Trinka Davis Veteran Village

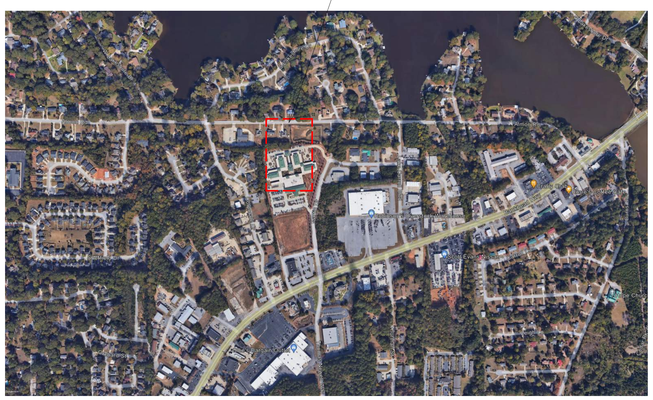
180 MARTIN DR, CARROLLTON, GA 30117

BID DOCUMENTS

Construct TDVV CLC 12 Beds
508-349

AREA MAP

PROJECT LOCATION



VICINITY MAP

PROJECT LOCATION

CAMPUS MAP

*RENDERING MAY NOT FULLY REFLECT FINAL DESIGN.

SHEET INDEX

SHEET NUMBER	SHEET NAME
GENERAL	
GI000	COVER SHEET
GI101	CODE ANALYSIS AND LIFE SAFETY PLAN
GI102	BID ALTERNATES - DEDUCT C
GI103	BID ALTERNATES - DEDUCT D
CIVIL	
CI001	GENERAL NOTES
CI002	PHASING PLAN
VF101	TOPOGRAPHIC SURVEY
VF102	TOPOGRAPHIC SURVEY
VF103	TOPOGRAPHIC SURVEY
CD101	DEMOLITION PLAN
CS101	SITE PLAN
CS102	SITE PLAN - DEDUCT C
CS501	SITE DETAILS
CS502	SITE DETAILS
CU101	UTILITY PLAN
CU201	STORMWATER PROFILES
CU202	STORMWATER PROFILES
CU203	SANITARY PROFILE
CU501	UTILITY DETAILS
CU502	UTILITY DETAILS
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LP101	LANDSCAPING PLAN
CJ101	EROSION CONTROL PLAN INITIAL
CJ102	EROSION CONTROL PLAN FINAL
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CJ502	EROSION CONTROL DETAILS
CJ503	EROSION CONTROL DETAILS
CJ504	EROSION CONTROL DETAILS
CJ505	EROSION CONTROL DETAILS
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SI004	BID DEDUCTS
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SB102	SLAB-ON GRADE PLAN
SB501	FOUNDATION SECTIONS AND DETAILS
SB502	FOUNDATION SECTIONS AND DETAILS
SB503	FOUNDATIONS SECTIONS AND DETAILS
SF101	FRAMING PLAN
SF102	CLERESTORY FRAMING PLANS
SF103	ROOF TRUSS PLANS
SF201	BUILDING ELEVATIONS
SF202	BUILDING ELEVATIONS
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SF501	TYPICAL FRAMING SECTIONS AND DETAILS
SF502	FRAMING SECTIONS AND DETAILS
SF901	ISOMETRIC VIEWS
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AE002	WALL TYPES
AE003	CONSTRUCTION TYPES
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AE101	FIRST FLOOR DIMENSION PLAN
AE102	FIRST FLOOR ARCHITECTURAL PLAN
AE103	CLERESTORY AND LOWER ROOF PLAN
AE104	UPPER ROOF PLAN
AE111	FIRST FLOOR REFLECTED CEILING PLAN
AE112	UPPER REFLECTED CEILING PLANS AND DETAILS
AE201	BUILDING ELEVATIONS
AE202	BUILDING ELEVATIONS
AE301	BUILDING SECTIONS
AE311	WALL SECTIONS
AE312	WALL SECTIONS
AE313	WALL SECTIONS
AE314	WALL SECTIONS
AE315	WALL SECTIONS
AE321	WALL SECTION DETAILS
AE322	WALL SECTION DETAILS
AE401	ENLARGED PATIO PLANS AND ELEVATIONS
AE402	ENLARGED ARCHITECTURAL PLANS
AE501	ENLARGED PLAN DETAILS
AE502	ENLARGED PLAN DETAILS
AE601	DOOR SCHEDULE
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AI101	FIRST FLOOR WALL FINISH PLAN
AI102	FIRST FLOOR FINISH PLAN
AI103	FINISH SCHEDULE
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AI202	ENLARGED PLAN & INTERIOR ELEVATIONS
AI203	ENLARGED PLANS & INTERIOR ELEVATIONS
AI204	ENLARGED PLANS & INTERIOR ELEVATIONS
AI205	ENLARGED PLANS & INTERIOR ELEVATIONS
AI206	ENLARGED PLANS & INTERIOR ELEVATIONS
AI207	ENLARGED PLANS & INTERIOR ELEVATIONS
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AI601	INTERIOR RENDERINGS
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QH101	EQUIPMENT FLOOR PLAN AND SCHEDULE

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K103	FOODSERVICE SPECIAL CONDITIONS LAYOUT
K200	FOODSERVICE EQUIPMENT SCHEDULE
K300	FOODSERVICE PLUMBING LAYOUT
K301	FOODSERVICE ELECTRICAL LAYOUT
K500	EXHAUST HOOD SYSTEM DETAILS
K600	FOODSERVICE DETAILS, ELEVATIONS & SECTIONS
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FA002	FIRE ALARM - DETAILS
FA003	FIRE ALARM - INPUT/OUTPUT MATRIX & TEMPORARY REQUIREMENTS
FA100	FIRE ALARM - BASEMENT FLOOR PLAN
FA110	FIRE ALARM - FIRST FLOOR PLAN
FA111	FIRE ALARM - FIRST FLOOR - FIRE ALARM SYSTEMS ROUTING PLAN
FX001	FIRE SUPPRESSION - SYMBOLS, NOTES AND DRAWING INDEX
FX002	FIRE SUPPRESSION - DETAILS
FX003	FIRE SUPPRESSION - DETAILS
FX004	FIRE SUPPRESSION - FLOW TEST AND IMPAIRMENT AND TEMPORARY REQUIREMENTS
FX005	FIRE SUPPRESSION - UL DETAILS
FX006	FIRE SUPPRESSION - WET CHEMICAL FIRE SUPPRESSION REQUIREMENTS
FX100	FIRE SUPPRESSION - BASEMENT FLOOR - DESIGN CRITERIA
FX101	FIRE SUPPRESSION - BASEMENT FLOOR - PIPING PLAN
FX110	FIRE SUPPRESSION - FIRST FLOOR - DESIGN CRITERIA
FX111	FIRE SUPPRESSION - FIRST FLOOR - PIPING PLAN
FX300	FIRE SUPPRESSION - SECTIONS
PLUMBING	
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P002	PLUMBING - DETAILS
PP100	PLUMBING - BASEMENT FLOOR PLANS
PP110	PLUMBING - FIRST FLOOR - SANITARY PLAN
PP111	PLUMBING - FIRST FLOOR - DOMESTIC PLAN
PP112	PLUMBING - FIRST FLOOR - STORM DRAINAGE PLAN
PP120	PLUMBING - LOWER ROOF PLAN
PP130	PLUMBING - FIRST FLOOR - SANITARY RISER
PP131	PLUMBING - FIRST FLOOR - DOMESTIC RISER
PP132	PLUMBING - FIRST FLOOR - STORM DRAINAGE RISER
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M003	MECHANICAL - SCHEDULES
M004	MECHANICAL - AHU SCHEDULES
M005	MECHANICAL - CONTROLS SCHEMATICS AND SEQUENCE OF OPERATIONS
MH100	MECHANICAL - BASEMENT FLOOR - DUCTWORK PLAN
MH110	MECHANICAL - FIRST FLOOR - DUCTWORK PLAN
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MP100	MECHANICAL - BASEMENT FLOOR - PIPING PLAN
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E002	ELECTRICAL - SPECIAL SYSTEMS SYMBOLS AND NOTES
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E007	ELECTRICAL - POWER RISER DIAGRAM AND SCHEDULES
E008	ELECTRICAL - PANELBOARD SCHEDULES
E009	ELECTRICAL - PANELBOARD SCHEDULES
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EL100	ELECTRICAL - BASEMENT FLOOR - LIGHTING PLAN
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EP100	ELECTRICAL - BASEMENT FLOOR - POWER PLAN
EP110	ELECTRICAL - FIRST FLOOR - POWER PLAN
EP111	ELECTRICAL - FIRST FLOOR - MECHANICAL EQUIPMENT CONNECTIONS
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ES120	ELECTRICAL - ROOF PLAN - LIGHTNING PROTECTION
ES120A	ELECTRICAL - ALTERNATE ROOF PLANS - LIGHTNING PROTECTION
ES121	ELECTRICAL - BUILDING ELEVATIONS - LIGHTNING PROTECTION
ES121A	ELECTRICAL - ALTERNATE BUILDING ELEVATIONS - LIGHTNING PROTECTION
EY100	ELECTRICAL - FIRST FLOOR - SPECIAL SYSTEMS PLAN
EY110	ELECTRICAL - FIRST FLOOR - SPECIAL SYSTES ROUTING PLAN

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PROGRAM CONTRACTING ACTIVITY CENTRAL

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Energy Manager, COR II

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STATEMENT OF BID ITEMS

BID ITEM #1: BASE BID.
BID ITEM #2: ALL WORK AS DESCRIBED FOR BID ITEM #1 ABOVE MINUS THAT PORTION OF WORK SHOWN AS ALTERNATE A.
BID ITEM #3: ALL WORK AS DESCRIBED FOR BID ITEM #2 ABOVE MINUS THAT PORTION OF WORK SHOWN AS ALTERNATE B.
BID ITEM #4: ALL WORK AS DESCRIBED FOR BID ITEM #3 ABOVE MINUS THAT PORTION OF WORK SHOWN AS ALTERNATE C.
BID ITEM #5: ALL WORK AS DESCRIBED FOR BID ITEM #4 ABOVE MINUS THAT PORTION OF WORK SHOWN AS ALTERNATE D.

A. **ALTERNATE A - ELIMINATE SECONDARY ELECTRICAL FEED**
Omit new utility transformer and CT metering enclosure. Provide new utility cabinet. ATS-SE shall be placed in manual mode and located into position for the only available source. See electrical drawings.

B. **ALTERNATE B - ELIMINATE LANDSCAPING**
Eliminate the tree and shrub planting areas along the turnaround. Eliminate the tree, shrub, and flower bed areas in between the new building and existing building on both the east and south side of the new building. The new trees and shrubs to be installed within the 10' and 20' buffer zone along the property limits to the west and north of the building are to remain; they are not to be eliminated if this alternate is accepted.

C. **ALTERNATE C - ELIMINATE CLERESTORY AREAS**
Eliminate the clerestory areas above the back vestibule and bathing room. Structure shall continue over these areas to match adjacent single story wall section including roof overhang. New luminaries and smoke detectors to be installed at 9'-0" AFF. 2X2 supply diffusers, return grilles and exhaust grilles to be provided in alternate finished ceilings. Provide semi-recessed pendant sprinkler heads in alternate finished ceilings, with approximately 4 sprinkler heads in the Bathing Room and Vestibule. Lightning protection design and roof drain layout to be revised.

D. **ALTERNATE D - ELIMINATE CLERESTORY AREAS**
Eliminate the clerestory area above the living room. Structure shall continue over these areas to match adjacent single story wall section including roof overhang. New luminaries and smoke detectors to be installed at 9'-0" AFF. 2X2 supply diffusers, return grilles and exhaust grilles to be provided in alternate finished ceilings. Provide semi-recessed pendant sprinkler heads in alternate finished ceilings, with approximately 8 sprinkler heads in the Living Room. Lightning protection design and roof drain layout to be revised.

CONTRACT SPECIALIST DATE | LEAD USER SIGNATURE DATE

CONTRACT OFFICER REPRESENTATIVE DATE | INTERIOR DESIGNER DATE

CHIEF OF ENGINEERING DATE | DEPARTMENT HEAD DATE

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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STAMP

STATE OF GEORGIA · LUKE J. LEISING · REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: COVER SHEET	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 · Checked: JF · Drawn: TS	Drawing Number: GI000

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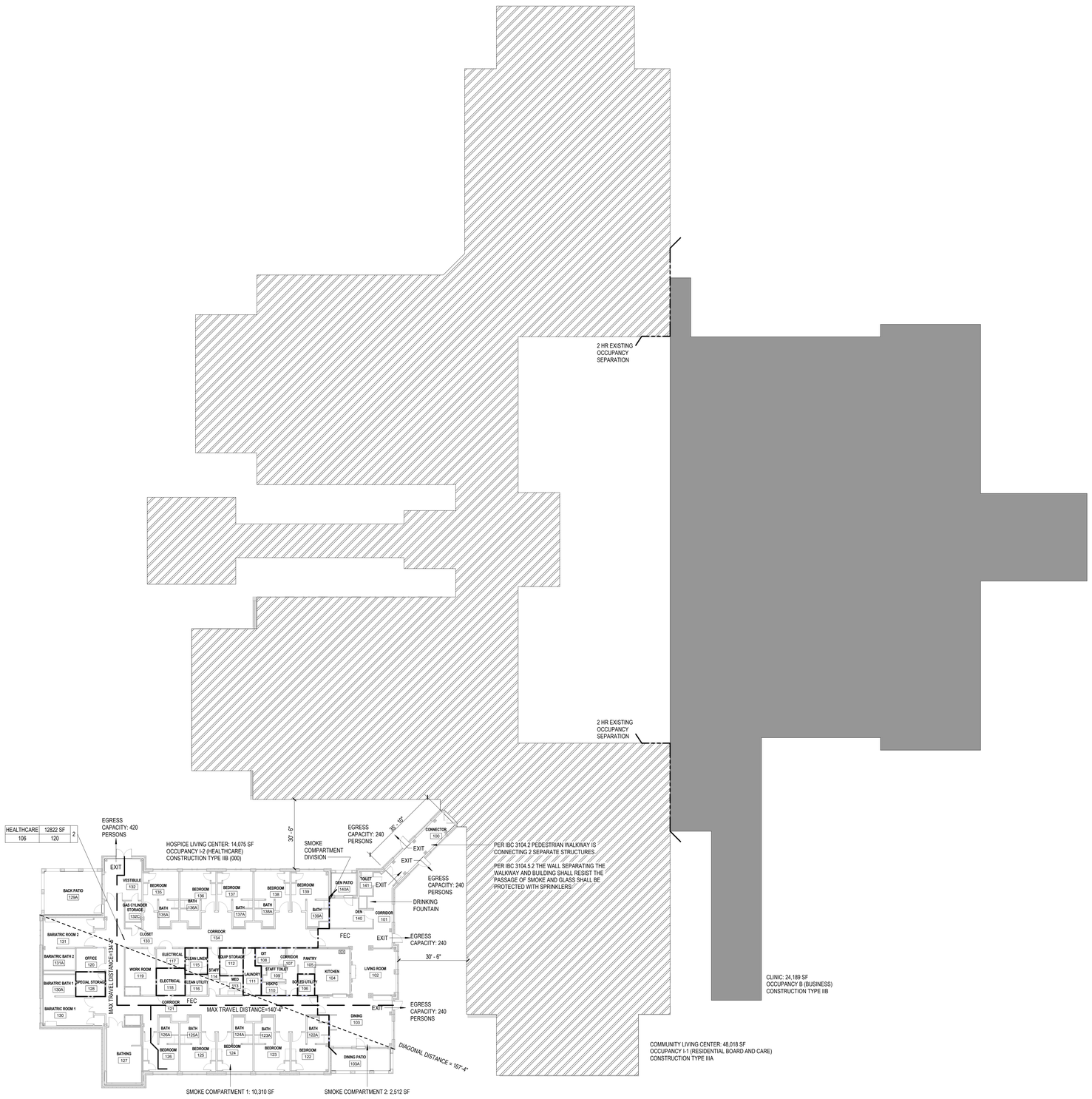
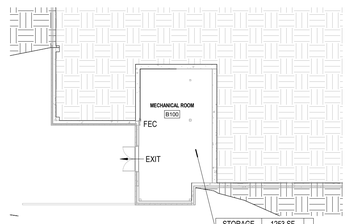


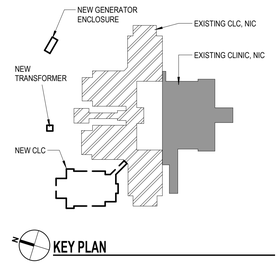
1 GI101 SCALE: 1" = 20'-0"

FIRST FLOOR LIFE SAFETY PLAN



1 GI101 SCALE: 1" = 20'-0"

BASEMENT LIFE SAFETY PLAN



KEY PLAN

BUILDING CODE PROJECT ANALYSIS

BUILDING ADDRESS 180 MARTIN DR, CARROLLTON, GA 30117

BUILDING INFORMATION	IBC	NFPA	NFPA	IBC
BUILDING USE AND OCCUPANCY CLASSIFICATION	EXISTING GROUPS B, I-1	EXISTING BUSINESS	CH. 18	CH. 3
	NEW GROUP I-2	EXISTING RESIDENTIAL BOARD AND CARE		
		NEW HEALTHCARE		
CONSTRUCTION TYPE	EXISTING IIB, IIIA; NEW IIB	NEW TYPE II (000)	18.1.6	CH. 6
BUILDING FULLY FIRE SPRINKLERD	YES			

	ALLOWABLE	ACTUAL - NEW		
ALLOWABLE BUILDING HEIGHT ABOVE GRADE	55	29'-5"	18.1.6.1	504.3
ALLOWABLE BUILDING STORIES	1	1	18.1.6.1	504.4
ALLOWABLE BUILDING AREA	44,000	12,822 SF FIRST FLOOR	18.1.6.1	506.2
		1,253 SF BASEMENT		

OCCUPANCY SEPARATION	YES	2HR FIRE RATING	6.1.14.4.1	508.4
SMOKE COMPARTMENT	YES	1HR FIRE RATING	18.3.7	

CONSTRUCTION RATING OF BUILDING ELEMENTS	IBC	NFPA	IBC
FIRE RESISTANT RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS):			601
STRUCTURAL FRAME	0HR FIRE RATING		
BEARING WALLS - EXTERIOR	0HR FIRE RATING		
BEARING WALLS - INTERIOR	0HR FIRE RATING		
NON BEARING WALLS - EXTERIOR	0HR FIRE RATING		
NON BEARING WALLS - INTERIOR	0HR FIRE RATING		
FLOOR CONSTRUCTION	0HR FIRE RATING		
ROOF CONSTRUCTION	0HR FIRE RATING		
SHAFT ENCLOSURE RATING	1HR FIRE RATING	8.6	
BUILDING SEPARATION	2HR FIRE RATING		

EXTERIOR WALL (SEPARATION DISTANCE)			602
NORTH	DISTANCE >30'	0HR FIRE RATING	
SOUTH	DISTANCE>30'	0HR FIRE RATING	
EAST	DISTANCE >30'	0HR FIRE RATING	
WEST	DISTANCE >30'	0HR FIRE RATING	

MEANS OF EGRESS			NFPA	IBC
MEANS OF EGRESS - OCCUPANT LOAD			Table 7.3.1.2	NA
FIRST FLOOR TOTAL: 120 GROSS SF PER OCCUPANT	106 OCCUPANTS	SLEEPING DEPARTMENT		
BASEMENT: 300 GROSS SF PER OCCUPANT	5 OCCUPANTS	ACCESSORY STORAGE SPACE		

	1ST FLOOR	BASEMENT		
EGRESS WIDTH			7.3.3.1	NA
EXIT DOOR WIDTH	106 X 0.2"=21.2"	5 X 0.2"=1.0"		
MINIMUM NUMBER OF EXITS	1ST FLOOR	BASEMENT	7.4.1.1/42.2.4.1	NA
EXITS PER FLOOR	2	1		
COMMON PATH OF TRAVEL	100'		18.2.5.2	NA
EXIT ACCESS TRAVEL DISTANCE	200'		18.2.5.7.2.4	NA
CORRIDORS				
CORRIDOR RATING	0 HR FIRE RATING		18.3.6.2.2	NA
MINIMUM CORRIDOR WIDTH	96"		18.2.3.4	NA
MAX DEAD END CORRIDOR	30'		18.2.5.3	NA

STRUCTURE			
RISK CATEGORY	III	1604.5	
BASIC DESIGN WIND SPEED, V	115 MPH	1609.3	
ALLOWABLE STRESS DESIGN WIND SPEED, Vasd	89.07 MPH	1609.3.1	
WINDBORNE DEBRIS REGION	NO	202	
SEISMIC DESIGN CATEGORY	C		

MINIMUM NUMBER REQUIRED PLUMBING FIXTURES

	PROVIDED	REQUIRED (RESIDENTS)	REQUIRED (VISITORS)	REQUIRED (EMPLOYEES)	
WATER CLOSETS	1 PER ROOM + 2	1 PER ROOM	1 PER 75	1 PER 25	2902.1
LAVATORIES	1 PER ROOM + 2	1 PER ROOM	1 PER 100	1 PER 35	
BATHTUB OR SHOWER	1 PER ROOM +1	1 PER 15	NA	NA	
DRINKING FOUNTAINS	2 (HI/LO)	1PER 100	1PER 500	1PER 100	
OTHER					

GOVERNING BUILDING CODES

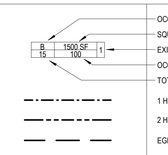
NFPA 101 LIFE SAFETY CODE	2024 ED.
NFPA NATIONAL FIRE CODES WITH THE EXCEPTION OF NFPA 5000 AND NFPA 900, INCLUDING BUT NOT LIMITED TO:	
NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS	2022 ED.
NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS	2022 ED.
NFPA 70, NEC NATIONAL ELECTRIC CODE	2023 ED.
NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE	2022 ED.
NFPA 80, STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2022 ED.
NFPA 99, HEALTH CARE FACILITIES CODE	2024 ED.
NFPA 220, STANDARD ON TYPES OF BUILDING CONSTRUCTION	2024 ED.
NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS	2022 ED.
ICC INTERNATIONAL CODE COUNCIL CODES, INCLUDING BUT NOT LIMITED TO:	
INTERNATIONAL BUILDING CODE	2024 ED.
INTERNATIONAL PLUMBING CODE	2024 ED.
INTERNATIONAL MECHANICAL CODE	2024 ED.
INTERNATIONAL ENERGY AND CONSERVATION CODE	2024 ED.
ASHRAE STANDARDS, AS REFERENCED WITHIN OTHER CODES INCLUDING, BUT NOT LIMITED TO:	
90.1 ENERGY STANDARDS FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS	2016 ED.
170 VENTILATION OF HEALTHCARE FACILITIES	2017 ED.
188 LEGIONELLOSIS: RISK MANAGEMENT FOR BUILDING WATER SYSTEMS	2018 ED.
ACCESSIBILITY CODES	
ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS (ABAAS) INCLUDING VA SUPPLEMENT, BARRIER FREE DESIGN STANDARD PG 18-13	2017 ED. REV. 2023
FGI, THE FACILITY GUIDELINES INSTITUTE	
GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS	2018 ED.
GUIDELINES FOR DESIGN AND CONSTRUCTION OF OUTPATIENT FACILITIES	2018 ED.
BEHAVIORAL HEALTH DESIGN GUIDE	2019 ED.
SYSTEMS RELATING TO MAINTENANCE OF FACILITIES	
OSHA, OCCUPATIONAL, SAFETY AND HEALTH ADMINISTRATION STANDARDS	

CODES AND GUIDELINES REFERENCED WITHIN NFPA AND ICC CODES ARE ALSO TO BE FOLLOWED AND APPLIED TO ALL DESIGN AND CONSTRUCTION. REFER TO VA MANUAL PG-18-3 AND SPECIFICATIONS FOR ADDITIONAL CODES, STANDARDS, GUIDELINES, AND REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING WORK COMPLIANT WITH OSHA, OCCUPATIONAL, SAFETY AND HEALTH ADMINISTRATION STANDARDS.

VA DESIGN MANUALS PG-18-10 AND VA DESIGN GUIDES PG-18-12

ARCHITECTURAL	Aug-14
ASBESTOS ABATEMENT	Jul-11
AUTOMATED TRANSPORT SYSTEMS	May-24
CPM SCHEDULE AND RISK MANAGEMENT, VOL. 1 AND 2	Dec-12
ELECTRICAL	Dec-19
ESTIMATING	Mar-11
FIRE PROTECTION	Nov-23
HVAC	Nov.-17 Rev. June-23
INTERIOR DESIGN	Nov-20
LIGHTING DESIGN	Jan-22
PHYSICAL SECURITY	Oct-20 Rev. June-23
PLUMBING	Jan-23
SIGNAGE	May-23
SITE PARKING	Apr-23 Rev. Nov.-16
SITE DESIGN	Feb.-13 Rev. Nov.-16
STEAM BOILERS, VOL 1	Oct.-22
WATER BOILERS, VOL 2	Dec.-23
OUTSIDE STEAM AND HEATING HOT WATER DISTRIBUTION SYSTEMS, VOL 3	Sept.-22
STRUCTURAL	Oct.-22 Rev. July-23

CODE ANALYSIS LEGEND



Revisions:	Date:

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CHARLOTTE, NC 28212

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Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number:
		Issue Date: 12/16/2024 · Checked: JF · Drawn: TS	Drawing Number: GI101

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STATEMENT OF BID ITEMS

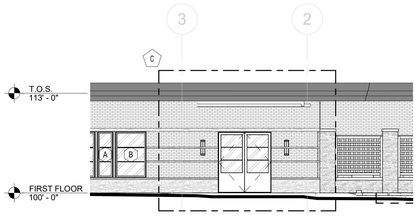
BID ITEM #1: BASE BID.
BID ITEM #2: ALL WORK AS DESCRIBED FOR BID ITEM #1 ABOVE MINUS THAT PORTION OF WORK SHOWN AS ALTERNATE A.
BID ITEM #3: ALL WORK AS DESCRIBED FOR BID ITEM #2 ABOVE MINUS THAT PORTION OF WORK SHOWN AS ALTERNATE B.
BID ITEM #4: ALL WORK AS DESCRIBED FOR BID ITEM #3 ABOVE MINUS THAT PORTION OF WORK SHOWN AS ALTERNATE C.
BID ITEM #5: ALL WORK AS DESCRIBED FOR BID ITEM #4 ABOVE MINUS THAT PORTION OF WORK SHOWN AS ALTERNATE D.

A. **ALTERNATE A - ELIMINATE SECONDARY ELECTRICAL FEED**
Omit new utility transformer and CT metering enclosure. Provide new utility cabinet. ATS-SE shall be placed in manual mode and located into position for the only available source. See electrical drawings.

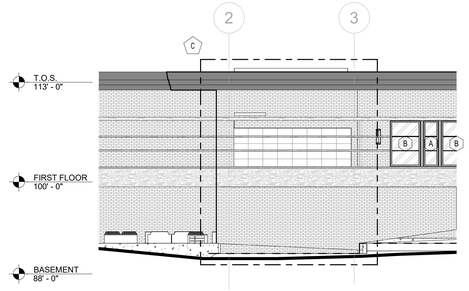
B. **ALTERNATE B - ELIMINATE LANDSCAPING**
Eliminate the tree and shrub planting areas along the turnaround. Eliminate the tree, shrub, and flower bed areas in between the new building and existing building on both the east and south side of the new building. The new trees and shrubs to be installed within the 10' and 20' buffer zone along the property limits to the west and north of the building are to remain; they are not to be eliminated if this alternate is accepted.

C. **ALTERNATE C - ELIMINATE CLERESTORY AREAS**
Eliminate the clerestory areas above the back vestibule and bathing room. Structure shall continue over these areas to match adjacent single story wall section including roof overhang. New luminaries and smoke detectors to be installed at 9'-0" AFF. 2X2 supply diffusers, return grilles and exhaust grilles to be provided in alternate finished ceilings. Provide semi-recessed pendant sprinkler heads in alternate finished ceilings, with approximately 4 sprinkler heads in the Bathing Room and Vestibule. Lightning protection design and roof drain layout to be revised.

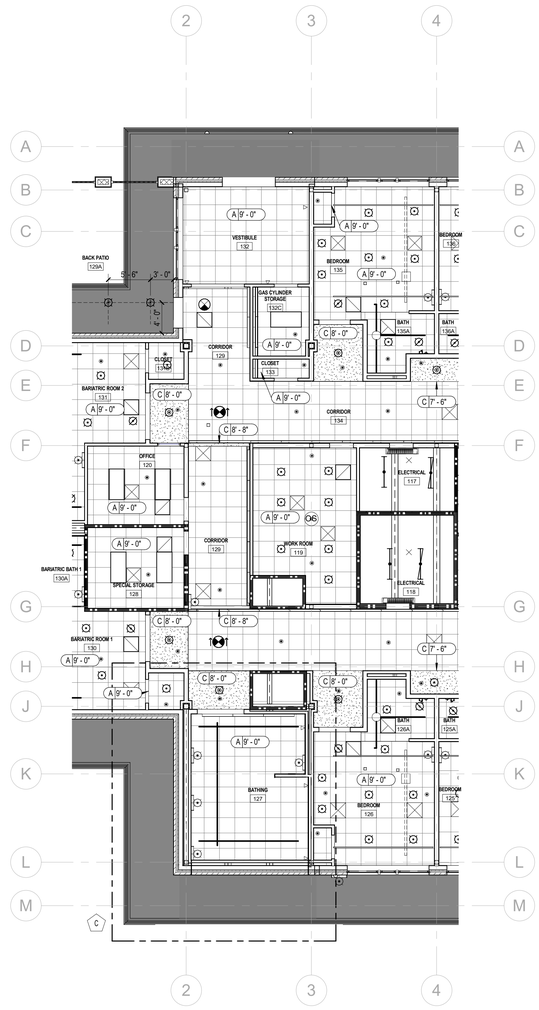
D. **ALTERNATE D - ELIMINATE CLERESTORY AREAS**
Eliminate the clerestory area above the living room. Structure shall continue over these areas to match adjacent single story wall section including roof overhang. New luminaries and smoke detectors to be installed at 9'-0" AFF. 2X2 supply diffusers, return grilles and exhaust grilles to be provided in alternate finished ceilings. Provide semi-recessed pendant sprinkler heads in alternate finished ceilings, with approximately 8 sprinkler heads in the Living Room. Lightning protection design and roof drain layout to be revised.



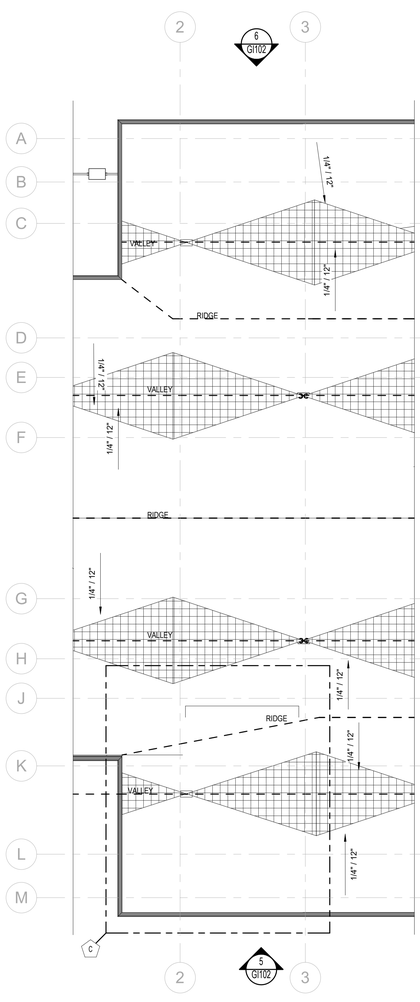
6 GI102 **DEDUCT C - PARTIAL EAST ELEVATION**
SCALE: 1/8" = 1'-0"



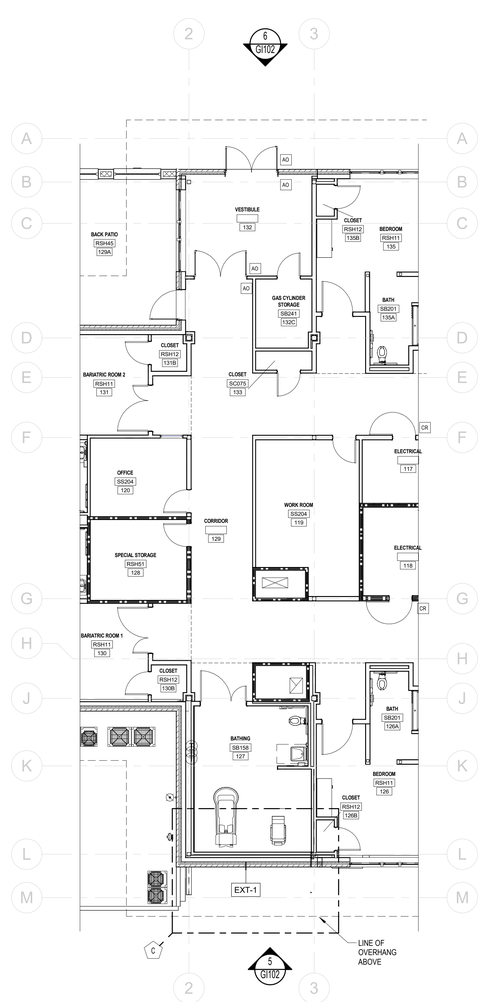
5 GI102 **DEDUCT C - PARTIAL WEST ELEVATION**
SCALE: 1/8" = 1'-0"



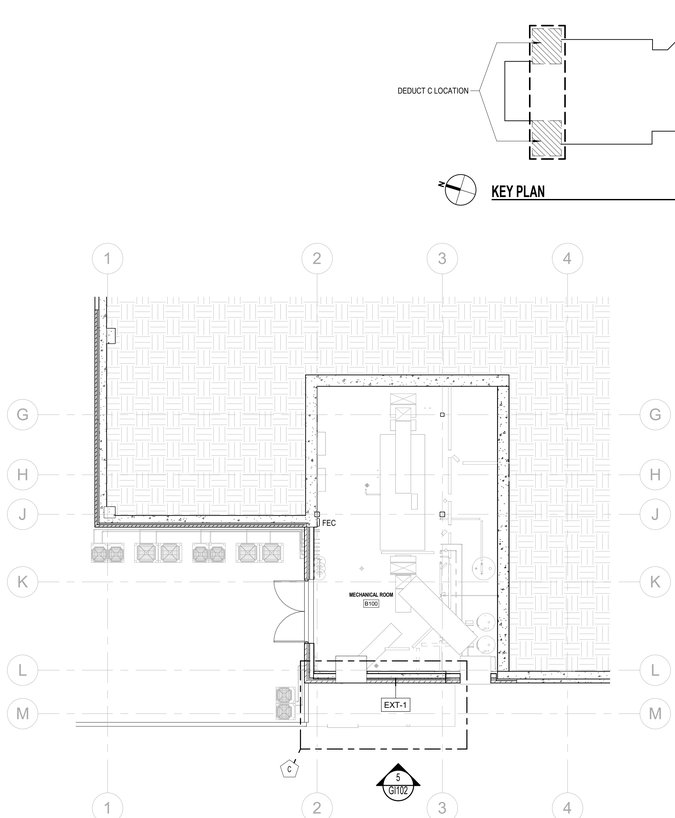
1 GI102 **DEDUCT C - FIRST FLOOR PARTIAL REFLECTED CEILING PLAN**
SCALE: 1/8" = 1'-0"



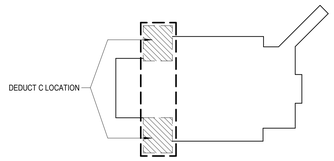
3 GI102 **DEDUCT C - PARTIAL ROOF PLAN**
SCALE: 1/8" = 1'-0"



2 GI102 **DEDUCT C - PARTIAL FIRST FLOOR ARCHITECTURAL PLAN**
SCALE: 1/8" = 1'-0"



1 GI102 **DEDUCT C - PARTIAL BASEMENT ARCHITECTURAL FLOOR PLAN**
SCALE: 1/8" = 1'-0"



KEY PLAN

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON / CHARLOTTE ENGINEERS

CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
GUIDON DESIGN, INC.
1221 N. PENNSYLVANIA STREET
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CHARLOTTE, NC 28212

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STATE OF GEORGIA · LUKE J. LEISING · REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BID ALTERNATES - DEDUCT C	Phase: BID DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: Construct TDVV CLC 12 Beds			Project Number: 508-349
			Building Number:
Location: 180 MARTIN DR, CARROLLTON, GA 30117			Drawing Number: GI102
Issue Date: 12/16/2024	Checked: JF	Drawn: TS	

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VA FORM 08 - 6231

STATEMENT OF BID ITEMS

BID ITEM #1: BASE BID.
BID ITEM #2: ALL WORK AS DESCRIBED FOR BID ITEM #1 ABOVE MINUS THAT PORTION OF WORK SHOWN AS ALTERNATE A.
BID ITEM #3: ALL WORK AS DESCRIBED FOR BID ITEM #2 ABOVE MINUS THAT PORTION OF WORK SHOWN AS ALTERNATE B.
BID ITEM #4: ALL WORK AS DESCRIBED FOR BID ITEM #3 ABOVE MINUS THAT PORTION OF WORK SHOWN AS ALTERNATE C.
BID ITEM #5: ALL WORK AS DESCRIBED FOR BID ITEM #4 ABOVE MINUS THAT PORTION OF WORK SHOWN AS ALTERNATE D.

A. ALTERNATE A - ELIMINATE SECONDARY ELECTRICAL FEED
Omit new utility transformer and CT metering enclosure. Provide new utility cabinet. ATS-SE shall be placed in manual mode and located into position for the only available source. See electrical drawings.

B. ALTERNATE B - ELIMINATE LANDSCAPING
Eliminate the tree and shrub planting areas along the turnaround. Eliminate the tree, shrub, and flower bed areas in between the new building and existing building on both the east and south side of the new building. The new trees and shrubs to be installed within the 10' and 20' buffer zone along the property limits to the west and north of the building are to remain; they are not to be eliminated if this alternate is accepted.

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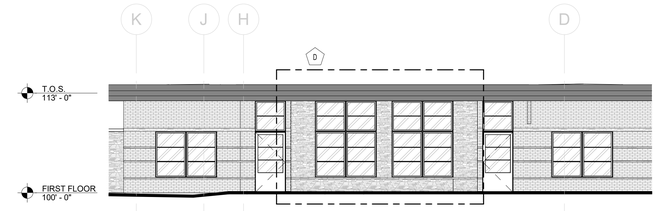
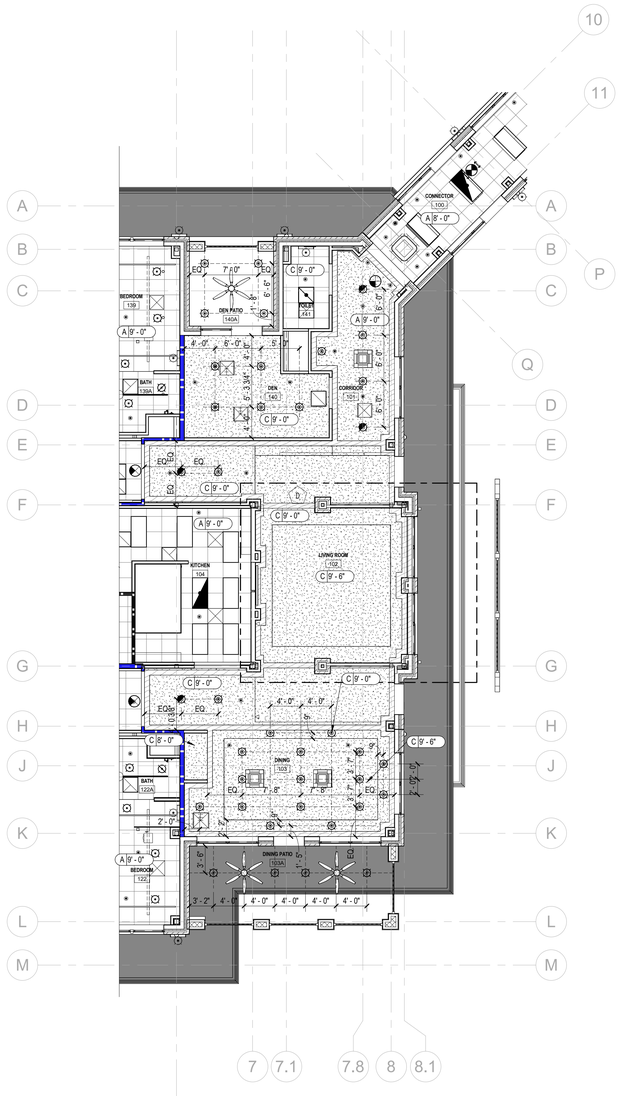
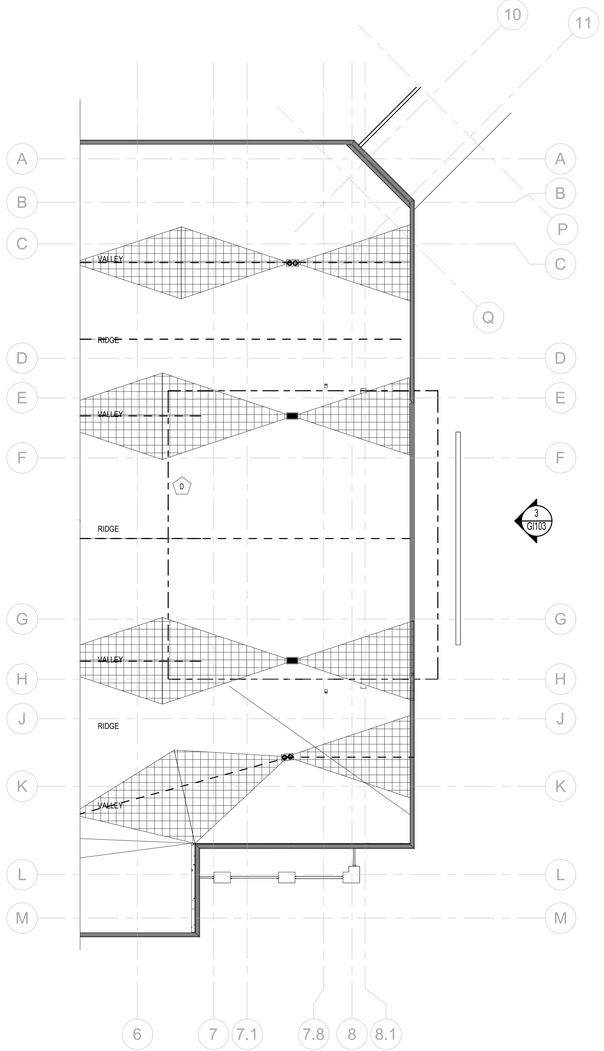


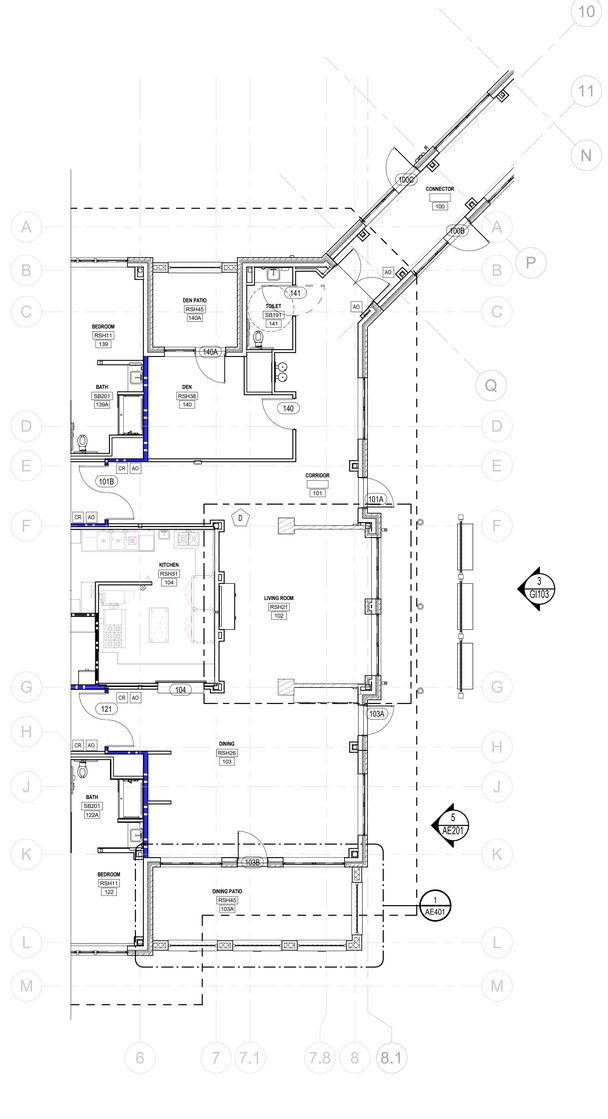
3 / GI103 — **DEDUCT D - PARTIAL SOUTH ELEVATION**
SCALE: 1/8" = 1'-0"



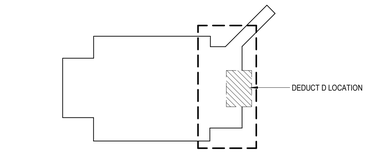
4 / GI103 — **DEDUCT D - FIRST FLOOR PARTIAL REFLECTED CEILING PLAN**
SCALE: 1/8" = 1'-0"



1 / GI103 — **DEDUCT D - PARTIAL ROOF PLAN**
SCALE: 1/8" = 1'-0"



2 / GI103 — **DEDUCT D - PARTIAL FIRST FLOOR ARCHITECTURAL PLAN**
SCALE: 1/8" = 1'-0"



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STATE OF GEORGIA — LUKE J. LEISING — REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BID ALTERNATES - DEDUCT D	**Phase** BID DOCUMENTS	**Project Title** Construct TDVV CLC 12 Beds	**Project Number** 508-349
Approved:	FULLY SPRINKLERED	**Location** 180 MARTIN DR, CARROLLTON, GA 30117	**Building Number**
		Issue Date 12/16/2024 · **Checked** JF · **Drawn** TS	**Drawing Number** GI103

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CIVIL SITE NOTES

GENERAL

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
3. THE DISTURBED AREA ON THE SITE EXCEEDS ONE ACRE. THE CONTRACTOR SHALL SUBMIT A NOTICE OF INTENT (NOI) FOR COVERAGE UNDER GEORGIA ENVIRONMENTAL PROTECTION AGENCY GENERAL (NPDES) PERMIT PRIOR TO CONSTRUCTION.
4. FOR VIEWING CLARITY OF THESE PLANS, THE PIPES OR STRUCTURES MAY NOT BE DRAWN TO SCALE.
5. THE UTILITIES INDICATED ON THESE PLANS MAY NOT BE A COMPLETE INVENTORY OF ALL UTILITIES CURRENTLY ON OR NEAR THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PUBLIC AND/OR PRIVATE UTILITY LOCATING SERVICES PRIOR TO STARTING CONSTRUCTION.
6. THE SIZE AND LOCATIONS OF THE UTILITIES INDICATED ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR IS TO DETERMINE AND FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO STARTING CONSTRUCTION ACTIVITIES.
7. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD AND COR PRIOR TO CONSTRUCTION SO THAT REDESIGN OR CLARIFICATION MAY OCCUR.

DEMOLITION

1. ALL DEMOLISHED MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED, AND SHALL BE LEGALLY DISPOSED OF OFFSITE.
2. CONDUCT DEMOLITION AND CONSTRUCTION ACTIVITIES IN SUCH A MANNER TO PROVIDE MINIMUM TRAFFIC DISRUPTIONS. CONTRACTOR TO INSTALL TRAFFIC CONTROL DEVICES PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, AS NECESSARY.
3. ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.
4. CONTRACTOR SHALL COORDINATE ALL WORK ASSOCIATED WITH THE REMOVAL, RELOCATION, AND DEMOLITION OF EXISTING UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
5. EXISTING UNDERGROUND ELECTRIC AND TELEPHONE CABLES THAT ARE SHOWN TO BE ABANDONED IN PLACE MAY BE CUT AS NECESSARY TO FACILITATE CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL ENSURE THAT LINES ARE NOT ACTIVE PRIOR TO CUTTING.
6. CONTRACTOR TO MAINTAIN PROPER DRAINAGE IN DEMOLITION AREAS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE TO EXISTING BUILDINGS AND/OR SITE ENTITIES THAT ARE TO REMAIN.
8. CONCRETE TO BE SAWCUT SHALL BE SAWCUT TO THE NEAREST CONCRETE JOINT BEYOND THE LIMITS ILLUSTRATED.

SITE PLAN

1. ALL DIMENSIONS ARE TO THE BACK OF CURB. WHEN CURBS ARE NOT PRESENT, DIMENSION ARE TO THE EDGE OF PAVEMENT.
2. ALL STANDARD PARKING STALLS SHALL BE 9' X 18' UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS ON THE SITE PRIOR TO CONSTRUCTION AND IDENTIFY DISCREPANCIES TO THE ENGINEER OF RECORD AND COR.
4. SEE SHEETS CS501-CS502 FOR PROPOSED SITE IMPROVEMENT DETAILS REFERENCED.
5. WHERE WORK IS DONE IN EXISTING AREAS, THE EXISTING FINISHED CONDITIONS SHALL BE REPAIRED OR REPLACED IF DAMAGED. IF REPAIRS ARE REQUIRED NEW FINISHED CONDITIONS SHALL MATCH EXISTING CONDITIONS, UNLESS OTHERWISE NOTED.

GRADING

1. CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE IN IMPROVED AREAS IS ACHIEVED. CONTRACTOR TO TEST AND CORRECT ANY "BIRD BATH" CONDITIONS.
2. ALL SLOPES SHALL BE 3:1 OR FLATTER, UNLESS OTHERWISE SHOWN.
3. ALL GRADES AT THE PROJECT BOUNDARY OR PROPERTY LINE SHALL MEET EXISTING GRADES.
4. BUILDING PAD AREAS AND PAVED AREAS DESIGNATED FOR FILL SHALL BE CONSTRUCTED OF SUITABLE FILL MATERIAL AND COMPACTED PER SPECIFICATIONS. ALL FILL AREAS ARE TO BE STRIPPED OF TOPSOIL PRIOR TO PLACEMENT OF FILL.
5. ANY EXCESS SOIL MATERIAL SHALL BE EXPORTED FROM THE SITE AFTER CONSTRUCTION IS COMPLETE.
6. CONTOURS ARE SHOWN AS A REFERENCE TO MEET JURISDICTIONAL REQUIREMENTS. CONTRACTOR SHOULD GRADE SITE PER THE PROPOSED SPOT GRADE ELEVATIONS.

UTILITIES

1. CONTRACTOR TO MAINTAIN ALL EXISTING UTILITIES TO STAY IN SERVICE DURING CONSTRUCTION.
2. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS PRIOR TO CONSTRUCTION TO VERIFY UTILITIES THAT MIGHT BE PRESENT ON SITE.
3. THE CONTRACTOR IS REQUIRED TO PROVIDE ADEQUATE SHEETING, SHORING, AND DEWATERING IN ALL TRENCHES AND EXCAVATIONS AS NECESSARY IN ACCORDANCE WITH O.S.H.A.; AND IS SOLELY RESPONSIBLE FOR THE SAFETY OF SHEETING, SHORING, AND DEWATERING.
4. WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURES OR WHERE CONSTRUCTION IS IN THE VICINITY OF EXISTING PIPING, THE LOCATION AND ELEVATION OF THE EXISTING PIPING AND STRUCTURES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. IF ANY DISCREPANCIES ARE FOUND, THEN THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
5. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A. SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES TO HIS EMPLOYEES, AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT.
6. REFER TO SHEETS CU501-CU502 FOR PROPOSED UTILITY DETAILS REFERENCED.
7. WATER MAINS THROUGHOUT THE PROJECT SHALL BE INSTALLED WITH AT LEAST 48 INCHES OF COVER TO PROVIDE PROTECTION FROM FREEZING.
8. HORIZONTAL SEPARATION BETWEEN WATER & SEWER SHALL BE 10 FEET.
9. VERTICAL SEPARATION BETWEEN WATER & SEWER SHALL BE 18 INCHES.
10. WATER MAIN ALIGNMENT SHOWN IS BASED ON STANDARD FITTINGS AVAILABLE FOR DUCTILE IRON PIPE. JOINT DEFLECTIONS SHALL NOT EXCEED 75 PERCENT OF MANUFACTURER'S RECOMMENDED DEFLECTION.
11. CONTRACTOR SHALL ADJUST WATER MAIN ALIGNMENT AND DEFLECT JOINTS AS NECESSARY TO ACCOMMODATE THE STANDARD BENDS SHOWN.
12. MEASUREMENTS AND SLOPES SHOWN ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
13. QUANTITIES PROVIDED ARE ESTIMATES AND SHALL BE CONFIRMED BY THE CONTRACTOR.

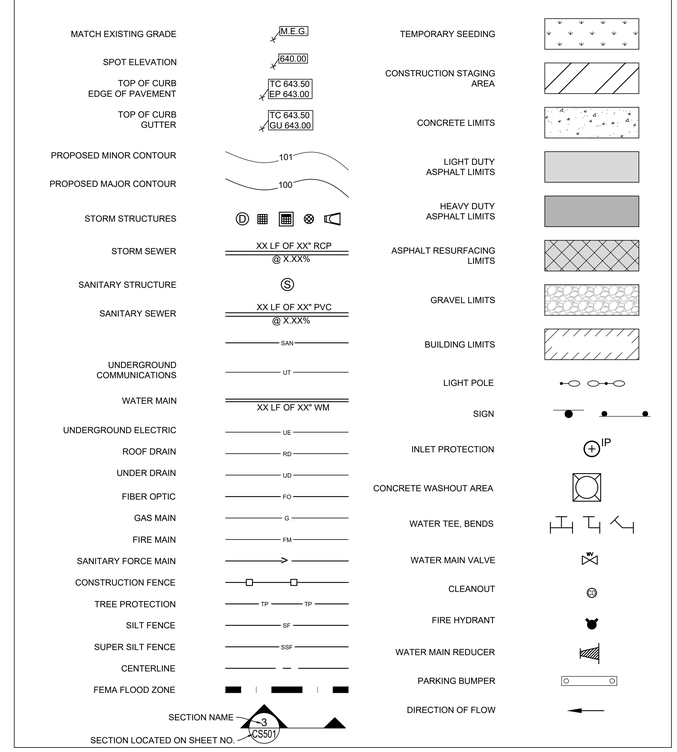
EROSION CONTROL

1. EROSION AND SEDIMENTATION CONTROL DEVICES TO BE INSTALLED PRIOR TO BEGINNING CONSTRUCTION.
2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN (7) DAYS AFTER WORK HAS CEASED, UNLESS ACTIVITY IN THAT PART OF THE SITE WILL RESUME WITHIN TWENTY-ONE (21) DAYS.
3. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION.
4. EROSION CONTROL AND SEDIMENTATION CONTROL DEVICES TO BE MAINTAINED SUCH THAT THEY FUNCTION AS INTENDED. AFTER COMPLETION OF THE PROJECT THE CONTRACTOR SHALL REMOVE ALL DEVICES WHERE A GOOD STAND OF GRASS HAS BEEN ESTABLISHED AND EROSION IS NO LONGER EVIDENT. REMOVAL OF THE REMAINING DEVICES SHALL OCCUR AS OTHER AREAS ARE ESTABLISHED.
5. EROSION CONTROL MEASURES SHALL BE INSPECTED EVERY SEVEN (7) DAYS OR AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS ONE-HALF (1/2) INCH. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED IMMEDIATELY.
6. ALL AREAS DISTURBED BY GRADING, EXCAVATION, AND GENERAL CONSTRUCTION SHALL BE SEEDED, MULCHED, AND RESTORED IN ACCORDANCE WITH THE SPECIFICATIONS.
7. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAYS. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
8. SEE SHEET CJ501 FOR PROPOSED EROSION AND SEDIMENT CONTROL DETAILS REFERENCED.

CIVIL SITE ABBREVIATIONS

AC	ACRE
ABC	AGGREGATE BASE COURSE
ADA	AMERICANS WITH DISABILITIES ACT
AGGR	AGGREGATE
ALT	ALTERNATE
APPROX	APPROXIMATE
ARV	AIR RELEASE VALVE
ASPH	ASPHALT
ASSY	ASSEMBLY
BC	BACK OF CURB
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BLT	BUILT
BM	BENCHMARK
BNRY	BOUNDARY
BO	BLOW OFF
C/C	CENTER TO CENTER
CB	CATCH BASIN
CCTV	CLOSED CIRCUIT TELEVISION
CFS	CUBIC FEET PER SECOND
CHKV	CHECK VALVE
CI	CAST IRON
CIR	CIRCULAR
CJ	CONSTRUCTION JOINT OR CONTROL JOINT
CL	CENTER LINE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CND	CONDUIT
CO	CLEANOUT
COMM	COMMUNICATION
CONC	CONCRETE
CONST	CONSTRUCT OR CONSTRUCTION
COR	CORNER
CTR	CENTER
CTRL	CONTROL
CTV	CABLE TELEVISION
CF	CUBIC FEET
CY	CUBIC YARD
CV	CONTROL VALVE
DA	DRAINAGE AREA
DAT	DATUM
DBL	DOUBLE
DDCV	DOUBLE DETECTOR CHECK VALVE
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DI	DROP INLET
DIA	DIAMETER
DIFF	DIFFERENCE OR DIFFERENTIAL
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DIST	DISTANCE
DOM	DOMESTIC
DOT	DEPARTMENT OF TRANSPORTATION
DS	DOWNSPOUT
DW	DOMESTIC WATER
EA	EACH
EC	EDGE OF CURB
EG	EXISTING GRADE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EP	EDGE OF PAVEMENT (PAVING)
EPA	ENVIRONMENTAL PROTECTION AGENCY
ESMT	EASEMENT
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	EDGE OF SHOULDER
ESMT	EASEMENT
EW	END WALL
EX	EXISTING
EXP	EXPANSION
F/F	FACE TO FACE
FES	FLARED END SECTION
FFE	FINISH FLOOR ELEVATION
FHA	FIRE HYDRANT ASSEMBLY
FNC	FENCE
FOC	FACE OF CURB
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPW	FIRE PROTECTION WATER SUPPLY
FSP	FIRE STANDPIPE
FT	FEET OR FOOT
G	NATURAL GAS OR GAS LINE
GA	GAGE
GAL	GALLON
GEN	GENERATOR
GPD	GALLONS PER DAY
GT	GREASE TRAP
GV	GATE VALVE
GUT	GUTTER
HAZ MAT	HAZARDOUS MATERIALS
HB	HOSE BIBB
HC	HANDICAP OR HANDICAPPED
HDPE	HIGH DENSITY POLYETHYLENE
HDWL	HEADWALL
HH	HAND HOLE
HORIZ	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
HV	HOSE VALVE
HWY	HIGHWAY
HYD	HYDRANT
IE	INVERT ELEVATION
INCL	INCLUDED
INFO	INFORMATION
INV	INVERT
IW	IRRIGATION WATER
LAT	LATITUDE
LF	LINEAR FEET (FOOT)
LOC	LOCATION
LONG	LONGITUDE OR LONGITUDINAL
LOS	LINE OF SIGHT
LP	LOW POINT OR LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAIL BOX
MEG	MEET EXISTING GRADE
MEMO	MEMORANDUM
MFG	MANUFACTURED OR MANUFACTURE
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MOD	MODIFY
MOT	MAINTENANCE OF TRAFFIC
MULT	MULTIPLE
MUNIC	MUNICIPAL
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NORM	NORMAL
NRCP	NON-REINFORCED CONCRETE PIPE
NTP	NOTICE TO PROCEED
NTS	NOT TO SCALE
OC	ON CENTER
PAR	PARALLEL
PAVT	PAVEMENT
PB	PULL BOX
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PCCP	CONCRETE PAVEMENT
PE	POLYETHYLENE (PLASTIC)
PERF	PERFORATED
PERIM	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PG	PROFILE GRADE
PH	PHASE
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PL	PROPERTY LINE
PP	POWER POLE OR POLYPROPYLENE
PR	PROPOSED
PREV	PREVIOUS
PRC	POINT OF REVERSE CURVE
PRKG	PARKING
PROJ	PROJECT
PROP	PROPERTY
PRV	PRESSURE RELIEF VALVE
PSI	POUNDS PER SQUARE INCH
PSL	PIPE SLEEVE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE (PLASTIC)
R	RADIUS
RC	REINFORCED CONCRETE
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RD	ROAD OR ROOF DRAIN
RDC	REDUCER
REQ	REQUIRE OR REQUIRED
RFI	REQUEST FOR INFORMATION
ROW	RIGHT OF WAY
RR	RAILROAD
RT	RIGHT
SAN	SANITARY
SB	SPLASH BLOCK
SCH	SCHEDULE
SD	STORM DRAIN
SDL	SADDLE
SECT	SECTION
SEP	SEPARATE
SF	SQUARE FOOT (FEET)
SGL	SINGLE
SHLDR	SHOULDER
SOV	SHUT OFF VALVE
SPEC	SPECIFICATION
SF	SQUARE FEET
SS	SANITARY SEWER
STA	STATION
STD	STANDARD
STM	STEAM
SURF	SURFACE
SURV	SURVEY
SW	SIDEWALK
SY	SQUARE YARD
T	TELEPHONE
TBM	TEMPORARY BENCHMARK
TB-XX	TEST BORING-XX (E.G., TB-01)
TD	TRENCH DRAIN
TE	TOP ELEVATION
TEMP	TEMPORARY
THK	THICKNESS
TOB	TOP OF BANK
TOC	TOP OF CURB
TOPO	TOPOGRAPHY
TOS	TOE OF SLOPE
TP	TELEPHONE POLE
TYP	TYPICAL
TW	TOP OF WALL
UD	UNDERDRAIN
UP	UTILITY POLE
UTIL	UTILITY
USGS	U.S. GEOLOGICAL SURVEY
VAR	VARIES
VB	VALVE BOX
VC	VERTICAL CURVE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VOL	VOLUME
W	WATER LINE
WM	WATER METER OR WATER MAIN
WT	WATER TABLE
WTR	WATER
WW	WASTE WATER
WWF	WELDED WIRE FABRIC
XFMR	TRANSFORMER

PROPOSED LEGEND



Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON | CHARLOTTE ENGINEERS

CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
GUIDON DESIGN, INC.
1221 N. PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202

FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
CHARLOTTE ENGINEERS
5838 MONROE ROAD
CHARLOTTE, NC 28212

STAMP

GEORGIA REGISTERED No. PE041693 PROFESSIONAL ENGINEER LICENSED

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	GENERAL NOTES
Phase	BID DOCUMENTS
Project Title	Construct TDVV CLC 12 Beds
Project Number	508-349
Building Number	
Approved:	
	FULLY SPRINKLERED
Location	180 MARTIN DR, CARROLLTON, GA 30117
Issue Date	12/16/2024
Checked	KJC
Drawn	TJS
Drawing Number	CI001

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PHASING PLAN

PHASE 0:

-PRIOR TO MOBILIZATION, CONTRACTOR IS TO PROVIDE NECESSARY DOCUMENTS, PERMITS, CONDUCT NECESSARY SITE INVESTIGATIONS, AND PROVIDE SUBMITTALS FOR CRITICAL ITEMS

PHASE 1:

-INSTALL SPECIALITY CONSTRUCTION SIGN
-INSTALL EROSION CONTROL MEASURES
-COORDINATE WITH ELECTRICAL PROVIDER TO BRING NEW SERVICES TO SITE
-INSTALL NEW DUMPSTER PAD AND RELOCATE DUMPSTER
-DEMOLISH EXISTING SITEWORK AND BEGIN EARTHWORK
-REMOVE EXISTING UTILITIES AND INSTALL NEW UTILITIES. ENSURE SERVICE FOR EXISTING BUILDING IS MAINTAINED. COORDINATE WITH COR FOR ACCEPTABLE TIMES TO DISTURB AND SWITCH SERVICES TO NEW INFRASTRUCTURE.
-INSTALL NEW UTILITIES. ACCESS TO WEST SIDE AND SOUTH SIDE OF NEW BUILDING MAY BE LIMITED ONCE NEW BUILDING IS CONSTRUCTED.

PHASE 2:

-CONSTRUCT NEW BUILDING
-INSTALL RETAINING WALL AND SITE WORK
-INSTALL LANDSCAPING
-DEMOBILIZE

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON | CHARLOTTE ENGINEERS

CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
GUIDON DESIGN, INC.
1221 N. PENNSYLVANIA STREET
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FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
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STAMP

GEORGIA REGISTERED No. PE041693 PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PHASING PLAN	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number:
		Issue Date: 12/16/2024 / Checked: KJC / Drawn: TJS	Drawing Number: CI002

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VA FORM 08 - 6231

THIS BLOCK RESERVED FOR THE CLERK OF THE SUPERIOR COURT.

PARTIAL TOPOGRAPHIC SURVEY OF POND AND DRIVES
FOR
GUIDON DESIGN, INC.
(TRINKA DAVIS VETERANS AFFAIRS VILLAGE)
LOCATED IN
LAND LOT 233, 5TH DISTRICT
CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA

SURVEY NOTES

EQUIPMENT USED:
A TRIMBLE "S" SERIES TOTAL STATION WAS USED TO OBTAIN ANGULAR MEASUREMENTS AND DISTANCE MEASUREMENTS.

A TRIMBLE R-12 DUAL FREQUENCY GPS UNIT WAS USED FOR ESTABLISHING CONTROL. A NETWORK ADJUSTED RTK SURVEY WAS PERFORMED AND ADJUSTED BY RELATIVE POSITIONAL ACCURACY.

CLOSURE STATEMENT:
NO BOUNDARY SURVEY WAS PERFORMED BY TERRAMARK LAND SURVEYING, INC. AT THE TIME OF THIS SURVEY.

THE FIELD DATA UPON WHICH THIS SURVEY IS BASED HAD A CLOSURE OF ONE FOOT IN 82,296 FEET AND AN ANGULAR ERROR OF 7" PER ANGLE POINT AND WAS ADJUSTED USING THE COMPASS RULE.

THE BEARINGS SHOWN ON THIS SURVEY ARE COMPUTED ANGLES BASED ON A GRID BEARING BASE (GA WEST ZONE) NAD83.

ALL HORIZONTAL DISTANCES SHOWN ARE GROUND DISTANCES. MEASURING UNITS OF THIS SURVEY ARE IN U.S. SURVEY FEET.

CONTOURS ARE SHOWN AT ONE FOOT INTERVALS. ELEVATIONS ARE BASED ON RTK GLOBAL POSITIONING SYSTEMS OBSERVATION AND ARE RELATIVE TO NAVD 88 DATUM.

FIELD WORK FOR THIS PROPERTY WAS COMPLETED ON OCTOBER 6, 2023

DUE TO VARIANCES IN GPS EQUIPMENT, TECHNIQUES, FEDERAL ADJUSTMENTS TO STATE PLANE MODELS AND DAILY CONDITIONS IMPACTING GPS RECEPTIVITY, GPS SOLUTIONS MAY VARY FROM THOSE PROVIDED ON THIS SURVEY BOTH HORIZONTALLY AND VERTICALLY. ANY AND ALL CONTRACTORS, CONSULTANTS, INDIVIDUALS OR ENTITIES RELYING ON STATE PLANE COORDINATES TO RELATE TO DATA PROVIDED ON THIS SURVEY MUST LOCALIZE TO THE SURVEY CONTROL, BENCHMARKS OR PROPERTY MONUMENTATION, ESTABLISHED BY THIS SURVEY IN ORDER TO ENSURE ACCURACY OF DATA. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS, HIS CONTRACTORS, AND/OR HIS AGENTS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR ISSUES ENCOUNTERED DUE TO FAILURE TO LOCALIZE DIRECTLY TO THIS SURVEY DATUM.

INFORMATION REGARDING SIZE, LOCATION, AND SPECIES OF EXISTING TREES IS SHOWN HEREON. THERE IS NO CERTAINTY OF THE SIZE AND SPECIES OF THE SAID TREES WITHOUT VERIFICATION FROM THE DESIGNATED ARBORIST BY THE LOCAL REGULATORY AUTHORITY. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS, HIS CONTRACTORS, AND/OR HIS AGENTS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION SHOWN HEREON EXCEPT BY APPROVAL OF SAID AUTHORITY.

THIS SURVEY MAY NOT REPRESENT OFFSITE PAINT STRIPING TO THE ACCURACY REQUIRED FOR LANE DESIGN. TERRAMARK LOCATES THE EDGE OF PAVING AND CRITICAL POINTS TO REFLECT ACCURATE TOPOGRAPHIC DATA ONLY. ACCURACY OF PAINT LOCATIONS SHOULD BE VERIFIED WITH SURVEYOR PRIOR TO USING THIS SURVEY FOR DESIGN.

INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER, AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES IS SHOWN HEREON. THERE IS NO CERTAINTY TO THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT LIGHT BY THOSE USING THIS DRAWING. THE LOCATION AND ARRANGEMENT OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON MAY BE INACCURATE AND UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS, HIS CONTRACTORS, AND/OR HIS AGENTS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION SHOWN HEREON AS TO SUCH UNDERGROUND INFORMATION.

INFORMATION REGARDING STORM SEWER AND SANITARY SEWER AS SHOWN HEREON, IS BASED ON OBSERVATIONS TAKEN BY TERRAMARK EMPLOYEES AT THE GROUND ELEVATION OF THE EXISTING STRUCTURE. TERRAMARK EMPLOYEES ARE NOT AUTHORIZED TO ENTER A CONFINED SPACE SUCH AS A STRUCTURE. THEREFORE, THERE IS NO CERTAINTY OF THE PIPE SIZES AND PIPE MATERIAL THAT ARE SHOWN ON THIS SURVEY. EXCAVATION BY A CERTIFIED CONTRACTOR IS THE ONLY WAY TO VERIFY PIPE SIZE AND MATERIAL. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS, HIS CONTRACTORS, AND/OR HIS AGENTS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THE PIPE INFORMATION SHOWN HEREON.

TERRAMARK LAND SURVEYING, INC. WAS UNABLE TO DETERMINE THE EXTENT OF PIPES MARKED AS APPROXIMATE DIRECTION ONLY. AFORESAID PIPE IS DRAWN ON THE SURVEY TO REFLECT THE OBSERVED DIRECTION BASED UPON A VISUAL INSPECTION OF THE STRUCTURE ONLY AND IS SHOWN FOR INFORMATIONAL PURPOSES.

STATE WATERS AND BUFFERS AS SHOWN OR NOT SHOWN HEREON ARE SUBJECT TO REVIEW BY LOCAL JURISDICTION OFFICIALS. IT IS THE RESPONSIBILITY OF THE LOCAL AUTHORITY TO DETERMINE SPECIFIC WATER CLASSIFICATION. THEREFORE TERRAMARK LAND SURVEYING ACCEPTS NO RESPONSIBILITY IN THE IDENTIFICATION OF SAID WATERS OR BUFFERS IDENTIFIED OR NOT IDENTIFIED HEREON.

PROPERTY IS SUBJECT TO RIGHTS OF UPPER AND LOWER RIPARIAN OWNERS IN AND TO THE WATER OF CREEKS AND BRANCHES CROSSING OR ADJOINING SUBJECT PROPERTY AND THE NATURAL FLOW THEREOF, FREE FROM DIMINUTION OR POLLUTION.

THIS SURVEY WAS PREPARED FOR THE EXCLUSIVE USE OF THE PERSON, PERSONS OR ENTITY NAMED HEREON. THIS SURVEY DOES NOT EXTEND TO ANY UNNAMED PERSON, PERSONS OR ENTITY WITHOUT THE EXPRESS CERTIFICATION BY THE SURVEYOR NAMING SAID PERSON, PERSONS OR ENTITY.

TERRAMARK LAND SURVEYING, INC. DOES NOT WARRANT THE EXISTENCE OR NON-EXISTENCE OF ANY WETLANDS OR HAZARDOUS WASTE IN THE SURVEY AREA.

SITE INFORMATION

CURRENT OWNER: UNITED STATES OF AMERICA DEPARTMENT OF VETERANS AFFAIRS
DB. 5167 PG. 56
PB. 78 PG. 231

TAX PARCEL ID # C04 0060087 & C04 0060066

ADDRESS: 180 MARTIN DRIVE & 423 ALMON RD

ZONING: C-2 (GENERAL COMMERCIAL)
JURISDICTION: CITY OF CARROLLTON

SETBACKS:NOT SHOWN

TITLE NOTES

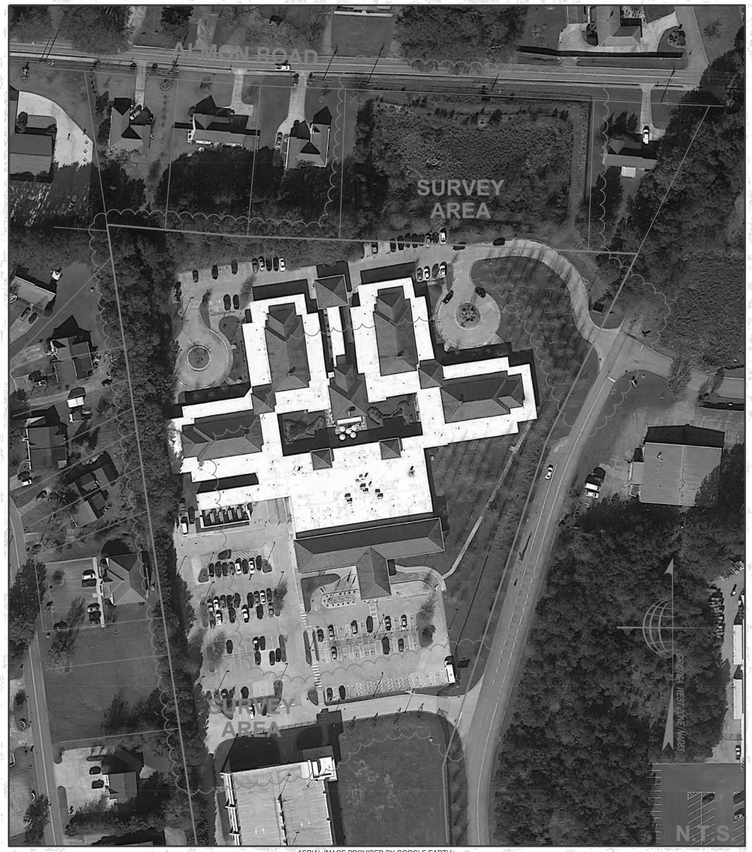
ACCORDING TO THE "FIRM" (FLOOD INSURANCE RATE MAP) OF CARROLL COUNTY, GEORGIA (PANEL NUMBER 13045C0258D), DATED SEPTEMBER 19, 2007; NO PORTION OF THIS PROPERTY LIES WITHIN A SPECIAL FLOOD HAZARD AREA.

THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT, WHICH COULD REVEAL ENCUMBRANCES NOT SHOWN ON THIS SURVEY.

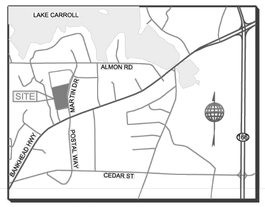
SUBJECT PROPERTY HAS ACCESS TO THE PUBLIC RIGHT OF WAY OF MARTIN DRIVE.

JOB NUMBER 2016-217 PLOT SIZE 24 X 36

SITE MAP



AERIAL IMAGE PROVIDED BY GOOGLE EARTH
IMAGERY DATED NOVEMBER 17, 2022



LOCATION MAP

NOT TO SCALE
LAT - 33°35'21.31"N
LONG - 85°03'28.19"W

REFERENCE MATERIAL

1. WARRANTY DEED FOR THE UNITED STATES OF AMERICA DEPARTMENT OF VETERANS AFFAIRS RECORDED IN DB. 5167 PG. 56 AMONG THE LAND RECORDS OF CARROLL COUNTY
2. LIMITED WARRANTY DEED FOR CARROLLTON PAVILION, LLC. RECORDED IN DB. 2824 PG. 197 AFORESAID RECORDS
3. PROPERTY SURVEY FOR N.J. PROPERTIES, LLC. RECORDED IN PB. 69 PG. 158 AFORESAID RECORDS
4. FINAL PLAT FOR CAMBRIDGE COTTAGES, PHASE TWO RECORDED IN PB. 39 PG. 25 AFORESAID RECORDS

UTILITY NOTES

THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON LOCATION OF MARKINGS ON SEPTEMBER 16, 2023 AND PROVIDED BY:

RHD SERVICES
P.O. BOX 813399
SMYRNA, GA 30081
PHONE: 404-874-8585
ATTENTION: MIKE

THE UNDERGROUND UTILITIES (EXCEPT THE LOCATION OF EXISTING DRAINAGE, SEWER, AND IRRIGATION UTILITIES AS WELL AS UNDERGROUND STORAGE TANKS) WERE LOCATED BY UTILISURVEY, LLC. UTILIZING RADIO FREQUENCY TECHNIQUE AND IN ACCORDANCE TO LEVEL "B" UTILITY LOCATION CRITERIA. THIS TECHNIQUE IS CAPABLE OF LOCATING METALLIC UTILITIES AND TRACER WIRES. ANY NON- METALLIC UTILITIES (WITHOUT TRACER WIRE) ARE NOT LOCATED.

THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN- SERVICE OR ABANDONED. UNDERGROUND UTILITIES NOT OBSERVED OR LOCATED UTILIZING THIS TECHNIQUE MAY EXIST ON THIS SITE BUT ARE NOT SHOWN, AND MAY BE FOUND UPON EXCAVATION. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

INFORMATION REGARDING MATERIAL AND SIZE OF UTILITIES IS BASED ON RECORDS ACQUIRED FROM THE UTILITY OWNERS.

UTILITY PROVIDERS

GAS
ATLANTA GAS LIGHT
(470) 366-6639

WATER
CITY OF CARROLLTON
(404) 535-2254

POWER
GEORGIA POWER COMPANY
(404) 506-6539

CARROLL EMC
(770) 830-5772

COMMUNICATION
AT&T
(305) 409-1542

CHARTER COMMUNICATIONS
(800) 778-9140

SPECIAL NOTES

1. CERTIFICATION AND DECLARATION IS MADE TO THE ENTITIES AS LISTED IN THE TITLE BLOCK AND/OR CERTIFICATIONS. THE CERTIFICATIONS AND DECLARATIONS ON THIS PLAT ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.
2. SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS PROPERTY.
3. PURSUANT TO RULE 180-6.09 OF THE GEORGIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS, THE TERM "CERTIFICATION" RELATING TO PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES SHALL MEAN A SIGNED STATEMENT BASED UPON FACTS AND KNOWLEDGE KNOWN TO THE REGISTRANT AND IS NOT A GUARANTEE OR WARRANTY, EITHER EXPRESSED OR IMPLIED.
4. NO CEMETERIES OR BURIAL GROUNDS HAVE BEEN OBSERVED BY TERRAMARK.
5. NO WETLAND DELINEATION MARKINGS HAVE BEEN OBSERVED BY TERRAMARK.
6. NO RECENT EARTH MOVING OR BUILDING CONSTRUCTION HAS BEEN OBSERVED BY TERRAMARK.
7. NO CHANGE IN STREET RIGHTS OF WAY HAVE BEEN MADE AVAILABLE TO TERRAMARK.

SURVEYOR'S CERTIFICATE

THIS SURVEY WAS PREPARED UNDER MY DIRECT SUPERVISION. THE INFORMATION SHOWN HEREON IS ACCURATE AND CORRECT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

GEORGIA REGISTERED No. 2887 LAND SURVEYOR JOHN C. BLOUNT

JOHN C. BLOUNT, RLS
REGISTERED NUMBER: 2887

TerraMark Land Surveying, Inc.
1745 Mt. Zion Road
Marietta, Georgia 30066
Phone No. (770) 421-1927
C.O.A.# LSF000810
C.O. A.# LSF000810
TerraMark Geospatial

No	Revision	Date
#1		
#2		
#3		
#4		
#5		
#6		
#7		
#8		
FINAL	S:\SURVEY\2016-217\DWG 2016-217.DWG	4/4/2024 7:07:12 AM

Project No. 2016-217
Survey Crew: MK
Drawn By: NEC
Approved By: JBC
Date: 10/08/23
Scale: 1"=20'

SHEET NO.
1/4
DRAWING# TM 16-217

PARTIAL TOPOGRAPHIC SURVEY OF POND AND DRIVES
FOR
GUIDON DESIGN, INC.
(TRINKA DAVIS VETERANS AFFAIRS VILLAGE)
LOCATED IN
LAND LOT 233, 5TH DISTRICT
CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON / CHARLOTTE ENGINEERS

CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
GUIDON DESIGN, INC.
1221 N. PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202

FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
CHARLOTTE ENGINEERS
5838 MONROE ROAD
CHARLOTTE, NC 28212

STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TOPOGRAPHIC SURVEY	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
			Building Number
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Drawing Number: VF101
		Issue Date: 12/16/2024 / Checked: KJC / Drawn: TJS	

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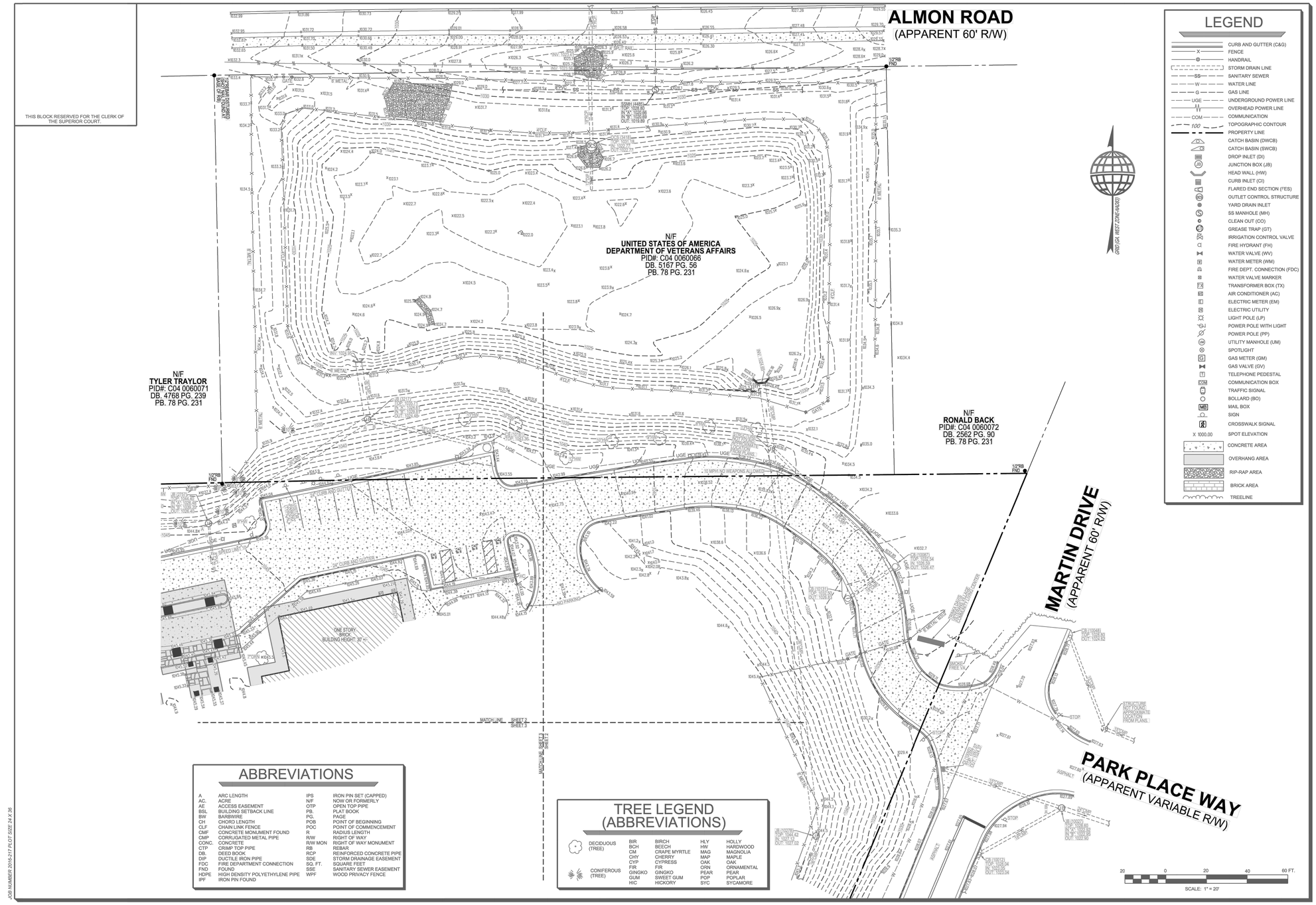

LEGEND

- CURB AND GUTTER (C&G)
- FENCE
- HANDRAIL
- STORM DRAIN LINE
- SS — SANITARY SEWER
- W — WATER LINE
- G — GAS LINE
- UGE — UNDERGROUND POWER LINE
- OVERHEAD POWER LINE
- COM — COMMUNICATION
- 100 — TOPOGRAPHIC CONTOUR
- PROPERTY LINE
- CATCH BASIN (DWCB)
- CATCH BASIN (SWCB)
- DROP INLET (DI)
- JB — JUNCTION BOX (JB)
- HEAD WALL (HW)
- CURB INLET (CI)
- FLARED END SECTION (FES)
- OUTLET CONTROL STRUCTURE
- YARD DRAIN INLET
- SS MANHOLE (MH)
- CLEAN OUT (CO)
- GT — GREASE TRAP (GT)
- IRRIGATION CONTROL VALVE
- FIRE HYDRANT (FH)
- WATER VALVE (WV)
- WM — WATER METER (WM)
- FIRE DEPT. CONNECTION (FDC)
- WATER VALVE MARKER
- TX — TRANSFORMER BOX (TX)
- AC — AIR CONDITIONER (AC)
- ELECTRIC METER (EM)
- ELECTRIC UTILITY
- LP — LIGHT POLE (LP)
- POWER POLE WITH LIGHT
- PP — POWER POLE (PP)
- UM — UTILITY MANHOLE (UM)
- SPOTLIGHT
- G — GAS METER (GM)
- GAS VALVE (GV)
- T — TELEPHONE PEDESTAL
- COM — COMMUNICATION BOX
- TRAFFIC SIGNAL
- BOLLARD (BO)
- MB — MAIL BOX
- SIGN
- CROSSWALK SIGNAL
- X 1000.00 — SPOT ELEVATION
- CONCRETE AREA
- OVERHANG AREA
- RIP-RAP AREA
- BRICK AREA
- TREELINE

ABBREVIATIONS

A	ARC LENGTH	IPS	IRON PIN SET (CAPPED)
AC.	ACRE	N/F	NOW OR FORMERLY
AE	ACCESS EASEMENT	OTP	OPEN TOP PIPE
BSL	BUILDING SETBACK LINE	PB.	PLAT BOOK
BW	BARBWIRE	PG.	PAGE
CH	CHORD LENGTH	POB	POINT OF BEGINNING
CLF	CHAIN LINK FENCE	POC	POINT OF COMMENCEMENT
CMF	CONCRETE MONUMENT FOUND	R	RADIUS LENGTH
CMP	CORRUGATED METAL PIPE	R/W	RIGHT OF WAY
CONC.	CONCRETE	R/W MON	RIGHT OF WAY MONUMENT
CTP	CRIMP TOP PIPE	RB	REBAR
DB.	DEED BOOK	RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE	SDE	STORM DRAINAGE EASEMENT
FDC	FIRE DEPARTMENT CONNECTION	SQ. FT.	SQUARE FEET
FND	FOUND	SSE	SANITARY SEWER EASEMENT
HDPE	HIGH DENSITY POLYETHYLENE PIPE	WPF	WOOD PRIVACY FENCE
IPF	IRON PIN FOUND		

TREE LEGEND (ABBREVIATIONS)

DECIDUOUS (TREE)	BIR	BIRCH	HLY	HOLLY
	BCH	BEECH	HW	HARDWOOD
	CM	CRAPE MYRTLE	MAG	MAGNOLIA
	CHY	CHERRY	MAP	MAPLE
	CYP	CYPRESS	OAK	OAK
CONIFEROUS (TREE)	FIR	FIR	ORN	ORNAMENTAL
	GINGKO	GINGKO	PEAR	PEAR
	GUM	SWEET GUM	POP	POPLAR
	HIC	HICKORY	SYC	SYCAMORE

JOB NUMBER 2016-317 PLOT SIZE 24 X 36

Autodesk Docs://22.8003 - VA Atlanta Trinka Davis CLC/22.8003_A_v22.rvt

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VA FORM 08 - 6231

TerraMark Land Surveying, Inc.
1180 Hemphill Avenue
Marietta, Georgia 30066

Phone No. (770) 421-1927
Fax No. (770) 421-1937
C.O.A.# LSF000978

TerraMark Geospatial

No	Revision	Date
#1	RE	
#2	KS	
#3	KJC	
#4	KJC	
#5	KJC	
#6	KJC	
#7	KJC	
#8	KJC	

Project No.: 2016-317
Survey Chief: NK
Drawn By: NEC
Approved By: JRC
Date: 10/08/23
Scale: 1"=20'

PARTIAL TOPOGRAPHIC SURVEY
OF POND AND DRIVES
FOR
GUIDON DESIGN, INC.
(TRINKA DAVIS VETERANS AFFAIRS VILLAGE)
LOCATED IN
LAND LOT 233, 5TH DISTRICT
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SHEET NO.
2/4
DRAWING# TM 16-217

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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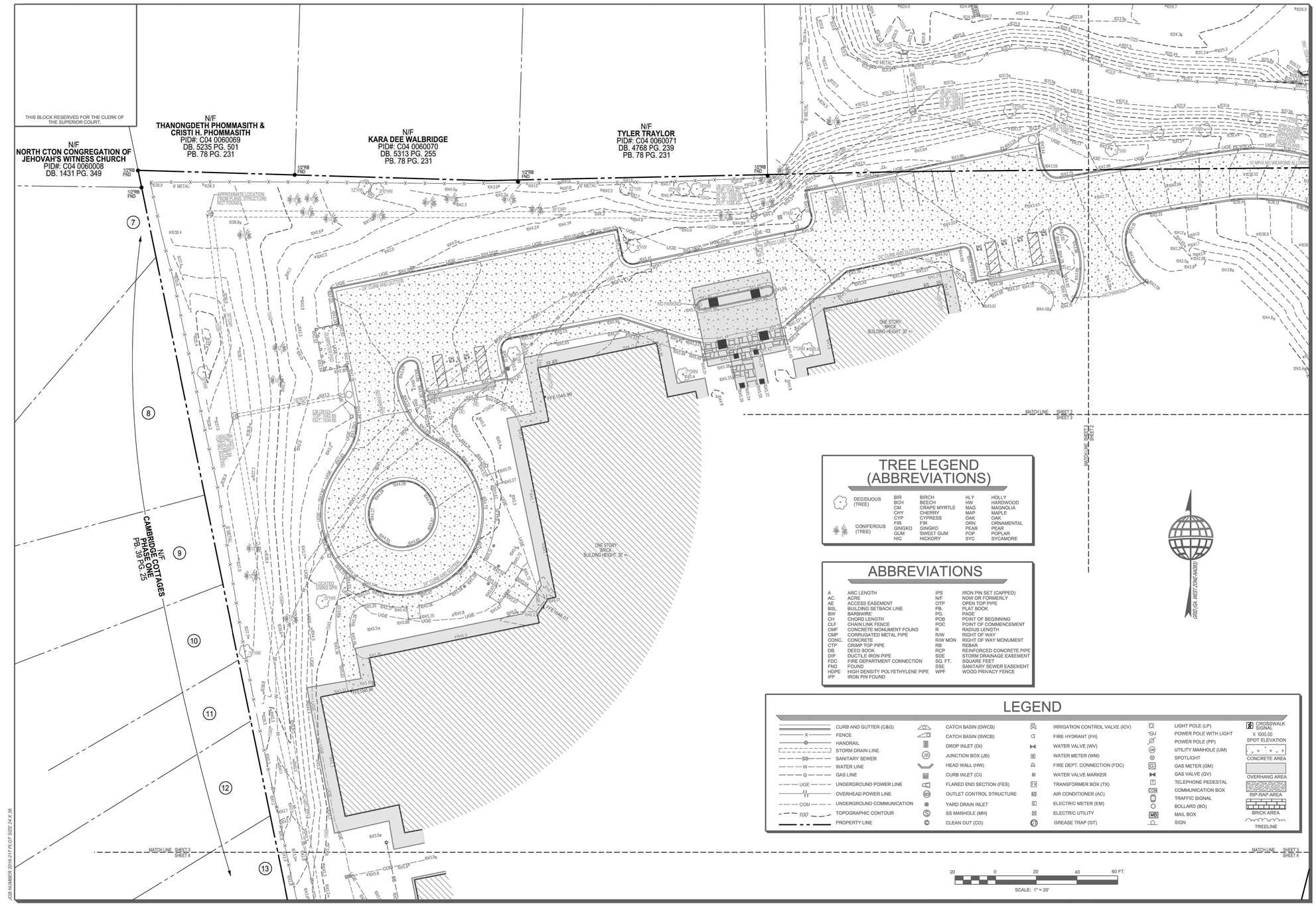
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TOPOGRAPHIC SURVEY	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
			Building Number
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Drawing Number: VF102
		Issue Date: 12/16/2024 / Checked: KJC / Drawn: TJS	



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	CHY	CHERRY	MAP	MAPLE
	CYP	CYPRESS	OAK	OAK
CONIFEROUS (TREE)	FIR	FIR	ORN	ORNAMENTAL
	GINGKO	GINGKO	PEAR	PEAR
	GUM	SWEET GUM	POP	POPLAR
	HIC	HICKORY	SYC	SYCAMORE

ABBREVIATIONS

A	ARC LENGTH	IPS	IRON PIN SET (CAPPED)
AC.	ACRE	N/F	NOW OR FORMERLY
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BW	BARBWIRE	PG.	PAGE
CH	CHORD LENGTH	POB	POINT OF BEGINNING
CLF	CHAIN LINK FENCE	POC	POINT OF COMMENCEMENT
CMF	CONCRETE MONUMENT FOUND	R	RADIUS LENGTH
CMP	CORRUGATED METAL PIPE	R/W	RIGHT OF WAY
CONC.	CONCRETE	R/W MON	RIGHT OF WAY MONUMENT
CTP	CRIMP TOP PIPE	RB	REBAR
DB.	DEED BOOK	RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE	SDE	STORM DRAINAGE EASEMENT
FDC	FIRE DEPARTMENT CONNECTION	SQ. FT.	SQUARE FEET
FND	FOUND	SSE	SANITARY SEWER EASEMENT
HDPE	HIGH DENSITY POLYETHYLENE PIPE	WPF	WOOD PRIVACY FENCE
IPF	IRON PIN FOUND		

LEGEND

- CURB AND GUTTER (C&G)
- FENCE
- HANDRAIL
- STORM DRAIN LINE
- SANITARY SEWER
- WATER LINE
- GAS LINE
- UNDERGROUND POWER LINE
- OVERHEAD POWER LINE
- UNDERGROUND COMMUNICATION
- TOPOGRAPHIC CONTOUR
- PROPERTY LINE
- CATCH BASIN (DWCB)
- CATCH BASIN (SWCB)
- DROP INLET (DI)
- JUNCTION BOX (JB)
- HEAD WALL (HW)
- CURB INLET (CI)
- FLARED END SECTION (FES)
- OUTLET CONTROL STRUCTURE
- YARD DRAIN INLET
- SS MANHOLE (MH)
- CLEAN OUT (CO)
- IRRIGATION CONTROL VALVE (ICV)
- FIRE HYDRANT (FH)
- WATER VALVE (WV)
- WATER METER (WM)
- FIRE DEPT. CONNECTION (FDC)
- WATER VALVE MARKER
- TRANSFORMER BOX (TX)
- AIR CONDITIONER (AC)
- ELECTRIC METER (EM)
- ELECTRIC UTILITY
- GREASE TRAP (GT)
- LIGHT POLE (LP)
- POWER POLE WITH LIGHT
- POWER POLE (PP)
- UTILITY MANHOLE (UM)
- SPOTLIGHT
- GAS METER (GM)
- GAS VALVE (GV)
- TELEPHONE PEDESTAL
- COMMUNICATION BOX
- TRAFFIC SIGNAL
- BOLLARD (BO)
- MAIL BOX
- SIGN
- CROSSWALK SIGNAL
- X 1000.00 SPOT ELEVATION
- CONCRETE AREA
- OVERHANG AREA
- RIP-RAP AREA
- BRICK AREA
- TREELINE

20 0 20 40 60 FT.
SCALE: 1" = 20'

TerraMark Land Surveying, Inc.
1000 Hwy 81 N Bldg. A
Mansfield, Georgia 30055
Phone No. (770) 421-1927
C.O.A. # LSF000810

TerraMark Geospatial

No	Revision	Date
#1		
#2		
#3		
#4		
#5		
#6		
#7		
#8		

Project No.	2016-317
Survey Chief:	MK
Drawn By:	NEC
Approved By:	JRC
Date:	10/09/23
Scale:	1"=20'

S:\SURVEY\2016\2016-317\DGN\ MASTER ROTTDGN

PARTIAL TOPOGRAPHIC SURVEY OF POND AND DRIVES
FOR
GUIDON DESIGN, INC.
(TRINKA DAVIS VETERANS AFFAIRS VILLAGE)
LOCATED IN
LAND LOT 233, 5TH DISTRICT
CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA

SHEET NO.
3/4
DRAWING# TM 16-217

8/6/2024 9:24:15 AM
Autodesk Docs://22 9003 - VA Atlanta Trinka Davis CLC/22 9003_A_v22.rvt

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON | CHARLOTTE ENGINEERS

CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
GUIDON DESIGN, INC.
1221 N. PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202

FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
CHARLOTTE ENGINEERS
5838 MONROE ROAD
CHARLOTTE, NC 28212

STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TOPOGRAPHIC SURVEY	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 / Checked: KJC / Drawn: TJS	Drawing Number: VF103

VA FORM 08 - 6231

THIS BLOCK RESERVED FOR THE CLERK OF THE SUPERIOR COURT.

MATCHLINE SHEET 3 SHEET 4

MATCHLINE SHEET 3 SHEET 4

N/F
CAMBRIDGE COTTAGES PHASE ONE
PB. 39 PG. 25

N/F
TOMMY E. ELLISON & SUSAN ELLISON
PID#: C04 0060040
DB. 3957 PG. 48
PB. 69 PG. 158

N/F
ELLISON PROPERTY MANAGMENT, INC.
PID#: C04 0060039
DB. 5136 PG. 93
PB. 69 PG. 158

N/F
GRANDVIEW VENTURES, LLC.
PID#: C04 0060038
DB. 5545 PG. 875
PB. 69 PG. 158

MARTIN DRIVE
(APPARENT 60' R/W)

LEGEND

- CURB AND GUTTER (C&G)
- FENCE
- HANDRAIL
- STORM DRAIN LINE
- SANITARY SEWER
- WATER LINE
- GAS LINE
- UNDERGROUND POWER LINE
- OVERHEAD POWER LINE
- COMMUNICATION
- TOPOGRAPHIC CONTOUR
- PROPERTY LINE
- CATCH BASIN (DWCB)
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- SIGN
- CROSSWALK SIGNAL
- X 1000.00 SPOT ELEVATION
- CONCRETE AREA
- OVERHANG AREA
- RIP-RAP AREA
- BRICK AREA
- TREELINE

GRID (GA. WEST ZONE NAD83)

TREE LEGEND (ABBREVIATIONS)

DECIDUOUS (TREE)	BIR	BIRCH	HLY	HOLLY
	BCH	BEECH	HW	HARDWOOD
	CM	CRAPE MYRTLE	MAG	MAGNOLIA
	CHY	CHERRY	MAP	MAPLE
	CYP	CYPRESS	OAK	OAK
	FIR	FIR	ORN	ORNAMENTAL
CONIFEROUS (TREE)	GINGKO	GINGKO	PEAR	PEAR
	GUM	SWEET GUM	POP	POPLAR
	HIC	HICKORY	SYC	SYCAMORE

ABBREVIATIONS

A	ARC LENGTH	IPS	IRON PIN SET (CAPPED)
AC.	ACRE	N/F	NOW OR FORMERLY
AE.	ACCESS EASEMENT	OTP	OPEN TOP PIPE
BSL	BUILDING SETBACK LINE	PB.	PLAT BOOK
BW	BARBWIRE	PG.	PAGE
CH	CHORD LENGTH	POB	POINT OF BEGINNING
CLF	CHAIN LINK FENCE	POC	POINT OF COMMENCEMENT
CMF	CONCRETE MONUMENT FOUND	R	RADIUS LENGTH
CMP	CORRUGATED METAL PIPE	R/W	RIGHT OF WAY
CONC.	CONCRETE	R/W MON	RIGHT OF WAY MONUMENT
CTP	CRIMP TOP PIPE	RB	REBAR
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DIP	DUCTILE IRON PIPE	SDE	STORM DRAINAGE EASEMENT
FDC	FIRE DEPARTMENT CONNECTION	SQ. FT.	SQUARE FEET
FND	FOUND	SSE	SANITARY SEWER EASEMENT
HDPE	HIGH DENSITY POLYETHYLENE PIPE	WPF	WOOD PRIVACY FENCE
IPF	IRON PIN FOUND		

20 0 20 40 60 FT.
SCALE: 1" = 20'

JOB NUMBER 20161-217 PLOT SIZE: 24 X 36

No	Revision	Date
#1	REVISED PER 2016-217.DGN	10/8/2024
#2	REVISED PER 2016-217.DGN	10/9/2024
#3	REVISED PER 2016-217.DGN	10/10/2024
#4	REVISED PER 2016-217.DGN	10/11/2024
#5	REVISED PER 2016-217.DGN	10/12/2024
#6	REVISED PER 2016-217.DGN	10/13/2024
#7	REVISED PER 2016-217.DGN	10/14/2024
#8	REVISED PER 2016-217.DGN	10/15/2024

Project No. 20161-217
Survey Crew: MK
Drawn By: NEC
Approved By: JBC
Date: 10/08/23
Scale: 1"=20'

TerraMark Land Surveying, Inc.
1000 Holcomb Woods Pkwy
Roswell, Georgia 30076
Phone No. (770) 421-1927
Fax No. (770) 421-1927
C.O.A. # LSF000970

TerraMark Geospatial

PARTIAL TOPOGRAPHIC SURVEY OF POND AND DRIVES
FOR
GUIDON DESIGN, INC.
(TRINKA DAVIS VETERANS AFFAIRS VILLAGE)
LOCATED IN
LAND LOT 233, 5TH DISTRICT
CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA

SHEET NO.
4/4
DRAWING# TM 16-217

8/6/2024 9:24:15 AM

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC/22.9003_A_v22.rvt

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON | CHARLOTTE ENGINEERS

CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
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FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
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CHARLOTTE, NC 28212

STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TOPOGRAPHIC SURVEY	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:		Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
	FULLY SPRINKLERED	Issue Date: 12/16/2024 / Checked: KJC / Drawn: TJS	Drawing Number: VF104

VA FORM 08 - 6231

DEMOLITION PLAN KEYNOTES

1. SAWCUT AND REMOVE FULL DEPTH CONCRETE PAVEMENT
2. SAWCUT AND REMOVE CONCRETE CURB AND GUTTER
3. SAWCUT AND REMOVE CONCRETE SIDEWALK
4. REMOVE VEGETATION AND ROOT BALL
5. REMOVE DECORATIVE METAL FENCE, 6' TALL
6. REMOVE LIGHT POLE AND FOUNDATION
7. REMOVE SITE LIGHTING ELECTRICAL CONDUIT AND WIRING
8. REMOVE CONCRETE POST BARRICADE WITH LIGHTING
9. REMOVE CONCRETE POST BARRICADE
10. REMOVE CONCRETE PAD
11. REMOVE FIRE HYDRANT AND ASSEMBLY
12. REMOVE 8" WATER LINE
13. REMOVE SIGN
14. REMOVE DETECTABLE WARNING STRIP
15. REMOVE STORM STRUCTURE
16. REMOVE STORM SEWER
17. CAP EXISTING STORM STRUCTURE WITH BRICK AND MORTAR
18. REMOVE ELECTRICAL POWER CONDUIT AND WIRING
19. VALVE AND PLUG EXISTING WATER LINE TEMPORARILY DURING CONSTRUCTION
20. EXISTING LIGHT POLE TO REMAIN. PROTECT IN PLACE.
21. REMOVE LIGHT POLE AND FOUNDATION. RELOCATE LIGHT POLE WITH NEW FOUNDATION, SEE SITE PLAN, UTILITY PLAN, AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON | CHARLOTTE ENGINEERS

CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
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FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
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CHARLOTTE, NC 28212

STAMP

GEORGIA REGISTERED No. PEG014693 PROFESSIONAL ENGINEER LUKE J. JOHNSON

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	DEMOLITION PLAN
Phase	BID DOCUMENTS
Project Title	Construct TDVV CLC 12 Beds
Project Number	508-349
Building Number	
Approved:	
	FULLY SPRINKLERED
Location	180 MARTIN DR, CARROLLTON, GA 30117
Drawing Number	CD101
Issue Date	12/16/2024
Checked	KJC
Drawn	TJS

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC/22.9003_A_v22.rvt
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VA FORM 08 - 6231

SITE PLAN KEYNOTES

1. FULL DEPTH CONCRETE PAVEMENT
2. CONCRETE CURB AND GUTTER
3. CONCRETE SIDEWALK
4. RETAINING WALL
5. DECORATIVE METAL FENCE, 6' TALL
6. DECORATIVE METAL PEDESTRIAN GATE, 6' TALL
7. OPAQUE FENCE, 8' TALL
8. DECORATIVE METAL SWING GATE, 6' TALL
9. CURB ACCESS RAMP
10. PAVEMENT MARKING, YELLOW, PAINTED
11. PAVEMENT MARKING, BLUE, PAINTED
12. PAVEMENT MARKING, ACCESSIBLE SYMBOL, PAINTED
13. CONCRETE EQUIPMENT PAD
14. DUMPSTER PAD
15. VEGETATION BUFFER, SEE LP101
16. MOUNTABLE CONCRETE CURB AND GUTTER
17. TRUNCATED DONE TACTILE - WARNING STRIP
18. RELOCATED LIGHT POLE WITH NEW FOUNDATION, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION
19. CONCRETE BOLLARD
20. GENERATOR SCREENING WALL, SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
21. ACCESSIBLE PARKING SIGN
22. OUTDOOR BENCH, SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
23. TRELLIS, SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
24. PLANTER, SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
25. CONCRETE CURB AND GUTTER, REVERSE SLOPE
26. DECORATIVE BOLLARD WITH LIGHT, SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
27. CONCRETE STOOP
28. CONCRETE SIDEWALK, STAMPED PATTERN

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON | CHARLOTTE ENGINEERS

CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
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FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
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5838 MONROE ROAD
CHARLOTTE, NC 28212

STAMP

GEORGIA REGISTERED No. PEC014693 PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SITE PLAN	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 / Checked: KJC / Drawn: TJS	Drawing Number: CS101

Autodesk Docs://22.9003 - VA Atlanta Tinka Davis CLC/22.9003_A_v22.rvt
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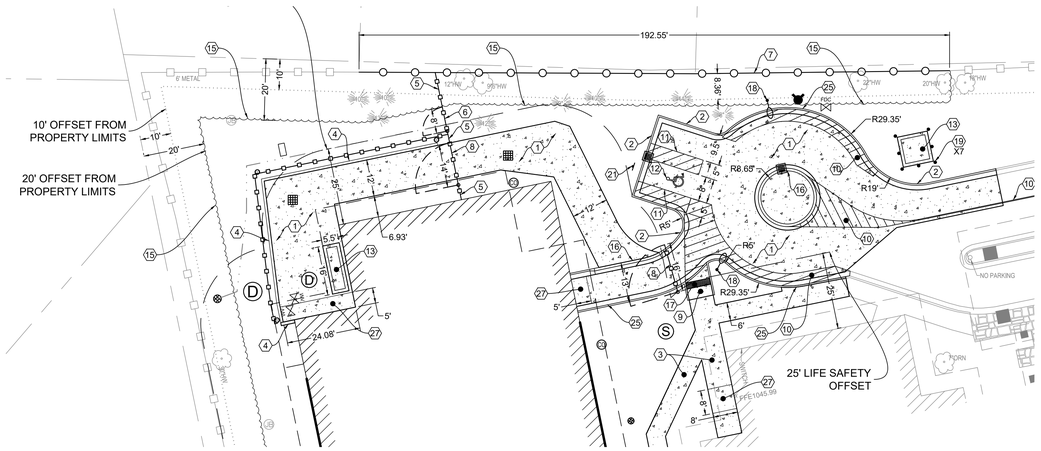
VA FORM 08 - 6231



SITE PLAN - DEDUCT C

N

0 20 40

SITE PLAN KEYNOTES

1. FULL DEPTH CONCRETE PAVEMENT
2. CONCRETE CURB AND GUTTER
3. CONCRETE SIDEWALK
4. RETAINING WALL
5. DECORATIVE METAL FENCE, 6' TALL
6. DECORATIVE METAL PEDESTRIAN GATE, 6' TALL
7. OPAQUE FENCE, 8' TALL
8. DECORATIVE METAL SWING GATE, 6' TALL
9. CURB ACCESS RAMP
10. PAVEMENT MARKING, YELLOW, PAINTED
11. PAVEMENT MARKING, BLUE, PAINTED
12. PAVEMENT MARKING, ACCESSIBLE SYMBOL, PAINTED
13. CONCRETE EQUIPMENT PAD
14. DUMPSTER PAD
15. VEGETATION BUFFER, SEE LP101
16. MOUNTABLE CONCRETE CURB AND GUTTER
17. TRUNCATED DONE TACTILE - WARNING STRIP
18. RELOCATED LIGHT POLE WITH NEW FOUNDATION, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION
19. CONCRETE BOLLARD
20. GENERATOR SCREENING WALL, SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
21. ACCESSIBLE PARKING SIGN
22. OUTDOOR BENCH, SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
23. TRELLIS, SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
24. PLANTER, SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
25. CONCRETE CURB AND GUTTER, REVERSE SLOPE
26. DECORATIVE BOLLARD WITH LIGHT, SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
27. CONCRETE STOOP
28. CONCRETE SIDEWALK, STAMPED PATTERN

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON / CHARLOTTE ENGINEERS

CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
GUIDON DESIGN, INC.
1221 N. PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202

FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
CHARLOTTE ENGINEERS
5838 MONROE ROAD
CHARLOTTE, NC 28212

STAMP

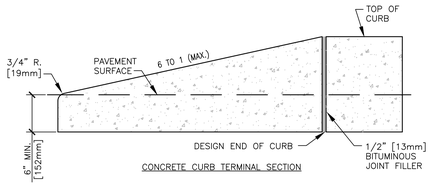
GEORGIA REGISTERED No. PE041693 PROFESSIONAL ENGINEER LICENSED

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SITE PLAN - DEDUCT C
Approved:
Phase: BID DOCUMENTS
FULLY SPRINKLERED
Project Title: Construct TDVV CLC 12 Beds
Location: 180 MARTIN DR, CARROLLTON, GA 30117
Issue Date: 12/16/2024
Checked: KJC
Drawn: TJS
Project Number: 508-349
Building Number:
Drawing Number: CS102

Autodesk Docs://22.8003 - VA Atlanta Trinka Davis CLC/22.8003_A_v22.rvt
8/6/2024 9:24:16 AM
VA FORM 08 - 6231

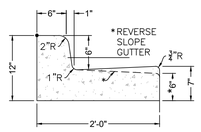


CONCRETE CURB TERMINAL SECTION

NOTES:
1. ALL CONCRETE CURBS AND TRANSITIONS, SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
2. CONCRETE SHALL BE FINISHED WITH A STEEL TROWEL FOLLOWED BY BRUSHING WITH A FINE BRUSH ALONG THE LENGTH OF THE CURB OR CURB AND GUTTER.
3. SINGLE CURB MAY BE CONSTRUCTED BY THE USE OF FORMS OR MAY BE SLIP FORMED.
4. ALL EXPOSED EDGES AND HAND TOOLED JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4" [6mm] RADIUS UNLESS A LARGER RADIUS IS INDICATED BY THE APPLICABLE STANDARD DETAIL OR PROJECT PLANS.

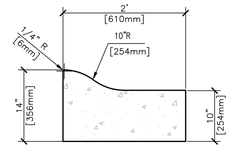
CONCRETE CURB AND GUTTER TERMINAL SECTION

NTS



CONCRETE CURB AND GUTTER

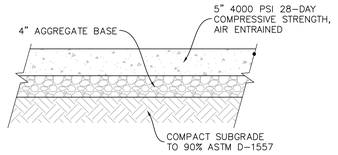
N.T.S.



NOTE: CROSS SLOPE OF GUTTER SAME AS PAVEMENT.

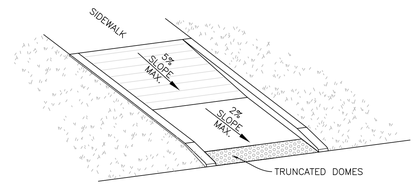
MOUNTABLE CONCRETE CURB AND GUTTER

NTS



CONCRETE PAVEMENT

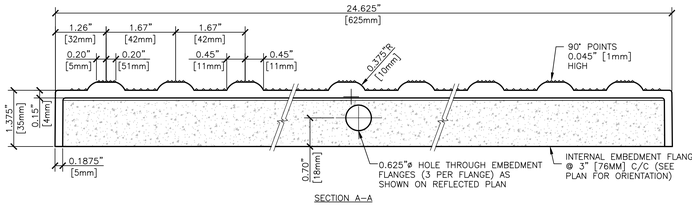
NTS



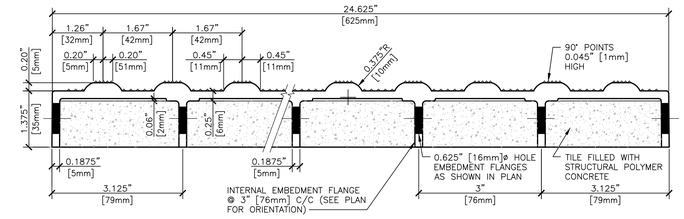
CURB ACCESS RAMP, TYPE 3

NTS

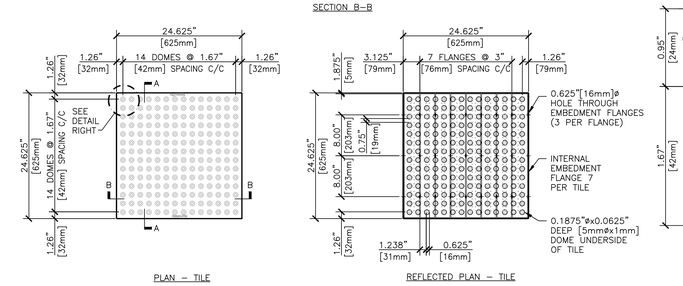
NOTES:
1. SUBGRADE TO BE A FREE DRAINING MATERIAL COMPACTED TO 95% OF MAXIMUM AS DETERMINED BY ASTM D-698.
2. CONCRETE TO BE 4000 PSI @ 28 DAYS WITH 5 TO 7% AIR ENTRAINMENT.
3. CONTRACTOR TO COMPLY WITH AMERICANS WITH DISABILITIES ACT REQUIREMENTS WHEN CONSTRUCTING FACILITIES FOR HANDICAP ACCESSIBILITY.



SECTION A–A

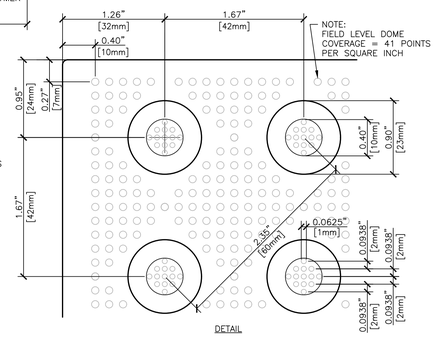


SECTION B–B



PLAN – TILE

REFLECTED PLAN – TILE

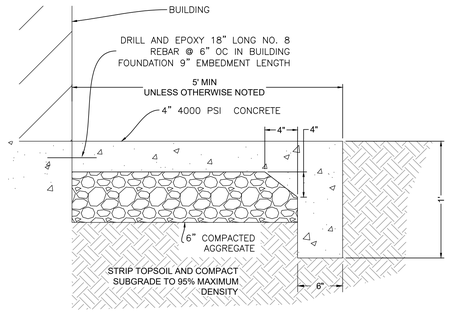


DETAIL

DETECTABLE WARNING NOTES:
THE DETECTABLE WARNING STRIP MUST COVER THE ENTIRE WIDTH OF THE RAMP OPENING, EXCLUDING THE WINGS. ALL DOMES MUST BE ALIGNED IN THE DIRECTION OF TRAVEL. ONE CORNER OF THE LEADING EDGE OF THE DETECTABLE WARNING MAY BE MORE THAN 5 FEET FROM THE BACK OF THE CURB. WHEN LOCATED ALONG A CURB RETURN, THE LEADING EDGE OF THE DETECTABLE WARNING MAY BE DEFINED BY THE CHORD DRAWN BETWEEN THE LEADING EDGES OF THE RAMP OPENING.

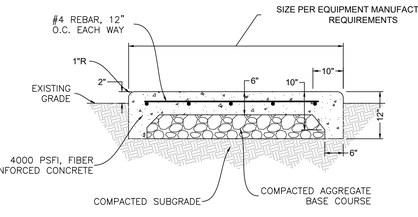
TRUNCATED DOME TACTILE - WARNING STRIP

NTS



CONCRETE STOOP

NTS



CONCRETE EQUIPMENT AND DUMPSTER PAD SECTION

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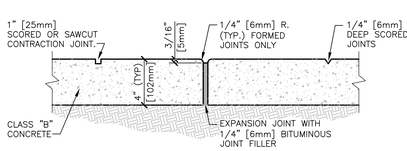
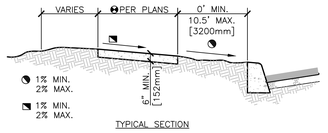


EXPANSION AND SCORED JOINT DETAIL



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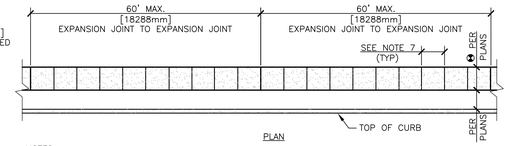

PLAN

NOTES:
1. EXPANSION JOINTS SHALL BE LOCATED WHERE SIDEWALK ABUTS CONCRETE DRIVEWAYS, CURB OR OTHER ADJACENT STRUCTURES.
2. ONE-HALF INCH BITUMINOUS JOINT FILLER SHALL BE INSTALLED AT EXPANSION JOINT LOCATIONS AND SHALL EXTEND THE FULL DEPTH OF THE CONCRETE.
3. 1" DEEP CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF APPROXIMATELY 15' [4572mm] OR AT A SPACING THAT MATCHES THE ADJACENT CURB.
4. FORMED CONTRACTION JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4" [6mm] RADIUS.
5. SCORED JOINTS SHALL BE 1/4" [6mm] DEEP AND PLACED AT THE SPACING INDICATED FOR THE WIDTH OF SIDEWALK OR MATCH SCORED JOINTS OF ADJACENT CURB.
6. CONCRETE SHALL BE FINISHED BY MEANS OF A FLOAT, STEEL TROWELLED AND BROOMED WITH A FINE BRUSH IN A TRANSVERSE DIRECTION.
7. 1/4" DEEP SCORED JOINTS (TYP) SPACED AT 6' [1829mm] OR EQUAL TO SIDEWALK WIDTH.

CONCRETE SIDEWALK

NTS

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
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CHARLOTTE ENGINEERS
5838 MONROE ROAD
CHARLOTTE, NC 28212

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GEORGIA REGISTERED No. PE041693 PROFESSIONAL LICENSED ENGINEER

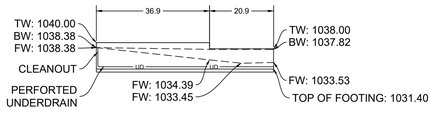
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title SITE DETAILS	**Phase** BID DOCUMENTS	**Project Title** Construct TDVV CLC 12 Beds	**Project Number** 508-349
			Building Number
Approved:	FULLY SPRINKLERED	**Location** 180 MARTIN DR, CARROLLTON, GA 30117	**Drawing Number** CS501
		Issue Date 12/16/2024 · **Checked** KJC · **Drawn** TJS	

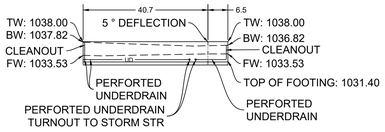
Autodesk Docs://22.9003 - VA Atlanta Tinka Davis CLC/22.9003_A_v22.rvt
8/6/2024 9:24:15 AM

VA FORM 08 - 6231



RETAINING WALL PROFILE SECTION A

NTS



RETAINING WALL PROFILE SECTION B

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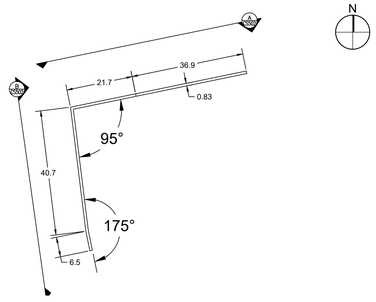
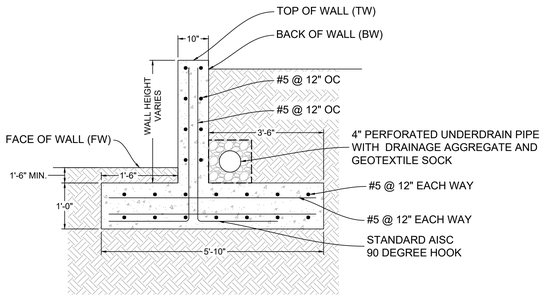


RETAINING WALL PLAN VIEW

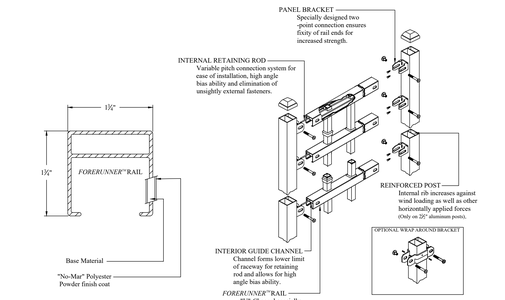
NTS

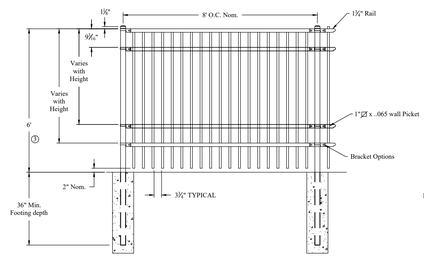


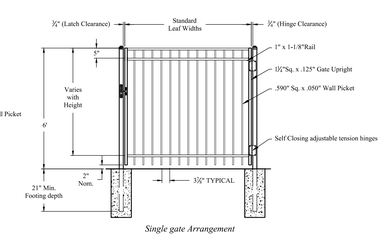
NOTES
1. 4,000 PSI CONCRETE AND GR 60 KSI REBAR
2. SURROUNDING SUBGRADE WILL NEED STRUCTURAL FILL OR LEAN CONCRETE IN AREAS OF LOW COMPACTION SOIL PRIOR TO WALL INSTALLATION
3. BOTTOM OF FOOTING IS TO BE 18" MINIMUM BELOW GRADE
4. 3" CLEAR COVER ALL DIRECTIONS
5. SEE CG101 FOR FACE OF WALL, TOP OF WALL, BACK OF WALL ELEVATIONS

RETAINING WALL

NTS







Single gate Arrangement

DECORATIVE FENCE AND GATE DETAIL

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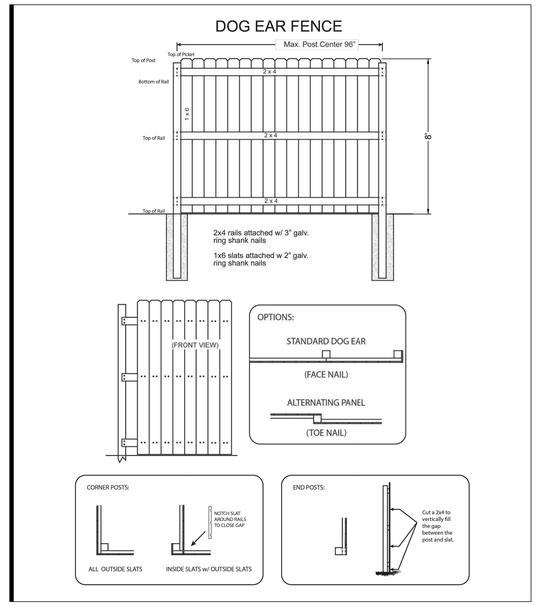

OPAQUE FENCE DETAIL

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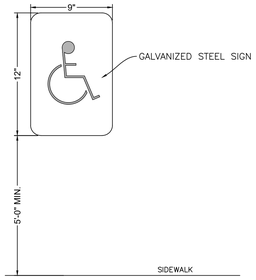
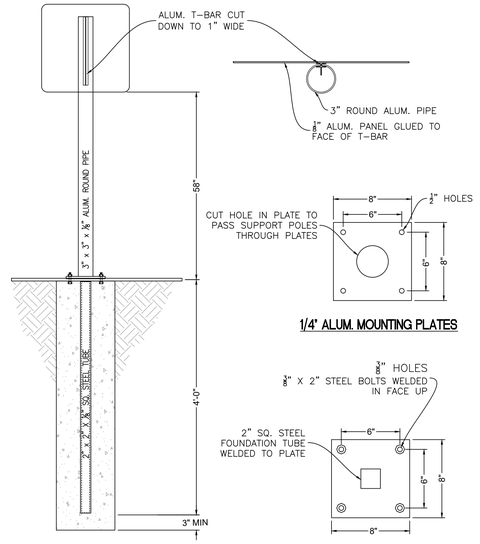


NOTES
1. ALL FACILITIES FOR THE DISABLED SHALL CONFORM WITH THE AMERICANS WITH DISABILITIES ACT AND ALL REVISIONS.
2. THE CHARACTERS AND THE BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND. LIGHT CHARACTERS ON DARK BACKGROUND ARE PREFERRED.
3. CONTRAST LEVELS OF SYMBOLS TO BACKGROUND TO BE A MINIMUM OF 70%.
4. SEE SIGN POST DETAIL FOR MOUNTING INFORMATION.

ACCESSIBLE PARKING SIGN DETAIL

NTS



SIGN POST AND FOUNDATION

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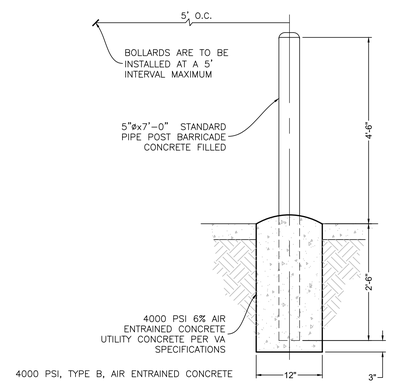

NOTES
1. BOLLARD IS TO BE PAINTED YELLOW. COLOR IS TO BE APPROVED BY COR.

CONCRETE BOLLARD

NTS

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON / CHARLOTTE ENGINEERS

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5838 MONROE ROAD
CHARLOTTE, NC 28212

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GEORGIA REGISTERED No. PE041693 PROFESSIONAL LICENSED ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SITE DETAILS	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number:
		Issue Date: 12/16/2024 / Checked: KJC / Drawn: TJS	Drawing Number: CS502

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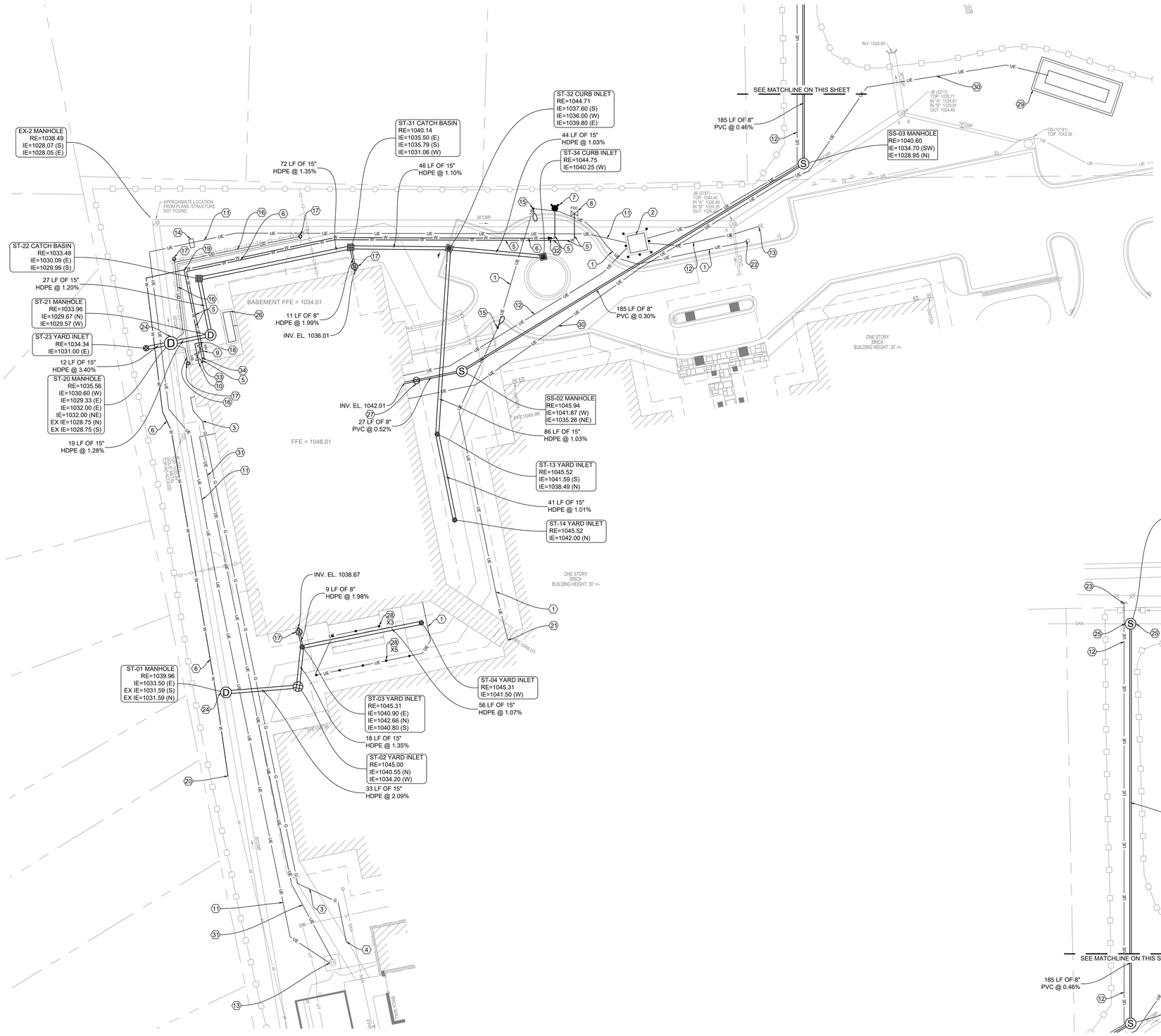

UTILITY PLAN KEYNOTES

1. ELECTRICAL CONDUIT, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
2. TRANSFORMER, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
3. NATURAL GAS SERVICE LINE, SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
4. TIE GAS LINE INTO EXISTING GAS SERVICE, SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
5. 6" WATER MAIN
6. 8" WATER MAIN
7. FIRE HYDRANT ASSEMBLY
8. FIRE DEPARTMENT CONNECTION, SEE FIRE PROTECTION DRAWINGS FOR MORE INFORMATION. FIRE DEPARTMENT CONNECTION TO HAVE SIGNAGE INDICATING NEW BUILDING.
9. BACKFLOW PREVENTION VALVE
10. 2" WATER SERVICE LINE, SEE PLUMBING DRAWINGS FOR MORE INFORMATION.
11. REPLACE EXISTING PRIMARY ELECTRICAL DUCT BANK, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
12. SECONDARY ELECTRICAL DUCT BANK, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
13. TIE PRIMARY ELECTRICAL DUCT BANK INTO EXISTING TRANSFORMER, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
14. ELECTRICAL UTILITY CABINET, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
15. RELOCATED LIGHT POLE WITH NEW FOUNDATION, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION
16. 4" PERFORATED UNDERDRAIN
17. STORMWATER CLEANOUT
18. 6"X2" WATER TEE
19. 8"X6" WATER TEE
20. TIE 8" WATER LINE INTO EXISTING WATER SERVICE
21. TIE ELECTRICAL CONDUIT INTO EXISTING BUILDING'S EXISTING SITE LIGHTING POWER SOURCE. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
22. TIE ELECTRICAL CONDUIT INTO EXISTING SITE LIGHTING, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
23. SECONDARY ELECTRICAL SERVICE BROUGHT TO SITE, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION. COORDINATE WITH LOCAL ELECTRICAL UTILITY.
24. TIE EXISTING STORM SEWER INTO NEW STORMWATER STRUCTURE
25. TIE EXISTING 8" SANITARY SEWER INTO NEW SANITARY STRUCTURE
26. MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
27. SANITARY CLEANOUT
28. DECORATIVE BOLLARD WITH LIGHT, SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
29. GENERATOR ENCLOSURE, SEE STRUCTURAL, ARCHITECTURAL, AND MECHANICAL DRAWINGS FOR MORE INFORMATION.
30. EMERGENCY POWER ELECTRICAL SERVICE, SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
31. PRIMARY ELECTRICAL SERVICE, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
32. 8"X6" WATER REDUCER
33. RPZ VALVE
34. 6"X6" WATER TEE

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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CHARLOTTE, NC 28212

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GEORGIA REGISTERED No. PE041693 PROFESSIONAL LICENSED ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	UTILITY PLAN
Phase	BID DOCUMENTS
Project Title	Construct TDVV CLC 12 Beds
Project Number	508-349
Building Number	
Approved:	
	FULLY SPRINKLERED
Location	180 MARTIN DR, CARROLLTON, GA 30117
Issue Date	12/16/2024
Checked	KJC
Drawn	TJS
Drawing Number	CU101

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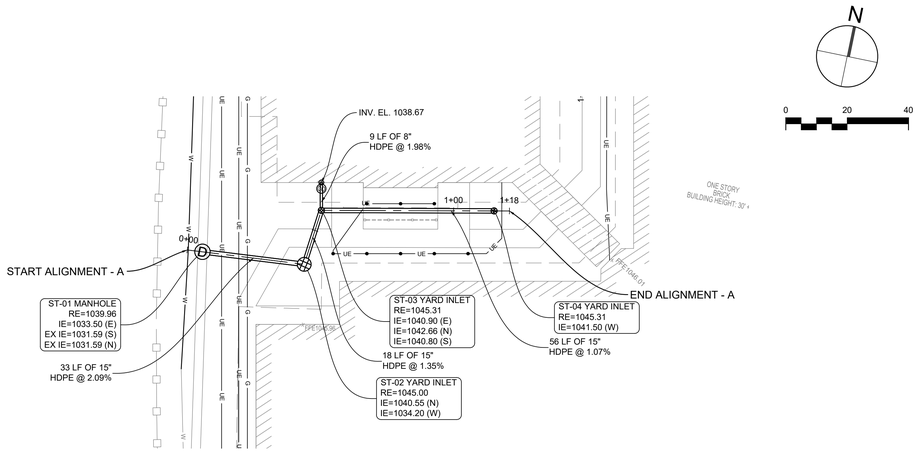

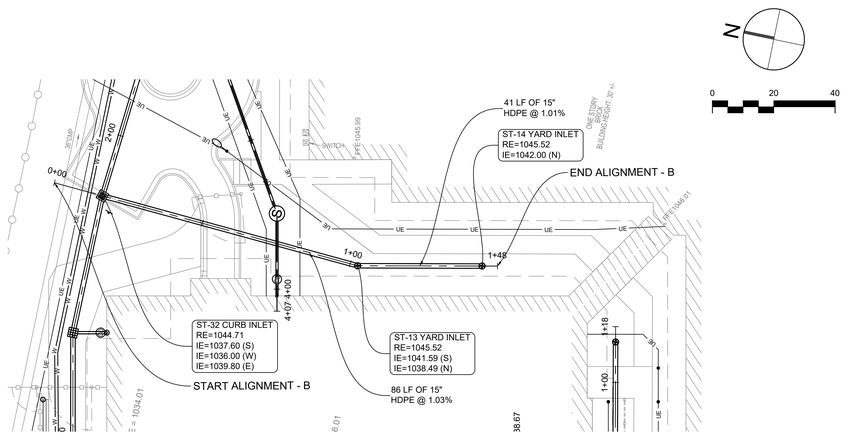

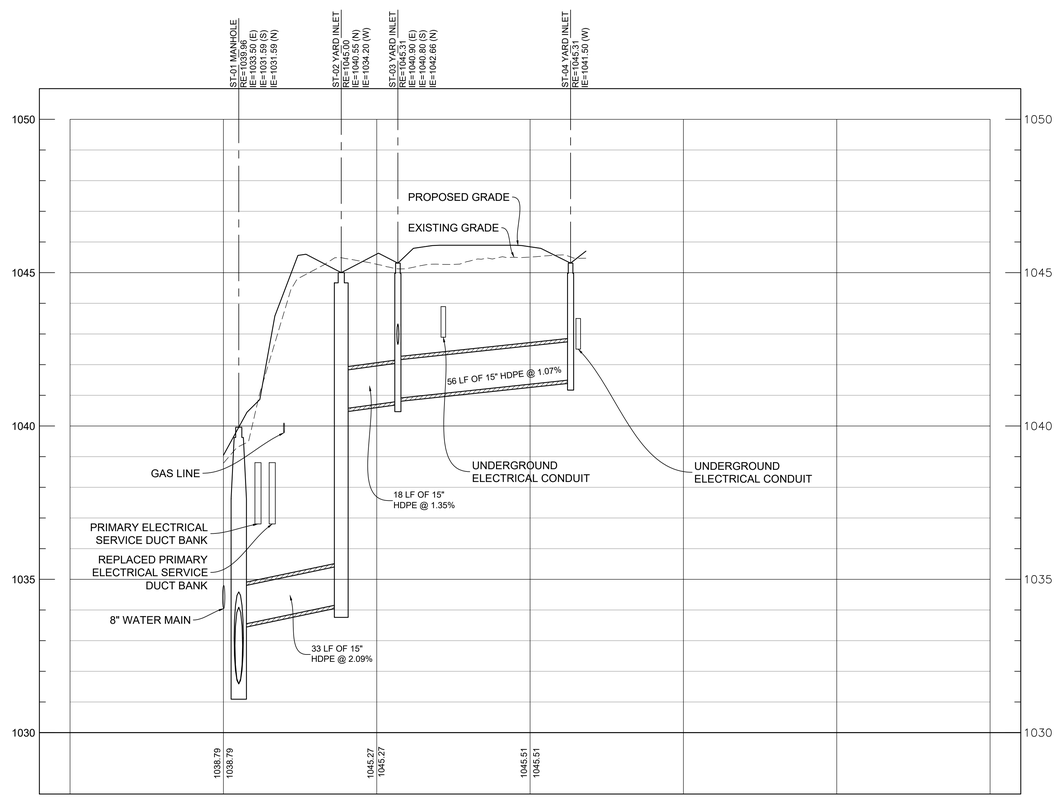

ALIGNMENT - A PROFILE
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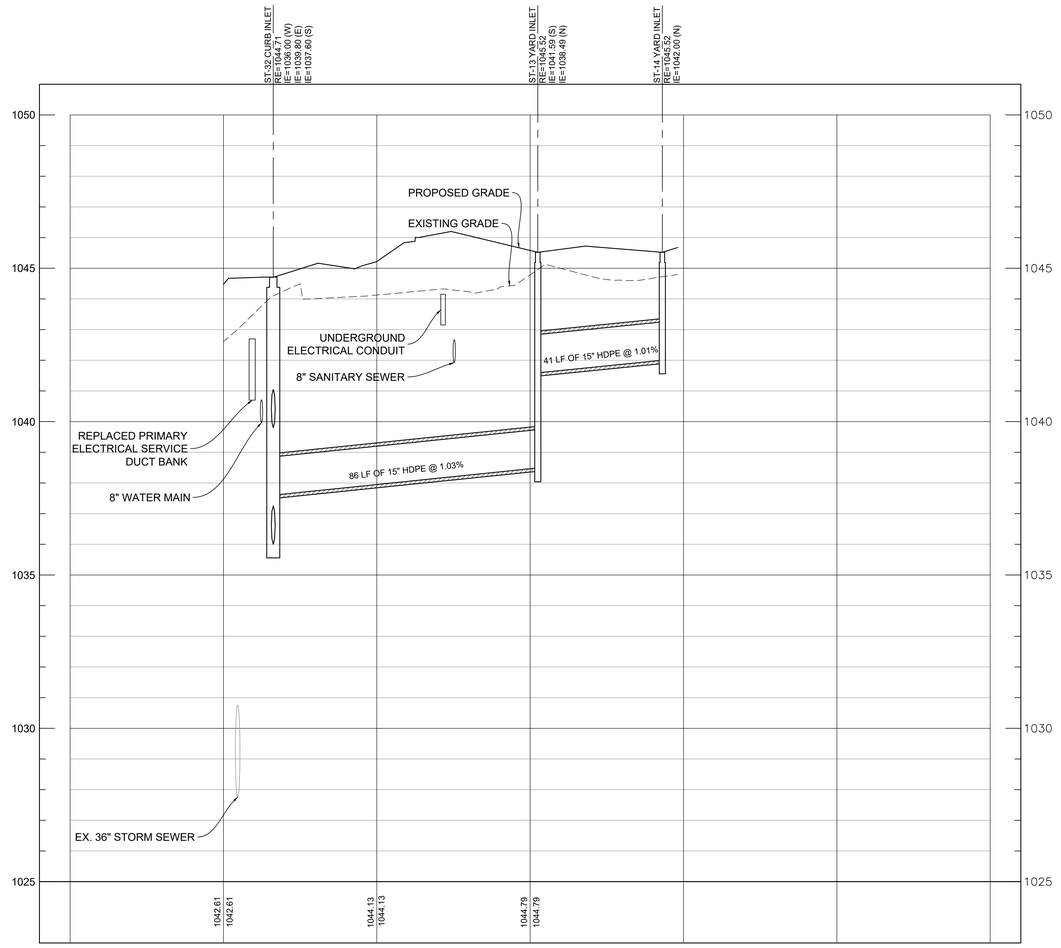
VERT. SCALE 1" = 2'



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Revisions:	Date:

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CHARLOTTE, NC 28212

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GEORGIA REGISTERED No. PE041693 PROFESSIONAL LICENSED ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	STORMWATER PROFILES
Approved:	
Phase	BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	Construct TDVV CLC 12 Beds
Location	180 MARTIN DR, CARROLLTON, GA 30117
Issue Date	12/16/2024
Checked	KJC
Drawn	TJS
Project Number	508-349
Building Number	
Drawing Number	CU201

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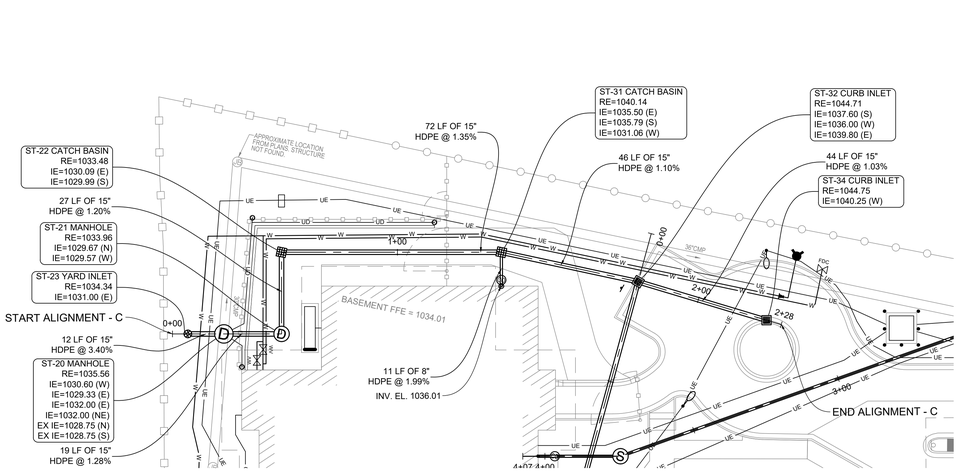

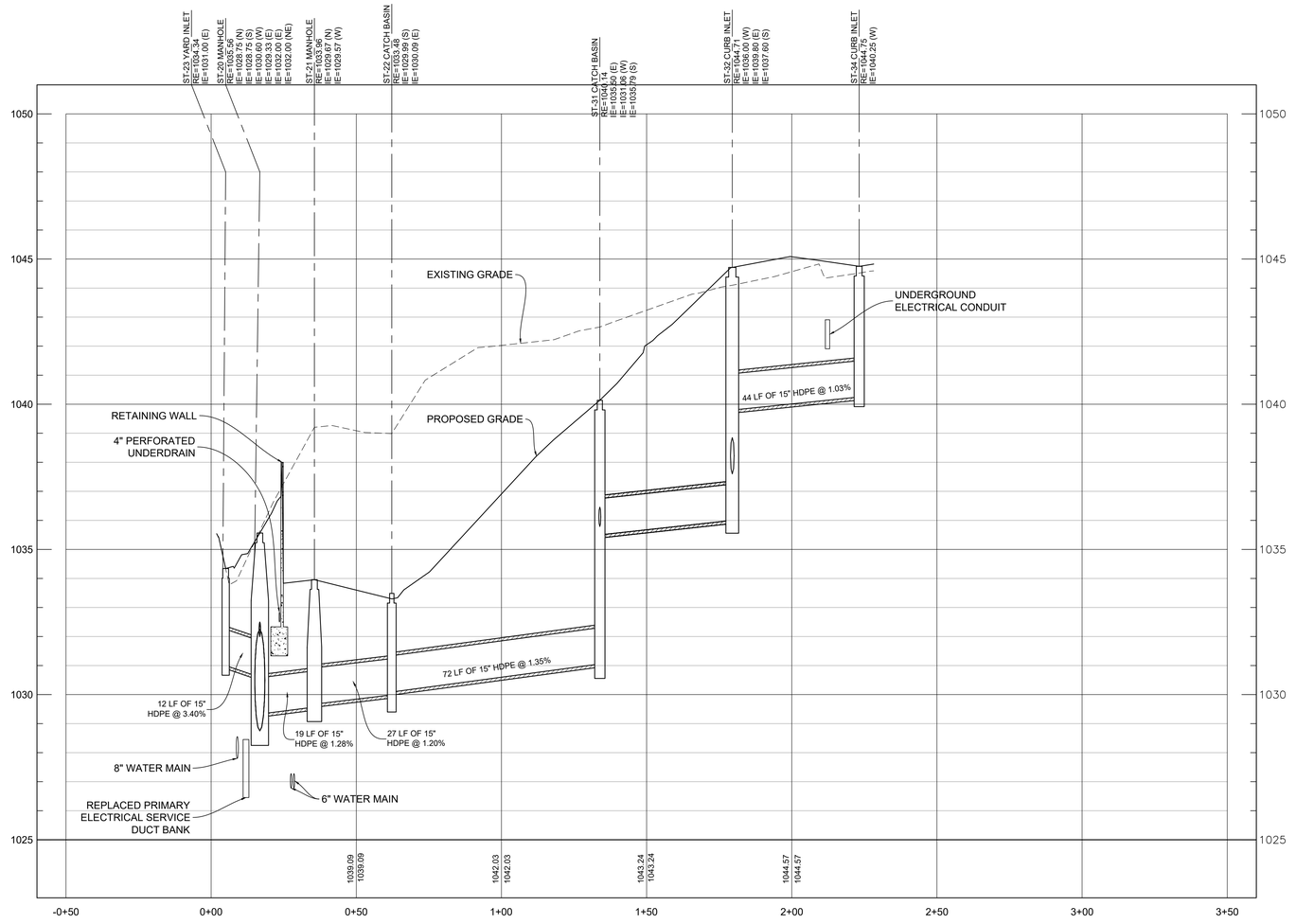

ALIGNMENT - C PROFILE

HOR. SCALE 1" = 20'

VERT. SCALE 1" = 2'

Revisions:	Date:

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GEORGIA REGISTERED No. PE041693 PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	STORMWATER PROFILES
Phase	BID DOCUMENTS
Project Title	Construct TDVV CLC 12 Beds
Project Number	508-349
Building Number	
Approved:	
	FULLY SPRINKLERED
Location	180 MARTIN DR, CARROLLTON, GA 30117
Issue Date	12/16/2024
Checked	KJC
Drawn	TJS
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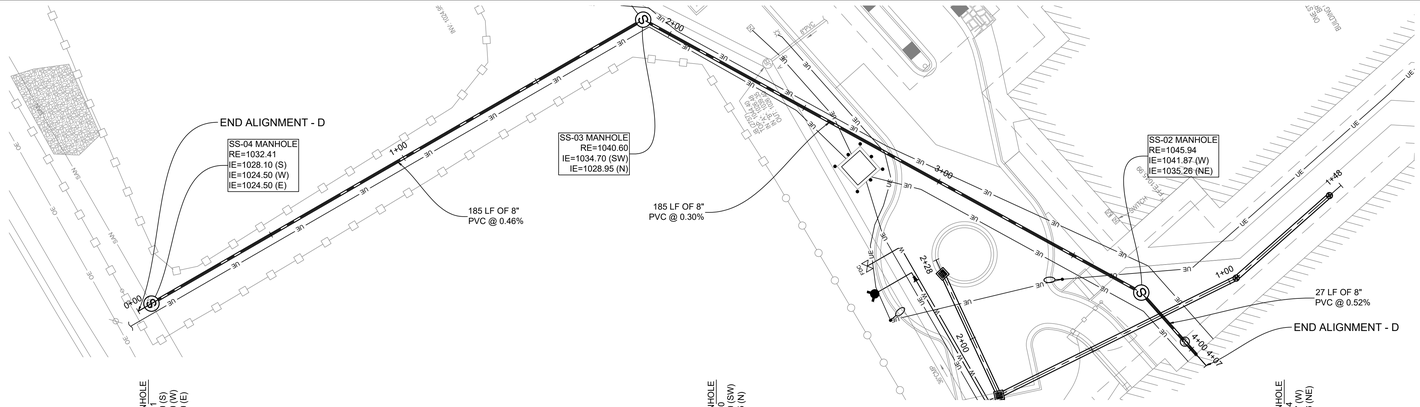

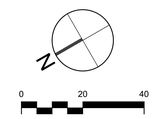

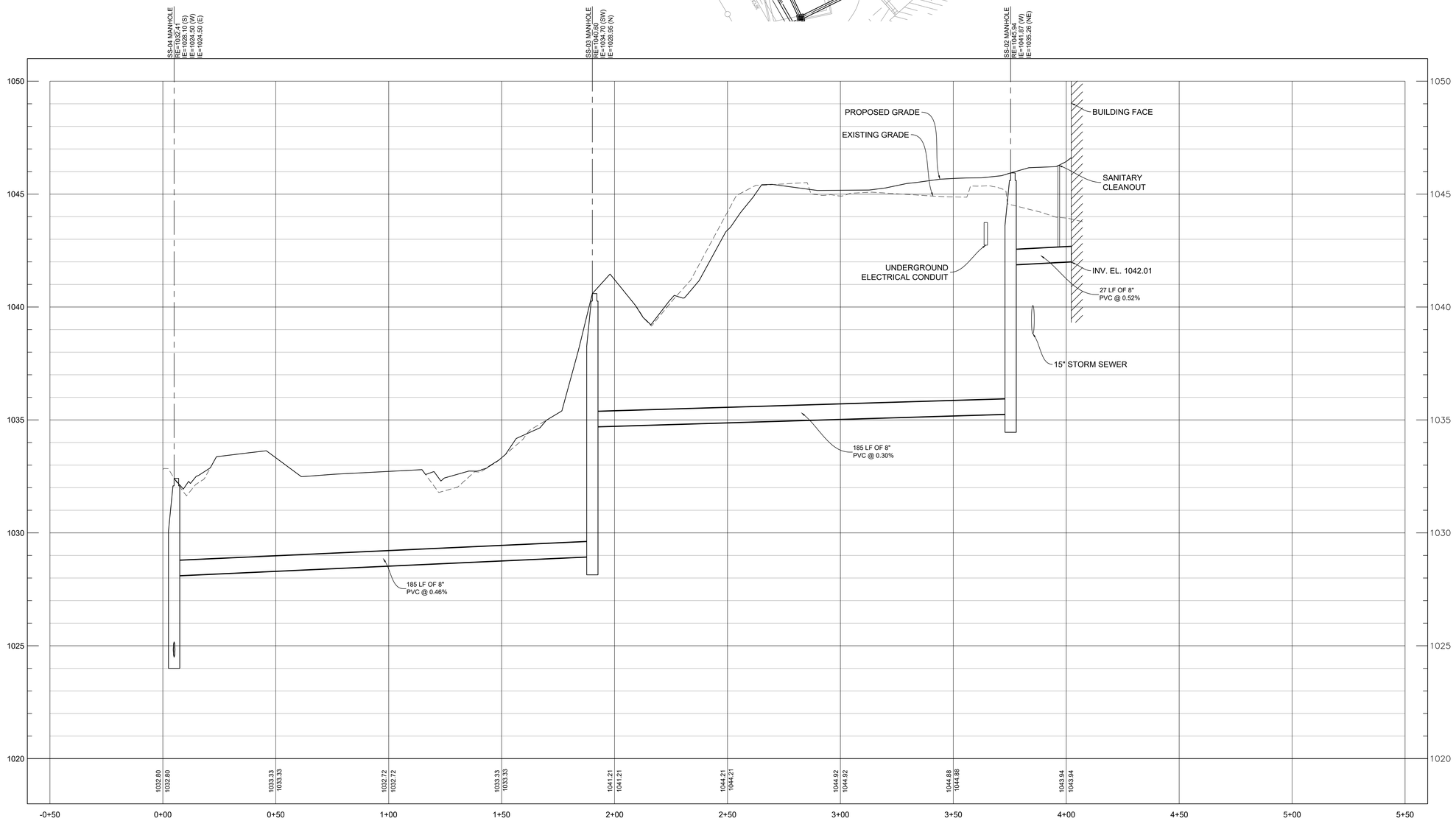

ALIGNMENT - D PROFILE

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VERT. SCALE 1" = 2'

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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GEORGIA REGISTERED No. PE041693 PROFESSIONAL LICENSED ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SANITARY PROFILE	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 / Checked: KJC / Drawn: TJS	Drawing Number: CU203

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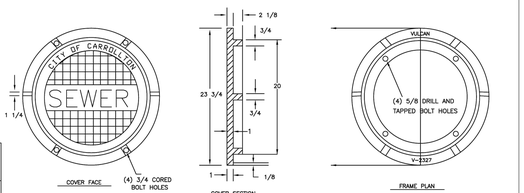
WATERTIGHT RING AND COVER



VULCAN FOUNDRY,INC. POST OFFICE BOX 905 DENHAM SPRINGS, LA. 70726
CALL **HIGGINS FOUNDRY & SUPPLY CO., INC.** POST OFFICE BOX 813159 SMYRNA, GEORGIA 30081 (404) 436-7300 FAX (404) 434-1437
PREVIOUS PATTERN VM-360 WATERTIGHT
LOAD RATING HEAVY DUTY
MATERIAL SPECIFICATION ASTM A 48 CLASS 30
OPEN AREA - SQ. IN. N/A
ESTIMATED WEIGHT - LBS. COVER 135 FRAME 225 TOTAL 360
PATTERN BREAKDOWN V-2327 COVER V-2327 FRAME WATERTIGHT
CATALOG NUMBER **V - 2327 - 1**

Carrollton

City of Carrollton – P.O. Box 1949, Carrollton, Georgia 30112 – Telephone 770-830-2000 City Hall

FIG. 3S JUNE 2017

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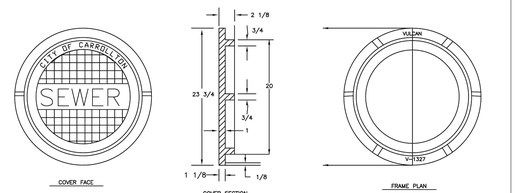

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PREVIOUS PATTERN VM-360
LOAD RATING HEAVY DUTY
MATERIAL SPECIFICATION ASTM A 48 CLASS 30
OPEN AREA - SQ. IN. N/A
ESTIMATED WEIGHT - LBS. COVER 135 FRAME 225 TOTAL 360
PATTERN BREAKDOWN V-1327 COVER V-1327 FRAME
CATALOG NUMBER **V - 1327 - 1**

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FIG. 3S JUNE 2017

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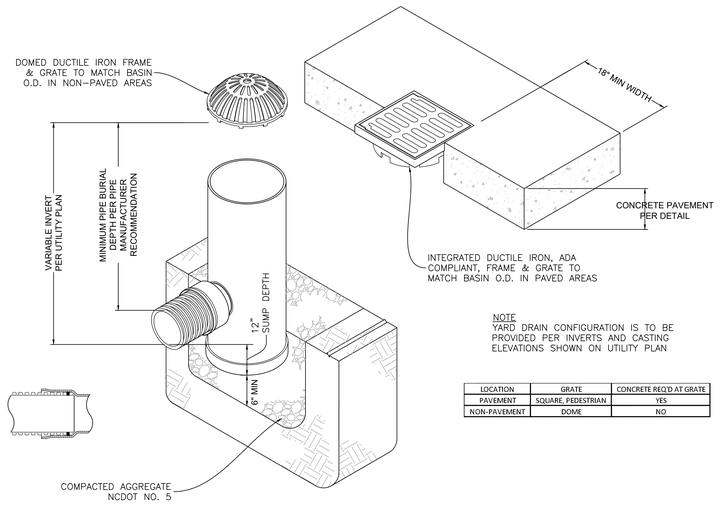
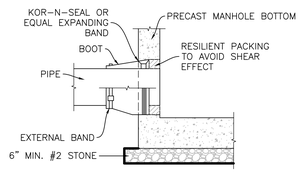


NOTE
YARD DRAIN CONFIGURATION IS TO BE PROVIDED PER INVERTS AND CASTING ELEVATIONS SHOWN ON UTILITY PLAN

LOCATION	GRATE	CONCRETE REQ'D AT GRATE
PAVEMENT	SQUARE, PEDESTRIAN	YES
NON-PAVEMENT	DOME	NO

12" CATCH BASIN

NTS



PIPE CONNECTION TO MANHOLE

NTS

FIG. 6S JUNE 2017

INVERT DETAIL

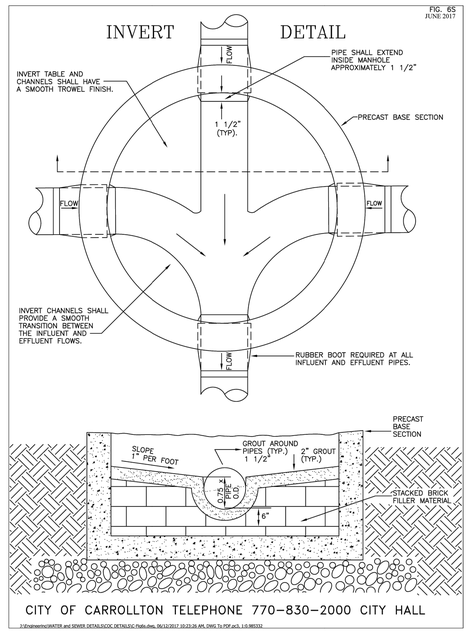


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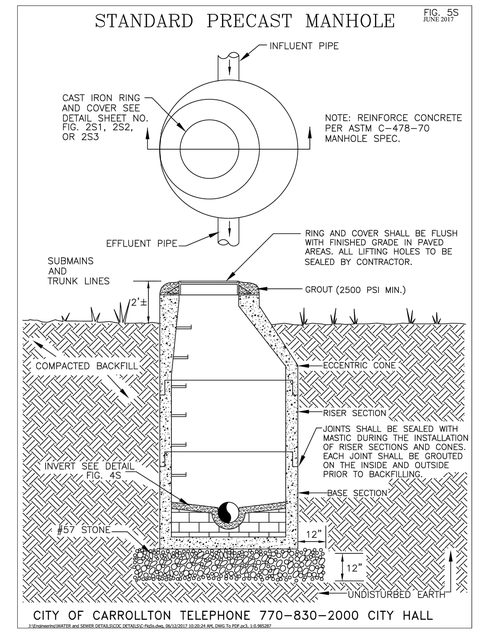
FIG. 5S JUNE 2017

STANDARD PRECAST MANHOLE



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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: UTILITY DETAILS	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 / Checked: KJC / Drawn: TJS	Drawing Number: CU501

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WATERSTOP COLLAR DETAIL

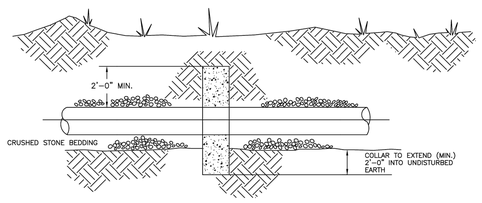

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FIG. 10S
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FIG. 3
JUNE 2017

FIRE HYDRANT DETAIL

UTILIZING HYDRANT TEE AND ANCHOR COUPLING

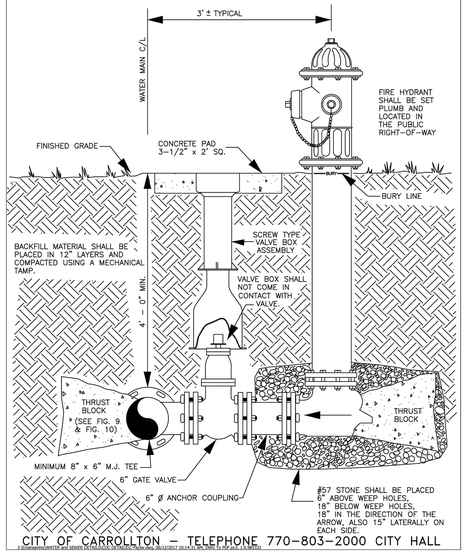

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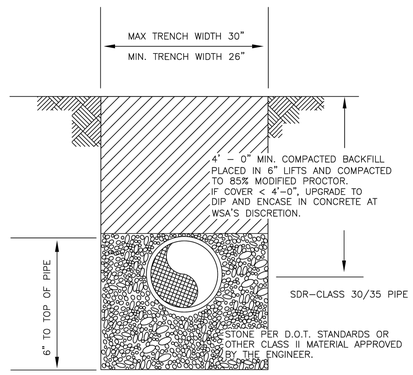
FIG. 13S
JUNE 2017

TYPICAL PVC PIPE BEDDING DETAILS



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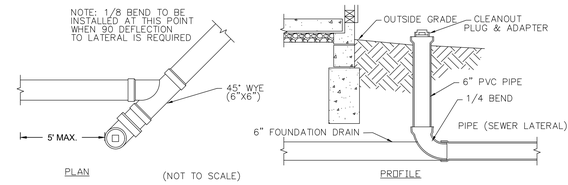
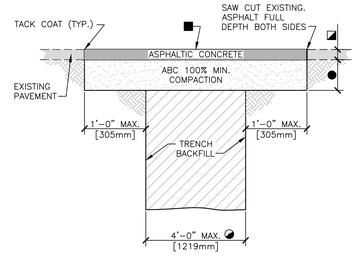


CLEANOUT

NTS



◒ FOR TRENCH WIDTHS EXCEEDING 4' [1219mm] REFER TO VA STANDARD DETAIL 32 12 16-02 "TYPE 2 UTILITY TRENCH PATCH". FOR TRENCH WHERE PORTLAND CEMENT CONCRETE (PCC) PAVEMENT EXISTS, REFER TO 32 12 16-03 "TYPE 3 UTILITY TRENCH PATCH".

◪ 2" [50mm] MINIMUM OR THICKNESS OF EXISTING PAVEMENT WHICHEVER IS GREATER.

■ BITUMINOUS SURFACE TREATMENT (CHIPSEAL) REQUIRED ONLY FOR LONGITUDINAL TRENCHES WITH WIDTHS GREATER THAN 6' [1829mm].

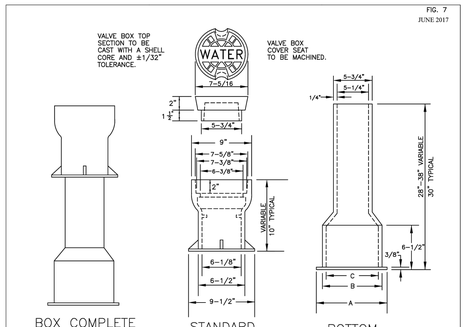
● 4" [100mm] MINIMUM ABC OR THICKNESS OF EXISTING GRANULAR BASE COURSE MATERIALS (E.G. ABC & SELECT MATERIAL) WHICHEVER IS GREATER.

REFER TO VA STANDARD DETAIL 32 12 16-04 "UTILITY TRENCH PAVEMENT PATCH NOTES" FOR ADDITIONAL INFORMATION.

TYPE 1 UTILITY TRENCH PATCH

NTS

FIG. 7
JUNE 2017



BOTTOM SECTION	A	B	C
4'-6"	9"	8"	7"
8"	9-1/2"	8-1/2"	7-1/2"
10"-12"	10-1/4"	9"	8"

NOTES:

1. UNLESS NOTED OTHERWISE, CAST IRON SHALL CONFORM TO ASTM SPECIFICATIONS A48 LATEST REVISION FOR CLASS 20 GREY IRON CASTINGS.
2. CASTINGS SHALL BE TRUE AND FREE OF HOLES. THEY SHALL BE CLEANED ACCORDING TO GOOD FOUNDRY PRACTICE, AND GROUND AS NEEDED TO REMOVE FINS AND ROUGH PLACES.
3. FINISHED CASTINGS SHALL BE COATED INSIDE AND OUTSIDE WITH COAL TAR PITCH VARNISH AS INDICATED IN AWWA SPECIFICATIONS C110 LATEST REVISION. COATING MAY BE APPLIED COLD AND SHALL THOROUGHLY COVER ALL METAL SURFACES. FINISHED COATING SHALL BE SMOOTH, GLOSSY, NOT BRITTLE WHEN COLD, NOT STICKY WHEN EXPOSED TO THE SUN, AND SHALL ADHERE TO THE METAL AT ALL TEMPERATURES.
4. WHEN COATING IS COMPLETE, LID SHALL FIT SNUGLY WITHOUT ROCKING.

TYPICAL 4"-12" SCREW TYPE VALVE BOX ASSEMBLIES

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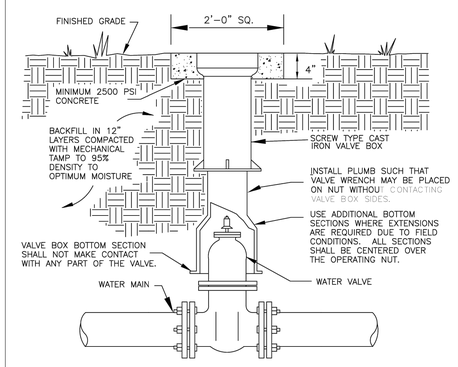
FIG. 8
JUNE 2017

TYPICAL VALVE BOX INSTALLATION



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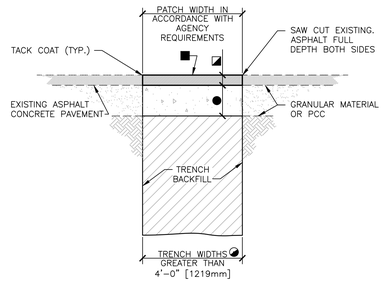

◒ FOR TRENCH WIDTHS 4' [1219mm] OR LESS REFER TO VA STANDARD DETAIL 32 12 16-01 "TYPE 1 UTILITY TRENCH PATCH". FOR TRENCH WHERE PORTLAND CEMENT CONCRETE (PCC) PAVEMENT EXISTS, REFER TO 32 12 16-03 "TYPE 3 UTILITY TRENCH PATCH".

◪ 2" [50mm] MINIMUM OR THICKNESS OF EXISTING PAVEMENT WHICHEVER IS GREATER.

■ BITUMINOUS SURFACE TREATMENT (CHIPSEAL) REQUIRED ONLY FOR LONGITUDINAL TRENCHES WITH WIDTHS GREATER THAN 6' [1829mm].

● 4" [100mm] MINIMUM ABC OR THICKNESS OF EXISTING GRANULAR BASE COURSE MATERIALS (E.G. ABC & SELECT MATERIAL) WHICHEVER IS GREATER.
PORTLAND CEMENT CONCRETE (PCC) THICKNESS EQUAL TO EXISTING.

REFER TO VA STANDARD DETAIL 32 12 16-04 "UTILITY TRENCH PAVEMENT PATCH NOTES" FOR ADDITIONAL INFORMATION.

TYPE 2 UTILITY TRENCH PATCH

NTS

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VA U.S. Department of Veterans Affairs

Drawing Title	UTILITY DETAILS
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Phase	BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	Construct TDVV CLC 12 Beds
Location	180 MARTIN DR, CARROLLTON, GA 30117
Issue Date	12/16/2024
Checked	KJC
Drawn	TJS
Project Number	508-349
Building Number	
Drawing Number	CU502

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GRADING PLAN LEGEND

MATCH EXISTING GRADE	M.E.G.
SPOT ELEVATION	640.00
TOP OF CURB EDGE OF PAVEMENT	TC 643.50 EP 643.00
TOP OF CURB GUTTER	TC 643.50 GU 643.00
PROPOSED MINOR CONTOUR	101
PROPOSED MAJOR CONTOUR	100

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Phase	BID DOCUMENTS
Project Title	Construct TDVV CLC 12 Beds
Project Number	508-349
Building Number	
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	FULLY SPRINKLERED
Location	180 MARTIN DR, CARROLLTON, GA 30117
Drawing Number	CG101
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Checked	KJC
Drawn	TJS

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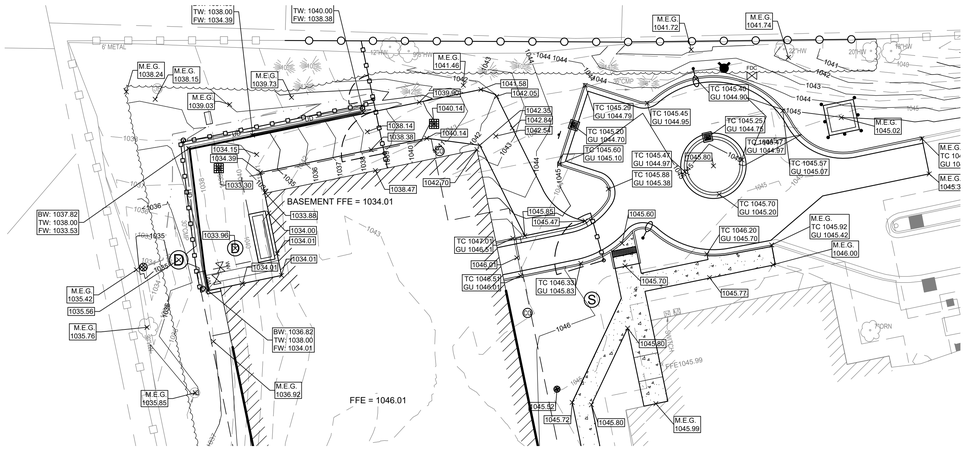
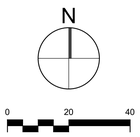


GRADING PLAN - DEDUCT C



GRADING PLAN LEGEND

MATCH EXISTING GRADE	M.E.G.
SPOT ELEVATION	640.00
TOP OF CURB EDGE OF PAVEMENT	TC 643.50 EP 643.00
TOP OF CURB GUTTER	TC 643.50 GU 643.00
PROPOSED MINOR CONTOUR	101
PROPOSED MAJOR CONTOUR	100

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Project Title	Construct TDVV CLC 12 Beds
Location	180 MARTIN DR, CARROLLTON, GA 30117
Issue Date	12/16/2024
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Project Number	508-349
Building Number	
Drawing Number	CG102

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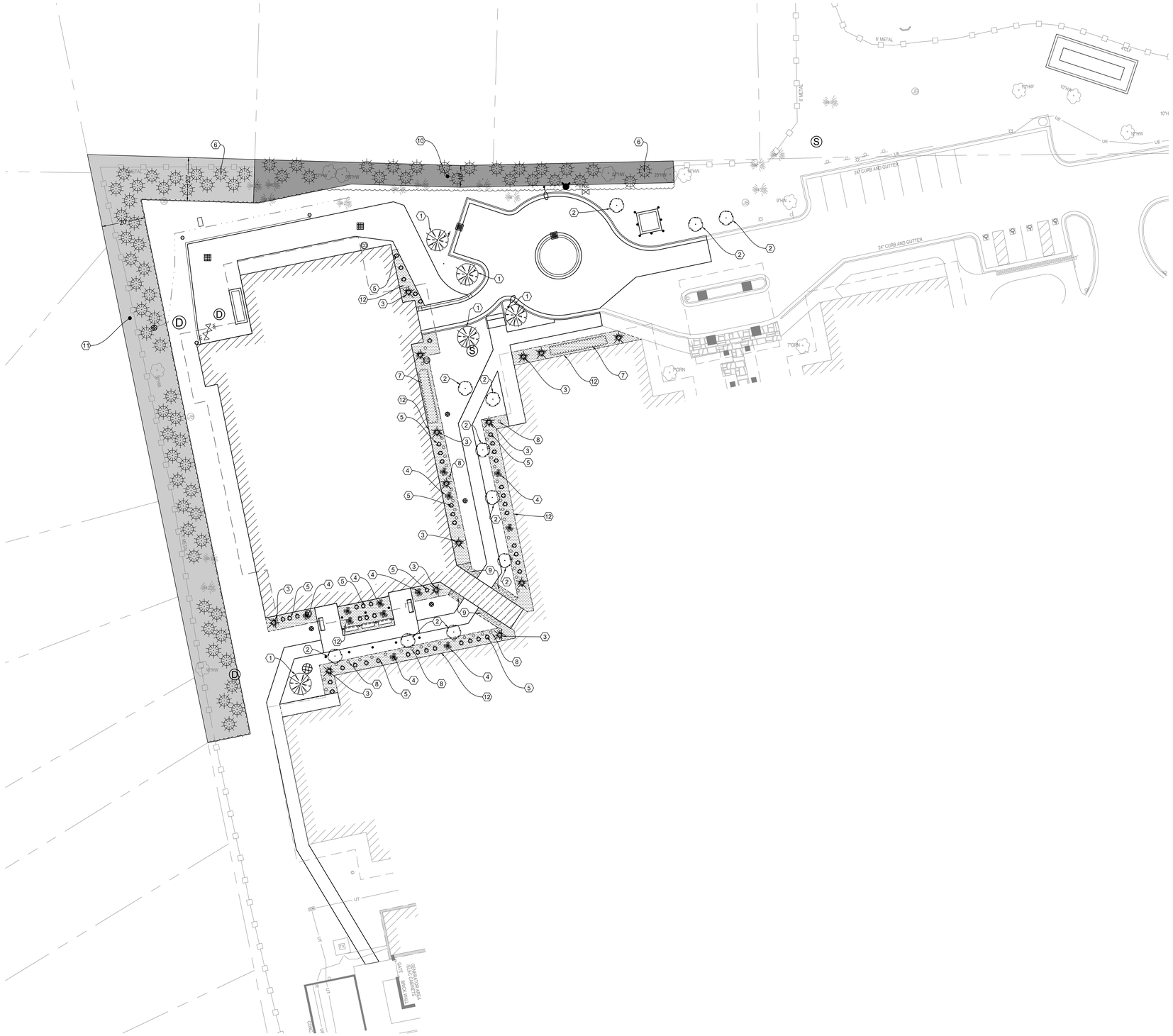

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LANDSCAPE KEYNOTES

	SCIENTIFIC NAME/COMMON NAME	QTY.	GAL.	SPACING
1.	WILLOW OAK	5	10	40' O.C.
2.	ATUMNNALIS CHERRY	11	5	20' O.C.
3.	FOSTER HOLLY	13	5	5' O.C.
4.	FORTUNES OSMANTHUS	12	3	4' O.C.
5.	INDIAN HAWTHORN	48	3	24" O.C.
6.	LOBLOLLY PINE	72	3	3' O.C.
7.	DWARF YAUPON	21	3	2' O.C.
8.	BLUSH LOROPETALUM	47	10	10' O.C.
9.	FLOWER BED	--	--	--
10.	10' VEGETATION BUFFER ZONE (DENSE TREE AND BUSH PLANTING)	--	--	--
11.	20' VEGETATION BUFFER ZONE (DENSE TREE AND BUSH PLANTING)	--	--	--
12.	MULCHED LANDSCAPED GARDEN BED	--	--	--

DEDUCT B:

ELIMINATE THE TREE AND SHRUB PLANTING AREAS ALONG THE TURNAROUND. ELIMINATE THE TREE, SHRUB, AND FLOWER BED AREAS IN BETWEEN THE NEW BUILDING AND EXISTING BUILDING ON BOTH THE EAST AND SOUTH SIDE OF THE NEW BUILDING. THE NEW TREES AND SHRUBS TO BE INSTALLED WITHIN THE 10' AND 20' BUFFER ZONE ALONG THE PROPERTY LIMITS TO THE WEST AND NORTH OF THE BUILDING ARE TO REMAIN; THEY ARE NOT TO BE ELIMINATED IF THIS ALTERNATE IS ACCEPTED.

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Location	180 MARTIN DR, CARROLLTON, GA 30117
Issue Date	12/16/2024
Checked	KJC
Drawn	TJS
Project Number	508-349
Building Number	
Drawing Number	LP101

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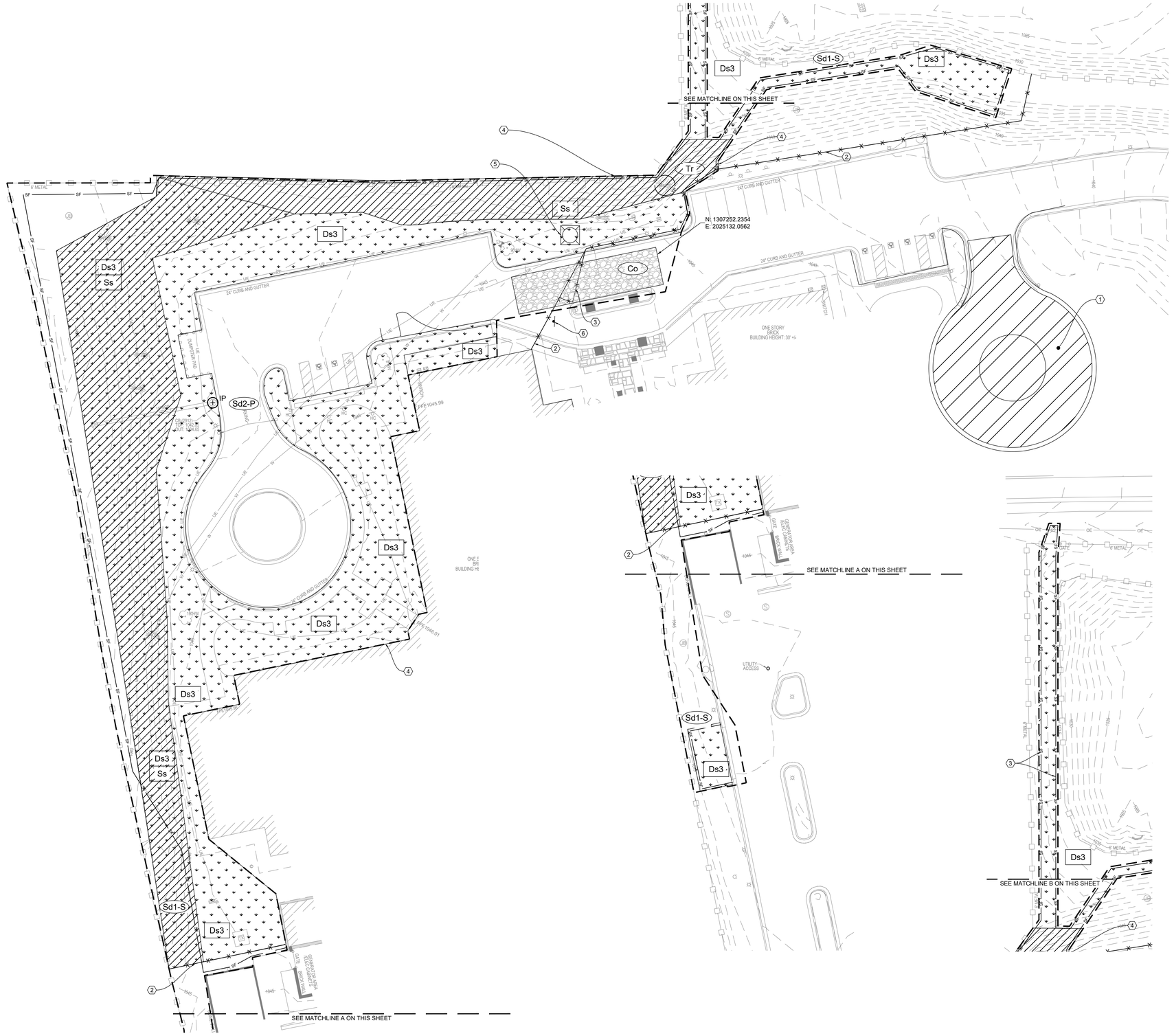

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EROSION CONTROL PLAN KEYNOTES

1. STAGING AND LAYDOWN AREA
2. CONSTRUCTION FENCE
3. CONSTRUCTION GATE
4. LIMITS OF DISTURBANCE
5. CONCRETE WASHOUT
6. CONSTRUCTION AND SAFETY SIGNAGE

ESPCP NOTES

1. MINIMIZE SOIL COMPACTION TO PROTECT TREE ROOTS.

EROSION CONTROL VEGETATIVE PRACTICE		
GSWCC CODE	SYMBOL	DESCRIPTION
Ds3		DISTURBED AREA STABILIZATION (WITH SEEDING)
Ss		SLOPE STABILIZATION BLANKET AND MATTING (WITH SEEDING)

EROSION CONTROL STRUCTURAL PRACTICE		
GSWCC CODE	SYMBOL	DESCRIPTION
Co		CONSTRUCTION EXIT
Sd1-S	SF	SILT FENCE - TYPE SENSITIVE
Tr	TP TP	TREE PROTECTION
Sd2-P	IP	CURB INLET PROTECTION
Sd2-B	IP	BAFFLE BOX

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

8/19/2024 — DATE

DESIGN PROFESSIONAL'S SIGNATURE

6/20/2026 — EXP. DATE

0000080861 — LEVEL II CERTIFICATION NUMBER

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Drawing Title: EROSION CONTROL PLAN INITAIL	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:			Building Number
	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Drawing Number: CJ101
		Issue Date: 12/16/2024 / Checked: KJC / Drawn: TJS	

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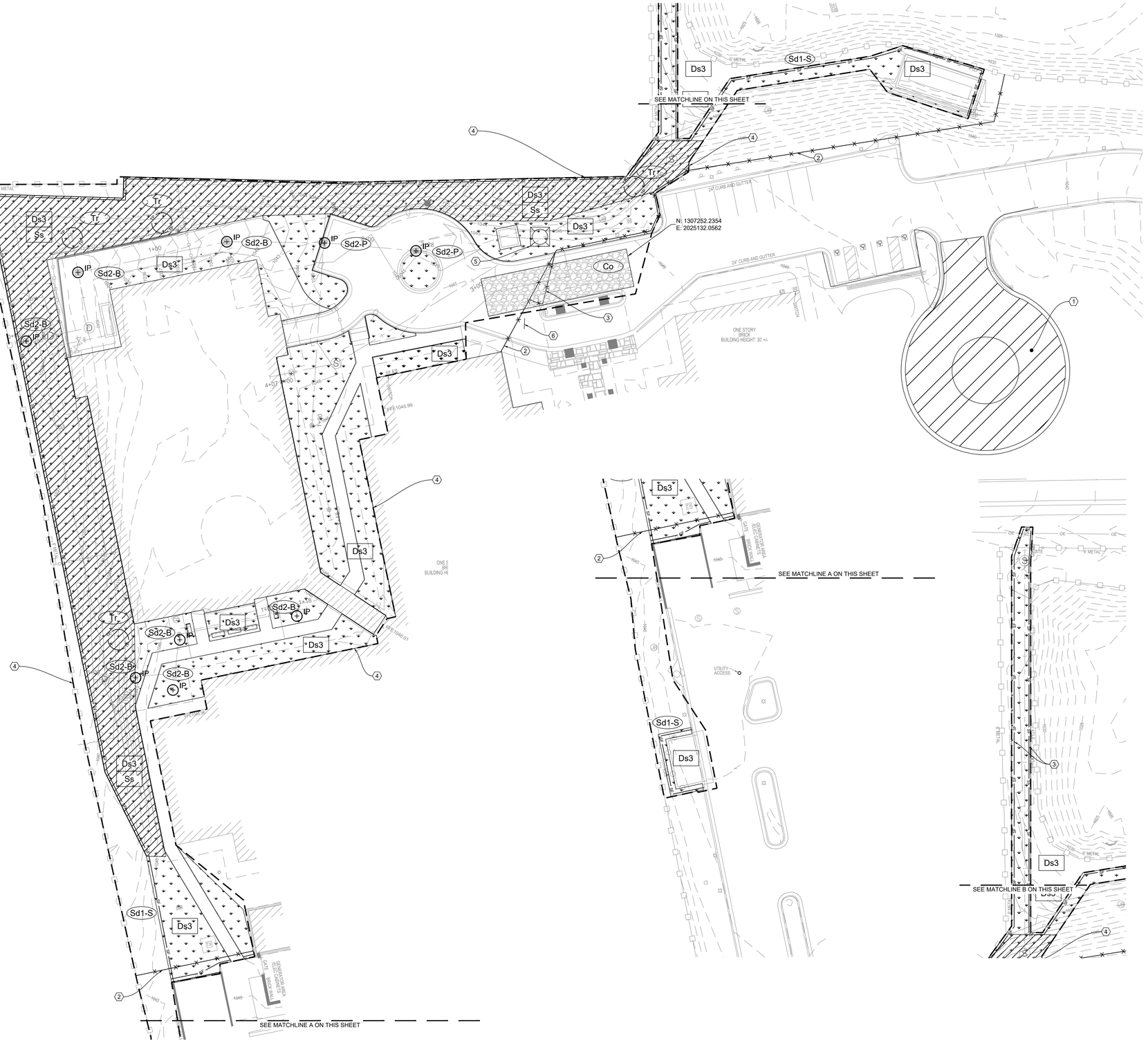

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EROSION CONTROL PLAN KEYNOTES

1. STAGING AND LAYDOWN AREA
2. CONSTRUCTION FENCE
3. CONSTRUCTION GATE
4. LIMITS OF DISTURBANCE
5. CONCRETE WASHOUT
6. CONSTRUCTION AND SAFETY SIGNAGE

ESPCP NOTES

1. MINIMIZE SOIL COMPACTION TO PROTECT TREE ROOTS.

EROSION CONTROL VEGETATIVE PRACTICE		
GSWCC CODE	SYMBOL	DESCRIPTION
Ds3		DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
Ss		SLOPE STABILIZATION BLANKET AND MATTING

EROSION CONTROL STRUCTURAL PRACTICE		
GSWCC CODE	SYMBOL	DESCRIPTION
Co		CONSTRUCTION EXIT
Sd1-S	SF	SILT FENCE - TYPE SENSITIVE
Tr	TP TP	TREE PROTECTION
Sd2-P	IP	CURB INLET PROTECTION
Sd2-B	IP	BAFFLE BOX

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: EROSION CONTROL PLAN FINAL	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:			Building Number
	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Drawing Number: CJ102
		Issue Date: 12/16/2024 / Checked: KJC / Drawn: TJS	

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VA FORM 08 - 6231

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

SWCD:_____

Project Name:_____ **Address:**_____
Local Issuing Authority:_____ **Date on Plans:**_____
Name & Email of person filling out checklist:_____

Plan Page #	Included Y/N	
		1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
		2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)
		3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. * (A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.)
		4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
		5 Provide the name, address, email address, and phone number of primary permittee.
		6 Note total and disturbed acreages of the project or phase under construction.
		7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
		8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
		9 Description of the nature of construction activity and existing site conditions.
		10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
		11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
		12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on **Part IV page 19** of the permit.
		13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on **Part IV page 19** of the permit. *
		14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." in accordance with **Part IV.A.5 page 25** of the permit. *
		15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
		16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
		17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
		18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
		19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
		20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
		21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
		22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
		23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
		24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
		25 Provide BMPs for the remediation of all petroleum spills and leaks.
		26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
		27 Description of practices to provide cover for building materials and building products on site. *
		28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
		29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
		30 Provide complete requirements of Inspections and record keeping by the primary permittee. *
		31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
		32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *
		33 Description of analytical methods to be used to collect and analyze the samples from each location. *
		34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
		35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged. *
		36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *
		37 Graphic scale and North arrow.
		38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2,5 or 10

		39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
		40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
		41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
		42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
		43 Delineation and acreage of contributing drainage basins on the project site.
		44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
		45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
		46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
		47 Soil series for the project site and their delineation.
		48 The limits of disturbance for each phase of construction.
		49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
		50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
		51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
		52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia.

* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

Effective January 1, 2024

CONSTRUCTION SCHEDULE

ACTIVITY	JAN. 2018	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
INITIAL PERIMETER AND SEDIMENT STORAGE BMPs												
CLEARING AND GRUBBING												
EROSION CONTROL DEVICES												
GRADING												
TEMPORARY VEGETATION												
BASE												
INFRASTRUCTURE CONSTRUCTION (INCLUDING UTILITIES)												
PAVING												
FINE GRADING AND LANDSCAPING												
PERMENANT VEGETATION												
REMOVE TEMP. EROSION CONTROL												
MAINTENANCE OF BMPs												

ESPCP GENERAL INFORMATION

CERTIFIED DESIGN PROFESSIONAL: KYLE CYR, PE

LEVEL II CERTIFICATION NUMBER: 0000080861

PRIMARY PERMITEE CONTACT: ADAM DOTY
(404) 889-7966
180 MARTIN DRIVE
CARROLLTON, GA 30117

PRIMARY LOCAL CONTACT: ADAM DOTY
(RESPONSIBLE FOR ESPCP CONTROLS)
180 MARTIN DRIVE
CARROLLTON, GA 30117

PROJECT TITLE AND LOCATION: CONSTRUCT TVDD CLC 12 BEDS, TRINKA DAVIS VETERANS VILLAGE
(SEE VICINITY MAP ABOVE)
180 MARTIN DRIVE
CARROLLTON, GA 30117

PROJECT DESCRIPTION:

EXISTING SITE

THE EXISTING SITE FOR THE PROPOSED CLINIC BUILDING IS LOCATED IN THE NORTHWEST CORNER OF THE TRINKA DAVIS VETERANS VILLAGE PROPERTY. THE PROJECT INCLUDES APPROXIMATELY 1.36 ACRES.

THE EXISTING CAMPUS HAS A CONCRETE DRIVE ON THE NORTH SIDE OF THE MAIN BUILDING WITH PARKING STALLS AND A TWO TURNAROUND. THE PROJECT SITE IS LOCATED IN THE AREA OF THE WESTERN TURNARIUND, WHICH IS BORDERED WITH A CONCRETE SIDEWALK AND CURB GUTTER, AS WELL AS A DOZEN SMALL TO MID-SIZED TREES. THE TURNAROUND HAS MULCHED, LANDSCAPED ISLAND. SITE LIGHTING ALIGNS THE TURNAROUND AND PARKING AREA. A DUMPSTER PAD SURROUNDED BY BOLLARDS IS LOCATED ON THE WEST SIDE OF THE CONCRETE DRIVE.

THE DRIVE AND TURNAROUND SLOPE SLIGHTLY TO THE WEST. TO THE WEST OF THE TURNAROUND, THERE IS A GRASS HILL THAT DROPS DOWN IN ELEVATION 7-FEET AT APPROXIMATELY 25% SLOPE. THERE IS A 3-FOOT HILL TO THE NORTH OF THE PARKING STALLS AS WELL. THE BASE OF THE HILL HAS DENSE BRUSH, TREES, AND A DECORATIVE METAL FENCE ALONG THE PROPERTY LIMITS. THE PROPERTY LIMITS ON THE NORTH AND WEST SIDE OF THE SITE IS SCREENED WITH DENSE VEGETATION, CONSISTING OF SHRUBS AND TREES. THE STORMWATER ON SITE IS COLLECTED BY STORM INLETS ON THE WEST SIDE OF THE PROJECT SITE. THE STORM SEWER IS ROUTED OFF THE PROJECT SITE IN SEWERS RANGING FROM 26" TO 48" DIAMETER, DISCHARGING TO A DETENTION POND ON THE NORTH SIDE OF CAMPUS. THIS DETENTION POND DISCHARGES THE OVERFLOW NORTH OFF CAMPUS INTO A CULVERT UNDERNEATH ALMON RD.

THE SOILS ON SITE ARE PRIMARILY FILL SOILS THAT ARE SILTY SAND AND SANDY SILT.

ALL STORMWATER ON THE EXISTING SITE DRAINS TO AN EXISTING STORMWATER DETENTION POND BMP ON THE NORTH SIDE OF THE PROPERTY. THIS POND HAS A CONCRETE CONTROL STRUCTURE WITH A SERIES OF ORIFICES AND WEIRS.

PROPOSED WORK

THE NEW CLINIC WILL BE INSTALLED ON THE NORTH SIDE OF THE MAIN BUILDING AND IN THE AREA OF THE WESTERN TURNAROUND. THE BUILDING WILL HAVE A CORRIDOR CONNECTING TO THE EXISTIGNG MAIN BUILDING. AN ACCESS DRIVE AND ASSOCIATED RETAINING WALL WILL ALLOW EXTERIOR ACCESS TO THE BASEMENT HOLDING UTILITY EQUIPMENT. THE EXISTING SURFACE PARKING AND ACCESS DRIVE IN THE PROJECT AREA WILL BE MODIFIED TO INCORPORATE A NEW TURNAROUND AND AMBULANCE ENTRANCE TO THE NEW CLINIC. OTHER SITE IMPROVEMENTS WILL INCLUDE REROUTING EXISTING CAMPUS ELECTRICAL FEED AROUND THE NEW CLINIC'S FOOTPRINT AND ADDING SERVICES INCLUDING STORMWATER, ELECTRICAL, AND WATER UTILITIES SERVICING THE NEW CLINIC. VARIOUS ADJUSTMENTS TO EXISTING LANDSCAPE ISLANDS AND PARKING WITHIN THE EXISTING PARKING LOT WILL BE MADE.

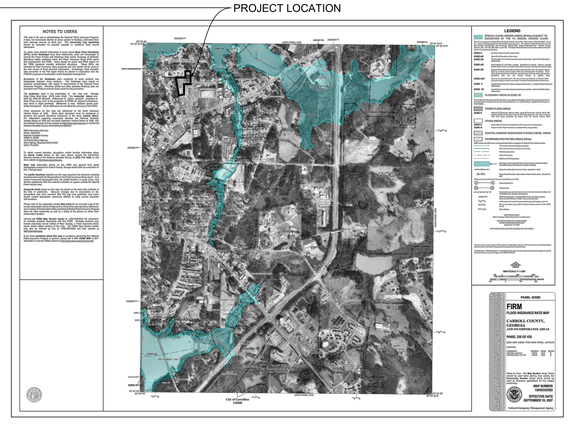
PROJECT DISTURBED AREA: 1.35 ACRES
PRE-RUNOFF COEFFICIENT: 0.69
POST-RUNOFF COEFFICIENT: 0.54

PROJECT RECEIVING WATERS: LAKE CARROLL (GAR03150108O811) IS APPROXIMATELY 900 FT. NORTHWEST OF THE SITE

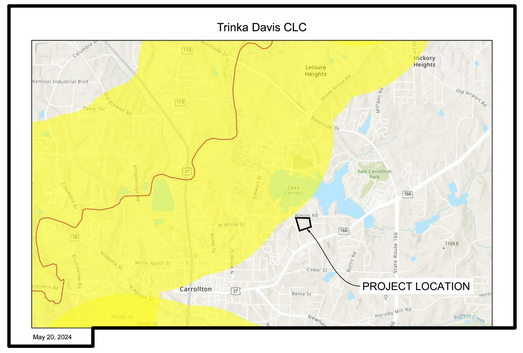
PROJECT NOTES:
1. THERE ARE NO STATE WATERS WITHIN 200 FEET OF THE SITE.
2. THERE ARE NO WETLANDS ON THE SITE.
3. THIS PROPERTY DOES NOT LIE WITHIN A 100 YEAR FLOOD HAZARD ZONE AS DEFINED BY THE F.E.M.A. FLOOD INSURANCE RATE MAP OF CARROLL COUNTY, GA MAP NUMBER 13045C0258D DATED SEPTEMBER 19, 2007 (SEE MAP ON THIS SHEET).

ESPCP GENERAL NOTES

1. I ATTEST THAT THE SITE WAS VISITED PRIOR TO DEVELOPMENT OF THE ES&PC PLAN AS STATED ON PAGE 18 OF THE PERMIT. _____ (KYLE CYR)
2. I ATTEST THAT THE PERMITTEE'S ES&PC PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BMPS AND SAMPLING TO MEET PERMIT REQUIREMENTS AS STATED ON PAGES 17,18 OF THE PERMIT. _____ (KYLE CYR)
3. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN 7 DAYS AFTER INSTALLATION.
4. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
5. THIS PROJECT IS NOT LOCATED IN A BUFFER ZONE, THUS NO BUFFER VARIANCE IS REQUIRED FOR THIS PROJECT.
6. AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
7. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
8. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
9. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
10. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
11. THIS SITE DOES NOT DRAIN INTO AN IMPAIRED STREAM SEGMENT. SEE MAP ON THIS PAGE.
12. IF A TMDL IMPLEMENTATION PLAN FOR SEDIMENT HAS BEEN FINALIZED FOR THE IMPAIRED STREAM SEGMENT AT LEAST SIX MONTHS PRIOR TO SUBMITTAL OF NOI, THE ES&PC PLAN MUST ADDRESS ANY SITE-SPECIFIC CONDITIONS OR REQUIREMENTS INCLUDED IN THE TMDL IMPLEMENTATION PLAN.
13. BMPS FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF THE VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
14. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BMPS FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS.



FEMA FLOOD MAP



IMPAIRED STREAMS OF GEORGIA

VICINITY MAP

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

8/19/2024 — DATE
DESIGN PROFESSIONAL'S SIGNATURE
6/20/2026 — EXP. DATE
0000080861 — LEVEL II CERTIFICATION NUMBER

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON / CHARLOTTE ENGINEERS

CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
GUIDON DESIGN, INC.
1221 N. PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202

FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
CHARLOTTE ENGINEERS
5838 MONROE ROAD
CHARLOTTE, NC 28212

STAMP: GEORGIA REGISTERED No. PE042008 PROFESSIONAL ENGINEER KYLE JOSEPH CYR

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

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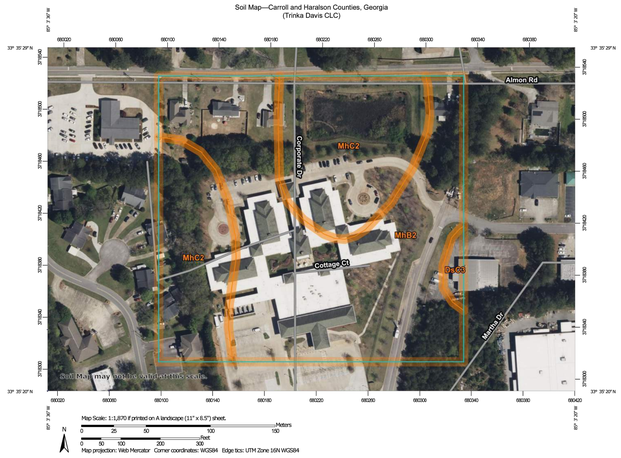

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
DaC3	Davidson gravelly clay loam, 6 to 10 percent slopes, severely eroded	0.2	1.4%
MnB2	Madison gravelly fine sandy loam, 2 to 6 percent slopes, eroded	7.5	58.3%
MrC2	Madison gravelly fine sandy loam, 6 to 10 percent slopes, moderately eroded	5.2	40.2%
Totals for Area of Interest		**12.9**	**100.0%**

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

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CHARLOTTE ENGINEERS
5838 MONROE ROAD
CHARLOTTE, NC 28212

STAMP

GEORGIA REGISTERED No. PE042008 PROFESSIONAL ENGINEER KYLE JOSEPH CYR

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

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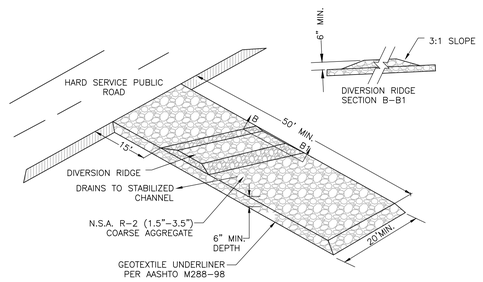


Co CONSTRUCTION EXIT

CONSTRUCTION EXIT

A STONE STABILIZED PAD SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE TO A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK, PARKING AREA, OR ANY OTHER AREA WHERE THERE IS A TRANSITION FROM BARE SOIL TO A PAVED AREA.

AGGREGATE SIZE
STONE WILL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5 TO 3.5 INCH STONE).

PAD THICKNESS
THE GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES.

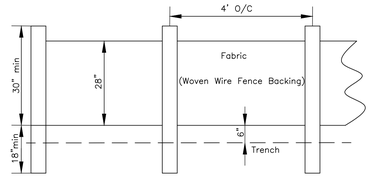
PAD WIDTH
AT A MINIMUM, THE WIDTH SHOULD EQUAL FULL WIDTH OF ALL POINTS OF VEHICULAR EGRESS, BUT NOT LESS THAN 20 FEET WIDE.

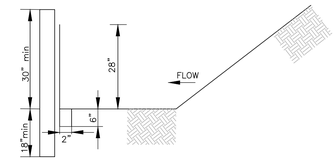
DIVERSION RIDGE
ON SITES WHERE THE GRADE TOWARD THE PAVED AREA IS GREATER THAN 2%, A DIVERSION RIDGE 6 TO 8 INCHES HIGH WITH 3:1 SIDE SLOPES SHALL BE CONSTRUCTED ACROSS THE FOUNDATION APPROXIMATELY 15 FEET ABOVE THE ROAD.

MAINTENANCE
THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

THIS DETAIL WAS TAKEN FROM THE CITY OF ATLANTA'S WEBSITE. IT MAY HAVE BEEN MODIFIED AND SHOULD BE REVIEWED THOROUGHLY.

City of Atlanta	STANDARD DETAILS	REV. DATE: SEPT 2011 ORIG. DATE: NOV 2004 SCALE: N.T.S.
	CONSTRUCTION EXIT	DETAIL NO. ER-G_C0001





Sd1-S TYPE C SILT FENCE

SILT FENCE

THE MANUFACTURER SHALL HAVE EITHER AN APPROVED COLOR MARK YARN IN THE FABRIC OR LABEL THE FABRICATED SILT FENCE WITH BOTH THE MANUFACTURER AND FABRIC NAME EVERY 100 FEET.

THE TEMPORARY SILT FENCE SHALL BE INSTALLED ACCORDING TO THIS SPECIFICATION, AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. FOR INSTALLATION OF THE FABRIC, SEE DETAIL.
POST INSTALLATION SHALL START AT THE CENTER OF THE LOW POINT (IF PPLICABLE) WITH THE REMAINING POSTS SPACED 4 FEET APART FOR TYPE C SILT FENCE. ONLY STEEL POST SHALL BE USED WITH TYPE C SILT FENCE. POSTS SHALL BE 4' IN LENGTH, 1.3 LBS/ FT.
ALONG STREAM BUFFERS AND OTHER SENSITIVE AREAS, TWO ROWS OF TYPE C SILT FENCE OR ONE ROW OF TYPE C SILT FENCE BACKED BY HAYBALES SHALL BE USED.

MAINTENANCE FOR ALL Sd2 APPLICATIONS

ALL TRAPS SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL BE REMOVED FROM CURB INLET PROTECTION IMMEDIATELY. FOR EXCAVATED INLET SEDIMENT TRAPS, SEDIMENT SHALL BE REMOVED WHEN ONE-HALF OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST TO SEDIMENT ACCUMULATION. SOD INLET PROTECTION SHAL BE MAINTAINED AS SPECIFIED IN DS4- DISTURBED AREA STABLIZATION (WITH SODDING).

SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET, AGAIN.
WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. ALL DISTURBED AREAS AROUND THE INLET SHALL BE APPROPRIATELY STABILIZED.

DESIGN CRITERIA FOR ALL Sd2 APPLICATIONS

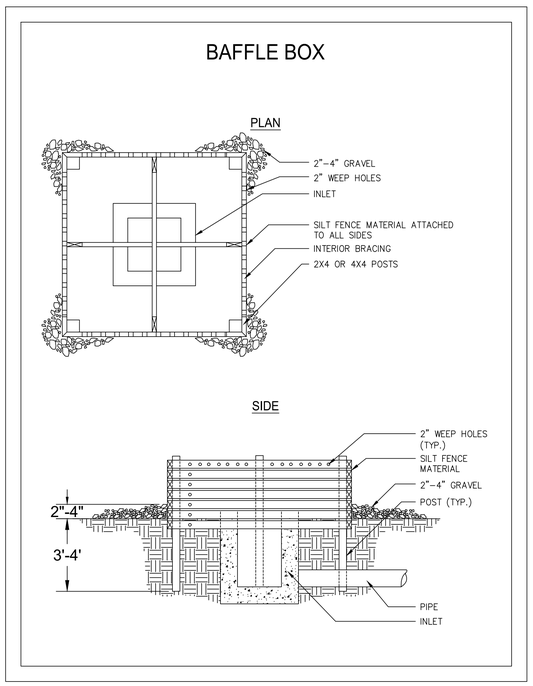
MANY SEDIMENT FILTERING DEVICES CAN BE DESIGNED TO SERVE AS TEMPORARY SEDIMENT TRAPS. SEDIMENT TRAPS MUST BE SELF-DRAINING UNLESS THEY ARE OTHERWISE PROTECTED IN AN APPROVED FASHION THAT WILL NOT PRESENT A SAFETY HAZARD. **THE** AREA DRAINING TO THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.

IF RUNOFF MAY BYPASS THE PROTECTED INLET, A TEMPORARY DIKE SHOULD BE CONSTRUCTED ON THE DOWN SLOPE SIDE OF THE STRUCTURE. ALSO, A STONE FILTER RING MAY BE USED ON THE UP SLOPE SIDE OF THE INLET TO SLOW RUNOFF AND FILTER LARGER SOIL PARTICLES. REFER TO FR-STONE FILTER RING.

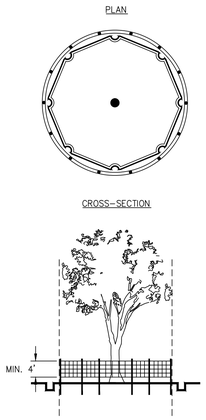
MAINTENANCE
SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS). TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

THIS DETAIL WAS TAKEN FROM THE CITY OF ATLANTA'S WEBSITE. IT MAY HAVE BEEN MODIFIED AND SHOULD BE REVIEWED THOROUGHLY.

City of Atlanta	STANDARD DETAILS	REV. DATE: SEPT 2011 ORIG. DATE: NOV 2004 SCALE: N.T.S.
	TYPE C SILT FENCE	DETAIL NO. ER-G_SD001

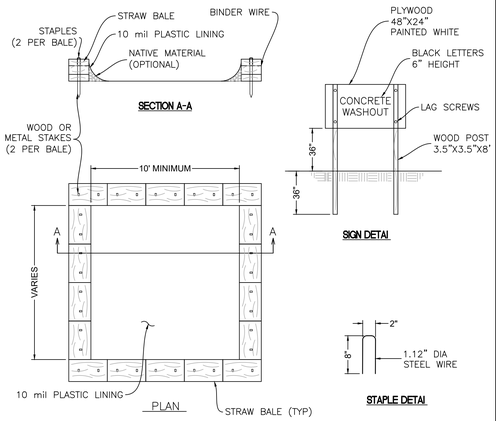


BAFFLE BOX
NTS



NOTES:
1. USE TRENCHER (I.E. DITCH WHICH) TO CUT A 4"-5" W X 18" D TRENCH ALONG DRIP LINE (LIMIT OF CLEARING) AND BACKFILL WITH SAND AND LIGHTLY COMPACT.
2. SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER-REBAR IS NOT TO BE USED FOR STAKES).
3. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.
4. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA.
5. FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM.

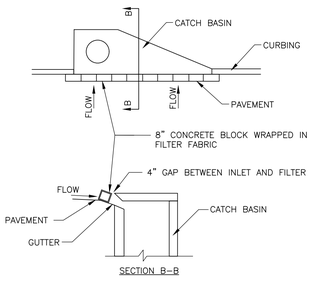
TREE PROTECTION
NTS



TYPE 'ABOVE GRADE' WITH STRAW BALES

NOTES
1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITY SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.

CONCRETE WASHOUT
NTS



CURB INLET PROTECTION

ONCE PAVEMENT HAS BEEN INSTALLED, A CURB INLET FILTER SHALL BE INSTALLED ON INLETS RECEIVING RUNOFF FROM DISTURBED AREAS. THIS METHOD OF INLET PROTECTION SHALL BE REMOVED IF A SAFETY HAZARD IS CREATED.

ONE METHOD OF CURB INLET PROTECTION USES "PIGS-IN-A-BALNKET"; 8-INCH CONCRETE BLOCKS WRAPPED IN FILTER FABRIC. SEE DETAIL. ANOTHER METHOD USES GRAVEL BAGS CONSTRUCTED BY WRAPING DOT #57 STONE WIHT FILTER FABRIC, WIRE, PLASTIC MESH, OR EQUIVALENT MATERIAL.
A GAP OF APPROXIMATELY 4 INCHES SHALL BE LEFT BETWEEN THE INLET FILTER AND THE INLET TO ALLOW FOR OVERFLOW AND PREVENT HAZARDOUS PONDING IN THE ROADWAY. PROPER INSTALLATION AND MAINTENANCE ARE CRUCIAL TO AVOID PONDING IN THE ROADWAY, RESULTING IN A HAZARDOUS CONDITION.

Sd2-P CURB INLET PROTECTION

THIS DETAIL WAS TAKEN FROM THE CITY OF ATLANTA'S WEBSITE. IT MAY HAVE BEEN MODIFIED AND SHOULD BE REVIEWED THOROUGHLY.

City of Atlanta	STANDARD DETAILS	REV. DATE: OCT. 2011 ORIG. DATE: NOV 2004 SCALE: N.T.S.
	CURB INLET PROTECTION 1 OF 2	DETAIL NO. ER-G_SD002

MAINTENANCE FOR ALL Sd2 APPLICATIONS

ALL TRAPS SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL BE REMOVED FROM CURB INLET PROTECTION IMMEDIATELY. FOR EXCAVATED INLET SEDIMENT TRAPS, SEDIMENT SHALL BE REMOVED WHEN ONE-HALF OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST TO SEDIMENT ACCUMULATION. SOD INLET PROTECTION SHAL BE MAINTAINED AS SPECIFIED IN DS4- DISTURBED AREA STABLIZATION (WITH SODDING).

SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET, AGAIN.
WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. ALL DISTURBED AREAS AROUND THE INLET SHALL BE APPROPRIATELY STABILIZED.

DESIGN CRITERIA FOR ALL Sd2 APPLICATIONS

MANY SEDIMENT FILTERING DEVICES CAN BE DESIGNED TO SERVE AS TEMPORARY SEDIMENT TRAPS. SEDIMENT TRAPS MUST BE SELF-DRAINING UNLESS THEY ARE OTHERWISE PROTECTED IN AN APPROVED FASHION THAT WILL NOT PRESENT A SAFETY HAZARD. **THE** AREA DRAINING TO THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.

IF RUNOFF MAY BYPASS THE PROTECTED INLET, A TEMPORARY DIKE SHOULD BE CONSTRUCTED ON THE DOWN SLOPE SIDE OF THE STRUCTURE. ALSO, A STONE FILTER RING MAY BE USED ON THE UP SLOPE SIDE OF THE INLET TO SLOW RUNOFF AND FILTER LARGER SOIL PARTICLES. REFER TO FR-STONE FILTER RING.

THIS DETAIL WAS TAKEN FROM THE CITY OF ATLANTA'S WEBSITE. IT MAY HAVE BEEN MODIFIED AND SHOULD BE REVIEWED THOROUGHLY.

City of Atlanta	STANDARD DETAILS	REV. DATE: OCT. 2011 ORIG. DATE: NOV 2004 SCALE: N.T.S.
	CURB INLET PROTECTION 2 OF 2	DETAIL NO. ER-G_SD002

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

8/19/2024 — DATE
DESIGN PROFESSIONAL'S SIGNATURE
6/20/2026 — EXP. DATE
0000080861 — LEVEL II CERTIFICATION NUMBER

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON | CHARLOTTE ENGINEERS

CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
GUIDON DESIGN, INC.
1221 N. PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202

FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
CHARLOTTE ENGINEERS
5838 MONROE ROAD
CHARLOTTE, NC 28212

STAMP: GEORGIA REGISTERED No. PE042008 PROFESSIONAL ENGINEER KYLE JOSEPH CYR

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: EROSION CONTROL DETAILS	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 / Checked: KJC / Drawn: TJS	Drawing Number: CJ503

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EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN

1. TITLE NOTE:

THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN SHALL ALSO BE REFERRED TO HEREIN AS THE EROSION CONTROL PLAN. THE CHANGE WILL NOT AFFECT THE PLAN'S COMPLIANCE WITH THE REQUIREMENTS OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN CONTAINED IN THE GENERAL NPDES PERMIT NUMBER GAR 100001.

2.REFERENCE GUIDE:

ALL SECTION HEADINGS AND CITATIONS REFERENCE THE GENERAL NPDES PERMIT NUMBER GAR100001 DATED SEPTEMBER 23, 2013.

3.COMPLIANCE NOTE:

THESE PLANS ARE PROVIDED AS A GUIDE TO ASSIST THE PERMITTEES IN THEIR COMPLIANCE WITH THE GENERAL NPDES PERMIT NUMBER GAR100001. SHOULD ANY DISCREPANCIES BE FOUND BETWEEN THIS DOCUMENT AND THE PERMIT, THE LANGUAGE AND REQUIREMENTS CONTAINED IN THE PERMIT SHALL GOVERN.

DESIGN PROFESSIONAL'S CERTIFICATIONS [IV]

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND–DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES MEETS THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NUMBER GAR 100001.

8/19/2024	
DATE	DESIGN PROFESSIONAL'S SIGNATURE

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

8/19/2024	
DATE	DESIGN PROFESSIONAL'S SIGNATURE
6/20/2026	0000080861
EXP. DATE	LEVEL II CERTIFICATION NUMBER

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

DATE	OWNER'S SIGNATURE

DESIGN PROFESSIONAL'S 7–DAY VISIT CERTIFICATION

I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

DATE OF INSPECTION	GSWCC LEVEL II DESIGN PROFESSIONAL
	LEVEL II CERTIFICATION NUMBER

NOTICE OF INTENT [II]

1. THE PRIMARY PERMITTEE AND TERTIARY PERMITTEE MUST RETAIN GUIDON DESIGN, INC., EXCEPT WHEN THE PERMITTEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WHICH GUIDON DESIGN, INC. DESIGNED WITHIN SEVEN (7) DAYS OF INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPS HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PERMITTEE WITHIN SEVEN (7) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

2.RESPONSIBLE PARTIES [II.B] [DEFINITIONS PER PART 1.B]:

A.PRIMARY PERMITTEE [II.B.1] THE OWNER (THE LEGAL OWNER OF THE FACILITY OF SITE WHERE THE CONSTRUCTION ACTIVITY WILL TAKE PLACE) OR THE OPERATOR (THE ENTITY THAT HAS PRIMARY DAY–TO–DAY OPERATION CONTROL OF THOSE ACTIVITIES AT THE FACILITY NECESSARY TO ENSURE COMPLIANCE WITH PERMIT CONDITIONS), OR BOTH, OF A TRACT OF LAND FOR A CONSTRUCTION PROJECT SUBJECT TO THIS PERMIT.
B.SECONDARY PERMITTEE AN OWNER INDIVIDUAL BUILDER, UTILITY CONTRACTOR, OR SIMILAR ENTITY THAT CONDUCTS A CONSTRUCTION ACTIVITY WITHIN A COMMON DEVELOPMENT.
C.TERTIARY PERMITTEE BOTH THE OWNER AND THE OPERATOR OF A REMAINING LOT WITHIN A SURFACE WATER DRAINAGE AREA OF COMMON DEVELOPMENT WHERE THE PRIMARY PERMITTEE HAS SUBMITTED A NOTICE OF TERMINATION.
D.NOTICES OF INTENT MAY BE SUBMITTED FOR SEPARATE PHASES OF PROJECTS WITH A TOTAL PLANNED DISTURBANCE GREATER THAN 5.0 ACRES, PROVIDED THAT EACH PHASE SHALL NOT BE LESS THAN 1.0 ACRE [II.B.k]
E.ALL NOTICES OF INTENT ARE TO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE ENVIRONMENTAL PROTECTION DIVISION ACCORDING TO THE SCHEDULE IN APPENDIX A OF THE PERMIT AND TO THE LOCAL AUTHORITY THAT ISSUED THE LAND DISTURBANCE PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATIVE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOTICE OF TERMINATION (NOT) IS SUBMITTED IN ACCORDANCE WITH PART IV. [II.C]

3.NOTICE OF INTENT CONTENTS [II.B]:

THE NOTICE OF INTENT SHALL INCLUDE THE FOLLOWING (REFER TO SECTION II.B OF THE PERMIT FOR COMPLETE REQUIREMENTS):
- THE SITE/PROJECT NAME
- THE OPERATOR'S OR OWNER'S CONTACT INFORMATION
- CONTACT INFORMATION FOR THE INDIVIDUAL WITH DAILY OPERATION CONTROL
- THE NAME OF THE INITIAL RECEIVING WATERS (OR FIRST BLUE LINE STREAM ENCOUNTERED)
- THE NAME OF THE RECEIVING WATER(S) LOCATED WITHIN ONE LINEAR MILE UPSTREAM OF AN WITHIN THE DESIGNATED USE(S) SHOWN ON GEORGIA'S 2008 AND SUBSEQUENT "305(b)/303(d) LIST DOCUMENTS (FINAL)"
- AN ESTIMATED ACTIVITY SCHEDULE FOR THE PROJECT
- DESIGN COMPLIANCE CERTIFICATION
- THE TYPE OF CONSTRUCTION ACTIVITY CATEGORY (LISTED ON NOTICE OF INTENT FORM)
- ALL MONITORING LOCATIONS
- FOR STAND ALONE CONSTRUCTION DISTURBING MORE THAN 50 ACRES INCLUDE A SINGLE COPY OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
- ANY OTHER INFORMATION SPECIFIED ON THE NOTICE OF INTENT AT THE TIME OF SUBMITTAL

SPECIAL CONDITIONS [III.A, III.B]

1. ALL COVERED DISCHARGES SHALL BE COMPOSED ENTIRELY OF STORM WATER. EXCEPT AS PROVIDED IN PART I.C.2 AND III.A.2.

2.THE FOLLOWING NON–STORM WATER DISCHARGES MAY BE AUTHORIZED PROVIDED THAT THE NON–STORM WATER COMPONENT OF THE DISCHARGE IS EXPLICITLY LISTED IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN AND IS IN COMPLIANCE WITH PART IV.D.7 OF THE PERMIT:
- DISCHARGES FROM FIRE FIGHTING ACTIVITIES
- FIRE HYDRANT FLUSHING
- POTABLE WATER SOURCES WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS, INCLUDING

1.WATER LINE FLUSHING
2.IRRIGATION DRAINAGE
3.AIR CONDITIONING CONDENSATE
4.SPRINGS
5.UNCONTAMINATED GROUNDWATER
6.FOUNDATION OR FOOTING DRAINS

3.THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STORM WATER DISCHARGE(S) FROM THE SITE IS NOT AUTHORIZED BY THIS PERMIT AND SHALL BE PREVENTED. IF A SPILL OCCURS, PERMITTEE IS REQUIRED TO REPORT SPILL IN ACCORDANCE WITH GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT [III.B.1, III.B.2]

4.THE DISCHARGE OF SANITARY WASTE IN THE STORM WATER DISCHARGE(S) FROM A SITE IS NOT AUTHORIZED BY THIS PERMIT AND SHALL BE PREVENTED.

IMPAIRED STREAM SEGMENT DISCHARGE [PART III.C]

1.ANY PERMITTEE WHO INTENDS TO OBTAIN COVERAGE UNDER THIS PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN ONE (1) LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN IMPAIRED STREAM SEGMENT IDENTIFIED AS "NOT SUPPORTING" ITS DESIGNATED USE(S), AS SHOWN ON GEORGIA'S 2016 AND SUBSEQUENT "305(b)/3039(d) LIST DOCUMENTS (FINAL)" AT THE TIME OF THIS NOI SUBMITTAL, MUST SATISFY PART III.C OF THIS PERMIT.

2.EROSION CONTROL PLANS MUST INCLUDE AT LEAST FOUR (4) OF THE BEST MANAGEMENT PRACTICES REFERENCED IN PART III.C.2 FOR THOSE AREAS OF THE SITE WHICH DISCHARGE INTO AN IMPAIRED STREAM SEGMENT.

MANAGEMENT PRACTICE AND PERMIT VIOLATIONS [III.D]

1.BEST MANAGEMENT PRACTICES (BMP) [III.D.1]:

A.BEST MANAGEMENT PRACTICES ARE REQUIRED FOR ALL CONSTRUCTION ACTIVITIES AND MUST BE IMPLEMENTED IN ACCORDANCE WITH THE DESIGN SPECIFICATION CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND–DISTURBING ACTIVITY WAS PERMITTED.
B.PROPER DESIGN, INSTALLATION, AND MAINTENANCE OF BEST MANAGEMENT PRACTICES SHALL CONSTITUTE A COMPLETE DEFENSE TO ANY ACTION BY THE DIRECTOR OR TO ANY OTHER ALLEGATION OF NON–COMPLIANCE WITH PART III.D.3 AND III.D.4 OF THE PERMIT. THIS DOES NOT PROTECT THE PERMITTEE FROM POTENTIAL LAWSUITS FILED BY DOWNSTREAM PROPERTY OWNERS.

2.PERMIT VIOLATIONS [III.D.2, III.D.3, III.D.4]:

A.FAILURE TO PROPERLY DESIGN, INSTALL, OR MAINTAIN BEST MANAGEMENT PRACTICES SHALL CONSTITUTE A VIOLATION OF THE PERMIT FOR EACH DAY ON WHICH SUCH FAILURE OCCURS.
B.IF DURING THE COURSE OF THE PERMITTEES ROUTINE INSPECTION BEST MANAGEMENT PRACTICE FAILURES ARE OBSERVED WHICH HAVE RESULTED IN SEDIMENT DEPOSITION INTO WATERS OF THE STATE, THE PERMITTEE SHALL CORRECT THE BMP FAILURES AND SHALL SUBMIT A SUMMARY OF THE VIOLATIONS TO THE ENVIRONMENTAL PROTECTION DIVISION IN ACCORDANCE WITH PART V.A.2 OF THE PERMIT.
C.A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH THE DISCHARGE RESULTS IN THE TURBIDITY OF THE RECEIVING WATER(S) BEING INCREASED ABOVE LEVELS SPECIFIED IN THE PERMIT.
D.WHEN THE PERMITTEE HAS ELECTED TO MONITOR OUTFALL(S), THE DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING THE VALUE SELECTED FROM APPENDIX B. THIS VALUE IS INDICATED ON THIS PLAN WHEN MONITORING IS SELECTED.

TERMINATION OF COVERAGE [VI]

1.NOTICE OF TERMINATION:

A.A NOTICE OF TERMINATION MUST BE SUBMITTED BY THE PERMITTEE ONCE THE ENTIRE STAND ALONE DEVELOPMENT HAS UNDERGONE FINAL STABILIZATION AND ALL STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THE PERMIT HAVE CEASED. [VI.A.1]
B.FOR CONSTRUCTION ACTIVITIES WHERE THE PRIMARY PERMITTEE HAS ELECTED TO SUBMIT NOTICES OF INTENT FOR SEPARATE PHASES OF THE STAND ALONE DEVELOPMENT, THE PHASE OR PHASES OF THE STAND ALONE DEVELOPMENT ON THE NOTICE OF TERMINATION SHALL CORRESPOND TO THE PHASE OR PHASES ON THE NOTICE OF INTENT AND SHALL HAVE UNDERGONE FINAL STABILIZATION AND ALL STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THE PERMIT HAVE CEASED. [VI.A.1]
C.WHEN THE OWNER OR OPERATOR OF THE SITE CHANGES A NOTICE OF TERMINATION MUST BE SUBMITTED, WHERE STORM WATER DISCHARGES WILL CONTINUE AFTER THE CHANGE, THE PERMITTEE MUST, PRIOR TO FILING THE NOTICE OF TERMINATION, NOTIFY ANY SUBSEQUENT OWNER OR OPERATOR OF THE PERMITTED SITE AS TO THE REQUIREMENTS OF THE PERMIT. [VI.A.2]

2.NOTICE OF TERMINATION CONTENTS [VI.B]:

THE NOTICE OF TERMINATION SHALL INCLUDE THE FOLLOWING (REFER TO SECTION VI.B OF THE PERMIT FOR COMPLETE REQUIREMENTS):
- THE OPERATOR'S OR OWNER'S CONTACT INFORMATION
- THE SITE/PROJECT NAME
- THE NPDES PERMIT NUMBER FOR THE STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY IDENTIFIED BY THE NOTICE OF TERMINATION
- THE NAME OF THE INITIAL RECEIVING WATERS (OR FIRST BLUE LINE STREAM ENCOUNTERED)
- ANY OTHER INFORMATION SPECIFIED ON THE NOTICE OF INTENT AT THE TIME OF SUBMITTAL
- TERMINATION CERTIFICATION AS REFERENCED IN PART VI.B.6

3.NOTICE OF TERMINATION SUBMITTAL:

ALL NOTICES OF TERMINATION ARE TO BE SUBMITTED RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE ENVIRONMENTAL PROTECTION DIVISION ACCORDING TO THE SCHEDULE IN APPENDIX A OF THE PERMIT AND TO THE LOCAL AUTHORITY THAT ISSUED THE LAND DISTURBANCE PERMIT. [VI.C]

STANDARD PERMIT CONDITIONS [V]

1.DUTY TO COMPLY [V.A]:

A.EACH PERMITTEE MUST COMPLY WITH ALL CONDITIONS OF THE NPDES PERMIT. ANY PERMIT NONCOMPLIANCE CONSTITUTES A VIOLATION OF THE GEORGIA WATER QUALITY CONTROL ACT AND IS GROUNDS FOR ENFORCEMENT ACTION; FOR PERMIT TERMINATION; OR FOR DENIAL OF A PERMIT RENEWAL APPLICATION [V.A.1]
B.FAILURE OF A PRIMARY PERMITTEE TO COMPLY WITH ANY APPLICABLE TERM OR CONDITION TO THE PERMIT SHALL NOT RELIEVE ANY OTHER PRIMARY PERMITTEE FROM COMPLIANCE WITH THEIR APPLICABLE TERMS AND CONDITIONS OF THE PERMIT. [V.A.1]
C.EACH PERMITTEE MUST DOCUMENT IN THEIR RECORDS ANY AND ALL KNOWN VIOLATION OF THIS PERMIT AT THEIR SITE WITH SEVEN (7) DAYS OF THEIR KNOWLEDGE OF THE VIOLATION. A SUMMARY OF THESE VIOLATIONS MUST BE SUBMITTED TO THE ENVIRONMENTAL PROTECTION DIVISION BY THE PERMITTEE AT THE ADDRESSES SHOWN IN PART II.C WITHIN FOURTEEN (14) DAYS OF DISCOVERING THE VIOLATION. [V.A.2]
D.THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT PROVIDE THAT ANY PERSON WHO FALSIFIES, TAMPERS WITH, OR KNOWINGLY RENDERS INACCURATE ANY MONITORING DEVICE OR METHOD REQUIRED TO BE MAINTAINED UNDER THE PERMIT, MAKES ANY FALSE STATEMENT, REPRESENTATION, OR CERTIFICATION IN ANY RECORD OR OTHER DOCUMENT SUBMITTED OR REQUIRED TO BE MAINTAINED UNDER THE PERMIT, INCLUDING MONITORING REPORTS OR REPORTS OF COMPLIANCE OR NONCOMPLIANCE SHALL, UPON CONVICTION, BE PUNISHED BY A FINE OR IMPRISONMENT, OR BOTH. VIOLATIONS MAY ALSO BE SUBJECT TO CIVIL PENALTIES AS DESCRIBED IN THE PERMIT. [V.A.3]

2.NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE [V.C]:

IT SHALL NOT BE A DEFENSE FOR THE PERMITTEE IN AN ENFORCEMENT ACTION THAT IT WOULD HAVE BEEN NECESSARY TO HALT OR REDUCE THE PERMITTED ACTIVITY IN ORDER TO MAINTAIN COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT.

3.NEED TO MITIGATE [V.D]:

THE PERMITTEE SHALL TAKE ALL RESPONSIBLE STEPS TO MINIMIZE OR PREVENT ANY DISCHARGE IN VIOLATION OF THIS PERMIT WHICH HAS A REASONABLE LIKELIHOOD OF ADVERSELY AFFECTING HUMAN HEALTH OR THE ENVIRONMENT.

4.DUTY TO PROVIDE INFORMATION [V.E]:

THE PERMITTEE SHALL UPON REQUEST FURNISH ANY INFORMATION WHICH IS REQUESTED TO DETERMINE COMPLIANCE WITH THIS PERMIT.

5.OTHER INFORMATION [V.F]:

WHEN THE PERMITTEE BECOMES AWARE THAT HE FAILED TO SUBMIT ANY RELEVANT FACTS OR SUBMITTED INCORRECT INFORMATION IN THE NOTICE OF INTENT OR IN ANY OTHER REPORT REQUIRED TO BE SUBMITTED TO THE ENVIRONMENTAL PROTECTION DIVISION, THE PERMITTEE SHALL PROMPTLY SUBMIT SUCH FACTS OR INFORMATION.

6.SIGNATORY REQUIREMENTS [V.G]:

ALL NOTICES OF INTENT, NOTICES OF TERMINATION, EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLANS, REPORTS, CERTIFICATIONS, OR OTHER INFORMATION, EITHER SUBMITTED TO THE ENVIRONMENTAL PROTECTION DIVISION OR THE OPERATOR OF A LARGE OR MEDIUM MUNICIPAL SEPARATE STORM SEWER SYSTEM, OR THAT THIS PERMIT REQUIRES SHALL BE MAINTAINED BY THE PERMITTEE AND SIGNED AS DESCRIBED BY SECTION V.G OF THE PERMIT.

7.OIL AND HAZARDOUS SUBSTANCE LIABILITY [V.H]:

THE PERMIT NEITHER PRECLUDES THE INSTITUTION OF ANY LEGAL ACTION NOR PROTECTS THE PRIMARY PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER THE GEORGIA HAZARDOUS WASTE MANAGEMENT ACT, THE OFFICIAL CODE OF GEORGIA, THE CLEAN WATER ACT, OR THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT.

8.PROPER OPERATION AND MAINTENANCE [V.L]:

THE PERMITTEE SHALL AT ALL TIMES PROPERLY OPERATE AND MAINTAIN ALL FACILITIES AND SYSTEMS OF TREATMENT AND CONTROL (AND RELATED APPURTENANCES) WHICH ARE INSTALLED OR USED BY THE PERMITTEE TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THE PERMIT AND WITH THE REQUIRED PLANS.

9.INSPECTION AND ENTRY [V.M]:

THE PERMITTEE SHALL ALLOW THE DIRECTOR OR AN AUTHORIZED REPRESENTATIVE OF THE ENVIRONMENTAL PROTECTION AGENCY, THE ENVIRONMENTAL PROTECTION DIVISION, OR TO DESIGNATED OFFICIALS OF THE LOCAL GOVERNMENT REVIEWING SOIL EROSION AND SEDIMENT CONTROL PLANS, GRADING PLANS, OR STORM WATER MANAGEMENT PLANS, UPON THE PRESENTATION OF CREDENTIALS AND OTHER DOCUMENTS AS MAY BE REQUIRED BY LAW, TO:
- ENTER UPON THE PERMITTEE'S PREMISES WHERE A REGULATED FACILITY OR ACTIVITY IS LOCATED OR CONDUCTED OR WHERE RECORDS MUST BE KEPT UNDER THE CONDITIONS OF THE PERMIT.
- HAVE ACCESS TO AND COPY AT REASONABLE TIMES, ANY RECORDS THAT MUST BE KEPT UNDER THE CONDITIONS OF THE PERMIT.
- INSPECT AT REASONABLE TIMES ANY FACILITIES OR EQUIPMENT (INCLUDING MONITORING AND CONTROL EQUIPMENT).

10. PERMIT ACTIONS [V.N]:

THE PERMIT MAY BE REVOKED AND REISSUED, OR TERMINATED FOR CAUSE INCLUDING BUT NOT LIMITED TO CHANGES IN THE LAW OR REGULATIONS. THE FILING OF A REQUEST BY THE PERMITTEE FOR TERMINATION OF THE PERMIT, OR A NOTIFICATION OF PLANNED CHANGES OR ANTICIPATED NONCOMPLIANCE, DOES NOT STAY IN ANY PERMIT CONDITION.

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN [IV]

1. GENERAL NOTES:

A.NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A TWENTY–FIVE (25') BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION. VARIANCES MAY BE OBTAINED FROM THE DIRECTOR AS DETAILED IN SECTION IV.(i) OF THE PERMIT. [IV.(i)]
B.NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITH A FIFTY FOOT (50') BUFFER ALONG THE BANKS OF ANY STATE WATERS CLASSIFIED AS "TROUT STREAMS," AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION. VARIANCES MAY BE OBTAINED FROM THE DIRECTOR AS DETAILED IN SECTION IV.(ii) OF THE PERMIT. [IV.(ii)]
C.NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED, STATE OF VEGETATION UNTIL ALL LAND–DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. AFTER THE SUBMITTAL OF A NOTICE OF TERMINATION, A BUFFER MAY BE THINNED OR TRIMMED OF VEGETATION AS LONG AS A PROTECTIVE VEGETATIVE COVER REMAINS TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY IS LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED. [IV.(iii)]
D.ANY AND ALL REVISIONS OR AMENDMENT TO THIS ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON THE BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE PLAN.

2.CHECKLIST [IV.D.1]:

A.EACH PLAN SHALL INCLUDE THE APPLICABLE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CHECKLIST ESTABLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED.

3.SITE DESCRIPTION [IV.D.2]:

A.REFER TO SHEET CJ501 FOR THE CONSTRUCTION ACTIVITY SCHEDULE
B.REFER TO SHEET CJ501 FOR THE SITE LOCATION MAP.
C.REFER TO THE SAMPLING PLAN (WHEN PROVIDED) FOR:
- THE LOCATION(S) OF THE STORM WATER DISCHARGE(S) AND/OR OUTFALL(S) SELECTED FOR MONITORING
- THE LOCATION(S) UPSTREAM OF THE CONSTRUCTION SITE SELECTED FOR MONITORING
- THE DETERMINED NEPHELOMETRIC TURBIDITY UNIT TARGET VALUE SELECTED FROM APPENDIX B OF THE PERMIT
- THE RATIONALE FOR SELECTING THAT LIMIT INCLUDING THE SURFACE WATER DRAINAGE AREA SIZE CALCULATION AND THE TYPE OF RECEIVING WATERS

D.REFER TO THE EROSION CONTROL SHEETS FOR A SITE DESCRIPTION COVERING:
- A DESCRIPTION OF THE NATURE OF THE CONSTRUCTION ACTIVITY
- TOTAL SITE AND DISTURBED AREAS
- AN ESTIMATE OF THE RUNOFF COEFFICIENT OR PEAK DISCHARGE FLOW OF THE SITE PRIOR TO CONSTRUCTION ACTIVITIES AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED AND EXISTING DATA DESCRIBING THE SOIL OR THE QUALITY OF ANY DISCHARGE FROM THE SITE.
- IDENTIFY THE RECEIVING WATER(S) AND EXTENT OF WETLAND ACREAGE AT THE SITE

4.CONTROLS [IV.D.3]:

A.THE NPDES GENERAL PERMIT NUMBER GAR 100001 CONTAINS THE FOLLOWING DEFINITIONS:
- EROSION – THE PROCESS BY WHICH LAND SURFACE IS WORN AWAY BY THE ACTION OF WIND, WATER, ICE OR GRAVITY.
- SEDIMENT – THE SOLID MATERIAL, BOTH ORGANIC AND INORGANIC, THAT IS BEING TRANSPORTED IN SUSPENSION OR HAS BEEN MOVED VIA WIND, WATER, ICE OR GRAVITY
- SEDIMENTATION – THE ACTION OR PROCESS OF FORMING OR DEPOSITING THE SEDIMENT THAT HAS ERODED

B.THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN OFFERS GUIDELINES FOR EROSION AND SEDIMENTATION CONTROL INCLUDING STABILIZING MEASURES, STRUCTURAL PRACTICES, AND SEDIMENT BASINS. ALL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED ACCORDING TO THE STANDARDS AND SPECIFICATION CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IS WHICH THE LAND–DISTURBING ACTIVITY WAS PERMITTED.

- STABILIZING MEASURES [IV.D.3.a.(1)]:
  STABILIZING MEASURES ARE INTENDED TO REDUCE EROSION AND SEDIMENT DAMAGE TO DOWNSTREAM PROPERTIES AND SHALL BE IMPLEMENTED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. THEY INCLUDE BUT ARE NOT LIMITED TO:
  - o DISTURBED AREA STABILIZATION WITH MULCHING, TEMPORARY SEEDING, OR PERMANENT VEGETATION

o DUST CONTROL
o EROSION CONTROL MATTING AND BLANKETS
o TACKIFIERS AND BINDERS

- STRUCTURAL PRACTICES [IV.D.3.a.(2)]:
  STRUCTURAL PRACTICES ARE INTENDED TO REDUCE EROSION AND SEDIMENT ESCAPED FROM THE SITE OF CONSTRUCTION ACTIVITY AND SHALL BE IMPLEMENTED PRIOR TO OR CONCURRENT WITH (AS PRACTICABLE OR GOVERNED BY LOCAL MUNICIPALITIES) CONSTRUCTION ACTIVITIES. THESE PRACTICES INCLUDE BUT ARE NOT LIMITED TO:
  - o SILT FENCING: TYPES A, B, AND C AS WARRANTED BY FLOW VELOCITIES AND/OR PROJECT LENGTH

o CONSTRUCTION EXITS
o CHECK DAMS: STONE OR HAY BALE DEPENDING UPON FLOW RATES AND DRAINAGE AREAS
o RETAINING WALLS: CAST–IN–PLACE CONCRETE OR MODULAR BLOCK
o RETROFITTING: HALF–ROUND PIPE OR SLOTTED BOARD DAM WITH STONE
o INLET SEDIMENT TRAPS: TYPED USED WILL VARY DEPENDING UPON FLOW RATES, DRAINAGE AREAS, AND DRAINAGE SLOPES
o STORM DRAIN OUTLET PROTECTION: RIP–RAP APRON SPECIFICATIONS WILL VARY DEPENDING UPON OVERALL DRAINAGE PARAMETERS
o SURFACE ROUGHENING: SPECIFIC PRACTICE AND METHOD PRESCRIBED WILL DEPEND UPON TYPE AND RATE OF SLOPE

THE STRUCTURAL PRACTICES LISTED ABOVE WILL BE USED TO ACCOMPLISH EROSION AND SEDIMENTATION PROTECTION OR AS OTHERWISE NOTED ON THE EROSION CONTROL PLANS.

- SEDIMENT BASINS [IV.D.3.a.(3)]:
  SEDIMENT BASINS REDUCE THE ESCAPE OF SEDIMENT FROM THE SITE BY TRAPPING IT IN AN EXCAVATED AREA OR BEHIND A SINGLE OR SERIES OF STRUCTURAL PRACTICES WHILE STILL ALLOWING RUNOFF TO LEAVE THE SITE. THESE BASINS ARE EITHER TEMPORARY OR PERMANENT IN NATURE AND MUST COMBINE TO PROVIDE 67 CUBIC YARDS OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION HAS BEEN ACHIEVED ON THE SITE OF CONSTRUCTION ACTIVITIES. SEDIMENT STORAGE WILL BE PROVIDED THROUGH THE USE OF TEMPORAR6Y SEDIMENT BASINS AND EQUIVALENT CONTROL MEASURES OR AS OTHERWISE NOTED ON THE EROSION CONTROL PLANS. NOTWITHSTANDING ANY OTHER PROVISIONS OF PART IV.D.3.a.(3), PERENNIAL AND INTERMITTENT WATERS OF THE STATE SHALL NOT BE USED FOR TEMPORARY OR PERMANENT SEDIMENT DETENTION.

C.STORM WATER MANAGEMENT WILL BE PROVIDED BY A WATER QUALITY DEVICE(S). POTENTIAL WATER QUALITY DEVICES THAT COULD BE USED INCLUDE DETENTION PONDS, RETENTION PONDS, OPEN VEGETATIVE SWALES, MECHANICAL DEVICES, OR A SEQUENTIAL SYSTEM. [IV.D.2.B]

D.WASTE DISPOSAL. LOCATE WASTE COLLECTION AREAS AWAY FROM STREETS, GUTTERS, WATERCOURSES, AND STORM DRAINS. WASTE COLLECTION AREAS, SUCH AS DUMPSTERS, ARE OFTEN BEST LOCATED NEAR CONSTRUCTION SITE ENTRANCES TO MINIMIZE TRAFFIC ON DISTURBED SOILS. THE PLAN SHOULD INCLUDE SECONDARY CONTAINMENT AROUND LIQUID WASTE COLLECTION AREAS TO FURTHER MINIMIZE THE LIKELIHOOD OF CONTAMINATED DISCHARGES. SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL NOT BE DISCHARGED INTO WATER OF THE STATE. PRACTICES SUCH AS TRASH DISPOSAL, RECYCLING, PROPER MATERIAL HANDLING, AND SPILL PREVENTION AND CLEANUP MEASURES CAN REDUCE THE POTENTIAL FOR STORM WATER POLLUTION. THE PROPER MANAGEMENT AND DISPOSAL OF WASTES SHALL BE PRACTICED ON THE SITE(S) OF CONSTRUCTION ACTIVITIES. AT A MINIMUM THE FOLLOWING STEPS SHOULD BE TAKEN TO ENSURE PROPER WASTE DISPOSAL:
- CONSULT LOCAL AUTHORITIES FOR HAZARDOUS MATERIAL AND SOLID WASTED DISPOSAL REQUIREMENTS
- EMPTY AND CLEAN HAZARDOUS WASTE CONTAINERS BEFORE DISPOSING THEM ACCORDING TO MANUFACTURE'S GUIDELINES
- DO NOT REMOVE THE ORIGINAL PRODUCT LABELS FROM HAZARDOUS MATERIAL CONTAINERS
- DO NOT MIX MATERIALS PRIOR TO DISPOSAL UNLESS RECOMMENDED BY MANUFACTURER
- CLEAN UP SPILLS IMMEDIATELY USING AN ABSORBENT MATERIAL SUCH AS SAWDUST OR GRANULAR ABSORBENT CLAY TO CONTAIN THE SPILL; FOR HAZARDOUS MATERIALS, FOLLOW CLEANUP INSTRUCTIONS ON THE PACKAGE
- PROVIDE EXTRA CONTAINERS AND INCREASE PICKUP FREQUENCY DURING DEMOLITION
- COLLECT, REMOVE AND DISPOSE OF ALL CONSTRUCTION SITE WASTES AT AUTHORIZED DISPOSAL SITES. ONSITE BURIAL OF MATERIAL IS PROHIBITED
- DESIGNATE A BUILDING MATERIAL AND/OR WASTE COLLECTION AREA ONSITE THAT DOES NOT RECEIVE A SUBSTANTIAL AMOUNT OF RUNOFF FROM UPLAND AREAS AND DOES NOT DRAIN DIRECTLY TO A BODY OF WATER
- ENSURE THAT ALL CONTAINERS HAVE LIDS AND ARE PLACED IN A COVERED AREA WHENEVER POSSIBLE. IF MATERIALS DO NOT HAVE LIDS, COVER CONTAINERS OR MATERIALS WITH TARPS OR PLACE UNDER COVERED AREAS
- SURROUND DESIGNATED MATERIAL STORAGE AREAS WITH SILT FENCE OR OTHER BEST MANAGEMENT PRACTICES TO ELIMINATE STORM WATER DISCHARGE DIRECTLY INTO THE STORM SEWER SYSTEM
- SCHEDULE WASTE COLLECTION TO PREVENT THE CONTAINERS FROM OVERFILLING
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT

E.PLAN SHALL INCLUDE BMP FOR CONCRETE WASH–DOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND REAR OF VEHICLES. WASH–DOWN OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

6/15/2023	
DATE	DESIGN PROFESSIONAL'S SIGNATURE
6/20/2026	0000080861
EXP. DATE	LEVEL II CERTIFICATION NUMBER

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON | CHARLOTTE ENGINEERS

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GEORGIA REGISTERED No. PE042008 PROFESSIONAL ENGINEER KYLE JOSEPH CYR

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
EROSION CONTROL DETAILS	BID DOCUMENTS	Construct TDVV CLC 12 Beds	508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 · Checked: KJC · Drawn: TJS	Drawing Number: CJ504

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5.INSPECTIONS [IV.D.4]:

A. ALL PRIMARY PERMITTEES ARE REQUIRED TO PROVIDE FOR THE PERFORMANCE OF INSPECTIONS BY CERTIFIED PERSONNEL, AS DEFINED BY THE PERMIT, AS DESCRIBED BELOW:

- EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT:
  - o ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHEN PETROLEUM PRODUCTS ARE STORED, USED OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT
  - o ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING
  - o MEASURE RAINFALL ONCE EACH TWENTY-FOUR (24) HOUR PERIOD AT THE SITE. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED
- CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST):
  - o DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SIT THAT HAVE NOT UNDERGONE FINAL STABILIZATION
  - o AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION
  - o STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATION OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREA OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.a.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED
- CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT [I.E. UNTIL NOTICE OF TERMINATION IS RECEIVED BY EPD] THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S)

B. UPDATE THE SITE DESCRIPTION, POLLUTION PREVENTION, AND CONTROL MEASURES IDENTIFIED IN THE EROSION SEDIMENTATION, AND POLLUTION CONTROL PLAN AS REQUIRED BY THE RESULTS OF EACH INSPECTION NO LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

C. ANY CHANGES TO THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN AS A RESULT OF AN INSPECTION, SHALL BE IMPLEMENTED AS SOON AS PRACTICABLE, BUT NO LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTION REQUIRING THE CHANGE.

D. A REPORT OF EACH INSPECTION SHALL BE MADE AND RETAINED AT THE SITE UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED. THIS REPORT SHALL INCLUDE:

- THE SUMMARY OF THE SCOPE OF THE INSPECTION
- THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION
- THE DATE OF THE INSPECTION
- MAJOR OBSERVATION RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
- ANY ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.a.(4) OF THE PERMIT (CORRECTIVE MAINTENANCE)
- ANY INCIDENTS OF NON-COMPLIANCE
- COMPLIANCE CERTIFICATION

6.MAINTENANCE [IV.D.5]:

A. ALL BEST MANAGEMENT PRACTICES SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN SHALL BE MAINTAINED ACCORDING TO THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED.

B. ALL DAMAGE DISCOVERED DURING THE REQUIRED INSPECTIONS SHALL BE PROPERLY REPAIRED AND STRUCTURAL BEST MANAGEMENT PRACTICES SHAL BE CLEANED OUT AS FOLLOWS:

- CHECK DAMS – REMOVE SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE CHECK DAM
- CONSTRUCTION EXITS – PERIODIC REDRESSING WITH STONE MAY BE REQUIRED
- RETROFITTINGS – REMOVE ALL TRASH AND DEBRIS AND REMOVE SEDIMENT WHEN THE SEDIMENT HAS REACH A DEPTH EQUAL TO ONE-THIRD OF THE HEIGHT OF THE RETROFIT
- SILT FENCING – SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO A DEPTH EQUAL TO ONE-HALF OF THE HEIGHT OF THE SILT FENCE
- INLET SEDIMENT TRAPS – SEDIMENT SHALL BE REMOVED WHEN THE TRAP IS ONE-HALF FULL OR HAS REACHED ONE-HALF OF ITS STORAGE CAPACITY
- SEDIMENT BASINS – SEDIMENT SHALL BE REMOVED AS SPECIFIED BY EACH BASIN DESIGN

7.SAMPLING ANALYSIS

A. STORM WATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT. EPA 833-8-92-001."

B. STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE SAMPLING POINT SHOWN ON THE ESPCP FINAL PHASE PLAN, PAGE 5 (AT THE STORMWATER OUTFALL OF THE PROPERTY). A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN THE TURBIDITY OF THE RECEIVING WATER(S) BEING INCREASED BY MORE THAN TWENTY-FIVE (25) NTU FOR WATERS SUPPORTING WARM WATER FISHERIES, REGARDLESS OF A PERMITTEE'S CERTIFICATION UNDER PART II.B.1.j AND PART II.B.3.j

8.SAMPLING REQUIREMENTS [IV.D.6]:

A. THE PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALL(S)

B. SAMPLING REQUIREMENTS [IV.D.6.a]:

- SITE MAP AS DETAILED IN PART IV.D.6.a(1) OF THE PERMIT
- A WRITTEN NARRATIVE OF THE SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE, AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES, AND PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION
- A RATIONALE FOR THE NEPHELOMETRIC TURBIDITY UNIT (NTU) LIMIT(S) SELECTED FROM APPENDIX B OF THE PERMIT, INCLUDING THE SIZE OF THE FACILITY OR CONSTRUCTION, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATERS
- ANY ADDITIONAL INFORMATION REQUIRED BY THE ENVIRONMENTAL PROTECTION DIVISION REQUESTED VIA WRITTEN NOTICE TO THE PERMITTEE

C. SAMPLE TYPES [IV.D.6.b]:

- ALL SAMPLES SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS MUST BE CONDUCTED AS INDICATED IN PART IV.D.5.b OF THE PERMIT
- LABEL ALL SAMPLE CONTAINERS PRIOR TO COLLECTING THE SAMPLE
- MIX SAMPLES WELL BEFORE TRANSFERRING THEM TO A SECONDARY CONTAINER
- SAMPLE CONTAINERS SHOULD BE LARGE MOUTH, THOROUGHLY CLEANED AND RINSED GLASS OR PLASTIC JARS
- MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED
- SAMPLES SHOULD BE ANALYZED IMMEDIATELY, BUT NOT LATER THAN 48 HOURS AFTER COLLECTION
- DILUTION OF SAMPLES IS NOT REQUIRED
- SAMPLES ARE NOT REQUIRED TO BE COOLED
- SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALL(S) BEYOND THE MINIMUM FREQUENCY STATED IN THE PERMIT MUST BE REPORTED TO THE ENVIRONMENTAL PROTECTION DIVISION AS SPECIFIED IN PART IV.E OF THE PERMIT.

D. SAMPLING POINTS [IV.D.6.c]:

- FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION THEREOF [IV.D.6.c.(1)]
- THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE FIRST STORM WATER DISCHARGE FROM THE SITE OF PERMITTED ACTIVITY, BUT DOWNSTREAM OF ANY DISCHARGES NOT ASSOCIATED WITH PERMITTED ACTIVITY. [IV.D.6.c.(1).(a)]
- THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER MUST BE TAKEN DOWNSTREAM OF THE LAST STORM WATER DISCHARGE FROM THE SITE OF PERMITTED ACTIVITY, BUT UPSTREAM OF ANY DISCHARGES NOT ASSOCIATED WITH PERMITTED ACTIVITY. [IV.D.6.c.(1).(b)]
- THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR OUTFALL STORM WATER CHANNEL(S) [IV.D.6.c.(1).(c)]
- DO NOT STIR BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR OUTFALL STORM WATER CHANNEL [IV.D.6.c.(1).(d)]
- THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE CONTAINER FACES UPSTREAM [IV.D.6.c.(1).(e)]
- KEEP THE SAMPLES FREE OF FLOATING DEBRIS [IV.D.6.c.(1).(f)]
- PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT [IV.D.6.c.(1).(g)]
- ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARDS SET FORTH IN THE PERMIT [IV.D.6.c.(1).(h)]

E. SAMPLING FREQUENCY [IV.D.6.d]:

- STORM WATER SAMPLES SHALL BE TAKEN FOR THE FOLLOWING STORM EVENTS:
  - o FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCHES AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS *MONDAY TO FRIDAY, 8:00AM TO 5:00PM AND SATURDAY 8:00AM TO 5:00PM, EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATION HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION

o IN ADDITION TO THE ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCHES AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS * THAT OCCURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST

o AT THE TIME OF SAMPLING PERFORMED PURSUANT TO THE ABOVE, IF BMPS ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO TA RECEIVING STREAM ARE NOT PROPERLY DESIGNED, INSTALLED, AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCHES DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED , OR UNTIL POST-STORM EVEN INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED, AND MAINTAINED

9.NON-STORM WATER DISCHARGES [IV.D.7]

EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, ANY SOURCES OF NON-STORM WATER LISTED IN PART III.A.2 OF THE PERMIT THAT ARE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY ARE IDENTIFIED IN THE PLAN AND HAVE APPROPRIATE POLLUTION PREVENTION MEASURES.

REPORTING [IV.E]

1. MONITORING RECORD SUBMISSION AND RETENTION:

A. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE ENVIRONMENTAL PROTECTION DIVISION (EPD) AT THE ADDRESS SHOWN IN PART II.C OF THE PERMIT BY THE FIFTEENTH (15) DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT

B. UPON WRITTEN NOTIFICATIONS, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS

C. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD

D. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI

E. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH A TIME AS A NOTICE OF TERMINATION (NOT) IS SUBMITTED IN ACCORDANCE WITH PART VI

F. ALL MONITORING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION:

- THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS;
- THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
- THE DATE(S) ANALYSES WERE PERFORMED;
- THE TIME(S) ANALYSES WERE PERFORMED;
- THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSIS;
- REFERENCE AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
- THE RESULTS OF SUCH ANALYSIS, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS AND;
- RESULTS WHICH EXCEED 75 NTU SHALL BE REPORTED AS "EXCEED 75 NTU"

2. RETENTION OF RECORDS

A. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOTICE OF TERMINATION (NOT) IS SUBMITTED IN ACCORDANCE WITH PART VI:

- A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD
- A COPY OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT
- THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PAT IV.A.5 OF THIS PERMIT
- A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT
- A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a OF THIS PERMIT
- A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2 OF THIS PERMIT
- DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a(1)© OF THIS PERMIT

B. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AN ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE RETAINED AT THE PRIMARY PERMITTEE'S PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE

PROJECT DESCRIPTION

1. PROJECT SUMMARY OF EXISTING AND PROPOSED CONDITIONS – SEE SHEET ESPCP PAGE #1
2. PROJECT DOES NOT PROPOSE ANY ENCROACHMENTS INTO THE STATE WATER BUFFER AREA.
3. THE PROJECT RECEIVING WATER FOR THIS SITE IS CARROLL LAKE APPROXIMATELY 0.25 MILES DOWNSTREAM OF THE SITE. THE LAKE IS NOT LISTED AS A PRIORITY WATER AS OF NOVEMBER 2015. ACCORDING TO GIS MAPPING OF THE PROJECT VICINITY, THE THE PROJECT IS NOT LOCATIED WITHIN THE BASIN OF AN IMPAIRED STREAM. SEE MAP ON ESPCP PAGE #1.

THE PROJECT AREA IS 2.53 ACRES AND THE "WATERS SUPPORTING WARM WATER FISHERIES" SURFACE WATER DRAINAGE AREA IS 1.2 SQUARE MILES. THUS, AN THE MAXIMUM ACCEPTABLE NTU FOR RUNOFF FROM THE PROJECT AREA IS 75. THE SURFACE WATER DRAINAGE AREA WAS DETERMINED USING THE DRAW AND MEASURE TOOL FOR THE GSWCC INTERACTIVE CONTOUR MAP AT WWW.GASWCC.ORG/MAPS/.

MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED: A SWALE STONE CHECK DAMS ON THE WEST SIDE OF THE PARKING DECK AND A SODDED AREA TO THE NORTH OF THE PARKING DECK. STORMWATER LEAVES THE SITE VIA A STORM PIPE.

EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES

1. COMPREHENSIVE

A. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.

B. PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE AT A MINIMUM IN CONFORMANCE WITH THE REQUIREMENTS OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, AND DEKALB COUNTY CODES GOVERNING EROSION AND SEDIMENTATION CONTROL. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

C. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE STANDARDS SPECIFIED IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. CURRENT EDITION AND CITY OF CARROLLTON STANDARDS.

D. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES, IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

E. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

F. THE CONSTRUCTION OF THE SITE WILL COMMENCE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.

G. CONSTRUCTION EXITS SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY OR EXIT FROM THE SITE AND SHALL BE MAINTAINED IN A CONDITIONS WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE AS CONDITIONS DEMAND, REPAIR, AND OR/CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OFF SITE ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY. THE PAVED STREET ADJACENT TO THE SITE EXIT WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT, OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

H. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORMWATER MANAGEMENT DEVICES SHALL INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.

I. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION.

J. EROSION CONTROL DEVICES ARE TO BE INSTALLED AND FULLY OPERATIONAL PRIOR TO ANY DEMOLITION.

K. SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171 – TEMPORARY SILT FENCE OF THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, CURRENT EDITION, THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, AND CITY OF CARROLLTON STANDARDS.

L. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.

2. DURING CONSTRUCTION:

A. ONSITE DUST CONTROL DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS

B. ALL OPEN SWALES MUST BE GRASSED AND RIP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSION. STONE FOR RIP-RAP SHALL CONSIST OF ROUGH UN-HEWN QUARRY GRANITE AS NEARLY IN RECTANGULAR SECTION AS PRACTICAL. THE MINIMUM SIZE STONE SHALL WEIGH BETWEEN 75 AND 150 POUNDS AND SHALL BE HAND PLACED AS A LOOSE STONE EMBANKMENT.

C. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

D. AT ANY TIME DURING CONSTRUCTION IF IT BECOMES NECESSARY TO PUMP STORM WATER OR GROUNDWATER FROM AN EXCAVATION, THE PUMPED WATER MUST MEET THE TURBIDITY REQUIREMENTS OUTLINED IN THE SITE SPECIFIC EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. WATER THAT DOES NOT MEET THESE REQUIREMENTS MUST BE FILTERED OR DISCHARGED INTO A TEMPORARY SEDIMENT BASIN UNTIL IT MEETS THE TURBIDITY REQUIREMENTS. ONCE THE TURBIDITY REQUIREMENTS HAVE BEEN MET THE WATER BE DISCHARGED INTO THE STORM SEWER SYSTEM. AS A MINIMUM TURBIDITY TESTS SHOULD BE PERFORMED AS DESCRIBED IN THE PERMIT. THESE SAME REQUIREMENTS APPLY TO ALL AUTHORIZED NON-STORM WATER DISCHARGES UNDER THE STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES (DNR) ENVIRONMENTAL PROTECTION DIVISION (EPD) GENERAL PERMIT NO. GAR 100001, AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.

3. SOIL CLEANUP AND CONTROL PRACTICES REGARDING PETROLEUM SPILLS AND LEAKS:

A. LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.

B. MATERIALS AND EQUIPMENT NECESSARY SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

C. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT TO PREVENT FUTURE SPILLS.

D. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.

E. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675

F. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675

G. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.

H. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

I. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ON SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY A LICENSED PROFESSIONAL.

4. PRODUCT SPECIFIC PRACTICES

A. PETROLEUM BASED PRODUCTS – CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS, AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHOD WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

B. PAINTS, FINISHES, AND SOLVENTS – ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCTS, MATERIALS USED WITH THE PRODUCTS, AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND STANDARDS.

C. CONCRETE TRUCK WASHING – NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON SITE.

D. FERTILIZER/HERBICIDES – THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

E. BUILDING MATERIALS – NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

5. WASTE MATERIALS

A. NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE.

B. ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE.

C. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

6. HAZARDOUS WASTES

A. ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATION AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOBSITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

B. THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NOT HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ONSITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOBSITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

7. SANITARY WASTES

A. A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

B. ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE WILL BE NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIFICALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE, SHEET C5.1, BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

8. OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION EXIT HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT. SEE SHEET CJ103 AND CJ501 FOR CONSTRUCTION EXIT LOCATION AND DETAILS. THE PAVED STREET ADJACENT TO THE SITE EXIT WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

6/15/2023	[signature]
DATE	DESIGN PROFESSIONAL'S SIGNATURE
6/20/2026	0000080861
EXP. DATE	LEVEL II CERTIFICATION NUMBER

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON | CHARLOTTE ENGINEERS

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GUIDON DESIGN, INC.
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FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
CHARLOTTE ENGINEERS
5838 MONROE ROAD
CHARLOTTE, NC 28212

STAMP
GEORGIA REGISTERED No. PE042008 PROFESSIONAL ENGINEER KYLE JOSEPH CYR

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
EROSION CONTROL DETAILS	BID DOCUMENTS	Construct TDVV CLC 12 Beds	508-349
			Building Number:
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Drawing Number
		Issue Date: 12/16/2024 · Checked: KJC · Drawn: TJS	CJ505

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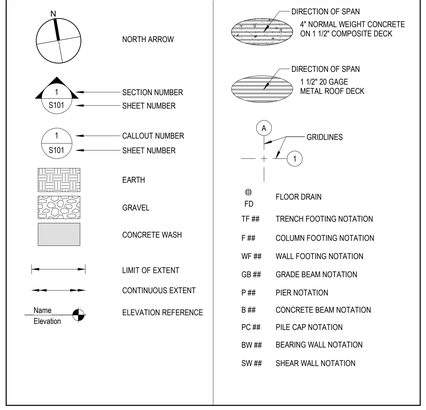
VA FORM 08-6231

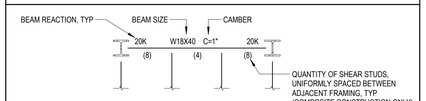
SHEET LIST

SHEET NUMBER	SHEET NAME
SB101	FOUNDATION PLANS
SB102	SLAB-ON GRADE PLAN
SB501	FOUNDATION SECTIONS AND DETAILS
SB502	FOUNDATION SECTIONS AND DETAILS
SB503	FOUNDATIONS SECTIONS AND DETAILS
SF101	FRAMING PLAN
SF102	CLERESTORY FRAMING PLANS
SF201	BUILDING ELEVATIONS
SF202	BUILDING ELEVATIONS
SF501	TYPICAL FRAMING SECTIONS AND DETAILS
SF502	FRAMING SECTIONS AND DETAILS
SF901	ISOMETRIC VIEWS
SI001	STRUCTURAL ABBREVIATIONS AND SYMBOLS
SI002	STRUCTURAL GENERAL NOTES
SI003	LOAD MAPS
SI004	BID DEDUCTS

MISCELLANEOUS SYMBOLS



BEAM LEGEND



NOTES:
1) REACTION VALUE IS ASD (KIPS), UNO.
2) WHERE NO VALUE IS SHOWN, DESIGN CONNECTION FOR A MINIMUM REACTION OF 10 KIPS.
3) SPACE STUDS PER TYPICAL SHEAR STUD PLACEMENT DETAIL. MINIMUM NUMBER OF STUDS PER GENERAL NOTES.
4) "M" IN PLACE OF BEAM SHAPE INDICATES W10X12 WITH MINIMUM CONNECTION.
5) HSS IN PLACE OF SHAPE INDICATES HSS10X4X5/16, UNO.
6) BEAMS ARE PRIMARY MEMBERS FOR FIREPROOFING UNLESS NOTED AS SECONDARY.
7) POSITIVE CAMBER UPWARDS, NEGATIVE CAMBER DOWNWARDS. CAMBER SHOWN ON CANTILEVERS IS AT END OF CANTILEVER.

CONCRETE CONSTRUCTION CLASS B LAP SPLICE LENGTHS

BAR SIZE	VERTICAL BARS	HORIZONTAL BARS	HORIZONTAL BOTTOM BARS
#3	1'-10"	2'-4"	1'-10"
#4	2'-5"	3'-1"	2'-5"
#5	3'-0"	3'-11"	3'-0"
#6	3'-7"	4'-8"	3'-7"
#7	5'-3"	6'-9"	5'-3"
#8	6'-0"	7'-9"	6'-0"
#9	6'-9"	8'-9"	6'-9"

NOTES:
1. HORIZONTAL "BOTTOM" BARS ARE BARS 12" OR LESS FROM THE BOTTOM OF A FOOTING, SLAB, OR OTHER CONCRETE MEMBER
2. ALL REINFORCING BARS ARE TO BE SPLICED WITH A CLASS B LAP SPLICE, U.N.O.

STRUCTURAL ABBREVIATIONS

A/E	ARCHITECT/ENGINEER
ACI	AMERICAN CONCRETE INSTITUTE
ACP	AUGER CAST PILE
ADDL	ADDITIONAL
ADJ	ADJACENT
AGGR	AGGREGATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
AR	ANCHOR ROD
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BI	BOTTOM OF
BAL	BALANCE
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOTT	BOTTOM
BRG	BEARING
BRKT	BRACKET
BTWN	BETWEEN
C	STANDARD CHANNEL
CANT	CANTILEVER
CC	CENTER TO CENTER
CF	COLD FORMED
CG	CENTER OF GRAVITY
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT OR CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEARANCE, CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CTR	CENTER
CTRD	CENTERED
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CYD	CUBIC YARD
CW	CONCRETE WALL
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION, DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DIM	DIMENSION
DN	DOWN
DO	DITTO
DP	DRILLED PIER OR DEEP
DWG	DRAWING
DWL	DOWELS
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION
ELEC	ELECTRICAL
ENCL	ENCLOSURE
ENGR	ENGINEER
EOD	EDGE OF DECK
EOJ	EDGE OF JOIST
EOS	EDGE OF SLAB
EQ	EQUAL
EQPT	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FAB	FROM ADJACENT BEAM
FD	FLOOR DRAIN
FDN	FOUNDATION
FIN	FINISH
FLG	FLANGE
FLR	FLOOR
FS	FOOTING STEP
FT	FEET
FTG	FOOTING
FTGD	FOOTING DRAIN
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GRND	GROUND
GT	GIRDER TRUSS
HAS, HS	HEADED ANCHOR STUD
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HS	HOLLOW STRUCTURAL SECTION
HT	HIP TRUSS
HVAC	HEATING, VENTILATION, AIR CONDITIONING
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH
INCL	INCLUDE
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
J/BRG	JOIST BEARING

STRUCTURAL ABBREVIATIONS

JST	JOIST
JT	JOINT
KB	KNEE BRACE
KIP, K	1,000 POUNDS
KO	KNOCK-OUT
KSI	KIPS PER SQUARE INCH
L	ANGLE OR LENGTH
LAB	LABRATORY
LB	POUND
LF	LINEAL FOOT
LIN	LINEAL, LINEAR
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONGIT	LONGITUDINAL
LP	LOW POINT
LSLT	LONG SLOTTED HOLE
LTWT	LIGHT WEIGHT
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MISCELLANEOUS CHANNEL
MECH	MECHANICAL
MEMB	MEMBRANE
MEP	MECHANICAL/ ELECTRICAL/ PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MULT	MULTIPLE
N/A	NOT APPLICABLE
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFD	OVERFLOW DRAIN
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OPPHD	OPPOSITE HAND
ORIG	ORIGINAL
OVS	OVERSIZED HOLE
P	PIER
PC	PIER CAP OR PRECAST
PERIM	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLF	POUNDS PER LINEAL FOOT
PLYWD	PLYWOOD
PREFAB	PREFABRICATED
PREL	PRELIMINARY
PREP	PREPARATION, PREPARE
PROJ	PROJECTION
PS	PRESTRESSED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	POST-TENSIONED
R	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCEMENT, REINFORCE
REQD	REQUIRED
RO	ROUGH OPENING
SCH	SCHEDULE
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SL	SLOPE
SL-DN	SLOPE DOWN
SL-UP	SLOPE UP
SOG	SLAB-ON-GRADE
SP	SHEET PILING
SPA	SPACES, SPACE
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
SSLT	SHORT SLOTTED HOLE
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUC	STRUCTURAL
SYM	SYMMETRICAL
T & B	TOP AND BOTTOM
T/	TOP OF
T/GB	TOP OF GRADE BEAM
TBS	MECHANICAL TENSION BUTT SPLICE
TEMP	TEMPERATURE
TF	TRENCH FOOTING
THRU	THROUGH
TRANS	TRANSVERSE
TYP	TYPICAL
UL	UNDERWRITERS' LABORATORY INC.
UNO	UNLESS NOTED OTHERWISE
UT	ULTRA-SONIC TEST
VERT	VERTICAL
W	WIDE FLANGE
W/	WITH
W/O	WITHOUT
WD	WOOD
WF	WALL FOOTING
WP	WORK POINT
WWF	WELDED WIRE FABRIC

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON / CHARLOTTE ENGINEERS

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GEORGIA REGISTERED No. PE041693 PROFESSIONAL LICENSED ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	STRUCTURAL ABBREVIATIONS AND SYMBOLS
Phase	BID DOCUMENTS
Project Title	Construct TVDD CLC 12 Beds
Project Number	508-349
Building Number	
Approved:	
	FULLY SPRINKLERED
Location	180 MARTIN DR, CARROLLTON, GA 30117
Drawing Number	SI001
Issue Date	12/16/2024
Checked	LKB
Drawn	ADK

Autodesk Docs://22.9003 - VA Atlanta Tinka Davis CLC\22.9003_S_v22.rvt
12/16/2024 10:48:00 AM

GENERAL

THE STRUCTURE HAS BEEN DESIGNED FOR THE IN-SERVICE LOADS ONLY. THE METHODS, MEANS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, TIEDOWNS, ETC.

THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS.

THE GENERAL NOTES ON THE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE FULL WRITTEN MATERIAL SPECIFICATIONS (IF ANY) FOR THE PROJECT. IF A DISCREPANCY OCCURS BETWEEN THE NOTES AND THE FULL SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

NO PENETRATIONS THROUGH STRUCTURAL ELEMENTS, OTHER THAN THOSE SHOWN ON THE DRAWINGS, SHALL BE MADE WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

CONTRACTOR TO COORDINATE ALL EQUIPMENT, ROOF DRAINS, CHASES, AND OTHER ITEMS CONNECTED TO THE STRUCTURE BEFORE FABRICATION BEGINS.

CONCRETE MIX DESIGN SUBMITTAL

THE CONTRACTOR SHALL SUBMIT FOR THE REVIEW OF THE STRUCTURAL ENGINEER A MIX DESIGN FOR EACH PROPOSED CLASS OF CONCRETE. EACH MIX DESIGN SHALL BE IDENTIFIED BY A MIX NUMBER OR OTHER UNIQUE IDENTIFICATION. THE CONTRACTOR SHALL NOT VARY FROM THE MIX DESIGNS NOR USE ANY CONCRETEOTHER THAN THE APPROVED MIX DESIGNS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. MIX DESIGN SUBMITTALS SHALL INCLUDE THE FOLLOWING INFORMATION:

1. MIX DESIGN NUMBER OR UNIQUE IDENTIFICATION AND INTENDED LOCATION OF PLACEMENT.
2. CEMENT TYPE, PROPORTION AND NAME OF MANUFACTURER.
3. FLY ASH PROPORTION (WHEN USED), LABORATORY ANALYSIS CERTIFICATION, AND NAME AND LOCATION OF SUPPLIER.
4. COURSE AGGREGATE PROPORTION, GRADATION REPORT, NAME AND LOCATION OF SUPPLIER.
5. FINE AGGREGATE PROPORTION, GRADATION REPORT, NAME AND LOCATION OF SUPPLIER.
6. MIXING WATER PROPORTION AND SOURCE.
7. ADMIXTURE DOSAGES, PRODUCT NAME(S) AND MANUFACTURER NAME(S).
8. FIBER REINFORCEMENT DOSAGE (WHEN USED), PRODUCT NAME AND MANUFACTURER NAME.
9. DESIGN 28-DAY COMPRESSIVE STRENGTH (F'C).
10. DESIGN SLUMP RANGE.
11. DESIGN AIR-ENTRAINMENT (FOR CONCRETE REQUIRING ENTRAINED AIR).
12. STATISTICAL ANALYSIS OF LABORATORY STRENGTH TEST DATA IN ACCORDANCE WITH "STANDARD DEVIATION" DETERMINATION OUTLINED IN ACI 318.

SHOP DRAWING SUBMITTALS

THE CONTRACTOR SHALL PREPARE DETAILED SHOP DRAWINGS TO ENABLE HIM TO FABRICATE, ERECT AND CONSTRUCT ALL PARTS OF THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THESE SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS, ACCURACY AND FIT OF WORK.

ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER. DRAWINGS SUBMITTED WITHOUT CONTRACTOR'S REVIEW WILL BE RETURNED UNCHECKED.

SUBMIT ELECTRONIC VERSIONS OF SHOP DRAWINGS. SUBMIT SHOP DRAWINGS IN PDF FORMAT.

SUBMIT SHOP DRAWINGS FOR EACH OF THE FOLLOWING ITEMS:

1. CONCRETE REINFORCEMENT
2. STRUCTURAL STEEL (INCLUDING DESIGN CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS CONSTRUCTED FOR ALL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS)
3. STEEL DECK / COMPOSITE DECK
4. PRECAST CONCRETE COMPONENTS (PRECAST LINTELS, ARCHITECTURAL PRECAST)
5. GLASS CURTAIN WALL SYSTEM (INCLUDING DESIGN CALCULATIONS AND CONNECTION DETAILS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS CONSTRUCTED)
6. COLD-FORMED METAL STUDS (EXTERIOR ONLY INCLUDING DESIGN CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS CONSTRUCTED INCLUDING CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS)
7. PREFABRICATED COLD-FORMED STEEL TRUSS SYSTEMS (INCLUDING DESIGN CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS CONSTRUCTED INCLUDING CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS)

PRODUCT DATA SUBMITTALS

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL PRODUCT DATA FOR THE SPECIFIC ITEMS LISTED BELOW. CONTRACTOR SHALL NOT USE PRODUCTS OTHER THAN THOSE SUBMITTED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

MANUFACTURER'S TRADE NAMES AND NUMBERS USED HEREIN ARE ONLY TO IDENTIFY COLORS, FINISHES, TEXTURES, AND PATTERNS AS A BASIS OF DESIGN. PRODUCTS OF AUTHORIZED EQUAL MANUFACTURER'S EQUIVALENT TO COLORS, FINISHES, TEXTURES, AND PATTERNS OF MANUFACTURERS LISTED THAT MEET REQUIREMENTS OF TECHNICAL SPECIFICATIONS IN EVERY RESPECT MAY BE ACCEPTABLE WITH SUBMITTAL OF A COMPLETED SUBSTITUTION REQUEST CONTAINING ALL PRODUCT DATA, TESTING AND ACTUAL SAMPLES, AND UPON APPROVAL IN WRITING BY CONTRACTING OFFICER.

SUBMIT ELECTRONIC VERSIONS OF PRODUCT DATA IN PDF FORMAT TO THE STRUCTURAL ENGINEER AND COR FOR REVIEW.

1. FIBER REINFORCEMENT FOR CONCRETE
2. CONCRETE REINFORCEMENT
3. DIAMOND PLATE DOWELS FOR SLABS ON GRADE
4. CONCRETE CURING COMPOUND
5. CONCRETE JOINT SEALANT
6. WATER STOPS
7. MASONRY JOINT REINFORCEMENT
8. EXPANSION ANCHORS
9. ADHESIVE ANCHORS
10. NON-SHRINK GROUT
11. COLD FORMED METAL STUDS (EXTERIOR ONLY)

FOUNDATIONS

FOUNDATION EXCAVATIONS AND SOIL RELATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT NUMBER 49235016 PREPARED BY TERRACON DATED JUNE 16, 2023.

FOUNDATIONS HAVE BEEN DESIGNED BASED ON ASSUMED NET ALLOWABLE BEARING CAPACITIES 0F 3000 PSF. CONTRACTOR SHALL ENGAGE A LICENSED GEOTECHNICAL ENGINEER TO REVIEW THE SOIL CONDITIONS AT THE SITE AS NECESSARY TO CONFIRM THE ALLOWABLE CAPACITIES PRIOR TO PLACEMENT OF THE FOUNDATIONS. CONFIRMATION OF THE ACCEPTABILITY OF THE SOILS SHALL BE REPORTED IN WRITING TO THE STRUCTURAL ENGINEER.

IF ACTUAL ALLOWABLE CAPACITIES ARE FOUND TO BE LESS THAN THE ASSUMED VALUES, THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY AND SHALL NOT PROCEED WITH FOUNDATION CONSTRUCTION WITHOUT REVIEW BY THE STRUCTURAL ENGINEER.

THE CONTRACTOR MAY PROPOSE AN ALTERNATE EQUIVALENT DRIVEN PILE SYSTEM FOR REVIEW AND APPROVAL BY THE ENGINEER OF RECORD. NO DRIVEN PILE SYSTEM OTHER THAN THOSE SPECIFIED SHALL BE USED WITHOUT REVIEW AND APPROVAL BY THE ENGINEER OF RECORD.

FOUNDATIONS AND SOILS RELATED WORK SHALL BE INSPECTED BY A LICENSED GEOTECHNICAL ENGINEER. WRITTEN FIELD REPORTS SHALL BE FORWARDED TO THE STRUCTURAL ENGINEER AS SOON AS THEY BECOME AVAILABLE.

FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION, WHICH DIFFER FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT, SHALL BE REPORTED TO THE STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.

EXCAVATIONS FOR SPREAD FOOTINGS, COMBINED FOOTINGS, CONTINUOUS FOOTINGS AND MAT FOUNDATIONS SHALL BE CLEANED AND HAND TAMPED TO UNIFORM SURFACE AND SHALL BE PROTECTED AND MAINTAINED UNIFORM UNTIL CONCRETE IS PLACED.

RENOVATION (EXISTING CONDITIONS)

WORK SHOWN ON THESE PLANS ASSUMES THAT THE ORIGINAL CONSTRUCTION WAS PERFORMED IN ACCORDANCE WITH THE ABOVE INDICATED ORIGINAL DRAWINGS INCLUDING (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, MEMBER SIZES, MATERIALS, DETAILS, ETC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONDITIONS RELATING TO THE EXISTING STRUCTURE AND TO NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.

WHERE NEW WORK IS TO BE FITTED TO OLD WORK, THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND CONDITIONS IN THE FIELD, AND REPORT ANY ERRORS OR DISCREPANCIES TO THE STRUCTURAL ENGINEER PRIOR TO THE FABRICATION AND ERECTION OF ANY NEW MEMBERS.

ALL WORK SHALL BE PREFORMED WITHOUT DAMAGE TO ADJACENT RETAINED WORK. ADJACENT EXISTING CONSTRUCTION SHALL BE PROTECTED FROM DUST, DIRT, AND DEBRIS ACCUMULATION AT ALL TIMES.

BELOW-GRADE WALLS

DO NOT BACKFILL AGAINST BELOW-GRADE CONCRETE (OR MASONRY) WALLS UNTIL THE CONCRETE (OR MASONRY ASSEMBLAGE) HAS REACHED ITS 28-DAY COMPRESSIVE STRENGTH.

WHERE BACKFILL IS REQUIRED ON BOTH SIDES OF BELOW-GRADE WALLS, BACKFILL EVENLY ON EACH SIDE OF EACH WALL TO PREVENT UNBALANCED SOIL LOADS AGAINST THE WALL.

UNLESS NOTED OTHERWISE, DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL THE BASEMENT AND GROUND FLOOR SLABS HAVE BEEN COMPLETELY INSTALLED AND REACHED THEIR 28-DAY COMPRESSIVE STRENGTH AND ALL FLOOR FRAMING AND SLAB CONNECTIONS TO THE BASEMENT WALLS HAVE BEEN COMPLETELY INSTALLED.

WHERE BASEMENT WALLS OCCUR, BACKFILL EVENLY ON ALL SIDES OF THE BUILDING TO PREVENT UNBALANCED SOIL LOADS AGAINST THE BASEMENT STRUCTURE, UNLESS NOTED OTHERWISE.

CONCRETE

REINFORCED CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318) AND COMMENTARY (ACI 318R).

MIXING, TRANSPORTING, AND PLACING OF CONCRETE SHALL CONFORM TO THE LATEST EDITION OF THE SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301). READY-MIXED CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C94. IN CASE OF A DISCREPANCY, THE PLANS AND SPECIFICATIONS SHALL GOVERN.

CEMENT SHALL CONFORM TO ASTM C150, TYPE I, UNO.

FLY ASH SHALL CONFORM TO ASTM C618, CLASS C OR F. THE RATIO OF THE AMOUNT (BY WEIGHT) OF FLY ASH TO TOTAL CEMENTITIOUS MATERIALS IN THE MIX SHALL NOT EXCEED 25 PERCENT.

NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C33.

WATER-REDUCING ADMIXTURES SHALL CONFORM TO ASTM C494.

AIR-ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260 AND SHALL BE CERTIFIED BY THE MANUFACTURER TO BE COMPATIBLE WITH OTHER ADMIXTURES.

CALCIUM CHLORIDE ADMIXTURES OR ADMIXTURES CONTAINING MORE THAN 0.1 PERCENT CHLORIDE IONS SHALL NOT BE USED.

IN COLD WEATHER CONDITIONS, MIXING, PLACING, FINISHING, CURING AND PROTECTION OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 306R, COLD WEATHER CONCRETING.

IN HOT WEATHER CONDITIONS, MIXING, PLACING, FINISHING, CURING AND PROTECTION OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 305R, HOT WEATHER CONCRETING.

USE OF CONSTRUCTION JOINTS AT LOCATIONS OTHER THAN THOSE INDICATED ON THE DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.

SLUMP FOR PUMPED CONCRETE SHALL BE MEASURED AT POINT OF DISCHARGE.

NORMAL WEIGHT CONCRETE SHALL BE USED IN THE FOLLOWING AREAS AND SHALL
HAVE THE PROPERTIES AS SHOWN BELOW:

FOUNDATIONS AND PIERS

1. COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI
2. MAXIMUM SLUMP: 4 INCHES
3. MINIMUM CEMENTITIOUS MATERIALS CONTENT: 470 LB./CU. YD. (USE TYPE II SULFATE RESISTANT CEMENT)
4. MAXIMUM SLUMP FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: 8 INCHES (AFTER ADMIXTURE IS ADDED TO CONCRETE WITH 2 TO 4 INCH SLUMP).
5. MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.50
6. MAXIMUM COARSE AGGREGATE SIZE: 1 1/2 INCHES
7. AIR CONTENT: N/A

FOUNDATION WALLS

1. COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI
2. MAXIMUM SLUMP: 4 INCHES
3. MINIMUM CEMENTITIOUS MATERIALS CONTENT: 470 LB./CU. YD. (USE TYPE II SULFATE RESISTANT CEMENT)
4. MAXIMUM SLUMP FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: 8 INCHES (AFTER ADMIXTURE IS ADDED TO CONCRETE WITH 2 TO 4 INCH SLUMP).
5. MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.50
6. MAXIMUM COARSE AGGREGATE SIZE: 1 INCH
7. AIR CONTENT: N/A

RETAINING WALLS AND CURBS/SIDEWALKS/SLABS EXPOSED TO DE-ICERS

1. COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI
2. MAXIMUM SLUMP: 4 INCHES
3. MINIMUM CEMENTITIOUS MATERIALS CONTENT: 517 LB./CU. YD. (USE TYPE II SULFATE RESISTANT CEMENT)
4. MAXIMUM SLUMP FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: 8 INCHES (AFTER ADMIXTURE IS ADDED TO CONCRETE WITH 2 TO 4 INCH SLUMP).
5. MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.55
6. MAXIMUM COARSE AGGREGATE SIZE: 1 INCH
7. AIR CONTENT: 6.0% +/- 1%

SLABS ON GRADE

1. COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI
2. MAXIMUM SLUMP: 4 INCHES
3. MINIMUM CEMENTITIOUS MATERIALS CONTENT: 470 LB./CU. YD. (USE TYPE II SULFATE RESISTANT CEMENT)
4. MAXIMUM SLUMP FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: 8 INCHES (AFTER ADMIXTURE IS ADDED TO CONCRETE WITH 2 TO 4 INCH SLUMP).
5. MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.50
6. MAXIMUM COARSE AGGREGATE SIZE: 1 INCH
7. AIR CONTENT: 6% +/- 1%
8. HIGH RANGE WATER REDUCING ADMIXTURE AND FIBER REINFORCING REQUIRED

SLABS ON STEEL DECK

1. COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI
2. MAXIMUM SLUMP: 4 INCHES
3. MINIMUM CEMENTITIOUS MATERIALS CONTENT: 470 LB./CU. YD.
4. MAXIMUM SLUMP FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: 8 INCHES (AFTER ADMIXTURE IS ADDED TO CONCRETE WITH 2 TO 4 INCH SLUMP).
5. MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.50
6. MAXIMUM COARSE AGGREGATE SIZE: 1 INCH
7. AIR CONTENT: N/A

CONCRETE SLABS ON GRADE

SLABS ON GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION (ACI 302.1R). ALL CONCRETE FOR SLAB ON GRADE TO RECIEVE FIBER REINFORCING IN ACCORDANCE WITH THE CONCRETE MIX DESIGN

PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL THE CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE FREE CEMENT ON THE SLAB SURFACE.

PROVIDE CURING OF CONCRETE SLABS IMMEDIATELY AFTER FINISHING USING A SPRAYED ON DISSIPATING-RESIN LIQUID CURING COMPOUND CONFORMING TO ASTM C309, UNLESS NOTED OTHERWISE. ALL SCUFFS OR ABRASIONS TO THE CURING MEMBRANE SHALL BE RECOATED DAILY. OTHER CURING METHODS MAY BE USED WITH APPROVAL BY THE STRUCTURAL ENGINEER.

SLABS ON GRADE SHALL BE PLACED TO ACHIEVE THE FOLLOWING MINIMUM TOLERANCES:

OVERALL VALUES: FF = 25
LOCAL VALUES: FF = 17

THE MINIMUM LOCAL AREA SHALL BE ANY BAY DEFINED BY COLUMN LINES.

UNLESS SHOWN OR NOTED OTHERWISE, PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS-ON-GRADE AT A MAXIMUM SPACING OF 36 TIMES THE SLAB THICKNESS. PROVIDE JOINTS AT ALL COLUMN LOCATIONS. LOCATE JOINTS TO ELIMINATE RE-ENTRANT CORNERS AND TO CREATE SQUARE OR RECTANGULAR SECTIONS WITH MAXIMUM LONG SIDE TO SHORT SIDE RATIO OF 1.5 TO 1.

CONTROL JOINTS IN SLABS ON GRADE SHALL NOT RECEIVE JOINT FILLER MATERIAL UNLESS NOTED OTHERWISE.

CONCRETE SLABS ON METAL DECK

UNLESS INDICATED OTHERWISE ON THE DRAWINGS, CONCRETE SLABS ON METAL DECK SHALL BE PLACED AS REQUIRED TO MAINTAIN A CONSTANT SLAB [THICKNESS]. ALL SLABS ON METAL DECK TO RECIEVE WELDED WIRE FABRIC.

CONTRACTOR SHALL ALLOW FOR THE DEFLECTION OF THE FLOOR ASSEMBLY DUE TO THE WET WEIGHT OF THE CONCRETE WHEN CALCULATING CONCRETE QUANTITIES AND SHALL INCLUDE THE COST OF ALL REQUIRED SLAB-ON-DECK CONCRETE IN THE BID PRICE.

PRIOR TO PLACEMENT OF CONCRETE SLABS ON METAL DECK, THE CONTRACTOR SHALL CAREFULLY REVIEW THE ELEVATIONS OF THE STRUCTURAL STEEL FRAMING, INCLUDING CAMBERED MEMBERS, FOR CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES (SUCH AS IMPROPER CAMBER, IMPROPER STEEL ELEVATIONS, ETC.) IMMEDIATELY AND SHALL NOT BEGIN CONCRETE PLACEMENT WITHOUT PRIOR REVIEW BY THE STRUCTURAL ENGINEER.

ACTUAL CONCRETE SLAB THICKNESS SHALL NOT BE LESS THAN THE INDICATED NOMINAL THICKNESS AT ANY LOCATION. IF ANY CONDITION IS DISCOVERED THAT WOULD PREVENT PLACEMENT OF CONCRETE TO THE NOMINAL THICKNESS; CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY AND SHALL NOT PROCEED WITH CONCRETE PLACEMENT WITHOUT PRIOR REVIEW BY THE STRUCTURAL ENGINEER.

SLABS ON METAL DECK SHALL RECEIVE A SMOOTH TROWEL FINISH, AND BE PLACED TO ACHIEVE THE FOLLOWING MINIMUM TOLERANCES:

OVERALL VALUES: FF = 25
LOCAL VALUES: FF = 17

PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL THE CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE FREE CEMENT ON THE SLAB SURFACE.

PROVIDE CURING OF CONCRETE SLABS IMMEDIATELY AFTER FINISHING USING A SPRAYED ON DISSIPATING-RESIN LIQUID CURING COMPOUND CONFORMING TO ASTM C309. ALL SCUFFS OR ABRASIONS TO THE CURING MEMBRANE SHALL BE RECOATED DAILY. OTHER CURING METHODS MAY BE USED WITH APPROVAL BY THE STRUCTURAL ENGINEER.

REINFORCING STEEL

REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI.

REINFORCING BAR DETAILING, FABRICATING, AND PLACING SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING STANDARDS: ACI 301, ACI 315, ACI 318 AND ACI DETAILING MANUAL (SP66).

UNLESS A GREATER AMOUNT OF COVER IS INDICATED ON THE DRAWINGS, PROVIDE THE FOLLOWING MINIMUM CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3 INCHES
#6 BARS AND LARGER EXPOSED TO EARTH OR WEATHER:	2 INCHES
#5 BARS AND SMALLER EXPOSED TO EARTH OR WEATHER:	1-1/2 INCHES
BEAM AND COLUMN TIES, STIRRUPS AND SPIRALS:	1-1/2 INCHES
ELEVATED SLAB BARS NOT EXPOSED TO EARTH OR WEATHER:	3/4 INCH

REINFORCING STEEL SHALL NOT BE TACK WELDED, WELDED, HEATED OR CUT UNLESS INDICATED ON THE CONTRACT DOCUMENTS OR APPROVED BY THE STRUCTURAL ENGINEER.

WHERE LAP SPLICE LENGTHS ARE NOT SHOWN OR NOTED, PROVIDE A CLASS "B" LAP.

ALL 90 DEGREE AND 180 DEGREE BENDS SHOWN ON THE DRAWINGS SHALL BE STANDARD HOOKS, UNLESS NOTED OTHERWISE.

PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT CORNERS OF ALL WALLS AND GRADE BEAMS. LAP SPLICE CORNER BARS WITH STRAIGHT BARS.

UNLESS OTHERWISE SHOWN OR NOTED, PROVIDE 2-#5 BARS (ONE EACH FACE) AROUND UNFRAMED OPENINGS IN CONCRETE WALLS AND GRADE BEAMS. PLACE BARS PARALLEL TO THE SIDES OF THE OPENING AND EXTEND 24" BEYOND CORNERS.

WELDABLE REINFORCING STEEL

REINFORCING STEEL WHICH IS TO BE WELDED SHALL CONFORM TO ASTM A706. WELDING OF REINFORCING STEEL, WHEN APPROVED BY THE STRUCTURAL ENGINEER, SHALL CONFORM TO THE LATEST EDITION OF AMERICAN WELDING SOCIETY STANDARD D1.4. ELECTRODES FOR SHOP AND FIELD WELDING OF REINFORCING STEEL SHALL CONFORM TO ASTM A233, CLASS E90XX.

WELDED WIRE FABRIC

WELDED WIRE FABRIC SHALL BE SMOOTH WIRE FABRIC CONFORMING TO ASTM A185. FABRIC SHALL BE SUPPLIED IN FLAT SHEETS AND LAPPED A MINIMUM OF ONE SPACE PLUS 2 INCHES.

WELDED WIRE FABRIC SHALL BE PLACED AS FOLLOWS, UNLESS NOTED OTHERWISE:
SLABS ON METAL DECK: 3/4 INCH DOWN FROM TOP OF SLAB.

FIBER REINFORCEMENT

FIBER REINFORCEMENT SHALL BE 3/4" LONG, VIRGIN (NON-RECYCLED) NYLON OR POLYPROPYLENE FIBERS, INTRODUCED INTO THE CONCRETE MIX AT THE BATCH PLANT, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DOSAGE SHALL BE 1.5 POUNDS PER CUBIC YARD OF CONCRETE.

CONCRETE TESTING

MAKE ONE SET OF TEST CYLINDERS IN ACCORDANCE WITH ASTM C31 FOR EACH DAY'S POUR AND FOR EACH 100 CUBIC YARDS. EACH SET SHALL INCLUDE ONE SPECIMEN TESTED AT 7 DAYS, 2 SPECIMENS TESTED AT 28 DAYS AND ONE SPECIMEN RETAINED IN RESERVE TO BE TESTED AT THE DIRECTION OF THE STRUCTURAL ENGINEER. SPARE CYLINDER MAY BE DISCARDED 90 DAYS AFTER CASTING UNLESS
DIRECTED OTHERWISE BY THE STRUCTURAL ENGINEER. THIS SET OF TEST CYLINDERS SHALL BE PROTECTED AGAINST FREEZING.

WHEN THE AMBIENT TEMPERATURE IS EXPECTED TO FALL BELOW 40 DEGREES DURING THE COURSE OF A CONCRETE POUR OR SUBSEQUENT CURING PROCESS, AN ADDITIONAL SET OF CONCRETE TEST CYLINDERS SHALL BE MADE AND TESTED. THESE CYLINDERS SHALL BE STORED IMMEDIATELY ADJACENT TO, AND CURED UNDER THE SAME CONDITIONS AS THE BUILDING CONCRETE. SPECIAL CURING BOXES ARE NOT PERMITTED FOR THESE TEST CYLINDERS.

FORWARD COPIES OF TEST RESULTS TO THE ARCHITECT, STRUCTURAL ENGINEER, READY-MIX SUPPLIER AND CONTRACTOR WITHIN 24 HOURS AFTER TESTING.

EXPANSION ANCHORS

EXPANSION ANCHORS SHALL BE CARBON STEEL ANCHORS AS MANUFACTURED BY HILTI FASTENING SYSTEMS OR AN EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER AND SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

EXPANSION ANCHORS SHALL NOT BE INSTALLED IN CONCRETE UNTIL IT HAS ATTAINED ITS SPECIFIED MINIMUM 28 DAY COMPRESSIVE STRENGTH.

ADHESIVE ANCHORS

ADHESIVE ANCHORS SHALL BE HILTI "HIT HY200" FOR SOLID SUBSTRATE AND HILTI "HIT HY270" FOR HOLLOW SUBSTRATE OR AN EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER, UNLESS NOTED OTHERWISE ON PLANS. ANCHORS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS BY INSTALLERS TRAINED BY THE MANUFACTURER'S REPRESENTATIVE.

MINIMUM EMBEDMENT DEPTH SHALL BE 8 BOLT DIAMETERS UNLESS NOTED OTHERWISE.

NON-SHRINK GROUT

GROUT SHALL BE A NON-METALLIC, SHRINKAGE RESISTANT (WHEN TESTED IN ACCORDANCE WITH THE LATEST EDITION OF ASTM C827 OR CRD-C621), PREMIXED, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING PORTLAND CEMENT, SILICA SANDS, SHRINKAGE COMPENSATING AGENTS AND FLUIDITY IMPROVING COMPOUNDS. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F'C) OF 5,000 PSI IN 28 DAYS.

WATERSTOPS

SELF-EXPANDING STRIP WATER STOPS SHALL BE VOLCLAY WATERSTOP-RX 101 UNLESS NOTED OTHERWISE. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

PVC WATERSTOPS

PROVIDE FACTORY MADE WATERSTOP FABRICATIONS FOR ALL CHANGES OF DIRECTION, INTERSECTIONS, AND TRANSITIONS LEAVING ONLY STRAIGHT BUTT JOINT SPLICES FOR THE FIELD.

PROVIDE HOG RINGS OR GROMMETS SPACED AT 12 INCHES ON CENTER ALONG LENGTH OF WATERSTOP.

PROVIDE TEFLON COATED THERMOSTATICALLY CONTROLLED WATERSTOP SPLICING IRONS FOR FIELD BUTT SPLICES.

FIELD BUTT SPLICES SHALL BE HEAT FUSED WELDED USING A TEFLON COATED THERMOSTATICALLY CONTROLLED WATERSTOP SPLICING IRON AT APPROXIMATELY 380 DEGREES F. FOLLOW APPROVED MANUFACTURER RECOMMENDATIONS.

LAPPING OF WATERSTOP, USE OF ADHESIVES, OR SOLVENTS SHALL NOT BE ALLOWED.

CENTER WATERSTOP IN JOINT AND SECURE WATERSTOP IN CORRECT POSITION USING HOG RINGS OR GROMMETS SPACED AT 12 INCHES ON CENTER ALONG THE LENGTH OF THE WATERSTOP AND WIRE TIE TO ADJACENT REINFORCING STEEL.

MASTIC COATING

MASTIC COATING FOR PROTECTION OF INDICATED ITEMS SHALL BE BITUMASTIC 50 COAL TAR MASTIC BY CARBOLINE OR EQUIVALENT SUBSTITUTE APPROVED BY THESTRUCTURAL ENGINEER. INSTALL AT LOCATIONS INDICATED ON DRAWINGS.

UNLESS NOTED OTHERWISE, APPLY MASTIC TO A COATING THICKNESS OF 18 MILS. PROVIDE FULL COVERAGE OVER ITEMS INDICATED TO RECEIVE COATING.

STRUCTURAL STEEL

STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE ANSI/AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION WITH AMENDMENTS, AND THE AISC 303 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, LATEST EDITION WITH AMENDMENTS.

STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, 50 KSI.

STRUCTURAL STEEL PLATES AND ROLLED SHAPES OTHER THAN WIDE-FLANGE SHAPES SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500, GRADE C.

STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, GRADE B.

ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE.

STEEL STUDS SHALL CONFORM TO ASTM A108.

BOLTED CONNECTIONS SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS OF THE ENGINEERING FOUNDATION. BOLTED CONNECTIONS FOR STRUCTURAL STEEL MEMBERS SHALL BE MADE WITH 3/4" DIAMETER A325 BOLTS, UNLESS NOTED OTHERWISE. BOLTED CONNECTIONS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION, EXCEPT BOLTED CONNECTIONS IN BRACE ELEMENTS ARE TO BE FULLY PRETENSIONED WITH CLASS A FAYING SURFACES.

WELDING PROCEDURES SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE FOR STEEL ANSI/AWS D1.1.

WELDED CONNECTIONS USING ASTM A992 STEEL AS A BASE METAL SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES. UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS, OTHER WELDED CONNECTIONS MAY BE MADE WITH STANDARD E70XX ELECTRODES.

STRUCTURAL STEEL THAT RECEIVES FINISH PAINT SHALL BE SHOP-PRIMED WITH A RUST-INHIBITING PRIMER, UNLESS NOTED OTHERWISE ON THE DRAWINGS. CONTRACTOR SHALL VERIFY PRIMER IS COMPATIBLE WITH FINISH COAT SYSTEM SPECIFIED BY THE ARCHITECT. COORDINATE FINISH PAINTING REQUIREMENTS WITH THE ARCHITECT.

STRUCTURAL STEEL THAT IS NOT EXPOSED IN THE FINISHED CONSTRUCTION AND DOES NOT RECEIVE FINISH PAINT SHALL NOT BE SHOP-PRIMED, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

STRUCTURAL STEEL NOTED TO BE GALVANIZED SHALL BE HOT-DIP GALVANIZED IN CONFORMANCE WITH ASTM A123.

DO NOT PAINT OR GALVANIZE THE FOLLOWING SURFACES:
1. SURFACES TO BE WELDED.
2. SURFACES TO RECEIVE BOLTED SLIP-CRITICAL CONNECTIONS.
3. SURFACES TO RECEIVE SHEAR STUD CONNECTIONS.
4. SURFACES TO RECEIVE SPRAYED-ON FIREPROOFING.

ALL ABRASIONS TO GALVANIZED SURFACES OR SURFACES TO RECEIVE AN ARCHITECTURAL FINISH COAT SHALL BE TOUCHED-UP AFTER ERECTION IS COMPLETE. FOR PAINTED STEEL, USE A PRIMER EQUIVALENT TO THE SHOP PAINT. FOR GALVANIZED STEEL, USE A ZINC-RICH COLD-GALVANIZING PAINT.

DESIGN CONNECTIONS NOT SHOWN IN ACCORDANCE WITH THE ASD SPECIFICATION AND MANUAL OF STEEL CONSTRUCTION. UNLESS NOTED OTHERWISE ON THE DRAWINGS, DESIGN BEAM CONNECTIONS NOT SHOWN, TO SUPPORT A MINIMUM OF A 10 KIP SHEAR REACTION. PROVIDE NO LESS THAN 2 BOLTS IN ANY SINGLE LINE OF BOLTS, UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS.

PROVIDE L4X4X1/4 FRAMED OPENINGS FOR ALL ROOF PENETRATIONS 12 INCHES OR LARGER ALONG ANY SIDE, UNLESS LARGER FRAMING IS INDICATED. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR PENETRATIONS. COORDINATE FRAMED OPENING SIZES AND LOCATIONS WITH THE MECHANICAL AND PLUMBING CONTRACTORS.

GALVANIZE ALL EXPOSED STEEL.

STEEL ROOF DECK

PROVIDE AND ERECT STEEL DECK IN ACCORDANCE WITH THE LATEST EDITION OF THE STEEL DECK INSTITUTE'S SPECIFICATIONS AND CODE OF STANDARD PRACTICE.

DECK MANUFACTURER SHALL PROVIDE ALL ROOF DECK ACCESSORIES, INCLUDING CLOSURES, SUPPLEMENTARY FRAMING, AND SUMP PANS, WHETHER OR NOT SUCH ITEMS ARE DETAILED ON THE CONTRACT DOCUMENTS.

FASTEN ROOF DECK TO STEEL SUPPORTS AS INDICATED ON THE DRAWINGS. PERFORM WELDING IN ACCORDANCE WITH ANSI/AWS D1.3.

ROOF DECK SHALL BE INSTALLED IN A MINIMUM THREE SPAN CONDITION.

PROVIDE STEEL ROOF DECK WITH FINISH AS INDICATED ON THE DRAWINGS.

COMPOSITE STEEL BEAMS

COMPOSITE BEAM SHEAR CONNECTORS SHALL BE NELSON STUD TYPE S3L AS MANUFACTURED BY THE NELSON STUD WELDING COMPANY, OR AN EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER.

STUDS SHALL BE MANUFACTURED OF COLD-DRAWN STEEL CONFORMING TO ASTM A108. STUDS SHALL BE 1/2" DIAMETER X 3 INCHES LONG @ 24" OC, UNLESS NOTED OTHERWISE. STUD DESIGN HAS BEEN BASED ON AN ULTIMATE SHEAR CAPACITY OF 17.7 KIPS PER STUD.

COMPOSITE STEEL BEAMS HAVE BEEN DESIGNED TO ALLOW INSTALLATION OF THE SLAB CONCRETE IN AN UNSHORED CONDITION UNLESS NOTED OTHERWISE.

STEEL FLOOR DECK

PROVIDE AND ERECT STEEL DECK IN ACCORDANCE WITH THE LATEST EDITION OF THE STEEL DECK INSTITUTE'S SPECIFICATIONS AND CODE OF STANDARD PRACTICE.

DECK MANUFACTURER SHALL PROVIDE ALL FLOOR DECK ACCESSORIES, SUCH AS EDGE FORMS, CLOSURES, FILLERS AND POUR STOPS FOR A COMPLETE INSTALLATION, WHETHER OR NOT SUCH ITEMS ARE DETAILED ON THE CONTRACT DOCUMENTS.

FASTEN FLOOR DECK TO STEEL SUPPORTS AS INDICATED ON THE DRAWINGS. PERFORM WELDING IN ACCORDANCE WITH ANSI/AWS D1.3.

STEEL FLOOR DECK IS INTENDED TO BE INSTALLED IN AN UNSHORED CONDITION UNLESS NOTED OTHERWISE. DECK SUPPLIER SHALL REVIEW ALL SPAN CONDITIONS AND CONFIRM THAT THE SUPPLIED PRODUCT IS SUFFICIENT TO SAFELY SUPPORT THE WET WEIGHT OF CONCRETE AND ASSOCIATED CONSTRUCTION LIVE LOADS WITHOUT THE NEED FOR SHORING.

FLOOR DECK UNITS SHALL BE INSTALLED IN A MINIMUM THREE SPAN CONDITION.

PROVIDE INTERIOR STEEL FLOOR DECK WITH FINISH AS INDICATED ON THE DRAWINGS.

PROVIDE FLOOR DECK SUPPORTING EXTERIOR SLABS WITH A GALVANIZED FINISH IN ACCORDANCE WITH ASTM A924 G90.

PREFABRICATED, COLD-FORMED (LIGHT GA.) METAL TRUSSES

METAL TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE FOLLOWING CRITERIA:

1. ROOF TRUSSES:
   TOP CHORD LOADING: REFERENCE THE DESIGN DATA
2. TRUSSES SHALL MEET THE FOLLOWING DEFLECTION CRITERIA, UNLESS OTHERWISE NOTED. MAXIMUM LIVE LOAD DEFLECTION SHALL NOT EXCEED:

   A. ROOFS L/360

METAL TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL STRUCTURAL FRAMING (AISI), STRUCTURAL BUILDING COMPONENTS ASSOCIATION (SBCA) AND THE STATE BUILDING CODE IN WHICH THE PROJECT IS LOCATED.

STEEL SHEET SHALL CONFORM TO ASTM A1003.

SECONDARY BENDING STRESSES IN TRUSS TOP AND BOTTOM CHORDS DUE TO DEAD, LIVE, AND WIND LOADS SHALL BE CONSIDERED IN THE DESIGN.

ALL GIRDER TRUSSES SUPPORTING OTHER METAL TRUSSES OR PURLINS/JOISTS SHALL BE A MINIMUM OF (2) PLIES, UNLESS OTHERWISE APPROVED. REFER TO THE MANUFACTURER'S TRUSS DESIGN DRAWING FOR GIRDER PLY-TO-PLY CONNECTION REQUIREMENTS. ATTACH FRAMING MEMBERS OR LOADS ONLY AFTER ALL GIRDER PLIES ARE IN PLACE AND PROPERLY FASTENED TOGETHER, AND THE GIRDER TRUSS IS PROPERLY BRACED TO PREVENT LATERAL DISPLACEMENT.

TRUSS-TO-GIRDER CONNECTION INFORMATION SHALL BE ON THE MFR'S TRUSS DESIGN DRAWING OF THE CARRIED TRUSS OR GIRDER TRUSS, OR THE MFR'S TRUSS PLACEMENT DRAWING. UNLESS OTHERWISE APPROVED, ALL TRUSS/JOIST HANGERS, STRAPPING, TIES, ETC. SHALL BE AS MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY.

UNLESS OTHERWISE SHOWN OR NOTED, ALL TRUSS BEARINGS SHALL BE ANCHORED USING A MECHANICAL FASTENER AS DESIGNED BY THE TRUSS MANUFACTURER.

METAL TRUSSES SHALL BE ERECTED IN ACCORDANCE WITH THE TRUSS MANUFACTURER'S REQUIREMENTS. THIS WORK SHALL BE DONE BY A QUALIFIED AND EXPERIENCED CONTRACTOR. TRUSS ERECTION BY AN INEXPERIENCED OR NON-QUALIFIED CONTRACTOR CAN RESULT IN CONSTRUCTION COLLAPSE AND/OR SERIOUS INJURY DAMAGE.

THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY AND PERMANENT BRACING/RESTRAINTS AS REQUIRED FOR SAFE ERECTION AND PERFORMANCE OF THE TRUSSES. THE GUIDELINES SET FORTH BY THE FOLLOWING PUBLICATIONS OF THE STRUCTURAL BUILDING COMPONENTS ASSOCIATION (SBCA) SHALL BE ADHERED TO UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS:

CFSBCSI-B1 GUIDE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF TRUSSES
CFSBCSI-B2 TRUSS INSTALLATION & TEMPORARY RESTRAINT/BRACING
CFSBCSI-B3 PERMANENT RESTRAINT/BRACING OF CHORDS & WEB MEMBERS
CFSBCSI-B4 CONSTRUCTION LOADING
CFSBCSI-B5 TRUSS DAMAGE, JOBSITE MODIFICATIONS, AND INSTALLATION ERRORS
CFSBCSI-B11 FALL PROTECTION & TRUSSES

UNLESS OTHERWISE SHOWN OR NOTED, PERMANENT BRACING/RESTRAINT SHALL CONSIST OF A MINIMUM OF 150F125-33 FURRING CHANNELS OR 250S162-33 STUDS SPANNING A MINIMUM OF THREE TRUSSES AND FASTENED AT EACH INTERSECTION WITH A MINIMUM OF (2) #10SDS. LAP CONTINUOUS BRACING/RESTRAINT A MINIMUM OF 4'-0" (2 TRUSSES).

REFER TO MANUFACTURER'S TRUSS DESIGN DRAWING FOR WEB MEMBERS REQUIRING WEB MEMBER PERMANENT RESTRAINT OR REINFORCEMENT. CONTINUOUS LATERAL RESTRAINTS MUST ALWAYS BE DIAGONALLY BRACED FOR RIGIDITY.

WHEREVER POSSIBLE, THE TEMPORARY ERECTION BRACING AS DESCRIBED IN CFSBCSI-B2 SHALL BE LEFT IN PLACE TO FUNCTION AS PERMANENT BRACING.

TRUSSES WHICH ARE TOO TALL FOR DELIVERY TO THE JOBSITE IN ONE PIECE MAY BE MANUFACTURED IN TWO OR MORE SECTIONS AND "PIGGYBACKED" AT THE JOBSITE. THE CONTRACTOR MUST INSTALL TEMPORARY AND PERMANENT BRACING FOR THE LOWER SUPPORTING TRUSSES AS SHOWN ON THE MANUFACTURER'S TRUSS DESIGN DRAWING AND/OR THE CONTRACT DOCUMENTS BEFORE INSTALLING THE CAP TRUSSES. THE CONNECTION BETWEEN THE CAP AND BASE TRUSS SHALL BE SHOWN ON THE SEALED TRUSS DESIGN DRAWING. PROVIDE, AS MINIMUM, FURRING CHANNEL PURLINS LAID ON THE TOP CHORD OF THE SUPPORTING TRUSSES, SPACED AT 24" O.C. MAXIMUM AND ADEQUATELY FASTENED TO THE TOP CHORD (SEE TRUSS DESIGN DRAWING FOR ANY OTHER OR ADDITIONAL REQUIREMENT). PROVIDE 4' O.C. (BRACE TO BRACE) DIAGONAL BRACING AT 45 DEGREES TO BRACE THE PURLINS. INSTALL DIAGONAL BRACES ON THE BOTTOM SIDE OF THE TOP CHORD IN THE CAP AREA, UNLESS OTHERWISE SPECIFIED BY THE TRUSS DESIGN ENGINEER.

TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED NOR OTHERWISE ALTERED IN ANY WAY WITHOUT THE WRITTEN APPROVAL OF THE TRUSS DESIGN ENGINEER (SEE SPECIALTY STRUCTURAL ENGINEER NOTES).

COORDINATE FINAL TRUSS LAYOUT AND TRUSS WEB MEMBER CONFIGURATION WITH MECHANICAL, ELECTRICAL AND PLUMBING TRADES. KEEP ALL MECHANICAL CHASES FREE OF TRUSSES. ALIGN FLOOR TRUSS WEB LAYOUT, INCLUDING OPEN VIERENDEEL PANELS FOR ALL PARALLEL TRUSSES WITH SIMILAR SPANS TO PROVIDE MAXIMUM FLEXIBILITY OF MEP INSTALLATION. DO NOT LOCATE TRUSSES AT PARALLEL PLUMBING WALLS.

SUBMIT COMPLETE SHOP DRAWINGS FOR ALL METAL TRUSSES SHOWING MEMBER SIZES, CAMBER, DIMENSIONS, NUMBER OF PLIES AND TRUSS PLY-TO-PLY CONNECTIONS, REACTIONS AND BEARING REQUIREMENTS, CHORD PITCH, RESTRAINT/BRACING REQUIREMENTS, AND LOADINGS INCLUDING ANY GIRDER LOADS, FIELD ASSEMBLY OF MULTI-PART TRUSSES, AND REQUIRED CAP TRUSS TO BASE TRUSS CONNECTION. NO REFERENCE TO ANOTHER DRAWING SHEET, NOTE EXTERNAL TO THAT INDIVIDUAL TRUSS DRAWING, OR DETAIL NOT SHOWN ON THAT INDIVIDUAL TRUSS DRAWING MAY BE USED TO CONVEY ANY OF THIS REQUIRED INFORMATION. SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD AND SHALL BEAR THE SEAL OF THE SPECIALTY STRUCTURAL ENGINEER.

LIGHT GAGE METAL FRAMING

DESIGN, FABRICATION AND ERECTION OF LIGHT GAGE METAL FRAMING SHALL COMPLY WITH REQUIREMENTS OF: AISC "MANUAL OF STEEL CONSTRUCTION" AND AISC "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMEBERS"

ARCHITECTURAL PRECAST PANELS

SUPPLIER OF ARCHITECTURAL PRECAST PANELS IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF THE PANELS AND CONNECTIONS.

STEEL REQUIRED TO TRANSMIT THE GRAVITY AND/OR LATERAL LOADS TO THE STRUCTURE NOT DETAILED ON THE STRUCTURAL DRAWINGS IS THE RESPONSIBILITY OF THE PRECAST SUPPLIER TO DESIGN AND DETAIL.

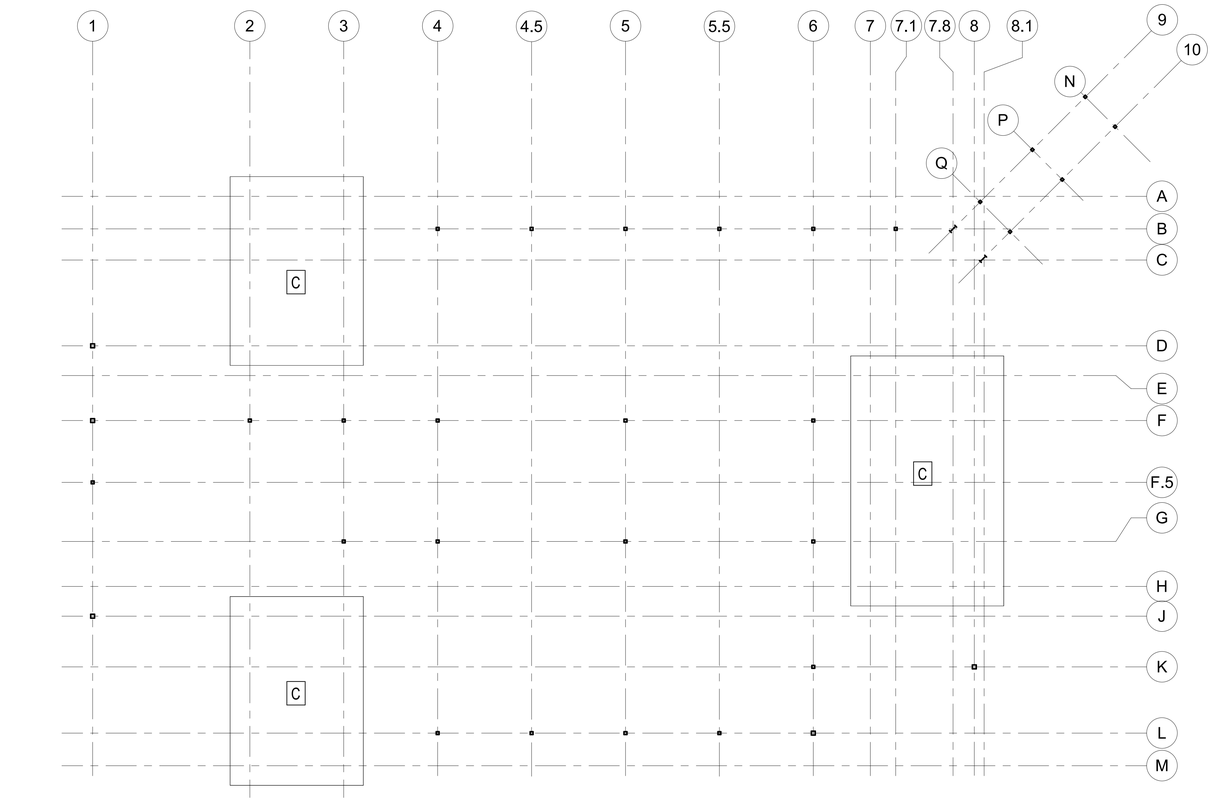
PRECAST PANELS TO BE DESIGNED FOR VEHICULAR IMPACT LOADING PER ASCE7.

GRAVITY CONNECTIONS SHALL NOT BE MADE TO BEAMS, JOISTS, OR JOIST GIRDERS WITHOUT PERMISSION OF THE STRUCTURAL ENGINEER, UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS.

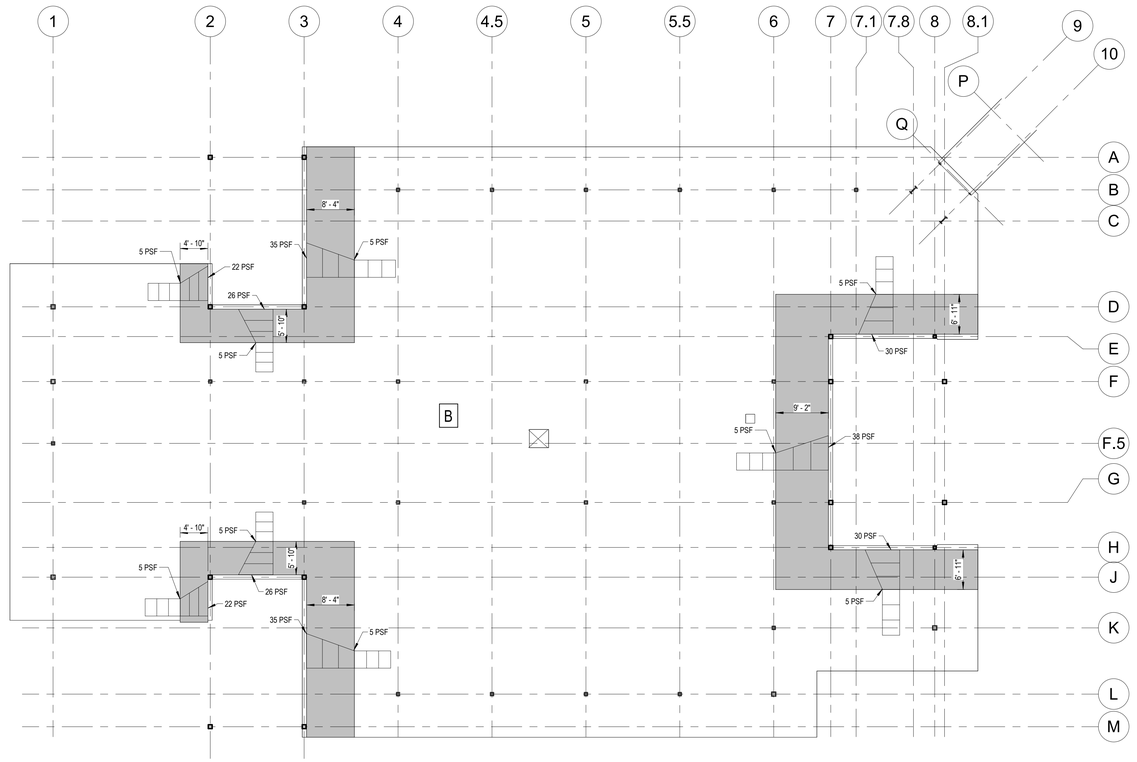
CONNECTIONS TO TRANSMIT LATERAL LOADS TO THE STRUCTURE SHALL BE MADE ONLY TO A COLUMN OR THE TOP FLANGE OF A STEEL BEAM, OR THE TOP CHORD OF A STEEL JOIST OR JOIST GIRDER AT A TOP CHORD PANEL POINT. CONNECTIONS TO TRANSMIT LATERAL LOADS TO THE STRUCTURE SHALL NOT BE MADE TO THE BOTTOM FLANGES OF BEAMS, BOTTOM CHORDS OF JOIST GIRDERS OR BOTTOM CHORDS OF JOISTS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.

PRECAST CONCRETE CONNECTIONS SHOWN ON DRAWINGS SHALL BE PROVIDED AS SHOWN, BY THE STEEL FABRICATOR. IF DETAILS NEED TO BE ADJUSTED BASED ON AN INDIVIDUAL PRECAST MANUFACTURER'S DETAILS, THE MANUFACTURER MUST
INFORM THE STEEL FABRICATOR PRIOR TO FABRICATION OF THE STEEL. CHANGES REQUIRED AFTER THE STEEL IS FABRICATED SHALL BE THE SOLE RESPONSIBILITY OF THE PRECAST MANUFACTURER (INCLUDING ENGINEERING, MATERIAL AND INSTALLATION).

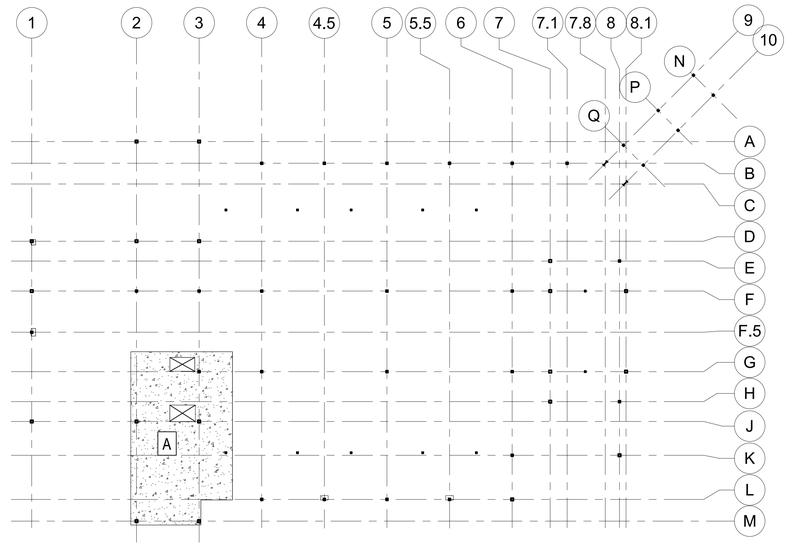
PRECAST CONCRETE SPANDREL PANELS SHALL NOT BE ERECTED AT ANY LEVEL PRIOR TO PLACEMENT OF FLOOR OR ROOF DECK ON THAT LEVEL.



1 SI003 LOAD MAP @ CLEAR STORY ROOFS
SCALE: 3/32" = 1'-0"



2 SI003 LOAD MAP @ ROOF
SCALE: 3/32" = 1'-0"



4 SI003 LOAD MAP @ ELEVATED BASEMENT SLAB
SCALE: 1/16" = 1'-0"

FLOOR LOAD SCHEDULE

MARK	OCCUPANCY/USE	SDL		SDL		LL	SL
		DEAD LOAD (PSF)	DESCRIPTION	POINT LOAD (LBS)	DESCRIPTION	LIVE LOAD (PSF)	SNOW LOAD (PSF)
A	TYPICAL FLOOR	20	NOTE 1	-	-	100 (NR)	-
B	MAIN ROOF	10	NOTE 1	-	-	20 (NR)	5 MINIMUM BALANCED OR SEE LOAD MAP (DRIFT + BALANCED)
C	CLERESTORY	15	NOTE 1	-	-	20 (NR)	5 MINIMUM BALANCED OR SEE LOAD MAP (DRIFT + BALANCED)

NOTES:
1. SDL INDICATES SUPERIMPOSED DEAD LOAD AND IS DL IN ADDITION TO THE SELF WEIGHT OF THE PRIMARY STRUCTURAL SYSTEM.
2. (NR) INDICATES NON-REDUCIBLE LIVE LOAD.

DESIGN DATA

THE BUILDING STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE.

SEE LOAD MAPS FOR FLOOR LOADING CRITERIA.

SNOW LOAD DESIGN DATA
1. GROUND SNOW LOAD (PG) = 5 PSF
2. LOW-SLOPE ROOF SNOW LOAD (PF) = 4 PSF
3. SNOW EXPOSURE FACTOR (CE) = 1.0
4. THERMAL FACTOR (CT) = 1.0
5. SNOW IMPORTANCE FACTOR (IS) = 1.10
6. MINIMUM LOW-SLOPE SNOW LOAD (PM) = 6 PSF

WIND LOAD DESIGN DATA

1. BASIC WIND SPEED (3-SECOND GUST) = 115 MPH
2. WIND EXPOSURE = B
3. WIND DESIGN PRESSURE (P) = VARIES WITH HEIGHT AND LOCATION
4. INTERNAL PRESSURE COEFFICIENT (GCPI) = +/-0.18

EARTHQUAKE LOAD DESIGN DATA

1. SHORT PERIOD SPECTRAL RESPONSE (SS) = 0.187
2. 1-SECOND SPECTRAL RESPONSE (S1) = 0.085
3. SEISMIC IMPORTANCE FACTOR (IE) = 1.25
4. RISK CATEGORY = III
5. SEISMIC DESIGN CATEGORY = C
6. SITE CLASSIFICATION = D
7. SHORT PERIOD SPECTRAL RESPONSE COEFFICIENT (SDS) = 0.199
8. 1-SECOND SPECTRAL RESPONSE COEFFICIENT (SD1) = 0.135
9. BASIC STRUCTURAL SYSTEM / SEISMIC RESISTING SYSTEM: H - STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, EXCLUDING CANTILEVER COLUMN SYSTEMS
10. ANALYSIS PROCEDURE UTILIZED = EQUIVALENT LATERAL FORCE PROCEDURE
11. RESPONSE MODIFICATION COEFFICIENT (R) = 3
12. SEISMIC RESPONSE COEFFICIENT (CS) = 0.06

THE BUILDING STRUCTURE HAS BEEN DESIGNED FOR BLAST LOADING. ALL OTHER COMPONENTS, AND ANY DELEGATED EXTERIOR FACADE DESIGN SHALL BE DESIGNED FOR BLAST LOADING ACCORDING TO THE CRITERIA SET FORTH IN THE LATEST EDITION OF THE DEPARTMENT OF VETERAN AFFAIRS PHYSICAL SECURITY DESIGN MANUAL FOR ESSENTIAL FACILITIES. ALL STEEL CONNECTIONS SHALL BE DESIGNED FOR THE MAXIMUM SHEAR AND MOMENT CAPACITY OF THE MEMBER BEING CONNECTED

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON / CHARLOTTE ENGINEERS

CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
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CHARLOTTE ENGINEERS
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CHARLOTTE, NC 28212

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GEORGIA REGISTERED No. PE041693 PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	LOAD MAPS
Phase	BID DOCUMENTS
Project Title	Construct TVDD CLC 12 Beds
Project Number	508-349
Building Number	
Approved:	
	FULLY SPRINKLERED
Location	180 MARTIN DR, CARROLLTON, GA 30117
Drawing Number	SI003
Issue Date	12/16/2024
Checked	LKB
Drawn	ADK

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC/22.9003_S_v22.rvt
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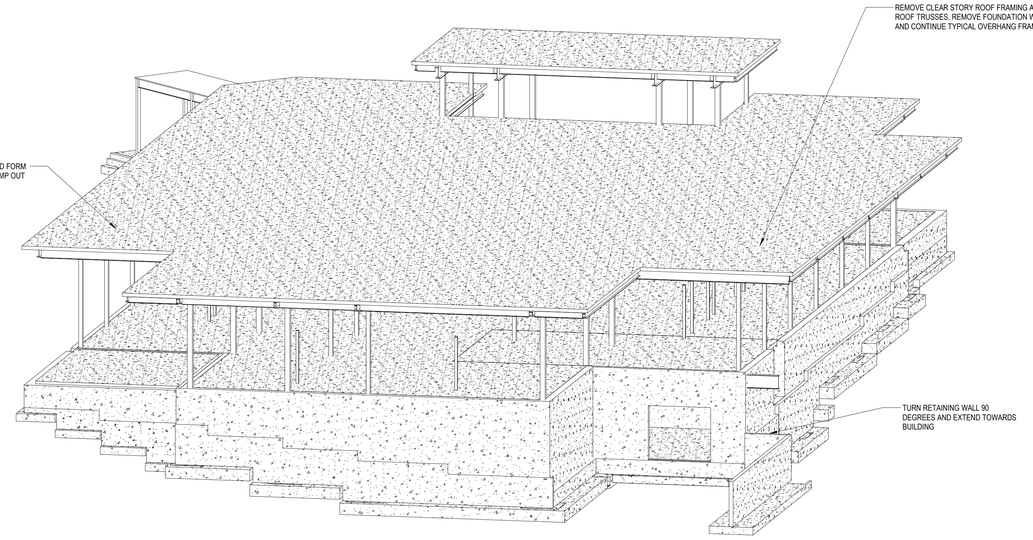
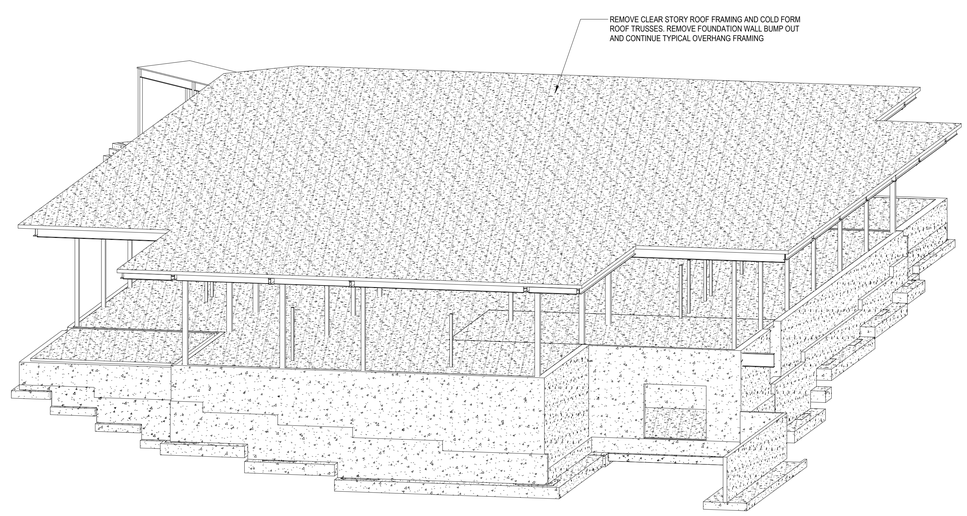


1 / S004 **BID DEDUCT C**
SCALE:



2 / S004 **BID DEDUCT D**
SCALE:

Revisions:	Date:

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CHARLOTTE ENGINEERS
5838 MONROE ROAD
CHARLOTTE, NC 28212

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BID DEDUCTS	Phase: BID DOCUMENTS	Project Title: Construct TVDD CLC 12 Beds	Project Number: 508-349
			Building Number:
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Drawing Number: SI004
		Issue Date: 12/16/2024 / Checked: LKB / Drawn: ADK	

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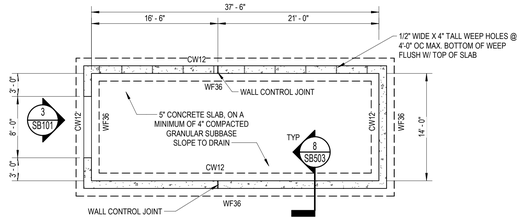
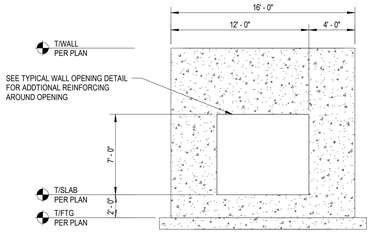


NOTES
1. REFERENCE FINISH FLOOR ELEVATION = 100'-0". USGS ELEVATION PER CIVIL DRAWINGS = 1032.20'
2. SEE S100 SHEETS FOR GENERAL PROJECT INFORMATION
3. T/FTG = 98'-0"
4. T/WALL = 112'-9". WALL HEIGHT TO BE A MINIMUM OF 2'-0" GREATER THAN SELECTED GENERATOR EQUIPMENT. CONTRACTOR TO COORDINATED WITH ALL APPLICABLE SUBCONTRACTORS AND A/E IF SELECTED EQUIPMENT DIFFERS FROM BASIS OF DESIGN

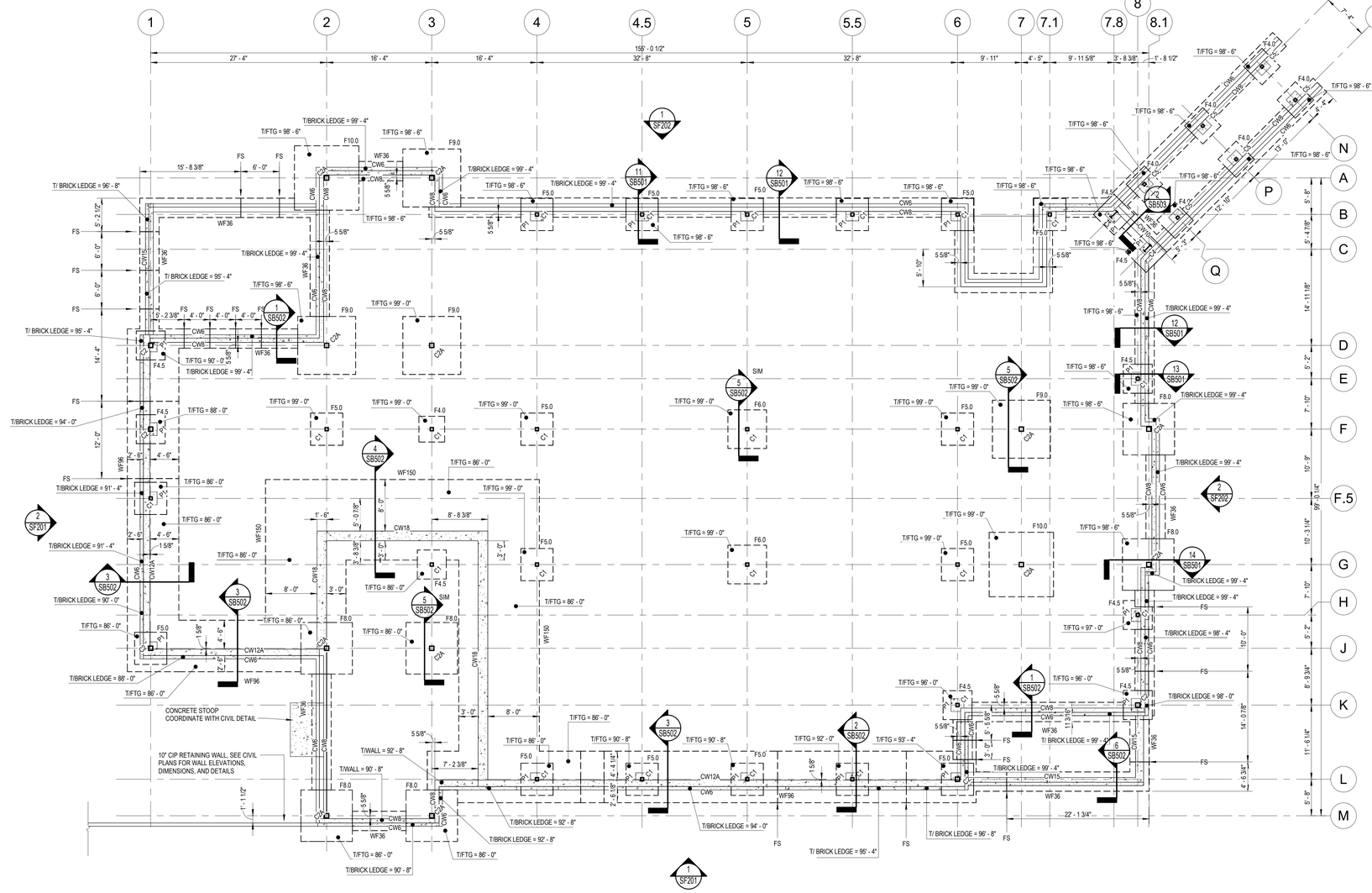
GENERATOR PAD

2 SB101 SCALE: 1/8" = 1'-0"



GENERATOR ENCLOSURE ELEVATION

3 SB101 SCALE: 3/16" = 1'-0"



FOUNDATION PLAN

1 SB101 SCALE: 1/8" = 1'-0"

NOTES
1. REFERENCE FINISH FLOOR ELEVATION = 100'-0". USGS ELEVATION PER CIVIL DRAWINGS = 1046.01'
2. SEE S100 SHEETS FOR GENERAL PROJECT INFORMATION
3. T/FTG = VARIES. SEE PLAN
4. T/FOUNDATION WALL = 100'-0" UNO
5. T/BRICK LEDGE = VARIES. SEE PLAN
6. T/PIER = 99'-4" UNO

COLUMN SCHEDULE

MARK	SIZE	Description
C1	HSS6X6X3/8	BASE PLATE 1
C2	HSS8X8X3/8	BASE PLATE 1
C2A	HSS8X8X5/8 A	BASE PLATE 2
C3	HSS4X4X1/8	BASE PLATE 4
C4	W16X26	BASE PLATE 3
C5	HSS5X5X1/2	BASE PLATE 1

NOTE:
1) ALL BASE PLATE DETAILS CAN BE FOUND ON SHEET SB503

CONCRETE PIER SCHEDULE

TYPE	SECTION LENGTH	SECTION WIDTH	REINFORCEMENT
P1	2' - 0"	2' - 0"	(8) #8 VERTICAL BARS WITH #4 TIES @ 12" OC

CONCRETE WALL SCHEDULE

MARK	WALL THICKNESS	HORIZONTAL REINF		VERTICAL REINF		REMARKS
		INSIDE FACE	OUTSIDE FACE	INSIDE FACE	OUTSIDE FACE	
CW6	6 1/4"	#5 @ 18" OC		#5 @ 18" OC		
CW8	8"	#5 @ 18" OC		#5 @ 18" OC		
CW10	10"	#5 @ 18" OC		#5 @ 18" OC		
CW12	1' - 0"	#6 @ 12" OC	#6 @ 12" OC	#6 @ 12" OC	#6 @ 12" OC	
CW12A	1' - 0"	#5 @ 12" OC	#5 @ 12" OC	#8 @ 12" OC	#8 @ 12" OC	
CW15	1' - 3"	#5 @ 12" OC	#5 @ 12" OC	#5 @ 12" OC	#5 @ 12" OC	
CW18	1' - 6"	#8 @ 12" OC	#8 @ 12" OC	#8 @ 12" OC	#8 @ 12"OC	

COLUMN FOOTING SCHEDULE

TYPE	FOOTING SIZE			REINFORCMENT	REMARKS
	WIDTH	LENGTH	DEPTH		
F4.0	4' - 0"	4' - 0"	1' - 6"	(8) #5 BOTTOM BARS EW	
F4.5	4' - 6"	4' - 6"	1' - 6"	(9) #5 BOTTOM BARS EW	
F5.0	5' - 0"	5' - 0"	1' - 6"	(9) #5 BOTTOM BARS EW	
F6.0	6' - 0"	6' - 0"	1' - 6"	(7) #6 BOTTOM BARS EW	
F8.0	8' - 0"	8' - 0"	1' - 6"	(8) #6 TOP AND BOTTOM BARS EW	
F9.0	9' - 0"	9' - 0"	1' - 6"	(9) #6 TOP AND BOTTOM BARS EW	
F10.0	10' - 0"	10' - 0"	2' - 0"	(9) #7 TOP AND BOTTOM BARS EW	

WALL FOOTING SCHEDULE

MARK	FOOTING SIZE		FOOTING REINFORCEMENT	REMARKS
	WIDTH	DEPTH		
WF36	3' - 0"	1' - 0"	(3) #5 BARS LONGITUDINAL, #4 BARS @ 16" OC TRANSVERSE	
WF96	8' - 0"	1' - 6"	(10) #5 LONGITUDINAL BARS TOP AND BOTTOM, #6 @ 12" TRANVSERSE BARS TOP AND BOTTOM	
WF150	12' - 6"	2' - 0"	(21) #5 LONGITUDINAL BARS TOP AND BOTTOM, #7 @ 12" TRANSVERSE BARS TOP AND BOTTOM	

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
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GEORGIA REGISTERED No. PE041693 PROFESSIONAL LIFE ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	FOUNDATION PLANS
Phase	BID DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	Construct TVDD CLC 12 Beds
Location	180 MARTIN DR, CARROLLTON, GA 30117
Issue Date	12/16/2024
Checked	LKL
Drawn	ADK
Project Number	508-349
Building Number	
Drawing Number	SB101

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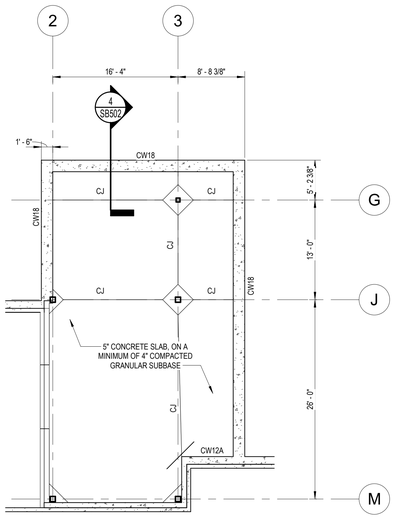
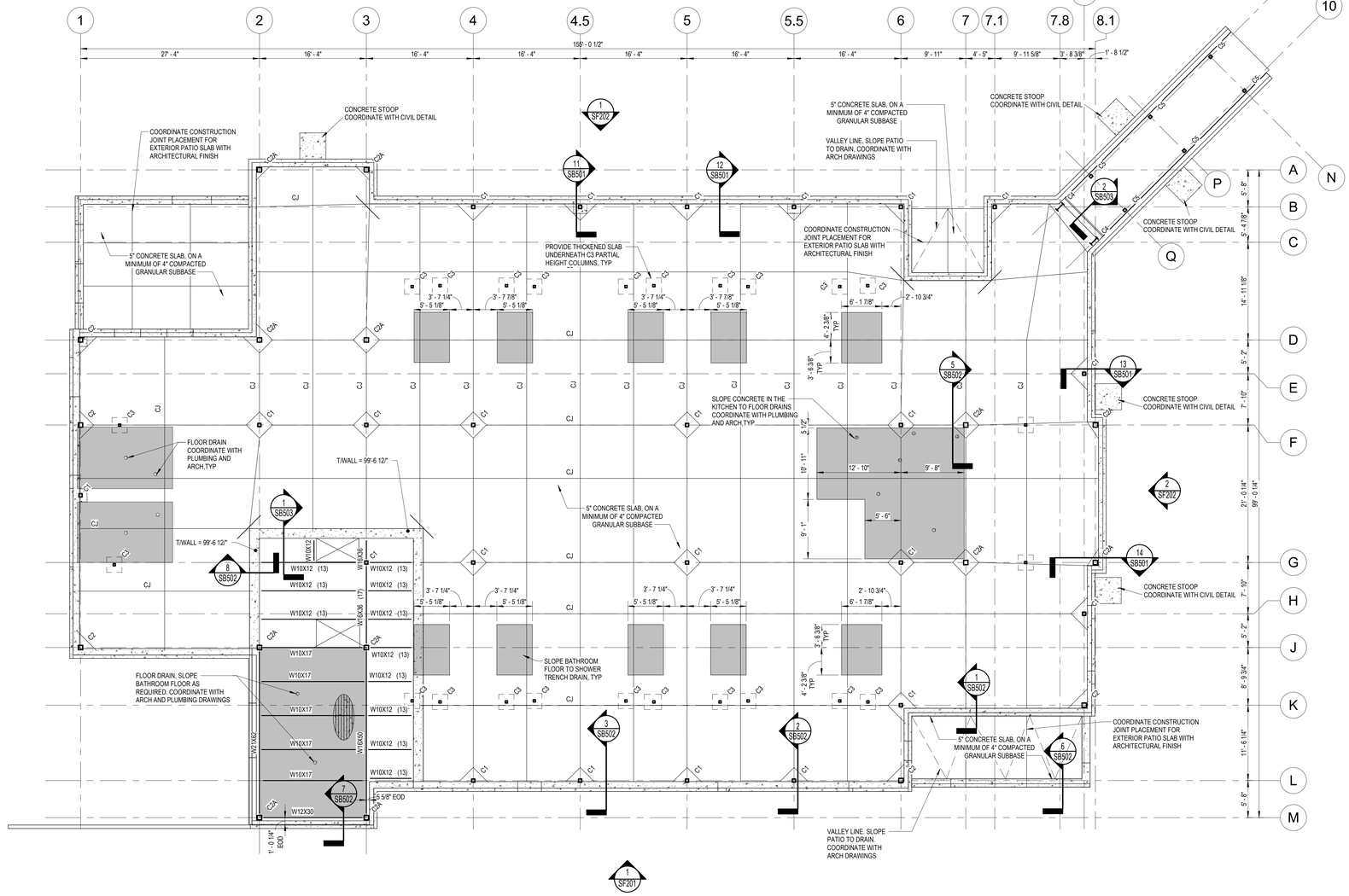


SLAB ON GRADE PLAN @ BASEMENT

2 / SB102 SCALE: 1/8" = 1'-0"



SLAB-ON-GRADE PLAN

1 / SB102 SCALE: 1/8" = 1'-0"

NOTES

1. REFERENCE FINISH FLOOR ELEVATION = 100'-0". USGS ELEVATION PER CIVIL DRAWINGS = 1046.01'
2. SEE SI00 SHEETS FOR GENERAL PROJECT INFORMATION
3. T/STEEL = 99'-6 1/2".
4. C3 COLUMNS DEPICTED ON THIS SHEET ARE PARTIAL HEIGHT WALL COLUMNS. COORDINATE EXACT LOCATION AND HEIGHT WITH ARCHITECTURE DRAWINGS. ORIENT BASE PLATE TO FIT IN ARCHITECTURAL WALL
5. COORDINATE EXACT OPENING LOCATIONS IN SLAB WITH MECHANICAL AND ARCHITECTURAL DRAWINGS
6. ALL SLAB AREAS DENOTING SLOPING CONCRETE FOR DRAINAGE TO BE COORDINATED WITH ARCHITECTURE AND PLUMBING DRAWINGS

COLUMN SCHEDULE

MARK	SIZE	Description
C1	HSS6X6X3/8	BASE PLATE 1
C2	HSS8X8X5/8	BASE PLATE 1
C2A	HSS8X8X5/8 A	BASE PLATE 2
C3	HSS4X4X1/8	BASE PLATE 4
C4	W16X26	BASE PLATE 3
C5	HSS5X5X1/2	BASE PLATE 1

Revisions:	Date:

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GEORGIA REGISTERED No. PE041693 PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SLAB-ON GRADE PLAN	Phase: BID DOCUMENTS	Project Title: Construct TVDD CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 / Checked: LKL / Drawn: ADK	Drawing Number: SB102

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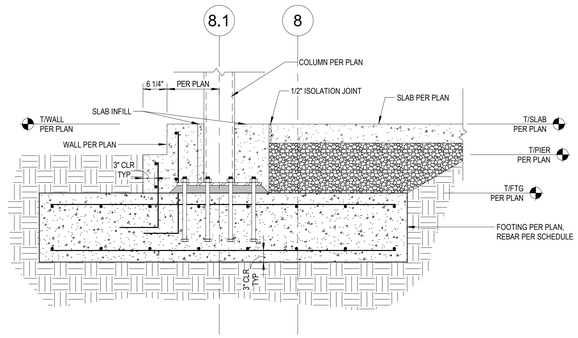
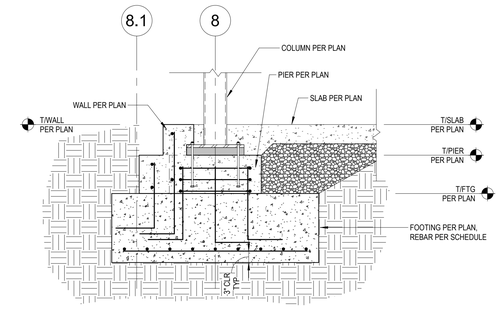
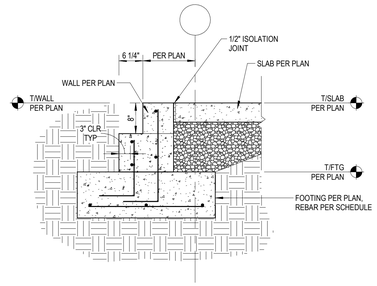


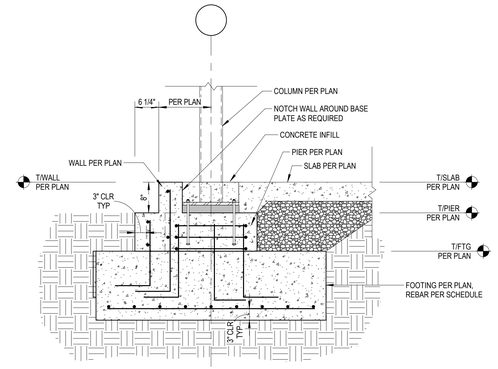
14 SB501 **FOUNDATION SECTION**
SCALE: 3/4" = 1'-0"



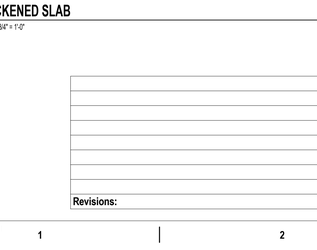
13 SB501 **FOUNDATION SECTION**
SCALE: 3/4" = 1'-0"



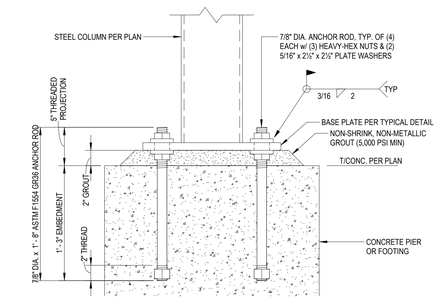
12 SB501 **FOUNDATION SECTION**
SCALE: 3/4" = 1'-0"



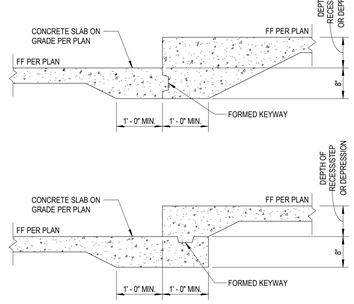
11 SB501 **FOUNDATION SECTION**
SCALE: 3/4" = 1'-0"



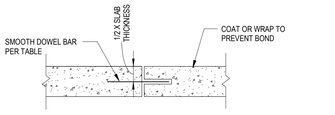
10 SB501 **TYPICAL PIER REINFORCING DETAIL**
SCALE: 3/4" = 1'-0"



9 SB501 **7/8" DIA. ANCHOR BOLT DETAIL**
SCALE: 1 1/2" = 1'-0"



8 SB501 **TYPICAL RECESSED SLAB DETAIL**
SCALE: 3/4" = 1'-0"

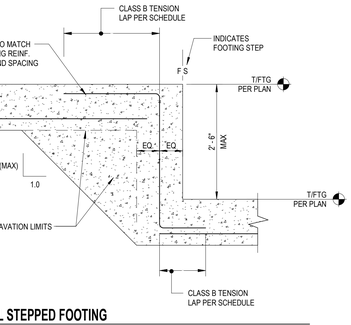


CONTROL JOINT

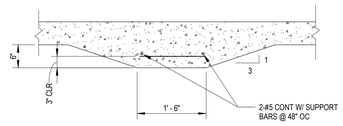
CONSTRUCTION JOINT

DOWEL SIZE AND SPACING			
SLAB DEPTH	DOWEL DIAMETER	TOTAL DOWEL LENGTH	DOWEL SPACING CENTER TO CENTER
IN	IN	IN	IN
4	3/4	16	24
5-6	3/4	16	12
7-8	1	18	12
9-11	1 1/4	18	12

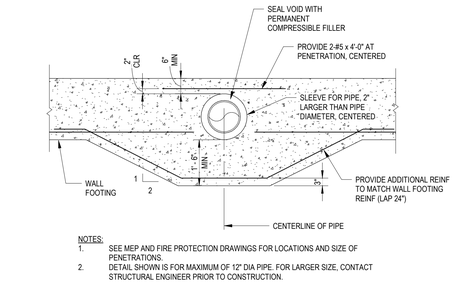
7 SB501 **TYPICAL SLAB ON GRADE JOINTS**
SCALE: 3/4" = 1'-0"



6 SB501 **TYPICAL STEPPED FOOTING**
SCALE: 3/4" = 1'-0"

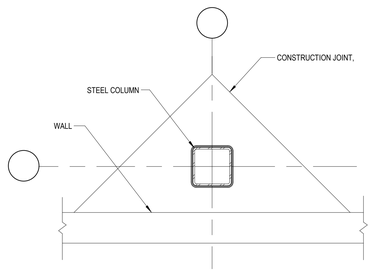


5 SB501 **THICKENED SLAB**
SCALE: 3/4" = 1'-0"

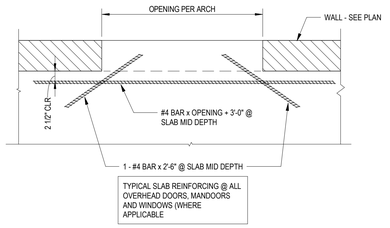


NOTES:
1. SEE MEP AND FIRE PROTECTION DRAWINGS FOR LOCATIONS AND SIZE OF PENETRATIONS.
2. DETAIL SHOWN IS FOR MAXIMUM OF 12" DIA PIPE. FOR LARGER SIZE, CONTACT STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

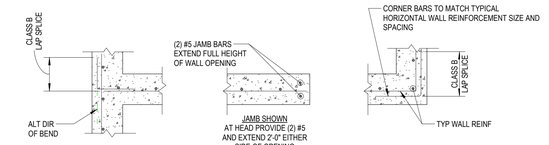
4 SB501 **TYPICAL FOOTING DETAIL AT PIPE PENETRATION**
SCALE: 1/2" = 1'-0"



3 SB501 **TYPICAL COLUMN ISOLATION DETAIL**
SCALE: 3/4" = 1'-0"



2 SB501 **ADDITIONAL REINFORCING AT DOORS AND WINDOWS**
SCALE: 3/4" = 1'-0"



NOTE:
PROVIDE CORNER BARS AT ALL INTERSECTIONS, SAME SIZE AND SPACING AS HORIZONTAL REINFORCEMENT

1 SB501 **TYPICAL CORNER BAR DETAILS**
SCALE: 3/4" = 1'-0"

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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GEORGIA REGISTERED No. PE041693 PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FOUNDATION SECTIONS AND DETAILS	Phase: BID DOCUMENTS	Project Title: Construct TVDD CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 / Checked: LKB / Drawn: ADK	Drawing Number: SB501

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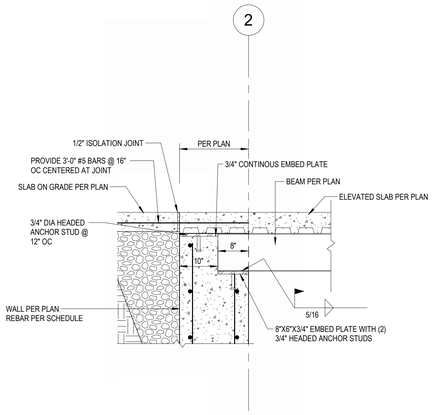
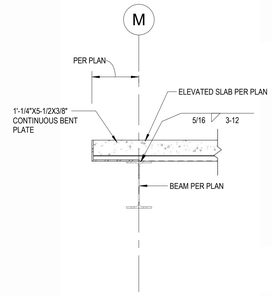


8 SB502 **SECTION**
SCALE: 3/4" = 1'-0"



7 SB502 **SECTION**
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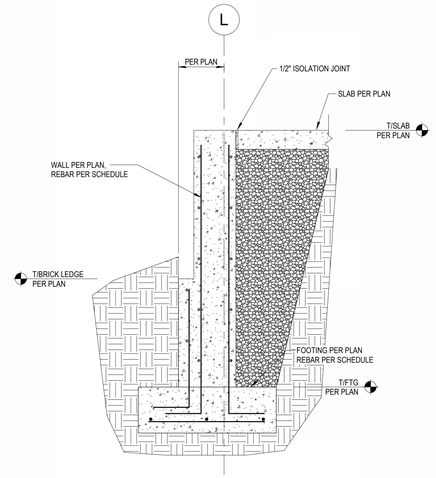

6 SB502 **FOUNDATION SECTION**
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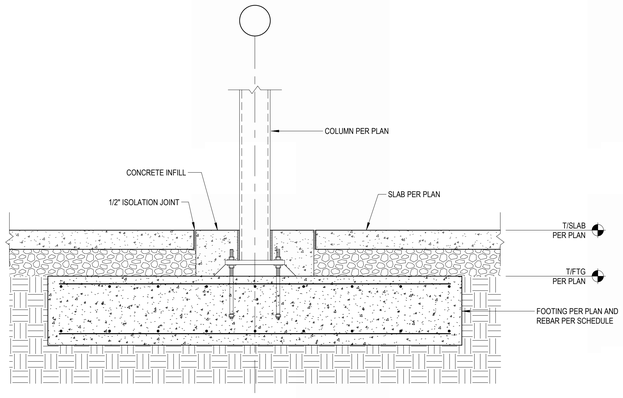

5 SB502 **FOUNDATION SECTION**
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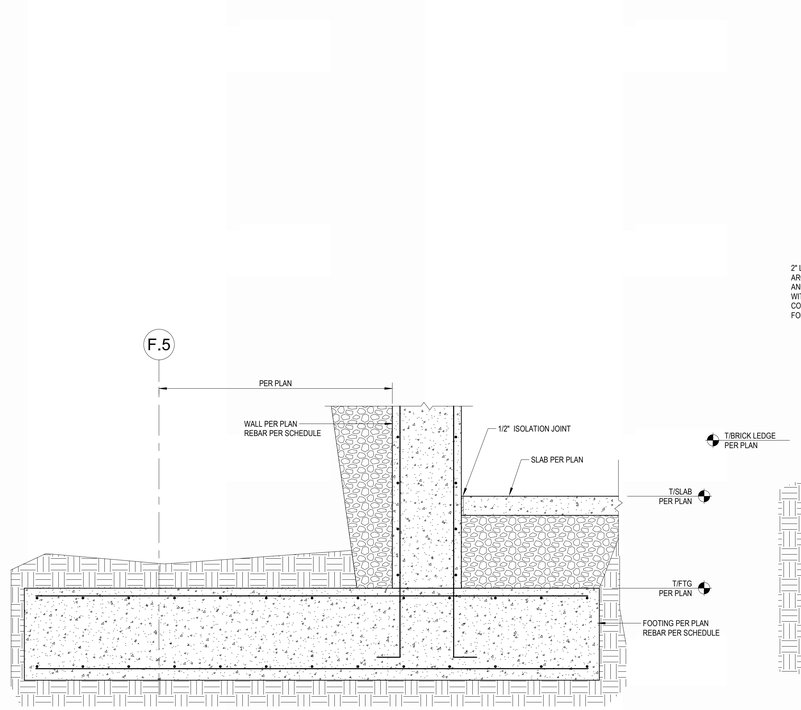
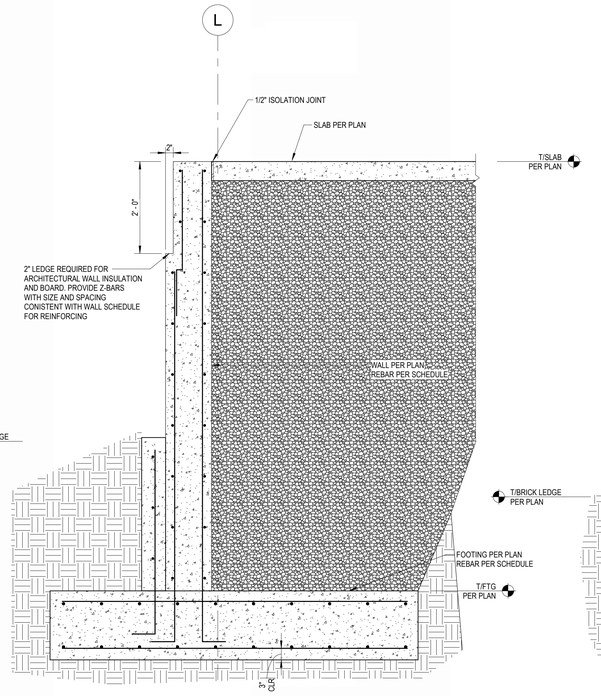
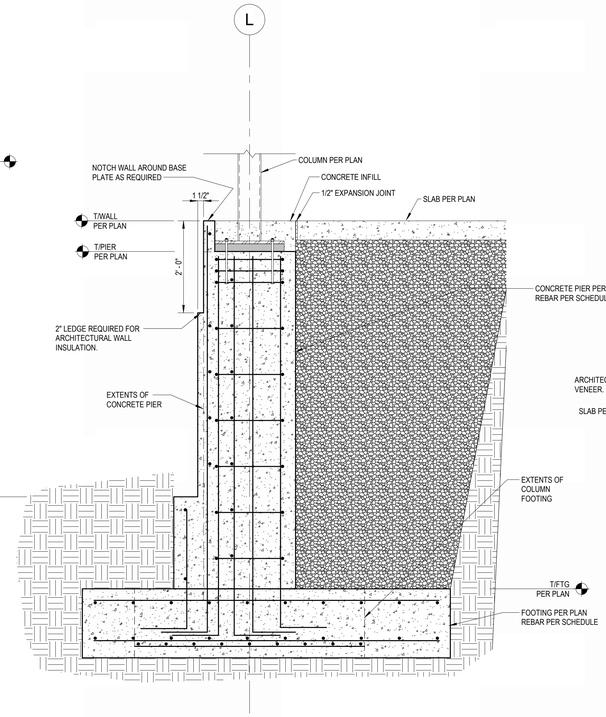


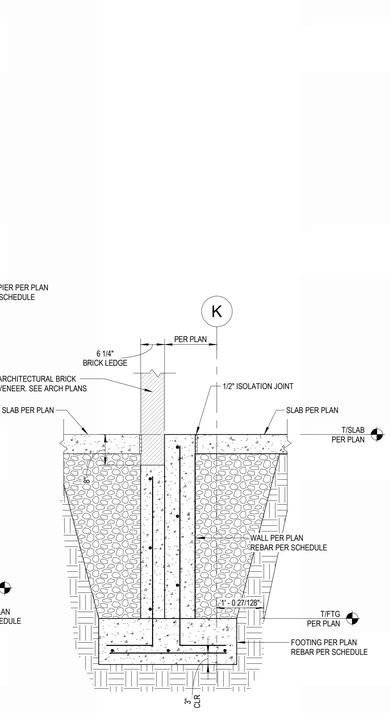
4 SB502 **FOUNDATION SECTION**
SCALE: 3/4" = 1'-0"



3 SB502 **FOUNDATION SECTION**
SCALE: 3/4" = 1'-0"



2 SB502 **FOUNDATION SECTION**
SCALE: 3/4" = 1'-0"



1 SB502 **FOUNDATION SECTION**
SCALE: 3/4" = 1'-0"

Revisions:	Date:

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FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
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5838 MONROE ROAD
CHARLOTTE, NC 28212

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GEORGIA REGISTERED No. PE041693 PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title FOUNDATION SECTIONS AND DETAILS	**Phase** BID DOCUMENTS	**Project Title** Construct TVDD CLC 12 Beds	**Project Number** 508-349
			Building Number
Approved:	FULLY SPRINKLERED	**Location** 180 MARTIN DR, CARROLLTON, GA 30117	**Drawing Number** SB502
		Issue Date 12/16/2024 · **Checked** LKB · **Drawn** ADK	

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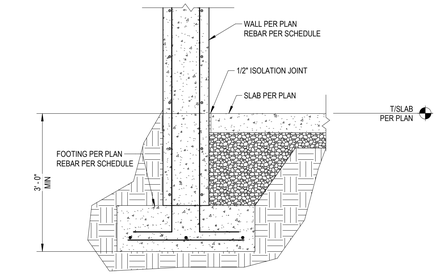

8 SB503 **FOUNDATION SECTION**
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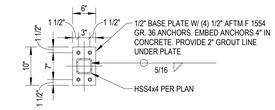
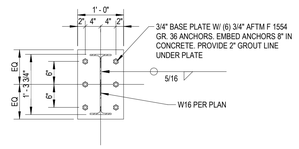
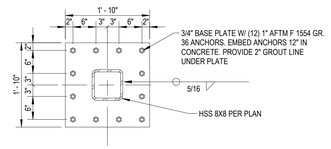


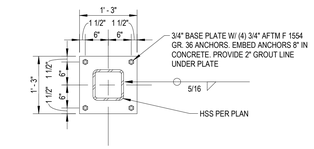
7 SB503 **BASE PLATE 4**
SCALE: 3/4" = 1'-0"



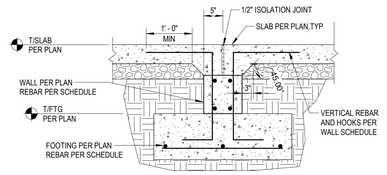
6 SB503 **BASE PLATE 3**
SCALE: 3/4" = 1'-0"



4 SB503 **BASE PLATE 2**
SCALE: 3/4" = 1'-0"



3 SB503 **BASE PLATE 1**
SCALE: 3/4" = 1'-0"



2 SB503 **FOUNDATION SECTION**
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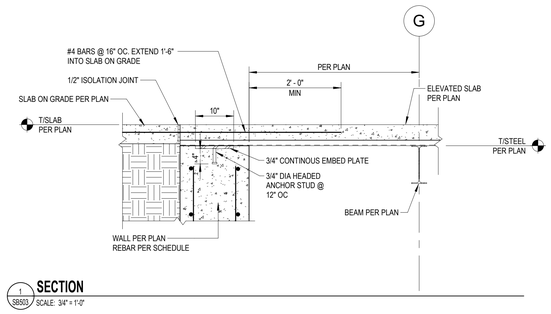

1 SB505 **SECTION**
SCALE: 3/4" = 1'-0"

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GEORGIA REGISTERED No. PE041693 PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title FOUNDATIONS SECTIONS AND DETAILS	**Phase** BID DOCUMENTS	**Project Title** Construct TVDD CLC 12 Beds	**Project Number** 508-349
			Building Number
Approved:	FULLY SPRINKLERED	**Location** 180 MARTIN DR, CARROLLTON, GA 30117	**Drawing Number** SB503
		Issue Date 12/16/2024 / **Checked** LKL / **Drawn** ADK	

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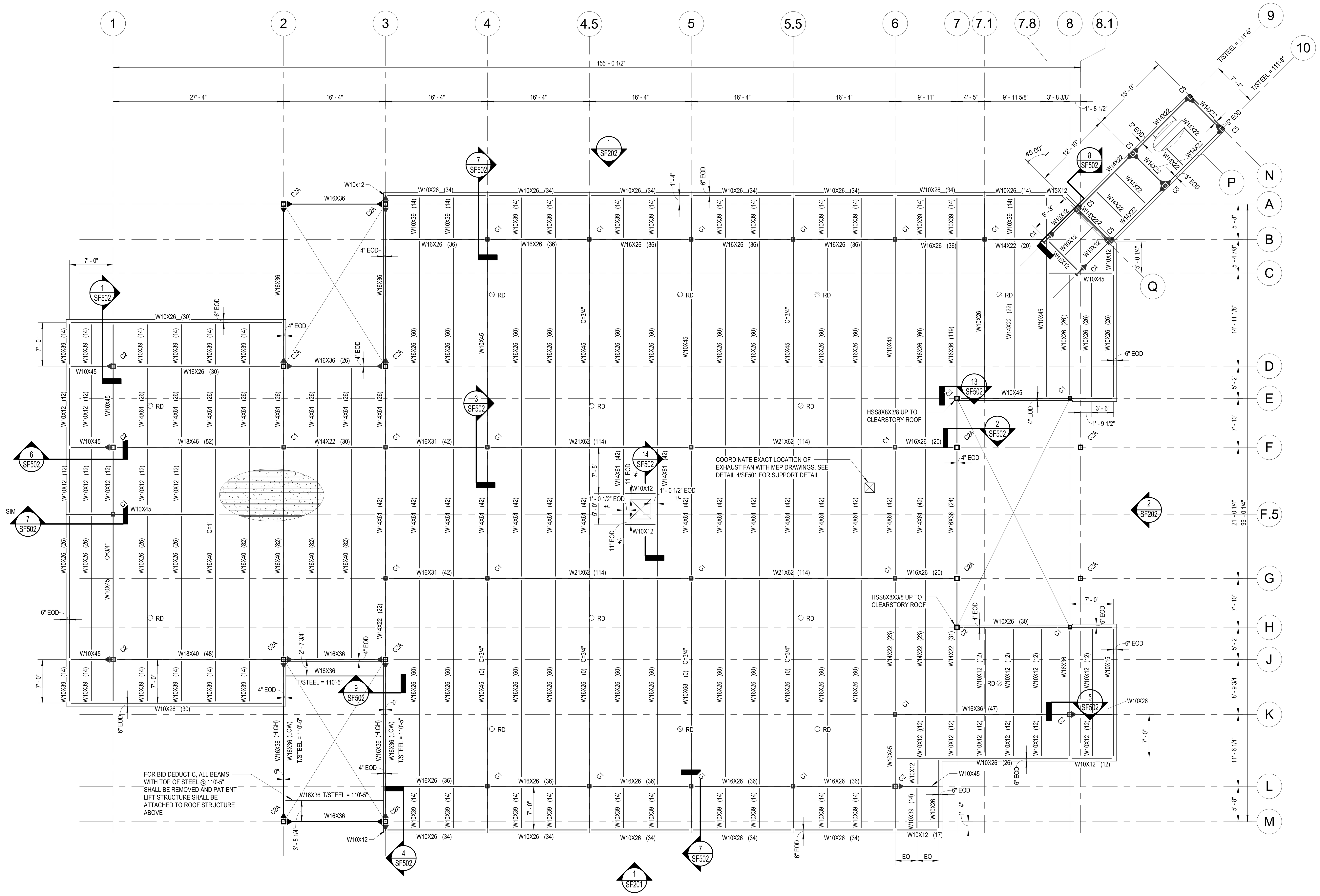

ROOF FRAMING PLAN

1 / SF101 SCALE: 1/8" = 1'-0"

NOTES
1. REFERENCE FINISH FLOOR ELEVATION = 100'-0". USGS ELEVATION PER CIVIL DRAWINGS = 1046.01'
2. SEE SI00 SHEETS FOR GENERAL PROJECT INFORMATION
3. T/STEEL = 113'-0" UNO

COLUMN SCHEDULE

MARK	SIZE	Description
C1	HSS6X6X3/8	BASE PLATE 1
C2	HSS8X8X5/8	BASE PLATE 1
C2A	HSS8X8X5/8 A	BASE PLATE 2
C3	HSS4X4X1/8	BASE PLATE 4
C4	W16X26	BASE PLATE 3
C5	HSS5X5X1/2	BASE PLATE 1

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE041693 LUKE K. LEISING

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: FRAMING PLAN
Approved:
Phase: BID DOCUMENTS
FULLY SPRINKLERED
Project Title: Construct TVDD CLC 12 Beds
Location: 180 MARTIN DR, CARROLLTON, GA 30117
Issue Date: 12/16/2024 | Checked: LKB | Drawn: ADK
Project Number: 508-349
Building Number:
Drawing Number: SF101

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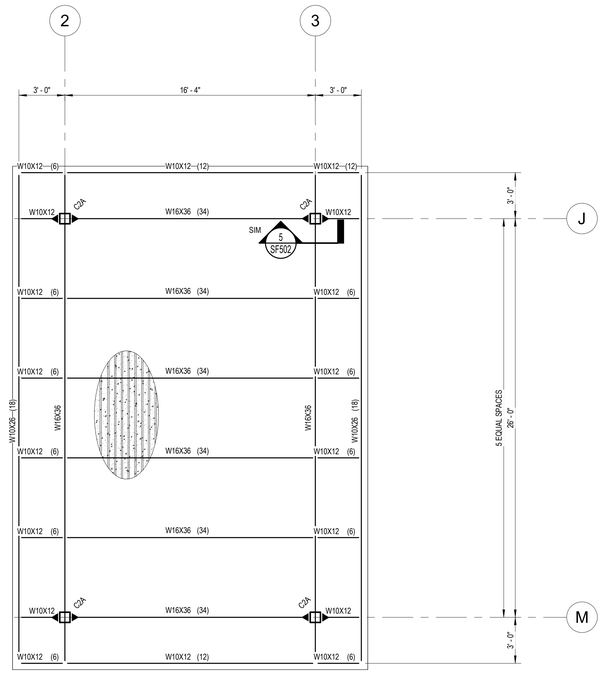

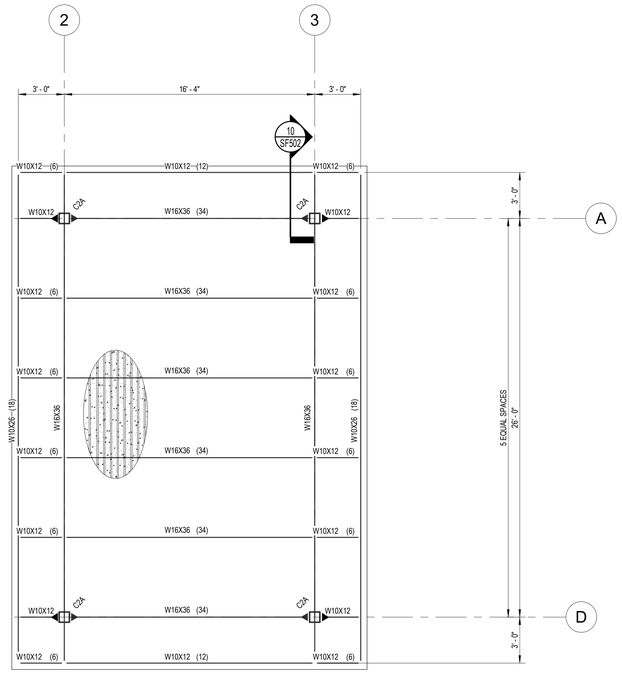

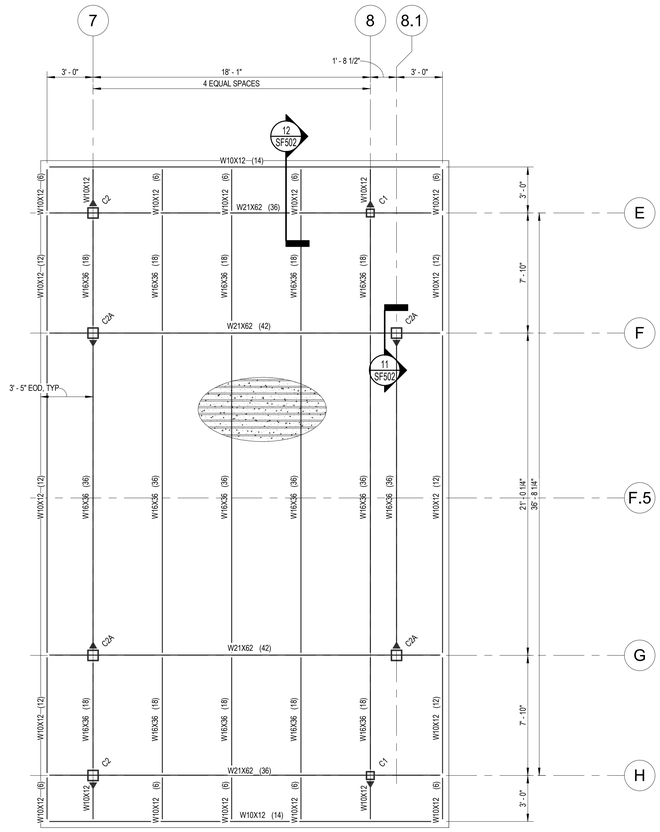

N 3 SF102 SCALE: 1/4" = 1'-0"

SOUTH CLERESTORY FRAMING PLAN

NOTES
1. REFERENCE FINISH FLOOR ELEVATION = 100'-0". USGS ELEVATION PER CIVIL DRAWINGS = 1046.01'
2. SEE S100 SHEETS FOR GENERAL PROJECT INFORMATION
3. T/STEEL = 120'-8"

N 2 SF102 SCALE: 1/4" = 1'-0"

NORTH CLERESTORY FRAMING PLAN

NOTES
1. REFERENCE FINISH FLOOR ELEVATION = 100'-0". USGS ELEVATION PER CIVIL DRAWINGS = 1046.01'
2. SEE S100 SHEETS FOR GENERAL PROJECT INFORMATION
3. T/STEEL = 120'-8"

N 1 SF102 SCALE: 1/4" = 1'-0"

DINING ROOM CLERESTORY FRAMING PLAN

NOTES
1. REFERENCE FINISH FLOOR ELEVATION = 100'-0". USGS ELEVATION PER CIVIL DRAWINGS = 1046.01'
2. SEE S100 SHEETS FOR GENERAL PROJECT INFORMATION
3. T/STEEL = 120'-8"

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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CHARLOTTE, NC 28212

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GEORGIA REGISTERED No. PE041693 PROFESSIONAL LIFE ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: CLERESTORY FRAMING PLANS	Phase: BID DOCUMENTS	Project Title: Construct TVDD CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 / Checked: LKB / Drawn: ADK	Drawing Number: SF102

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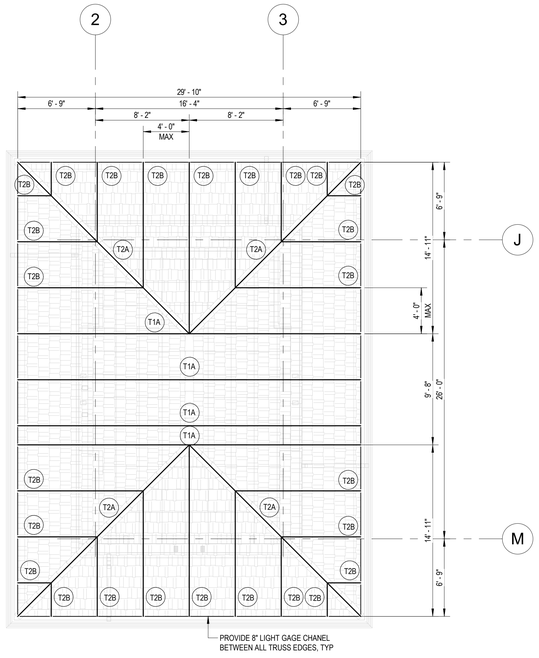

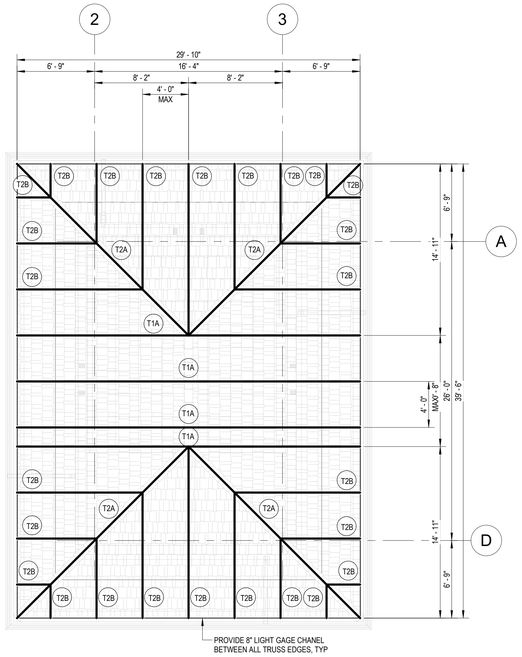

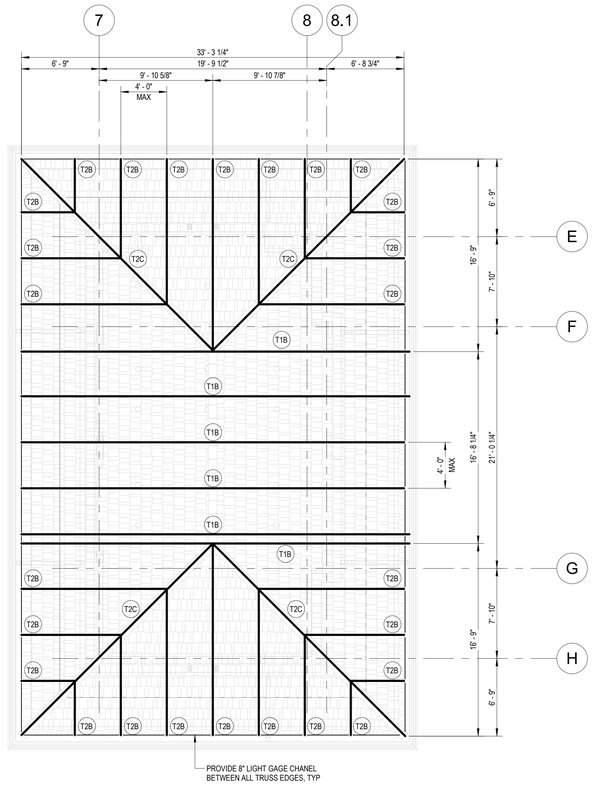

SOUTH ROOF TRUSS PLAN

3 SF103 SCALE: 3/16" = 1'-0"

NOTES:

1. T#X INDIATES TRUSS TYPE. SEE SF203 FOR TRUSS ELEVATIONS

NORTH ROOF TRUSS PLAN

2 SF103 SCALE: 3/16" = 1'-0"

NOTES:

1. T#X INDIATES TRUSS TYPE. SEE SF203 FOR TRUSS ELEVATIONS

DINING ROOM ROOF TRUSS PLAN

1 SF103 SCALE: 3/16" = 1'-0"

NOTES:

1. T#X INDIATES TRUSS TYPE. SEE SF203 FOR TRUSS ELEVATIONS

COLUMN SCHEDULE

MARK	SIZE	Description
C1	HSS6X6X3/8	BASE PLATE 1
C2	HSS8X8X5/8	BASE PLATE 1
C2A	HSS8X8X5/8 A	BASE PLATE 2
C3	HSS4X4X1/8	BASE PLATE 4
C4	W16X26	BASE PLATE 3
C5	HSS5X5X1/2	BASE PLATE 1

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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GEORGIA REGISTERED No. PE041693 PROFESSIONAL ENGINEER LUKE KELLEY, PE

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ROOF TRUSS PLANS	Phase: BID DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: Construct TVDD CLC 12 Beds		Project Number: 508-349
		Building Number
Location: 180 MARTIN DR, CARROLLTON, GA 30117		Drawing Number: SF103
Issue Date: 12/16/2024	Checked: LKL	Drawn: ADK

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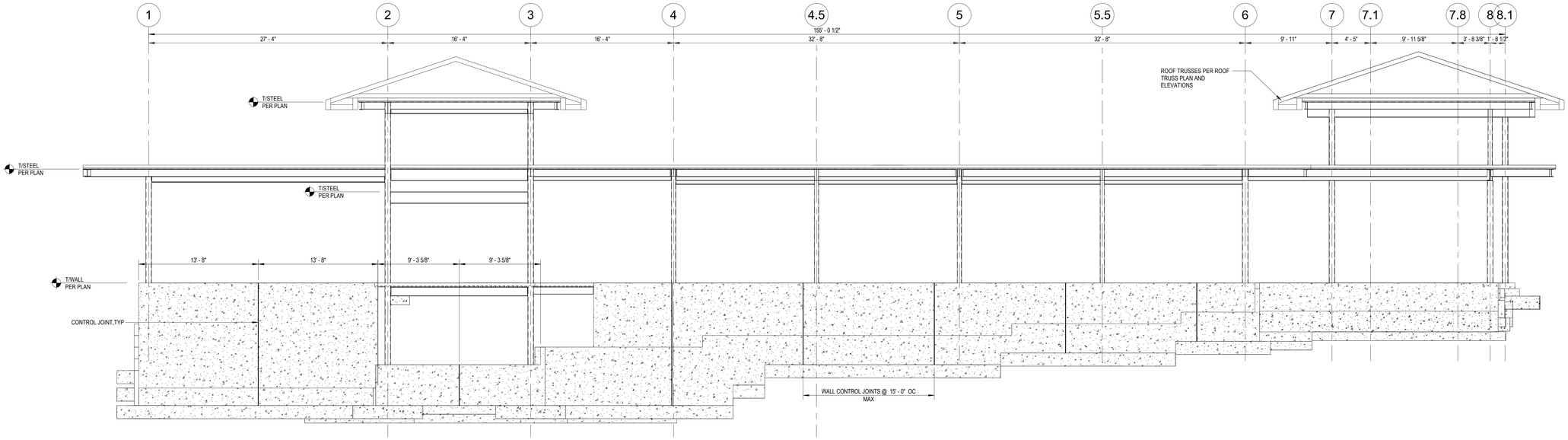
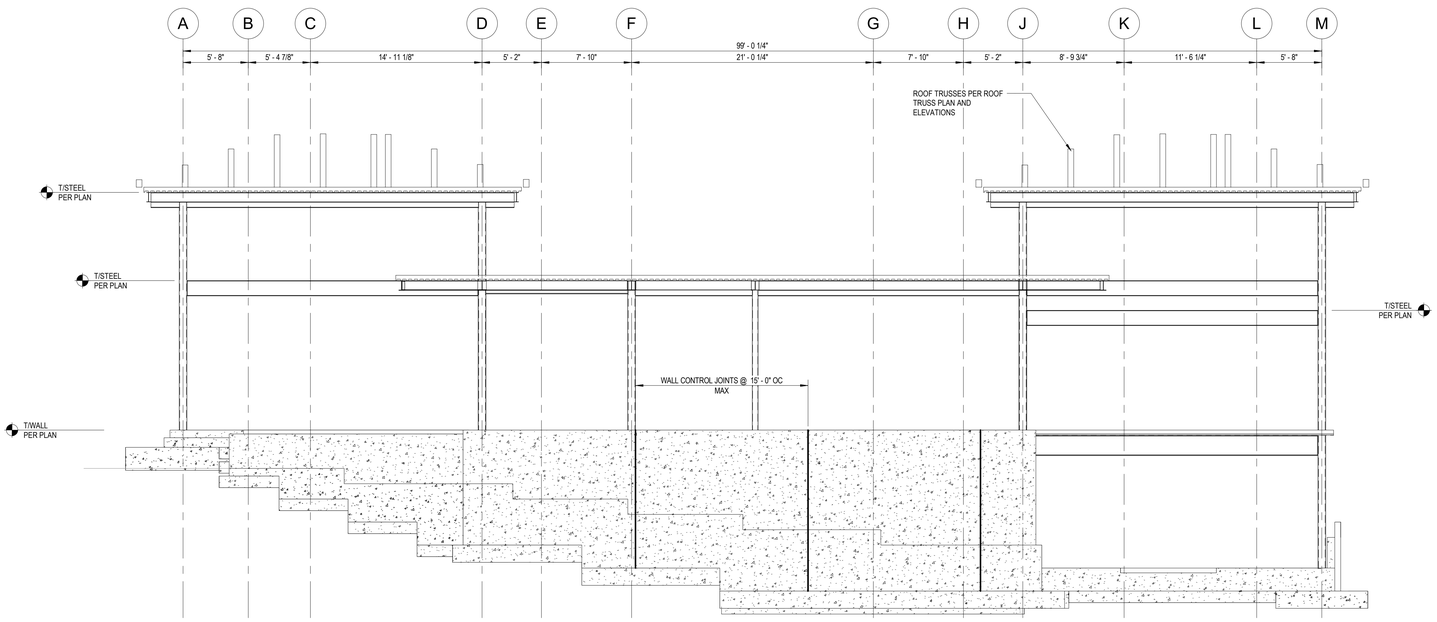


1 SF201 **SOUTH**
SCALE: 3/16" = 1'-0"



1 SF201 **WEST**
SCALE: 3/16" = 1'-0"

Revisions:	Date:

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CHARLOTTE, NC 28212

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GEORGIA REGISTERED No. PE041693 PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING ELEVATIONS	**Phase** BID DOCUMENTS	**Project Title** Construct TVDD CLC 12 Beds	**Project Number** 508-349
			Building Number
Approved:	FULLY SPRINKLERED	**Location** 180 MARTIN DR, CARROLLTON, GA 30117	**Drawing Number** SF201
		Issue Date 12/16/2024 · **Checked** LKB · **Drawn** ADK	

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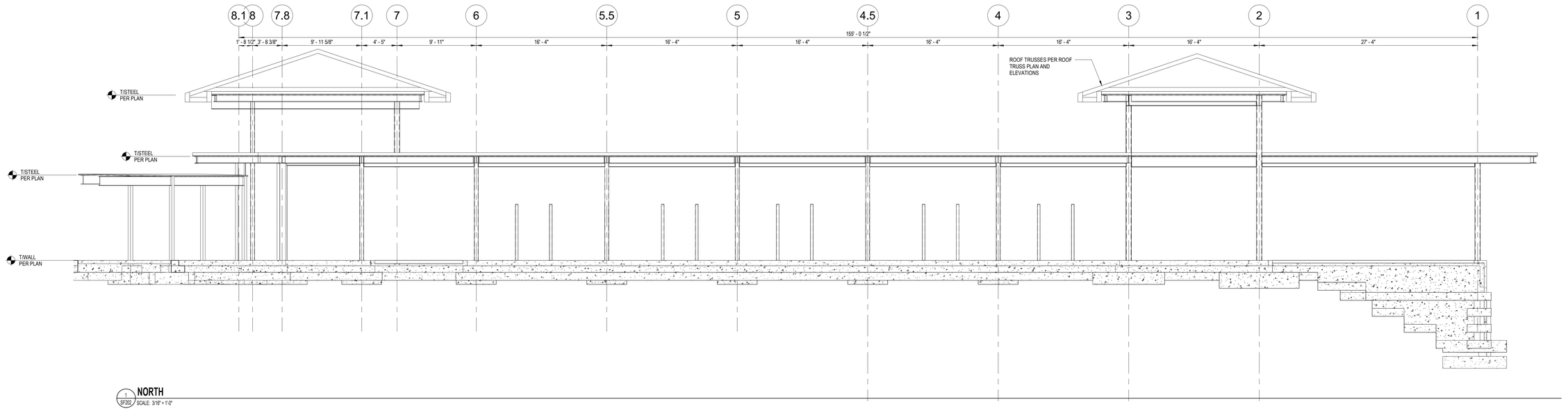
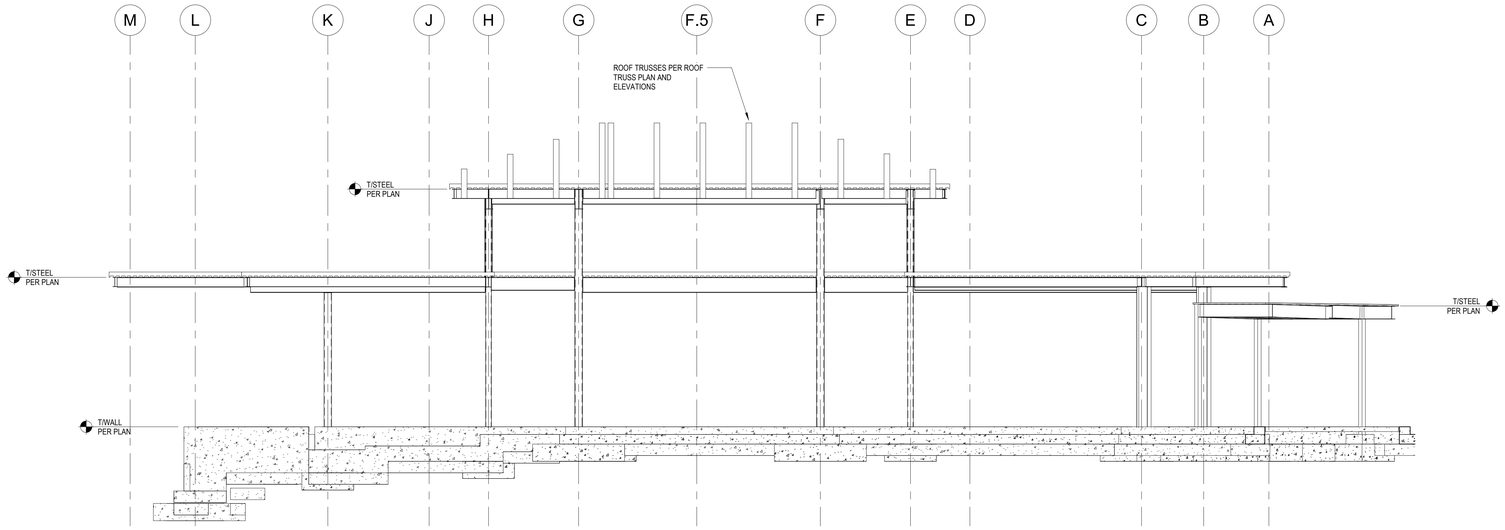


1 SF202 **NORTH**
SCALE: 3/16" = 1'-0"



2 SF202 **EAST**
SCALE: 3/16" = 1'-0"

Revisions:	Date:

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GEORGIA REGISTERED No. PE041693 PROFESSIONAL

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING ELEVATIONS	**Phase** BID DOCUMENTS	**Project Title** Construct TVDD CLC 12 Beds	**Project Number** 508-349
Approved:	FULLY SPRINKLERED	**Location** 180 MARTIN DR, CARROLLTON, GA 30117	**Building Number**
		Issue Date 12/16/2024 · **Checked** LKB · **Drawn** ADK	**Drawing Number** SF202

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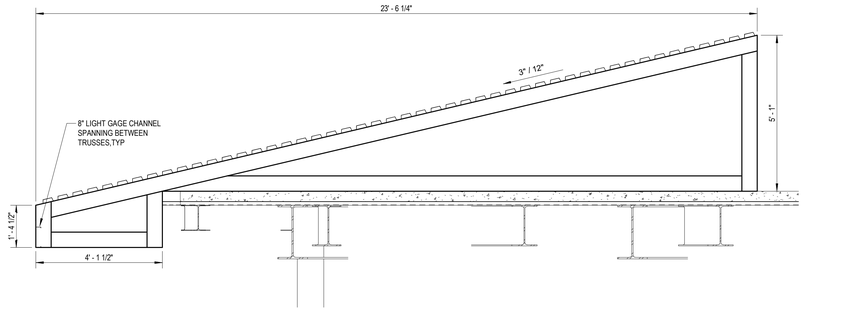
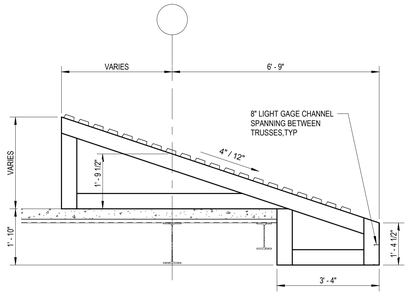


1 / SF203 **TRUSS T2C**
SCALE: 1/2" = 1'-0"



1 / SF203 **TRUSS T2B**
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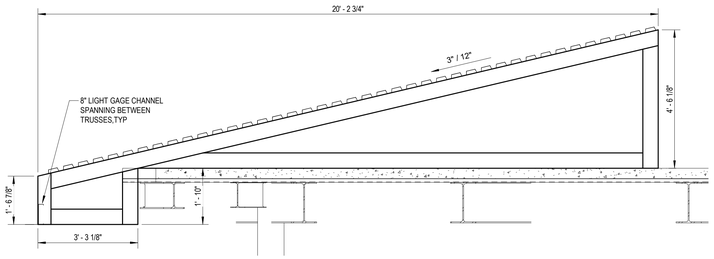

1 / SF203 **TRUSS T2A**
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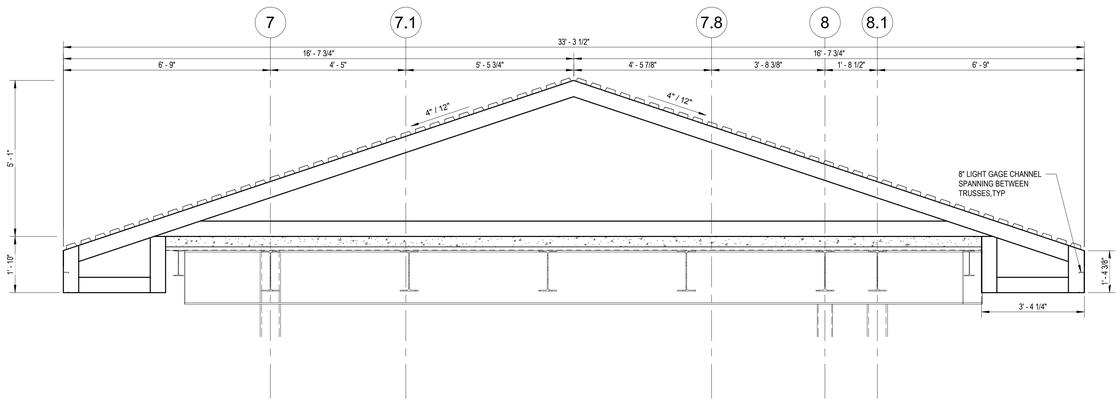
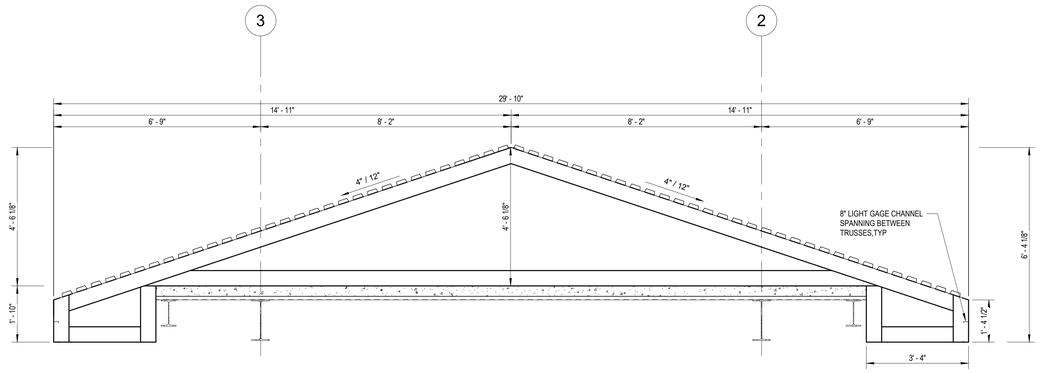


2 / SF203 **TRUSS T1B**
SCALE: 1/2" = 1'-0"



1 / SF203 **TRUSS T1A**
SCALE: 1/2" = 1'-0"

Revisions:	Date:

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FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
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GEORGIA REGISTERED No. PE041693 PROFESSIONAL ENGINEER LUKE KENNEDY LOCKETT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ROOF TRUSS ELEVATIONS
Approved:	
Phase	BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	Construct TVDD CLC 12 Beds
Location	180 MARTIN DR, CARROLLTON, GA 30117
Issue Date	12/16/2024
Checked	LKL
Drawn	ADK
Project Number	508-349
Building Number	
Drawing Number	SF203

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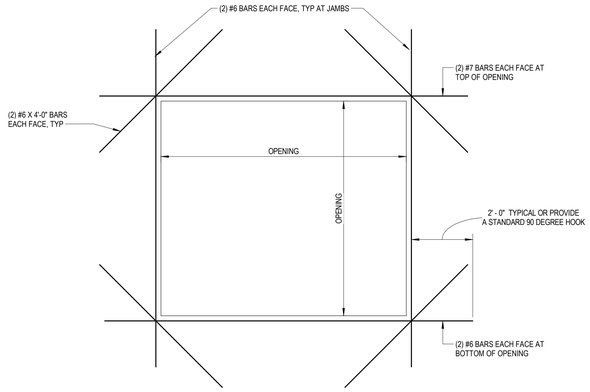
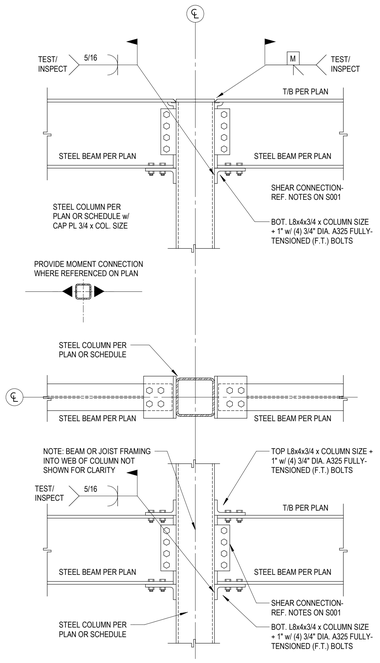
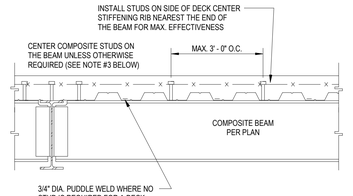


NOTE:
1. COORDINATE FINAL LOCATION OF OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO INSTALLATION OF REINFORCING
2. THIS DETAIL APPLIES TO ALL SQUARE AND RECTANGULAR OPENINGS IN CONCRETE WALLS UNO ON PLANS
3. WHERE VERTICAL REINFORCING IS INTERRUPTED BY THE OPENING, HALF OF THE INTERRUPTED STEEL SHALL BE ADDED EACH SIDE OF THE OPENINGS USING FULL LENGTH BARS. IF BARS CANNOT BE PLACED AS DETAILED, REPLACE THE 2'-0" EXTENSION WITH A STANDARD 90 DEGREE HOOK

11 / SF501 TYPICAL CONCRETE WALL OPENING
SCALE: 1/2" = 1'-0"

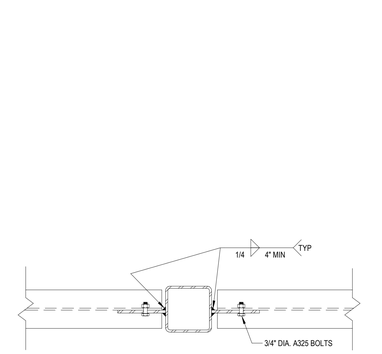


10 / SF501 TYPICAL BEAM TO COLUMN MOMENT CONNECTION
SCALE: 3/4" = 1'-0"

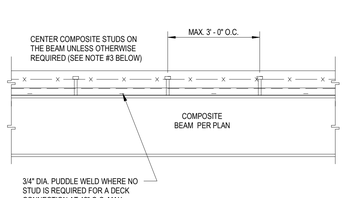


1. THE MIN. NUMBER OF STUDS FOR EACH BEAM IS SHOWN ON THE FRAMING PLAN.
2. SPACE STUDS AS EVENLY AS POSSIBLE IN AVAILABLE DECK FLUTES. WHERE STUD SPACING EXCEEDS THE MAX. SPACING ALLOWED, PROVIDE ADDITIONAL STUDS TO SATISFY THE SPACING REQUIREMENTS.
3. WHERE THE NUMBER OF STUDS EXCEEDS THE NUMBER OF FLUTES, PROVIDE TWO STUDS IN EVERY OTHER FLUTE, STARTING AT EACH END OF THE BEAM. THE TRANSVERSE SPACING BETWEEN TWO STUDS IN A SINGLE FLUTE SHALL BE 3", UNLESS NOTED OTHERWISE.
4. PLACE ANY NATURAL BEAM CAMBER UP.

9 / SF501 COMPOSITE BEAM DETAIL
SCALE: 3/4" = 1'-0"

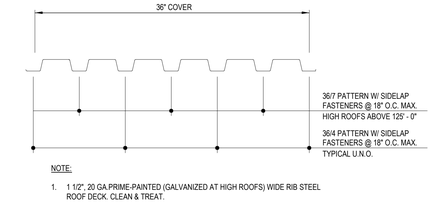


5 / SF501 TYPICAL HSS COLUMN SINGLE PLATE SHEAR CONNECTION
SCALE: 1 1/2" = 1'-0"



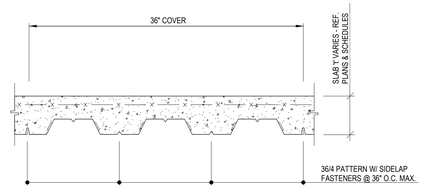
1. THE MIN. NUMBER OF STUDS FOR EACH BEAM IS SHOWN ON THE FRAMING PLAN.
2. SPACE STUDS AS EVENLY AS POSSIBLE IN AVAILABLE DECK FLUTES. WHERE STUD SPACING EXCEEDS THE MAX. SPACING ALLOWED, PROVIDE ADDITIONAL STUDS TO SATISFY THE SPACING REQUIREMENTS.
3. WHERE THE NUMBER OF STUDS EXCEEDS THE NUMBER OF FLUTES, PROVIDE TWO STUDS IN EVERY OTHER FLUTE, STARTING AT EACH END OF THE BEAM. THE TRANSVERSE SPACING BETWEEN TWO STUDS IN A SINGLE FLUTE SHALL BE 3", UNLESS NOTED OTHERWISE.
4. PLACE ANY NATURAL BEAM CAMBER UP.

8 / SF501 COMPOSITE GIRDER DETAIL
SCALE: 3/4" = 1'-0"



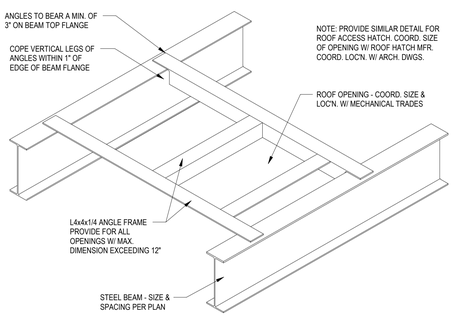
NOTE:
1. 1 1/2", 20 GA PRIME-PAINTED (GALVANIZED AT HIGH ROOFS) WIDE RIB STEEL ROOF DECK. CLEAN & TREAT.
2. USE #10 TEK SCREW SIDELAP FASTENERS, U.N.O.
3. MECHANICAL FASTENERS SHALL BE USED IN LIEU OF WELDS.
4. USE THE FOLLOWING POWER ACTUATED FASTENERS (OR APPROVED EQUIV.):
   HILTI X-HSN 24 FOR COLD-FORMED & STRUCTURAL STEEL 1/8" ≤ T' < 1/4"
   X-ENP-19 L15 FOR COLD-FORMED & STRUCTURAL STEEL T' ≥ 1/4"
   HILTI S-SLC 01 M HWH SIDELAP FASTENERS
   ACCEPTABLE ALTERNATE: PNEUTEK AIR/SAFE FASTENING SYSTEM.
5. SUBMIT PROPOSED FASTENERS & TECHNICAL DATA FOR REVIEW.
6. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

7 / SF501 1 1/2" STEEL ROOF DECK DETAIL
SCALE: 3/4" = 1'-0"



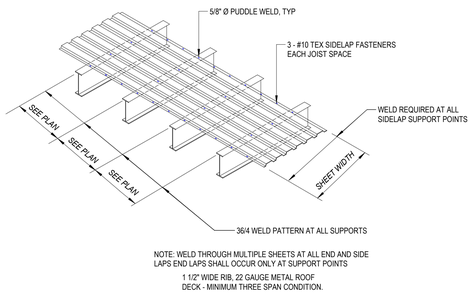
NOTE:
1. 1 ½", 20 GA. GALVANIZED COMPOSITE STEEL FLOOR DECK.
2. WELD DECK TO SUPPORTING STRUCTURE USING 3/4" DIAMETER WELDS. MECHANICAL FASTENERS MAY BE USED IN LIEU OF WELDS. SUBMIT PROPOSED FASTENERS & TECHNICAL DATA FOR REVIEW. COMPOSITE SHEAR CONNECTORS MAY TAKE THE PLACE OF WELDS.
3. BUTT ENDS OF DECK OVER SUPPORT.
4. USE #10 TEK SCREW SIDELAP FASTENERS, U.N.O.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

6 / SF501 1 1/2" COMPOSITE STEEL DECK & SLAB DETAIL
SCALE: 3/4" = 1'-0"



ROOF OPENING FRAME 1.5" DECK

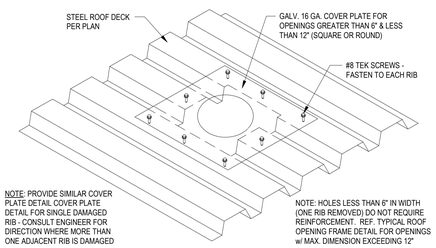
4 / SF501 TYIPCAL OPENING THRU ROOF DETAIL
SCALE: 3/4" = 1'-0"



NOTE: WELD THROUGH MULTIPLE SHEETS AT ALL END AND SIDE LAPS END LAPS SHALL OCCUR ONLY AT SUPPORT POINTS

1 1/2" WIDE RIB, 22 GAUGE METAL ROOF DECK - MINIMUM THREE SPAN CONDITION.

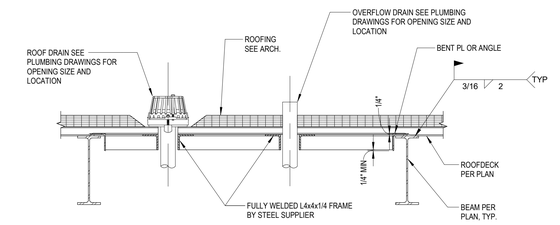
3 / SF501 TYPICAL ROOF DECK WELDING PATTERNS
SCALE: 3/4" = 1'-0"



NOTE: PROVIDE SIMILAR COVER PLATE DETAIL COVER PLATE DETAIL FOR SINGLE DAMAGED RIB - CONSULT ENGINEER FOR DIRECTION WHERE MORE THAN ONE ADJACENT RIB IS DAMAGED

NOTE: HOLES LESS THAN 6" IN WIDTH (ONE RIB REMOVED) DO NOT REQUIRE REINFORCEMENT. REF. TYPICAL ROOF OPENING FRAME DETAIL FOR OPENINGS w/ MAX. DIMENSION EXCEEDING 12"

2 / SF501 SMALL OPENING THROUGH ROOF DECK
SCALE: 3/4" = 1'-0"



1 / SF501 TYPICAL ROOF DRAIN SUPPORT
SCALE: 3/4" = 1'-0"

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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CHARLOTTE, NC 28212

STAMP: GEORGIA REGISTERED No. PE041693 PROFESSIONAL

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TYPICAL FRAMING SECTIONS AND DETAILS	Phase: BID DOCUMENTS	Project Title: Construct TVDD CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 / Checked: LKL / Drawn: ADK	Drawing Number: SF501

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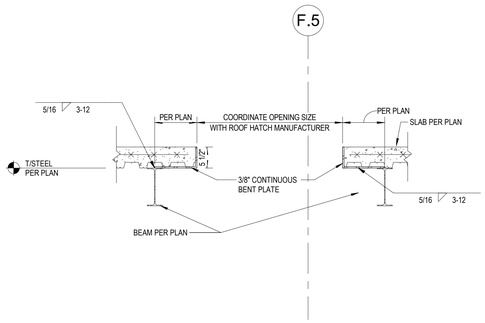

14 SF503 **FRAMING SECTION**
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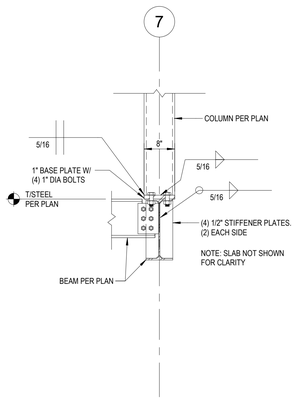

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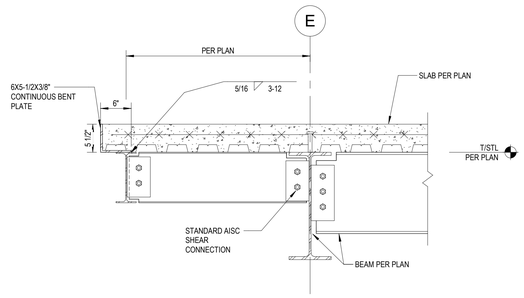

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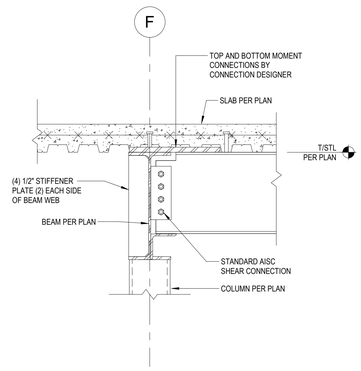

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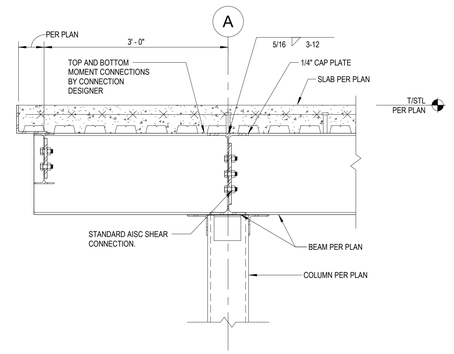

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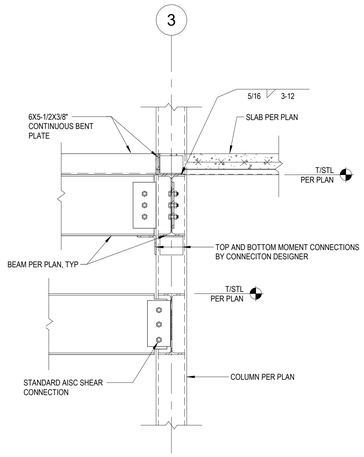

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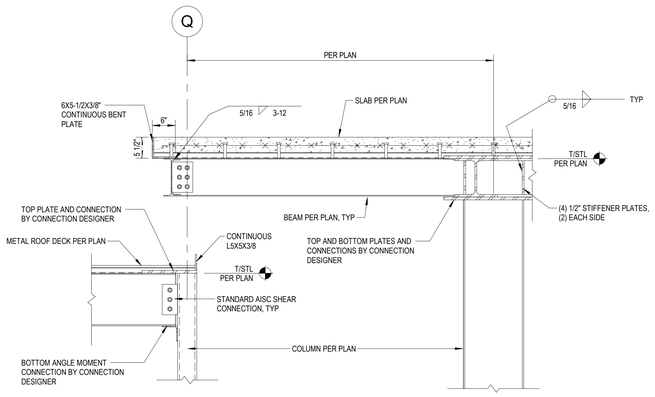

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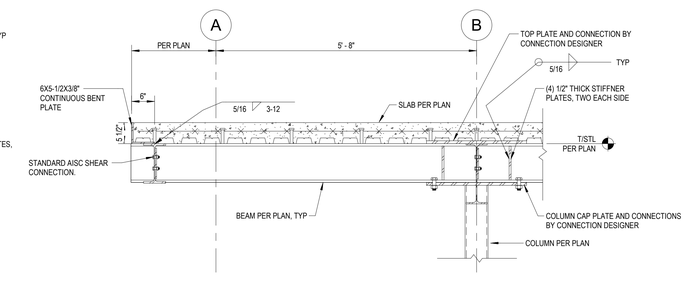

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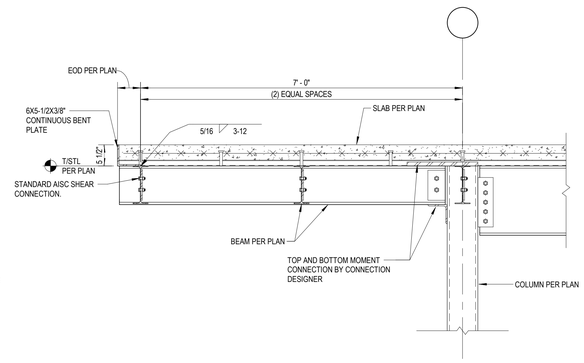

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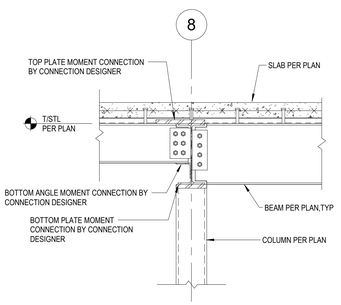

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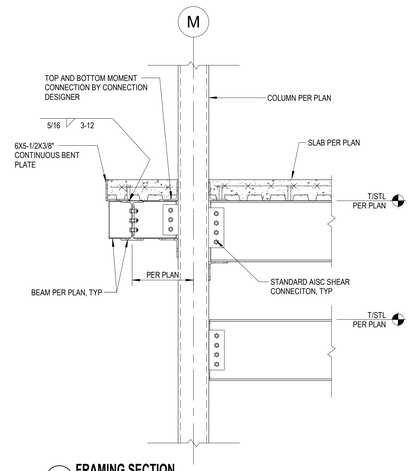

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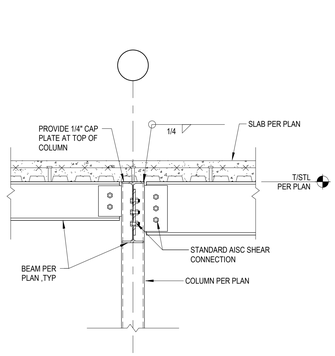

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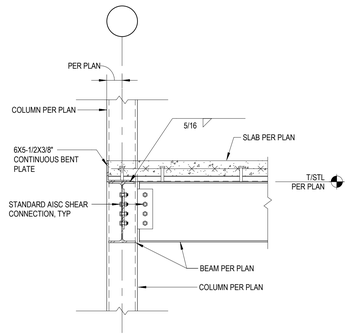

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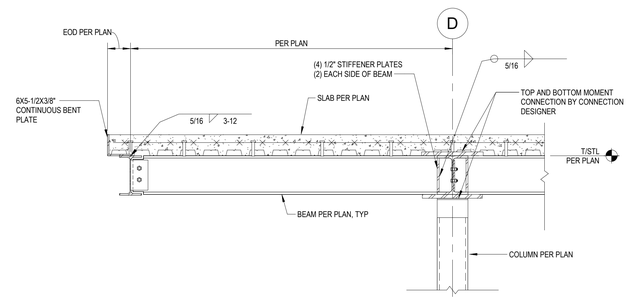

1 SF502 **FRAMING SECTION**
SCALE: 3/4" = 1'-0"

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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CHARLOTTE, NC 28212

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GEORGIA REGISTERED No. PE041693 PROFESSIONAL LICENSED ENGINEERING

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title FRAMING SECTIONS AND DETAILS	**Phase** BID DOCUMENTS	**Project Title** Construct TVDD CLC 12 Beds	**Project Number** 508-349
Approved:			**Building Number**
	FULLY SPRINKLERED	**Location** 180 MARTIN DR, CARROLLTON, GA 30117	**Drawing Number** SF502
		Issue Date 12/16/2024 / **Checked** LKL / **Drawn** ADK	

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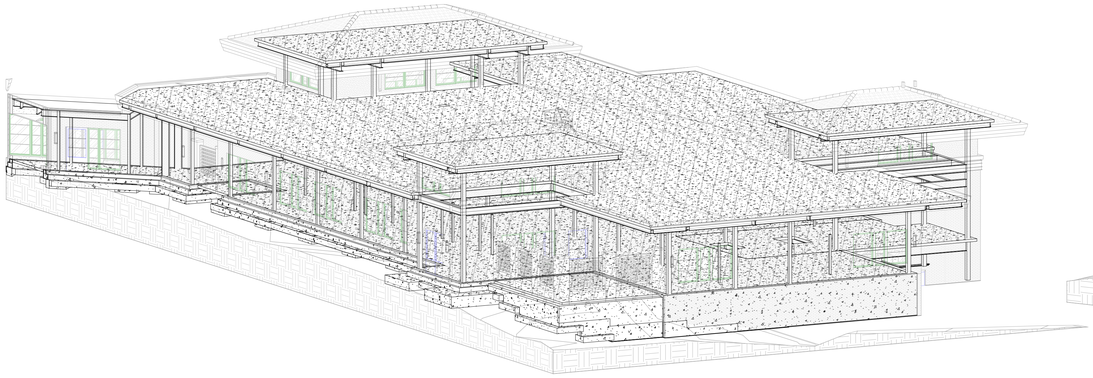
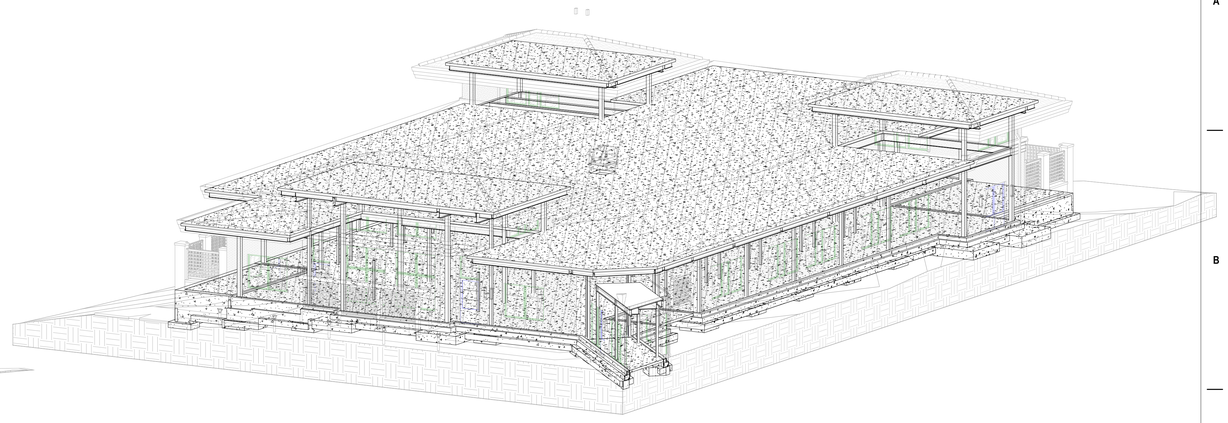


1 SF901 SCALE:
NORTHWEST ISOMETRIC VIEW



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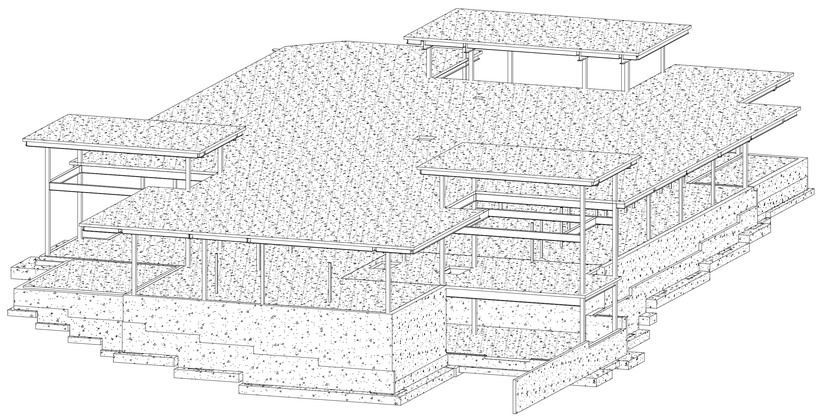

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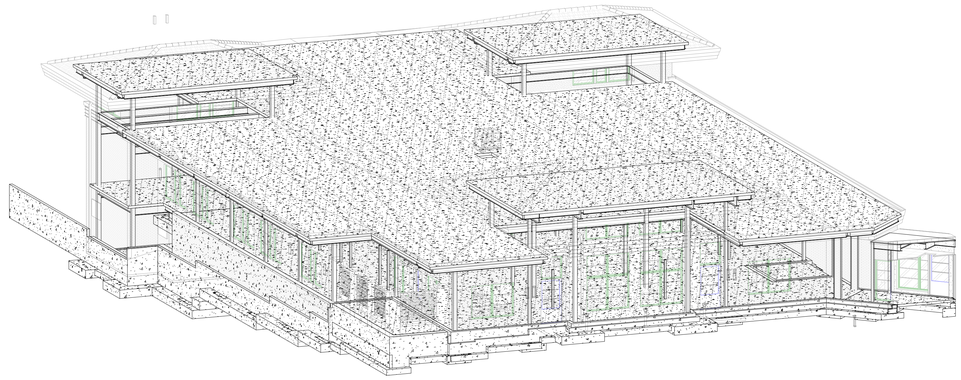

3 SF901 SCALE:
SOUTHEAST ISOMETRIC VIEW

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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CHARLOTTE, NC 28212

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GEORGIA REGISTERED No. PE041693 PROFESSIONAL LICENSED ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ISOMETRIC VIEWS	Phase: BID DOCUMENTS	Project Title: Construct TVDD CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number:
		Issue Date: 12/16/2024 / Checked: / Drawn: ADK	Drawing Number: SF901

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ARCHITECTURAL ABBREVIATIONS

A/C	AIR CONDITION
A/E	ARCHITECT/ENGINEER
AB	ANCHOR BOLT
ABC	AGGREGATE BASE COURSE
AC	ASBESTOS CEMENT OR ASPHALTIC CONCRETE
ACS DR	ACCESS DOOR
ACS FLR	ACCESS FLOOR
ACS PNL	ACCESS PANEL
ACST	ACOUSTIC
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADC	AUTOMATIC DOOR CLOSER
ADDL	ADDITIONAL
ADDN	ADDITION
ADH	ADHESIVE
ADJ	ADJACENT, ADJOINING, OR ADJUSTABLE
ADMIN	ADMINISTRATION
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AGGR	AGGREGATE
AHJ	AUTHORITY HAVING JURISDICTION
AHR	ANCHOR
AHU	AIR HANDLING UNIT
AIA	AMERICAN INSTITUTE OF ARCHITECTS
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALT NO	ALTERNATE NUMBER
ALUM	ALUMINUM
AMP	AMPERE
AMT	AMOUNT
ANOD	ANODIZE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ANT	ANTENNA
APPD	APPROVED
APPROX	APPROXIMATE
AR	AS REQUIRED
ARCH	ARCHITECT
ASB	ASBESTOS
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTION
ASKLR	AUTOMATIC SPRINKLER
ASPH	ASPHALT
ASSN	ASSOCIATION
ATCH	ATTACHMENT
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AVG	AVERAGE
AW	ACID WASTE
AWI	ARCHITECTURAL WOODWORKING INSTITUTE
AWS	AMERICAN WELDING SOCIETY
AWT	ACOUSTICAL WALL TREATMENT
B PL	BASE PLATE
BALC	BALCONY
BAT	BATTEN
BB	BULLETIN BOARD
BD	BOARD
BEV	BEVEL
BI FLD DR	BIFOLDING DOORS
BITUM	BITUMINOUS
BKG	BACKING
BLD	BUILD
BLDG	BUILDING
BLKG	BLOCKING
BLKT	BLANKET
BM	BEAM OR BENCHMARK
BOT	BOTTOM
BRCG	BRACING
BRDG	BRIDGING
BRG	BEARING
BRKT	BRACKET
BRZ	BRONZE
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT-UP ROOFING
C	CELSIUS CHANNEL OR CHANNEL CELSIUS
C CONC	CAST CONCRETE
C TO C	CENTER TO CENTER
CAB	CABINET
CB	CORNER BEAD
CBB	CEMENTITIOUS (BACKER) BOARD
CC	CUBIC CENTIMETER
CCTV	CLOSED CIRCUIT TELEVISION
CCW	COUNTERCLOCKWISE
CEM	CEMENT
CEM PLAS	CEMENT PLASTER
CER	CERAMIC
CF	CONTRACTOR FURNISHED
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED
CFLG	COUNTERFLASHING
CFM	CUBIC FEET PER MINUTE
CFMF	COLD-FORMED METAL FRAMING
CFS	CUBIC FEET PER SECOND
CG	CORNER GUARD
CGSFU	CERAMIC GLAZED STRUCTURAL FACING UNITS
CH BD	CHALKBOARD
CHEM	CHEMICAL
CHFR	CHAMFER
CI	CAST IRON
CIP	CAST-IN-PLACE
CIR	CIRCLE
CIRC	CIRCULAR
CJ	CONSTRUCTION JOINT OR CONTROL JOINT
CL	CENTER LINE
CLDG	CLADDING
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNR	CORNER
CNTR	COUNTER
CO	CARBON MONOXIDE, CLEANOUT
CO_2	CARBON DIOXIDE
COL	COLUMN
COM	COMMON
COMB	COMBINATION, COMBINED
COMM	COMMUNICATION
COMP	COMPONENT
CONC	CONCRETE
COND	CONDENSER OR CONDITION
CONF	CONFERENCE
CONN	CONNECT
CONSTR	CONSTRUCTION
CONT	CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CPM	CRITICAL PATH METHOD
CPRS	COMPRESSIBLE
CPT	CARPET
CRS	COLD ROLLED STEEL
CS	CAST CONCRETE STONE
CSB	CONCRETE SPLASH BLOCK
CSG	CASING
CSK	COUNTER SUNK
CSMT	CASEMENT
CSWK	CASEWORK
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTF	CERAMIC TILE FLOOR
CTG	COATING
CTR	CENTER
CTRL	CONTROL
CTV	CABLE TELEVISION
CU	COPPER C
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CU YD	CUBIC YARD
CURT	CURTAIN
CYL	CYLINDER
CYL L	CYLINDER LOCK

D	DEPTH OR PENNY (NAIL)
D LABEL	CLASS D DOOR
DAT	DATUM
DB	DECIBEL
DBL	DOUBLE
DBL GLZ	DOUBLE GLAZE
DC	DIRECT CURRENT
DEG	DEGREE
DEL	DELETE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL DIAGRAM OR DIAGRAM DIAGONAL
DIFF	DIFFERENCE OR DIFFUSER
DIM	DIMENSION
DIR	DIRECTION
DISP	DISPENSER
DIST	DISTANCE
DIV	DIVIDE OR DIVISION
DL	DEAD LOAD
DOC	DOCUMENT
DOZ	DOZEN
DN	DOWN
DR	DOOR, DRAIN, DRESSING ROOM, OR DRIVE
DS	DOWNSPOUT
DSGN	DESIGN
DW	DISHWASHER
DWG	DRAWING
DWTR	DUMBWAITER
E	EAST
EA	EACH
EFF	EFFICIENCY
EFS	EXTERIOR FINISH SYSTEM
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRIC
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
ENVIR	ENVIRONMENT
EPA	ENVIRONMENTAL PROTECTION AGENCY
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EPO	EMERGENCY POWER OFF
EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ERD	EXISTING ROOF DRAIN
ESC	ESCAPE OR ESCUTCHEON
ESCAL	ESCALATOR
EST	ESTIMATE
ETC	AND SO FORTH OR ET CETERA
ETS	EXPOSE TO STRUCTURE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWS	EYE WASH STATION
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION OR EXPOSED
EXT	EXTERIOR, EXTERNAL, OR EXTINGUISHER
F	FAHRENHEIT OR FEMALE
FA	FIRE ALARM
FAB	FABRIC
FAC	FACTOR
FACIL	FACILITY
FAS	FASCIA
FCO	FLOOR CLEANOUT
FCTY	FACTORY
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FACE
FF EL	FINISH FLOOR ELEVATION
FF&E	FURNITURE, FIXTURE, AND EQUIPMENT
FH	FLAT HEAD OR FLAT HEAD SCREWS
FHC	FIRE HOSE CABINET
FHMS	FLAT HEAD MACHINE SCREW
FHP	FULL HEIGHT PARTITION
FHWS	FLAT HEAD WOOD SCREW
FIG	FIGURE
FIL	FILLET
FIN	FINISH
FIP	FILLER PANEL
FIXT	FIXTURE
FL	FLOORLINE
FLASH	FLASHING
FLDG	FOLDING
FLEX	FLEXIBLE
FLG	FLOORING
FLR	FLOOR
FLUOR	FLUORESCENT
FM	FACTORY MUTUAL
FM-G	FACTORY MUTUAL GLOBAL
FO	FINISHED OPENING
FOC	FACE OF CONCRETE OR FACE OF CURB
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF SLAB OR FACE OF STUD
FOUNT	FOUNTAIN
FOW	FACE OF WALL
FP	FIRE PROTECTION OR FIREPROOF
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FR	FIRE RATING, FIRE RESISTANT, OR FRAME
FR SNK	FLUSHING RIM SINK
FREQ	FREQUENCY
FRMG	FRAMING
FRP	FIBER REINFORCED POLYESTER OR FIBERGLASS REINFORCED PLASTIC
FRZ	FREEZER
FS	FEDERAL SPECIFICATION
FSTNR	FASTENER
FT	FEET OR FOOT
FTG	FOOTING
FURG	FURRING
FURN	FURNISH OR FURNITURE
FUT	FUTURE
FWC	FABRIC WALLCOVERING
GA	GAGE OR GYPSUM ASSOCIATION
GAL	GALLON
GALV	GALVANIC OR GALVANIZED
GALV STL	GALVANIZED STEEL
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GD	GUARD
GDR	GUARD RAIL
GEN	GENERAL OR GENERATOR
GFRC	GLASS-FIBER-REINFORCED CONCRETE
GFRG	GLASS-FIBER-REINFORCED GYPSUM
GFRP	GLASS-FIBER-REINFORCED PLASTIC
GI	GALVANIZED IRON
GL	GLASS
GLU LAM	GLUED LAMINATED WOOD
GR FL	GROUND FLOOR
GRAN	GRANITE
GRTG	GRATING
GSB	GYPSUM SHEATHING BOARD
GSM	GALVANIZED SHEET METAL
GSU	GLAZED STRUCTURAL UNIT
GT	GROUT
GUAR	GUARANTEE
GUT	GUTTER
GYP	GYPSUM

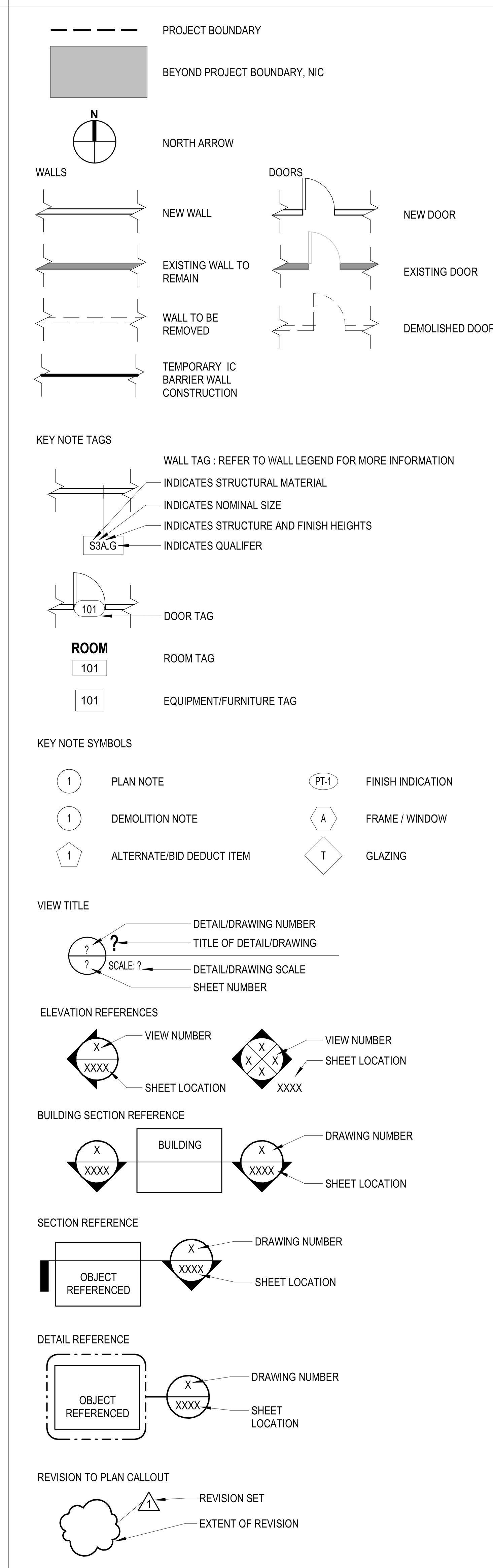
H	HIGH
H PLAM	HIGH PRESSURE PLASTIC LAMINATE
HAZ MAT	HAZARDOUS MATERIALS
HB	HOSE BIBB
HC	HOLLOW CORE
HCWD	HOLLOW CORE WOOD DOOR
HDBD	HARDBOARD
HDNR	HARDENER
HDO	HIGH DENSITY OVERLAY
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)
HEX	HEXAGON
HF	HIGH FREQUENCY
HGR	HANGER
HM	HECTOMETER OR HOLLOW METAL
HMD	HOLLOW METAL DOOR
HMDF	HOLLOW METAL DOOR AND FRAME
HMF	HOLLOW METAL FRAME
HNDRL	HANDRAIL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HOSP	HOSPITAL
HP	HIGH PRESSURE OR HORSEPOWER
HS	HEAT-STRENGTHENED (GLASS) OR HIGH STRENGTH
HSKPG	HOUSEKEEPING
HST	HOIST
HT	HEIGHT
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HVY	HEAVY
HW	HOT WATER
HYD	HYDRANT
HYDR	HYDRAULIC
I	INTERSTATE (HIGHWAY) OR MOMENT OF INERTIA
IAQ	INDOOR AIR QUALITY
IBC	INTERNATIONAL BUILDING CODE
ID	IDENTIFICATION, INSIDE DIAMETER
ID NO	IDENTIFICATION NUMBER
ILLUM	ILLUMINATION
INCL	INCLUDED
IND	INDEPENDENT OR INDUSTRIAL
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
INTERCOM	INTERCOMMUNICATION
INTL	INTERNATIONAL
IRMA	INVERTED ROOF MEMBRANE ASSEMBLY
IWH	INSTANTANEOUS WATER HEATER
JAN	JANITOR
J-BOX	JUNCTION BOX
JT	JOINT
KD	KILN DRIED OR KNOCKED DOWN
KIT	KITCHEN
KO	KNOCKOUT
KPL	KICKPLATE
L	ANGLE
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE
LAM GL	LAMINATED GLASS
LAU	LAUNDRY
LAV	LAVATORY
LBR	LUMBER
LBS	POUND
LD BRG	LOAD-BEARING
LDR	LEADER
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET (FOOT)
LH	LEFT HAND
LHR	LEFT HAND REVERSE OR LEFT HAND REVERSE
LATENT	HEAT RATIO
LIB	LIBRARY
LIN	LINEAR
LINO	LINOLEUM
LIQ	LIQUID
LKR	LOCKER
LKR RM	LOCKER ROOM
LKWASH	LOCKWASHER
LL	LEAD LINED
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMST	LIMESTONE
LNDSCP	LANDSCAPE
LR	LIVING ROOM
LRG	LARGE
LRV	LOUVERED ROOF VENT
LS	LUMP SUM
LT	LIGHT
LT GA	LIGHT GAGE
LT WT	LIGHTWEIGHT
LTG	LIGHTING
LTNG	LIGHTNING
LVD	LOUVERED
LVR	LOUVER
LWC	LIGHTWEIGHT CONCRETE
LWIC	LIGHTWEIGHT INSULATING CONCRETE
LYR	LAYER
MACH	MACHINE
MACH RM	MACHINE ROOM
MAINT	MAINTENANCE
MAN	MANUAL
MATL	MATERIAL
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MB	MACHINE BOLT
MCB	METAL CORNER BEAD
MD	DECK
ME	MECHANICAL ENGINEER
MEAS	MEASURE
MECH	MECHANICAL
MECH RM	MECHANICAL ROOM
MED	MEDICAL MEDIUM OR MEDIUM MEDICAL
MEK	METHYL ETHYL KETONE
MEL	MELAMINE
MEMB	MEMBRANE
MEMO	MEMORANDUM
MEZZ	MEZZANINE
MF	MILL FINISH
MFD	MANUFACTURED
MFG	MANUFACTURING
MFR	MANUFACTURER
MFR REC	MANUFACTURER'S RECOMMENDATION
MGT	MANAGEMENT
MH	MANHOLE
MIC	MICROPHONE
MID	MIDDLE
MIL STD	MILITARY STANDARD
MIN	MINIMUM MINUTE OR MINUTE MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MIT	MITER
MKR	MARKER
ML	METAL LATH
MLDG	MOLDING (MOULDING)
MLWK	MILLWORK
mm	MILLIMETER
MO	MASONRY OPENING OR MOTOR OPERATED
MOD	MODEL, MODIFY OR MODULE
MOD BIT	MODIFIED BITUMEN
MON	MONITOR
MOPR	MOP RACK
MR	MOISTURE RESISTANT
MS	MACHINE SCREW OR MOP SINK
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MULL	MULLION
MW	MICROWAVE
MWP	MEMBRANE WATERPROOFING

N	NORTH
NA	NOT APPLICABLE
NAT	NATURAL
NATL	NATIONAL
NC	NOISE CRITERIA
NCOMBL	NONCOMBUSTIBLE
NEG	NEGATIVE
NEUT	NEUTRAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NR	NOISE REDUCTION
NRC	NOISE REDUCTION COEFFICIENT
NRP	NONREMOVABLE
NS	NARROW STILE
NUM	NUMERAL
O/O	OUT TO OUT
O	OXYGEN
OA	OUTSIDE AIR OR OVERALL
OC	ON CENTER
OCC	OCCUPY
OCT	OCTAGON
OD	OUTSIDE DIAMETER OR OUTSIDE DIMENSION
OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OFF	OFFICE
OF/OI	OWNER FURNISHED/OWNER INSTALLED
OH	OVERHANG
OH DR	OVERHEAD (COILING) DOOR
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OPR	OPERABLE
OPT	OPTIONAL
OR	OPERATING ROOM OR OUTSIDE RADIUS
ORD	ORDNANCE OR OVERFLOW ROOF DRAIN
ORG	ORGANIC
ORIG	ORIGINAL
ORN	ORNAMENTAL
OUT	OUTLET
OZ	OUNCE
PAR	PARALLEL OR PARAPET
PART	PARTIAL
PAT	PATTERN
PB	PUSHBUTTON
PBD	PARTICLEBOARD
PC	PIECE, POLYCARBONATE OR PORTLAND CEMENT
PCC	PRECAST CONCRETE
PCCP	CONCRETE PAVEMENT
PCD	PAPER CUP DISPENSER
PCF	POUNDS PER CUBIC FOOT
PCP	PORTLAND CEMENT PLASTER
PED	PEDESTAL
PEN	PENETRATE
PEND	PENDANT
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PGBD	PEGBOARD
PHS	PHILLIPS HEAD SCREW
PKG	PACKAGE
PL	PLATE, PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER OR PLASTIC
PLBG	PLUMBING
PLYWD	PLYWOOD
PMTL	PAINTED METAL
PNEU	PNEUMATIC
PNL	PANEL
POLY	POLYETHYLENE (PLASTIC)
PR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATE
PREFIN	PREFINISH
PRELIM	PRELIMINARY
PREP	PREPARATION
PRESS	PRESSURE
PREV	PREVIOUS
PRKG	PARKING
PRMLD	PREMOLDED
PROJ	PROJECT
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT, PNEUMATIC TUBE, OR PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PVC	POLYVINYL CHLORIDE (PLASTIC)
PVG	PAVING
PWR	POWER
QA	QUALITY ASSURANCE
QC	QUALITY CONTROL
QRY	QUARRY
QT	QUARRY TILE
QTB	QUARRY TILE BASE
QTF	QUARRY TILE FLOOR
QTR	QUARTER
QTY	QUANTITY
QUAD	QUADRANT
QUAL	QUALITY
R	RADIUS OR RISER
RA	RETURN AIR
RAD	RADIATOR
RB	RESILIENT BASE OR RUBBER BASE
RB HK	ROBE HOOK
RBM	REINFORCED BRICK MASONRY
RBR	RUBBER
RCP	REFLECTED CEILING PLAN
RCVR	RECEIVER
RD	ROAD OR ROOF DRAIN
REC	RECESSED
RECD	RECEIVED
RECPT	RECEPTACLE
RECT	RECTANGLE
REF	REFERENCE OR REFRIGERATOR
REFR	REFRACTORY REFRIGERATION OR REFRIGERATION REFRACTORY
REG	REGISTER
REINF	REINFORCE
REP	REPAIR
REPL	REPLACE
REQ	REQUIRE
REQD	REQUIRED
RESIL	RESILIENT
RET	RETURN
REV	REVISION
RF	RADIO FREQUENCY
RFG	ROOFING
RFI	REQUEST FOR INFORMATION
RFP	REQUEST FOR PROPOSAL
RH	RIGHT HAND
RHMS	ROUND HEAD MACHINE SCREW
RHR	RIGHT HAND REVERSE
RHWS	ROUND HEAD WOOD SCREW
RL	ROOF LEADER
RLG	RAILING
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RPM	REVOLUTIONS PER MINUTE
RS	ROUGH SAWN
RT	RIGHT
RV	ROOF VENT
RVS	REVERSE
RWD	REDWOOD
RWL	RAIN WATER LEADER

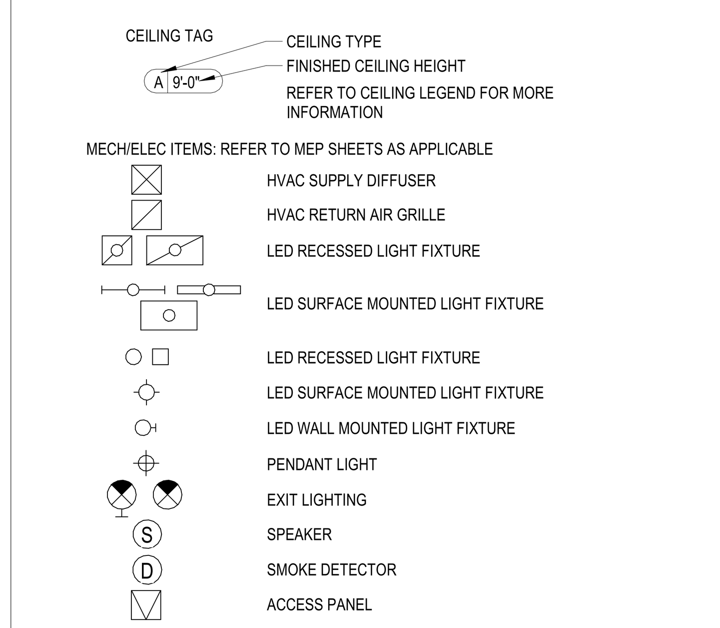
SA	SUPPLY AIR
SALV	SALVAGE
SAMP	SAMPLE
SAN	SANITARY
SAT	SUSPENDED ACOUSTICAL TILE
SATC	SUSPENDED ACOUSTICAL TILE CEILING
SB	SPLASH BLOCK
SBS	STYRENE BUTADIEN STYRENE
SBSTR	SUBSTRATE
SC	SHADING COEFFICIENT OR SOLID CORE
SCH	SCHOOL
SCHED	SCHEDULE
SCHEM	SCHEMATIC
SCP	SCUPPER
SCRN	SCREEN
SCT	STRUCTURAL CLAY TILE
SCWD	SOLID CORE WOOD DOOR
SD	SHOP DRAWINGS, SMOKE DETECTOR OR SOAP DISPENSER
SDG	SIDING
SECT	SECTION
SEG	SEGMENT
SEL	SELECT
SEP	SEPARATE
SF	SQUARE FOOT (FEET)
SFTWD	SOFTWOOD
SGD	SLIDING GLASS DOOR
SGL	SINGLE
SHR	SHOWER
SHR HD	SHOWER HEAD
SHRD	SHOWER DRAIN
SHT	SHEET
SHT MTL FLASH	SHEET METAL (FLASHING)
SHTHG	SHEATHING
SHV	SHELVING
SIM	SIMILAR
SJ	SCORED JOINT
SK	SKETCH
SKLT	SKYLIGHT
SLD WDW	HORIZONTAL SLIDING WINDOW
SLDG	SLIDING
SLNT	SEALANT
SM	SHEET METAL
SMK	SMOKE
SND	SANITARY NAPKIN DISPENSER
SND INS	SOUND INSULATION
S	SOUTH
SNDU	SANITARY NAPKIN DISPOSAL UNIT
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SPLY	SUPPLY
SQ	SQUARE
SQ IN	SQUARE INCH
SQ YD	SQUARE YARD
SS	SANITARY SEWER OR SERVICE SINK
SST	STAINLESS STEEL
ST	STAIRS OR STREET
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STIF	STIFFENER
STL	STEEL
STL LNTL	STEEL LINTEL
STL RF DK	STEEL ROOF DECK
STL TB	STEEL TUBE
STNLS	STAINLESS
STOR	STORAGE
STR	STRINGERS
STRUCT	STRUCTURAL
SUB	SUBSTITUTE
SURF	SURFACE
SUSP	SUSPEND
SV	SHEET VINYL
SW	SWITCH
SWDR	SWING DOOR
SYM	SYMBOL
SYNTH	SYNTHETIC
SYS	SYSTEM
T	TREAD
TA	TOILET ACCESSORY
T&G	TONGUE AND GROOVE
T&M	TIME AND MATERIALS
TB	THROUGH BOLT OR TOWEL BAR
TCA	TILE COUNCIL OF AMERICA
TCP	TELEPHONE CONTROL PANEL OR TEMPERATURE CONTROL PANEL OR TRAFFIC CONTROL PLAN
TD	TOWEL DISPENSER
TECH	TECHNICAL
TEL	TELEPHONE
TEMP	TEMPERATURE OR TEMPORARY
TER	TERRAZZO
THD	THREAD
THERM	THERMAL
THK	THICKNESS
THRES	THRESHOLD
THRU	THROUGH
THRUOUT	THROUGHOUT
TK BD	TACKBOARD
TMPD	TEMPERED
TN	TRUE NORTH
TO	TOP OF ___
TO FDN	TOP OF FOUNDATION
TOB	TOP OF BEAM
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TPH	TOILET PAPER HOLDER
TR	TOWEL RACK
TRANS	TRANSOM
TRANS WD FIN	TRANSPARENT WOOD FINISH
TRTD	TREATED
TS	TENSILE STRENGTH OR TUBE STEEL
TSTAT	THERMOSTAT
TV	TELEVISION
TYP	TYPICAL
U	HEAT TRANSFER COEFFICIENT
UC	UNDERCUT
UCD	UNDERCUT DOOR
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
ULT	ULTIMATE
UNFIN	UNFINISH
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UR	URINAL
UTIL	UTILITY
UV	ULTRAVIOLET
V	VOLT
VAC	VACUUM
VAR	VARIES
VCT	VINYL COMPOSITION TILE OR VITRIFIED CLAY TILE
VEH	VEHICLE
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VFAT	VINYL FACED ACOUSTICAL TILE
VIC	VICINITY
VID	VIDEO
VIF	VERIFY IN FIELD
VNR	VENEER
VOC	VOLATILE ORGANIC COMPOUND
VOL	VOLUME
VOLT	VOLTAGE
VP	VENEER PLASTER
VR	VAPOR RETARDER
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
VWF	VINYL WALL FABRIC

W/	WITH
W/O	WITHOUT
WARR	WARRANTY
WBL	WOOD BLOCKING
WC	WALL COVERING OR WATER CLOSET
WC WL HNG	WATER CLOSET, WALL HUNG
WCHR	WATER CHILLER
WCL WL MTD	WATER COOLER, WALL HUNG
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WFAB	WALL FABRIC
WFR	WOOD FRAME
WFS	WOOD FURRING STRIPS
WH	WATER HEATER
WHSE	WAREHOUSE
WLD	WELDED
WM	WIRE MESH
WP	WATERPROOFING
WPD	WATER PRESSURE DROP
WPM	WATERPROOF MEMBRANE
WR	WEATHER RESISTANT
WS	WEATHERSTRIP
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
X BRACE	CROSS BRACE
XPS	EXTRUDED POLYSTYRENE BOARD (INSULATION)
YD	YARD
YR	YEAR

ARCHITECTURAL SYMBOLS



REFLECTED CEILING PLAN SYMBOLS



CONSTRUCTION GENERAL NOTES

1. THE CONTRACT DOCUMENT DRAWINGS HAVE BEEN PREPARED USING REVIT® SOFTWARE IN A MICROSOFT WINDOWS ENVIRONMENT. A BUILDING INFORMATION MODEL (BIM) HAS BEEN DEVELOPED FOR DESIGN COMMUNICATION. THE MODEL DOES NOT CONTAIN COMPLETE INFORMATION FOR USE IN COST ESTIMATING, SYSTEMS PERFORMANCE, COORDINATION, SCHEDULING, OR FACILITIES MANAGEMENT.
2. THE CONTRACT DOCUMENT DRAWINGS HAVE BEEN PREPARED USING THE CONSTRUCTION SPECIFICATIONS INSTITUTE'S UNIFORM DRAWING SYSTEM AND THE NATIONAL CAD STANDARD AS GUIDES.
3. DISCREPANCIES IN THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND OWNER'S REPRESENTATIVE/COR. CONTRACTOR SHALL PROVIDE THE HIGHER GRADE OF QUALITY AND/OR GREATER QUANTITY OF WORK WHEN BIDDING IF A CLARIFICATION CAN NOT BE OBTAINED BY THE BID DUE DATE.
4. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SCOPE OF WORK WITH OWNER'S REPRESENTATIVE/COR AND VARIOUS FACILITY PERSONNEL INVOLVED WITH UTILITY SHUT DOWN, INFECTION CONTROLS, OCCUPANT/EMPLOYEE SAFETY, ACCESS CONTROL, ETC.
5. ANY INDICATION OF PROJECT LIMITS OR BOUNDARY OF DEMARCATION ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, THE FULL SCOPE OF THE PROJECT LIMIT OF BOUNDARY REQUIRES COORDINATION WITH THE DESIGN SCOPE OF WORK AND ACCESS TO EXISTING UTILITIES FOR TIE IN.
6. DRAWINGS ARE PREPARED FROM FIELD VERIFICATION, EXISTING FACILITY DRAWING BASE FILES, AND USING DIMENSIONS, CONFIGURATIONS AND DETAILS OF SPECIFIC MANUFACTURERS AS A BASIS OF DESIGN. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ACTUAL DIMENSIONS, THE COORDINATION OF THE DETAILS WITH THE PRODUCTS WHICH ARE PROVIDED PER THE SCOPE OF THE SPECIFICATIONS AND THE SURROUNDING CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS, ROUGH-IN DIMENSIONS, CONNECTIONS, AND OVERALL INSTALLATION REQUIREMENTS.
7. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETION OF THE ENTIRE SCOPE OF WORK OUTLINED IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL SUB-CONTRACTORS AND THE SCOPE OF WORK THEY PROVIDE. SUB-CONTRACTORS ARE RESPONSIBLE FOR THEIR FULL SCOPE OF WORK WITHIN THE CONTRACT DOCUMENTS, TRADES ARE NOT SEGMENTED TO ONLY CERTAIN SHEETS AND SPECIFICATIONS, CROSS COORDINATION IS REQUIRED.
8. CONTRACTOR AND SUB-CONTRACTORS ARE BOTH RESPONSIBLE FOR UNDERSTANDING INFORMATION OUTLINED IN THE SPECIFICATIONS, KEY NOTES, GENERAL NOTES, LEGEND, CODES, ETC., PROVIDED IN THE CONTRACT DOCUMENTS.
9. CONTRACTOR AND SUB-CONTRACTORS ARE BOTH RESPONSIBLE FOR PROVIDING AND MAINTAINING SMOKE/FIRE RATINGS OF NEW CONSTRUCTION AND EXISTING CONSTRUCTION AS INDICATED ON DRAWINGS. THIS INCLUDES PATCHING PENETRATIONS IN SHAFTS, WALLS, SLABS AND ROOF. ONLY U.L. APPROVED METHODS, MATERIALS AND INSTALLATION ARE ACCEPTABLE.
10. MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWINGS SHOW INFORMATION IN A DIAGRAMMATIC FASHION WITHOUT DIMENSIONING. THE GENERAL CONTRACTOR IS TO COORDINATE THE LOCATIONS OF ALL MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT WITH RESPECT TO THE ARCHITECTURAL AND STRUCTURAL DETAILING OF SHAFTS, CHASES, CEILING CONSTRUCTION, ETC.
11. CONTRACTOR IS RESPONSIBLE FOR VERIFYING DIMENSIONS IDENTIFIED AND NOT IDENTIFIED IN THE CONTRACT DOCUMENTS WITH THE EXISTING AND NEW CONSTRUCTION ELEMENTS. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION BETWEEN THE CONTRACT DOCUMENTS, INSTALLED AND UNINSTALLED CONSTRUCTION BEFORE THE ORDERING OF MATERIALS AND EQUIPMENT. NOTIFY ARCHITECT AND OWNER'S REPRESENTATIVE/COR OF ANY DISCREPANCIES OR MISSING DIMENSIONS.
12. DO NOT SCALE THE DRAWINGS. DRAWING SCALES AS INDICATED ARE FOR GENERAL ORIENTATION AND CONTEXT ONLY.
13. THE TERM "ALIGN" MEANS TO INSTALL DIFFERENT/SIMILAR COMPONENTS OF CONSTRUCTION TO PROVIDE A FLUSH FINISH SURFACE.
14. ALL DIMENSIONS INDICATED ARE TO FACE OF FACE OF NEW STRUCTURAL MEMBERS, FACE OF NEW MASONRY, FACE OF NEW STUDS OR COLUMN GRID LINES UNLESS NOTED OTHERWISE.
15. FLOOR ELEVATION 100'-0" IS EQUAL TO THE FINISH FLOOR SLAB OF THE EXISTING SLAB FLOOR CONSTRUCTION UNLESS OTHERWISE NOTED.
16. ROUGH OPENINGS SHALL ALLOW FOR SHIM SPACE.
17. CONTRACTOR TO PROVIDE WORK WHERE DETAILS AND NOTES ARE IDENTIFIED AS "TYPICAL" OR "SIMILAR" EACH INSTANCE THAT IS THE SAME IN NATURE TO THE DETAIL, AREA, OR ITEM REFERENCED.
18. PROVIDED WORK SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DELIVERY, MOUNTING, INSTALLATION, NECESSARY BLOCKING AND ROUGH-IN.
19. INSTALLED WORK IS THE CONTRACTOR INSTALLING OWNER FURNISHED MATERIALS AND EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF MATERIAL DELIVERY, MOUNTING, INSTALLATION AND ROUGH IN.
20. FURNISHED WORK IS THE CONTRACTOR FURNISHING THE MATERIALS AND EQUIPMENT TO THE OWNER. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DELIVERY AND ROUGH-IN.
21. ALL PROVIDED WORK SHALL BE WITH NEW MATERIALS UNLESS SPECIFICALLY CALLED OUT AS SALVAGED OR RELOCATED WITHIN THE CONTRACT DOCUMENTS.
22. ALL PERSONS DIRECTLY OR INDIRECTLY ASSOCIATED WITH THE PROJECT SHALL BE FAMILIAR WITH THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT, AND IMPLEMENT THOSE RULES AS THEY APPLY TO THIS PROJECT.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITY LINES. LOCATIONS SHOWN ARE APPROXIMATE. REPAIR ALL DAMAGE TO UTILITY LINES CAUSED BY CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING AND SHORING REQUIRED DURING CONSTRUCTION.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ADJACENT CONSTRUCTION, FINISHES, EQUIPMENT, AND TRAVEL ROUTE TO AND FROM THE CONSTRUCTION SITE. ANY DAMAGE OR UNACCEPTABLE WEAR BY THE CONSTRUCTION TEAM SHALL BE REPAIRED/REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
26. IN THE CASE OF CONFLICTS OR DISCREPANCIES WITHIN OR AMONG THE CONTRACT DRAWINGS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUALITY OF WORK, AS DETERMINED BY THE COR, SHALL BE PROVIDED.
27. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND COORDINATING HARDWARE, ACCESS CONTROL AND AUTOMATIC OPERATORS ARE PROVIDED WITH COMPLETE AND COMPATIBLE SYSTEMS REQUIRED FOR THEIR OPERATION. REFER TO DOOR HARDWARE SCHEDULE, HARDWARE SPECIFICATIONS, AUTOMATIC OPERATOR SPECIFICATIONS, ACCESS CONTROL SPECIFICATIONS AND ELECTRICAL DRAWINGS.

Revisions: | Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON | CHARLOTTE ENGINEERS

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STAMP
STATE OF GEORGIA · LUKE J. LEISING · CERTIFICATE NO. RA012872 · REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ARCHITECTURAL SYMBOLS AND ABBREVIATIONS

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
Construct TDVV CLC 12 Beds

Location
180 MARTIN DR, CARROLLTON, GA 30117

Issue Date 12/16/2024 | **Checked** JF | **Drawn** TS

Project Number
508-349

Building Number

Drawing Number
AE001

VA FORM 08 - 6231
Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC/22.9003_A_v22.rvt
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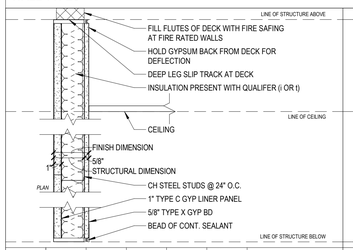
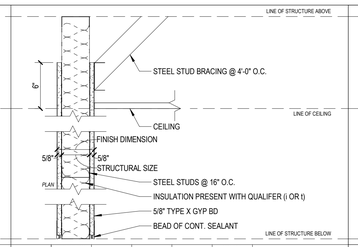
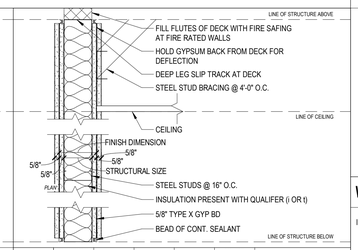
WALL TYPES



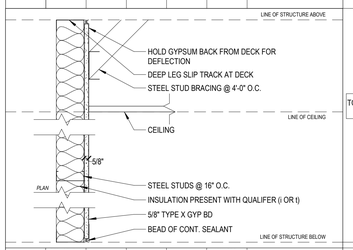
WALL TAG	STRUCTURAL SIZE	FINISH DIM	FIRE RATING	UL DESIGN	MIN STC RATING	COMMENTS
CH2A.1F	2 1/2"	3 1/8"	1 HR.	U499	42	NA
CH4A.1F	4"	4 5/8"	1 HR.	U499	47	NA
CH6A.1F	6"	6 5/8"	1 HR.	U499	47	NA



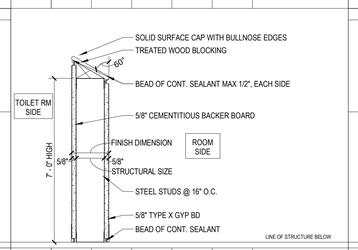
WALL TAG	STRUCTURAL SIZE	FINISH DIM	FIRE RATING	UL DESIGN	MIN STC RATING	COMMENTS
S2C.G	2 1/2"	3 3/4"	NA	NA	NA	NA
S3C.G	3 5/8"	4 7/8"	NA	NA	NA	NA
S6C.G	6"	7 1/4"	NA	NA	NA	NA



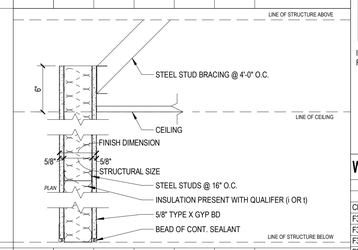
WALL TAG	STRUCTURAL SIZE	FINISH DIM	FIRE RATING	UL DESIGN	MIN STC RATING	COMMENTS
S3A.2F	3 5/8"	6 1/8"	2 HR.	U465	40	NA
S6A.2F	6"	8 1/2"	2 HR.	U465	40	NA



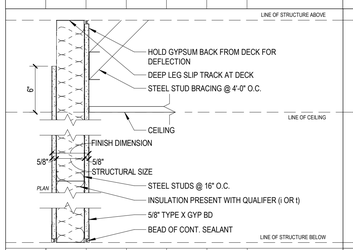
WALL TAG	STRUCTURAL SIZE	FINISH DIM	FIRE RATING	UL DESIGN	MIN STC RATING	COMMENTS
F3A.MR	3 5/8"	4 7/8"	NA	NA	NA	SOUND INSULATION



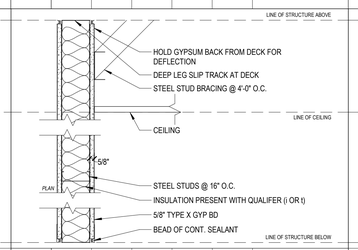
WALL TAG	STRUCTURAL SIZE	FINISH DIM	FIRE RATING	UL DESIGN	MIN STC RATING	COMMENTS
S3P.G	3 5/8"	4 7/8"	NA	NA	NA	NA
S6P.G	6"	7 1/8"	NA	NA	NA	NA



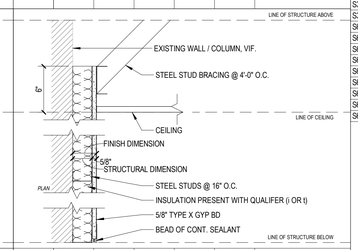
WALL TAG	STRUCTURAL SIZE	FINISH DIM	FIRE RATING	UL DESIGN	MIN STC RATING	COMMENTS
S2D.G	2 1/2"	3 3/4"	NA	NA	NA	NA
S3D.G	3 5/8"	4 7/8"	NA	NA	NA	NA
S6D.G	6"	7 1/4"	NA	NA	NA	NA



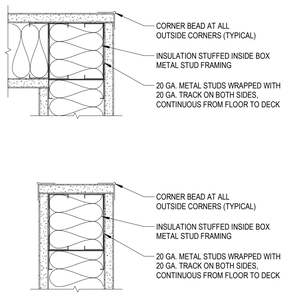
WALL TAG	STRUCTURAL SIZE	FINISH DIM	FIRE RATING	UL DESIGN	MIN STC RATING	COMMENTS
S2B.G	2 1/2"	3 3/4"	NA	NA	NA	NA
S3B.G	3 5/8"	4 7/8"	NA	NA	34	NA
S6B.G	6"	7 1/4"	NA	NA	37	NA
S3B.SP	3 5/8"	4 7/8"	NA	NA	NA	SMOKE PARTITION
S6B.SP	6"	7 1/4"	NA	NA	NA	SMOKE PARTITION



WALL TAG	STRUCTURAL SIZE	FINISH DIM	FIRE RATING	UL DESIGN	MIN STC RATING	COMMENTS
S2A.G	2 1/2"	3 3/4"	NA	NA	NA	NA
S3A.G	3 5/8"	4 7/8"	NA	NA	NA	NA
S3A.GI	3 5/8"	4 7/8"	NA	NA	NA	SOUND INSULATION
S6A.G	6"	7 1/4"	NA	NA	NA	NA
S6A.GI	6"	7 1/4"	NA	NA	NA	SOUND INSULATION

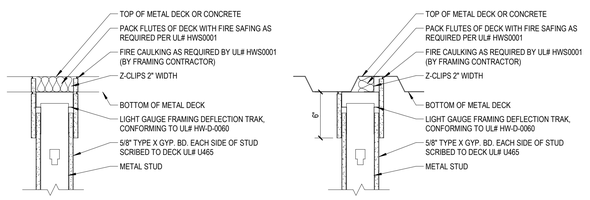


WALL TAG	STRUCTURAL SIZE	FINISH DIM	FIRE RATING	UL DESIGN	MIN STC RATING	COMMENTS
F0D.G	7/8"	1 1/2"	NA	NA	NA	HAT CHANNEL @ 24" O.C.
F1D.G	1 1/2"	2 1/8"	NA	NA	NA	HAT CHANNEL @ 24" O.C.
F2D.G	2 1/2"	3 1/8"	NA	NA	NA	NA
F3D.G	3 5/8"	4 1/4"	NA	NA	NA	NA
F6D.G	6"	6 5/8"	NA	NA	NA	NA
F3D.GI	3 5/8"	4 1/4"	NA	NA	NA	SOUND INSULATION
F3D.TB	3 5/8"	4 1/4"	NA	NA	NA	TILE BACKER CEMENT BOARD
F6D.TBI	6"	6 5/8"	NA	NA	NA	TILE BACKER CEMENT BOARD, SOUND INSULATION



3 / AE002 TYPICAL CORNER FRAMING DETAIL

SCALE: 3" = 1'-0"

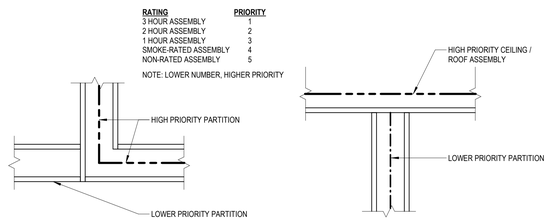


2 / AE002 DEFLECTION TRACK

SCALE: 1 1/2" = 1'-0"

RATING	PRIORITY
3 HOUR ASSEMBLY	1
2 HOUR ASSEMBLY	2
1 HOUR ASSEMBLY	3
SMOKE-RATED ASSEMBLY	4
NON-RATED ASSEMBLY	5

NOTE: LOWER NUMBER, HIGHER PRIORITY



AE002 RATED WALL PRIORITY

SCALE: 1 1/2" = 1'-0"

STENCILING NOTES

A. LETTERED STENCILS SHALL BE APPLIED TO EACH SIDE OF RATED PARTITIONS AT 10'-0" INTERVALS, BUT NO LESS THAN ONCE PER PARTITION LENGTH.

B. USE THE FOLLOWING LANGUAGE FOR STENCILS:
"1 HR FIRE/SMOKE" "1 HR FIRE"
"2 HR FIRE/SMOKE" "2 HR FIRE"
"LIMIT TRANSFER OF SMOKE"

WALL TAG LEGEND

X#X.#

INDICATES STRUCTURAL MATERIAL
- CH = SHAFT WALL
- F = FURRING
- S = STEEL
- M = MASONRY
- W = WOOD

INDICATES NOMINAL SIZE

	CH	F	S	M	W
0	--	7/8	--	--	--
1	--	1 1/2"	--	--	3/4"
2	2 1/2"	2 1/2"	2 1/2"	--	--
3	--	3 5/8"	3 5/8"	2 5/8"	3 1/2"
4	4"	4"	4"	3 5/8"	--
6	6"	6"	6"	5 5/8"	5 1/2"
8	--	8"	8"	7 5/8"	7 1/4"
12	--	12"	12"	11 5/8"	11 1/4"

INDICATES STRUCTURE AND FINISH HEIGHTS
- A = STRUCTURE TO DECK, FINISH TO DECK
- B = STRUCTURE TO DECK, FINISH ONE SIDE TO DECK
- C = STRUCTURE TO DECK, FINISH TO ABOVE CEILING
- D = STRUCTURE TO ABOVE CEILING, FINISH TO ABOVE CEILING
- P = PARTIAL HEIGHT WALL
- U = STRUCTURE TO UNDERSIDE OF CELING, FINISH TO UNDERSIDE OF CEILING

*SEE WALL TYPES FOR PROJECT SPECIFIC CONSTRUCTION

QUALIFIER'S (X-X-X)

G	GYPSUM BOARD FINISH
1SB	1 HR RATED SMOKE BARRIER
2SB	2 HR RATED SMOKE BARRIER
1F	1 HR FIRE RATED
2F	2 HR FIRE RATED
i	SOUND INSULATION
t	THERMAL INSULATION
B	BULLET RESISTANT
L	LEAD LINED
M	MESH (STEEL SECURITY MESH)
MR	MOIST/MOLD RESISTANT GYPSUM
SP	SMOKE PARTITION
TB	TILE BACKER CEMENT BOARD

WALL TYPE SCHEDULE

WALL TYPES USED IN THIS PROJECT
CH4A.1F
F3A.MR
F3D.G
F3D.GI
F3D.TB
F3D.TBI
S3A.1F
S3A.1SBI
S3A.2F
S3A.G
S3A.GI
S3A.TB
S3D.G
S3D.TB
S6A.1FI
S6A.1SBI
S6A.2F
S6A.G
S6A.GI
S6A.TB
S6A.TBI
S6P.G
S6P.TB

WALL TYPES LEGEND AND GENERAL NOTES

A. ALL WALLS WILL BE WALL TYPS S3A.G UNLESS OTHERWISE NOTED.

B. ALL WALL TYPE INDICATORS REFER TO THIS SHEET UNLESS OTHERWISE NOTED.

C. REFER TO DIMENSION PLANS FOR PARTITION TYPE LOCATIONS. PARTITIONS ARE DISTINGUISHED ON PLANS BY SYMBOL DESIGNATION GRAPHIC DESIGNATION, OR A COMBINATION OF BOTH. NOT ALL PARTITIONS ON THIS SHEET MAY BE USED. REFER TO PARTITION TYPE SCHEDULE ON THIS SHEET FOR PARTITIONS USED ON THIS PROJECT.

D. ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD, OR TO FACE OF BLOCK.

E. ALL WALLS TO BE 16" O.C. UNLESS OTHERWISE NOTED.

F. REFER TO SPECIFICATIONS AND TO TABLE ON THIS SHEET FOR MINIMUM STUD GAUGE, MAXIMUM SPACING AND ALLOWABLE LIMITING HEIGHT DEFLECTION CRITERIA FOR GYPSUM BOARD ASSEMBLIES AND REQUIRED FINISHES. FOR WALLS WHERE STUDS ARE ATTACHED TO STRUCTURE ABOVE, PROVIDE CROSS BRACING AS NECESSARY MEETING THE CRITERIA INDICATED TO ACCOMMODATE THE SPECIFIED DEFLECTION CRITERIA OF THE WALL.

G. ALL INTERIOR NON-BEARING STUDS TO BE DESIGNED FOR A DEFLECTION EQUAL TO BUT NOT GREATER THAN L/240, UNLESS FULL HEIGHT FINISH IS DETERMINED TO BE FRAGILE OR BRITTLE, THEN DEFLECTION TO BE L/360. EXAMPLES OF FRAGILE FINISHES WOULD INCLUDE BUT NOT LIMITED TO ANY TYPE OF WALL TILE, PLASTER OR PLASTER SKIM COAT.

H. ALTHOUGH WALL STUD SIZES ARE LISTED ON PLANS AND THIS SHEET, IN AREAS WHERE STUDS ARE TO STRUCTURE ABOVE OR HIGH AREAS, CONTRACTOR TO VERIFY SIZED INDICATED IS ADEQUATE FOR HEIGHT LISTED. PROVIDE ADEQUATE SIZE STELL STUD FRAMING AND NOTIFY ARCHITECT OF ANY DISCREPANCY PRIOR TO FABRICATION OR INSTALLATION.

I. KING STUDS AT DOOR FRAMES TO BE 18 GA. UNLESS OTHERWISE NOTED.

J. PROVIDE 5/8" TYPE "X" GYPSUM WALLBOARD FOR ALL OTHER WALL CONSTRUCTION, UNLESS OTHERWISE NOTED.

K. PROVIDE 5/8" TYPE "X" GYPSUM WALLBOARD IN BULKHEAD CONSTRUCTION.

L. REFER TO LIFE SAFETY PLANS FOR LOCATIONS AND RATINGS OF SMOKE AND FIRE RATED PARTITIONS. REFERENCE TEST NUMBERS APPLY ONLY TO PARTITIONS INDICATED TO BE RATED.

M. FIRE RATING TEST NUMBERS ARE FOR UNDERWRITER'S LABORATORIES (UL) ASSEMBLIES UNLESS OTHERWISE NOTED.

N. FIRE RESISTANT RATED PARTITIONS SHALL EXTEND TO THE INSIDE FACE OF EXTERIOR SHEATHING, INCLUDING EXTENSIONS THROUGH SOFFITS.

O. SEAL ALL OPENINGS, GAPS, PENETRATIONS, AND JOINTS IN PARTIONS TYPES AS FOLLOWS:
- a. FIRE RATED PARTITIONS: SEAL IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED FOR THROUGH PENETRATION FIRESTOP SYSTEMS AND FIRE RESISTIVE JOINT SYSTEMS.
- b. SMOKE TIGHT PARTITIONS: SEAL COMPLETELY WITH ELASTOMERIC SEALANT. FOR THE LOCATION AND EXTENT OF PARTITIONS, DESIGNATED AS "SMOKE TIGHT", REFER TO THE LIFE SAFETY DRAWINGS.
- c. ALL OTHER LOCATIONS: SEAL AS INDICATED AND REQUIRED ELSEWHERE BY THE CONTRACT DOCUMENTS.

P. INSULATION HEAD CONDITIONS AT FLOOR / ROOF DECK:
- a. FIRE RESISTANT RATED PARTITIONS SHALL USE MINERAL WOOL INSULATION AND APPROPRIATE FIRE RATED SEALANT.
- b. NON-RATED PARTITIONS REQUIRING SOUND ATTENUATION SHALL USE SOUND ATTENUATION BATTS (SAB).

Q. PROVIDE STENCILED IDENTIFICATION FOR RATED PARTITIONS.

R. STC RATING APPLIES WHERE PARTION TAG QUALIFIER INDICATES WITH AN "i". PROVIDE SOUND ATTENUATION BATTS OF THICKNESS INDICATED ON SCHEDULE WHERE INDICATED BY QUALIFIER.

S. FOR PARTITIONS WITH STC RATINGS INDICATED SOUND ATTENUATION BATTS TO EXTEND FULL HEIGHT OF PARTITION UNLESS OTHERWISE NOTED. FLOOR TRACK TO BE SET IN A CONTINUOUS BED OF SEALANT.

T. WHERE PARTITION TYPE INDICATES SOUND ACOUSTICAL BAT, WITH FINISH BOARD GOING TO DECK ON ONE SIDE ONLY, PROVIDE VAPOR BARRIER TO SECURE INSULATION IN PLACE.

U. PROVIDE 5/8" MOISTURE/MOLD RESISTANT GYPSUM BOARD IN SOILED ROOMS, BATHROOMS, TOILET ROOMS, ON WALLS BEHIND PLUMBING FIXTURES, AND IN ALL WET LOCATIONS EXCEPT IN SHOWER AREA.

V. PROVIDE 5/8" CEMENTITIOUS BACKER BOARD BEHIND CERAMIC WALL TILE & SHOWER AREA. COORDINATE LOCATIONS WITH FINISH WALL PLANS.

W. PROVIDE CORNER AND END WALL FRAMING AS DETAILED ON 3/AE002.

WALL RATING LEGEND

1 HR SMOKE BARRIER

1 HR FIRE RATED

SSMA NON-COMPOSITE STUDS

NOTE:
- TYPICAL LIMITING HEIGHTS-INTERIOR PARTITIONS, L/240 (5 PSF), WITH 5/8"GYPSUM BOARD EACH SIDE.
- PROVIDE DIAGONAL STUD BRACING AT ALL NON FULL HEIGHT INTERIOR PARTITIONS STAGGERED AT 48" O.C. TO DECK ABOVE. PROVIDE STUD ATTACHMENT TO DECK W/ MIN. SPAN OF 2 DECK FLUTES. BRACING TO BE THE SAME SIZE AND GAUGE AS VERTICAL STUDS.

25 GA. STUDS (NON-COMPOSITE)

STUD WIDTH	STUD SPACING	ALLOW. DEFLECTION	HEIGHT
1-5/8"	16"	L/240	6'-11"
162S125-18	24"	L/240	6'-0"
2-1/2"	16"	L/240	9'-6"
250S125-18	24"	L/240	8'-4"
3-5/8"	16"	L/240	12'-5"
362S125-18	24"	L/240	10'-10"
4"	16"	L/240	13'-9"
400S125-18	24"	L/240	12'-0"

22 GA. STUDS (NON-COMPOSITE)

STUD WIDTH	STUD SPACING	ALLOW. DEFLECTION	HEIGHT
1-5/8"	16"	L/240	8'-1"
162S125-27	24"	L/240	7'-1"
2-1/2"	16"	L/240	11'-2"
250S125-27	24"	L/240	9'-9"
3-5/8"	16"	L/240	14'-6"
362S125-27	24"	L/240	12'-8"
4"	16"	L/240	16'-1"
400S125-27	24"	L/240	14'-0"
6"	16"	L/240	22'-4"
600S125-27	24"	L/240	19'-6"

20 GA. STUDS (NON-COMPOSITE)

STUD WIDTH	STUD SPACING	ALLOW. DEFLECTION	HEIGHT
1-5/8"	16"	L/240	8'-4"
162S125-30	24"	L/240	7'-3"
2-1/2"	16"	L/240	11'-7"
250S125-30	24"	L/240	10'-1"
3-5/8"	16"	L/240	15'-0"
362S125-30	24"	L/240	13'-1"
4"	16"	L/240	16'-8"
400S125-30	24"	L/240	14'-7"
6"	16"	L/240	23'-1"
600S125-30	24"	L/240	20'-2"

18 GA. STUDS (NON-COMPOSITE)

STUD WIDTH	STUD SPACING	ALLOW. DEFLECTION	HEIGHT
2-1/2"	16"	L/240	13'-0"
250S125-43	24"	L/240	11'-5"
3-5/8"	16"	L/240	17'-5"
362S125-43	24"	L/240	15'-3"
4"	16"	L/240	18'-10"
400S125-43	24"	L/240	16'-5"
6"	16"	L/240	26'-1"
600S125-43	24"	L/240	22'-10"

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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STATE OF GEORGIA · LUKE J. LEISING · REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	WALL TYPES
Phase	BID DOCUMENTS
Approved:	
Project Title	Construct TDVV CLC 12 Beds
Location	180 MARTIN DR, CARROLLTON, GA 30117
Issue Date	12/16/2024
Checked	JF
Drawn	TS
Project Number	508-349
Building Number	
Drawing Number	AE002

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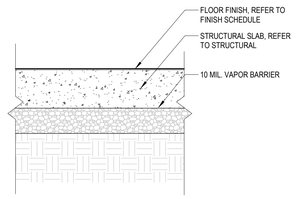
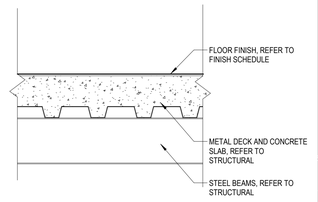
FLOOR TYPES



REFER TO PLANS AND SECTIONS FOR LOCATIONS AND DIMENSIONS

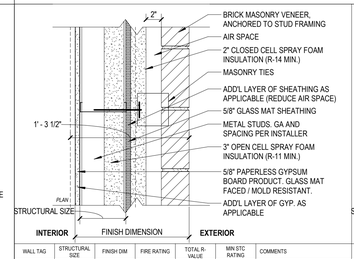
FT-1 FLOOR SYSTEM: SLAB ON GRADE



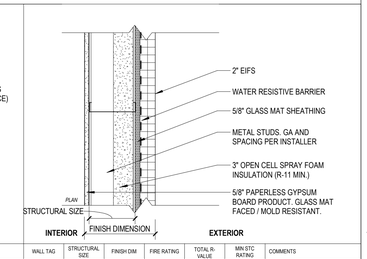
REFER TO PLANS AND SECTIONS FOR LOCATIONS AND DIMENSIONS

FT-2 FLOOR SYSTEM: ELEVATED SLAB

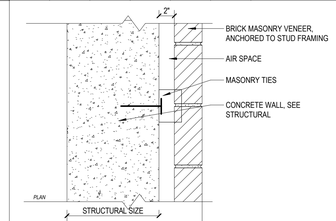
EXTERIOR WALL TYPES



WALL TAG	STRUCTURAL SIZE	FINISH DIM	FIRE RATING	TOTAL R-VALUE	MIN STC RATING	COMMENTS
NA	6"	1' - 2 7/8"	NA	NA	NA	MR GYPSUM
EXT-1	6"	1' - 2 7/8"	NA	R-11+R14ci	NA	
EXT-1.2F	6"	1' - 3 1/2"	2 HR	R-11+R14ci	NA	MR GYPSUM. UL U419

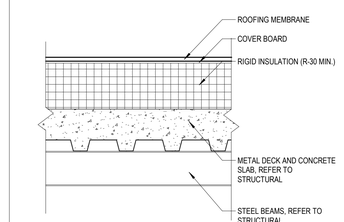


WALL TAG	STRUCTURAL SIZE	FINISH DIM	FIRE RATING	TOTAL R-VALUE	MIN STC RATING	COMMENTS
NA	6"	9 1/4"	NA	NA	NA	MR GYPSUM
EXT-2	6"	9 1/4"	NA	R-11+R14ci	NA	



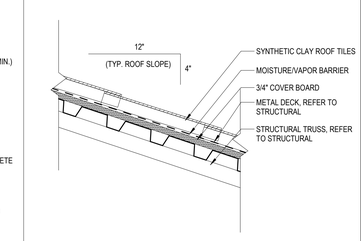
WALL TAG	STRUCTURAL SIZE	FINISH DIM	FIRE RATING	UL DESIGN	MIN STC RATING	COMMENTS
NA	6"	1' - 3 5/8"	NA	NA	NA	
EXT-3	1' - 0"	1' - 5 5/8"	NA	NA	NA	

ROOF TYPES



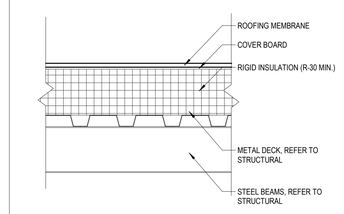
REFER TO PLANS AND SECTIONS FOR LOCATIONS AND DIMENSIONS

RT-3 ROOF SYSTEM: ROOFING MEMBRANE ON ROOF DECK



REFER TO PLANS AND SECTIONS FOR LOCATIONS AND DIMENSIONS

RT-2 ROOF SYSTEM: SYNTHETIC CLAY TILE ROOFING



REFER TO PLANS AND SECTIONS FOR LOCATIONS AND DIMENSIONS

RT-3 ROOF SYSTEM: ROOFING MEMBRANE ON ROOF DECK

CODE RELATED INFORMATION

CLIMATE ZONE 3A WARM HUMID

ENVELOPE REQUIREMENT
ROOF: R-25CI OR R-13+R-7.5ci
WALLS: R-13 + R7.5 CI

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON | CHARLOTTE ENGINEERS

CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
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CHARLOTTE, NC 28212

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STATE OF GEORGIA · LUKE J. LEISING · REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: CONSTRUCTION TYPES	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 · Checked: JF · Drawn: TS	Drawing Number: AE003

Autodesk Docs://22.9003 - VA Atlanta Tinka Davis CLC/22.9003_A_v22.rvt
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ARCHITECTURAL PLAN GENERAL NOTES

-REFERS TO SHEETS AE100 & AE102-

A. REFERENCE STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL FOR COORDINATION ITEMS. COORDINATE AS REQUIRED INCLUDING NECESSARY FRAMING, BLOCKING, ETC.

B. VERIFY EXISTING FIELD CONDITIONS PRIOR TO BEGINNING WORK, AND REPORT DISCREPANCIES IMMEDIATELY TO ARCHITECT FOR CLARIFICATION.

C. ALL HANDRAILS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF AMERICANS WITH DISABILITIES ACT GUIDELINES AND ALL CODES AND REGULATIONS HAVING JURISDICTION, THE MOST STRINGENT SHALL PREVAIL.

D. PROVIDE MINIMUM CLEARANCES AT ALL DOORS PER ADA REQUIREMENTS.

E. WHERE NO DIMENSION IS INDICATED, FINISH DOORS 6" FROM EDGE OF STUD FRAMING AT CORNERS UNLESS OTHERWISE NOTED.

F. REFER TO SHEET AQ101 FOR EQUIPMENT SCHEDULE AND INFORMATION.

G. REFER TO SHEET AE002 FOR ACCESSORIES TO BE PROVIDED IN THE TOILET/BATH ROOMS AND AT THE HAND LAVATORIES.

H. LEVEL AND INFILL FLOOR SLAB TO RECEIVE NEW FLOORING. REFER TO SPECIFICATIONS AND FLOORING MANUFACTURE'S TOLERANCES FOR ADDITIONAL INFORMATION.

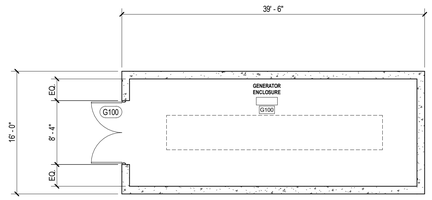
I. PROVIDE METAL PLATE ON UNDERSIDE OF FLOOR SLAB WHERE CONCRETE INFILL IS REQUIRED AND CHIP AWAY CONCRETE AT FLOOR LEVEL TO CREATE A SLOPED OPENING/LIP TO PATCH PENETRATIONS AND PREVENT CONCRETE INFILL CORE FROM FALLING THROUGH OPENING TO FLOOR BELOW.

J. SEE SHEET A001 FOR ARCHITECTURAL SYMBOLS LEGEND.

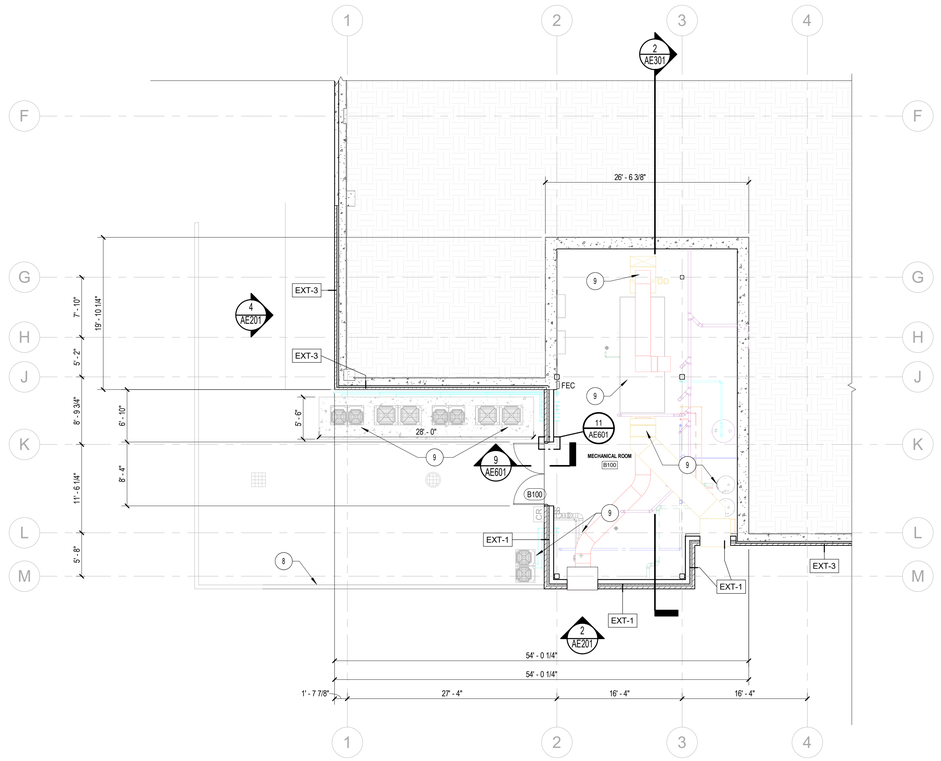
ARCHITECTURAL PLAN SPECIFIC NOTES

-REFERS TO SHEETS AE100 & AE102-

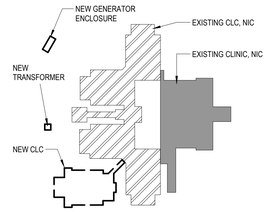
1. PROVIDE FIRE EXTINGUISHER AND CABINET, SEE SPECIFICATIONS.
2. SECURITY GATE, SEE CIVIL DRAWINGS.
3. IN LIEU OF GWB ON INTERIOR OF THIS ROOM, PROVIDE AC GRADE 3/4" FIRE RATED PLYWOOD ON ALL WALLS, w/ 2 COATS OF HIGH GLOSS WHITE FIRE RETARDANT PAINT.
4. ROOF ACCESS LADDER.
5. PROVIDE FIRE SUPPRESSION SYSTEM, SEE FOODSERVICE DRAWINGS.
6. DASHED LINE OF ROOF EAVES SHOWN ABOVE.
7. DASHED LINE OF CEILING SOFFIT SHOWN ABOVE.
8. 4'-0" HIGH CONCRETE RETAINING WALL, SEE STRUCTURAL.
9. MECHANICAL EQUIPMENT. RE: MECHANICAL DRAWINGS FOR FURTHER INFORMATION. EXTERIOR EQUIPMENT TO BE MOUNTED ON CONCRETE PAD, RE: CIVIL DRAWINGS FOR MORE INFORMATION.
10. KITCHEN EQUIPMENT. RE: FOOD SERVICE DRAWINGS FOR FURTHER INFORMATION.
11. LIGHTING BOLLARD. RE: ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
12. PROVIDE CLASS K FIRE EXTINGUISHER. SEE FIRE PROTECTION DRAWINGS.
13. PROVIDE HANDS FREE WALL MOUNTED EYEWASH STATION.



2 AE100 GENERATOR ENCLOSURE ARCHITECTURAL PLAN
SCALE: 1/8" = 1'-0"



1 AE100 BASEMENT FLOOR DIMENSION AND ARCHITECTURAL AND PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON / CHARLOTTE ENGINEERS

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BASEMENT FLOOR ARCHITECTURAL PLAN	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 · Checked: JF · Drawn: BS	Drawing Number: AE100

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DIMENSION PLAN GENERAL NOTES

-REFERS TO SHEETS AE100 & AE101-

A. ALL DIMENSIONS SHOWN ARE TO FACE OF WALL FRAMING/ MASONRY UNLESS NOTED OTHERWISE. DIMENSIONS DESIGNATED AS "CLR" OR "CLEAR" INDICATE A CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.

B. VERIFY EXISTING FIELD CONDITIONS PRIOR TO BEGINNING WORK, AND REPORT DISCREPANCIES IMMEDIATELY TO ARCHITECT FOR CLARIFICATION.

C. CONTRACTOR TO MAINTAIN/REPAIR RATING OF EXISTING PARTITIONS AS AFFECTED BY DEMOLITION/NEW CONSTRUCTION, TYPICAL THROUGHOUT.

D. PROVIDE CONTROL JOINT ON CONTINUOUS GYPSUM BOARD WALLS GREATER THAN 30' LONG.

E. PROVIDE CONTROL JOINTS AT CORNERS OF DOORS OR WINDOWS.

F. WHERE NO DIMENSION IS INDICATED, FINISH DOORS 6" FROM EDGE OF STUD FRAMING AT CORNERS UNLESS OTHERWISE NOTED.

G. ALL NEW PARTITIONS ARE WALL TYPE S3A.GI UNLESS NOTED OTHERWISE. REFER TO WALL TYPE GENERAL NOTES AE002 FOR WALL BOARD MATERIAL.

H. NON-RATED WALL CONSTRUCTION THAT FORMS CHASE AREAS DOES NOT REQUIRE GYPSUM BOARD INSTALLATION ON INTERIOR OF CHASE WALL. REFER TO WALL TYPE F3D.GI.

I. COLUMN DIMENSIONS ARE FOR REFERENCE AND SHALL BE VERIFIED IN THE FIELD.

J. REFER TO ENLARGED FLOOR PLANS FOR ADDITIONAL DIMENSIONS FOR TOILET AND BATH ROOMS.

K. DIMENSIONS INDICATED AS 'VIF' MAY INCREASE OR DECREASE TO MATCH FIELD CONDITIONS. ALL OTHER DIMENSIONS WITHIN THE DIMENSION STRING MUST BE MAINTAINED.

L. PROVIDE BLOCKING AND STRAPPING FOR WALL MOUNTED CASEWORK, FURNITURE, AND ACCESSORIES. COORDINATE WITH FLOOR PLANS, SCHEDULES, ELEVATIONS, AND ENGINEERING DRAWINGS FOR FULL SCOPE OF WORK.

M. WHERE NO DIMENSION OF COLUMN ENCLOSURES ARE GIVEN, INSTALL TIGHT TO COLUMNS TO MINIMIZE ENCROACHMENT INTO SPACE.

DIMENSION PLAN SPECIFIC NOTES

-REFERS TO THIS SHEET ONLY-

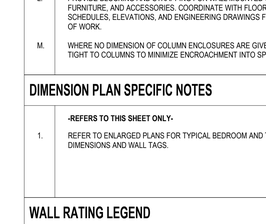
1. REFER TO ENLARGED PLANS FOR TYPICAL BEDROOM AND TOILET ROOM DIMENSIONS AND WALL TAGS.

WALL RATING LEGEND

1 HR SMOKE BARRIER

1 HR FIRE RATED

1 AE101 **FIRST FLOOR DIMENSION PLAN**
SCALE: 1/8" = 1'-0"



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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRST FLOOR DIMENSION PLAN	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number:
		Issue Date: 12/16/2024 · Checked: JF · Drawn: TS	Drawing Number: AE101

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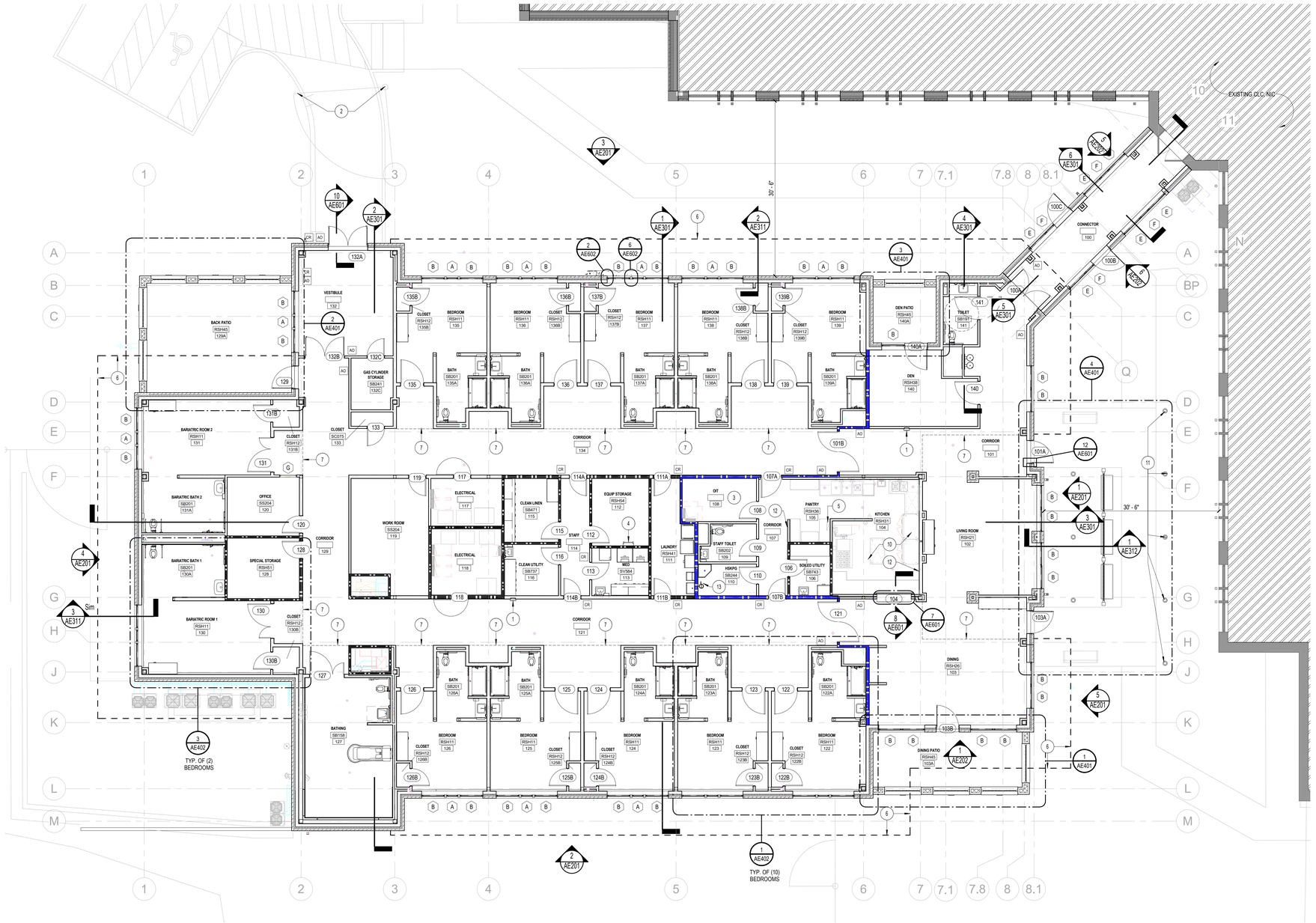


1 AE102 FIRST FLOOR ARCHITECTURAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

ARCHITECTURAL PLAN GENERAL NOTES

-REFERS TO SHEETS AE100 & AE102-

A. REFERENCE STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL FOR COORDINATION ITEMS. COORDINATE AS REQUIRED INCLUDING NECESSARY FRAMING, BLOCKING, ETC.

B. VERIFY EXISTING FIELD CONDITIONS PRIOR TO BEGINNING WORK, AND REPORT DISCREPANCIES IMMEDIATELY TO ARCHITECT FOR CLARIFICATION.

C. ALL HANDRAILS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF AMERICANS WITH DISABILITIES ACT GUIDELINES AND ALL CODES AND REGULATIONS HAVING JURISDICTION, THE MOST STRINGENT SHALL PREVAIL.

D. PROVIDE MINIMUM CLEARANCES AT ALL DOORS PER ADA REQUIREMENTS.

E. WHERE NO DIMENSION IS INDICATED, FINISH DOORS 6" FROM EDGE OF STUD FRAMING AT CORNERS UNLESS OTHERWISE NOTED.

F. REFER TO SHEET AQ101 FOR EQUIPMENT SCHEDULE AND INFORMATION.

G. REFER TO SHEET AE002 FOR ACCESSORIES TO BE PROVIDED IN THE TOILET/BATH ROOMS AND AT THE HAND LAVATORIES.

H. LEVEL AND INFILL FLOOR SLAB TO RECEIVE NEW FLOORING. REFER TO SPECIFICATIONS AND FLOORING MANUFACTURE'S TOLERANCES FOR ADDITIONAL INFORMATION.

I. PROVIDE METAL PLATE ON UNDERSIDE OF FLOOR SLAB WHERE CONCRETE INFILL IS REQUIRED AND CHIP AWAY CONCRETE AT FLOOR LEVEL TO CREATE A SLOPED OPENING/LIP TO PATCH PENETRATIONS AND PREVENT CONCRETE INFILL CORE FROM FALLING THROUGH OPENING TO FLOOR BELOW.

J. SEE SHEET A001 FOR ARCHITECTURAL SYMBOLS LEGEND.

ARCHITECTURAL PLAN SPECIFIC NOTES (#)

-REFERS TO SHEETS AE100 & AE102-

1. PROVIDE FIRE EXTINGUISHER AND CABINET, SEE SPECIFICATIONS.
2. SECURITY GATE, SEE CIVIL DRAWINGS.
3. IN LIEU OF GWB ON INTERIOR OF THIS ROOM, PROVIDE AC GRADE 3/4" FIRE RATED PLYWOOD ON ALL WALLS, w/ 2 COATS OF HIGH GLOSS WHITE FIRE RETARDANT PAINT.
4. ROOF ACCESS LADDER.
5. PROVIDE FIRE SUPPRESSION SYSTEM, SEE FOODSERVICE DRAWINGS.
6. DASHED LINE OF ROOF EAVES SHOWN ABOVE.
7. DASHED LINE OF CEILING SOFFIT SHOWN ABOVE.
8. 4'-0" HIGH CONCRETE RETAINING WALL, SEE STRUCTURAL.
9. MECHANICAL EQUIPMENT. RE: MECHANICAL DRAWINGS FOR FURTHER INFORMATION. EXTERIOR EQUIPMENT TO BE MOUNTED ON CONCRETE PAD. RE: CIVIL DRAWINGS FOR MORE INFORMATION.
10. KITCHEN EQUIPMENT. RE: FOOD SERVICE DRAWINGS FOR FURTHER INFORMATION.
11. LIGHTING BOLLARD. RE: ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
12. PROVIDE CLASS K FIRE EXTINGUISHER. SEE FIRE PROTECTION DRAWINGS.
13. PROVIDE HANDS FREE WALL MOUNTED EYEWASH STATION.

WALL RATING LEGEND

1 HR SMOKE BARRIER

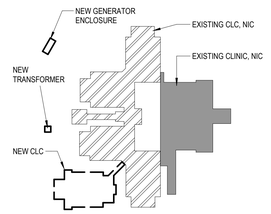
1 HR FIRE RATED

ELECTRIFIED DOOR HARDWARE LEGEND

SEE AE601, ELECTRICAL DRAWINGS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION

AO AUTOMATIC DOOR OPENER

CR CARD READER



KEY PLAN

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON / CHARLOTTE ENGINEERS

CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
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5838 MONROE ROAD
CHARLOTTE, NC 28212

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRST FLOOR ARCHITECTURAL PLAN	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 · Checked: JF · Drawn: BS	Drawing Number: AE102

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ROOF PLAN GENERAL NOTES

-REFERS TO SHEETS AE103 & AE104-

A. ROOFING SUPPLIERS, MANUFACTURERS, & INSTALLERS SHALL REVIEW ALL ROOFING DETAILS & ADVISE THE ARCHITECT ON ANY RECOMMENDED CHANGES.

B. UNLESS NOTIFIED OTHERWISE, ROOFING SUPPLIERS, MANUFACTURERS AND INSTALLERS WILL BE ASSUMED TO HAVE REVIEWED AND APPROVED THE DETAILS SHOWN.

C. PROVIDE FLASHING AND SEALANT PER ROOFING MANUFACTURER RECOMMENDATION AT ALL CONDUIT & HVAC LINES PENETRATING THE ROOF.

D. CONTRACTOR & ALL SUBTRADES SHALL BE AWARE & EXERCISE THE NECESSARY CARE TO PREVENT DAMAGE TO OR PUNCTURE OF THE ROOF. THIS SHALL INCLUDE ALL MATERIALS, TOOLS, DELETERIOUS MATERIALS.

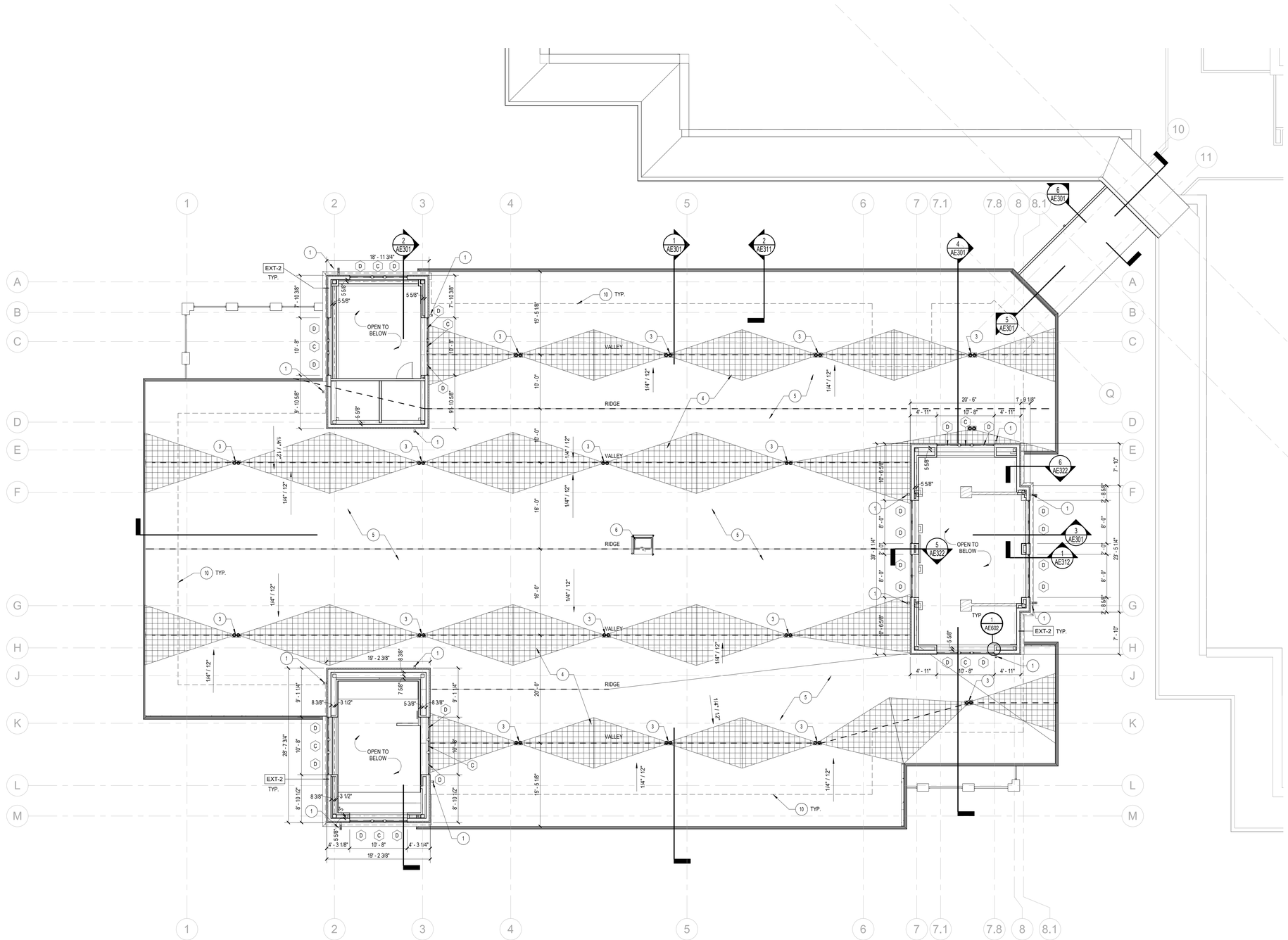
E. REFERENCE STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL FOR ITEMS. COORDINATE AS REQUIRED INCLUDING NECESSARY FRAMING, BLOCKING, ETC.

F. VERIFY EXISTING FIELD CONDITIONS PRIOR TO BEGINNING WORK, AND REPORT DISCREPANCIES IMMEDIATELY

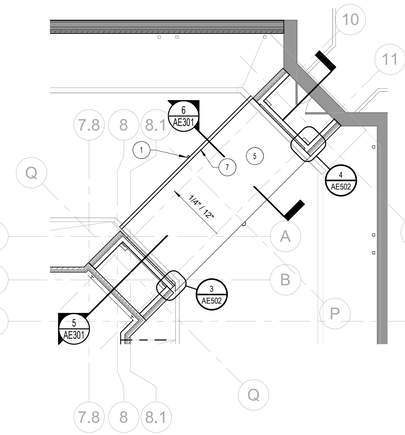
ROOF PLAN SPECIFIC NOTES

-REFERS TO SHEETS AE103 & AE104-

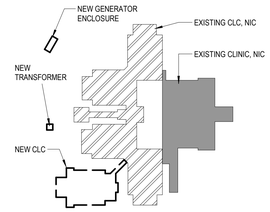
1. 4" X 4" DOWNSPOUT.
2. INTEGRAL GUTTER @ PERIMETER OF UPPER ROOF, SEE WALL SECTIONS.
3. ROOF DRAIN AND OVERFLOW ROOF DRAIN, SEE PLUMBING DRAWINGS.
4. HATCH INDICATES TAPERED INSULATION @ 1/4" PER FOOT, TYPICAL.
5. ROOF ASSEMBLY SLOPED @ 1/4" PER FOOT. SEE SPECIFICATIONS.
6. ROOF HATCH, SEE SPECIFICATIONS, STRUCTURAL DRAWINGS, AND DETAIL 2/AE104.
7. GUTTER @ EDGE OF CORRIDOR ROOF, SEE WALL SECTIONS.
8. 2' - 0" ICE AND WATER DAM AROUND PERIMETER OF ROOF.
9. PROVIDE RIDGE VENTS ON RIDGES OF SLOPED ROOF.
10. DASHED LINE INDICATES FACE OF EXTERIOR WALL BELOW.



1 AE103 CLERESTORY AND LOWER ROOF PLAN
SCALE: 1/8" = 1'-0"



2 AE103 CORRIDOR ROOF PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: CLERESTORY AND LOWER ROOF PLAN	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number:
		Issue Date: 12/16/2024 / Checked: JF / Drawn: TS	Drawing Number: AE103

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ROOF PLAN GENERAL NOTES

-REFERS TO SHEETS AE103 & AE104-

A. ROOFING SUPPLIERS, MANUFACTURERS, & INSTALLERS SHALL REVIEW ALL ROOFING DETAILS & ADVISE THE ARCHITECT ON ANY RECOMMENDED CHANGES.

B. UNLESS NOTIFIED OTHERWISE, ROOFING SUPPLIERS, MANUFACTURERS AND INSTALLERS WILL BE ASSUMED TO HAVE REVIEWED AND APPROVED THE DETAILS SHOWN.

C. PROVIDE FLASHING AND SEALANT PER ROOFING MANUFACTURER RECOMMENDATION AT ALL CONDUIT & HVAC LINES PENETRATING THE ROOF.

D. CONTRACTOR & ALL SUBTRADES SHALL BE AWARE & EXERCISE THE NECESSARY CARE TO PREVENT DAMAGE TO OR PUNCTURE OF THE ROOF. THIS SHALL INCLUDE ALL MATERIALS, TOOLS, DELETERIOUS MATERIALS.

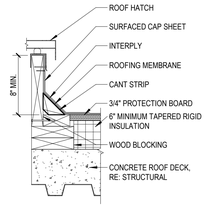
E. REFERENCE STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL FOR ITEMS. COORDINATE AS REQUIRED INCLUDING NECESSARY FRAMING, BLOCKING, ETC.

F. VERIFY EXISTING FIELD CONDITIONS PRIOR TO BEGINNING WORK, AND REPORT DISCREPANCIES IMMEDIATELY

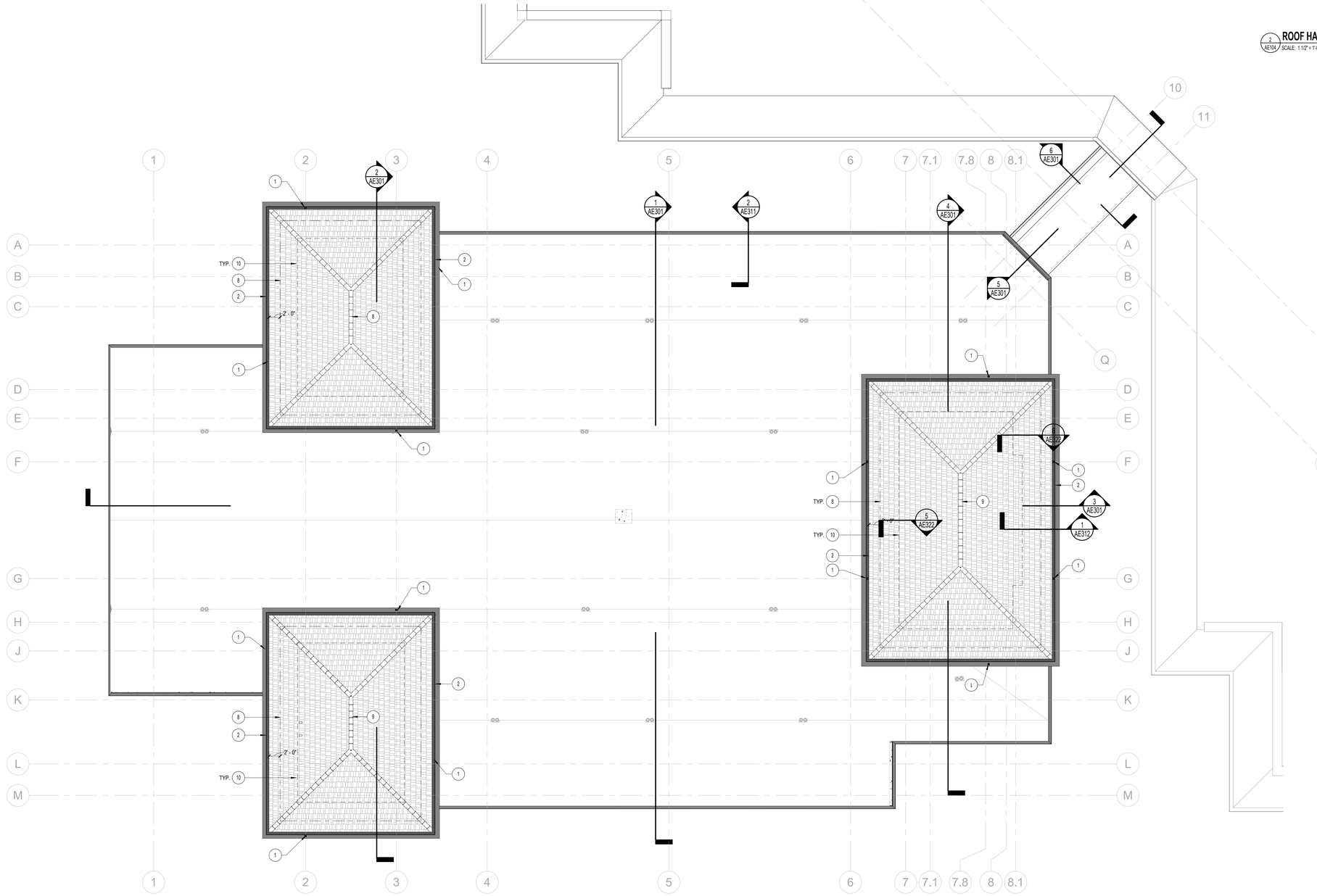
ROOF PLAN SPECIFIC NOTES

-REFERS TO SHEETS AE103 & AE104-

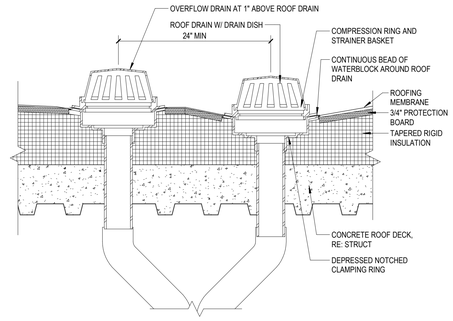
1. 4" X 4" DOWNSPOUT.
2. INTEGRAL GUTTER @ PERIMETER OF UPPER ROOF, SEE WALL SECTIONS.
3. ROOF DRAIN AND OVERFLOW ROOF DRAIN, SEE PLUMBING DRAWINGS.
4. HATCH INDICATES TAPERED INSULATION @ 1/4" PER FOOT, TYPICAL.
5. ROOF ASSEMBLY SLOPED @ 1/4" PER FOOT. SEE SPECIFICATIONS.
6. ROOF HATCH, SEE SPECIFICATIONS, STRUCTURAL DRAWINGS, AND DETAIL 2/AE104.
7. GUTTER @ EDGE OF CORRIDOR ROOF, SEE WALL SECTIONS.
8. 2' - 0" ICE AND WATER DAM AROUND PERIMETER OF ROOF.
9. PROVIDE RIDGE VENTS ON RIDGES OF SLOPED ROOF.
10. DASHED LINE INDICATES FACE OF EXTERIOR WALL BELOW.



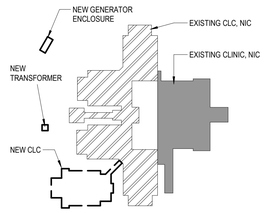
2/AE104 **ROOF HATCH DETAIL**
SCALE: 1 1/2" = 1'-0"



1/AE104 **UPPER ROOF PLAN**
SCALE: 1/8" = 1'-0"



3/AE104 **ROOF DRAIN DETAIL**
SCALE: 1 1/2" = 1'-0"



KEY PLAN

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
GUIDON DESIGN, INC.
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STATE OF GEORGIA — LUKE J. LEISING — REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: UPPER ROOF PLAN	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number:
		Issue Date: 12/16/2024 / Checked: JF / Drawn: TS	Drawing Number: AE104

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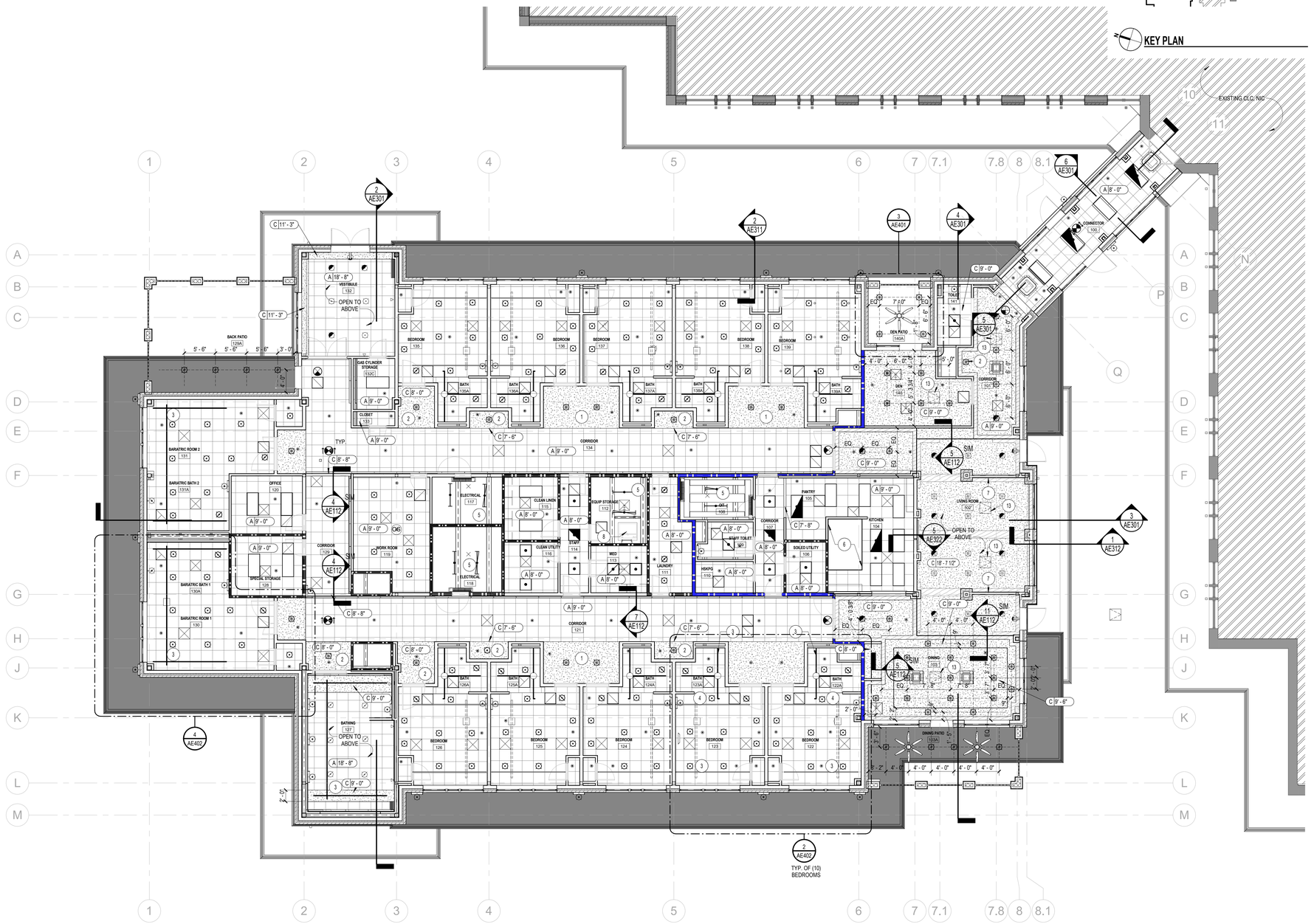

1 AE111 FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

-REFERS TO SHEETS AE111 & AE112-

A. THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN THE LAYOUT OF ALL CEILING ELEMENTS, HEIGHTS AND/OR PENETRATIONS. COORDINATION OF THE ARCHITECTURAL AND ENGINEERING ELEMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS TO VERIFY FIELD CONDITIONS AND REPORTS ANY DISCREPANCIES TO ARCHITECT AND COR.

B. SHOWN SIZES OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT ARE FOR REFERENCE ONLY. REFER TO ENGINEERING PLANS FOR ADDITIONAL INFORMATION. COORDINATE SCOPE OF WORK WITH ENGINEERING DRAWINGS, UNLESS OTHERWISE NOTED.

C. ACOUSTIC PANEL CEILING SHALL BE CENTERED IN THE ROOM AND INSTALLED TO ELIMINATE NARROW CUT STRIPS OF PANELS ALONG THE EDGES OF WALLS AND BULKHEADS, UNLESS OTHERWISE NOTED. COORDINATE WITH THE LIGHTING LAYOUT. THE LIGHTING SHALL BE CENTERED IN ROOMS.

D. CEILING MOUNTED ITEMS (SPRINKLER HEADS, MOUNTING DEVICES, ETC.) SHALL BE CENTERED IN THE CEILING PANELS UNLESS NOTED OTHERWISE.

E. ABOVE CEILING WORK REQUIRED BEYOND THE SCOPE OF THE WORK SHALL BE COORDINATED WITH PATIENT SAFETY, INFECTION CONTROL, AND COR.

F. CEILING TILE REMOVED IN ORDER TO COMPLETE ABOVE CEILING WORK SHALL BE STORED IN A SAFE DRY LOCATION. DAMAGED OR BROKEN CEILING TILES SHALL BE REPLACED. DRYWALL CEILINGS SHALL BE PATCHED, PREPPED AND NEW FINISH APPLIED TO MATCH EXISTING.

G. REFER TO FINISHES SHEETS AND SPECIFICATIONS FOR INFORMATION ON GYPSUM BOARD PAINT FINISH.

REFLECTED CEILING PLAN SPECIFIC NOTES (#)

-REFERS TO SHEETS AE111 & AE112-

1. CEILING SHALL MATCH DETAILS AS NOTED IN ENTRANCE TO ROOMS 122 AND 123.
2. CENTER CAN LIGHT IN BULKHEAD.
3. CEILING MOUNTED PATIENT LIFT. SEE EQUIPMENT PLAN.
4. ADJUST CEILING GRID BETWEEN BEDROOM AND BATHROOM AS INDICATED TO ACCOMMODATE CEILING MOUNTED FIXTURES.
5. NO CEILING THIS SPACE.
6. COORDINATE CEILING GRID AROUND EXHAUST HOOD. SEE KITCHEN EQUIPMENT DRAWINGS.
7. LOW WALL DOES NOT CONTACT CEILING/BULKHEAD ABOVE. REFER TO LIVING ROOM CEILING PLAN 1/AE112 FOR ADDITIONAL INFORMATION.
8. ROOF HATCH OPENING ABOVE.
9. NOT USED.
10. PROVIDE VENTED SOFFIT AT ROOF PERIMETER. SEE DETAILS AND SPECIFICATIONS.
11. PROVIDE 2'X2' ACCESS PANELS AS INDICATED. COORDINATE FINAL LOCATION WITH VA.
12. DOWNSPOUT, SEE ROOF PLANS.
13. 24" x 24" DRYWALL ACCESS PANEL W/ CONCEALED HARDWARE AND CONTINUOUS FLUSH FINISH FRAME.

REFLECTED CEILING TYPE LEGEND

TYPE	GRAPHIC	DESCRIPTION
		-REFERS TO SHEETS AE100 & AE102- -SEE MEP DRAWINGS FOR ALL MEP ITEMS-
A		2x2 ACOUSTICAL CEILING TILE (AT-1)
B		2x2 ACOUSTICAL CEILING TILE (AT-2)
C		GYPSUM BOARD CEILING. CEILING PAINT.
D		NO CEILING / EXISTING CEILING TO REMAIN
N/A		P.LAM PANEL. SEE DETAIL
N/A		CEILING FAN
N/A		LINEAR CORRIDOR LIGHT
N/A		VARIATIONS OF 2X2 OR 2X4 LIGHTS
N/A		RECESSED CAN LIGHT
N/A		VARIATIONS OF WALL SCONCES
N/A		SUPPLY DIFFUSER
N/A		RETURN DIFFUSER
N/A		EXHAUST GRILLE
N/A		CEILING AND SIDE WALL MOUNTED SPRINKLER HEADS
N/A		CEILING AND SIDE WALL MOUNTED EXIT SIGNS
N/A		MECHANICAL UNIT

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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STATE OF GEORGIA · LUKE J. LEISING · REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRST FLOOR REFLECTED CEILING PLAN	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 · Checked: JF · Drawn: TS	Drawing Number: AE111

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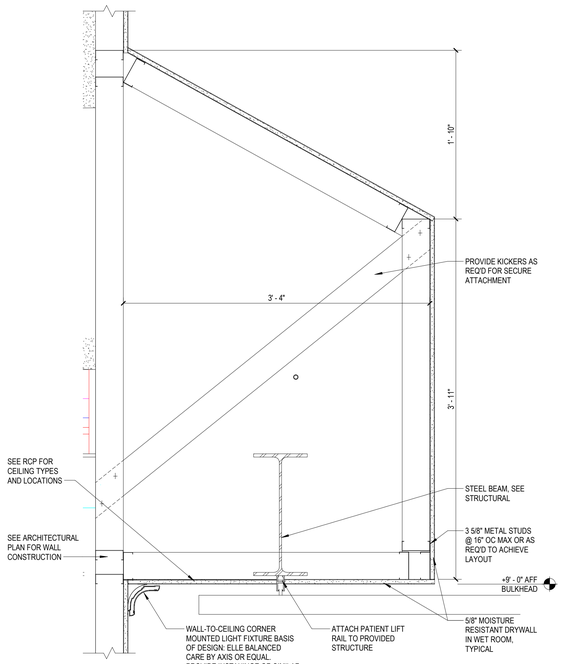
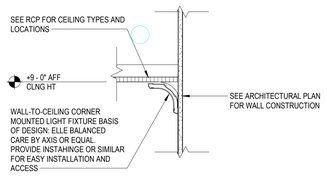
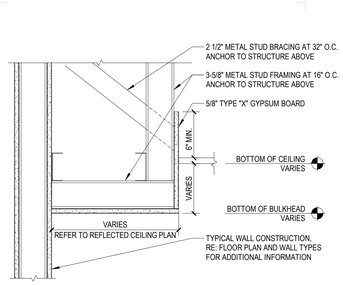


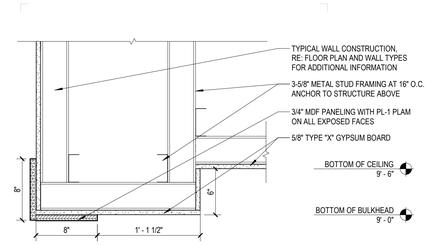
6 AE112 **BULKHEAD DETAIL**
SCALE: 1 1/2" = 1'-0"



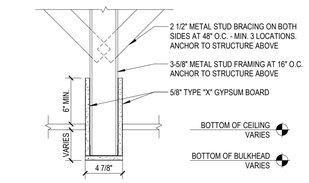
1 AE112 **TYP. WALL-TO-CEILING LIGHT FIXTURE MOUNT**
SCALE: 1 1/2" = 1'-0"



5 AE112 **TYPICAL BULKHEAD DETAIL**
SCALE: 1 1/2" = 1'-0"



11 AE112 **DINING ROOM BULKHEAD DETAIL**
SCALE: 1 1/2" = 1'-0"



4 AE112 **TYPICAL BULKHEAD DETAIL - SINGLE STUD**
SCALE: 1 1/2" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

-REFERS TO SHEETS AE111 & AE112-

A. THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN THE LAYOUT OF ALL CEILING ELEMENTS, HEIGHTS AND/OR PENETRATIONS. COORDINATION OF THE ARCHITECTURAL AND ENGINEERING ELEMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS TO VERIFY FIELD CONDITIONS AND REPORTS ANY DISCREPANCIES TO ARCHITECT AND COR.

B. SHOWN SIZES OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT ARE FOR REFERENCE ONLY. REFER TO ENGINEERING PLANS FOR ADDITIONAL INFORMATION. COORDINATE SCOPE OF WORK WITH ENGINEERING DRAWINGS, UNLESS OTHERWISE NOTED.

C. ACOUSTIC PANEL CEILING SHALL BE CENTERED IN THE ROOM AND INSTALLED TO ELIMINATE NARROW CUT STRIPS OF PANELS ALONG THE EDGES OF WALLS AND BULKHEADS, UNLESS OTHERWISE NOTED. COORDINATE WITH THE LIGHTING LAYOUT. THE LIGHTING SHALL BE CENTERED IN ROOMS.

D. CEILING MOUNTED ITEMS (SPRINKLER HEADS, MOUNTING DEVICES, ETC.) SHALL BE CENTERED IN THE CEILING PANELS UNLESS NOTED OTHERWISE.

E. ABOVE CEILING WORK REQUIRED BEYOND THE SCOPE OF THE WORK SHALL BE COORDINATED WITH PATIENT SAFETY, INFECTION CONTROL, AND COR.

F. CEILING TILE REMOVED IN ORDER TO COMPLETE ABOVE CEILING WORK SHALL BE STORED IN A SAFE DRY LOCATION. DAMAGED OR BROKEN CEILING TILES SHALL BE REPLACED. DRYWALL CEILINGS SHALL BE PATCHED, PREPPED AND NEW FINISH APPLIED TO MATCH EXISTING.

G. REFER TO FINISHES SHEETS AND SPECIFICATIONS FOR INFORMATION ON GYPSUM BOARD PAINT FINISH.

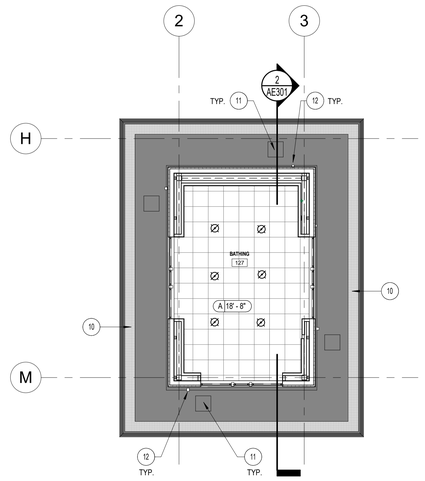
REFLECTED CEILING PLAN SPECIFIC NOTES (#)

-REFERS TO SHEETS AE111 & AE112-

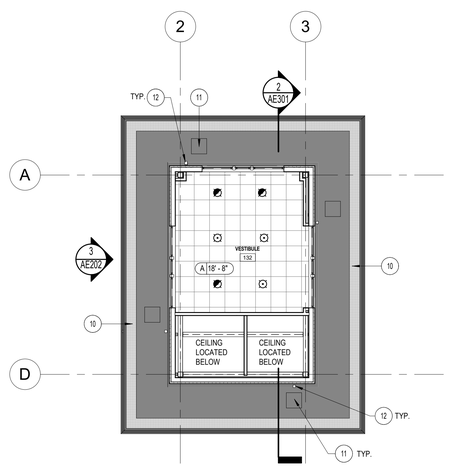
1. CEILING SHALL MATCH DETAILS AS NOTED IN ENTRANCE TO ROOMS 122 AND 123.
2. CENTER CAN LIGHT IN BULKHEAD.
3. CEILING MOUNTED PATIENT LIFT. SEE EQUIPMENT PLAN.
4. ADJUST CEILING GRID BETWEEN BEDROOM AND BATHROOM AS INDICATED TO ACCOMMODATE CEILING MOUNTED FIXTURES.
5. NO CEILING THIS SPACE.
6. COORDINATE CEILING GRID AROUND EXHAUST HOOD. SEE KITCHEN EQUIPMENT DRAWINGS.
7. LOW WALL DOES NOT CONTACT CEILING/BULKHEAD ABOVE. REFER TO LIVING ROOM CEILING PLAN 1/AE112 FOR ADDITIONAL INFORMATION.
8. ROOF HATCH OPENING ABOVE.
9. NOT USED.
10. PROVIDE VENTED SOFFIT AT ROOF PERIMETER. SEE DETAILS AND SPECIFICATIONS.
11. PROVIDE 2'X2' ACCESS PANELS AS INDICATED. COORDINATE FINAL LOCATION WITH VA.
12. DOWNSPOUT, SEE ROOF PLANS.
13. 24" x 24" DRYWALL ACCESS PANEL W/ CONCEALED HARDWARE AND CONTINUOUS FLUSH FINISH FRAME.

REFLECTED CEILING TYPE LEGEND

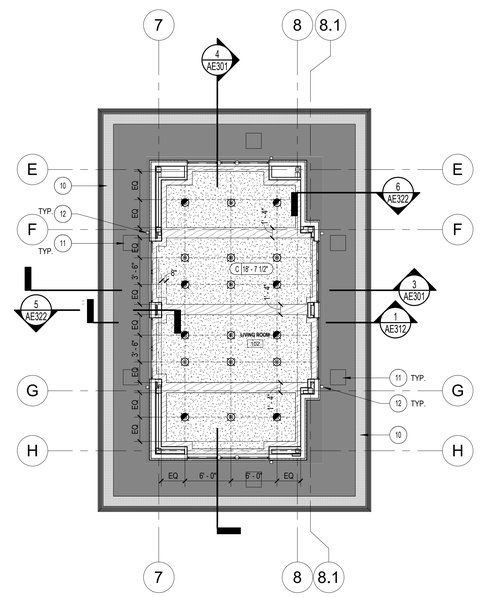
TYPE	GRAPHIC	DESCRIPTION
		-REFERS TO SHEETS AE100 & AE102- **-SEE MEP DRAWINGS FOR ALL MEP ITEMS-**
A		2x2 ACOUSTICAL CEILING TILE (AT-1)
B		2x2 ACOUSTICAL CEILING TILE (AT-2)
C		GYPSUM BOARD CEILING. CEILING PAINT.
D		NO CEILING / EXISTING CEILING TO REMAIN
N/A		P LAM PANEL. SEE DETAIL
N/A		CEILING FAN
N/A		LINEAR CORRIDOR LIGHT
N/A		VARIATIONS OF 2X2 OR 2X4 LIGHTS
N/A		RECESSED CAN LIGHT
N/A		VARIATIONS OF WALL SCONCES
N/A		SUPPLY DIFFUSER
N/A		RETURN DIFFUSER
N/A		EXHAUST GRILLE
N/A		CEILING AND SIDE WALL MOUNTED SPRINKLER HEADS
N/A		CEILING AND SIDE WALL MOUNTED EXIT SIGNS
N/A		MECHANICAL UNIT



3 AE112 **BATHING ROOM CEILING PLAN**
SCALE: 1/8" = 1'-0"



2 AE112 **VESTIBULE CEILING PLAN**
SCALE: 1/8" = 1'-0"



1 AE112 **LIVING ROOM CEILING PLAN**
SCALE: 1/8" = 1'-0"

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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CHARLOTTE, NC 28212

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STATE OF GEORGIA — LUKE J. LEISING — REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: UPPER REFLECTED CEILING PLANS AND DETAILS	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 / Checked: JF / Drawn: TS	Drawing Number: AE112

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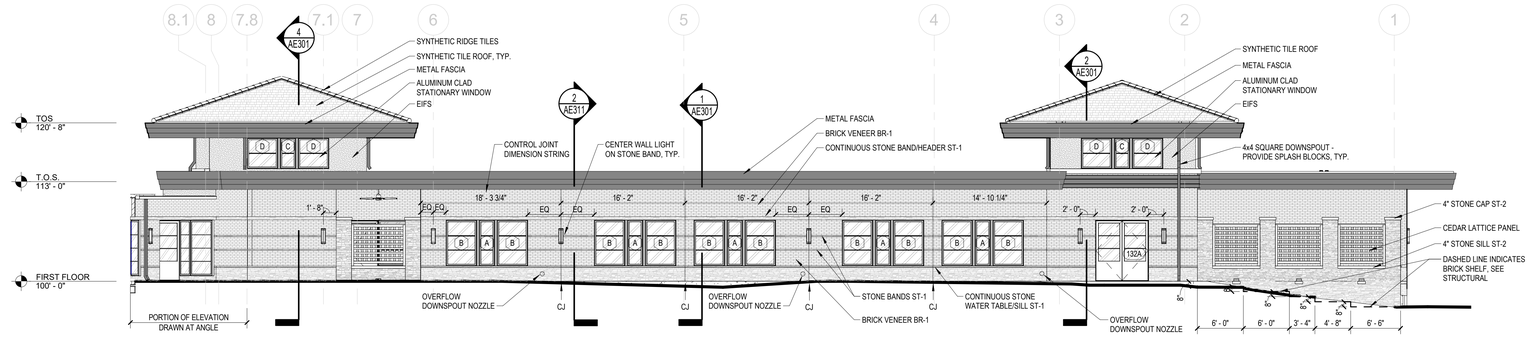
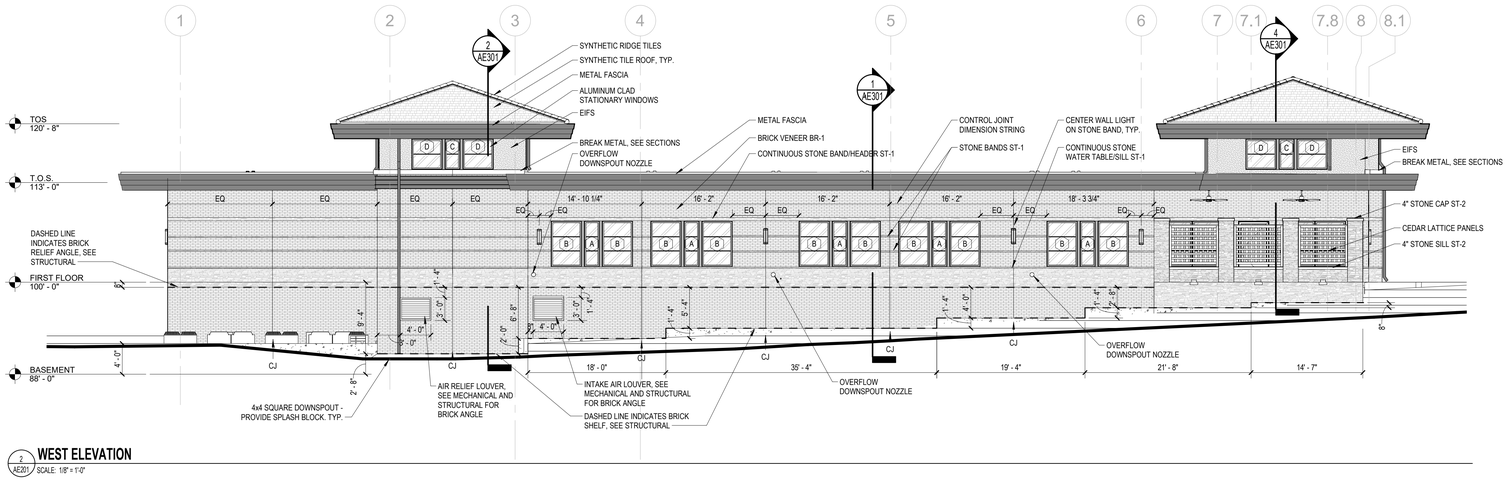


3 AE201 **EAST ELEVATION**
SCALE: 1/8" = 1'-0"



2 AE201 **WEST ELEVATION**
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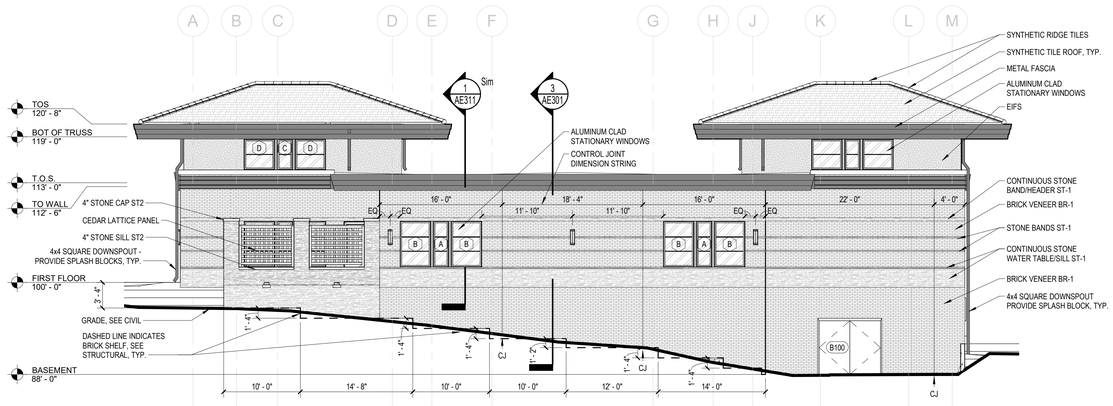
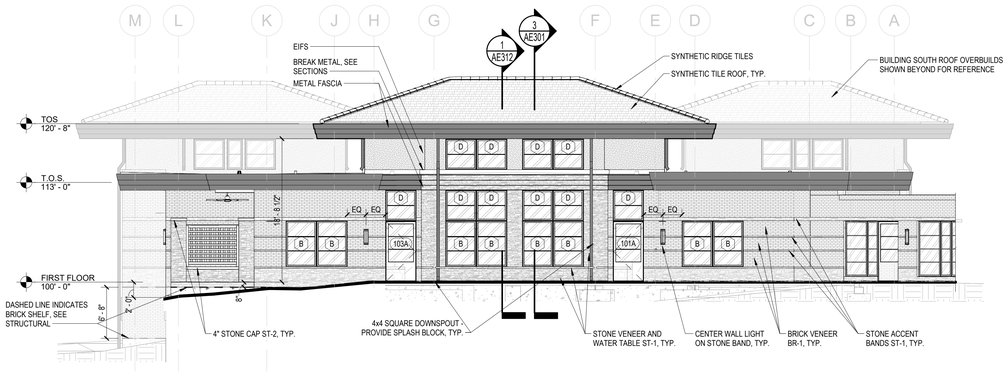


4 AE201 **NORTH ELEVATION**
SCALE: 1/8" = 1'-0"



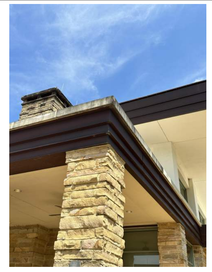
1 AE201 **SOUTH ELEVATION**
SCALE: 1/8" = 1'-0"

EXTERIOR FINISH LEGEND

SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION

- STONE VENEER ST-1
- 4" STONE CAP ST-2
- BRICK VENEER BR-1
- GLAZING, SEE WINDOW SCHEDULE
- METAL FASCIA (SEE NOTE BELOW)
- EIFS
- SYNTHETIC TILE ROOF
- CJ — CONTROL JOINT. ALIGN WITH CONTROL JOINT IN STRUCTURAL CONCRETE WHERE APPLICABLE

FASCIA NOTE



DESIGN INTENT: NEW FASCIA TO MATCH ADJACENT EXISTING BUILDING TO WHICH IT IS CONNECTED, INCLUDING GRAVEL STOPS, CLEATS, METAL GAUGE, ETC. CONTRACTOR SHALL EXAMINE EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND BEST DETERMINE THE MATERIAL AND FINISH TO BE USED ON ADDITION.

EXISTING FASCIA PICTURED ABOVE FOR REFERENCE.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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STATE OF GEORGIA — LUKE J. LEISING — REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING ELEVATIONS	Phase: BID DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: Construct TDVV CLC 12 Beds		Project Number: 508-349
		Building Number:
Location: 180 MARTIN DR, CARROLLTON, GA 30117		Drawing Number: AE201
Issue Date: 12/16/2024	Checked: JF	Drawn: TS

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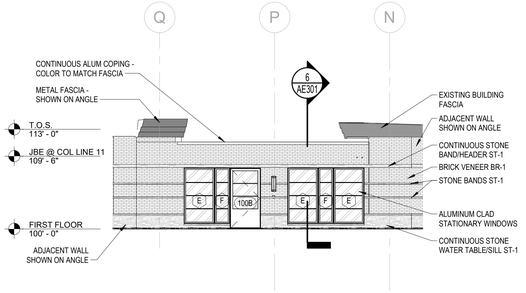
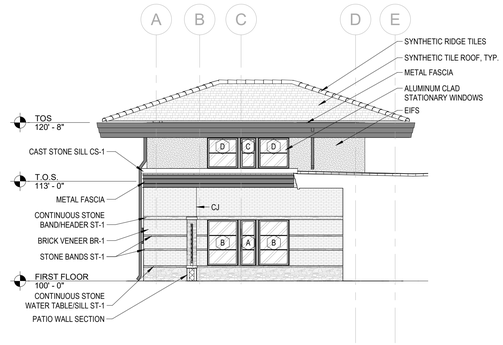
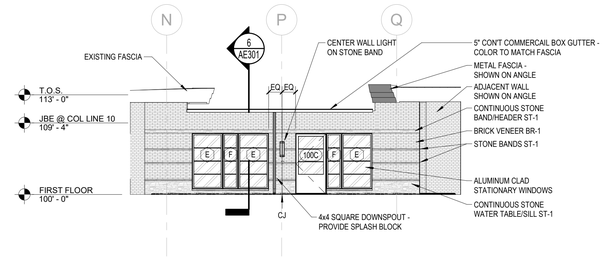


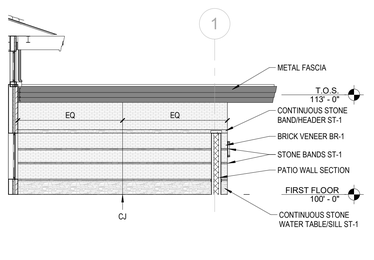
6 AE202 **CONNECTOR ELEVATION - SOUTH**
SCALE: 1/8" = 1'-0"



3 AE202 **PATIO 129A NORTH ELEVATION**
SCALE: 1/8" = 1'-0"



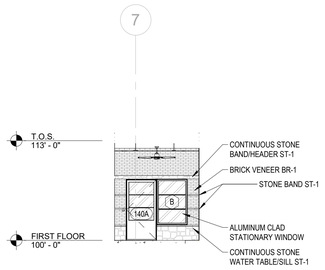
5 AE202 **CONNECTOR ELEVATION - NORTH**
SCALE: 1/8" = 1'-0"



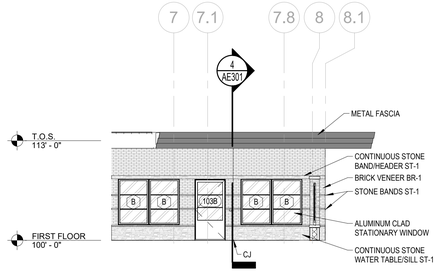
2 AE202 **PATIO 129A EAST ELEVATION**
SCALE: 1/8" = 1'-0"

*RENDERING MAY NOT FULLY REFLECT FINAL DESIGN.

7 AE202 **RENDERING - NORTHEAST**
SCALE: 3/4" = 1'-0"



4 AE202 **PATIO 140A EAST ELEVATION**
SCALE: 1/8" = 1'-0"



1 AE202 **PATIO 103A WEST ELEVATION**
SCALE: 1/8" = 1'-0"

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BUILDING ELEVATIONS
Phase	BID DOCUMENTS
Project Title	Construct TDVV CLC 12 Beds
Project Number	508-349
Building Number	
Approved:	
	FULLY SPRINKLERED
Location	180 MARTIN DR, CARROLLTON, GA 30117
Issue Date	12/16/2024
Checked	JF
Drawn	TS
Drawing Number	AE202

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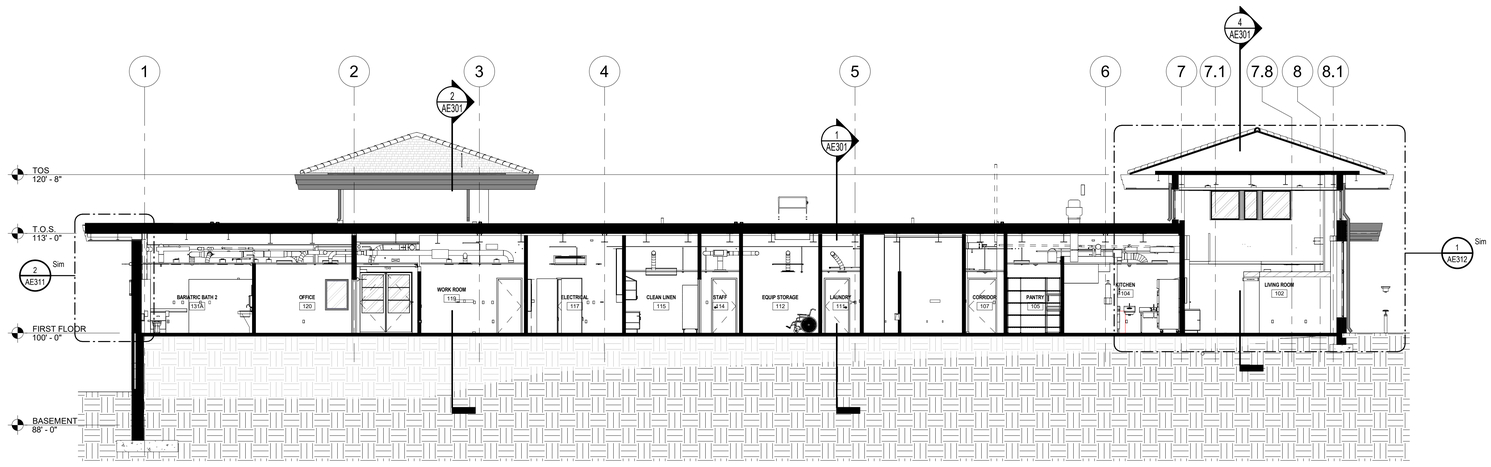
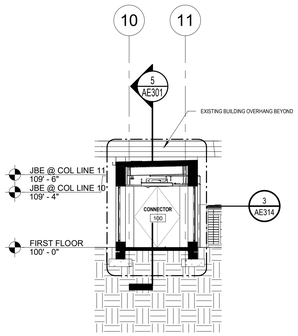
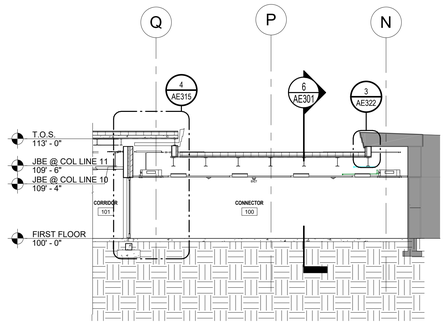
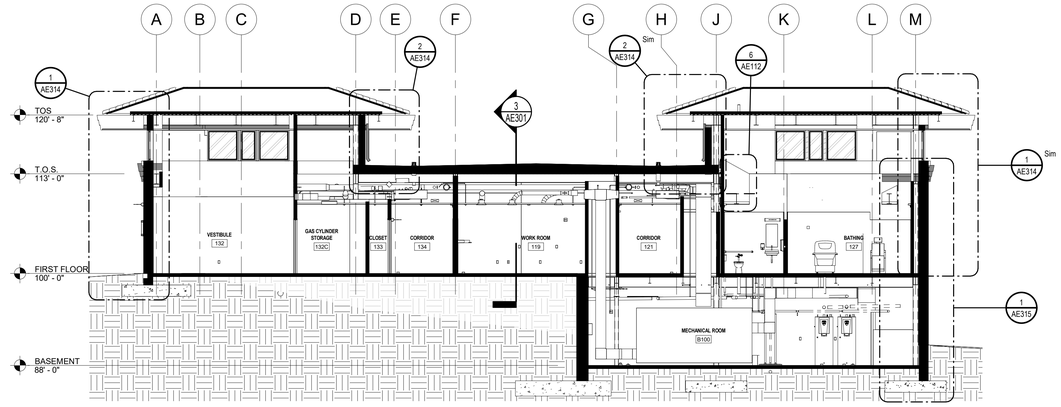


3 AE301 **NORTH/SOUTH BUILDING SECTION**
SCALE: 1/8" = 1'-0"



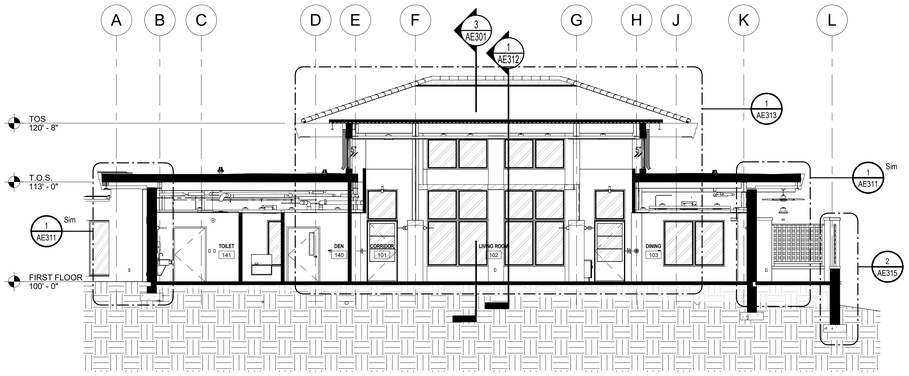


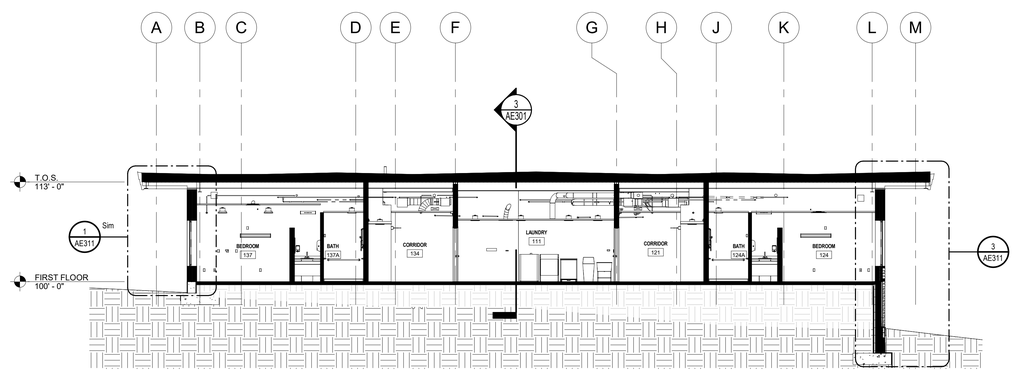


6 AE301 **CORRIDOR SECTION 2**
SCALE: 1/8" = 1'-0"

5 AE301 **CORRIDOR SECTION 1**
SCALE: 1/8" = 1'-0"

2 AE301 **EAST/WEST BUILDING SECTION 2**
SCALE: 1/8" = 1'-0"





2 AE301 **EAST/WEST BUILDING SECTION 3**
SCALE: 1/8" = 1'-0"

1 AE301 **EAST/WEST BUILDING SECTION 1**
SCALE: 1/8" = 1'-0"

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING SECTIONS	Phase: BID DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: Construct TDVV CLC 12 Beds		Project Number: 508-349
		Building Number:
Location: 180 MARTIN DR, CARROLLTON, GA 30117		Drawing Number: AE301
Issue Date: 12/16/2024	Checked: JF	Drawn: TS

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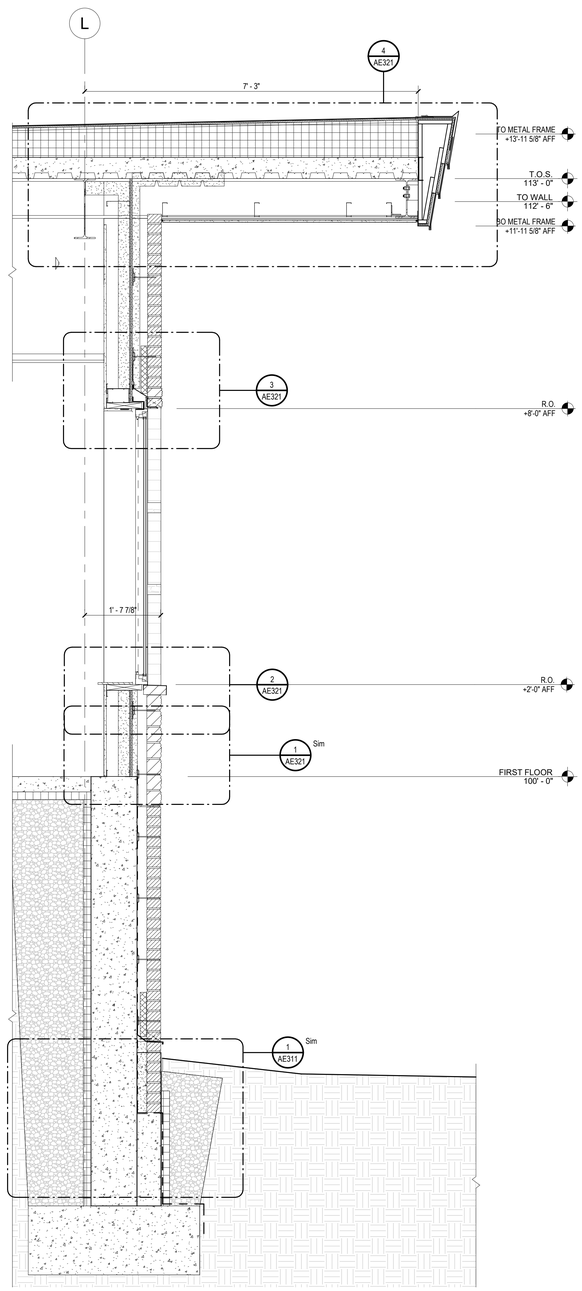
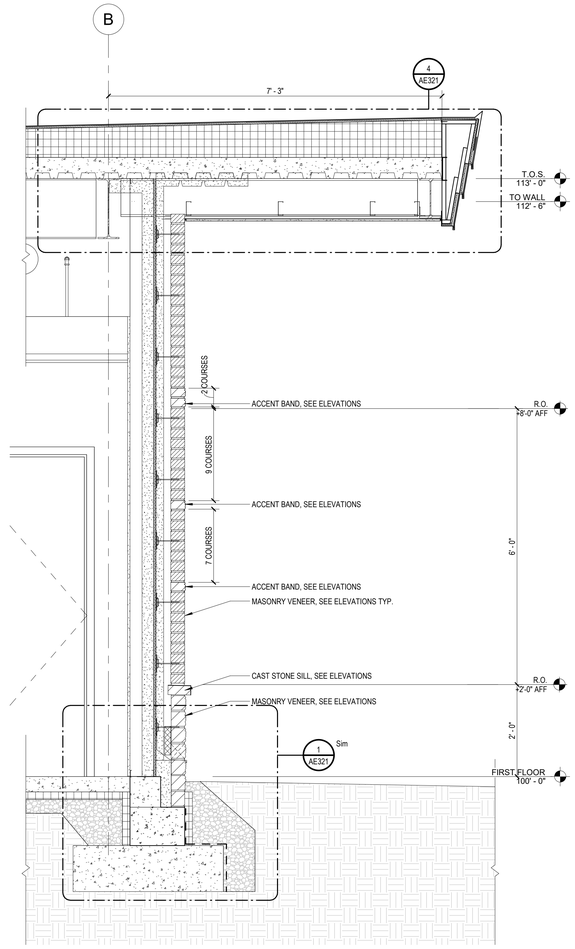
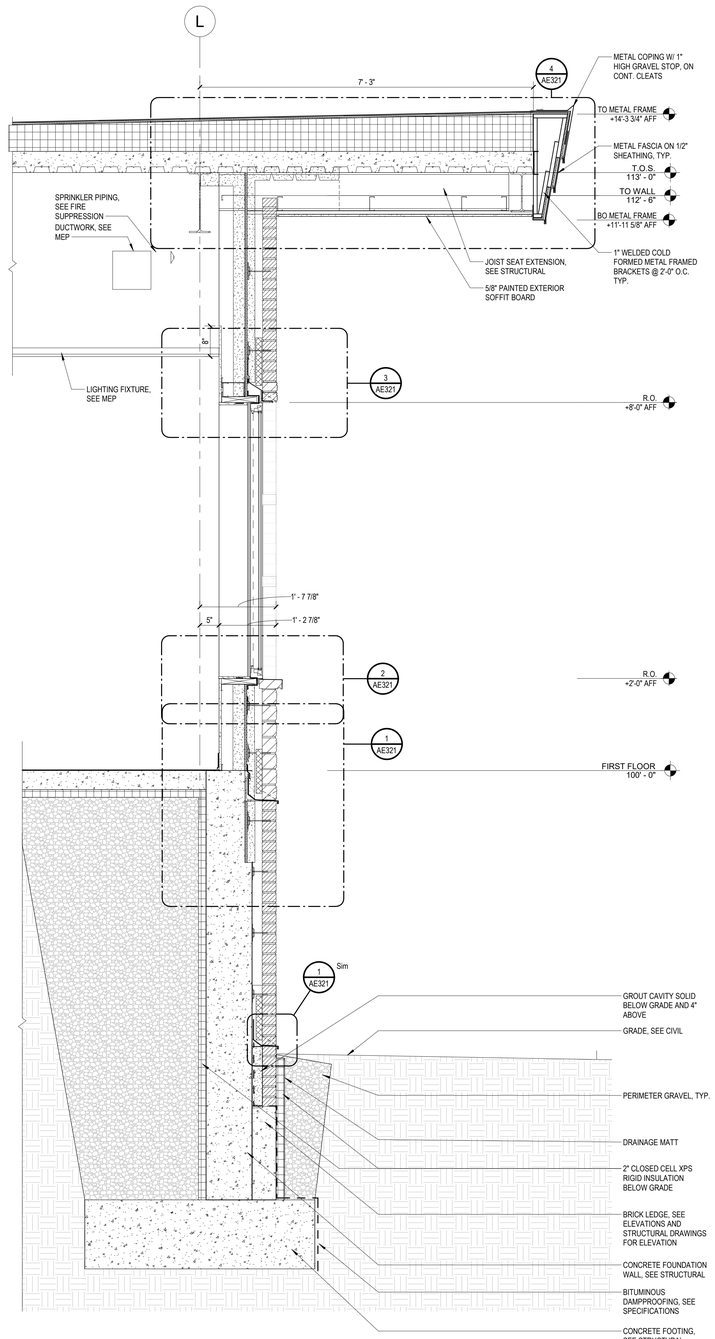


3 AE311 **WALL SECTION**
SCALE: 3/4" = 1'-0"



2 AE311 **TYP EXTERIOR WALL SECTION @ NO WINDOW**
SCALE: 3/4" = 1'-0"



1 AE311 **TYP EXTERIOR WALL SECTION - 1 STORY @ WINDOW**
SCALE: 3/4" = 1'-0"

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Drawing Title	WALL SECTIONS
Phase	BID DOCUMENTS
Project Title	Construct TDVV CLC 12 Beds
Project Number	508-349
Building Number	
Approved:	
Location	180 MARTIN DR, CARROLLTON, GA 30117
Drawing Number	AE311
Issue Date	12/16/2024
Checked	JF
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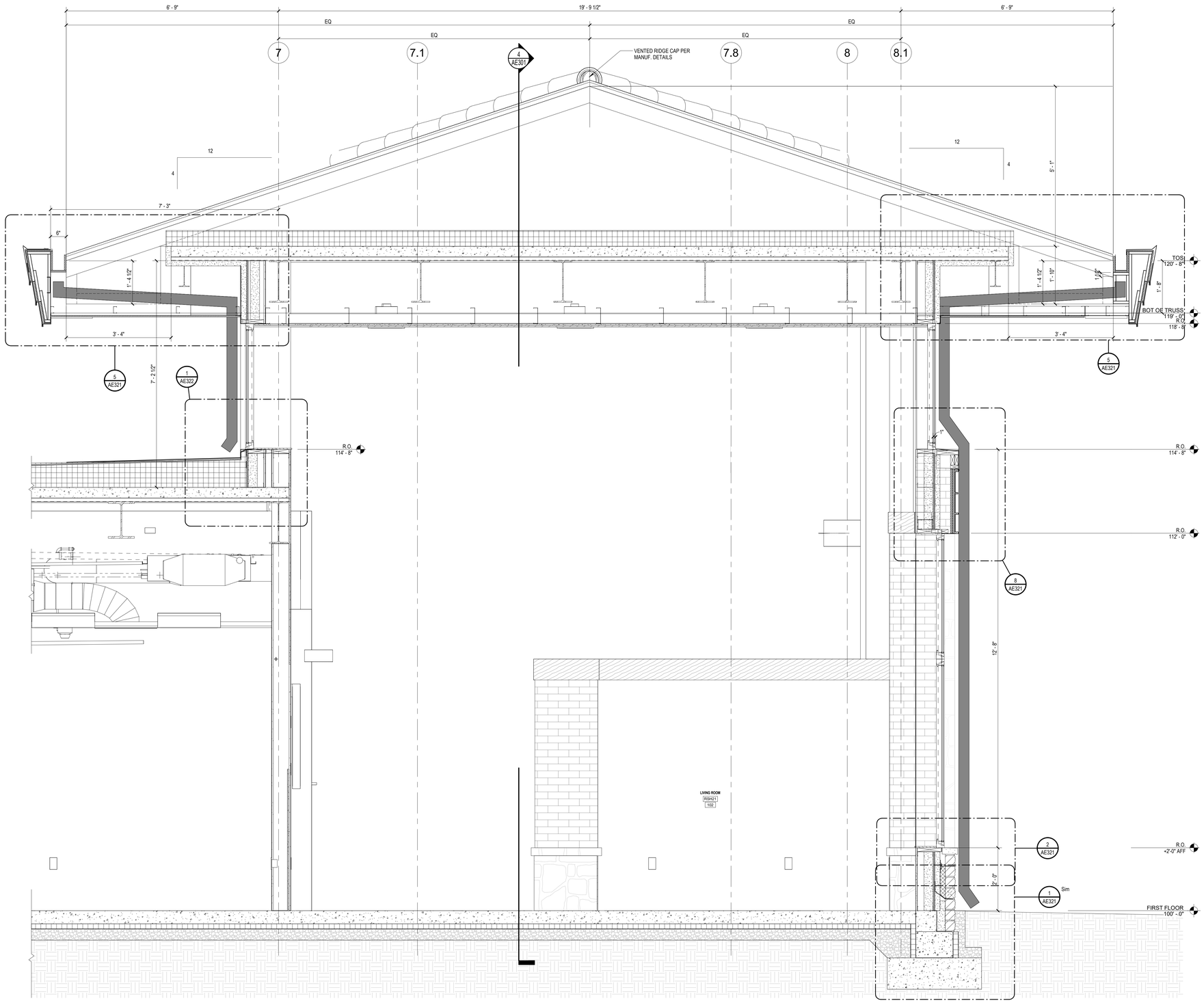

1 AE312 EXTERIOR WALL SECTION @ LIVING ROOM
SCALE: 3/4" = 1'-0"

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Drawing Title: WALL SECTIONS	Phase: BID DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
	Building Number:
Location: 180 MARTIN DR, CARROLLTON, GA 30117	Drawing Number: AE312
Issue Date: 12/16/2024	Checked: JF
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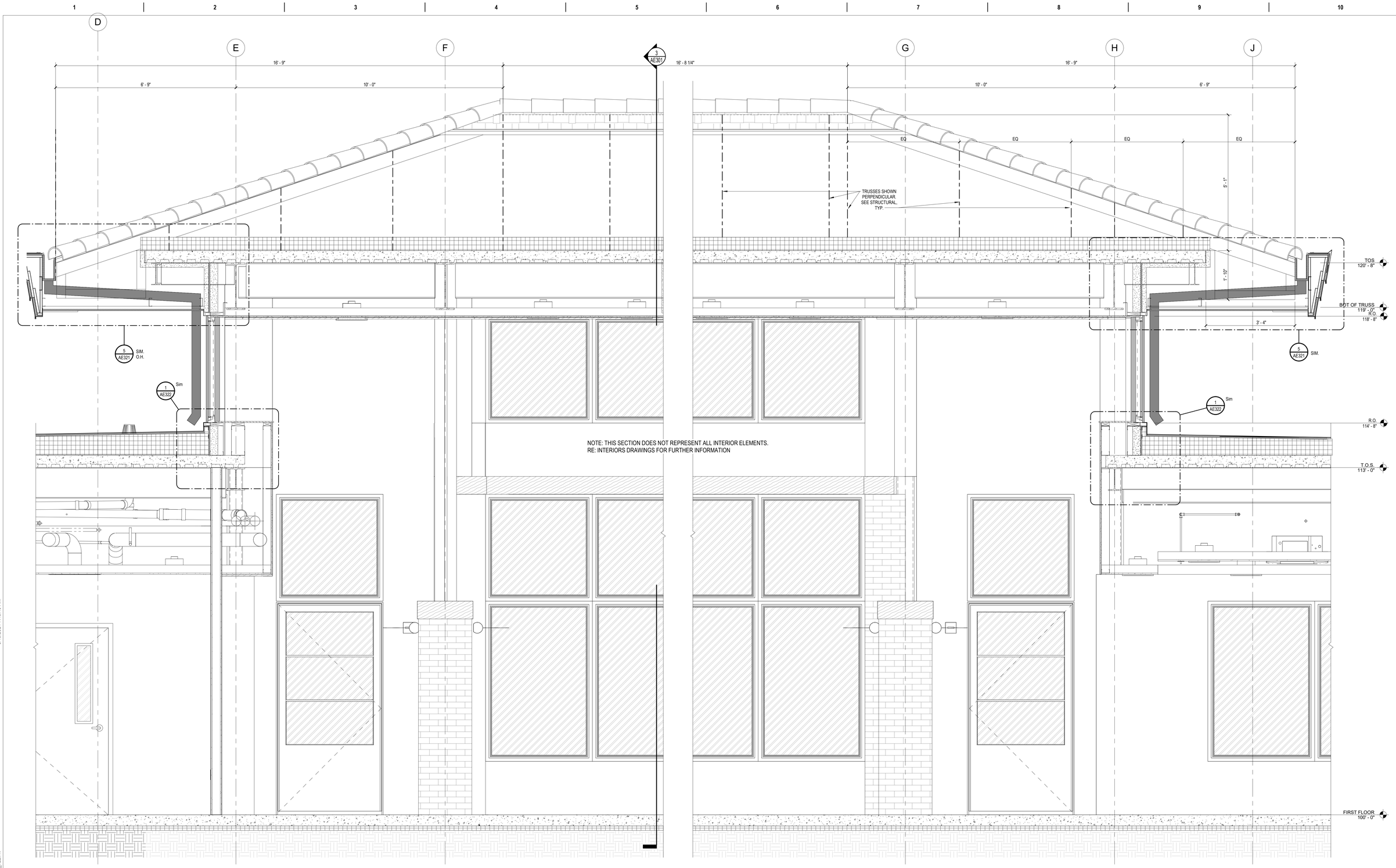

1 AE313 **LIVING ROOM SECTION 2**
SCALE: 3/4" = 1'-0"

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Drawing Title: WALL SECTIONS	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
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Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Drawing Number: AE313
		Issue Date: 12/16/2024 · Checked: JF · Drawn: TS	

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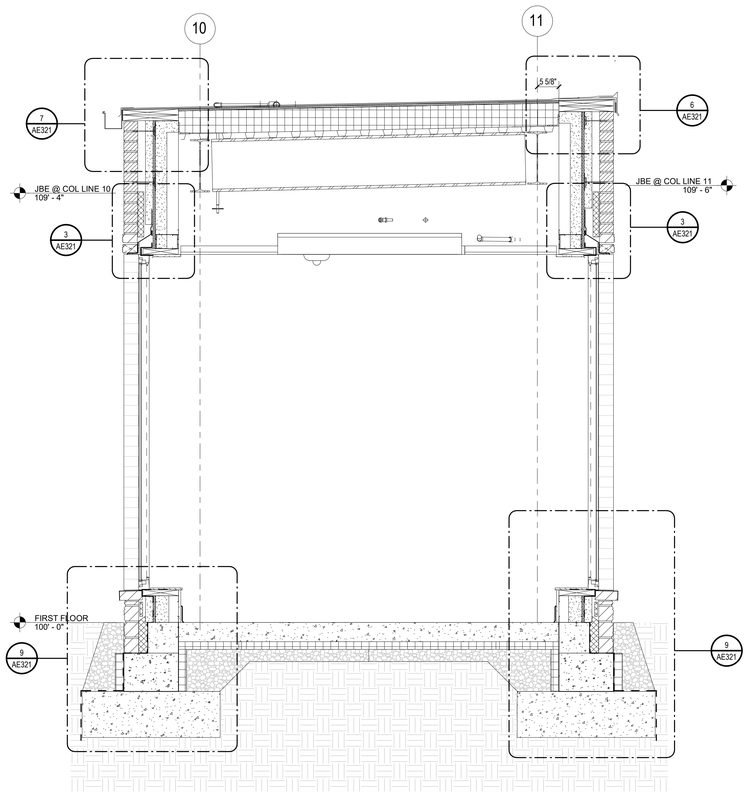
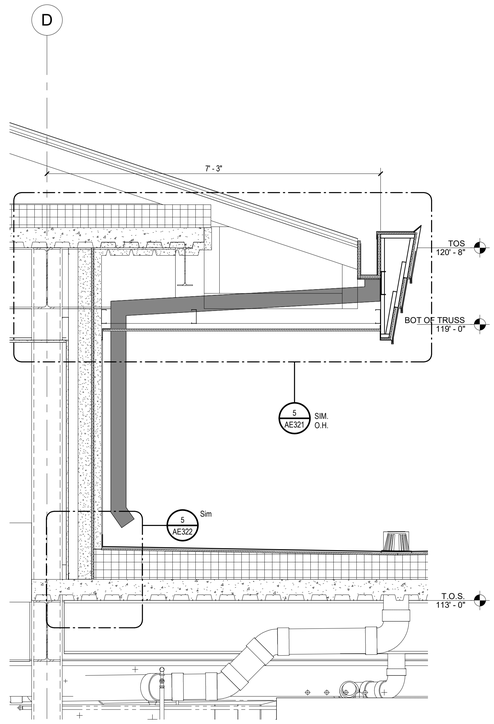
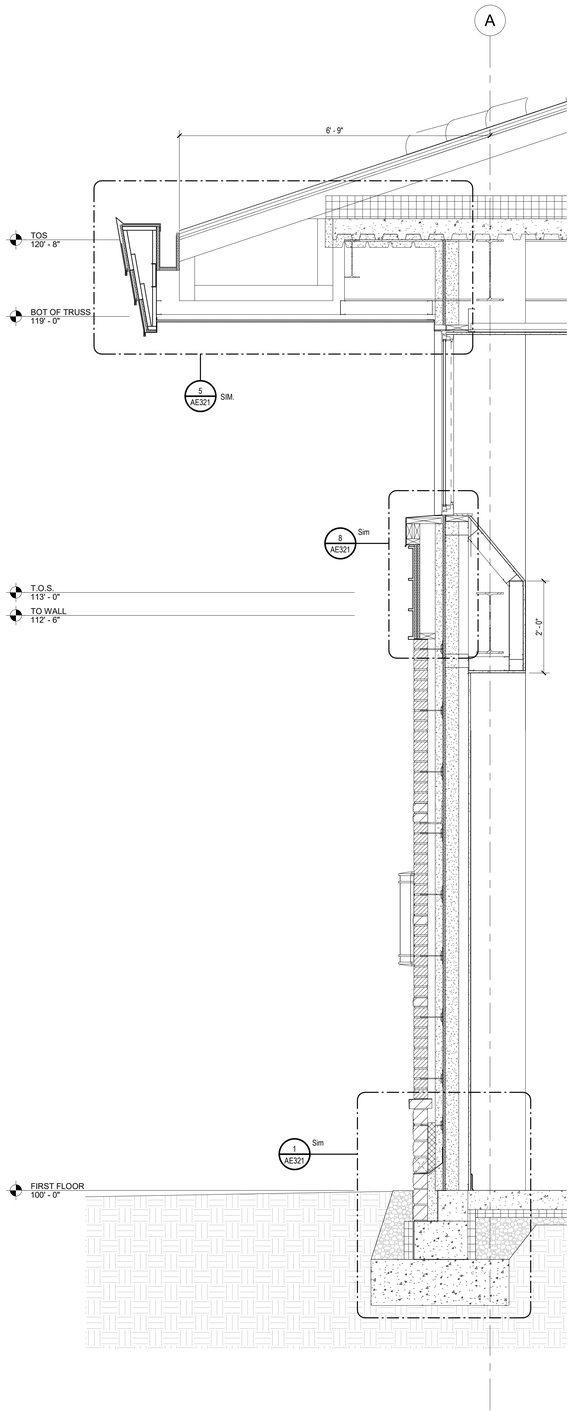


3 AE314 CORRIDOR SECTION 2 - Callout 1
SCALE: 3/4" = 1'-0"



2 AE314 CLERESTORY WALL SECTION
SCALE: 3/4" = 1'-0"



1 AE314 TYPICAL WALL SECTION W/ CLERESTORY
SCALE: 3/4" = 1'-0"

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Drawing Title: WALL SECTIONS	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
			Building Number:
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Drawing Number: AE314
		Issue Date: 12/16/2024 · Checked: JF · Drawn: TS	

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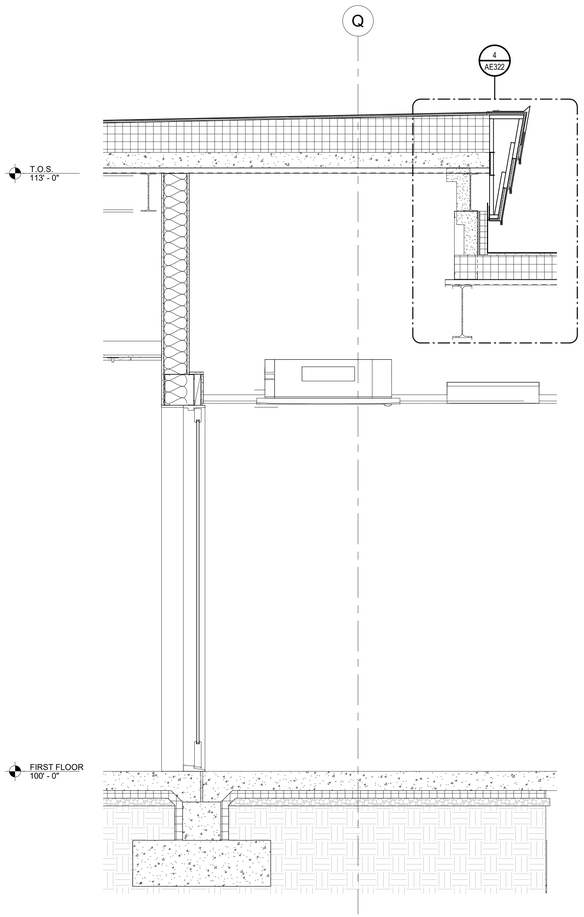
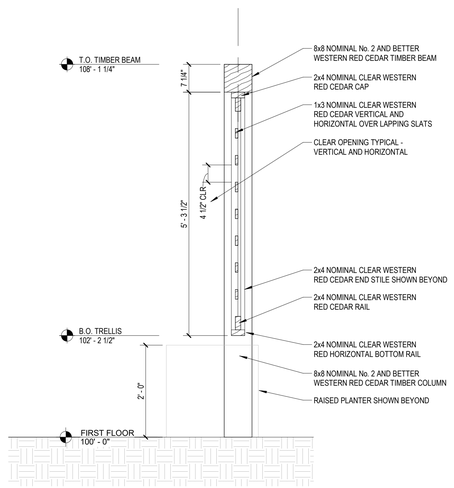


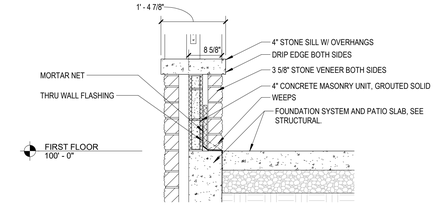
CORRIDOR WALL SECTION

4 / AE315 SCALE: 3/4" = 1'-0"



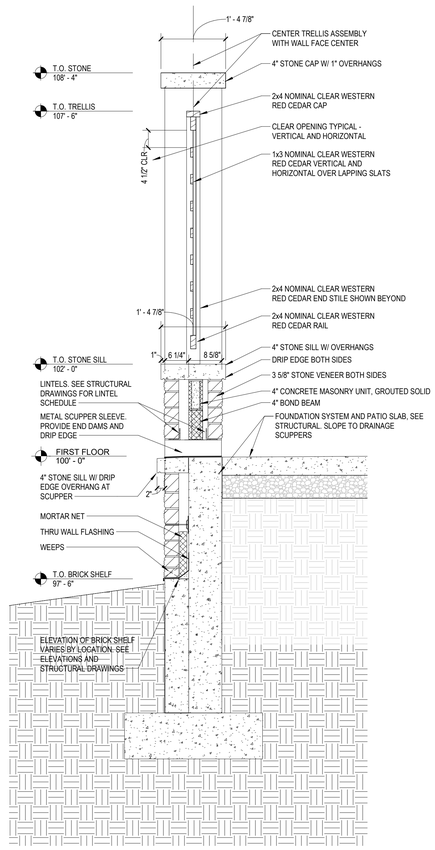
TRELLIS WALL SECTION

3 / AE315 SCALE: 3/4" = 1'-0"



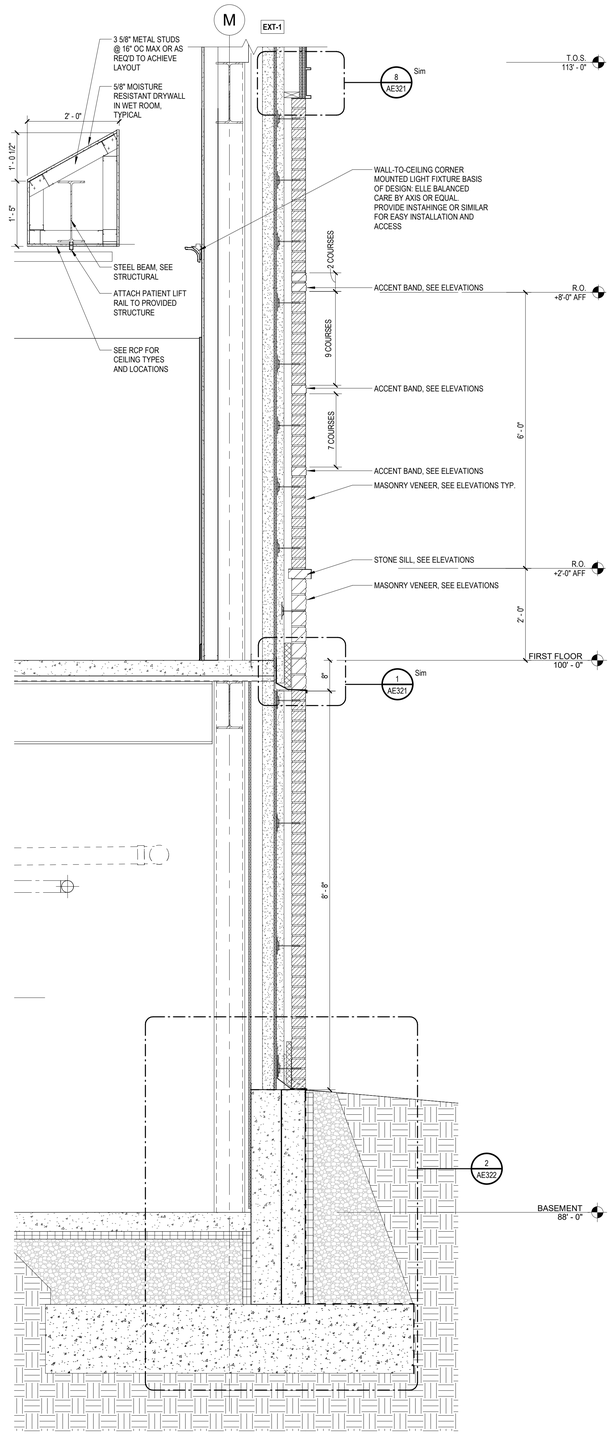
PATIO WALL SECTION

5 / AE315 SCALE: 3/4" = 1'-0"



PATIO WALL SECTION @ SCUPPER

2 / AE315 SCALE: 3/4" = 1'-0"



TYP EXTERIOR WALL SECTION @ BASEMENT

1 / AE315 SCALE: 3/4" = 1'-0"

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Drawing Title WALL SECTIONS	**Phase** BID DOCUMENTS	**Project Title** Construct TDVV CLC 12 Beds	**Project Number** 508-349
Approved:			**Building Number**
	FULLY SPRINKLERED	**Location** 180 MARTIN DR, CARROLLTON, GA 30117	**Drawing Number** AE315
		Issue Date 12/16/2024 · **Checked** JF · **Drawn** TS	

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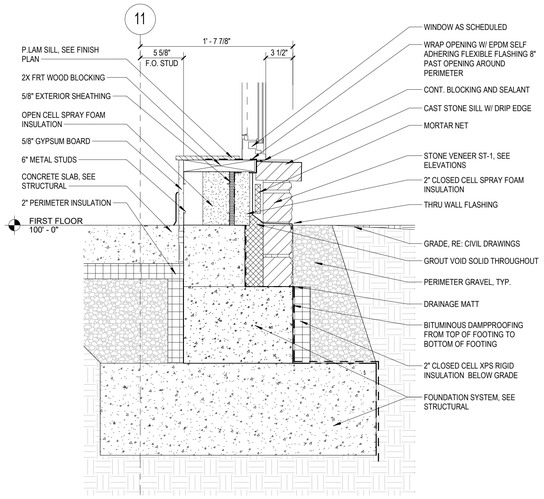
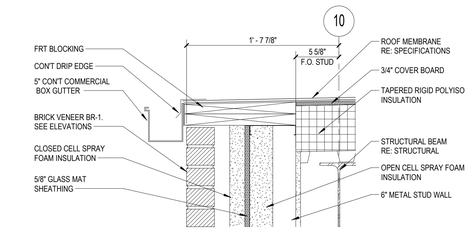


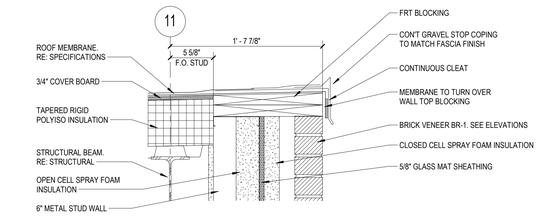
9 AE321 SCALE: 1 1/2" = 1'-0"

CONNECTOR WALL & FOUNDATION DETAIL



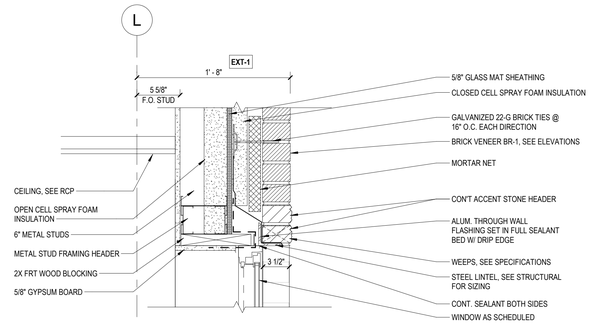
7 AE321 SCALE: 1 1/2" = 1'-0"

CONNECTOR WALL DETAIL B



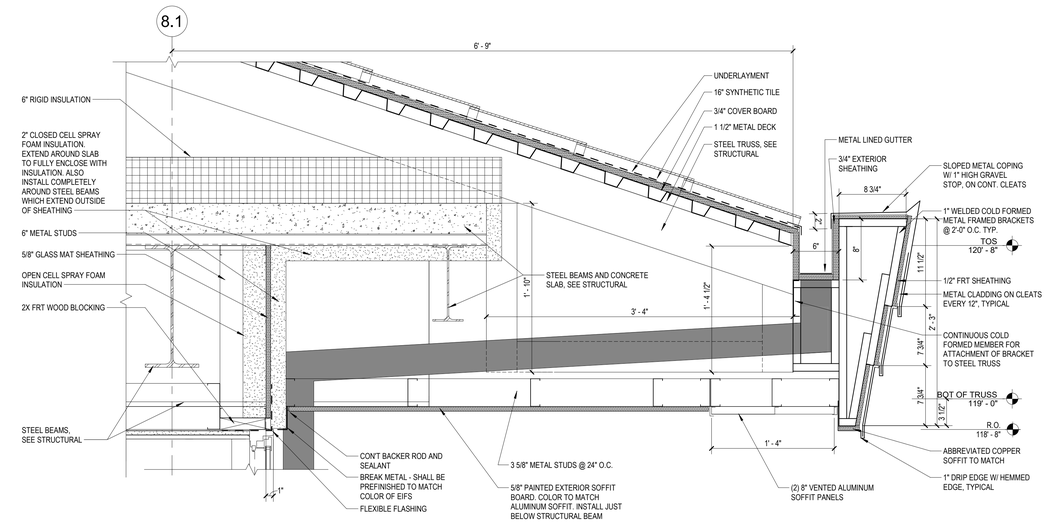
6 AE321 SCALE: 1 1/2" = 1'-0"

CONNECTOR WALL DETAIL A



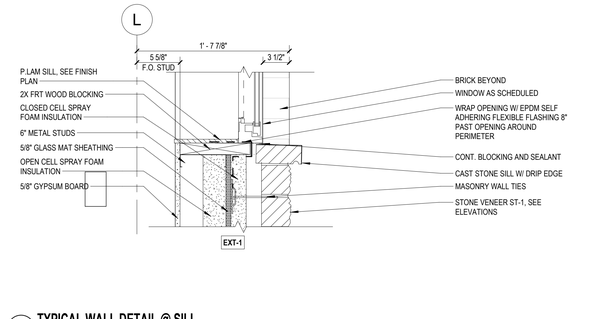
3 AE321 SCALE: 1 1/2" = 1'-0"

TYPICAL WALL DETAIL @ HEAD



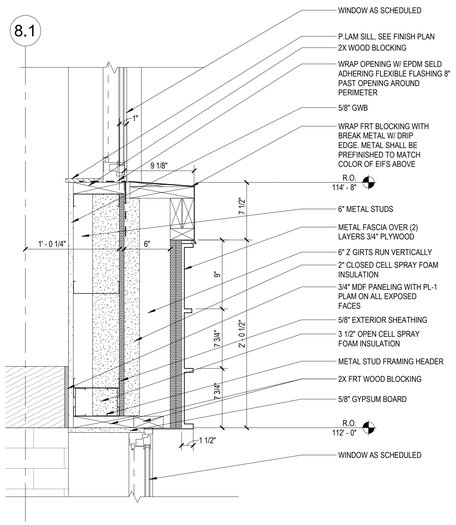
4 AE321 SCALE: 1 1/2" = 1'-0"

TYPICAL ROOF OVERHANG DETAIL



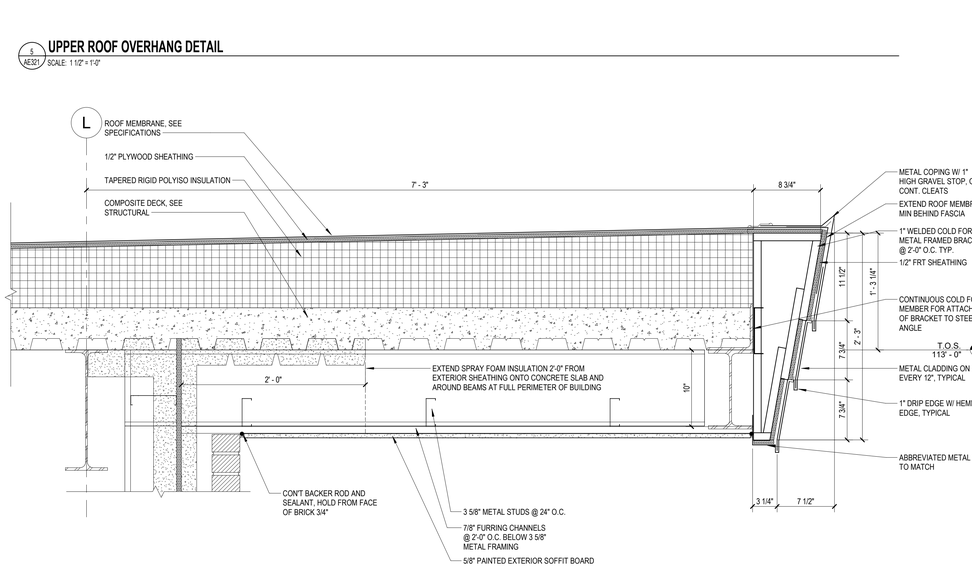
2 AE321 SCALE: 1 1/2" = 1'-0"

TYPICAL WALL DETAIL @ SILL



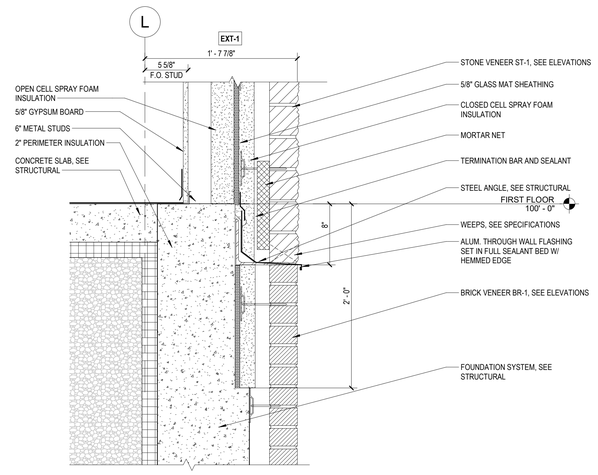
8 AE321 SCALE: 1 1/2" = 1'-0"

CLERESTORY FASCIA DETAIL



5 AE321 SCALE: 1 1/2" = 1'-0"

UPPER ROOF OVERHANG DETAIL



1 AE321 SCALE: 1 1/2" = 1'-0"

TYPICAL WALL DETAIL @ FOUNDATION

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Drawing Title: WALL SECTION DETAILS	Phase: BID DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
	Building Number:
Location: 180 MARTIN DR, CARROLLTON, GA 30117	Drawing Number: AE321
Issue Date: 12/16/2024	Checked: JF / Drawn: TS

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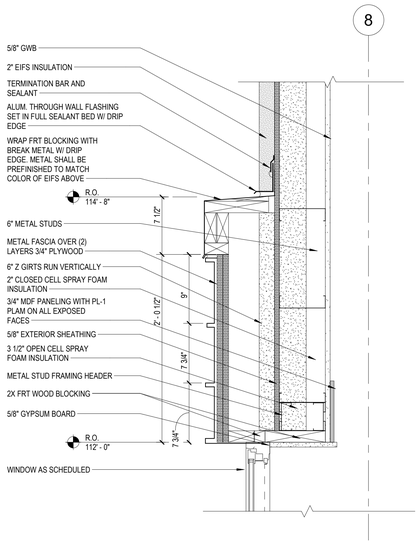
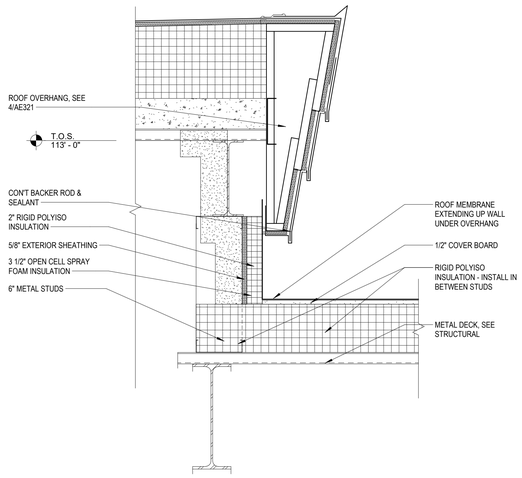


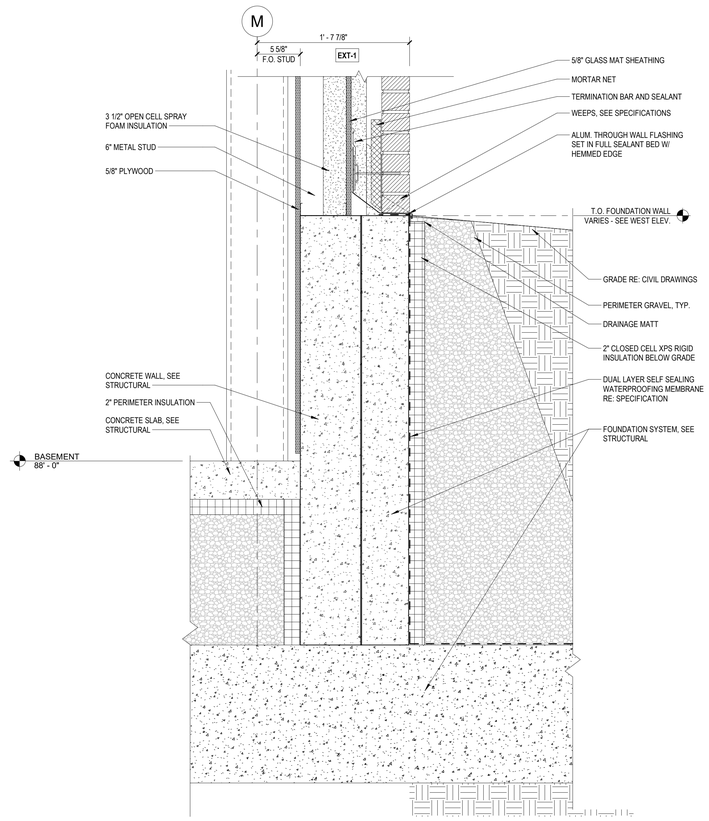
5 AE322 SCALE: 1 1/2" = 1'-0"

EIFS TO FASCIA DETAIL



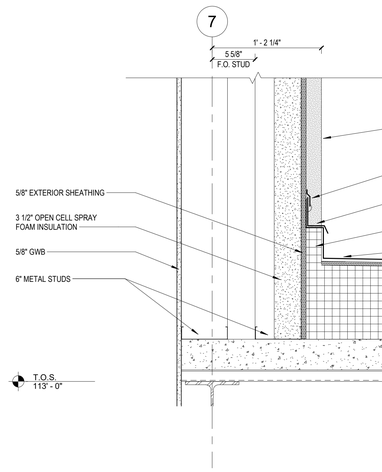
4 AE322 SCALE: 1 1/2" = 1'-0"

CORRIDOR ROOF OVERHANG DETAIL 2



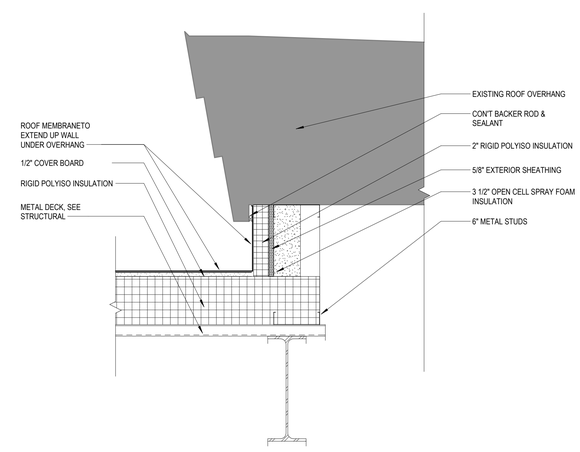
2 AE322 SCALE: 1 1/2" = 1'-0"

TYPICAL WALL DETAIL @ BASEMENT FOUNDATION



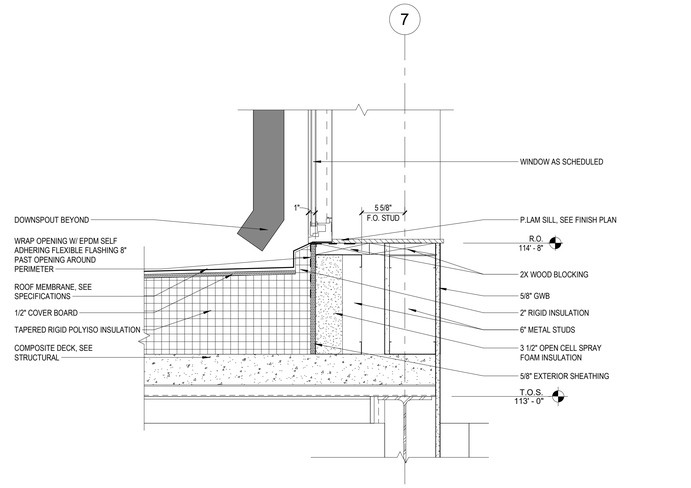
5 AE322 SCALE: 1 1/2" = 1'-0"

EIFS TO ROOF DETAIL



3 AE322 SCALE: 1 1/2" = 1'-0"

CORRIDOR ROOF OVERHANG DETAIL 1



1 AE322 SCALE: 1 1/2" = 1'-0"

SILL @ ROOF DETAIL

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON / CHARLOTTE ENGINEERS

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CHARLOTTE, NC 28212

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STATE OF GEORGIA · LUKE J. LEISING · REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	WALL SECTION DETAILS
Phase	BID DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	Construct TDVV CLC 12 Beds
Location	180 MARTIN DR, CARROLLTON, GA 30117
Issue Date	12/16/2024
Checked	JF
Drawn	TS
Project Number	508-349
Building Number	
Drawing Number	AE322

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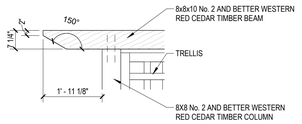
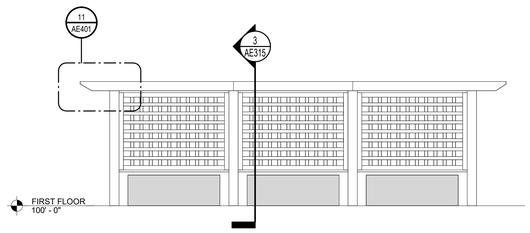
ENLARGED PATIO PLAN NOTES

#	
1.	OUTDOOR SITE BENCH. BOD: DUMOR SITE FURNISHINGS 522-60TMR, 6' HORIZONTAL WOOD SEAT - THERMALLY MODIFIED RED OAK LUMBER.
2.	RAISED PLANTER. BOD: POTS PLANTERS AND MORE, TOLGA MODERN PLATER BOXES 72" x16"x24" CHARCOAL GREY.
3.	EXTENTS OF PLANTING BED. RE: CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
4.	LIGHTED BOLLARDS. RE: ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
5.	STAMPED CONCRETE. BOD: GLOBMARBLE CONCRETE STAMPS SM 600 TRAVERTINE STONE, 32" x 24". CONTRACTOR TO FURNISH COLOR SAMPLES TO DETERMINE SELECTION.
6.	ALIGN BOLLARDS.
7.	CENTER PLANTER BETWEEN TRELLIS POSTS.
8.	CONTROL JOINT CENTERED ON TRELLIS OPENING.



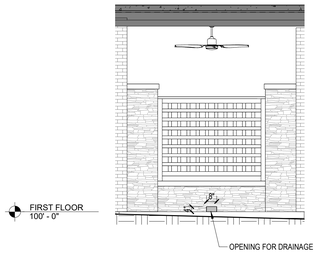
11 AE401 SCALE: 1/2" = 1'-0"

TRELLIS BEAM DETAIL



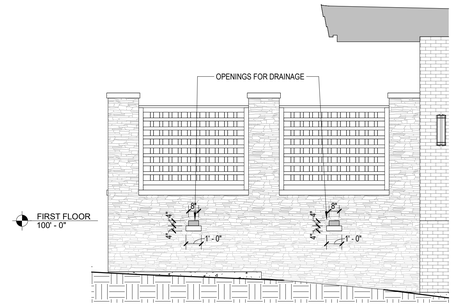
10 AE401 SCALE: 1/4" = 1'-0"

PLANTER AND TRELLIS ELEVATION



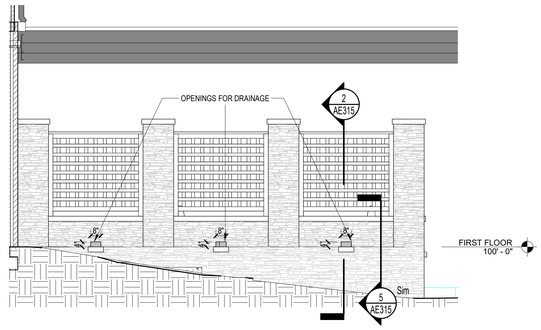
9 AE401 SCALE: 1/4" = 1'-0"

DEN PATIO ELEVATION



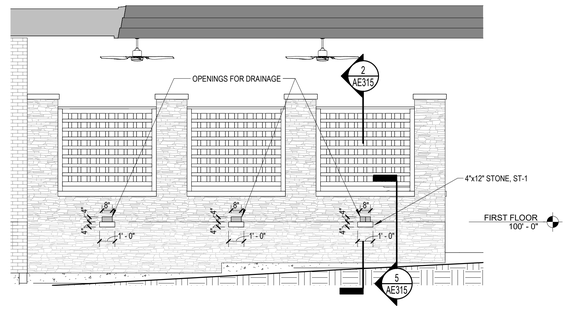
8 AE401 SCALE: 1/4" = 1'-0"

BACK PATIO ELEVATION WEST



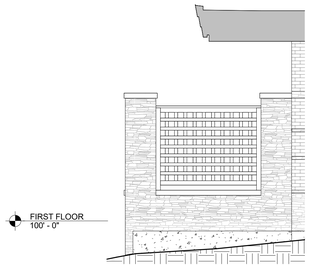
7 AE401 SCALE: 1/4" = 1'-0"

BACK PATIO ELEVATION NORTH



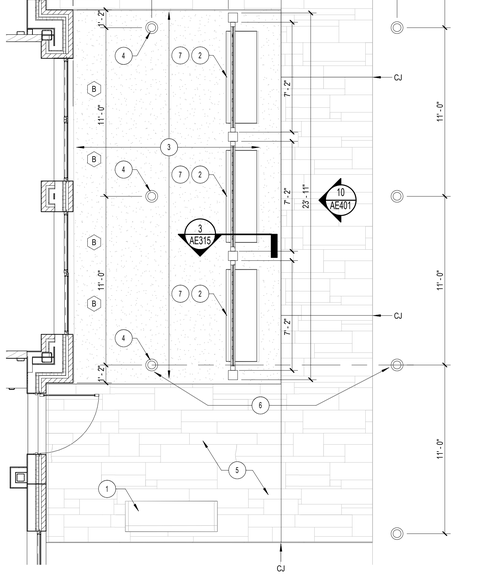
6 AE401 SCALE: 1/4" = 1'-0"

DINING PATIO ELEVATION SOUTH



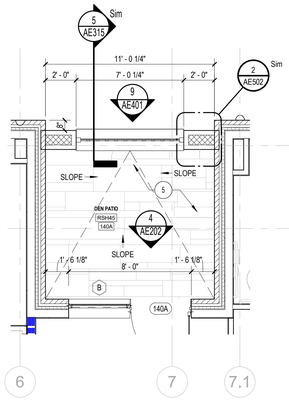
5 AE401 SCALE: 1/4" = 1'-0"

DINING PATIO ELEVATION EAST



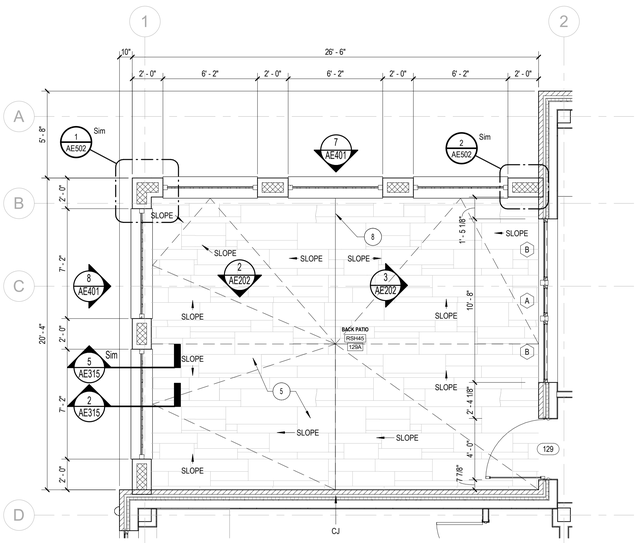
4 AE401 SCALE: 1/4" = 1'-0"

ENLARGED PLAN - LIVING ROOM PATIO



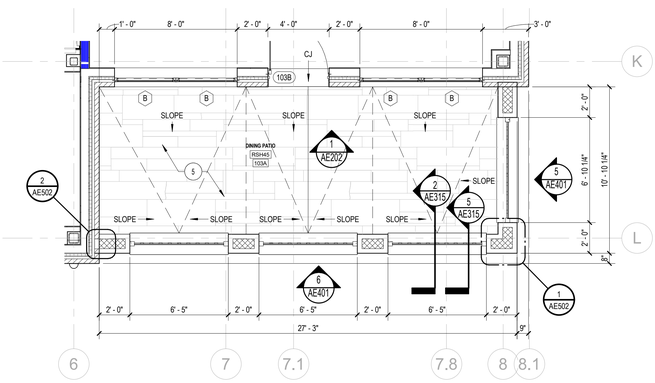
3 AE401 SCALE: 1/4" = 1'-0"

ENLARGED PLAN - PATIO 140A



2 AE401 SCALE: 1/4" = 1'-0"

ENLARGED PLAN - PATIO 129A



1 AE401 SCALE: 1/4" = 1'-0"

ENLARGED PLAN - PATIO 103A

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON / CHARLOTTE ENGINEERS

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FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
CHARLOTTE ENGINEERS
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CHARLOTTE, NC 28212

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STATE OF GEORGIA · LUKE J. LEISING · REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ENLARGED PATIO PLANS AND ELEVATIONS	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number:
		Issue Date: 12/16/2024 · Checked: JF · Drawn: TS	Drawing Number: AE401

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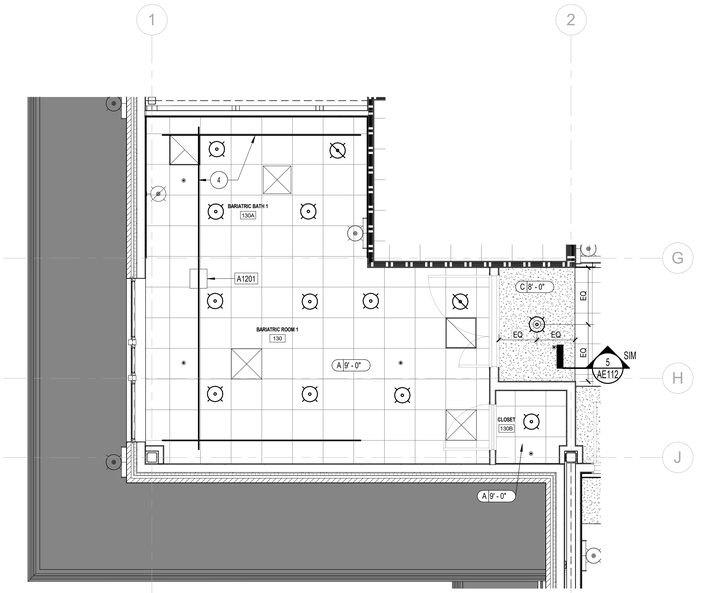
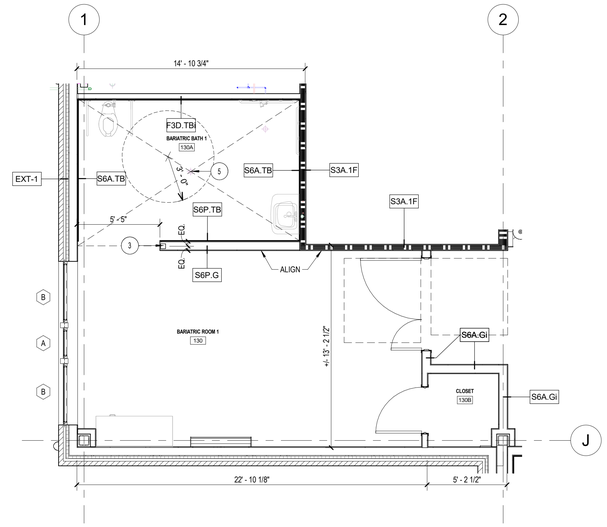
ENLARGED ARCHITECTURAL PLAN NOTES

1. COORDINATE ACTUAL DIMENSIONS WITH SELECTED SHOWER PAN REQUIREMENTS.
2. PROVIDE TILE BACKER BOARD ONLY BEHIND WALL TILE. PROVIDE GWB ABOVE TILE BACKER BOARD IN TOILET/SHOWER ROOMS.
3. STEEL COLUMN FOR PARTIAL WALL BRACING, SEE STRUCTURAL.
4. LINES INDICATE RAILS FOR CEILING MOUNTED PATIENT LIFT. SEE SPECIFICATIONS, STRUCTURAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
5. FLOOR DRAIN. SEE PLUMBING DRAWINGS. SLOPE FLOOR TO DRAIN, SEE STRUCTURAL DRAWINGS.



4 AE402 **ENLARGED TYPICAL BARIATRIC BEDROOM AND BATHROOM CEILING PLAN**
SCALE: 1/4" = 1'-0"



3 AE402 **ENLARGED TYPICAL BARIATRIC BEDROOM AND BATHROOM ARCHITECTURAL PLAN**
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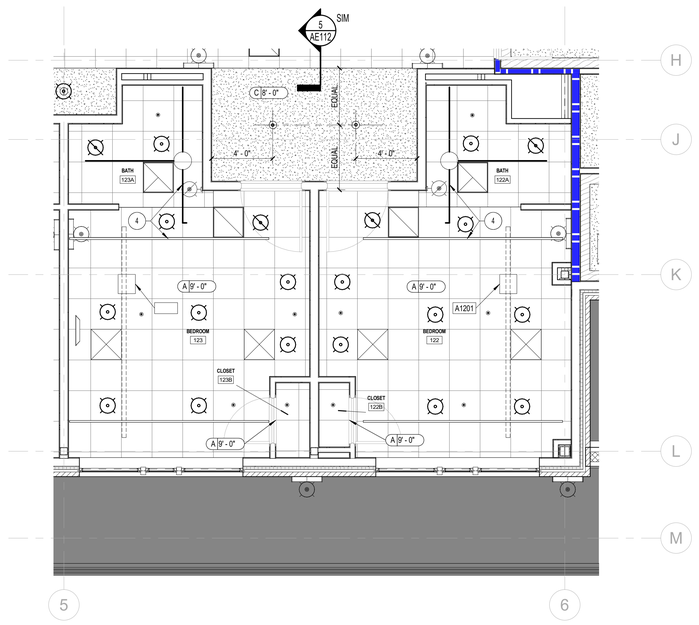

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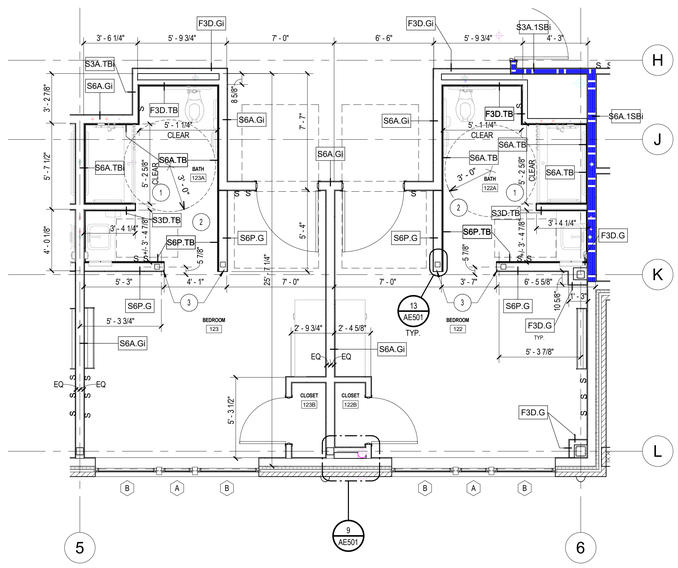

1 AE402 **ENLARGED TYPICAL BEDROOM AND BATHROOM ARCHITECTURAL PLAN**
SCALE: 1/4" = 1'-0"

Revisions:	Date:

CONSULTANT

Consultant:
CHARLOTTE ENGINEERS
5838 MONROE ROAD
CHARLOTTE, NC 28212

704-531-3000

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STATE OF GEORGIA
LUKE J. LEISING
REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ENLARGED ARCHITECTURAL PLANS	Phase: BID DOCUMENTS
Approved:	FULLY SPRINKLERED
Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number:
Issue Date: 12/16/2024 / Checked: JF / Drawn: TS	Drawing Number: AE402

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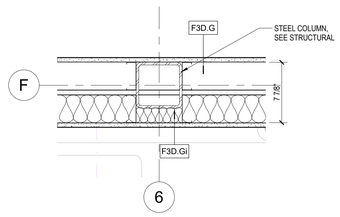

12 AE501 **ENLARGED PLAN DETAIL**
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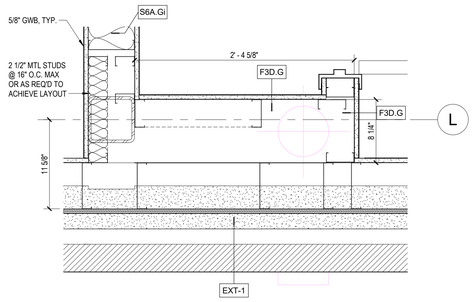

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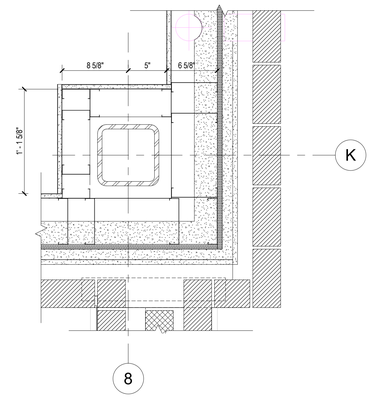

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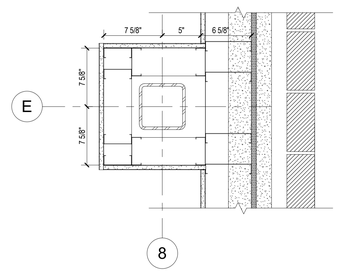

3 AE501 **TYPICAL COLUMN DETAIL @ EXTERIOR WALL**
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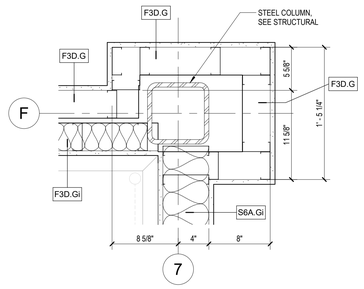

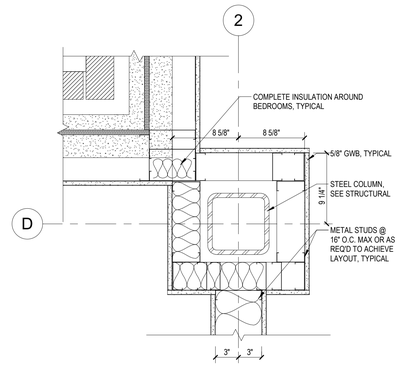

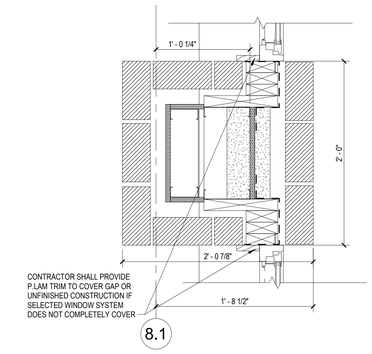

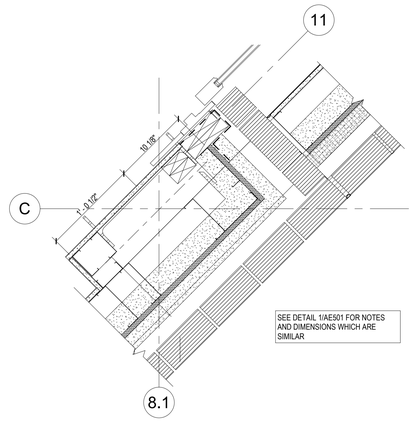

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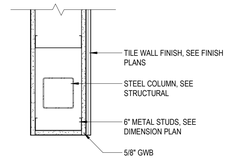

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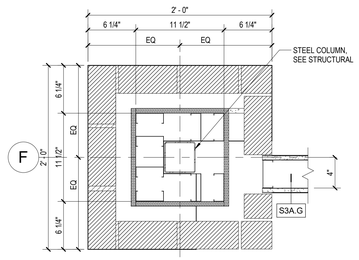

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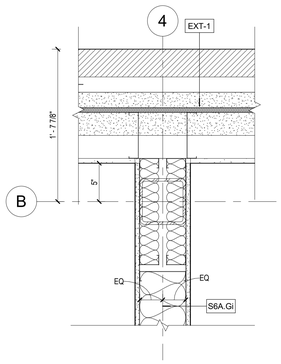

7 AE501 **ENLARGED PLAN DETAIL**
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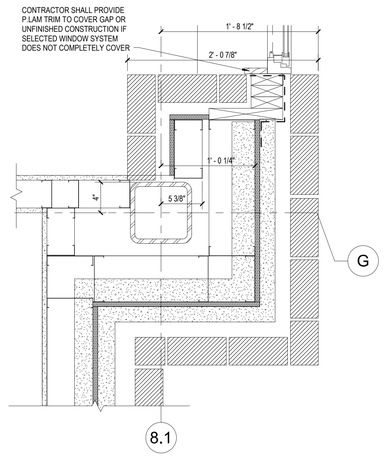

5 AE501 **ENLARGED PLAN DETAIL**
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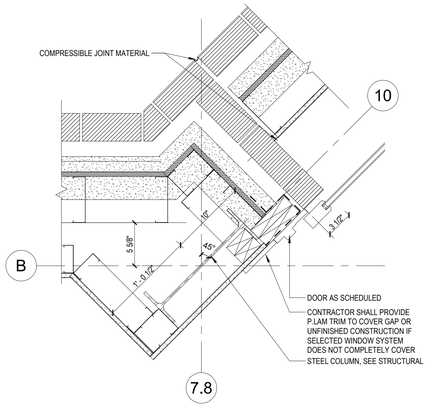

2 AE501 **ENLARGED PLAN DETAIL - CORRIDOR DOOR WEST**
SCALE: 1 1/2" = 1'-0"

4 AE501 **ENLARGED PLAN DETAIL**
SCALE: 1 1/2" = 1'-0"

1 AE501 **ENLARGED PLAN DETAIL - CORRIDOR DOOR EAST**
SCALE: 1 1/2" = 1'-0"

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON | CHARLOTTE ENGINEERS

CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
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CHARLOTTE ENGINEERS
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CHARLOTTE, NC 28212

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title ENLARGED PLAN DETAILS	**Phase** BID DOCUMENTS	**Project Title** Construct TDVV CLC 12 Beds	**Project Number** 508-349
Approved:			**Building Number**
	FULLY SPRINKLERED	**Location** 180 MARTIN DR, CARROLLTON, GA 30117	**Drawing Number** AE501
		Issue Date 12/16/2024 · **Checked** JF · **Drawn** TS	

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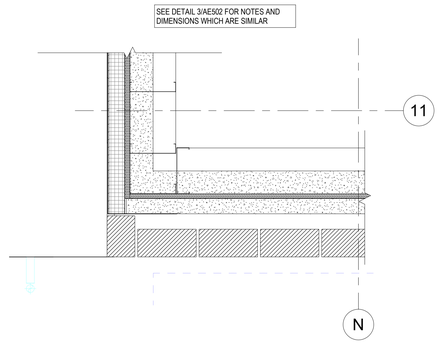

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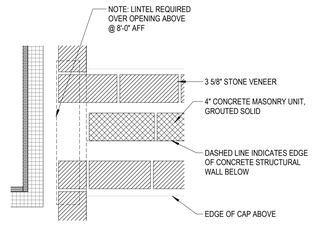
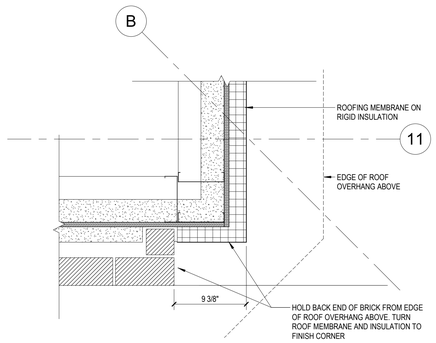
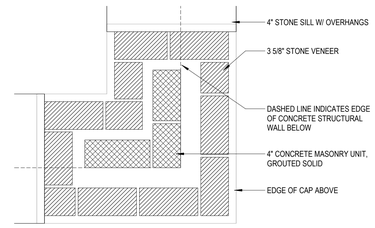


2 AE502 **TYP. PATIO COLUMN TO BUILDING CONNECTION PLAN DETAIL**
SCALE: 1 1/2" = 1'-0"



NOTE: DETAIL SHOWN ROTATED FOR CLARITY

3 AE502 **ENLARGED ROOF PLAN DETAIL**
SCALE: 1 1/2" = 1'-0"



1 AE502 **TYP. PATIO COLUMN PLAN DETAIL**
SCALE: 1 1/2" = 1'-0"

Revisions:	Date:

CONSULTANT

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STATE OF GEORGIA
LUKE J. LEISING
REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ENLARGED PLAN DETAILS
Approved:	
Phase	BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	Construct TDVV CLC 12 Beds
Location	180 MARTIN DR, CARROLLTON, GA 30117
Issue Date	12/16/2024
Checked	JF
Drawn	TS
Project Number	508-349
Building Number	
Drawing Number	AE502

8/16/2024 7:50:18 AM

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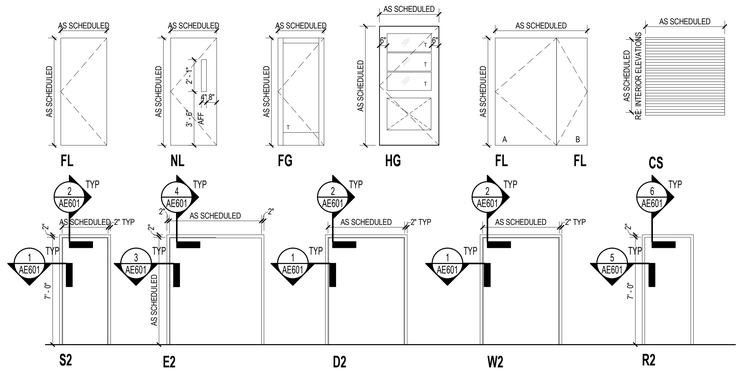
VA FORM 08 - 6231

DOOR AND FRAME TYPE LEGEND



DOOR TYPE ABBREVIATIONS

FL	FLUSH
VL	VISION LIGHT
NL	NARROW LIGHT
HG	HALF GLASS
FG	FULL GLASS
LL	LOUVER
OH	OVERHEAD
CS	COILING SHUTTER

DOOR MATERIAL ABBREVIATIONS

AL	ALUMINUM
HM	HOLLOW METAL
WD	WOOD

FRAME TYPE ABBREVIATIONS

S2	SINGLE / 2" HEAD
R2	SINGLE, RESCUE / 2" HEAD
ST	SINGLE w/TRANSOM / 2" HEAD
SE	SINGLE ENTRANCE / HEAD SIZE VARY PER MFR.
D2	DOUBLE / 2" HEAD
E2	DOUBLE EGRESS / 2" HEAD
DE	DOUBLE ENTRANCE / HEAD SIZE VARY PER MFR.
W2	DOUBLE w/DIFFERENT WIDTH / 2" HEAD
DT	DOUBLE w/TRANSOM / 2" HEAD

FRAME MATERIAL ABBREVIATIONS

AL	ALUMINUM
HM	HOLLOW METAL
WD	WOOD

DOOR FINISH ABBREVIATIONS

FF	FACTORY FINISHED

DOOR SCHEDULE

DOOR NUMBER	ROOM NUMBER	ROOM NAME	DIMENSIONS WIDTH	DIMENSIONS HEIGHT	DIMENSIONS THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	FIRE RATING	GLAZING TYPE	HW SET	COMMENTS
122	122	BEDROOM	4' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1B	
123	123	BEDROOM	4' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1B	
124	124	BEDROOM	4' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1B	
125	125	BEDROOM	4' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1B	
126	126	BEDROOM	4' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1B	
135	135	BEDROOM	4' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1B	
136	136	BEDROOM	4' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1B	
137	137	BEDROOM	4' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1B	
138	138	BEDROOM	4' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1B	
139	139	BEDROOM	4' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1B	
106	106	SOILED UTILITY	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	45	-	HW-1C	
110	110	HSKPG	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1E	
116	116	CLEAN UTILITY	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1E	
140	140	DEN	4' - 0"	7' - 0"	1 3/4"	NL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1E	
122B	122B	CLOSET	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1F	
123B	123B	CLOSET	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1F	
124B	124B	CLOSET	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1F	
125B	125B	CLOSET	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1F	
126B	126B	CLOSET	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1F	
135B	135B	CLOSET	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1F	
136B	136B	CLOSET	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1F	
137B	137B	CLOSET	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1F	
138B	138B	CLOSET	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1F	
139B	139B	CLOSET	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1F	
112	112	EQUIP STORAGE	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	45	-	HW-1G	
115	115	CLEAN LINEN	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	45	-	HW-1G	
130B	130B	CLOSET	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1H	6
131B	131B	CLOSET	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-1H	6
141	141	TOILET	4' - 0"	7' - 0"	1 3/4"	FL	HM	STAIN	R2	HM	PAINT	5/AE601	6/AE601	-	0	-	HW-2B	7
119	119	WORK ROOM	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-3E	
120	120	OFFICE	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-3E	
109	109	STAFF TOILET	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-4U	7
117	117	ELECTRICAL	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-5B	
132C	132C	GAS CYLINDER STORAGE	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-5B	
133	133	CLOSET	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-5C	
118	118	ELECTRICAL	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	90	-	HW-5D	
128	128	SPECIAL STORAGE	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	45	-	HW-5D	
101B	101	CORRIDOR	7' - 0"	7' - 0"	1 3/4"	NL	WD	STAIN	E2	HM	PAINT	4/AE601	3/AE601	-	45	FR#1	HW-8E	2
121	121	CORRIDOR	7' - 0"	7' - 0"	1 3/4"	NL	WD	STAIN	E2	HM	PAINT	4/AE601	3/AE601	-	45	FR#1	HW-8E	2
127	127	BATHING	6' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	W2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-10M	
130	130	BARIATRIC ROOM 1	6' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	W2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-10M	
131	131	BARIATRIC ROOM 2	6' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	W2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-10M	
B100	B100	MECHANICAL ROOM	8' - 0"	7' - 0"	1 3/4"	FL	HM	STAIN	D4	HM	PAINT	9/AE601	11/AE601	9/AE601	0	-	HW-11	
100A	100	CONNECTOR	6' - 11"	7' - 11 1/2"	1 3/4"	HG	AL	FF	BY MANUF.	AL	FF	10/AE601	12/AE601	10/AE601	0	TG	HW-12H	2
132B	132	VESTIBULE	6' - 11"	7' - 11 1/2"	1 3/4"	HG	AL	FF	BY MANUF.	AL	FF	-	-	-	0	TG	HW-12H	2
103B	103	DINING	4' - 0"	7' - 11 1/2"	1 3/4"	HG	AL	FF	BY MANUF.	AL	FF	10/AE601	12/AE601	10/AE601	0	TG	HW-E1	
129	129	CORRIDOR	4' - 0"	7' - 11 1/2"	1 3/4"	HG	AL	FF	BY MANUF.	AL	FF	10/AE601	12/AE601	10/AE601	0	TG	HW-E1	
140A	140	DEN	4' - 0"	7' - 11 1/2"	1 3/4"	HG	AL	FF	BY MANUF.	AL	FF	10/AE601	12/AE601	10/AE601	0	TG	HW-E1	
G100	G100	GENERATOR ENCLOSURE	8' - 0"	7' - 0"	1 3/4"	FL	HM	PAINT	D4	HM	PAINT	-	-	-	0	-	HW-E2	
100B	100	CONNECTOR	4' - 0"	7' - 11 1/2"	1 3/4"	HG	AL	FF	BY MANUF.	AL	FF	10/AE601	12/AE601	10/AE601	0	TG	HW-E4	
100C	100	CONNECTOR	4' - 0"	7' - 11 1/2"	1 3/4"	HG	AL	FF	BY MANUF.	AL	FF	10/AE601	12/AE601	10/AE601	0	TG	HW-E4	
101A	101	CORRIDOR	4' - 0"	7' - 11 1/2"	1 3/4"	HG	AL	FF	BY MANUF.	AL	FF	10/AE601	12/AE601	10/AE601	0	TG	HW-E4	
103A	103	DINING	4' - 0"	7' - 11 1/2"	1 3/4"	HG	AL	FF	BY MANUF.	AL	FF	10/AE601	12/AE601	10/AE601	0	TG	HW-E4	
132A	132	VESTIBULE	6' - 11"	7' - 11 1/2"	1 3/4"	HG	AL	FF	BY MANUF.	AL	FF	10/AE601	12/AE601	10/AE601	0	TG	HW-E9	1,2
104	104	KITCHEN	6' - 0"	4' - 9"	1/2"	CS	SS	CLEAR	---	STEEL	PAINT	8/AE601	7/AE601		0		HW-G5	8,9
111A	111	LAUNDRY	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	45	-	HW-SH-3D	1
111B	111	LAUNDRY	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	45	-	HW-SH-3D	1
113	113	MED	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-SH-3E	1
107A	107	CORRIDOR	3' - 6"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601		45		HW-SH-3F	1
107B	107	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601		45		HW-SH-3F	1
108	108	OIT	3' - 0"	8' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-SH-3F	1
114A	114	STAFF	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-SH-3F	1
114B	114	STAFF	3' - 0"	7' - 0"	1 3/4"	FL	WD	STAIN	S2	HM	PAINT	2/AE601	1/AE601	-	0	-	HW-SH-3F	1

DOOR AND FRAME GENERAL NOTES

A. CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL HARDWARE REQUIREMENTS BETWEEN HARDWARE SUPPLIES, ACCESS CONTROL VENDOR, AND ANY OTHER TRADES THAT ARE INVOLVED. REQUIRED POWER SUPPLIES AND AUXILIARY COMPONENTS THAT IS REQUIRED TO MAKE A HARDWARE SET WORK BETWEEN ACCESS CONTROL AND HARDWARE SHALL BE PROVIDED.

B. ALL HOLLOW METAL DOORS AND FRAMES SHALL BE FACTORY PRIMED AND RECEIVE PAINT FINISH ON SITE. REFER TO FINISH SCHEDULE FOR HOLLOW METAL PAINT COLOR.

C. PROVIDE SEALANT AROUND PERIMETER OF DOOR/ WINDOW FRAME ADJACENT TO WALL AND FLOOR CONSTRUCTION, BOTH SIDES.

D. LOCATE HINGE SIDE OF DOOR 6" OFF OF ADJACENT WALL UNLESS OTHERWISE INDICATED ON FLOOR PLAN.

E. MAINTAIN ADA CLEARANCE AROUND DOORS AND REFER ANY DISCREPANCIES TO COR AND ARCHITECT FOR CLARIFICATION.

F. RATED FRAMES, DOORS AND GLAZING SHALL BE UL LABELED IN A VISIBLE LOCATION.

G. REFER TO DOOR/ WINDOW AND FRAME LEGEND FOR REFERENCE TO TYPICAL HEAD, JAMB AND SILL DETAILS.

H. ALL HOLLOW METAL JAMBS TO BE PREPARED FOR ACCESS CONTROL AND SECURITY HARDWARE. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION.

I. REFER TO SPECIFICATIONS AND ENGINEERING DRAWINGS FOR ADDITIONAL HARDWARE INFORMATION.

J. COORDINATE POWER AND DATA REQUIREMENTS AT DESIGNATED DOOR OPENINGS WITH ENGINEERING DRAWINGS.

K. DOORS AND WINDOWS SHALL BE BY SINGLE MANUFACTURER AND SHALL MATCH EXISTING FINISH AS CLOSELY AS POSSIBLE. PRODUCT REP TO VISIT SITE TO MAKE PROPOSED TYPE AND COLOR SELECTION.

L. INSTALLATION DETAILS ARE SCHEMATIC. CONTRACTOR SHALL PROVIDE ALL STRAPPING, BLOCKING, ETC AS REQUIRED FOR SECURE ATTACHMENT OF FRAME TO WALL AND SHALL INSTALL PER MANUFACTURERS RECOMMENDATIONS.

DOOR SCHEDULE COMMENTS

1. PROVIDE CARD READER AND ASSOCIATED ACCESSORIES. PROVIDE ELECTRIC STRIKE AND OR ELECTRIFIED EXIT DEVICES AS REQUIRED. REFER TO ENGINEERING DRAWINGS AND ACCESS CONTROL FOR ADDITIONAL INFORMATION.
2. PROVIDE AUTOMATIC DOOR OPENER AND ASSOCIATED ACCESSORIES. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION.
3. PROVIDE ALARMED, DELAYED EGRESS ACCESS CONTROL. REFER TO ENGINEERING DRAWINGS.
4. PROVIDE HOLD OPENS.
5. NOT USED.
6. OMIT OH STOP AND USE WALL STOP.
7. USE MOP PLATE ON ROOM SIDE OF DOOR FOR INSWING DOORS AND KICK PLATE FOR OUTSWING DOORS. USE KICK PLATE ON ROOM SIDE OF DOUBLE DOORS.
8. COILING SHUTTER SHALL RESIST THE PASSAGE OF SMOKE.
9. COILING SHUTTER SHALL BE LOCKABLE.

GLAZING LEGEND

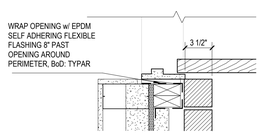
FR#1	FIRE RATED GLAZING
TG	TEMPERED INSULATING GLASS
IG	INSULATING GLASS
MG	MONOLITHIC GLASS

GLAZING GENERAL NOTES

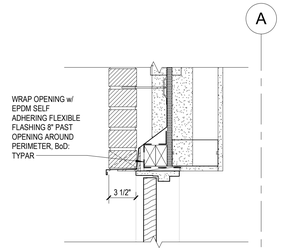
A. TEMPER ALL GLAZING WITHIN 60" OF FINISH FLOOR AND WITHIN 23" HORIZONTALLY OF DOOR.

B. TEMPER ALL GLAZING WITHIN DOORS.

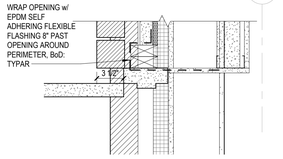
C. TEMPER PANE IF THE AREA IS GREATER THAN 9 SF.



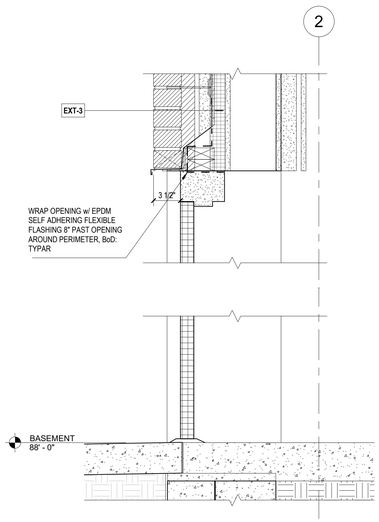
12 / AE601 **EXTERIOR WOOD DOOR JAMB DETAIL**
SCALE: 1 1/2" = 1'-0"



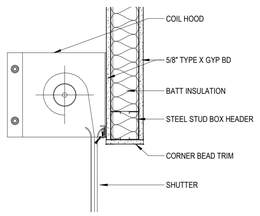
10 / AE601 **EXTERIOR WOOD DOOR SILL AND HEAD DETAIL**
SCALE: 1 1/2" = 1'-0"



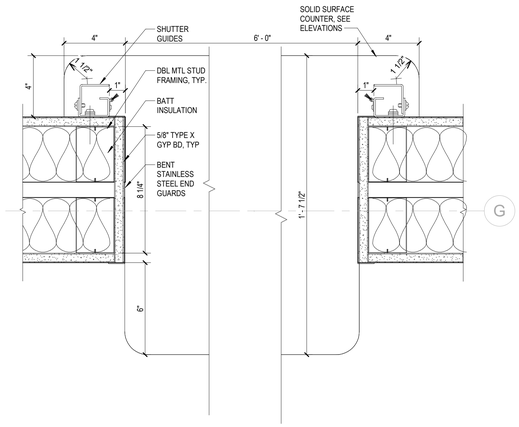
11 / AE601 **EXTERIOR HM DOOR JAMB DETAIL**
SCALE: 1 1/2" = 1'-0"



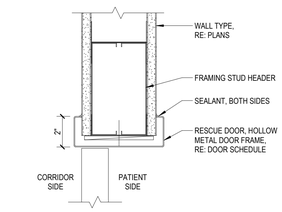
9 / AE601 **EXTERIOR HM DOOR SILL AND HEAD DETAIL**
SCALE: 1 1/2" = 1'-0"



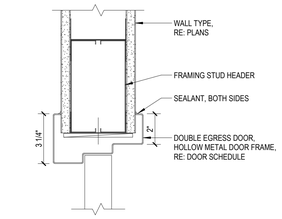
8 / AE601 **COILING SHUTTER HEAD DETAIL**
SCALE: 1 1/2" = 1'-0"



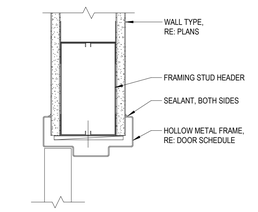
7 / AE601 **COILING SHUTTER JAMB DETAIL**
SCALE: 3" = 1'-0"



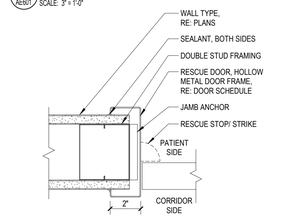
6 / AE601 **DOOR HEAD DETAIL, ANTI-BARRICADE**
SCALE: 3" = 1'-0"



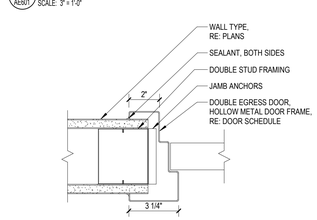
4 / AE601 **DOOR HEAD DETAIL, HM DOUBLE EGRESS**
SCALE: 3" = 1'-0"



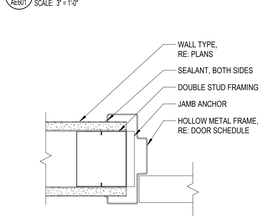
2 / AE601 **DOOR HEAD DETAIL, HM**
SCALE: 3" = 1'-0"



5 / AE601 **DOOR HAMB DETAIL, ANTI-BARRICADE**
SCALE: 3" = 1'-0"



3 / AE601 **DOOR JAMB DETAIL, HM DOUBLE EGRESS**
SCALE: 3" = 1'-0"



1 / AE601 **DOOR JAMB DETAIL, HM**
SCALE: 3" = 1'-0"

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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STATE OF GEORGIA — LUKE J. LEISING — REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: DOOR SCHEDULE	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number:
		Issue Date: 12/16/2024 / Checked: JF / Drawn: TS	Drawing Number: AE601

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WINDOW SCHEDULE

TYPE MARK	TYPE	MATERIAL	FINISH	WIDTH	HEIGHT	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	GLAZING	COMMENTS
A	24 X 72 CASEMENT	ALUMINUM CLAD WOOD	FF	2' - 0"	6' - 0"	3/AE321	BY MANUF.	2/AE321	IG	
B	48 X 72 CASEMENT	ALUMINUM CLAD WOOD	FF	4' - 0"	6' - 0"	3/AE321	2/AE602	2/AE321	IG	
C	24 X 48 CASEMENT	ALUMINUM CLAD WOOD	FF	2' - 0"	4' - 0"	SEE WALL SECTIONS	BY MANUF.	SEE WALL SECTIONS	IG	
D	48 X 48 CASEMENT	ALUMINUM CLAD WOOD	FF	4' - 0"	4' - 0"	SEE WALL SECTIONS	1 OR 2/AE602	SEE WALL SECTIONS	IG	
E	48 X 87 1/2 CASEMENT	ALUMINUM CLAD WOOD	FF	4' - 0"	7' - 3 1/2"	3/AE321	2/AE602	2/AE321	IG	
F	24 X 87 1/2 CASEMENT	ALUMINUM CLAD WOOD	FF	2' - 0"	7' - 3 1/2"	3/AE321	BY MANUF.	2/AE321	IG	
G	36 X 48 CASEMENT	ALUMINUM CLAD WOOD	FF	3' - 0"	4' - 0"	BY MANUF.	BY MANUF.	BY MANUF.	MG	

Grand total: 101

WINDOW GENERAL NOTES

1. WINDOWS AND DOORS SHALL BE BY SINGLE MANUFACTURER AND FINISH SHALL MATCH EXISTING AS CLOSELY AS POSSIBLE. PRODUCT REP TO VISIT SITE TO MAKE PROPOSED TYPE AND COLOR SELECTION.
2. PROVIDE TEMPERED GLAZING WHERE REQUIRED BY CODE.
3. INSTALLATION DETAILS ARE SCHEMATIC. CONTRACTOR SHALL PROVIDE ALL STRAPPING, BLOCKING, ETC AS REQUIRED FOR SECURE ATTACHMENT OF FRAME TO WALL AND SHALL INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

WINDOW FINISH ABBREVIATIONS

FF FACTORY FINISHED

GLAZING LEGEND

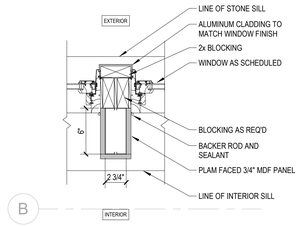
FR#1	FIRE RATED GLAZING
TG	TEMPERED INSULATING GLASS
IG	INSULATING GLASS
MG	MONOLITHIC GLASS

GLAZING GENERAL NOTES

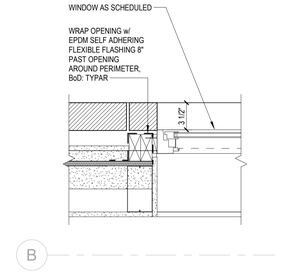
A. TEMPER ALL GLAZING WITHIN 60" OF FINISH FLOOR AND WITHIN 23" HORIZONTALLY OF DOOR.

B. TEMPER ALL GLAZING WITHIN DOORS.

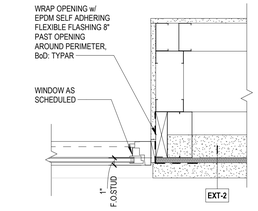
C. TEMPER PANE IF THE AREA IS GREATER THAN 9 SF.



1 AE602 **TYPICAL SPACER MULLION DETAIL**
SCALE: 1 1/2" = 1'-0"

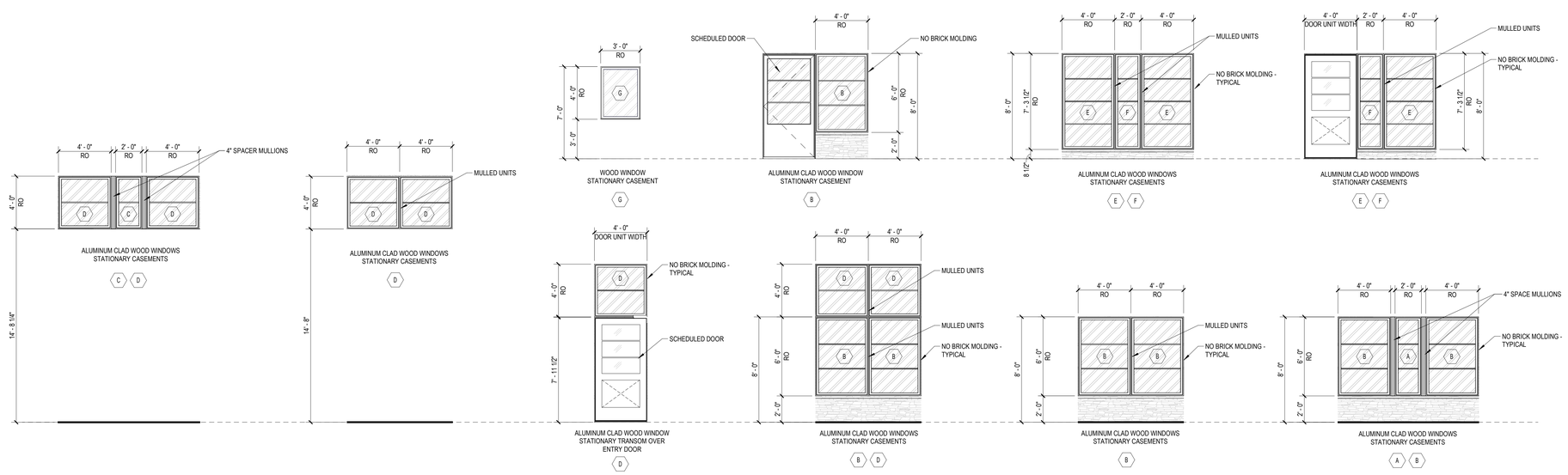


2 AE602 **TYPICAL FIRST FLOOR WINDOW JAMB**
SCALE: 1 1/2" = 1'-0"



3 AE602 **TYPICAL CLERESTORY WINDOW JAMB DETAIL**
SCALE: 1 1/2" = 1'-0"

WINDOW TYPE LEGEND



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Revisions:	Date:

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STATE OF GEORGIA — LUKE J. LEISING — REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: WINDOW SCHEDULE	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 / Checked: JF / Drawn: TS	Drawing Number: AE602

WALL TREATMENT LEGEND

- CG- 1 CORNER GUARD
- WALL PANELING
- HR-1 & CR-1 HANDRAIL + CRASH RAIL
- RWC-1 RIGID VINYL WALL COVERING
- WP WALL PROTECTION

NOTE: FOR FINISH DETAILS REFER TO AI501

INTERIOR FINISH GENERAL NOTES

A. COORDINATE CONSTRUCTION WITH OWNER FURNISHED AND CONTRACTOR PROVIDED EQUIPMENT. REFER TO EQUIPMENT SCHEDULE AND EQUIPMENT PLAN FOR ADDITIONAL INFORMATION. FURNITURE AND EQUIPMENT SHOWN FOR REFERENCE ONLY.

B. COORDINATE WITH ENGINEERING DRAWINGS. REFER ANY DISCREPANCIES TO OWNERS REP AND ARCHITECT.

C. REFER TO PLUMBING ENGINEERING DRAWINGS FOR ADDITIONAL COORDINATION INFORMATION ON SINKS.

D. PROVIDE BLOCKING AS REQUIRED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

E. REFER TO TOILET ACCESSORY SCHEDULE FOR INFORMATION REGARDING ACCESSORIES. PROVIDE SOAP AND PAPER TOWEL DISPENSERS AT EACH SINK WITHIN PROJECT BOUNDARY.

F. REFER TO SPECIFICATIONS FOR CASEWORK HARDWARE.

G. REFER TO FINISH SCHEDULE ON SHEET AI103 FOR ADDITIONAL INFORMATION.

H. REFER TO INTERIOR ELEVATION AND FINISHES SHEET AI SERIES FOR ADDITIONAL NOTES AND LEGENDS.

I. PROVIDE WORK SURFACE SUPPORT BRACKETS AS NECESSARY WITH SPACING RECOMMENDED BY MANUFACTURER. COORDINATE SUPPORT LOCATIONS WITH UNDERCOUNTER EQUIPMENT AND FURNITURE.

J. PROVIDE FILLER PANELS BETWEEN WALLS AND CABINETS, NOT TO EXCEED 3". VERIFY DIMENSIONS IN THE FIELD.

K. PROVIDE PLASTIC LAMINATE ON ALL EXPOSED SURFACES, EDGES AND ENDS OF WALL MOUNTED AND BASE CABINETS. INTERIORS SHALL BE WHITE MELAMINE. PROVIDE FURNITURE FINISHED ENDS ON ALL EXPOSED SIDES OF CASEWORK.

L. WALLS AND INFILL WALL CONSTRUCTION AND FINISHES SHALL BE PROVIDED FROM WALL CORNER TO WALL CORNER.

M. REFER TO INTERIOR ELEVATION AI SERIES FOR ADDITIONAL INFORMATION.

N. REFER TO FINISH PLANS AI SERIES FOR INFORMATION REGARDING ACCENT PAINT LOCATIONS AND FLOORING PATTERNS.

O. PROVIDE P-1 ON WALLS, UNLESS OTHERWISE NOTED.

P. PROVIDE P-2 ON HOLLOW METAL DOOR AND WINDOW FRAMES IN SEMI-GLOSS FINISH, UNLESS OTHERWISE NOTED.

Q. PROVIDE P-3 ON GYPSUM BOARD CEILINGS AND BULKHEADS, UNLESS OTHERWISE NOTED.

R. PROVIDE PAINT TO MATCH WALL PAINT ON ALL EXPOSED METAL ACCESS PANELS, DUCTS AND OTHER MISC. EXPOSED CONSTRUCTION ELEMENTS, UNLESS OTHERWISE NOTED.

S. PATCH AND/OR REPAIR, FINISH, AND PAINT ALL WALLS IN AREA OF WORK.

T. REFER TO INTERIOR ELEVATION SHEET AI SERIES FOR WALL TILE PATTERN. PAINT WALLS ABOVE TILE AS IDENTIFIED IN ELEVATIONS.

U. PROVIDE TS-5 BETWEEN CERAMIC TILE FLOORING AND LVT FLOOR.

V. PROVIDE TS-6 BETWEEN LVT TILE FLOORING AND SHEET FLOORING.

W. PROVIDE TS-7 BETWEEN LVT AND CONCRETE FLOORING.

X. PROVIDE MANUFACTURER TYPICAL TRIM, TRANSITION, AND FINISHING ACCESSORIES. EDGES AND JOINT SHALL BE FINISHED SMOOTH AND TO MANUFACTURER'S INSTRUCTIONS.

Y. PROVIDE VERTICAL LAMINATE GRAIN ON VERTICAL SURFACES AND SLOPED TOPS, UNLESS OTHERWISE NOTED.

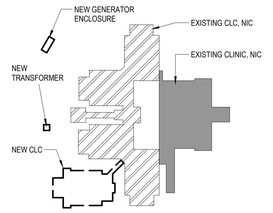
Z. BRACKET SPACING FOR WORKSPACE COUNTERS NOT TO EXCEED 4'-0".

AA. ALL WOOD PANELING TO BE MILLWORK WITH PLASTIC LAMINATE WRAPPED AROUND MEDIUM DENSITY FIBER BOARD. SEE AI SERIES FOR DETAIL.

BB. ALL LAMINATE WALL PANELLING AT CORNERS TO BE A MITERED FINISH.

INTERIOR FINISHES PLAN NOTES

1. PROVIDE CORNER GUARD CG-1. MOUNT ABOVE WALL BASE TO FINISHED CEILING.
2. PROVIDE HANDRAIL & CRASH RAIL IN CORRIDOR AND PROVIDE IMPACT RESISTANT WALL PROTECTION AS DETAILED IN AI SERIES. WALL PROTECTION TO BE PROVIDED AT 36" A.F.F.
3. PROVIDE WALL PROTECTION RWC-1 FROM FLOOR TO 48" A.F.F. AROUND PERIMETER OF ROOM.
4. ALL LAMINATE PANELING AT PATIENT ROOM ALCOVES TO BE TYPICAL.



KEY PLAN

2 AI101 FIRST FLOOR WALL PROTECTION PLAN
SCALE: 1/8" = 1'-0"

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON / CHARLOTTE ENGINEERS

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRST FLOOR WALL FINISH PLAN	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 · Checked: TC · Drawn: BA	Drawing Number: AI101

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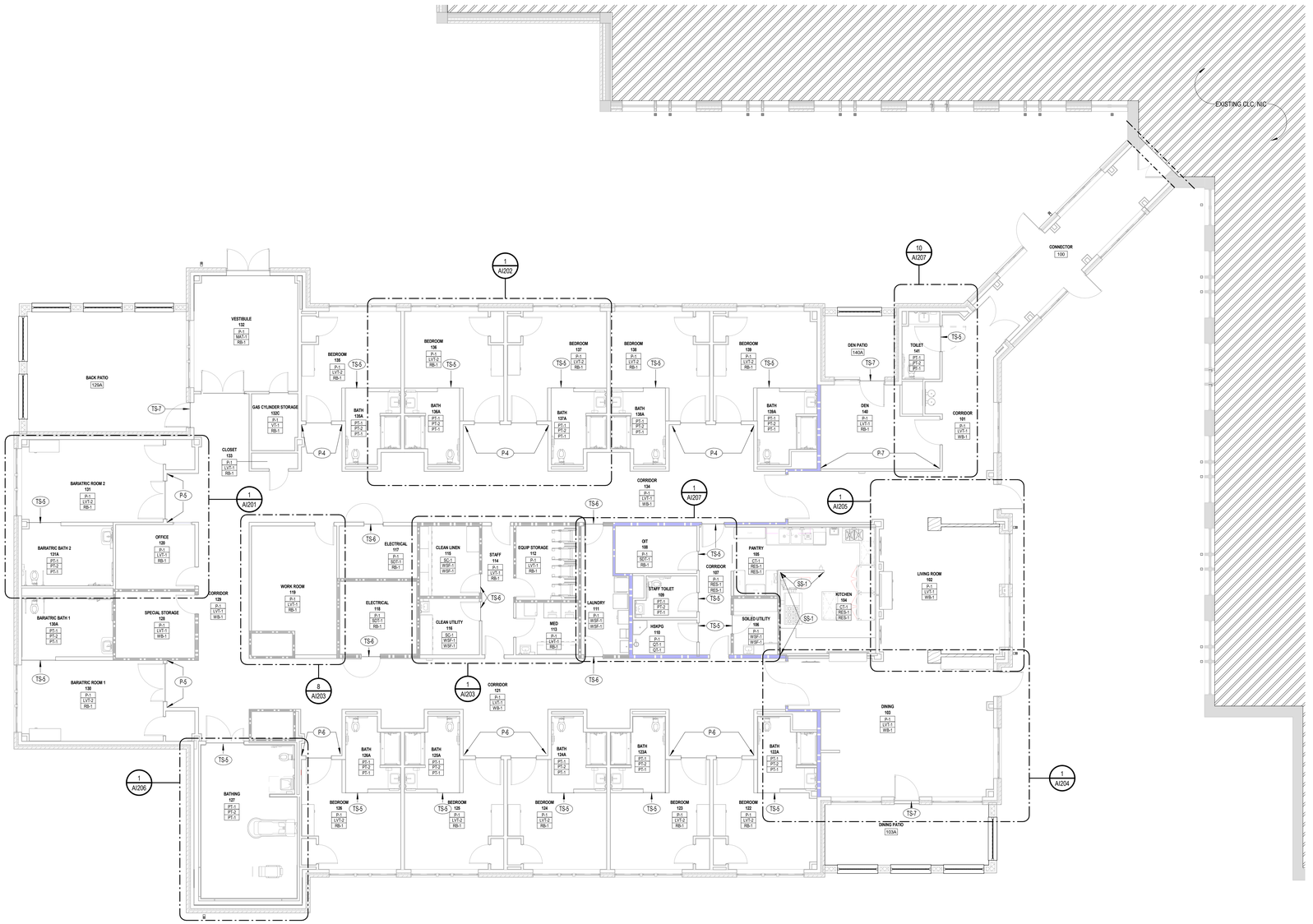

INTERIOR FINISH GENERAL NOTES

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C. REFER TO PLUMBING ENGINEERING DRAWINGS FOR ADDITIONAL COORDINATION INFORMATION ON SINKS.

D. PROVIDE BLOCKING AS REQUIRED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

E. REFER TO TOILET ACCESSORY SCHEDULE FOR INFORMATION REGARDING ACCESSORIES. PROVIDE SOAP AND PAPER TOWEL DISPENSERS AT EACH SINK WITHIN PROJECT BOUNDARY.

F. REFER TO SPECIFICATIONS FOR CASEWORK HARDWARE.

G. REFER TO FINISH SCHEDULE ON SHEET AI103 FOR ADDITIONAL INFORMATION.

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M. REFER TO INTERIOR ELEVATION AI SERIES FOR ADDITIONAL INFORMATION.

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P. PROVIDE P-2 ON HOLLOW METAL DOOR AND WINDOW FRAMES IN SEMI-GLOSS FINISH, UNLESS OTHERWISE NOTED.

Q. PROVIDE P-3 ON GYPSUM BOARD CEILINGS AND BULKHEADS, UNLESS OTHERWISE NOTED.

R. PROVIDE PAINT TO MATCH WALL PAINT ON ALL EXPOSED METAL ACCESS PANELS, DUCTS AND OTHER MISC. EXPOSED CONSTRUCTION ELEMENTS, UNLESS OTHERWISE NOTED.

S. PATCH AND/OR REPAIR, FINISH, AND PAINT ALL WALLS IN AREA OF WORK.

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U. PROVIDE TS-5 BETWEEN CERAMIC TILE FLOORING AND LVT FLOOR.

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W. PROVIDE TS-7 BETWEEN LVT AND CONCRETE FLOORING.

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Y. PROVIDE VERTICAL LAMINATE GRAIN ON VERTICAL SURFACES AND SLOPED TOPS, UNLESS OTHERWISE NOTED.

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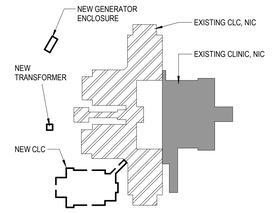

KEY PLAN

1 AI102 FIRST FLOOR INTERIOR FINISH PLAN
SCALE: 1/8" = 1'-0"

Revisions:	Date:

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Drawing Title: FIRST FLOOR FINISH PLAN	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
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FINISH SCHEDULE

FINISH MARK	FINISH	MANUFACTURER	PATTERN/STYLE	COLOR	SIZES	COMMENTS
AP-1	ACOUSTIC WALL PANELS	SNOWSOUND OR EQUAL	FLAP ACOUSTIC PANEL	BIEGE	19"X23"	2
AT-1	ACOUSTICAL CEILING TILE	ARMSTRON OR EQUAL	ULTIMA HEALTH ZONE	WHITE	2X2	
CG-1	CORNER GUARD	INPRO OR EQUAL	130 HIGH IMPACT	CLAM SHELL 0154		
CR-1	CRASH RAIL	INPRO OR EQUAL	700 WALL GUARD	NATURAL CHERRY 0547		
CT-1	CERAMIC TILE	EMSER TILE OR EQUAL	OMBRE	IVORY	4"X12"	33
GR-1	GROUT	MAPEI OR EQUAL		WARM GRAY 93		3
GR-2	GROUT	MAPEI OR EQUAL		COBBLESTONE 103		4
HR-1	HANDRAIL	INPRO OR EQUAL	800 HANDRAIL	NATURAL CHERRY 0547		
LVT-1	LUXURY VINYL TILE	MOHAWK OR EQUAL	LARGE AND LOCAL COLLECTION- RUGGED FOUNDATION C0191	120 PEARLESCENT	6" X 48"	5
LVT-2	LUXURY VINYL TILE	MOHAWK OR EQUAL	LARGE AND LOCAL COLLECTION- RENDERED FLAX C0192	128 BEACH GRASS	6" X 48"	6
MAT-1	WALK OFF MAT	FORBO OR EQUAL	CORAL DUO	9714		30
P-1	PAINT	SHERWIN WILLIAMS OR EQUAL	EGGSHELL	SW9166 DRIFT OF MIST		1
P-2	PAINT	SHERWIN WILLIAMS OR EQUAL	SEMIGLOSS	SW9572 WARM PEWTER		27
P-3	PAINT	SHERWIN WILLIAMS OR EQUAL	EGGSHELL	SW7097 CEILING BRIGHT WHITE		28
P-4	PAINT	SHERWIN WILLIAMS OR EQUAL	EGGSHELL	SW6408 WHEAT GRASS		7
P-5	PAINT	SHERWIN WILLIAMS OR EQUAL	EGGSHELL	SW7005 PURE WHITE		7
P-6	PAINT	SHERWIN WILLIAMS OR EQUAL	EGGSHELL	SW9029 COOL AVOCADO		7
P-7	PAINT	PPG OR EQUAL	EGGSHELL	SW6485 RAINDROP		7
PL-1	PLASTIC LAMINATE	WILSONART OR EQUAL		NATURAL CHERRY 0547		8
PL-2	PLASTIC LAMINATE	WILSONART OR EQUAL		BIEGE WOOD		9
PT-1	PORCELAIN / CERAMIC TILE	EMSER TILE OR EQUAL	MOOD	IVORY	12"X23"	10
PT-2	PORCELAIN TILE MOSAIC	EMSER TILE OR EQUAL	MOOD	RIVER IVORY	12"X23"	11
PT-3	PORCELAIN / CERAMIC TILE	EMSER TILE OR EQUAL	EUPHORIA- LINEAR	LINEAR SILVER	3"X12"	12
QT-1	QUARRY TILE	EMSER TILE OR EQUAL	E QUARRY	LAVA	6"X6"	
RB-1	RESILIENT BASE	MOHAWK OR EQUAL	ASHEN	839	6"	
RES-1	RESINOUS FLOORING	STONHARD OR EQUAL	STONECLAD UT LIGHT TEXTURE	SAGE		13
RWC-1	RIGID VINYL WALL COVERING	INPRO OR EQUAL		CLAM SHELL 0154		
S-1	SOLID SURFACE	CORIAN OR EQUAL		ARCTIC DUNE 9253CM		15
S-2	SOLID SURFACE	CORIAN OR EQUAL		CAMEO WHITE		16
SC-1	SPECIAL EPOXY COATING	SHERWIN WILLIAMS	HIGH BUILD GLAZE WATER BASED EPOXY			32
SD-1	STATIC DISSIPATIVE FLOORING	NORAPLAN OR EQUAL	ENVIRONCARE ED	BASEBALL GAME 7031		14
SS-1	STAINLESS STEEL PANELS	WATERLOO PANELING OR EQUAL		STAINLESS STEEL	96" X 48"	17
TS-1	TRANSITION STRIP METAL	SCHLUTER OR EQUAL	DILEX-AHK	STAINLESS STEEL		18
TS-2	TRANSITION STRIP METAL	SCHLUTER OR EQUAL	RONDEC BULLNOSE	STAINLESS STEEL		19
TS-4	TRANSITION STRIP METAL	SCHLUTER OR EQUAL	JOLLY	STAINLESS STEEL		21
TS-5	TRANSITION STRIP METAL	SCHLUTER OR EQUAL	RENO RAMP-K	STAINLESS STEEL		22
TS-6	TRANSITION STRIP METAL	SCHLUTER OR EQUAL	SCHIENE	STAINLESS STEEL		23
TS-7	REDUCER	JOHNSONITE OR EQUAL	CRS-XX-A	GRAY		24
VT-1	VINYL TILE	MOHAWK OR EQUAL	CREATIVE TERRAIN	GRAPHITE		31
WB-1	WOOD FINISH WALL BASE	CS ACROVYN OR EQUAL	SFR-WB	NATURAL CHERRY	4"	25
WC-1	ROLLER SHADE	DRAPER OR EQUAL	GREEN SCREEN EVOLVE	GEQS39 3% CLOUD		
WP-1	WALL PROTECTION	LEVEL OR EQUAL	TARGA	THE GREAT VINE- ENGLISH IVY 12603LV		26
WP-2	WALL PROTECTION	LEVEL OR EQUAL	TARGA	THE GREAT VINE- CYPRESS GREEN L11143CD		26
WP-3	WALL PROTECTION	LEVEL OR EQUAL	TARGA	THE GREAT VINE- MOONFLOWER L2572LV		26
WP-4	WALL PROTECTION	CARNEGIE OR EQUAL	XOREL	6423W		20
WSF-1	RESILIENT SHEET FLOORING	MOHAWK OR EQUAL	HEALTHY ENVIRONMENTS COLLECTION	MEDELLA FLECK C2061		

INTERIOR FINISH SCHEDULE NOTES

1. FIELD PAINT
2. DOUBLE SIDED ACOUSTIC WALL PANEL WITH 3" ARM
3. BATHROOM TILE GROUT
4. WATER FOUNTAIN TILE GROUT
5. ALL CORRIDORS AND COMMON PUBLIC SPACES
6. PATIENT BEDROOMS
7. ACCENT PAINT
8. ALL WOOD PANELING AND WOOD BASE
9. ALL PATIENT ROOMS & BACK OF HOUSE CASEWORK
10. FIELD TILE
11. SHOWER & ACCENT TILE
12. WATER FOUNTAIN ACCENT TILE
13. HIGH IMPACT, TEMPERATUR RESISTANT KITCHEN FLOORING
14. IT & ELECTRICAL ROOM FLOORING
15. DINING AREA & CHARTING STATION COUNTERTOPS
16. ALL PATIENT ROOMS & BACK OF HOUSE COUNTERTOPS
17. KITCHEN WALL PANELING
18. WALL TO FLOOR COVE TRANSITION
19. FINISH EDGE FOR RESTROOM WALL TILE
20. WALLCOVERING BEHIND ACOUSTIC PANELS
21. TILE EDGE PROTECTION
22. LVT TO CERAMIC & CERAMIC TO LVT TRANSITION.
23. LVT TO RESILIENT & RESILIENT TO LVT TRANSITION
24. LVT TO CONCRETE TRANSITION
25. WOOD FINISH BASE IN LIVING DINING AND PT CORRIDORS
26. PATIENT ALCOVES ONLY
27. DOOR FRAMES
28. CEILINGS & BULKHEADS
29. HOUSEKEEPING
30. VESTIBULE WALK OFF MAT
31. MED GAS STORAGE ROOM
32. MATCH COLOR WITH FIELD PAINT
33. FLOOR TO CEILING CERAMIC TILE

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
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FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
CHARLOTTE ENGINEERS
5838 MONROE ROAD
CHARLOTTE, NC 28212

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STATE OF GEORGIA · LUKE J. LEISING · REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FINISH SCHEDULE
Phase: BID DOCUMENTS
Project Title: Construct TDVV CLC 12 Beds
Project Number: 508-349
Building Number:
Approved:
FULLY SPRINKLERED
Location: 180 MARTIN DR, CARROLLTON, GA 30117
Issue Date: 12/16/2024
Checked: TC
Drawn: BA
Drawing Number: AI103

Autodesk Docs://22.9003 - VA Atlanta Tinka Davis CLC/22.9003_A_v22.rvt
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TOILET ACCESSORY GENERAL NOTES

A. MOUNTING HEIGHTS ARE TYPICAL AND APPLY TO FIXTURES INSTALLED IN NEW RESTROOMS. VERIFY MOUNTING HEIGHTS WITH VENDOR SPECIFIC MOUNTING HEIGHTS.

B. TYPICAL MOUNTING HEIGHTS AND INTERIOR ELEVATIONS ARE FOR USE IN COORDINATION OF FIXTURES. NOTE NOT EVERY FIXTURES MAY BE REPRESENTED IN INTERIOR ELEVATIONS. COORDINATE PROJECT REQUIREMENTS WITH THE FLOOR PLAN AND ENLARGED FLOOR PLANS.

C. COORDINATE INSTALLATION OF EQUIPMENT WITH PLUMBING FIXTURES AND PLUMBING DRAWINGS. REFER TO PLUMBING PLANS FOR INFORMATION ON PLUMBING ACCESSORIES AND FIXTURES.

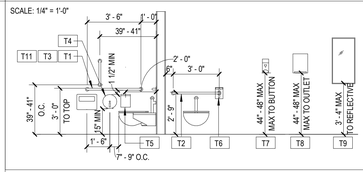
D. PROVIDE EACH SINK WITHIN SCOPE WITH A PAPER TOWEL DISPENSER AND SOAP DISPENSER.

E. PROVIDE UNDER LAVATORY GUARD AT WALL MOUNTED HAND LAVATORIES IN SCOPE.

F. PROVIDE INWALL BLOCKING FOR WALL MOUNTED TOILET ACCESSORIES. ACCESSORIES IN BARIATRIC ROOMS SHALL RESIST ADDITIONAL FORCES UP TO 1,250LBS.

TYPICAL TOILET ACCESSORY MOUNTING HEIGHTS

SCALE: 1/4" = 1'-0"

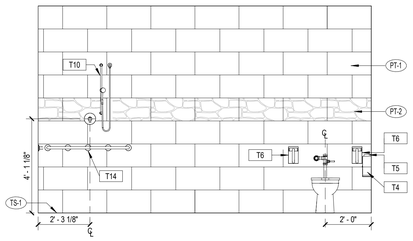


TOILET ACCESSORY SCHEDULE

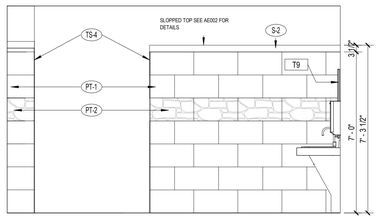
MARK	DESCRIPTION	MANUFACTURER	MODEL	RESPONSIBLE PARTY
T1	42" GRAB BAR	BOBRICK WASHROOM EQUIPMENT, INC	B-6806 x 42	CC
T2	36" HORIZONTAL GRAB BAR	BOBRICK WASHROOM EQUIPMENT, INC	B-6806 X 36	CC
T3	24" GRAB BAR	BOBRICK WASHROOM EQUIPMENT, INC	B-6806 x 24	CC
T4	TOILET TISSUE DISPENSER	BOBRICK WASHROOM EQUIPMENT, INC	B-2890	VC
T5	SANITARY PRODUCT DISPOSAL UNIT - SURFACE MOUNTED	BRADLEY CORPORATION	4A10	CC
T6	PULL UP GRAB BAR	BOBRICK WASHROOM EQUIPMENT, INC	B-4998	CC
T7	SOAP DISPENSER	STERIS	DBU1307QB + 1308Q7	VC
T8	PAPER TOWEL DISPENSER	KIMBERLY CLARK	KCC34348	VC
T9	MIRROR	BOBRICK WASHROOM EQUIPMENT, INC	B-165 1836	CC
T10	SHOWER SINGLE HANDED	DELTA	ARCADIA MONITOR 14	CC
T11	48" HORIZONTAL GRAB BAR	BOBRICK WASHROOM EQUIPMENT, INC	B-5806X48	CC
T12	36" HORIZONTAL GRAB BAR - BARIATRIC	BRADLEY CORPORATION	8320-106360	CC
T13	TELESCOPING CURTAIN ROD KIT WITH HARDWARE	OCELCO HEALTHCARE EQUIPMENT & PARTS	SKU:215-611, ALUMINUM ROD 39"-80" EXTENSION	CC
T14	42" HORIZONTAL GRAB BAR - BARIATRIC	BRADLEY CORPORATION	8320-106420	CC

RESPONSIBLE PARTY LEGEND

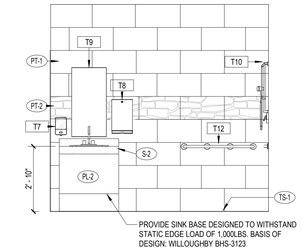
CC	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
VC	VA FURNISHED / CONTRACTOR INSTALLED
VV	VA FURNISHED / VA INSTALLED
VC(CF)	VA FURNISHED WITH CONSTRUCTION FUNDS / CONTRACTOR INSTALLED
VV(CF)	VA FURNISHED WITH CONSTRUCTION FUNDS / VA INSTALLED
R	RELOCATE / REUSED EXISTING EQUIPMENT



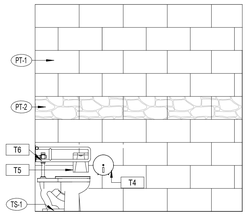
9 A0201 **INTERIOR ELEVATION - TYPICAL BARIATRIC RESTROOM WEST**
SCALE: 3/8" = 1'-0"



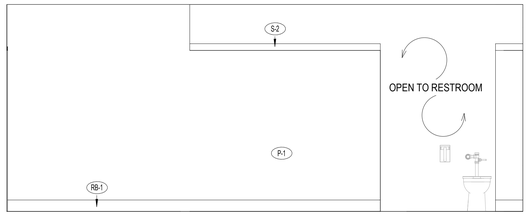
8 A0201 **INTERIOR ELEVATION - TYPICAL BARIATRIC RESTROOM EAST**
SCALE: 3/8" = 1'-0"



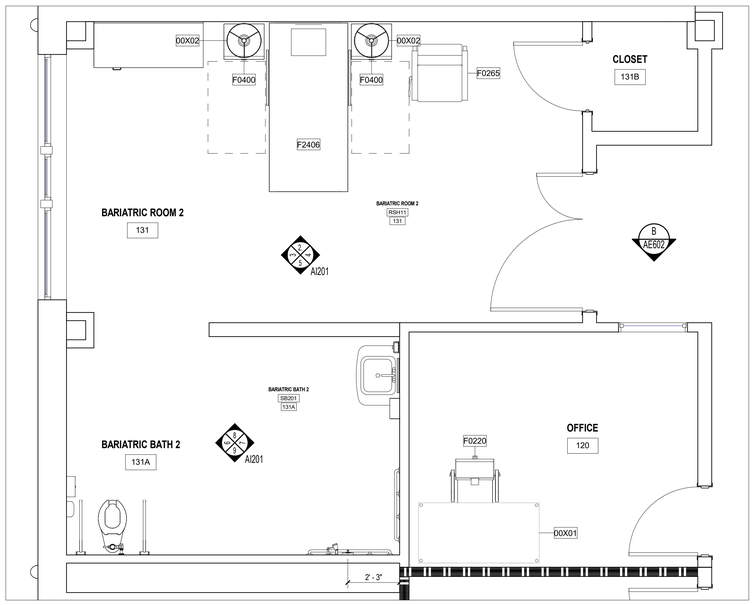
7 A201 **INTERIOR ELEVATION - TYPICAL BARIATRIC RESTROOM SOUTH**
SCALE: 3/8" = 1'-0"



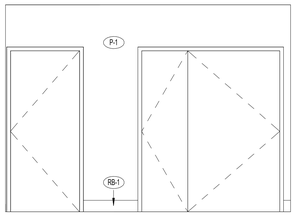
6 A201 **INTERIOR ELEVATION- TYPICAL BARIATRIC RESTROOM NORTH**
SCALE: 3/8" = 1'-0"



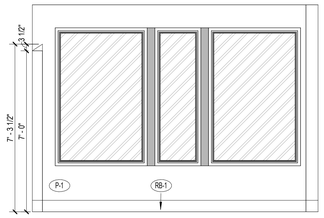
5 A201 **INTERIOR ELEVATION - BARIATRIC ROOM WEST**
SCALE: 3/8" = 1'-0"



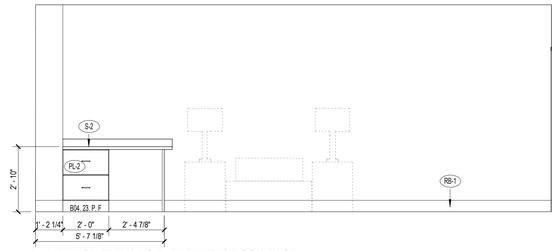
1 A001 **ENLARGED PLAN - BARIATRIC PATIENT ROOM**
SCALE: 3/8" = 1'-0"



4 A001 **INTERIOR ELEVATION - BARIATRIC ROOM SOUTH**
SCALE: 3/8" = 1'-0"



3 A001 **INTERIOR ELEVATION - BARIATRIC ROOM NORTH**
SCALE: 3/8" = 1'-0"



2 A001 **INTERIOR ELEVATION - BARIATRIC ROOM EAST**
SCALE: 3/8" = 1'-0"

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ENLARGED PLANS & INTERIOR ELEVATIONS	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds		Project Number: 508-349
Approved:				Building Number
	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117		Drawing Number: AI201
		Issue Date: 12/16/2024	Checked: TC	Drawn: BA

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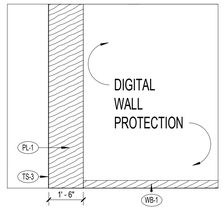
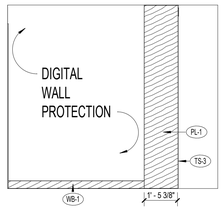
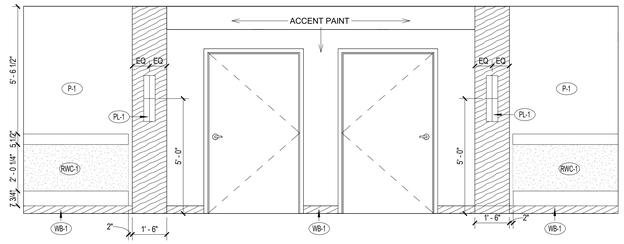


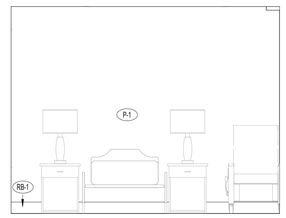
12 A202 **INTERIOR ELEVATION - TYPICAL PATIENT ALCOVE NORTH**
SCALE: 3/8" = 1'-0"



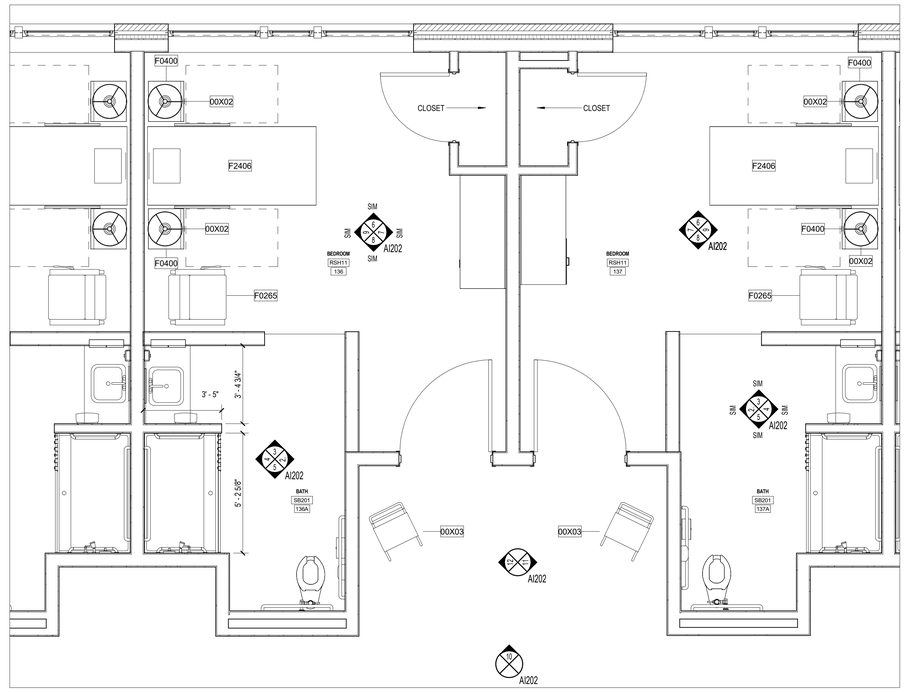
11 A202 **INTERIOR ELEVATION - TYPICAL PATEINT ALCOVE SOUTH**
SCALE: 3/8" = 1'-0"



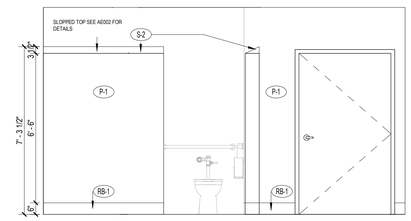
10 A202 **INTERIOR ELEVATION - TYPICAL PATIENT ROOM ALCOVE**
SCALE: 3/8" = 1'-0"



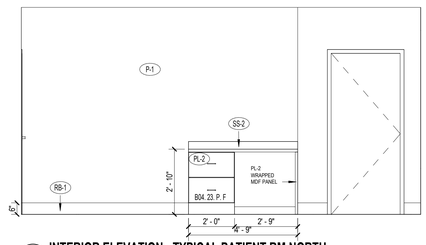
9 A202 **INTERIOR ELEVATION - TYPICAL PATIENT RM SOUTH**
SCALE: 3/8" = 1'-0"



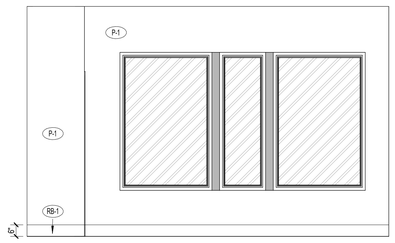
1 A202 **ENLARGED PLAN- PATIENT ROOM AND CORRIDORS**
SCALE: 3/8" = 1'-0"



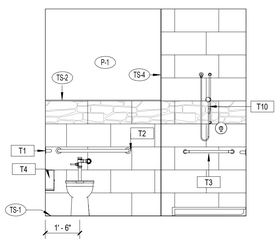
8 A202 **INTERIOR ELEVATION - TYPICAL PATIENT RM WEST**
SCALE: 3/8" = 1'-0"



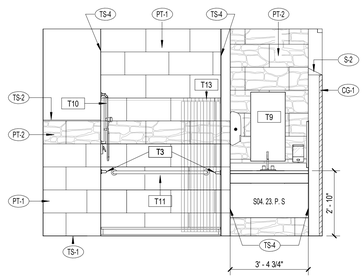
7 A202 **INTERIOR ELEVATION - TYPICAL PATIENT RM NORTH**
SCALE: 3/8" = 1'-0"



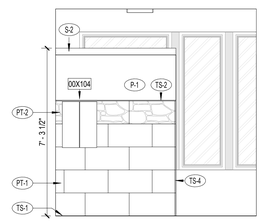
6 A202 **INTERIOR ELEVATION - TYPICAL PATIENT RM EAST**
SCALE: 3/8" = 1'-0"



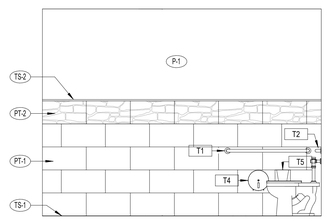
5 A202 **INTERIOR ELEVATION - TYPICAL PATIENT TLT WEST**
SCALE: 3/8" = 1'-0"



4 A202 **INTERIOR ELEVATION - TYPICAL PATIENT TLT NORTH**
SCALE: 3/8" = 1'-0"



3 A202 **INTERIOR ELEVATION - TYPICAL PATIENT TLT EAST**
SCALE: 3/8" = 1'-0"



2 A202 **INTERIOR ELEVATION - TYPICAL PATIENT TLT SOUTH**
SCALE: 3/8" = 1'-0"

Revisions:	**Date:**

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ENLARGED PLAN & INTERIOR ELEVATIONS

Phase: BID DOCUMENTS

Project Title: Construct TDVV CLC 12 Beds

Project Number: 508-349

Building Number:

Approved:

FULLY SPRINKLERED

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024

Checked: TC

Drawn: BA

Drawing Number: AI202

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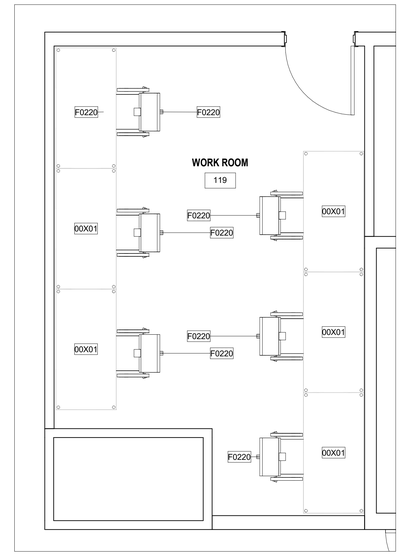
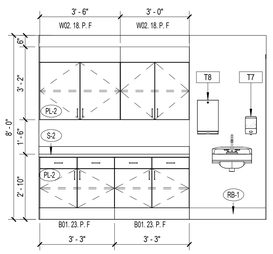


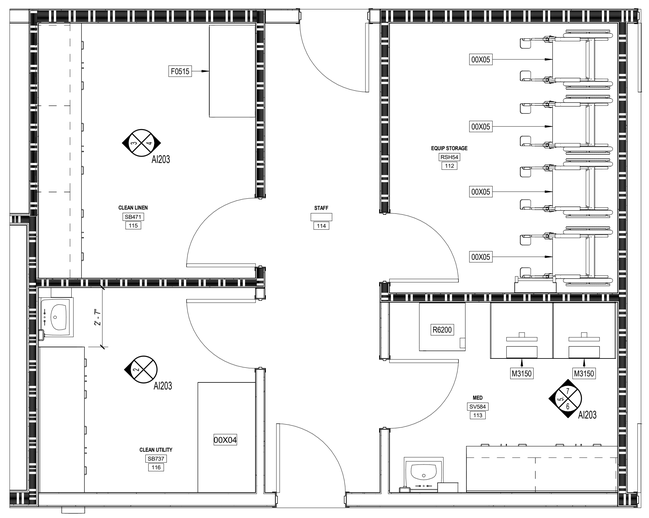
8 A0203 **ENLARGED PLAN - WORK ROOM**
SCALE: 3/8" = 1'-0"

7 A0203 **INTERIOR ELEVATION - MEDICATION ROOM**
SCALE: 3/8" = 1'-0"

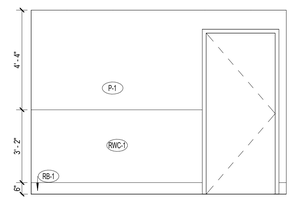


6 A0203 **INTERIOR ELEVATION - MEDICATION ROOM WEST**
SCALE: 3/8" = 1'-0"

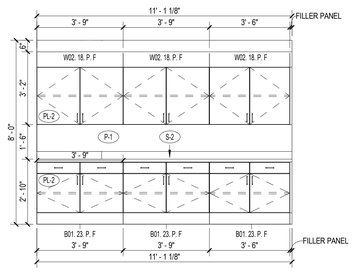
5 A0203 **INTERIOR ELEVATION MEDICATION ROOM NORTH**
SCALE: 3/8" = 1'-0"



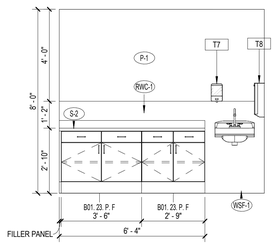
1 A0203 **ENLARGED PLAN- MEDICINE & UTILITY ROOMS**
SCALE: 3/8" = 1'-0"



4 A0203 **INTERIOR ELEVATION - CLEAN LINEN SOUTH**
SCALE: 3/8" = 1'-0"



3 A0203 **INTERIOR ELEVATION - CLEAN LINEN NORTH**
SCALE: 3/8" = 1'-0"



2 A0203 **INTERIOR ELEVATION - CLEAN UTILITY**
SCALE: 3/8" = 1'-0"

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title ENLARGED PLANS & INTERIOR ELEVATIONS	**Phase** BID DOCUMENTS	**Project Title** Construct TDVV CLC 12 Beds	**Project Number** 508-349
			Building Number
Approved:	FULLY SPRINKLERED	**Location** 180 MARTIN DR, CARROLLTON, GA 30117	**Drawing Number** AI203
		Issue Date 12/16/2024 · **Checked** TC · **Drawn** BA	

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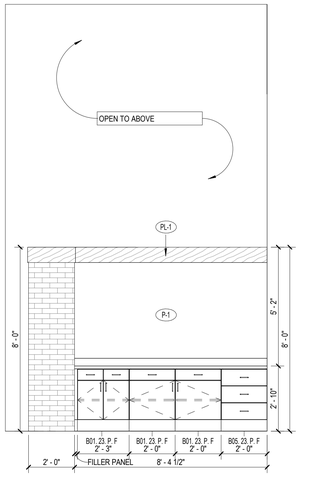

6 A204 INTERIOR ELEVATION - DINING ROOM EAST
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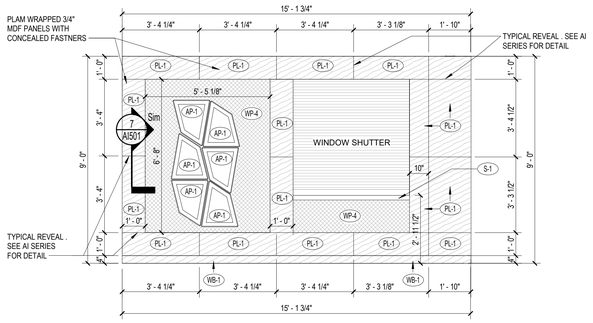
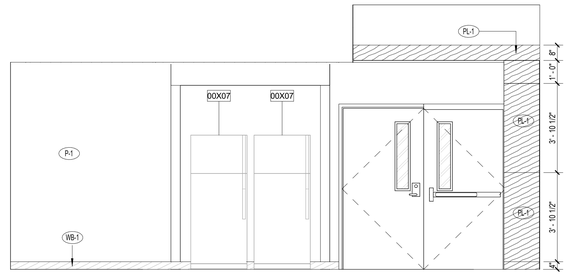
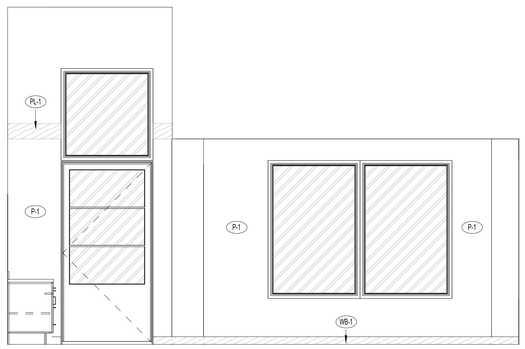


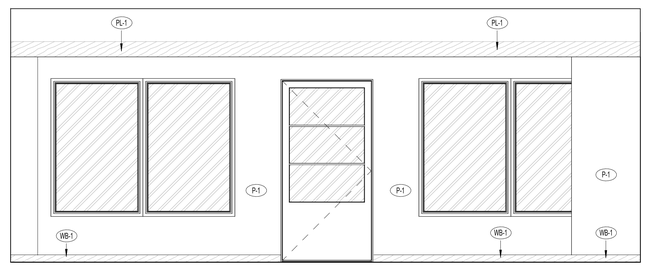
5 A204 INTERIOR ELEVATION - KITCHEN WINDOW EAST
SCALE: 3/8" = 1'-0"



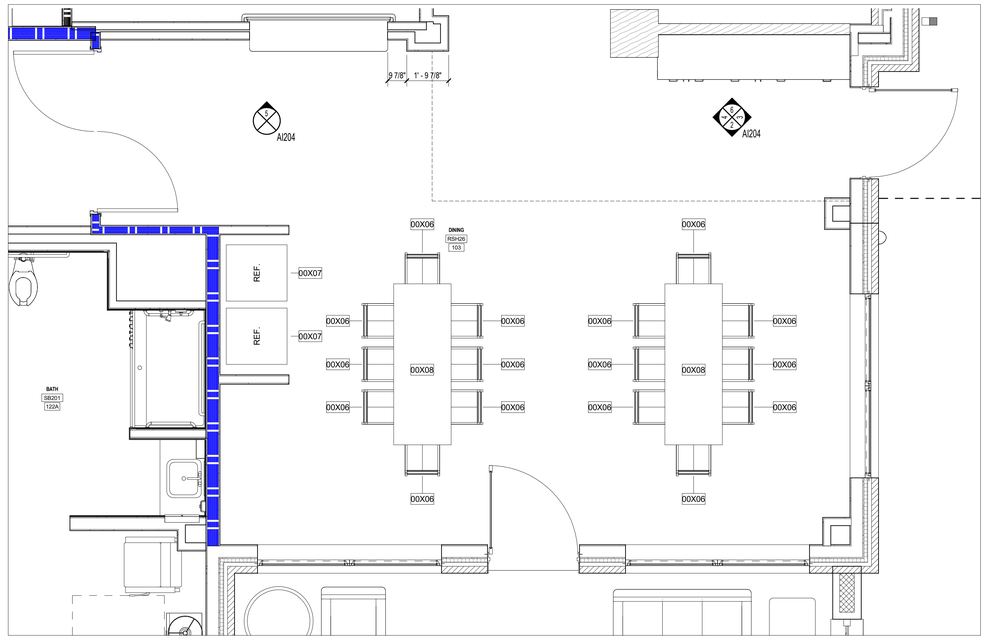
4 A204 INTERIOR ELEVATION - DINING ROOM NORTH
SCALE: 3/8" = 1'-0"



3 A204 INTERIOR ELEVATION - DINING ROOM SOUTH
SCALE: 3/8" = 1'-0"



2 A204 INTERIOR ELEVATION - DINING ROOM WEST
SCALE: 3/8" = 1'-0"



1 A204 ENLARGED PLAN DINING ROOM
SCALE: 3/8" = 1'-0"

Revisions:	Date:

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CIVIL ENGINEER, ARCHITECT, STRUCTURAL ENGINEER
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ENLARGED PLANS & INTERIOR ELEVATIONS	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number:
		Issue Date: 12/16/2024 · Checked: TC · Drawn: BA	Drawing Number: AI204

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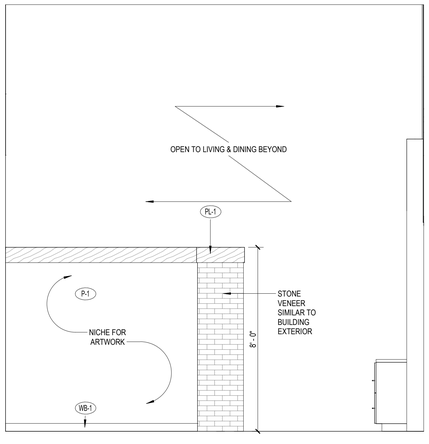
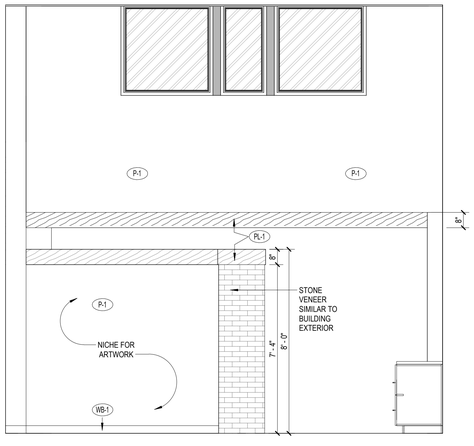
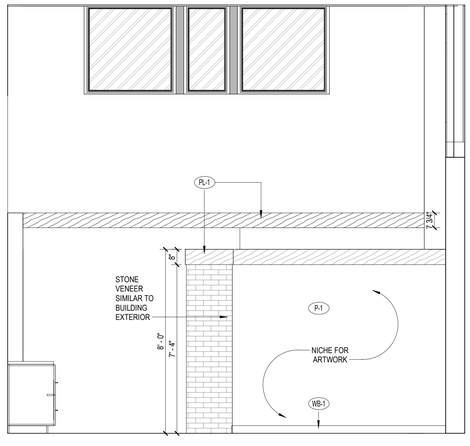


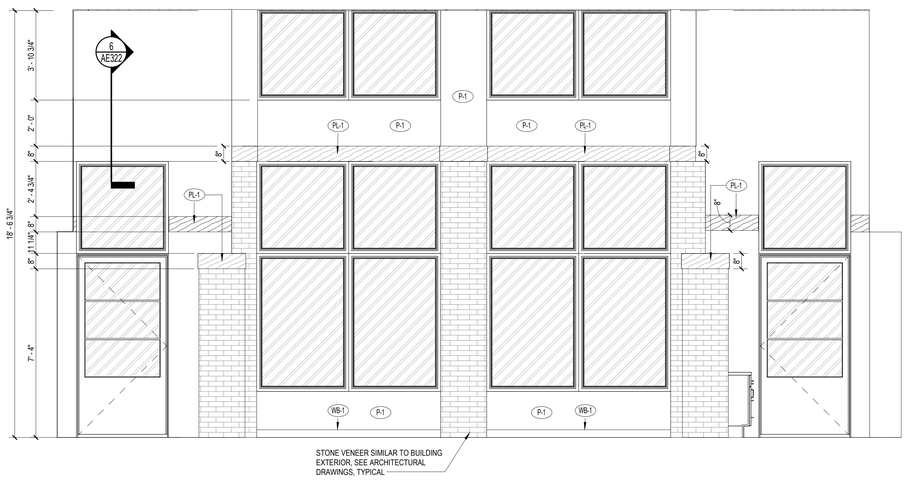
5 AI205 **INTERIOR ELEVATION- ENTRANCE CORRIDOR**
SCALE: 3/8" = 1'-0"



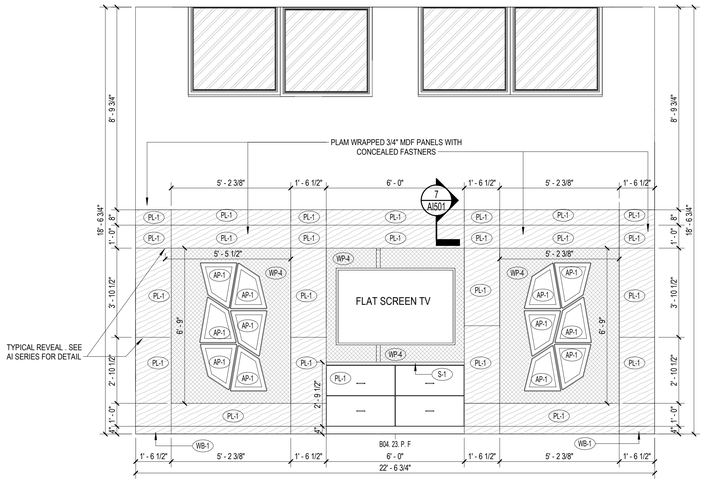
5 AI205 **INTERIOR ELEVATION - LIVING ROOM WEST**
SCALE: 3/8" = 1'-0"



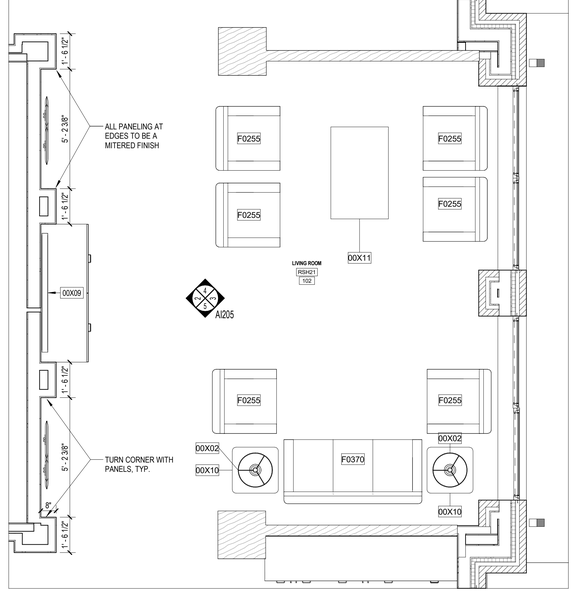
4 AI205 **INTERIOR ELEVATION - LIVING ROOM EAST**
SCALE: 3/8" = 1'-0"



3 AI205 **INTERIOR ELEVATION - LIVING ROOM SOUTH**
SCALE: 3/8" = 1'-0"



2 AI205 **INTERIOR ELEVATION - LIVING ROOM NORTH**
SCALE: 3/8" = 1'-0"



1 AI205 **ENLARGED PLAN LIVING ROOM & ENTRANCE**
SCALE: 3/8" = 1'-0"

Revisions:	Date:

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Drawing Title: ENLARGED PLANS & INTERIOR ELEVATIONS	Phase: BID DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
	Building Number:
Location: 180 MARTIN DR, CARROLLTON, GA 30117	Drawing Number: AI205
Issue Date: 12/16/2024	Checked: TC
	Drawn: BA

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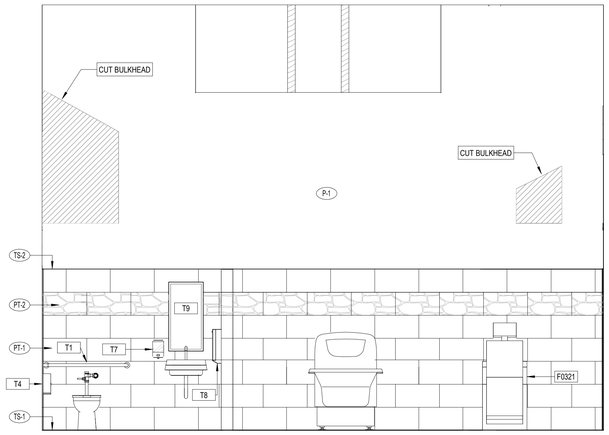
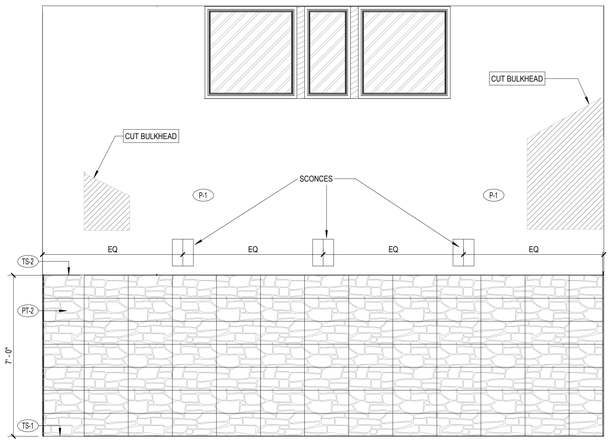
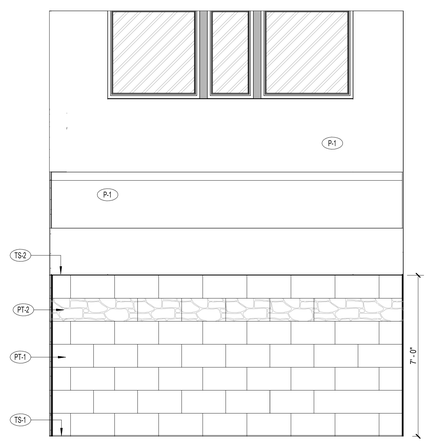


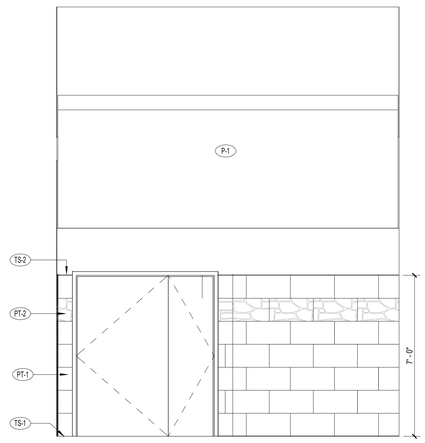
5 A206 **INTERIOR ELEVATION - BATHING SUITE SOUTH**
SCALE: 3/8" = 1'-0"



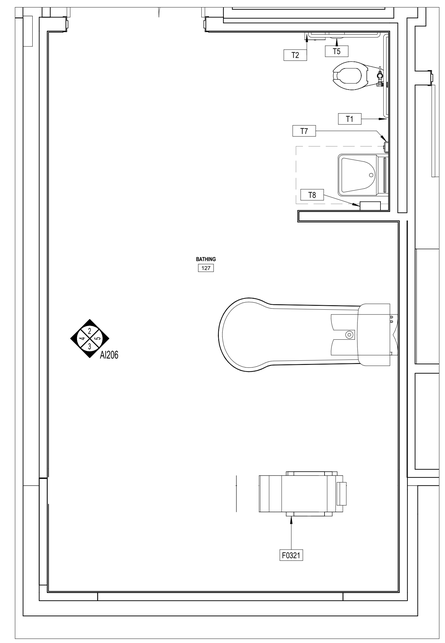
1 A206 **INTERIOR ELEVATION - BATHING SUITE NORTH**
SCALE: 3/8" = 1'-0"



2 A206 **INTERIOR ELEVATION - BATHING SUIT WEST**
SCALE: 3/8" = 1'-0"



3 A206 **INTERIOR ELEVATION - BATHING SUITE EAST**
SCALE: 3/8" = 1'-0"



1 A206 **ENLARGED PLAN- BATHING SUITE**
SCALE: 3/8" = 1'-0"

Revisions:	Date:

CONSULTANT

Consultant:
CHARLOTTE ENGINEERS
5838 MONROE ROAD
CHARLOTTE, NC 28212

704-531-3000

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Drawing Title: ENLARGED PLANS & INTERIOR ELEVATIONS	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:			Building Number
	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Drawing Number: AI206
		Issued: 12/16/2024 · Checked: TC · Drawn: BA	

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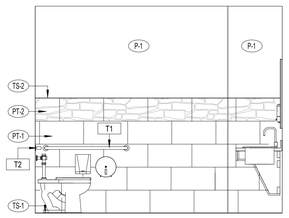
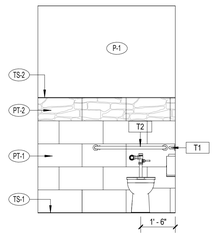
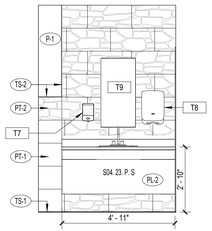


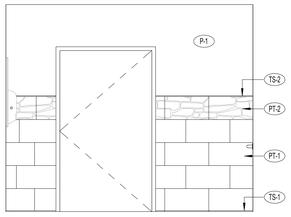
10 A207 **INTERIOR ELEVATION- PUBLIC RESTRROM NORTH**
SCALE: 3/8" = 1'-0"



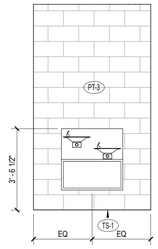
14 A207 **INTERIOR ELEVATION- PUBLIC RESTROOM WEST**
SCALE: 3/8" = 1'-0"



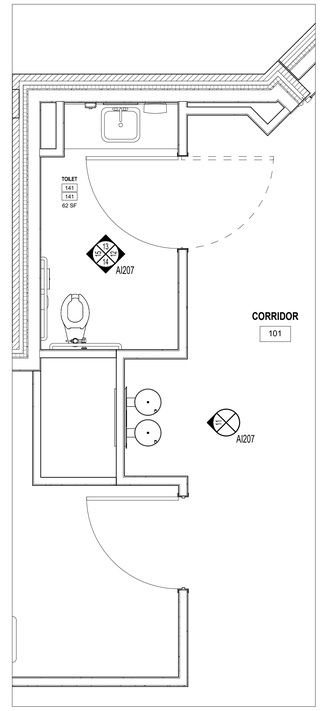
13 A207 **INTERIOR ELEVATION - PUBLIC RESTROOM EAST**
SCALE: 3/8" = 1'-0"



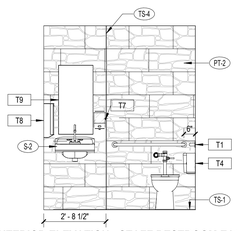
12 A207 **INTERIOR ELEVATION - PUBLIC RESTROOM SOUTH**
SCALE: 3/8" = 1'-0"



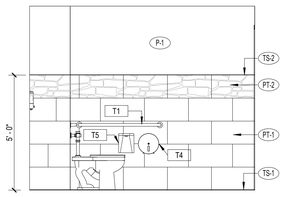
11 A207 **INTERIOR ELEVATION - WATER FOUNTAIN**
SCALE: 3/8" = 1'-0"



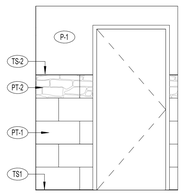
10 A207 **ENLARGED PLAN - DEN & SURROUNDINGS**
SCALE: 3/8" = 1'-0"



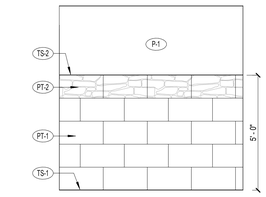
9 A207 **INTERIOR ELEVATION - STAFF RESTROOM EAST**
SCALE: 3/8" = 1'-0"



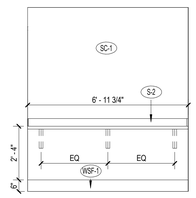
8 A207 **INTERIOR ELEVATION - STAFF RESTROOM NORTH**
SCALE: 3/8" = 1'-0"



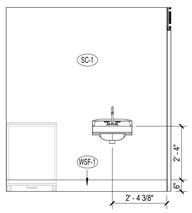
7 A207 **INTERIOR ELEVATION - STAFF RESTROOM SOUTH**
SCALE: 3/8" = 1'-0"



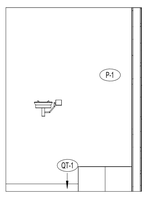
6 A207 **INTERIOR ELEVATION - STAFF RESTROOM WEST**
SCALE: 3/8" = 1'-0"



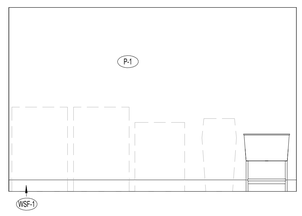
1 A207 **INTERIOR ELEVATION - SOILED UTILITY EAST**
SCALE: 3/8" = 1'-0"



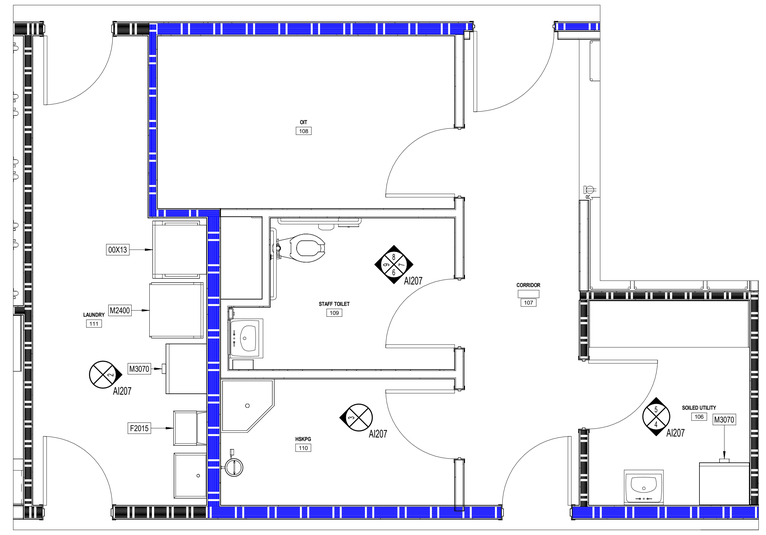
4 A207 **INTERIOR ELEVATION - SOILED UTILTY WEST**
SCALE: 3/8" = 1'-0"



3 A207 **INTERIOR ELEVATION - HOUSEKEEPING NORTH**
SCALE: 3/8" = 1'-0"



2 A207 **INTERIOR ELEVATION - LAUNDRY SOUTH**
SCALE: 3/8" = 1'-0"



1 A207 **ENLARGED PLAN - BACK OF HOUSE**
SCALE: 3/8" = 1'-0"

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Office of Construction and Facilities Management

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Drawing Title: ENLARGED PLANS & INTERIOR ELEVATIONS	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
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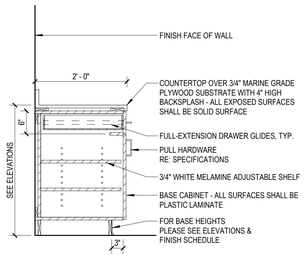

14 A501 **B01.23.PF**
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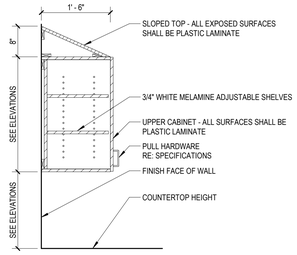

13 A501 **W02.18.P.F**
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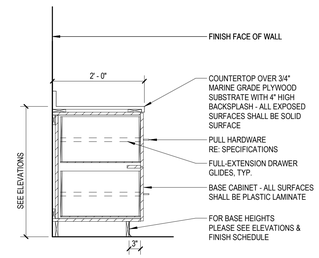
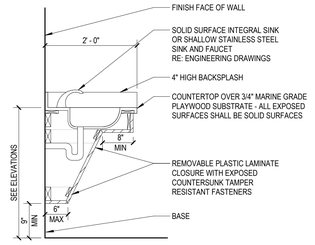
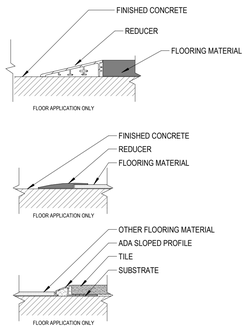


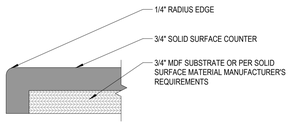
12 A501 **B04.23.P.F**
SCALE: 3/4" = 1'-0"



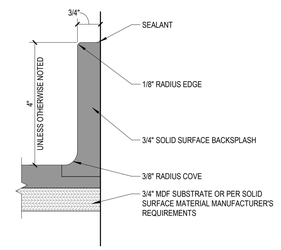
11 A501 **S04.23.P.S**
SCALE: 3/4" = 1'-0"



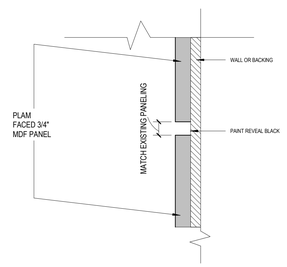
10 A501 **SLOPED TRANSITION DETAILS**
SCALE: 6" = 1'-0"



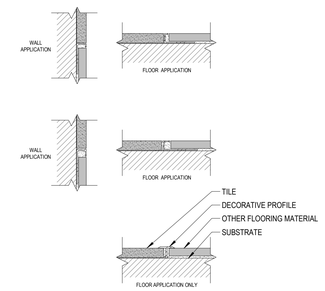
9 A501 **TYPICAL SOLID SURFACE EDGE DETAIL**
SCALE: 6" = 1'-0"



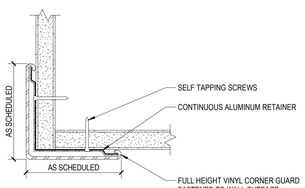
8 A501 **TYPICAL SOLID SURFACE BACKSPLASH DETAIL**
SCALE: 6" = 1'-0"



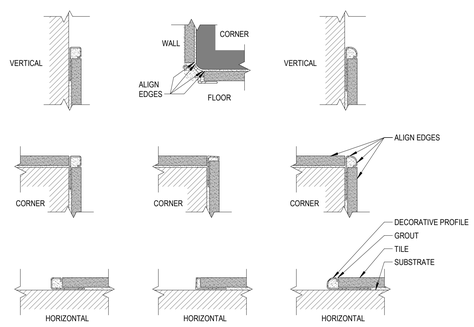
7 A501 **TYPICAL PLASTIC LAMINATE FACED WALL PANEL & REVEAL DETAIL**
SCALE: 1 1/2" = 1'-0"



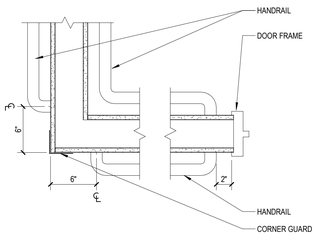
6 A501 **SAME-HEIGHT TRANSITION DETAILS**
SCALE: 6" = 1'-0"



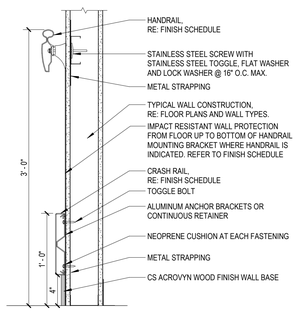
5 A501 **DETAIL - VINYL CORNER GUARD**
SCALE: 6" = 1'-0"



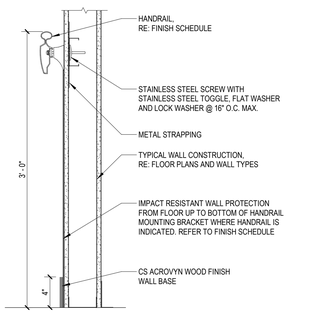
4 A501 **WALL EDGING TRANSITION DETAILS**
SCALE: 6" = 1'-0"



3 A501 **TYPICAL PLAN DETAIL - HANDRAIL/CRASHRAIL**
SCALE: 1 1/2" = 1'-0"



2 A501 **DETAIL - HANDRAIL/CRASHRAIL & BASE**
SCALE: 1 1/2" = 1'-0"



1 A501 **DETAIL - HANDRAIL/WALL PROTECTION & BASE**
SCALE: 1 1/2" = 1'-0"

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title INTERIOR FINISHES DETAILS	**Phase** BID DOCUMENTS	**Project Title** Construct TDVV CLC 12 Beds	**Project Number** 508-349
Approved:	FULLY SPRINKLERED	**Location** 180 MARTIN DR, CARROLLTON, GA 30117	**Building Number**
		Issue Date 12/16/2024 · **Checked** TC · **Drawn** BA	**Drawing Number** AI501

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LIVING ROOM VIEW

DINING ROOM VIEW

PATIENT CORRIDOR

PATIENT ROOM

NOTE: ALL 3D RENDERED IMAGES ARE FOR CONCEPTUAL USE ONLY

Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: INTERIOR RENDERINGS	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number:
		Issue Date: 12/16/2024 / Checked: MT / Drawn: BA	Drawing Number: AI601

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SIGNAGE GENERAL NOTES

A. THE SIGNAGE VENDOR SHALL PROVIDE SHOP DRAWINGS FOR ALL NEW SIGNS TO BE REVIEWED AND APPROVED BY THE VA PRIOR TO FABRICATION.

B. ALL SIGNAGE INDICATED IS A BASIS OF DESIGN. ALL CONTENT, MODIFICATIONS, AND VERBIAGE ARE TO BE DETERMINED BY THE VA PRIOR TO FABRICATION.

C. WHEN EXISTING SIGNAGE IS REMOVED CONTRACTOR SHALL REPAIR ANY DAMAGE TO SUBSTRATE AND MATCH FINISHES PRIOR TO THE INSTALLATION OF NEW OR SALVAGED SIGNAGE.

D. SIGNAGE SHOULD BE INSTALLED TO COMPLY WITH ALL APPLICABLE CODES. ALL TACTILE ROOM NUMBER SIGNS OR OTHER TACTILE ROOM IDENTIFICATION SIGNS ARE REQUIRED TO MEET ABA/ADA REQUIREMENT FOR HEIGHT AND BRAILLE TEXT.

1 A901 SCALE: 1/8" = 1'-0"

FIRST FLOOR SIGNAGE PLAN

Revisions:	Date:

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Drawing Title	SIGNAGE PLAN
Phase	BID DOCUMENTS
Project Title	Construct TDVV CLC 12 Beds
Project Number	508-349
Building Number	
Approved:	
	FULLY SPRINKLERED
Location	180 MARTIN DR, CARROLLTON, GA 30117
Drawing Number	AI901
Issue Date	12/16/2024
Checked	TC
Drawn	BA

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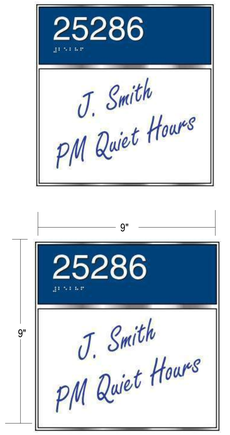
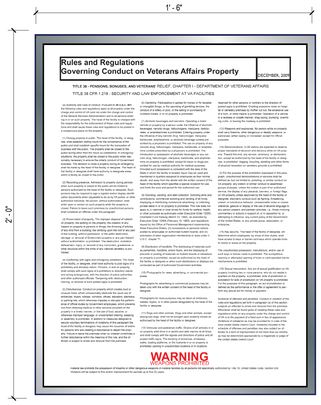


10 A902 **IN-05.06**
SCALE: 3" = 1'-0"

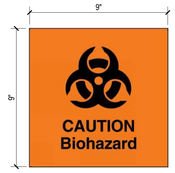


BASIS OF DESIGN.
MOUNT AT 6'-6" AFF TO TOP OF SIGN.

1 A902 **IN-02.08**
SCALE: 3" = 1'-0"

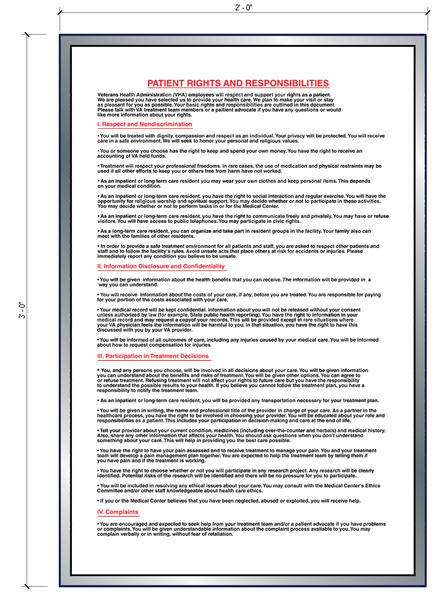
BASIS OF DESIGN.
MOUNT AT 5'-0" AFF
TO TOP OF SIGN

15 A902 **IN-04.02**
SCALE: 3" = 1'-0"



BASIS OF DESIGN.
MOUNT CENTERED ON DOOR
AT 5'-3" AFF TO TOP OF SIGN

6 A902 **IN-01.22**
SCALE: 3" = 1'-0"

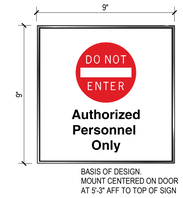


BASIS OF DESIGN.
MOUNT AT 6'-6" AFF TO TOP OF SIGN.

2 A902 **IN-02.07**
SCALE: 3" = 1'-0"

BASIS OF DESIGN.
MOUNT AT 5'-0" AFF
TO TOP OF SIGN

12 A902 **IN-09.03**
SCALE: 3" = 1'-0"

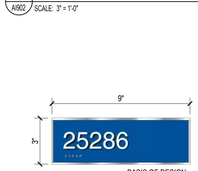


BASIS OF DESIGN.
MOUNT CENTERED ON DOOR
AT 5'-3" AFF TO TOP OF SIGN

5 A902 **IN-08.02**
SCALE: 3" = 1'-0"

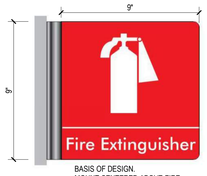
BASIS OF DESIGN.
MOUNT AT 5'-1" AFF TO BOTTOM OF SIGN

1 A902 **IN-02.01**
SCALE: 3" = 1'-0"



BASIS OF DESIGN.
MOUNT AT 5'-0" AFF
TO TOP OF SIGN

9 A902 **IN-03.01**
SCALE: 3" = 1'-0"



BASIS OF DESIGN.
MOUNT CENTERED ABOVE FIRE
EXTINGUISHER CABINET AT 7'-0" AFF TO
BOTTOM OF SIGN

4 A902 **IN-01.02**
SCALE: 3" = 1'-0"

Revisions:	Date:

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Office of Construction and Facilities Management

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Drawing Title: SIGNAGE TYPE	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 · Checked: TC · Drawn: BA	Drawing Number: AI902

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RESPONSIBLE PARTY LEGEND

CC	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
VC	VA FURNISHED / CONTRACTOR INSTALLED
VV	VA FURNISHED / VA INSTALLED
VC(CF)	VA FURNISHED WITH CONSTRUCTION FUNDS / CONTRACTOR INSTALLED
VV(CF)	VA FURNISHED WITH CONSTRUCTION FUNDS / VA INSTALLED
R	RELOCATE / REUSED EXISTING EQUIPMENT

EQUIPMENT GENERAL NOTES

A. PROVIDE BLOCKING IN WALLS TO ACCOMMODATE EQUIPMENT, FURNISHINGS, AND TECHNOLOGY, AND WALL MOUNTED ACCESSORIES AS REQUIRED. REFER TO ARCHITECTURE SHEETS FOR MORE INFORMATION.

B. COORDINATE ALL EQUIPMENT LOCATIONS AND UTILITIES REQUIREMENTS WITH EQUIPMENT PLANS, SCHEDULES, AND ENGINEERING DRAWINGS.

C. REFER TO FURNITURE VENDOR DRAWINGS AND DETAILED FURNITURE SCHEDULE FOR FINAL FURNITURE PLACEMENT.

D. REFER TO THE VA ACQUISITION CODES FOR EACH PIECE OF EQUIPMENT WITHIN THE PROJECT SCOPE TO DETERMINE THE PURCHASING AND INSTALLATION RESPONSIBILITY REQUIRED.

E. FINAL FURNITURE AND EQUIPMENT SPECIFICATIONS TO BE REVIEWED AND APPROVED BY THE VA PRIOR TO PLACEMENT OF ORDER.

F. ALL EQUIPMENT AND FURNITURE INDICATED IN THE DRAWINGS ARE DRAWN TO SCALE FOR TEST FITTING UNLESS OTHERWISE NOTED.

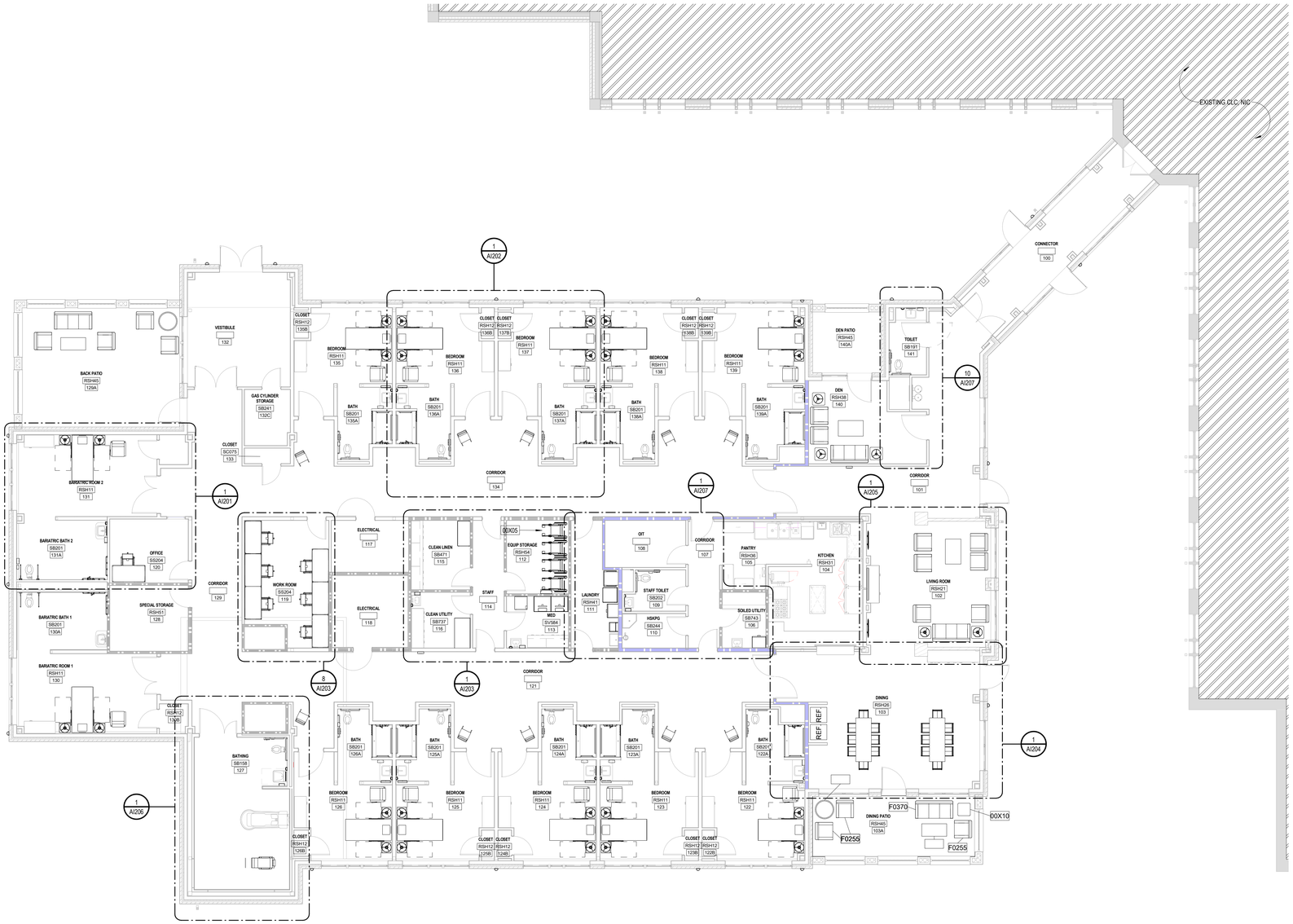
G. KITCHEN EQUIPMENT NOT INCLUDED THIS SHEET, SEE KITCHEN EQUIPMENT DRAWINGS.

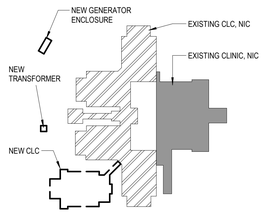
EQUIPMENT SCHEDULE COMMENTS

1. FOR KITCHEN EQUIPMENT REFER TO THE VENDOR DRAWINGS PROVIDED IN THE SET.

EQUIPMENT SCHEDULE

MARK	DESCRIPTION	FFE FURNISHED
CC		
00X13	SPEED QUEEN WASHER TC5003WN	CC
00X104	MEDICINE CABINET	CC
A1201	CEILING MOUNTED PATIENT LIFT	CC
A5135	SHELF w/ROD, UTILITY	CC
A5161	SHELF, UTILITY	CC
A5170	ROD, SHOWER CURTAIN	CC
K4500	STOVETOP, 4 BURNER	CC
P2450	VALVE, MIXING	CC
P3100	LAVATORY, CHINA	CC
P4700	SINK, MOP	CC
P6505	SINK, LAUNDRY	CC
VC		
A5075	DISPENSER, SOAP	VC
A5076	DISPENSER, HAND SANITIZER	VC
VV		
00X01	DESK	VV
00X02	LAMP, TABLE	VV
00X03	CHAIR	VV
00X04	TABLE	VV
00X05	WHEELCHAIR	VV
00X06	CHAIR, DINING	VV
00X07	REFRIGERATOR	VV
00X08	DINING TABLE	VV
00X09	FLAT SCREEN TELEVISION	VV
00X10	ACCENT TABLE	VV
00X11	COFFEE TABLE	VV
A5106	SHARPS, w/GLOVES	VV
A5107	DISPENSER, GLOVES	VV
F0225	CHAIR, DINING	VV
F0255	CHAIR, EASY	VV
F0265	CHAIR, RECLINER	VV
F0280	CHAIR, SWIVEL	VV
F0321	CHAIR, SALON	VV
F0370	SOFA, 3 SEAT	VV
F0400	CABINET, BEDSIDE	VV
F0515	LINEN SUPPLY CART	VV
F0710	TABLE, COMPUTER	VV
F0736	TABLE, COFFEE	VV
F0740	TABLE, LAMP	VV
F1000	TABLE, DINING	VV
F2010	WASTEPAPER, STEP-ON	VV
F2015	BASKET, WASTEAPER	VV
F2406	BED, RESIDENT	VV
M0430	DVD PLAYER	VV
M1801	COMPUTER, FLAT	VV
M2050	SHELVING, STORAGE, WIRE	VV
M2055	SHELVING, STORAGE, WIRE	VV
M2400	SPEED QUEEN DRYER DC5003WE	VV
M3072	FRAME, INFECTIOUS WAST BAG w/LID	VV
M3150	PYXIS MEDSTATION ES	VV
R1000	REFRIDGERATOR, PANTRY	VV
R3000	REFRIGERATOR, FRENCH DOOR	VV
RB200	FOLLETT REF5 PERFORMANCE PLUS U/C REFRIGERATOR	VV





KEY PLAN

1 QH101 FIRST FLOOR EQUIPMENT PLAN
SCALE: 1/8" = 1'-0"

Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: EQUIPMENT FLOOR PLAN AND SCHEDULE	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 / Checked: TC / Drawn: BA	Drawing Number: QH101

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GENERAL ENVIRONMENTAL NOTES

1. GENERAL CONTRACTOR TO PROVIDE SMOOTH AND LEVEL FLOORS BELOW ALL KITCHEN EQUIPMENT UNLESS THESE DRAWINGS SHOW OTHERWISE. FLOORS SHALL BE IMPERVIOUS TO WATER, GREASE, AND ACID AND OF EASILY CLEANABLE CONSTRUCTION. FLOORS IN ALL AREAS WHERE FOOD IS PREPARED, PACKAGED OR STORED OR WHERE REFUSE OR GARBAGE IS STORED, JANITORIAL FACILITIES AND IN ALL TOILET AND HAND WASHING AREAS, SHALL BE AN APPROVED TYPE THAT CONTINUES UP THE WALL 6" WITH A MINIMUM 3/8" RADIUS COVE BASE.
2. GENERAL CONTRACTOR TO PROVIDE SMOOTH AND NON-ABSORBENT WALLS IN ALL FOOD PREPARATION AND DISHWASHING AREAS. WALLS TO BE PROVIDED WITH A LIGHT COLORED, EASILY CLEANABLE FINISH. ALL PAINTED SURFACES SHALL BE SEALED WITH A GLOSS OR SEMI-GLOSS ENAMEL. ALL WALLS WITHIN A.G.A. CLEARANCE REQUIREMENTS FOR COOKING EQUIPMENT SHALL BE CONSTRUCTED OF HEAT PROOF, NON-COMBUSTIBLE MATERIALS. GENERAL CONTRACTOR TO VERIFY CONSTRUCTION PER LOCAL CODES.
3. GENERAL CONTRACTOR TO PROVIDE SMOOTH AND NON-ABSORBENT CEILINGS IN ALL FOOD PREPARATION AND DISHWASHING AREAS. CEILINGS TO BE PROVIDED WITH A LIGHT COLORED, EASILY CLEANABLE FINISH. ALL PAINTED SURFACES SHALL BE SEALED WITH A GLOSS OR SEMI-GLOSS FINISH.
4. IN EVERY ROOM AND AREA WHICH FOOD IS PREPARED, MANUFACTURED, PROCESSED OR PACKAGED, OR IN WHICH UTENSILS ARE CLEANED, LIGHTING SHALL BE PROVIDED TO PRODUCE INTENSITY OF NOT LESS THAN 70 FOOTCANDLES AS MEASURED THIRTY INCHES (30") ABOVE THE FLOOR. FOOD AND UTENSIL STORAGE ROOMS, REFRIGERATION STORAGE, TOILET AND DRESSING ROOMS SHALL BE PROVIDED WITH AT LEAST 50 FOOTCANDLES OF LIGHT. LIGHT FIXTURES IN AREAS WHERE FOOD IS PREPARED, OR WHERE OPEN FOOD IS STORED, OR WHERE UTENSILS ARE CLEANED, SHALL BE OF SHATTERPROOF CONSTRUCTION OR SHALL BE PROTECTED WITH SHATTERPROOF SHIELDS AND SHALL BE READILY CLEANABLE.
5. ALL DELIVERY DOORS LEADING TO THE OUTSIDE SHALL OPEN OUTWARD, BE SELF CLOSING, AND SHALL BE PROVIDED WITH AN OVERHEAD AIR CURTAIN. AIR CURTAIN SHALL PRODUCE A DOWNWARD AND OUTWARD AIRFLOW NOT LESS THAN 3" THICK AT THE NOZZLE WITH AN AIR VELOCITY OF NOT LESS THAN 1600 FPM ACROSS ENTIRE OPENING.
6. TOILET FACILITIES SHALL BE PROVIDED WITHIN EACH FOOD ESTABLISHMENT CONVENIENT FOR THE EMPLOYEES. ALL TOILET ROOMS SHALL BE PROVIDED WITH MECHANICAL VENTILATION APPROVED BY THE HEALTH DEPARTMENT. A ROOM ON ENCLOSURE AT LEAST 5' X 5', SEPARATED FROM TOILETS, FOOD STORAGE OR FOOD PREP AREAS SHALL BE PROVIDED WHERE EMPLOYEES MAY CHANGE AND STORE THEIR CLOTHES AND PERSONAL BELONGINGS.
7. LAVATORY SINKS SHALL BE PROVIDED IN ALL FOOD PREPARATION AND DISHWASHING AREAS. SOAP AND SANITARY TOWELS SHALL BE PROVIDED IN SINGLE SERVICE, PERMANENTLY INSTALLED, DISPENSERS AT THE LAVATORY SINKS.
8. GENERAL CONTRACTOR TO BE RESPONSIBLE FOR ADA CLEARANCE REQUIREMENTS FOR ALL SPACES, DOOR STRIKES, EXITS, AND AISLE WAYS AS THEY PERTAIN TO CODE ENFORCEMENT AND INTERPRETATION.
9. ALL WORK SHALL CONFORM TO LOCAL BUILDING, SAFETY, FIRE, AND HEALTH REGULATIONS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LICENSES AND BUILDING REQUIREMENTS, PAYING FEES, AND PASSING INSPECTION. IT IS HIS RESPONSIBILITY TO VERIFY ALL NECESSARY CODES AND REQUIREMENTS PRIOR TO IMPLEMENTATION.
10. ALL PUBLIC USE AREAS ARE TO BE PROVIDED WITH HEATED AND REFRIGERATED CONDITIONING DESIGNED TO PROVIDE A POSITIVE PRESSURE AT OUTSIDE DOORS. (PROVIDED AND INSTALLED BY HVAC CONTRACTOR.)
11. INTENDED ENVIRONMENT FOR REFRIGERATED GLASS FRONT & OPEN FRONT DISPLAY CASES TO BE 75°F/55% RELATIVE HUMIDITY.

GENERAL DRAWING SET NOTES

1. THESE DRAWINGS HAVE BEEN PRODUCED USING A GENERAL ARRANGEMENT OF EQUIPMENT FROM ONLY THE INFORMATION THAT WAS MADE AVAILABLE. THESE DRAWINGS ARE INFORMATION BY NATURE FOR BIDDING PURPOSES ONLY AND ARE NOT TO BE USED IN ANY WAY FOR CONSTRUCTION. REITANO DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF MEASUREMENTS TAKEN FROM THESE DRAWINGS. FABRICATORS, CONTRACTORS AND OTHER PARTIES UTILIZING THESE PLANS, IN CONNECTION WITH THIS JOB, ARE RESPONSIBLE FOR SECURING THEIR OWN MEASUREMENTS.
2. THE KITCHEN EQUIPMENT CONTRACTOR IS RESPONSIBLE TO REVIEW THE PLANS FOR ACCURACY AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO THE FABRICATION OF ANY EQUIPMENT. VERIFY ALL EQUIPMENT CLEARANCES THRU BUILDING DOORS, HALLWAYS OR ENTRY POINTS AS NOT ALL EQUIPMENT WILL FIT THRU STANDARD OPENINGS. THE KITCHEN EQUIPMENT CONTRACTOR IS TO NOTIFY REITANO DESIGN GROUP OF ANY ERRORS, OMISSIONS, AMBIGUITIES, DISCREPANCIES OR IRREGULARITIES PRIOR TO START OF CONSTRUCTION.
3. THESE DRAWINGS AND ACCOMPANYING SPECIFICATIONS MUST BE CONSIDERED A COMPLETE BODY OF WORK. ALL WORK IS TO BE COMPLETED IN A CRAFTSMAN LIKE MANNER AND CONFORM TO ALL APPLICABLE BUILDING AND SAFETY CODES. ANY WORK CALLED FOR IN THE DRAWINGS OR SPECIFICATIONS, INCLUDING ANY WORK THAT CAN REASONABLY BE CONSIDERED APART OF INSTALLATION AND NECESSARY TO COMPLETE THE PROJECT, SHALL BE INCLUDED.
4. ANY DISCREPANCIES BETWEEN THESE DRAWINGS, BUILDING AND LOCAL CODE REQUIREMENTS THAT MAY AFFECT INSTALLATION, FABRICATION AND/OR OVERALL WORK IN ANY WAY SHALL BE BROUGHT TO THE ATTENTION OF REITANO DESIGN GROUP. REITANO DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR ANY CHANGES MADE NECESSARY BY THE LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS OR CHANGES MADE NECESSARY IN EQUIPMENT SHOWN ON THESE DRAWINGS.
5. THESE DRAWINGS REFER TO WORK TO BE PERFORMED BY OTHER TRADES NOT INTENDED TO BE PART OF THE KITCHEN EQUIPMENT CONTRACTOR'S SCOPE OF WORK. THESE TRADES ARE REFERENCED USING THE GENERALLY ACCEPTED TITLES FOUND IN THE ABBREVIATION LEGEND. IT IS NOT THE INTENT OF THESE TITLES TO ASSIGN WORK, BUT RATHER TO CLARIFY COORDINATION BETWEEN THE KITCHEN EQUIPMENT CONTRACTOR AND OTHER TRADES. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL NOTES ON THESE DRAWINGS AND TRANSMITTING THE REQUIRED INFORMATION TO THE RESPECTIVE SUBCONTRACTORS.
6. THE BASIS OF DESIGN FOR ALL DRAWINGS, SPECIFICATIONS, AND DETAIL REFERENCES IS THE FIRST MANUFACTURER AND MODEL LISTED. IF ANOTHER LISTED MANUFACTURER IS CHOSEN BY THE KITCHEN EQUIPMENT CONTRACTOR, IT IS THE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE A MODEL THAT IS EQUAL IN PRODUCTION CAPABILITIES, CAPACITY, AND PERFORMANCE TO THE FIRST MANUFACTURER AND MODEL LISTED. THE KITCHEN EQUIPMENT CONTRACTOR IS ALSO TO VERIFY, COORDINATE, AND ALLOW FOR PROPER INSTALLATION OF EQUIPMENT; TAKING INTO ACCOUNT POSSIBLE REVISIONS FOR UTILITY CONNECTIONS, LOADS, AND PHYSICAL SIZES. IN THE EVENT THERE ARE ANY UP CHARGES OR CHANGE ORDERS BY OTHER TRADES AS A RESULT OF THE KITCHEN EQUIPMENT CONTRACTOR SUBMITTING ANOTHER LISTED MANUFACTURER, THOSE CHARGES SHALL BE THE SOLE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR.
7. THE CONCEPTS, DESIGNS, PLANS, DETAILS, ETC. SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF REITANO DESIGN GROUP, AND WERE CREATED FOR USE ON THIS SPECIFIC PROJECT. NONE OF THIS INFORMATION SHALL BE USED BY ANY PERSON OR FIRM FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF REITANO DESIGN GROUP. THE OWNER MAY RETAIN COPIES FOR INFORMATION AND REFERENCE IN CONNECTION ONLY WITH THIS PROJECT.

GENERAL EQUIPMENT NOTES

1. EQUIPMENT WHICH IS FIXED AND WHERE IT ABUTTS OTHER FIXED EQUIPMENT, BUILDING WALLS OR FLOOR SHALL BE SEALED THERETO WITH SILICONE. GAPS BETWEEN EQUIPMENT EXCEEDING 1/4" IN WIDTH MUST BE TRIMMED OUT WITH STAINLESS STEEL OR MATCHING TRIM PRIOR TO BEING SEALED.
2. HOT WATER SUPPLY TO ALL FOOD PREPARATION AND THREE COMPARTMENT SINKS SHALL BE 120 DEGREES MAXIMUM. HOT WATER SUPPLY TO ALL DISHMACHINES SHALL BE 120 DEGREES MINIMUM.
3. ALL COUNTERS ARE TO BE FABRICATED PROPERLY TO SUPPORT THE SPECIFIED COUNTERTOP MATERIAL IN ACCORDANCE WITH THE MATERIAL MANUFACTURER'S GUIDELINES. ALL "DROP-IN" EQUIPMENT AND OTHER EQUIPMENT "ATTACHED TO", "SET ON" OR "BUILT-IN" TO THE COUNTER TOP MATERIAL TO BE INSTALLED IN ACCORDANCE WITH THE MATERIAL MANUFACTURER'S GUIDELINES AND TECHNICAL BULLETINS FOR THE INSTALLATION OF COMMERCIAL FOOD SERVICE EQUIPMENT.
4. ALL FOOD SERVICE EQUIPMENT SHALL BE MANUFACTURED , FABRICATED, FURNISHED & INSTALLED IN STRICT ACCORDANCE WITH, AND BEAR THE EMBLEM OF, THE NATIONAL SANITATION FOUNDATION (NSF) AS WELL AS ANY FEDERAL, STATE & LOCAL CODE REQUIREMENTS.
5. ALL REFRIGERATION EQUIPMENT SHALL HAVE A THERMOMETER WHICH IS EASILY READABLE IN PROPER WORKING CONDITION.

REITANO DESIGN GROUP

FOODSERVICE SHEET INDEX

SHEET	DRAWING NAME
K100	FOODSERVICE GENERAL NOTES & SHEET INDEX
K101	FOODSERVICE LAYOUT
K103	FOODSERVICE SPECIAL CONDITIONS LAYOUT
K200	FOODSERVICE EQUIPMENT SCHEDULE
K300	FOODSERVICE PLUMBING LAYOUT
K301	FOODSERVICE ELECTRICAL LAYOUT
K500	EXHAUST HOOD SYSTEM DETAILS
K600	FOODSERVICE DETAILS, ELEVATIONS & SECTIONS

GENERAL SYMBOL LEGEND

1	EQUIPMENT ITEM NUMBER
K101	ENLARGED PLAN CALL OUT
A / K600	EQUIPMENT ELEVATION CALL OUT
1 / K600	EQUIPMENT DETAIL CALL OUT
1 / K600	EQUIPMENT SECTION CALL OUT
1	SPOT LOCATION CALL OUT

ABBREVIATION LEGEND

AFF	ABOVE FINISHED FLOOR	MD	MECHANICAL DIVISION
AGA	AMERICAN GAS ASSOCIATION	MECH	MECHANICAL
A	AMPERAGE	MFG	MANUFACTURER
ARCH	ARCHITECTURAL	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BTU	BRITISH THERMAL UNIT	NIKEC	NOT IN KITCHEN EQUIPMENT CONTRACT
CLG	CEILING	NTS	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
CONN	CONNECTION	OD	OUTSIDE DIAMETER
CONST	CONSTRUCTION	PC	PLUMBING CONTRACTOR
CW	COLD WATER	PD	PLUMBING DIVISION
DCO	DUPLEX CONVENIENCE OUTLET	PH	PHASE
DFA	DROP FROM ABOVE	PSI	POUNDS PER SQUARE INCH
DIM	DIMENSION	R	RADIUS
DWG	DRAWING	ST STL	STAINLESS STEEL
EC	ELECTRICAL CONTRACTOR	SHT	SHEET
ED	ELECTRICAL DIVISION	S/S	STAINLESS STEEL
ELEC	ELECTRIC, ELECTRICAL	STD	STANDARD
EXIST	EXISTING	SU	STUB UP FROM FLOOR
FD	FLOOR DRAIN	TYP	TYPICAL
FS	FLOOR SINK	V	VOLTAGE
GA	GAUGE		
GALV	GALVANIZED		
GC	GENERAL CONTRACTOR		
GD	GENERAL DIVISION		
GPH	GALLONS PER HOUR		
HP	HORSEPOWER		
HVAC	HEATING, VENTILATION & AIR CONDITIONING		
HW	HOT WATER		
ID	INSIDE DIAMETER		
KEC	KITCHEN EQUIPMENT CONTRACTOR		
KW	KILOWATT		
MAX	MAXIMUM		
MBTU	1,000 BTU'S		
MC	MECHANICAL CONTRACTOR		

Revisions:	Date:

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FCS FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL — SCOTT REITANO — 93081911 — PROFESSIONAL MEMBER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FOODSERVICE GENERAL NOTES & SHEET INDEX	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
			Building Number:
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Drawing Number: K100
		Issue Date: 12/16/2024 / Checked: CW / Drawn: BL	

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12/16/2024 11:50:03 AM

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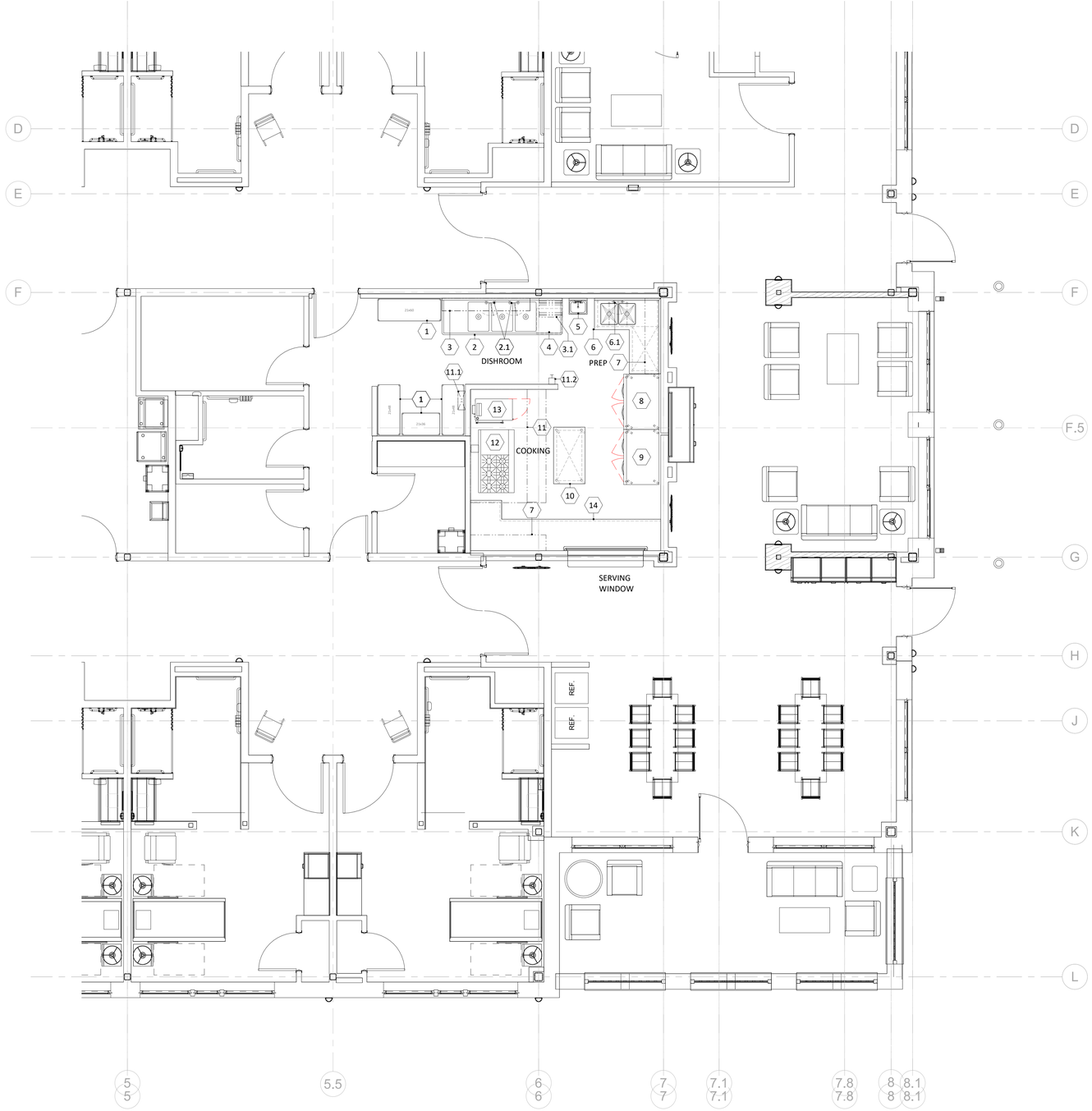

FOODSERVICE EQUIPMENT SCHEDULE		
ITEM #	QTY	DESCRIPTION
1	4	DRY STORAGE SHELVING UNIT
2	1	THREE COMPARTMENT SINK
2.1	2	SPLASH MOUNT FAUCET
3	2	WALL SHELF
3.1	1	SLANTED RACK SHELF
4	1	UNDERCOUNTER DISHMACHINE
5	1	WALL MOUNT HAND SINK
6	1	WORKTABLE W/ 2 COMP PREP SINK
6.1	1	DECK MOUNT FAUCET
7	2	WALL CABINET
8	1	TWO DOOR REACH-IN REFRIGERATOR
9	1	TWO DOOR REACH-IN FREEZER
10	1	MOBILE WORKTABLE
11	1	EXHAUST HOOD
11.1	1	FIRE SUPPRESSION SYSTEM
11.2	1	FIRE PULL BOX
12	1	RANGE
13	1	COMBI OVEN
14	1	SERVING COUNTER

NOTE : ALL KITCHEN EQUIPMENT TO BE OWNER FURNISHED AND OWNER INSTALLED

1 K101 **FOODSERVICE LAYOUT - RESIDENTIAL KITCHEN**
SCALE: 1/4" = 1'-0"

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FOODSERVICE LAYOUT	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 / Checked: CW / Drawn: BL	Drawing Number: K101

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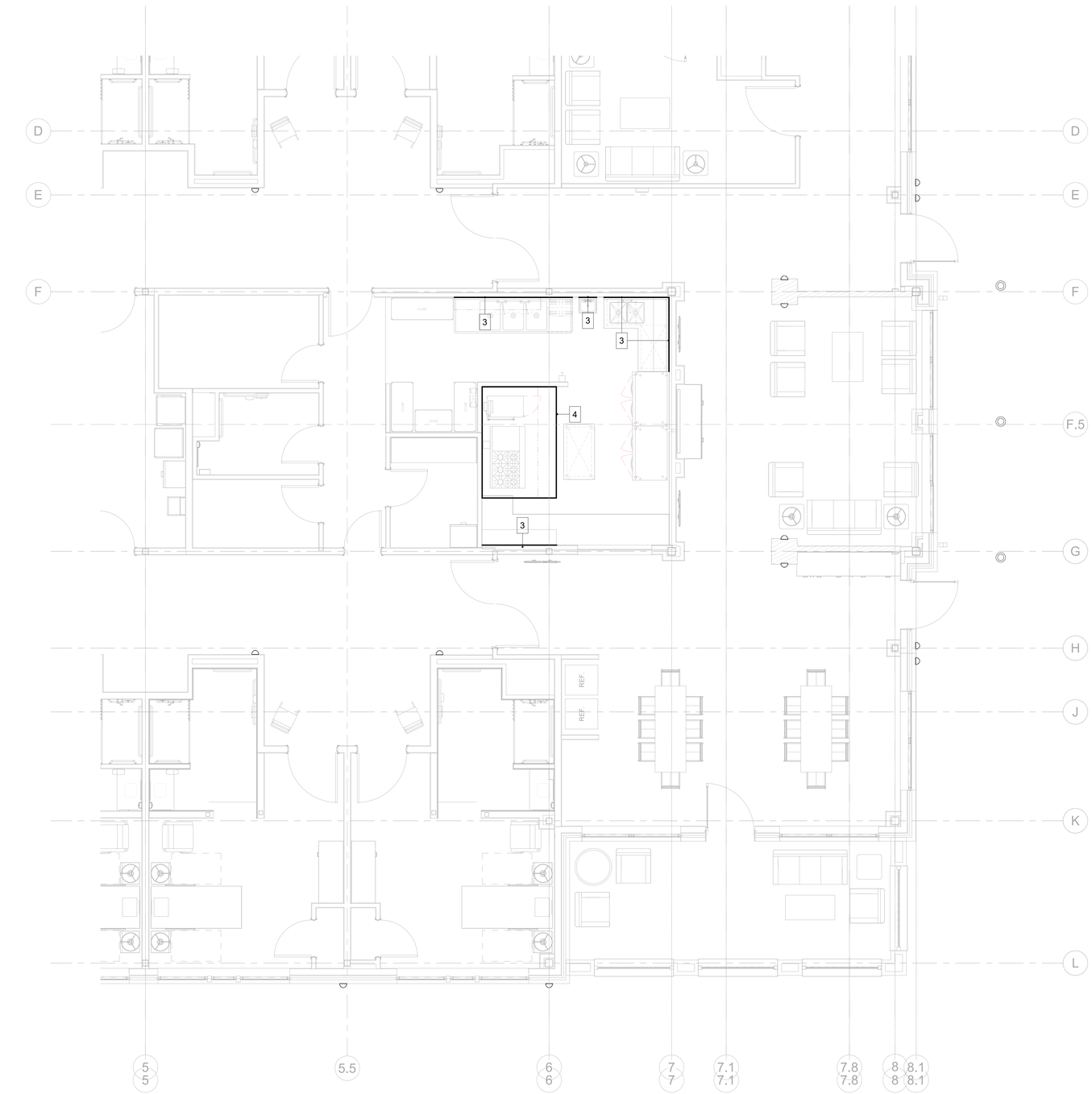

1 K103 FOODSERVICE SPECIAL CONDITIONS LAYOUT - RESIDENTIAL KITCHEN
SCALE: 1/4" = 1'-0"

SPECIAL CONDITIONS LAYOUT NOTES

1. NOT IN USE
2. NOT IN USE
3. (BY GENERAL DIVISION) PROPERLY REINFORCE ALL WALLS AND/OR CEILINGS TO SUPPORT ALL WALL AND/OR CEILING SUPPORTED EQUIPMENT. ALL WALL BLOCKING TO BE MINIMUM 3/4" MARINE GRADE PLYWOOD. WALL BLOCKING LENGTHS SHOWN ARE MINIMUM AND WALL BLOCKING SHALL ALWAYS EXTEND TO NEXT STUD OVER IN EACH DIRECTION.
4. (BY GENERAL DIVISION) PROVIDE BOX OUT IN CEILING GRID LAYOUT FOR EXHAUST SYSTEM HOODS AS SHOWN. (REFER TO EXHAUST VENTILATION SYSTEM DRAWINGS FOR MORE INFORMATION)
5. NOT IN USE
6. NOT IN USE
7. NOT IN USE

Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: FOODSERVICE SPECIAL CONDITIONS LAYOUT	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 / Checked: CW / Drawn: BL	Drawing Number: K103

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EQUIPMENT / MECHANICAL / ELECTRICAL

ITEM NUMBER	QUANTITY	DESCRIPTION	MECHANICAL: HOT WATER	COLD WATER	AFF	GAS: CONN. SIZE	GAS: MBTU	GAS: AFF	WASTE	AFF	REMARKS	ELECTRICAL: ITEM NUMBER	VOLTAGE	PHASE	AMPS	KW	HP	CONN.	AFF	REMARKS
1	4	DRY STORAGE SHELVING UNIT										1								
2	1	THREE COMPARTMENT SINK							2.00	FS	DRAIN TO FLOOR SINK. DRAIN TO 2" DIRECT WASTE PER LOCAL CODE	2								
2.1	2	SPLASH MOUNT FAUCET	0.75	0.75	14							2.1								
3	2	WALL SHELF										3								
3.1	1	SLANTED RACK SHELF										3.1								
4	1	UNDERCOUNTER DISHMACHINE		0.75	14				1.50	FS	DRAIN TO FLOOR SINK	4	208	3	24.9			D	16	
5	1	WALL MOUNT HAND SINK	0.50	0.50	24				1.50	21		5	120	1	3.00			P	16	NEMA 5-15P
6	1	WORKTABLE W/ 2 COMP PREP SINK							2.00	FS	DRAIN TO FLOOR SINK	6								
6.1	1	DECK MOUNT FAUCET	0.50	0.50	14							6.1								
7	2	WALL CABINET										7								
8	1	TWO DOOR REACH-IN REFRIGERATOR										8	120	1	5.90			P	78	NEMA 5-15P
9	1	TWO DOOR REACH-IN FREEZER										9	120	1	9.40			P	78	NEMA 5-15P
10	1	MOBILE WORKTABLE										10								
11	1	EXHAUST HOOD										11	120	1	16.0			D	DFA	FOR HOOD LIGHTS AND CONTROLS TO JUNCTION BOX ON TOP OF HOOD. SEE K500 SHEETS FOR ADDITIONAL INFO.
11.1	1	FIRE SUPPRESSION SYSTEM										11.1								
11.2	1	FIRE PULL BOX										11.2								
12	1	RANGE				1.00	268	36				12	120	1	4.00			P	36	NEMA 5-15P
13	1	COMBI OVEN		0.75	36				2.00	FS	COMBI OVEN HAS TWO CW INLETS. DIVIDE CW USING MANIFOLD AND EXTEND ONE LINE THRU WATER FILTER.	13	208	3	16.1			D	36	
14	1	SERVING COUNTER										14								

CONVENIENCE FIXTURE SCHEDULE

MARK	QUANTITY	DESCRIPTION	VOLTAGE	PHASE	AMPS	AFF	REMARKS
DR1	1	DUPLEX CONVENIENCE RECEPTACLE	120	1	16.0	16	
DR2	6	DUPLEX CONVENIENCE RECEPTACLE	120	1	16.0	48	FURNISH HORIZONTAL RECEPTACLE WHEN MOUNTED ABOVE COUNTERTOP

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Drawing Title	FOODSERVICE EQUIPMENT SCHEDULE
Phase	BID DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	Construct TDVV CLC 12 Beds
Location	180 MARTIN DR, CARROLLTON, GA 30117
Issue Date	12/16/2024
Checked	CW
Drawn	BL
Project Number	508-349
Building Number	
Drawing Number	K200

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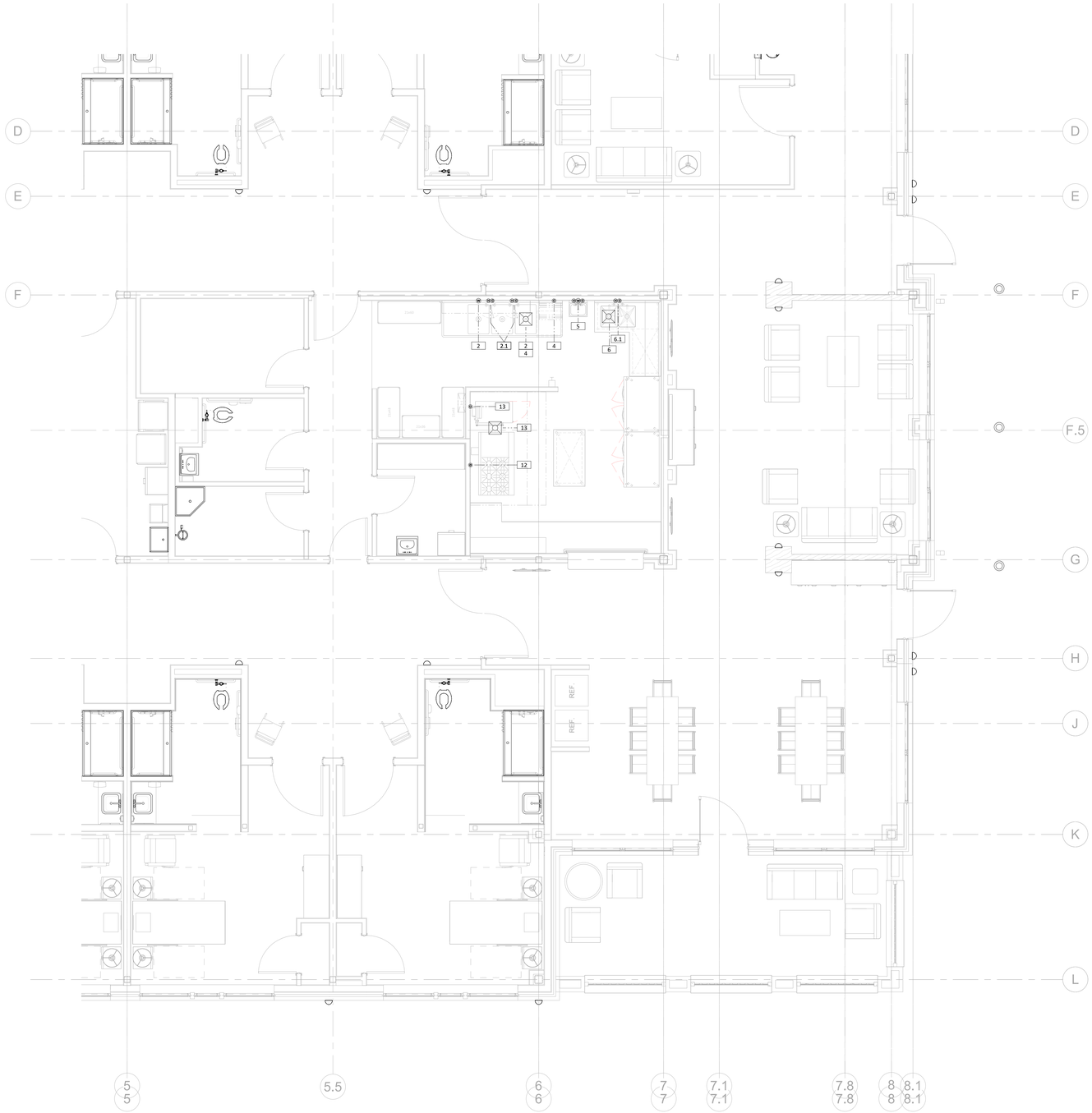

1 K300 **FOODSERVICE PLUMBING LAYOUT - RESIDENTIAL KITCHEN**
SCALE: 1/4" = 1'-0"

PLUMBING LEGEND

Ⓗ	SINGLE HOT WATER CONNECTION
Ⓒ	SINGLE COLD WATER CONNECTION
ⒽⒸ	HOT & COLD WATER CONNECTION
Ⓦ	DIRECT WASTE CONNECTION
◯	INDIRECT FLOOR DRAIN
▣	INDIRECT 12"x12" FLOOR SINK
▣	INDIRECT 12"x12" FLOOR SINK WITH HALF GRATE
Ⓖ	GAS CONNECTION
⬡	REFER TO SHEET K400 OR K500 FOR MORE INFORMATION ON THIS EQUIPMENT

PLUMBING NOTES

1. FOODSERVICE SPOT LOCATION SCHEDULES & DRAWINGS ARE FOR REFERENCE AND BIDDING PURPOSES, TO BE USED ONLY AS A GUIDE FOR FOOD SERVICE EQUIPMENT ELECTRICAL, PLUMBING & VENTILATION SPOT LOCATIONS AND ARE NOT APPROVED FOR USE ON THE JOBSITE FOR ROUGH-IN PURPOSES. THE KITCHEN EQUIPMENT CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING HIS/HER OWN ROUGH-IN SCHEDULES & DRAWINGS SHOWING ACCURATE LOCATIONS FOR UTILITIES AND WORK TO BE INSTALLED IN ACCORDANCE WITH ALL FEDERAL, STATE & LOCAL CODES.
2. ALL SPOT LOCATIONS SHOWN ON THESE DRAWINGS ARE SPECIFIC TO THE EQUIPMENT SHOWN ON THE FOODSERVICE EQUIPMENT PLAN. REFER TO ARCHITECTURAL & PLUMBING DRAWING SETS FOR ADDITIONAL PLUMBING REQUIREMENTS NOT SHOWN.
3. ALL FLOOR AREAS IN THE KITCHEN & SERVING SPACE SHALL BE "TRANSIT LEVEL". DO NOT SLOPE FLOOR TO FLOOR DRAINS OR FLOOR SINKS IN THIS AREA.
4. PLUMBING DIVISION TO INSTALL ALL FAUCET ASSEMBLIES, PRE-RINSE SPRAY ASSEMBLIES, HOSE ASSEMBLIES, VACUUM BREAKERS, CHECK VALVES, FLOW CONTROL VALVES, SOLENOID VALVES, WATER PRESSURE REDUCING VALVES, GAS PRESSURE REDUCING VALVES, TEMPERATURE GAUGES, PRESSURE GAUGES, WATER HAMMER SHOCK ABSORBERS & WATER FILTRATION SYSTEMS FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR.
5. PLUMBING DIVISION TO FURNISH & INSTALL ALL WATER, GAS & STEAM SUPPLY LINES, DRAIN MANIFOLDS & TAILPIECES, TRAPS, SHUT-OFF VALVES, VENT PIPING, GAS SUPPLY LINE STRAINERS/FILTERS, BACK FLOW PREVENTION DEVICES, FLOOR DRAINS & FLOOR SINKS AS REQUIRED FOR EQUIPMENT INSTALLATION AND ANY CODE REQUIREMENTS. ALL SUPPLY LINES SERVICING EQUIPMENT ADJACENT TO AN EXTERIOR WALL ARE TO BE RAN ALONG INTERIOR FACE OF WALL TO AVOID POTENTIAL FREEZING.
6. PLUMBING DIVISION TO FURNISH & INSTALL STAINLESS STEEL OR CHROME PLATED BRASS ESCUTCHEONS OR FLANGES FOR UTILITY LINES WHICH EXTEND THROUGH BUILDING WALLS AND EQUIPMENT. ALL PENETRATIONS TO BE SEALED WATER-TIGHT AND VERMIN PROOF.
7. PLUMBING DIVISION TO FURNISH & INSTALL TYPE "L" COPPER TUBING DRAIN LINES FROM ALL APPLICABLE EQUIPMENT TO FLOOR SINKS, (INCLUDING WALK-IN COOLER AND FREEZER COILS) AND TO INSULATE ALL DRAIN LINES FROM ICE BINS, REFRIGERATION EQUIPMENT ETC.. MECHANICAL DIVISION TO INSTALL DRAIN LINES SO THEY DO NOT AFFECT UNDERCOUNTER STORAGE AND OTHER OPERATIONAL FUNCTIONS OF THE FIXTURES.
8. PLUMBING DIVISION TO FURNISH & INSTALL CHROME PLATED PIPING ON ALL EXPOSED PIPING ABOVE COUNTER HEIGHT OR IN "DIRECT" LINE OF SIGHT TO THE OWNER/OPERATOR.
9. PLUMBING DIVISION TO FURNISH & INSTALL ALL 12"x12"x8" FLOOR SINKS. FLOOR SINKS TO BE MOUNTED IN FLOOR SUCH THAT THE TOP OF THE RIM WILL BE FLUSH WITH FINISHED FLOOR ELEVATION UNLESS OTHERWISE DIRECTED BY STATE & LOCAL CODES. FLOOR SINKS FOR DISHMACHINES AND ALL COOKING EQUIPMENT TO HAVE A MINIMUM OF 3" DRAIN CONNECTION.
10. D.

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FOODSERVICE PLUMBING LAYOUT	Phase: BID DOCUMENTS	Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number
		Issue Date: 12/16/2024 / Checked: CW / Drawn: BL	Drawing Number: K300

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K301 FOODSERVICE ELECTRICAL LAYOUT - RESIDENTIAL KITCHEN
SCALE: 1/4" = 1'-0"

ELECTRICAL LEGEND

	120 VOLT ELECTRICAL CONNECTION
	208 VOLT ELECTRICAL CONNECTION
	120/208 VOLT ELECTRICAL CONNECTION
	480 VOLT ELECTRICAL CONNECTION
	120 VOLT ELECTRICAL CONNECTION - FIXTURE MOUNTED
	208 VOLT ELECTRICAL CONNECTION - FIXTURE MOUNTED
J	DIRECT CONNECTION ON WALL
J	DIRECT CONNECTION ON EQUIPMENT
	ELECTRICAL CONNECTION - STUB UP
	ELECTRICAL CONNECTION - DOWN FROM ABOVE
S	SWITCH
	DATA CONNECTION
	PIGTAIL FLEX CONNECTION
	REFER TO SHEET K400 OR K500
	FLOOR DUPLEX RECEPTACLE OUTLET
	DATA OUTLET IN FLOOR

ELECTRICAL NOTES

1. FOODSERVICE SPOT LOCATION SCHEDULES & DRAWINGS ARE FOR REFERENCE AND BIDDING PURPOSES, TO BE USED ONLY AS A GUIDE FOR FOOD SERVICE EQUIPMENT ELECTRICAL, PLUMBING & VENTILATION SPOT LOCATIONS AND ARE NOT APPROVED FOR USE ON THE JOBSITE FOR ROUGH-IN PURPOSES. THE KITCHEN EQUIPMENT CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING HIS/HER OWN ROUGH-IN SCHEDULES & DRAWINGS SHOWING ACCURATE LOCATIONS FOR UTILITIES AND WORK TO BE INSTALLED IN ACCORDANCE WITH ALL FEDERAL, STATE & LOCAL CODES.
2. ALL SPOT LOCATIONS SHOWN ON THESE DRAWINGS ARE SPECIFIC TO THE EQUIPMENT SHOWN ON THE FOODSERVICE EQUIPMENT PLAN. REFER TO ARCHITECTURAL & ELECTRICAL DRAWING SETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS NOT SHOWN.
3. ELECTRICAL AMPERAGE NOTED IN SCHEDULE INDICATES AMP "DRAW" & NOT CIRCUIT BREAKER SIZE UNLESS OTHERWISE NOTED. ELECTRICAL DIVISION IS RESPONSIBLE FOR PROPER CIRCUIT BREAKER SIZING
4. ELECTRICAL DIVISION TO VERIFY ALL FOODSERVICE EQUIPMENT WITH DIRECT ELECTRICAL CONNECTION TO BE IN LINE OF SIGHT OF KITCHEN ELECTRICAL DISTRIBUTION PANEL, AND IF NOT, ELECTRICAL DIVISION TO FURNISH & INSTALL A FUSED QUICK DISCONNECT ADJACENT TO EQUIPMENT.
5. ELECTRICAL DIVISION TO INSTALL ALL CONTROL PANELS, STARTERS, SOLENOID VALVES, JUNCTION BOXES & DISCONNECT SWITCHES FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR.
6. ELECTRICAL DIVISION TO FURNISH & INSTALL ALL WIRING, ELECTRICAL OUTLETS, STARTERS, JUNCTION BOXES, DISCONNECT SWITCHES & CONDUIT REQUIRED FOR EQUIPMENT INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS & ELECTRICAL CODE REQUIREMENTS. ELECTRICAL RECEPTACLES TO BE FLUSH MOUNTED UNLESS OTHERWISE NOTED.
7. ELECTRICAL DIVISION TO FURNISH & INSTALL GROUNDING WIRE TO ALL FOOD SERVICE EQUIPMENT IN ADDITION TO THE NUMBER OF WIRES NOTED IN INDIVIDUAL SERVICES.
8. ELECTRICAL DIVISION TO FURNISH & INSTALL GROUND FAULT PROTECTION FOR ANY RECEPTACLE WITHIN THE KITCHEN & SERVING AREAS.
9. ELECTRICAL DIVISION TO FURNISH & INSTALL SHUNT TRIP BREAKERS FOR ALL ELECTRICAL SERVICE TO EQUIPMENT UNDER EXHAUST HOODS WHEN FIRE SUPPRESSION SYSTEM IS REQUIRED.
10. ELECTRICAL DIVISION TO FURNISH 6'-0" PIGTAIL FLEX CONDUIT AT ALL DIRECT CONNECTION STUB-OUTS AND EXTEND TO FINAL CONNECTION ON EQUIPMENT. ELECTRICAL DIVISION TO PROVIDE CAPS AND CORDS FOR ALL ITEMS WHICH USE CONVENIENCE OUTLETS WHEN NOT SUPPLIED BY THE MANUFACTURER AND SHORTEN ANY CORDS IF NECESSARY.

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	FOODSERVICE ELECTRICAL LAYOUT
Phase	BID DOCUMENTS
Project Title	Construct TDVV CLC 12 Beds
Project Number	508-349
Building Number	
Approved:	
	FULLY SPRINKLERED
Location	180 MARTIN DR, CARROLLTON, GA 30117
Issue Date	12/16/2024
Checked	CW
Drawn	BL
Drawing Number	K301

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VA FORM 08 - 6231

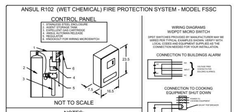
FIRE SYSTEM INFORMATION

MARK	MODEL	LOCATION	FLOW POINTS		SUPPLY LINE	DETECTION	MARK(S) PROTECTED BY FIRE SYSTEM
			HOODS	PCU			
11 - ANSUL	ANSUL R-102 WET CHEMICAL	WALL CABINET – ON ITEM 11- HOOD	8 UTILIZED 11 AVAILABLE		CONTINUOUS	FUSIBLE LINK	ITEM 11- HOOD SECTION 1

FIRE SYSTEM OPTIONS AND ACCESSORIES

FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL)
CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED
METAL BLOW-OFF CAPS - INCLUDED
GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE, 2", (ANSUL) - PART# ANSULMECH/SHUTOFF/VALVE200
HOOD SUPPRESSION TANK - INCLUDED - 3 GAL - [1] 3.0 TANK[S]
REMOTE PULL STATION - STANDARD - FIELD INSTALLATION AT SINGLE POINT OF EGRESS

ANSUL R102 (WET CHEMICAL) FIRE PROTECTION SYSTEM - MODEL FSSC



WIRING DIAGRAMS
SUSPECT MICRO SWITCH
(PRE SWITCHES PROVIDE SP MANUFACTURER MAY BE USED AS LONG AS THEY MEET THE FOLLOWING CONDITIONS AND ARE APPROVED BY AMERICAN DE CONTACTS RATED FOR 24 VDC MINIMUM
CONNECTION TO BUILDING ALARM
CONNECTION TO COOKING EQUIPMENT SHUT DOWN
CONNECTION TO FAN SHUT DOWN

NOTES:
WET CHEMICAL FIRE PROTECTION SYSTEM TO BE ANSUL R-102, DESIGNED IN ACCORDANCE WITH ITS INSTRUCTION MANUAL.
THE QUANTITY AND LOCATION OF NOZZLES REQUIRED FOR ALL FUEL PACKAGE PROTECTION SYSTEMS, MODEL AND LOCATION OF ALL FIRE SYSTEM PIPING IS STANDARDIZED TO THE RIGHT END OF THE HOOD AND ALL PIPING TO BE RUN ON THE TOP OF HOOD.
ANSUL AUTOMAN INCLUDE TO BE LOCATED WITHIN MY OF HOOD.
THE BASIC FIRE SYSTEM WILL INCLUDE THE FOLLOWING:
ONE (1) 3 GALLON TANK, ONE (1) 2" STAINLESS STEEL MANUFACTURER LIP TO 2" DIAMETER AS STANDARD), ADD INSTALLED BY A LICENSED PLUMBER.
ONE (1) 2" MECHANICAL GAS VALVE (ANSUL) - PART# ANSULMECH/SHUTOFF/VALVE200 BUT NOT LIMITED TO BUILDING ALARM SYSTEMS, EXHAUST AND SUPPLY FANS, GAS VALVES, ELECTRICAL POWER, ETC. ALL WIRING AND CONNECTIONS TO BE PERFORMED BY A LICENSED ELECTRICIAN.
THE BASIC FIRE SYSTEM DOES NOT INCLUDE THE FOLLOWING:
DUCT, DUMP TEST OVER THAN NOT IS SPECIFICALLY SEE THE INSTALLATION
ANY ELECTRICAL WORK REQUIRED FOR THE FIRE SUPPRESSION SYSTEM EXCEPT AND NOT INCLUDED UNLESS NOTED UNDER THE EQUIPMENT SCHEDULE FOR THE HOOD.
MORE THEN TWO PIPES TO THE JOB(S) OR SPECIAL TRANSPORTATION, OR ANY OTHER EXPENSE INCURRED DUE TO REMOTE AREAS, NORMAL TRANSIT DISTANCE IS FIRST 50 MILES FROM NEAREST ANSUL DISTRIBUTOR.
INSTALLATION OF AN ADDITIONAL LABOR FOR ACCESS TO SECURITY SENSITIVE AREAS.
INSTALLATION OF GAS SHUT-OFF VALVE.
PERMITS, INSPECTIONS, OR FEES OF ANY KIND BY STATE OR LOCAL CODE PLAN EXAMINATION FEES, PE CERTS APPROVAL STAMP.
ANY ADDITIONAL EQUIPMENT OR LABOR NOT SPECIFICALLY INCLUDED REQUIRED FOR FINAL FIELD WORK-UP.
ANY ELECTRICAL OR MECHANICAL COMPONENTS/CONNECTIONS REQUIRED TO SHUT DOWN FANS, SHUT OFF DEVICE FOR ELECTRIC COOKING EQUIPMENT (SHUNT TRIP BREAKER, MAGNETIC CONTACTOR, ETC.) OR GAS VALVE (MECHANICAL OR ELECTRICAL).
ANY DISMANTLING OR REASSEMBLY REQUIRED TO GAIN ACCESS TO THE FIRE SUPPRESSION EQUIPMENT FOR INSPECTION OR SERVICE.
ANSUL/H-RIDER CONDUIT FOR REMOTE PULL STATION OR SAE VALVE
(FLUSH MOUNTED PULL STATION)
ANSUL/H-RIDER CONDUIT (SURFACE) - REMOTE PULL STATIONS OR OSTEHACS (INDUSTRIAL) SWITCH
(UNDER TANK) (FT OF RE)
ANY ELECTRICAL WORK REQUIRED TO CORRECT PIPING DUE TO COOKING EQUIPMENT CHANGES OR DEVIATION FROM PLANS. OR ANY CHANGES FOR ADDITIONAL EQUIPMENT/PARTS OTHER THEN THOSE INDICATED ON THE FIRE SUPPRESSION DETAIL.

NOTES:
1. DENOTES FIELD INSTALLATION.
2. DENOTES FACTORY INSTALLATION.
3. DO NOT USE BLUE WIRE ON SHAFT CONNECTION IN CONDUIT. USE ONLY RED, BLACK, YELLOW OR WHITE WIRE.
4. FOR ELECTRICAL SCHEMATIC DIAGRAM, SEE DRAWING 418356.

PROJECT TYPE/SIZE	VETERANS AFFAIRS-TVDD CLC	11 - ANSUL
VENDOR		

ACCUREX SOUTH CHEKY PA - 2870
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ACCUREX

HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING SURFACE DUTY RATING	EXHAUST(S)					SUPPLY		HANGING HEIGHT LBS	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S) WIDTH	LENGTH	DIA.	CFM	S.P.	MUA CFM	AC CFM	
1	ITEM 11- HOOD	XXEW-108-S	108	54	24	SS 10 16(R)	HEAVY	2025	10	18		2025	0.645	1620		359	SINGLE

HOOD INFORMATION

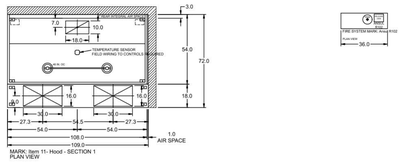
HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS		UTILITY CABINET(S)						
		FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL / MATERIAL	QTY	SIZE (IN.) L	H	LOCATION	FIRE SYSTEM TYPE	SIZE	MODEL	CONTROLS INTERFACE
1	ITEM 11- HOOD	ROUND LED	2	62.94	12"MAGNUM GREASE ARRESTOR INCL.) STAINLESS STEEL	3	16	20	WALL	ANSUL R102	3		

SUPPLY PLENUM INFORMATION

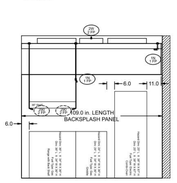
HOOD NO.	MARK	POS.	TYPE	SIZE (IN.) L	W	H	INSULATED	DAMPER(S)	LED LIGHT(S) SUPPLIED	QTY	TOTAL CFM	TOTAL S.P.	COLLARS TYPE	MOUNTING	QTY	W	L	DIA	CFM	VEL
1	ITEM 11- HOOD	FRONT	ASP	109	18	4	NO	YES	NO		1620	0.01	MUA	FACTORY	2	18	30		810	243

HOOD OPTIONS

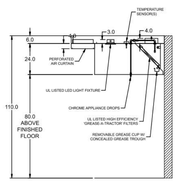
UL 710 LISTED 8W OUT EXHAUST FIRE DAMPER - UL #R25825
BACK INTEGRAL AIR SPACE - 3 IN WIDE
RIGHT NON-INTEGRAL AIR SPACE - 1 IN THICK - ZERO CLEARANCE
6 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED
FACTORY MOUNTED EXHAUST COLLAR(S)
WALL UTILITY CABINET 24 IN HIGH 36 IN LONG 12 IN WIDE
BACKSPLASH 80.00 IN HIGH 109.00 IN LONG
PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH



MARK: Item 11- Hood - SECTION 1
PLAN VIEW

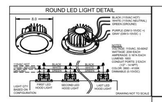


MARK: Item 11- Hood - SECTION 1
ELEVATION VIEW

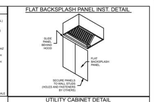


MARK: Item 11- Hood
SECTION VIEW

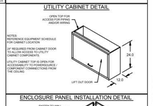
ROUND LED LIGHT DETAIL



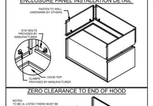
FLAT BACKSPLASH PANEL INST. DETAIL



UTILITY CABINET DETAIL



ENCLOSURE PANEL INSTALLATION DETAIL



ZERO CLEARANCE TO END OF HOOD

HOOD HANGING HEIGHT FOR FIRE SYSTEMS

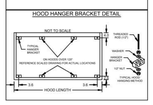
VERIFICATION OF HOOD HANGING HEIGHT ABOVE FINISHED FLOOR (A.F.F.) IS REQUIRED FOR CORRECT PLACEMENT OF FIRE SYSTEM NOZZLES.

☐ RECOMMENDED HANGING HEIGHT = 68" FROM FINISHED FLOOR TO LOWER FRONT EDGE OF HOOD.

☐ OTHER HANGING HEIGHT = ____" FROM FINISHED FLOOR TO LOWER EDGE OF HOOD.

SUPPLY PLENUM HANGER BRACKET DETAIL

HOOD HANGER BRACKET DETAIL

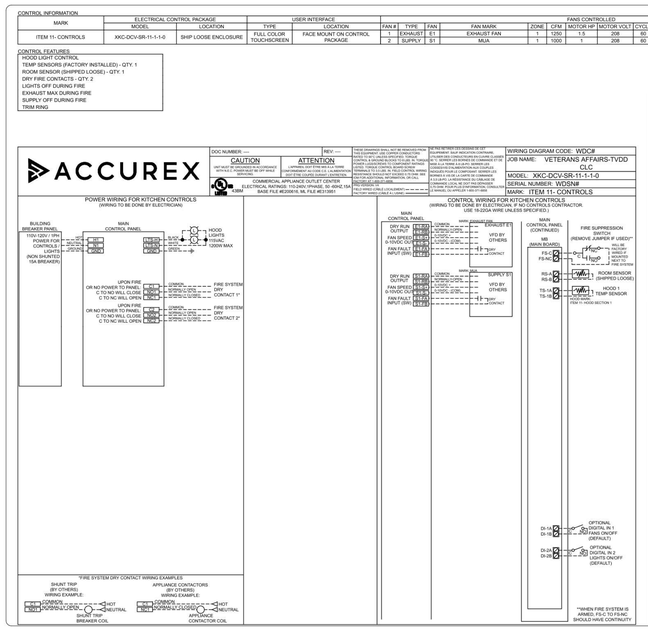


CONTROL INFORMATION

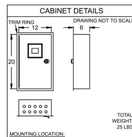
MARK	ELECTRICAL CONTROL PACKAGE		USER INTERFACE		FANS CONTROLLED											
	MODEL	LOCATION	TYPE	LOCATION	FAN #	TYPE	FAN	FAN MARK	ZONE	CFM	MOTOR HP	MOTOR VOLT	CYCLE	MOTOR PHASE	MOTOR STARTER IN PANEL	VFD IN PANEL
ITEM 11- CONTROLS	XKC-DCV-SR-11-1-1-0	SHIP LOOSE ENCLOSURE	FULL COLOR TOUCHSCREEN	FACE MOUNT ON CONTROL PACKAGE	1	EXHAUST	E1	EXHAUST FAN	1	1250	1.5	208	60	3	NO	NO
					2	SUPPLY	S1	MUA	1	1000	1	208	60	3	NO	NO

CONTROL FEATURES

HOOD LIGHT CONTROL
TEMP SENSORS (FACTORY INSTALLED) - QTY. 1
ROOM SENSOR (SHIPPED LOOSE) - QTY. 1
DRY FIRE CONTACTS - QTY. 2
LIGHTS OFF DURING FIRE
EXHAUST MAX DURING FIRE
SUPPLY OFF DURING FIRE
TRIM RING



CABINET DETAILS



MOUNTING LOCATION:
SHIP LOOSE ENCLOSURE

NOTES:
1) WHEN CONTROLS ARE MOUNTED IN HOOD-MOUNTED OR WALL-MOUNTED UTILITY CABINET, FOR HOOD OR WALL CABINET DIMENSIONS SEE HOOD SUBMITTAL.

2) MINIMUM OF 36" OF CLEARANCE RECOMMENDED IN FRONT OF CONTROL CABINET

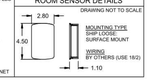
USER INTERFACE DETAILS

MOUNTING TYPE
FACTORY MOUNTED:
FACE MOUNT ON CONTROL PACKAGE

USER INTERFACE CONTROL
FANS AND LIGHTS

INTERFACE CABLE LENGTH:
4FT (FACTORY PROVIDED)

ROOM SENSOR DETAILS



MOUNTING TYPE
SHIP LOOSE:
SURFACE MOUNT

WIRING
BY OTHERS (USE 18/2)

ZONE CONFIGURATION

ZONE #	ZONE	ROOM TEMP
1	21	68-80

HOOD CONFIGURATION

HOOD #	HOOD	HOOD MARK	ZONE	EXHAUST	SUPPLY	MIN TEMP SENSORS	HOB	HOOD TYPE
1	AA	ITEM 11- HOOD, SECTION 1	21	E1	S1	TBD	WD	

FAN CONFIGURATION

FAN #	TYPE	FAN	FAN MARK	ZONE	CFM	MOTOR HP	MOTOR VOLT	MOTOR PHASE	MOTOR STARTER IN PANEL	VFD IN PANEL
1	EXHAUST	E1	EXHAUST FAN	21	625	1200	460	3	N/A	N/A
2	SUPPLY	S1	MUA	21	625	1200	460	3	N/A	N/A

PROJECT TYPE/SIZE	VETERANS AFFAIRS-TVDD CLC	ITEM 11- CONTROLS
VENDOR		

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ACCUREX

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON / CHARLOTTE ENGINEERS

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STAMP

CONSTRUCTION CONSULTANTS SCOTT REITANO 9308151 FCS GROUP ENTERPRISE PROFESSIONAL MEMBER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
EXHAUST HOOD SYSTEM DETAILS	BID DOCUMENTS	Construct TDVV CLC 12 Beds	508-349
			Building Number
Approved:	FULLY SPRINKLERED	Location: 180 MARTIN DR, CARROLLTON, GA 30117	Drawing Number
		Issue Date: 12/16/2024 / Checked / Drawn	K500

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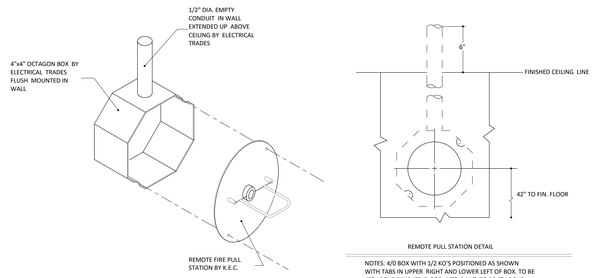
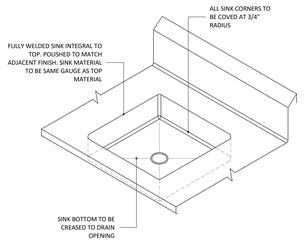
12/16/2024 11:50:13 AM

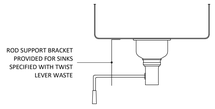


REMOTE PULL STATION DETAIL

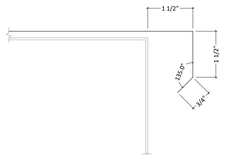
NOTES: 4/0 BOX WITH 1/2 KO'S POSITIONED AS SHOWN WITH TABS IN UPPER RIGHT AND LOWER LEFT OF BOX. TO BE 42" ABOVE FINISHED FLOOR. 1/2" E.M.T. TO BE 6" ABOVE FINISHED DROP CEILING LINE WITHOUT BENDS OR OFFSETS. ONE 4/0 BOX TO BE PROVIDED FOR EACH REMOTE PULL STATION. WHEN TWO REMOTE BOXES ARE MOUNTED SIDE BY SIDE, THE DISTANCE BETWEEN CENTERS SHALL NOT BE LESS THAN 8".

FIRE SUPPRESSION SYSTEM MANUAL PULL STATION | NOT TO SCALE | C

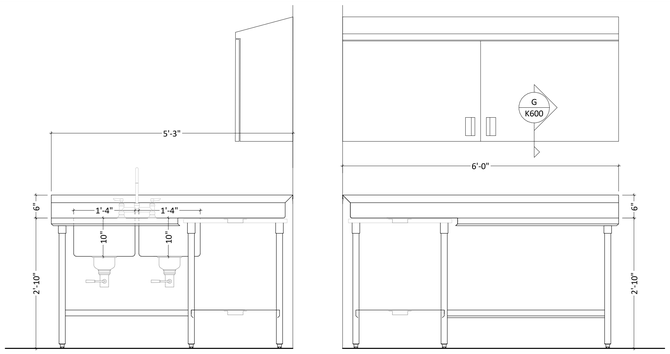




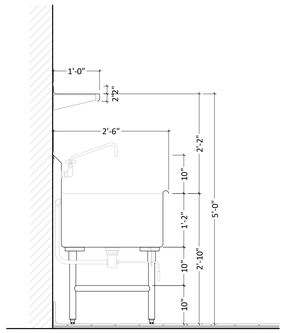
STAINLESS STEEL SINK CONSTRUCTION DETAIL | NOT TO SCALE | B



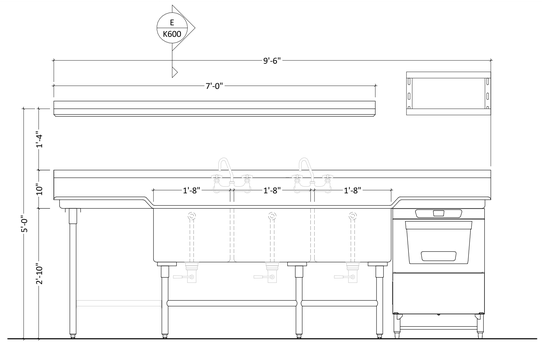
FLAT EDGE DETAIL | NOT TO SCALE | A



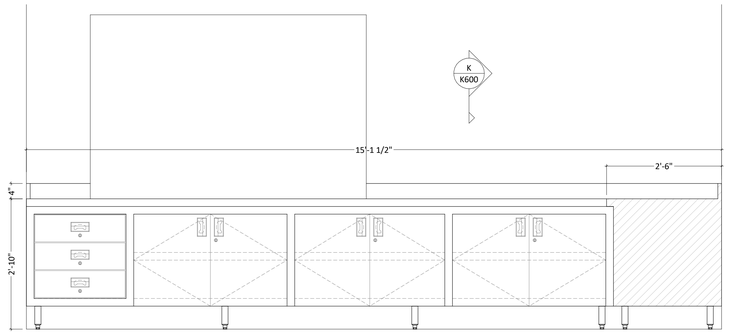
ITEM #6 - WORKTABLE W/ 2 COMP PREP SINK | SCALE 3/4" = 1'-0" | F



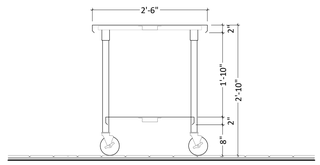
SECTION @ THREE COMPARTMENT SINK | SCALE 3/4" = 1'-0" | E



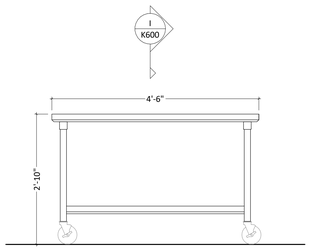
ITEM #2 - THREE COMPARTMENT SINK | SCALE 3/4" = 1'-0" | D



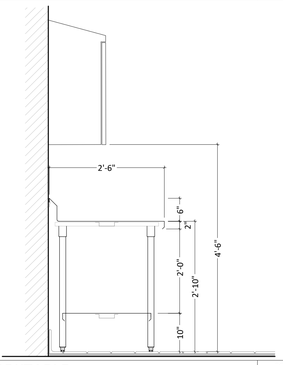
ITEM #14 - SERVING COUNTER | SCALE 3/4" = 1'-0" | J



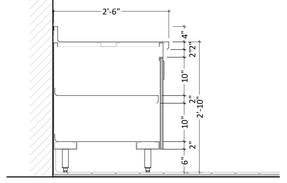
SECTION @ MOBILE WORKTABLE | SCALE 3/4" = 1'-0" | I



ITEM #10 - MOBILE WORKTABLE | SCALE 3/4" = 1'-0" | H



SECTION @ WORKTABLE | SCALE 3/4" = 1'-0" | G



SECTION @ SERVING COUNTER | SCALE 3/4" = 1'-0" | K

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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REITANO DESIGN GROUP
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INDIANAPOLIS, IN 46202

STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FOODSERVICE DETAILS, ELEVATIONS & SECTIONS	Phase: BID DOCUMENTS
Approved:	FULLY SPRINKLERED
Project Title: Construct TDVV CLC 12 Beds	Project Number: 508-349
Location: 180 MARTIN DR, CARROLLTON, GA 30117	Building Number:
Issue Date: 12/16/2024	Checked:
Drawn:	Drawing Number: K600

12/16/2024 11:50:14 AM

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VA FORM 08 - 6231

FIRE ALARM GENERAL NOTES

1. BEFORE SUBMITTING A PROPOSAL FOR THE WORK, EACH BIDDER WILL BE HELD RESPONSIBLE TO HAVE EXAMINED THE EXISTING SITE CONDITIONS FOR THE WORK INCLUDED UNDER THIS CONTRACT. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
2. NO FIRE ALARM DOCUMENTS/PLANS SHALL BE USED FOR DEMOLITION OF THIS SYSTEM UNLESS THEY CONTAIN A REVIEW AND APPROVAL STAMP FROM THE AUTHORITIES HAVING JURISDICTION AND A COMPLETED REVIEW BY THE ARCHITECT/ENGINEER. THE AUTHORITIES HAVING JURISDICTION OR ARCHITECT/ENGINEER HAS THE AUTHORITY TO STOP ANY WORK UNTIL SUCH PLANS ARE ON SITE AND IN USE.
3. THE NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH THE EXISTING TRINKA DAVIS FACILITY FIRE ALARM SYSTEM.
4. ALL ALARM DEVICE LOCATIONS SHALL BE COORDINATED WITH LIGHT FIXTURES, HVAC DIFFUSERS, SPRINKLERS, SIGNS, AND OTHER MEP TRADES PRIOR TO CONSTRUCTION.
5. UNLESS NOTED OTHERWISE ELSEWHERE, FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL FIRE RATED WALL PARTITIONS WITH A UL LISTED ASSEMBLY.
6. WALL PENETRATIONS THROUGH NON-RATED PARTITIONS SHALL BE PROVIDED WITH A NON-SHRINKING GROUT OR CAULKING MATERIAL AND APPROVED ASSEMBLY.
7. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE DESIGN OF THE FIRE ALARM SYSTEMS AND SHALL PROVIDE SEALED SHOP DRAWINGS. FIRE ALARM DEVICE LAYOUTS, DEVICES COUNTS, CONDUCTOR TYPES, WIRING DIAGRAMS, I/O MATRIX, RISER DIAGRAMS, AND BATTERY CALCULATIONS SHALL BE SEALED BY AN PROFESSIONAL ENGINEER OR A NICET LEVEL III OR LEVEL IV FIRE ALARM DESIGNER THAT IS REGISTERED IN THE STATE WHERE THE WORK IS TO OCCUR.
8. FLOOR/WALL PENETRATIONS THROUGH RATED SEPARATIONS SHALL BE SEALED WITH AN APPROVED FIRE RATED MATERIAL.
9. THE FIRE ALARM PLANS ARE FOR COORDINATION AND BIDDING PURPOSES ONLY. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE DESIGN.
10. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS AND CEILING REQUIRED FOR THE INSTALLATION OF THE NEW FIRE SUPPRESSION SYSTEM.
11. UNLESS NOTED OTHERWISE ELSEWHERE, FIRE ALARM SHOP DRAWINGS SHALL INCLUDE REFLECTIVE CEILING PLANS THAT INDICATE THE FOLLOWING:
    A. CEILING TYPES AND GRID
    B. ALL CEILING MOUNTED DEVICES (LIGHTS, DIFFUSERS, SPRINKLERS, AND ALL SPECIAL ELECTRICAL SYSTEMS).
12. THE FIRE ALARM CONTRACTOR SHALL LOCATE CEILING MOUNTED DEVICES AS FOLLOWS:
    A. ALL DEVICES SHALL BE LOCATED IN THE CENTER OF ONE QUADRANT (2' x 4').
    B. IN GYP. BOARD CEILINGS FIRE ALARM DEVICES SHALL BE LOCATED IN SYMMETRICAL PATTERNS RELATIVE TO OTHER DEVICES LOCATED IN THE CEILING.
13. THE CIRCUIT WIRING SHALL BE SIZED AS FOLLOWS
    A. NOTIFICATION APPLIANCE CIRCUITS SHALL BE A MINIMUM OF #14 AWG.
    B. SIGNAL LINE CIRCUITS SHALL BE A MINIMUM OF #18 AWG AND MAXIMUM OF #14 AWG.
14. ALL SMOKE DUCT DETECTORS CONCEALED ABOVE CEILINGS SHALL BE PROVIDED WITH A REMOTE LED INDICATING TEST STATION AT THE NEAREST CORRIDOR.
15. THE FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM INCLUDING INDIVIDUALLY ADDRESSED DEVICES.
16. ALL FIRE ALARM SPEAKERS SHALL BE TAPPED AT 1/2 WATT UNLESS NOTED OTHERWISE.
17. ALL FIRE ALARM DEVICES ARE TO BE WHITE WITH CONTRASTING LETTERING.
18. CONDUCTORS FOR DETECTORS, MANUAL STATIONS AND SUPERVISORY DEVICES CAN BE INSTALLED IN THE SAME CONDUIT BUT MUST BE INSTALLED IN A SEPARATE CONDUIT FROM ALL INDICATING DEVICES (HORN/STROBE,STROBE) AND FROM 120 VAC CIRCUITS.
19. ALL SMOKE DUCT DETECTORS CONCEALED ABOVE CEILINGS SHALL BE PROVIDED WITH A REMOTE LED INDICATING TEST STATION AT THE NEAREST CORRIDOR.
20. THE FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM INCLUDING INDIVIDUALLY ADDRESSED DEVICES.
21. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE EXISTING FIRE ALARM EQUIPMENT AT THE TRINKA DAVIS FACITLY NEEDS TO BE FIELD VERIFIED TO DETERMINE INTERFACE POINTS AND IF EXISTING MAIN FIRE ALARM CONTROL PANEL REQUIRES TO BE EXPANDED DUE TO THIS BUILDING CONSTRUCTION. THIS CONTRACTOR SHALL INCLUDE EXPANSION AND UPGRADE OF BATTERIES, IF EXISTING CONDITIONS WILL NOT MEET NFPA 72 WITH THE NEW ADDITION INTO THIS SCOPE OF WORK. USE THE EXISTING LOCAL FIRE ALARM CONTROL PANEL AND ADD ZONE CARD AND POWER SUPPLY AS NECESSARY.
22. FURNISH AND INSTALL END-OF-LINE RESISTORS AND CLEARLY MARK THE LOCATION OF THIS DEVICE.
23. CONNECT DUCT SMOKE DETECTORS IN THE HVAC SYSTEM (FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR) TO ACTIVATE THE FIRE ALARM SYSTEM AND SHUTDOWN THE HVAC SYSTEM IN THE EVENT OF SMOKE DETECTED IN THE HVAC DUCTS.
24. ALL FIRE ALARM SYSTEM COMPONENTS SHALL BE UL LISTED.
25. FURNISH AND INSTALL DUCT SMOKE DETECTOR TEST STATION IN CEILING TO SHOW LOCATION OF DETECTOR WHEN IN ALARM OR TROUBLE.
26. WHERE APPLICABLE, ELECTRICAL AND FIRE ALARM CONTRACTORS ARE TO PROVIDE CONNECTIONS TO EACH FIRE DAMPER AND SMOKE DAMPER TO PERMIT OPERATION OF THE DAMPERS IN ALARM AND TEST MODES. FIRE DAMPERS REQUIRE POWER FOR ELECTRICAL RESET. REFER TO FIRE/SMOKE DAMPER DETAIL AND REFER TO ELECTRICAL CONTRACT DRAWINGS FOR PANEL SCHEDULES AND CIRCUIT NUMBER.
27. IN THE EVENT OF A CODE CONFLICT, THE MOST RESTRICTIVE CODE OR STANDARD SHALL BE OBSERVED AND COMPLIED FOR THIS PROJECT.
28. FOLLOWING THE FIRE ALARM SYSTEM INSTALLATION, A 100% FIRE ALARM SYSTEM ACCEPTANCE TEST SHALL BE CONDUCTED BY THE FIRE ALARM CONTRACTOR FOR THE SCOPE OF WORK SHOWN ON THESE DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT, ENGINEER, VA COR, AND THE VA FIRE OFFICIAL WITHIN FIVE (5) WORKING DAYS OF THE TEST FOR SCHEDULING.
29. ALL FIRE ALARM NOTIFICATION APPLIANCE SIGNALS SHALL SOUND A TEMPORAL THREE PATTERN UNLESS OTHERWISE SPECIFIED BY THE VA FIRE OFFICIAL AND THE ENGINEER OF RECORD.
30. VISUAL APPLIANCE CANDELA RATING SHALL CONFORM TO NFPA, ADA AND ALL AUTHORITIES HAVING JURISDICTION REQUIREMENTS.
31. ALL NOTIFICATION DEVICES SHALL BE SYNCHRONIZED AND INSTALLED AS DEFINED BY NFPA 72 AND THE VA FIRE PROTECTION DESIGN MANUAL REQUIREMENTS.
32. ALL FIRE ALARM DEVICES AND NOTIFICATION APPLIANCES SHALL BE ACCESSIBLE FOR PERIODIC INSPECTIONS, MAINTENANCE AND TESTING PURPOSES.
33. ALL FIRE ALARM DEVICES AND NOTIFICATION APPLIANCES SUBJECT TO MECHANICAL DAMAGE SHALL BE PROTECTED BY A MANUFACTURER'S APPROVED PROTECTIVE COVER/GUARD.
34. THE FIRE ALARM CONTRACTOR SHALL NOT REMOVE PROTECTIVE COVERS FROM DETECTORS UNTIL AFTER THE CONSTRUCTION CLEAN UP OF ALL TRADES IS COMPLETE AND FINAL.
35. THE FIRE ALARM CONTRACTOR SHALL PREPARE AS-BUILT DRAWINGS DURING THE INSTALLATION OF THE FIRE ALARM SYSTEM.
36. A FIRE ALARM SYSTEM RECORD OF COMPLETION SHALL BE PRESENTED TO THE ARCHITECT, ENGINEER, AND VA COR'S REPRESENTATIVE AT THE CONCLUSION OF THIS FIRE ALARM SYSTEM INSTALLATION.
37. A VOLTAGE DROP CALCULATION SHALL BE PERFORMED AND SUBMITTED BY THE FIRE ALARM CONTRACTOR FOR POWER CONSUMING CIRCUITS; IN ORDER TO VALIDATE THAT THE SYSTEM HAS BEEN DESIGNED WITHIN NFPA TOLERABLE LIMITS. NOTIFICATION APPLIANCE DEVICES CIRCUIT VOLTAGE DROP CALCULATIONS SHALL HAVE A MAXIMUM VOLTAGE DROP OF 15% AND A PREFERRED VOLTAGE DROP OF 10% MEETING NFPA 72, SECTION 10.3.5.
38. THE FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM INCLUDING INDIVIDUALLY ADDRESSED DEVICES.
39. THE CONTRACTOR SHALL PROVIDE THE VA COR / VA FIRE OFFICIAL WITH OPERATING, TESTING, MAINTENANCE INSTRUCTION, SITE SPECIFIC SOFTWARE CHANGES/ADDITIONS, AND AS-BUILT DRAWINGS AT THE CONCLUSION OF THIS FIRE ALARM INSTALLATION. IT IS THE VA'S RESPONSIBILITY TO MAINTAIN ALL RECORDS OF THIS FIRE ALARM INSTALLATION IN A LOCATION APPROVED BY THE VA FIRE OFFICIAL AND ENGINEER OF RECORD.
40. THE CONTRACTOR SHALL PROVIDE THE VA COR / VA FIRE OFFICIAL WITH A ZONE MAP IN ACCORDANCE WITH NFPA STANDARDS AT THE CONCLUSION OF THIS FIRE ALARM INSTALLATION. IT IS THE VA'S RESPONSIBILITY TO MAINTAIN ZONE MAPS IN CURRENT CONDITIONS THROUGHOUT THE LIFE OF THIS FIRE ALARM SYSTEM.
41. THE CONTRACTOR SHALL PROVIDE THE VA COR / VA FIRE OFFICIAL WITH MAINTENANCE AND TESTING SCHEDULE FOR ALL EQUIPMENT FURNISH/INSTALLED UNDER THIS SCOPE OF WORK IN ACCORDANCE WITH NFPA 72 GUIDELINES.
42. ALL FIRE ALARM CABLE SHALL BE INSTALLED PER NFPA 70 REQUIREMENT.
43. ALL FIRE ALARM CABLE SHALL BE MONITORED FOR INTEGRITY IN ACCORDANCE WITH NFPA 70 AND NFPA 72 REQUIREMENTS.
44. ALL FIRE ALARM CIRCUITS SHALL BE DURABLY MARKED AND LABELED WHERE THE IDENTIFICATION SHALL BE CLEARLY VISIBLE.
45. ALL FIRE ALARM CABLE SHALL BE INSTALLED IN A NEAT, WORKMAN LIKE MANNER.
46. ALL FIRE ALARM CABLES SHALL BE INSTALLED IN A CONDUIT AND BE INDEPENDENTLY SUPPORTED FROM THE BUILDING STRUCTURE. FIRE ALARM CABLE SHALL NOT BE STRAPPED, TAPED OR ATTACHED BY ANY MEANS TO THE EXTERIOR OF ANY CONDUIT OR OTHER RACEWAY AS A MEANS OF SUPPORT.
47. ALL FIRE ALARM CABLE SHALL BE SUPPORTED BY STRAPS, HANGERS OR SIMILAR FITTING DESIGNED AND INSTALLED SO AS NOT TO DAMAGE THE CABLE.
48. ALL FIRE ALARM CABLES SHALL BE ACCESSIBLE; WHERE, BUILDING FEATURES DO NOT PROVIDE ACCESSIBILITY, OR THE FIRE ALARM CABLE SHALL BE INSTALLED IN AN APPROVED METAL RACEWAY.
49. ALL WIRING SHALL BE SECURED TO THE STRUCTURE AS SPECIFIED IN NFPA 70.
50. ALL CONDUIT SHALL BE SECURED TO THE STRUCTURE AS SPECIFIED IN NFPA 70.
51. THE FIRE ALARM SYSTEM ADDITION AND/OR MODIFICATIONS SHALL BE TEST FREE OF GROUNDS.
52. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR DETERMINING CABLE FILL/CONDUIT SIZING PER NFPA 70 REQUIREMENTS (ALL FIRE ALARM CONDUIT SHALL BE A MINIMUM SIZE OF 3/4 - INCH).
53. ALL FIRE ALARM CABLE, CONDUIT SHALL BE RED.
54. THE EXISTING ADDRESSABLE FIRE ALARM SYSTEM SHALL BE EXPANDED AS NEEDED TO SERVE THE NEW BUILDING CONSTRUCTION AS AN EXTENSION TO THE EXISTING FACILITY. NEW ADDRESSABLE DEVICES AND CONDUCTORS SHALL BE COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM. PROVIDE NEW BATTERIES AND POWER SUPPLIES, AS REQUIRED. PROVIDE PROGRAMMING OF EXISTING FIRE ALARM SYSTEM IN ORDER TO ADD NEW POINTS AS REQUIRED DUCTS THE RENOVATION SHOWN ON THESE CONTRACT DOCUMENTS.
55. WHERE, VISUAL, AUDIBLE AND NOTIFICATION DEVICES ARE PART OF THIS NEW BUILDING ADDITION THE FIRE ALARM CONTRACTOR SHALL BE REQUIRED TO INCLUDE POWER AVAILABILITY ANALYSIS SHOWING THAT THE INTENDED SOURCE OF POWER, THE NOTIFICATION CIRCUIT CAPACITY AND STABILITY POWER AVAILABILITY; IN ORDER TO VALIDATE THAT THE BATTERY SECONDARY POWER SOURCE SHALL HAVE A MINIMUM OF 20 PERCENT SAFETY MARGIN ABOVE THE CALCULATED AMP-HOUR CAPACITY REQUIRED. ANY CASES WHERE THE 20 PERCENT SAFETY MARGIN ABOVE THE CALCULATED AMP-HOUR CAPACITY IS NOT BEING MET THE SECONDARY SOURCE BATTERIES SHALL BE REPLACED AND UPGRADED AT THE NEW BUILDING ADDITION LOCAL FIRE ALARM CONTROL PANEL TO MEET NFPA 72 REQUIREMENTS BY THIS FIRE ALARM CONTRACTOR/INSTALLER.
56. DUCT DETECTORS SHALL BE MONITORED FOR INTEGRITY AND PROVIDE A SUPERVISOR SIGNAL AT THE SUPERVISORY FIRE ALARM CONTROL PANEL (FACP). AIR HANDLER SYSTEMS SHALL BE RAN AND BLOWN OUT PRIOR TO THE INSTALLATION OF SMOKE DETECTORS.
57. MAINTAINABILITY
    A. EXTERNAL AND INTERNAL PARTS SHALL BE ARRANGED SO THAT WHEN INSTALLED, ALL PARTS REQUIRING MANIPULATION, OBSERVATION, AND/OR MAINTENANCE ARE READILY ACCESSIBLE AND SAFE FOR OPERATION AND MAINTENANCE PERSONNEL. WHEREVER PRACTICAL, INSTRUMENTS AND EQUIPMENT SHALL BE LOCATED SUCH THAT THEY CAN BE OPERATED AND EASILY ACCESSED FROM GRADE LEVEL.
    B. MAINTAINABILITY SHALL BE INCORPORATED INTO THE DESIGN OF ALL CONTRACTOR SUPPLIED EQUIPMENT. THE PRIMARY MAINTAINABILITY OBJECT SHALL BE TO MINIMIZE THE COMPLEXITY AND TIME REQUIRED FOR MAINTENANCE. THE FOLLOWING GENERAL CRITERIA SHALL BE FOLLOWED TO ACHIEVE THIS OBJECTIVE:
        1. CONTRACTOR SUPPLIED EQUIPMENT SHALL BE LOW MAINTENANCE DESIGN AND SHALL BE EASILY MAINTAINABLE.
        2. CONTRACTOR SUPPLIED EQUIPMENT SHALL BE DESIGNED TO BE MAINTAINED IN PLACE, IF POSSIBLE, WITH MINIMUM DISASSEMBLY OF SURROUNDING EQUIPMENT AND MINIMUM USAGE OF TEMPORARY SCAFFOLDING AND HANDLING EQUIPMENT.
58. DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EACH AND EVERY CONDUCTOR, FITTING DEVICE, RACEWAY OR COMPLETE DETAIL OF ALL THE WORK TO BE PERFORMED, BUT ARE FOR THE PURPOSES OF ILLUSTRATING THE TYPE OF SYSTEM AND CONDITIONS NECESSARY FOR AN EXPERIENCED TRADESMAN TO LAY OUT HIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SUCH SITE EVALUATIONS AND MEASUREMENTS AS NECESSARY TO PROPERLY COMPLETE THE WORK.
59. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PRESENT THE ENGINEER, ARCHITECT AND VA COR WITH A REPORT CONFIRMING TESTING OF ALL NEW DEVICES IN THE PROJECT ZONE; ALONG WITH APPROPRIATE SELECTED TESTING OF THE MAIN FIRE ALARM SYSTEM TO CONFIRM CONTINUED PROPER OPERATION. A CERTIFICATE OF APPROVAL FROM THE APPROPRIATE AGENCY INSPECTION AGENT WILL BE REQUIRED PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
60. ALL CONCEALED CONDUCTORS SHALL BE INSTALLED IN EMT RACEWAYS, JUNCTION AND OUTLET BOXES SHALL BE STEEL; EXPOSED BOXES SHALL HAVE SOLID SIDES WITH ONLY ONE ENTRANCE KNOCKOUT. A FIRE ALARM SYSTEM RECORD OF COMPLETION SHALL BE PRESENTED TO THE ARCHITECT, ENGINEER, AND VA COR'S REPRESENTATIVE AT THE CONCLUSION OF THIS FIRE ALARM SYSTEM INSTALLATION.
61. DUCT DETECTORS SHALL BE MONITORED FOR INTEGRITY AND PROVIDE A SUPERVISOR SIGNAL AT THE SUPERVISORY FIRE ALARM CONTROL PANEL (FACP). AIR HANDLER SYSTEMS SHALL BE OPERATED AND PURGED PRIOR TO THE INSTALLATION OF SMOKE DETECTORS.
62. WHERE A DUCT SMOKE DETECTOR IS LOCATED ABOVE A CEILING OR IN A DIFFICULT TO REACH LOCATION, PROVIDE A REMOTE INDICATING LAMP AND A TEST KEY SWITCH ON NEARBY WALL AT 7 FEET AFF TO FACILITATE TESTING.
63. WIRING FOR BUILDING FIRE ALARM SYSTEMS SHALL BE SPECIFIED AS DEFINED IN NFPA 72 AND AS FOLLOWS:
    A. INITIATING DEVICE CIRCUITS (IDC): CLASS B.
    B. SIGNALING LINE CIRCUITS (SLC): CLASS B.
    C. NOTIFICATION APPLIANCE CIRCUITS (NAC): CLASS B.
    D. COMMUNICATION BETWEEN BUILDING(S) FIRE ALARM CONTROL UNITS:
        1. CLASS X WHERE SIGNALING LINE CIRCUITS ARE RUN BETWEEN FIRE ALARM CONTROL UNITS IN SEPARATE BUILDING, FIRE OPTIC CIRCUITS SHALL BE FURNISHED/INSTALLED.
        2. WHERE CLASS X COPPER WIRED CIRCUITS ARE INSTALLED, PROVIDE ISOLATION MODULES THAT WILL ENSURE THAT ONLY ONE BUILDING WILL BE LOST (E.G., WILL NOT RESPOND) DURING ANY TYPE OF FAULT. IT IS REQUIRED THAT THE INSTALLATION FOR CLASS X CIRCUITS BE RUN IN SEPARATE CONDUITS FROM EACH OTHER.
64. NOTIFICATION OF STAFF SHALL BE BY DIGITAL VOICE(SPEAKER SYSTEM). DO NOT USE CODED OR TAPED VOICE SYSTEMS SPEAKERS SHALL BE INSTALLED AS THE NOTIFICATION APPLIANCE, THE FIRE ALARM SYSTEM SHALL BE DESIGNED SUCH THAT IT IS POSSIBLE TO MANUALLY BROADCAST AN EMERGENCY VOICE MESSAGE SIMULTANEOUSLY TO ALL BUILDINGS PROVIDED WITH SPEAKERS. SELECTABLE SWITCHES SHALL BE PROVIDED AT THE FIRE ALARM VOICE CONTROL PANEL SO THAT A MANUAL VOICE MESSAGE CAN BE COMMUNICATED TO EACH CONNECTED BUILDING INDIVIDUALLY. AS A MINIMUM, THIS CONTRACTOR SHALL PROVIDE ONE SWITCH FOR THIS BUILDING
65. THE PUBLIC ADDRESS SYSTEM BEING FURNISHED/INSTALLED AS PART OF THE ELECTRICAL DESIGN DOCUMENTS SCOPE OF WORK SHALL BE INTERFACED WITH THE FIRE ALARM SYSTEM; WHERE, IN THE ADVENT OF AN ALARM CONDITION THE FIRE ALARM SYSTEM SHALL CAUSE SHUTDOWN OF THE PUBLIC ADDRESS SYSTEM SO THAT, ALL "WHITE NOISE" CAPABILITY OF THE PUBLIC ADDRESS SYSTEM SHALL CEASE. ALL INTERFACES BETWEEN THE PUBLIC ADDRESS SYSTEM AND FIRE ALARM SYSTEM IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR/INSTALLER INCLUDING ANY ALL PROGRAMMING.
66. SPRINKLER SYSTEM MONITORING: FIRE ALARM CONTRACTOR SHALL MAINTAIN SUPERVISION OF ANY EXISTING SPRINKLER SYSTEM BEING MODIFIED AS PART OF THIS PROJECT AT ALL TIMES. CONTRACTOR SHALL COORDINATE TRANSFER WITH OWNER AND ENGINEER OF RECORD.
67. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO ELIMINATE CONFLICT WITH OTHER TRADES. ANY WORK INSTALLED BY THIS CONTRACTOR THAT RESULTS IN CONFLICT, DUE TO LACK OF COORDINATION BETWEEN TRADES, SHALL BE CHANGED AS DIRECTED BY THE ARCHITECT/ENGINEER WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.
69. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR PROVIDING DESIGN SHOP DRAWINGS, CALCULATIONS, ETC., INCLUDING BUT NOT LIMITED TO ALL ITEMS WHICH APPLY AS OUTLINED IN NFPA 72 SECTIONS 7.2, 7.4 AND 7.5, TITLED, "MINIMUM REQUIRED DOCUMENTATION", "SHOP DRAWINGS (INSTALLATION DOCUMENTATION)," AND "COMPLETION DOCUMENTATION".
70. ALL FIRE ALARM POWER CIRCUITS SHALL BE FED TO/FROM A LIFE SAFETY PANEL MEETING THE REQUIREMENTS OF NFPA 70 SECTION 517.45(B) AND SECTION 517.32(C) WHERE A DEDICATED LIFE SAFETY BRANCH CIRCUIT SHALL SUPPLY POWER FOR FIRE ALARM PANELS, EXTENDER PANELS, ETC. FIRE ALARM SYSTEM SHALL NOT BE FED FROM A NORMAL POWER PANEL.
71. THE FIRE ALARM CIRCUIT BREAKER IDENTIFICATION AND ACCESSIBILITY SHALL MEET THE REQUIREMENTS OF NFPA 72, SECTION 10.6.5.2 AND FIRE ALARM CIRCUIT BREAKER LOCK REQUIREMENTS STATED IN SECTION 10.6.5.4 & 10.6.5.5.
72. POWER FOR FIRE/SMOKE DAMPERS AND DUCT SMOKE DETECTORS SHALL BE PROVIDED FROM AN EQUIPMENT BRANCH PANELBOARD. REFER TO ELECTRICAL DISCIPLINE DRAWINGS FOR WIRING CONFIGURATION.
73. 12 MULTIMODE FOR FIRE ALARM SYSTEM COMMUNICATIONS, TYPE OM1 ONLY.
74. DISRUPTIONS TO FIRE ALARM AND SPRINKLER SYSTEMS SHALL BE KEPT TO A MINIMUM OR AVOIDED. DELINEATE PHASING OF CONSTRUCTION TO ENSURE THAT INSTALLATIONS OF NEW SYSTEMS ARE EXPEDITED, AND IS OPERATIONAL. IF FIRE PROTECTION SYSTEMS ARE TO BE DISRUPTED, PROCEDURES SHALL BE INCORPORATED INTO THE DESIGN TO MAINTAIN EQUIVALENT LEVELS OF FIRE PROTECTION AND PROVIDE FORMAL NOTIFICATION TO THE FACILITY WHILE SYSTEMS ARE DOWN. FOR EXAMPLE, THE PROVISION OF A 24 HOUR FIRE WATCH BY QUALIFIED INDIVIDUALS PROVIDED BY THE CONTRACTOR MAY PROVIDE AN EQUIVALENT LEVEL OF FIRE PROTECTION DURING SYSTEM DISRUPTION IN SOME CIRCUMSTANCES.
75. ACTIVATE FIRE PROTECTION AS IT IS INSTALLED. FIRE ALARM SYSTEM INSTALLATION SHOULD BE COORDINATED AND PLACED IN SERVICE PRIOR TO FINAL INSPECTION – MEANS OF NOTIFICATION REQUIRED THROUGHOUT CONSTRUCTION AREAS (NFPA 241 REQUIREMENT) – TEMPORARY SYSTEM MAY BE DESIRED IF NEW SYSTEM CANNOT BE INSTALLED AS CONSTRUCTION PROGRESSES – ONCE INSTALLED, SYSTEM SHOULD BE ON EVEN IF PENDING ACCEPTANCE.
76. EXISTING FA SYSTEM SHOULD ALWAYS STAY ONLINE FOR DURATION OF PROJECT UNLESS:
    A. TEMP FA SYSTEM INSTALLED
    B. FIRE WATCH IMPLEMENTED THIS ALLOWS BUILDING TO BE PROTECTED WHILE NEW SYSTEM, DEVICES, WIRING, CONDUIT AND ALARM PANEL, ETC., IS INSTALLED.
77. FIRE ALARM LIFE SAFETY SYSTEM TO BE FURNISHED/INSTALLED BY THIS CONTRACTOR SHALL BE MAINTAINED AS SOON AS REASONABLY PRACTICAL. COORDINATION WITH VA FIRE MARSHAL IS REQUIRED.
78. FIRE ALARM NEEDS TO BE ABLE TO INTEGRATE WITH VA MONITORING SYSTEM. MULTIMODE FIBER CONNECTIVITY TO CAMPUS FIRE ALARM SYSTEM IS A REQUIREMENT FOR THIS BUILDING.
79. THE FIRE ALARM CONTRACTOR SHALL PROVIDE, FURNISH AND INSTALL, NEW FIXED TEMPERATURE HEAT DETECTORS IN THE WORK AREA DURING CONSTRUCTION AND THE HEAT DETECTORS ARE PROVIDED AS AN INTERIM EQUIVALENT SAFETY MEASURE TO BE PROVIDED DURING A FIRE ALARM OR FIRE SUPPRESSION SYSTEM IMPAIRMENT. THE HEAT DETECTORS SPACING WITHIN THE CONSTRUCTION AREA SHALL FOLLOW NFPA 72 AND NFPA 241 REQUIREMENTS. THE HEAT DETECTORS SHALL BE CONFIGURED/INTERFACED WITH THE NEW LOCAL FIRE ALARM PANEL AND THE SITE'S EXISTING MAIN FIRE ALARM AND DETECTION SYSTEM FOR MONITORING DURING A SYSTEM IMPAIRMENT. UPON COMPLETION OF CONSTRUCTION WITHIN THE RENOVATED AND NEW CONSTRUCTION AREA THE HEAT DETECTORS INCLUDING ALL WIRING, PROGRAMMING, ETC., TO/FROM THE INDIVIDUAL DEVICES AND THE FIRE ALARM SYSTEM SHALL BE REMOVED OR LEFT IN PLACE DEPENDENT ON THE COR REQUIREMENT.
80. THIS CONTRACTOR IS RESPONSIBLE FOR SUBMISSION OF SYSTEM RECORD OF COMPLETION MEETING NFPA 72, FIGURES 7.8.2(a) FOR REVIEW AND COMMENT BY THE VA AND ENGINEER OF RECORD. ALL SYSTEM RECORD OF COMPLETIONS MUST BE DATED, PRINTED NAME OF INDIVIDUALS WHO SIGNED THE SYSTEM RECORD OF COMPLETION AND SIGNATURES. ALL TEST MUST BE COORDINATED WITH THE VA COR, VA FIRE SAFETY OFFICIAL AND THE ENGINEER OF RECORD. SIGNATURES BY NON VA FIRE OFFICIALS WILL NOT BE ACCEPTED.
81. TRINKA DAVIS VA FACILITY WILL REQUIRE THAT THE TEMPORARY HEAT DETECTORS SPECIFIED ON FA003 AND FX003 SHALL BE IN PLACE AND PROGRAMMED AT THE MAIN FIRE ALARM CONTROL PANEL LOCATED WITHIN THE EXISTING TRINKA DAVIS VA FACILITY. AN ACTIVE FIRE ALARM AND DETECTION SYSTEM MUST BE IN PLACE BEFORE ANY COMBUSTIBLES ARE LOCATED WITHIN THE NEW BUILDING CONSTRUCTION. THEREFORE, IT IS RECOMMENDED THAT DURING THE NEW WORK THE LAST ITEMS TO BE REMOVED ARE THE CONSTRUCTION SMART HEAT DETECTOR. THEREFORE, THERE WILL BE TWO ROUNDS OF TESTING AND ACCEPTANCE, E.G., PRE TESTING OF ALL NEW DEVICES AND FINAL TESTING OF THE NEW AND INTERFACES TO THE TRINKA DAVIS FACILITY MAIN FIRE ALARM CONTROL PANEL IN ORDER TO VALIDATE AND CERTIFICATION OF APPROVAL OF THE SYSTEM RECORD OF COMPLETION SHOWN IN NFPA 72, FIGURE 7.8.2.
82. THE TRINKA DAVIS VA FACILITY REQUIREMENTS FOR A SHUTDOWN IS THAT NO FIRE ALARM SYSTEM SHALL BE DISCONNECTED FOR MORE THAN 4 HOURS. APPROVALS OF ANY FIRE ALARM SHUTDOWN IS TO BE SUBMITTED AND APPROVED TO THE VA FIRE SAFETY OFFICIAL THE VA COR AND THE ENGINEER OF RECORD WITH DETAILED SCHEDULE CHRONICALLY ORDER OF WORK SCOPE TO BE COMPLETED BETWEEN START AND FINISH OF THE FIRE ALARM SHUTDOWN.

FIRE ALARM INSPECTION NOTE

A CONTRACTOR SHALL PROVIDE THE ENGINEER FIVE(5) WORKING DAYS NOTICE FOR ALL REQUESTED REVIEWS OF THE WORK. AS A MINIMUM THE FOLLOWING REVIEWS SHALL BE CONDUCTED PRIOR TO COVERING UP ANY CONCEALED WORK:

1. UNDERGROUND WORK. ALL WORK SHALL BE VISIBLE FIRE DETECTION INSPECTIONS SHALL BE COMPLETE AND PASSED.
2. INSTALLATION OF TAMPER AND FLOW SWITCHES ON FIRE SERVICE DOUBLE CHECK VALVE ASSEMBLY AND POST INDICATOR VALVE FOR ELECTRONIC SUPERVISION SHALL BE COMPLETE AND INTERFACE WIRING FOR INTERFACE WITH NEW TRINKA DAVIS CLC FIRE ALARM CONTROL PANEL WITH REMOTE MONITORING AT EXISTING TRINKA DAVIS VETERANS VILLAGE MAIN FIRE ALARM CONTROL PANEL SHALL BE COMPLETED AND PASSED INSPECTION.
3. IN-WALL ROUGH-IN WORK SHALL BE VISIBLE. FIRE ALARM AND FIRE DETECTION INSPECTIONS SHALL BE COMPLETE AND PASSED.
4. ABOVE CEILING WORK AN ABOVE CEILING WORK SHALL BE COMPLETE INCLUDING WIRING TO ALL INITIATING DEVICES AND NOTIFICATION APPLIANCES; E.G. MANUAL PULL STATIONS, AUDIO VISUAL DEVICES, SMOKE DETECTORS, ETC. FIRE ALARM AND FIRE DETECTION INSPECTIONS SHALL BE COMPLETED AND PASSED. ALL CEILING GRIDS SHALL BE INSTALLED. NO CEILING TILES SHALL BE INSTALLED.

RE-REVIEW SHALL BE REQUIRED IF THE WORK IS COMPLETE OR NOT INSTALLED PER THE CONTRACT DOCUMENTS.

FIRE ALARM SYMBOLS

Symbol	Description
F	HEAT DETECTOR - FIXED TEMPERATURE
	FIRE EXTINGUISHER, DRY CHEMICAL FOR ALL TYPES OF FIRES
F	ALARM, FIRE, MANUAL PULL STATION.
	ALARM, LAMP LIGHT, SIGNAL LIGHT STROBE.
	WALL MOUNTED STROBE
C	WALL MOUNTED SPEAKER-STROBE
WF	FIRE SUPPRESSION WATER FLOW SWITCH TO SPRINKLER SYSTEM
TS	FIRE SUPPRESSION TAMPER SWITCH TO SPRINKLER SYSTEM
FACP	FIRE ALARM CONTROL PANEL

FIRE EXTINGUISHER SCHEDULE

Tag	Description
FE1	FIRE EXTINGUISHER, 20 LB (4A:80B:C) DRY CHEMICAL FOR OFFICE AREAS AND HEALTH CARE FINISHED SPACES
FE2	FIRE EXTINGUISHER, 20 LB (10A:120B:C) MULTI PURPOSE DRY CHEMICAL FOR MECHANICAL ROOM AREAS
FE3	FIRE EXTINGUISHER, 20 LB (2A:K) WET CHEMICAL FOR COMMERCIAL KITCHEN
FE4	FIRE EXTINGUISHER, 20 LB (40B:C) CARBON DIOXIDE FOR ELECTRIC ROOMS AND COMPRESSED GAS STORAGE ROOM.

FIRE ALARM AND DETECTION NOTE

FIRE ALARM AND DETECTION PLANS ARE SHOWN FOR BIDDING PURPOSES. FIRE ALARM AND DETECTION CONTRACTOR IS TO SUBMIT SHOP DRAWING. FIRE ALARM CALCULATIONS MEETING NFPA 72 AND VA FIRE PROTECTION DESIGN MANUAL, ALL SHOP DRAWINGS AND CALCULATION ARE TO BE SIGNED, STAMPED AND SEALED BY EITHER A LICENSED FIRE PROTECTION ENGINEER IN THE STATE WHERE WORK WILL BE PERFORMED OR A NICET LEVEL III OR IV CERTIFICATION IN FIRE ALARM SYSTEM LAYOUT. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE VA REQUIREMENTS AND APPLICABLE CODES.

WORK AREAS OUTSIDE OF A RATED CONSTRUCTION BARRIER

CONTRACTOR SHALL BE REQUIRED TO PROVIDE/INSTALL THE REPLACEMENT OF CEILING TILES AT THE END OF EACH SHIFT FOR WORK AREAS OUTSIDE A RATED CONSTRUCTION BARRIER. IF THE TILES CAN NOT BE REPLACED THE SPRINKLER SYSTEM MAY BE CONSIDERED OUT OF SERVICE IN THESE AREAS AND A 1-HOUR FIRE RATED SEPARATION WILL BE REQUIRED BETWEEN THE CONSTRUCTION AREA AND THE OCCUPIED PORTION OF THE BUILDING.

REFERENCE NFPA 1, PARAGRAPH 13.3.3.3

SCOPE OF WORK

NOT IN CONTRACT

AREA OF WORK

FIRE ALARM ABBREVIATIONS

ADA	AMERICANS WITH DISABILITIES ACT	I/O	INPUT / OUTPUT
AHJ	AUTHORITY HAVING JURISDICTION	INT	INTERIOR
AIM	ADDRESSABLE INPUT MODULE	ISO	ISOLATOR MODULE
AOM	ADDRESSABLE OUTPUT MODULE	JB	JUNCTION BOX
A	AMPERE	LTG	LIGHTING
AUTO	AUTOMATIC	LCD	LIQUID CRYSTAL DISPLAY
A/CO	ABOVE CONCRETE	LOC	LOCAL OPERATING CONSOLE
NC	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED GRADE	MFAP	MAIN FIRE ALARM PANEL
AFG	AMERICAN WIRE GAUGE	MNS	MASS NOTIFICATION SYSTEM
AWG	BATTERY	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
BATT	BASEMENT	NEC	NATIONAL ELECTRIC CODE
BSMT	BREAKER	NC	NORMALLY CLOSED
BR	BOTTOM OF BEAM	NO	NORMALLY OPENED
BOB	BUILDING MANAGEMENT SYSTEM	NIC	NOT IN CONTRACT
BMS	CANDELA	NAC	NOTIFICATION APPLIANCE CIRCUIT
CD	CEILING	NA	NOT APPLICABLE
CLG	CEILING MOUNTED	NTS	NOT TO SCALE
CM	CONDUIT	PNL	PANEL
C	DOWN	PH	PHASE
DN	DIGITAL ALARM COMMUNICATOR	PW	PROTECTOWIRE
DACT	TRANSMITTER	PS	PRESSURE SWITCH
EA	EACH	SLC	SIGNALING LINE CIRCUIT
ELEC	ELECTRIC/ELECTRICAL	SOL	SOLENOID
EL	ELEVATION	SPEC	SPECIFICATION
EOL	END ON LINE RESISTOR	STL	STEEL
EXIST	EXISTING	TS	TAMPER SWITCH
XP	EXPLOSION PROOF	TOC	TOP OF CONCRETE
EX	EXTERIOR	TOS	TOP OF STEEL
FM	FACTORY MUTUAL GLOBAL	TYP	TYPICAL
FA	FIRE ALARM	UL	UNDERWRITERS LABORATORY
FAA	FIRE ALARM ANNUNCIATOR PANEL	UNO	UNLESS NOTED OTHERWISE
FL	FLOOR	VA	UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
GALV	GALVANIZED	VAL	VALVE
GPM	GALLONS PER MINUTE	V	VOLT
GA	GENERAL ALARM (BUILDING WIDE)	VDC	VOLTS DIRECT CURRENT
GC	GENERAL CONTRACTOR	FS	WATERFLOW SWITCH
GR	GRADE	W	WATT
GND	GROUND	WM	WALL MOUNTED
GFI	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHERPROOF
HP	HORSEPOWER	WG	WIREGUARD
HVAC	HEATING VENTING AND AIR CONDITIONING		

DESIGN CODES, STANDARDS & PARTIES OF REFERENCE

THE FOLLOWING PUBLICATIONS AND AUTHORITIES HAVING JURISDICTION SHALL BE REFERENCED FOR THE DESIGN OF THE FIRE PROTECTION SYSTEM ON THIS PROJECT:

1. ANSI, A117.1 STANDARD, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES. 2017 EDITION
2. NFPA 1 - FIRE CODE, 2024 EDITION
3. NFPA 10 - STANDARD FOR PORTABLE FIRE EXTINGUISHERS, 2022 EDITION
4. NFPA 55 - COMPRESSED GASES AND CRYOGENIC FLUIDS CODE, 2023 EDITION
5. NFPA 70 - NATIONAL ELECTRIC CODE, 2023 EDITION
6. NFPA 72 - NATIONAL FIRE ALARM & SIGNALING CODE, 2022 EDITION
7. NFPA 99 - HEALTHCARE FACILITY CODE, 2024 EDITION
8. NFPA 101 - LIFE SAFETY CODE. 2024 EDITION
9. NFPA 170 - LIFE SAFETY CODE, 2024 EDITION
10. NFPA 241 - STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERNATION AND DEMOLITION OPERATIONS, 2022 EDITION
11. VA FIRE PROTECTION DESIGN MANUAL, NOVEMBER 1, 2023, NINTH EDITION
12. VA SEISMIC DESIGN REQUIREMENTS, REVISED JULY 1, 2023 EDITION
13. VA FIRE SAFETY OFFICIAL

DEDUCT ALTERNATES

A	**ALTERNATE A** - ELIMINATE SECONDARY ELECTRICAL FEED
B	**ALTERNATE B** - ELIMINATE LANDSCAPING
C	**ALTERNATE C** - ELIMINATE CLERESTORY AREAS
D	**ALTERNATE D** - ELIMINATE CLERESTORY AREAS

NOTE: SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FIRE ALARM - DRAWING INDEX

Sheet Number	Sheet Name
FA001	FIRE ALARM - SYMBOLS, NOTES AND DRAWING INDEX
FA002	FIRE ALARM - DETAILS
FA003	FIRE ALARM - INPUT/OUTPUT MATRIX & TEMPORARY REQUIREMENTS
FA100	FIRE ALARM - BASEMENT FLOOR PLAN
FA110	FIRE ALARM - FIRST FLOOR PLAN
FA111	FIRE ALARM - FIRST FLOOR - FIRE ALARM SYSTEMS ROUTING PLAN

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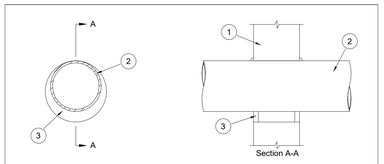


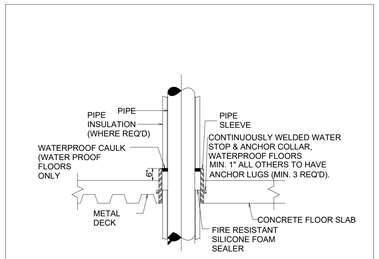
1. RATED WALL OR FLOOR ASSEMBLY - PROVIDE FIRE STOPPING ASSEMBLY FOR PARTITION TYPE & RATING ENCOUNTERED.
2. THROUGH PENETRATION - PROVIDE FIRE STOPPING ASSEMBLY FOR SIZE & MATERIAL OF THROUGH PENETRATION UTILIZED.
3. FIRE STOPPING MATERIAL - PROVIDE FIRE STOPPING MATERIAL FOR WALL ASSEMBLY & THROUGH PENETRATION MATERIAL ENCOUNTERED. FILL VOIDS OR CAVITY ACCORDING TO THE REQUIREMENTS OF THE FIRE STOPPING SYSTEM UTILIZED.

ALL RATED WALLS, PARTITIONS OR FLOORS SHALL BE PROVIDED WITH A UL LISTED FIRE STOP SYSTEM. THE SYSTEM UTILIZED SHALL MATCH THE SEPARATION PENETRATED AND THE THROUGH PENETRATION MATERIAL.

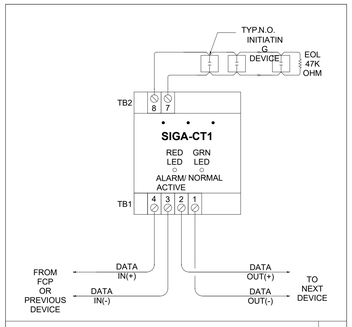
DETAILS FOR THE INSTALLATION OF SYSTEM TYPE UTILIZED SHALL BE AVAILABLE AT THE PROJECT SITE FOR THE DURATION OF CONSTRUCTION AND SHALL BE PROVIDED TO THE AUTHORITY HAVING JURISDICTION AND TO THE BUILDING OWNER AT THE PROJECT COMPLETION.

PROVIDE WALL OR FLOOR LABELS INDICATING THE SYSTEM MANUFACTURER AND UL LISTED ASSEMBLY NUMBER AT EACH LOCATION WHERE THE FIRE STOPPING SYSTEM IS INSTALLED.

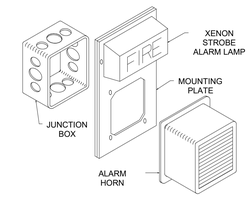
THROUGH PENETRATION FIRESTOP SYS. (PROVIDE UL LISTED SYSTEM) NTS 9



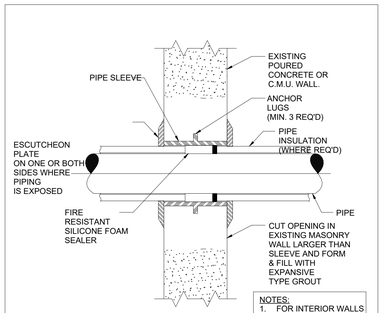
PIPE SLEEVE THROUGH FLOOR DETAIL NTS 6



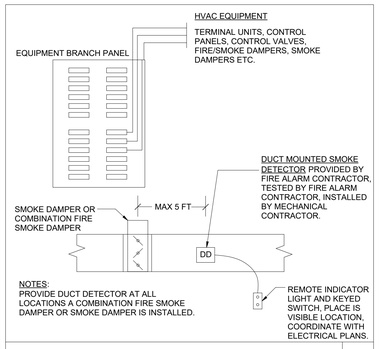
SINGLE INPUT MODULE NTS 3



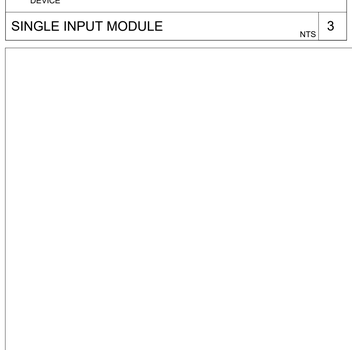
FIRE ALARM HORN/STROBE LIGHT MOUNTING DETAIL NTS 2



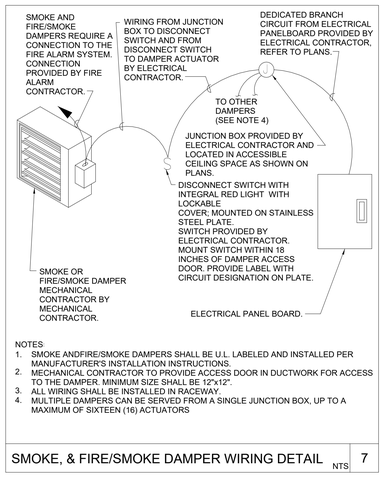
PIPE SLEEVE THROUGH WALL DETAIL NTS 8



DUCT DETECTOR AND POWER DETAIL NTS 5

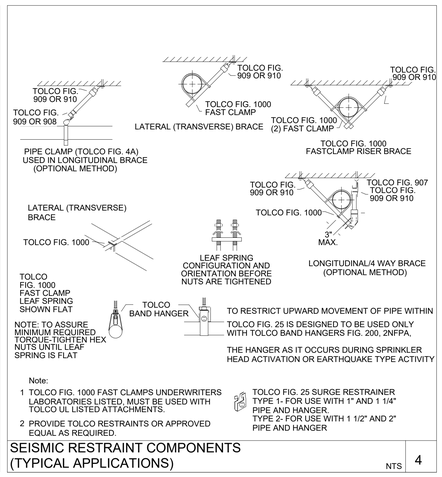


MOUNTING HEIGHTS OF DEVICES NTS 1



NOTES
1. SMOKE ANDFIRE/SMOKE DAMPERS SHALL BE U.L. LABELED AND INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. MECHANICAL CONTRACTOR TO PROVIDE ACCESS DOOR IN DUCTWORK FOR ACCESS TO THE DAMPER. MINIMUM SIZE SHALL BE 12"x12".
3. ALL WIRING SHALL BE INSTALLED IN RACEWAY.
4. MULTIPLE DAMPERS CAN BE SERVED FROM A SINGLE JUNCTION BOX, UP TO A MAXIMUM OF SIXTEEN (16) ACTUATORS

SMOKE, & FIRE/SMOKE DAMPER WIRING DETAIL NTS 7



SEISMIC RESTRAINT COMPONENTS (TYPICAL APPLICATIONS) NTS 4

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE ALARM - DETAILS

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: GAT | Drawn: JRC

Project Number: 508-349

Building Number:

Drawing Number: FA002

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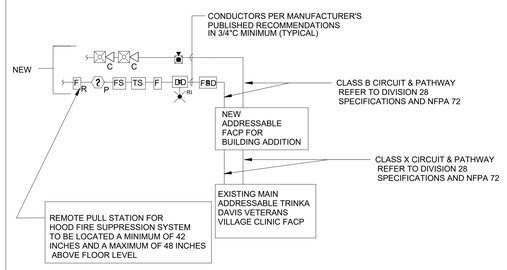
	INPUTS \ OUTPUTS	1.SOUND GENERAL BUILDING ALARM FOR OTHER AND NON-HIGH RISE (NON-HEALTH CARE) OCCUPANCIES.	2. NOTIFY NECESSARY STAFF FOR RESPONSE FOR HEALTH CARE, AMBULATORY HEALTH CARE, AMBULATORY SURGICAL (ONLY ALARM SIGNAL MAY BE DIFFERENT ON DIFFERENT FLOORS).	3. NOTIFY FIRE DEPARTMENT.	4. INITIATE SUPERVISORY SIGNAL TO A 24-HOUR MANNED POINT FOR IMMEDIATE RESPONSE.	5. CLOSE ASSOCIATED SMOKE BARRIER DOORS ON THE FLOOR.	6. CLOSE DAMPERS ON FAN PROXIMATE TO DETECTOR.	7. SHUT DOWN AIR HANDLER SERVED BY THE DETECTOR.	8. RECALL ELEVATOR.	9. INITIATE ELEVATOR SHUT DOWN AND DISCONNECT ELEVATOR POWER.	10. OPEN **LOCKED EGRESS DOORS ON FLOOR OF FIRE ORIGIN.	11. DISCONNECT FUEL SOURCE FROM COOKING EQUIPMENT.
1	DUCT SMOKE DETECTOR *	X(B)	X(B)	X(B)	X(B)		X	X(A)				
2	AREA SMOKE DETECTOR *	X	X	X							X	
3	DOOR RELEASE SMOKE DETECTOR *	X	X	X		X	X				X	
4	ELEVATOR SMOKE DETECTOR *	X	X	X					X			
5	MANUAL PULL STATION	X	X	X		X					X	
6	ELEVATOR MACHINE ROOM HEAT DETECTOR	X	X	X						X		
7	GENERATOR ROOM HEAT DETECTOR	X	X	X							X	
8	SPRINKLER WATERFLOW / PRESSURE SWITCH	X	X	X		X					X	
9	WATER CONTROL VALVE TAMPER				X							
10	FIRE PUMP (ANY ALARM CONDITION REQUIRED BY NFPA 20)				X							
11	HIGH / LOW PRESSURE DRY - PIPE SPRINKLER SYSTEM				X							
12	KITCHEN HOOD SUPPRESSION SYSTEM	X	X	X		X					X	X
13	GAS EXTINGUISHING SYSTEM	X	X	X		X					X	
14	DRY-PIPE VALVE ROOM TEMPERATURE ALARM				X							
15	DEDICATED FIRE WATER STORAGE TANK LOW LEVEL				X							
16	DEDICATED FIRE WATER STORAGE TANK LOW TEMPERATURE				X							
17												
18												

* WHILE NFPA 101 DOES NOT REQUIRE SOME DETECTORS TO NOTIFY BUILDING OCCUPANTS, VA REQUIRES ALL SMOKE DETECTORS, OTHER THAN DUCT SMOKE DETECTORS, TO NOTIFY BUILDING OCCUPANTS. ONLY INSTALL SMOKE DETECTORS WHEN REQUIRED BY NFPA 101 OR ITS REFERENCES.
** THOSE DOORS THAT ARE REQUIRED TO BE TIED TO THE FIRE ALARM SYSTEM SUCH AS DELAYED EGRESS ELECTRICAL LOCKING SYSTEMS AND SENSOR RELEASE ELECTRICAL LOCKING SYSTEMS.
*** THIS APPLIES TO AMBULATORY HEALTH CARE OCCUPANCIES THAT REQUIRE SMOKE BARRIERS PER NFPA 101 OR ARE DESIGNED WITH MULTIPLE SMOKE ZONES.

A – DO NOT PROVIDE DUCT DETECTORS IN DEDICATED (100%) EXHAUST FANS, THEY SHOULD CONTINUE TO RUN.
B – THE FACILITY IS PERMITTED TO SOUND THE GENERAL ALARM/NOTIFY NECESSARY STAFF OR INITIATE A SUPERVISORY SIGNAL TO BE CONSISTENT WITH THE OPERATION OF EXISTING SYSTEMS/FIRE PLAN.



NOTES:
1. DEVICES SHOWN ARE TYPICAL. REFER TO FIRE ALARM SHEETS FOR DEVICE LOCATIONS AND QUANTITIES.
2. PROVIDE END OF LINE RESISTORS AS REQUIRED.
3. ANNUNCIATION SHALL BE THREE TEMPORAL BEEPS.
4. DUCT SMOKE DETECTORS AND DAMPERS SHALL BE PROVIDED AND WIRED TO FATC AND POWER BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL INSTALL DUCT SMOKE DETECTORS AND DAMPERS.
5. FOR LARGER DUCTS, PROVIDE ADDITIONAL DUCT DETECTORS AS REQUIRED BY NFPA 72.
6. EQUIPMENT MUST BE COMPATIBLE WITH THE FIRE ALARM CONTROL PANEL SOFTWARE.
7. EXTEND EXISTING ADDRESSABLE FIRE ALARM SYSTEM INTO NEW CLC CLINIC AREA. PROVIDE LATEST DESIGN AND MODEL DEVICES COMPATIBLE WITH MANUFACTURER, MAKE AND MODEL OF EXISTING FIRE ALARM SYSTEM. PROVIDED ALL REQUIRED CONDUIT, CONDUCTORS, TERMINATORS, SOFTWARE, RE-PROGRAMMING, TESTING, ADDITIONAL POWER SUPPLIES, EXTENDERS, MODULES, ETC., AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. EXISTING DACT COMMUNICATOR TO REMAIN CONNECTED TO UL APPROVED MONITORING SERVICE.
8. THE PUBLIC ADDRESS SYSTEM BEING FURNISHED/INSTALLED AS PART OF A DIVISIONS 28 SPECIFICATION ELECTRICAL DESIGN DOCUMENTS SCOPE OF WORK SHALL BE INTERFACED WITH THE FIRE ALARM SYSTEM. IN THE ADVENT OF AN ALARM CONDITION THE FIRE ALARM SYSTEM SHALL CAUSE SHUTDOWN OF THE PUBLIC ADDRESS SYSTEM WHERE ALL "WHITE NOISE" CAPACITY OF THE PUBLIC ADDRESS SYSTEM SHALL BE SHUTDOWN. ALL INTERFACES, AND PROGRAMMING BETWEEN THE PUBLIC ADDRESS SYSTEM AND THE FIRE ALARM SYSTEM SHALL BE THE DIRECT RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR/INSTALLER.
9. THE FIRE ALARM CONTROL PANEL SUPPORTING THE MAIN TRINKA DAVIS BUILDING SHALL HAVE A SET OF DRY CONTACTS AT THE FACP AND A SET OF DRY CONTACTS SHALL BE AVAILABLE AT THE MAIN TRINKA DAVIS BUILDING'S PUBLIC ADDRESS SYSTEM PANEL TO INITIATE PUBLIC ADDRESS SYSTEM SHUTDOWN DURING A FIRE OR LIFE SAFETY EVENT; WHERE, THE FIRE ALARM SYSTEM TAKES PRECEDENCE OVER THE PUBLIC ADDRESS SYSTEM. THERE IS NOT PUBLIC ADDRESS PANEL AT THE NEW SINGLE STORY TRINKA DAVIS BUILDING.
10. THERE SHALL BE AN INTERFACE BETWEEN THE NEW SINGLE STORY NEW CLC BUILDING'S FACP AND THE MAIN TRINKA DAVIS' FACILITY FACP FOR 24/7 MONITORING VIA A UL LISTED MONITORING STATION.

FIRE ALARM SEQUENCE OF OPERATION

THE FIRE ALARM NOTIFICATION SYSTEM SHALL GO INTO ALARM UPON ACTIVATION OF A MANUAL PULL, AREA SMOKE DETECTOR, DUCT SMOKE DETECTOR, OR FLOW SWITCH. THE ALARM SHALL BE DISPLAYED BY AUDIBLE AND VISUAL NOTIFICATION APPLIANCES. THE AIR HANDLING UNITS WILL SHUTDOWN THROUGH INTERFACE BETWEEN THE FIRE ALARM SYSTEM AND THE AIR HANDLER CONTROL PANEL. THE FIRE ALARM SYSTEM SHALL DISPLAY A TROUBLE CONDITION UNDER LOSS OF POWER, OR IF A SMOKE DETECTOR IS REMOVED FROM THE BASE. THE FIRE ALARM SYSTEM SHALL DISPLAY A SUPERVISORY CONDITION UPON ACTIVATION OF A TAMPER SWITCH OR DUCT SMOKE DETECTOR.

FIRE ALARM INPUT/OUTPUT MATRIX AND RISER DIAGRAM — NTS — 1

INTERIM FIRE ALARM. FIRE EXTINGUISHERS AND FIRE SUPPRESSION REQUIREMENTS

A. FIRE ALARM REQUIREMENTS:

a. THE CONTRACTOR SHALL COORDINATE WITH THE VA FIRE OFFICIAL AS TO THE CLOSEST READILY ACCESSIBLE PUBLIC FIRE ALARM BOX NEAR THE CONSTRUCTION PREMISE TO REPORT A FIRE INCIDENT OR OCCURRENCE.
1. INSTRUCTIONS SHALL BE CREATED AND ISSUED FOR ALL CONTRACTOR AND SUB-TIER CONTRACTORS FOR PROCEDURES FOR IMMEDIATE NOTIFICATION TO THE VA FIRE SAFETY REPRESENTATIVE AND/OR LOCAL FIRE DEPARTMENT IN THE CASE OF A FIRE. WHERE TELEPHONE SERVICE IS EMPLOYED, E.G., CELLULAR OF LAND LINE SERVICE TO THE RESPONDING FIRE DEPARTMENT OR EQUIVALENT FACILITIES.

b. ALL SHUTDOWNS SHALL BE COORDINATED AND APPROVED THROUGH THE COR'S REPRESENTATIVE AND SHALL REQUIRE A MINIMUM OF 15 DAYS ADVANCED NOTICE, THIS TIME LENGTH MAY BE LONGER OF SHORTER FOR SOME SHUTDOWNS AND SHALL BE AT THE COR'S DISCRETION. DRAINING AND REFILLING OF THE EXISTING SYSTEM IS A RESPONSIBILITY OF THE COR'S REPRESENTATIVE.

c. ALL DISRUPTIONS IN THE FIRE SUPPRESSION SYSTEM SHALL BE COMPENSATED WITH AN APPROVED FIRE WATCH AND STANDBY PERSONAL.

B. FIRE EXTINGUISHERS REQUIREMENTS:

a. THE CONSTRUCTION OF THE UNDERGROUND PRIVATE FIRE SERVICE SHALL REQUIRE THE PLACEMENT OF FIRE EXTINGUISHERS AS FOLLOWS:
- PROVIDE AT EACH LOCATION A PORTABLE FIRE EXTINGUISHER SHALL BE PROVIDED WHERE HAZARDS EXIST, SUCH AS THE STORAGE AND USED OF FLAMMABLE AND COMBUSTIBLE LIQUIDS OR COMBUSTIBLE MATERIAL ARE PRESENT WITHIN THE PERIMETER OF THE BUILDING CONSTRUCTION.
- FIRE EXTINGUISHERS SHALL BE LOCATED SO THAT THE TRAVEL DISTANCE TO A FIRE EXTINGUISHER DOES NOT EXCEED FIFTY FEET.
- FIRE EXTINGUISHERS TO BE PROVIDED DURING CONSTRUCTION SHALL BE EQUAL TO AN ABC 10 LB., FIRE EXTINGUISHER DRY CHEMICAL (4A:80B:C) FOR BUSINESS/HEALTHCARE OCCUPANCIES TO INCLUDE THE ENTIRE BUILDING FLOOR AREA.

C. HYDRANTS:

a. FREE ACCESS FROM THE CONSTRUCTION SITE TO THE CLOSEST FIRE HYDRANT OR OTHER FIRE EXTINGUISHING EQUIPMENT; WHETHER PERMANENT OR TEMPORARY SHALL BE PROVIDED AND MAINTAINED BY THE VA FIRE SAFETY REPRESENTATIVE OR EQUIVALENT.

D. FLAMMABLE AND COMBUSTIBLE LIQUIDS:

a. STORAGE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS SHALL BE IN ACCORDANCE WITH NFPA 30 AND NFPA 241, SECTION 5.5

E. FIRE SUPPRESSION REQUIREMENTS DURING CONSTRUCTION:

a. FIRE WATER SUPPLY:

1. THE UNDERGROUND MAINS AND ANY NEW OUTSIDE FIRE HYDRANTS ARE TO BE PROVIDED, AND THEY SHALL BE INSTALLED, COMPLETED, AND IN SERVICE PRIOR TO COMMENCING WITH INTERFACES WITH NEW BUILDINGS.

b. OPERATION OF VALVES. OPERATION OF SPRINKLER CONTROL VALVES SHALL BE PERMITTED ONLY BY AUTHORIZED PERSONNEL AND SHALL BE ACCOMPANIED BY NOTIFICATION OF DULY DESIGNATED PARTIES. WHEN THE SPRINKLER SYSTEM IS BEING REGULARLY TURNED OFF TO FACILITATE CONNECTION OF NEWLY COMPLETED SEGMENTS OF THE NEW UNDERGROUND PIPING TO THE NEW BUILDING. THE SPRINKLER CONTROL VALVE SHALL BE CHECKED AT THE END OF EACH WORK DAY TO ASCERTAIN THAT THE PROTECTION IS IN SERVICE WHETHER BY THE NEW SITE WIDE FIRE SUPPRESSION SERVICE OR PRIOR EXISTING CONDITIONS.

FIRE ALARM GENERAL NOTES AND REQUIREMENTS

A. ALL ELECTRICAL INTERFACES FOR REMOTE-CONTROL, SIGNALING AND POWER LIMITED CIRCUITS (CLASS 1, 2 & 3) TO ALL FIRE SUPPRESSION AND ALARM EQUIPMENT IS BY THE FIRE SUPPRESSION / FIRE ALARM CONTRACTOR. COORDINATION BETWEEN THE FIRE ALARM AND FIRE SUPPRESSION CONTRACTOR IS REQUIRED.

B. THE NEW FIRE ALARM CONTROL PANEL AT THE NEW SINGLE STORY CLC BUILDING MUST INCLUDE TO THE EXTERIOR OF THE FACP A WALL-MOUNTED PATCH PANEL (SIZED TO TERMINATE 24 STRANDS, 12 STRANDS TO/FROM THE EXISTING TINKER DAVIS BUILDING AND NEW SINGLE STORY CLC). THE COMMUNICATION IS HANDLED THROUGH NETWORK CARDS INSTALLED IN THE NEW FACP WITHIN THE NEW SINGLE STORY CLC BUILDING AND SHALL INCLUDE FIBER OPTICS INSTALLATIONS AS SHOWN THE FIRE ALARM DRAWINGS INCLUDING ABOVE GROUND AND BELOW GROUND NETWORK INSTALLATIONS.

C. THE NEW SINGLE STORY CLC BUILDING SHALL SHALL RECEIVE AN ALARM, SUPERVISORY, OR TROUBLE SIGNAL FROM LOCAL FIRE-ALARM CONTROL UNIT WITHIN THE SINGLE STORY CLC BUILDING AND AUTOMATICALLY TRANSMIT THROUGH THE TINKER DAVIS NETWORK MEETING THE REQUIREMENTS OF SECTION 27.4 OF NFPA 72 TO THE MAIN TINKER DAVIS FACILITY BUILDING. THERE SHALL BE REDUNDANT PATHWAYS THAT SHALL BE ROUTED IN TOTALLY SEPARATE CONDUITS AND MEET THE REQUIREMENTS OF NFPA 72, SECTION 12.3.7 FOR A CLASS X CIRCUIT AND PATHWAY THE NEW SINGLE STORY CLC BUILDING AND THE EXISTING TINKER DAVIS FACILITY BUILDING MAIN FIRE ALARM CONTROL PANEL. ALL COMMUNICATION IS HANDLED THROUGH NETWORK CARDS INSTALLED BETWEEN THE NEW SINGLE STORY CLC BUILDING FACP AND THE EXISTING TINKER DAVIS BUILDING MAIN FACP.

D. THE NEW SINGLE STORY TINKER DAVIS CLC BUILDING'S LOCAL FIRE ALARM CONTROL PANEL SHALL NOTIFY THE CARROLLTON, GEORGIA FIRE DEPARTMENT DIRECTLY FOR ALL ALARM CONDITIONS IN ADDITION TO THE TINKER DAVIS FACILITY MAIN FIRE ALARM CONTROL PANEL.

E. THE SIGNAL FORMAT AT NEW SINGLE STORY TINKER DAVIS CLC BUILDING'S FIRE ALARM CONTROL PANEL NETWORK CARD/PATCH PANEL SHALL BE COMPATIBLE WITH THE EXISTING FIRE ALARM CONTROL PANEL(S) LOCATED AT THE EXISTING TINKER DAVIS BUILDING, ROOM E048; THIS IS A PROJECT SCOPE OF WORK REQUIREMENT. THE NEW SINGLE STORY TINKER DAVIS CLC BUILDING FIRE ALARM CONTROL PANEL SHALL BE ABLE TO TRANSMIT AND RECEIPT OF SIGNALS BOTH WAYS, E.G., SINGLE MODE COMMUNICATION AND BE 100% COMPATIBLE.

F. REFER TO DIVISION 28 SPECIFICATIONS, FA001 AND FA003 FOR CIRCUIT AND PATHWAY REQUIREMENTS FOR THIS SCOPE OF WORK BETWEEN THE NEW SINGLE STORY CLC BUILDING AND THE MAIN TINKER DAVIS MAIN FIRE ALARM CONTROL PANEL, AS WELL AS, INITIATING DEVICE CIRCUITS (IDCS), SIGNALING LINE CIRCUITS (SLCS) AND NOTIFICATION APPLIANCE CIRCUITS (NACS).

G. REFER TO THE INPUT/OUTPUT MATRIX FOR ALL SIGNAL INPUTS TO BE RECEIVED AT THE NEW SINGLE STORY TINKER DAVIS CLC BUILDING AND THE EXISTING TINKER DAVIS MAIN FIRE ALARM CONTROL PANEL FOR THE 24-HOUR UL MONITORING STATION TO MEET NFPA 72 REQUIREMENTS.

FIRE WATCH PROCEDURES AND REQUIREMENTS

A. THE FIRE WATCH PERSONNEL SHALL BE TRAINED TO UNDERSTAND THE INHERENT HAZARDS OF THE WORK SITE AND OF THE HOT WORK TO OCCUR.
B. THE FIRE WATCH SHALL ENSURE THAT SAFE CONDITIONS ARE MAINTAINED DURING OUTAGE OF THE FIRE ALARM/FIRE SUPPRESSION SYSTEM AND/OR DURING THE OCCURRENCE OF HOT WORK OPERATION.
C. THE FIRE WATCH SHALL HAVE THE AUTHORITY TO STOP HOT WORK OPERATIONS IF UNSAFE OPERATIVE DEVELOPS.
D. THE FIRE WATCH SHALL HAVE FIRE EXTINGUISHING EQUIPMENT READILY AVAILABLE AND TRAINED IN ITS USE, E.G., FIRE EXTINGUISHERS.
E. THE FIRE WATCH SHALL BE FAMILIAR WITH OWNER'S FACILITIES AND PROCEDURES FOR SOUNDING AN ALARM IN THE EVENT OF A FIRE.
F. THE FIRE WATCH SHALL WATCH FOR FIRES IN ALL EXPOSED AREAS AND TRY TO EXTINGUISH A FIRE ONLY WHEN THE FIRES ARE OBVIOUSLY WITHIN THE CAPACITY OF THE AVAILABLE EXTINGUISHING EQUIPMENT. IF THE FIRE WATCH DETERMINES THAT THE FIRE IS NOT WITHIN THE CAPACITY OF THE EQUIPMENT THE FIRE WATCH SHALL SOUND AN ALARM IMMEDIATELY (E.G.,INITIATE A MANUALLY ACTUATED ALARM INDICATING DEVICE THAT IS OUTSIDE OF THE CONSTRUCTION AREA DURING THE DISRUPTION OF THE FIRE ALARM/DETECTION WITHIN THE CONSTRUCTION WORK SCOPE OR WITHIN THE CONSTRUCTION WORK SCOPE IF THE FIRE ALARM/DETECTION SYSTEM HAS BEEN ACTIVATED).
G. BEFORE STARTING ANY HOT WORK, CONTRACTORS AND THEIR OWNERS SHALL DISCUSS THE PLANNED PROJECT COMPLETELY INCLUDING THE TYPE OF HOT WORK TO BE CONDUCTED AND THE HAZARDS IN THE AREA WITH THE ASSOCIATED PLAN OF ACTION. IN ORDER, TO PROVIDE EQUIVALENT SAFETY MEASURES TAKEN DURING THE FIRE DETECTION OR FIRE SUPPRESSION IMPAIRMENT.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON / CHARLOTTE ENGINEERS

ARCHITECT, STRUCTURAL ENGINEER	FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE ALARM - INPUT/OUTPUT MATRIX & TEMPORARY REQUIREMENTS

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: GAT | Drawn: JRC

Project Number: 508-349

Building Number:

Drawing Number: FA003

Autodesk Docs://22.9003 - VA Atlanta Tinka Davis CLC/4792 - CE Central Model.rvt

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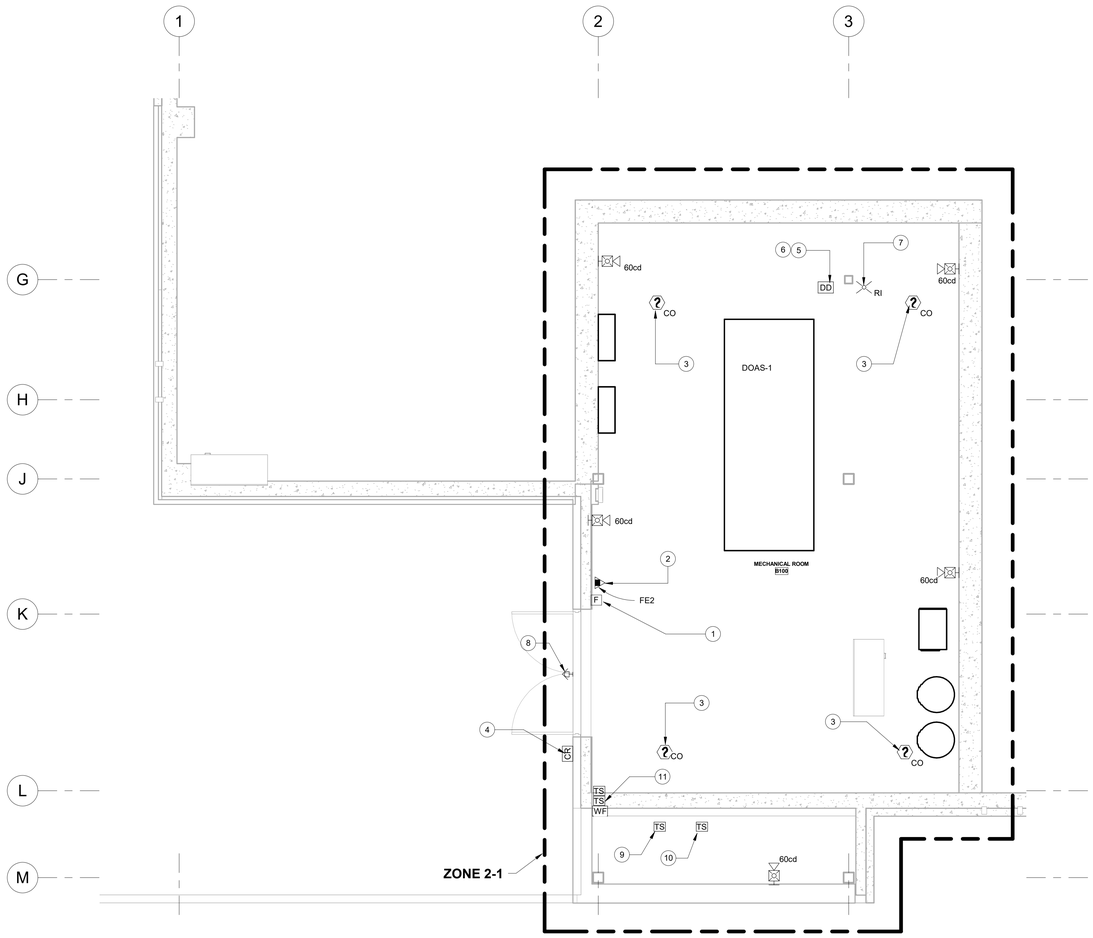


1 FIRE ALARM - BASEMENT - NEW WORK
1/4" = 1'-0"

NEW WORK KEYED NOTES

1. MANUAL FIRE ALARM PULL STATION SHALL BE LOCATED WITHIN 60 INCHES OF THE EXIT DOORWAY MEETING THE REQUIREMENTS OF NFPA 72, SECTION 17.15.9.4 AND INTERNATIONAL BUILDING CODE, SECTION 907.4.2.
2. CLASS ABC FIRE EXTINGUISHERS SHALL BE PROVIDED FOR MECHANICAL EQUIPMENT ROOM WHERE, MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 50 FEET FOR ORDINARY HAZARD MEETING THE REQUIREMENTS OF NFPA 10, TABLE 6.3.1.1 FOR A MINIMUM FIRE EXTINGUISHER RATING OF 20-B.
3. CARBON MONOXIDE (CO) SMOKE DETECTOR SHALL BE PROVIDED FOR EARLY WARNING SIGNAL THAT SHALL BE TRANSMITTED TO THE FIRE ALARM CONTROL PANEL FOR PROJECTION OF HIGH MONOXIDE LEVELS WITHIN THE MECHANICAL ROOM WHERE HOT WATER HEATERS SHALL BE LOCATED MEETING NFPA 72, SECTION 17.8.2.1.
4. NO FIRE ALARM INTERFACE.
5. CONNECT DUCT SMOKE DETECTOR IN THE HVAC SYSTEM TO ACTIVATE THE FIRE ALARM SYSTEM AND SHUTDOWN OF THE HVAC SYSTEM IN THE EVENT OF SMOKE DETECTED WITHIN THE DUCTS.
6. ALL DUCT SMOKE DETECTORS LOCATED IN THE HVAC SYSTEM SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR; AND ALL FIRE ALARM INTERFACE, BETWEEN THE DUCT SMOKE DETECTOR AND THE MAIN FIRE ALARM CONTROL PANEL, IS THE RESPONSIBILITY OF THE FIRE DETECTION CONTRACTOR/INSTALLER.
7. FURNISH AND INSTALL DUCT SMOKE DETECTOR TEST STATIONS IN THE CEILING TO SHOW LOCATIONS OF DETECTOR WHEN IN ALARM OR TROUBLE INDICATION.
8. WATER MOTOR ALARM GONG.
9. TAMPER SWITCH FOR 2-1/2 INCH FLOOR CONTROL VALVE ASSEMBLY NO 2-1 WITH DRAIN FOR BASEMENT SPRINKLER SYSTEM.
10. TAMPER SWITCH FOR 4 INCH FLOOR CONTROL VALVE ASSEMBLY NO 1-1 WITH DRAIN FOR FIRST FLOOR BASEMENT SPRINKLER SYSTEM.
11. TAMPER / WATER FLOW SWITCHES FOR WET PIPE SPRINKLER ASSEMBLY.

FIRE ALARM GENERAL NOTES

A. REFER TO DRAWING FA-001 FOR FIRE ALARM GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.

B. REFER TO DRAWING FA-003 FOR FIRE ALARM INPUT / OUTPUT MATRIX. ALL FIRE ALARM DEVICES SHALL BE INTERFACED WITH THE EXISTING FIRE ALARM SYSTEM AND PROGRAMMING OF THE NEW POINTS AT THE LOCAL AND MAIN FIRE ALARM CONTROL PANELS.

C. REFER TO DRAWING FX-003 FOR IMPAIRMENT REQUIREMENTS AND PROCEDURES THAT SHALL BE MET BY THE CONTRACTOR PRIOR TO THE REMOVAL AND/OR DEACTIVATION OF ANY FIRE DETECTION DEVICE.

D. THE INFORMATION GIVEN HEREIN IS AS EXACT AS COULD BE SECURED FOR BIDDING PURPOSES AND ITS ACCURACY IS NOT GUARANTEED. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR EXAMINING NEW JOB CONDITIONS AND VERIFYING ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, PIPE SIZES, ETC., BEFORE STARTING THE DEMOLITION OR NEW WORK.

E. THE DRAWING SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE WHEN INDICATED FOR GENERAL REFERENCE ONLY.

F. VISUAL ALARM NOTIFICATION APPLIANCES SHALL BE PROVIDED IN PUBLIC USE AREAS AND COMMON USE AREAS FOR COMPLIANCE WITH THE VA FIRE PROTECTION DESIGN MANUAL.

G. MANUAL FIRE ALARM PULL STATIONS SHALL BE LOCATED WITHIN 60 INCHES OF EACH EXIT DOORWAY.

H. NO PIPING SHALL BE ROUTED OVER THE TOP OF ELECTRIC PANELS OF ANY KIND WITHIN MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT.

I. THE FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM INCLUDING INDIVIDUALLY ADDRESSED DEVICES.

J. A FIRE WATCH SHALL BE PROVIDED FOR AREAS WITH INTERRUPTIONS IN FIRE ALARM SERVICE.

K. ALL ALARM DEVICE LOCATIONS SHALL BE COORDINATED WITH LIGHT FIXTURES, HVAC DIFFUSERS, SPRINKLERS, SIGNS, AND OTHER MEP TRADES PRIOR TO CONSTRUCTION.

L. THE CONTRACTOR SHALL ADHERE TO THE SEPARATION DISTANCES BETWEEN SPEAKER STROBES SHOWN ON THESE CONTRACT DRAWINGS; SINCE, PER THE VA FIRE PROTECTION DESIGN MANUAL SECTION 7.3.F(2)(k) THE VA FPDM CLEARLY STATES THAT " SPEAKERS MUST BE INSTALLED AND ARRANGED SO THEY ARE CLEARLY HEARD AND UNDERSTOOD BY STAFF UNDER NORMAL WORKING CONDITIONS. A RULE OF THUMB FOR SPEAKER LAYOUT IS TO INSTALL THEM EVERY TWENTY-FIVE TO THIRTY FEET ON CENTER AND NOT TO EXPECT THEM TO CLEARLY HEARD THROUGH MORE THAN ONE WALL."

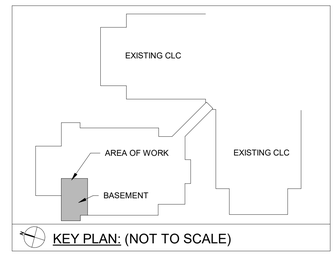
M. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE DESIGN OF THE FIRE ALARM SYSTEMS AND SHALL PROVIDE SEALED SHOP DRAWINGS. FIRE ALARM DEVICE LAYOUTS, DEVICES COUNTS, CONDUCTOR TYPES, WIRING DIAGRAMS, I/O MATRIX, RISER DIAGRAMS, AND BATTERY CALCULATIONS SHALL BE SEALED BY AN PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA. OR A NICET LEVEL III OR LEVEL IV FIRE ALARM DESIGNER.

FIRE ALARM SYMBOLS

F	HEAT DETECTOR - FIXED TEMPERATURE
	FIRE EXTINGUISHER, DRY CHEMICAL FOR ALL TYPES OF FIRES
F	ALARM, FIRE, MANUAL PULL STATION.
	ALARM, LAMP LIGHT, SIGNAL LIGHT STROBE.
	WALL MOUNTED STROBE
C	WALL MOUNTED SPEAKER-STROBE
WF	FIRE SUPPRESSION WATER FLOW SWITCH TO SPRINKLER SYSTEM
TS	FIRE SUPPRESSION TAMPER SWITCH TO SPRINKLER SYSTEM
FACP	FIRE ALARM CONTROL PANEL

FIRE EXTINGUISHER SCHEDULE

FE2	FIRE EXTINGUISHER, 20 LB (10A:120B:C) MULTI PURPOSE DRY CHEMICAL FOR MECHANICAL ROOM AREAS
FE3	FIRE EXTINGUISHER, 20 LB (40B:C) CARBON DIOXIDE FOR ELECTRIC ROOMS



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE
4 0 2 4 8 16
(in Feet)
1 inch = 4 ft.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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GEORGIA REGISTERED No. PE031384 PROFESSIONAL ENGINEER JOHN RICHARD CALLAHAN

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE ALARM - BASEMENT FLOOR PLAN

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024

Checked: GAT

Drawn: JRC

Project Number: 508-349

Building Number:

Drawing Number: FA100

12/16/2024 12:56:58 PM

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC/4792 - CE Central Model.rvt

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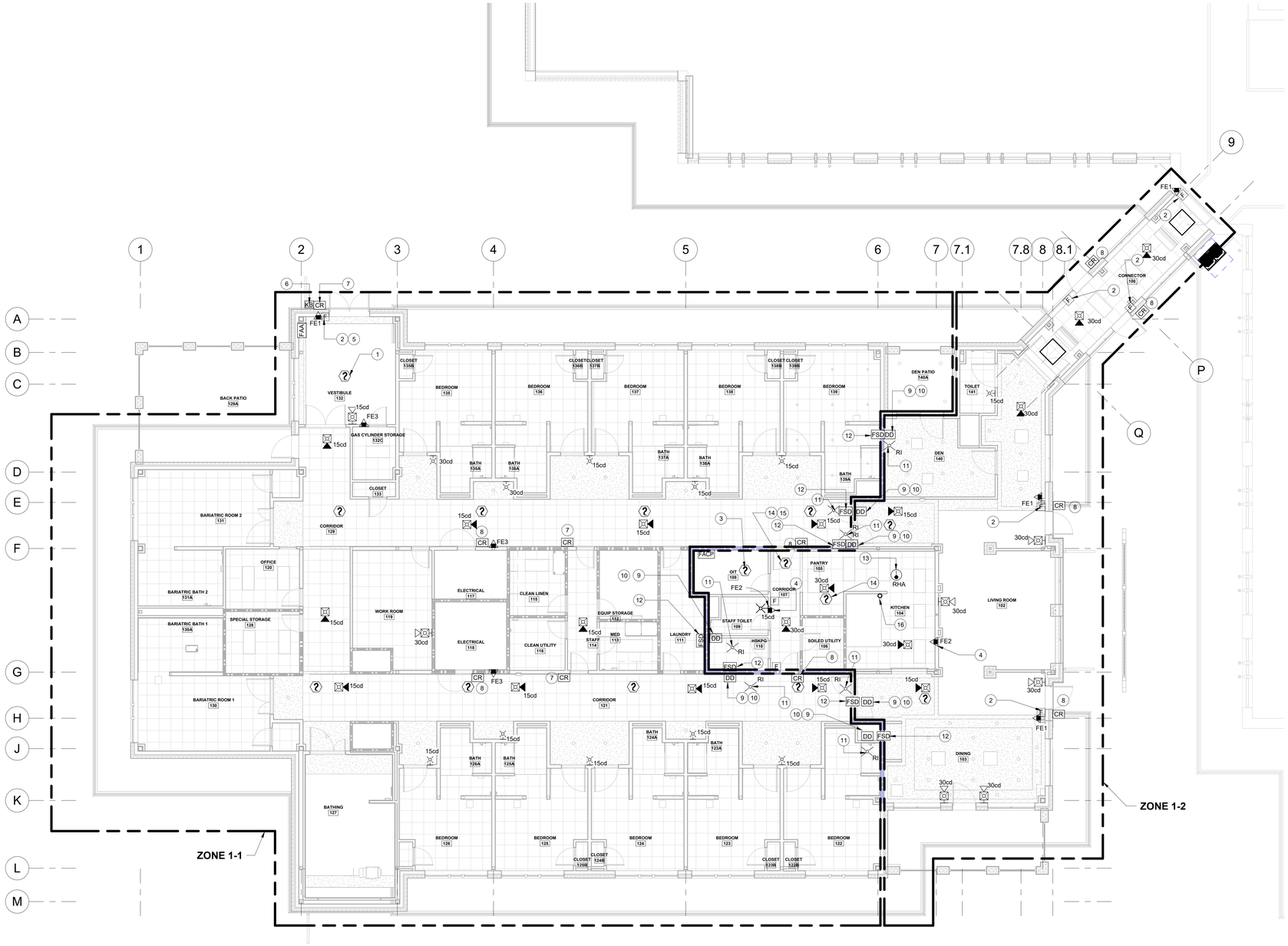


1 FIRE ALARM - FIRST FLOOR PLAN
1/8" = 1'-0"

FIRE ALARM GENERAL NOTES

A. REFER TO DRAWING FA-001 FOR FIRE ALARM GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.

B. REFER TO DRAWING FA-003 FOR FIRE ALARM INPUT / OUTPUT MATRIX. ALL FIRE ALARM DEVICES SHALL BE INTERFACED WITH THE EXISTING FIRE ALARM SYSTEM AND PROGRAMMING OF THE NEW POINTS AT THE LOCAL AND MAIN FIRE ALARM CONTROL PANELS.

C. REFER TO DRAWING FX-003 FOR IMPAIRMENT REQUIREMENTS AND PROCEDURES THAT SHALL BE MET BY THE CONTRACTOR PRIOR TO THE REMOVAL AND/OR DEACTIVATION OF ANY FIRE DETECTION DEVICE.

D. THE INFORMATION GIVEN HEREIN IS AS EXACT AS COULD BE SECURED FOR BIDDING PURPOSES AND ITS ACCURACY IS NOT GUARANTEED. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR EXAMINING NEW JOB CONDITIONS AND VERIFYING ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, PIPE SIZES, ETC., BEFORE STARTING THE DEMOLITION OR NEW WORK.

E. THE DRAWING SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE WHEN INDICATED FOR GENERAL REFERENCE ONLY.

F. VISUAL ALARM NOTIFICATION APPLIANCES SHALL BE PROVIDED IN PUBLIC USE AREAS AND COMMON USE AREAS FOR COMPLIANCE WITH SECTION 18.5 OF NFPA 72 AND THE VA FIRE PROTECTION DESIGN MANUAL.

G. NO PIPING SHALL BE ROUTED OVER THE TOP OF ELECTRIC PANELS OF ANY KIND WITHIN MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT.

H. A FIRE WATCH SHALL BE PROVIDED FOR AREAS WITH INTERRUPTIONS IN FIRE ALARM SERVICE.

I. ALL ALARM DEVICE LOCATIONS SHALL BE COORDINATED WITH LIGHT FIXTURES, HVAC DIFFUSERS, SPRINKLERS, SIGNS, AND OTHER MEP TRADES PRIOR TO CONSTRUCTION.

J. THE CONTRACTOR SHALL ADHERE TO THE SEPARATION DISTANCES BETWEEN SPEAKER STROBES SHOWN ON THESE CONTRACT DRAWINGS; SINCE, PER THE VA FIRE PROTECTION DESIGN MANUAL SECTION 7.3.F(2)(k) THE VA FPDM CLEARLY STATES THAT " SPEAKERS MUST BE INSTALLED AND ARRANGED SO THEY ARE CLEARLY HEARD AND UNDERSTOOD BY STAFF UNDER NORMAL WORKING CONDITIONS. A RULE OF THUMB FOR SPEAKER LAYOUT IS TO INSTALL THEM EVERY TWENTY-FIVE TO THIRTY FEET ON CENTER AND NOT TO EXPECT THEM TO CLEARLY HEARD THROUGH MORE THAN ONE WALL."

NEW WORK KEYED NOTES

1. AN ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR SHALL BE PROVIDED THE VESTIBULE WHERE THE FIRE ALARM ANNUNCIATOR PANEL IS LOCATED TO PROVIDE AN EARLY WARNING SIGNAL THAT SHALL BE TRANSMITTED TO THE BUILDING MAIN FIRE ALARM CONTROL PANEL FOR COMPLIANCE WITH NFPA 72, SECTION 10.4.5.
2. MANUAL FIRE ALARM PULL STATION SHALL BE LOCATED WITHIN 60 INCHES OF THE EXIT DOORWAY MEETING THE REQUIREMENTS OF NFPA 72, SECTION 17.15.9.4 AND INTERNATIONAL BUILDING CODE, SECTION 907.4.2.
3. AN ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR, THERMAL RATE OF RISER HEAT DETECTOR AND INFRA RED MULTI-CRITERIA DETECTOR SHALL BE PROVIDED THE ELECTRIC ROOM WHERE THE FIRE ALARM CONTROL PANEL IS LOCATED TO PROVIDE AN EARLY WARNING SIGNAL THAT SHALL BE TRANSMITTED TO THE BUILDING MAIN FIRE ALARM CONTROL PANEL FOR COMPLIANCE WITH NFPA 72, SECTION 10.4.5.
4. CLASS K FIRE EXTINGUISHERS SHALL BE PROVIDED FOR HAZARDS WHERE THERE IS A POTENTIAL FOR FIRES INVOLVING COMBUSTIBLE COOKING MEDIA AND THE MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FEET FROM THE HAZARD TO THE FIRE EXTINGUISHERS MEETING NFPA 10, SECTION 6.6 REQUIREMENTS.
5. GAS STORAGE ROOM SHALL BE HAVE ACCESS TO AT LEAST ONE MANUAL PULL STATION IN AN ACCESSIBLE LOCATION AT A MINIMUM OF 25 FEET FROM THE GAS STORAGE, ROOM 132C.
6. PROVIDE KNOX BOX, RECESSED MOUNT WITH TAMPER ALERT SWITCH. KNOX BOX TO BE INTERFACED WITH TRINKA DAVIS LOCAL AND MAIN BUILDING'S FIRE ALARM CONTROL PANEL. COLOR OF KNOX BOX TO BE CHOSEN DURING SUBMITTAL REVIEW PROCESS; STANDARD COLORS SHALL BE USED FOR PRICING PURPOSES DURING BID EVALUATION.
7. CARD READERS BEING PROVIDED SHALL BE INTERFACED WITH THE POWER AND FIRE ALARM SYSTEM. ALL ACCESS CONTROL DOORS WITH CARD READER ACCESS SHALL HAVE DOOR UNLOCKING CONTROL THAT SHALL MEET THE REQUIREMENTS OF NFPA 72, SECTION 23.15.4, "ELECTRICALLY LOCKED DOORS". SECTION 21.9, "ELECTRICALLY LOCKED DOORS", AND THE REQUIREMENTS OF NFPA 101, SECTION 7.2.1.6.2. REFER TO DIVISION 28 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
8. CARD READER HAS NO FIRE ALARM INTERFACE.
9. ALL DUCT SMOKE DETECTORS LOCATED IN THE HVAC SYSTEM SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR; AND ALL FIRE ALARM INTERFACE, BETWEEN THE DUCT SMOKE DETECTOR AND THE MAIN FIRE ALARM CONTROL PANEL, IS THE RESPONSIBILITY OF THE FIRE DETECTION CONTRACTOR/INSTALLER.
10. CONNECT DUCT SMOKE DETECTOR IN THE HVAC SYSTEM TO ACTIVATE THE FIRE ALARM SYSTEM AND SHUTDOWN OF THE HVAC SYSTEM IN THE EVENT OF SMOKE DETECTED WITHIN THE DUCTS.
11. FURNISH AND INSTALL DUCT SMOKE DETECTOR TEST STATIONS IN THE CEILING TO SHOW LOCATIONS OF DETECTOR WHEN IN ALARM OR TROUBLE INDICATION.
12. FIRE/SMOKE DAMPERS SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR AND ALL FIRE ALARM INTERFACES BETWEEN THE FIRE/SMOKE DAMPER AND THE MAIN FIRE ALARM CONTROL PANEL IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR/INSTALLER.
13. THE COMBINATION RATE-OF-RISE/FIXED TEMPERATURE HEAT SENSOR (RHA) ADDRESSABLE COMBINATION TEMPERATURE HEAT SENSOR SHALL HAVE A FIXED TEMPERATURE POINT FROM 135 DEG F TO 174 DEG F AND A RATE OF RISE FEATURE. THE RATE-OF-RISE SHALL OPERATE WHEN THE TEMPERATURE INCREASES 12 TO 15 DEG F. THIS COMBINATION DETECTOR SHALL BE PROVIDED FOR EARLIER HEAT DETECTION.
14. PROVIDE NOT LESS THAN TWO AC-POWERED PHOTOELECTRIC SMOKE DETECTORS WITH BATTERY BACKUP AND EQUIPPED WITH A SILENCE FEATURE NOT CLOSER THAN 20 FEET AND NOT FURTHER THAN 25 FEET FROM THE COOKTOP OR RANGE.
15. THE SMOKE DETECTORS PROVIDED IN KEY NOTE 14 SHALL PROVIDE THE FOLLOWING CRITERIA MUST BE MET [REFERENCE NFPA 101, SECTION 18.3.2.5.3(13)]:
    a. THE DETECTOR IS LOCATED NOT CLOSER THAN 20 FEET AND NOT FURTHER THAN 25 FEET FROM THE COOKTOP OR RANGE.
    b. THE DETECTOR IS PERMITTED TO INITIATE A LOCAL AUDIBLE ALARM SIGNAL ONLY.
    c. THE DETECTOR IS NOT REQUIRED TO INITIATE A BUILDING WIDE OCCUPANT NOTIFICATION SIGNAL.
    d. IHE DETECTOR IS NOT REQUIRED TO NOTIFY EMERGENCY FORCES.
    e. THE LOCAL AUDIBLE SIGNAL INITIATED BY THE DETECTOR IS PERMITTED TO BE SILENCED AND RESET BY A BUTTON ON THE DETECTOR OR BY A CONTRACTOR INSTALLED SWITCH INSTALLED WITHIN 10 FEET OF THE SYSTEM SMOKE DETECTOR.
16. WET CHEMICAL CYLINDER AND WET CHEMICAL SUPPRESSION FIRE ALARM CONTROL SYSTEM WITH INTERFACE TO FIRE ALARM CONTROL UNIT LOCATED IN OIT ROOM 108 .

WALL RATING LEGEND

- 2 HR FIRE RATED
- 1 HR FIRE RATED
- 1 HR SMOKE BARRIER
- SMOKE PARTITION

WORK AREAS OUTSIDE OF A RATED CONSTRUCTION BARRIER

CONTRACTOR SHALL BE REQUIRED TO PROVIDE/INSTALL THE REPLACEMENT OF CEILING TILES AT THE END OF EACH SHIFT FOR WORK AREAS OUTSIDE A RATED CONSTRUCTION BARRIER. IF THE TILES CAN NOT BE REPLACED THE SPRINKLER SYSTEM MAY BE CONSIDERED OUT OF SERVICE IN THESE AREAS AND A 1-HOUR FIRE RATED SEPARATION WILL BE REQUIRED BETWEEN THE CONSTRUCTION AREA AND THE OCCUPIED PORTION OF THE BUILDING.

REFERENCE NFPA 1, PARAGRAPH 13.3.3.3

MISCELLANEOUS

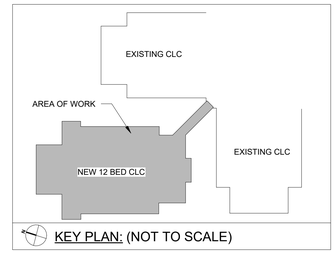
RHA = RATE OF RISE/FIXED TEMPERATURE HEAT DETECTOR

FIRE EXTINGUISHER SCHEDULE

FE1	FIRE EXTINGUISHER, 20 LB (4A:80B:C) DRY CHEMICAL FOR OFFICE AREAS AND HEALTH CARE FINISHED SPACES
FE2	FIRE EXTINGUISHER, 20 LB (2A:K) WET CHEMICAL FOR COMMERCIAL KITCHEN
FE3	FIRE EXTINGUISHER, 20 LB (40B:C) CARBON DIOXIDE FOR ELECTRIC ROOMS AND COMPRESSED GAS STORAGE ROOM.

FIRE ALARM SYMBOLS

- F — HEAT DETECTOR - FIXED TEMPERATURE
- FE1 — FIRE EXTINGUISHER, DRY CHEMICAL FOR ALL TYPES OF FIRES
- F — ALARM, FIRE, MANUAL PULL STATION.
- ALARM, LAMP LIGHT, SIGNAL LIGHT STROBE.
- WALL MOUNTED STROBE
- C — WALL MOUNTED SPEAKER-STROBE
- WF — FIRE SUPPRESSION WATER FLOW SWITCH TO SPRINKLER SYSTEM
- TS — FIRE SUPPRESSION TAMPER SWITCH TO SPRINKLER SYSTEM
- FACP — FIRE ALARM CONTROL PANEL



KEY PLAN: (NOT TO SCALE)

Revisions:	Date:

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STAMP John Callahan

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	FIRE ALARM - FIRST FLOOR PLAN
Approved:	
Phase	BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	CONSTRUCT TDVV CLC 12 BEDS
Location	180 MARTIN DR, CARROLLTON, GA 30117
Issue Date	12/16/2024
Checked	GAT
Drawn	JRC
Project Number	508-349
Building Number	
Drawing Number	FA110

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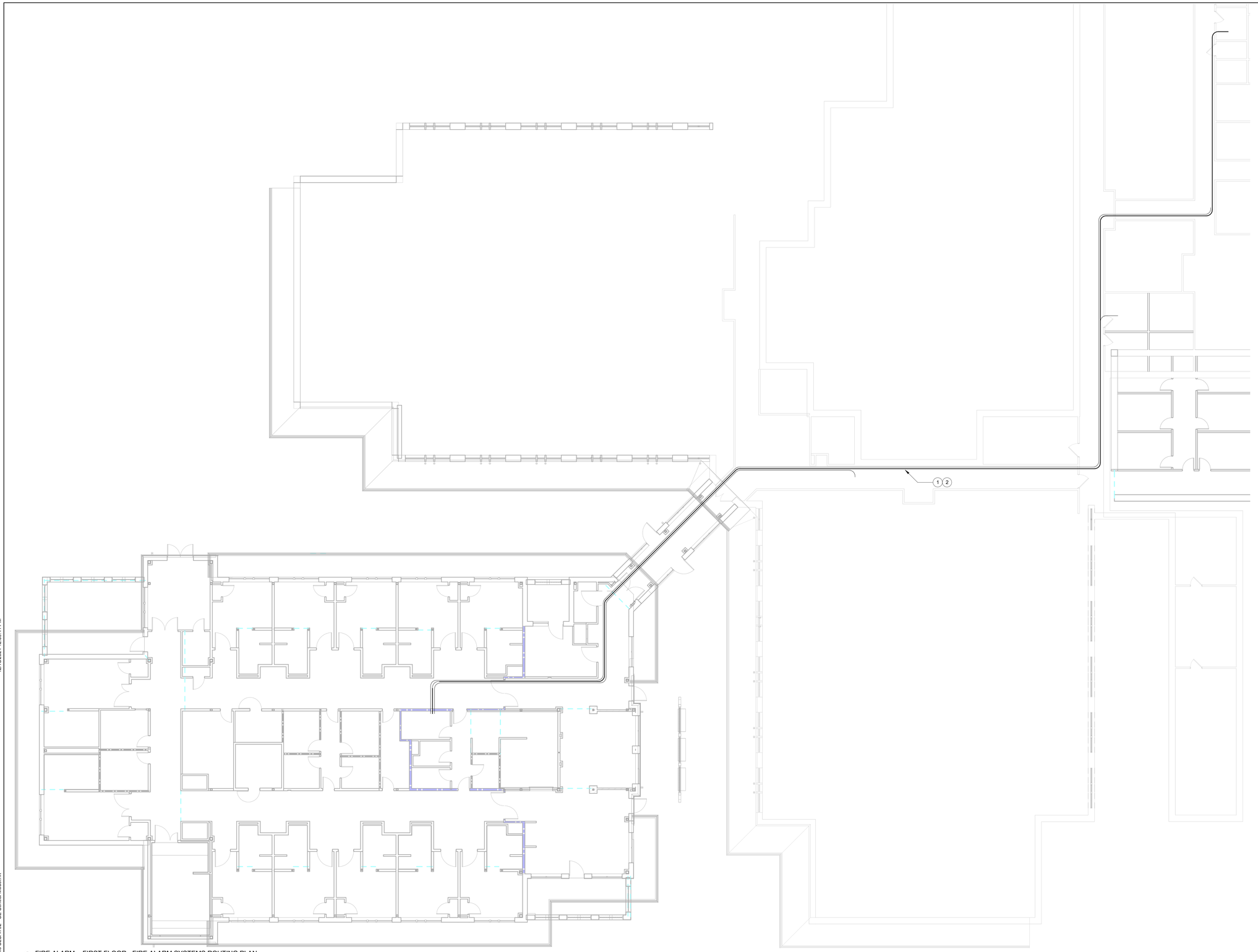


1 FIRE ALARM - FIRST FLOOR - FIRE ALARM SYSTEMS ROUTING PLAN
1" = 10'-0"

FIRE ALARM GENERAL NOTES

A. REFER TO DRAWING FA-001 FOR FIRE ALARM GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.

B. REFER TO DRAWING FA-003 FOR FIRE ALARM INPUT / OUTPUT MATRIX. ALL FIRE ALARM DEVICES SHALL BE INTERFACED WITH THE EXISTING FIRE ALARM SYSTEM AND PROGRAMMING OF THE NEW POINTS AT THE LOCAL AND MAIN FIRE ALARM CONTROL PANELS.

C. REFER TO DRAWING FX-003 FOR IMPAIRMENT REQUIREMENTS AND PROCEDURES THAT SHALL BE MET BY THE CONTRACTOR PRIOR TO THE REMOVAL AND/OR DEACTIVATION OF ANY FIRE DETECTION DEVICE.

D. THE INFORMATION GIVEN HEREIN IS AS EXACT AS COULD BE SECURED FOR BIDDING PURPOSES AND ITS ACCURACY IS NOT GUARANTEED. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR EXAMINING NEW JOB CONDITIONS AND VERIFYING ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, PIPE SIZES, ETC., BEFORE STARTING THE DEMOLITION OR NEW WORK.

E. THE DRAWING SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE WHEN INDICATED FOR GENERAL REFERENCE ONLY.

F. VISUAL ALARM NOTIFICATION APPLIANCES SHALL BE PROVIDED IN PUBLIC USE AREAS AND COMMON USE AREAS FOR COMPLIANCE WITH THE VA FIRE PROTECTION DESIGN MANUAL.

G. MANUAL FIRE ALARM PULL STATIONS SHALL BE LOCATED WITHIN 60 INCHES OF EACH EXIT DOORWAY.

H. NO PIPING SHALL BE ROUTED OVER THE TOP OF ELECTRIC PANELS OF ANY KIND WITHIN MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT.

I. THE FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM INCLUDING INDIVIDUALLY ADDRESSED DEVICES.

J. THE EXISTING BUILDING'S LOCAL FIRE ALARM CONTROL PANEL SHALL REMAIN IN SERVICE AT ALL TIMES THROUGHOUT THE NEW ADDITION AS SHOWN ON THESE CONTRACT DOCUMENTS; SPECIAL PROVISIONS SHALL BE MADE BETWEEN THE FIRE ALARM CONTRACTOR AND THE ENGINEER OF RECORD AND THE COR'S REPRESENTATIVE TO DISCONNECT POWER TO THE AREAS OF THE NEW WORK TO MINIMIZE THE INTERRUPTIONS IN THE FIRE ALARM SERVICE.

K. A FIRE WATCH SHALL BE PROVIDED FOR AREAS WITH INTERRUPTIONS IN FIRE ALARM SERVICE.

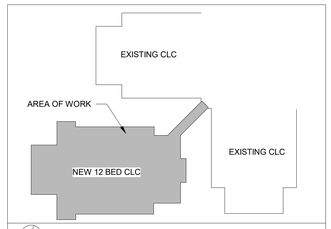
L. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE DESIGN OF THE FIRE ALARM SYSTEMS AND SHALL PROVIDE SEALED SHOP DRAWINGS. FIRE ALARM DEVICE LAYOUTS, DEVICES COUNTS, CONDUCTOR TYPES, WIRING DIAGRAMS, I/O MATRIX, RISER DIAGRAMS, AND BATTERY CALCULATIONS SHALL BE SEALED BY AN PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA. OR A NICET LEVEL III OR LEVEL IV FIRE ALARM DESIGNER.

NEW WORK KEYED NOTES

1. PROPOSED PATH OF CONDUIT ROUTED ABOVE CEILING THROUGH EXISTING CORRIDOR FROM MAIN IT COMMUNICATIONS ROOM E048 TO NEW OIT ROOM 1179.
2. PROVIDE 1-3" CONDUITS ABOVE ARCHITECTURAL CEILING FOR FIRE ALARM COMMUNICATION WIRING. COORDINATE WITH COR PRIOR TO ROUGH-IN.

WALL RATING LEGEND

- 2 HR FIRE RATED
- 1 HR FIRE RATED
- 1 HR SMOKE BARRIER
- SMOKE PARTITION



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE

10 0 5 10 20 40

(in Feet)

1 inch = 10 ft.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE ALARM - FIRST FLOOR - FIRE ALARM SYSTEMS ROUTING PLAN

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024

Checked: GAT

Drawn: JRC

Project Number: 508-349

Building Number:

Drawing Number: FA111

Autodesk Docs://22.9003 - VA Atlanta Tinka Davis CLC/4792 - CE Central Model.rvt

12/16/2024 12:59:41 PM

VA FORM 08 - 6231

FIRE PROTECTION GENERAL NOTES

1. THE NEW SPRINKLER SYSTEM SHALL BE SIZED IN ACCORDANCE WITH NFPA 13 AND SHALL BE HYDRAULICALLY CALCULATED TO MEET THE REQUIREMENTS OF NFPA 13 AND APPROVED BY THE VA FIRE SAFETY OFFICIAL, THE ENGINEER, AND THE ARCHITECT. THE FIRE SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FLOW TEST DATA TO PERFORM AS A BASIS OF THEIR CALCULATIONS.
2. THE SYSTEM SHALL BE DESIGNED AND BUILT IN A WORKMANLIKE MANNER, IN ACCORDANCE WITH DETAILED DRAWINGS TO BE SUBMITTED FOR APPROVAL. THE WORK SHALL INCLUDE ALL COMPONENTS REQUIRED TO PROVIDE A COMPLETE SYSTEM.
3. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE A SET OF SHOP DRAWINGS THAT INCLUDE ALL PIPE SIZES, ELEVATIONS, HEAD LOCATIONS, DIMENSIONS, VALVES, INSPECTOR TESTS, FLOW SWITCHES, TAMPER SWITCHES, ETC.
4. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE SPRINKLER LAYOUT INCLUDING LOCATION OF PENDANT HEADS FOR ALL LOCATION IN THIS SCOPE OF WORK.
5. THE SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO OWNER ' S ENGINEER AND THESE CALCULATIONS AND DRAWINGS SHALL BE SUBMITTED TO THE VA FIRE OFFICIAL, VA COR, AND THE ENGINEER OF RECORD.
6. SPRINKLER HEADS AND ASSOCIATED MAIN/BRANCH PIPING SHALL BE PROVIDED AND LOCATED IN ACCORDANCE WITH NFPA 13 AND VA FIRE PROTECTION DESIGN MANUAL. IT IS THE CONTRACTOR ' S RESPONSIBILITY TO CONFIRM LOCATIONS FOR COMPLIANCE WITH THE CODE REQUIREMENTS STATED ON THE CONTRACT DOCUMENTS, VA FIRE PROTECTION DESIGN MANUAL AND NFPA.
7. THE FIRE PROTECTION CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE.
8. SPRINKLER PIPING SHOULD BE ROUTED AS HIGH AS POSSIBLE WHILE STILL COORDINATING WITH OTHER TRADES. ELEVATION OF SPRINKLER PIPING AND HEAD MUST BE DETERMINED BY PROPOSED OR EXISTING CEILING HEIGHTS.
9. ALL MATERIAL AND ITS INSTALLATION SHALL BE IN COMPLETE COMPLIANCE WITH ALL APPLICABLE SECTIONS OF THE LATEST EDITION OF NFPA. AND FACTORY MUTUAL GUIDELINES. THE FIRE PROTECTION CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH ALL SPECIAL CONDITIONS SET FORTH BY THE VA FIRE PROTECTION DESIGN MANUAL, NFPA 13 AND NFPA 24.
10. THE FIRE PROTECTION CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL AND EQUIPMENT; AND, PERFORM ALL OPERATIONS NECESSARY FOR THE INSTALLATION OF A COMPLETE FIRE PROTECTION SYSTEM THAT IS READY FOR USE WITHIN THE INTENT OF AND AS INDICATED ON THE DRAWINGS, SPECIFICATIONS AND AS HEREIN SPECIFIED.
11. PROVIDE CUTTING AND PATCHING OF BUILDING AS REQUIRED TO INSTALL NEW WORK.
12. SMALL ITEMS NOT SHOWN OR SPECIFIED, BUT OBVIOUSLY REQUIRED BY GOOD GENERAL PRACTICE TO COMPLETE THE WORK SHALL BE FURNISHED AND INSTALLED THE SAME AS IF BOTH SHOWN AND SPECIFIED.
13. BY SUBMITTING A PROPOSAL FOR THIS WORK, THE CONTRACTOR WILL BE HELD TO HAVE EXAMINED THE SITE AND SATISFIED THEMSELVES AS TO EXISTING CONDITIONS UNDER WHICH THEY WILL BE OBLIGED TO OPERATE OR THAT WILL IN ANY MANNER AFFECT THEIR WORK UNDER THIS CONTRACT. NO ALLOWANCES SHALL BE MADE SUBSEQUENTLY IN THIS CONTRACT IN BEHALF OF CONTRACTOR OF ANY ERROR OR NEGLIGENCE ON THEIR PART
14. FIRE PROTECTION CONTRACTOR SHALL MAKE CONNECTION INTO THE NEW WET-PIPE FIRE SPRINKLER SERVICE FOR THIS SCOPE OF WORK.
15. WHERE SO INDICATED ON THE PLANS AS PART OF THE PROJECT SCOPE OF WORK, THE FIRE PROTECTION CONTRACTOR SHALL MAKE CONNECTION INTO THE NEW FIRE SERVICE WATER SYSTEM.
16. THE FIRE PROTECTION CONTRACTOR SHALL SCHEDULE WITH THE VA COR ALL TIE-INS TO EXISTING SYSTEMS AND PERFORM REQUIRED SHUTDOWN AND RE-INITIALIZATION OF THE EXISTING FIRE SPRINKLER SYSTEM; THESE SERVICES WILL INCLUDE DRAIN AND REFILL OF THE FIRE SPRINKLER SYSTEMS IN THE AFFECTED AREAS OF THIS PROJECT WORK SCOPE.
17. ALL FIRE PROTECTION WORK SHALL BE MADE IN ACCORDANCE WITH THE VA FIRE PROTECTION DESIGN MANUAL, NFPA 13, NFPA 24 AND NFPA 25. THE ENTIRE FIRE PROTECTION SYSTEM FOR THE WORK SCOPE SHOWN ON THESE DESIGN DRAWINGS SHALL BE MADE BY THIS CONTRACTOR IN THE PRESENCE OF AN INSPECTOR FROM THE VA FIRE OFFICIAL, VA COR AND THE ENGINEER OF RECORD. THE FIRE PROTECTION SYSTEM SHALL BE TESTED AS REQUIRED BY NFPA 13, NFPA 24 AND NFPA 25.
18. THROUGH PENETRATION ASSEMBLIES SHALL BE PROVIDED AT EACH OPENING WHERE EXPOSED SPRINKLER PIPING PASS THROUGH RATED WALLS, FLOORS AND PARTITIONS. ALL PIPING PENETRATIONS MUST BE SEALED IN ACCORDANCE WITH " UL " LISTING SEALING METHOD AND/OR AS DETAILED IN THESE CONTRACT DRAWINGS OR SPECIFICATIONS.
19. ALL APPLIANCES AND APPURTENANCES SHALL BEAR LABEL OF UL LISTED AND FM APPROVED AND LABELED FOR ITS INTENDED USE.
20. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED AND COMPLETED IN A FIRST-CLASS WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE BEST MODERN METHODS AND PRACTICES. ANY MATERIALS WHICH SHALL NOT PRESENT AN ORDERLY AND REASONABLY NEAT AND/OR WORKMANLIKE APPEARANCE SHALL BE REMOVED AND REPLACED WHEN SO DIRECTED BY THE ARCHITECT OR ENGINEER OF RECORD. THE REMOVAL AND REPLACEMENT OF THIS WORK SHALL BE DONE WHEN DIRECTED IN WRITING BY THE ARCHITECT, AT THE CONTRACTOR ' S EXPENSE.
21. SUPPLY ALL SPRINKLER EQUIPMENT ACCESSORIES AS REQUIRED.
22. PIPE HANGERS SHALL BE OF TYPE FM APPROVED AND UL LISTED IN NFPA 13.
23. ALL HANGERS SHALL BE FASTENED BY MEANS OF BEAM CLAMPS, CONCRETE INSERTS OR OTHER APPROVED DEVICES INSTALLED BY THIS CONTRACTOR.
24. SPRINKLER HEAD RATINGS, SPRAY TYPE, AND FINISH SHALL BE AS SPECIFIED ON PROJECT PLANS. WHERE NOT SPECIFICALLY IDENTIFIED ON PLANS, SPRINKLER HEADS SHALL QUICK RESPONSE TYPE UPRIGHT PENDANT WITH PAINTED COVER PLATE OR AS REQUIRED BY THE VA COR. REGULAR PENDANT HEADS IN FINISHED SPACES SHALL BE CHROME PLATED WITH CHROME PLATED CEILING PLATES UNLESS OTHERWISE NOTED. NEW HEADS SHALL MATCH EXISTING.
25. THE FIRE PROTECTION CONTRACTOR WILL BE REQUIRED TO COORDINATE ACCEPTANCE FOR VARIATION OF EQUIPMENT LOCATIONS AND EQUIPMENT CONFIGURATIONS WITH THE VA COR, THE VA FIRE OFFICIAL AND THE GENERAL CONTRACTOR.
26. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR COORDINATING CHANGES IN ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR AND THE VA COR.
27. VARIATION FROM SPECIFIED PHYSICAL EQUIPMENT APPEARANCE WILL NEED TO BE APPROVED THROUGH THE VA CORY AND THE ARCHITECT.
28. SYSTEM PIPING WILL BE SUPPORTED AND BRACED WITH HANGERS AND LISTED EARTHQUAKE BRACE ASSEMBLIES IN ACCORDANCE WITH THE VA SEISMIC DESIGN MANUAL AND NFPA 13.
29. AUTOMATIC SPRINKLER SYSTEM SHALL BE SUPERVISED AND INTERFACE WITH FIRE ALARM SYSTEMS.
30. ONE SET OF STAMPED, APPROVED DRAWINGS SHALL BE ON SITE AT ALL TIMES AND MADE AVAILABLE TO THE INSPECTOR AND/OR ARCHITECT/VA COR UPON DEMAND.
31. FIRE PROTECTION SYSTEMS SHALL BE INSTALLED BY A FIRE SUPPRESSION CONTRACTOR LICENSED TO PERFORM SUCH WORK IN THE PROJECT JURISDICTION.
32. AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT AND ASSOCIATED MATERIALS FROM THE SITE. REPAIR ANY DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE VA..
33. REPAIR FIRE AND SMOKE RATED PARTITIONS SURROUNDING FIRE ALARM WORK AS SPECIFIED. REFER TO ARCHITECTURE PLANS FOR LOCATIONS OF SMOKE AND FIRE PARTITIONS.
34. THREADED BUSHING SHALL NOT BE USED.
35. ANY SPRINKLER REMOVED FROM SERVICE FOR ANY REASON (E.G., REMOVED, RELOCATED, ETC.) SHALL BE REPLACED WITH A NEW SPRINKLER HEAD IN ACCORDANCE WITH NFPA 25.
36. NEW ARMOVERS SHALL BE PROVIDED TO EITHER RELOCATED OR NEW SPRINKLERS AS REQUIRED BY NFPA 13.
37. SPRINKLER SYSTEM SHOP DRAWINGS SHALL INCLUDE ALL MATERIALS REQUIRED BY NFPA 13 CHAPTER 27.
38. FIRE SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS AND CEILING AS MAY BE REQUIRED FOR THE INSTALLATION OF THE NEW FIRE SUPPRESSION SYSTEM.
39. WHEN WORK IS BEING PERFORMED IN AREAS THAT MUST CONTINUE OPERATION, CONTRACTOR SHALL KEEP THE AREAS CLEAN AND CLEAR OF OBSTRUCTIONS, AS MUCH AS POSSIBLE, PROVIDE WARNING SIGNS AS NECESSARY FOR PROTECTION OF OCCUPANTS FROM ASSOCIATED RISKS. REMOVE ALL DEBRIS AS WORK PROGRESSES.
40. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PRESENT THE VA COR WITH A REPORT CONFIRMING PROPER TESTING OF ALL NEW AND EXISTING DEVICES IN THE PROJECT ZONE; ALONG WITH APPROPRIATE SELECTED TESTING OF THE MAIN FIRE SUPPRESSION SYSTEM TO CONFIRM CONTINUED PROPER OPERATION. A CERTIFICATE OF APPROVAL FROM THE APPROPRIATE AGENCY INSPECTION AGENT WILL BE REQUIRED PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
41. THE PIPING SCHEMATIC INDICATED BY THE DRAWINGS REPRESENTS THE SCOPE AND INTENT OF THE FIRE PROTECTION SYSTEM; HOWEVER THE SPRINKLER CONTRACTOR SHALL PROVIDE A COMPLETE SPRINKLER SYSTEM PER NFPA 13, NFPA 24 AND VA FIRE PROTECTION DESIGN MANUAL REQUIREMENTS.
42. LIGHT FIXTURES AND HVAC DIFFUSERS TAKE SPACE PREFERENCE, ADD ADDITIONAL SPRINKLER HEADS AS REQUIRED TO MEET "COVERAGE REQUIREMENTS".
43. COORDINATE PLACEMENT OF SPRINKLER HEADS WITH ALL MECHANICAL DUCTS, DIFFUSERS AND ELECTRICAL LIGHT FIXTURES.
44. THE FIRE PROTECTION CONTRACTOR SHALL INDICATE ON THEIR SHOP DRAWINGS; CEILING TILE LOCATIONS WITH ALL CEILING MOUNTED FIRE PROTECTION DEVICES.
45. WALL PENETRATIONS THROUGH NON-RATED PARTITIONS SHALL BE PROVIDED WITH A NON-SHRINKING GROUT OR CAULKING MATERIAL.
46. THE FIRE PROTECTION SYSTEM / AREA OF PROTECTION INDICATED ON THE PLANS IS FOR COORDINATION AND BIDDING PURPOSES ONLY. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE DESIGN
47. IT IS THE INTENTION OF THE SPECIFICATION AND DRAWINGS TO CALL FOR A COMPLETE AND FUNCTIONAL SYSTEM, INSTALLED AS PER THE APPLICABLE CODES WITH ALL FINISHED WORK TESTED AND READY FOR OPERATION.
48. THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY THE VA COR, FIRE ALARM CONTRACTOR, ARCHITECT AND GENERAL CONTRACTOR ONE WEEK PRIOR TO ANY SHUTDOWN OR INTERRUPTION OF SERVICE.
49. ALL MATERIALS, PIPING, FITTINGS, VALVES, AND APPLIANCES HEREINAFTER SPECIFIED AND THOSE WHICH ARE ESSENTIAL BUT HAVE NOT BEEN SPECIFIED SHALL BE NEW AND OF THE HIGHEST GRADE AND QUALITY, FREE FROM DEFECTS AND SUCH AS BREAKS, FLAWS, AND IMPERFECTIONS.
50. CORE DRILL MASONRY WALLS FOR NEW PIPING. SEAL PENETRATIONS AS NECESSARY TO MAINTAIN INTEGRITY OF EXISTING WALLS.
51. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS AND CEILING AS MAY BE REQUIRED FOR THE INSTALLATION OF THE NEW FIRE SUPPRESSION SYSTEM.
52. ALL APPLIANCES AND APPURTENANCES SHALL BEAR LABEL OF UL/FM APPROVED AND LABELED FOR ITS INTENDED USE.
53. LONG RUNS OF PIPE SHALL BE PROVIDED WITH A SUITABLE MEANS TO PERMIT FREE MOVEMENT RESULTING FROM EXPANSION AND CONTRACTION OF PIPE. REDUCTION IN PIPE SIZES SHALL BE MADE WITH ONE-PIECE REDUCTION FITTINGS.
54. THE FIRE PROTECTION CONTRACTOR IS TO MAINTAIN A SET OF UP TO DATE CONSTRUCTION DOCUMENTS AVAILABLE AT THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION. THE FIRE PROTECTION CONTRACTOR IS TO INSTRUCT THE VA REPRESENTATIVE(S) IN THE OPERATION AND MAINTENANCE REQUIREMENTS OF THE COMPLETED BUILDING FIRE PROTECTION SYSTEM AT A TIME AGREED ON BY THE VA COR. THE VA COR'S REPRESENTATIVE(S) SHALL BE PROVIDED WITH AN UP TO DATE CONSTRUCTION DOCUMENTS AND A COPY OF NFPA 25 PRIOR TO INSTRUCTION BY THIS CONTRACTOR.
55. COORDINATE WITH OTHER WORK, INCLUDING HVAC, PLUMBING PIPING, ELECTRICAL AS NECESSARY TO INTERFACE COMPONENTS OF FIRE SPRINKLER PIPING PROPERLY WITH OTHER WORK. SYSTEM PIPING WILL BE SUPPORTED AND BRACED WITH HANGERS AND LISTED EARTHQUAKE BRACE ASSEMBLIES IN ACCORDANCE WITH THE VA SEISMIC DESIGN MANUAL AND NFPA 13.
56. IT SHALL BE THE RESPONSIBILITY OF THE FIRE SUPPRESSION CONTRACTOR TO REMOVE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS UNLESS NOTED OTHERWISE IN THE DRAWINGS.
57. ALL WALL AND FLOOR PENETRATIONS SHALL BE CORE-DRILLED AND SLEEVED.
58. UNLESS INDICATED OTHERWISE IN THE DRAWINGS OR SPECIFICATIONS, FIRE SUPPRESSION CONTRACTOR IS RESPONSIBLE FOR SEALING ALL FIRE RATED WALL PARTITIONS WITH UL LISTED MATERIAL AND METHODS.
59. WALL PENETRATIONS THROUGH NON-RATED PARTITIONS SHALL BE PROVIDED WITH A NON-SHRINKING GROUT OR CAULKING MATERIAL AND APPROVED ASSEMBLY.
60. BEFORE SUBMITTING A PROPOSAL FOR THE WORK, EACH BIDDER WILL BE HELD RESPONSIBLE TO HAVE EXAMINED THE EXISTING SITE CONDITIONS FOR THE WORK INCLUDED UNDER THIS CONTRACT. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
61. THE FIRE SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE DESIGN OF THE FIRE PROTECTION SYSTEM AND SHALL PROVIDE SEALED SHOP DRAWINGS. SPRINKLER SYSTEM PLANS AND CALCULATIONS SHALL BE SEALED BY AN PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE WORK IS TO OCCUR, OR SEALED BY A NICET LEVEL III OR LEVEL IV SPRINKLER DESIGNER CERTIFIED IN "WATER BASED SYSTEMS LAYOUT". DRAWINGS SHALL BE SEALED IN ACCORDANCE WITH REQUIREMENTS OF THE VA FIRE PROTECTION DESIGN MANUAL AND THE VA FIRE OFFICIAL.
62. THE FIRE SUPPRESSION SYSTEM AREA OF PROTECTION INDICATED ON THE PLANS IS FOR COORDINATION AND BIDDING PURPOSES ONLY. THE FIRE SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE DESIGN.
63. ALL HANGERS MUST BE FM APPROVED, UL LISTED AND THE TYPE APPROVED BY NFPA 13. NO SPRINKLER PIPING IS TO BE SUPPORTED FROM ANY MECHANICAL OR ELECTRICAL DEVICES. ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. VERTICAL RISERS SHOULD BE SUPPORTED AT EACH FLOOR LEVEL WITH STEEL PIPE CLAMPS. HANGING PIPES FROM OTHER PIPES WILL BE NOT PERMITTED. PIPING SHALL BE CAREFULLY COORDINATED BEFORE INSTALLATION WITH OTHER SYSTEMS AND EQUIPMENT IN CHASES AND OTHER CONGESTED AREAS. MAXIMUM DISTANCES BETWEEN PIPE SUPPORTS SHALL MEET THE REQUIREMENT STATED IN NFPA 13, SECTION 9.2.2 AND TABLE 9.2.2.1(A). TITLED "MAXIMUM DISTANCE BETWEEN HANGERS (FT-IN)."
64. NO MORE THAN ONE ZONE SHALL BE ALLOWED TO CONTROL ONE SPACE. ONLY ONE ZONE CONTROL VALVE SHALL ISOLATE ANY ONE PORTION OF A SYSTEM.
65. WATER FLOW IN ONE ZONE SHALL NOT CAUSE FIRE ALARMS IN OTHER ZONES. PROVIDE WATER FLOW ALARM SWITCHES WITH RETARD MECHANISM.
66. VERIFY THAT ALL TAMPER SWITCHES AND FLOW SWITCHES ARE CONNECTED TO A UL APPROVED FACP BY THE FIRE DETECTION CONTRACTOR.
67. ALL VALVES SHALL BE MADE TAMPER RESISTANT. ELECTRICAL SUPERVISION SHALL BE REQUIRED ON ALL SPRINKLER CONTROL VALVES. INDICATOR VALVES SHALL BE MADE EASILY READABLE AND READILY ACCESSIBLE.
68. EACH SPRINKLER ZONES IS TO BE PROVIDED WITH A DEDICATED CONTROL VALVE, TAMPER SWITCH AND AN INSPECTOR'S TEST.
69. TAMPER SWITCHES ON OS&Y TYPE VALVES MUST NOT DISTORT OR CHANGE SWITCH SETTINGS AS THEIR BOLTS ARE SECURELY FASTENED. NO "J-BOLT" MOUNTS WILL BE PERMITTED.
70. MAINTAINABILITY
    - A. EXTERNAL AND INTERNAL PARTS SHALL BE ARRANGED SO THAT WHEN INSTALLED, ALL PARTS REQUIRING MANIPULATION, OBSERVATION, AND/OR MAINTENANCE ARE READILY ACCESSIBLE AND SAFE FOR OPERATION AND MAINTENANCE PERSONNEL. WHEREVER PRACTICAL, VALVES AND INSTRUMENTS SHALL BE LOCATED SUCH THAT THEY CAN BE OPERATED AND EASILY ACCESSED FROM GRADE LEVEL.
    - B. MAINTAINABILITY SHALL BE INCORPORATED INTO THE DESIGN OF ALL CONTRACTOR SUPPLIED EQUIPMENT. THE PRIMARY MAINTAINABILITY OBJECT SHALL BE TO MINIMIZE THE COMPLEXITY AND TIME REQUIRED FOR MAINTENANCE. THE FOLLOWING GENERAL CRITERIA SHALL BE FOLLOWED TO ACHIEVE THIS OBJECTIVE:
        - a. CONTRACTOR SUPPLIED EQUIPMENT SHALL BE LOW MAINTENANCE DESIGN AND SHALL BE EASILY MAINTAINABLE.
        - b. CONTRACTOR SUPPLIED EQUIPMENT SHALL BE DESIGNED TO BE MAINTAINED IN PLACE, IF POSSIBLE, WITH MINIMUM DISASSEMBLY OF SURROUNDING EQUIPMENT AND MINIMUM USAGE OF TEMPORARY SCAFFOLDING AND HANDLING EQUIPMENT.
71. DEVICES SHOWN ON THIS PLAN ARE NEW, UNLESS OTHERWISE NOTED.
72. DRAWING ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EACH AND EVERY SPRINKLER HEAD, BRANCH PIPING, DEVICES, FITTINGS, VALVES OR COMPLETE DETAIL OF ALL THE WORK TO BE PERFORMED, BUT ARE FOR THE PURPOSES OF ILLUSTRATING THE TYPE OF SYSTEM AND CONDITIONS NECESSARY FOR AN EXPERIENCED TRADESMAN TO LAYOUT HIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SUCH SITE OBSERVATIONS AND MEASUREMENTS AS NECESSARY TO PROPERLY COMPLETE THE WORK.
73. WALL PENETRATIONS THROUGH NON-RATED PARTITIONS SHALL BE PROVIDED WITH NON-SHRINKING GROUT OR CAULKING MATERIAL AND APPROVED ASSEMBLY.
    - A. SPRINKLER SHOP DRAWINGS SHALL INDICATE THE FOLLOWING:
    - B. CEILING TYPES AND GRIDS.
    - C. ALL CEILING MOUNTED DEVICES (LIGHTS, DIFFUSERS AND SPECIAL ELECTRICAL SYSTEMS.
74. LOCATION OF INSPECTOR TEST CONNECTIONS AND POINT OF DISCHARGE.
75. THE FIRE SUPPRESSION CONTRACTOR SHALL LOCATE SPRINKLER HEADS IN CEILINGS AS FOLLOWS. ALL HEADS SHALL BE LOCATED IN THE CENTER OF TILES (2' X 2') OR IN THE CENTER OF ONE QUADRANT (2' X 4') IN GYP. BOARD CEILING SPRINKLER HEADS SHALL BE LOCATED IN SYMMETRICAL PATTERN RELATIVE TO OTHER DEVICES LOCATED IN THE CEILING.
76. ADEQUATE HOUSING SHALL BE PROVIDED FOR ALL MATERIAL STORED ON THE JOB. ALL MATERIALS FURNISHED FOR THE PROJECT SHALL BE NEW WITH LISTINGS AND LABELS BY A TESTING AGENCY APPROVED BY THE STATE OF WHERE THE WORK IS TO BE PERFORMED.
77. INTERRUPTIONS IN OPERATION OF THE FIRE SUPPRESSION SYSTEM MUST BE SCHEDULED WITH THE VA COR AT LEAST ONE(1) WEEK IN ADVANCE; WITH PROPER NOTICE PROVIDED TO THE EMERGENCY RESPONSE TEAMS - BOTH INSIDE AND OUTSIDE OF THE FACILITY.
78. WHERE WORK IS BEING PERFORMED IN AREAS THAT MUST CONTINUE NORMAL OPERATION, FIRE SUPPRESSION CONTRACTOR SHALL KEEP THE AREAS CLEAN AND CLEAR OF OBSTRUCTIONS, AND AS MUCH AS POSSIBLE, PROVIDE WARNING SIGNS AS NECESSARY FOR PROTECTION OF OCCUPANTS FROM ASSOCIATED RISKS. REMOVE ALL DEBRIS AS WORK PROGRESSES.
79. UPON COMPLETION OF THE WORK, THE FIRE SUPPRESSION CONTRACTOR SHALL PRESENT THE VA COR WITH A REPORT CONFIRMING PROPER TESTING OF ALL NEW DEVICES IN THE PROJECT ZONE; ALONG WITH APPROPRIATE SELECTED TESTING OF THE MAIN FIRE SUPPRESSION SYSTEM TO CONFIRM CONTINUED PROPER OPERATION. A CERTIFICATE OF APPROVAL FROM THE APPROPRIATE AGENCY INSPECTION AGENT WILL BE REQUIRED PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
80. THE PIPING SCHEMATIC INDICATED BY THE DRAWINGS REPRESENTS THE SCOPE AND INTENT OF THE FIRE PROTECTION SYSTEM; HOWEVER THE SPRINKLER CONTRACTOR SHALL PROVIDE A COMPLETE SPRINKLER SYSTEM PER NFPA 13, NFPA 24, NFPA 25 AND VA FIRE PROTECTION DESIGN MANUAL REQUIREMENTS.
81. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR COORDINATION OF SPRINKLER LOCATIONS WITH CEILING HEIGHTS AND TYPES. LOCATE SPRINKLER HEADS THROUGHOUT ALL AREAS AS REQUIRED BY NFPA 13 AND VA FIRE PROTECTION DESIGN MANUAL. COORDINATE SPRINKLER HEAD LOCATIONS WITH ALL OTHER TRADES BUT NOT LIMITED TO THE FOLLOWING: LIGHTS, STRUCTURAL SUPPORTS, BOOM, SPECIAL SYSTEMS, SMOKE DETECTORS,FIRE ALARM INDICATION DEVICES, HVAC DIFFUSERS, ETC. OBTAIN ARCHITECT'S, ENGINEER AND/OR APPROVAL OF ALL SPRINKLER HEAD LOCATIONS.
82. ALL SPRINKLER HEAD PIPE ROUTING AND ELEVATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: CEILINGS, STRUCTURAL STEEL AND SUPPORTS, HVAC DUCTWORK, CABLE TRAYS, CONDUIT, SPECIAL SYSTEMS, CONTROLS, ETC.
83. THE AUTOMATIC SPRINKLER CONTRACTOR IS TO PROVIDE ALL NECESSARY OFFSETS, RISES OR DROPS IN THE PIPING AND AUXILIARY DRAINS AS REQUIRED TO INSTALL COMPLETELY COORDINATED SPRINKLER SYSTEM. HYDRAULIC CALCULATIONS SHALL BE ORIGINATED AT THE FIRE PUMP AS A MINIMUM FOR FACILITIES THAT POSSES A FIRE PUMP OR AT LOCATION OF FIRE HYDRANT FLOW TEST.
84. SPRINKLER HEADS SHALL BE LOCATED A MINIMUM OF TWO (2) FOOT DISTANCE FROM A SIDE WALL-MOUNTED OR CEILING MOUNTED DIFFUSER USING AN ORDINARY TEMPERATURE SPRINKLER HEAD. SPRINKLER HEADS SHALL BE LOCATED A MINIMUM OF THREE (3) FOOT DISTANCE FROM THE FRONT OF A WALL-MOUNTED HOT AIR DIFFUSER.
85. SPRINKLER HEADS SHALL BE LOCATED A MINIMUM OF 18 INCHES FROM ANY LIGHT FIXTURE USING AN ORDINARY TEMPERATURE SPRINKLER HEAD. IT IS PREFERRED THAT THE CONTRACTOR MAINTAINS A TWO (2) FOOT SPACING BETWEEN THE LIGHT FIXTURE AND SPRINKLER HEAD.
86. SPRINKLER PLANS AS SHOWN ARE FOR BIDDING PURPOSES ONLY. SPRINKLER CONTRACTOR IS TO OBTAIN CURRENT HYDRANT TEST DATA AND PROVIDE HYDRAULIC CALCULATIONS FOR SYSTEM PIPE SIZING IN ACCORDANCE WITH NFPA 13. CONTRACTOR IS TO SUBMIT SHOP DRAWINGS INDICATING HYDRAULIC CALCULATIONS, PIPING LAYOUT & SIZING. ALL WORK IS TO BE DONE IN ACCORDANCE WITH ALL STATE, LOCAL, GOVERNING AND APPLICABLE CODES.
87. SPRINKLER CONTRACTOR SHALL MAINTAIN SUPERVISION OF NEW SPRINKLER SYSTEM AT ALL TIMES AND SHALL COORDINATE TRANSFER OF SYSTEM WITH VA COR AND ENGINEER OF RECORD.
88. PIPE SUPPORTS:
    - A. ALL HANGERS MUST BE FM APPROVED, UL LISTED AND MEET THE REQUIREMENTS OF NFPA 13. NO SPRINKLER PIPE IS TO BE SUPPORTED FROM ANY MECHANICAL OR ELECTRICAL DEVICE, SPECIFICALLY, DUCTWORK.
    - B. ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. VERTICAL RISERS SHOULD BE SUPPORTED AT EACH FLOOR LEVEL WITH STEEL PIPE CLAMPS. THE USE OF WORE OR STRAP METAL HANGERS TO SUPPORT PIPES WILL NOT BE PERMITTED. HANGING PIPES FROM OTHER PIPES WILL NOT BE PERMITTED. CAREFULLY COORDINATED BEFORE INSTALLATION WITH OTHER SYSTEMS AND EQUIPMENT IN CHASES AND OTHER CONGESTED AREAS.
    - C. MAXIMUM DISTANCES BETWEEN PIPE SUPPORTS SHALL MEET THE REQUIREMENTS STATED IN NFPA 13, SECTION 9.2.2 AND TABLE 9.2.1(a), TITLED, "MAXIMUM DISTANCE BETWEEN HANGERS (FT.-IN.).
89. ANY SPRINKLER REMOVED FROM SERVICE FOR ANY REASON (E.G., REMOVED, RELOCATED, ETC.) SHALL BE REPLACED WITH A NEW SPRINKLER HEAD IN ACCORDANCE WITH NFPA 25.
90. NEW ARMOVERS SHALL BE PROVIDED TO ALL NEW SPRINKLERS FOR COMPLIANCE WITH NFPA 13.
91. THE SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE VA COR, VA FIRE OFFICIAL, ARCHITECT, AND ENGINEER OF RECORD FOR REVIEW AND COMMENT.
92. IT IS THE INTENTION OF THE SPECIFICATION AND DRAWINGS TO CALL FOR A COMPLETE AND FUNCTIONAL SYSTEM, INSTALLED AS PER NFPA AND VA FIRE PROTECTION DESIGN MANUAL WITH ALL FINISHED WORK TESTED AND READY FOR OPERATION.
93. THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY THE VA COR, FIRE ALARM CONTRACTOR, ARCHITECT AND GENERAL CONTRACTOR ONE WEEK PRIOR TO ANY SHUTDOWN OR INTERRUPTION OF SERVICE.
94. ALL MATERIALS, PIPING, FITTINGS, VALVES, AND APPLIANCES HEREINAFTER SPECIFIED AND THOSE WHICH ARE ESSENTIAL BUT HAVE NOT BEEN SPECIFIED SHALL BE NEW AND OF THE HIGHEST GRADE AND QUALITY, FREE FROM DEFECTS AND SUCH AS BREAKS, FLAWS, AND IMPERFECTIONS.
95. CORE DRILL MASONRY WALLS FOR NEW PIPING. SEAL PENETRATIONS AS NECESSARY TO MAINTAIN INTEGRITY OF EXISTING WALLS.
96. THROUGH PENETRATION ASSEMBLIES SHALL BE PROVIDED AT EACH OPENING WHERE EXPOSED SPRINKLER PIPING PASS THROUGH RATED WALLS, FLOORS AND PARTITIONS. ALL PIPING PENETRATIONS MUST BE SEALED IN ACCORDANCE WITH "UL" LISTING SEALING METHOD AND/OR AS DETAILED IN THESE CONTRACT DRAWINGS OR SPECIFICATIONS.
97. BEFORE SUBMITTING A PROPOSAL FOR THE WORK, EACH BIDDER WILL BE HELD RESPONSIBLE TO HAVE EXAMINED THE EXISTING SITE CONDITIONS FOR THE WORK INCLUDED UNDER THIS CONTRACT. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
98. THE FIRE SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE DESIGN OF THE FIRE PROTECTION SYSTEM AND SHALL PROVIDE SEALED SHOP DRAWINGS. SPRINKLER SYSTEM PLANS AND CALCULATIONS SHALL BE SEALED BY AN PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA OR A NICET LEVEL III OR LEVEL IV SPRINKLER DESIGNER.
99. DRAWING ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EACH AND EVERY SPRINKLER HEAD, BRANCH PIPING, DEVICES, FITTINGS, VALVES OR COMPLETE DETAIL OF ALL THE WORK TO BE PERFORMED, BUT ARE FOR THE PURPOSES OF ILLUSTRATING THE TYPE OF SYSTEM AND CONDITIONS NECESSARY FOR AN EXPERIENCED TRADESMAN TO LAYOUT HIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SUCH SITE OBSERVATIONS AND MEASUREMENTS AS NECESSARY TO PROPERLY COMPLETE THE WORK.
100. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PRESENT THE VA COR, VA FIRE OFFICIAL AND ENGINEER OF RECORD WITH A REPORT CONFIRMING PROPER TESTING OF ALL NEW AND EXISTING DEVICES IN THE PROJECT ZONE; ALONG WITH APPROPRIATE SELECTED TESTING OF THE MAIN FIRE SUPPRESSION SYSTEM TO CONFIRM CONTINUED PROPER OPERATION. A CERTIFICATE OF APPROVAL FROM THE APPROPRIATE AGENCY INSPECTION AGENT WILL BE REQUIRED PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
101. THE PIPING SCHEMATIC INDICATED BY THE DRAWINGS REPRESENTS THE SCOPE AND INTENT OF THE FIRE PROTECTION SYSTEM; HOWEVER THE SPRINKLER CONTRACTOR SHALL PROVIDE A COMPLETE SPRINKLER SYSTEM PER NFPA 13, NFPA 24, NFPA 25 AND THE VA FIRE PROTECTION DESIGN MANUAL REQUIREMENTS.
102. ALL SPRINKLER HEAD PIPE ROUTING AND ELEVATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: CEILINGS, STRUCTURAL STEEL AND SUPPORTS, HVAC DUCTWORK, CABLE TRAYS, CONDUIT, SPECIAL SYSTEMS, CONTROLS, ETC.
103. HYDRAULIC CALCULATIONS SHALL BE ORIGINATED AT THE LOCATION OF FIRE HYDRANT FLOW TEST.
104. THE FIRE PROTECTION CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES NECESSARY FOR ANY REASONABLY INCIDENTAL TO FURNISHING A FIRE PROTECTION SYSTEM, AS INDICATED ON THE CONTRACT DRAWINGS AND / OR SPECIFIED IN THE PROJECT SPECIFICATIONS.
105. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO ELIMINATE CONFLICT WITH OTHER TRADES. ANY WORK INSTALLED BY THIS CONTRACTOR THAT RESULTS IN CONFLICT, DUE TO LACK OF COORDINATION BETWEEN TRADES, SHALL BE CHANGED AS DIRECTED BY THE ARCHITECT /ENGINEER WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.
106. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE ROUTING OF SPRINKLER LINES TO ENSURE PIPING DOES NOT PASS OVER ELECTRICAL PANELS.
107. ANY NEW PIPE OR DUCTWORK INSULATION THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH NEW INSULATION TO MATCH ADJACENT INSULATION AND COVERING AT THE FIRE PROTECTION CONTRACTOR'S EXPENSE.
108. CUTTING AND PATCHING OF ANY CONDITIONS, INCLUDING FLOORS, WALLS AND CEILINGS REQUIRED FOR THE INSTALLATION OF FIRE PROTECTION SYSTEMS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ALL WORK SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND ALL OTHER TRADES.
109. THIS FIRE SUPPRESSION CONTRACTOR IS RESPONSIBLE FOR SUBMISSION OF CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVEGROUND PIPING MEETING NFPA 13, FIGURE 29.1 TO THE VA COR AND THE ENGINEER OF RECORD FOR REVIEW AND COMMENT. ALL CONTRACTORS' MATERIAL AND TEST CERTIFICATE FOR ABOVEGROUND PIPING MUST BE DATED, PRINTED NAME OF INDIVIDUALS WHO SIGNED THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE AND SIGNATURES. ALL TEST MUST BE COORDINATED WITH THE VA COR, VA FIRE SAFETY OFFICIAL AND THE ENGINEER OF RECORD. SIGNATURES BY NON VA FIRE OFFICIALS WILL NOT BE ACCEPTED. AND SIGNATURES. ALL TEST MUST BE COORDINATED WITH THE VA COR, VA FIRE SAFETY OFFICIAL AND THE ENGINEER OF RECORD. SIGNATURES BY NON VA FIRE OFFICIALS WILL NOT BE ACCEPTED.
110. THIS CONTRACTOR IS RESPONSIBLE FOR SUBMISSION OF CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING MEETING NFPA 24, FIGURE 10.10.1 TO THE VA COR AND THE ENGINEER OF RECORD FOR REVIEW AND COMMENT.
111. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, RISES AND DROPS IN PIPING, AND AUXILIARY DRAINS AS REQUIRED BY THE VA FIRE PROTECTION DESIGN MANUAL AND NFPA 13, WHETHER SHOWN ON PLANS OR NOT.
112. WHERE SPRINKLER PIPING IS INSTALLED BELOW DUCTWORK, PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE OR FROM THE DUCTWORK SUPPORTS; PROVIDED SUCH SUPPORTS ARE CAPABLE OF HANDLING THE LOAD OF THE LOAD OF THE DUCTWORK AND THE LOADS SPECIFIED IN NFPA 13, SECTION 17.4.1.3 ARE MET. IF THE CONTRACTOR DECIDES TO SUPPORT THE FIRE PROTECTION PIPING FROM THE DUCTWORK SUPPORTS; THE FIRE PROTECTION CONTRACTOR SHALL SUBMIT CALCULATIONS SIGNED AND SEALED BY A SOUTH CAROLINA LICENSED FIRE PROTECTION ENGINEER VALIDATING COMPLIANCE WITH NFPA 13.
113. DRY PIPE SYSTEM FOR THE VESTIBULE AREA BRANCH AND MAIN LINES SLOPE REQUIREMENTS ARE:
    - a. BRANCH LINES SHALL BE PITCHED AT LEAST 1/2-INCH PER 10 FEET.
    - b. MAINS SHALL BE PITCHED AT LEAST 1/2 INCH PER 10 FEET.
    - c. BRANCH AND MAIN LINES SLOPES SHALL MEET ABOVE AND MEET THE REQUIREMENTS OF NFPA 13, 2022 EDITION, SECTION 16.10.3, NO EXCEPTIONS.
114. WET PIPE SYSTEMS SHALL MEET THE FOLLOWING REQUIREMENTS:
    - A. WET PIPE SYSTEM SPRINKLER PIPES SHALL BE PERMITTED TO BE INSTALLED LEVEL MEETING THE REQUIREMENTS OF NFPA 13, 2022 EDITION, SECTION 16.10.2.
    - B. ANY TRAPPED PIPING WHERE THE BRANCH LINES OR MAINS ARE LOCATED AT A LEVEL THAT CAN NOT BE DRAINED AT THE WET PIPE ASSEMBLY DRAIN VALVE(S) SHALL MEET THE REQUIREMENTS OF NFPA 13, 2022 EDITION, SECTION 16.10.5 AND VA FIRE PROTECTION DESIGN MANUAL, SECTION 6.1.P.
    - C. PROVIDE AUXILIARY DRAIN WITH DRUM DRIP IN AN ACCESSIBLE LOCATION; WHERE, 2-INCH MINIMUM DRAIN SHALL BE PROVIDED AND SLOPED 1/2-INCH PER 10 FEET PER NFPA 13 AND VA FIRE PROTECTION DESIGN MANUAL REQUIREMENTS.
115. THE REQUIREMENTS OF NFPA 13, SECTION 19.3.3.2.5 SHALL PREVAIL WHERE THE AREA OF THE DRY PIPE SPRINKLER OPERATION SHALL BE INCREASED BY 30 PERCENT WITHOUT REVISING THE DESIGN DENSITY, E.G., ORDINARY GROUP 1, ETC., FOR THE DRY-PIPE FIRE SUPPRESSION SYSTEM THAT SHALL PROTECT THE OUTDOOR CANOPY.
116. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE PENDENT TYPE HEADS AND IF IN THE EXISTING BUILDING THERE IS A DIFFERENT TYPE THEN ALL SPRINKLER HEADS SHALL BE OF QUICK RESPONSE TYPE. CONTRACTOR SHALL VERIFY EXISTING SPRINKLER HEAD TYPE BEFORE WORK BEGINS.

SITE INSPECTION NOTE:

A CONTRACTOR SHALL PROVIDE THE ENGINEER FIVE(5) WORKING DAYS NOTICE FOR ALL REQUESTED REVIEWS OF THE WORK. AS A MINIMUM THE FOLLOWING REVIEWS SHALL BE CONDUCTED PRIOR TO COVERING UP ANY CONCEALED WORK:

1. UNDERGROUND WORK. ALL WORK SHALL BE VISIBLE FIRE PROTECTION INSPECTIONS SHALL BE COMPLETE AND PASSED.
2. INSTALLATION OF TAMPER AND FLOW SWITCHES ON FIRE SERVICE AND POTABLE WATER REVERSE PRINCIPLE BACKFLOW (RPZ) PREVENTION VALVE ASSEMBLY AND POST INDICATOR VALVE FOR ELECTRONIC SUPERVISION SHALL BE FURNISHED & INSTALLED BY THE FIRE SUPPRESSION CONTRACTOR WHERE INSPECTION SHALL BE COMPLETED AND PASSED INSPECTION.
3. IN-WALL ROUGH-IN WORK SHALL BE VISIBLE. FIRE PROTECTION INSPECTIONS SHALL BE COMPLETE AND PASSED.
4. ABOVE CEILING WORK AN ABOVE CEILING WORK SHALL BE COMPLETE INCLUDING PIPING, VALVES, SPRINKLER HEADS, HANGERS, SUPPORTS AND SEISMIC RESTRAINS, ETC. FIRE PROTECTION INSPECTIONS SHALL BE COMPLETED AND PASSED.

RE-REVIEW SHALL BE REQUIRED IF THE WORK IS COMPLETE OR NOT INSTALLED PER THE CONTRACT DOCUMENTS.

WORK AREAS OUTSIDE OF A RATED CONSTRUCTION BARRIER

CONTRACTOR SHALL BE REQUIRED TO PROVIDE/INSTALL THE REPLACEMENT OF CEILING TILES AT THE END OF EACH SHIFT FOR WORK AREAS OUTSIDE A RATED CONSTRUCTION BARRIER. IF THE TILES CAN NOT BE REPLACED THE SPRINKLER SYSTEM MAY BE CONSIDERED OUT OF SERVICE IN THESE AREAS AND A 1-HOUR FIRE RATED SEPARATION WILL BE REQUIRED BETWEEN THE CONSTRUCTION AREA AND THE OCCUPIED PORTION OF THE BUILDING.

REFERENCE NFPA 1, PARAGRAPH 13.3.3.3

SPRINKLER NOTE:

SPRINKLER PLANS AS SHOWN ARE FOR BIDDING PURPOSES ONLY. SPRINKLER CONTRACTOR IS TO OBTAIN CURRENT HYDRANT TEST DATA AND PROVIDE HYDRAULIC CALCULATIONS FOR SYSTEM PIPE SIZING IN ACCORDANCE WITH NFPA 13 & NFPA 291 FOR DESIGN INPUT INTO THE CONTRACTOR'S HYDRAULIC CALCULATIONS. CONTRACTOR IS TO SUBMIT SHOP DRAWINGS INDICATING HYDRAULIC CALCULATIONS, PIPING LAYOUT & SIZING. SHOP DRAWINGS AND CALCULATIONS ARE TO BE SIGNED & SEALED BY A LICENSED FIRE PROTECTION PROFESSIONAL ENGINEER WHERE THE WORK SHALL OCCUR OR NICET LEVEL III OR IV. ALL WORK IS TO BE DONE IN ACCORDANCE WITH ALL VA, STATE, LOCAL, GOVERNING AND APPLICABLE CODES.

SCOPE OF WORK

NOT IN CONTRACT	(grey)
AREA OF WORK	(white)

FIRE PROTECTION ABBREVIATIONS

ABV	ABOVE	HR	HOSE REEL
ADA	AMERICANS WITH DISABILITIES ACT	HV	HOSE VALVE
AHJ	AUTHORITY HAVING JURISDICTION	HC	HOSE CABINET
AUTO	AUTOMATIC	HVAC	HEATING VENTING AND AIR CONDITIONING
A/CONC	ABOVE CONCRETE	INT	INTERIOR
AFF	ABOVE FINISHED FLOOR	INSP	INSPECTOR
AFG	ABOVE FINISHED GRADE	ITC	INSPECTOR TEST CONNECTION
BEL	BELOW	LTG	LIGHTING
BFF	BELOW FINISH FLOOR	LH	LIGHT HAZARD
BFP	BACKFLOW PREVENTER	LVL	LEVEL
BSMT	BASEMENT	MJ	MECHANICAL JOINT
BOB	BOTTOM OF BEAM	MEZZ	MEZZANINE
BLDG	BUILDING	MI	MALLEABLE IRON
BLK	BLACK	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CI	CAST IRON	NC	NORMALLY CLOSED
CL	CLASS	NO	NORMALLY OPENED
CLG	CEILING	NIC	NOT IN CONTRACT
CHK	CHECK	NA	NOT APPLICABLE
CONT	CONTINUATION	NRS	NON RISING STEM
CR	CONCRETE	NTS	NOT TO SCALE
CON	CONCENTRIC	NPT	NATIONAL PIPE THREAD
DN	DOWN	OS&Y	OUTSIDE SCREW AND YOKE
D	DRY	OH1	ORDINARY HAZARD I
DIA	DIAMETER	OH2	ORDINARY HAZARD 2
DEG	DEGREE	PA	PRE-ACTION
DWG	DRAWING	PAV	PRE-ACTION VALVE
DEPT	DEPARTMENT	PC	PLUMBING CONTRACTOR
DOD	DEPT OF DEFENSE	PEND	PENDANT
DP	DRY PIPE	PLB	PLUMBING
DI	DUCTILE IRON	PH	PHASE
(E)	EXISTING	PIV	POST INDICATING VALVE
EA	EACH	PS	PRESSURE SWITCH
EL	ELBOW	PSI	POUNDS PER SQUARE INCH
EC	EXTENDED COVERAGE	RED	REDUCER
ECC	ECCENTRIC	RES	RESIDUAL
ELEC	ELECTRIC	RM	ROOM
EL	ELEVATION	SCH	SCHEDULE
EH1	EXTRA HAZARD 1	SCR	SCREWED
EH2	EXTRA HAZARD 2	SW	SIDEWALL
EXIST	EXISTING	SPEC	SPECIFICATION
EXT	EXTINGUISHER	SP	SPECIAL
FM	FACTORY MUTUAL GLOBAL	SF	SQUARE FEET
FA	FIRE ALARM	STL	STEEL
FDC	FIRE DEPARTMENT CONNECTION	TOC	TOP OF CONCRETE
FHV	FIRE HOSE VALVE	TOS	TOP OF STEEL
FIN	FINISH	THRD	THREADED
FLG	FLANGE	TS	TAMPER SWITCH
FA	FIRE ALARM	TYP	TYPICAL
FL	FLOOR	TBD	TO BE DETERMINED
FP	FIRE PROTECTION	UG	UNDERWRITERS LABORATORY
FS	FLOW SWITCH	UL	UPRIGHT
GAL	GALLONS	UPR	UNLESS NOTED OTHERWISE
GA	GAUGE	UNO	UNDERGROUND
GALV	GALVANIZED	VA	US DEPT OF VETERANS AFFAIRS
GC	GENERAL CONTRACTOR	VAL	VALVE
GR	GRADE	V	VOLTS
GND	GROUND	FS	WATER FLOW SWITCH
GPM	GALLONS PER MINUTE	WLD	WELDED
GVD	GROOVED	WG	WIREGUARD
HYD	HYDRANT	WP	WET PIPE
HP	HORSEPOWER		

DESIGN CODES, STANDARDS & PARTIES OF REFERENCE

THE FOLLOWING PUBLICATIONS AND AUTHORITIES HAVING JURISDICTION SHALL BE REFERENCED FOR THE DESIGN OF THE FIRE PROTECTION SYSTEM ON THIS PROJECT:

1. ANSI, A117.1 STANDARD, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES. 2017 EDITION
2. NFPA 1 - FIRE CODE, 2024 EDITION
3. NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2022 EDITION
4. NFPA 25 - INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS, 2023 EDITION
5. NFPA 55 - COMPRESSED GASES AND CRYOGENIC FLUIDS CODE, 2023 EDITION
6. NFPA 70 - NATIONAL ELECTRIC CODE, 2023 EDITION
7. NFPA 72 - NATIONAL FIRE ALARM & SIGNALING CODE, 2022 EDITION
8. NFPA 99 - HEALTHCARE FACILITY CODE, 2024 EDITION
9. NFPA 101 - LIFE SAFETY CODE. 2024 EDITION
10. NFPA 170 - LIFE SAFETY CODE, 2024 EDITION
11. NFPA 241 - STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERNATION AND DEMOLITION OPERATIONS, 2022 EDITION
12. NFPA 291 - RECOMMENDED PRACTICE FOR WATER FLOW TESTING AND MARKING OF HYDRANTS, 2025 EDITION
13. VA FIRE PROTECTION DESIGN MANUAL, NOVEMBER 1, 2023, NINTH EDITION
14. VA SEISMIC DESIGN REQUIREMENTS, REVISED JULY 1, 2023 EDITION
15. VA FIRE OFFICIAL

DEDUCT ALTERNATES

A	**ALTERNATE A** - ELIMINATE SECONDARY ELECTRICAL FEED
B	**ALTERNATE B** - ELIMINATE LANDSCAPING
C	**ALTERNATE C** - ELIMINATE CLERESTORY AREAS
D	**ALTERNATE D** - ELIMINATE CLERESTORY AREAS

NOTE: SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FIRE SUPPRESSION - DRAWING INDEX

Sheet Number	Sheet Name
FX001	FIRE SUPPRESSION - SYMBOLS, NOTES AND DRAWING INDEX
FX002	FIRE SUPPRESSION - DETAILS
FX003	FIRE SUPPRESSION - DETAILS
FX004	FIRE SUPPRESSION - FLOW TEST AND IMPAIRMENT AND TEMPORARY REQUIREMENTS
FX005	FIRE SUPPRESSION - UL DETAILS
FX006	FIRE SUPPRESSION - WET CHEMICAL FIRE SUPPRESSION REQUIREMENTS
FX100	FIRE SUPPRESSION - BASEMENT FLOOR - DESIGN CRITERIA
FX101	FIRE SUPPRESSION - BASEMENT FLOOR - PIPING PLAN
FX110	FIRE SUPPRESSION - FIRST FLOOR - DESIGN CRITERIA
FX111	FIRE SUPPRESSION - FIRST FLOOR - PIPING PLAN
FX300	FIRE SUPPRESSION - SECTIONS

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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CHARLOTTE ENGINEERS — FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
CHARLOTTE ENGINEERS
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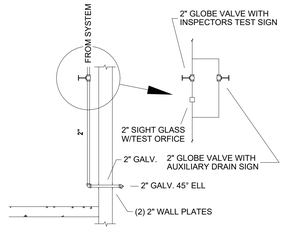
CHARLOTTE, NC 28212

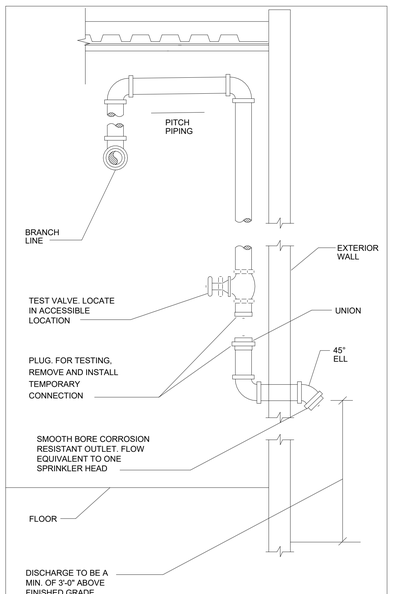
STAMP John Callahan
GEORGIA REGISTERED No. PE031384 PROFESSIONAL ENGINEER JOHN RICHARD CALLAHAN JR.

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

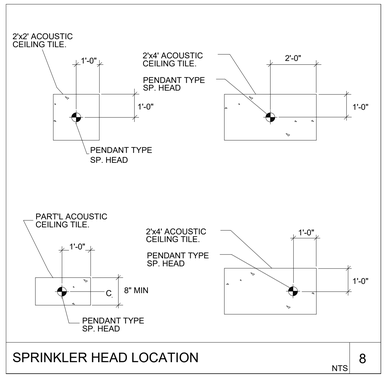
Drawing Title: FIRE SUPPRESSION - SYMBOLS, NOTES AND DRAWING INDEX
Approved:
Phase: BID DOCUMENTS
FULLY SPRINKLERED
Project Title: CONSTRUCT TDVV CLC 12 BEDS
Location: 180 MARTIN DR, CARROLLTON, GA 30117
Issue Date: 12/16/2024
Checked: GAT
Drawn: JRC
Project Number: 508-349
Building Number:
Drawing Number: FX001



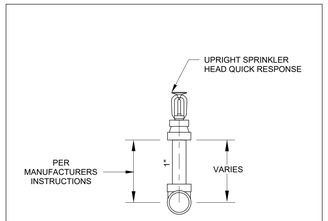
WET SYSTEM INSPECTORS TEST CONNECTION WITH AUXILIARY DRAIN — 11



SYSTEM TEST CONNECTION DETAIL — NTS — 10

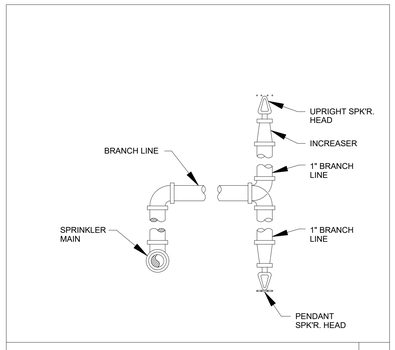


SPRINKLER HEAD LOCATION — NTS — 8

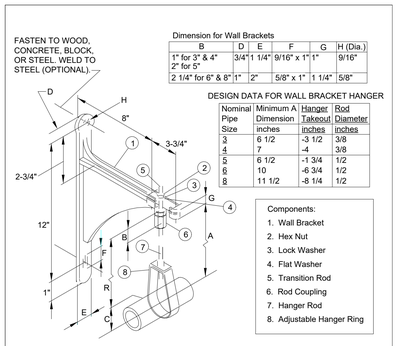


** FOR USE IN AREAS WITHOUT LAY-IN/GYPBOARD CEILINGS **
** FOR USE IN AREAS OPEN TO STRUCTURE **

TYPICAL UPRIGHT HEAD DETAIL — 5



SPRINKLERS HEAD DETAIL — NTS — 7



Dimension for Wall Brackets

B	D	E	F	G	H (Dia.)
1" for 3" & 4" 2" for 5"	3/4"	1 1/4"	9/16" x 1"	1"	9/16"
2 1/4" for 6" & 8"	1"	2"	5/8" x 1"	1 1/4"	5/8"

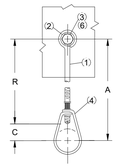
DESIGN DATA FOR WALL BRACKET HANGER

Nominal Pipe Size	Minimum A Dimension inches	Hanger Takeout inches	Rod Diameter inches
3	6 1/2	-3 1/2	3/8
4	7	-4	3/8
5	6 1/2	-1 3/4	1/2
6	10	-6 3/4	1/2
8	11 1/2	-8 1/4	1/2

Components:
1. Wall Bracket
2. Hex Nut
3. Lock Washer
4. Flat Washer
5. Transition Rod
6. Rod Coupling
7. Hanger Rod
8. Adjustable Hanger Ring

WALL BRACKET PIPE HANGER DETAIL — NTS — 4

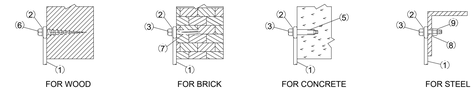
DESIGN DATA FOR EYE ROD HANGER



COMPONENTS
1. EYE ROD
2. FLAT WASHER
3. HEX HEAD CAP SCREW
4. ADJUSTABLE HANGER RING
5. DROP-IN ANCHOR
6. HEX HEAD LAG SCREW
7. EXPANSION CASE
8. LOCK WASHER
9. HEX NUT

NOMINAL PIPE SIZE	MINIMUM A DIMENSION INCHES	HANGER TAKEOUT INCHES	ROD DIAMETER INCHES
1/2	4 1/4	-1 1/4	3/8
3/4	4 1/4	-1 1/4	"
1	4 1/4	-1 1/4	"
1 1/4	4 1/2	-1 1/2	"
1 1/2	4 3/4	-1 1/2	"
2	5	-1 3/4	"
2 1/2	6 1/4	-2 1/4	"
3	6 3/4	-2 1/2	"
4	7 1/4	-3	"
5	8	-3 3/4	1/2
6	9	-4 1/4	"
8*	10 1/2	-6	"

* TO COMPLY WITH NFPA 13, THE ROD FOR AN 8" HANGER IS PROVIDED WITH A WELDED EYE.



* NFPA 13 SETS MINIMUM DISTANCES FOR PLACEMENT OF FASTENERS ABOVE THE BOTTOM OF BEAMS OR JOISIS.

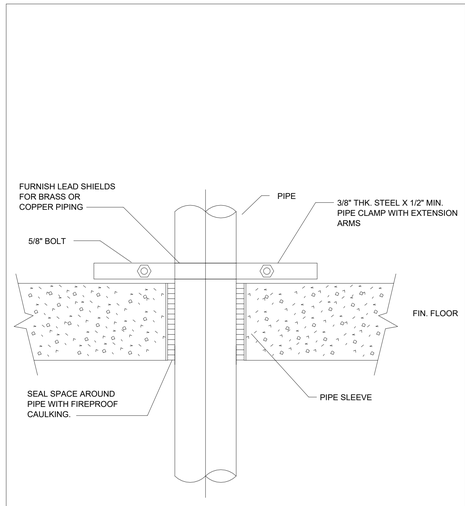
WOOD: 2 1/2" MINIMUM FOR BRANCH LINES (PIPE SIZES 2" SMALLER)
3" MINIMUM FOR MAINS (PIPE SIZES 2 1/2" & LARGER)

CONCRETE: DISTANCES AS REQUIRED TO PLACE THE FASTENER ABOVE THE CENTERLINE OF THE BEAM OR ABOVE THE BOTTOM REINFORCEMENT STEEL.

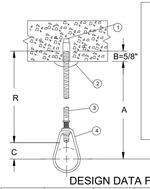
STANDARD FASTENERS FOR EYE ROD HANGERS

NOMINAL PIPE SIZES	WOOD		BRICK		CONCRETE		STEEL	
	QTY	ITEMS	QTY	ITEMS	QTY	ITEMS	QTY	ITEMS
1/2" THRU 2"	1 1	3/8" x 2 1/2" HEX HEAD LAG SCREW 3/8" FLAT WASHER	1 1 1	3/8" EXPANSION CASE 3/8" x 2" HEX HEAD CAP SCREW 3/8" FLAT WASHER	1 1 1	3/8"DROP-IN ANCHOR -HILTI HDI 3/8" 3/8" x 1" HEX HEAD CAP SCREW 3/8" FLAT WASHER	1 1 1	3/8" x 1 1/2" HEX HEAD CAP SCREW 3/8" HEX NUT 3/8" LOCK WASHER
2 1/2" THRU 6"	1 1	1/2" x 3" HEX HEAD LAG SCREW 1/2" FLAT WASHER	1 1 1	1/2" EXPANSION CASE 1/2" x 2 1/2" HEX HEAD CAP SCREW 1/2" FLAT WASHER	1 1 1	1/2"DROP-IN ANCHOR -HILTI HDI 1/2" 1/2" x 1 1/4" HEX HEAD CAP SCREW 1/2" FLAT WASHER	1 1 1 1	1/2" x 2" HEX HEAD CAP SCREW 1/2" HEX NUT 1/2" LOCK WASHER
8"	1 1	5/8" x 3" SQUARE HEAD LAG SCREW 5/8" FLAT WASHER	1 1 1	5/8" EXPANSION CASE 5/8" x 2 3/4" HEX HEAD CAP SCREW 5/8" FLAT WASHER	1 1 1	5/8"DROP-IN ANCHOR -HILTI HDI 5/8" 5/8" x 1 1/2" HEX HEAD CAP SCREW 5/8" FLAT WASHER	1 1 1 1	5/8" x 2 1/2" HEX HEAD CAP SCREW 5/8" HEX NUT 5/8" LOCK WASHER

EYE ROD PIPE HANGER — NTS — 2



PIPE RISER SUPPORT DETAIL — 9



COMPONENTS
1. DROP-IN ANCHOR
2. SPRING CLIP CEILING PLATE (OPTIONAL)
3. HANGER ROD
4. ADJUSTABLE HANGER RING
5. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A LICENSED STRUCTURAL ENGINEER ON ALL HANGERS THAT PENETRATE CONCRETE STRUCTURES AND THIS CONTRACTOR SHALL SUBMIT CALCULATIONS AND COMPLIANCE LETTER MEETING NFPA 13 REQUIREMENTS WITH PROFESSIONAL ENGINEER SEAL, SIGNATURE AND DATE. ENGINEER SHALL BE LICENSED AS A PROFESSIONAL ENGINEER IN THE STATE WHERE THE WORK SHALL OCCUR.

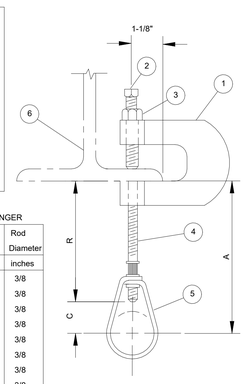
DESIGN DATA FOR CONCRETE HANGERS

NOMINAL PIPE SIZE	MINIMUM A DIMENSION	HANGER TAKEOUT	ROD DIAMETER	FASTENERS QTY	FASTENERS ITEMS
	INCHES				
1/2	3	-1/2	3/8	1	3/8" DROP-IN ANCHOR - HILTI HDI 3/8"
3/4	3	-1/2	"		"
1	3	-1/2	"		"
1 1/4	3 1/4	-3/4	"		"
1 1/2	3 1/2	-1	"		"
2	3 3/4	-1 1/4	"		"
2 1/2	4 3/4	-1 3/4	"		"
3	5	-2	"		"
4	5 3/4	-2 1/2	"		"
5	6 1/2	-3	1/2	1	1/2" DROP-IN ANCHOR - HILTI HDI 1/2"
6	7 1/2	-3 3/4	"		"
8	9	-5 1/4	"		"

* DRILL BIT SIZES REQUIRED: 1/2" FOR THE 3/8" ANCHOR AND 5/8" FOR THE 1/2" ANCHOR. A MINIMUM CONCRETE SLAB THICKNESS OF 4" IS RECOMMENDED.

CONCRETE PIPE HANGER — NTS — 6

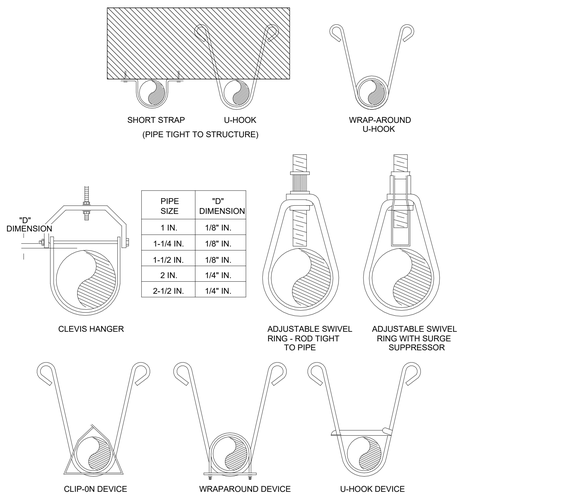
Components:
1. C-Clamp
2. Set Screw
3. Lock Nut
4. Hanger Rod
5. Adjustable Hanger Ring
6. Steel Beam or Bar Joist



DESIGN DATA FOR C-CLAMP HANGER

Nominal Pipe Size	Minimum A Dimension inches	Hanger Takeout inches	Rod Diameter inches
1/2	3 1/2	-1 1/4	3/8
3/4	3 1/2	-1 1/4	3/8
1	3 1/2	-1 1/4	3/8
1 1/4	3 3/4	-1 1/2	3/8
1 1/2	4	-1 1/2	3/8
2	4 1/4	-1 3/4	3/8
2 1/2	5	-2 1/4	3/8
3	5 1/2	-2 1/2	3/8
4	6	-3	3/8
5	6 3/4	-3 3/4	1/2
6	7 3/4	-4 1/2	1/2
8	9 1/4	-6	1/2

STANDARD C-CLAMP PIPE HANGER — NTS — 3



PIPE SIZE	"D" DIMENSION
1 IN.	1/8" IN.
1-1/4 IN.	1/8" IN.
1-1/2 IN.	1/8" IN.
2 IN.	1/4" IN.
2-1/2 IN.	1/4" IN.

ACCEPTABLE HANGERS FOR END OF LINE PENDANT SPRINKLERS — NTS — 1

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE SUPPRESSION - DETAILS

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: GAT | Drawn: JRC

Project Number: 508-349

Building Number:

Drawing Number: FX002

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC/4792 - CE Central Model.rvt

12/16/2024 9:42:04 AM

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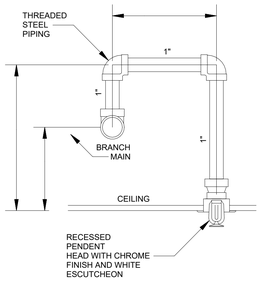
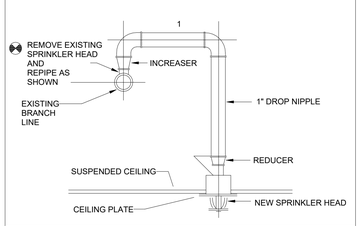
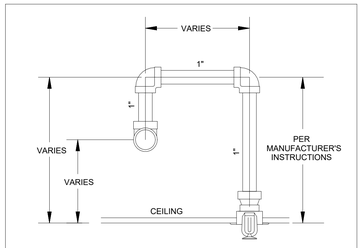


ARM OVER WITH RECESSED PENDENT HEAD NTS 14



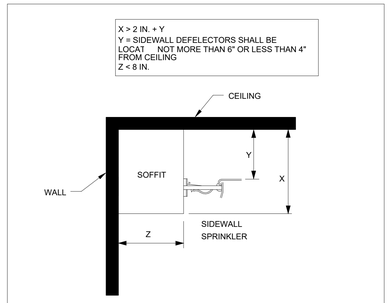
SPRINKLER HEAD DETAIL NTS 13

FIRE SUPPRESSION FOR GAS APPLIANCES - KITCHEN HOOD WIRING DETAIL NTS 16

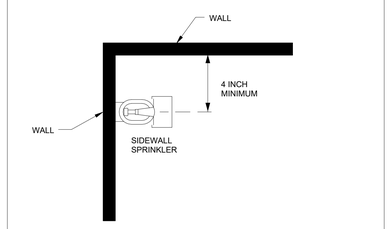


QUICK RESPONSE RECESSED DRY PENDENT FOR ALL DRY SPRINKLER AREAS OR AS NOTED. PROVIDE CHROME HEAD AND CHROME ESCUTCHEON.

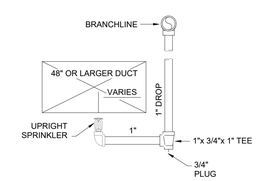
TYPICAL RETURN BEND DETAIL NTS 12



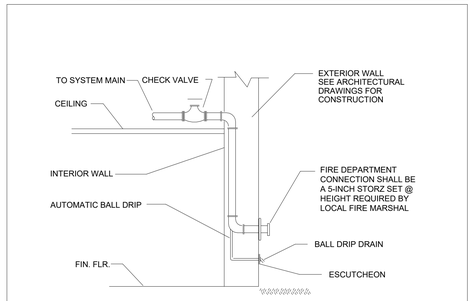
INSTALLATION OF SIDEWALL SPRINKLER ALONG A SOFFIT NTS 10



PLACEMENT OF SIDEWALL SPRINKLER ADJACENT TO AN END WALL NTS 9



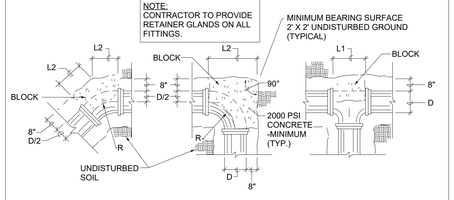
UNDER DUCT SPRINKLER DETAIL NTS 8



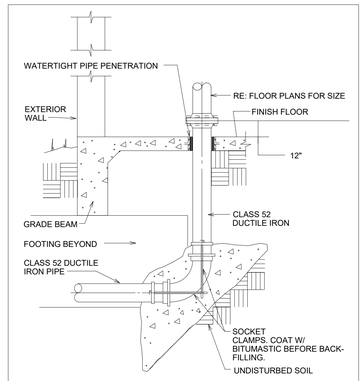
FIRE DEPT. STORZ CONNECTION DETAIL NTS 11

PIPE SIZE	"D"	"L1"	"L2"
4"	4.8"	9.6"	6.9"
6"	6.9"	13.8"	9.5"
8"	9.1"	18.1"	11.5"

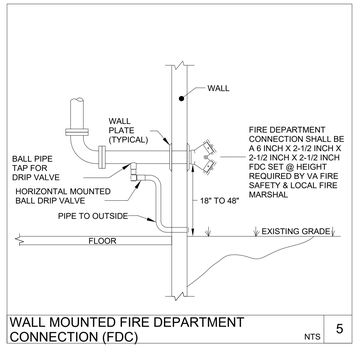
NOTE:
CONTRACTOR TO PROVIDE RETAINER GLANDS ON ALL FITTINGS.



THRUST BLOCK DETAIL NTS 7

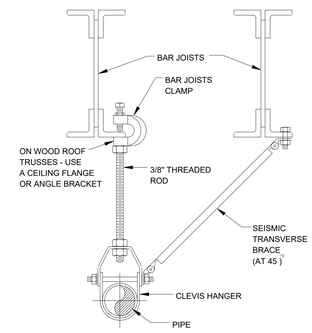


FIRE SERVICE ENTRY NTS 6

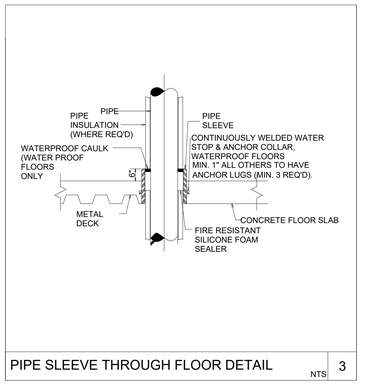


WALL MOUNTED FIRE DEPARTMENT CONNECTION (FDC) NTS 5

NOTE:
PROVIDE SEISMIC RESTRAINTS FOR PIPING AS FOLLOWS:
- 1" & 1-1/2" PIPES: 20 FT. ON CENTER
- 2" & 2-1/2" PIPES: 30 FT. ON CENTER
- 3" , 4" & 6" PIPES: 40 FT. ON CENTER



PIPE SUPPORT AND SEISMIC RESTRAINT - HORIZONTAL PIPING NTS 4

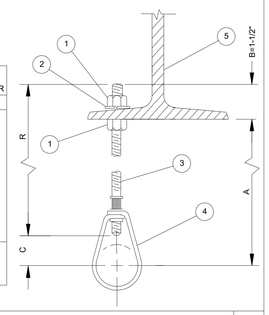


PIPE SLEEVE THROUGH FLOOR DETAIL NTS 3

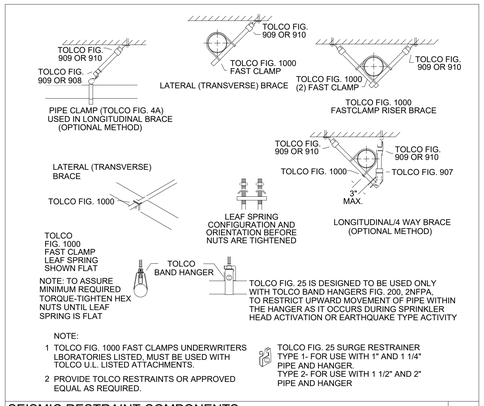
COMPONENTS:
1. HEX NUT
2. LOCK WASHER
3. HANGER ROD
4. ADJUSTABLE HANGER RING
5. STEEL BEAM OR BAR JOIST

DESIGN DATA FOR BEAM HANGER

NOMINAL PIPE SIZE	MINIMUM A DIMENSION INCHES	HANGER TAKEOUT INCHES	ROD DIAMETER INCHES
1/2	3	+1/4	3/8
3/4	3	+1/4	3/8
1	3	+1/4	3/8
1 1/4	3 1/4	+0	3/8
1 1/2	3 1/2	+0	3/8
2	3 3/4	-1/4	3/8
2 1/2	4 3/4	-3/4	3/8
3	5	1	3/8
4	5 3/4	-1 1/2	3/8
5	6 1/2	-2 1/4	1/2
6	7 1/2	-3	1/2
8	9	-4 1/2	1/2



BEAM PIPE HANGER NTS 2



NOTE:
1 TOLCO FIG. 1000 FAST CLAMPS UNDERWRITERS LBORATORIES LISTED, MUST BE USED WITH TOLCO U.L. LISTED ATTACHMENTS.
2 PROVIDE TOLCO RESTRAINTS OR APPROVED EQUAL AS REQUIRED.

TOLCO FIG. 25 SURGE RESTRAINER TYPE 1- FOR USE WITH 1" AND 1 1/4" PIPE AND HANGER.
TYPE 2- FOR USE WITH 1 1/2" AND 2" PIPE AND HANGER

SEISMIC RESTRAINT COMPONENTS (TYPICAL APPLICATIONS) NTS 1

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE SUPPRESSION - DETAILS

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: GAT | Drawn: JRC

Project Number: 508-349

Building Number:

Drawing Number: FX003

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC4792 - CE Central Model.rvt

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VA FORM 08 - 6231

FIRE HYDRANT FLOW TEST

FIRE HYDRANT FLOW TEST:

DATE PERFORMED: 07/28/2022
CONTRACTOR: ATCO FIRE PROTECTION
ADDRESS: 90 HUFFAKER ROAD
570 GRIFFITH ROAD NW
ROME, GA 30165

PERFORMED BY: BRAD DENNIS
COMPANY: ATCO FIRE PROTECTION
ADDRESS: 90 HUFFAKER ROAD
570 GRIFFITH ROAD NW
ROME, GA 30165

LOCATION: TRINKA DAVIS VETERAN'S VILLAGE
ADDRESS: 180 MARTIN DRIVE
CARROLLTON, GA 30117

IDENTIFICATION: HYDRANT NO. 3
1. STATIC PRESSURE: 80 PSI
2. RESIDUAL PRESSURE: 52 PSI
3. FLOW: 1,130 GPM

NOTE:

1. CONTRACTOR MUST PERFORM THERE OWN CITY OF CARROLLTON FIRE WATER FIRE HYDRANT FLOW TESTS FOR THEIR DESIGN INPUTS FOR THEIR FIRE PROTECTION HYDRAULIC CALCULATIONS AND PIPE SIZING FOR THIS PROJECT'S SCOPE OF WORK.
2. THE ABOVE RESULTS ARE NOT VALID FOR HYDRAULIC CALCULATIONS SINCE THEY ARE OVER 12 MONTHS OLD. NEW FLOW TEST WILL BE REQUIRED TO BE PERFORMED BY THE CONTRACTED FIRE SUPPRESSION CONTRACTOR PRIOR TO THE PERFORMANCE OF HYDRAULIC CALCULATIONS TO BE PERFORMED BY THE FIRE SUPPRESSION CONTRACTOR TO MEET THE REQUIREMENTS OF NFPA 13, PARAGRAPH 4.5.1.1.

INTERIM FIRE ALARM, FIRE EXTINGUISHERS AND FIRE SUPPRESSION REQUIREMENTS

A. FIRE ALARM REQUIREMENTS:

1. THE FIRE SUPPRESSION CONTRACTOR SHALL COORDINATE WITH THE VA FIRE OFFICIAL AS TO THE CLOSEST READILY ACCESSIBLE PUBLIC FIRE ALARM BOX NEAR THE CONSTRUCTION PREMISE TO REPORT A FIRE INCIDENT OR OCCURRENCE.
   - INSTRUCTIONS SHALL BE CREATED AND ISSUED FOR ALL CONTRACTORS AND SUB-TIER CONTRACTORS BY THE FIRE SUPPRESSION CONTRACTOR FOR PROCEDURES FOR IMMEDIATE NOTIFICATION TO THE VA FIRE SAFETY REPRESENTATIVE AND/OR LOCAL FIRE DEPARTMENT IN THE CASE OF A FIRE. WHERE TELEPHONE SERVICE IS EMPLOYED, E.G., CELLULAR OF LAND LINE SERVICE TO THE RESPONDING FIRE DEPARTMENT OR EQUIVALENT FACILITIES.
2. THE FIRE ALARM CONTRACTOR SHALL PROVIDE, FURNISH AND INSTALL, NEW FIXED TEMPERATURE HEAT DETECTORS IN THE WORK AREA DURING CONSTRUCTION AND THE HEAT DETECTORS ARE PROVIDED AS AN INTERIM EQUIVALENT SAFETY MEASURE TO BE PROVIDED DURING A FIRE ALARM OR FIRE SUPPRESSION SYSTEM IMPAIRMENT TO THE NEW BUILDING CONSTRUCTION.
3. THE HEAT DETECTORS SPACING WITHIN THE CONSTRUCTION AREAS SHALL FOLLOW NFPA 72 AND NFPA 241 REQUIREMENTS. THE HEAT DETECTORS SHALL BE CONFIGURED/INTERFACED WITH THE NEW LOCAL FIRE ALARM PANEL AND THE SITE'S EXISTING MAIN FIRE ALARM AND DETECTION SYSTEM FOR MONITORING DURING A SYSTEM IMPAIRMENT AND DURING THE RENOVATION WITHIN NEW BUILDING CONSTRUCTION.
4. THE TEMPORARY FIRE DETECTION SYSTEM FOR NEW BUILDINGS SHALL BE FULLY OPERATIONAL PRIOR TO ANY SIGNIFICANT COMBUSTIBLE MATERIALS ARE PRESENT WITHIN THE PERIMETER OF THE BUILDING.
5. THE TEMPORARY FIRE DETECTION SYSTEM FOR NEW CONSTRUCTION BUILDING SHALL INCLUDE THE HEAT DETECTORS INCLUDING ALL WIRING, PROGRAMMING, ETC., TO/FROM THE INDIVIDUAL DEVICES, TO THE LOCAL FIRE ALARM PANEL WITHIN THE NEW BUILDING AND INTERFACE WITH THE TRINKA DAVIS EXISTING FACILITIES MAIN FIRE ALARM CONTROL PANEL FOR 24/7 MONITORING IS A PROJECT REQUIREMENT. THE TEMPORARY FIRE ALARM DEVICES SHALL BE REMOVED OR LEFT IN PLACE DEPENDIENT ON THE COR'S REQUIREMENT.
6. ALL SHUTDOWNS SHALL BE COORDINATED AND APPROVED THROUGH THE VA COR'S REPRESENTATIVE AND SHALL REQUIRE A MINIMUM OF 15 DAYS ADVANCED NOTICE, THIVA S TIME LENGTH MAY BE LONGER OF SHORTER FOR SOME SHUTDOWNS AND SHALL BE AT THE COR'S DISCRETION. DRAINING AND REFILLING OF THE EXISTING SYSTEM IS A RESPONSIBILITY OF THE COR'S REPRESENTATIVE.
7. ALL DISRUPTIONS IN THE FIRE SUPPRESSION SYSTEM SHALL BE COMPENSATED WITH AN APPROVED FIRE WATCH AND STANDBY PERSONAL PROVIDED BY THE FIRE SUPPRESSION CONTRACTOR.

B. FIRE EXTINGUISHERS REQUIREMENTS:
1. THE NEW BUILDING CONSTRUCTION SHALL REQUIRE THE PLACEMENT OF FIRE EXTINGUISHERS BY THE FIRE SUPPRESSION CONTRACTOR AS FOLLOWS:
   - PROVIDE AT EACH LOCATION A PORTABLE FIRE EXTINGUISHER SHALL BE PROVIDED WHERE HAZARDS EXIST, SUCH AS THE STORAGE AND USE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS OR COMBUSTIBLE MATERIAL ARE PRESENT WITHIN THE PERIMETER OF THE BUILDING CONSTRUCTION.
   - FIRE EXTINGUISHERS SHALL BE LOCATED SO THAT THE TRAVEL DISTANCE TO A FIRE EXTINGUISHER DOES NOT EXCEED FIFTY FEET.

C. FIRE EXTINGUISHERS TO BE PROVIDED DURING CONSTRUCTION SHALL BE AN EQUIVALENT TO A 10 LB., DRY CHEMICAL (4A:80B:C) FIRE EXTINGUISHER FOR BUSINESS OCCUPANCIES.

D. HYDRANTS:
- FREE ACCESS FROM THE CONSTRUCTION SITE TO THE CLOSEST FIRE HYDRANT OR OTHER FIRE EXTINGUISHING EQUIPMENT; WHETHER PERMANENT OR TEMPORARY SHALL BE PROVIDED AND MAINTAINED BY THE VA FIRE SAFETY REPRESENTATIVE OR EQUIVALENT.

E. TEMPORARY HEATING:
1. CONTRACTOR PROVIDED TEMPORARY HEATING SHALL BE PROVIDED MEETING THE REQUIREMENTS OF NFPA 241, SECTION 5.2.
2. TEMPORARY HEATING SHALL BE OPERATIONAL PRIOR TO ACTIVATION OF THE WET/DRY-PIPE TEMPORARY SPRINKLER SYSTEM AND THE INDOOR TEMPERATURE SHALL BE NO LOWER THAN 40 DEGREE F, TO AVOID FIRE SUPPRESSION PIPING FREEZING.

F. FLAMMABLE AND COMBUSTIBLE LIQUIDS:
1. STORAGE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS SHALL BE IN ACCORDANCE WITH NFPA 30 AND NFPA 241, SECTION 5.5.

G. FIRE SUPPRESSION REQUIREMENTS DURING CONSTRUCTION:
1. FIRE WATER SUPPLY:
   - THE WATER SUPPLY FOR FIRE PROTECTION SHALL BE MADE AVAILABLE BY THE FIRE SUPPRESSION CONTRACTOR PRIOR TO ANY SIGNIFICANT COMBUSTIBLE MATERIAL SHALL BE MADE WITHIN THE PERIMETER OF THE NEW CONSTRUCTION BUILDING, WHERE THAT ADDITION SHALL OCCUR.
   - THERE SHALL BE NO DELAY IN THE INSTALLATION OF THE FIRE SUPPRESSION EQUIPMENT.
   - THE UNDERGROUND MAIN FOR NEW BUILDING CONSTRUCTION ARE TO BE PROVIDED BY THE FIRE SUPPRESSION CONTRACTOR, THEY SHALL BE INSTALLED, COMPLETED, AND IN SERVICE PRIOR TO COMMENCING WITH CONSTRUCTION WORK ON NEW BUILDING INTERIOR CONSTRUCTION.
2. FIRE SPRINKLER PROTECTION:
   - AUTOMATIC SPRINKLER PROTECTION SHALL BE PROVIDED AND INSTALLED BY THE FIRE SUPPRESSION CONTRACTOR WITH TEMPORARY SPRINKLER HEADS AS SOON AS PRACTICABLE.
   - THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13 AND MEET THE REQUIREMENTS OF NFPA 241, SECTION 8.7.3.
3. OPERATION OF VALVES: OPERATION OF SPRINKLER CONTROL VALVES SHALL BE PERMITTED ONLY BY AUTHORIZED PERSONNEL AND SHALL BE ACCOMPANIED BY NOTIFICATION OF DULY DESIGNATED PARTIES. WHEN THE SPRINKLER SYSTEM IS BEING REGULARLY TURNED OFF TO FACILITATE CONNECTION OF NEWLY COMPLETED SEGMENTS, THE SPRINKLER CONTROL VALVE SHALL BE CHECKED AT THE END OF EACH WORK DAY TO ASCERTAIN THAT THE PROTECTION IS IN SERVICE.

PROCEDURES FOR IMPAIRMENT TO THE FIRE PROTECTION SYSTEM

1. MINIMUM REQUIREMENTS

A. THE FIRE SUPPRESSION CONTRACTOR SHALL ENACT MEASURES THAT SHALL BE TAKEN DURING THE IMPAIRMENT TO ENSURE THAT INCREASED RISKS ARE MINIMIZED AND THE DURATION OF THE IMPAIRMENT IS LIMITED.

B. THE FIRE SUPPRESSION CONTRACTOR SHALL NOTIFY IN WRITING TO THE ARCHITECT, ENGINEER, VA COR OF THE PLANNED IMPAIRMENT, PROCEDURES DURING THE IMPAIRMENT, TESTING RE-COMMISSIONING OF THE FIRE PROTECTION/FIRE ALARM SYSTEMS FOR PROTECTION OF THE AFFECTED LOCATIONS WITHIN THE SCOPE OF WORK SUITE.

C. THE FIRE SUPPRESSION CONTRACTOR THROUGH THE VA COR SHALL PREPARE AND SUBMIT TO THE VA COR FOR THE VA COR'S DISTRIBUTION TO THE EMPLOYEES IN THE AREA OF THE IMPAIRMENT SHALL BE PROVIDED WITH INFORMATION ON ALTERNATE FIRE PROTECTION THAT WILL BE AVAILABLE.

D. THE SUSPENSION OF ALL NON-ESSENTIAL HOT WORK PERMITS UNTIL THE CONCLUSION AND REACTIVATION OF THE FIRE SUPPRESSION SYSTEM AND INTERFACING FIRE DETECTION SYSTEM.

2. FIRE PROTECTION IMPAIRMENT PLAN

A. A FIRE PROTECTION IMPAIRMENT PLAN SHOULD BE DEVELOPED AND IMPLEMENTED BY THE FIRE SUPPRESSION CONTRACTOR BEFORE AUTHORIZATION IS GIVEN, THE IMPAIRMENT COORDINATOR SHOULD VERIFY THAT THE FOLLOWING PROCEDURES HAVE BEEN IMPLEMENTED:

- THE EXTENT AND EXPECTED DURATION OF THE IMPAIRMENT THAT HAS BEEN DETERMINED.
- THE AREA OF THE BUILDING THAT WILL BE AFFECTED HAS BEEN INSPECTED AND THE INCREASED RISKS DETERMINED.
- RECOMMENDATIONS HAVE BEEN SUBMITTED TO THE ARCHITECT, ENGINEER AND VA COR OR VA COR'S REPRESENTATIVE TO MITIGATE ANY INCREASED RISKS.
- WHERE A REQUIRED FIRE PROTECTION SYSTEM IS OUT OF SERVICE FOR MORE THAN FOUR (4) HOURS IN A 24 HOUR PERIOD THE FIRE SUPPRESSION CONTRACTOR & VA COR SHALL ARRANGE FOR THE FOLLOWING:
  - AN APPROVED FIRE WATCH.
  - ESTABLISHMENT AND IMPLEMENTATION OF AN APPROVED PROGRAM TO ELIMINATE POTENTIAL IGNITION SOURCES AND LIMIT OF THE AMOUNT OF COMBUSTIBLES IN THE AREA OF CONSTRUCTION.
  - ASSIGN PERSONNEL TO TRANSMIT FIRE ALARMS TO THE OWNER'S HOSPITAL COORDINATOR WHERE THE MAIN FIRE ALARM PANEL IS BEING MONITORED FOR 24/7 COVERAGE.

3. TAG IMPAIRMENT SYSTEM

A. A TAG SHALL BE USED TO INDICATE THAT A SYSTEM OR PART THERE OF, HAS BEEN REMOVED FROM SERVICE. THE FIRE SUPPRESSION CONTRACTOR SHALL PLACE TAGS ON ALL AFFECTED COMPONENTS, E.G., TAMPER SWITCHES, VALVES, FIRE ALARM ANNUNICATOR DEVICES, ETC., PRIOR TO THE COMMENCEMENT OF ANY WORK.

B. THE TAG SHALL BE POSTED AT EACH FIRE PROTECTION CONNECTION AND SYSTEM CONTROL VALVE AND OTHER LOCATION REQUIRED BY THE VA COR' AND VA FIRE OFFICIAL, INDICATING WHICH SYSTEM, OR PART THERE OF, HAS BEEN REMOVED FROM SERVICE.

- THE SUPERVISORS IN THE AREA TO THE AFFECTED AREA HAS BEEN NOTIFIED.
- THE FIRE DEPARTMENT HAS BEEN NOTIFIED.
- A TAG IMPAIRMENT SYSTEM HAVE BEEN IMPLEMENTED.
- ALL NECESSARY TOOLS, EQUIPMENT, MATERIAL AND APPURTENANCES ARE LOCATED AND ASSEMBLED ON THE IMPAIRMENT SITE.

4. RESTORING SYSTEMS TO SERVICE

A. WHEN ALL IMPAIRED EQUIPMENT IS RESTORED TO NORMAL WORKING ORDER, THE ARCHITECT/ ENGINEER SHALL VERIFY THAT THE FIRE SUPPRESSION CONTRACTOR HAS IMPLEMENTED THE FOLLOWING PROCEDURES:

- ALL NECESSARY INSPECTION HAVE BEEN CONDUCTED FOLLOWING NFPA 13, 24, 25 AND 72 REQUIREMENTS IN ORDER TO VERIFY THAT THE AFFECTED SYSTEM ARE OPERATION. CONTRACTOR SHALL SUBMIT ALL REQUIRED RECORDS AND RECORDS SHALL INDICATE THE PROCEDURE PERFORMED, THE ORGANIZATION THAT PERFORMED THE WORK, RESULTS AND THE DATE.
- OPEN ALL VALVES THAT WERE SECURED DURING THE IMPAIRMENT.
- REMOVE IMPAIRMENT TAG ONCE VALVES ARE OPEN.
- CONDUCT A DRAIN TEST IN THE WIDE OPEN POSITION.
- ENSURE THE FIRE PROTECTION SYSTEM IS PLACED BACK TO "AUTOMATIC" SERVICE.
- RESET FIRE ALARM SYSTEM AND NOTIFY OWNER'S REPRESENTATIVE AND FIRE ALARM COMPANY THAT MONITORS THE OWNER'S MAIN FIRE ALARM PANEL ON 24/7 COVERAGE.
- ARCHITECT, ENGINEER AND OWNERS REPRESENTATIVE HAVE BEEN ADVISED THAT THE FIRE PROTECTION AND FIRE DETECTION SYSTEM THAT WAS IMPAIRED HAS BEEN RESTORED.
- THE VA COR, VA FIRE OFFICIAL, FIRE ALARM COMPANY WHO MONITORS THE MAIN FIRE ALARM PANEL FOR 24/7 COVERAGE HAVE BEEN ADVISED THAT BOTH FIRE PROTECTION SYSTEMS IS RESTORED.
- THE IMPAIRMENT TAG HAS BEEN REMOVED.

FIRE WATCH PROCEDURES AND REQUIREMENTS

A. THE FIRE SUPPRESSION CONTRACTOR'S FIRE WATCH PERSONNEL SHALL BE TRAINED TO UNDERSTAND THE INHERENT HAZARDS OF THE WORK SITE AND OF THE HOT WORK TO OCCUR.
B. THE FIRE SUPPRESSION CONTRACTOR'S FIRE WATCH SHALL ENSURE THAT SAFE CONDITIONS ARE MAINTAINED DURING OUTAGE OF THE FIRE ALARM/FIRE SUPPRESSION SYSTEM AND/OR DURING THE OCCURRENCE OF HOT WORK OPERATION.
C. THE FIRE SUPPRESSION CONTRACTOR'S FIRE WATCH SHALL HAVE THE AUTHORITY TO STOP HOT WORK OPERATIONS IF UNSAFE OPERATIVE DEVELOPS.
D. THE FIRE SUPPRESSION CONTRACTOR'S FIRE WATCH SHALL HAVE FIRE EXTINGUISHING EQUIPMENT READILY AVAILABLE AND TRAINED IN ITS USE, E.G., FIRE EXTINGUISHERS.
E. THE FIRE SUPPRESSION CONTRACTOR'S FIRE WATCH SHALL BE FAMILIAR WITH OWNER'S FACILITIES AND PROCEDURES FOR SOUNDING AN ALARM IN THE EVENT OF A FIRE.
F. THE FIRE SUPPRESSION CONTRACTOR'S FIRE WATCH SHALL WATCH FOR FIRES IN ALL EXPOSED AREAS AND TRY TO EXTINGUISH A FIRE ONLY WHEN THE FIRES ARE OBVIOUSLY WITHIN THE CAPACITY OF THE AVAILABLE EXTINGUISHING EQUIPMENT. IF THE FIRE WATCH DETERMINES THAT THE FIRE IS NOT WITHIN THE CAPACITY OF THE EQUIPMENT THE FIRE WATCH SHALL SOUND AN ALARM IMMEDIATELY (E.G.,INITIATE A MANUALLY ACTUATED ALARM INDICATING DEVICE THAT IS OUTSIDE OF THE CONSTRUCTION AREA DURING THE DISRUPTION OF THE FIRE ALARM/DETECTION WITHIN THE CONSTRUCTION WORK SCOPE OR WITHIN THE CONSTRUCTION WORK SCOPE IF THE FIRE ALARM/DETECTION SYSTEM HAS BEEN ACTIVATED).
G. BEFORE STARTING ANY HOT WORK, CONTRACTORS AND THE VA COR SHALL DISCUSS THE PLANNED PROJECT COMPLETELY INCLUDING THE TYPE OF HOT WORK TO BE CONDUCTED AND THE HAZARDS IN THE AREA WITH THE ASSOCIATED PLAN OF ACTION, IN ORDER, TO PROVIDE EQUIVALENT SAFETY MEASURES TAKEN DURING THE FIRE DETECTION OR FIRE SUPPRESSION IMPAIRMENT.

PROCEDURES FOR DRAINING WET PIPE SYSTEM

1. THE FIRE SUPPRESSION CONTRACTOR SHALL DRAIN A WET PIPE SYSTEM THE PROCEDURE TO BE PERFORMED AND SUBMITTED TO THE ARCHITECT, ENGINEER, VA FIRE OFFICIAL AND VA COR SHOULD INCLUDE BUT NOT LIMITED TO THE FOLLOWING.

1.1. CLOSE ALL SPRINKLER CONTROL VALVES.
1.2. TAG ALL CLOSED VALVES.
1.3. OPEN MAIN DRAIN VALVES AND AUXILIARY DRAINS ALLOWING THE SYSTEM FOR 100% COMPLETE DRAINAGE.
1.4. WHEN THE WATER HAS BEEN COMPLETELY DRAINED, CLOSE THE MAIN DRAIN AND AUXILIARY DRAIN VALVES. WHEN THE WATER HAS STOPPED FLOWING, CHECK ALL CONTROL VALVES TO BE SURE THEY ARE TIGHTLY SHUT; ANY MALFUNCTION CONTROL VALVES SHOULD BE REPAIRED AND/OR REPLACED IMMEDIATELY AS DEEMED APPLICABLE.
1.5. CHECK FOR WATER TRAPPED AT ALL LOW POINTS IN PIPING THAT LACK AUXILIARY DRAINS; REMOVE DRAIN AND REPLACE SUCH PIPING.
1.6. ONCE ABOVE ITEM ARE CONFIRMED WITH 100% CERTAINTY THE FIRE SUPPRESSION CONTRACTOR SHALL PERFORM ALL NEW INSTALLATIONS.

Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: FIRE SUPPRESSION - FLOW TEST AND IMPAIRMENT AND TEMPORARY REQUIREMENTS

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: GAT | Drawn: JRC

Project Number: 508-349

Building Number:

Drawing Number: FX004

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC\4792 - CE Central Model.rvt

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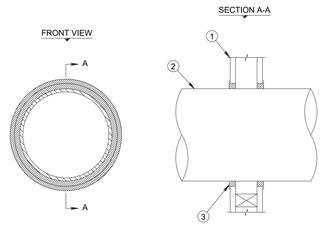
NOTES:

1. DETAILS SHOWN ARE TYPICAL DETAILS. IF FIELD CONDITIONS DO NOT MATCH THE REQUIREMENTS OF THE TYPICAL DETAILS, APPROVED ALTERNATE DETAILS SHALL BE UTILIZED. FIELD CONDITIONS AND DIMENSION NEED TO BE VERIFIED FOR COMPLIANCE WITH THE DETAILS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   A. MINIMUM AND MAXIMUM WIDTH OF JOINTS.
   B. TYPE AND THICKNESS OF FIRE-RATED CONSTRUCTION. THE MINIMUM ASSEMBLY RATING OF THE FIRE STOP ASSEMBLY SHALL MEET OR EXCEED THE HIGHEST RATING OF THE ADJACENT CONSTRUCTION.
2. IF ALTERNATE DETAILS MATCHING THE FIELD CONDITIONS ARE NOT AVAILABLE, MANUFACTURER'S ENGINEERING JUDGEMENT DRAWINGS ARE ACCEPTABLE. DRAWINGS SHALL FOLLOW THE INTERNATIONAL FIRESTOP COUNCIL (IFC) GUIDELINES FOR EVALUATING FIRESTOP SYSTEM ENGINEERING JUDGEMENTS.
3. REFERENCES:
   A. 2013 UNDERWRITER'S LABORATORIES FIRE RESISTANCE DIRECTORY, VOLUME 2
   B. NFPA 101, LIFE SAFETY CODE
   C. ALL GOVERNING LOCAL AND REGIONAL BUILDING CODES
4. FIRESTOP SYSTEM INSTALLATION MUST MEET THE REQUIREMENTS OF ASTM E-814 (UL 1479) TESTED ASSEMBLIES THAT PROVIDE A FIRE RATING EQUAL TO THAT OF THE CONSTRUCTION BEING PENETRATED.
5. ALL RATED THROUGH-PENETRATIONS SHALL BE PROMINENTLY LABELED WITH THE FOLLOWING INFORMATION:
   A. ATTENTION: FIRE RATED ASSEMBLY
   B. UL SYSTEM #
   C. PRODUCT(S) USED
   D. HOURLY RATING (F-RATING)
   E. INSTALLATION DATE

U.L. SYSTEM NO. WL1052

METAL PIPE THROUGH 1-HR. GYPSUM WALL

F RATING = 1-HR.
T RATING = 0-HR.



1. 1-HR. FIRE-RATED GYPSUM WALL ASSEMBLY.
2. 10" DIA. (OR SMALLER) STEEL PIPE, 4" DIA. (OR SMALLER) COPPER PIPE, EMT OR CONDUIT.
3. MIN. 5/8" DEPTH HILTI FS 601.

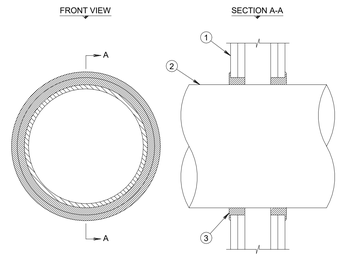
NOTE : NOMINAL ANNULAR SPACE OF 1/4" TO 1" REQUIRED.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WL1054

METAL PIPE THROUGH 2-HR. GYPSUM WALL

F RATING = 2-HR.
T RATING = 0-HR.



1. 2-HR. FIRE-RATED GYPSUM WALL ASSEMBLY.
2. 10" DIA. (OR SMALLER) STEEL PIPE (SCHEDULE 10 OR HEAVIER), OR 4" DIA. (OR SMALLER) COPPER PIPE, EMT OR STEEL CONDUIT.
3. MINIMUM 1-1/4" DEPTH HILTI FS 601 FIRESTOP SEALANT.

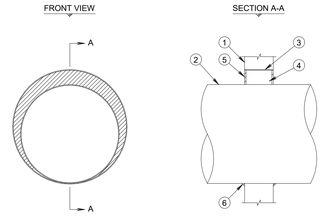
NOTES : 1. MAXIMUM DIAMETER OF OPENING = 12-1/2".
2. ANNULAR SPACE = MIN. 1/4" TO MAX. 1".

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WJ1021

STEEL/COPPER PIPE THROUGH CONCRETE OR CONCRETE BLOCK WALL

F RATING = 2-HR.
T RATING = 0 AND 1/4-HR.



1. WALL ASSEMBLY :
   A. MINIMUM 5" THICK CONCRETE WALL.
   B. ANY U.L. CLASSIFIED CONCRETE BLOCK WALL.
2. 17-1/4" DIA. (OR SMALLER) STEEL PIPE OR 4" DIA. (OR SMALLER) COPPER PIPE.
3. NO. 8 STEEL WIRE MESH RECESSED 1/8" BELOW EACH WALL SURFACE (FOR HOLLOW BLOCK WALLS ONLY).
4. MINIMUM 4-1/2" THICKNESS FLEXIBLE URETHANE SHEET, (MIN. 4 PCF DENSITY).
5. MINIMUM 1/4" DEPTH HILTI FS 605 FIRESTOP SEALANT.
6. 1/2" BEAD HILTI FS 605 SEALANT AT POINT OF CONTACT.

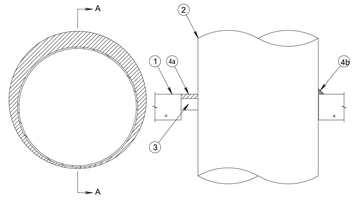
NOTES : 1. ANNULAR SPACE = MIN. 0", MAX. 2-3/4".
2. T RATING = 1/4-HR. WHEN STEEL PIPE IS USED.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. CAJ1156

STEEL PIPE THROUGH CONCRETE FLOOR OR WALL

F RATING = 3-HR.
T RATING = 0-HR.



1. FLOOR OR WALL ASSEMBLY :
   A. MIN. 4-1/2" THICK LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE.
   B. MIN. 8" CONCRETE BLOCK WALL.
2. 21" DIA. (OR SMALLER) STEEL PIPE.
3. MIN. 2" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED.
4. A. MIN. 3/4" DEPTH HILTI FS 605.
   B. MIN. 1/2" BEAD HILTI FS 605 AT POINT OF CONTACT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING 27".
2. ANNULAR SPACE 0" TO MAXIMUM 3".
3. WALLS REQUIRE 3/4" DEPTH OF HILTI FS 605 ON BOTH SIDES. IN HOLLOW BLOCK WALLS, USE STEEL WIRE MESH OR STEEL SLEEVE TO AID INSTALLATION.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS.
HILTI, INC. TULSA, OK 1-800-879-8000

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE SUPPRESSION - UL DETAILS

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: GAT | Drawn: JRC

Project Number: 508-349

Building Number:

Drawing Number: FX005

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC/4792 - CE Central Model.rvt
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FIRE SUPPRESSION SPECIFICATION - WET CHEMICAL COMMERCIAL KITCHEN HOOD SYSTEM

PART 1.0 - GENERAL

1.1 DESCRIPTION
A. THIS SECTION SPECIFIES THE WET CHEMICAL FIRE SUPPRESSION SYSTEM RELATIVE TO THE COMMERCIAL KITCHEN HOODS REQUIREMENTS.
1. ALL WET CHEMICAL FIRE SUPPRESSION EQUIPMENT AND ACCESSORIES MUST BE MANUFACTURED AND/OR SUPPLIED BY A WET CHEMICAL MANUFACTURERS
2. THE SYSTEM SHALL BE SUPPLIED AND INSTALLED BY FACTORY AUTHORIZED, SYSTEMS DISTRIBUTOR. THE ORGANIZATION AND INSTALLER SHALL BE TRAINED BY THE MANUFACTURER TO DESIGN, INSTALL, TEST AND MAINTAIN THE WET CHEMICAL FIRE SUPPRESSION SYSTEM AND SHALL BE ABLE TO PRODUCE A CERTIFICATE STATING SUCH UPON REQUEST.
3. THE WET CHEMICAL FIRE SUPPRESSION SYSTEM FOR THE COOKING APPLIANCES AND VENTILATION SHALL BE A PRE-ENGINEERED.
4. THE SYSTEM SHALL CONSIST OF CYLINDER & VALVE ASSEMBLIES, ACTUATION HARDWARE AND DISTRIBUTION NOZZLES ATTACHED TO A FIXED PIPE NETWORK.
5. THE SYSTEM SHALL USE WET CHEMICAL AGENT, A POTASSIUM SALT SOLUTION FIRE SUPPRESSION AGENT. THIS AGENT WORKS BY PRODUCING A SYNTHETIC CELLULAR MASS (SAPONIFICATION) ON THE SURFACE OF HOT OR BURNING GREASE. THIS FOAM LAYER ACTS TO SMOTHER A FIRE, AND SERVES TO PREVENT RE-FLASH UNTIL THE GREASE COOLS.
B. PROTECT EACH OF THE FOLLOWING COOKING EQUIPMENT ITEMS, INCLUDING BUT NOT LIMITED TO THE COMMERCIAL KITCHEN HOOD, THE EXHAUST HOOD, GREASE EXTRACTOR, GREASE FILTER, AND EXHAUST DUCT SERVING THE ITEM BY PRE-ENGINEERED WET CHEMICAL FIRE EXTINGUISHING SYSTEM. INSTALL SYSTEM WITH ALL ACCESSORIES NECESSARY FOR SYSTEM TO OPERATE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND AS SPECIFIED HEREIN.

1.2 DESIGN AND INSTALLATION REQUIREMENTS
A. PROVIDE SYSTEM APPLICATION, DESIGN, AND INSTALLATION COMPLYING WITH NFPA 17A AND NFPA 96, EXCEPT AS FOLLOWS:
1. SYSTEM COMPONENTS MUST BE LISTED IN UL FIRE PROTECTION DIRECTORY OR APPROVED BY FM APP GUIDE FOR USE WITH WET CHEMICAL FIRE EXTINGUISHING SYSTEMS.
2. THE USE OF GREASE EXTRACTORS DOES NOT ELIMINATE THE REQUIREMENT THAT DUCT SYSTEMS, GREASE REMOVAL DEVICES, AND HOODS BE PROTECTED BY THE WET CHEMICAL EXTINGUISHING SYSTEM.

1.3 SYSTEM CONTROLS
A. ACTUATE EACH SYSTEM BY FUSIBLE LINK AND BY A REMOTE MANUAL ACTUATION STATION CONNECTED TO THE EXTINGUISHING SYSTEM RELEASE MECHANISM BY CABLE. LOCATE REMOTE MANUAL ACTUATION STATIONS ALONG THE PATH OF EGRESS AND AUTOMATICALLY ACTUATE THE [BUILDING] [BASE] FIRE ALARM SYSTEM. PROVIDE SYSTEM CONTROLS THAT AUTOMATICALLY SHUT OFF FUEL FLOW AND ELECTRICAL POWER TO THE PROTECTED APPLIANCES AND OTHER APPLIANCES LOCATED UNDER THE VENTILATING SYSTEM PROTECTED BY THE EXTINGUISHING SYSTEM UPON SYSTEM ACTUATION. USE STAINLESS STEEL CABLES WITH CORNER PULLEYS EMPLOYING STAINLESS STEEL BALL BEARINGS AT ALL CORNERS. ENCLOSE ALL CABLE AND WIRING IN CONDUIT.

1.4 EXISTING BUILDING FIRE ALARM SYSTEM
A. THE EXISTING BUILDING FIRE ALARM CONTROL PANEL WAS MANUFACTURED BY SIEMENS, MODEL DESIGO, AND PRESENTLY HAS CAPACITY FOR SPARE ZONE MODULES. THIS CONTRACTOR SHALL CONNECT THE WET CHEMICAL FIRE EXTINGUISHING SYSTEM TO EXISTING SIEMENS FIRE ALARM CONTROL SYSTEM.

1.5 RELATED WORK
A. SECTION 01 00 00, GENERAL REQUIREMENTS.
B. SECTION 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
C. SECTION 05 50 00, METAL FABRICATIONS.
D. SECTION 11 40 21, FOOD SERVICE EQUIPMENT-UTILITY DISTRIBUTION SYSTEM.
E. SECTION 11 44 00, FOOD COOKING EQUIPMENT.
F. SECTION 13 05 41, SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.
G. SECTION 21 13 13, WET-PIPE SPRINKLER SYSTEMS.
H. SECTION 23 05 11, COMMON WORK RESULTS FOR HVAC.
I. SECTION 23 09 23, DIRECT-DIGITAL CONTROL SYSTEM FOR HVAC
J. SECTION 23 31 00 HVAC DUCTS AND CASING
K. SECTION 23 34 00, HVAC FANS.
L. SECTION 23 38 13, COMMERCIAL KITCHEN HOODS.
M. SECTION 26 05 19, LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES.

1.6 APPLICABLE PUBLICATION
A. THE PUBLICATIONS LISTED BELOW FORM A PART OF THIS SPECIFICATION TO THE EXTENT REFERENCED. THE PUBLICATIONS ARE REFERENCED IN THE TEXT BY THE BASIC DESIGNATION ONLY. WHERE CONFLICTS OCCUR THESE SPECIFICATIONS AND THE VHA STANDARDS WILL GOVERN.
B. AMERICAN WELDING SOCIETY (AWS):
1. D9.1/D9.1M-//2018// SHEET METAL WELDING CODE
C. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA):
1. 13-2022 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
2. 17A-2024 STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS
3. 70-2023 NATIONAL ELECTRICAL CODE (NEC)
4. 96-2024 STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS
D. NATIONAL SANITATION FOUNDATION INTERNATIONAL/AMERICAN NATIONAL STANDARDS INSTITUTE (NSF/ANSI):
1. 2-2021 FOOD EQUIPMENT
2. 4-2020 COMMERCIAL COOKING, RETHERMALIZATION, AND POWERED HOT FOOD HOLDING AND TRANSPORTATION EQUIPMENT
E. SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA):
1. 2001 KITCHEN VENTILATION SYSTEMS AND FOOD SERVICE EQUIPMENT FABRICATION AND INSTALLATION GUIDELINES
F. UNDERWRITERS LABORATORIES, INC. (UL):
1. 300 (R2022) *STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT*
2. 710-2012(R2021) EXHAUST HOODS FOR COMMERCIAL COOKING EQUIPMENT
3. 1254 (R2022) *STANDARD FOR PRE-ENGINEERED DRY CHEMICAL EXTINGUISHING SYSTEM UNITS*
4. ULC/ORD-C1254.6 *FIRE TESTING OF RESTAURANT COOKING AREA FIRE EXTINGUISHING SYSTEM UNITS*
G. *WET CHEMICAL SYSTEM SHALL HAVE THE FOLLOWING LISTINGS AND APPROVALS:*
1. UNDERWRITERS LABORATORIES (UL), PER TEST STANDARD UL 300
2. UNDERWRITERS LABORATORIES, PER STANDARD ULC/ORD-C1254.6

1.7 SUBMITTALS
A. SUBMITTALS, INCLUDING NUMBER OF REQUIRED COPIES, SHALL BE SUBMITTED IN ACCORDANCE WITH SECTION 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
B. INFORMATION AND MATERIAL SUBMITTED UNDER THIS SECTION SHALL BE MARKED "SUBMITTED UNDER SECTION 21 21 03, SECTION TITLE", WITH APPLICABLE PARAGRAPH IDENTIFICATION.
C. MANUFACTURER'S LITERATURE AND DATA INCLUDING: FULL ITEM DESCRIPTION AND OPTIONAL FEATURES AND ACCESSORIES. INCLUDE DIMENSIONS, WEIGHTS, MATERIALS, APPLICATIONS, STANDARD COMPLIANCE, MODEL NUMBERS, SIZE, AND CAPACITY.
1. INCLUDE MANUFACTURER'S ADDRESS AND TELEPHONE NUMBER.
2. INCLUDE CATALOG OR MODEL NUMBERS, AND ILLUSTRATIONS AND DESCRIPTIONS OF VENTILATORS AND ACCESSORIES.
D. PROVIDE INSTALLATION DRAWINGS PREPARED BY A REPRESENTATIVE OF THE MANUFACTURER TO ENSURE COMPLIANCE WITH THE REQUIREMENTS LISTED HEREIN AND WITH ALL MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS. SUBMIT DRAWINGS CONSISTING OF SYSTEM LAYOUT INCLUDING ASSEMBLY AND INSTALLATION DETAILS AND ELECTRICAL CONNECTION DIAGRAMS; PIPING LAYOUT SHOWING PIPE SIZES, LENGTHS, AND SUPPORTS. INCLUDE ANY INFORMATION REQUIRED TO DEMONSTRATE THAT THE SYSTEM HAS BEEN COORDINATED AND WILL FUNCTION AS INTENDED AND SHOW SYSTEM RELATIONSHIP TO ITEMS IT PROTECTS AND CLEARANCES REQUIRED FOR OPERATION AND MAINTENANCE. SUBMIT MANUFACTURER'S CERTIFICATION OF THE DRAWINGS. ALSO INCLUDE CONDUIT, CABLES, MANUAL ACTUATION STATIONS AND FUSIBLE LINKS. INCLUDE DETAIL DRAWINGS FOR THE FOLLOWING ITEMS:
1. STORAGE CONTAINERS AND MOUNTING BRACKETS
2. FUSIBLE LINKS, CABLES, CONDUIT, CORNER PULLEYS, AND LINK MOUNTING
3. FRAMES/BRACKETS
4. RELEASE MECHANISMS
5. VALVES
6. DISCHARGE NOZZLES
7. PIPING COMPONENTS
8. REMOTE MANUAL ACTUATION STATIONS
9. FUEL AND POWER SHUTOFF
10. ALARMS, ALARM DEVICES, ALARM INTERFACE(S), CONTROL PANELS
E. FIELD TEST REPORTS: INDICATE DATES AND TIMES OF TESTS AND CERTIFY TEST RESULTS.
F. OPERATING INSTRUCTIONS: INCLUDE OPERATING INSTRUCTIONS COVERING OPERATION OF ALL COMPONENTS AND MAINTENANCE PROCEDURES COVERING PROPER CLEANING AND NECESSARY LUBRICATION OR ADJUSTMENTS TO CONTROLS.
G. COMPLETE OPERATING AND MAINTENANCE MANUALS INCLUDING WIRING DIAGRAMS, TECHNICAL DATA SHEETS, INFORMATION FOR ORDERING REPLACEABLE PARTS, AND TROUBLESHOOTING GUIDE:
1. INCLUDE COMPLETE LIST INDICATING ALL COMPONENTS OF THE SYSTEMS.
2. INCLUDE COMPLETE DIAGRAMS OF THE INTERNAL WIRING FOR EACH ITEM OF EQUIPMENT.
3. DIAGRAMS SHALL HAVE THEIR TERMINALS IDENTIFIED TO FACILITATE INSTALLATION, OPERATION, AND MAINTENANCE.
H. COMPLETED SYSTEM READINESS CHECKLIST PROVIDED AND COMPLETED BY THE CONTRACTOR, SIGNED BY A QUALIFIED TECHNICIAN, AND DATED ON THE DATE OF COMPLETION, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 23 08 00, COMMISSIONING OF HVAC SYSTEMS.

1.7 SUBMITTALS CON'T
I. CERTIFICATIONS:
1. TOGETHER WITH THE SHOP DRAWING SUBMITTAL, SUBMIT THE TECHNICIAN'S NICET LEVEL III SPECIAL HAZARD CERTIFICATION AS WELL AS CERTIFICATION FROM THE MANUFACTURER THAT THE PROPOSED PERFORMER OF CONTRACT MAINTENANCE IS AN AUTHORIZED REPRESENTATIVE OF THE MAJOR EQUIPMENT MANUFACTURER. INCLUDE IN THE CERTIFICATION THE NAMES AND ADDRESSES OF THE PROPOSED SUPERVISOR OF INSTALLATION AND THE PROPOSED PERFORMER OF CONTRACT MAINTENANCE. ALSO INCLUDE THE NAME AND TITLE OF THE MANUFACTURER'S REPRESENTATIVE WHO MAKES THE CERTIFICATION.
2. TOGETHER WITH THE SHOP DRAWING SUBMITTAL, SUBMIT A CERTIFICATION FROM EITHER THE MANUFACTURER OR THE MANUFACTURER OF EACH COMPONENT THAT THE COMPONENTS BEING FURNISHED ARE COMPATIBLE WITH THE COMMERCIAL KITCHEN HOOD BEING PROVIDED BY OTHER DISCIPLINE CONTRACTOR AND THE EXISTING MEDICAL CENTER'S FIRE ALARM SYSTEM.
3. TOGETHER WITH THE SHOP DRAWING SUBMITTAL, SUBMIT A CERTIFICATION FROM THE MAJOR EQUIPMENT MANUFACTURER THAT THE WIRING AND CONNECTION DIAGRAMS MEET THIS SPECIFICATION, UL, NFPA 17A AND NFPA 72 REQUIREMENTS.
J. SUBMIT TRAINING PLANS AND INSTRUCTOR QUALIFICATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 23 08 00, COMMISSIONING OF HVAC SYSTEMS.

1.8 QUALITY ASSURANCE
A. SUBMIT A STATEMENT DEMONSTRATING SUCCESSFUL COMPLETION OF SIMILAR SERVICES ON AT LEAST FIVE PROJECTS OF SIMILAR SIZE AND SCOPE, AT LEAST 2 WEEKS BEFORE SUBMITTAL OF OTHER ITEMS REQUIRED BY THIS SECTION.
B. COORDINATE EACH SYSTEM WITH THE EQUIPMENT, HOOD, AND EXHAUST DUCTS THAT IT PROTECTS ALONG WITH OTHER CONSTRUCTION IN ORDER TO ELIMINATE ANY INTERFERENCE.
C. THE INSTALLATION TECHNICIAN WILL HAVE BEEN TRAINED BY THE SYSTEM MANUFACTURER FOR SYSTEM INSTALLATION, OPERATION, AND MAINTENANCE. CONCURRENT WITH STATEMENT OF SIMILAR SERVICES, SUBMIT MANUFACTURER'S CERTIFICATION OF INSTALLATION TECHNICIAN.
D. THE DESIGN, SYSTEM LAYOUT, DOCUMENT SUBMITTAL PREPARATION, AND SUPERVISION OF INSTALLATION AND TESTING SHALL BE PROVIDED BY A TECHNICIAN THAT IS CERTIFIED NICET LEVEL III IN SPECIAL HAZARDS OR A REGISTERED FIRE PROTECTION ENGINEER. THE NICET CERTIFIED TECHNICIAN SHALL BE ON SITE FOR THE SUPERVISION AND TESTING OF THE SYSTEM. FACTORY ENGINEERS FROM THE EQUIPMENT MANUFACTURER, THOROUGHLY FAMILIAR AND KNOWLEDGEABLE WITH ALL EQUIPMENT UTILIZED, SHALL PROVIDE ADDITIONAL TECHNICAL SUPPORT AT THE SITE AS REQUIRED BY THE CONTRACT OFFICER REPRESENTATIVE (COR), COTR OR HIS AUTHORIZED REPRESENTATIVE. INSTALLERS SHALL HAVE A MINIMUM OF 2 YEARS' EXPERIENCE INSTALLING FIRE ALARM SYSTEMS.
E. INSTALLER QUALIFICATIONS: THE INSTALLER SHALL BE CERTIFIED ON THE EQUIPMENT BEING INSTALLED ON THE PROJECT WITHIN THE PAST 24 MONTHS AND A COPY OF THIS CERTIFICATION SHALL BE INCLUDED WITH THE SHOP DRAWINGS. TECHNICIANS SHALL BE AVAILABLE FOR A FOUR-HOUR MAXIMUM RESPONSE TIME ON A SERVICE CALL. SUPERVISOR OF THE INSTALLATION, INCLUDING FIELD WIRING, MUST BE NICET LEVEL III OR LEVEL IV CERTIFIED IN SPECIAL HAZARDS.
F. FIRE PROTECTION SYSTEMS: COMPLY WITH NFPA 96 AND NFPA 17A.
G. SEISMIC RESTRAINT:
1. COMPLY WITH REQUIREMENTS IN SECTION 13 05 41, SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.
H. IN-USE SERVICE: AT LEAST ONE FACTORY-AUTHORIZED SERVICE AGENCY FOR EQUIPMENT SHALL BE LOCATED IN THE GEOGRAPHICAL AREA OF THE INSTALLATION AND SHALL HAVE THE ABILITY TO PROVIDE SERVICE WITHIN 24 HOURS AFTER RECEIVING A SERVICE CALL.

1.9 DELIVERY, STORAGE AND HANDLING
A. PROTECT EQUIPMENT DELIVERED AND PLACED IN STORAGE FROM THE WEATHER, HUMIDITY AND TEMPERATURE VARIATIONS, DIRT AND DUST, OR OTHER CONTAMINANTS.

1.10 UNINSPECTED WORK
A. CONTRACTOR SHALL NOT ALLOW OR CAUSE ANY OF HIS WORK TO BE COVERED UP BEFORE IT HAS BEEN DULY INSPECTED, TESTED AND APPROVED BY THE AUTHORIZED INSPECTORS HAVING LEGAL JURISDICTION OVER HIS WORK. SHOULD HE FAIL TO OBSERVE THE ABOVE, HE SHALL UNCOVER HIS WORK AND, AFTER IT HAS BEEN INSPECTED, TESTED AND APPROVED, RECOVER IT AT HIS OWN EXPENSE.

1.11 RECORD DRAWINGS
A. CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE "AS-BUILT" RECORD SET OF DRAWINGS, WHICH SHALL SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS AND THE EXACT "AS-BUILT" LOCATIONS AND SIZES OF THE WORK PROVIDED UNDER THIS SECTION OF THE SPECIFICATIONS. THIS SET SHALL INCLUDE LOCATIONS, DIMENSIONS, DEPTH OF BURIED PIPING, SHUT-OFF VALVES, ETC. ON COMPLETION OF THE WORK, THIS SET OF PRINTS SHALL BE DELIVERED TO THE ARCHITECT.

1.12 FINAL APPROVAL
A. PRIOR TO FINAL ACCEPTANCE OF THE INSTALLATION, THE CONTRACTOR SHALL FURNISH TO THE ARCHITECT "CERTIFICATES OF APPROVAL" SIGNED BY ALL LEGALLY CONSTITUTED AUTHORITIES, STATING THAT THE SYSTEMS, AS INSTALLED, HAVE BEEN INSPECTED AND TESTED AND MEET ALL GOVERNING CODE REQUIREMENTS.

1.13 GUARANTEES
A. CONTRACTOR SHALL GUARANTEE THE AUTOMATIC FIRE SPRINKLER SYSTEMS UNCONDITIONALLY FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE. IF, DURING THIS PERIOD, ANY MATERIALS, EQUIPMENT, OR ANY PART OF THE SYSTEMS FAIL TO FUNCTION PROPERLY, CONTRACTOR SHALL MAKE GOOD THE DEFECTS PROMPTLY AND WITHOUT ANY EXPENSE TO THE OWNER.

PART 2.0 - SYSTEM COMPONENTS AND HARDWARE

2.1 GENERAL
A. THE SYSTEM SHALL BE A PRE-ENGINEERED, FIXED PIPE, AUTOMATIC WET CHEMICAL AGENT FIRE SUPPRESSION SYSTEM FOR PROTECTION OF ALL HAZARD AREAS ASSOCIATED WITH COOKING OPERATIONS, INCLUDING EXHAUST HOODS, PLENUMS, DUCTWORK AND COOKING APPLIANCES.
B. PROVIDE SYSTEM COMPONENTS WHICH ARE THE STANDARD PRODUCTS OF A MANUFACTURER REGULARLY ENGAGED IN THE MANUFACTURING OF PRODUCTS THAT ARE OF SIMILAR MATERIAL, DESIGN AND WORKMANSHIP AND THAT HAVE BEEN IN SATISFACTORY COMMERCIAL OR INDUSTRIAL USE FOR 2 YEARS BEFORE BID OPENING. INCLUDE INSTALLATIONS OF SYSTEMS UNDER SIMILAR CIRCUMSTANCES AND OF SIMILAR SIZE. PROVIDE SYSTEMS THAT ARE SUPPORTED BY A SERVICE ORGANIZATION.
C. SUBMIT MANUFACTURER'S CATALOG DATA. HIGHLIGHT DATA TO SHOW MODEL, SIZE, OPTIONS, ETC., THAT ARE INTENDED FOR CONSIDERATION AND ARE ADEQUATE TO DEMONSTRATE COMPLIANCE WITH CONTRACT REQUIREMENTS.
D. LOCATE IDENTIFICATION SIGNS AT EACH REMOTE MANUAL ACTUATION STATION. PROVIDE SIGNS FABRICATED OF RIGID PLASTIC, RED IN COLOR, WITH ENGRAVED WHITE LETTERS THAT ARE A MINIMUM 6.5 MM 0.25 INCHES IN HEIGHT. ENGRAVE EACH SIGN WITH "FIRE EXTINGUISHING SYSTEM" AND WITH A BRIEF DESCRIPTION OF THE EQUIPMENT PROTECTED.
E. REPLACE THE FIRE ALARM PANEL ZONE IDENTIFICATION LABEL WITH A NEW LABEL OF SIMILAR CONSTRUCTION WHICH INDICATES THE EQUIPMENT IS CONNECTED TO THE ZONE MODULE. DISCHARGE OF THE EXTINGUISHING SYSTEM MUST ACTUATE THE FIRE ALARM CONTROL PANEL IN THE SAME MANNER AS OTHER ACTUATING DEVICES. SUPERVISE EXTINGUISHING SYSTEM WIRING IN THE SAME MANNER AS OTHER DEVICES CONNECTED TO THE FIRE ALARM SYSTEM.
F. FIRE PROTECTION SYSTEMS: WET CHEMICAL WITH WALL-MOUNTED STAINLESS -STEEL CABINET.
1. FIRE PROTECTION SYSTEM TO PROVIDE DUCT, PLENUM, AND SURFACE PROTECTION FOR VENTILATOR AND EQUIPMENT LOCATED BELOW VENTILATOR.
2. SYSTEM INTERWIRED WITH SHUNT TRIP BREAKER AND GAS SOLENOID VALVE OF EQUIPMENT LOCATED BELOW VENTILATOR FOR POWER AND FUEL SHUTOFF DURING SYSTEM ACTUATION.

2.1 WET CHEMICAL FIRE SUPPRESSION SYSTEM
A. THE COMMERCIAL KITCHEN HOOD FIRE SUPPRESSION SYSTEM SHALL BE A PRE-ENGINEERED, LIQUID AGENT, CARTRIDGE OPERATED TYPE ARRANGEMENT. THE SYSTEM SHALL BE A FIXED NOZZLE AGENT DISTRIBUTION NETWORK AND UL LISTED.
B. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM CONSISTING OF BUT NOT LIMITED TO THE FOLLOWING: REGULATED RELEASE MECHANISM; REGULATED ACTUATOR ASSEMBLY: WET CHEMICAL STORAGE TANK; ENCLOSURE FOR RELEASE MECHANISM AND STORAGE TANK; NOZZLES; BLOW-OFF CAPS; DETECTORS; CARTRIDGES; EXTINGUISHING AGENT; FUSIBLE LINKS; PULLEY ELBOWS; REMOTE MANUAL PULL STATION; ELECTRICAL GAS VALVES; PRESSURE SWITCHES; ELECTRICAL SWITCHES; ALARMS AND WARNING LIGHTS.
C. DESCRIPTION: ENGINEERED DISTRIBUTION PIPING DESIGNED FOR AUTOMATIC DETECTION AND RELEASE OR MANUAL RELEASE OF FIRE-SUPPRESSION AGENT BY HOOD OPERATOR. FIRE-SUPPRESSION SYSTEM SHALL BE LISTED AND LABELED FOR COMPLYING WITH NFPA 17A, "WET CHEMICAL EXTINGUISHING SYSTEMS," BY A QUALIFIED TESTING AGENCY ACCEPTABLE TO ENGINEER OF RECORD AND THE VA COR.
1. STEEL PIPE, NPS 2 (DN 50) AND SMALLER: ASTM A 53/A 53M, TYPE S, GRADE A, SCHEDULE 40, PLAIN ENDS.
2. MALLEABLE-IRON THREADED FITTINGS: ASME B16.3, CLASSES 150 AND 300.
3. PIPING, FUSIBLE LINKS AND RELEASE MECHANISM, TANK CONTAINING THE SUPPRESSION AGENT, AND CONTROLS SHALL BE FACTORY INSTALLED. CONTROLS SHALL BE IN STAINLESS-STEEL CONTROL CABINET MOUNTED ON HOOD OR WALL. FURNISH MANUAL PULL STATION FOR WALL MOUNTING. EXPOSED PIPING SHALL BE COVERED WITH CHROME-PLATED ALUMINUM TUBING. EXPOSED FITTINGS SHALL BE CHROME PLATED.
4. LIQUID EXTINGUISHING AGENT: NONCORROSIVE, LOW-PH LIQUID.
5. FURNISH ELECTRIC-OPERATED GAS SHUTOFF VALVE WITH CLEARLY MARKED OPEN AND CLOSED INDICATOR FOR FIELD INSTALLATION.
6. FIRE-SUPPRESSION SYSTEM CONTROLS SHALL BE INTEGRATED WITH CONTROLS FOR FANS, LIGHTS, AND FUEL SUPPLY AND LOCATED IN A SINGLE CABINET FOR EACH GROUP OF HOODS IMMEDIATELY ADJACENT.
7. WIRING SHALL HAVE COLOR-CODED, NUMBERED TERMINAL BLOCKS AND GROUNDING BAR. SPARE TERMINALS FOR FIRE ALARM, OPTIONAL WIRING TO START FAN WITH FIRE ALARM, RED PILOT LIGHT TO INDICATE FAN OPERATION, AND CONTROL SWITCHES SHALL ALL BE FACTORY WIRED IN CONTROL CABINET WITH RELAYS OR STARTERS. INCLUDE SPARE TERMINALS FOR FIRE ALARM AND WIRING.

2.1 WET CHEMICAL FIRE SUPPRESSION SYSTEM CON'T
D. THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION, WITH LOCAL OR REMOTE MANUAL ACTUATION. PROVIDE ALL ACCESSORIES FOR ELECTRICAL NATURAL GAS SHUT-OFF TO COMMERCIAL COOKING APPLIANCES.
E. THE SYSTEM SHALL PROVIDE FIRE SUPPRESSION FOR HOODS, EXHAUST DUCTWORK, EXHAUST PLENUMS, GREASE EXTRACTORS, DEEP FAT FRYERS, GRIDDLES, RANGE TOPS, BROILERS, AND CHAR BROILERS.
F. PROVIDE OWNER'S MANUAL CONTAINING BASIC SYSTEM OPERATING INFORMATION TO THE VA COR. PROVIDE DETAILED TECHNICAL MANUAL TO VA COR TO INCLUDE SYSTEM DESCRIPTION, DESIGN, INSTALLATION, RECHARGING, AND MAINTENANCE PROCEDURES PLUS ACCESSORY INSTALLATION AND RESETTING INSTRUCTIONS.
G. PROVIDE A SPRING LOADED, MECHANICAL/PNEUMATIC TYPE, REGULATED RELEASE MECHANISM TO DELIVER THE EXPELLANT GAS SUPPLY TO ONE AGENT TANKS. INCLUDE FACTORY INSTALLED REGULATOR DEAD SET AT 100 PSI WITH AN INTERNAL RELIEF SET AT 145 PSI.
H. IN THE 'ARMED' POSITION THE MAIN SPRING FORCE TO THE PUNCTURE PIN PISTON SHALL BE 150 LB. THE MECHANISM SHALL HAVE A VISUAL INDICATOR OF THE COCKED OR FIRED CONDITION WITHOUT HAVING TO OPEN THE ENCLOSURE.
I. THE REGULATED RELEASE MECHANISM SHALL FEATURE AUTOMATIC ACTUATION BY A FUSIBLE LINK DETECTION SYSTEM, REMOTE MANUAL ACTUATION BY A MECHANICAL PULL STATION AND LOCAL MANUAL ACTUATION BY A PUSH BUTTON LOCATED ON THE FRONT OF THE RELEASE MECHANISM ENCLOSURE.
J. THE REGULATED RELEASE MECHANISM SHALL CONTAIN AN ACTUATOR ASSEMBLY, REGULATOR, EXPELLANT GAS HOSE AND THREE-GALLON AGENT TANK HOUSED IN A STAINLESS-STEEL ENCLOSURE WITH COVER. THE ENCLOSURE SHALL CONTAIN KNOCKOUTS FOR 1/2" ELECTRICAL CONDUIT CONNECTION. THE COVER SHALL CONTAIN OPENINGS FOR THE PUSH BUTTON AND VISUAL INDICATOR.
K. THE REGULATED RELEASE MECHANISM SHALL BE EQUIPPED WITH FACTORY INSTALLED SOLENOID AND SWITCH COMPATIBLE WITH ELECTRIC GAS LINE AND APPLIANCE SHUT-OFF DEVICES.
L. FURNISH A POTASSIUM CARBONATE AND POTASSIUM ACETATE BASED EXTINGUISHING AGENT DESIGNED FOR FLAME KNOCKDOWN AND FORMULATED FOR SECUREMENT OF GREASE RELATED FIRES. THE EXTINGUISHING AGENT SHALL BE LIQUID AND FURNISHED IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR PROPER USE AND HANDLING.
M. THE LIQUID AGENT TANK SHALL BE RED ENAMEL PAINTED CARBON STEEL WITH THREE-GALLON STORAGE CAPACITY. THE SHELL ASSEMBLY SHALL BE SUITABLE FOR 100 PSI WORKING PRESSURE, 300 PSI TEST PRESSURE AND 600 PSI MINIMUM BURST PRESSURE. THE TANK SHALL INCLUDE AN ADAPTER/TUBE ASSEMBLY. THE ADAPTER SHALL BE 1/4" NPT FEMALE INLET WITH 3/8" NPT MALE OUTLET.
N. EACH DISCHARGE NOZZLE SHALL BE FACTORY TESTED AND SHALL ALSO BE LISTED WITH THE FIRE SUPPRESSION SYSTEM FOR A SPECIFIC APPLICATION. NOZZLE PLACEMENT SHALL BE DETERMINED BY THE SIZE OF THE ORIFICE IN THE NOZZLE TIP.
O. THE NOZZLE TIP SHALL BE BRASS OR CHROME-PLATED BRASS AND SHALL BE STAMPED WITH THE PART NUMBER AND FLOW RATING. THE NOZZLE TIP RETAINER SHALL BE CHROME-PLATED BRASS WITH 50 MESH SCREEN. EACH NOZZLE TIP SHALL BE COVERED BY A PROTECTIVE METAL OR RUBBER BLOW-OFF CAP.
P. THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE EXHAUST SYSTEM.
Q. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/LINKAGE ASSEMBLY. THE DETECTOR BRACKET SHALL BE 16-GAUGE COLD ROLLED STAINLESS STEEL. THE DETECTOR LINKAGE SHALL BE 20-GAUGE COLD ROLLED STAINLESS STEEL.
R. PROVIDE A REMOTE MANUAL PULL STATION IN THE LOCATION INDICATED ON THE DRAWINGS. THE PULL STATION SHALL BE THE GLASS BREAK-ROD TYPE AND SHALL BE CONNECTED TO THE RELEASE MECHANISM TRIP LEVER BY MEANS OF A 1/16" DIAMETER STAINLESS STEEL ROPE INSTALLED IN A 1/2" CONDUIT.
S. THE PULL STATION SHALL BE LOCATED NOT MORE THAN 125 FT. FROM THE RELEASE MECHANISM. THE MOUNTING HEIGHT OF THE PULL STATION SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, NFPA 17A, NFPA 96 AND THE VA FIRE PROTECTION DESIGN MANUAL.
T. PROVIDE UL LISTED MECHANICAL GAS VALVE FOR AUTOMATIC SHUT-OFF OF NATURAL GAS TO COMMERCIAL COOKING APPLIANCES. THE GAS VALVE SHALL BE CONNECTED TO THE RELEASE MECHANISM BY MEANS OF A PNEUMATIC PISTON TYPE AIR CYLINDER.
U. THE GAS VALVE SHALL HAVE RESILIENT SEATING WITH AN ALUMINUM BODY AND STAINLESS-STEEL INTERNAL PARTS. THE NORMALLY OPEN VALVE SHALL BE TWO-POSITION ACTION REQUIRING 4 LB. TO 15 LB. OF PULLING FORCE TO TRIP. THE VALVE SHALL HAVE AN EXTERNAL VISUAL INDICATOR FOR THE CLOSED OR OPEN POSITION.
V. PROVIDE A UL LISTED ELECTRIC SNAP-ACTION SWITCH TO SHUT-OFF THE ELECTRICAL POWER TO THE COMMERCIAL COOKING APPLIANCES LOCATED UNDER THE EXHAUST HOOD. THE SWITCH SHALL BE SINGLE POLE DOUBLE-THROW AND RATED FOR 20 AMPS AT 120 VOLTS. THE SWITCH SHALL BE INTERFACED WITH THE SHUNT-TRIP BEAKER IN THE ELECTRICAL PANEL FOR THE COMMERCIAL COOKING APPLIANCES LOCATED UNDER THE EXHAUST HOOD.
W. PROVIDE REGULATED ACTUATOR ASSEMBLY CONNECTED TO THE CARTRIDGE RECEIVER OUTLET OF THE REGULATED RELEASE MECHANISM TO ASSIST THE SIMULTANEOUS DELIVERY OF EXTINGUISHING AGENT. THE ASSEMBLY SHALL CONSIST OF A REGULATED ACTUATOR DEAD SET AT 100 PSI WITH INTERNAL RELIEF SET AT 145 PSI; REGULATOR; EXPELLANT GAS HOSE; EXTINGUISHING AGENT TANK LOCATED IN A STAINLESS-STEEL ENCLOSURE WITH COVER. PROVIDE KNOCKOUTS IN THE ENCLOSURE FOR INSTALLATION OF EXPELLANT GAS LINE.

2.2 PIPING & MISCELLANEOUS COMPONENTS
A. CYLINDER AND VALVE ASSEMBLY
1. WET CHEMICAL AGENT SHALL BE CONTAINED IN ONE OR MORE STORED PRESSURE DOT/TC RATED STEEL CYLINDER AND VALVE ASSEMBLIES. CYLINDERS REQUIRING AN EXTERNAL SOURCE TO PRESSURIZE THE CYLINDER SHALL NOT BE ACCEPTABLE.
2. SUFFICIENT CYLINDER QUANTITIES AND SIZES TO PROTECT THE ENTIRE HAZARD AREA SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUFACTURER'S MANUAL AND FILLED WITH THE REQUIRED AMOUNT OF WET CHEMICAL AGENT.
3. THE CYLINDER(S) SHALL HAVE A TIN-NICKEL ALLOY PLATED BRASS VALVE, WITH VISUAL PRESSURE GAUGE. AGENT CYLINDERS WITHOUT PRESSURE GAUGES SHALL NOT BE ACCEPTABLE. THE VALVE SHALL CONTAIN A CHECK STEM WHICH IS OPERATED BY THE STROKE OF THE ACTUATING ASSEMBLY. AGENT CYLINDERS UTILIZING A BURST DISC AS A MEANS OF SEALING THE DISCHARGE OUTLET SHALL NOT BE ACCEPTABLE.
4. THE CYLINDER(S) SHALL HAVE A SEPARATELY MOUNTED SHIELD TO PROTECT THE PRESSURE GAUGE.
5. THE CYLINDER AND VALVE ASSEMBLIES SHALL BE FACTORY PRESSURIZED WITH DRY NITROGEN TO 175 PSIG AT 70°F (1207 KPA AT 21°C). THE CYLINDER AND VALVE ASSEMBLIES SHALL BE CAPABLE OF BEING STORED AND OPERATED AT TEMPERATURES FROM 0°F TO 120°F (-18°C TO 49°C).
6. BRACKETING SHALL BE PROVIDED TO MOUNT THE CYLINDERS SECURELY TO THE INTENDED MOUNTING SURFACE.
B. CONTROL EQUIPMENT
1. THE SYSTEM CONTROL EQUIPMENT SHALL BE CAPABLE OF ALL FUNCTIONS ASSOCIATED WITH AUTOMATICALLY AND MANUALLY DISCHARGING THE WET CHEMICAL AGENT FROM ALL CYLINDER AND VALVE ASSEMBLIES, INCLUDING AUTOMATIC SHUTDOWN OF THE FUEL AND HEAT SOURCE(S), AND ELECTRICAL POWER TO ALL PROTECTED AND OTHER REQUIRED AREAS UPON SYSTEM DISCHARGE.
2. THE SYSTEM CONTROL EQUIPMENT SHALL BE EITHER CYLINDER OR WALL MOUNTED, WHICHEVER IS APPLICABLE. A SYSTEM VALVE ACTUATOR SHALL BE SUPPLIED FOR EACH CYLINDER VALVE. ALL MECHANICAL COMPONENTS OF THE CONTROL HEADS SHALL BE ENCLOSED. NO EXPOSED LEVERS, EXCEPT FOR A LOCAL MANUAL ACTUATION HANDLE, SHALL BE PERMITTED.
3. THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC AND MANUAL ACTUATION, EITHER BY ELECTRICAL OR MECHANICAL MEANS. THE CONTROL HEAD SHALL BE EQUIPPED WITH MICROSWITCH CONTACTS FOR AUDIBLE ALARM AND/OR EQUIPMENT SHUTDOWN. ALL CYLINDERS PROTECTING A SINGLE-HAZARD AREA MUST BE CONNECTED FOR SIMULTANEOUS DISCHARGE BY ALL METHODS OF SYSTEM ACTUATION.
4. WHEN AUTOMATIC ELECTRIC ACTUATION IS UTILIZED, THE ELECTRIC SOLENOID SHALL BE ACTUATED BY A TESTED AND LISTED COMPATIBLE CONTROL PANEL. THE DETECTORS SHALL BE FIRE RATE-COMPENSATED THERMOSTAT FIRE DETECTORS. ALL DETECTION AND RELEASING CIRCUITS SHALL BE SUPERVISED AND THE SYSTEM SHALL PROVIDE FOR A SECONDARY POWER SUPPLY CALCULATED, AT MINIMUM, ACCORDING TO NFPA AND UL STANDARDS. THERMOSTATS SHALL BE CHOSEN WITH A RATING SUITABLE TO THEIR EXPECTED NORMAL EXPOSURE TEMPERATURE(S).
5. FOR AUTOMATIC MECHANICAL ACTUATION, THE SYSTEM CONTROL HEAD SHALL BE ACTIVATED BY THERMO-BULB LINK OR FUSIBLE METAL ALLOY LINK FIRE DETECTORS PER THE MANUFACTURER'S WRITTEN IOM MANUAL. THE THERMO-BULB OR FUSIBLE LINK SYSTEM SHALL REQUIRE NO OUTSIDE SOURCE OF POWER FOR OPERATION. DETECTOR LINKS USED FOR MECHANICAL SYSTEM ACTUATION SHALL BE LOCATED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN MANUAL AND ALL APPLICABLE NFPA AND UL STANDARDS. THE HEAT DETECTOR LINKS SHALL BE CHOSEN WITH A RATING SUITABLE FOR THEIR EXPECTED NORMAL EXPOSURE TEMPERATURE(S).
C. PIPE AND FITTINGS
1. PIPE AND FITTINGS MUST BE SCHEDULE 40 STAINLESS STEEL. STAINLESS STEEL TUBING MAY BE USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DO NOT USE GALVANIZED PIPE.
D. DISTRIBUTION NOZZLES
1. NOZZLES SHALL BE LOCATED TO PROTECT THE EXHAUST DUCTS, PLENUMS, AND ALL COOKING APPLIANCES REQUIRING PROTECTION. NOZZLE TYPE(S), QUANTITY, COVERAGE AND LOCATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN IOM MANUAL.
2. ALL NOZZLES SHALL BE EQUIPPED WITH STRAINERS TO PREVENT FOREIGN MATTER IN THE AGENT DISTRIBUTION PIPING OR TUBING FROM CLOGGING THE NOZZLE ORIFICE. ALL NOZZLES SHALL BE EQUIPPED WITH CAPS WITH REPLACEABLE FOIL SEALS TO PREVENT ENTRY OF GREASE AND FOREIGN MATTER INTO THE NOZZLES AND PIPING. THE FOIL SEALS ARE TO BE RUPTURED BY PRESSURE AT SYSTEM DISCHARGE. NOZZLES UTILIZING A SEPARATE BLOW-OFF CAP SHALL NOT BE ACCEPTABLE.
3. ALL NOZZLES SHALL INCORPORATE A RING IDENTIFICATION SYSTEM TO EASILY IDENTIFY NOZZLE TYPE. RINGS ARE TO BE MACHINED INTO THE NOZZLE BODY BY THE MANUFACTURER.

2.2 PIPING & MISCELLANEOUS COMPONENTS CON'T
E. DISTRIBUTION
1. THE WET CHEMICAL AGENT DISTRIBUTION SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN IOM MANUAL.
2. THE DISTRIBUTION SYSTEM SHALL CONSIST OF SCHEDULE 40 BLACK STEEL PIPE OR STAINLESS STEEL TUBING. CHROME PLATED PIPING IS PERMISSIBLE. GALVANIZED PIPING SHALL NOT BE USED. PIPE THREAD COMPOUND OR TAPE SHALL NOT BE USED.
3. ALL FITTINGS FOR SCHEDULE 40 PIPE SHALL BE STANDARD WEIGHT STEEL, MALLEABLE IRON, DUCTILE IRON OR CAST IRON. GALVANIZED FITTINGS SHALL NOT BE USED.
4. FITTINGS FOR STAINLESS STEEL TUBING SHALL BE COMPRESSION OR FLARE TYPE. BENDING OF TUBING IS PERMISSIBLE. ALL BENDING RADII SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S IOM MANUAL USING COMMERCIALLY AVAILABLE BENDING JIGS.
F. WET CHEMICAL
1. THE WET CHEMICAL MUST NOT HAVE AN ADVERSE EFFECT ON STAINLESS STEEL DURING EXPOSURE PERIODS OF UP TO 24 HOURS.

2.3 HANGERS & BRACING
A. GENERAL
1. HANGERS AND BRACING SHALL MEET OR EXCEED THE REQUIREMENTS SPECIFIED IN NFPA 13. WHERE JURISDICTIONAL REQUIREMENTS EXCEED THOSE OF NFPA, AND THE VA FIRE PROTECTION DESIGN MANUAL REQUIREMENTS SHALL TAKE PRECEDENT.

PART 3.0 - EXECUTION

3.1 EXAMINATION
A. VISIT JOBSITE PRIOR TO EQUIPMENT INSTALLATION TO VERIFY ALL VENTILATION OUTLETS, UTILITY AND ELECTRICAL SERVICE CONNECTIONS, AND INSTRUCTION TO ALL PARTIES WITH REGARD TO SHOP DRAWINGS. STARTING WORK MEANS ACCEPTANCE OF OTHER IN-PLACE WORK.
B. BEFORE INSTALLATION, INSPECT BUILDING DIMENSIONS AND SERVICE ROUGH-IN, INCLUDING MEANS OF ACCESS, FOR CONDITIONS AFFECTING DELIVERY AND INSTALLATION OF HOOD.
C. EXAMINE SUBSTRATES AND CONDITIONS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK.
D. EXAMINE ROUGHING-IN FOR PIPING SYSTEMS TO VERIFY ACTUAL LOCATIONS OF PIPING CONNECTIONS BEFORE EQUIPMENT INSTALLATION.
E. BEFORE WORK IS INSTALLED, ARCHITECT/ENGINEER RESERVES RIGHT TO MAKE MODIFICATIONS TO LOCATION OF FANS, EXHAUSTERS, DUCTS, OR OTHER EQUIPMENT TO PROVIDE SATISFACTORY COORDINATION BETWEEN CONTRACTORS.
F. PROVIDE INSERTS AND ANCHORS BUILT INTO OTHER WORK FOR SUPPORT OF THIS WORK.
1. ENSURE THESE ITEMS ARE INSTALLED IN THEIR PROPER LOCATION.
2. INCLUDE FASTENING DEVICES TO ATTACH WORK.
3. USE PROPER ANCHORING DEVICES FOR MATERIALS ENCOUNTERED AND USAGE EXPECTED.
G. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 METHOD OF INSTALLATION
A. INSTALL WET CHEMICAL FIRE SUPPRESSION SYSTEM AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS USING WORKERS SKILLED AND FAMILIAR WITH ITEMS AND INSTALLATION SPECIFICATIONS AND PROCEDURES. SHOP ASSEMBLE WORK WHERE POSSIBLE, AND TEST AT SHOP.
B. SEQUENCE INSTALLATION AND ERECTION TO ENSURE MECHANICAL AND ELECTRICAL CONNECTIONS ARE EFFECTED IN ORDERLY AND EXPEDITIOUS MANNER. DO CUTTING, FITTING, AND PATCHING, COORDINATING WORK FULLY WITH OTHER CRAFTS INVOLVED. CENTER ALL HOOD OPENINGS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

3.3 INSTALLATION/FABRICATION
A. GENERAL
1. THE CONTRACTOR SHALL FURNISH THE SERVICES OF AN EXPERIENCED SUPERINTENDENT WHO SHALL BE QUALIFIED IN ALL PHASES OF THE WORK OF THIS SECTION AND WHO SHALL CONSTANTLY BE IN CHARGE OF THE WORK OF THIS SECTION.
2. QUALIFIED AND TRAINED PERSONNEL, EXPERIENCED WITH THE PRODUCTS INVOLVED, AND THE RECOMMENDED METHODS OF PREPARATION, SHALL PREPARE ALL PIPING AND FITTINGS. ALL CUTS, THREADS AND GROOVES SHALL BE MADE ACCORDING TO APPLICABLE CODES, STANDARDS AND ACCEPTED GOOD PRACTICES. PIPE SHALL BE FREE OF DAMAGE, FLAWS AND BURRS. THREADS AND GROOVES SHALL NOT BE EXCESSIVELY SHALLOW OR DEEP. FITTINGS SHALL BE MADE ONTO PIPE NO TIGHTER THAN NECESSARY. CONTRACTOR SHALL REPLACE CRACKED OR BROKEN FITTINGS, WITHOUT EXCEPTION. EXCESS THREAD SEALANTS AND OILS SHALL BE REMOVED BEFORE SHIPMENT TO JOB SITE.
3. THE SPRINKLER CONTRACTOR SHALL BE HELD RESPONSIBLE DURING THE INSTALLATION AND TESTING PERIODS OF THE SPRINKLER SYSTEM FOR ANY DAMAGE TO THE WORK OF OTHERS, TO THE BUILDING, ITS CONTENTS, ETC., CAUSED BY LEAKS IN ANY WET CHEMICAL, PIPES, FITTINGS, ETC. THE CONTRACTOR SHALL PAY FOR NECESSARY REPLACEMENTS OR REPAIRS TO ITEMS DAMAGED BY SUCH LEAKAGE.
4. THE CONTRACTOR SHALL OBTAIN DETAILED INFORMATION FROM THE MATERIAL AND EQUIPMENT MANUFACTURERS AS TO THE PROPER METHOD OF INSTALLATION AND SHALL EXECUTE ACCORDINGLY.
5. LOCATE AND INSTALL EQUIPMENT SUCH THAT IT MEETS THE REQUIREMENTS OF NFPA, VA COR, VA FIRE OFFICIAL, THE REGULATORY AGENCY AND THE LOCAL FIRE DEPARTMENT. IDENTIFICATION TAGS SHALL BE PROVIDED AS REQUIRED.
6. COORDINATE WET CHEMICAL EQUIPMENT SYSTEM COMPONENTS, LAYOUT AND INSTALLATION WITH ADJACENT WORK, INCLUDING LUMINAIRE'S, HVAC EQUIPMENT, KITCHEN HOOD EQUIPMENT, PLUMBING COMPONENTS.
7. COMMERCIAL KITCHEN HOOD BEING PROVIDED BY OTHERS SHALL BE PROVIDED WITH CLEARANCES AND ACCESS FOR MAINTAINING FIRE-SUPPRESSION SYSTEMS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND REQUIREMENTS OF THE VA COR, ENGINEER OF RECORD AND THE VA FIRE OFFICIAL.
8. PERFORM INSTALLATION IN ACCORDANCE WITH SYSTEM MANUFACTURER'S INSTRUCTIONS. PROVIDE DUCTWORK ACCESS DOORS WHERE INDICATED AND AT ANY ITEMS REQUIRING SERVICE AND INSPECTION, INCLUDING NOZZLES AND FUSIBLE LINKS. PROVIDE DUCTWORK ACCESS DOORS IN ACCORDANCE WITH SECTION 23 31 00 HVAC DUCTS AND CASING

3.4 PRELIMINARY TESTING
A. SUBMIT PROPOSED TEST PROCEDURES FOR PRELIMINARY TEST, AT LEAST 2 WEEKS BEFORE THE START OF RELATED TESTING. FRAME SYSTEM DIAGRAMS THAT SHOW SYSTEM LAYOUT AND TYPED CONDENSED NORMAL AND EMERGENCY OPERATING PROCEDURES, METHODS FOR CHECKING THE SYSTEM FOR NORMAL, SAFE OPERATION, AND PROCEDURES FOR MANUAL ACTUATION UNDER GLASS OR LAMINATED PLASTIC. AFTER APPROVAL, POST THESE ITEMS WHERE DIRECTED. AFTER INSTALLATION HAS BEEN COMPLETED, ACTUATE EACH SYSTEM BY BOTH FUSIBLE LINK AND BY REMOTE ACTUATION STATION TO DEMONSTRATE PROPER FUNCTION OF ALL COMPONENTS, INCLUDING ALARMS AND FUEL FLOW AND POWER SHUT OFF. ACTUATE BY FUSIBLE LINK AS APPROVED BY THE SYSTEM MANUFACTURER. DISCHARGE TEST CONTAINERS, PRESSURIZED WITH EITHER NITROGEN OR AIR TO NORMAL SYSTEM OPERATING PRESSURE AND OF THE SAME SIZE AS ACTUAL OPERATING CONTAINERS INTO SYSTEM. THE SEALS MUST RELEASE AS DURING NORMAL ACTUATION. AFTER EACH DISCHARGE, REMOVE AND DISASSEMBLE THE NOZZLES , AND CLEAN THE STRAINERS. INSPECT AND CLEAN SYSTEM PIPING AS NECESSARY. VERIFY ALL FUNCTIONS OF SYSTEM OPERATION, INCLUDING SWITCHES, SHUTDOWN OF FUEL AND POWER TO APPLIANCES PROTECTED BY THE SYSTEM OR SERVED BY THE SAME VENTILATION SYSTEM, UNIFORM DELIVERY OF AIR OR NITROGEN, AND ACTIVATION OF ALARMS. REPLACE NOZZLE SEALS/COVERS AFTER THE PRELIMINARY TESTS ARE COMPLETE. IN THE EVENT PORTIONS OF THE TESTS ARE UNSUCCESSFUL, MAKE REPAIRS AND REPEAT THE ENTIRE TEST UNTIL SUCCESSFUL. SUBMIT TEST REPORT FOR THE PRELIMINARY TESTS IN BOOKLET FORM, UPON COMPLETION OF TESTING. DOCUMENT TEST RESULTS INCLUDING REPAIRS AND ADJUSTMENTS MADE, AND FINAL TEST RESULTS.

3.5 FIELD TESTING
A. GENERAL: FOLLOWING INSTALLATION, TEST VENTILATORS FOR COMPLIANCE WITH SPECIFIED REQUIREMENTS AND THOSE OF AUTHORITIES HAVING JURISDICTION. PERFORM TESTING AFTER AIR-HANDLING SYSTEMS HAVE BEEN BALANCED AND ADJUSTED.
B. SMOKE TEST:
1. TEST CONDITIONS:
a. PERFORM TESTS WITH COOKING EQUIPMENT SERVED BY VENTILATOR TURNED OFF.
b. PERFORM TESTS WITH SUPPLY AND EXHAUST FANS SERVING THE FOOD SERVICE KITCHEN AREA TURNED ON.
2. TEST PROCEDURE: MOVE A SMOKE BOMB AROUND THE PERIMETER OF COOKING EQUIPMENT AT THE TOP SURFACE.
3. TEST-PERFORMANCE REQUIREMENTS: NO VISIBLE SMOKE SHALL ESCAPE FROM THE VENTILATOR CANOPY INTO THE ROOM.
C. DEMAND VENTILATOR CONTROL TEST:
1. TEST CONDITIONS:
a. A. PERFORM TESTS WITH COOKING EQUIPMENT SERVED BY EXHAUST VENTILATOR TURNED OFF.
b. B. PERFORM TESTS WITH AIR-HANDLING UNITS SERVING FOOD SERVICE KITCHEN TURNED ON.
2. TEST PROCEDURE: TURN ON EQUIPMENT AND MEASURE SPEED OF EXHAUST FAN(S) AS EQUIPMENT HEATS UP. MOVE A SMOKE BOMB AROUND THE PERIMETER OF THE COOKING EQUIPMENT AT THE TOP SURFACE AND CONTINUE TO MEASURE SPEED OF EXHAUST FAN(S).
3. TEST-PERFORMANCE REQUIREMENTS: SPEED OF FAN(S) SHOULD INCREASE/DECREASE WITH THE SEVERITY OF THE HEAT OR SMOKE.
D. WET FIRE EXTINGUISHING SYSTEM: TEST SYSTEM TO VERIFY THAT EQUIPMENT OPERATION COMPLIES WITH NFPA 96 AND NFPA 17A.

PART 3.0 - EXECUTION

3.6 FINAL SYSTEM ACCEPTANCE TESTING
A. SUBMIT PROPOSED TEST PROCEDURES FOR FINAL ACCEPTANCE TEST, AT LEAST 2 WEEKS BEFORE THE START OF RELATED TESTING AND PROPOSED TEST SCHEDULE FOR ACCEPTANCE TEST, AT LEAST 2 WEEKS BEFORE THE START OF RELATED TESTING. ACTUATE SYSTEM BY BOTH FUSIBLE LINK AND REMOTE MANUAL ACTUATION STATION AND VERIFY ALL SYSTEM FUNCTIONS AS DESCRIBED IN PARAGRAPH PRELIMINARY TESTS [USING TEST CONTAINERS SPECIFIED FOR PRELIMINARY TESTS] [EXCEPT USE ACTUAL SYSTEM CONTAINERS FULLY CHARGED WITH WET CHEMICAL]. PROVIDE EACH NOZZLE WITH A PLASTIC CONTAINER, HOSE, AND HOSE FITTING TO CAPTURE ALL WET CHEMICAL DISCHARGED. ALSO, PERFORM ALL TESTS OR CHECKS RECOMMENDED BY THE MANUFACTURER. IN THE EVENT PORTIONS OF THE TESTS ARE UNSUCCESSFUL, MAKE REPAIRS AND REPEAT THE ENTIRE TEST UNTIL SUCCESSFUL. REPLACE NOZZLE SEALS/COVERS AFTER THE FINAL ACCEPTANCE TESTS ARE COMPLETE. RETURN THE SYSTEM TO NORMAL OPERATING CONDITION AFTER THE COMPLETION OF TESTING, RECHARGE EXPENDED WET CHEMICAL CONTAINERS, AND VERIFY LEAK TIGHT. CLEAN EXTINGUISHING SYSTEM AND EQUIPMENT AND DUCT PROTECTED BY THE EXTINGUISHING AFTER COMPLETION OF TESTING. REPAIR DAMAGE. RECORD THE WEIGHT OF EACH STORAGE CONTAINER BEFORE FINAL ACCEPTANCE TEST AND AFTER TEST HAS BEEN COMPLETED AND CONTAINERS RECHARGED. SUBMIT TEST REPORT FOR THE FINAL ACCEPTANCE TESTS IN BOOKLET FORM, UPON COMPLETION OF TESTING. DOCUMENT TEST RESULTS INCLUDING REPAIRS AND ADJUSTMENTS MADE, AND FINAL TEST RESULTS. RECORD THE WEIGHT OF EACH STORAGE CONTAINER BEFORE FINAL ACCEPTANCE TEST AND AFTER TEST HAS BEEN COMPLETED AND CONTAINERS RECHARGED.
B. BEFORE ASKING FOR FINAL APPROVAL OF THE WET CHEMICAL FIRE SUPPRESSION SYSTEM BY THE VA COR, VA FIRE OFFICIAL AND THE ENGINEER OF RECORD, THE CONTRACTOR SHALL FURNISH TO THE OWNER, THE ARCHITECT AND THE ENGINEER A WRITTEN STATEMENT THAT THE WORK HAS BEEN COMPLETED AND TESTED IN ACCORDANCE TO THE REQUIREMENTS SHOWN ON THIS DRAWING AND THE PROJECT'S BOOK SPECIFICATION REQUIREMENTS.
C. NOTIFY THE VA COR, VA FIRE OFFICIAL AND ENGINEER OF RECORD AND THE ARCHITECT OF THE TIME AND DATE OF THE TESTING THAT SHALL BE PERFORMED.
D. WET FIRE EXTINGUISHING SYSTEM: TEST SYSTEM TO VERIFY THAT EQUIPMENT OPERATION COMPLIES WITH NFPA 96 AND NFPA 17A.
E. COMPONENTS PROVIDED UNDER THIS SECTION OF THE SPECIFICATION WILL BE TESTED AS PART OF A LARGER SYSTEM.
F. REPAIR OR REPLACE PIPING SYSTEM COMPONENTS AS REQUIRED TO ELIMINATE LEAKAGE ACCORDING TO NFPA STANDARDS AND RETEST AS SPECIFIED TO DEMONSTRATE COMPLIANCE. TESTING SHALL NOT BE CONSIDERED COMPLETE UNTIL A COMPLETED TEST CERTIFICATE IS PROVIDED TO THE VA COR, VA FIRE OFFICIAL AND ENGINEER OF RECORD.
G. TESTS SHALL BE WITNESSED BY THE VA COR, VA FIRE OFFICIAL AND THE ENGINEER OF RECORD.
H. THE CONTRACTOR SHALL COMPLETE AND SIGN THE WET CHEMICAL ACCEPTANCE TEST REPORT USING THE FORM IN NFPA 17A, FIGURE 6.4.10.3. THE CONTRACTOR HAS THE OPTION OF USING ALTERNATE COMPANY FORMS PROVIDED THAT THE CONTRACTOR SUBMITS "BLANK FORM" TO THE ENGINEER FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO ITS USE.

3.7 CLEAN-UP
A. AT COMPLETION OF THE INSTALLATION, CLEAN AND ADJUST EQUIPMENT AS REQUIRED TO PRODUCE READY-FOR-USE CONDITION.
B. WHERE STAINLESS-STEEL SURFACES ARE DAMAGED DURING INSTALLATION PROCEDURES, REPAIR FINISHES TO MATCH ADJOINING UNDAMAGED SURFACES.

3.8 INSTRUCTION
A. THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE SHALL PROVIDE INSTRUCTION AND TRAINING TO THE VA AS FOLLOWS:
A. SIX 1-HOUR SESSIONS TO ENGINEERING STAFF, SECURITY POLICE AND CENTRAL ATTENDANT PERSONNEL FOR SIMPLE OPERATION OF THE SYSTEM. TWO SESSIONS AT THE START OF INSTALLATION, 2 SESSIONS AT THE COMPLETION OF INSTALLATION AND 2 SESSIONS 3 MONTHS AFTER THE COMPLETION OF INSTALLATION.
B. FOUR 2-HOUR SESSIONS TO ENGINEERING STAFF FOR DETAILED OPERATION OF THE SYSTEM. TWO SESSIONS AT THE COMPLETION OF INSTALLATION AND 2 SESSIONS 3 MONTHS AFTER THE COMPLETION OF INSTALLATION.
C. FOUR 2-HOUR SESSIONS TO ELECTRICAL TECHNICIANS FOR MAINTAINING, PROGRAMMING, MODIFYING, AND REPAIRING THE SYSTEM AT THE COMPLETION OF INSTALLATION AND ONE 8-HOUR REFRESHER SESSION 3 MONTHS AFTER THE COMPLETION OF INSTALLATION.
B. THE CONTRACTOR AND/OR THE SYSTEMS MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE A TYPEWRITTEN "SEQUENCE OF OPERATION" INCLUDING A TROUBLE SHOOTING GUIDE OF THE ENTIRE SYSTEM FOR SUBMITTAL TO THE VA. THE SEQUENCE OF OPERATION WILL BE SHOWN AND PROVIDED IN A LOOSE-LEAF BINDER. WHEN READING THE SEQUENCE OF OPERATION, THE READER WILL BE ABLE TO QUICKLY AND EASILY DETERMINE WHAT OUTPUT WILL OCCUR UPON ACTIVATION OF THE SYSTEM.
C. FURNISH THE SERVICES OF A COMPETENT INSTRUCTOR FOR INSTRUCTING PERSONNEL IN THE OPERATION OF THE WET CHEMICAL FIRE SUPPRESSION SYSTEM.
D. THE TRAINING SHALL NOT TAKE PLACE UNTIL WET CHEMICAL FIRE SUPPRESSION SYSTEM HAS BEEN INSTALLED AND CERTIFIED OPERATIONAL BY THE LICENSED NICET SPECIAL HAZARD TECHNICIAN. THE CERTIFYING TECHNICIAN SHALL BE PRESENT THROUGHOUT THE TRAINING SESSIONS.
E. CONTRACTOR SHALL PROVIDE A SITE-SPECIFIC LIST OF SERVICE REPAIR PART NUMBERS FOR SYSTEM COMPONENTS. STANDARD MANUFACTURER 'S SERVICE REPAIR PARTS LIST IS NOT ACCEPTABLE. THE EXACT PARTS USED ON SITE SHALL BE LISTED WITH THE APPROPRIATE SERVICE REPAIR PART NUMBER. THE SERVICE PART NUMBER SHALL BE THE ONLY PART NUMBER NEEDED FOR CORRECT REPLACEMENT OF THE SERVICE PART. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TRAIN OWNER'S MAINTENANCE PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN THE WET CHEMICAL FIRE SUPPRESSION SYSTEM, APPLIANCES, AND DEVICES. THE TRAINING SHALL INCLUDE "HANDS-ON" DEMONSTRATION OF THE OPERATION OF ALL SYSTEM COMPONENTS AS PART OF THIS SCOPE OF WORK.

Revisions:	Date:

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Office of Construction and Facilities Management
U.S. Department of Veterans Affairs

Drawing Title: FIRE SUPPRESSION - WET CHEMICAL FIRE SUPPRESSION REQUIREMENTS
Approved:
Phase: BID DOCUMENTS
FULLY SPRINKLERED
Project Title: CONSTRUCT TDVV CLC 12 BEDS
Location: 180 MARTIN DR, CARROLLTON, GA 30117
Issue Date: 12/16/2024
Checked: GAT
Drawn: JRC
Project Number: 508-349
Building Number:
Drawing Number: FX006

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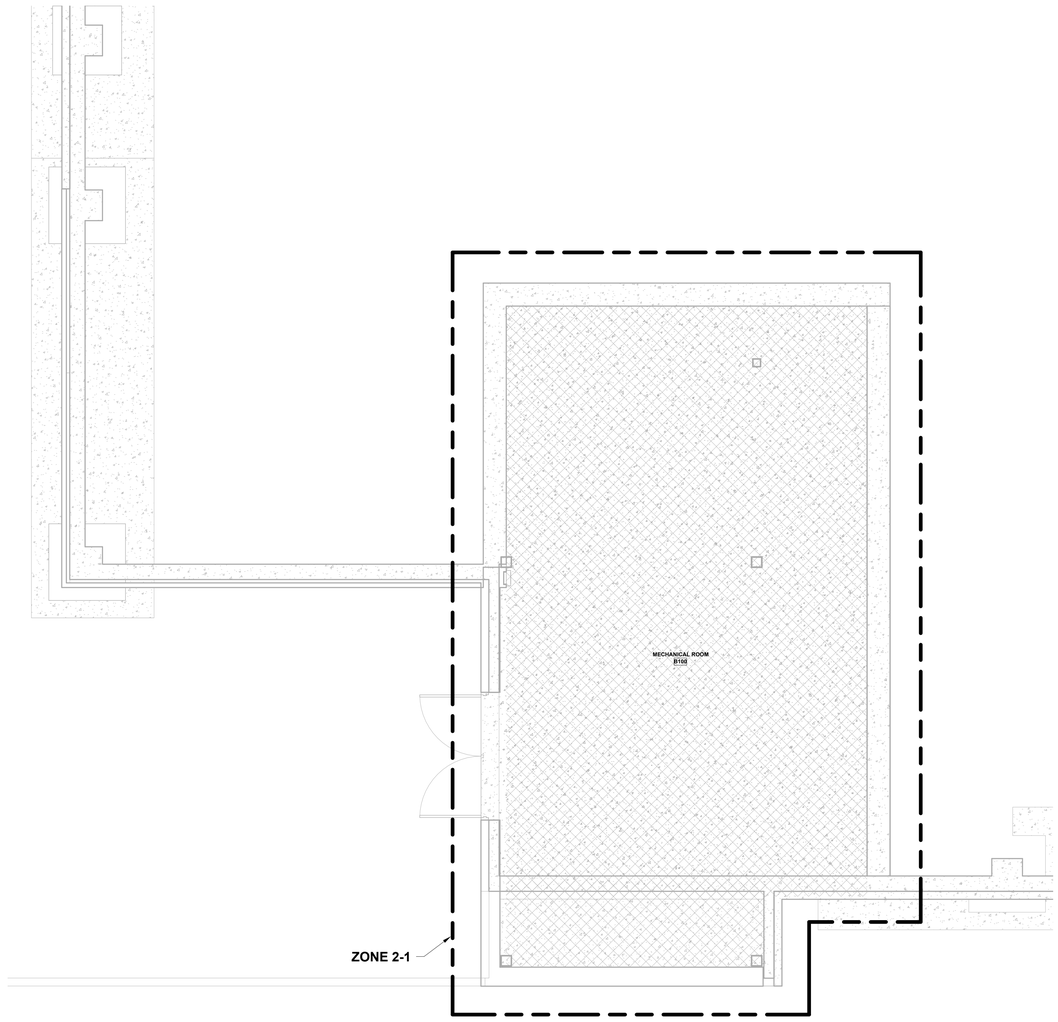


1 FIRE SUPPRESSION - BASEMENT FLOOR - DESIGN CRITERIA
1/4" = 1'-0"

NEW WORK GENERAL NOTES

A. REFER TO DRAWING FX001 FOR FIRE SUPPRESSION GENERAL NOTES, SYMBOLS AND LEGENDS.

B. REFER TO DRAWING FX002, & FX003 FOR FIRE SUPPRESSION DETAIL REQUIREMENTS.

C. REFER TO DRAWING FX004 FOR IMPAIRMENT AND FIRE WATCH REQUIREMENTS.

D. REFER TO DRAWING FX005 FOR UL PIPING DETAIL REQUIREMENTS.

E. THE DRAWING SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE INDICATED IS INTENDED FOR "GENERAL REFERENCE ONLY".

F. A MAXIMUM OF TWO SPRINKLERS SHALL BE SUPPLIED FROM ONE (1) ONE-INCH OUTLET ON THE BRANCH LINES. ADDITIONAL SPRINKLERS SHALL BE PROVIDED FROM CROSS MAINS.

G. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE ROUTING OF SPRINKLER LINES TO ENSURE PIPING DOES NOT PASS OVER ELECTRICAL PANELS.

H. ALL SPRINKLER HEADS SHALL BE PROVIDED WITH ARM OVERS.

I. SPRINKLER HEADS SHALL BE LOCATED A MINIMUM OF ONE(1) FOOT DISTANCE FROM ANY LIGHT FIXTURE USING ORDINARY TEMPERATURE SPRINKLER HEADS.

J. THE AUTOMATIC SPRINKLER CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, RISES AND DROPS IN PIPING, AND AUXILIARY DRAINS AS REQUIRED BY THE VA FIRE PROTECTION DESIGN MANUAL AND NFPA, WHETHER SHOWN ON PLANS OR NOT.

K. INDIVIDUAL BRANCH LINES TO A SINGLE SPRINKLER SHALL COMPLY WITH NFPA 13, SECTION 28.2.1.2 WHICH STATES, "PIPE SIZES SHALL BE NO LESS THAN 1-INCH (25 MM) NOMINAL FOR BLACK OR GALVANIZED STEEL PIPING AND 3/4-INCH (20 MM) NOMINAL FOR COPPER TUBING OR BRASS, STAINLESS STEEL OR NONMETALLIC PIPING LISTED FOR FIRE SPRINKLER SERVICE UNLESS PERMITTED BY SECTIONS 30.4 AND 30.6 OF NFPA 13."

L. ALL NEW EXPOSED PIPING MUST BE PAINTED IN COMPLIANCE WITH PROJECT SPECIFICATION 09 91 00, PAINTING.

M. ANY PIPE OR DUCTWORK INSULATION THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH NEW INSULATION TO MATCH ADJACENT INSULATION AND COVERING AT THE FIRE PROTECTION CONTRACTOR'S EXPENSE.

N. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO ELIMINATE CONFLICT WITH OTHER TRADES. ANY WORK INSTALLED BY THIS CONTRACTOR THAT RESULTS IN CONFLICT, DUE TO LACK OF COORDINATION BETWEEN TRADES, SHALL BE CHANGED AS DIRECTED BY THE ARCHITECT/ENGINEER WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.

O. ALL SHUTDOWNS SHALL BE COORDINATED AND APPROVED THROUGH THE VA COR AND WILL REQUIRE A MINIMUM OF 10 DAYS ADVANCE NOTICE THIS TIME LENGTH MAY BE LONGER OR SHORTER FOR SOME SHUT DOWNS AND SHALL BE AT THE OWNER'S DISCRETION. DRAINING AND REFILLING OF THE EXISTING SYSTEM IS A RESPONSIBILITY OF THE OWNER'S REPRESENTATIVE.

P. THE INFORMATION GIVEN HEREIN IS AS EXACT AS COULD BE SECURED FOR BIDDING PURPOSES AND ITS ACCURACY IS NOT GUARANTEED. THE AUTOMATIC SPRINKLER CONTRACTOR IS RESPONSIBLE FOR EXAMINING BOTH THE EXISTING AND NEW JOB CONDITIONS AND VERIFYING ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, PIPE SIZES, ETC., BEFORE STARTING THE DEMOLITION OR NEW WORK.

Q. THE DRAWING SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE INDICATED IS INTENDED FOR "GENERAL REFERENCE ONLY".

R. REUSE OF ANY SPRINKLER HEAD THAT IS REMOVED FROM SERVICE IS NOT ACCEPTABLE; REFER TO NFPA 25, SECTION 5.4.1.1.

FIRE PROTECTION DESIGN CRITERIA

ORDINARY HAZARD GROUP I - LABORATORIES, MECHANICAL ROOMS, DINING ROOMS, CANOPIES, JANITORIAL CLOSETS, ELECTRIC ROOMS AND GENERAL STORAGE UP TO 8 FEET HIGH

DESIGN DENSITY:	0.15GPM/SQ.FT
HYDRAULICALLY MOST DEMANDING AREA:	1,500SQ.FT
SPRINKLER ORIFICE:	1/2INCH
MAXIMUM COVERAGE/SPRINKLER HEAD:	130SQ.FT
HOSE STREAM ALLOWANCE INSIDE/OUTSIDE:	250GPM
K FACTOR:	5.6GPM/(PSI) ½
TEMPERATURE RATING CLASSIFICATION:	ORDINARY (135 DEG F / 57 DEG C)
MAXIMUM CEILING TEMPERATURE:	100 DEG F / 38 DEG C

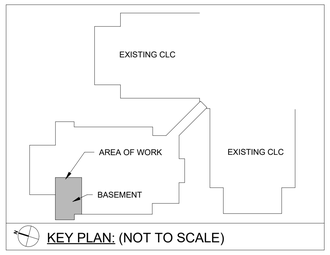
WORK AREAS OUTSIDE OF A RATED CONSTRUCTION BARRIER

CONTRACTOR SHALL BE REQUIRED TO PROVIDE/INSTALL THE REPLACEMENT OF CEILING TILES AT THE END OF EACH SHIFT FOR WORK AREAS OUTSIDE A RATED CONSTRUCTION BARRIER. IF THE TILES CAN NOT BE REPLACED THE SPRINKLER SYSTEM MAY BE CONSIDERED OUT OF SERVICE IN THESE AREAS AND A 1-HOUR FIRE RATED SEPARATION WILL BE REQUIRED BETWEEN THE CONSTRUCTION AREA AND THE OCCUPIED PORTION OF THE BUILDING.

REFERENCE NFPA 1, PARAGRAPH 13.3.3.3

WALL RATING LEGEND

- 2 HR FIRE RATED
- 1 HR FIRE RATED
- 1 HR SMOKE BARRIER
- SMOKE PARTITION



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE

4 0 2 4 8 16

(in Feet)
1 inch = 4 ft.

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE SUPPRESSION - BASEMENT FLOOR - DESIGN CRITERIA

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: GAT | Drawn: JRC

Project Number: 508-349

Building Number:

Drawing Number: FX100

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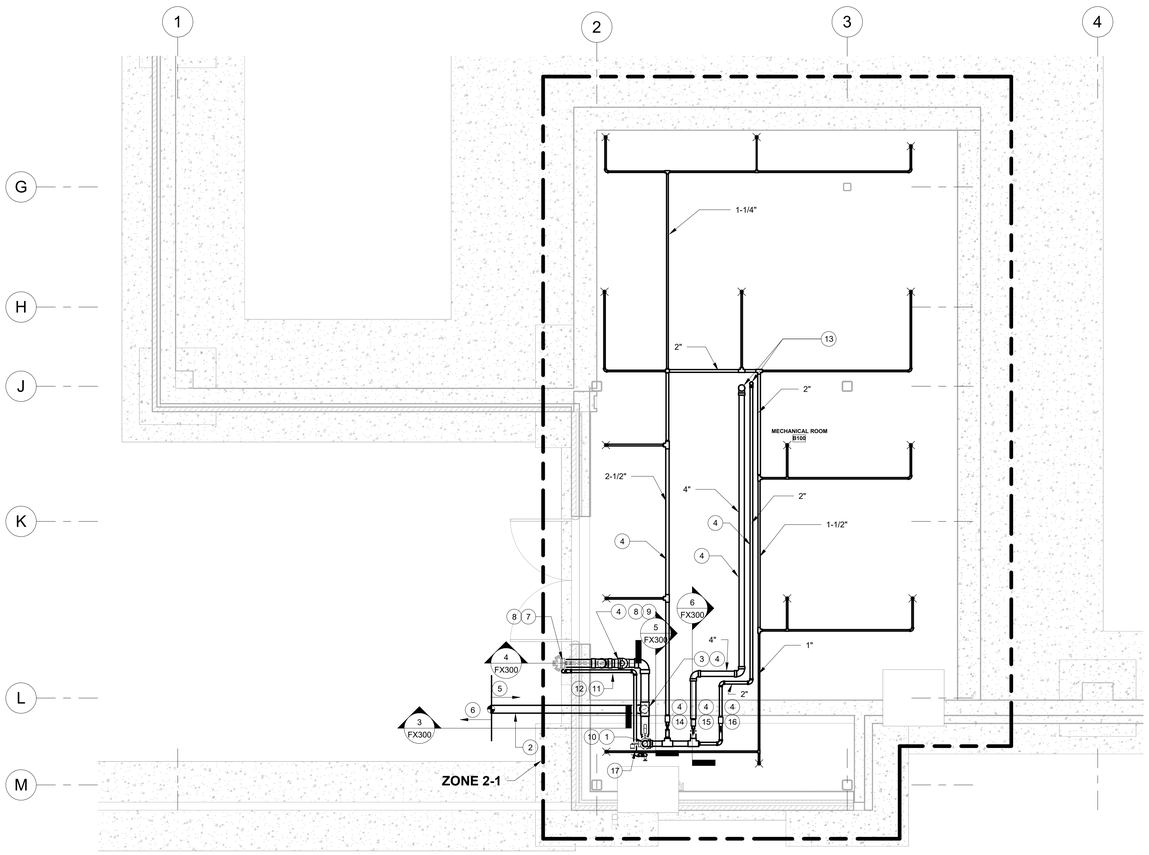


1 FIRE SUPPRESSION - BASEMENT FLOOR - PIPING PLAN
1/4" = 1'-0"

NEW WORK KEYED NOTES

1. PROVIDE WET-PIPE COMPLETELY PRE-ASSEMBLED AND TESTED FIRE PROTECTION VALVE ASSEMBLY WITH WATER SUPPLY SHUTOFF VALVE, WET PIPE FIRE SPRINKLER VALVE ASSEMBLY COMPLETE, ALARM LINE PRESSURE SWITCHES, SUPERVISORY PRESSURE SWITCHES, A VALVE POSITION SUPERVISORY SWITCH, AND AIR PRESSURE GAUGES. AN ADDITIONAL SHUT OFF SHALL BE PROVIDED FOR FLEXIBILITY DURING TRIP TESTS.
2. INTERFACE WITH ONE (1) UNDERGROUND SIX (6) INCH MAINS FOR THE INTERFACE TO THE BUILDING'S WET PIPE FIRE SUPPRESSION SYSTEM.
3. PROVIDE THRUST BLOCKS RESTRAINTS MEETING NFPA 24, SECTION 10.6 FOR INTERFACES FROM THE 6-INCH CIVIL MAIN TO THE REDUCED PRESSURE PRINCIPLE BACKFLOW DEVICE SUPPLY TWO -OS&Y VALVES WITH TAMPER SWITCHES BEING PROVIDED BY THIS CONTRACTOR AND THE 6 -INCH CIVIL SUPPLY TO THE FIRE BASEMENT MECHANICAL EQUIPMENT ROOM.
4. PROVIDE PIPE STANDS/PIPE HANGERS FOR ABOVEGROUND FIRE PROTECTION PIPING WITHIN THE BASEMENT MECHANICAL EQUIPMENT ROOM.
5. BY FIRE PROTECTION CONTRACTOR
6. BY CIVIL CONTRACTOR.
7. FURNISH AND INSTALL A 6-INCH FORWARD FLOW TEST CONNECTION DOWNSTREAM OF THE BACKFLOW PREVENTION VALVES TO ENABLE MINIMUM FLOW RATE OF SYSTEM DEMAND, INCLUDING HOSE STREAM ALLOWANCE MEETING NFPA 13, SECTION 16.14.5.1 WHERE THE ARRANGEMENT SHALL BE SERVICEABLE WITHOUT REQUIRING TO MODIFY THE SYSTEM TO PERFORM THE TEST.
8. PROVIDE A WALL TYPE FIRE DEPARTMENT STORZ CONNECTION SHALL BE LOCATED BETWEEN 18-INCHES AND 46-INCHES AFF. COORDINATE ACTUAL ELEVATION WITH VA FIRE MARSHAL AND LOCAL FIRE DEPARTMENT. .
9. PROVIDE CHECK VALVE IN THE FIRE DEPARTMENT CONNECTION PIPING, WITH AN AUTOMATIC DRIP VALVE IN COMPLIANCE WITH NFPA 13, SECTION 16.12.7. AUTOMATIC DRIP VALVE SHALL BE PROVIDED WITH AN APPROVED AIR GAP OF NOT LESS THAN 4-INCHES IN INVERT ELEVATION BETWEEN THE END OF THE DISCHARGE PIPING AND THE EXTERIOR GRADE LEVEL. THE DISCHARGE PIPING SHALL NOT BE DIRECTLY CONNECTION TO AN EXTERIOR STORM OR WATER DRAINAGE SYSTEM.
10. PROVIDE ALARM TEST CONNECTIONS NOT LESS THAN 2-INCH IN DIAMETER GIVING FLOW EQUAL TO ONE SPRINKLER OF A TYPE HAVING THE SMALLEST K-FACTOR INSTALLED ON THIS PARTICULAR SYSTEM SHALL BE PROVIDED TO EACH WATER FLOW TEST CONNECTION.
11. THE WET-PIPE INSPECTOR TEST DRAIN SHALL DISCHARGE TO THE BUILDING EXTERIOR TO FACILITATE TESTING. DRAIN PIPING SHALL BE 2-INCH MINIMUM TO ACCOMMODATE DISCHARGE FROM FULL FLOW TESTS AT A MAXIMUM PRESSURE. EXTERIOR DRAINS SHALL BE DESIGNED TO PREVENT FLOODING OR DAMAGE TO LANDSCAPE AND TO PREVENT WETTING OF WALKWAYS.
12. NOT LESS THAN 4 FEET OF EXPOSED DRAIN PIPE IN HEATED SPACE BEYOND VALVE WHEN PIPE EXTENDS OUTSIDE WITH A 45° SMOOTH BORE CORROSION RESISTANT OUTLET GIVING FLOW EQUIVALENT TO ONE SPRINKLER HEAD.
13. FOUR (4) INCH AND TWO (2) INCH WET PIPE RISERS UP TO LEVEL 01.
14. 2-1/2 INCH FLOOR CONTROL VALVE ASSEMBLY NO 2-1 WITH DRAIN FOR BASEMENT SPRINKLER SYSTEM. FLOOR CONTROL VALVE ASSEMBLY 1-1/2 INCH DRAIN SHALL BE ROUTED TO THE EXTERIOR WITH A 45° SMOOTH BORE CORROSION RESISTANT OUTLET.
15. 4 INCH FLOOR CONTROL VALVE ASSEMBLY NO 1-1 WITH DRAIN FOR FIRST FLOOR SPRINKLER SYSTEM. FLOOR CONTROL VALVE ASSEMBLY 2 INCH DRAIN SHALL BE ROUTED TO THE EXTERIOR WITH A 45° SMOOTH BORE CORROSION RESISTANT OUTLET.
16. 2 INCH FLOOR CONTROL VALVE ASSEMBLY NO 1-2 WITH DRAIN FOR FIRST FLOOR SPRINKLER SYSTEM. FLOOR CONTROL VALVE ASSEMBLY 1-1/2 INCH DRAIN SHALL BE ROUTED TO THE EXTERIOR WITH A 45° SMOOTH BORE CORROSION RESISTANT OUTLET.

NEW WORK GENERAL NOTES

A. REFER TO DRAWING FX001 FOR FIRE SUPPRESSION GENERAL NOTES, SYMBOLS AND LEGENDS.

B. REFER TO DRAWING FX002 & FX003 FOR FIRE SUPPRESSION DETAIL REQUIREMENTS.

C. REFER TO DRAWING FX005 FOR IMPAIRMENT AND FIRE WATCH REQUIREMENTS.

D. REFER TO DRAWING FX006 FOR UL PIPING DETAIL REQUIREMENTS.

E. THE DRAWING SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE INDICATED IS INTENDED FOR "GENERAL REFERENCE ONLY".

F. SPRINKLER PROTECTION SHALL BE PROVIDED UNDER AND ABOVE DUCTWORK/EQUIPMENT WHERE FIXED OBSTRUCTION IS OVER FOUR (4) FEET WIDE AND ABOVE FINISHED FLOOR MEETING THE REQUIREMENTS OF NFPA 13, SECTION 9.5.5.3.1.

G. FIRE SPRINKLER CONTRACTOR SHALL COORDINATE WORK WITH ALL TRADES PRIOR TO INSTALLATION. ANY WORK INSTALLED BY THIS CONTRACTOR THAT RESULTS IN CONFLICT, DUE TO LACK OF COORDINATION BETWEEN TRADES, SHALL BE CHANGED AS DIRECTED BY THE ARCHITECT/ENGINEER WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.

H. ALL MATERIALS USED SHALL BE UL LISTED AND FM APPROVED FOR USE IN FIRE PROTECTION SYSTEMS.

I. CONTRACTOR SHALL SUBMIT FIRE PROTECTION PLANS, HYDRAULIC CALCULATIONS AND MATERIAL DATA "CUT SHEETS" ELECTRONICALLY TO THE ENGINEER FOR APPROVAL PRIOR INSTALLING ANY FIRE PROTECTION PIPING.

J. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE ROUTING OF SPRINKLER LINES TO ENSURE PIPING DOES NOT PASS OVER ELECTRICAL PANELS.

K. INDIVIDUAL BRANCH LINES TO A SINGLE SPRINKLER SHALL COMPLY WITH NFPA 13, SECTION 28.2.1.2 WHICH STATES, "PIPE SIZES SHALL BE NO LESS THAN 1-INCH (25 MM) NOMINAL FOR BLACK OR GALVANIZED STEEL PIPING AND 3/4-INCH (20 MM) NOMINAL FOR COPPER TUBING OR BRASS, STAINLESS STEEL OR NONMETALLIC PIPING LISTED FOR FIRE SPRINKLER SERVICE UNLESS PERMITTED BY SECTIONS 30.4 AND 30.6 OF NFPA 13."

L. ALL NEW EXPOSED PIPING MUST BE PAINTED IN COMPLIANCE WITH PROJECT SPECIFICATION 09 91 00, PAINTING.

M. ANY PIPE OR DUCTWORK INSULATION THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH NEW INSULATION TO MATCH ADJACENT INSULATION AND COVERING AT THE FIRE PROTECTION CONTRACTOR'S EXPENSE.

N. THE INFORMATION GIVEN HEREIN IS AS EXACT AS COULD BE SECURED FOR BIDDING PURPOSES AND ITS ACCURACY IS NOT GUARANTEED. THE AUTOMATIC SPRINKLER CONTRACTOR IS RESPONSIBLE FOR EXAMINING BOTH THE EXISTING AND NEW JOB CONDITIONS AND VERIFYING ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, PIPE SIZES, ETC., BEFORE STARTING THE DEMOLITION OR NEW WORK.

O. ENSURE PIPING DOES NOT PASS OVER ELECTRICAL PANELS.

P. REUSE OF ANY SPRINKLER HEAD THAT IS REMOVED FROM SERVICE IS NOT ACCEPTABLE; REFER TO NFPA 25, SECTION 5.4.1.1.

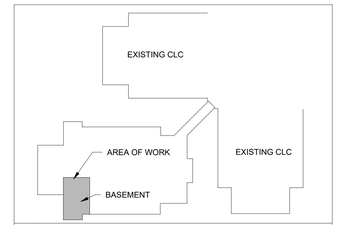
WORK AREAS OUTSIDE OF A RATED CONSTRUCTION BARRIER

CONTRACTOR SHALL BE REQUIRED TO PROVIDE/INSTALL THE REPLACEMENT OF CEILING TILES AT THE END OF EACH SHIFT FOR WORK AREAS OUTSIDE A RATED CONSTRUCTION BARRIER. IF THE TILES CAN NOT BE REPLACED THE SPRINKLER SYSTEM MAY BE CONSIDERED OUT OF SERVICE IN THESE AREAS AND A 1-HOUR FIRE RATED SEPARATION WILL BE REQUIRED BETWEEN THE CONSTRUCTION AREA AND THE OCCUPIED PORTION OF THE BUILDING.

REFERENCE NFPA 1, PARAGRAPH 13.3.3.3

WALL RATING LEGEND

- 2 HR FIRE RATED
- 1 HR FIRE RATED
- 1 HR SMOKE BARRIER
- SMOKE PARTITION



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE

4 0 2 4 8 16

(in Feet)

1 inch = 4 ft.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON | CHARLOTTE ENGINEERS

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STAMP John Callahan

GEORGIA REGISTERED No. PE031384 PROFESSIONAL ENGINEER JOHN RICHARD CALLAHAN JR.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE SUPPRESSION - BASEMENT FLOOR - PIPING PLAN

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: GAT | Drawn: JRC

Project Number: 508-349

Building Number:

Drawing Number: FX101

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC\4792 - CE Central Model.rvt

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VA FORM 08 - 6231

FIRE PROTECTION DESIGN CRITERIA

LIGHT HAZARD - PATIENT CARE, OFFICES, CUSTOMARY ACCESS AREAS, RESTROOMS AND TELECOMMUNICATION ROOMS

DESIGN DENSITY:	0.10GPM/SQ.FT
HYDRAULICALLY MOST DEMANDING AREA:	1,500SQ.FT
SPRINKLER ORIFICE:	1/2INCH
MAXIMUM COVERAGE/SPRINKLER HEAD:	225SQ.FT
HOSE STREAM ALLOWANCE INSIDE/OUTSIDE:	100GPM
K FACTOR:	5.6GPM/(PSI) ½
TEMPERATURE RATING CLASSIFICATION:	ORDINARY (135 DEG F / 57 DEG C)
MAXIMUM CEILING TEMPERATURE:	

ORDINARY HAZARD GROUP I - LABORATORIES, MECHANICAL ROOMS, DINING ROOMS, CANOPIES, JANITORIAL CLOSETS, ELECTRIC ROOMS AND GENERAL STORAGE UP TO 8 FEET HIGH

DESIGN DENSITY:	0.15GPM/SQ.FT
HYDRAULICALLY MOST DEMANDING AREA:	1,500SQ.FT
SPRINKLER ORIFICE:	1/2INCH
MAXIMUM COVERAGE/SPRINKLER HEAD:	130SQ.FT
HOSE STREAM ALLOWANCE INSIDE/OUTSIDE:	250GPM
K FACTOR:	5.6GPM/(PSI) ½
TEMPERATURE RATING CLASSIFICATION:	ORDINARY (135 DEG F / 57 DEG C)
MAXIMUM CEILING TEMPERATURE:	100 DEG F / 38 DEG C

ORDINARY HAZARD GROUP II - STORAGE ROOMS, TRASH ROOMS, CLEAN AND SOILED LINEN ROOMS, PHARMACY, AND ASSOCIATED STORAGE, LAUNDRY, KITCHENS, KITCHEN STORAGE AREAS, FILE STORAGE OCCUPANCY OR PORTIONS OR OTHER OCCUPANCIES WHERE THE QUANTITY AND COMBUSTIBILITY OF CONTENTS ARE MODERATE RATES TO HIGH, STOCKPILES OF CONTENTS WITH MODERATE RATES OF HEAT RELEASE DO NOT EXCEED 12 FEET AND STOCKPILES OF CONTENTS WITH HIGH RATES OF HEAT RELEASE DO NOT EXCEED 8 FT.

DESIGN DENSITY:	0.20GPM/SQ.FT
HYDRAULICALLY MOST DEMANDING AREA:	1,500SQ.FT
SPRINKLER ORIFICE:	1/2INCH
MAXIMUM COVERAGE/SPRINKLER HEAD:	130SQ.FT
HOSE STREAM ALLOWANCE INSIDE/OUTSIDE:	250GPM
K FACTOR:	5.6GPM/(PSI) ½
TEMPERATURE RATING CLASSIFICATION:	ORDINARY (135 DEG F / 57 DEG C)
MAXIMUM CEILING TEMPERATURE:	100 DEG F / 38 DEG C

NEW WORK GENERAL NOTES

A. REFER TO DRAWING FX001 FOR FIRE SUPPRESSION GENERAL NOTES, SYMBOLS AND LEGENDS.

B. REFER TO DRAWING FX002 & FX003 FOR FIRE SUPPRESSION DETAIL REQUIREMENTS.

C. REFER TO DRAWING FX005 FOR IMPAIRMENT AND FIRE WATCH REQUIREMENTS.

D. REFER TO DRAWING FX006 FOR UL PIPING DETAIL REQUIREMENTS.

E. THE DRAWING SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE INDICATED IS INTENDED FOR "GENERAL REFERENCE ONLY".

F. SPRINKLER PROTECTION SHALL BE PROVIDED UNDER AND ABOVE DUCTWORK/EQUIPMENT WHERE FIXED OBSTRUCTION IS OVER FOUR (4) FEET WIDE AND ABOVE FINISHED FLOOR MEETING THE REQUIREMENTS OF NFPA 13, SECTION 9.5.5.3.1.

G. FIRE SPRINKLER CONTRACTOR SHALL COORDINATE WORK WITH ALL TRADES PRIOR TO INSTALLATION. ANY WORK INSTALLED BY THIS CONTRACTOR THAT RESULTS IN CONFLICT, DUE TO LACK OF COORDINATION BETWEEN TRADES, SHALL BE CHANGED AS DIRECTED BY THE ARCHITECT/ENGINEER WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.

H. ALL MATERIALS USED SHALL BE UL LISTED AND FM APPROVED FOR USE IN FIRE PROTECTION SYSTEMS.

I. CONTRACTOR SHALL SUBMIT FIRE PROTECTION PLANS, HYDRAULIC CALCULATIONS AND MATERIAL DATA "CUT SHEETS" ELECTRONICALLY TO THE ENGINEER FOR APPROVAL PRIOR INSTALLING ANY FIRE PROTECTION PIPING.

J. MAXIMUM OF TWO SPRINKLERS SHALL BE SUPPLIED FROM ONE (1) ONE-INCH OUTLET ON EXISTING BRANCH LINES. ADDITIONAL SPRINKLERS SHALL BE FROM CROSS MAINS.

K. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE ROUTING OF SPRINKLER LINES TO ENSURE PIPING DOES NOT PASS OVER ELECTRICAL PANELS.

L. INDIVIDUAL BRANCH LINES TO A SINGLE SPRINKLER SHALL COMPLY WITH NFPA 13, SECTION 28.2.1.2 WHICH STATES, "PIPE SIZES SHALL BE NO LESS THAN 1-INCH (25 MM) NOMINAL FOR BLACK OR GALVANIZED STEEL PIPING AND 3/4-INCH (20 MM) NOMINAL FOR COPPER TUBING OR BRASS, STAINLESS STEEL OR NONMETALLIC PIPING LISTED FOR FIRE SPRINKLER SERVICE UNLESS PERMITTED BY SECTIONS 30.4 AND 30.6 OF NFPA 13."

M. ALL NEW EXPOSED PIPING MUST BE PAINTED IN COMPLIANCE WITH PROJECT SPECIFICATION 09 91 00, PAINTING.

N. ANY PIPE OR DUCTWORK INSULATION THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH NEW INSULATION TO MATCH ADJACENT INSULATION AND COVERING AT THE FIRE PROTECTION CONTRACTOR'S EXPENSE.

O. THE INFORMATION GIVEN HEREIN IS AS EXACT AS COULD BE SECURED FOR BIDDING PURPOSES AND ITS ACCURACY IS NOT GUARANTEED. THE AUTOMATIC SPRINKLER CONTRACTOR IS RESPONSIBLE FOR EXAMINING BOTH THE EXISTING AND NEW JOB CONDITIONS AND VERIFYING ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, PIPE SIZES, ETC., BEFORE STARTING THE DEMOLITION OR NEW WORK.

P. ENSURE PIPING DOES NOT PASS OVER ELECTRICAL PANELS.

Q. REUSE OF ANY SPRINKLER HEAD THAT IS REMOVED FROM SERVICE IS NOT ACCEPTABLE; REFER TO NFPA 25, SECTION 5.4.1.1.

NEW WORK KEYED NOTES

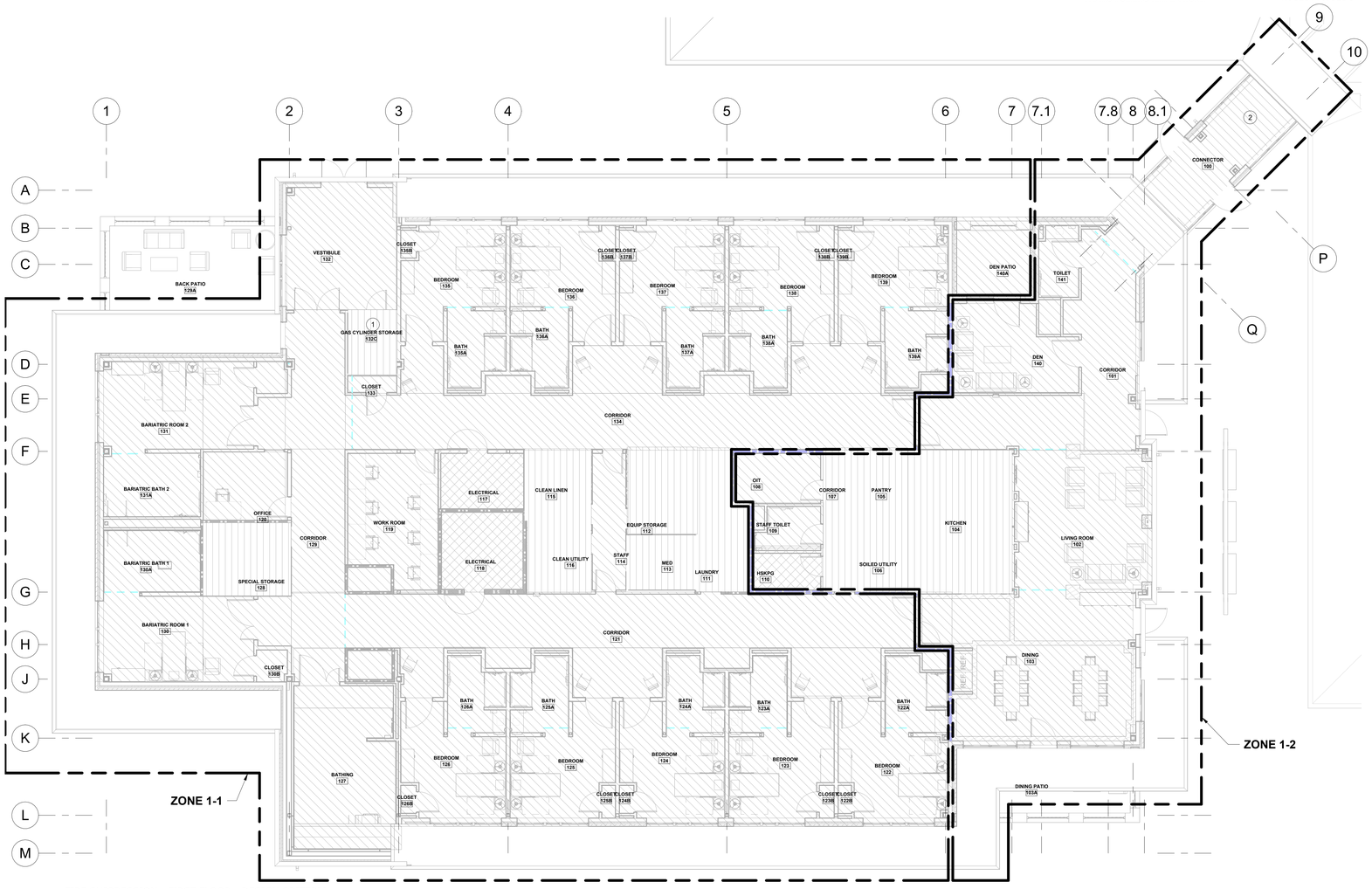
1. GAS CYLINDER STORAGE, ROOM 132C WHERE NON FLAMMABLE GAS CYLINDERS SHALL BE STORED OR USED SHALL BE PROTECTED WITH A SPRINKLER SYSTEM DESIGNED TO BE NOT LESS THAN ORDINARY HAZARD GROUP 2 OF NFPA 13, SECTION 19.3.3.1 [NFPA 55, SECTION 6.11.2.1].

2. THE CONNECTOR, ROOM 100 IS LIGHT HAZARD DESIGN CRITERIA.

WORK AREAS OUTSIDE OF A RATED CONSTRUCTION BARRIER

CONTRACTOR SHALL BE REQUIRED TO PROVIDE/INSTALL THE REPLACEMENT OF CEILING TILES AT THE END OF EACH SHIFT FOR WORK AREAS OUTSIDE A RATED CONSTRUCTION BARRIER. IF THE TILES CAN NOT BE REPLACED THE SPRINKLER SYSTEM MAY BE CONSIDERED OUT OF SERVICE IN THESE AREAS AND A 1-HOUR FIRE RATED SEPARATION WILL BE REQUIRED BETWEEN THE CONSTRUCTION AREA AND THE OCCUPIED PORTION OF THE BUILDING.

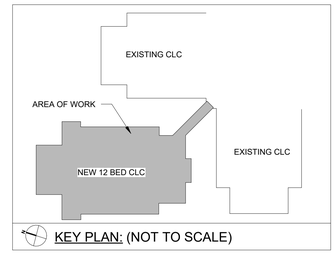
REFERENCE NFPA 1, PARAGRAPH 13.3.3.3



1 FIRE SUPPRESSION - FIRST FLOOR - DESIGN CRITERIA
1/8" = 1'-0"

WALL RATING LEGEND

- 2 HR FIRE RATED
- 1 HR FIRE RATED
- 1 HR SMOKE BARRIER
- SMOKE PARTITION



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE

8 0 4 8 16 32

(in Feet)

1 inch = 8 ft.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON

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STAMP John Callahan

GEORGIA REGISTERED PROFESSIONAL ENGINEERS No. PE031384 JOHN RICHARD CALLAHAN III

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE SUPPRESSION - FIRST FLOOR - DESIGN CRITERIA

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: GAT | Drawn: JRC

Project Number: 508-349

Building Number:

Drawing Number: FX110

Autodesk Docs://22.9003 - VA Atlanta Tinka Davis CLC\4792 - CE Central Model.rvt

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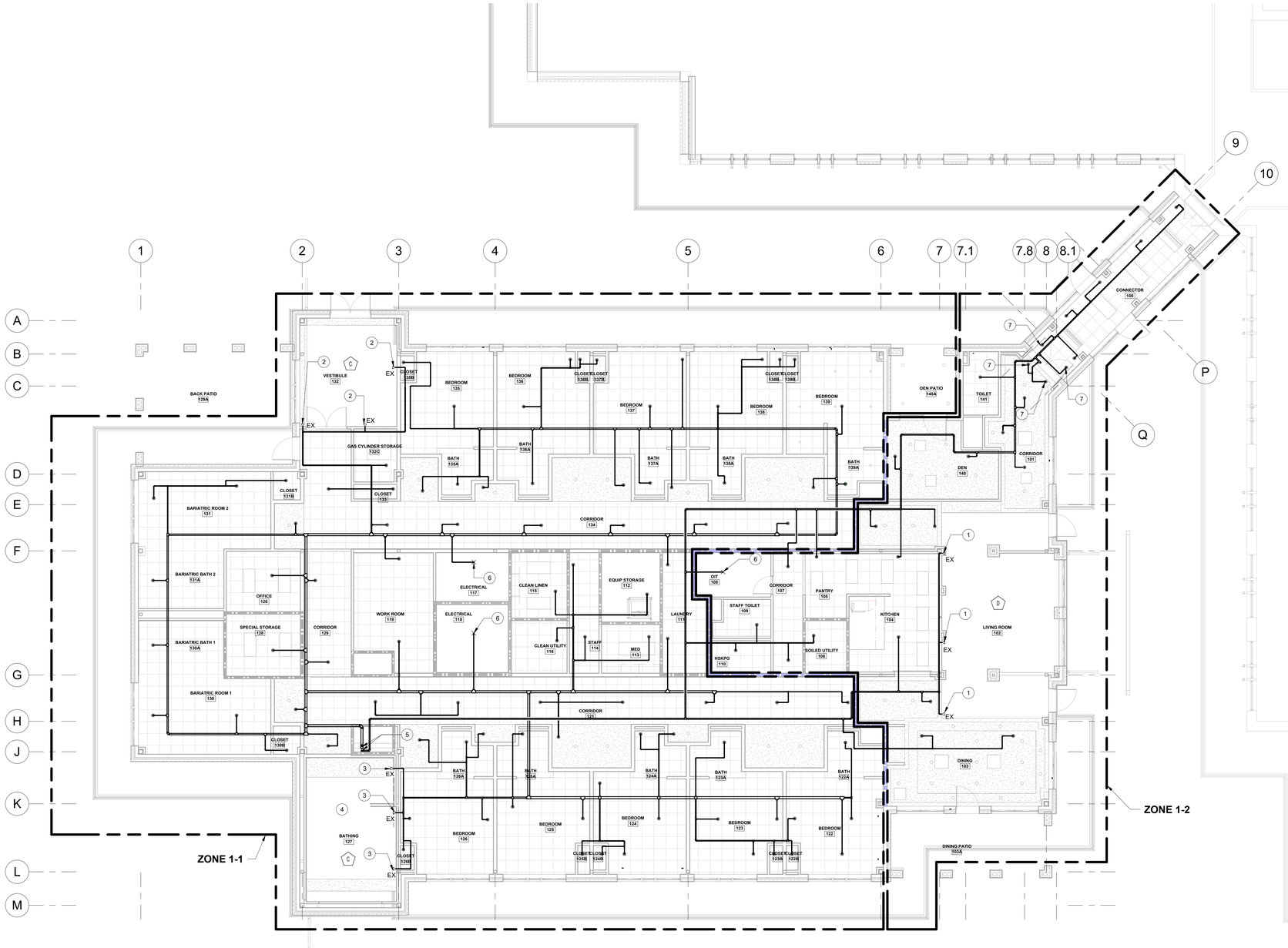


1 FIRE SUPPRESSION - FIRST FLOOR - PIPING PLAN
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO DRAWING FX001 FOR FIRE SUPPRESSION GENERAL NOTES, SYMBOLS AND LEGENDS.

B. REFER TO DRAWING FX002 & FX003 FOR FIRE SUPPRESSION DETAIL REQUIREMENTS.

C. REFER TO DRAWING FX004 FOR IMPAIRMENT AND FIRE WATCH REQUIREMENTS.

D. REFER TO DRAWING FX005 FOR UL PIPING AND MISCELLANEOUS DETAIL REQUIREMENTS.

E. THE DRAWING SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE INDICATED IS INTENDED FOR "GENERAL REFERENCE ONLY".

F. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE ROUTING OF SPRINKLER LINES TO ENSURE PIPING DOES NOT PASS OVER ELECTRICAL PANELS.

G. ALL SPRINKLER HEADS SHALL BE PROVIDED WITH ONE (1) INCH ARM OVERS UNLESS OTHERWISE NOTED.

H. EXACT LOCATIONS AND QUANTITIES OF WATER FLOW AND TAMPER SWITCHES SHALL BE VERIFIED BY THE CONTRACTOR. ALL FIRE SPRINKLER SYSTEMS SHALL HAVE THESE DEVICES; CONTRACTOR PRICING SHALL INCLUDE CONNECTION OF THESE DEVICES WHETHER SHOWN OR LOCATED ON THE DESIGN DOCUMENT.

I. AUTOMATIC SPRINKLER SYSTEM SHALL BE SUPERVISED AND INTERFACE WITH NEW FIRE ALARM SYSTEM. SPRINKLER AND FIRE ALARM ZONES MUST ALIGN MEETING NFPA 99, SECTION 15.8.1.3. NO SPRINKLER DISTRIBUTION LINES MAY BE FED FROM ADJOINING ZONE(S).

J. WHERE SPRINKLER PIPING IS INSTALLED BELOW DUCTWORK, PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE OR FROM THE DUCTWORK SUPPORTS; PROVIDED SUCH SUPPORTS ARE CAPABLE OF HANDLING THE LOAD OF THE LOAD OF THE DUCTWORK AND THE LOADS SPECIFIED IN NFPA 13, SECTION 9.1.1.3.1.3 ARE MET. IF THE CONTRACTOR DECIDES TO SUPPORT THE FIRE PROTECTION PIPING FROM THE DUCTWORK SUPPORTS; THE FIRE PROTECTION CONTRACTOR SHALL SUBMIT CALCULATIONS SIGNED AND SEALED BY A FIRE PROTECTION ENGINEER VALIDATING COMPLIANCE WITH NFPA 13.

K. UNLESS OTHERWISE INDICATED ON THE FLOOR PLANS OR KEYED NOTE THE FIRE SUPPRESSION PIPING IS A WET PIPE SYSTEM.

L. ANY NEW PIPE OR DUCTWORK INSULATION THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH NEW INSULATION TO MATCH ADJACENT INSULATION AND COVERING AT THE FIRE PROTECTION CONTRACTOR'S EXPENSE.

M. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO ELIMINATE CONFLICT WITH OTHER TRADES. ANY WORK INSTALLED BY THIS CONTRACTOR THAT RESULTS IN CONFLICT, DUE TO LACK OF COORDINATION BETWEEN TRADES, SHALL BE CHANGED AS DIRECTED BY THE ARCHITECT/ENGINEER WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.

N. THE INFORMATION GIVEN HEREIN IS AS EXACT AS COULD BE SECURED FOR BIDDING PURPOSES AND ITS ACCURACY IS NOT GUARANTEED. THE AUTOMATIC SPRINKLER CONTRACTOR IS RESPONSIBLE FOR EXAMINING BOTH THE EXISTING AND NEW JOB CONDITIONS AND VERIFYING ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, PIPE SIZES, ETC., BEFORE STARTING THE DEMOLITION OR NEW WORK.

O. FURNISH/INSTALL NEW SPRINKLER PIPING, HANGERS AND ASSOCIATED SPRINKLER HEADS TO ACCOMMODATE NEW CEILING, STRUCTURAL SUPPORTS, WALLS, DUCTWORK, ETC.

P. INDIVIDUAL BRANCH LINES TO A SINGLE SPRINKLER SHALL COMPLY WITH NFPA 13, SECTION 28.2.1.2 WHICH STATES, "PIPE SIZES SHALL BE NO LESS THAN 1-INCH (25 MM) NOMINAL FOR BLACK OR GALVANIZED STEEL PIPING AND 3/4-INCH (20 MM) NOMINAL FOR COPPER TUBING OR BRASS, STAINLESS STEEL OR NONMETALLIC PIPING LISTED FOR FIRE SPRINKLER SERVICE UNLESS PERMITTED BY SECTIONS 30.4 AND 30.6 OF NFPA 13."

Q. ALL NEW EXPOSED PIPING MUST BE PAINTED IN COMPLIANCE WITH PROJECT SPECIFICATION 09 91 00, PAINTING.

R. REUSE OF ANY SPRINKLER HEAD THAT IS REMOVED FROM SERVICE IS NOT ACCEPTABLE; REFER TO NFPA 25, SECTION 5.4.1.1.

S. ALL UPRIGHT SPRINKLER HEADS IN MECHANICAL EQUIPMENT ROOMS SHALL BE INTERMEDIATE TEMPERATURE RATING IN COMPLIANCE WITH NFPA 13, SECTION 9.4.22 AND TABLE 7.2.4.1 FOR INTERMEDIATE TEMPERATURE CLASSIFICATION.

T. IN THE EVENT THAT THE MECHANICAL EQUIPMENT, DUCTWORK, ETC. CREATES AN OBSTRUCTION THAT WILL INTERRUPT THE WATER IN A HORIZONTAL PLANE MORE THAN 18 INCHES BELOW THE SPRINKLER DEFLECTOR IN A MANNER TO LIMITED THE DISTRIBUTION OF WATER FROM REACHING THE PROTECTED HAZARD; ADDITIONAL SPRINKLER HEADS SHALL BE PROVIDED BY THIS CONTRACTOR IN MEETING THE REQUIREMENTS OF NFPA 13, SECTION 9.5.5.

NEW WORK KEYED NOTES

1. PROVIDE EXTENDED COVERAGE SIDEWALL SPRAY SPRINKLER HEADS FOR COVERAGE OF LIVING ROOM 102, WHERE THE SPRINKLER HEAD SPACING SHALL NOT EXCEED 16 FT X 22 FT AND THE MINIMUM FLOW IS 37 GPM COMPLYING WITH NFPA 13, SECTION 11.3.3.1.1 AND SIDEWALL SPRINKLER HEAD LISTING.
2. PROVIDE EXTENDED COVERAGE SIDEWALL SPRAY SPRINKLER HEADS FOR COVERAGE OF VESTIBULE ROOM 132, WHERE THE SPRINKLER HEAD SPACING SHALL NOT EXCEED 16 FT X 14 FT AND THE MINIMUM FLOW IS 29 GPM COMPLYING WITH NFPA 13, SECTION 11.3.3.1.1 AND SIDEWALL SPRINKLER HEAD LISTING.
3. PROVIDE EXTENDED COVERAGE SIDEWALL SPRAY SPRINKLER HEADS FOR COVERAGE OF BATHING ROOM 127, WHERE THE SPRINKLER HEAD SPACING SHALL NOT EXCEED 16 FT X 14 FT AND THE MINIMUM FLOW IS 29 GPM COMPLYING WITH NFPA 13, SECTION 11.3.3.1.1 AND SIDEWALL SPRINKLER HEAD LISTING.
4. NO FIRE SUPPRESSION DEVICES ARE ALLOWED TO BE INSTALLED IN THE CEILINGS LIVING ROOM 102 OR OPEN DINING ROOM 103, DUE TO CEILING OBSTRUCTIONS AND AVAILABLE SPACE IN THE UPPER CEILING AREAS. REFER TO STRUCTURAL, ARCHITECTURAL AND MECHANICAL PLANS.
5. FOUR (4) INCH AND TWO (2) INCH WET PIPE RISERS WATER SOURCE UP FROM THE BASEMENT LEVEL.
6. SPRINKLER HEADS IN ASSOCIATED ROOM SHALL BE PROVIDED WITH SPRINKLER GUARDS THAT MEET THE REQUIREMENTS OF NFPA 13 WHERE THEY MAY BE SUBJECTED TO MECHANICAL OR PHYSICAL DAMAGE DUE TO THE ENVIRONMENT OR USE WITHIN THESE SPACES.
7. WINDOW/GLASS HORIZONTAL PENDENT SPRINKLER HEADS.

ALTERNATE NOTE:

C PROVIDE CEILING MOUNTED PENDANT TYPE SPRINKERS IN VESTIBULE AND BATHING ROOMS IF ALTERNATE C IS ACCEPTED.

D PROVIDE CEILING MOUNTED PENDANT TYPE SPRINKERS IN LIVING ROOM IF ALTERNATE D IS ACCEPTED.

WALL RATING LEGEND

- 2 HR FIRE RATED
- 1 HR FIRE RATED
- 1 HR SMOKE BARRIER
- SMOKE PARTITION

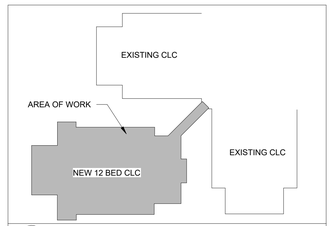
WORK AREAS OUTSIDE OF A RATED CONSTRUCTION BARRIER

CONTRACTOR SHALL BE REQUIRED TO PROVIDE/INSTALL THE REPLACEMENT OF CEILING TILES AT THE END OF EACH SHIFT FOR WORK AREAS OUTSIDE A RATED CONSTRUCTION BARRIER. IF THE TILES CAN NOT BE REPLACED THE SPRINKLER SYSTEM MAY BE CONSIDERED OUT OF SERVICE IN THESE AREAS AND A 1-HOUR FIRE RATED SEPARATION WILL BE REQUIRED BETWEEN THE CONSTRUCTION AREA AND THE OCCUPIED PORTION OF THE BUILDING.

REFERENCE NFPA 1, PARAGRAPH 13.3.3.3

MISCELLANEOUS

EX = EXTENDED COVERAGE SPRINKLER PROTECTION



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE

8 0 4 8 16 32

(in Feet)

1 inch = 8 ft.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE SUPPRESSION - FIRST FLOOR - PIPING PLAN

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: GAT | Drawn: JRC

Project Number: 508-349

Building Number:

Drawing Number: FX111

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC/47792 - CE Central Model.rvt

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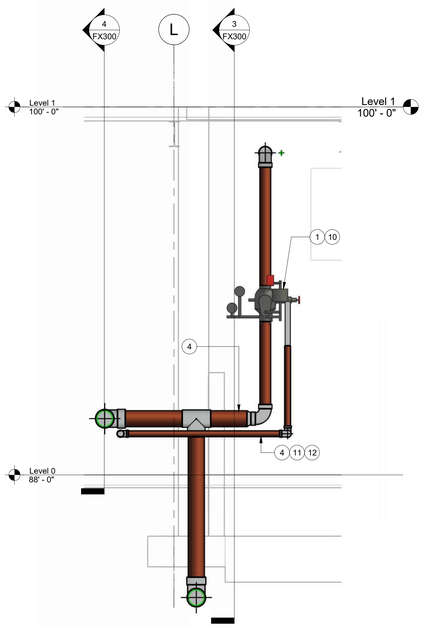
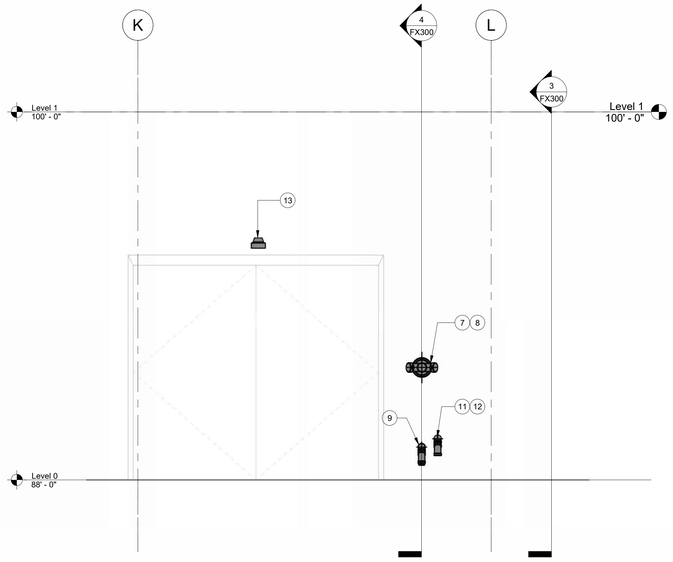
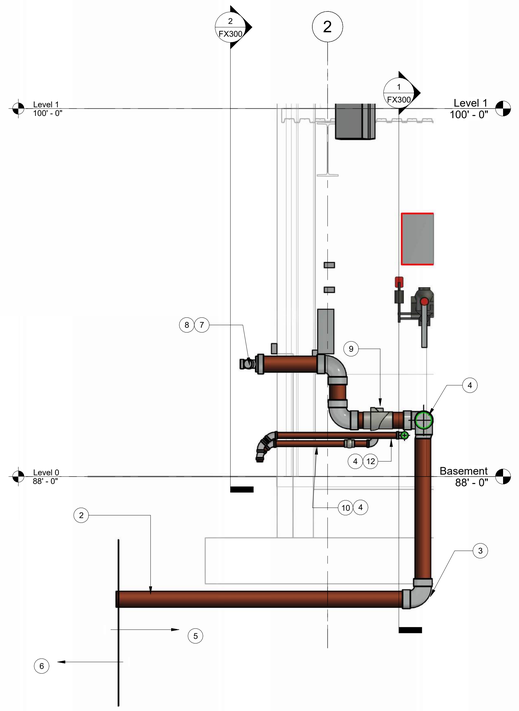


1 WET PIPE, STORZ AND FORWARD FLOW RISER ASSEMBLY
1/2" = 1'-0"



2 EXTERIOR STORZ & FORWARD FLOW TEST CONNECTION
1/2" = 1'-0"



3 UNDERGROUND, STORZ AND FORWARD FLOW TEST CONNECTIONS
1/2" = 1'-0"

GENERAL NOTES

A. REFER TO DRAWING FX001 FOR FIRE SUPPRESSION GENERAL NOTES, SYMBOLS AND LEGENDS.

B. REFER TO DRAWING FX002 & FX003 FOR FIRE SUPPRESSION DETAIL REQUIREMENTS.

C. REFER TO DRAWING FX004 FOR IMPAIRMENT AND FIRE WATCH REQUIREMENTS.

D. REFER TO DRAWING FX005 FOR UL PIPING AND MISCELLANEOUS DETAIL REQUIREMENTS.

E. THE DRAWING SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE INDICATED IS INTENDED FOR "GENERAL REFERENCE ONLY".

F. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE ROUTING OF SPRINKLER LINES TO ENSURE PIPING DOES NOT PASS OVER ELECTRICAL PANELS.

G. UNLESS OTHERWISE INDICATED ON THE FLOOR PLANS OR KEYED NOTE THE FIRE SUPPRESSION PIPING IS A WET PIPE SYSTEM.

H. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO ELIMINATE CONFLICT WITH OTHER TRADES. ANY WORK INSTALLED BY THIS CONTRACTOR THAT RESULTS IN CONFLICT, DUE TO LACK OF COORDINATION BETWEEN TRADES, SHALL BE CHANGED AS DIRECTED BY THE ARCHITECT/ENGINEER WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.

I. THE INFORMATION GIVEN HEREIN IS AS EXACT AS COULD BE SECURED FOR BIDDING PURPOSES AND ITS ACCURACY IS NOT GUARANTEED. THE AUTOMATIC SPRINKLER CONTRACTOR IS RESPONSIBLE FOR EXAMINING BOTH THE EXISTING AND NEW JOB CONDITIONS AND VERIFYING ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, PIPE SIZES, ETC., BEFORE STARTING THE DEMOLITION OR NEW WORK.

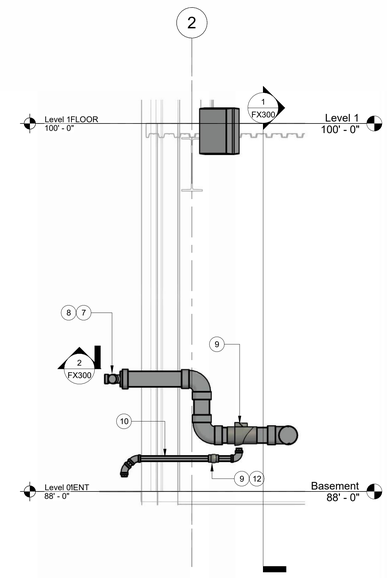
J. FURNISH/INSTALL NEW SPRINKLER PIPING, HANGERS, PIPE SUPPORTS AND ASSOCIATED SPRINKLER HEADS TO ACCOMMODATE NEW CEILING, STRUCTURAL SUPPORTS, WALLS, DUCTWORK, ETC.

K. INDIVIDUAL BRANCH LINES TO A SINGLE SPRINKLER SHALL COMPLY WITH NFPA 13, SECTION 28.2.1.2 WHICH STATES, "PIPE SIZES SHALL BE NO LESS THAN 1-INCH (25 MM) NOMINAL FOR BLACK OR GALVANIZED STEEL PIPING AND 3/4-INCH (20 MM) NOMINAL FOR COPPER TUBING OR BRASS, STAINLESS STEEL OR NONMETALLIC PIPING LISTED FOR FIRE SPRINKLER SERVICE UNLESS PERMITTED BY SECTIONS 30.4 AND 30.6 OF NFPA 13."

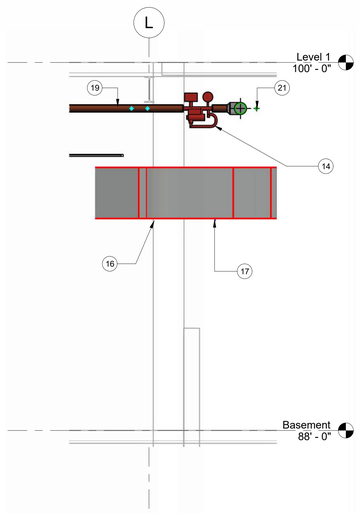
L. ALL NEW EXPOSED PIPING MUST BE PAINTED IN COMPLIANCE WITH PROJECT SPECIFICATION 09 91 00, PAINTING.

NEW WORK KEYED NOTES

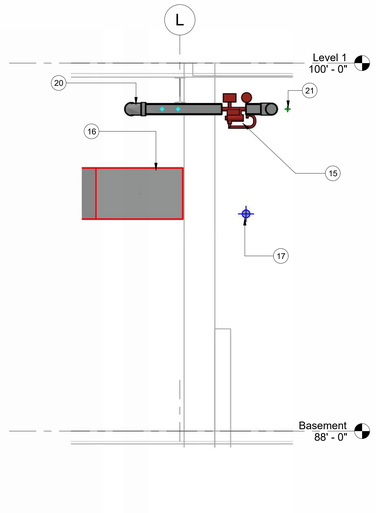
1. PROVIDE WET-PIPE COMPLETELY PRE-ASSEMBLED AND TESTED FIRE PROTECTION VALVE ASSEMBLY WITH WATER SUPPLY SHUTOFF VALVE, WET PIPE FIRE SPRINKLER VALVE ASSEMBLY COMPLETE, ALARM LINE PRESSURE SWITCHES, SUPERVISORY PRESSURE SWITCHES, A VALVE POSITION SUPERVISORY SWITCH, AND AIR PRESSURE GAUGES. AN ADDITIONAL SHUT OFF SHALL BE PROVIDED FOR FLEXIBILITY DURING TRIP TESTS.
2. INTERFACE WITH ONE (1) UNDERGROUND SIX (6) INCH MAINS FOR THE INTERFACE TO THE BUILDING'S WET PIPE FIRE SUPPRESSION SYSTEM.
3. PROVIDE THRUST BLOCKS RESTRAINTS MEETING NFPA 24, SECTION 10.6 FOR INTERFACES FROM THE 6-INCH CIVIL MAIN TO THE REDUCED PRESSURE PRINCIPLE BACKFLOW DEVICE SUPPLY TWO - OS&Y VALVES WITH TAMPER SWITCHES BEING PROVIDED BY THIS CONTRACTOR AND THE 6 -INCH CIVIL SUPPLY TO THE FIRE SPRINKLER ROOM.
4. PROVIDE PIPE STANDS FOR ABOVEGROUND FIRE PROTECTION PIPING WITHIN THE MECHANICAL ROOM B100.
5. BY FIRE PROTECTION CONTRACTOR
6. BY CIVIL CONTRACTOR.
7. FURNISH AND INSTALL A 6-INCH FORWARD FLOW TEST CONNECTION DOWNSTREAM OF THE BACKFLOW PREVENTION VALVES TO ENABLE MINIMUM FLOW RATE OF SYSTEM DEMAND, INCLUDING HOSE STREAM ALLOWANCE MEETING NFPA 13, SECTION 16.14.5.1 WHERE THE ARRANGEMENT SHALL BE SERVICEABLE WITHOUT REQUIRING TO MODIFY THE SYSTEM TO PERFORM THE TEST.
8. PROVIDE A WALL TYPE FIRE DEPARTMENT STORZ CONNECTION MEETING THE REQUIREMENT OF THE VA FIRE OFFICIAL AND THE LOCAL FIRE MARSHAL REQUIREMENTS.
9. PROVIDE CHECK VALVE IN THE FIRE DEPARTMENT CONNECTION PIPING, WITH AN AUTOMATIC DRIP VALVE IN COMPLIANCE WITH NFPA 13, SECTION 16.12.7. AUTOMATIC DRIP VALVE SHALL BE PROVIDED WITH AN APPROVED AIR GAP OF NOT LESS THAN 4-INCHES IN INVERT ELEVATION BETWEEN THE END OF THE DISCHARGE PIPING AND THE EXTERIOR GRADE LEVEL. THE DISCHARGE PIPING SHALL NOT BE DIRECTLY CONNECTION TO AN EXTERIOR STORM OR WATER DRAINAGE SYSTEM.
10. PROVIDE ALARM TEST CONNECTIONS NOT LESS THAN 2-INCH IN DIAMETER GIVING FLOW EQUAL TO ONE SPRINKLER OF A TYPE HAVING THE SMALLEST K-FACTOR INSTALLED ON THIS PARTICULAR SYSTEM SHALL BE PROVIDED TO EACH WATER FLOW TEST CONNECTION.
11. THE WET-PIPE INSPECTOR TEST DRAIN SHALL DISCHARGE TO THE BUILDING EXTERIOR TO FACILITATE TESTING. DRAIN PIPING SHALL BE 2-INCH MINIMUM TO ACCOMMODATE DISCHARGE FROM FULL FLOW TESTS AT A MAXIMUM PRESSURE. EXTERIOR DRAINS SHALL BE DESIGNED TO PREVENT FLOODING OR DAMAGE TO LANDSCAPE AND TO PREVENT WETTING OF WALKWAYS.
12. NOT LESS THAN 4 FEET OF EXPOSED DRAIN PIPE IN HEATED SPACE BEYOND VALVE WHEN PIPE EXTENDS OUTSIDE WITH A 45° SMOOTH BORE CORROSION RESISTANT OUTLET GIVING FLOW EQUIVALENT TO ONE SPRINKLER HEAD
13. WATER MOTOR GONG
14. 2-1/2 INCH FLOOR CONTROL VALVE ASSEMBLY NO 2-1 WITH DRAIN FOR BASEMENT SPRINKLER SYSTEM. FLOOR CONTROL VALVE ASSEMBLY 1-1/2 INCH DRAIN SHALL BE ROUTED TO THE EXTERIOR WITH A 45° SMOOTH BORE CORROSION RESISTANT OUTLET.
15. 4 INCH FLOOR CONTROL VALVE ASSEMBLY NO 1-1 WITH DRAIN FOR FIRST FLOOR SPRINKLER SYSTEM. FLOOR CONTROL VALVE ASSEMBLY 2 INCH DRAIN SHALL BE ROUTED TO THE EXTERIOR WITH A 45° SMOOTH BORE CORROSION RESISTANT OUTLET.
16. MECHANICAL DUCTWORK
17. PLUMBING DOMESTIC PIPING
18. ELECTRICAL LIGHTING
19. 2-1/2 INCH FIRE SUPPRESSION PIPING FOR BASEMENT LEVEL.
20. 4 INCH FIRE SUPPRESSION PIPING FOR FIRST FLOOR LEVEL.
21. 1 INCH FIRE SUPPRESSION PIPING ROUTED TO UPRIGHT SPRINKLER HEAD.



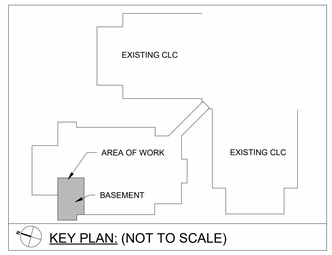
4 EXTERIOR STORZ/FORWARD FLOW TEST CONNECTION
1/2" = 1'-0"



5 2-1/2 INCH FLOOR CONTROL VALVE ASSEMBLY NO 2-1
1/2" = 1'-0"



6 4 INCH FLOOR CONTROL VALVE ASSEMBLY NO 1-1
1/2" = 1'-0"



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE
2 0 2 4 8
(in Feet)
1 inch = 2 ft.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON / CHARLOTTE ENGINEERS

ARCHITECT, STRUCTURAL ENGINEER
GUIDON DESIGN, INC.
1221 N. PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202

FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
CHARLOTTE ENGINEERS
5838 MONROE ROAD
CHARLOTTE, NC 28212

STAMP John Callahan

GEORGIA REGISTERED No. PE031384 PROFESSIONAL ENGINEER JOHN RICHARD CALLAHAN JR.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE SUPPRESSION - SECTIONS
Approved:
Phase: BID DOCUMENTS
FULLY SPRINKLERED
Project Title: CONSTRUCT TDVV CLC 12 BEDS
Location: 180 MARTIN DR, CARROLLTON, GA 30117
Issue Date: 12/16/2024
Checked: GAT
Drawn: JRC
Project Number: 508-349
Building Number:
Drawing Number: FX300

Autodesk Docs://22.9003 - VA Atlanta Tinka Davis CLC/4792 - CE Central Model.rvt
12/16/2024 9:44:07 AM

VA FORM 08 - 6231

HOSE BIBB SCHEDULE

SYMBOL	DESCRIPTION
P-804	WOODFORD MODEL B65 FREEZELESS RECESSED WALL HYDRANT WITH STAINLESS STEEL LOCKING COVER, 3/4" INLET, 3/4" HOSE OUTLET, AND VACUUM BREAKER.

ACCEPTED EQUALS - WOODFORD
PRIER

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY RESEMBLES AND PERFORMS EQUAL TO THE SPECIFIED PRODUCT. ONLY THE MANUFACTURERS LISTED WILL BE ACCEPTED UNLESS THE PROCEDURES FOR SUBSTITUTION AS INDICATED BY THE SPECIFICATIONS, ARE FOLLOWED. NO PRIVATE LABELED PRODUCTS WILL BE ACCEPTED FOR THOSE SPECIFIED WITHIN.

HOT WATER RECIRCULATING PUMP SCHEDULE

PUMP	SERVICE	TYPE	CAPACITY GPM.	CAPACITY HEAD (FEET)	VOLTAGE PHASE AND CYCLES	HORSEPOWER	MFG. AND MODEL NO. UNIT IS BASED ON	PUMP LOCATION
RCP-1	HOT WATER RECIRC.	INLINE	22.5	19.69	115V / 1PH / 60HZ	1/6	GRUNDFOS MAGNA3 32-60 F N LEAD FREE	MECH ROOM B100
RCP-2	HOT WATER RECIRC.	INLINE	22.5	19.69	115V / 1PH / 60HZ	1/6	GRUNDFOS MAGNA3 32-60 F N LEAD FREE	MECH ROOM B100

ACCEPTED EQUALS - B&G

COMPLIANCE NOTE: NSF/ANSI 61, ANNEX G AND NSF/ANSI 372 "LEAD FREE" PRODUCTS SHALL BE PROVIDED AND INSTALLED

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY RESEMBLES AND PERFORMS EQUAL TO THE SPECIFIED PRODUCT . ONLY THE MANUFACTURERS LISTED WILL BE ACCEPTED UNLESS THE PROCEDURES FOR SUBSTITUTION AS INDICATED BY THE SPECIFICATIONS, ARE FOLLOWED.

EXPANSION TANK SCHEDULE

SYMBOL	LOCATION	NO. OF TANKS	TANK VOLUME (GALLONS)	DIAMETER (INCHES)	MAXIMUM WORKING PRESSURE	MFG. AND MODEL No.
EX-1	MECH ROOM B100	1	80	24	125 PSI	AMTROL THERM-X-TROL MODEL ST-448-C

MIXING VALVE SCHEDULE

SYMBOL	DISCHARGE TEMPERATURE	MAXIMUM FLOW GPM	PIPE CONNECTION SIZE CW IN	PIPE CONNECTION SIZE HW IN	PIPE CONNECTION SIZE MIXED OUT	PRESSURE DROP AT MAXIMUM FLOW	MFG. AND MODEL NO.	REMARKS
TMV-1	115°F	30	1-1/4"	1-1/4"	1-1/2"	5"	LEONARD MODEL TM-1520B-LF-DT	VERIFY MANUFACTURE INSTALLATION REQUIREMENTS

ACCEPTED EQUALS - ARMSTRONG
WATTS

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY RESEMBLES AND PERFORMS EQUAL TO THE SPECIFIED PRODUCT. ONLY THE MANUFACTURERS LISTED WILL BE ACCEPTED UNLESS THE PROCEDURES FOR SUBSTITUTION AS INDICATED BY THE SPECIFICATIONS, ARE FOLLOWED. NO PRIVATE LABELED PRODUCTS WILL BE ACCEPTED FOR THOSE SPECIFIED WITHIN.

GAS WATER HEATER

SYMBOL	STORAGE CAPACITY (GALLONS)	RECOVERY @ 100° RISE (G.P.H.)	INPUT BTU/H NATURAL GAS	MFG. AND MODEL NO. UNIT IS BASED ON	LOCATION	REMARKS
GWH-1	90	175	150,000	LOCHINVAR SWA-150N	MECH ROOM B100	N/A
GWH-2	90	175	150,000	LOCHINVAR SWA-150N	MECH ROOM B100	N/A

PLUMBING CONTRACTOR SHALL PROVIDEE SIGNALS TO OWNERS BMS. COORDINATE WITH THE OWNER FOR ALL REQUIRED SIGNALS.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY RESEMBLES AND PERFORMS EQUAL TO THE SPECIFIED PRODUCT. ONLY THE MANUFACTURERS LISTED WILL BE ACCEPTED UNLESS THE PROCEDURES OR SUBSTITUTION AS INDICATED BY THE SPECIFICATIONS, ARE FOLLOWED.

TRAP PRIMER SCHEDULE

SYMBOL	DESCRIPTION
TP-2	PRECISION PLUMBING PRODUCTS P1-500 WITH A DU-4 DISTRIBUTION UNIT. TRAP PRIMER SHALL BE INSTALLED ABOVE CEILING AND DISTRIBUTION UNIT SHALL BE MOUNTED IN A ACCESSIBLE LOCATION.

CLEANOUT SCHEDULE

SYMBOL	DESCRIPTION
CO	JAY R. SMITH MODEL 4420C CLEANOUT, DUCO-COATED CAST IRON SPIGOT FERRULE WITH CAST BRONZE TAPER THREAD PLUG, NO-HUB CONNECTION, GAS AND WATERTIGHT.
FCO	JAY R. SMITH MODEL 4020 CLEANOUT, DURA-COATED CAST IRON BODY, HUB CONNECTION, GAS AND WATERTIGHT TAPERED THREADED ABS PLUG AND ROUND SCORIATED NICKEL BRONZE TOP.
GCO	JAY R. SMITH 4240 CLEANOUT WITH NON-TILT TRACTOR COVER AND CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREADED PLUG.
WCO	JAY R. SMITH 4530 CLEANOUT TEE, DURA-COATED CAST IRON BODY, NO-HUB CONNECTION, GAS AND WATERTIGHT TAPERED THREADED ABS PLUG AND SMOOTH STAINLESS STEEL WALL ACCESS COVER. LOCATE 24" OR LESS ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.

ACCEPTED EQUALS - JOSAM, ZURN

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY RESEMBLES AND PERFORMS EQUAL TO THE SPECIFIED PRODUCT. ONLY THE MANUFACTURERS LISTED WILL BE ACCEPTED UNLESS THE PROCEDURES FOR SUBSTITUTION AS INDICATED BY THE SPECIFICATIONS, ARE FOLLOWED.

GREASE INTERCEPTOR SCHEDULE

SYMBOL	MFG. AND MODEL NO.	NO. OF TANKS	FLOW CAPACITY	GREASE CAPACITY	REMARKS
GI-1	BIG DIPPER PRO W-200-IS	1	20 GPM	47 POUNDS	BIG DIPPER IS POINT SOURCE AUTOMATIC GREASE REMOVAL SYSTEMS. FULLY AUTOMATIC SELF CLEANING CYCLE. 115V/60HZ/1173 WATTS/10.2 AMPS WITH 8' POWER CORD.
GI-2	BIG DIPPER PRO W-200-IS	1	20 GPM	47 POUNDS	BIG DIPPER IS POINT SOURCE AUTOMATIC GREASE REMOVAL SYSTEMS. FULLY AUTOMATIC SELF CLEANING CYCLE. 115V/60HZ/1173 WATTS/10.2 AMPS WITH 8' POWER CORD.

ACCEPTED EQUALS -

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY RESEMBLES AND PERFORMS EQUAL TO THE SPECIFIED PRODUCT. ONLY THE MANUFACTURERS LISTED WILL BE ACCEPTED UNLESS THE PROCEDURES FOR SUBSTITUTION AS INDICATED BY THE SPECIFICATIONS, ARE FOLLOWED.

ROOF DRAIN SCHEDULE

SYMBOL	DESCRIPTION
RD-A	ZURN Z100F-EA-IC ROOF DRIAN, DURA-COATED CAST IRON BODY WITH INTEGRAL ADJUSTABLE EXTENSION SLEEVE, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND LOW SILHOUTTE CAST IRON DOME, BOTTOM OUTLET WITH INSIDE CAULK CONNECTION.
RD-B	ZURN Z100F-EA-IC-89-4 ROOF DRIAN, DURA-COATED CAST IRON BODY WITH INTEGRAL ADJUSTABLE EXTENSION SLEEVE, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, 4" INTERNAL WATER DAM, AND LOW SILHOUTTE CAST IRON DOME, BOTTOM OUTLET WITH INSIDE CAULK CONNECTION.
DSN-1	ZURN ZF199-SAN CHAMELEON DOWNSPOUT NOZZLE WITH FLAPPER, ALL ALUMINUM BODY.

ACCEPTED EQUALS - J.R. SMITH
JOSAM

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY RESEMBLES AND PERFORMS EQUAL TO THE SPECIFIED PRODUCT. ONLY THE MANUFACTURERS LISTED WILL BE ACCEPTED UNLESS THE PROCEDURES FOR SUBSTITUTION AS INDICATED BY THE SPECIFICATIONS, ARE FOLLOWED. NO PRIVATE LABELED PRODUCTS WILL BE ACCEPTED FOR THOSE SPECIFIED WITHIN.

* NOTE: SET ALL FLOOR DRAINS A MINIMUM OF 3/4" BELOW FINISHED FLOOR TO ALLOW FOR FLOOR SLOPE.*

SUMP PUMP SCHEDULE

SYMBOL	SERVICE	TYPE	CAPACITY GPM.	CAPACITY HEAD (FEET)	VOLTAGE PHASE AND CYCLES	HORSEPOWER	MFG. AND MODEL NO. UNIT IS BASED ON	PUMP LOCATION
SP-1	SUMP	SUBMERSIBLE	50	24	208V / 1PH / 60HZ	3/4	LIBERTY MODEL 1102/LE72M DUPLEX SUBMERSIBLE PUMP SYSTEM. PROVIDE WITH LIBERTY MODEL AE21L×3 DUPLEX PUMP CONTROLLER, NEMA 1 ENCLOSURE	MECH ROOM B100

ACCEPTED EQUALS -

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY RESEMBLES AND PERFORMS EQUAL TO THE SPECIFIED PRODUCT. ONLY THE MANUFACTURERS LISTED WILL BE ACCEPTED UNLESS THE PROCEDURES FOR SUBSTITUTION AS INDICATED BY THE SPECIFICATIONS, ARE FOLLOWED.

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	CONNECTIONS W	V	CW	HW	SPECIFICATIONS	REMARKS
P-102	WATERCLOSET - FLOOR MOUNTED - FLUSH VALVE - ADA	4"	2"	1-1/4"	-	TOILET - AMERICAN STANDARD MADERA MODEL 3248.001 1.6GPF VITREOUS CHINA ELONGATED TOILET WITH 1-1/2" TOP SPUD, 2-1/8" TRAPWAY, 16-1/2" RIM HEIGHT, BOLT CAPS, AND SLOTTED RIM FOR BEDPAN HOLDING. FLUSH VALVE - SLOAN BPW-1000-1.6 GPF OFFSET BEDPAN WASHER FLUSHOMETER WITH ADA COMPLIANT HANDLE, VANDAL RESISTANT STOP CAP WITH SET SCREW, SWEAT SOLDER ADAPTER WITH COVER TUBE, AND CAST SET SCREW WALL FLANGE. SEAT - AMERICAN STANDARD MODEL 5901.100 EXTRA HEAVY DUTY OPEN FRONT SEAT WITH STAINLESS STEEL CHECK HINGES LESS COVER.	PROVIDE WITH SHOCK ARRESTOR SA-A AT EACH TOILET
P-114	WATERCLOSET - FLOOR MOUNTED - FLUSH VALVE - ADA - BARIATRIC -	4"	2"	1-1/4"	-	TOILET - WHITEHALL MODEL WH2125-A-T-3-FM-1.6GPF-RFV-FVBO-HSBJ-OFLC-BL BARIATRIC ON FLOOR TOILET WITH FLOOR OUTLET, 1.6GPF, TOP SPUD, WITH BEDPAN LUGS, AND FLUSH VALVE RIGHT INLET LOCATION. FLUSH VALVE - SLOAN BPW-1000-1.6 GPF OFFSET BEDPAN WASHER FLUSHOMETER WITH ADA COMPLIANT HANDLE, VANDAL RESISTANT STOP CAP WITH SET SCREW, SWEAT SOLDER ADAPTER WITH COVER TUBE, AND CAST SET SCREW WALL FLANGE. SEAT - BIG JOHN HINGED SEAT, OPEN FRONT LESS COVER, INCLUDED WITH TOILET IN TOILET MODEL NUMBER.	PROVIDE WITH SHOCK ARRESTOR SA-A AT EACH TOILET
P-301	BATHTUB - GERIATRIC - ADA -	3" FS-A	2"	3/4"	3/4"	TUB/FAUCET - MASTERCARE MODEL MB-80 FREE STANDING HYDRO MASSAGE BATHTUB WITH WALL MOUNTED MIXING VALVE, FILL CONTROL VALVE, AND DRAIN. PLUMBING CONTRACTOR TO MAKE FINAL PLUMBING CONNECTIONS. DRAIN - PROVIDE 3" FS-A.	N/A
P-414	LAVATORY - WALL MOUNT - ADA -	2"	2"	1/2"	1/2"	LAVATORY - AMERICAN STANDARD "LUCERNE" 0356.915 20-1/2"X18-1/4" WHITE VITREOUS CHINA WALL MTD. LAVATORY WITH 8" FAUCET CENTERS, LESS OVERFLOW. FAUCET - CHICAGO FAUCETS MODEL 786-E29XKCP LEAD FREE DECK MOUNTED 8" SPREAD CHROME PLATED FAUCET WITH 4" WRIST BLADES, 5-1/4" C-C RIGID SPOUT, 2.2GPM LAMINAR FLOW, AND CERAMIC CARTRIDGES. ANGLE STOP - MCGUIRE MODEL LF2165LK LEAD FREE LAVATORY SUPPLY KIT WITH (2) 1/2"IPS X 3/8"OD LOOSE KEY STOPS, 15" FLEXIBLE COPPER SUPPLY, AND SHALLOW STEEL FLANGES. ALL COMPONENTS SHALL BE CHROME PLATED DRAIN - MCGUIRE PRODRAINWCSAN OFFSET STRAINER WITH 1-1/4"X4" BRASS 17GA TAILPIECE, SANIGUARD, AND LOCK SLIP NUT. P-TRAP - MCGUIRE MODEL 8902 1-1/4" X 1-1/2" 17GA SEAMLESS BRASS CONSTRUCTION AND BRASS SLIP NUTS. ALL COMPONENTS SHALL BE CHROME PLATED. CARRIER - ZURN MODEL 1231 CONCEALED ARM LAVATORY CARRIER WITH DURA-COATED RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, CAST IRON ADJUSTABLE HEADERS, CONCEALED ARMS, STEEL SLEEVES, ALIGNMENT TRUSS, AND MOUNTING FASTENERS.	PROVIDE WITH TRUEBRO LAV SHIELD COORDINATE SINK DEPTH WITH CASEWORK. PROVIDE WITH WATTS MODEL LFUSG-HWP POINT OF USE MIXING VALVE WITH SANITIZING PURGE LEVER
P-415	LAVATORY - SOLID SURFACE - ADA -	2"	2"	1/2"	1/2"	LAVATORY - SOLID SURFACE INTEGRAL LAVATORY BY OTHERS. PLUMBING CONTRACTOR TO ROUGH WITH FINAL CONNECTIONS. FAUCET - T&S BRASS MODEL B-2866-05FVC-CR LEAD FREE DECK MOUNTED 8" SPREAD CHROME PLATED FAUCET WITH 4" WRIST BLADES, 5-1/4" C-C RIGID SPOUT, 0.35GPM LAMINAR FLOW, AND CERAMIC CARTRIDGES. ANGLE STOP - MCGUIRE MODEL LF2165LK LEAD FREE LAVATORY SUPPLY KIT WITH (2) 1/2"IPS X 3/8"OD LOOSE KEY STOPS, 15" FLEXIBLE COPPER SUPPLY, AND SHALLOW STEEL FLANGES. ALL COMPONENTS SHALL BE CHROME PLATED DRAIN - MCGUIRE PRODRAINWCSAN OFFSET STRAINER WITH 1-1/4"X4" BRASS 17GA TAILPIECE, SANIGUARD, AND LOCK SLIP NUT. P-TRAP - MCGUIRE MODEL 8902 1-1/4" X 1-1/2" 17GA SEAMLESS BRASS CONSTRUCTION AND BRASS SLIP NUTS. ALL COMPONENTS SHALL BE CHROME PLATED.	PROVIDE WITH WATTS MODEL LFUSG-HWP POINT OF USE MIXING VALVE WITH SANITIZING PURGE LEVER
P-421	LAVATORY - SOLID SURFACE - BARIATRIC - ADA -	2"	2"	1/2"	1/2"	LAVATORY - WILLOUGHBY MODEL BHS-3123-NV-8CC SOLID SURFACE BARIATRIC LAVATORY WITH 8" CENTERSET HOLES FOR FAUCET BELOW. FAUCET - T&S BRASS MODEL B-2866-05FVC-CR LEAD FREE DECK MOUNTED 8" SPREAD CHROME PLATED FAUCET WITH 4" WRIST BLADES, 5-1/4" C-C RIGID SPOUT, 0.35GPM LAMINAR FLOW, AND CERAMIC CARTRIDGES. ANGLE STOP - MCGUIRE MODEL LF2165LK LEAD FREE LAVATORY SUPPLY KIT WITH (2) 1/2"IPS X 3/8"OD LOOSE KEY STOPS, 15" FLEXIBLE COPPER SUPPLY, AND SHALLOW STEEL FLANGES. ALL COMPONENTS SHALL BE CHROME PLATED DRAIN - MCGUIRE PRODRAINWCSAN OFFSET STRAINER WITH 1-1/4"X4" BRASS 17GA TAILPIECE, SANIGUARD, AND LOCK SLIP NUT. P-TRAP - MCGUIRE MODEL 8902 1-1/4" X 1-1/2" 17GA SEAMLESS BRASS CONSTRUCTION AND BRASS SLIP NUTS. ALL COMPONENTS SHALL BE CHROME PLATED.	PROVIDE WITH WATTS MODEL LFUSG-HWP POINT OF USE MIXING VALVE WITH SANITIZING PURGE LEVER
P-502	MOP BASIN -	3"	2"	3/4"	3/4"	BASIN - FIAT MODEL TSB3000 24"x24"x12" TERRAZZO MOP BASIN WITH STAINLESS STEEL FACTORY INSTALLED DRAIN BODY COMPLETE WITH JOINT CONNECTOR FOR A 3" DRAIN PIPE, COMBINATION DOME STRAINER, MOP HANGER, HOSE BRACKET WITH HOSE, STAINLESS STEEL LINT BASKET, AND MSG WALL GUARDS. FAUCET - AMERICAN STANDARD MODEL 8344.212 CHROME PLATED FAUCET WITH INTEGRAL STOPS, VACUUM BREAKER, CERAMIC CARTRIDGES, GARDEN HOSE THREAD OUTLET, PAIL HOOK, AND WALL BRACE.	PROVIDE FIAT 889-CC MOP HANGER AT 60" A.F.F., PROVIDE FIAT 832-AA HOSE AND HOSE BRACKET. SEE DETAIL 11/P002 FOR MOUNTING CONFIGURATION. PROVIDE WITH CHICAGO FAUCET HOSE SILL WITH APOLLO MODEL HBDUC 38LF-304-02 DUAL CHECK VACUUM BREAKER FOR CHEMICAL DISTRIBUTION UNIT.
P-524	STAINLESS STEEL-DOUBLE BOWL SINK - ADA -	2"	2"	1/2"	1/2"	SINK - ELKAY LRAD332155 33"X21"X5.5" DEEP TOP MOUNT, FULLY UNDERCOATED, 18 GA. TYPE 304 DOUBLE BOWL STAINLESS STEEL SINK. FAUCET - CHICAGO FAUCETS MODEL 201-G8AE29-317XKAB DECK MOUNTED 8" FIXED CENTER 8"GOOSENECK, 2.2 GPM LAMINAR FLOW, 4" VANDAL PROOF WRISTBLADE HANDELS, AND CERAMIC 1/4 TURN OPERATING CARTRIDGE. ANGLE STOP - MCGUIRE LFH2165LK LOOSE KEY ANGLE STOP 1/2" IPS FEMALE INLET AND 3/8"x1/2" LONG CHROME PLATED FLEXIBLE TUBE. PROVIDE WITH CHROME PLATED OR STAINLESS STEEL LOOSE KEY CAP. P-TRAP - MCGUIRE NO. 8912 1-1/2"x1-1/2" P-TRAP WITH ESCUTCHEON. DRAIN - MCGUIRE NO. 152 FLAT GRID STRAINER WITH 1-1/2"X4" TAILPIECE.	PROVIDE WITH WATTS MODEL LFUSG-HWP POINT OF USE MIXING VALVE WITH SANITIZING PURGE LEVER
P-528	STAINLESS STEEL-SINGLE BOWL SINK - ADA -	2"	2"	1/2"	1/2"	SINK - ELKAY LRAD191855 19"X18"X5.5" DEEP TOP MOUNT, FULLY UNDERCOATED, 18 GA. TYPE 304 STAINLESS STEEL SINK. FAUCET - CHICAGO FAUCETS MODEL 201-G8AE29-317XKAB DECK MOUNTED 8" FIXED CENTER 8"GOOSENECK, 2.2 GPM LAMINAR FLOW, 4" VANDAL PROOF WRISTBLADE HANDELS, AND CERAMIC 1/4 TURN OPERATING CARTRIDGE. ANGLE STOP - MCGUIRE LFH2165LK LOOSE KEY ANGLE STOP 1/2" IPS FEMALE INLET AND 3/8"x1/2" LONG CHROME PLATED FLEXIBLE TUBE. PROVIDE WITH CHROME PLATED OR STAINLESS STEEL LOOSE KEY CAP. P-TRAP - MCGUIRE NO. 8912 1-1/2"x1-1/2" P-TRAP WITH ESCUTCHEON. DRAIN - MCGUIRE NO. 152 FLAT GRID STRAINER WITH 1-1/2"X4" TAILPIECE.	PROVIDE WITH WATTS MODEL LFUSG-HWP POINT OF USE MIXING VALVE WITH SANITIZING PURGE LEVER
P-701	SHOWER - ADA -	2"	2"	1/2"	1/2"	SHOWER - COMFORT DESIGNS MODEL SSB 6238 TR .75 SHOWER PAN, FINISH SHALL BE SANITARY GRADE SOLID SURFACE WITH TRENCH DRAIN. SHOWER VALVE - LAWLER SINGLE STAGE 3800 WITH WALL TRIM ROUND FACE PLATE. INTEGRAL CHECK VALVES, DIVERTER VALVE, AND VACUUM BREAKER WITH AMERICAN STANDARD 2.5GPM SHOWER HEAD. DRAIN - INTEGRAL TRENCH DRAIN.	INSTALL PER MANUFACTURER'S REQUIREMENTS FOR ADA COMPLIANCE. PROVIDE CHECK VALVE ON HOT WATER SIDE.
P-705	SHOWER - ADA -	-	-	1/2"	1/2"	SHOWER VALVE - LAWLER SINGLE STAGE 3800 WITH WALL TRIM ROUND FACE PLATE, INTEGRAL CHECK VALVES, DIVERTER VALVE, AND VACUUM BREAKER WITH AMERICAN STANDARD 2.5GPM SHOWER HEAD.	INSTALL PER MANUFACTURER'S REQUIREMENTS FOR ADA COMPLIANCE. PROVIDE CHECK VALVE ON HOT WATER SIDE.
P-709	EMERGENCY EYE WASH - WALL MOUNTED -	-	-	1/2"	1/2"	EYE WASH - GUARDIAN MODEL G5026BP-FSH-TMV WALL MOUNTED EYE WASH/DRENCH HOSE UNIT WITH BCAKFLOW PREVENTER, STAINLESS STEEL HOSE, AND THERMOSTATIC MIXING VALVE GAURDIAN MODEL G3600LF.	N/A
P-604	WATER FOUNTAIN ADA -	2"	2"	1/2"	-	EWC - ELKAY MODEL NO. LZWS-LRPBM28K BI-LEVEL FOUNTAIN WITH BOTTLE FILLER AND ELKAY ELECTRIC WATER CHILLER MODEL NO. ECH8, 8.0 GPH OF 50°F WATER, FRONT PUSH PAD ACTIVATION, FLEXIBLE GUARD ON BUBBLER, REFRIGERANT, UL LISTED, SHALL COMPLY WITH ANSI 117.1 AND ADA. SHALL COMPLY WITH THE SAFE DRINKING WATER ACT AND LEAD CONTAINATION CONTROL ACT. SHALL COMPLY WITH ANSI/NSF 61. ANGLE STOP - MCGUIRE HG165LK LOOSE KEY 1/2" IPS. FEMALE INLET WITH 3/8"X12" LONG FLEXIBLE TUBE. PROVIDE WITH STAINLESS STEEL OR CHROME PLATED LOOSE KEY CAP. P-TRAP - MCGUIRE NO. 8902 SAN (1-1/4" X 1-1/2") 17 GA. CAST P-TRAP AND WALL BEND.	PROVIDE WITH FLOOR MOUNTED CARRIER AS RECOMMENDED BY ELKAY PROVIDE WITH SA-A SHOCK ARRESTOR
P-808	WASHER MACHINE DRAIN BOX -	3"	2"	1/2"	1/2"	WALL BOX - GUY GRAY MODEL TT200QTS POWDER COATED WATER SUPPLY BOX WITH DUAL OUTLETS AND BRASS QUARTER TURN VALVE.	PROVIDE WATER SUPPLY WITH SPILL RESISTANT VACUUM BREAKER

SPECIFIED PRODUCT	ACCEPTED EQUAL
FAUCETS -	CHICAGO, T&S BRASS,
CHINA -	AMERICAN STANDARD, KOHLER
SINK TRIM -	MCGUIRE
S.S. SINKS -	ELKAY, JUST
SCRUB SINKS -	SLOAN
FLUSH VALVES -	SLOAN, ZURN
WATER COOLERS -	ELKAY, OASIS
CARRIERS/INTERCEPTORS -	ZURN, JAY R. SMITH, MIFAB
ICE MAKER BOX -	IPS, PPP INC.
EMERGENCY EYEWASH/SHOWER -	GUARDIAN

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY RESEMBLES AND PERFORMS EQUAL TO THE SPECIFIED PRODUCT. ONLY THE MANUFACTURERS LISTED WILL BE ACCEPTED UNLESS THE PROCEDURES FOR SUBSTITUTION AS INDICATED BY THE SPECIFICATIONS, ARE FOLLOWED. NO PRIVATE LABELED PRODUCTS WILL BE ACCEPTED FOR THOSE SPECIFIED WITHIN.

GENERAL NOTES:
1. PROVIDE TRUEBRO 'LAV-GUARD' INSULATING SAFETY COVERS FOR ADA ACCESSIBLE SINKS WITH EXPOSED HOT AND COLD WATER SUPPLIES, DRAINS, AND P-TRAPS. COLOR SHALL MATCH THE FIXTURE. COORDINATE WITH PROJECT ARCHITECT.
2. ALL FAUCETS, VALVES, AND EQUIPMENT SHALL BE LEAD FREE, BEARING NFS 61 APPROVAL
3. PROFLO, MAINLINE OR OTHER SIMILAR TYPE QUALITY EQUIPMENT AND ACCESSORIES SHALL NOT BE SUPPLIED FOR THIS PROJECT. SUCH PRODUCT LINES WILL BE REJECTED.

FLOOR DRAIN SCHEDULE

SYMBOL	DESCRIPTION
FD-B	ZURN ZS-415SS-VP FLOOR DRAIN, DURA COATED CAST IRON BODY, COMBINATION INVERTIBLE MEMBRANE CLAMP/ADJUSTABLE COLLAR, 6" DIAMETER MEDIUM DUTY VERTICALLY ADJUSTABLE SATIN FINISH VANDAL PROOF TOP, AND FIXED STAINLESS STEEL STRAINER. PROVIDE TRAP PRIMER TP-2 FOR EACH FLOOR DRAIN.
FD-S	ZURN ZS-1901 FLOOR SINK, 8" SUMP DEPTH, COATED CAST IRON BODY, AND SQUARE STAINLESS STEEL FRAME AND FULL GRATE, WITH WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, COMPLETE WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER.

ACCEPTED EQUALS - J.R. SMITH
JOSAM

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY RESEMBLES AND PERFORMS EQUAL TO THE SPECIFIED PRODUCT. ONLY THE MANUFACTURERS LISTED WILL BE ACCEPTED UNLESS THE PROCEDURES FOR SUBSTITUTION AS INDICATED BY THE SPECIFICATIONS, ARE FOLLOWED. NO PRIVATE LABELED PRODUCTS WILL BE ACCEPTED FOR THOSE SPECIFIED WITHIN.

* NOTE: SET ALL FLOOR DRAINS A MINIMUM OF 3/4" BELOW FINISHED FLOOR TO ALLOW FOR FLOOR SLOPE.*

PLUMBING LEGEND

GENERAL

ELBOW DN	
ELBOW UP	
PIPE CONTINUES	
CONNECT TO EXISTING	
DEMO TO EXISTING	
BALL VALVE	

ABBREVIATIONS

ABOVE FINISHED CEILING	AFC
ABOVE FINISHED FLOOR	AFF
BELOW FINISHED FLOOR	BFF
CLEANOUT	CO
COLD WATER	CW
DOWN	DN
EXISTING	(E)
GAS WATER HEATER	GWH
HOSE BIBB	HB
HOT WATER	HW
HOT WATER RETURN	HWR
OXYGEN	OXY / O
PUMP DISCHARGE	PD
PLUMBING DRAINAGE INSTITUTE	P.D.I.
SHOCK ARRESTOR & PDI SIZE	SA-A
SUMP PUMP	SP
VACUUM	V
WASTE	W

PIPING

SANITARY WASTE BELOW FINISHED FLOOR	W
SANITARY VENT ABOVE FINISHED CEILING	V
COLD WATER ABOVE FINISHED CEILING	CW
HOT WATER ABOVE FINISHED CEILING	HW
HOT WATER RECIRCULATED ABOVE FINISHED CEILING	HWR
EMERGENCY ROOF LEADER ABOVE FINISHED CEILING	ERL
ROOF LEADER ABOVE FINISHED CEILING	RL
STORM DRAIN (ROOF LEADER) BELOW FINISHED FLOOR	SD

WASTE AND VENT PIPING TABLES 702.1, 702.2, 702.3 & 702.4

DRAIN, WASTE AND VENT PIPING SHALL BE SELECTED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE - 2012 EDITION, TABLE 702.1, 702.2, 702.3 & 702.4. (REFER TO PLUMBING SPECIFICATIONS FOR SPECIFIED PIPING MATERIAL.)

DOMESTIC WATER PIPING TABLES 605.3, 605.4 & 605.5

POTABLE WATER PIPING SHALL BE SELECTED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE - 2012 EDITION TABLE 605.3, 605.4 & 605.5. (REFER TO PLUMBING SPECIFICATIONS FOR SPECIFIED PIPING MATERIAL.)

SHOCK ARRESTOR SCHEDULE

P.D.I. SIZE	FIXTURE TAG	FIXTURE UNITS	MANUFACTURER OR EQUAL
A	SA-A	1 - 11	ZURN, JOSAM, SMITH, PPI, INC.
B	SA-B	12 - 32	ZURN, JOSAM, SMITH, PPI, INC.
C	SA-C	33 - 60	ZURN, JOSAM, SMITH, PPI, INC.
D	SA-D	61 - 113	ZURN, JOSAM, SMITH, PPI, INC.

GENERAL NOTE: ALL ARRESTORS SHALL BE LEAD FREE, BEARING NFS 61 APPROVAL.

DEDUCT ALTERNATES

A	**ALTERNATE A** - ELIMINATE SECONDARY ELECTRICAL FEED
B	**ALTERNATE B** - ELIMINATE LANDSCAPING
C	**ALTERNATE C** - ELIMINATE CLERESTORY AREAS
D	**ALTERNATE D** - ELIMINATE CLERESTORY AREAS

NOTE: SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PLUMBING - DRAWING INDEX

Sheet Number	Sheet Name
P001	PLUMBING - SCHEDULES, SYMBOLS, AND DRAWING INDEX
P002	PLUMBING - DETAILS
PP100	PLUMBING - BASEMENT FLOOR PLANS
PP110	PLUMBING - FIRST FLOOR - SANITARY PLAN
PP111	PLUMBING - FIRST FLOOR - DOMESTIC PLAN
PP112	PLUMBING - FIRST FLOOR - STORM DRAINAGE PLAN
PP120	PLUMBING - LOWER ROOF PLAN
PP130	PLUMBING - FIRST FLOOR - SANITARY RISER
PP131	PLUMBING - FIRST FLOOR - DOMESTIC RISER
PP132	PLUMBING - FIRST FLOOR - STORM DRAINAGE RISER

Revisions:	Date:

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GEORGIA REGISTERED No. PE033510 PROFESSIONAL ENGINEER GREGORY A. TURNER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - SCHEDULES, SYMBOLS, AND DRAWING INDEX

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024

Checked: GAT

Drawn: DAS

Project Number: 508-349

Building Number:

Drawing Number: P001

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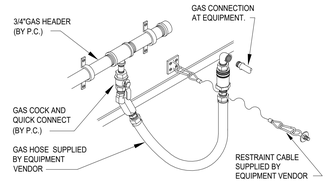
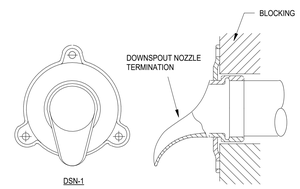
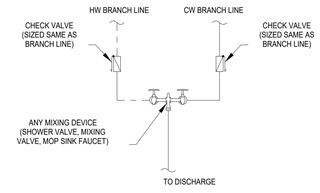


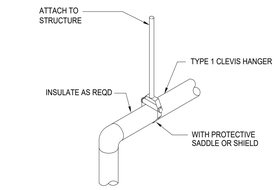
GAS CONNECTION DETAIL — NTS — 18



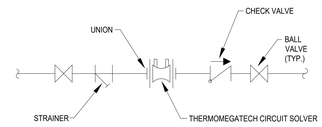
SPECIAL PURPOSE DOWNSPOUT NOZZLE — NTS — 16



DOMESTIC HOT WATER MIXING — NTS — 12

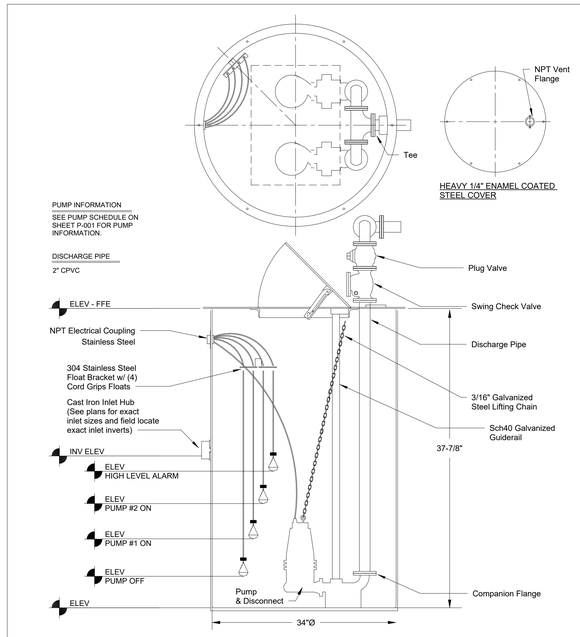


TYPE 1 CLEVIS HANGER — NTS — 8

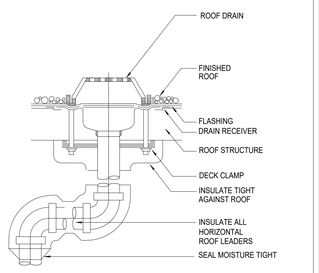


GENERAL NOTES:
1. PROVIDE DIELECTRIC UNIONS AT ALL CONNECTION POINTS CONNECTING DISSIMILAR METALS.
2. PROVIDE FLOW CONTROL DEVICE SHOWN ABOVE OR APPROVED EQUAL AT ALL LOCATIONS WHERE BALANCING VALVES ARE REQUIRED.

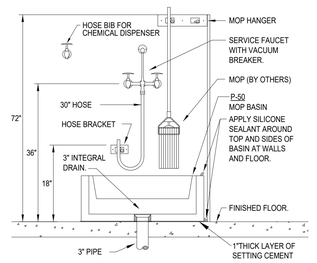
FLOW CONTROL DEVICE — NTS — 4



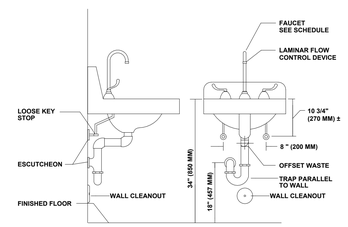
SUMP PUMP & BASIN — NTS — 17



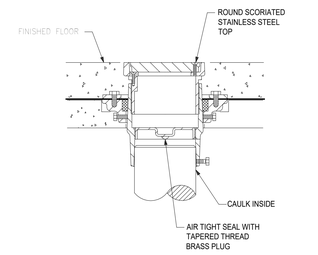
ROOF DRAIN DETAIL — NTS — 15



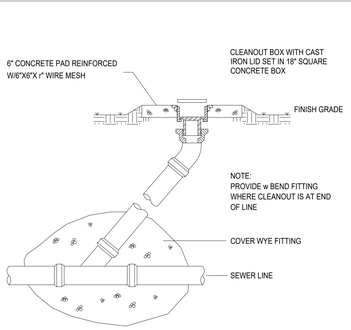
MOP SINK BASIN DETAIL — NTS — 11



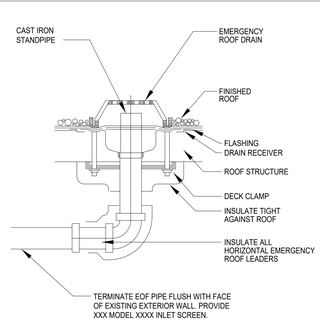
TYP. WHEELCHAIR LAVATORY — NTS — 7



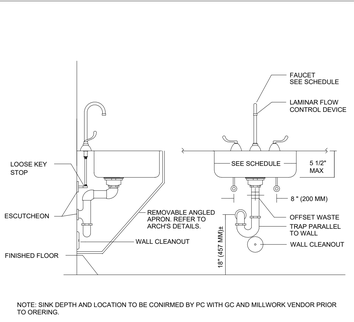
FLOOR CLEANOUT DETAIL — NTS — 3



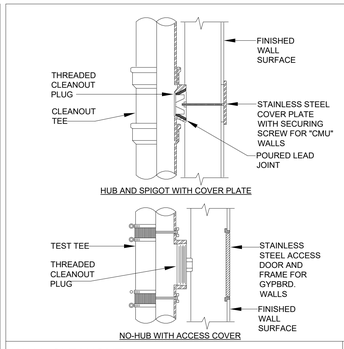
EXTERIOR CLEAN OUT DETAIL — NTS — 14



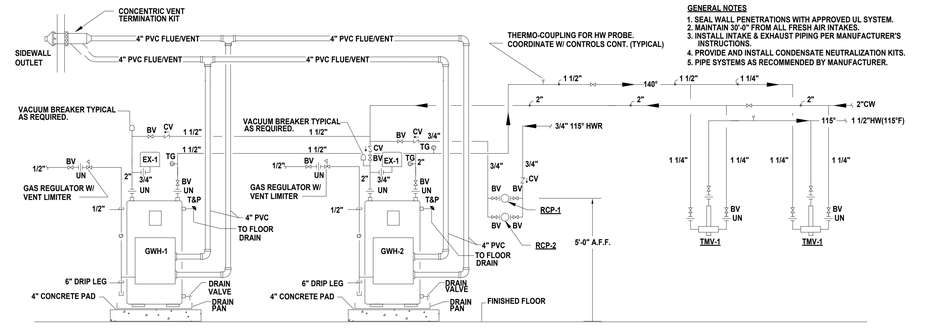
EMERGENCY OVERFLOW DRAIN — NTS — 10



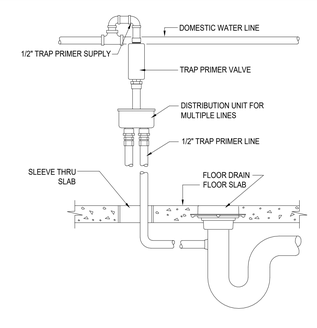
TYPICAL SS SINK — NTS — 6



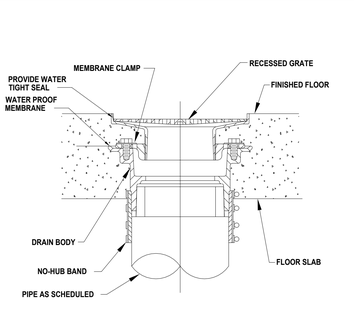
WALL CLEANOUT — NTS — 2



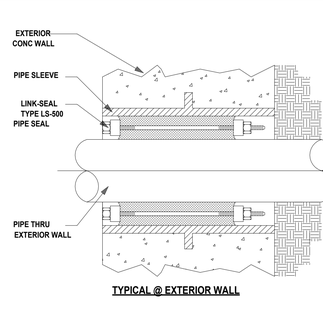
GAS WATER HEATER DETAIL — NTS — 13



TRAP PRIMER DETAIL — NTS — 9



FLOOR DRAIN DETAIL — NTS — 5



PIPE LINK SEAL — NTS — 1

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - DETAILS

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024

Checked: GAT

Drawn: DAS

Project Number: 508-349

Building Number:

Drawing Number: P002

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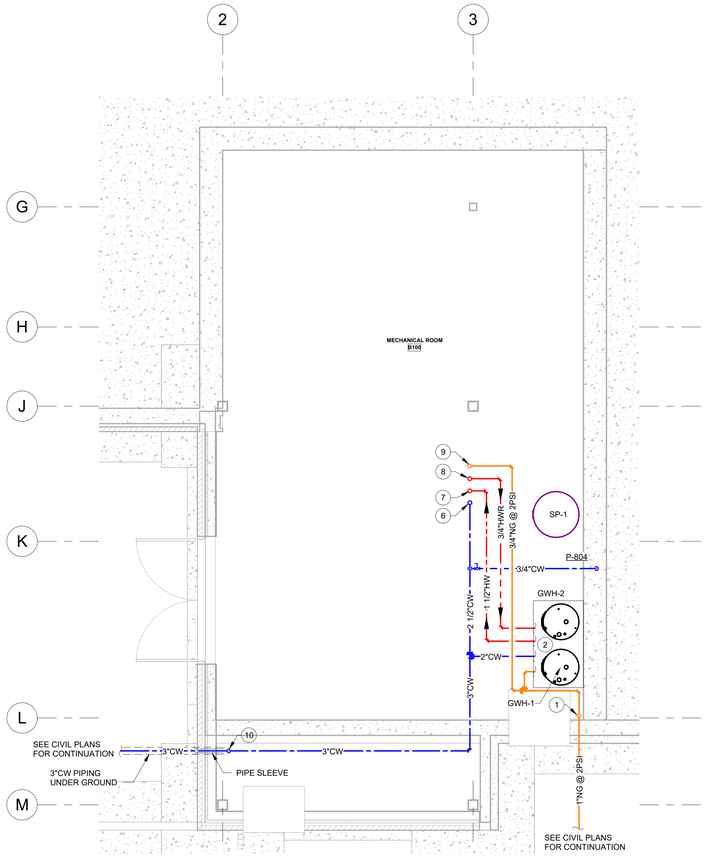
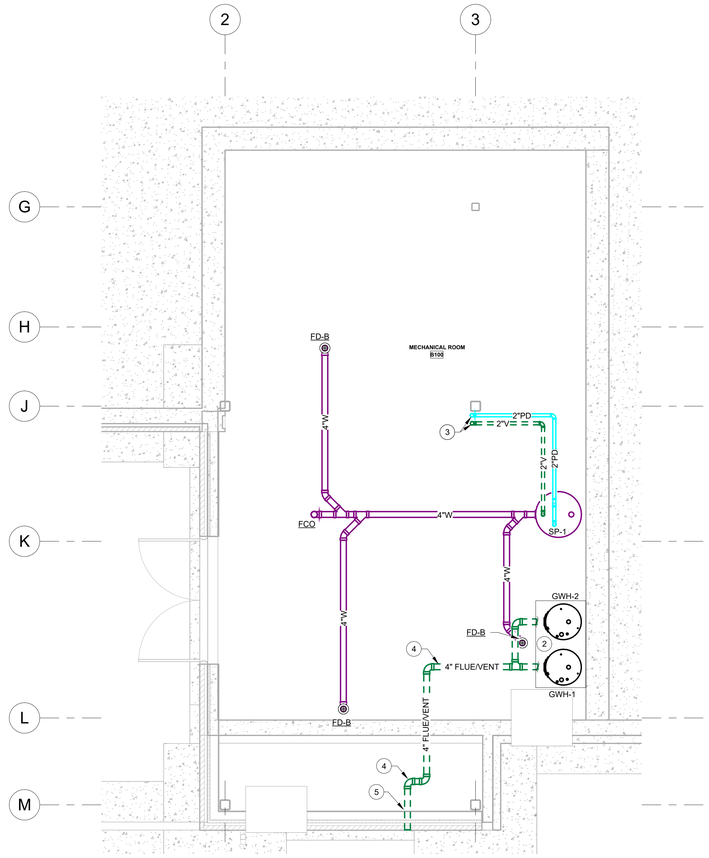


1 PLUMBING - BASEMENT FLOOR - DOMESTIC PLAN
1/4" = 1'-0"



2 PLUMBING - BASEMENT FLOOR - SANITARY PLAN
1/4" = 1'-0"

GENERAL NOTES

A. THE PLUMBING CONTRACTOR SHALL VERIFY AND COORDINATE THE INSTALLATION OF THE PLUMBING SYSTEMS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID CONFLICTS ABOVE CEILING AND BELOW FLOORS.

B. THE PLUMBING CONTRACTOR SHALL VERIFY ALL WASTE AND WATER REQUIREMENTS AND LOCATIONS FOR CONNECTING OWNERS EQUIPMENT PRIOR TO INSTALLATION. PROVIDE ALL NECESSARY MATERIALS AND COMPONENTS. VERIFY AND INSTALL PER MANUFACTURES WRITTEN SPECIFICATIONS, INSTRUCTIONS, AND ALL LOCAL AND NATIONAL CODES.

C. PLUMBING CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS ALL FIRE OR SMOKE RATED BARRIERS, WALLS, OR PARTITIONS, AND ALL LOCAL NATIONAL CODES.

D. PLUMBING CONTRACTOR SHALL NOT INSTALL SHUT-OFF VALVES ABOVE WHERE ANY SHEET ROCK CEILINGS ARE TO BE INSTALLED. WHERE VALVES DO OCCUR, A 2`X2` ACCESS PANEL SHALL BE INSTALLED. ARCHITECT SHALL BE NOTIFIED BEFORE PANEL IS INSTALLED.

E. THE PLUMBING CONTRACTOR SHALL VERIFY AND COORDINATE ALL PIPING INVERTS WITH EXISTING CONDITIONS PRIOR TO NEW INSTALLATIONS. PLUMBING DOCUMENTS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INCLUDE EVERY ASPECT OF THE REQUIRED WORK. PLUMBING CONTRACTOR SHALL ENSURE A COMPLETE AND WORKING SYSTEM IS INSTALLED.

F. FIELD VERIFY EXACT LOCATION AND SIZE OF WASTE, VENT, STORM, AND WATER PIPING RISERS PRIOR TO ANY DEMOLITION AND RELOCATION. CONTACT ENGINEER ONCE PIPING SYSTEMS HAVE BEEN UNCOVERED/EXPOSED.

G. ALL DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR TO PROVIDE COORDINATION DOCUMENTS IN ACCORDANCE WITH THE SPECIFICATIONS. ADDITIONAL TRANSITIONS REQUIRED DUE TO FIELD CONDITIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

H. MECHANICAL PRESS-CONNECT FITTINGS FOR COPPER PIPE AND TUBE **ARE PROHIBITED**.

NEW WORK KEYED NOTES

1. NATURAL GAS EMERGENCY SHUT OFF VALVE APOLLO MODEL 88L-245-24 WITH FIRE SAFE GRAPHITE PACKING AND MULTI SEAL SEATS. PROVIDE ACTUATOR WITH BATTERY BACKUP. NEMA 4 4X, 7, ND 9 PROTECTION APOLLO #CS600XL2E. PROVIDE WALL MOUNTED EMERGENCY SHUT OFF BUTTON IN MECHANICAL ROOM B100 LOCATION ADJACENT TO VALVE. COORDINATE WITH ELECTRICAL CONTRACTOR FOR FINAL CONNECTION. PROVIDE WITH EKM METERING 3/4" PULSE OUTPUT GAS METER MODEL APGM-075-CF WITH COMPLETE SYSTEM REQUIRED TO ALLOW FOR REMOTE READING OF METER.
2. SEE DETAIL 13/P002 FOR PIPING INFORMATION. PROVIDE 4" CONCRETE PAD FOR WATER HEATERS.
3. 2"V AND 2"PD PIPING UP TO FIRST FLOOR CEILING, SEE SHEET PP110 FOR CONTINUATION.
4. PROPOSED ROUTING OF 4" PVC FLUE/VENT PIPING SERVING GAS WATER HEATERS GWH-1 AND GWH-2, SEE DETAIL 13/P002.
5. COMBINE SEPARATE 4" PVC FLUE/VENT PIPING AND PROVIDE A SIDEWALL CONCENTRIC VENT TERMINATION KIT.
6. 2-1/2"CW UP TO ABOVE LEVEL 01 CEILING, SEE SHEET PP111 FOR CONTINUATION.
7. 1-1/2"HW UP TO ABOVE LEVEL 01 CEILING, SEE SHEET PP111 FOR CONTINUATION.
8. 3/4"HWR UP TO ABOVE LEVEL 01 CEILING, SEE SHEET PP111 FOR CONTINUATION.
9. 3/4"NG UP TO ABOVE LEVEL 01 CEILING, SEE SHEET PP111 FOR CONTINUATION.
10. 3"CW UP FROM BELOW GROUND, PROVIDE WITH SHUT-OFF VALVE. PROVIDE WITH NEXTCENTURY WIRELESS SUB-METERING SYSTEM WITH CAPABILITY OF BEING ELECTRONICALLY MONITORED AND CONNECTED TO BUILDING AUTOMATION SYSTEM. DOMESTIC WATER SUB-METER SHALL BE INSTALLED MOST NEAR THE MAIN WATER SHUTOFF PRIOR TO ANY TAPS TO PREVENT FUTURE UNMETERED CONNECTIONS.

ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMER TP-2

GAS LOAD TABLE

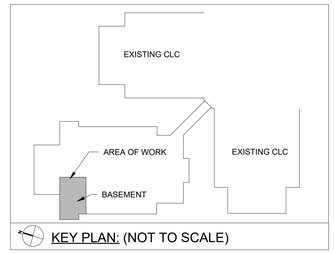
GAS: NATURAL
FITTING FACTOR: 1.2
LENGTH: 150'
DEVELOPED LENGTH: 180'
LENGTH USED PER SECTION 402 OF NCFGC: 200'

PRESSURE: 0.5" WC		PRESSURE: 2PSI	
SIZE (IN)	CAPACITY (MBH)	SIZE (IN)	CAPACITY (MBH)
1/2	21	1/2	192
3/4	43	3/4	401
1	82	1	717
1-1/4	168	1-1/4	1,470
1-1/2	251	1-1/2	2,210
2	484	2	4,250
2-1/2	771	2-1/2	6,770
3	1,360	3	12,000
4	2,780	4	24,400

NOTE: ALL NG PIPING SIZED FOR 2PSI.

GAS LOAD SUMMARY

KITCHEN RANGE:	278MBH
GWH-1:	150MBH
GWH-2:	150MBH
TOTAL:	578MBH



GRAPHIC SCALE
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(in Feet)
1 inch = 4 ft.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON

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STAMP Gregory A. Turner

GEORGIA REGISTERED No. PE023810 PROFESSIONAL ENGINEER GREGORY A. TURNER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - BASEMENT FLOOR PLANS
Approved:
Phase: BID DOCUMENTS
FULLY SPRINKLERED
Project Title: CONSTRUCT TDVV CLC 12 BEDS
Location: 180 MARTIN DR, CARROLLTON, GA 30117
Issue Date: 12/16/2024
Checked: GAT
Drawn: DAS
Project Number: 508-349
Building Number:
Drawing Number: PP100

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC\4792 - CE Central Model.rvt
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VA FORM 08 - 6231

DRAINAGE AND WATER SUPPLY CALCULATIONS

FIXTURE TYPE	QUANTITY	WASTE FIXTURE UNITS		HOT WATER FIXTURE UNITS		COLD WATER FIXTURE UNITS		TOTAL WATER FIXTURE UNITS	
		PER UNIT	TOTAL	PER UNIT	TOTAL	PER UNIT	TOTAL	PER UNIT	TOTAL
WATER CLOSET - FLUSH VALVE	15	4.0	60	---	---	6.0	90	6.0	90
LAVATORY	14	1.0	14	0.5	7	0.5	7	0.7	9.8
SINKS	5	2.0	10	1.0	5	1.0	5	1.4	7
MOP BASIN	1	2.0	2	2.25	2.25	2.25	2.25	3.0	3
DRINKING FOUNTAIN	0	.5	0	---	0	.25	0	.25	0
SHOWERS	12	2.0	24	1.0	12	1.0	12	1.4	16.8
URINAL - FLUSH VALVE	1	2.0	2	---	0	5.0	5	5.0	5.0
WASHER MACHINE	1	2.0	2.0	1.0	1	1.0	1	1.4	1.4
TOTAL			114		27.25		122.25		133

FOODSERVICE EQUIPMENT PLUMBING SANITARY WASTE CONNECTION SCHEDULE

SYMBOL	DESCRIPTION	WASTE DISCHARGE PIPE SIZE	WASTE CONNECITON	REMARKS
(2)	THREE COMPARTMENT SINK	2"	FD-S	DRAIN TO FLOOR SINK FD-S.
(2.1)	SPLASH MOUNT FAUCET	-	-	
(4)	UNDERCOUNTER DISHMACHINE	1-1/2"	FD-S	DRAIN TO FLOOR SINK FD-S.
(5)	WALL MOUNT HAND SINK	1-1/2"	DIRECT	
(6)	WORKTABLE WITH 2 COMP PREP SINK	2"	FD-S	DRAIN TO FLOOR SINK FD-S.
(6.1)	DECK MOUNT FAUCET	-	-	
(12)	RANGE	-	-	
(13)	COMBINATION OVEN	2"	FD-S	DRAIN TO FLOOR SINK FD-S.

PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-INS AND FINAL CONNECTIONS TO VENDOR PROVIDED FOODSERVICE EQUIPMENT.

GENERAL NOTES

A. THE PLUMBING CONTRACTOR SHALL VERIFY AND COORDINATE THE INSTALLATION OF THE PLUMBING SYSTEMS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID CONFLICTS ABOVE CEILING AND BELOW FLOORS.

B. THE PLUMBING CONTRACTOR SHALL VERIFY ALL WASTE AND WATER REQUIREMENTS AND LOCATIONS FOR CONNECTING OWNERS EQUIPMENT PRIOR TO INSTALLATION. PROVIDE ALL NECESSARY MATERIALS AND COMPONENTS. VERIFY AND INSTALL PER MANUFACTURES WRITTEN SPECIFICATIONS, INSTRUCTIONS, AND ALL LOCAL AND NATIONAL CODES.

C. PLUMBING CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS ALL FIRE OR SMOKE RATED BARRIERS, WALLS, OR PARTITIONS, AND ALL LOCAL NATIONAL CODES.

D. PLUMBING CONTRACTOR SHALL NOT INSTALL SHUT-OFF VALVES ABOVE WHERE ANY SHEET ROCK CEILINGS ARE TO BE INSTALLED. WHERE VALVES DO OCCUR, A 2 'X2' ACCESS PANEL SHALL BE INSTALLED. ARCHITECT SHALL BE NOTIFIED BEFORE PANEL IS INSTALLED.

E. THE PLUMBING CONTRACTOR SHALL VERIFY AND COORDINATE ALL PIPING INVERTS WITH EXISTING CONDITIONS PRIOR TO NEW INSTALLATIONS. PLUMBING DOCUMENTS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INCLUDE EVERY ASPECT OF THE REQUIRED WORK. PLUMBING CONTRACTOR SHALL ENSURE A COMPLETE AND WORKING SYSTEM IS INSTALLED.

F. FIELD VERIFY EXACT LOCATION AND SIZE OF WASTE, VENT, STORM, AND WATER PIPING RISERS PRIOR TO ANY DEMOLITION AND RELOCATION. CONTACT ENGINEER ONCE PIPING SYSTEMS HAVE BEEN UNCOVERED/EXPOSED.

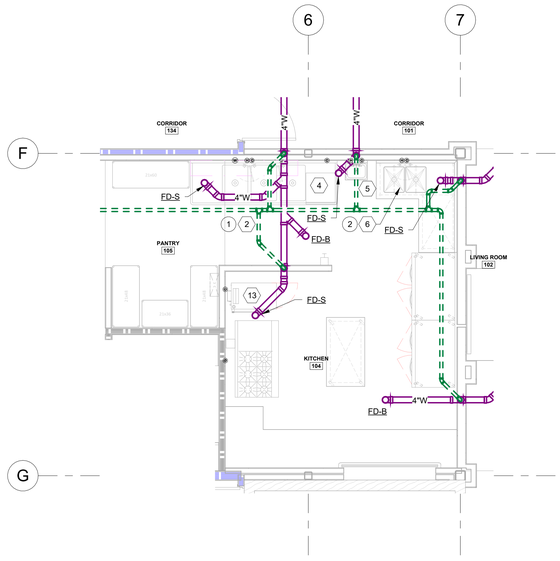
G. ALL DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR TO PROVIDE COORDINATION DOCUMENTS IN ACCORDANCE WITH THE SPECIFICATIONS. ADDITIONAL TRANSITIONS REQUIRED DUE TO FIELD CONDITIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

H. MECHANICAL PRESS-CONNECT FITTINGS FOR COPPER PIPE AND TUBE **ARE PROHIBITED**.

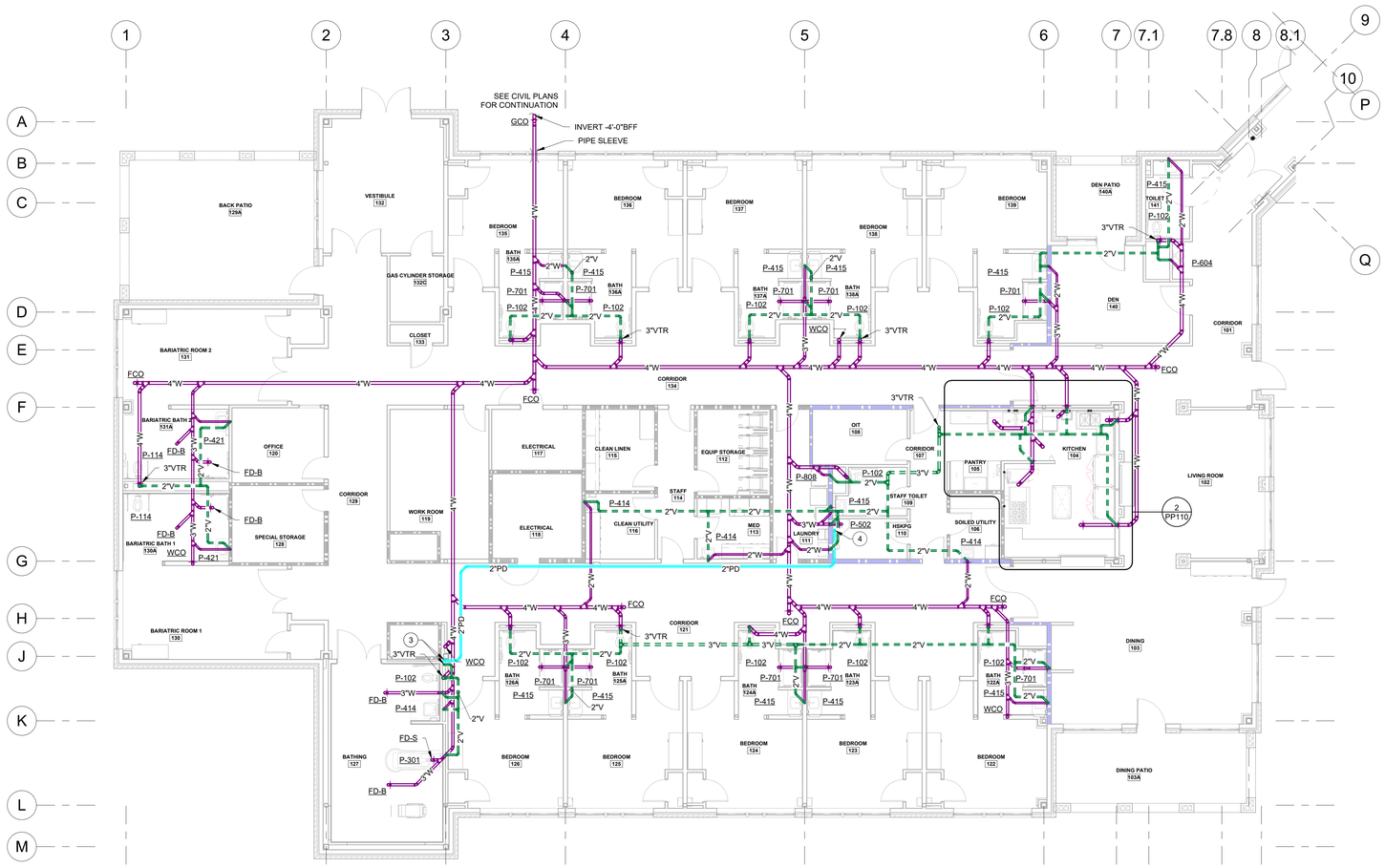
NEW WORK KEYED NOTES

1. 2"W PIPING SERVING DISHROOM THREE COMPARTMENT SINK SHALL BE ROUTED ABOVE GROUND TO GREASE INTERCEPTOR GI-1. DISCHARGE PIPING FROM GREASE INTERCEPTOR GI-1 SHALL BE ROUTED TO FLOOR SINK FD-S, PROVIDE WITH AIR GAP.
2. 2"W PIPING SERVING PREP TWO COMPARTMENT SINK SHALL BE ROUTED ABOVE GROUND TO GREASE INTERCEPTOR GI-2. DISCHARGE PIPING FROM GREASE INTERCEPTOR GI-2 SHALL BE ROUTED TO FLOOR SINK FD-S, PROVIDE WITH AIR GAP.
3. 2"V AND 2"PD PIPING UP FROM SP-1 LOCATED IN MECHANICAL ROOM B100, SEE SHEET PP100 FOR CONTINUATION. 2"PD PIPING SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT DOWN TO MOP SINK BASIN.
4. 2"PD DOWN TO DISCHARGE INTO MOP SINK, PROVIDE WITH AIR GAP.

ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMER TP-2.



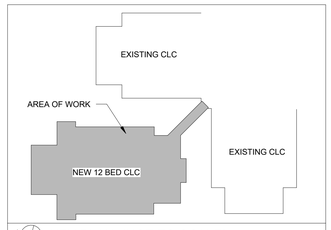
2 PLUMBING - FIRST FLOOR - SANITARY PLAN - KITCHEN 104
1/4" = 1'-0"



1 PLUMBING - FIRST FLOOR - SANITARY PLAN
1/8" = 1'-0"

WALL RATING LEGEND

- 2 HR FIRE RATED
- 1 HR FIRE RATED
- 1 HR SMOKE BARRIER
- SMOKE PARTITION



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE

8 0 4 8 16 32

(in Feet)

1 inch = 8 ft.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON / CHARLOTTE ENGINEERS

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STAMP Gregory A. Turner — GEORGIA REGISTERED No. PE033510 PROFESSIONAL ENGINEER GREGORY A. TURNER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - FIRST FLOOR - SANITARY PLAN

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: GAT | Drawn: DAS

Project Number: 508-349

Building Number:

Drawing Number: PP110

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DRAINAGE AND WATER SUPPLY CALCULATIONS

FIXTURE TYPE	QUANTITY	WASTE FIXTURE UNITS		HOT WATER FIXTURE UNITS		COLD WATER FIXTURE UNITS		TOTAL WATER FIXTURE UNITS	
		PER UNIT	TOTAL	PER UNIT	TOTAL	PER UNIT	TOTAL	PER UNIT	TOTAL
WATER CLOSET - FLUSH VALVE	15	4.0	60	---	---	6.0	90	6.0	90
LAVATORY	14	1.0	14	0.5	7	0.5	7	0.7	9.8
SINKS	5	2.0	10	1.0	5	1.0	5	1.4	7
MOP BASIN	1	2.0	2	2.25	2.25	2.25	2.25	3.0	3
DRINKING FOUNTAIN	0	.5	0	---	0	.25	0	.25	0
SHOWERS	12	2.0	24	1.0	12	1.0	12	1.4	16.8
URINAL - FLUSH VALVE	1	2.0	2	---	0	5.0	5	5.0	5.0
WASHER MACHINE	1	2.0	2.0	1.0	1	1.0	1	1.4	1.4
TOTAL			114		27.25		122.25		133

FOODSERVICE EQUIPMENT PLUMBING
DOMESTIC WATER CONNECTION SCHEDULE

SYMBOL	DESCRIPTION	HW PIPE SIZE	CW PIPE SIZE	ROUGH-IN HEIGHT	GAS PIPE SIZE	GAS MBTU	GAS ROUGH IN HEIGHT	REMARKS
2	THREE COMPARTMENT SINK	-	-	-	-	-	-	
2.1	SPLASH MOUNT FAUCET	3/4"	3/4"	14" AFF	-	-	-	
4	UNDERCOUNTER DISHMACHINE	-	3/4"	14" AFF	-	-	-	
5	WALL MOUNT HAND SINK	1/2"	1/2"	24" AFF	-	-	-	
6	WORKTABLE WITH 2 COMP PREP SINK	-	-	-	-	-	-	
6.1	DECK MOUNT FAUCET	1/2"	1/2"	14" AFF	-	-	-	
12	RANGE	-	-	-	1"	268	36" AFF	
13	COMBINATION OVEN	-	3/4"	36" AFF	-	-	-	COMBINATION OVEN HAS TWO CW INLETS. DIVIDE CW USING MANIFOLD AND EXTEND ONE LINE THRU WATER FILTER.

PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-INS AND FINAL CONNECTIONS TO VENDOR PROVIDED FOODSERVICE EQUIPMENT.

GENERAL NOTES

A. THE PLUMBING CONTRACTOR SHALL VERIFY AND COORDINATE THE INSTALLATION OF THE PLUMBING SYSTEMS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID CONFLICTS ABOVE CEILING AND BELOW FLOORS.

B. THE PLUMBING CONTRACTOR SHALL VERIFY ALL WASTE AND WATER REQUIREMENTS AND LOCATIONS FOR CONNECTING OWNERS EQUIPMENT PRIOR TO INSTALLATION. PROVIDE ALL NECESSARY MATERIALS AND COMPONENTS. VERIFY AND INSTALL PER MANUFACTURES WRITTEN SPECIFICATIONS, INSTRUCTIONS, AND ALL LOCAL AND NATIONAL CODES.

C. PLUMBING CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS ALL FIRE OR SMOKE RATED BARRIERS, WALLS, OR PARTITIONS, AND ALL LOCAL NATIONAL CODES.

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F. FIELD VERIFY EXACT LOCATION AND SIZE OF WASTE, VENT, STORM, AND WATER PIPING RISERS PRIOR TO ANY DEMOLITION AND RELOCATION. CONTACT ENGINEER ONCE PIPING SYSTEMS HAVE BEEN UNCOVERED/EXPOSED.

G. ALL DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR TO PROVIDE COORDINATION DOCUMENTS IN ACCORDANCE WITH THE SPECIFICATIONS. ADDITIONAL TRANSITIONS REQUIRED DUE TO FIELD CONDITIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

H. MECHANICAL PRESS-CONNECT FITTINGS FOR COPPER PIPE AND TUBE **ARE PROHIBITED**.

NEW WORK KEYED NOTES

1. BALANCING VALVE ASSEMBLY, SEE DETAIL 4/P002.
2. 2-1/2"CW, 1-1/2"HW, 3/4"CW, AND 3/4"NG UP FROM BASEMENT TO ABOVE CEILING, SEE SHEET PP100 FOR CONTINUATION.
3. PROVIDE WITH GAS PRESSURE REGULATOR BEFORE CONNECTION TO KITCHEN EQUIPMENT, SEE DETAIL 18/P002 FOR TYPICAL GAS CONNECTION.

GAS LOAD TABLE

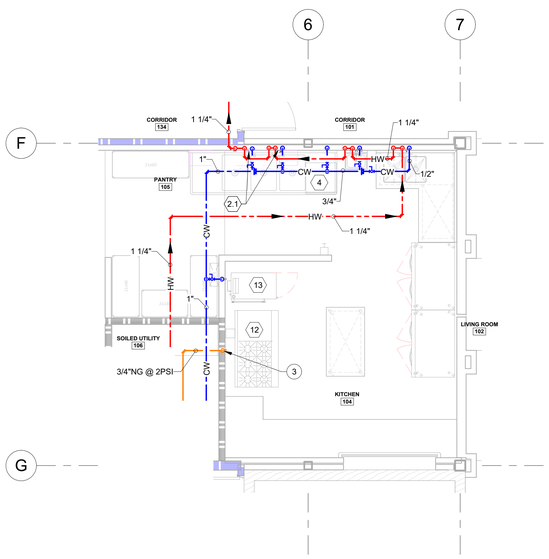
GAS: NATURAL
FITTING FACTOR: 1.2
LENGTH: 150'
DEVELOPED LENGTH: 180'
LENGTH USED PER SECTION 402 OF NCFGC: 200'

PRESSURE: 0.5" WC		PRESSURE: 2PSI	
SIZE (IN)	CAPACITY (MBH)	SIZE (IN)	CAPACITY (MBH)
1/2	21	1/2	192
3/4	43	3/4	401
1	82	1	717
1-1/4	168	1-1/4	1,470
1-1/2	251	1-1/2	2,210
2	484	2	4,250
2-1/2	771	2-1/2	6,770
3	1,360	3	12,000
4	2,780	4	24,400

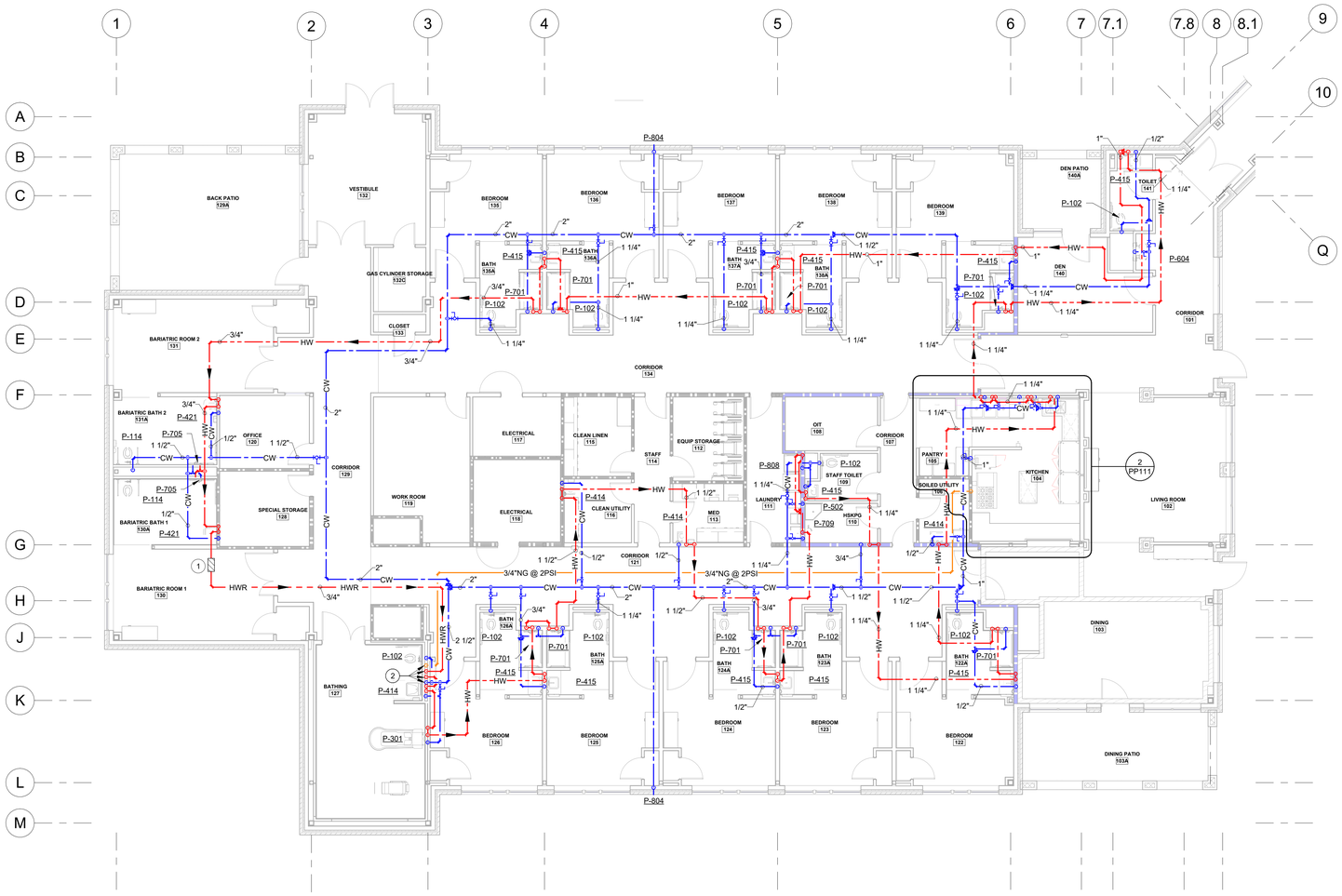
NOTE: ALL NG PIPING SIZED FOR 2PSI.

GAS LOAD SUMMARY

KITCHEN RANGE:	278MBH
GWH-1:	150MBH
GWH-2:	150MBH
TOTAL:	578MBH



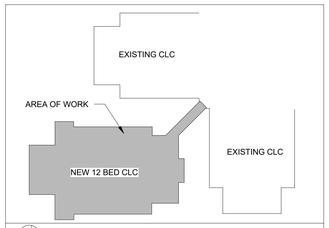
2 PLUMBING - FIRST FLOOR - DOMESTIC PLAN - KITCHEN 104
1/4" = 1'-0"



1 PLUMBING - LEVEL 01 - NEW WORK - DOMESTIC
1/8" = 1'-0"

WALL RATING LEGEND

- 2 HR FIRE RATED
- 1 HR FIRE RATED
- 1 HR SMOKE BARRIER
- SMOKE PARTITION



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE
8 0 4 8 16 32
(in Feet)
1 inch = 8 ft.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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CHARLOTTE, NC 28212

STAMP Gregory A. Turner — GEORGIA REGISTERED No. PE033510 PROFESSIONAL ENGINEER GREGORY A. TURNER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - FIRST FLOOR - DOMESTIC PLAN
Approved:
Phase: BID DOCUMENTS
FULLY SPRINKLERED
Project Title: CONSTRUCT TDVV CLC 12 BEDS
Location: 180 MARTIN DR, CARROLLTON, GA 30117
Issue Date: 12/16/2024
Checked: GAT
Drawn: DAS
Project Number: 508-349
Building Number:
Drawing Number: PP111

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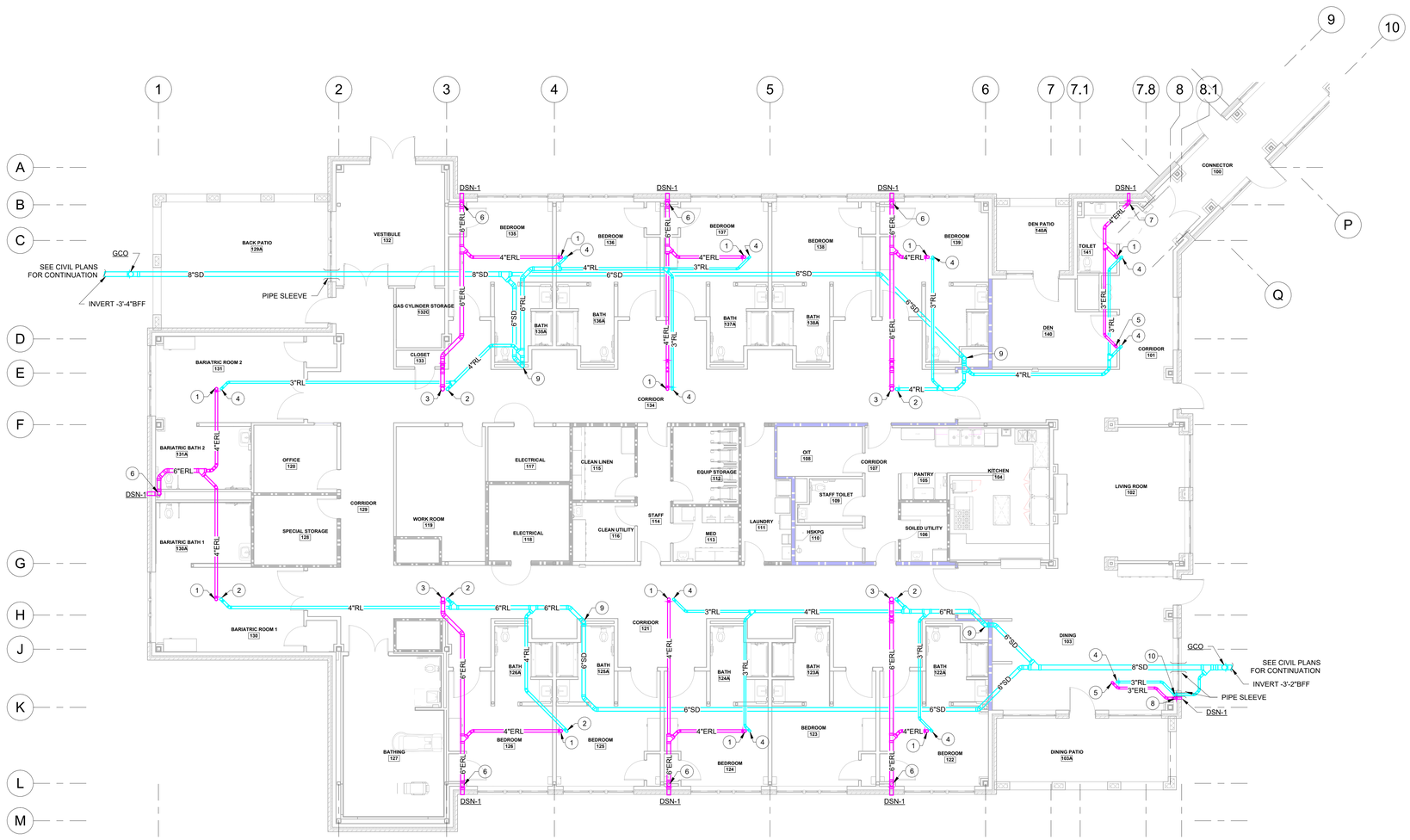

1 PLUMBING - FIRST FLOOR - STORM DRAINAGE PLAN
1/8" = 1'-0"

GENERAL NOTES

A. THE PLUMBING CONTRACTOR SHALL VERIFY AND COORDINATE THE INSTALLATION OF THE PLUMBING SYSTEMS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID CONFLICTS ABOVE CEILING AND BELOW FLOORS.

B. THE PLUMBING CONTRACTOR SHALL VERIFY ALL WASTE AND WATER REQUIREMENTS AND LOCATIONS FOR CONNECTING OWNERS EQUIPMENT PRIOR TO INSTALLATION. PROVIDE ALL NECESSARY MATERIALS AND COMPONENTS. VERIFY AND INSTALL PER MANUFACTURES WRITTEN SPECIFICATIONS, INSTRUCTIONS, AND ALL LOCAL AND NATIONAL CODES.

C. PLUMBING CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS ALL FIRE OR SMOKE RATED BARRIERS, WALLS, OR PARTITIONS, AND ALL LOCAL NATIONAL CODES.

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F. FIELD VERIFY EXACT LOCATION AND SIZE OF WASTE, VENT, STORM, AND WATER PIPING RISERS PRIOR TO ANY DEMOLITION AND RELOCATION. CONTACT ENGINEER ONCE PIPING SYSTEMS HAVE BEEN UNCOVERED/EXPOSED.

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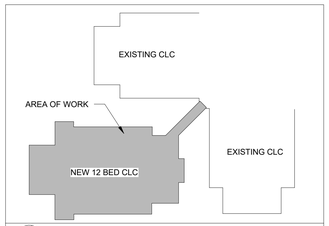
H. MECHANICAL PRESS-CONNECT FITTINGS FOR COPPER PIPE AND TUBE **ARE PROHIBITED**.

NEW WORK KEYED NOTES

1. 4"ERL PIPING UP TO RD-B.
2. 4"RL PIPING UP TO RD-A.
3. 6"ERL PIPING UP TO RD-B.
4. 3"RL PIPING UP TO RD-A.
5. 3"ERL PIPING UP TO RD-B.
6. 6"ERL PIPING DOWN TO DSN-1 DOWNSPOUT NOZZLE.
7. 4"ERL PIPING DOWN TO DSN-1 DOWNSPOUT NOZZLE.
8. 3"ERL PIPING DOWN TO DSN-1 DOWNSPOUT NOZZLE.
9. 6"RL PIPING DOWN TO 6"SD PIPING BELOW GROUND, PROVIDE CLEANOUT AT BOTTOM OF RISER.
10. 3"RL PIPING DOWN TO 3"SD PIPING BELOW GROUND, PROVIDE CLEANOUT AT BOTTOM OF RISER.

WALL RATING LEGEND

- 2 HR FIRE RATED
- 1 HR FIRE RATED
- 1 HR SMOKE BARRIER
- SMOKE PARTITION



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE
8 0 4 8 16 32
(in Feet)
1 inch = 8 ft.

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	PLUMBING - FIRST FLOOR - STORM DRAINAGE PLAN
Phase	BID DOCUMENTS
Approved:	
Project Title	CONSTRUCT TDVV CLC 12 BEDS
Project Number	508-349
Building Number	
Location	180 MARTIN DR, CARROLLTON, GA 30117
Drawing Number	PP112
Issue Date	12/16/2024
Checked	GAT
Drawn	DAS

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1 PLUMBING - LOWER ROOF PLAN
1/8" = 1'-0"

GENERAL NOTES

A. THE PLUMBING CONTRACTOR SHALL VERIFY AND COORDINATE THE INSTALLATION OF THE PLUMBING SYSTEMS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID CONFLICTS ABOVE CEILING AND BELOW FLOORS.

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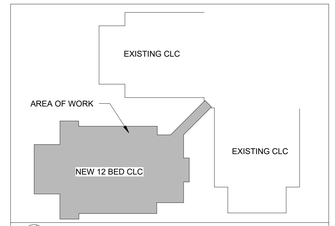
H. MECHANICAL PRESS-CONNECT FITTINGS FOR COPPER PIPE AND TUBE **ARE PROHIBITED**.

ALTERNATE NOTE:

C REFER TO DEDUCT PARTIAL ROOF PLANS IN THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL ROOF DRAINS IN THIS AREA IF ALTERNATE C IS ACCEPTED.

D REFER TO DEDUCT PARTIAL ROOF PLANS IN THE ARCHITECTURAL DRAWINGS FOR REVISED ROOF DRAIN LOCATIONS IN THIS AREA IF ALTERNATE D IS ACCEPTED.



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE
4 0 2 4 8 16
(in Feet)
1 inch = 4 ft.

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - LOWER ROOF PLAN

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: GAT | Drawn: DAS

Project Number: 508-349

Building Number:

Drawing Number: PP120

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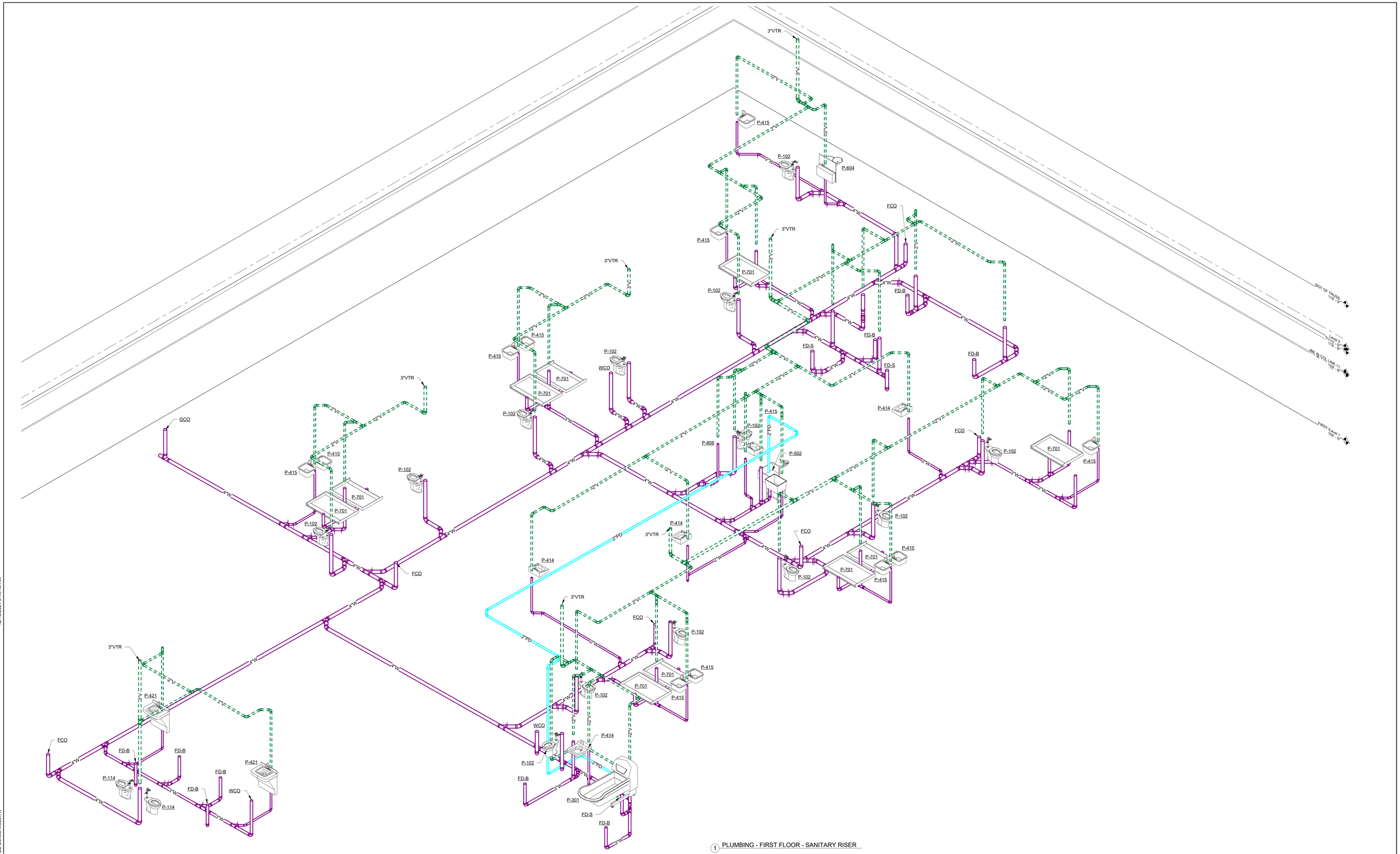

1 PLUMBING - FIRST FLOOR - SANITARY RISER

Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - FIRST FLOOR - SANITARY RISER

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024

Checked: GAT

Drawn: DAS

Project Number: 508-349

Building Number:

Drawing Number: PP130

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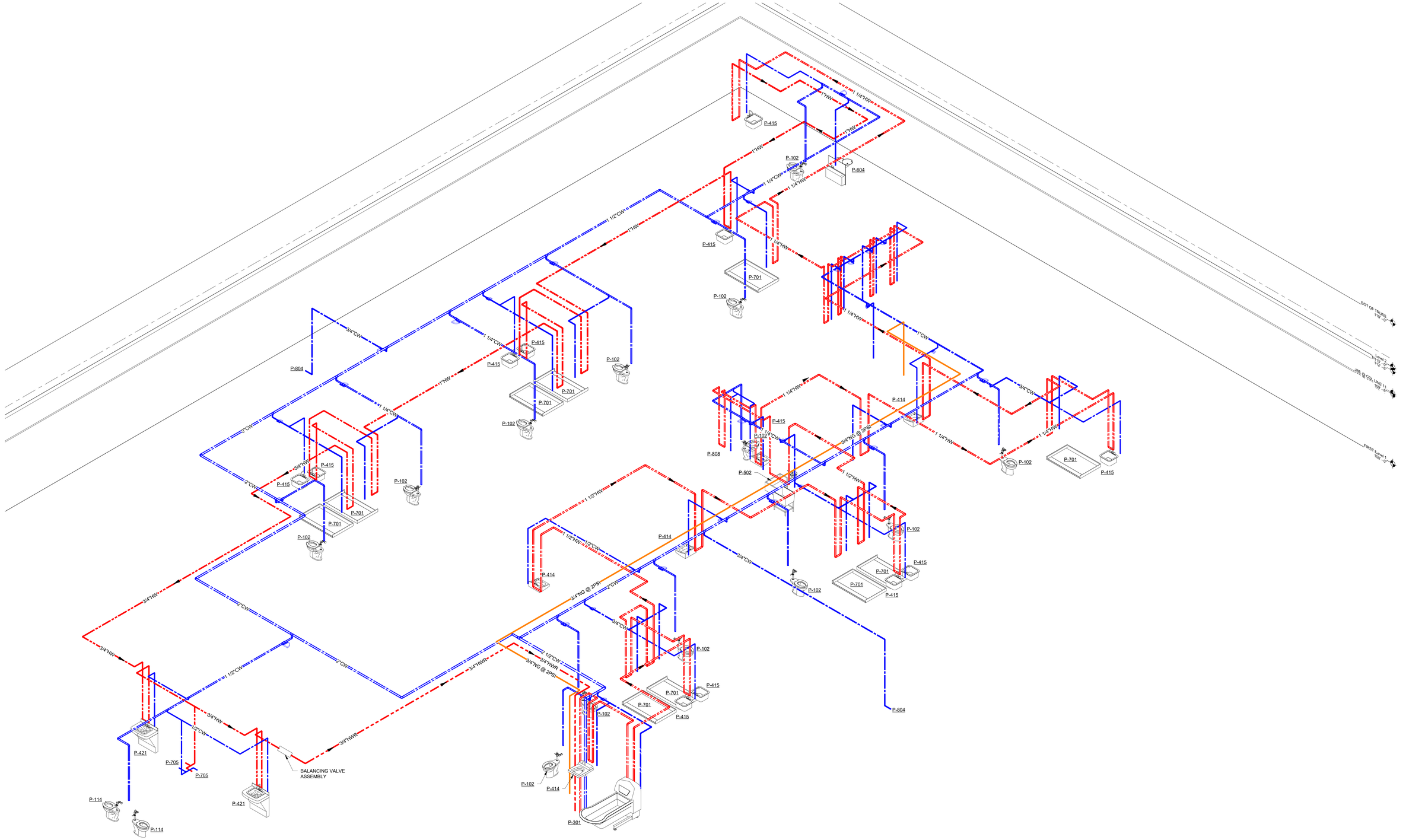

1 PLUMBING - FIRST FLOOR - DOMESTIC RISER

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VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - FIRST FLOOR - DOMESTIC RISER

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024

Checked: GAT

Drawn: DAS

Project Number: 508-349

Building Number:

Drawing Number: PP131

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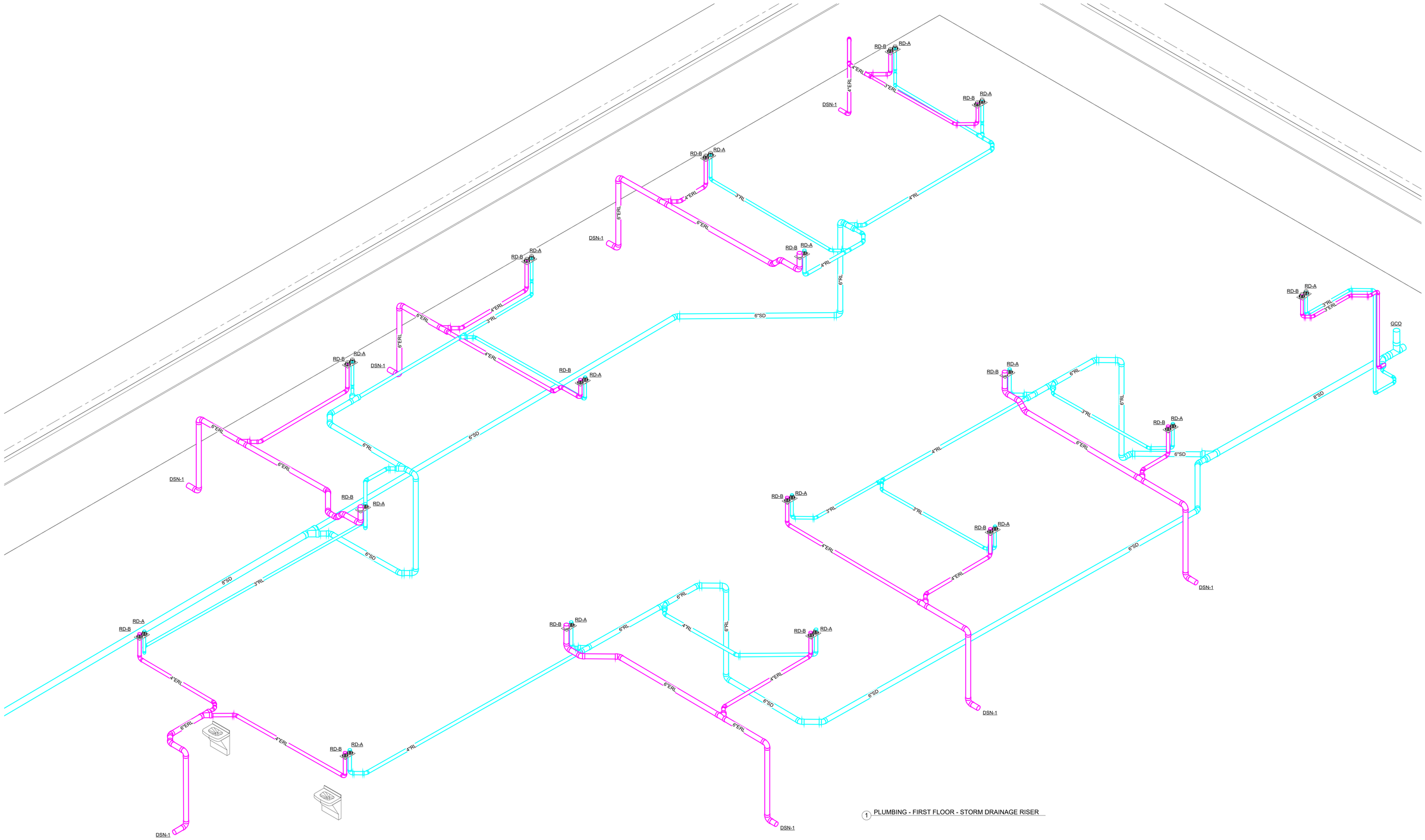

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Drawing Title: PLUMBING - FIRST FLOOR - STORM DRAINAGE RISER

Approved:

Phase: BID DOCUMENTS

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Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: GAT | Drawn: DAS

Project Number: 508-349

Building Number:

Drawing Number: PP132

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MECHANICAL SYMBOLS

(NOTE: SYMBOLS WITHIN THIS SCHEDULE ARE REPRESENTATIVE OF THOSE TYPICALLY FOUND ON THE DRAWINGS. ALL SYMBOLS MAY NOT APPEAR ON THIS SET OF DRAWINGS.)

VALVES

- ANGLE VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- ISOLATION VALVE
- GLOBE VALVE
- PLUG VALVE WITH PRESSURE GAUGE CONNECTION ONLY
- PRESSURE INDEPENDANT CONTROL VALVE
- AUTOMATIC CONTROL VALVE
- THREE WAY VALVE
- TRIPLE DUTY VALVE

ACCESSORIES

- ANCHOR POINT
- CONCENTRIC REDUCER
- DIRECTION OF FLOW
- DIRECTION OF SLOPE
- DRAIN POINT OF PIPE
- ECCENTRIC REDUCER
- FLOW CONTROL DEVICE
- AUTOMATIC FLOW LIMITING DEVICE (SEE SPECS)
- FLOW SWITCH
- MEDIUM PRESSURE TRAP ASSEMBLY
- LOW PRESSURE TRAP ASSEMBLY
- MANUAL AIR VENT POINT ON PIPE LINE PRESSURE RELIEF VALVE
- PIPE DOWN
- PIPE UP
- PRESSURE AND TEMP. TEST PORT
- PRESSURE GAGE WITH COCK
- REDUCED PRESSURE BACKFLOW PREVENTER
- STRAINER
- THERMOMETER WITH WELL
- THERMOMETER WELL AND CAP ONLY
- UNION
- FLOW METER (FM)

MISCELLANEOUS

- CONNECT TO EXISTING SYMBOL
- CFM — DIRECTION OF AIR FLOW ARROW AND CFM
- 12/12 — DUCT SYMBOL: FLAT OVAL
- 12Ø — DUCT SYMBOL: ROUND
- 12x10 — DUCT SYMBOL: RECTANGULAR
- R — REFRIGERANT SENSOR WITH BACKBOX AND COVER PLATE
- ESS — EMERGENCY STOP SWITCH
- FLOOR DRAIN
- H — HUMIDISTAT
- T — THERMOSTAT
- 1 / M4.1 — SECTION NUMBER; DRAWING NUMBER WHERE SECTION IS LOCATED
- 2 / M4 — DETAIL NUMBER; DRAWING NUMBER WHERE SHOWN

DUCTWORK

- CEILING EXHAUST GRILLE/ REGISTER (SEE SCH)
- SIDEWALL EXHAUST REGISTER (SEE SCH)
- CEILING RETURN GRILLE/ REGISTER (SEE SCH)
- SIDEWALL RETURN REGISTER (SEE SCH)
- CEILING SUPPLY DIFFUSER/ REGISTER (SEE SCH)
- SIDEWALL SUPPLY REGISTER (SEE SCH)
- DUCTWORK W/O DUCTLINER
- SQUARE TO ROUND/ OVAL TRANSITION
- CONICAL TAKEOFF
- MITERED TAKEOFF
- RECTANGULAR DUCT TRANSITION
- EXHAUST DUCT UP SUPPLY AND RETURN SIMILAR
- RETURN DUCT DOWN SUPPLY AND EXHAUST SIMILAR
- SUPPLY DUCT, UP THROUGH ROOF RETURN AND EXHAUST SIMILAR

EQUIPMENT

- HUMIDIFIER WITH ACCESS DOOR
- MANUAL DAMPER
- M — MOTOR OPERATED DAMPER WITH ACCESS DOOR
- FD — FIRE DAMPER WITH ACCESS DOOR
- SD — SMOKE DAMPER WITH ACCESS DOOR
- FSD ◆ — COMBINATION FIRE/SMOKE DAMPER WITH ACCESS DOOR
- DD — DUCT MOUNTED SMOKE DETECTOR WITH ACCESS DOOR
- AIR FLOW MONITORING STATION
- DUCT MOUNTED COIL (ELECTRIC)

PIPING

- D — DRAIN
- R — REFRIGERANT
- NEW PIPING
- NEW DUCTWORK
- NEW EQUIPMENT

MECHANICAL ABBREVIATIONS

∅	ROUND, DIAMETER OR PHASE
#	POUNDS OR NUMBER
ABV.CLG.	ABOVE CEILING
ACU-1	AIR CONDITIONING UNIT & TAG
AC/HR	AIR CHANGES PER HOUR
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFLD	AUTOMATIC FLOW LIMITING DEVICE
AFMS	AIR FLOW MONITORING STATION
AHU-1	AIR HANDLING UNIT & TAG
ALUM	ALUMINUM
AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION
ANSI	AMERICAN NATIONAL STANTDARDS INSTITUTE
AP	ANCHOR POINT
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AUTO	AUTOMATIC
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BHP	BOILER HORSEPOWER OR BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BV	BUTTERFLY VALVE
C	CONSTANT VOLUME
CC	COOLING COIL
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEAN OUT
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUATION
CONST	CONSTRUCTION
CONTR	CONTRACTOR
COORD	COORDINATE
COP	COEFFICIENT OF PERFORMANCE
CP-1	CONDENSATE PUMP & TAG
CTR	CENTER
CU	COPPER
CU-1	CONDENSING UNIT & TAG
CU.FT.	CUBIC FEET
CUH-1	CABINET UNIT HEATER & TAG
CU.YD.	CUBIC YARD
CW	COLD WATER (DOMESTIC)
Db	DRY BULB TEMPERATURE
DB	DECIBELS
DD	DUCT MOUNTED SMOKE DETECTOR
DEG(°)	DEGREE(S)
DN	DOWN
DP	DRAIN POINT
Dp	DEWPOINT TEMPERATURE
DPR	DAMPER
DTF	DOWN THRU FLOOR
DWG	DRAWING
DWV	DRAIN, WASTE, AND VENT
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EDH	ELECTRIC COIL DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EF-1	EXHAUST FAN & TAG
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
E or EX.	EXISTING
EXH	EXHAUST
F	FAHRENHEIT
F&T	FLOAT AND THERMOSTATIC
F.D.	FLOOR DRAIN
FACP	FIRE ALARM CONTROL PANEL
FC	FLOW CONTROLLER
FCU-1	FAN COIL UNIT & TAG
FCV	FLOW CONTROL VALVE
FD	FIRE DAMPER
FLEX	FLEX
FLG	FLANGE
FLR-FLR	FLOOR TO FLOOR HEIGHT
FO	FLAT OVAL
FOB	FLAT ON BOTTOM
FP	FIRE PROTECTI0N
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH/SENSOR
FSD	COMBINATION FIRE/SMOKE DAMPER
FSS	FUSED SAFETY SWITCH
FT	FEET
FV	FLOW VALVE
FVNR	FULL VOLTAGE, NON-REVERSING, MAGNETIC
GAL	GALLON(S)
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GP	GUIDE POINT
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HC	HUMIDITY CONTROLLER
HD	HEAT DETECTOR
HOA	HAND-OFF-AUTOMATIC
HORZ	HORIZONTAL
HP	HORSEPOWER
HR	HOUR
H'STAT	HUMIDISTAT
HTG	HEATING
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
H&V-1	HEATING AND VENTILATING UNIT & TAG
IB	INVERTED BUCKET
ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATED
INV	INVERT
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LB/HR	POUNDS PER HOUR
LF	LINEAR FEET
LWT	LEAVING WATER TEMPERATURE
LP	LOW PRESSURE
LSWER	LOW SIDE WALL EXHAUST REGISTER
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	BTUH x 1000
MC	MECHANICAL CONTRACTOR
MD	MANUAL DAMPER
MECH	MECHANICAL
MEZZ	MEZZANINE
MFG	MANUFACTURING
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MOD	MOTOR OPERATED DAMPER
MRS	MOTOR RATED SWITCH
MTD	MOUNTED
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO.	NUMBER
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
P.C.	PLUMBING CONTRACTOR
PL	PILOT LIGHT
PLBG	PLUMBING
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAGE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RA	RETURN AIR
RCP	REFLECTED CEILING PLAN
RECIRC	RECIRCULATING
RD	ROUND
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION
RH	RELATIVE HUMIDITY
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RVNR	REDUCED VOLTAGE, NON-REVERSING, MAGNETIC
SA	SUPPLY AIR
SCFM	STANDARD CUBIC FEET PER MINUTE
SCH	SCHEDULE
SD	SMOKE DAMPER
SECT	SECTION
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SR	SUPPLY REGISTER
S/S	STAINLESS STEEL
STL	STEEL
STM	STEAM
STRUCT	STRUCTURAL
SYM	SYMBOL OR SYMMETRICAL
SYS	SYSTEM
T/D	TRANSFER DUCT
TAB	TEST, ADJUST, BALANCE
THRU	THROUGH
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TOS	TOP OF STEEL
TS	TEMPERATURE SENSOR
T'STAT	THERMOSTAT
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VARIABLE VOLUME
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VLV	VALVE
VOL	VOLUME
VP	VENT POINT
VS	VARIABLE SPEED
VTR	VENT THRU ROOF
W/	WITH
W/O	WITHOUT
W	WATTS
Wb	WET BULB TEMPERATURE
WG	WATER GAGE
WP	WEATHER PROOF
YCO	YARD CLEAN OUT

NOT ALL ABBREVIATIONS SHOWN IN THIS LIST WERE UTILIZED FOR THIS PROJECT.

GENERAL PROJECT NOTES

A. ALL DUCT, PIPE, AND EQUIPMENT SHALL BE LATERALLY RESTRAINED TO COMPLY WITH STATE BUILDING CODE.

B. BEFORE FABRICATING ANY SHEET METAL DUCTWORK, COORDINATE LOCATION AND SIZE WITH SPRINKLER & PLUMBING PIPING, CONDUITS, LIGHT FIXTURES, STRUCTURAL, ETC. PLANS ARE SCHEMATIC AND ARE NOT SHOP DRAWINGS. SUBMIT DUCTWORK COORDINATION DRAWINGS, AS SPECIFIED.

C. BEFORE SUBMITTING SHOP DRAWINGS, COORDINATE VOLTAGES AVAILABLE FOR MECHANICAL EQUIPMENT AND PROVISION ALL STARTERS AND DISCONNECT SWITCHES WITH ELECTRICAL CONTRACTOR.

D. MECHANICAL CONTRACTOR SHALL MAKE PROVISIONS FOR PROVIDING A CONDENSATE DRAIN TRAP A MINIMUM OF 4" DEEP OR 1/2" PLUS THE STATIC PRESSURE OF THE UNIT SUPPLY FAN.

E. ALL EQUIPMENT SHALL BE U.L. LISTED.

F. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL MECHANICAL EQUIPMENT; PROVIDE DISCONNECTS, WIRING AND CONDUIT, INSTALL STARTERS, AND MOUNT AND WIRE VFD, UNLESS OTHERWISE NOTED.

G. FIRE AND SMOKE DAMPERS SHALL BE INSTALLED IN COMPLETE ACCORDANCE WITH THE MFR'S, U.L. LISTING AND INSTALLATION INSTRUCTIONS. FIRE AND SMOKE DAMPERS SHALL HAVE SPECIFIC U.L. LISTING FOR THE CONSTRUCTION IN WHICH THEY ARE INSTALLED.

H. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO ELIMINATE CONFLICT WITH OTHER TRADES. ANY WORK INSTALLED BY THIS CONTRACTOR THAT RESULTS IN CONFLICT, DUE TO LACK OF COORDINATION BETWEEN TRADES, SHALL BE CHANGED AS DIRECTED BY THE ARCHITECT/ENGINEER WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.

I. SMOKE DETECTORS SHALL BE FURNISHED BY FIRE ALARM CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. PROVIDE DUCT ACCESS DOOR AT EACH DETECTOR. INSTALL DETECTORS IN COMPLETE ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

J. COORDINATE HEIGHT OF ROOF CURBS AND ROOF SUPPORTS WITH ROOFING CONTRACTOR.

K. MECHANICAL CONTRACTOR SHALL COORDINATE ROUTING OF DUCTWORK TO ENSURE DUCTWORK DOES NOT PASS OVER ELECTRICAL PANELS.

L. THE DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED IS INTENDED FOR GENERAL REFERENCE ONLY.

M. ALL SHUTDOWNS SHALL BE COORDINATED AND APPROVED THROUGH THE OWNERS REPRESENTATIVE AND WILL REQUIRE ADVANCE NOTICE OF TWO WEEKS.THIS TIME LENGTH MAY BE LONGER OR SHORTER FOR SOME SHUTDOWNS AND SHALL BE AT THE OWNERS DISCRETION.

N. PROVIDE ESCUTCHEON PLATES WHERE DUCTS PENETRATE CEILINGS OR WALLS IN AREAS EXPOSED TO VIEW. ESCUTCHEONS FOR DUCTS SHALL BE CONSTRUCTED OF SAME MATERIAL AS DUCT. PIPE ESCUTCHEONS SHALL BE CHROME-PLATED BRASS.

O. PROVIDE REMOVABLE ACCESS DOORS AT ALL MOTOR OPERATED DAMPERS, FIRE DAMPERS, SMOKE DAMPERS, DUCT COILS, SMOKE DETECTORS, AND SIMILAR ITEMS REQUIRING MAINTENANCE OR ADJUSTMENT.

P. PROVIDE FIRE CAULKING OR OTHER APPROVED FIRESTOP SYSTEM AT ALL MECHANICAL PIPING PENETRATIONS OF RATED ASSEMBLY WITHIN THE LIMITS OF CONSTRUCTION (NEW AND EXISTING).

DEDUCT ALTERNATES

- A — **ALTERNATE A** - ELIMINATE SECONDARY ELECTRICAL FEED
- B — **ALTERNATE B** - ELIMINATE LANDSCAPING
- C — **ALTERNATE C** - ELIMINATE CLERESTORY AREAS
- D — **ALTERNATE D** - ELIMINATE CLERESTORY AREAS

NOTE: SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

MECHANICAL - DRAWING INDEX

Sheet Number	Sheet Name
M001	MECHANICAL - SYMBOLS, NOTES AND DRAWING INDEX
M002	MECHANICAL - DETAILS
M003	MECHANICAL - SCHEDULES
M004	MECHANICAL - AHU SCHEDULES
M005	MECHANICAL - CONTROLS SCHEMATICS AND SEQUENCE OF OPERATIONS
MH100	MECHANICAL - BASEMENT FLOOR - DUCTWORK PLAN
MH110	MECHANICAL - FIRST FLOOR - DUCTWORK PLAN
MH120	MECHANICAL - LOWER ROOF PLAN
MP100	MECHANICAL - BASEMENT FLOOR - PIPING PLAN
MP110	MECHANICAL - FIRST FLOOR - PIPING PLAN

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - SYMBOLS, NOTES AND DRAWING INDEX

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Project Number: 508-349

Building Number:

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024

Checked: GAT

Drawn: CAS

Drawing Number: M001

Autodesk Docs://22.9003 - VA Atlanta Tinka Davis CLC/47762 - CE Central Model.rvt

12/16/2024 9:47:57 AM

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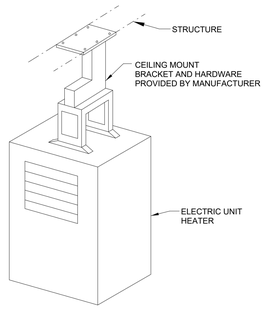
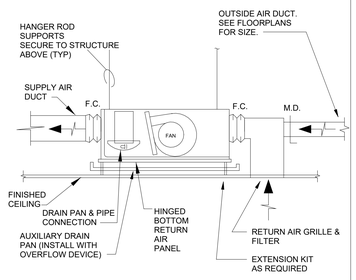
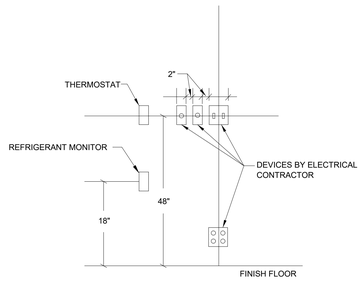


ELECTRIC UNIT HEATER MOUNTING DETAIL NTS 16



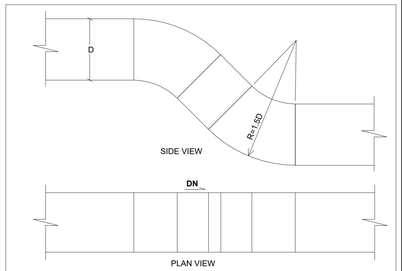
NOTES:
1. INSTALL & CONNECT REFRIGERANT & CONDENSATE PIPING PER MANUFACTURER'S INSTRUCTIONS.
2. UNIT SHALL BE PROVIDED WITH CONDENSATE OVERFLOW CONTROL DEVICES.

CONCEALED HORIZONTAL FAN COIL UNIT NTS 12



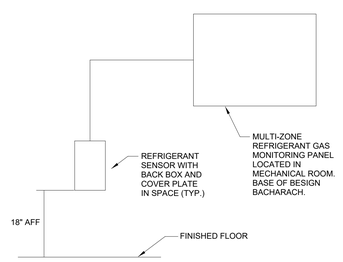
NOTES:
1. PROPERLY COORDINATE DEVICE LOCATION TO ALIGN VERTICALLY.

THERMOSTAT ALIGNMENT NTS 8

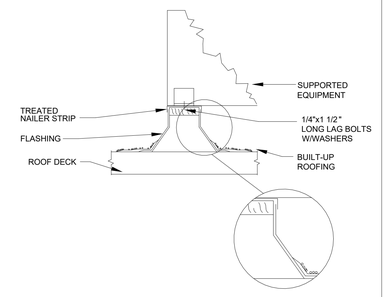


NOTES:
1. CHANGES IN DUCTWORK ELEVATION SHALL BE ACCOMPLISHED BY UTILIZING RADIUS ELBOW TRANSITIONS EQUAL TO NO LESS THAN R=1.5D. IN ORDER TO MINIMIZE DUCT STATIC PRESSURE LOSSES.
2. ELEVATION TRANSITION ARROW INDICATING UP OR DOWN (DN) IS SHOWN WITH RESPECT TO AIRFLOW DIRECTION.

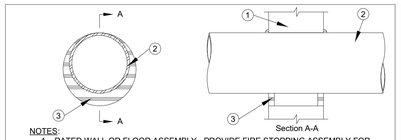
ELEVATION CHANGE - OGEE TRANSITION DETAIL NTS 4



REFRIGERANT MONITORING DETAIL NTS 15



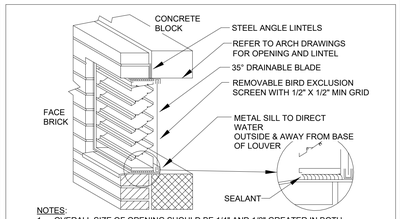
EQUIPMENT SUPPORT ON ROOF NTS 11



NOTES:
1. RATED WALL OR FLOOR ASSEMBLY - PROVIDE FIRE STOPPING ASSEMBLY FOR PARTITION TYPE & RATING ENCOUNTERED.
2. THROUGH PENETRATION (INSULATED OR BARE DEPENDING ON SERVICE) - PROVIDE FIRE STOPPING ASSEMBLY FOR SIZE & MATERIAL OF THROUGH PENETRATION UTILIZED.
3. FIRE STOPPING MATERIAL - PROVIDE FIRE STOPPING MATERIAL FOR WALL ASSEMBLY & THROUGH PENETRATION MATERIAL ENCOUNTERED. FILL VOIDS OR CAVITY ACCORDING TO THE REQUIREMENTS OF THE FIRE STOPPING SYSTEM UTILIZED.

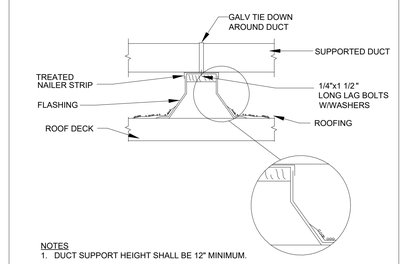
ALL RATED WALLS, PARTITIONS OR FLOORS SHALL BE PROVIDED WITH A UL LISTED FIRE STOP SYSTEM. THE SYSTEM UTILIZED SHALL MATCH THE SEPARATION PENETRATED AND THE THROUGH PENETRATION MATERIAL. DETAILS FOR THE INSTALLATION OF SYSTEM TYPE UTILIZED SHALL BE AVAILABLE AT THE PROJECT SITE FOR THE DURATION OF CONSTRUCTION AND SHALL BE PROVIDED TO THE BUILDING OWNER AT THE PROJECT COMPLETION.
PROVIDE WALL OR FLOOR LABELS INDICATING THE SYSTEM MANUFACTURER AND UL LISTED ASSEMBLY NUMBER AT EACH LOCATION WHERE THE FIRE STOPPING SYSTEM IS INSTALLED.

THROUGH PENETRATION FIRESTOP SYSTEM (PROVIDE UL LISTED SYSTEM) NTS 7



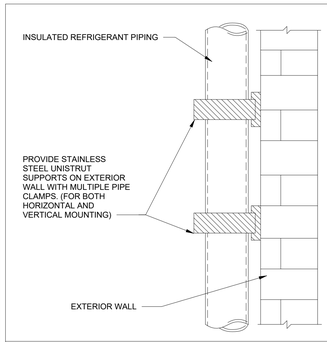
NOTES:
1. OVERALL SIZE OF OPENING SHOULD BE 1/4" AND 1/2" GREATER IN BOTH
2. MAX LOUVER WIDTH < 5FT, USE MULLION CONNECTED SECTIONS FOR GREATER WIDTHS
3. CAULK AND SEAL AROUND PERIMETER OF LOUVER SECTION AT WALL
4. PROVIDE ALUMINUM OR GALV EXPANDED BIRD EXCLUSION SCREEN ON INSIDE (OR OUTSIDE) OF LOUVER. (MIN FREE AREA 80% OF GROSS AREA) ATTACH TO OUTSIDE IF BLADE SEPARATION IS > 2 1/2".
5. CONSTRUCT EXTRUDED LOUVER OF NON-FERROUS CORROSION RESISTANT MATERIAL AND SECURE WITH SS OR ALUMINUM FASTENERS

STATIONARY LOUVER IN MASONRY WALL NTS 3

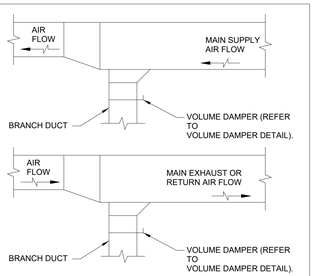


NOTES
1. DUCT SUPPORT HEIGHT SHALL BE 12" MINIMUM.

DUCT SUPPORT ON ROOF NTS 18

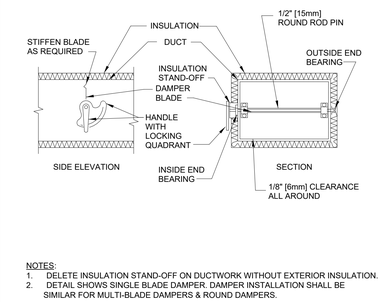


EXTERIOR REFRIGERANT PIPING DETAIL NTS 14



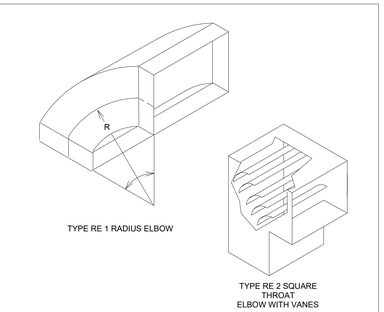
NOTE:
ALL BRANCH TAKEOFFS SHALL BE 45°, CONICAL OR BELLMOUTH TYPE.

BRANCH DUCTWORK TAKEOFFS NTS 10

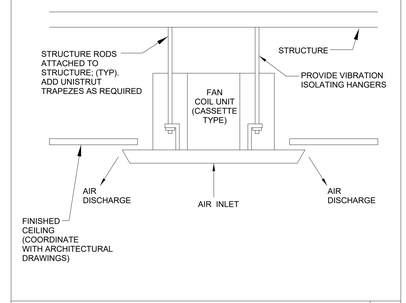


NOTES:
1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

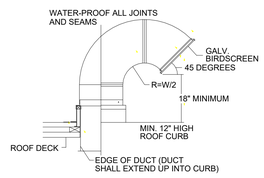
VOLUME DAMPER DETAIL NTS 6



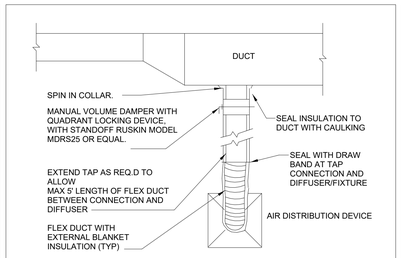
RECTANGULAR SHEETMETAL ELBOWS NTS 2



FAN COIL UNIT (CASSETTE TYPE) MOUNTING DETAIL NTS 17

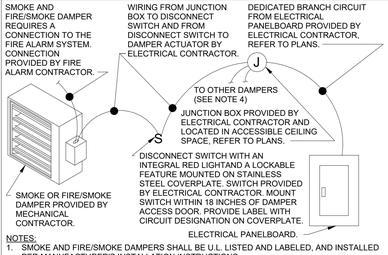


GOOSENECK DETAIL NTS 13



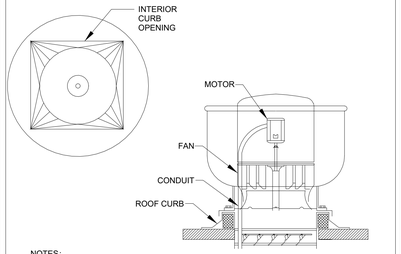
NOTES:
1. ONLY ONE 90° TURN ALLOWED IN FLEX DUCT. DUCT MUST BE PROPERLY SUPPORTED TO PREVENT KINKING.
2. IF ADDITIONAL 90° TURNS ARE REQD TO CONNECT OUTLET TO DIFFUSER, EXTEND TAP AND PROVIDE EXTERNALLY INSULATED SHEET METAL ELLS AS REQD.

CONNECTIONS BETWEEN LOW PRESSURE DUCT AND AIR DISTRIBUTION DEVICE NTS 9



NOTES:
1. SMOKE AND FIRE/SMOKE DAMPERS SHALL BE U.L. LISTED AND LABELED, AND INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. MECHANICAL CONTRACTOR SHALL PROVIDE ACCESS DOOR IN DUCTWORK FOR ACCESS TO THE DAMPER. MINIMUM SIZE SHALL BE 12"x12".
3. ALL WIRING SHALL BE INSTALLED IN RACEWAY.
4. MULTIPLE DAMPERS CAN BE SERVED FROM A SINGLE JUNCTION BOX, UP TO A MAXIMUM OF SIXTEEN (16) ACTUATORS.
5. BASIS OF DESIGN SHALL BE: SMOKE DAMPER - RUSKIN SD-60, FIRE/SMOKE DAMPER - RUSKIN FSD-60, DISCONNECT SWITCH - LEVITON #1221, SWITCH COVERPLATE - LEVITON 84001-LOK.

SMOKE & FIRE/SMOKE DAMPER WIRING DETAIL FOR 120 VOLT ACTUATORS NTS 5



NOTES:
1. PROVIDE MANUAL RESET FIRE-STAT AS REQUIRED.
2. FAN SHALL BE INSTALLED WITH EXTERNALLY MOUNTED SAFETY DISCONNECT.
3. PROVIDE BACKDRAFT DAMPER AS SPECIFIED IN FAN SCHEDULE.
4. CURB AND FAN FROM SAME MANUFACTURER.

UPBLAST TYPE CENTRIFUGAL DIRECT DRIVE ROOF EXHAUSTER NTS 1

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - DETAILS

Phase: BID DOCUMENTS

Approved:

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Project Number: 508-349

Building Number:

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024

Checked: GAT

Drawn: CAS

Drawing Number: M002

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC/47I92 - CE Central Model.rvt

12/16/2024 9:47:56 AM

VA FORM 08 - 6231

ELECTRIC UNIT HEATER SCHEDULE

UH NO.	LOCATION	WATTS	BTU	HP/VOLTS/PHASE	DIMENSIONS (L X W X H)
EUH-1	BASEMENT	5,000	17,100	0.025/208/1	14.25 X 17.25 X 17.5
EUH-2	BASEMENT	5,000	17,100	0.025/208/1	14.25 X 17.25 X 17.5

NOTES:
1. PROVIDE DISCONNECT SWITCHES FOR EACH UNIT.
2. PROVIDE TEMPERATURE SENSOR (DDC) FOR EACH UNIT.

LOUVER SCHEDULE

TAG	SERVICE	CFM	HEIGHT	LENGTH	WIDTH	MAX APD	BASIS OF DESIGN
L-1	INTAKE	4,550	48"	44"	36"	0.08	RUSKIN ELF6375DXH
L-2	RELIEF	4,550	48"	44"	36"	0.07	RUSKIN ELF6375DXH

NOTES:
1. APPROVED EQUAL - GREENHECK

SIDEWALL SUPPLY REGISTER

SYMBOL	CFM RANGE & MODULE SIZE
1 CFM	0-225 CFM 10"x6"
2 CFM	226-450 CFM 12"x10"
3 CFM	451-700 CFM 18"x12"
4 CFM	701-900 CFM 24"x12"
5 CFM	901-1180 CFM 30"x12"
6 CFM	1181-1350 CFM 36"x12"

SEE ARCHITECTURAL CEILING PLAN FOR PROPER FRAME STYLE.

SIDEWALL RETURN REGISTER

SYMBOL	SIZE
1 CFM	0-110 CFM 8"x4"
2 CFM	111-250 CFM 10"x8"
3 CFM	251-480 CFM 14"x10"
4 CFM	481-650 CFM 18"x12"
5 CFM	651-835 CFM 20"x14"
6 CFM	836-1400 CFM 24"x18"

SEE ARCHITECTURAL CEILING PLAN FOR PROPER FRAME STYLE.

BRANCH SELECTOR BOX SCHEDULE

TAG	TOTAL COOLING PER BRANCH (BTUH)	BRANCHES		ELECTRICAL DATA				MATCHING OUTDOOR UNIT
		CAPACITY	CONNECTED	MCA	MOCP	VOLTAGE	PHASE	
BS-1	54,000	12	8	0.8	15.0	208V-230V	1	CU-1
BS-2	54,000	12	10	1.0	15.0	208V-230V	1	CU-2
BS-3	54,000	12	11	1.2	15.0	208V-230V	1	CU-3

AIR COOLED CONDENSING UNIT SCHEDULE

TAG	LOCATION	TONS	MIN. EER	COOLING CAPACITY		HEATING CAPACITY		REFRIGERANT CHARGE		ELECTRICAL				
				BTUH	°F DB	BTUH	°F DB/WB	FACTORY CHARGE (LBS)	ADD'L REFRIGERANT (LBS)	RLA	VOLTS	PHASE	MCA	MOCP
CU-1	EXTERIOR	10	13.2	113,829	95.0	101,598	20.0/17.0	25.8	24.9	21.1	208V	3	36.5	40.0
CU-2	EXTERIOR	14	11.5	159,557	95.0	130,726	20.0/17.0	25.8	46.8	32.5	208V	3	54.9	60.0
CU-3	EXTERIOR	12	12.5	133,244	95.0	127,029	20.0/17.0	25.8	33.7	25.8	208V	3	47.8	50.0
CU-4	EXTERIOR	4	10.5	47,000	95.0	48,500	20.0/17.0	8.6	0.21	27.0	208V	1	30.8	35.0
CU-DOAS-A,B	EXTERIOR	16	13	192,262	95.0	195,639	20.0/17.0	51.59	-	2 X 23.3	208V	3	2 X 38.1	2 X 45.0
CU-MUA	EXTERIOR	6	25.9	73,043	95.0	-	-	13.0	-	15.7	208V	3	26.7	35.0

GENERAL NOTES:
1. UNIT SHALL BE CAPABLE OF LOW AMBIENT COOLING.
2. CONDENSING UNIT SHALL BE CAPABLE OF A DUCTED APPLICATION.
3. PROVIDE MINIMUM 18" STAND FOR EACH UNIT FOR ACCESS TO PIPING CONNECTIONS.
4. PROVIDE WITH 4" CONCRETE PAD.

FAN SCHEDULE

FAN NO.	SERVICES	LOCATION	CFM	FAN RPM	EXTERNAL STATIC PRESS. IN W.G.	FAN WHEEL TYPE	MOTOR HP/VOLT/PHASE	DRIVE TYPE	FAN TYPE	CONTROL SWITCH & INTERLOCK TYPE	STARTER	DISC. SW.
EF-1	KITCHEN HOOD	ROOF	2,025	2,210	0.6	CENTRIFUGAL	1/208/1	DIRECT	UPBLAST UTILITY	INTERLOCK W/ KITCHEN HOOD	MC	MC

NOTES:
1. PROVIDE BACKDRAFT DAMPER, BIRD SCREEN AND ROOF CURB (FOR ROOF MOUNTED FANS).
2. PROVIDE VIBRATION ISOLATORS, SEE SPECIFICATIONS.
3. FAN HOUSING SHALL BE CONSTRUCTED OF SPUN ALUMINUM.
4. COORDINATE HEIGHT OF ROOF CURB WITH ROOFING CONTRACTOR.
5. PROVIDE SPEED CONTROL AND ADJUST TO PROVIDE DESIGN CFM.
6. PROVIDE GREASE TRAP.
7. FAN SHALL BE UL LISTED FOR SMOKE/ GREASE OPERATIONS.

LOUVERED SUPPLY DIFFUSER

SYMBOL	CFM RANGE, FACE SIZE, & NECK SIZE TYPICAL MODULE SIZE - 24"x24"
1 CFM	0-135 CFM 6"x6" FACE 6" ROUND NECK
2 CFM	136-210 CFM 9"x9" FACE 8" ROUND NECK
3 CFM	211-325 CFM 12"x12" FACE 10" ROUND NECK
4 CFM	326-475 CFM 12"x12" FACE 12" ROUND NECK
5 CFM	476-650 CFM 15"x15" FACE 14" ROUND NECK
6 CFM	650-840 CFM 18"x18" FACE 16" ROUND NECK
7 CFM	841-1125 CFM 18"X18" FACE & NECK
8 CFM	12"x12" REGISTER 0-120 CFM 6"X6" FACE 6" ROUND NECK
9 CFM	12"x12" REGISTER 121-240 CFM 9"X9" FACE 8" ROUND NECK
10 CFM	24"x12" REGISTER 0-130 CFM 6"X6" FACE 6" ROUND NECK

NOTES:
1. SEE ARCHITECTURAL CEILING PLAN FOR PROPER FRAME STYLE.
2. DIFFUSERS LOCATED IN HARD CEILING AREAS SHALL BE PROVIDED WITH SURFACE MOUNTED FRAMES.
3. PROVIDE SR MODEL ROUND NECK ADAPTER.

PERFORATED EXHAUST REGISTERS

SYMBOL	REGISTER SIZE 24"x24"
A CFM	0-135 CFM 6" ROUND NECK
B CFM	136-210 CFM 8" ROUND NECK
C CFM	211-325 CFM 10" ROUND NECK
D CFM	326-475 CFM 12" ROUND NECK
E CFM	476-650 CFM 14" ROUND NECK
F CFM	651-840 CFM 16" ROUND NECK
G CFM	841-2000 CFM 22"x22" NECK
H CFM	12"x12" REGISTER 0-135 CFM 6" ROUND NECK

NOTES:
1. SEE ARCHITECTURAL CEILING PLAN FOR PROPER FRAME STYLE.
2. REGISTERS LOCATED IN HARD CEILING AREAS SHALL BE PROVIDED WITH SURFACE MOUNTED FRAMES.

PERFORATED RETURN REGISTERS

SYMBOL	REGISTER SIZE 24"x24"
1 CFM	0-135 CFM 6" ROUND NECK
2 CFM	136-210 CFM 8" ROUND NECK
3 CFM	211-325 CFM 10" ROUND NECK
4 CFM	326-475 CFM 12" ROUND NECK
5 CFM	476-650 CFM 14" ROUND NECK
6 CFM	651-840 CFM 16" ROUND NECK
7 CFM	841-2000 CFM 22"x22" NECK
8 CFM	12"x12" REGISTER 0-120 CFM 6" ROUND NECK
9 CFM	24"x12" REGISTER 0-135 CFM 6" ROUND NECK
10 CFM	16"x16" REGISTER 0-130 CFM 6" ROUNDNECK

NOTES:
1. SEE ARCHITECTURAL CEILING PLAN FOR PROPER FRAME STYLE.
2. GRILLES LOCATED IN HARD CEILING AREAS SHALL BE PROVIDED WITH SURFACE MOUNTED FRAMES.

FIRE DAMPER SCHEDULE

DAMPER TAG	SERVICE	SIZE	FLOOR	LOCATION
FD-01-01	SUPPLY	6"ø	1	SPECIAL STORAGE 128
FD-01-02	RETURN	6"ø	1	SPECIAL STORAGE 128
FD-01-03	SUPPLY	8x8	1	SPECIAL STORAGE 128
FD-01-04	SUPPLY	6"ø	1	CLEAN UTILITY 116
FD-01-05	RETURN	6"ø	1	STAFF 114
FD-01-06	SUPPLY	6"ø	1	MED 113
FD-01-07	OUTSIDE	6"ø	1	CORRIDOR 101
FD-01-08	SUPPLY	6"ø	1	LAUNDRY 111
FD-01-09	SUPPLY	10"ø	1	LAUNDRY 111
FD-01-10	SUPPLY	10"ø	1	LAUNDRY 111
FD-01-11	EXHAUST	8"ø	1	LAUNDRY 111
FD-01-12	EXHAUST	6"ø	1	SOILED UTILITY 106

NOTES:
1. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING COORDINATION DRAWINGS AND VERIFICATION OF DAMPER SIZXES PRIOR TO ORDERING DAMPERS.
2. ALL DAMPERS SHALL BE PROVIDED WITH A MINIMUM 12"X12" ACCESS DOOR OR REMOVABLE DUCT SECTION.

FIRE SMOKE DAMPER SCHEDULE

DAMPER TAG	SERVICE	SIZE	FLOOR	LOCATION
FSD-01-01	EXHAUST	6"ø	1	DEN 140
FSD-01-02	OUTSIDE	16x12	1	CORRIDOR 101
FSD-01-03	OUTSIDE	6"ø	1	CORRIDOR 134
FSD-01-04	EXHAUST	8"ø	1	PANTRY 105
FSD-01-05	SUPPLY	14x12	1	DINING 103
FSD-01-06	OUTSIDE	8"ø	1	BATH 122A

NOTES:
1. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING COORDINATION DRAWINGS AND VERIFICATION OF DAMPER SIZXES PRIOR TO ORDERING DAMPERS.
2. ALL DAMPERS SHALL BE PROVIDED WITH A MINIMUM 12"X12" ACCESS DOOR OR REMOVABLE DUCT SECTION.

DUCT DETECTOR SCHEDULE

DAMPER TAG	SERVICE	SIZE	FLOOR	LOCATION
DD-01-01	EXHAUST	6"ø	1	DEN 140
DD-01-02	OUTSIDE	16x12	1	CORRIDOR 101
DD-01-03	OUTSIDE	6"ø	1	CORRIDOR 134
DD-01-04	EXHAUST	8"ø	1	PANTRY 105
DD-01-05	SUPPLY	14x12	1	DINING 103
DD-01-06	OUTSIDE	8"ø	1	BATH 122A
DD-01-07	OUTSIDE	8"ø	BASEMENT	BATH 122A

VARIABLE REFRIGERANT FLOW (VRF) INDOOR UNIT SCHEDULE (410A REFRIGERANT)

TAG	CFM	TONS	OUTSIDE AIR CFM	DESIGN COOLING LOAD				HEATING CAPACITY		ELECTRICAL DATA				TYPE OF UNIT	MATCHING OUTDOOR UNIT
				TOTAL (BTUH)	SENSIBLE (BTUH)	ENTERING AIR °F DB	ENTERING AIR °F WB	TOTAL (BTUH)	ENTERING AIR (°F WB)	MCA	MOCP	VOLTAGE	PHASE		
FCU-1-1	335	1.0	145	11,458	8,933	78.0	65.5	14,096	68.0	0.8	15.0	208-230V	1	DUCTED	CU-1
FCU-1-2	335	1.0	135	11,458	8,933	78.0	65.5	14,096	68.0	0.8	15.0	208-230V	1	DUCTED	CU-1
FCU-1-3	335	1.0	135	11,458	8,933	78.0	65.5	14,096	68.0	0.8	15.0	208-230V	1	DUCTED	CU-1
FCU-1-4	335	1.0	135	11,458	8,933	78.0	65.5	14,096	68.0	0.8	15.0	208-230V	1	DUCTED	CU-1
FCU-1-5	335	1.0	135	11,458	8,933	78.0	65.5	14,096	68.0	0.8	15.0	208-230V	1	DUCTED	CU-1
FCU-1-6	1,115	2.5	235	28,784	21,087	78.0	65.5	35,255	68.0	1.8	15.0	208-230V	1	DUCTED	CU-1
FCU-1-7	745	2.0	205	22,957	15,789	78.0	65.5	27,932	68.0	1.9	15.0	208-230V	1	DUCTED	CU-1
FCU-1-8	530	1.3	365	14,288	10,503	78.0	65.5	17,622	68.0	1.4	15.0	208-230V	1	DUCTED	CU-1
FCU-2-1	285	0.6	30	6,889	5,100	78.0	65.5	8,806	68.0	0.8	15.0	208-230V	1	DUCTED	CU-2
FCU-2-2	500	1.5	-	17,039	12,411	78.0	65.5	21,000	68.0	0.4	15.0	208-230V	1	WALL MOUNTED	CU-2
FCU-2-3	500	1.5	-	17,039	12,411	78.0	65.5	21,000	68.0	0.4	15.0	208-230V	1	WALL MOUNTED	CU-2
FCU-2-4	320	0.8	150	9,175	6,486	78.0	65.5	10,831	68.0	0.8	15.0	208-230V	1	DUCTED	CU-2
FCU-2-5	320	0.8	70	9,175	6,486	78.0	65.5	10,831	68.0	0.8	15.0	208-230V	1	DUCTED	CU-2
FCU-2-6	285	0.6	-	7,110	6,099	78.0	65.5	8,803	68.0	0.3	15.0	208-230V	1	CASSETTE	CU-2
FCU-2-7	745	2.0	105	22,951	16,052	78.0	65.5	27,932	68.0	1.8	15.0	208-230V	1	DUCTED	CU-2
FCU-2-8	1,100	2.5	450	28,784	21,087	78.0	65.5	35,255	68.0	1.8	15.0	208-230V	1	DUCTED	CU-2
FCU-2-9	1,115	2.5	-	28,404	20,416	78.0	65.5	35,300	68.0	1.3	15.0	208-230V	1	CASSETTE	CU-2
FCU-2-10	1,115	2.5	-	28,404	20,416	78.0	65.5	35,300	68.0	1.3	15.0	208-230V	1	CASSETTE	CU-2
FCU-3-1	320	0.8	140	9,175	6,486	78.0	65.5	10,831	68.0	0.8	15.0	208-230V	1	DUCTED	CU-3
FCU-3-2	320	0.8	140	9,175	6,486	78.0	65.5	10,831	68.0	0.8	15.0	208-230V	1	DUCTED	CU-3
FCU-3-3	320	0.8	140	9,175	6,486	78.0	65.5	10,831	68.0	0.8	15.0	208-230V	1	DUCTED	CU-3
FCU-3-4	640	1.3	290	14,288	10,503	78.0	65.5	17,622	68.0	1.4	15.0	208-230V	1	DUCTED	CU-3
FCU-3-5	320	0.8	140	9,175	6,486	78.0	65.5	10,831	68.0	0.8	15.0	208-230V	1	DUCTED	CU-3
FCU-3-6	500	1.5	-	17,039	12,411	78.0	65.5	21,000	68.0	0.4	15.0	208-230V	1	WALL MOUNTED	CU-3
FCU-3-7	500	1.5	-	17,039	12,411	78.0	65.5	21,000	68.0	0.4	15.0	208-230V	1	WALL MOUNTED	CU-3
FCU-3-8	320	0.8	165	9,175	6,486	78.0	65.5	10,831	68.0	0.8	15.0	208-230V	1	DUCTED	CU-3
FCU-3-9	335	1.0	115	11,458	8,933	78.0	65.5	14,096	68.0	0.8	15.0	208-230V	1	DUCTED	CU-3
FCU-3-10	635	1.5	210	17,165	12,772	78.0	65.5	20,840	68.0	1.9	15.0	208-230V	1	DUCTED	CU-3
FCU-3-11	405	1.5	-	17,170	12,635	78.0	65.5	20,840	68.0	1.6	15.0	208-230V	1	DUCTED	CU-3
FCU-4-1	500	2.0	-	47,000	-	78.0	65.5	48,500	68.0	TBD	TBD	208-230V	1	CASSETTE	CU-4
FCU-4-2	500	2.0	-	47,000	-	78.0	65.5	48,500	68.0	TBD	TBD	208-230V	1	CASSETTE	CU-4

NOTES:
1. ALL UNITS SHALL BE U.L. LISTED AND HAVE A MINIMUM EER OR 15.0.
2. COOLING CAPACITY ARE BASED ON 95° AMBIENT, 80° ENTERING AIR BULB, 67° ENTERING AIR WET BULB. HEATING CAPACITY ARE BASED ON 15°F ENTERING DRY BULB.
3. PROVIDE MANUFACTURER'S SUGGESTED CLEARANCES AROUND UNIT.
4. PROVIDE EACH INDOOR UNIT WITH MANUFACTURER'S MOUNTING HARDWARE, THERMOSTAT WITH OVERRIDE, FULL-PORT ISOLATION VALVES WITH SCHRADER PORT BETWEEN VALVES AND INDOOR UNIT (ON BOTH LIQUID AND SUCTION LINES), SOUND ABSORBING INSULATION.
5. PROVIDE ALL EQUIPMENT WITH 5 YEAR PARTS-ONLY WARRANTY.
6. MECHANICAL CONTRACTOR BIDDING THIS PROJECT SHALL HAVE MANUFACTUERER'S FACTORY CERTIFIED TRAINING IN ALL ASPECTS OF EQUIPMENT INSTALLATION REQUIREMENTS, INCLUDING BUT NOT LIMITED TO WIRING, CONTROLS, AND REFRIGERANT PIPING METHODS.

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - SCHEDULES
Approved:
Phase: BID DOCUMENTS
FULLY SPRINKLERED
Project Title: CONSTRUCT TDVV CLC 12 BEDS
Location: 180 MARTIN DR, CARROLLTON, GA 30117
Issue Date: 12/16/2024
Checked: GAT
Drawn: CAS
Project Number: 508-349
Building Number:
Drawing Number: M003

Autodesk Docs://22.9003 - VA Atlanta Tinka Davis CLC/4792 - CE Central Model.rvt
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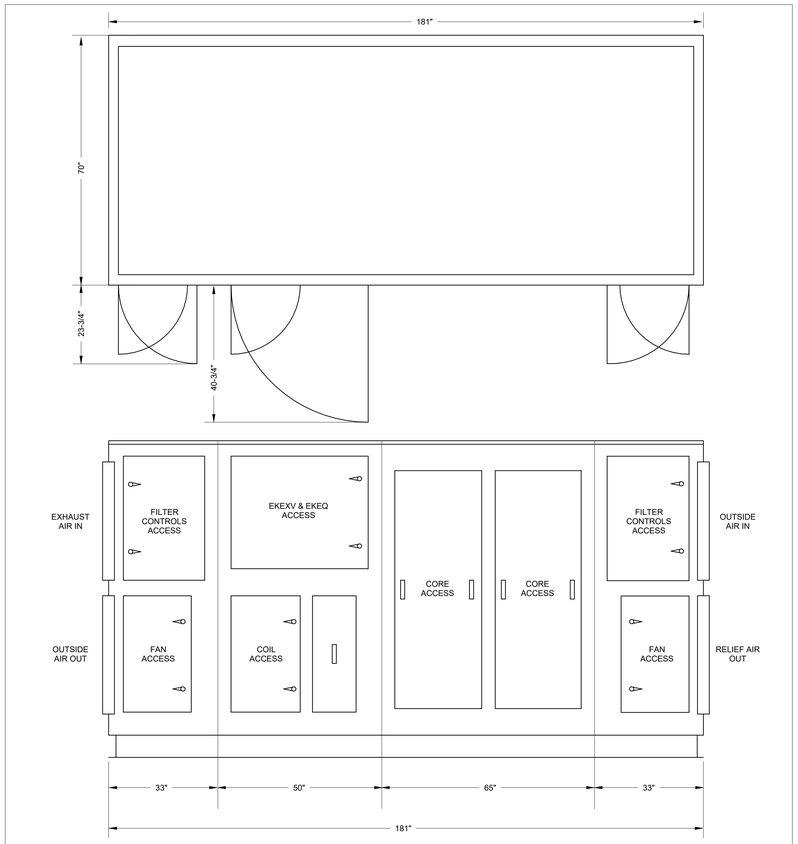
VA FORM 08 - 6231



DOAS-1 SCHEMATIC NTS 1

AIR HANDLING UNIT SCHEDULE

		DOAS-1	MUA-1
SYSTEM NO.			
LOCATION		BASEMENT (INDOOR)	LEVEL 01 (CEILING)
SERVES		LEVEL 01	LEVEL 01
TYPE UNIT		DEDICATED OUTSIDE AIR UNIT	KITCHEN HOOD MAKEUP AIR UNIT
SYSTEM TYPE		CONSTANT VOLUME	CONSTANT VOLUME
SUPPLY AIR CFM		4,550	1,620
OUTSIDE AIR CFM		4,550	1,620
ELEC	VOLTAGE/PHASE/HZ	208V/3ø/60HZ	208V/3ø/60HZ
	FULL LOAD AMPS (FLA)	34.73	8.61
	MAXIMUM CURRENT AMPACITY (MCA)	36.88	8.78
	MAXIMUM OVERCURRENT PROTECTION (MOCP)	45.88	15
OA FILTER	FILTER TYPE	MERV-13	MERV-13
	FILTER MINIMUM EFFICIENCY	85%	85%
	FILTER DEPTH (IN)	4	2
	FILTER PRESSURE DROP (IN WG)	1.0	1.0
	REMARKS:	PROVIDE ONE ADDITONAL TO OWNER.	PROVIDE ONE ADDITONAL TO OWNER.
	REFER TO HEAT EXCHANGER SCHEDULE ON THIS SHEET.		
COOLING COIL	TOTAL CFM	4,550	1,620
	TOTAL LOAD (MBH)	187.4	94.4
	SENSIBLE LOAD (MBH)	121.2	49.97
	EAT Db/Wb (°F)	78.9/66.4	91.6/73.9
	LAT Db/Wb (°F)	54.7/53.1	63.7/59.5
	TYPE COIL	DIRECT EXPANSION	DIRECT EXPANSION
	ROWS MIN.	5	5
	FINS PER IN MAX.	14	8
	SQ. FT. FACE AREA MIN.	9.7	3.8
	FACE VELOCITY MAX.	440	432
	REMARKS:	NONE	NONE
HEATING COIL	TOTAL CFM	4,550	N/A
	TOTAL LOAD (MBH)	61.5	N/A
	SENSIBLE LOAD (MBH)	-	N/A
	EAT Db/Wb (°F)	59.5/-	N/A
	LAT Db/Wb (°F)	72/-	N/A
	TYPE COIL	DIRECT EXPANSION	N/A
	ROWS MIN.	5	N/A
	FINS PER IN MAX.	14	N/A
	SQ. FT. FACE AREA MIN.	9.7	N/A
	FACE VELOCITY MAX.	-	N/A
	REMARKS:	NONE	NONE
HOT GAS REHEAT	TOTAL CFM	1,800	N/A
	TOTAL LOAD (MBH)	91.8	N/A
	SENSIBLE LOAD (MBH)	-	N/A
	EAT Db/Wb (°F)	55/-	N/A
	LAT Db/Wb (°F)	73.6/-	N/A
	ROWS MIN.	PER MANUFACTURER	N/A
	FINS PER IN MAX.	8.0	N/A
	SQ. FT. FACE AREA MIN.	9.7	N/A
	FACE VELOCITY MAX.	440	N/A
	REMARKS:	NONE	NONE
SUPPLY FAN	TOTAL CFM	4,550	1,620
	EXTERNAL STATIC PRESSURE (IN WG)	0.75	0.5
	TOTAL STATIC PRESSURE (IN WG)	2.3	1.60
	RPM APPROX.	2,214	2,456
	TYPE DRIVE	DIRECT	DIRECT
	TYPE FAN	PLENUM	PLENUM
	CLASS FAN	N/A	N/A
	ARRANGEMENT	2X1	1X1
	VFD	NO	NO
	REMARKS:	NO VFD, ECM FANS	NONE
EXHAUST FAN	TOTAL CFM	4,550	N/A
	EXTERNAL STATIC PRESSURE (IN WG)	0.75	N/A
	TOTAL STATIC PRESSURE (IN WG)	TBD	N/A
	WHEEL DIAMETER MIN. (in.)	TBD	N/A
	RPM APPROX.	2,093	N/A
	TYPE DRIVE	DIRECT	N/A
	TYPE FAN	PLENUM	N/A
	CLASS FAN	N/A	N/A
	ARRANGEMENT	2X1	N/A
	VFD	NO	N/A
	REMARKS:	NO VFD, ECM FANS	NONE
EA FILTER	FILTER TYPE	MERV-8	N/A
	FILTER MINIMUM EFFICIENCY	30%	N/A
	FILTER DEPTH (IN)	4	N/A
	FILTER PRESSURE DROP (IN WG)	1.0	N/A
	REMARKS:	PROVIDE ONE ADDITONAL TO OWNER.	NONE
ACCESS.	VIBRATION ISOLATORS ON ALL FANS	YES	YES
	MIXING SECTION WITH ACCESS DOOR	YES	NO
	MOTOR OPER. DAMPERS	YES	YES
	RETURN AIR PLENUM W/ ACCESS DOOR	NO	NO
	DISCHARGE AIR PLENUM W/ ACCESS DOOR	YES	YES
	ECONOMIZER	NO	NO
	SOUND ATTENUATOR	YES	YES
	REMARKS:	NONE	PROVIDE & INSTALL DUCT FLEX CONNECTIONS TO THE UNIT.

GENERAL NOTES:

1. FILTERS SHALL BE PROVIDED BY THE UNIT MANUFACTURER. ONE SET OF NEW FILTERS SHALL BE INSTALLED IN EACH FILTER BANK WHEN BUILDING IS TURNED OVER TO OWNER AND ONE COMPLETE SET SHALL BE PROVIDED FOR OWNER'S STOCK.
2. REFER TO UNIT PLANS FOR ARRANGEMENT OF UNIT, ACCESS DOORS, ETC.
3. REFER TO SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR ACCESSORIES AND DETAILS OF CONSTRUCTION FOR THE AIR HANDLING UNIT.
4. PROVIDE PREMIUM EFFICENCY MOTORS.
5. PERFORMANCE PARAMETERS SHALL BE MAINTAINED WITH FULLY LOADED FILTERS.
6. DOAS-1 AND MUA-1 SHALL BE PROVIDED WITH MANUFACTURER'S INTEGRATION VALVE KITS TO CONNECT TO OUTDOOR UNITS.

AIR TO AIR PLATE FRAME HEAT EXCHANGER SCHEDULE

AIR HANDLING UNIT	LOCATION	VENTILATION/ EXHAUST AIR FLOWS CFM	OUTSIDE AIR				DELIVERED /SUPPLY AIR													EXHAUST AIR OUT							
			SUMMER TEMP (Db)	SUMMER Wb	WINTER TEMP (Db)	WINTER Wb	CFM	PRESSURE DROP IN. WG	SUMMER TEMP (Db)	SUMMER TEMP (Wb)	SUMMER SENSIBLE EFF. DRY	SUMMER SENSIBLE EFF. DESIGN	ENERGY RECOVERED	LEAVING RH	WINTER TEMP (Db)	WINTER TEMP (Wb)	WINTER SENSIBLE EFF. DRY	WINTER SENSIBLE EFF. DESIGN	ENERGY RECOVERED	LEAVING RH	CFM	STATIC PRESSURE	SUMMER TEMP (Db)	SUMMER TEMP (Wb)	LEAVING RH	WINTER TEMP (Db)	WINTER TEMP (Wb)	LEAVING RH
DOAS-1	BASEMENT	4,550	91.6	73.9	26.4	26.3	4,550	0.57	78.9	66.4	76.4%	76.4%	71.6%	52.5%	59.5	46.9	75.9%	75.9%	73.46%	37.8%	4,550	0.56	87.7	70.8	44.5%	36.9	34.0	75.5%

Revisions:	Date:

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Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024

Checked: GAT

Drawn: CAS

Project Number: 508-349

Building Number:

Drawing Number: M004

Autodesk Docs://22.9003 - VA Atlanta Tinka Davis CLC\47921 - CE Central Model.rvt

12/16/2024 9:48:05 AM

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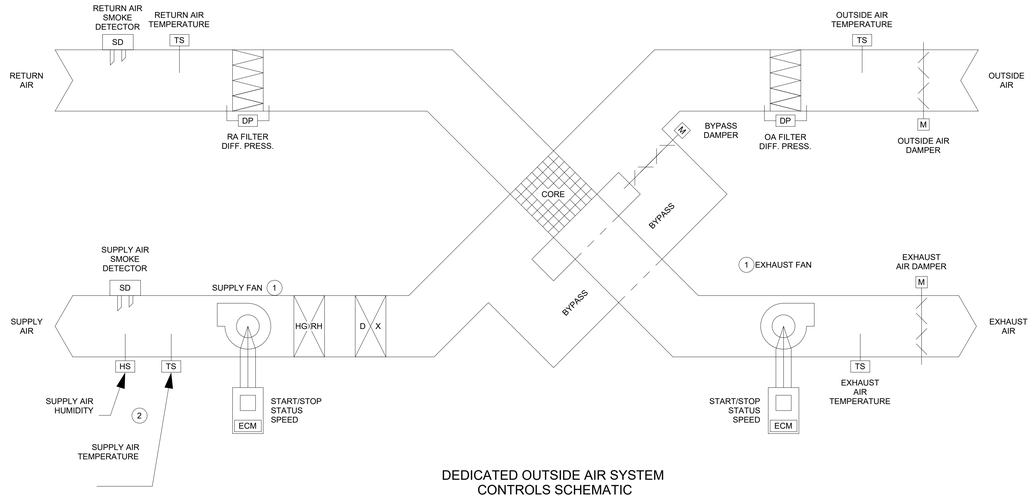


DEDICATED OUTSIDE AIR SYSTEM CONTROLS SCHEMATIC

KEYED NOTES

1. SUPPLY AND EXHAUST FANS SHALL BE ECM-TYPE WITH INTEGRATED SPEED CONTROL. FANS SHALL BE PROVIDED WITH INTEGRAL AIR FLOW MEASURING STATIONS.
2. COMBINATION SENSOR CAN BE USED IN PLACE OF INDIVIDUAL TEMPERATURE AND RELATIVE HUMIDITY SENSORS.

DEDICATED OUTSIDE AIR SYSTEM (DOAS-1) SEQUENCE OF OPERATIONS

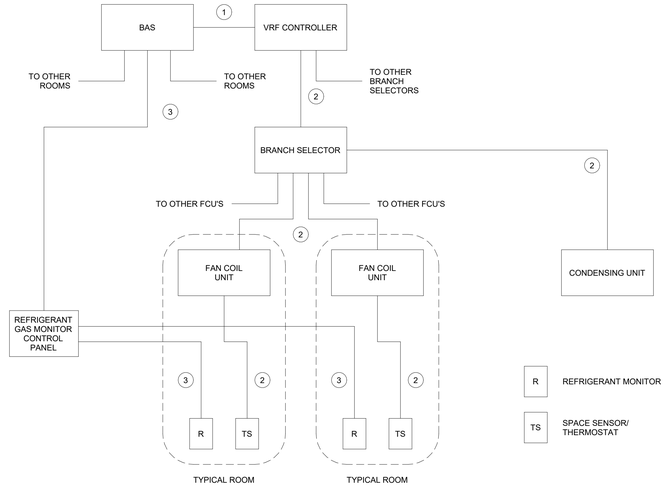
1) THIS SYSTEM CONSISTS OF THE FOLLOWING PRIMARY COMPONENTS:
   a) DOAS-1 SHALL CONSIST OF THE FOLLOWING COMPONENTS:
      i) SUPPLY FAN W/INTEGRAL SPEED CONTROL AND AIR FLOW MEASURING STATION.
      ii) EXHAUST FAN W/INTEGRAL SPEED CONTROL AND AIR FLOW MEASURING STATION.
      iii) HEAT EXCHANGER CORE W/BYPASS.
      iv) DX COOLING/HEATING COIL.
      v) HOT GAS REHEAT COIL.
      vi) ACTUATED DAMPERS AT OUTSIDE AIR (OA) AND EXHAUST AIR (EA) CONNECTIONS.
      vii) ACTUATED DAMPER AT HEAT EXCHANGER BYPASS.
   b) DEDICATED CONDENSING UNITS (CU-DOAS-A & CU-DOAS-B).
2) OCCUPIED/UNOCCUPIED OPERATION:
   a) OCCUPIED AND UNOCCUPIED MODE SHALL BE DETERMINED BY A SCHEDULE IN THE BAS.
   b) DURING OCCUPIED MODE, THE FOLLOWING WILL OCCUR:
      i) OUTSIDE AIR AND EXHAUST AIR DAMPERS WILL BE COMMANDED OPEN.
      ii) THE SUPPLY FAN AND EXHAUST FAN SHALL RUN AT CONSTANT SPEED TO MAINTAIN SCHEDULED SUPPLY AND EXHAUST AIR FLOWS, RESPECTIVELY.
   c) DURING UNOCCUPIED MODE, THE FOLLOWING WILL OCCUR:
      i) OUTSIDE AIR AND EXHAUST AIR DAMPERS WILL BE COMMANDED CLOSED.
      ii) THE SUPPLY FAN AND EXHAUST FAN SHALL BE DE-ENERGIZED.
3) DISCHARGE CONTROL:
   a) THE DISCHARGE AIR TEMPERATURE SENSOR IS LOCATED AT THE UNITS DISCHARGE PLENUM. CONTROL DISCHARGE AIR TEMPERATURE TO 72 DEGREES F (ADJUSTABLE) BY MODULATING THE COOLING/ HEATING COIL CONTROL VALVES AND HOT GAS REHEAT COIL, IN SEQUENCE.
   b) THE PREHEAT VALVE WILL FAIL SAFE TO THE NORMAL OPEN POSITION. WHEN THE OSA TEMPERATURE IS ABOVE 50 DEGREES (SET POINT ADJUSTABLE), THE PREHEAT VALVE WILL BE CLOSED. WHEN THE OUTSIDE AIR TEMPERATURE FALLS BELOW 50 DEGREES THE PREHEAT CONTROL VALVE SHALL MODULATE TO MAINTAIN DOWN STREAM AIR TEMPERATURE SET POINT.
   c) AHU COOLING COILS SHALL UTILIZE A STANDARD CONTROL VALVE ARRANGEMENT AND SHALL BE CONTROLLED AS FOLLOWS:
      i) ON AN INCREASE IN COOLING LOAD, THE CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SET POINT. UPON A DECREASE IN COOLING LOAD, THE CONTROL SHALL MODULATE CLOSED TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT.
4) ECONOMIZER MODE:
   a) WHEN OUTSIDE AIR CONDITIONS ALLOW, THE UNIT SHALL ENTER ECONOMIZER MODE BY BYPASSING AIR AROUND THE HEAT EXCHANGER. THE CONDITIONS WHERE ECONOMIZER OPERATION IS ALLOWABLE ARE BELOW:
      i) WHEN IN COOLING MODE, IF THE OUTSIDE AIR TEMPERATURE IS LOWER THAN THE SUPPLY AIR TEMPERATURE, THE UNIT SHALL BEGIN TO MODULATE THE BYPASS DAMPER OPEN. IF THE SUPPLY AIR TEMPERATURE SETPOINT CANNOT BE REACHED WITH THE BYPASS DAMPER FULLY OPENED, DX COOLING SHALL BE ENABLED.
      ii) WHEN IN HEATING MODE, IF THE OUTSIDE AIR TEMPERATURE IS HIGHER THAN THE SUPPLY AIR TEMPERATURE, THE UNIT SHALL BEGIN TO MODULATE THE BYPASS DAMPER OPEN. IF THE SUPPLY AIR TEMPERATURE SETPOINT CANNOT BE REACHED WITH THE BYPASS DAMPER FULLY OPENED, DX HEATING SHALL BE ENABLED.
5) DEHUMIDIFICATION MODE:
   a) WHEN DISCHARGE AIR RELATIVE HUMIDITY IS ABOVE SETPOINT (ADJ.), HOT GAS REHEAT SHALL BE UTILIZED FOR DEHUMIDIFICATION.
6) UNIT ALARMS:
   a) FILTER DIFFERENTIAL PRESSURE MUST BE MONITORED ON BOTH FILTERS UPSTREAM OF THE HEAT EXCHANGER CORE (OUTSIDE AIR AND RETURN AIR). AN ALARM WILL BE DISPLAYED ON THE BAS WHEN THE FILTER MUST BE CHANGED.
   b) UNIT SHALL BE INTEGRATED WITH THE FIRE ALARM CONTROL PANEL TO MONITOR THE STATUS OF THE BUILDING'S FIRE ALARM SYSTEM. IN THE EVENT OF THE ACTIVATION OF THE AIR DUCT SMOKE DETECTORS OR A GENERAL FIRE ALARM, THE UNIT SHALL SHUT DOWN. OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL BE COMMANDED CLOSED.
7) UPON DETECTION OF SMOKE, ZONE SMOKE DETECTOR, ANY AIR DUCT SMOKE DETECTOR OR ON ACTIVATION OF FIRE ALARM PULL STATION, AIR HANDLER SHALL SHUTDOWN THROUGH FIRE ALARM SYSTEM AND ALARM SHALL BE SENT TO THE BAS. SHUTDOWN SEQUENCES INCLUDES:
   a) SHUTDOWN SUPPLY & EXHAUST FANS
   b) CLOSURE OF MOTORIZED OUTSIDE AIR AND EXHAUST AIR DAMPERS
8) PROVIDE EMERGENCY STOP SWITCH. IS ESS IS IN "PUSHED" POSITION, DOAS-1 MUST SHUTDOWN. THEN THE SWITCH MUST BE MANUALLY "PULLED" IN ORDER TO RESTART AIR HANDLER.

ELECTRIC UNIT HEATER (EUH-1) SEQUENCE OF OPERATIONS

1) ELECTRIC UNIT HEATERS EUH-1 AND EUH-2 SHALL BE CONTROLLED BY LINE-VOLTAGE THERMOSTATS INTEGRAL TO THE UNITS. THERMOSTATS SHALL BE PROVIDED BY THE UNIT MANUFACTURER. TEMPERATURE SETPOINT SHALL BE SET AT 60 DEG F AND SHALL BE ADJUSTABLE AT THE UNIT.
2) A SPACE TEMPERATURE SENSOR SHALL BE LOCATED IN THE MECHANICAL ROOM AT THE LOCATION SHOWN ON THE FLOOR PLAN. SENSOR SHALL REPORT BACK TO THE BUILDING AUTOMATION SYSTEM. A LOW SPACE TEMPERATURE ALARM SHALL BE DISPLAYED ON THE BAS WHEN THE SPACE TEMPERATURE DROPS BELOW 55 DEG F (ADJ.).

FAN COIL UNIT (FCU-X) SEQUENCE OF OPERATIONS

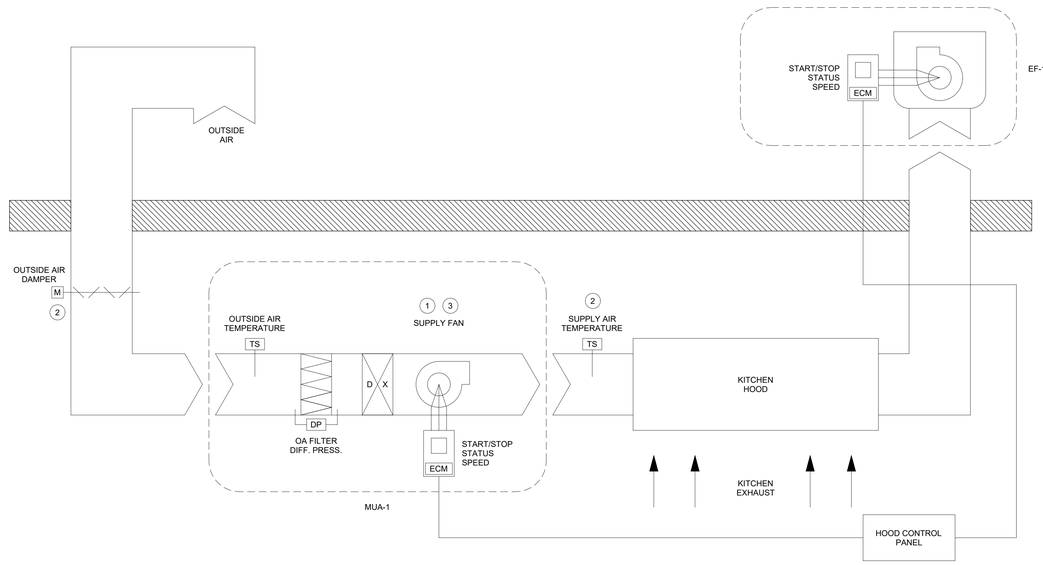
1) THIS SYSTEM CONSISTS OF THE FOLLOWING PRIMARY COMPONENTS:
   a) FAN COIL UNIT FCU-X.
   b) SPACE SENSOR/THERMOSTAT.
   c) REFRIGERANT MONITOR.
   d) BRANCH SELECTOR BS-X.
   e) CONDENSING UNIT CU-X.
2) THE FAN COIL UNIT SHALL BE CONTROLLED VIA A WALL-MOUNTED SPACE SENSOR/THERMOSTAT. THIS SENSOR WILL BE PROVIDED BY THE VRF SYSTEM MANUFACTURER. SPACE SENSOR SHALL HAVE THE FOLLOWING CAPABILITIES:
   a) INDIVIDUAL COOLING AND HEATING SETPOINTS.
   b) VARIABLE AIR FLOW SETTINGS.
   c) PROGRAMMABLE SCHEDULING FOR OCCUPIED/UNOCCUPIED MODES (CAN BE OVERRIDDEN AND/OR DISABLED BY MAIN SYSTEM CONTROLLER).
3) THE FAN COIL UNIT SHALL OPERATE IN HEATING OR COOLING MODE AS NEEDED TO MAINTAIN THE DESIRED SPACE TEMPERATURE SETPOINT. CONTROL OF FAN COIL UNITS, BRANCH SELECTOR, AND CONDENSING (OUTDOOR) UNITS SHALL BE PERFORMED BY THE VRF SYSTEM CONTROLLER.
4) ALL ASPECTS OF THE VRF SYSTEM SHALL BE FULLY INTEGRATED, VIA BACNET, WITH THE BUILDING AUTOMATION SYSTEM. READ/WRITE FUNCTIONALITY OF ALL INFORMATION AVAILABLE ON THE VRF SYSTEM MUST BE AVAILABLE ON THE BAS.
5) REFRIGERANT MONITORS SHALL BE INSTALLED IN ALL LOCATIONS SHOWN ON THE FLOOR PLAN. EACH REFRIGERANT MONITOR SHALL BE CONNECTED BACK TO REFRIGERANT GAS MONITOR CONTROL PANEL IN MECHANICAL ROOM. THIS CONTROL PANEL MUST BE INTEGRATED WITH THE BAS. UPON ACTIVATION OF THE REFRIGERANT GAS MONITOR CONTROL PANEL, THE FOLLOWING WILL OCCUR:
   a) A "WARNING" SHALL BE ACTIVATED WHEN THE MEASURED REFRIGERANT LEVEL EXCEEDS 250 PPM (ADJ.). A WARNING SHALL BE DISPLAYED ON THE BAS.
   b) AN "ALARM" SHALL BE ACTIVATED WHEN THE MEASURED REFRIGERANT LEVEL EXCEEDS 500 PPM (ADJ.). AN ALARM SHALL BE DISPLAYED ON THE BAS AND ALL EQUIPMENT ON THAT INDIVIDUAL SYSTEM MUST BE SHUT DOWN (INCLUDING THE CONDENSING UNIT AND ALL OTHER FAN COIL UNITS THAT SHARE THE SAME REFRIGERANT CIRCUIT).
   c) MONITORS SHALL BE PROGRAMMED AND CALIBRATED TO REDUCE THE POSSIBILITY OF NUISANCE ALARMS.
6) CONDENSATE LEVEL MUST BE MONITORED BY THE UNIT CONTROLS. IF CONDENSATE IN THE AUXILIARY DRAINPAN APPROACHES THE LEVEL WHERE IT COULD OVERFLOW THE PAN OR OTHERWISE CAUSE DAMAGE, CLOGGED CONDENSATE LINE, THE UNIT SHALL BE SHUT DOWN AND AN ALARM SHALL BE DISPLAYED ON THE BAS.
7) ALL ALARMS AND SAFETIES INTERNAL TO THE VRF SYSTEM MUST BE DISPLAYED ON THE BAS.



FAN COIL UNIT AND VRF SYSTEM CONTROL SCHEMATIC

KEYED NOTES

1. DATA CONNECTION BETWEEN THE MAIN VRF CONTROLLER AND THE BUILDING AUTOMATION SYSTEM WILL REQUIRE A COMMUNICATIONS ADAPTER. THIS ADAPTER WILL ALLOW COMMUNICATION BETWEEN THE VRF CONTROLLER AND THE BAS VIA THE BACNET PROTOCOL. ALL POINTS AVAILABLE IN THE VRF CONTROLLER MUST BE INTEGRATED WITH THE BAS. READ/WRITE CAPABILITY FROM THE BAS FRONT END MUST BE AVAILABLE FOR ALL POINTS.
2. WIRING BETWEEN THE SPACE SENSORS, FCUS, BRANCH SELECTORS, CONDENSING UNITS, AND VRF CONTROLLERS WILL BE PART OF THE INSTALLATION OF THE VRF SYSTEM.
3. WIRING BETWEEN THE REFRIGRANT MONITORS AND THE BAS PANEL WILL BE PART OF THE INSTALLATION OF THE BUILDING AUTOMATION SYSTEM.



MAKEUP AIR UNIT MUA-1 AND EXHAUST FAN EF-1 CONTROLS SCHEMATIC

KEYED NOTES

1. MUA-1 SUPPLY FAN SHALL BE ECM-TYPE WITH INTEGRATED SPEED CONTROL.
2. OUTSIDE AIR DAMPER AND SUPPLY AIR TEMPERATURE SENSORS TO BE INSTALLED IN DUCTWORK AS SHOWN.
3. MUA-1 AND EF-1 SHALL BE INTERLOCKED.

MAKEUP AIR UNIT (MUA-1) AND EXHAUST FAN (EF-1) SEQUENCE OF OPERATIONS

1) THIS SYSTEM CONSISTS OF THE FOLLOWING PRIMARY COMPONENTS:
   a) MAKEUP AIR UNIT MUA-1.
   b) EXHAUST FAN EF-1.
   c) OUTSIDE AIR DAMPER.
2) WHEN THE KITCHEN HOOD IS ENERGIZED VIA THE HOOD CONTROL PANEL (PROVIDED BY KITCHEN EQUIPMENT VENDOR), EXHAUST FAN EF-1 AND MAKEUP AIR UNIT MUA-1 SHALL BE COMMANDED "ON". THE OPERATION OF MAKEUP AIR UNIT MUA-1 AND EXHAUST FAN EF-1 SHALL BE INTERLOCKED. MUA-1 SHALL RUN CONTINUOUSLY WHENEVER EF-1 IS IN OPERATION.
3) WHEN MUA-1 IS COMMANDED TO RUN, THE OUTSIDE AIR DAMPER SHALL OPEN. WHEN MUA-1 IS NOT IN OPERATION, THE OUTSIDE AIR DAMPER SHALL BE CLOSED.
4) THE SUPPLY FAN IN MUA-1 SHALL AUTOMATICALLY MODULATE TO MAINTAIN THE SCHEDULED AIRFLOW. THIS SHALL BE ACCOMPLISHED VIA AUTOMATIC ADJUSTMENT OF THE ECM MOTOR'S SPEED CONTROL BY THE UNIT'S INTERNAL CONTROLS.
5) THE DX COIL IN MAU-1 SHALL OPERATE VIA THE UNIT'S INTERNAL CONTROLS TO MAINTAIN A DISCHARGE AIR TEMPERATURE OF 55 DEG F (ADJ.).
6) THE BAS SHALL MONITOR THE STATUS OF MAU-1 AND EF-1 VIA CURRENT TRANSDUCERS AT EACH PIECE OF EQUIPMENT. IF EITHER IS COMMANDED "ON" BUT STATUS IS NOT PROVEN WITHIN 30 SECONDS (ADJ.), AN ALARM SHALL BE DISPLAYED ON THE BAS AND BOTH SHALL BE DE-ENERGIZED.
7) A DIFFERENTIAL PRESSURE SWITCH WILL MONITOR THE PRESSURE DROP ACROSS THE OUTSIDE AIR FILTER. AN ALARM WILL BE DISPLAYED ON THE BAS WHEN THE FILTER MUST BE CHANGED.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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STAMP Gregory A. Turner

GEORGIA REGISTERED No. PE023510 PROFESSIONAL ENGINEER GREGORY A. TURNER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - CONTROLS SCHEMATICS AND SEQUENCE OF OPERATIONS

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024

Checked: GAT

Drawn: CAS

Project Number: 508-349

Building Number:

Drawing Number: M005

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC47I92 - CE Central Model.rvt

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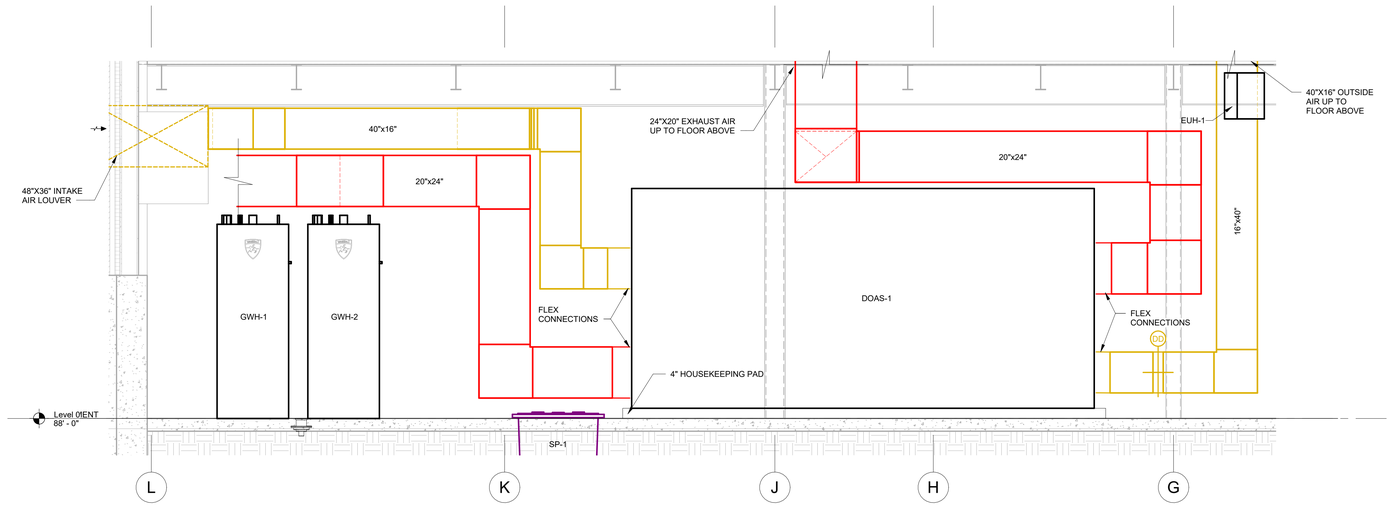
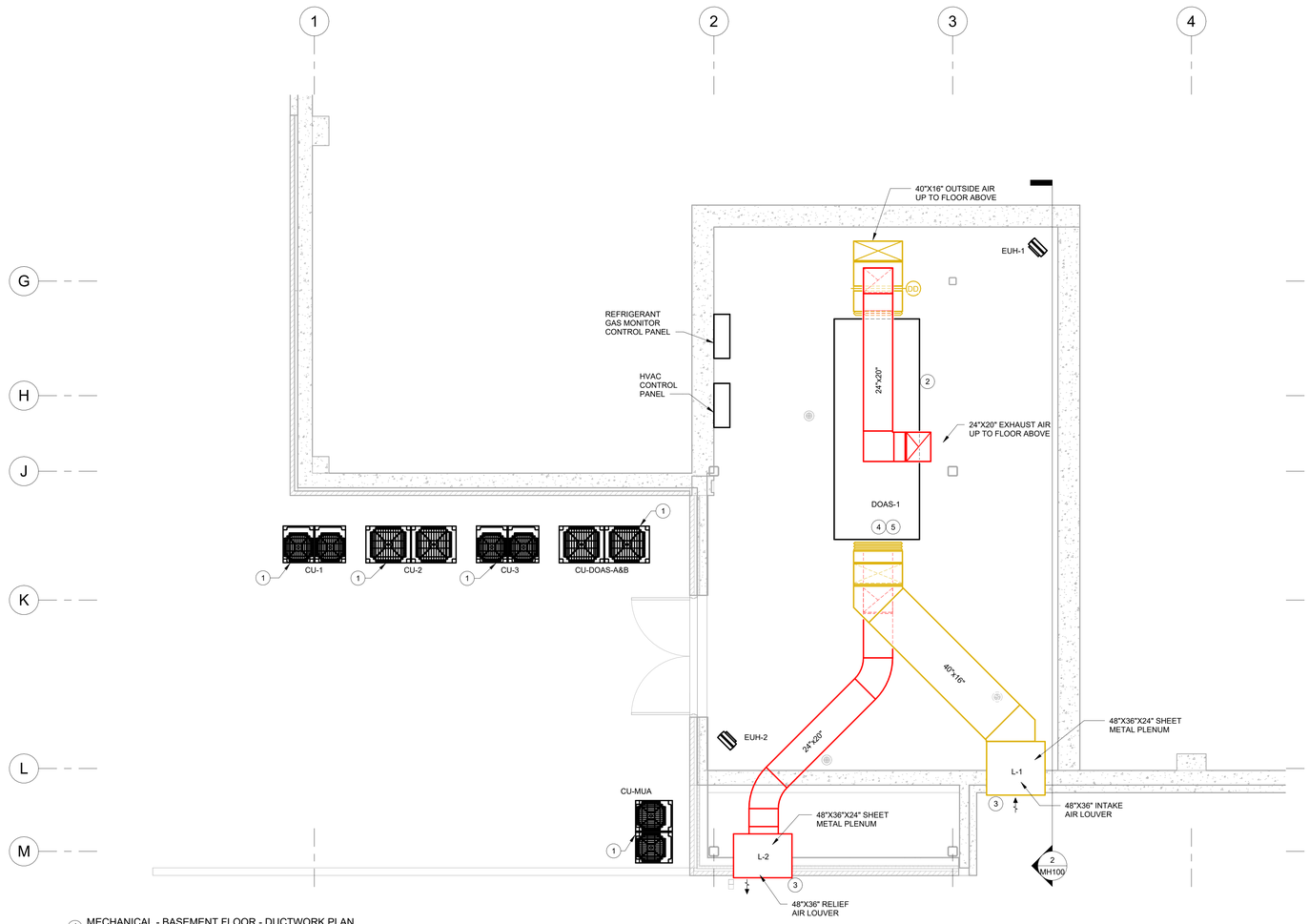


2 MECHANICAL - BASEMENT FLOOR - DUCTWORK ELEVATION
1/2" = 1'-0"



1 MECHANICAL - BASEMENT FLOOR - DUCTWORK PLAN
1/4" = 1'-0"

GENERAL NOTES

A. ALL DUCTS, PIPE, AND EQUIPMENT SHALL BE LATERALLY RESTRAINED TO COMPLY WITH THE STATE BUILDING CODE.

B. BEFORE FABRICATING ANY SHEET METAL DUCTWORK, COORDINATE LOCATION AND SIZE WITH SPRINKLER & PLUMBING PIPING, CONDUITS, LIGHT FIXTURES, STRUCTURAL, ETC. PLANS ARE SCHEMATIC AND ARE NOT SHOP DRAWINGS. SUBMIT DUCTWORK COORDINATION DRAWINGS, AS SPECIFIED.

C. BEFORE SUBMITTING SHOP DRAWINGS, COORDINATE VOLTAGES AVAILABLE FOR MECHANICAL EQUIPMENT AND PROVISION OF ALL STARTERS AND DISCONNECT SWITCHES WITH ELECTRICAL CONTRACTOR.

D. MECHANICAL CONTRACTOR SHALL MAKE PROVISIONS FOR PROVIDING A CONDENSATE DRAIN TRAP A MINIMUM OF 4" DEEP OR 1/2" PLUS THE STATIC PRESSURE OF THE UNIT SUPPLY FAN.

E. ALL EQUIPMENT SHALL BE U.L. LISTED.

F. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL MECHANICAL EQUIPMENT; PROVIDE DISCONNECTS, WIRING AND CONDUIT, INSTALL STARTERS, AND MOUNT AND WIRE VARIABLE SPEED DRIVES, UNLESS OTHERWISE NOTED.

G. FIRE AND SMOKE DAMPERS SHALL BE INSTALLED IN COMPLETE ACCORDANCE WITH THE MANUFACTURER'S U.L. LISTING AND INSTALLATION INSTRUCTIONS. FIRE AND SMOKE DAMPERS SHALL HAVE SPECIFIC U.L. LISTING FOR THE CONSTRUCTION IN WHICH THEY ARE INSTALLED. PROVIDE DYNAMIC FIRE DAMPERS.

H. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO ELIMINATE CONFLICT WITH OTHER TRADES. ANY WORK INSTALLED BY THIS CONTRACTOR THAT RESULTS IN CONFLICT, DUE TO LACK OF COORDINATION BETWEEN TRADES, SHALL BE CHANGED AS DIRECTED BY THE ARCHITECT/ENGINEER WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.

I. SMOKE DETECTORS SHALL BE FURNISHED BY THE FIRE ALARM CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED. PROVIDE DUCT ACCESS DOOR AT EACH DETECTOR. INSTALL DETECTORS IN COMPLETE ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

J. COORDINATE HEIGHT OF ROOF CURBS AND ROOF SUPPORTS WITH ROOFING CONTRACTOR.

K. MECHANICAL CONTRACTOR SHALL COORDINATE ROUTING OF DUCTWORK TO ENSURE DUCTWORK DOES NOT PASS OVER ELECTRICAL PANELS.

L. THE DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED IS INTENDED FOR GENERAL REFERENCE ONLY.

M. ALL SHUTDOWNS SHALL BE COORDINATED AND APPROVED THROUGH THE OWNERS REPRESENTATIVE AND WILL REQUIRE ADVANCE NOTICE OF ONE WEEK. THIS TIME LENGTH MAY BE LONGER OR SHORTER FOR SOME SHUTDOWNS AND SHALL BE AT THE OWNERS DISCRETION.

N. LEAVE A MINIMUM CLEARANCE OF 2 INCHES ABOVE DUCTS INSTALLED IN RATED PARTITIONS TO ALLOW SPACE FOR THE GENERAL CONTRACTOR TO SEAL THE WALL ABOVE THE DUCTS. DO NOT INSTALL FLEXIBLE DUCT THROUGH RATED WALLS, BARRIERS OR PARTITIONS.

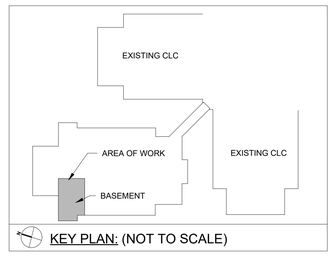
O. PROVIDE REMOVABLE ACCESS DOORS AT ALL MOTOR OPERATED DAMPERS, FIRE DAMPERS, SMOKE DAMPERS, DUCT COILS, SMOKE DETECTORS, AND SIMILAR ITEMS REQUIRING MAINTENANCE OR ADJUSTMENT.

P. MECHANICAL CONTRACTOR SHALL INSTALL MANUAL VOLUME DAMPERS ON ALL BRANCH DUCTWORK CONNECTIONS.

Q. CONSTRUCTION DEBRIS SHALL BE REMOVED DAILY.

NEW WORK KEYED NOTES

1. PROVIDE WITH 4" CONCRETE PAD.
2. PROVIDE WITH 4" CONCRETE HOUSEKEEPING PAD.
3. MOUNT DUCT AS HIGH AS POSSIBLE AFF. COORDINATE WALL OPENING PENETRATIONS WITH G.C. IN THE FIELD.
4. REFER TO DRAWING M005 FOR UNIT SCHEMATIC.
5. M.C FIELD VERIFY DOAS-1 DUCTWORK OPEING CONNECTIONS & PROVIDE TRANSITION DUCTWORK AS REQUIRED.



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE
8 0 4 8 16 32
(in Feet)
1 inch = 8 ft.

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - BASEMENT FLOOR - DUCTWORK PLAN
Approved:
Phase: BID DOCUMENTS
FULLY SPRINKLERED
Project Title: CONSTRUCT TDVV CLC 12 BEDS
Location: 180 MARTIN DR, CARROLLTON, GA 30117
Issue Date: 12/16/2024
Checked: GAT
Drawn: CAS
Project Number: 508-349
Building Number:
Drawing Number: MH100

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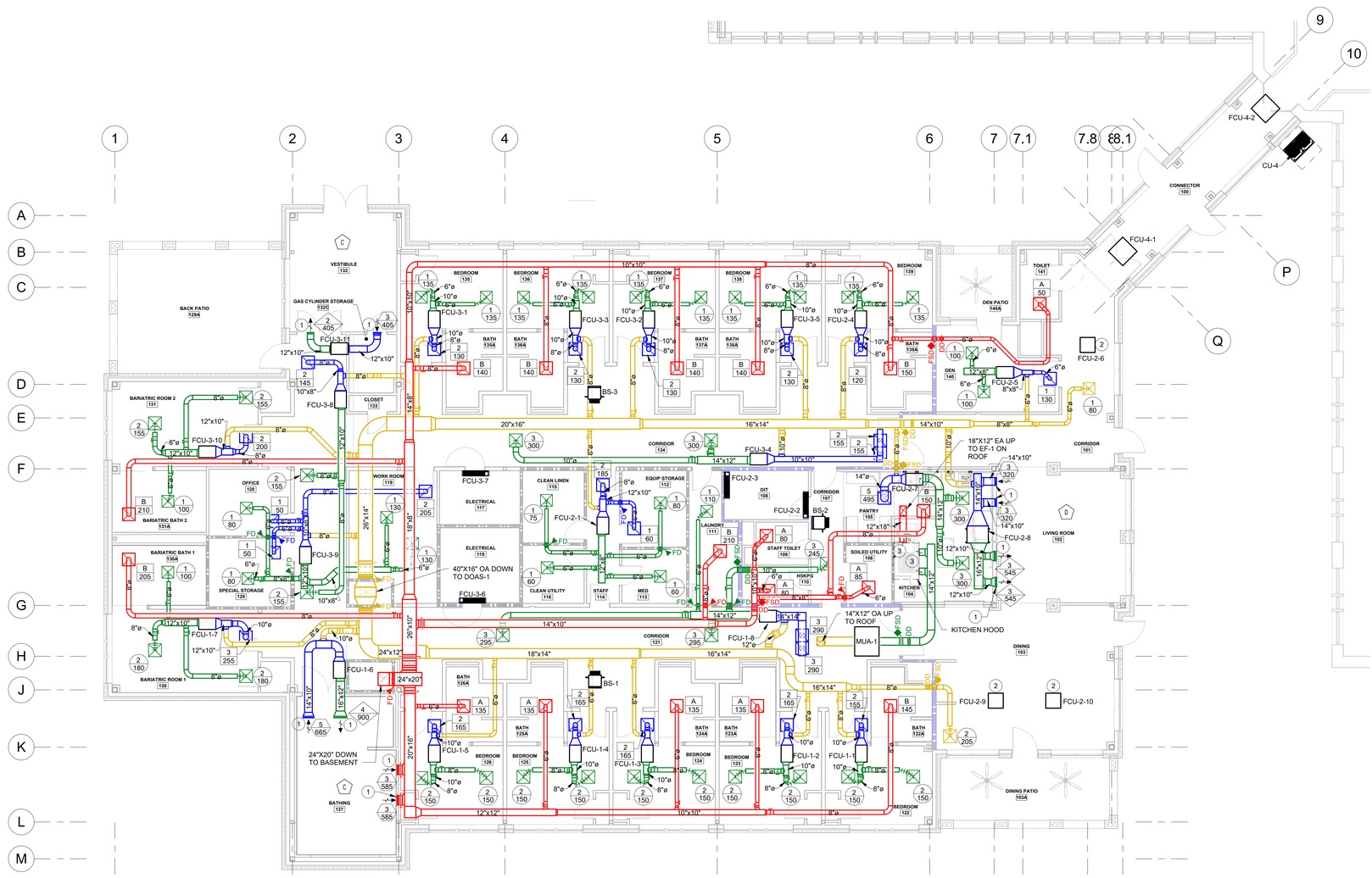

1 MECHANICAL - FIRST FLOOR - DUCTWORK PLAN
1/8" = 1'-0"

GENERAL NOTES

A. ALL DUCTS, PIPE, AND EQUIPMENT SHALL BE LATERALLY RESTRAINED TO COMPLY WITH THE STATE BUILDING CODE.

B. BEFORE FABRICATING ANY SHEET METAL DUCTWORK, COORDINATE LOCATION AND SIZE WITH SPRINKLER & PLUMBING PIPING, CONDUITS, LIGHT FIXTURES, STRUCTURAL, ETC. PLANS ARE SCHEMATIC AND ARE NOT SHOP DRAWINGS. SUBMIT DUCTWORK COORDINATION DRAWINGS, AS SPECIFIED.

C. BEFORE SUBMITTING SHOP DRAWINGS, COORDINATE VOLTAGES AVAILABLE FOR MECHANICAL EQUIPMENT AND PROVISION OF ALL STARTERS AND DISCONNECT SWITCHES WITH ELECTRICAL CONTRACTOR.

D. MECHANICAL CONTRACTOR SHALL MAKE PROVISIONS FOR PROVIDING A CONDENSATE DRAIN TRAP A MINIMUM OF 4" DEEP OR 1/2" PLUS THE STATIC PRESSURE OF THE UNIT SUPPLY FAN.

E. ALL EQUIPMENT SHALL BE U.L. LISTED.

F. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL MECHANICAL EQUIPMENT; PROVIDE DISCONNECTS, WIRING AND CONDUIT, INSTALL STARTERS, AND MOUNT AND WIRE VARIABLE SPEED DRIVES, UNLESS OTHERWISE NOTED.

G. FIRE AND SMOKE DAMPERS SHALL BE INSTALLED IN COMPLETE ACCORDANCE WITH THE MANUFACTURER'S U.L. LISTING AND INSTALLATION INSTRUCTIONS. FIRE AND SMOKE DAMPERS SHALL HAVE SPECIFIC U.L. LISTING FOR THE CONSTRUCTION IN WHICH THEY ARE INSTALLED. PROVIDE DYNAMIC FIRE DAMPERS.

H. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO ELIMINATE CONFLICT WITH OTHER TRADES. ANY WORK INSTALLED BY THIS CONTRACTOR THAT RESULTS IN CONFLICT, DUE TO LACK OF COORDINATION BETWEEN TRADES, SHALL BE CHANGED AS DIRECTED BY THE ARCHITECT/ENGINEER WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.

I. SMOKE DETECTORS SHALL BE FURNISHED BY THE FIRE ALARM CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED. PROVIDE DUCT ACCESS DOOR AT EACH DETECTOR. INSTALL DETECTORS IN COMPLETE ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

J. COORDINATE HEIGHT OF ROOF CURBS AND ROOF SUPPORTS WITH ROOFING CONTRACTOR.

K. MECHANICAL CONTRACTOR SHALL COORDINATE ROUTING OF DUCTWORK TO ENSURE DUCTWORK DOES NOT PASS OVER ELECTRICAL PANELS.

L. THE DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED IS INTENDED FOR GENERAL REFERENCE ONLY.

M. ALL SHUTDOWNS SHALL BE COORDINATED AND APPROVED THROUGH THE OWNERS REPRESENTATIVE AND WILL REQUIRE ADVANCE NOTICE OF ONE WEEK. THIS TIME LENGTH MAY BE LONGER OR SHORTER FOR SOME SHUTDOWNS AND SHALL BE AT THE OWNERS DISCRETION.

N. LEAVE A MINIMUM CLEARANCE OF 2 INCHES ABOVE DUCTS INSTALLED IN RATED PARTITIONS TO ALLOW SPACE FOR THE GENERAL CONTRACTOR TO SEAL THE WALL ABOVE THE DUCTS. DO NOT INSTALL FLEXIBLE DUCT THROUGH RATED WALLS, BARRIERS OR PARTITIONS.

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P. MECHANICAL CONTRACTOR SHALL INSTALL MANUAL VOLUME DAMPERS ON ALL BRANCH DUCTWORK CONNECTIONS.

Q. CONSTRUCTION DEBRIS SHALL BE REMOVED DAILY.

NEW WORK KEYED NOTES

1. MOUNT SUPPLY DIFFUSER AND RETURN REGISTER AS HIGH AS POSSIBLE IN FINISHED SOFFIT. SEE ARCHITECTURAL PLANS FOR EXACT ELEVATION.
2. INSTALL CASSETTE UNIT SECURELY WITH CEILING GRID.
3. INSTALL DUCT AND CONNECT TO KITCHEN HOOD AS PER HOOD MANUFACTURER INSTRUCTIONS.

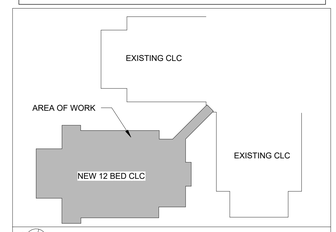
ALTERNATE NOTE:

C PROVIDE 2'X2' SUPPLY DIFFUSERS AND RETURN AND EXHAUST GRILLES IN VESTIBULE AND BATHING ROOM CEILING IF ALTERNATE C IS ACCEPTED.

D PROVIDE 2X2 SUPPLY DIFFUSERS AND RETURN GRILLES IN LIVING ROOM CEILING IF ALTERNATE D IS ACCEPTED.

WALL RATING LEGEND

- 2 HR FIRE RATED
- 1 HR FIRE RATED
- 1 HR SMOKE BARRIER
- SMOKE PARTITION



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE
8 0 4 8 16 32
(in Feet)
1 inch = 8 ft.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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STAMP Gregory A. Turner

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - FIRST FLOOR - DUCTWORK PLAN
Approved:
Phase: BID DOCUMENTS
FULLY SPRINKLERED
Project Title: CONSTRUCT TDVV CLC 12 BEDS
Location: 180 MARTIN DR, CARROLLTON, GA 30117
Issue Date: 12/16/2024
Checked: GAT
Drawn: CAS
Project Number: 508-349
Building Number:
Drawing Number: MH110

Autodesk Docs://22.9003 - VA Atlanta Tinka Davis CLC/47782 - CE Central Model.rvt
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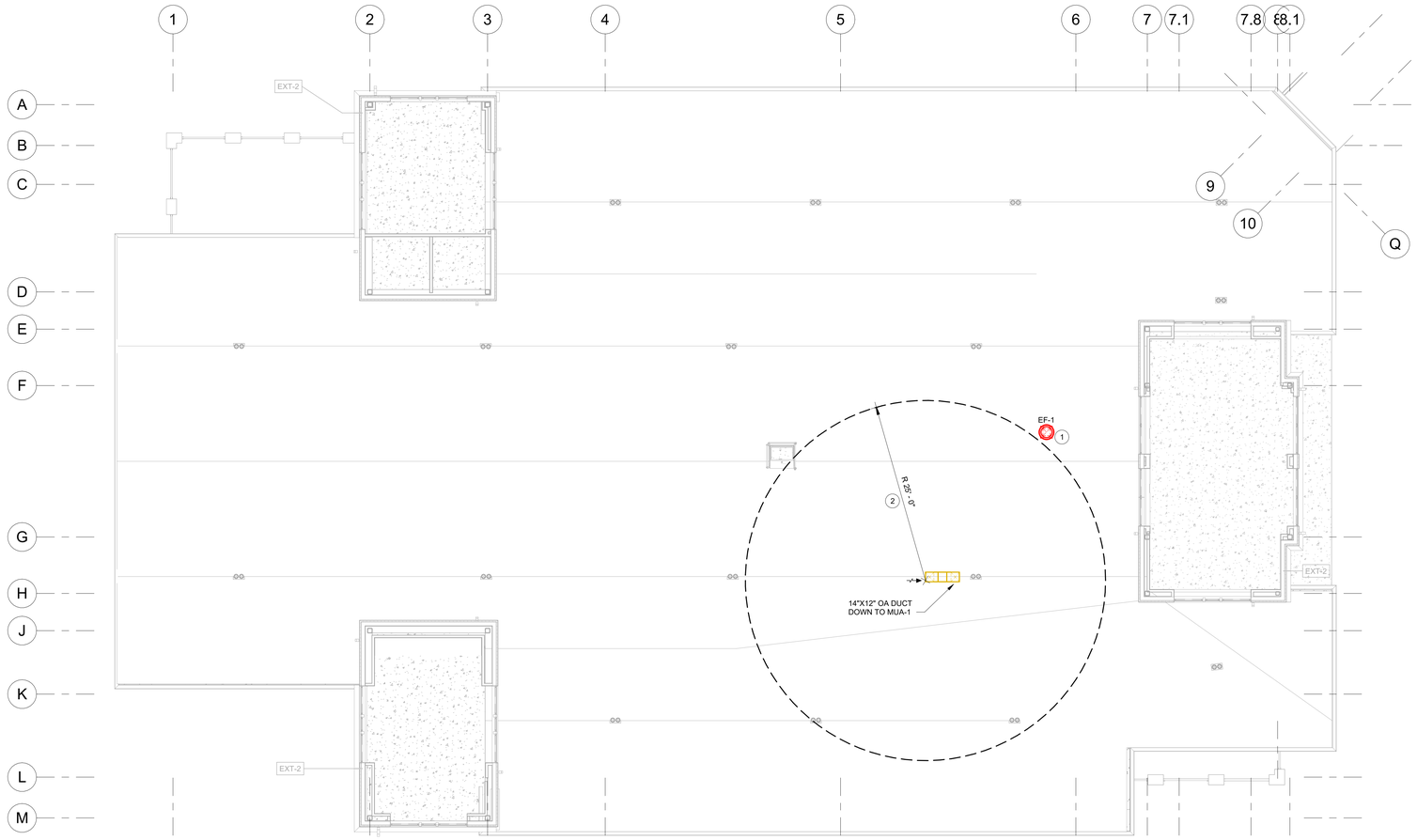


1 MECHANICAL - ROOF PLAN - NEW WORK
1/8" = 1'-0"

GENERAL NOTES

A. ALL DUCTS, PIPE, AND EQUIPMENT SHALL BE LATERALLY RESTRAINED TO COMPLY WITH THE STATE BUILDING CODE.

B. BEFORE FABRICATING ANY SHEET METAL DUCTWORK, COORDINATE LOCATION AND SIZE WITH SPRINKLER & PLUMBING PIPING, CONDUITS, LIGHT FIXTURES, STRUCTURAL, ETC. PLANS ARE SCHEMATIC AND ARE NOT SHOP DRAWINGS. SUBMIT DUCTWORK COORDINATION DRAWINGS, AS SPECIFIED.

C. BEFORE SUBMITTING SHOP DRAWINGS, COORDINATE VOLTAGES AVAILABLE FOR MECHANICAL EQUIPMENT AND PROVISION OF ALL STARTERS AND DISCONNECT SWITCHES WITH ELECTRICAL CONTRACTOR.

D. MECHANICAL CONTRACTOR SHALL MAKE PROVISIONS FOR PROVIDING A CONDENSATE DRAIN TRAP A MINIMUM OF 4" DEEP OR 1/2" PLUS THE STATIC PRESSURE OF THE UNIT SUPPLY FAN.

E. ALL EQUIPMENT SHALL BE U.L. LISTED.

F. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL MECHANICAL EQUIPMENT; PROVIDE DISCONNECTS, WIRING AND CONDUIT, INSTALL STARTERS, AND MOUNT AND WIRE VARIABLE SPEED DRIVES, UNLESS OTHERWISE NOTED.

G. FIRE AND SMOKE DAMPERS SHALL BE INSTALLED IN COMPLETE ACCORDANCE WITH THE MANUFACTURER'S U.L. LISTING AND INSTALLATION INSTRUCTIONS. FIRE AND SMOKE DAMPERS SHALL HAVE SPECIFIC U.L. LISTING FOR THE CONSTRUCTION IN WHICH THEY ARE INSTALLED. PROVIDE DYNAMIC FIRE DAMPERS.

H. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO ELIMINATE CONFLICT WITH OTHER TRADES. ANY WORK INSTALLED BY THIS CONTRACTOR THAT RESULTS IN CONFLICT, DUE TO LACK OF COORDINATION BETWEEN TRADES, SHALL BE CHANGED AS DIRECTED BY THE ARCHITECT/ENGINEER WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.

I. SMOKE DETECTORS SHALL BE FURNISHED BY THE FIRE ALARM CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED. PROVIDE DUCT ACCESS DOOR AT EACH DETECTOR. INSTALL DETECTORS IN COMPLETE ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

J. COORDINATE HEIGHT OF ROOF CURBS AND ROOF SUPPORTS WITH ROOFING CONTRACTOR.

K. MECHANICAL CONTRACTOR SHALL COORDINATE ROUTING OF DUCTWORK TO ENSURE DUCTWORK DOES NOT PASS OVER ELECTRICAL PANELS.

L. THE DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED IS INTENDED FOR GENERAL REFERENCE ONLY.

M. ALL SHUTDOWNS SHALL BE COORDINATED AND APPROVED THROUGH THE OWNERS REPRESENTATIVE AND WILL REQUIRE ADVANCE NOTICE OF ONE WEEK. THIS TIME LENGTH MAY BE LONGER OR SHORTER FOR SOME SHUTDOWNS AND SHALL BE AT THE OWNERS DISCRETION.

N. LEAVE A MINIMUM CLEARANCE OF 2 INCHES ABOVE DUCTS INSTALLED IN RATED PARTITIONS TO ALLOW SPACE FOR THE GENERAL CONTRACTOR TO SEAL THE WALL ABOVE THE DUCTS. DO NOT INSTALL FLEXIBLE DUCT THROUGH RATED WALLS, BARRIERS OR PARTITIONS.

O. PROVIDE REMOVABLE ACCESS DOORS AT ALL MOTOR OPERATED DAMPERS, FIRE DAMPERS, SMOKE DAMPERS, DUCT COILS, SMOKE DETECTORS, AND SIMILAR ITEMS REQUIRING MAINTENANCE OR ADJUSTMENT.

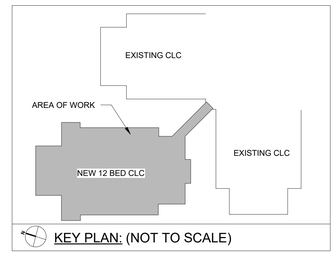
P. MECHANICAL CONTRACTOR SHALL INSTALL MANUAL VOLUME DAMPERS ON ALL BRANCH DUCTWORK CONNECTIONS.

Q. CONSTRUCTION DEBRIS SHALL BE REMOVED DAILY.

NEW WORK KEYED NOTES

1 NEW UPLAST UTILTY EXHAUST FAN TO SERVE KITCHEN HOOD. PROVIDE ROOF CURB PER DETAIL 1/1/M002.

2 OUTSIDE AIR INTAKE SHOULD BE INSTALLED 25 FEET FROM ANY EXHAUST OR VENTS.



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE
8 0 4 8 16 32
(in Feet)
1 inch = 8 ft.

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - LOWER ROOF PLAN

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: GAT | Drawn: CAS

Project Number: 508-349

Building Number:

Drawing Number: MH120

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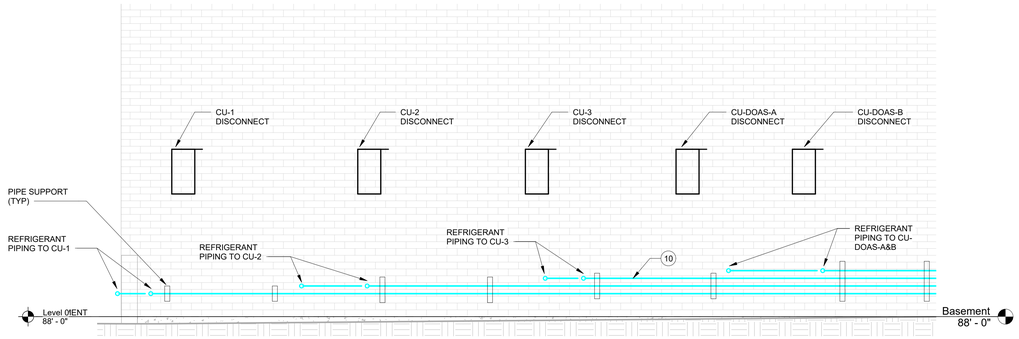
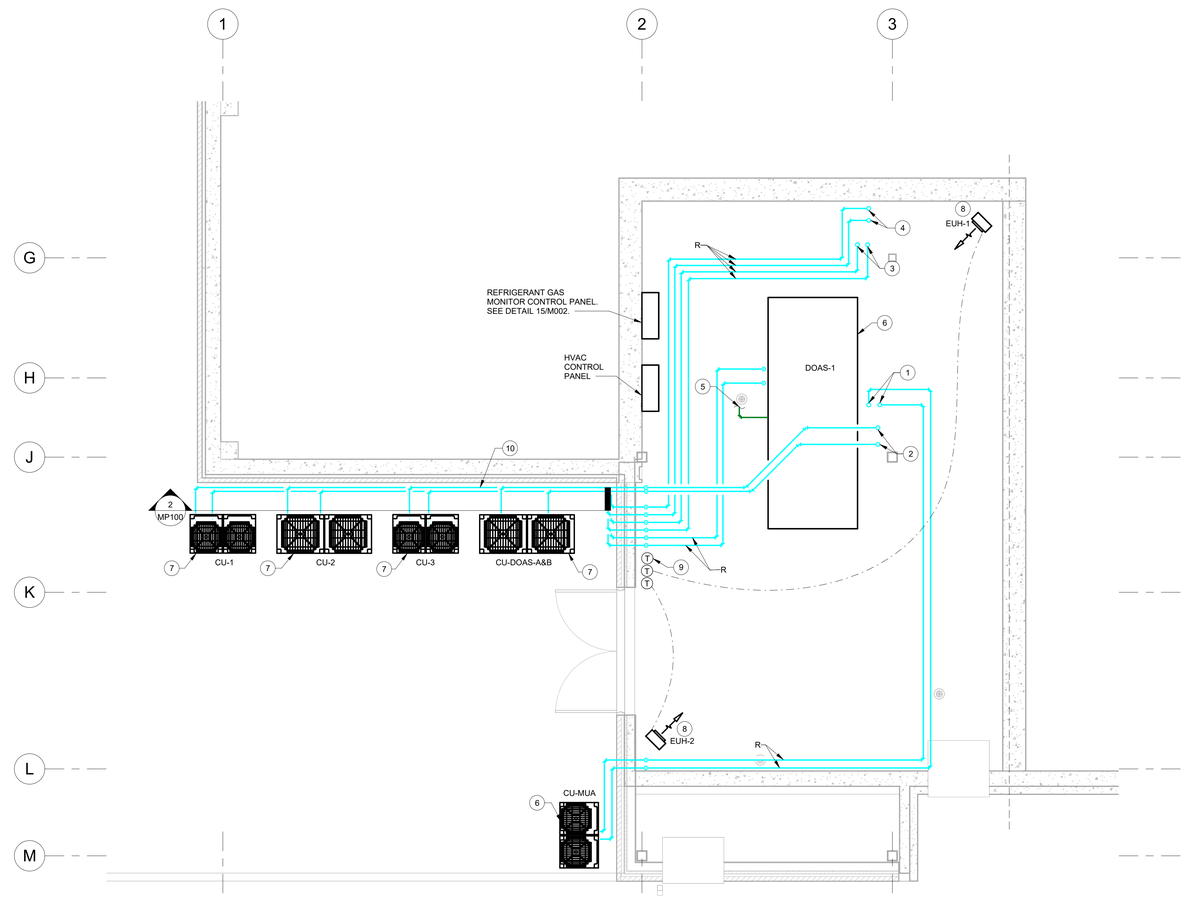


2 MECHANICAL - BASEMENT - REFRIGERANT PIPING ELEVATION VIEW
1/2" = 1'-0"



1 MECHANICAL - BASEMENT FLOOR - PIPING PLAN
1/4" = 1'-0"

GENERAL NOTES

A. ALL PIPE AND EQUIPMENT SHALL BE LATERALLY RESTRAINED TO COMPLY WITH THE STATE BUILDING CODE.

B. BEFORE SUBMITTING SHOP DRAWINGS, COORDINATE VOLTAGES AVAILABLE FOR MECHANICAL EQUIPMENT AND PROVISION OF ALL STARTERS AND DISCONNECT SWITCHES WITH ELECTRICAL CONTRACTOR.

C. MECHANICAL CONTRACTOR SHALL MAKE PROVISIONS FOR INSTALLING A CONDENSATE DRAIN TRAP A MINIMUM OF 4" DEEP OR 1/2" PLUS THE STATIC PRESSURE OF THE UNIT SUPPLY FAN OF MUA-1 & DOAS-1 UNITS.

D. ALL EQUIPMENT SHALL BE U.L. LISTED.

E. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL MECHANICAL EQUIPMENT; PROVIDE DISCONNECTS, WIRING AND CONDUIT, INSTALL STARTERS, AND MOUNT AND WIRE VARIABLE SPEED DRIVES, UNLESS OTHERWISE NOTED.

F. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO ELIMINATE CONFLICT WITH OTHER TRADES. ANY WORK INSTALLED BY THIS CONTRACTOR THAT RESULTS IN CONFLICT, DUE TO LACK OF COORDINATION BETWEEN TRADES, SHALL BE CHANGED AS DIRECTED BY THE ARCHITECT/ENGINEER WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.

G. COORDINATE HEIGHT OF ROOF CURBS AND ROOF SUPPORTS WITH ROOFING CONTRACTOR.

H. THE DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED IS INTENDED FOR GENERAL REFERENCE ONLY.

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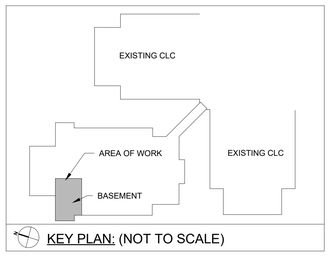
J. CONSTRUCTION DEBRIS SHALL BE REMOVED DAILY.

K. SIZE AND ROUTE REFRIGERANT PIPES PER MANUFACTURER INSTRUCTIONS.

NEW WORK KEYED NOTES

1. REFRIGERANT PIPING UP TO MUA-1 ON FLOOR ABOVE.
2. REFRIGERANT PIPING UP TO BS-1 ON FLOOR ABOVE.
3. REFRIGERANT PIPING UP TO BS-2 ON FLOOR ABOVE.
4. REFRIGERANT PIPING UP TO BS-3 ON FLOOR ABOVE.
5. ROUTE NEW 1-1/4" CONDENSATE DRAIN PIPING TO FLOOR DRAIN. PROVIDE 6" AIR GAP.
6. PROVIDE WITH 4" CONCRETE HOUSEKEEPING PAD.
7. PROVIDE WITH 4" CONCRETE PAD.
8. MOUNT ELECTRIC UNIT HEATERS AS HIGH AS POSSIBLE.
9. PROVIDE DDC TEMPERATURE SENSOR IN SPACE FOR TEMPERATURE MONITORING AT BAS IN MAIN CLINIC.
10. NEW REFRIGERANT PIPING PROVIDED AND INSTALLED BY MC TO BE ROUTED AND STACKED ALONG EXTERIOR WALL. SEE DETAIL 14/M002 FOR MOUNTING DETAILS.



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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - BASEMENT FLOOR - PIPING PLAN

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: GAT | Drawn: CAS

Project Number: 508-349

Building Number:

Drawing Number: MP100

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC\4792 - CE Central Model.rvt

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VA FORM 08 - 6231

GENERAL NOTES

A. ALL PIPE AND EQUIPMENT SHALL BE LATERALLY RESTRAINED TO COMPLY WITH THE STATE BUILDING CODE.

B. BEFORE SUBMITTING SHOP DRAWINGS, COORDINATE VOLTAGES AVAILABLE FOR MECHANICAL EQUIPMENT AND PROVISION OF ALL STARTERS AND DISCONNECT SWITCHES WITH ELECTRICAL CONTRACTOR.

C. MECHANICAL CONTRACTOR SHALL MAKE PROVISIONS FOR INSTALLING A CONDENSATE DRAIN TRAP A MINIMUM OF 4" DEEP OR 1/2" PLUS THE STATIC PRESSURE OF THE UNIT SUPPLY FAN OF MUA-1 & DOAS-1 UNITS.

D. ALL EQUIPMENT SHALL BE U.L. LISTED.

E. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL MECHANICAL EQUIPMENT; PROVIDE DISCONNECTS, WIRING AND CONDUIT, INSTALL STARTERS, AND MOUNT AND WIRE VARIABLE SPEED DRIVES, UNLESS OTHERWISE NOTED.

F. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO ELIMINATE CONFLICT WITH OTHER TRADES. ANY WORK INSTALLED BY THIS CONTRACTOR THAT RESULTS IN CONFLICT, DUE TO LACK OF COORDINATION BETWEEN TRADES, SHALL BE CHANGED AS DIRECTED BY THE ARCHITECT/ENGINEER WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.

G. COORDINATE HEIGHT OF ROOF CURBS AND ROOF SUPPORTS WITH ROOFING CONTRACTOR.

H. THE DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED IS INTENDED FOR GENERAL REFERENCE ONLY.

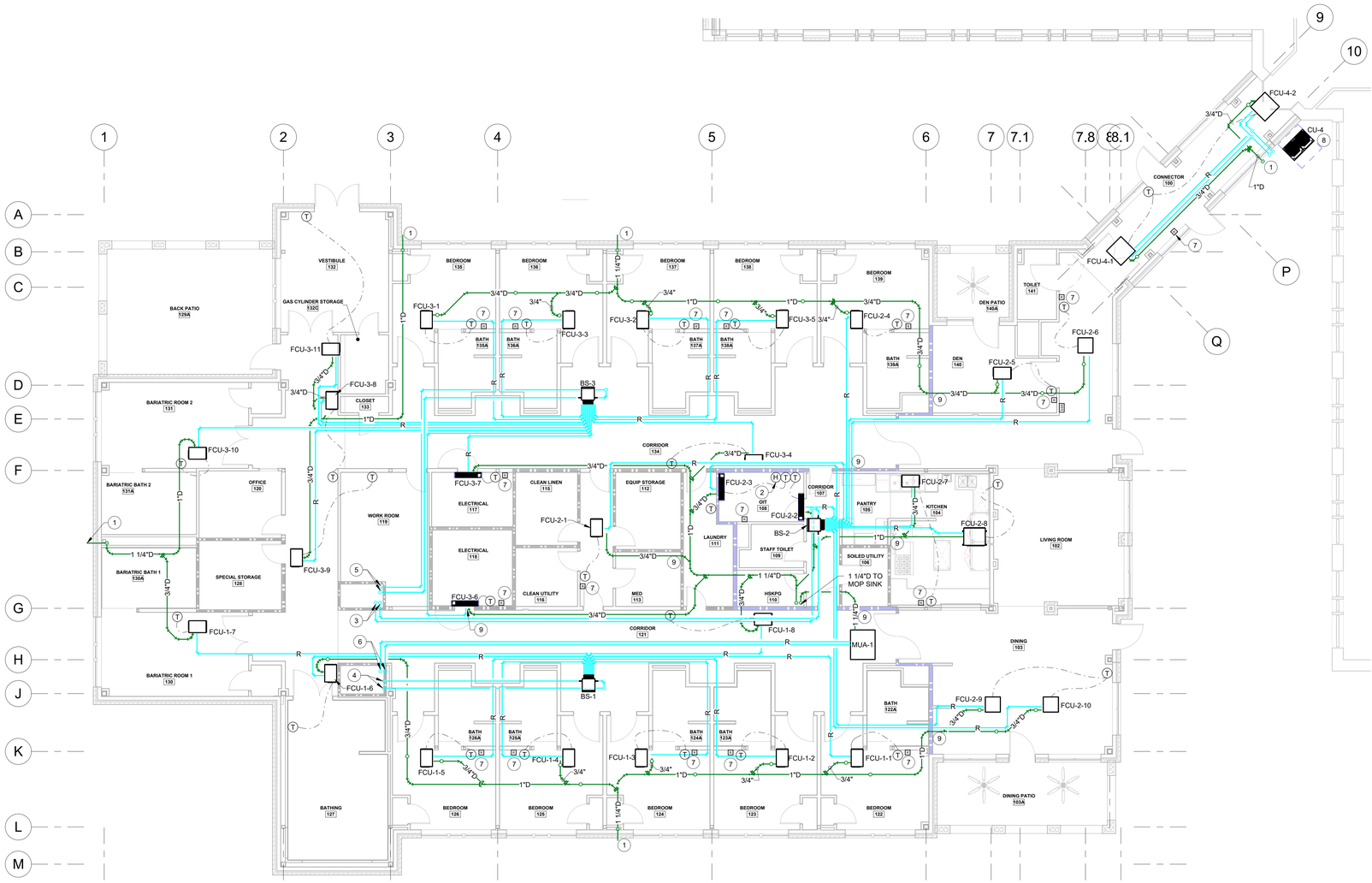
I. ALL SHUTDOWNS SHALL BE COORDINATED AND APPROVED THROUGH THE OWNERS REPRESENTATIVE AND WILL REQUIRE ADVANCE NOTICE OF ONE WEEK. THIS TIME LENGTH MAY BE LONGER OR SHORTER FOR SOME SHUTDOWNS AND SHALL BE AT THE OWNERS DISCRETION.

J. CONSTRUCTION DEBRIS SHALL BE REMOVED DAILY.

K. SIZE AND ROUTE REFRIGERANT PIPES PER MANUFACTURER INSTRUCTIONS.

NEW WORK KEYED NOTES

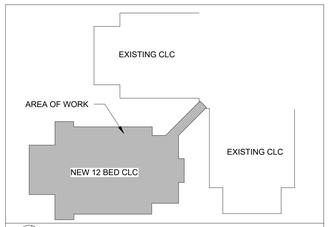
1. NEW 3/4" CONDENSATE DRAIN PIPING TO EXTERIOR WALL DOWN TO TERMINATE 6" ABOVE GRADE. PROVIDE NEW CONCRETE SPLASH BLOCK. SLOPE CONDENSATE DRAIN PIPING 1/8" PER LINEAR FOOT.
2. PROVIDE AND INSTALL WALL MOUNTED TEMPERATURE AND HUMIDITY SENSORS.
3. REFRIGERANT PIPING DOWN TO CU-1.
4. REFRIGERANT PIPING DOWN TO CU-2.
5. REFRIGERANT PIPING DOWN TO CU-3.
6. REFRIGERANT PIPING DOWN TO CU-MUA.
7. NEW REFRIGERANT SENSORS SHALL BE INSTALLED 18" AFF. SEE DETAIL 15/M002 FOR ADDITIONAL INFORMATION.
8. PROVIDE WITH 4" CONCRETE HOUSEKEEPING PAD.
9. ALL PIPE PENETRATIONS THROUGH FIRE/ SMOKE RATED BARRIERS SHALL COMPLY WITH ALL UL LISTINGS.



1 MECHANICAL - FIRST FLOOR - PIPING PLAN
1/8" = 1'-0"

WALL RATING LEGEND

- 2 HR FIRE RATED
- 1 HR FIRE RATED
- 1 HR SMOKE BARRIER
- SMOKE PARTITION



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE

8 0 4 8 16 32

(in Feet)
1 inch = 8 ft.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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ELECTRICAL SYMBOLS

(NOTE: SYMBOLS WITHIN THIS SCHEDULE ARE REPRESENTATIVE OF THOSE TYPICALLY FOUND ON THE DRAWINGS. ALL SYMBOLS MAY NOT APPEAR ON THIS SET OF DRAWINGS.)

POWER

- SIMPLEX RECEPTACLE MOUNTED 18" AFF TO CENTER OF DEVICE. NEMA 5-20R UNLESS OTHERWISE INDICATED.
- DUPLEX RECEPTACLE, MOUNTED 18" AFF TO CENTER OF DEVICE. NEMA 5-20R UNLESS OTHERWISE INDICATED. SLASH INDICATES CONNECTED TO THE ESSENTIAL ELECTRICAL SYSTEM (ESS).
- TWO DUPLEX RECEPTACLES IN 2-GANG BOX, MOUNTED 18" AFF TO CENTER OF DEVICE. SLASH INDICATES CONNECTED TO THE ESSENTIAL ELECTRICAL SYSTEM (ESS).
- DUPLEX RECEPTACLE, MOUNTED 48" AFF TO CENTER OF OUTLET OR 2" FROM BOTTOM OF OUTLET TO TOP OF BACKSPLASH OR COUNTERTOP. SLASH INDICATES CONNECTED TO THE ESSENTIAL ELECTRICAL SYSTEM (ESS).
- TWO DUPLEX RECEPTACLES IN 2-GANG BOX, MOUNTED 48" AFF TO CENTER OF OUTLET OR 2" FROM BOTTOM OF OUTLET TO TOP OF BACKSPLASH OR COUNTERTOP. SLASH INDICATES CONNECTED TO THE ESSENTIAL ELECTRICAL SYSTEM (ESS).
- DUPLEX RECEPTACLE OUTLET. CEILING MOUNTED.
- DUPLEX RECEPTACLE OUTLET. FLUSH FLOOR MOUNTED.
- SPECIAL RECEPTACLE OUTLET. NEMA CONFIGURATION AS INDICATED.
- SPECIAL RECEPTACLE OUTLET. FLUSH FLOOR MOUNTED. NEMA CONFIGURATION AS INDICATED.

MODIFIERS FOR RECEPTACLES:
- EWC = ELECTRIC WATER COOLER POWER CONNECTION, PROVIDE GROUND FAULT CIRCUIT INTERRUPTER DEVICE. INSTALL DEVICE SO IT IS CONCEALED BEHIND ENCLOSURE, COORDINATE WITH PLUMBING.
- G = GROUND FAULT CIRCUIT INTERRUPTER.
- P = PEDESTAL
- TR = TAMPER RESISTANT
- TV = TELEVISION, SEE DETAIL.
- WP = WEATHERPROOF "IN-USE" COVER, PROVIDE GROUND FAULT CIRCUIT INTERRUPTER DEVICE.

- SURFACE MOUNTED MULTIOUTLET ASSEMBLY. 46" AFF OR 8" ABOVE COUNTER OR 2" ABOVE BACKSPLASH. SHADED AREA INDICATES RECEPTACLE.
- LH2A-1 — BRANCH OR FEEDER CIRCUIT HOMERUN TO PANEL BOARD, SWITCHBOARD, MOTOR CONTROL CENTER, ETC. DESIGNATION DENOTES PANELBOARD, SWITCHBOARD, MOTOR CONTROL CENTER, ETC., AND OVERCURRENT PROTECTION DEVICE NUMBER.
- 4/350 — ON RISERS, DESIGNATION DENOTES QUANTITY OF CURRENT CARRYING CONDUCTORS AND FEEDER AMPACITY. SEE FEEDER SCHEDULE.
- WIRING SYSTEM BELOW FLOOR OR BELOW GRADE.
- WIRING SYSTEM CONCEALED IN OR ABOVE CEILING OR IN WALL.
- WIRING SYSTEM EXPOSED.
- WIRING SYSTEM TURNED DOWN.
- WIRING SYSTEM TURNED UP.
- SHOWN TO CLARIFY THAT DEVICES/LUMINAIRES ON THE SAME CIRCUIT ARE CONTROLLED SEPARATELY.
- CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE.
- PANELBOARD FLUSH MOUNTED.
- PANELBOARD SURFACE MOUNTED.

CRLP — PANELBOARD NAMING CONVENTION
- P = PANELBOARD
- L = 120/208 VOLT
- LS = LIFE SAFETY BRANCH
- CR = CRITICAL BRANCH
- EQ = EQUIPMENT BRANCH
- N = NORMAL BRANCH

- RA — REMOTE ALARM PANEL FOR ISOLATED POWER PANEL BOARD WALL MOUNTED AT 5'-0" AFF.
- GA — GENERATOR REMOTE ALARM ANNUNCIATOR. WALL MOUNTED AT 5'-0" AFF.
- J — JUNCTION OR PULL BOX. W = WEATHERPROOF.
- J — JUNCTION BOX AND CONNECTION TO EQUIPMENT OR TERMINAL STRIPS.
- F — CONNECTION TO EXHAUST FAN. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- C — CEILING FAN 120V. MANUFACTURER (HUNTER#21252 GREEN FINISH W/ INTEGRATED 240W LIGHT FIXTURE)
- M — CONNECTION TO FAN COIL UNIT. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- S^M — MOTOR RATED SWITCH.
- 2 — MOTOR STARTER. NUMERAL INDICATES NEMA SIZE.
- 30 / 2 — COMBINATION MOTOR STARTER WITH CIRCUIT BREAKER. TOP NUMERAL INDICATES CIRCUIT BREAKER SIZE AND BOTTOM NUMERAL INDICATES NEMA STARTER SIZE.
- 30 / 2 — COMBINATION MOTOR STARTER WITH FUSED SWITCH. TOP NUMERAL INDICATES FUSETRON AMPERE RATING AND BOTTOM NUMERAL INDICATES NEMA STARTER SIZE.
- 30 — NON-FUSIBLE SAFETY SWITCH. NUMERAL INDICATES AMPERE RATING.
- 15 — FUSED SAFETY SWITCH. NUMERAL INDICATES FUSE RATING.
- 30 — ENCLOSED CIRCUIT BREAKER. NUMERAL INDICATES TRIP AMPERE RATING.
- 208V, 3Ø / 460V, 3Ø — MOTOR CONNECTION. SPECIAL VOLTAGES AS SHOWN ON DRAWING. EF-1, 10 HP. (HORSEPOWER RATING / EQUIPMENT IDENTIFICATION)
- 120V, 1Ø
- 75KVA T — DRY TYPE TRANSFORMER.
- NEC REQUIRED GROUND.
- LIGHTNING PROTECTION SYSTEM GROUND ROD.
- AT — LIGHTNING PROTECTION SYSTEM AIR TERMINAL.
- SYMBOL LOCATION LEADER.

RM / RM (1) — DASHED SYMBOLS INDICATE EXISTING DEVICES.
- EX = EXISTING DEVICE.
- RL = EXISTING DEVICE TO BE RELOCATED, EXTEND BRANCH CIRCUIT WIRING.
- RLD = RELOCATED DEVICE SHOWN IN FINAL LOCATION.
- RM = EXISIITNG DEVICE TO REMAIN.
- RP = EXISITING DEVICE TO BE REPLACED WITH NEW DEVICE IN SAME LOCATION USING NEW DEVICE IN SAME LOCATION USING EXISTING BRANCH CIRCUIT WIRING.
- RPD = NEW DEIVCE THAT REPLACED EXISTING DEVICE AND IS CONNECTED TO EXISTING BRANCH CIRCUIT WIRING.
- RV = EXISTING DEVICE TO BE REMOVED.

LIGHTING

- LUMINAIRE, CEILING MOUNTED, CONNECTED TO THE NORMAL POWER SYSTEM (UNLESS OTHERWISE NOTED). SEE SCHEDULE FOR TYPE (*). SEE ARCHITECTURAL RCP FOR EXACT LOCATION AND CEILING TYPE. SLASH INDICATES CONNECTED TO THE CRITICAL BRANCH. HALF-SHADED INDICATES CONNECTED TO THE EMERGENCY OR LIFE SAFETY BRANCH; VIA EMERGENCY GENERATOR SET OR BATTERY BALLAST, SEE PLANS.
- LED STRIP LUMINAIRE. CEILING MOUNTED OR SUSPENDED 8'-0" AFF TO BOTTOM OF LUMINAIRE, CONNECTED TO NORMAL POWER. SLASH INDICATES CONNECTED TO THE CRITICAL BRANCH. HALF-SHADED INDICATES CONNECTED TO THE EMERGENCY OR LIFE SAFETY BRANCH; VIA EMERGENCY GENERATOR SET OR BATTERY BALLAST, SEE PLANS.
- CEILING OR WALL MOUNTED EXIT SIGN. PROVIDE NUMBER OF FACES AND CHEVRONS AS INDICATED ON DRAWINGS. SEE SCHEDULE FOR TYPE (*).
- EMERGENCY LIGHTING FIXTURE, CEILING-MOUNTED OR WALL-MOUNTED AT 7'-6" AFF UNLESS NOTED OTHERWISE. CONNECT UNSWITCHED.
- REMOTE EMERGENCY EGRESS TWIN-LAMP UNIT.
- LED LIGHTING FIXTURE, CEILING OR WALL MOUNTED, CONNECTED TO NORMAL POWER. SEE SCHEDULE FOR TYPE (*). SEE ARCHITECTURAL RCP FOR EXACT LOCATION AND CEILING TYPE. SLASH INDICATES CONNECTED TO THE CRITICAL BRANCH. HALF-SHADED INDICATES CONNECTED TO LIFE SAFETY BRANCH.
- LED LIGHTING WALLWASH FIXTURE, CEILING MOUNTED. SEE SCHEDULE FOR TYPE (*).
- LED LIGHTING FIXTURE, WALL MOUNTED OR UNDER CABINET, CONNECTED TO NORMAL POWER. SLASH INDICATES CONNECTED TO THE CRITICAL BRANCH. SEE SCHEDULE FOR TYPE (*).
- TRACK LIGHTING FIXTURE. SEE PLANS/SCHEDULE FOR TRACK LENGTH AND NUMBER OF TRACK HEADS. SEE SCHEDULE FOR TYPE (*).
- POLE MOUNTED LIGHTING FIXTURE. SEE SCHEDULE FOR TYPE (*).
- POLE MOUNTED LIGHTING FIXTURE. SEE SCHEDULE FOR TYPE (*).

SWITCHES

- S — SINGLE POLE SWITCH, MOUNTED 48" AFF TO CENTER OF DEVICE.
- SS — TWO SINGLE POLE SWITCHES IN A 2-GANG BOX, MOUNTED 48" AFF TO CENTER OF DEVICE. PROVIDE DIVIDER FOR DIFFERENT VOLTAGES OR BRANCHES.
- SSS — THREE SINGLE POLE SWITCHES IN A 3-GANG BOX, MOUNTED 48" AFF TO CENTER OF DEVICE. PROVIDE DIVIDER(S) FOR DIFFERENT VOLTAGES OR BRANCHES.
- S_S — TWO SINGLE POLE SWITCHES IN A 2-GANG BOX, MOUNTED 48" AFF TO CENTER OF DEVICE, TO COMPLY WITH ENERGY CODE. EITHER SWITCH INBOARD AND OUTBOARD LAMPS SEPARATELY OR STEP-DIM BOTH LAMPS TO 50%.

MODIFIERS FOR SWITCHES:
- 3 = THREE WAY
- 4 = FOUR WAY
- D = DIMMER
- DT = DOUBLE THROW
- DVS = VACANCY SENSOR WITH DIMMER
- LV = LOW VOLTAGE
- OS = OCCUPANCY SENSOR
- T = TIMER
- a,b,c = MULTIPLE SWITCH LEGS

- PE — PHOTO ELECTRIC CELL MOUNTED ON CONDUIT STUBBED 6" ABOVE ROOF, FACING NORTH.
- TC — TIME CLOCK. PROVIDE POWER CIRCUIT AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE.
- OS — DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR. PROVIDE ONE POWER PACK FOR EACH SENSOR. COORDINATE WIRING REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- LRP — LIGHTING RELAY PANEL.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR TO CENTERLINE OF DEVICE.
C	CONDUIT
COND	CONDENSER.
EC	ELECTRICAL CONTRACTOR
EVAP	EVAPORATOR.
FLA	FULL LOAD AMPERES.
FRZR	FREEZER
HW#	HEADWALL. SEE PLAN FOR NUMBER.
LTG	LIGHTING.
MCA	MINIMUM CIRCUIT AMPACITY.
MCB	MAIN CIRCUIT BREAKER.
MLO	MAIN LUGS ONLY.
MOCP	MAXIMUM OVERCURRENT PROTECTION.
MTD	MOUNTED
NL	NIGHT LIGHTING, 24 HOUR, OPERATION. WIRE AHEAD OF ALL LOCAL SWITCHES.
OC	ON CENTER.
PC#	POWER COLUMN. SEE PLAN FOR NUMBER.
PNL	PANEL
PTS	PNEUMATIC TUBE STATION.
REC	RECEPTACLE.
REF	REFRIGERATOR
SE	SERVICE ENTRANCE
SPD	SURGE PROTECTIVE DEVICE
TTB	TELEPHONE TERMINAL BOARD.
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VSD	VARIABLE SPEED DRIVE.
+60"	DIMENSION INDICATES HEIGHT, AFF, AT WHICH DEVICE IS TO BE MOUNTED.
(N)	NEW EQUIPMENT.
(E)	EXISTING EQUIPMENT.
(RV)	REMOVE EQUIPMENT.
XFMR	TRANSFORMER

GENERAL PROJECT NOTES

A. THE DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED, IS INTENDED FOR REFERENCE PURPOSES ONLY.

B. ALL POWER OUTAGES SHALL BE COORDINATED AND APPROVED THROUGH THE OWNERS' REPRESENTATIVE AND REQUIRE ADVANCE NOTICE OF AT LEAST TWO (2) WEEKS. AT THE OWNER'S REPRESENTATIVE 'S DISCRETION, THIS TIME LENGTH MAY BE INCREASED OR DECREASED, DEPENDING ON THE SYSTEMS IMPACTED BY THE POWER OUTAGE.

C. CONSTRUCTION DEBRIS SHALL BE REMOVED DAILY, OR AT THE OWNER'S REPRESENTATIVE'S DISCRETION.

D. ALL ELECTRICAL MATERIAL, DEVICES, APPLIANCES, AND FIXED EQUIPMENT PROVIDED SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED AND STATE APPROVED THIRD PARTY TESTING AGENCY. FACTORY LISTED COMPONENTS ASSEMBLED TOGETHER SHALL BE REVIEWED AND LABELED AS AN ASSEMBLY BY THE STATE APPROVED TESTING AGENCY.

E. CONTRACTOR SHALL COORDINATE WITH THE FACILITY'S INFECTION CONTROL OFFICER TO VERIFY THAT APPROPRIATE SAFEGUARDS ARE BEING TAKEN TO PROTECT WORKERS INVOLVED IN DEMOLITION ACTIVITIES.

F. CONTRACTOR SHALL COORDINATE WITH THE FACILITY'S INFECTION CONTROL OFFICER TO VERIFY THAT APPROPRIATE PRECAUTIONS ARE BEING TAKEN TO PROTECT FACILITY STAFF AND PATIENTS DURING THE CONSTRUCTION ACTIVITIES.

G. ELECTRICAL WORK SHALL BE COMPLETED ACCORDING TO THE TRUE INTENT AND MEANING AS INDICATED IN THE CONTRACT DOCUMENTS. ANYTHING NOT ENTIRELY CLEAR SHALL BE EXPLAINED IF SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING.

H. CONNECTIONS OF FEEDERS AND BRANCH CIRCUITS TO SWITCHBOARDS/PANELBOARDS SHALL BE DONE IN A MANNER AS TO LIMIT THE OUTAGES TO AN ABSOLUTE MINIMUM.

I. ALL TERMINATIONS, CONDUCTORS, AND DEVICES SHALL BE 75 DEGREE CELCIUS RATED, TO THE EXTENT FEASIBLE; OTHERWISE COMPLY WITH NEC ARTICLE 110.14(C)(1).

J. ELECTRICAL CONTRACTOR SHALL NOT ROUTE WIRING CONNECTED TO THE LIFE SAFETY BRANCH OR THE CRITICAL BRANCH IN FLEXIBLE METAL RACEWAYS OR METAL SHEATHED CABLE ASSEMBLIES, UNLESS PERMITTED IN NEC ARTICLE 517.31(C)(3)(3).

K. ELECTRICAL CONTRACTOR SHALL PROVIDE RACEWAYS, JUNCTION BOXES, CABINETS, ETC., IN ORDER TO SEPARATE THE LIFE SAFETY BRANCH AND/OR THE CRITICAL BRANCH CIRCUIT WIRING FROM THE WIRING AND EQUIPMENT SERVED BY ANY OTHER BRANCHES OF POWER.

L. UNLESS OTHERWISE NOTED FOR MEDICAL EQUIPMENT, ELECTRICAL CONTRACTOR SHALL INSTALL ALL RACEWAY, BOXES, AND CABLES. THE CABLES, UNLESS OTHERWISE NOTED, SHALL BE PROVIDED BY THE MEDICAL EQUIPMENT VENDOR.

M. ELECTRICAL WORK SHALL BE COMPLETED ACCORDING TO THE PHASES SHOWN ON THE ARCHITECTURAL PLANS OR AS ESTABLISHED IN THE "GENERAL CONDITIONS".

N. THE EQUIPMENT GROUNDING TERMINAL BUSES OF THE NORMAL AND THE ESSENTIAL ELECTRICAL SYSTEM BRANCH-CIRCUIT PANELBOARDS, SERVING THE SAME INDIVIDUAL PATIENT CARE VICINITY, SHALL BE BONDED TOGETHER WITH A CONTINUOUS, INSULATED COPPER GROUNDING CONDUCTOR NOT SMALLER THAN 10 AWG.

O. A MAXIMUM OF THREE (3) 20 AMPERE, 1 POLE BRANCH CIRCUITS MAY BE COMBINED IN A COMMON HOMERUN SHARING A COMMON GROUNDED (NEUTRAL) OR WITH DEDICATED SEPARATE NEUTRALS (GROUNDED CONDUCTORS), FOR A TOTAL OF SIX CURRENT CARRYING CONDUCTORS. ALL BRANCH CIRCUITS LARGER THAN 20A SHALL BE SEPARATELY HOMERUN TO THE PANELBOARD.

P. ALL CONDUCTORS SHALL BE COPPER, RATED AT NOT LESS THAN 600 VOLTS. MINIMUM SIZE SHALL BE NO. 12 AWG, UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. #10 THRU #12 AWG CONDUCTORS SHALL BE SOLID. ALL INSULATION TYPES SHALL BE THWN OR THHN, UNLESS OTHERWISE NOTED.

Q. ELECTRICAL CONTRACTOR SHALL USE MULTI-POLE CIRCUIT BREAKERS FOR ALL BRANCH CIRCUITS WITH SHARED NEUTRALS (GROUNDED CONDUCTORS) PER NEC ARTICLE 210.4(B) OR PROVIDE SEPARATE NEUTRALS (GROUNDED CONDUCTORS) FOR EACH BRANCH CIRCUIT. PANELBOARD SCHEDULES SHALL INDICATE IF MULTI-POLE OR SINGLE-POLE CIRCUIT BREAKERS WERE USED.

R. ALL WORK ASSOCIATED WITH VOICE, DATA, CCTV, CATV, NURSE CALL, WI-FI, PUBLIC ADDRESS, SECURITY ACCESS, SHALL BE PROVIDED BY CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE BACK BOXES AND CONDUIT STUBBED-UP. TO ACCESSIBLE CORRIDOR CEILING SPACE, WITH PULL WIRE AND SYSTEM CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS.

S. ALL 20 AMPERE SINGLE PHASE BRANCH CIRCUIT WIRING, TO PREVENT A VOLTAGE DROP EXCEEDING 3%, SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

VOLTS	DISTANCE TO FIRST OUTLET	HOMERUN	REMAINDER OF CIRCUIT
120V	0' - 55'	#12	#12
	55' - 95'	#10	#12
	95' - 145'	#8	#12
	145' - 230'	#6	#12
208V	0' - 95'	#12	#12
	95' - 160'	#10	#12
	160' - 250'	#8	#12
277V	0' - 125'	#12	#12
	125' - 220'	#10	#12
	220' - 335'	#8	#12
480V	0' - 225'	#12	#12
	225' - 380'	#10	#12
	380' - 585'	#8	#12

T. A SHORT-CIRCUIT/ARC FLASH AND SELECTIVE COORDINATION STUDY SHALL BE PREPARED FOR THE ELECTRICAL OVERCURRENT DEVICES BEING INSTALLED FOR THIS PROJECT. FINAL FIELD SETTINGS AND MODIFICATIONS OF THE OVERCURRENT PROTECTIVE DEVICES SHALL BE MADE TO CONFIRM WITH THE STUDY, WITHOUT ADDITIONAL COST OR TIME TO THE OWNER.

W. LIGHTING LAYOUTS ARE BASED ON LIGHTING LEVELS RECOMMENDED BY THE IESNA (ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA). LIGHT LEVELS ARE AFFECTED BY ENVIRONMENTAL CONDITIONS SUCH AS THE COLOR OF FINISHES (CEILINGS, WALLS, FLOORS, ETC.), WINDOW TREATMENTS, FURNISHINGS, AND FINAL LUMINAIRE SELECTIONS. ALL ENVIRONMENTAL CONDITIONS MAY NOT BE ESTABLISHED DURING DESIGN, WHICH MAY IMPACT THE LIGHTING LEVELS UPON THE COMPLETION OF CONSTRUCTION. BASIS OF DESIGN LIGHTING CALCULATIONS FOR SPECIFIC AREAS ARE AVAILABLE UPON REQUEST.

X. ALL DEMOLITION WORK SHALL BE COORDINATED WITH THE OWNER PRIOR TO BEGINNING THE WORK.

Y. EXISTING ELECTRICAL WORK SHOWN TO REMAIN, BUT INTERFERES WITH THE NEW WORK, SHALL BE REWORKED AND RELOCATED TO AVOID ANY INTERFERENCE.

Z. ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY POWER TO MAINTAIN THE OWNER'S OPERATIONS, AT NO EXTRA COST OR TIME TO THE OWNER, IN ORDER TO KEEP THE BUILDING IN OPERATION DURING EACH PHASE OF THE PROJECT.

AA. REMOVE EXISTING ELECTRICAL GEAR AS SHOWN. DEMOLITION OF FEEDERS AND BRANCH CIRCUITS OR TRANSFERRING FEEDERS AND BRANCH CIRCUITS TO NEW PANELBOARDS, SHALL BE PERFORMED IN A MANNER AS TO KEEP DOWNTIME AND OUTAGES TO AN ABSOLUTE MINIMUM.

AB. ELECTRICAL CONTRACTOR SHALL PREPARE AN OUTAGE PLAN, INCLUDING PROVISIONS FOR TEMPORARY POWER, AND SUBMIT IT WITH THEIR BID. THE OUTAGE PLAN SHALL INCLUDE ALL OUTAGES REQUIRED TO PERFORM THE WORK SHOWN IN THE CONTRACT DOCUMENTS. NO EXTRA COST OR TIME TO THE OWNER SHALL BE CONSIDERED FOR NOT INCLUDING REQUIRED OUTAGES. ALL OUTAGES SHALL BE COORDINATED WITH, AND APPROVED BY, THE OWNER AT LEAST TWO (2) WEEKS IN ADVANCE. AT THE OWNER 'S DISCRETION, THIS TIME MAY BE LONGER OR SHORTER FOR SOME SHUTDOWNS.

AC. EXISTING ELECTRICAL CONDITIONS ARE BASED UPON SITE SURVEY INFORMATION AND EXISTING RECORD/AS-BUILT DRAWINGS MADE AVAILABLE FROM THE OWNER. ELECTRICAL WORK SHOWN CONVEYS THE GENERAL SCOPE OF THE DEMOLITION WORK TO BE PERFORMED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND OBSERVE THE EXISTING CONDITIONS PRIOR TO BIDDING. NO CHANGE ORDERS WILL BE CONSIDERED FOR CONDITIONS EASILY VISIBLE DURING A SITE VISIT.

DEDUCT ALTERNATES

A	**ALTERNATE A** - ELIMINATE SECONDARY ELECTRICAL FEED
B	**ALTERNATE B** - ELIMINATE LANDSCAPING
C	**ALTERNATE C** - ELIMINATE CLERESTORY AREAS
D	**ALTERNATE D** - ELIMINATE CLERESTORY AREAS

NOTE: SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

ELECTRICAL - DRAWING INDEX

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E001	ELECTRICAL - SYMBOLS, NOTES AND DRAWING INDEX
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E003	ELECTRICAL - DETAILS
E004	ELECTRICAL - DETAILS
E005	ELECTRICAL - DETAILS
E006	ELECTRICAL - DETAILS - LIGHTNING PROTECTION
E007	ELECTRICAL - POWER RISER DIAGRAM AND SCHEDULES
E008	ELECTRICAL - PANELBOARD SCHEDULES
E009	ELECTRICAL - PANELBOARD SCHEDULES
ED100	ELECTRICAL - SITE PLAN - DEMOLITION
EL100	ELECTRICAL - BASEMENT FLOOR - LIGHTING PLAN
EL110	ELECTRICAL - FIRST FLOOR - LIGHTING PLAN
EP100	ELECTRICAL - BASEMENT FLOOR - POWER PLAN
EP110	ELECTRICAL - FIRST FLOOR - POWER PLAN
EP111	ELECTRICAL - FIRST FLOOR - MECHANICAL EQUIPMENT CONNECTIONS
ES100	ELECTRICAL - SITE PLAN
ES120	ELECTRICAL - ROOF PLAN - LIGHTNING PROTECTION
ES120A	ELECTRICAL - ALTERNATE ROOF PLANS - LIGHTNING PROTECTION
ES121	ELECTRICAL - BUILDING ELEVATIONS - LIGHTNING PROTECTION
ES121A	ELECTRICAL - ALTERNATE BUILDING ELEVATIONS - LIGHTNING PROTECTION
EY100	ELECTRICAL - FIRST FLOOR - SPECIAL SYSTEMS PLAN
EY110	ELECTRICAL - FIRST FLOOR - SPECIAL SYSTEMS ROUTING PLAN

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - SYMBOLS, NOTES AND DRAWING INDEX

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: NGE | Drawn: NMG

Project Number: 508-349

Building Number:

Drawing Number: E001

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC\4792 - CE Central Model.rvt
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VA FORM 08 - 6231

TELECOMMUNICATION SYMBOLS

(NOTE: SYMBOLS WITHIN THIS SCHEDULE ARE REPRESENTATIVE OF THOSE TYPICALLY FOUND ON THE DRAWINGS. ALL SYMBOLS MAY NOT APPEAR ON THIS SET OF DRAWINGS.)

APPLICABLE TO ALL OUTLETS LISTED BELOW:

TERMINATIONS SHALL BE PERFORMED USING PIN/PAIR ASSIGNMENTS IN ACCORDANCE WITH THE T568A PIN-OUT SEQUENCE USING 8-PIN 8 CONDUCTOR (8P8C) RJ45 TYPE CONNECTORS RATED FOR THE CATEGORY OF THE INSTALLED CABLE; COLOR SHALL MATCH THE U/UTP OUTER JACKET.

TELECOMMUNICATIONS OUTLETS, 8P8C RJ45 TYPE CONNECTOR
· U/UTP CABLES FOR DATA SHALL HAVE A BLUE OUTER JACKET
· U/UTP CABLES FOR VOICE SHALL HAVE A WHITE OUTER JACKET

VOICE/DATA OUTLET, WALL MOUNTED 18" AFF TO CENTER OF DEVICE. PROVIDE 3/4"C. FROM OUTLET TO AN ACCESSIBLE SPACE ABOVE THE CORRIDOR LAY-IN CEILING.

VOICE/DATA OUTLET, WALL MOUNTED 42" AFF, 2" FROM BOTTOM OF OUTLET TO BACKSPLASH. PROVIDE 3/4"C. FROM OUTLET TO AN ACCESSIBLE SPACE ABOVE THE CORRIDOR LAY-IN CEILING.

TELEPHONE OUTLET WALL MOUNTED 42" AFF, 2" FROM BOTTOM OF OUTLET TO BACKSPLASH, OR 6" FROM BOTTOM OF OUTLET TO COUNTERTOP.

INTERCOM OUTLET WALL MOUNTED 42" AFF TO CENTER OF DEVICE, WITH DESK MOUNTED STATION UNLESS NOTED OTHERWISE.

MODIFIERS FOR INTERCOM:
M = MASTER STATION
S = SUB STATION
W = WALL MOUNTED STATION

PS — PUBLIC ADDRESS SYSTEM OR MUSIC SPEAKER, CEILING MOUNTED.

SECURITY SYSTEM CLOSED CIRCUIT T.V. CAMERA. SUBSCRIPT INDICATES COVERAGE AREA.

PB — SECURITY SYSTEM PUSHBUTTON STATION. SURFACE MOUNTED 42" AFF.

CONDUIT SLEEVES. SEE PLANS FOR SIZE AND QUANTITY.

KPCR — KEY PAD CARD READER

CABLE TV OUTLET, MOUNTED ADJACENT TO TV RECEPTACLE, UNLESS NOTED OTHERWISE.

PP — PUSHPAD. PROVIDE BOX AND CONDUIT AS REQUIRED. COORDINATE WITH HARDWARE VENDOR.

CR — CARD READER. PROVIDE BOX AND CONDUIT AS REQUIRED. COORDINATE WITH HARDWARE VENDOR.

HW — HAND WAVE WALL ACTUATOR DOOR RELEASE.

BA — BADGE ACCESS.

IA — INTRUSION DETECTION.

WAP — WIRELESS ACCESS POINT WITH ONE OUTLET CONNECTOR LABELED FOR DATA INSTALLED ABOVE CEILING

TGB — TELECOMMUNICATIONS GROUND BAR MOUNTED ON BACKBOARD. SEE DETAIL 10 IN SHEET E005.

NURSE CALL

NCL — NURSE CALL CORRIDOR DOME LIGHT, CEILING MOUNTED.

NCL — NURSE CALL CORRIDOR DOME LIGHT, WALL MOUNT ABOVE DOOR AT 4" FROM THE TOP OF THE DOOR FRAME TO THE BOTTOM OF THE DEVICE.

ND — NURSE CALL DUTY STATION, 42" AFF TO CENTER OF DEVICE.

NEC — NURSE CALL EMERGENCY STATION W/ PULL CORD, 42" AFF TO CENTER OF DEVICE, WITH CORD TO FALL 4"AFF.

NEC — WATER PROOF NURSE CALL EMERGENCY STATION W/ PULL CORD. MOUNT DEVICE AT 70" AFF. TO CENTER OF DEVICE,WITH CORD TO FALL TO 4" AFF.

NMS — NURSE CALL MASTER STATION, DESK MOUNTED.

NP1 — NURSE CALL SINGLE PATIENT STATION. COORDINATE MOUNTING HEIGHT WITH STAFF.

NZL — NURSE CALL CORRIDOR ZONE LIGHT, CEILING MOUNTED.

NZL — NURSE CALL CORRIDOR ZONE LIGHT, WALL MOUNT ABOVE DOOR AT 4" FROM THE TOP OF THE DOOR FRAME TO THE BOTTOM OF THE DEVICE.

TELECOMMUNICATIONS STANDARDS

TELECOMMUNICATIONS INSTALLATION SHALL COMPLY WITH THE MOST CURRENT VERSION OF THE FOLLOWING STANDARDS:

I3A - TECHNICAL CRITERIA FOR THE INSTALLATION INFORMATION INFRASTRUCTURE ARCHITECTURE

BICSI: BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL REQUIREMENTS

ANSI/TIA-568-D.0, 2015 : GENERIC TELECOMMUNICATIONS CABLING FOR CUSTOMER PREMISES

ANSI/TIA-568-D.1, 2015: COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD

ANSI/TIA-568-C.2, 2009 : BALANCED TWISTED PAIR TELECOMMUNICATIONS CABLING AND COMPONENT STANDARD

ANSI/TIA-568-C.3, 2008 : OPTICAL FIBER CABLING COMPONENTS STANDARD

ANSI/TIA-568-C.4, 2011 - BROADBAND COAXIAL CABLING AND COMPONENTS STANDARD

ANSI/TIA-569-D, 2015 : TELECOMMUNICATIONS PATHWAYS AND SPACES

ANSI/TIA-606-B, 2012 : ADMINISTRATION STANDARD FOR COMMERCIAL TELECOMMUNICATIONS INFRASTRUCTURE

TIA-526-7 (OFSTP-7)-2002+A1:2008 : MEASUREMENT OF OPTICAL POWER LOSS OF INSTALLED SINGLE-MODE FIBER CABLE PLANT

ANSI/TIA-607-B, 2011 : COMMERCIAL BUILDING GROUNDING (EARTHING) AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

ANSI/TIA-1152, 2009: REQUIREMENTS FOR FIELD TEST INSTRUMENTS AND MEASUREMENTS FOR BALANCED TWISTED-PAIR CABLING

TIA TSB-162-A, 2013 : TELECOMMUNICATIONS CABLING GUIDELINES FOR WIRELESS ACCESS POINTS

ANSI/NECA/BICSI 568 : STANDARD FOR INSTALLING COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING

NFPA 70 : NATIONAL ELECTRICAL CODE (NEC)

NFPA 75 : STANDARD FOR THE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT

NFPA 76 : STANDARD FOR THE FIRE PROTECTION OF TELECOMMUNICATIONS FACILITIES

MIL-HDBK-232A : RED/BLACK ENGINEERING-INSTALLATION GUIDELINES

MIL-HDBK-1012/3 : TELECOMMUNICATIONS PREMISES DISTRIBUTION PLANNING, DESIGN AND ESTIMATING

USASOC INFORMATION TECHNOLOGY (IT) TECHNICAL DESIGN GUIDE

TM 5-853-4 CORPS OF ENGINEERS ELECTRONIC SECURITY SYSTEMS TECHNICAL MANUAL

IC-TECH SPEC ICD/ICS 705, ICS-705-1, ICS-705-2

CoSC ISP INSTALLATION STANDARDS VERSION 1.0, 16 MAY 2011

UFC 4-020-04A : ELECTRONIC SECURITY SYSTEMS : SECURITY ENGINEERING

AR 380-5 - DEPARTMENT OF THE ARMY INFORMATION SECURITY PROGRAM

AR 380-27 - (FOUO) CONTROL OF COMPROMISING EMANATIONS

AR 380-40 - SAFEGUARDING AND CONTROLLING COMMUNICATIONS SECURITY MATERIAL

VA PHYSICAL SECURITY DESIGN MANUAL - LIFE SAFETY PROTECTED FACILITIES
MIL-HDBK-419A : GROUNDING, BONDING AND SHIELDING FOR ELECTRONIC EQUIPMENT AND FACILITIES

MIL-STD-188-124B – (U) GROUNDING, BONDING, AND SHIELDING FOR COMMON LONG-HAUL/TACTICAL COMMUNICATIONS SYSTEMS, INCLUDING GROUND BASED COMMUNICATION ELECTRONICS FACILITIES FOR EQUIPMENT

VA INFRASTRUCTURE STANDARD FOR TELECOMMUNICATIONS SPACES VERSION 3.1, DATED 7/1/2021

TELECOMMUNICATIONS GENERAL NOTES

1. THIS IS A STANDARD LEGEND SHEET. NOT ALL SYMBOLS OR ABBREVIATIONS MAY APPEAR ON DRAWINGS.
2. REFER TO DIVISIONS 26, 27 AND 28 SPECIFICATIONS FOR TELECOMMUNICATION SYSTEM ITEMS.
3. MOUNTING DEVICES AND EQUIPMENT PER SPECIFICATIONS UNLESS OTHERWISE NOTED.
4. MOUNTING HEIGHTS, UNLESS OTHERWISE NOTED, ARE TO CENTER LINE OF DEVICE.
5. THE CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF RACEWAYS.
6. THE CONTRACTOR SHALL COORDINATE ALL RACEWAY PENETRATIONS AND PROVIDE FIREPROOFING AS APPLICABLE.
7. THE MAXIMUM PERMANENT HORIZONTAL LINK DISTANCE SHALL BE 295' AND THE MAXIMUM HORIZONTAL CHANNEL (LINK PLUS WORKSTATION CABLES AND PATCH CORDS) SHALL BE 328'.
8. ALL HORIZONTAL VOICE AND DATA CABLING SHALL BE CAT 6A INSTALLED IN A MINIMUM 1" CONDUIT UNLESS NOTED OTHERWISE FROM TELECOMM OUTLET LOCATIONS TO THE CABLE TRAY
9. CAT 6A CABLING SHALL BE TERMINATED ON 8-PIN, 8-CONDUCTOR (RJ-45) CONNECTORS USING PIN/PAIR ASSIGNMENTS IN ACCORDANCE WITH T568B PIN-OUT SEQUENCE.
10. CAT 6A JACKS SHALL BE THE SAME COLOR AS CORRESPONDING HORIZONTAL VOICE AND DATA CABLING. CAT 6A JACKS SHALL BE THE SAME MANUFACTURER AS THE PATCH PANELS.
11. PROVIDE CAT 6A, 8-PIN, 8-CONDUCTOR MODULAR TO 8-PIN, 8-CONDUCTOR MODULAR, PATCH CABLES IN QUANTITIES AND LENGTHS SUCH THAT ALL WORKSTATION CABLES ARE CONNECTED.
12. PROVIDE CAT 6A, 8-PIN, 8-CONDUCTOR MODULAR TO 1-PAIR 110 CLIP, PATCH CABLES IN QUANTITIES AND LENGTHS FOR CONNECTION FROM VOICE PATCH PANELS TO RACK MOUNTED 110 BLOCKS.
13. OPTICAL FIBER CABLES SHALL BE TERMINATED WITH DUPLEX SC-TYPE CONNECTORS.
14. THE USE OF J-HOOKS SHALL BE LIMITED. WHEN USED, J-HOOKS SHALL BE CAT 6A RATED AND SPACES AT INTERVALS NOT TO EXCEED 5'. J-HOOKS SHALL NOT EXCEED 24 CABLES OR 50% FILL, WHICHEVER IS LESS. WHEN J-HOOKS ARE USED TO SPAN FROM CONDUIT STUB UPS TO CABLE TRAY A BONDING BUSHING SHALL BE INSTALLED ON THE CONDUIT STUB UPS AND A MINIMUM # 6 AWG. GROUND CONDUCTOR SHALL BE INSTALLED FROM THE BONDING BUSHING TO THE CABLE TRAY, EFFECTIVELY BONDING THE METALLIC RACEWAYS TOGETHER.
15. ALL TELECOMMUNICATIONS RACKS AND SUPPORTING STRUCTURES (CABLE TRAYS, LADDER RACKS, CONDUITS, AND BASKETS) WITHIN A TR MUST BE BONDED TO THE TR SIGNAL GROUND RING OR BUS BAR (TGB OR TMGB) AS DEFINED IN ANSI/TIA-569-C AND IN ANSI/TIA-607-B.
16. CABLE TRAY SHALL BE TRAPEZE MOUNTED (PREFERABLE) OR WALL MOUNTED. CENTER HUNG CABLE TRAY IS NOT ALLOWED. CABLE TRAY SHALL NOT BE USED TO SUPPORT OTHER ITEMS, CONDUIT, CABLE TRAY, PIPING OF UTILITIES. CABLE TRAY SUPPORTS SHALL BE PER NEMA STANDARDS PUBLICATION VE 2 - METAL CABLE TRAY INSTALLATION GUIDELINES.
17. PROVIDE ACCESS PANELS IN NON LAY-IN CEILINGS SUCH THAT NO POINT IN THE CABLE TRAY SYSTEM IS MORE THAN 20' FROM AN ACCESS POINT.
18. PROVIDE A MINIMUM OF 12" OF CLEARANCE ABOVE THE TOP OF CABLE TRAYS AND A MINIMUM OF 3" CLEARANCE BELOW CABLE TRAYS.
19. PROVIDE RECTANGULAR, MODULAR, FIRE RATED WALL PENETRATION ASSEMBLIES USING EITHER INTEGRAL, SLIDING COVERS OR REMOVABLE PLUGS.
20. COMPLY WITH ANSI/TIA-569-C TELECOMMUNICATION PATHWAYS AND SPACES.
21. USE ONLY COPPER CONDUCTORS FOR GROUND CONNECTIONS. THE USE OF ALUMINUM CONDUCTORS IS NOT ALLOWED.
22. PROVIDE OSP CABLES RATED FOR OUTDOOR USE, FILLED WITH A WATER BLOCKING COMPOUND.
23. LABEL ALL CABLE TERMINATIONS AND BOTH ENDS OF ALL CABLES IN ACCORDANCE WITH UFC 3-580-01 AND ANSI/TIA-606-B.
24. PROVIDE AS-BUILT DOCUMENTATION INCLUDING COMPLETE TEST RESULT REPORTS, FLOOR PLANS SHOWING USER WORKSTATIONS WITH CABLING LABELING, AND BACKBONE CABLE SCHEMATIC AND LABELING IN AN ELECTRONIC FORMAT (PDF) OR OTHER APPROVED FORMAT AND A PRINTED HARDCOPY. TEST RESULTS SHALL BE SUPPLIED ELECTRONICALLY TO THE PROJECT RCDD AND CORPS PROJECT ENGINEER/ARCHITECT IN THE TEST PROGRAM NATIVE FORMAT.
25. ANY MOTOR, TRANSFORMER, OR OTHER ELECTRICAL DEVICE GREATER THAN 5 KVA SHALL HAVE A MINIMUM OF A 4' BUFFER FROM ANY WALL OF THE EF, TER, OR TR(S).
26. THE CONTRACTOR SHALL INITIATE THE APPLICATION FOR TELEPHONE SERVICE AND ASSIST THE GOVERNMENT IN COMPLETING THE APPLICATION FOR SERVICE; ACCEPTING INSTALLATION OF SERVICE; START-UP OF SERVICE; AND ACTIVATION OF SPECIFIC TELEPHONE NUMBERS AND DEDICATED (POTS) LINES FOR FIRE ALARM, ENTRY CONTROL AND ELEVATOR PANELS.

TELECOMMUNICATIONS ABBREVIATIONS

110	110 PUNCHDOWN BLOCKS, RACK OR WALL MOUNTED AS INDICATED
8P8C	8-PIN, 8-CONDUCTOR
ACS	ACCESS CONTROL SYSTEM
AFF	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
BCT	BONDING CONDUCTOR FOR TELECOMMUNICATIONS
C	CONDUIT(S)
CAA	CONTROLLED ACCESS AREA
CAT 6	CABLING ETL VERIFIED TO ANSI/TIA-568-C.2 CATEGORY 6
CATV	CABLE TELEVISION
CCTV	CLOSED-CIRCUIT TELEVISION
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CP	CONSOLIDATION POINT
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
DB	DIRECT BURIED
DIA	DIAMETER
DWG	DRAWING
ER	EXISTING RELOCATED
ETR	EXISTING TO REMAIN
EXIST	EXISTING
FACP	FIRE ALARM CONTROL PANEL
FB	FLOOR BOX
FT	FEET
GFGI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED
GND	GROUND
GRS	GALVANIZED RIGID STEEL
IAW	IN ACCORDANCE WITH
IDS	INTRUSION DETECTION SYSTEM
IN	INCHES
LCA	LIMITED CONTROL ACCESS
MC	MECHANICAL CONTRACTOR
MIN	MINIMUM
MTD	MOUNTED
NEC	NETWORK ENTERPRISE CENTER
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NESC	NATIONAL ELECTRICAL SAFETY CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OEM	ORIGINAL EQUIPMENT MANUFACTURER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PA	PUBLIC ADDRESS
PE	POLYETHYLENE
PET	PROTECTED ENTRANCE TERMINALS
POTS	PLAIN OLD TELEPHONE SERVICE
(SWITCHED TELEPHONE LINE)	
PSI	POUNDS PER SQUARE INCH
PTZ	PAN / TILT / ZOOM
QTY	QUANTITY
RR	REMOVE AND RELOCATE
RS	RIGID STEEL
SCH	SCHEDULE
STP	SHIELDED TWISTED PAIR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TE	TELECOMMUNICATIONS ENCLOSURE
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR	TELECOMMUNICATIONS ROOM
TYP	TYPICAL
U/G	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
U/UTP	UNSCREENED/UNSHIELDED TWISTED PAIR CABLE
VoIP	VOICE OVER INTERNET PROTOCOL
WP	WEATHERPROOF
XP	EXPLOSION PROOF

TELECOMMUNICATIONS CABLING NOTES

TELECOMMUNICATIONS BACKBONE CABLING

SYSTEM DESIGNATION	CABLE TYPE	CABLE COLOR
VOICE DATA SURVEILLANCE	OPTICAL FIBER SINGLE-MODE	YELLOW/BLACK WHITE

TELECOMMUNICATIONS HORIZONTAL CABLING

SYSTEM DESIGNATION	CABLE TYPE	CABLE COLOR
VOICE DATA SURVEILLANCE	CAT 6A	WHITE BLUE WHITE

COORDINATE ALL CABLE COLORS WITH COR BEFORE PURCHASE.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Nicholas Esposito

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL - SPECIAL SYSTEMS SYMBOLS AND NOTES

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT TDVV CLC 12 BEDS

Location
180 MARTIN DR, CARROLLTON, GA 30117

Issue Date 12/16/2024 | **Checked** NGE | **Drawn** NMG

Project Number 508-349

Building Number

Drawing Number E002

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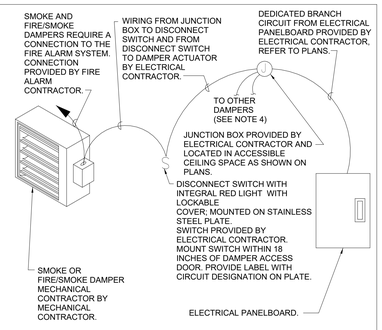
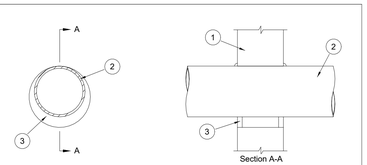


NOTES:

1. SMOKE ANDFIRE/SMOKE DAMPERS SHALL BE U.L. LABELED AND INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. MECHANICAL CONTRACTOR TO PROVIDE ACCESS DOOR IN DUCTWORK FOR ACCESS TO THE DAMPER. MINIMUM SIZE SHALL BE 12"x12".
3. ALL WIRING SHALL BE INSTALLED IN RACEWAY.
4. MULTIPLE DAMPERS CAN BE SERVED FROM A SINGLE JUNCTION BOX, UP TO A MAXIMUM OF SIXTEEN (16) ACTUATORS.

SMOKE, & FIRE/SMOKE DAMPER WIRING DETAIL — NOT TO SCALE — 14



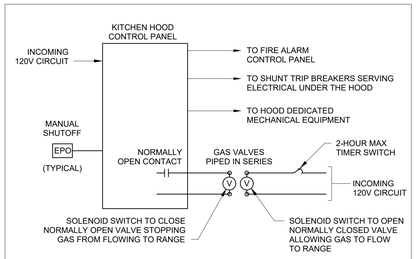
1. RATED WALL OR FLOOR ASSEMBLY - PROVIDE FIRE STOPPING ASSEMBLY FOR PARTITION TYPE & RATING ENCOUNTERED.
2. THROUGH PENETRATION - PROVIDE FIRE STOPPING ASSEMBLY FOR SIZE & MATERIAL OF THROUGH-PENETRATION UTILIZED.
3. FIRE STOPPING MATERIAL - PROVIDE FIRE STOPPING MATERIAL FOR WALL ASSEMBLY & THROUGH PENETRATION MATERIAL ENCOUNTERED. FILL VOIDS OR CAVITY ACCORDING TO THE REQUIREMENTS OF THE FIRE STOPPING SYSTEM UTILIZED.

ALL RATED WALLS, PARTITIONS OR FLOORS SHALL BE PROVIDED WITH A UL LISTED FIRE STOP SYSTEM. THE SYSTEM UTILIZED SHALL MATCH THE SEPARATION PENETRATED AND THE THROUGH PENETRATION MATERIAL.

DETAILS FOR THE INSTALLATION OF SYSTEM TYPE UTILIZED SHALL BE AVAILABLE AT THE PROJECT SITE FOR THE DURATION OF CONSTRUCTION AND SHALL BE PROVIDED TO THE AUTHORITY HAVING JURISDICTION AND TO THE BUILDING OWNER AT THE PROJECT COMPLETION.

PROVIDE WALL OR FLOOR LABELS INDICATING THE SYSTEM MANUFACTURER AND UL LISTED ASSEMBLY NUMBER AT EACH LOCATION WHERE THE FIRE STOPPING SYSTEM IS INSTALLED.

THROUGH PENETRATION FIRESTOP SYS. (PROVIDE UL LISTED SYSTEM) — NOT TO SCALE — 13



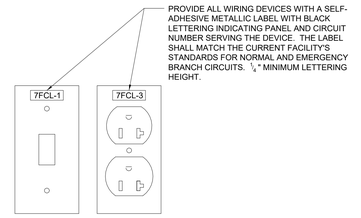
A. PROVIDE ALL RELAYS, PUSHBUTTONS, TRANSFORMERS, CONTACTORS, SHUNT TRIP CIRCUIT BREAKERS, WIRING AND CONDUIT FOR A COMPLETE POWER OFF SYSTEM AND ALARM NOTIFICATION DESCRIBED IN PARAGRAPH 'C'.

B. COORDINATE WITH INSTALLERS OF FIRE SUPPRESSION SYSTEM, MECHANICAL SYSTEM KITCHEN EQUIPMENT, KITCHEN HOOD VENDOR AND GAS INSTALLER.

C. THE ACT OF PUSHING ANY EMERGENCY POWER OFF PUSHBUTTON, OR THE ACTIVATION OF A HOOD FIRE SUPPRESSION SYSTEM, SHALL CAUSE THE FOLLOWING TO OCCUR:

1. TURN OFF POWER TO THE KITCHEN HOOD EXHAUST FAN(S) AND SUPPLY FAN(S).
2. TURN OFF POWER TO ALL ITEMS UNDER KITCHEN HOOD REQUIRING ELECTRICAL CONNECTION OR CONTROL.
3. SHUT OFF GAS FLOW TO ALL ITEMS REQUIRING ELECTRICAL CONNECTION OR CONTROL.
4. SEND A SIGNAL TO THE FIRE ALARM CONTROL PANEL, REFER TO FIRE ALARM MATRIX.

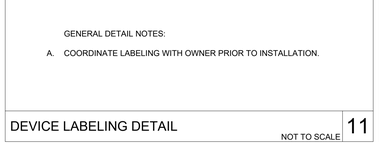
TYPICAL KITCHEN HOOD WIRING DIAGRAM — NOT TO SCALE — 12



GENERAL DETAIL NOTES:

A. COORDINATE LABELING WITH OWNER PRIOR TO INSTALLATION.

DEVICE LABELING DETAIL — NOT TO SCALE — 11



GENERAL NOTE:

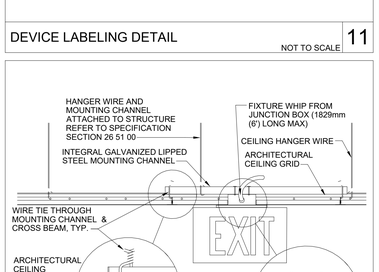
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

EXIT SIGN MOUNTING - LAY-IN CEILING — NOT TO SCALE — 10

GENERAL NOTE:

1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING RECOMMENDED MOUNTING HARDWARE

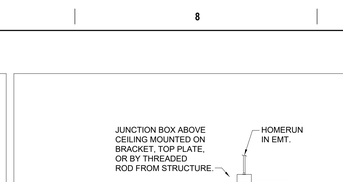
DOWNLIGHT MOUNTING - LAY-IN CEILING — NOT TO SCALE — 9



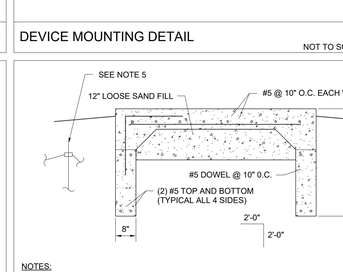
GENERAL NOTE:

1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

LUMINAIRE MOUNTING - LAY-IN CEILING — NOT TO SCALE — 8

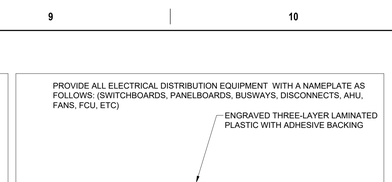


WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIMMER SWITCH — NOT TO SCALE — 5



DTC - DIGITAL TIME CLOCK, PROGRAM SCHEDULE PER OWNER'S DIRECTION.
PC - PHOTOELECTRIC CELL, MOUNT ON ROOF FACING NORTH
SD - REMOTE MOUNTED OVERRIDE DIMMING SWITCH(ES).
PROVIDE QUANTITY AND LOCATION AS DIRECTED BY OWNER.

LIGHTING RELAY DIAGRAM — NOT TO SCALE — 4



GENERAL DETAIL NOTES:

A. PARTICULAR ATTENTION SHALL BE GIVEN TO THE ALIGNMENT OF DEVICES. WHEREVER DEVICES, ON THIS SHEET OR OTHER SHEETS, ARE SHOWN AT GIVEN LOCATION WITH DIFFERENT MOUNTING HEIGHTS THEY SHALL BE ALIGNED VERTICALLY. IF THEY ARE SHOWN AT THE SAME MOUNTING HEIGHT THEY SHALL BE ALIGNED HORIZONTALLY. REFER TO THE ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS. COORDINATE WITH ARCHITECT PRIOR TO ROUGH-IN.

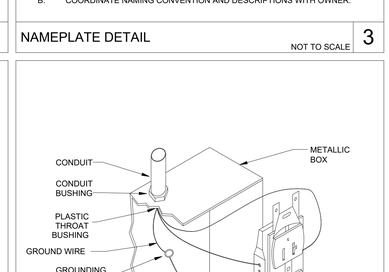
B. ALL DIMENSIONS ARE TO THE CENTER LINE OF DEVICE UNLESS INDICATED OTHERWISE.

C. MOUNTING HEIGHTS SHOWN HERE ARE TYPICAL. PRIOR TO ROUGH-IN, COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS. IF A CONFLICT OCCURS, REQUEST CLARIFICATION FROM ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.

DEVICE LEGEND:

- LS — LIGHT SWITCH
- T — THERMOSTAT
- RECEPTACLE
- VOICE/DATA OUTLET
- N — NURSE CALL DEVICES

MOUNTING HEIGHTS OF DEVICES — NOT TO SCALE — 1



NORMAL: WHITE LETTERS ON BLACK BACKGROUND
LIFE SAFETY: WHITE LETTERS ON RED BACKGROUND
CRITICAL: WHITE LETTERS ON RED BACKGROUND
EQUIPMENT: WHITE LETTERS ON RED BACKGROUND

GENERAL DETAIL NOTES:

A. PROVIDE SAMPLE FOR APPROVAL BY ENGINEERS/OWNER.
B. COORDINATE NAMING CONVENTION AND DESCRIPTIONS WITH OWNER.

NAMEPLATE DETAIL — NOT TO SCALE — 3

NOTES:

1. THE DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2500 PSF. IF SUITABLE SOILS ARE NOT FOUND AT THE ELEVATIONS SHOWN, EXCAVATE AND REPLACE WITH ENGINEERED FILL AS DIRECTED BY THE ENGINEER.
2. ALL CONCRETE SHALL ACHIEVE 4000 PSI AT 28 DAYS AND SHALL BE AIR ENTRAINED. CHAMFER EXPOSED EDGES 3/4".
3. PROVIDE EXTENDED REBAR CONNECTS INTO EXISTING PAD ADJACENT TO PAD EXTENSIONS. DOWEL INTO EXISTING PAD AT MINIMUM 2' INTERVALS.
4. ADJUST PAD DIMENSIONS FOR EQUIPMENT SUPPLIED. PAD SHALL BE 12 INCHES LONGER AND WIDER THAN EQUIPMENT SUPPLIED.
5. FURNISH AND INSTALL (4) 3/4" x 10' GROUND RODS IN UNDISTRIBUTED SOIL NEAR PAD CORNERS. INTERCONNECT WITH #3/0 BARE COPPER GROUND CABLE. CONNECT TO MAIN SWITCHBOARD GROUND BUS WITH #3/0 CABLE.

GENERATOR PAD DETAIL — NOT TO SCALE — 6

RECEPTACLE GROUNDING BOX DETAIL — NOT TO SCALE — 2

Revisions:	Date:

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GEORGIA REGISTERED No. PE052010 PROFESSIONAL ENGINEER — Nicholas Espositio

Nicholas Espositio

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - DETAILS

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: NGE | Drawn: NMG

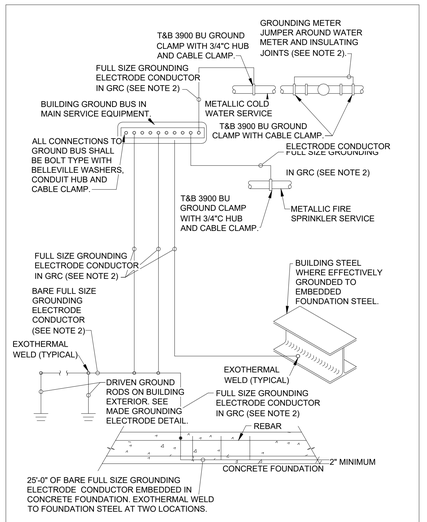
Project Number: 508-349

Building Number:

Drawing Number: E003

VA FORM 08 - 6231

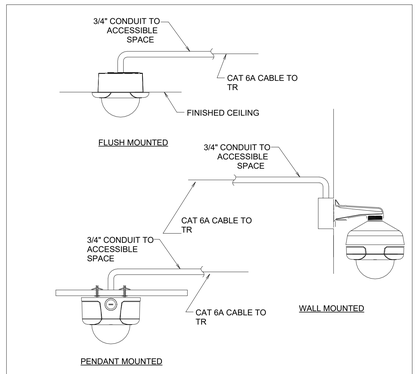
Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC47I92 - CE Central Model.rvt 12/16/2024 9:45:59 AM



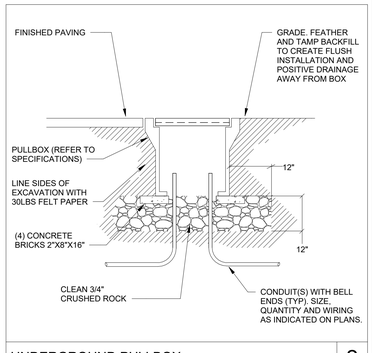
NOTES:

1. PROVIDE AND INSTALL ALL GROUNDING MEANS INDICATED. ELECTRICAL CONTRACTOR SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE AND PROVIDE AND INSTALL ALL GROUNDING METHODS THAT ARE AVAILABLE FOR THIS PROJECT.
2. ELECTRICAL CONTRACTOR SHALL REFER TO ELECTRICAL RISER DIAGRAM FOR GROUNDING ELECTRODE CONDUCTOR SIZE. GROUNDING CONDUCTOR SIZE SHOWN ON THE RISER DIAGRAM SHALL BE THE SAME FOR ALL METHODS OF GROUNDING SHOWN IN THIS DETAIL. ELECTRICAL CONTRACTOR SHALL REFER TO ELECTRICAL SPECIFICATIONS FOR SPECIFICS OF GROUND SYSTEM INSTALLATION AND MATERIALS.

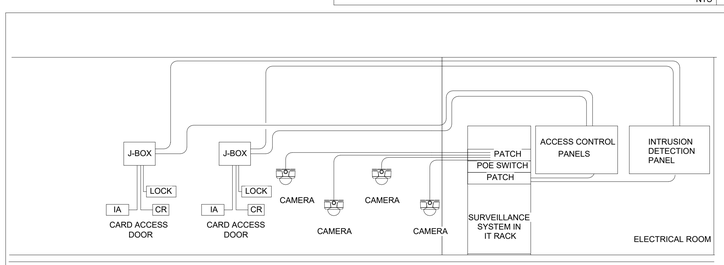
SERVICE GROUNDING DETAIL — NTS — 8



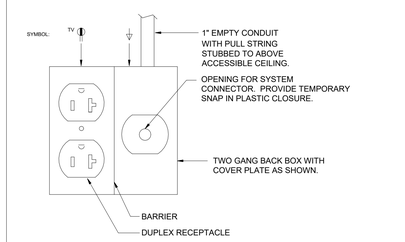
TYPICAL MOUNTED DOME CAMERA — NTS — 5



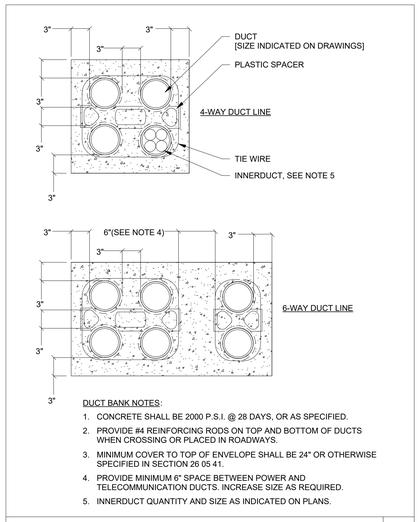
UNDERGROUND PULLBOX — NTS — 2



SECURITY SYSTEM RISER DIAGRAM — NTS — 7



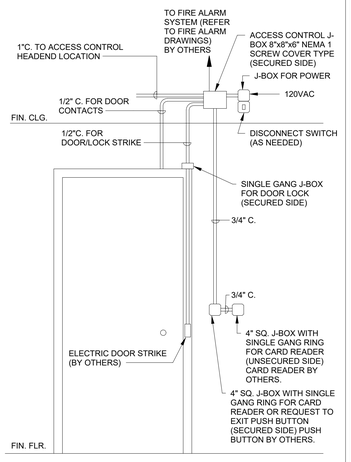
COMBINATION TV RECEPTACLE OUTLET — NTS — 4



DUCT BANK NOTES:

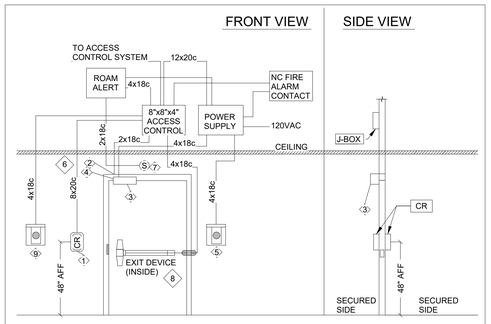
1. CONCRETE SHALL BE 2000 P.S.I. @ 28 DAYS, OR AS SPECIFIED.
2. PROVIDE #4 REINFORCING RODS ON TOP AND BOTTOM OF DUCTS WHEN CROSSING OR PLACED IN ROADWAYS.
3. MINIMUM COVER TO TOP OF ENVELOPE SHALL BE 24" OR OTHERWISE SPECIFIED IN SECTION 26 05 41.
4. PROVIDE MINIMUM 6" SPACE BETWEEN POWER AND TELECOMMUNICATION DUCTS. INCREASE SIZE AS REQUIRED.
5. INNERDUCT QUANTITY AND SIZE AS INDICATED ON PLANS.

TYPICAL DUCTBANK CROSS SECTION — NTS — 3



NOTE: ALL EQUIPMENT SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. COORDINATE WITH FIRE ALARM CONTRACTOR AND DOOR/SECURITY VENDOR.

ACCESS CONTROL CONDUIT DETAIL FOR CARD READER SYSTEM — NTS — 1



OPERATION:

OPERATION: DOOR IS LOCKED BY THE MAGNETIC LOCK WHEN THE ROAM ALERT SYSTEM IS ACTIVATED. CARD READER FROM EITHER SIDE OF OPENING RELEASES MAGNETIC LOCK AND OUTSIDE LEVERALLOWING INGRESS AND EGRESS. MAGNETIC LOCK AND ELECTRIFIED EXIT DEVICE TO BE TIED INTO FIRE ALARM SYSTEM.

IN THE EVENT OF A FIRE ALARM OR POWER FAILURE THE DOORS WILL REMAIN UNLOCKED IN THE DIRECTION OF EGRESS.

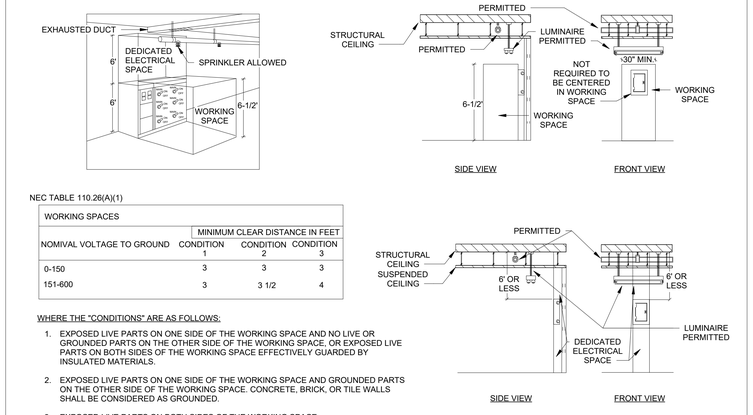
INSTALLATION:

1. PROVIDE SINGLE GANG JUNCTION BOX FLUSHED MOUNTED 48" A.F.F. FOR CARD READER.
2. DRILL HOLE IN HEAD OF FRAME 6" FROM STRIKE SIDE OF FRAME FOR DOOR CONTACT.
3. ATTACH MAGNETIC PLATE TO DOOR. INSTALL MAGNETIC LOCK ON SECURE SIDE.
4. STUB FLEX CONDUIT FROM JUNCTION BOX INTO MAGNETIC LOCK.
5. SINGLE GANG BOX FOR EMERGENCY RELEASE BUTTON WITH SQUEALER SOUNDER COVER.
6. STUB 1/2" OR 3/8" FLEX CONDUIT DOWN DOOR FRAME ON THE LOCK SIDE OF THE DOOR TO JUNCTION BOX LOCATED ABOVE ACCESSIBLE CEILING.
7. INSTALL ROAM ALERT SENSOR AND TIE ROAM ALERT SYSTEM INTO MAGNETIC LOCK AND THE ACCESS CONTROL SYSTEM.
8. WIRING HARNESS PROVIDED BY HARDWARE VENDOR.
9. SINGLE GANG BOX FOR EMERGENCY RELEASE BUTTON WITH SQUEALER SOUNDER COVER AT WORK STATION. BUTTON IS WIRED TO BREAK POSITIVE LEAD OF LOW VOLTAGE POWER SUPPLY OUTPUT.

NOTES:

ELECTRIFIED MAGLOCK WITH IN/OUT READERS AND ROAM ALERT.

ELECTRIFIED MAGLOCK WITH ROAM ALERT & ACCESS READERS — NTS — 9



NEC TABLE 110.26(A)(1)

WORKING SPACES			
	MINIMUM CLEAR DISTANCE IN FEET		
NOMINAL VOLTAGE TO GROUND	CONDITION 1	CONDITION 2	CONDITION 3
0-150	3	3	3
151-600	3	3 1/2	4

WHERE THE "CONDITIONS" ARE AS FOLLOWS:

1. EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE EFFECTIVELY GUARDED BY INSULATED MATERIALS.
2. EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. CONCRETE, BRICK, OR TILE WALLS SHALL BE CONSIDERED AS GROUNDED.
3. EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE.

ELECTRICAL WORKING AND DEDICATED EQUIPMENT SPACE — NTS — 6

Revisions:	Date:

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GEORGIA REGISTERED No. PE052010 PROFESSIONAL ENGINEER NICHOLAS G. ESPOSITO
Nicholas Esposito
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL - DETAILS

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT TDVV CLC 12 BEDS

Location
180 MARTIN DR, CARROLLTON, GA 30117

Project Number
508-349

Building Number

Drawing Number
E004

Issue Date 12/16/2024 | **Checked** NGE | **Drawn** NMG

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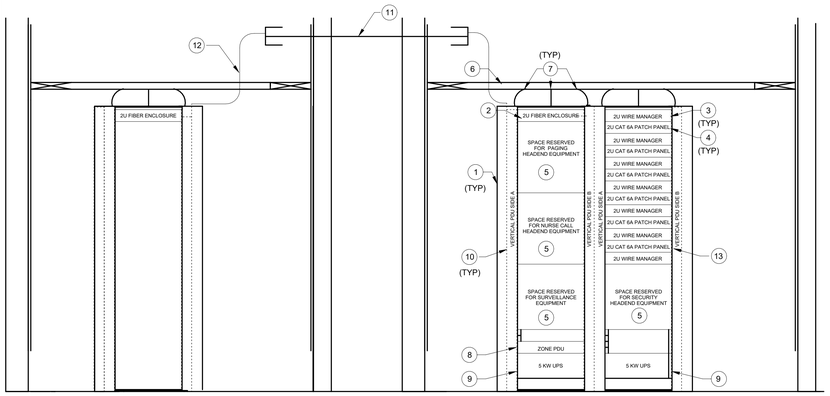
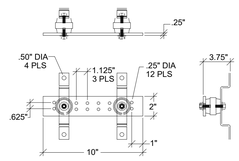
KEYED NOTES

1. TELECOMMUNICATIONS 45RU CHANNEL RACK. 7'H, 30"D CHANNEL MINIMUM, 19" RAILS, #12-24 TAPPED EIA HOLE PATTERN. PROVIDED WITH 6"W VERTICAL WIRE MANAGERS.
2. 2RU FIBER ENCLOSURE. USE 12 STRAND FIBER ADAPTER PANELS FOR FIBER FROM MCR. PROVIDE WITH RACK-MOUNTED, 2RU CLOSET CONNECTOR HOUSING (CCH) FOR DUPLEX SC ADAPTERS.
3. 2RU HORIZONTAL WIRE MANAGER.
4. OIT CAT6A PATCH PANEL FOR HORIZONTAL DATA CABLING WITH T568B WIRING FOR 110 STYLE IDC TERMINATIONS.
5. SPECIAL SYSTEMS TO RECEIVE SEPARATE PATCH PANELS FOR INDIVIDUAL SYSTEMS. COORDINATE LOCATION OF SEPARATE PATCH PANELS FOR SURVEILLANCE, SECURITY, NURSE CALL, AND OTHER SYSTEMS WITH OWNER OIT.
6. CABLE TRAY MOUNTED AS SHOWN IN PLANS AND DETAILS.
7. CABLE TRAY ELEVATION BRACKETS WITH A 6" STAND-OFF FROM THE TOP OF THE EQUIPMENT RACK
8. ZONE POWER DISTRIBUTION UNIT, ZPDU. 30 AMP 3-PHASE – REAR CIRCUITS WITH FOUR L21-20R AND SIX NEMA 5-20 OUTLETS AND TWO 10' POWER CORDS TERMINATING IN L21-30P
9. RACK MOUNTED 5KW, 208V UNINTERRUPTIBLE POWER SUPPLY (UPS) WITH NEMA 20A L21-20P INPUT AND L21-20R OUTPUT.
10. RACK POWER DISTRIBUTION UNIT (RPDU), VERTICAL; MONITORED; L21-20 PLUG; THREE PHASE; 120/208V INPUT; 20A; (30) C13 (6) C19 OUTLETS; 208V OUTPUT; 3 X 2P 20A HYDRAULIC MAGNETIC BREAKERS; LCD; ETHERNET, USB, AND ENVIRONMENTAL SENSOR PORTS; IP AND SERIAL MONITORING; IP CONSOLIDATION (PDU LINKING); TOOL-LESS MOUNTING.
11. PROVIDE 4" CONDUIT WITH FOUR (4) - 1" INNER CONDUIT.
12. PROVIDE 24 STRANDED OS2 SINGLE MODE FIBER.
13. 2U CAT6A PATCH PANEL RESERVE FOR GETWELL SYSTEM, PROVIDE OM3 MM LC FIBER TO THE NEAREST DATA CLOSET IN ROOM C016E.



MAIN IT ROOM E048 CORRIDOR OIT ROOM 108

TELECOMMUNICATIONS RACK ELEVATION NTS 10



TGB

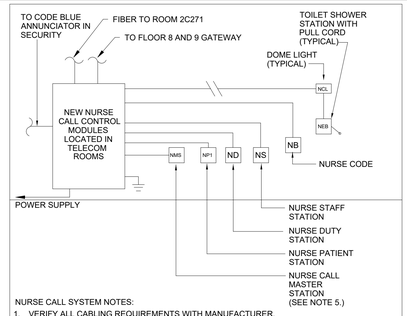
TELECOMMUNICATIONS GROUNDING LEGEND
ALL CONDUCTORS SHALL BE GREEN INSULATED SOLID COPPER CONDUCTORS.

TGB TELECOMMUNICATIONS GROUND BAR MOUNTED ON BACKBOARD. SEE DETAIL.

NOTES:

1. TYPICAL BUSBARS, INSULATIONS AND BACKBOARD MOUNT BRACKETS SHOWN HERE REFLECT TIA STANDARDS-COMPLIANT DIMENSIONS.
2. MOUNT BACKBOARD-MOUNTED BUSBARS AT 6'-6" AFF UNLESS DIRECTED OTHERWISE BY OWNER.
3. ALL GROUNDING BARS SHALL BE COPPER.

TYPICAL TELECOMMUNICATIONS GROUNDING BAR DETAILS NTS 9



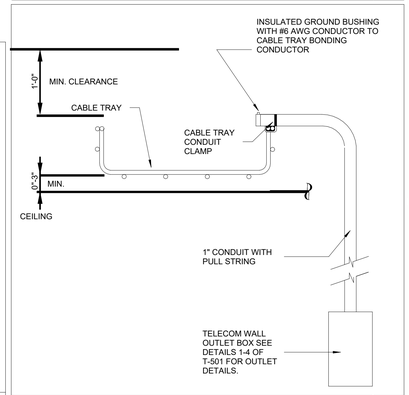
NURSE CALL SYSTEM NOTES:

1. VERIFY ALL CABLING REQUIREMENTS WITH MANUFACTURER.
2. ALL WIRING SHALL BE INSTALLED IN 3/4" CONDUIT.
3. PROVIDE ADEQUATE NUMBER OF CENTRAL LOGIC ADDRESSABLE MODULES AS REQUIRED BY MANUFACTURER INORDER TO PROVIDE A COMPLETE SYSTEM.
4. SEE PLAN FOR EXACT QUANTITIES OF DEVICES. RISER DIAGRAMORDER TO PROVIDE A COMPLETE SYSTEM. INDICATES CONNECTION INTENT ONLY.
5. WIRE AND PROGRAM NURSE CALL SO THAT EITHER MASTER STATION IS CAPABLE OF RECEIVING CALLS FROM ANY OF THE NURSE STATIONS.
6. NURSE PATIENT STATION SHALL BE INCORPORATED WITH PILLOW SPEAKER. PILLOW SPEAKER SHALL INCLUDE 3.5MM AUDIO HEADPHONE JACK.
7. NURSE CALL DUTY STATION IN MEDS ROOM TO BE LOCATED AT DOOR. COORDINATE WITH OWNER PRIOR TO ROUGH-IN.

CODE BLUE SYSTEM: NOTES

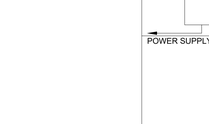
1. CODE BLUE ALARM TO RING AT NURSE'S STATION IN THE AFFECTED AREA AND ALSO SHALL ALERT THE TELEPHONE OPERATOR

AV NURSE CALL/CODE BLUE RISER NTS 8



CABLE TRAY TO OUTLET CONDUIT TRANSITION NTS 7

1 TYPICAL WALL MOUNT PHONE VOIP OUTLET



2 TYPICAL WORK FLOOR MOUNT OUTLET

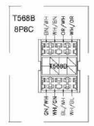
NOTES:

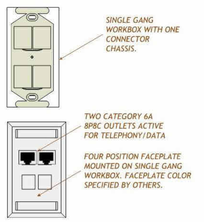
TYPICAL WORK AREA OUTLET FACEPLATE WILL BE INSTALLED WITH CATEGORY 6A COMPONENT-COMPLIANT 8P8C MEDIA INTERFACE CONNECTORS (RJ45). EACH CONNECTOR WILL BE TERMINATED TO HIGH QUALITY CATEGORY 6A HORIZONTAL CABLING WHICH WILL TERMINATE IN THE TELECOMMUNICATIONS ROOM AS SPECIFIED ELSEWHERE IN THIS DESIGN PACKAGE. ALL HORIZONTAL UTP SHALL BE CATEGORY 6A AND TERMINATED TO T568B.

TYPICAL FACEPLATE WILL BE INSTALLED WITH TWO RJ45s.

FACEPLATE MATERIAL AND COLOR DETERMINED BY OTHERS.

THIS SHEET DETAILS A GENERIC FACEPLATE SPECIFICATION.



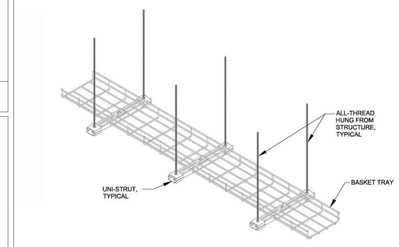


7 STANDARD DENSITY WALL MOUNTED WORK AREA OUTLET CONFIGURATION

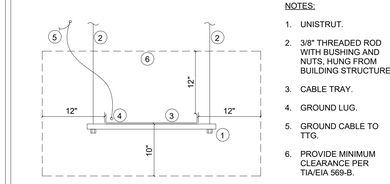
ALL LABELING SHALL BE ANSI/TIA/EIA/606C COMPLIANT. BLACK LETTERING ON WHITE FIELD. MACHINE PRINTED. FURTHER GUIDANCE ON ADMINISTRATION MAY BE SPECIFIED IN OTHER SECTIONS OF THIS DESIGN PACKAGE.

NOTE: ALL EQUIPMENT AND INSTALLATION SHALL BE APPROVED BY VAMC IT DEPARTMENT

TELECOMMUNICATIONS FACEPLATE DETAIL NTS 6



BASKET TRAY WITH TRAPEZE HANGER DETAIL NTS 5

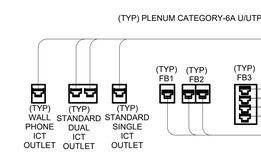


NOTES:

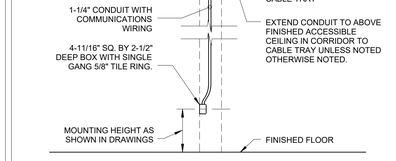
1. UNISTRUT.
2. 3/8" THREADED ROD WITH BUSHING AND NUTS, HUNG FROM BUILDING STRUCTURE.
3. CABLE TRAY.
4. GROUND LUG.
5. GROUND CABLE TO TTG.
6. PROVIDE MINIMUM CLEARANCE PER TIA/EIA 569-B.

LAY-IN CEILING

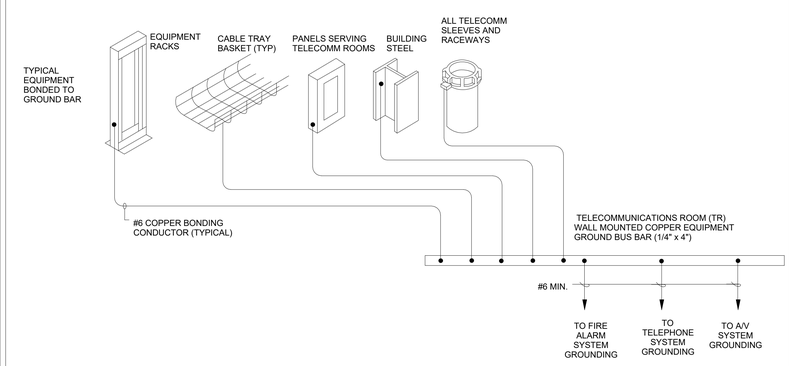
CABLE TRAY CORRIDOR- ELEVATION NTS 3



DATA TYPICAL SINGLE LINE DIAGRAM NTS 4



TELE/DATA OUTLET INSTALLATION DETAIL NTS 2



TELECOMMUNICATIONS GROUNDING RISER NTS 1

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - DETAILS

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: NGE | Drawn: NMG

Project Number: 508-349

Building Number:

Drawing Number: E005

VA FORM 08 - 6231

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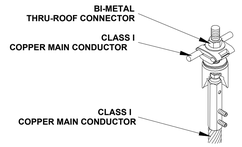

13 THRU-ROOF CONNECTION
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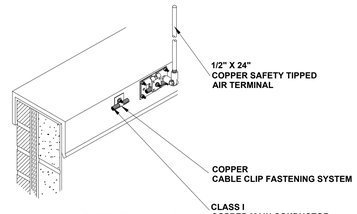

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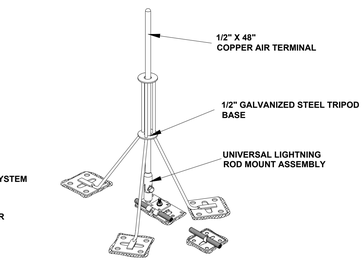

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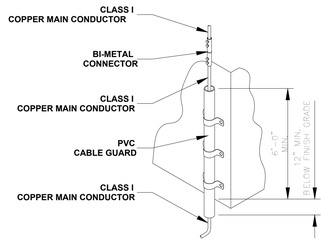

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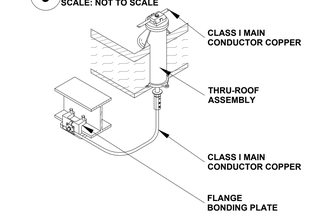

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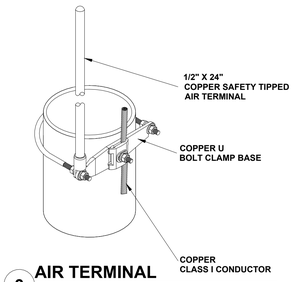

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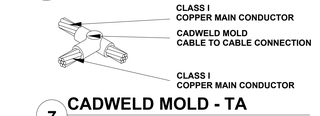

7 CADWELD MOLD - TA
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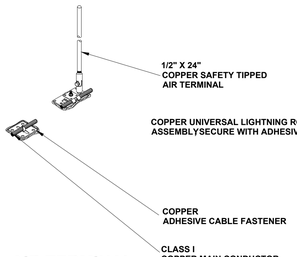

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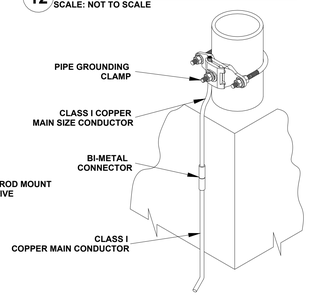

11 EXPOSED DOWNLEAD DETAIL
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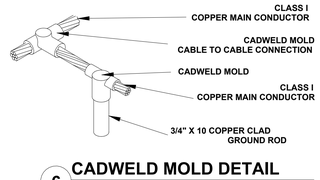

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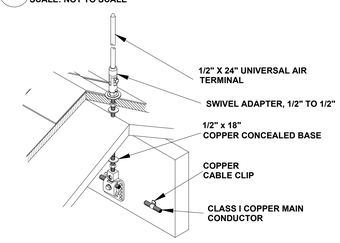

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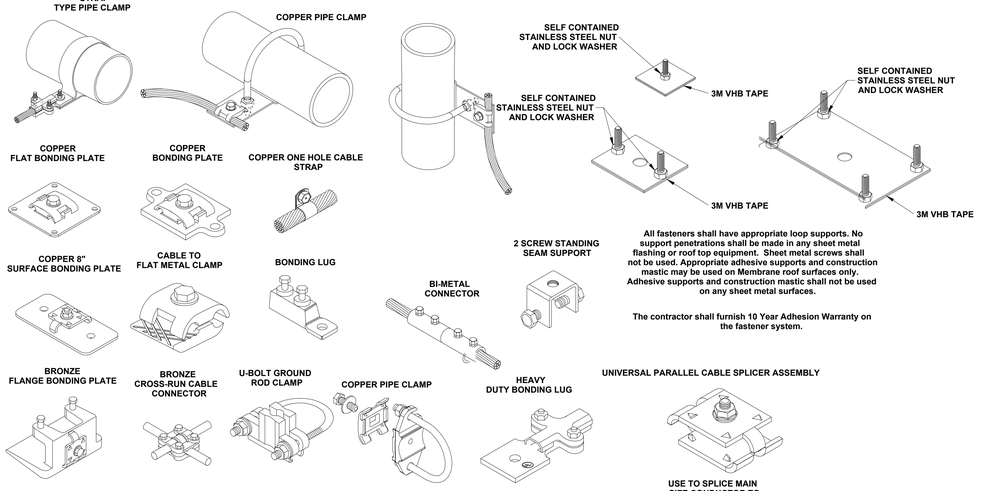

All fasteners shall have appropriate loop supports. No support penetrations shall be made in any sheet metal flashing or roof top equipment. Sheet metal screws shall not be used. Appropriate adhesive supports and construction mastic may be used on Membrane roof surfaces only. Adhesive supports and construction mastic shall not be used on any sheet metal surfaces.

The contractor shall furnish 10 Year Adhesion Warranty on the fastener system.

10 MISCELLANEOUS
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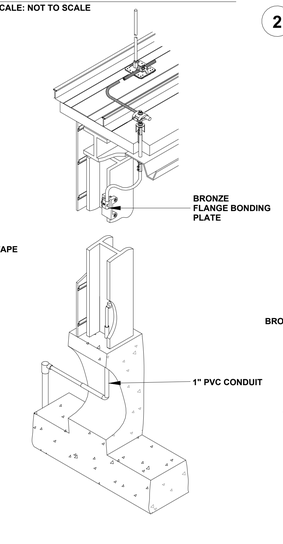

5 TYPICAL DOWNLEAD DETAIL
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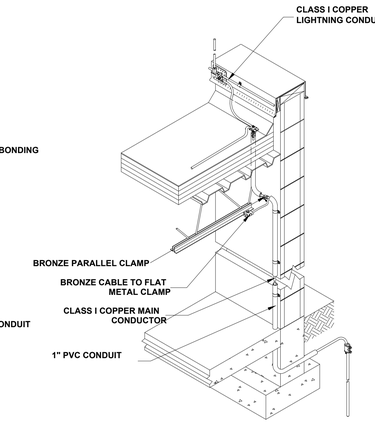


1 TYPICAL DOWNLEAD DETAIL
SCALE: NOT TO SCALE

GENERAL INSTALLATION NOTES

1. LOCATE AIR TERMINALS AS SHOWN. TAKE CARE TO INSURE THAT ALL POINTS ARE WITHIN 2'-0" (609mm) OF OUTSIDE BUILDING EDGE, OUTSIDE CORNERS, RIDGE ENDS, AND THAT MAX SPACING DOES NOT EXCEED 20'-0" (6,096mm), AND THAT MIN PROJECTION ABOVE OBJECT PROTECTED IS 10" (254mm); POINTS PROJECTING 24" (609mm) MAY BE SPACED @ 25'-0" (7,520mm) MAX.
2. MAINTAIN HORIZONTAL OR DOWNWARD COURSING OF MAIN CONDUCTOR. INSURE THAT ALL BENDS HAVE AT LEAST AN 8" (203mm) RADIUS AND DO NOT EXCEED 90 DEGREES.
3. ATTACH ALL EXPOSED ROOF, DOWN LEAD AND BONDING CABLES AT 3'-0" (914mm) ON CENTER MAX. VERIFY COMPATIBILITY OF ADHESIVE ON MEMBRANE ROOF APPLICATION PRIOR TO INSTALLATION.
4. GROUND ELECTRODES SHALL BE INSTALLED AS SHOWN, BUT IN NO INSTANCE SHALL THEY BE LESS THAN 1'-0" (304mm) BELOW GRADE AND 2'-0" (609mm) FROM FOUNDATION WALL. DRIVEN RODS SHALL PENETRATE THE EARTH AT LEAST 10'-0" (3,048mm).
5. BOND TO WATER SERVICE AND OTHER PIPING SYSTEMS AS REQUIRED.
6. MAIN SIZE LIGHTNING CONDUCTOR BONDED TO MAIN GROUND BUS FIELD. VERIFY LOCATION. PROVIDE 1" CONDUIT FOR ACCESS. INTERCONNECT LIGHTNING PROTECTION GROUND TO TELEPHONE AND OTHER BUILDING GROUND SYSTEMS LOCATION FIELD. DETERMINE OR AS REQUIRED BY CODE.
7. SYSTEM SHALL BE INSTALLED AS SHOWN TO INSURE PROPER CODE COMPLIANCE AND SYSTEM CERTIFICATION. ANY MAJOR VARIANCE SHALL BE RESUBMITTED FOR APPROVAL.
8. ALL MATERIALS SHALL BE UNDERWRITER'S LABORATORIES APPROVED WITH "A" LABELS ON CONDUCTORS @ 10'-0" INTERVALS AND "B" LABELS ON ALL AIR TERMINALS.
9. FINAL SYSTEM INSPECTION AND QUALITY CONTROL

   A) THE CONTRACTOR SHALL FURNISH AN LPI-IP CERTIFICATE OR A UL CERTIFICATE UPON COMPLETION OF THE INSTALLATION.

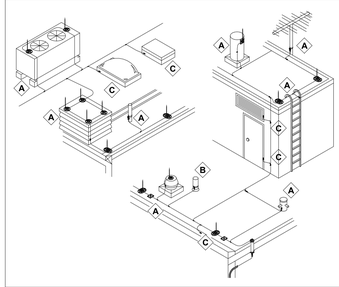
   B) LPI CERTIFICATION REQUIRES A SIGNATURE BY A REPRESENTATIVE OF THE OWNER AT MULTIPLE STAGES OF INSTALLATION & BY THEIR THIRD PARTY FIELD STAFF. UL CERTIFICATION REQUIRES INSPECTION BY THEIR THIRD-PARTY FIELD STAFF AFTER COMPLETION OF THE INSTALLATION.

   C) AS-BUILT DRAWINGS SHALL BE COMPLETED AND STAMPED BY AN LPI CERTIFIED MASTER DESIGNER - INSTALLER OF LIGHTNING PROTECTION SYSTEMS.

   D) FINAL INSPECTION REPORT - A FINAL INSPECTION AND INSPECTION REPORT SHALL BE COMPLETED BASED ON ANSI/TIA/EIA 607, NEC, NFPA 780, AND UL96A INDUSTRY STANDARDS AS APPLICABLE. THE SCOPE OF THE INSPECTION AND REPORT SHALL INCLUDE;

   a. TEST AND EVALUATION THE GROUNDING SYSTEM. RECORD FINAL SYSTEMS TO GROUND RESISTANCE LEVEL.
   b. EVALUATION AND TESTING OF THE INTERNAL BONDING AND GROUNDING SYSTEMS.
   c. EVALUATION AND TESTING OF EQUIPMENT GROUNDING.
   d. EVALUATION OF AC SURGE SUPPRESSION INSTALLATION.
   e. EVALUATION OF TELCO SURGE SUPPRESSION INSTALLATION.
   f. COPY OF THE LPI-IP LIGHTNING PROTECTION CERTIFICATION.
   g. FINAL AS-BUILT REVIEW AND SUBMISSION.

   E) REPORT SHALL INCLUDE DETAILED REPORTING AND TEST RESULTS WITH CORRESPONDING PHOTOS OF EACH EVALUATION CATEGORY.



LEGEND

- AIR TERMINAL
- MECHANICAL CONNECTION
- MISC. BONDING
- TR — THRU-ROOF CONNECTOR
- CLASS I COPPER MAIN CONDUCTOR
- CLASS I COPPER MAIN CONDUCTOR
- COPPER CLAD GROUND ROD WITH ULTRAWELD CONNECTION

NOTE: ALL DETAILS MAY NOT APPLY TO THIS PROJECT.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON | CHARLOTTE ENGINEERS

ARCHITECT, STRUCTURAL ENGINEER
GUIDON DESIGN, INC.
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Nicholas Esposito
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DN: cn=Nicholas Esposito, o=charlotteengineers.com, ou=Nicholas Esposito
Date: 2024.12.16 11:27:55-05'00'

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - DETAILS - LIGHTNING PROTECTION

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: NGE | Drawn: NMG

Project Number: 508-349

Building Number:

Drawing Number: E006

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC\47\92 - CE Central Model.rvt

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VA FORM 08 - 6231

BRANCH CIRCUIT AND FEEDER SCHEDULE

3-PHASE CIRCUITS + NEUTRAL + GROUND

SYMBOL	MINIMUM SIZE CONDUCTORS AND CONDUITS
20 Y	4#12, 1#12 G, 3/4" C.
30 Y	4#10, 1#10G, 3/4" C.
40 Y	4#8, 1#10G, 1" C.
50 Y	4#6, 1#10G, 1" C.
60 Y	4#4, 1#10G, 1-1/4" C.
70 Y	4#4, 1#8G, 1-1/4" C.
80 Y	4#3, 1#8G, 1-1/4" C.
90 Y	4#2, 1#8G, 1-1/2" C.
100 Y	4#1, 1#8G, 1-1/2" C.
125 Y	4#1/0, 1#6G, 2" C.
150 Y	4#1/0, 1#6G, 2" C.
175 Y	4#2/0, 1#6G, 2" C.
200 Y	4#3/0, 1#6G, 2" C.
225 Y	4#4/0, 1#4G, 2 1/2" C.
250 Y	4#250 KCMIL, 1#4G, 2 1/2" C.
300 Y	4#350 KCMIL, 1#2G, 3" C.
350 Y	4#500 KCMIL, 1#3G, 4" C.
400 Y	4#500 KCMIL, 1#3G, 4" C.
500 Y	2 (4#250 KCMIL), 1#2G, 2(2- 1/2" C.)
600 Y	2 (4#350 KCMIL), 1#1G, 2(3" C.)
800 Y	2 (4#500 KCMIL) , 1#1/0G, 2(3" C.)
1000 Y	3 (4#400 KCMIL), 1#2/0G, 3(3" C.)
1200 Y	4 (4#350 KCMIL), 1#3/0G, 4(3" C.)

NOTE: ALL CONDUCTORS ARE COPPER, THWN-2/THHN

BRANCH CIRCUIT AND FEEDER SCHEDULE

3-PHASE CIRCUITS (NO NEUTRAL) + GROUND

SYMBOL	MINIMUM SIZE CONDUCTORS AND CONDUITS
20 △	3#12, 1#12 G, 3/4" C.
30 △	3#10, 1#10G, 3/4 C.
40 △	3#8, 1#10G, 1" C.
50 △	3#6, 1#10G, 1" C.
60 △	3#4, 1#10G, 1" C.
70 △	3#4, 1#8G, 1" C.
80 △	3#3, 1#8G, 1" C.
90 △	3#2, 1#8G, 1-1/2" C.
100 △	3#1, 1#8G, 1- 1/2" C.
125 △	3#1/0, 1#6G, 2" C.
150 △	3#1/0, 1#6G, 2" C.
175 △	3#2/0, 1#6G, 2" C.
200 △	3#3/0, 1#6G, 2" C.
225 △	3#4/0, 1#4G, 2-1/2" C.
250 △	3#250 KCMIL, 1#4G, 2-1/2" C.
300 △	3#350 KCMIL, 1#4G, 3" C.
350 △	3#500 KCMIL, 1#3G, 4" C.
400 △	3#500 KCMIL, 1#3G, 4" C.
500 △	2 (3#250 KCMIL), 1#2G, 2(2 1/2" C.)
600 △	2 (3#350 KCMIL), 1#1G, 2(3" C.)
800 △	2 (3#500 KCMIL) , 1#1/0G, 2(3"C.)
1000 △	3 (3#400 KCMIL), 1#2/0G, 3(3" C.)
1200 △	4 (3#350 KCMIL), 1#3/0G, 4(3" C.)

NOTE: ALL CONDUCTORS ARE COPPER, THWN-2/THHN

TRANSFORMER SCHEDULE

TAG	DESCRIPTION	KVA	PRIMARY	SECONDARY	TYPE	TEMP. RISE	WINDINGS	DESIGN IMPEDANCE	ENCLOSURE / MOUNTING	NOTES
T-MDP	LOW-VOLTAGE DRY-TYPE TRANSFORMER	225	480V-Δ	208Y/120V	STANDARD (K1)	150-DEG C	COPPER	4.4%Z	NEMA 2 / FLOOR PAD	DOE 2016 & NEMA ST-20 COMPLIANT
T-GDP	LOW-VOLTAGE DRY-TYPE TRANSFORMER	225	480V-Δ	208Y/120V	STANDARD (K1)	150-DEG C	COPPER	4.4%Z	NEMA 2 / FLOOR PAD	DOE 2016 & NEMA ST-20 COMPLIANT

GENERATOR SCHEDULE

TAG	DESCRIPTION	SIZE/ RATING/PF	VOLTAGE/ PHASE/FREQ	ENCLOSURE	FUEL TANK SIZE & TYPE	FUEL GPH	EPA RATING	SOUND ATTENUATION	BASIS OF DESIGN
GEN #1	DIESEL GENERATOR WITH WEATHERPROOF, SOUND-ATTENUATING ENCLOSURE SUB-BASE FUEL TANK, SUBPANEL, ANNUNCIATOR, REMOTE ALARM & E-STOPS, AND STEEL PLATFORM. COORDINATE ALL ACCESSORIES WITH VENDOR.	250KW/ 312.5KVA 0.8 PF	480Y/277V 3PH/60HZ	WEATHERPROOF	MIN. 2000 GAL SUB-BASE TANK	18.5 @ FULL LOAD	TIER 3	72 dB(A) AT 23'-0"	GENERAC SD250

TRANSFER SWITCH SCHEDULE

TAG	DESCRIPTION	RATING	VOLTAGE/ PHASE/FREQ	ENCLOSURE / MOUNTING	POLES	SERVICE ENTRANCE RATED	BYPASS ISOLATION	TRANSITION
ATS-SE	AUTOMATIC TRANSFER SWITCH, REDUNDANT NORMAL BRANCH	400A	480Y/277V 3PH/60HZ	NEMA 1 / FLOOR PAD	4-POLE	YES	YES	OPEN
ATS-EQ	AUTOMATIC TRANSFER SWITCH, EQUIPMENT BRANCH	400A	208Y/120V 3PH/60HZ	NEMA 1 / FLOOR PAD	4-POLE	NO	YES	OPEN
ATS-CR	AUTOMATIC TRANSFER SWITCH, CRITICAL BRANCH	200A	208Y/120V 3PH/60HZ	NEMA 1 / FLOOR PAD	4-POLE	NO	YES	OPEN
ATS-N	AUTOMATIC TRANSFER SWITCH, OPTIONAL STANDBY NORMAL BRANCH	200A	208Y/120V 3PH/60HZ	NEMA 1 / FLOOR PAD	4-POLE	NO	YES	OPEN
ATS-LS	AUTOMATIC TRANSFER SWITCH, LIFE SAFETY BRANCH	100A	208Y/120V 3PH/60HZ	NEMA 1 / FLOOR PAD	4-POLE	NO	YES	OPEN
MTS-1	MANUAL TRANSFER SWITCH, TEMPORARY GENERATOR DOCKING STATION	400A	480Y/277V 3PH/60HZ	NEMA 3R / FLOOR PAD	4-POLE	NO	N/A	N/A

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MINIMUM LUMEN OUTPUT	COLOR TEMPERATURE	LAMP/ WATTAGE
A23	2'x2' ARCHITECTURAL LED TROFFER, RECESSED, SMOOTH REFLECTOR CURVED, SMOOTH DIFFUSER, 0-10V DIMMABLE TO 1%.	3300	3500K	LED/27W
A24	2'x2' ARCHITECTURAL LED TROFFER, RECESSED, SMOOTH REFLECTOR CURVED, SMOOTH DIFFUSER, 0-10V DIMMABLE TO 1%.	4800	3500K	LED/42W
A43	2'x4' ARCHITECTURAL LED TROFFER, RECESSED, SMOOTH REFLECTOR CURVED, SMOOTH DIFFUSER, 0-10V DIMMABLE TO 1%.	3300	3500K	LED/24W
A43K	2'x4' ARCHITECTURAL LED TROFFER, RECESSED, NSF RATED (NON-FOOD ZONE AND SPLASH ZONE) 0-10V DIMMABLE TO 1%.	3300	3500K	LED/24W
BOL	3' BOLLARD LIGHTING FIXTURE. DARK BRONZE SLIM TOP BOLLARD. DARK BRONZE FLAT BOLLARD CROWN. INTEGRAL PHOTOELECTRIC CELL.	1000	4000K	LED/13W
D42W	4" ROUND WIDE DISTRIBUTION DOWNLIGHT. SMOOTH CLEAR LENS. 0-10V DIMMABLE TO 1%. DAMP LOCATION LISTED.	2000	3500K	LED/20W
D61	6" ROUND WIDE DISTRIBUTION DOWNLIGHT. SMOOTH CLEAR LENS. 0-10V DIMMABLE TO 1%.	1000	3500K	LED/10W
D62	6" ROUND WIDE DISTRIBUTION DOWNLIGHT. SMOOTH CLEAR LENS. 0-10V DIMMABLE TO 1%.	2000	3500K	LED/20W
D62W	6" ROUND WIDE DISTRIBUTION DOWNLIGHT. SMOOTH CLEAR LENS. 0-10V DIMMABLE TO 1%. DAMP LOCATION LISTED.	2000	3500K	LED/20W
D63	6" ROUND WIDE DISTRIBUTION DOWNLIGHT. SMOOTH CLEAR LENS. 0-10V DIMMABLE TO 1%.	3000	3500K	LED/34W
D65	6" ROUND WIDE DISTRIBUTION DOWNLIGHT. SMOOTH CLEAR LENS. 0-10V DIMMABLE TO 1%.	5000	3500K	LED/50W
D83	8" ROUND WIDE DISTRIBUTION DOWNLIGHT. SMOOTH CLEAR LENS. 0-10V DIMMABLE TO 1%.	3000	3500K	LED/47W
D83W	8" ROUND WIDE DISTRIBUTION DOWNLIGHT. SMOOTH CLEAR LENS. 0-10V DIMMABLE TO 1%. DAMP LOCATION LISTED.	3000	3500K	LED/47W
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TYPE	DESCRIPTION	MINIMUM LUMEN OUTPUT	COLOR TEMPERATURE	LAMP/ WATTAGE
E6	EXIT SIGN, CEILING MOUNTED, EDGELIT, MIRROR BACKGROUND, RED LETTERS, NUMBER OF FACES AND DIRECTIONAL, CHEVRONS AS SHOWN IN DRAWINGS . NFPA 101 & UL 924 COMPLIANT.	--	3500K	LED/5W
E6L	EXIT SIGN, WALL MOUNTED, EDGELIT, MIRROR BACKGROUND, RED LETTERS, NUMBER OF FACES AND DIRECTIONAL, CHEVRONS AS SHOWN IN DRAWINGS . NFPA 101 & UL 924 COMPLIANT.	--	3500K	LED/5W
E7	DUAL HEAD EMERGENCY FIXTURE, WHITE HOUSING, 90 MINUTES BATTERY BACKUP.	1100	5000K	LED/5W
FL1	4' LED STRIP FIXTURE, SURFACE CEILING MOUNTED , STEEL HOUSING, ACRYLIC LENS.	5000	3500K	LED/32W
L1	LINEAR FIXTURE, CURVED LUMINOUS SURFACE LENS, 0.075" ALUMINUM HOUSING, SURFACED MOUNTED, WHITE FINISH. TWO EMERGENCY CIRCUIT OPTION. 0-10V DIMMABLE TO 1%.	350/FT	3500K	LED/4W
L1W	LINEAR FIXTURE, CURVED LUMINOUS SURFACE LENS, 0.075" ALUMINUM HOUSING, SURFACED MOUNTED, WHITE FINISH. TWO EMERGENCY CIRCUIT OPTION. 0-10V DIMMABLE TO 1%. WET LOCATION LISTED.	350/FT	3500K	LED/4W
L48	48" PATIENT BED LUMINAIRE, ASYMMETRIC UPLIGHT/ DOWNLIGHT, WITH READING AND AMBIENT FUNCTIONS. 0-10V DIMMABLE TO 1%.	5900 UP/ 4000 DOWN	3500K	LED/45W
NL	RECESSED NIGHT LIGHT. AMBER, PHOTOCELL, DAMP LOCATION LISTED.	--	--	LED/5W
V	20" LINEAR SCONCE, GLASS LENS, ALUMINUM HOUSING, NICKEL FINISH. SURFACE MOUNTED. 0-10V DIMMABLE TO 1%. DAMP LOCATION LISTED.	1600	3000K	LED/20W
W1	24" LINEAR SCONCE, 3/16" ACRILIC LENS, 0.125" ALUMINUM HOUSING,BRASS METALLIC FINISH . SURFACE MOUNTED. 0-10V DIMMABLE TO 1%	2000	3500K	LED/37W
W1W	24" LINEAR SCONCE, 3/16" ACRILIC LENS, 0.125" ALUMINUM HOUSING,BRASS METALLIC FINISH . SURFACE MOUNTED. WET LOCATION LISTED.	2000	4000K	LED/37W
W2	14" LINEAR LAYERED SCONCE, ACRILIC LENS, , IVORY FINISH . SURFACE MOUNTED. 0-10V DIMMABLE TO 1%. WET LOCATION LISTED.	--	3500K	LED/8W
W3	9" RECTANGULAR WALL SCONCE, WIDE DISTRIBUTION, ALUMINUM HOUSING, BLACK FINISH SURFACE MOUNTED. WET LOCATION LISTED.	2000	4000K	LED/15W
W4	RECESSED STEP LIGHT,POLYCARBONATE LENS, CAST ALUMINUM HOUSING PHOTOCELL, BLACK FINISH, WET LOCATION LISTED.	500	4000K	LED/5W

LUMINAIRE SCHEDULE NOTES :

1. COORDINATE WITH ARCHITECTURAL DRAWINGS (REFLECTED CEILING PLANS AND ELEVATIONS) FOR EXACT LOCATIONS OF LUMINAIRES, CEILING TYPES AND MOUNTING HEIGHTS.
2. ALL LUMINAIRE SUBMITTALS SHALL INCLUDE LED AND DRIVER CUT/DATA SHEETS.
3. ALL CEILING MOUNTED LUMINAIRES SHALL HAVE ROOM SIDE ACCESSIBLE DRIVERS.
4. ALL FIXTURES SHALL HAVE A COLOR RENDERING INDEX (CRI) OF 80 OR GREATER.
5. ALL FINISHES SHALL BE VERIFIED WITH THE COR AND ARCHITECT PRIOR TO ORDERING.

NEW ELECTRICAL SERVICE LOAD SUMMARY

SERVICE CHARACTERISTICS:		480Y/277V, 3PH, 4PH
EXISTING UTILITY TRANSFORMER RATING		750 KVA
BASE BUILDING MAX DEMAND LOAD (ELECTRIC BILLS 12/2022-11/2023)		250.1 KVA
LOAD ADDED FROM NEW WORK:	+	162.6 KVA
TOTAL CONNECTED LOAD:		412.7 KVA
		496.4 A

ALTERNATE NOTE:

(A) IF ALTERNATE A IS ACCEPTED:

- OMIT NEW UTILITY TRANSFORMER AND CT METERING ENCLOSURE AND REPLACE WITH NEW UTILITY CABINET.
- ATS-SE SHALL BE PLACED IN MANUAL MODE AND LOCKED INTO POSITION FOR THE ONLY AVAILABLE SOURCE.

POWER RISER DIAGRAM GENERAL NOTES

A. ALL ELECTRICAL EQUIPMENT SHOWN ON THIS RISER IS NEW AND SHALL BE PROVIDED BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.

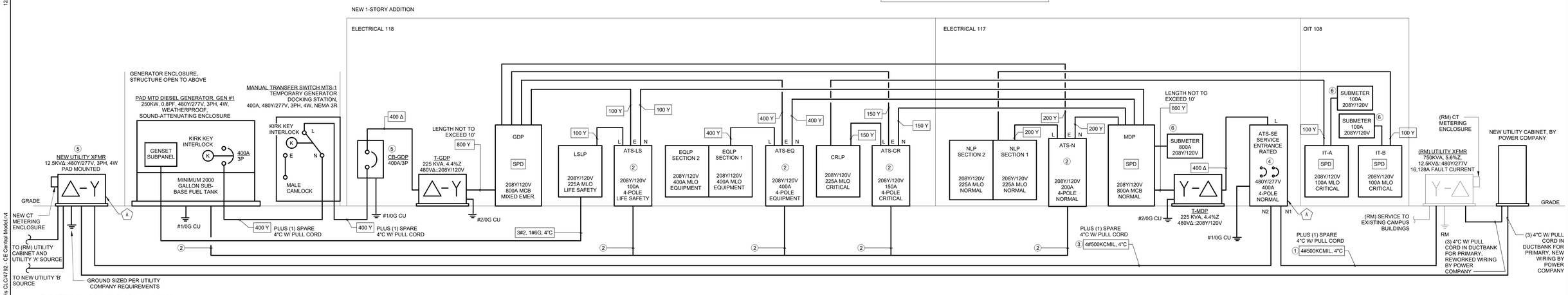
B. ENCASE ALL UNDERGROUND DUCTS AND CONDUITS IN CONCRETE. DIRECT BURIAL CONDUIT MAY BE ALLOWED ONLY FOR OUTDOOR LIGHTING AND POWER BRANCH CIRCUITS, PER VA ELECTRICAL DESIGN MANUAL 2.1.2(a). REFER TO DETAILS FOR ADDITIONAL INFORMATION.

POWER RISER DIAGRAM KEYED NOTES

1. PROVIDE NEW SECONDARY SERVICE FEEDER FROM EXISTING UTILITY TRANSFORMER. COORDINATE REQUIREMENTS WITH UTILITY COMPANY REPRESENTATIVE.
2. PROVIDE 2#14 IN 1"C RUN WITHIN GENERATOR DUCTBANK FROM EACH ATS TO THE GENSET.
3. PROVIDE NEW SECONDARY SERVICE FEEDER FROM NEW UTILITY TRANSFORMER. COORDINATE REQUIREMENTS WITH UTILITY COMPANY REPRESENTATIVE PRIOR TO ROUGH-IN.
4. AUTOMATIC TRANSFER SWITCH WITH TWO 400A CIRCUIT BREAKERS AND LISTED AND LABELED FOR USE AS SERVICE ENTRANCE EQUIPMENT.
5. CONTRACTOR SHALL PROVIDE POWER COMPANY APPROVED CONCRETE PAD AND METER ENCLOSURE, ALONG WITH ALL: EXCAVATION, BACKFILLING, CONDUITS, CONNECTIONS, GROUNDING, ETC. REQUIRED BY CARROLL ELECTRIC MEMBERSHIP COOPERATIVE (CEMC). REFER TO LATEST POWER COMPANY HANDBOOK FOR ADDITIONAL INFORMATION AND COORDINATE REQUIREMENTS WITH CEMC REPRESENTATIVE.
6. PROVIDE DIGITAL SUBMETER WITH STEEL ENCLOSURE, SPLIT-CORE CURRENT SENSORS AND BUILDING MANAGEMENT SYSTEM (BMS) INTERFACE CAPABILITY. CONNECT TO EXISTING NETWORKING PANEL IN BASE BUILDING MAIN IT ROOM E048.

RISER LEGEND

- EXISTING TO REMAIN (RM)
- EXISTING TO BE REMOVED (RV)
- NEW BY CONTRACTOR, UON



(1) ELECTRICAL - POWER RISER DIAGRAM
NOT TO SCALE

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON / CHARLOTTE ENGINEERS

ARCHITECT, STRUCTURAL ENGINEER
GUIDON DESIGN, INC.
1221 N. PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202

FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
CHARLOTTE ENGINEERS
5838 MONROE ROAD
CHARLOTTE, NC 28212

STAMP

GEORGIA REGISTERED No. PE052010 PROFESSIONAL ENGINEER Nicholas Esposito

Nicholas Esposito
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DN: cn=Nicholas Esposito, o=Charlotte Engineers, ou=Electrical, email=nesposito@charlotteengineers.com, c=US
Date: 2024.12.16 12:21:43 -05'00'

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL - POWER RISER DIAGRAM AND SCHEDULES

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT TDVV CLC 12 BEDS

Location
180 MARTIN DR, CARROLLTON, GA 30117

Issue Date 12/16/2024 | **Checked** NGE | **Drawn** NMG

Project Number 508-349

Building Number

Drawing Number E007

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC/4792 - CE Central Model.rvt
12/16/2024 9:46:11 AM

VA FORM 08 - 6231

Panelboard: LSLP

Location: ELECTRICAL 118 | **Supply From:** ATS-LD | **Mounting:** Surface | **Enclosure:** 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10kA | **Mains Type:** MLO | **Mains Rating:** 100 A

CIR	DESCRIPTION	NOTE	GND	SIZE	#	C	P	AMP	A	B	C	A	B	C	AMP	P	C	#	SIZE	GND	NOTE	DESCRIPTION	CIR
1	LTG - EXTERIOR BASEMENT		12	12	2	3/4	1	20	0.0			0.0			20	1						SPARE	2
3	LTG - EGRESS		12	12	2	3/4	1	20		0.6			0.0		20	1						SPARE	4
5	LTG - EGRESS		12	12	2	3/4	1	20			0.5			0.0	20	1						SPARE	6
7	TIME CLOCK		12	12	2	3/4	1	20	0.2			0.0			20	1						SPARE	8
9	LTG - BASEMENT		12	12	2	3/4	1	20		0.0			0.0		20	1						SPARE	10
11	LTG - EXIT SIGNS		12	12	2	3/4	1	20			0.0			0.0	20	1						SPARE	12
13	FIRE ALARM PANEL - OIT 108		12	12	2	3/4	1	20	0.7			0.0			20	1						SPARE	14
15	MOD - VESTIBULE 132		12	12	2	3/4	1	20		0.4			0.0		20	1						SPARE	16
17	MOD - CORR 101, 121,134	1	12	12	2	3/4	1	20			0.8			0.0	20	1						SPARE	18
19	SPARE						1	20	0.0			0.0			20	1						SPARE	20
21	SPARE						1	20		0.0			0.0		20	1						SPARE	22
23	SPARE						1	20			0.0			0.0	20	1						SPARE	24
25	SPARE						1	20	0.0			--			--	1						SPACE ONLY	26
27	SPACE ONLY						1	--		--			--		--	1						SPACE ONLY	28
29	SPACE ONLY						1	--			--			--	--	1						SPACE ONLY	30

	PHASE A	PHASE B	PHASE C
Total Load:	0.9 kVA	1.0 kVA	1.3 kVA
	7 A	8 A	11 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	1124 VA	125.00%	1405 VA		
Other	180 VA	100.00%	180 VA	**Total Conn. Load:**	3204 VA
Power	1900 VA	100.00%	1900 VA	**Total Est. Demand:**	3485 VA
				Total Conn.:	9 A
				Total Est. Demand:	10 A

Notes:
1. CIRCUIT BREAKER SHALL BE RED AND PROVIDED WITH A DEVICE TO LOCK THE BREAKER IN THE "ON" (CLOSED) POSITION.

Panelboard: CRLP

NEW

Location: ELECTRICAL 118 | **Supply From:** ATS-CR | **Mounting:** Surface | **Enclosure:** 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10kA | **Mains Type:** MLO | **Mains Rating:** 225 A

CIR	DESCRIPTION	NOTE	GND	SIZE	#	C	P	AMP	A	B	C	A	B	C	AMP	P	C	#	SIZE	GND	NOTE	DESCRIPTION	CIR
1	LTS - BASEMENT		12	12	2	3/4	1	20	0.1			0.5			20	1	3/4	2	12	12	3	LTS- BEDRM122/126,...	2
3	REC - BEDROOM 139		12	12	2	3/4	1	20		0.2			1.2		20	1	3/4	2	12	12		REC - SCOOT - BED RM...	4
5	REC - BEDROOMS 137, 138		12	12	2	3/4	1	20			0.4			0.1	20	1	3/4	2	12	12		LTG - BARIATRIC ROOMS	6
7	REC - BEDROOMS 135, 136		12	12	2	3/4	1	20	0.4			0.8			20	1	3/4	2	12	12		REC - SCOOT - BED RM...	8
9	REC - BARIA 130 & 131		12	12	2	3/4	1	20		0.4			1.2		20	1	3/4	2	12	12		REC - SCOOT - BED RM...	10
11	REC - BEDROOMS 125, 126		12	12	2	3/4	1	20			0.4			0.4	20	1	3/4	2	12	12		REC - CORR 134	12
13	REC - BEDROOMS 123, 124		12	12	2	3/4	1	20	0.4			0.8			20	1	3/4	2	12	12		REC - SCOOT - BED RM...	14
15	REC - BEDROOM 122		12	12	2	3/4	1	20		0.2			1.2		20	1	3/4	2	12	12		ACCESS CTRL PANEL	16
17	REC - MED 113		12	12	2	3/4	1	20			1.5			1.2	20	1	3/4	2	12	12		NURSE CALL PANEL	18
19	REC - REF. - MED 113		12	12	2	3/4	1	20	1.0			0.4			20	1	3/4	2	12	12		REC - CORRS 121	20
21	REC - CLEAN UTILITY 116		12	12	2	3/4	1	20		0.6			1.2		20	1	3/4	2	12	12		REC - WRK STN - WRK RM 119	22
23	REC - MED 113		12	12	2	3/4	1	20			1.5			1.2	20	1	3/4	2	12	12		INTRUSION DETECTION...	24
25	PANELBOARD IT-A	1					3	100	2.7			0.0			20	1						SPARE	26
27	--						--	--		2.3			0.0		20	1						SPARE	28
29	--						--	--			2.3			0.0	20	1						SPARE	30
31	ROAM ALERT PANEL		12	12	2	3/4	1	20	1.2			0.0			20	1						SPARE	32
33	REC - GET WELL SYSTEM		12	12	2	3/4	1	20		0.2			0.0		20	1						SPARE	34
35	PACS PANEL		12	12	2	3/4	1	20			1.2			0.0	20	1						SPARE	36
37	LTS - OIT, TLT, LNDRY, EQUP...	2	12	12	2	3/4	1	20	0.2			0.0			20	1						SPARE	38
39	PAGINGN SYSTEM PANEL		12	12	2	3/4	1	20		1.2			0.0		20	1						SPARE	40
41	LTS - BED RM 135/139, TLT...		12	12	2	3/4	1	20			0.3			0.0	20	1						SPARE	42

	PHASE A	PHASE B	PHASE C
Total Load:	8.6 kVA	9.9 kVA	10.5 kVA
	72 A	84 A	89 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	4000 VA	100.00%	4000 VA		
Lighting	1264 VA	125.00%	1580 VA	**Total Conn. Load:**	28978 VA
Other	0 VA	0.00%	0 VA	**Total Est. Demand:**	28035 VA
Power	7200 VA	100.00%	7200 VA	**Total Conn.:**	80 A
Receptacle	12517 VA	89.95%	11259 VA	**Total Est. Demand:**	78 A
Receptacle - Equipment	4000 VA	100.00%	4000 VA		

Notes:
1. REFER TO RISER DIAGRAM FOR FEEDER SIZE.
2. LIGHTING CIRCUIT FOR ROOMS: OIT 108, TOILET STAFF 109, LAUNDRY 111, EQUPMENT 112, MED 113, ELECTRICAL 117, 118.
3. LIGHTING CIRCUIT FOR ROOMS: BEDROOMS 122/126, BATHING ROOM 127.

Panelboard: GDP

NEW

Location: ELECTRICAL 118 | **Supply From:** GENERATOR | **Mounting:** Surface | **Enclosure:** 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10kA | **Mains Type:** 800 A Main Circuit Breaker | **Mains Rating:** 800 A

CIR	DESCRIPTION	NOTE	GND	SIZE	#	C	P	AMP	A	B	C	A	B	C	AMP	P	C	#	SIZE	GND	NOTE	DESCRIPTION	CIR
1	PNLBRD NLP VIA ATS-N	1					3	200	23.1			--			--	1						SPACE ONLY	2
3	--						--	--		20.5			--		--	1						SPACE ONLY	4
5	--						--	--			22.0			--	--	1						SPACE ONLY	6
7	PNLBRD CRLP VIA ATS-CR	1					3	200	8.6			--			--	1						SPACE ONLY	8
9	--						--	--		9.9			--		--	1						SPACE ONLY	10
11	--						--	--			10.5			--	--	1						SPACE ONLY	12
13	PNLBRD LSLP VIA ATS-LS	1					3	100	0.9			--			--	1						SPACE ONLY	14
15	--						--	--		1.0			--		--	1						SPACE ONLY	16
17	--						--	--			1.3			--	--	1						SPACE ONLY	18
19	PNLBRD EQLP VIA ATS-EQ	1					3	400	42.0			--			--	1						SPACE ONLY	20
21	--						--	--		38.6			--		--	1						SPACE ONLY	22
23	--						--	--			34.7			--	--	1						SPACE ONLY	24
25	SPACE ONLY						1	--	--			--			--	1						SPACE ONLY	26
27	SPACE ONLY						1	--		--			--		--	1						SPACE ONLY	28
29	SPACE ONLY						1	--			--			--	--	1						SPACE ONLY	30

	PHASE A	PHASE B	PHASE C
Total Load:	74.5 kVA	69.9 kVA	68.5 kVA
	623 A	584 A	571 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	10750 VA	100.00%	10750 VA		
HVAC	82929 VA	100.00%	82929 VA	**Total Conn. Load:**	212958 VA
Kitchen Equipment - Non-Dwelling Unit	11070 VA	70.00%	7749 VA	**Total Est. Demand:**	186357 VA
Lighting	11288 VA	125.00%	14110 VA	**Total Conn.:**	591 A
Other	680 VA	100.00%	680 VA	**Total Est. Demand:**	517 A
Power	10800 VA	100.00%	10800 VA		
Receptacle	62202 VA	58.04%	36101 VA		
Miscellaneous	2849 VA	100.00%	2849 VA		
Receptacle - Equipment	20394 VA	100.00%	20394 VA		

Notes:
1. REFER TO RISER DIAGRAM FOR FEEDER SIZE.

Panelboard: IT-A

NEW

Location: OIT 108 | **Supply From:** CRLP | **Mounting:** Surface | **Enclosure:** 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10kA | **Mains Type:** MLO | **Mains Rating:** 100 A

CIR	DESCRIPTION	NOTE	GND	SIZE	#	C	P	AMP	A	B	C	A	B	C	AMP	P	C	#	SIZE	GND	NOTE	DESCRIPTION	CIR
1	REC - OIT 108		10	10	4	3/4	3	30	2.3			0.0			20	3						SUBMETER	2
3	--						--	--		2.3			0.0		--	--						--	4
5	--						--	--			2.3			0.0	--	--						--	6
7	REC - OIT 108		12	12	2	3/4	1	20	0.4			0.0			20	1						SPARE	8
9	SPARE						1	20		0.0			0.0		20	1						SPARE	10
11	SPARE						1	20			0.0			0.0	20	1						SPARE	12
13	SPARE						1	20	0.0			0.0			20	1						SPARE	14
15	SPARE						1	20		0.0			0.0		20	1						SPARE	16
17	SPARE						1	20			0.0			0.0	20	1						SPARE	18
19	SPARE						1	20	0.0			0.0			20	1						SPARE	20
21	SPARE						1	20		0.0			0.0		20	1						SPARE	22
23	SPARE						1	20			0.0			0.0	20	1						SPARE	24
25	SPARE						1	20	0.0			0.0			20	1						SPARE	26
27	SPARE						1	20		0.0			0.0		20	1						SPARE	28
29	SPARE						1	20			0.0			0.0	20	1						SPARE	30

	PHASE A	PHASE B	PHASE C
Total Load:	2.7 kVA	2.3 kVA	2.3 kVA
	23 A	19 A	19 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	7317 VA	100.00%	7317 VA		
				Total Conn. Load:	7317 VA
				Total Est. Demand:	7317 VA
				Total Conn.:	20 A
				Total Est. Demand:	20 A

Notes:

Panelboard: IT-B

NEW

Location: OIT 108 | **Supply From:** NLP | **Mounting:** Surface | **Enclosure:** 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10kA | **Mains Type:** MLO | **Mains Rating:** 100 A

CIR	DESCRIPTION	NOTE	GND	SIZE	#	C	P	AMP	A	B	C	A	B	C	AMP	P	C	#	SIZE	GND	NOTE	DESCRIPTION	CIR
1	REC - OIT 108		10	10	4	3/4	3	30	2.3			0.0			20	3						SUBMETER	2
3	--						--	--		2.3			0.0		--	--						--	4
5	--						--	--			2.3			0.0	--	--						--	6
7	REC - OIT 108		12	12	2	3/4	1	20	0.8			0.0			20	1						SPARE	8
9	SPARE						1	20		0.0			0.0		20	1						SPARE	10
11	SPARE						1	20			0.0			0.0	20	1						SPARE	12
13	SPARE						1	20	0.0			0.0			20	1						SPARE	14
15	SPARE						1	20		0.0			0.0		20	1						SPARE	16
17	SPARE						1	20			0.0			0.0	20	1						SPARE	18
19	SPARE						1	20	0.0			0.0			20	1						SPARE	20
21	SPARE						1	20		0.0			0.0		20	1						SPARE	22
23	SPARE						1	20			0.0			0.0	20	1						SPARE	24
25	SPARE						1	20	0.0			0.0			20	1						SPARE	26
27	SPARE						1	20		0.0			0.0		20	1						SPARE	28
29	SPARE						1	20			0.0			0.0	20	1						SPARE	30

	PHASE A	PHASE B	PHASE C
Total Load:	3.1 kVA	2.3 kVA	2.3 kVA
	26 A	19 A	19 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	7717 VA	100.00%	7717 VA		
				Total Conn. Load:	7717 VA
				Total Est. Demand:	7717 VA
				Total Conn.:	21 A
				Total Est. Demand:	21 A

Notes:

Panelboard: MDP

NEW

Location: ELECTRICAL 117 | **Supply From:** ATS ENTRANCE SERVICE VIA T-MDP | **Mounting:** Surface | **Enclosure:** 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 14kA | **Mains Type:** 800 A Main Circuit Breaker | **Mains Rating:** 800 A

CIR	DESCRIPTION	NOTE	GND	SIZE	#	C	P	AMP	A	B	C	A	B	C	AMP	P	C	#	SIZE	GND	NOTE	DESCRIPTION	CIR
1	PNLBRD NLP VIA ATS-N	1					3	200	23.1			0.0			20	3						SUBMETER	2
3	--						--	--		20.5			0.0		--	--						--	4
5	--						--	--			22.0			0.0	--	--						--	6
7	PNLBRD CRLP VIA ATS-CR	1					3	200	8.6			--			--	1						SPACE ONLY	8
9	--						--	--		9.9			--		--	1						SPACE ONLY	10
11	--						--	--			10.5			--	--	1						SPACE ONLY	12
13	PNLBRD LSLP VIA ATS-LS	1					3	100	0.9			--			--	1						SPACE ONLY	14
15	--						--	--		1.0			--		--	1						SPACE ONLY	16
17	--						--	--			1.3			--	--	1						SPACE ONLY	18
19	PNLBRD EQLP VIA ATS-EQ	1					3	400	42.0			--			--	1						SPACE ONLY	20
21	--						--	--		38.6			--		--	1						SPACE ONLY	22
23	--						--	--			34.7			--	--	1						SPACE ONLY	24
25	SPACE ONLY						1	--	--			--			--	1						SPACE ONLY	26
27	SPACE ONLY						1	--		--			--		--	1						SPACE ONLY	28
29	SPACE ONLY						1	--			--			--	--	1						SPACE ONLY	30

	PHASE A	PHASE B	PHASE C
Total Load:	74.5 kVA	69.9 kVA	68.5 kVA
	623 A	584 A	571 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	10750 VA	100.00%	10750 VA		
HVAC	82929 VA	100.00%	82929 VA	**Total Conn. Load:**	212958 VA
Kitchen Equipment - Non-Dwelling Unit	11070 VA	70.00%	7749 VA	**Total Est. Demand:**	186357 VA
Lighting	11288 VA	125.00%	14110 VA	**Total Conn.:**	591 A
Other	680 VA	100.00%	680 VA	**Total Est. Demand:**	517 A
Power	10800 VA	100.00%	10800 VA		
Receptacle	62202 VA	58.04%	36101 VA		
Miscellaneous	2849 VA	100.00%	2849 VA		
Receptacle - Equipment	20394 VA	100.00%	20394 VA		

Notes:
1. REFER TO RISER DIAGRAM FOR FEEDER SIZE.

--	--	--
LSLP	CRLP	GDP
IT-A	IT-B	MDP

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON

ARCHITECT, STRUCTURAL ENGINEER
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INDIANAPOLIS, IN 46202

CHARLOTTE ENGINEERS

FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
CHARLOTTE ENGINEERS
5838 MONROE ROAD
CHARLOTTE, NC 28212

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GEORGIA REGISTERED No. PE052010 PROFESSIONAL ENGINEER NICHOLAS G. ESPOSITO
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DN: cn=Nicholas Esposito, o=Charlotte Engineers, c=US, email=nesposito@charlotteengineers.com
Date: 2024.12.16 12:27:26-05'00'

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - PANELBOARD SCHEDULES

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: NGE | Drawn: NMG

Project Number: 508-349

Building Number:

Drawing Number: E008

12/16/2024 9:46:15 AM

Autodesk Docs://22.9003 - VA Atlanta Tinka Davis CLC/47162 - CE Central Model.rvt

VA FORM 08 - 6231

Panelboard: EQLP

NEW SECTION 1

Location: ELECTRICAL 118 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22kA
Supply From: ATS-EQ | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: 1

CIR	DESCRIPTION	NOTE	GND	SIZE	#	C	P	AMP	A	B	C	A	B	C	AMP	P	C	#	SIZE	GND	NOTE	DESCRIPTION	CIR
1	CU-1		10	6	3	1	3	40	2.5			4.2			45	3	1	3	6	10		DOAS-1	2
3	--						--	--		2.5			4.2		--	--						--	4
5	--						--	--			2.5			4.2	--	--						--	6
7	CU-2		10	6	3	1	3	60	3.9			0.4			15	1	3/4	2	12	12		REC - GWH-1	8
9	--						--	--		3.9			0.4		15	1	3/4	2	12	12		REC - GWH-2	10
11	--						--	--			3.9			0.2	15	1	3/4	2	12	12		SWITCH - RCP-1	12
13	CU-3		10	6	3	1	3	50	2.5			1.5			20	2	3/4	2	12	12		SP-1	14
15	--						--	--		2.5			1.5		--	--						--	16
17	--						--	--			2.5			0.1	20	1	3/4	2	12	12		DOOR CTRLS - MECH RM	18
19	CU-DOA- A		10	6	3	1	3	45	2.8			2.8			35	3	1	3	8	10		CU-MUA	20
21	--						--	--		2.8			2.8		--	--						--	22
23	--						--	--			2.8			2.8	--	--						--	24
25	CU-DOAS-B		10	6	3	1	3	45	2.8			2.5			35	2	1	2	8	10		EUH-1	26
27	--						--	--		2.8			2.5		--	--						--	28
29	--						--	--			2.8			2.5	35	2	1	2	8	10		EUH-2	30
31	SPARE						3	35	0.0			2.5			--	--						--	32
33	--						--	--		0.0			0.0		45	3						SPARE	34
35	--						--	--			0.0			0.0	--	--						--	36
37	SPARE						3	40	0.0			0.0			--	--						--	38
39	--						--	--		0.0			0.0		20	1						SPARE	40
41	--						--	--			0.0			0.0	15	1						SPARE	42

	PHASE A	PHASE B	PHASE C
Total Load:	42.0 kVA	38.6 kVA	34.7 kVA
	355 A	326 A	289 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	6750 VA	100.00%	6750 VA		
HVAC	82929 VA	100.00%	82929 VA	**Total Conn. Load:**	115257 VA
Kitchen Equipment - Non-Dwelling Unit	9070 VA	90.00%	8163 VA	**Total Est. Demand:**	114350 VA
Power	1700 VA	100.00%	1700 VA	**Total Conn.:**	320 A
Receptacle	4208 VA	100.00%	4208 VA	**Total Est. Demand:**	317 A
Miscellaneous	800 VA	100.00%	800 VA		
Receptacle - Equipment	9800 VA	100.00%	9800 VA		

Notes:

Panelboard: EQLP

NEW SECTION 2

Location: ELECTRICAL 118 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22kA
Supply From: ATS-EQ | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: 1

CIR	DESCRIPTION	NOTE	GND	SIZE	#	C	P	AMP	A	B	C	A	B	C	AMP	P	C	#	SIZE	GND	NOTE	DESCRIPTION	CIR
43	FCU-1-7,-21/3,2-7/8,3-6/7,3-9/10		12	12	2	3/4	2	15	0.6			0.7			20	1	3/4	2	12	12		JB - DR CTL - 108, 114, 113, 132	44
45	--						--	--		0.6			0.2		20	1	3/4	2	12	12		REC - RANGE - KITCHEN 104	46
47			10	10	2	3/4								--	--	1					3	SHUNT TRIP MODULE	48
49												0.2			20	1	3/4	2	12	12		DOAS-1 CTRLS	50
51	FCU-2-1/3,2-7/8,3-6/7		10	8	2	1	2	15	1.1			1.2			20	1	3/4	2	10	10		REC - GREASE INT - KTCH 104	52
53	--						--	--		1.1			1.2		20	1	3/4	2	10	10		REC - GREASE INT - KTCH 104	54
55			12	12	2	3/4						2.0			35	2	1	2	4	8		CU-4	56
57													2.0		--	--						--	58
59	FSD CTRLS		12	12	2	1	1	20		0.6			0.6		20	2	3/4	2	12	12		EF-1	60
61	MUA-1		12	12	3	3/4	3	15	1.0			0.6			--	--						--	62
63	--						--	--		1.0			0.2		20	1	3/4	2	12	12		REFRIGERANT CTRLS PANEL	64
65	--						--	--			1.0			0.2	20	1	3/4	2	12	12		HVAC CTRLS PANEL	66
67	REC - FREZZER - KITCHEN 104		10	8	2	1	1	15	1.1			1.2			15	1	3/4	2	12	12		HOOD CTL PANEL - KTCH 104	68
69	REC - REF. - KITCHEN 104		12	12	2	3/4	1	15		0.7							3/4	2	12	12			70
71	REC - DISHWSR - KITCHEN 104		10	8	3	1	3	30			3.0												72
73	--						--	--	3.0			0.5			20	1	3/4	2	12	12		MUA-1 CTRLS	74
75	--						--	--		3.0			0.0		15	1						SPARE	76
77	SHUNT TRIP MODULE	2					1	--			--				20	1						SPARE	78
79	COMBI OVEN - KITCHEN 104		10	8	3	1	3	30	2.6			0.0			25	3						SPARE	80
81	--						--	--	2.6			0.0			--	--						--	82
83	--						--	--		2.6			0.0		--	--						--	84

	PHASE A	PHASE B	PHASE C
Total Load:	13.5 kVA	12.6 kVA	10.3 kVA
	116 A	108 A	86 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	3411 VA	100.00%	3411 VA		
HVAC	8340 VA	100.00%	8340 VA	**Total Conn. Load:**	36429 VA
Kitchen Equipment - Non-Dwelling Unit	9070 VA	90.00%	8163 VA	**Total Est. Demand:**	35522 VA
Power	1700 VA	100.00%	1700 VA	**Total Conn.:**	101 A
Receptacle	4208 VA	100.00%	4208 VA	**Total Est. Demand:**	99 A
Miscellaneous	700 VA	100.00%	700 VA		
Receptacle - Equipment	9000 VA	100.00%	9000 VA		

Notes:
1. BREAKER SHALL BE PROVIDED WITH GFCI PROTECTION FOR PERSONNEL.
2. SPACE ABOVE IS RESERVED FOR SHUNT TRIP.
3. SPACE BELOW IS RESERVED FOR SHUNT TRIP.

Panelboard: GEN#1SUBPANEL

NEW

Location: GENERATOR ENCLOSURE | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10kA
Supply From: LSLP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: 1

CIR	DESCRIPTION	NOTE	GND	SIZE	#	C	P	AMP	A	B	C	A	B	C	AMP	P	C	#	SIZE	GND	NOTE	DESCRIPTION	CIR
1	JACKET HEATER		10	8	2	1	2	20	1.5			0.4			20	1	3/4	2	12	12		GEN RECEPTACLE	2
3	--						--	--		1.5			0.1		20	1	3/4	2	12	12		GEN ENCLOSURE LIGHTING	4
5	SPACE ONLY						1	--			--			1.5	20	1	3/4	2	12	12		GEN BATTERY CHARGER	6
7	SPACE ONLY						1	--	--			--			--	1						SPACE ONLY	8
9	SPACE ONLY						1	--		--			--		--	1						SPACE ONLY	10
11	SPACE ONLY						1	--			--			--	--	1						SPACE ONLY	12
13	SPACE ONLY						1	--	--			--			--	1						SPACE ONLY	14
15	SPACE ONLY						1	--		--			--		--	1						SPACE ONLY	16
17	SPACE ONLY						1	--			--			--	--	1						SPACE ONLY	18

	PHASE A	PHASE B	PHASE C
Total Load:	1.9 kVA	1.6 kVA	1.5 kVA
	16 A	13 A	13 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
MISCELLANEOUS	5000 VA	100.00%	5000 VA		
				Total Conn. Load:	5000 VA
				Total Est. Demand:	5000 VA
				Total Conn.:	14 A
				Total Est. Demand:	14 A

Notes:

Panelboard: NLP

NEW SECTION 1

Location: ELECTRICAL 117 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10kA
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: 1

CIR	DESCRIPTION	NOTE	GND	SIZE	#	C	P	AMP	A	B	C	A	B	C	AMP	P	C	#	SIZE	GND	NOTE	DESCRIPTION	CIR
1	REC - PATIO 140A, TLT 141		10	10	2	3/4	1	20	0.9			1.2			20	1	3/4	2	10	10		REC - BDRM 122, BATH 122A	2
3	REC - DEN 140		10	10	2	3/4	1	20		1.0			0.7		20	1	3/4	2	12	12		REC, FAN - DINING PATIO 103A	4
5	REC - BDRM 139, BATH 139A		10	10	2	3/4	1	20			1.2			0.6	20	1	3/4	2	12	12		REC - DINING 103	6
7	REC - BDRM 138, BATH 138A		10	10	2	3/4	1	20	1.2			1.0			20	1	3/4	2	10	10		REC - REF. - DINING 103	8
9	REC - BDRM 137, BATH 137A		10	10	2	3/4	1	20		1.2			1.0		20	1	3/4	2	10	10		REC - REF. - DINING 103	10
11	REC - BDRM 136, BATH 136A		12	12	2	3/4	1	20			1.2			1.0	20	1	3/4	2	10	10		REC - LIVING ROOM 102	12
13	REC - BDRM 135, BATH 135A		12	12	2	3/4	1	20	1.2			1.0			20	1	3/4	2	10	10		REC - LVG RM 102, CORR 101	14
15	REC - LIFT - BDRM 135 TO 139		10	10	2	3/4	1	20		1.0			0.4		20	1	3/4	2	12	12	1	REC - KITCHEN 104	16
17	REC - PATIO 129A, CORR 129		12	12	2	3/4	1	20			1.0			1.3	20	3	3/4	3	12	12		REC - DRYER - LAUNDRY 111	18
19	REC - BARIA 131, BATH 131A		12	12	2	3/4	1	20	1.2			1.3			--	--						--	20
21	REC - OFFICE 120		12	12	2	3/4	1	20		1.0			1.3		--	--						--	22
23	REC - SPECIAL STORAGE 128		12	12	2	3/4	1	20			0.8			1.5	20	1	3/4	2	12	12		REC - WASHER - LNDRY 111	24
25	REC - BARIA 130, BATH 130A		12	12	2	3/4	1	20	1.2			1.2			20	1	3/4	2	10	10		REC - RMS 109, 110, 111, 113	26
27	REC - LIFT - BARIA 130 & 131		12	12	2	3/4	1	20		0.4			0.8		20	1	3/4	2	12	12		REC - EQUIP 112, STAFF 114	28
29	REC - BATHING 127		12	12	2	3/4	1	20			1.2			0.8	20	1	3/4	2	12	12		REC - CLEAN LINEN 115	30
31	REC - BATHTUB	1	12	12	2	3/4	1	20	1.1			1.2			20	1	3/4	2	10	10		REC - CORRS 121, 129, 134	32
33	REC - LIFT - BDRM 122 TO 126		10	10	2	3/4	1	20		1.0			0.6		20	1	3/4	2	12	12		REC - WORK ROOM 119	34
35	REC - BDRM 126, BATH 126A		12	12	2	3/4	1	20			1.2			1.2	20	1	3/4	2	12	12		REC - WRK STN - WRK RM 119	36
37	REC - BDRM 125, BATH 125A		12	12	2	3/4	1	20	1.2			0.6			20	1	3/4	2	12	12		REC - WORK ROOM 119	38
39	REC - BDRM 124, BATH 124A		10	10	2	3/4	1	20		1.2			0.0		20	1						SPARE	40
41	REC - MECH RM		12	12	2	3/4	1	20			0.6			0.0	20	1						SPARE	42

	PHASE A	PHASE B	PHASE C
Total Load:	23.1 kVA	20.5 kVA	22.0 kVA
	194 A	170 A	185 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Kitchen Equipment - Non-Dwelling Unit	2000 VA	100.00%	2000 VA		
Lighting	8901 VA	125.00%	11126 VA	**Total Conn. Load:**	65519 VA
Other	500 VA	100.00%	500 VA	**Total Est. Demand:**	50005 VA
Receptacle	45477 VA	60.99%	27739 VA	**Total Conn.:**	182 A
Miscellaneous	2049 VA	100.00%	2049 VA	**Total Est. Demand:**	139 A
Receptacle - Equipment	6594 VA	100.00%	6594 VA		

Notes:
1. BREAKER SHALL BE PROVIDED WITH GFCI PROTECTION FOR PERSONNEL.

Panelboard: NLP

NEW SECTION 2

Location: ELECTRICAL 117 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10kA
Supply From: ATS-N | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: 1

CIR	DESCRIPTION	NOTE	G...	SIZE	#	C	P	AMP	A	B	C	A	B	C	AMP	P	C	#	SIZE	G...	NOTE	DESCRIPTION	CIR
43	LTG - BASEMENT		12	12	2	3/4	1	20	0.2			0.2			20	1	3/4	2	12	12		CARD READER - CONN 100	44
45	LTG - VESTIBULE, CORR 134	2	12	12	2	3/4	1	20		0.9			0.8		20	1	3/4	2	12	12		PATIENT WIFI PANEL - OIT 108	46
47	LTG - BEDRM 135-139		12	12	2	3/4	1	20			1.0			0.8	20	1	3/4	2	10	10		REC - KITCHEN 104	48
49	LTG - DINING 103, PATIO 103A	2	12	12	2	3/4	1	20	0.3			0.4			20	1	3/4	2	10	10		REC - KITCHEN 104	50
51	LTG - EXTERIOR - FIRST...		12	12	2	3/4	1	20		0.6			0.4		20	1	3/4	2	10	10		LTG - BOLLARD EXTERIOR	52
53	LTG - BARIATRIC ROOMS		12	12	2	3/4	1	20			0.8			0.0	15	1						SPARE	54
55	LTG - BATHING, BEDRM...		12	12	2	3/4	1	20	1.3			0.0			15	1						SPARE	56
57	LTG - CORR 121,129	2	12	12	2	3/4	1	20		0.9			0.0		15	1						SPARE	58
59	LTG - STAFF 104-119		12	12	2	3/4	1	20			0.8			0.0	15	1						SPARE	60
61	REC - ELECTRICAL 117, 118		12	12	2	3/4	1	20	0.4			0.0			15	1						SPARE	62
63	REC - WATER COOLER		10	10	2	3/4	1	20		0.6			0.0		20	1						SPARE	64
65	REC - BDRM 123, BATH 123A		12	12	2	3/4	1	20			1.2			0.0	20	1						SPARE	66
67	REC - LIFT - RMS 122 TO 127		10	10	2	3/4	1	20	1.2			0.0			20	1						SPARE	68
69	REC - LIFT - RMS 135 TO 139		12	12	2	3/4	1	20		1.0			0.0		20	1						SPARE	70
71	REC - EXTERIOR		10	10	2	3/4	1	20			1.0			0.0	20	1						SPARE	72
73	PANELBOARD IT-B	1					3	100	3.1			0.0			20	1						SPARE	74
75	--						--	--		2.3			0.0		20	1						SPARE	76
77	--						--	--			2.3			0.0	20	1						SPARE	78
79	LTG - EXTERIOR - FIRST...		10	10	2	3/4	1	20	0.4			0.0			20	1						SPARE	80
81	LTG - LVG RM 102, CORR 101	2	10	10	2	3/4	1	20		1.2			0.0		20	1						SPARE	82
83	LTG - RELAY PANEL - RM 119		12	12	2	3/4	1	20			0.5			0.0	20	1						SPARE	84

	PHASE A	PHASE B	PHASE C
Total Load:	7.5 kVA	8.8 kVA	8.4 kVA
	63 A	75 A	71 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	8901 VA	125.00%	11126 VA		
Other	500 VA	100.00%	500 VA	**Total Conn. Load:**	24766 VA
Receptacle	13717 VA	86.45%	11859 VA	**Total Est. Demand:**	25132 VA
Miscellaneous	1649 VA	100.00%	1649 VA	**Total Conn.:**	69 A
				Total Est. Demand:	70 A

Notes:
1. REFER TO RISER DIAGRAM FOR FEEDER SIZE.
2. RUN LIGHTING CIRCUIT THROUGH LIGHTING RELAY PANEL FOR AUTOMATIC SCHEDULED CONTROL OF LUMINAIRES.

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--	EQLP SECT 1	EQLP SECT 2
--	NLP SECT 1	NLP SECT 2

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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CHARLOTTE, NC 28212

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GEORGIA PE001572010 No. PE052010 PROFESSIONAL ENGINEER Nicholas Espositio

Nicholas Espositio
Digitally signed by Nicholas Espositio
Date: 2024.12.18 11:57:15-05'00'

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - PANELBOARD SCHEDULES

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | **Checked:** NGE | **Drawn:** NMG

Project Number: 508-349

Building Number:

Drawing Number: E009

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC/4792 - CE Central Model.rvt

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VA FORM 08 - 6231

1 ELECTRICAL - SITE PLAN - DEMOLITION
1" = 20'-0"

SITE PLAN GENERAL NOTES

A. THE DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED IS INTENDED FOR REFERENCE PURPOSES ONLY.

B. COORDINATE ALL EXTERIOR AND SITE RELATED WORK WITH THE CIVIL ENGINEERING DRAWINGS. AVOID CONFLICTS WITH OTHER UTILITY SYSTEMS AND SITE CONDITIONS.

C. ALL UNDERGROUND CONDUITS SHALL HAVE CODE REQUIRED COVER. VERIFY EXACT ROUTINGS IN THE FIELD AND MAKE ADJUSTMENTS AS NEEDED. REFER TO UNDERGROUND CONDUIT DETAILS FOR ADDITIONAL INFORMATION.

NEW WORK KEYED NOTES

1 EXISTING POLE MOUTED LUMINAIRE AND POLE SHALL BE REMOVED. REMOVE CIRCUIT BACK TO A NEW OUTDOOR HAND HOLE TO PREPARE FOR RE-ROUTING AND EXTENSION.

2 EXISTING POLE MOUTED LUMINAIRE AND POLE SHALL BE REMOVED AND RELOCATED AS SHOWN IN NEW WORK PLAN. REMOVE RACEWAY BACK TO THE EDGE OF THE AREA OF DEMOLITION. SAFELY STORE LUMINAIRE AND POLE UNTIL TIME OF RE-INSTALLATION AND PROTECT EQUIPMENT THROUGHOUT DEMOLITION AND NEW WORK.

3 APPROXIMATE UNDERGROUND ROUTING OF EXISTING DIRECT BURIED PRIMARY ELECTRIC FEED. EXISTING FEEDER SHALL BE REWORKED AND RE-ROUTED IN NEW DUCTBANK, BETWEEN THE EXISTING UTILITY TRANSFORMER AND THE NEW PROPOSED UTILITY CABINET BY POWER COMPANY. ENTIRE CONDUIT RUN BETWEEN EQUIPMENT SHALL BE DEMOLISHED AND EXISTING CONDUCTORS SHALL BE INTERCEPTED FOR RE-ROUTING. REFER TO ELECTRICAL SITE PLAN SHEET ES100 FOR ADDITIONAL INFORMATION.

TRUE NORTH

GRAPHIC SCALE
20 0 10 20 40 80
(in Feet)
1 inch = 20 ft.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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GEORGIA REGISTERED No. PE052010 PROFESSIONAL ENGINEER NICHOLAS G. ESPOSITO

Nicholas Esposito

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - SITE PLAN - DEMOLITION

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: NGE | Drawn: NMG

Project Number: 508-349

Building Number:

Drawing Number: ED100

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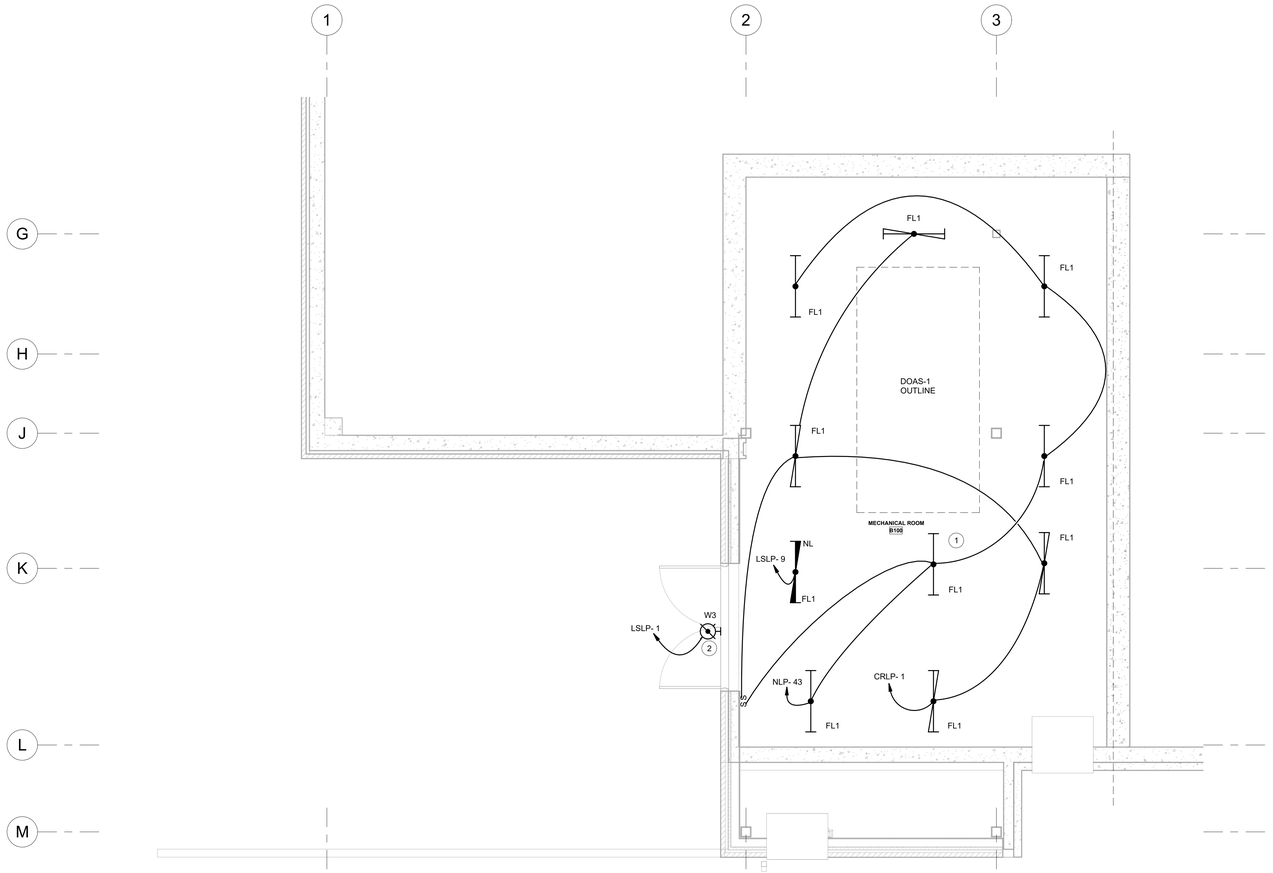


1 ELECTRICAL - BASEMENT FLOOR - LIGHTING PLAN
1/4" = 1'-0"

NEW WORK GENERAL NOTES

A. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF ALL CEILING FIXTURES.

B. THE DRAWINGS SHALL NOTE BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED IS INTENDED FOR REFERENCE PURPOSES ONLY.

C. CONSTRUCTION DEBRIS SHALL BE REMOVED DAILY.

D. COORDINATE LUMINAIRE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO INSTALLATION.

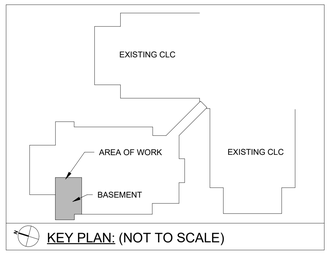
E. CONNECT ALL EMERGENCY EGRESS LUMINARIES AND EXIT SIGNS AHEAD OF ANY LOCAL SWITCHING AND/OR DIMMERS.

F. REFER TO SHEET E001 FOR SYMBOLS LEGEND.

NEW WORK KEYED NOTES

1. COORDINATE EXACT LOCATION OF LUMINAIRES WITH MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING TO PROVIDE ADEQUATE LIGHTING TO SERVICE AND MAINTAIN EQUIPMENT.

2. LUMINAIRE SHALL BE ROUTED THROUGH LIGHTING RELAY PANEL. REFER TO THE LIGHTING RELAY PANEL DETAIL ON SHEET E003.



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE

4 0 2 4 8 16

(in Feet)

1 inch = 4 ft.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

GUIDON / CHARLOTTE ENGINEERS

ARCHITECT, STRUCTURAL ENGINEER
GUIDON DESIGN, INC.
1221 N. PENNSYLVANIA STREET
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FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
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5838 MONROE ROAD
CHARLOTTE, NC 28212

STAMP

GEORGIA REGISTERED No. PE052010 PROFESSIONAL ENGINEER NICHOLAS M. ESPOSITO

Nicholas Esposito

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Approved:

Drawing Title	ELECTRICAL - BASEMENT FLOOR - LIGHTING PLAN
Phase	BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	CONSTRUCT TDVV CLC 12 BEDS
Location	180 MARTIN DR, CARROLLTON, GA 30117
Issue Date	12/16/2024
Checked	NGE
Drawn	NMG
Project Number	508-349
Building Number	
Drawing Number	EL100

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC\4792 - CE Central Model.rvt

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VA FORM 08 - 6231

NEW WORK GENERAL NOTES

A. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF ALL CEILING FIXTURES.

B. THE DRAWINGS SHALL NOTE BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED IS INTENDED FOR REFERENCE PURPOSES ONLY.

C. CONSTRUCTION DEBRIS SHALL BE REMOVED DAILY.

D. COORDINATE LUMINAIRE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO INSTALLATION.

E. CONNECT ALL EMERGENCY EGRESS LUMINARIES AND EXIT SIGNS AHEAD OF ANY LOCAL SWITCHING AND/OR DIMMERS.

F. REFER TO SHEET E001 FOR SYMBOLS LEGEND.

NEW WORK KEYED NOTES

1. UNSWITCHED LIFE SAFETY BRANCH CIRCUITS FROM PANELBOARD LSLP SHALL BE USED FOR EXIT SIGNS AND EMERGENCY EGRESS LUMINAIRES. ALTERNATING BRANCH CIRCUITS 3 AND 5 SHALL BE USED FOR EMERGENCY EGRESS LUMINAIRES. DEDICATED BRANCH CIRCUIT 7 SHALL BE USED FOR EXIT SIGNS.
2. CORRIDOR LUMINAIRES SHALL BE CONTROLLED FROM SWITCHES LOCATED IN WORK ROOM 119.
3. CENTER THE L48 TYPE LUMINAIRE ON THE WALL OVER THE PATIENT BED. LOCATE DIMMER SWITCHES AT THE EDGE OF THE BED.
4. BRANCH CIRCUIT FEEDING LUMINAIRE SHALL BE ROUTED THROUGH LIGHTING RELAY PANEL. REFER TO THE LIGHTING CONTROLS LIGHTING RELAY PANEL DETAIL ON SHEET E003.
5. PROVIDE 8-RELAY, 120V, PROGRAMMABLE, LIGHTING RELAY PANEL WITH SURFACE MOUNTED ENCLOSURE, DOOR SCREW COVER AND DIMMABLE OUTPUT. INSTALL MANUAL OVERRIDE DIMMING SWITCH IN AN APPROVED LOCATION DIRECTED BY THE VA CONTRACTING OFFICER'S REPRESENTATIVE. SET LIGHTING RELAY ON/OFF/DIMMING SCHEDULE ACCORDING TO THE VA CONTRACTING OFFICER'S REPRESENTATIVE SPECIFICATIONS.
6. RUN LIGHTING CIRCUIT THROUGH LIGHTING RELAY PANEL FOR AUTOMATIC SCHEDULED CONTROL OF LUMINAIRES. LIGHTING CONTROL OVERRIDE SHALL BE BY A REMOTE MOUNTED DIMMING SWITCH. REFER TO KEYED NOTE #5 FOR ADDITIONAL INFORMATION.

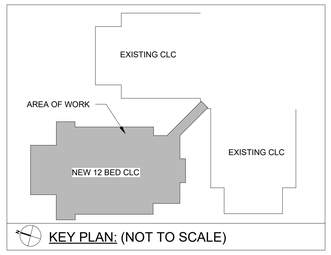
ALTERNATE NOTE:

C ELIMINATE CLERESTORY AREAS: BATHING 127, AND VESTIBULE 132. LUMINAIRES SHALL BE INSTALLED AT 9'-0" ABOVE FINISH FLOOR".

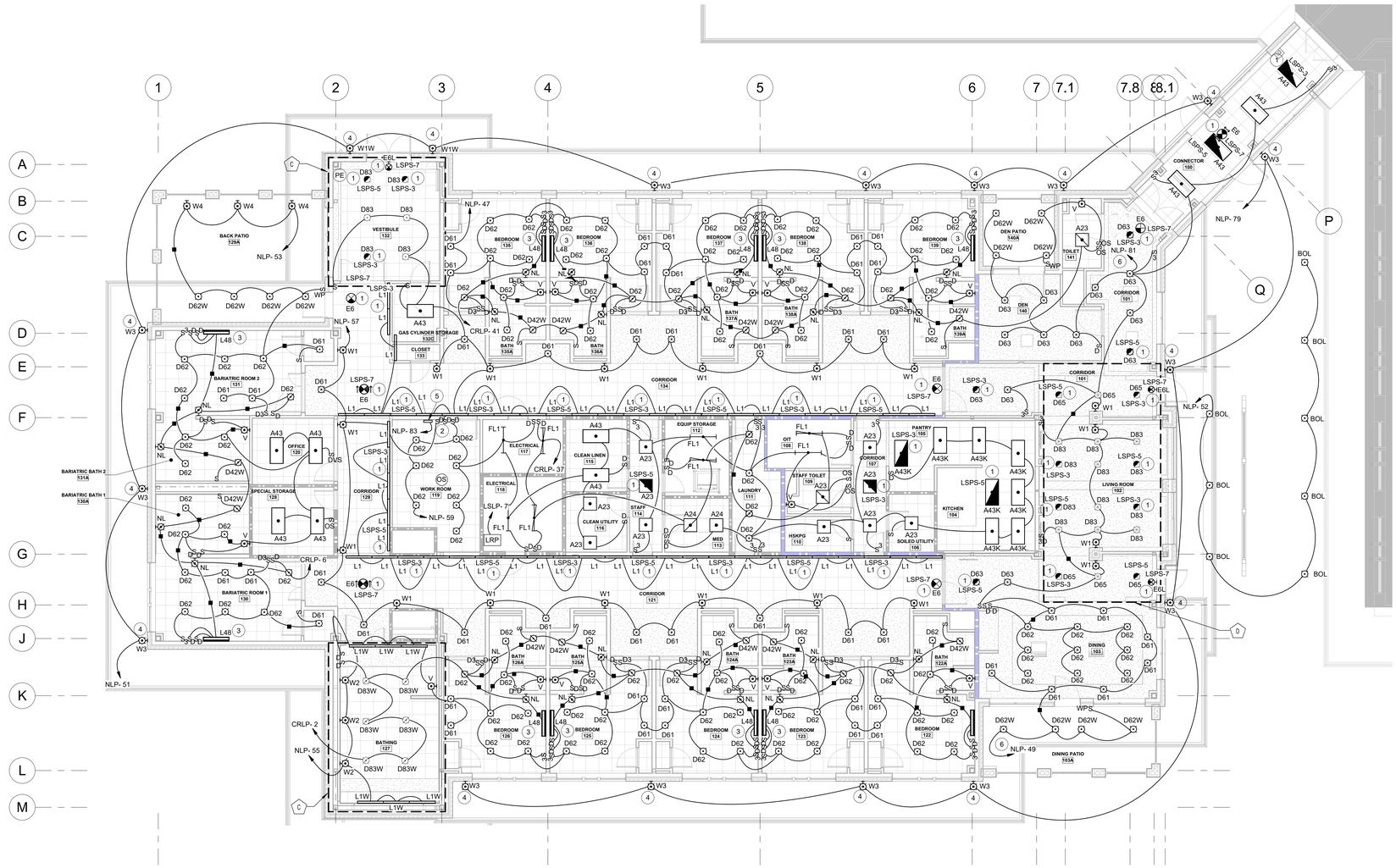
D ELIMINATE CLERESTORY AREA: LIVING ROON 102. LUMINAIRES SHALL BE INSTALLED AT 9'-0" ABOVE FINISH FLOOR.

WALL RATING LEGEND

- 2 HR FIRE RATED
- 1 HR FIRE RATED
- 1 HR SMOKE BARRIER
- SMOKE PARTITION



KEY PLAN: (NOT TO SCALE)



1 ELECTRICAL - FIRST FLOOR - LIGHTING PLAN
1/8" = 1'-0"

GRAPHIC SCALE
8 0 4 8 16 32
(in Feet)
1 inch = 8 ft.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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INDIANAPOLIS, IN 46202

FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL ENGINEER
CHARLOTTE ENGINEERS
5838 MONROE ROAD
CHARLOTTE, NC 28212

STAMP

GEORGIA REGISTERED No. PE052010 PROFESSIONAL ENGINEER
Nicholas Esposito
Digitally signed by Nicholas Esposito
Date: 2024.12.16 11:29:32 -05'00'

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - FIRST FLOOR - LIGHTING PLAN

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: NGE | Drawn: NMG

Project Number: 508-349

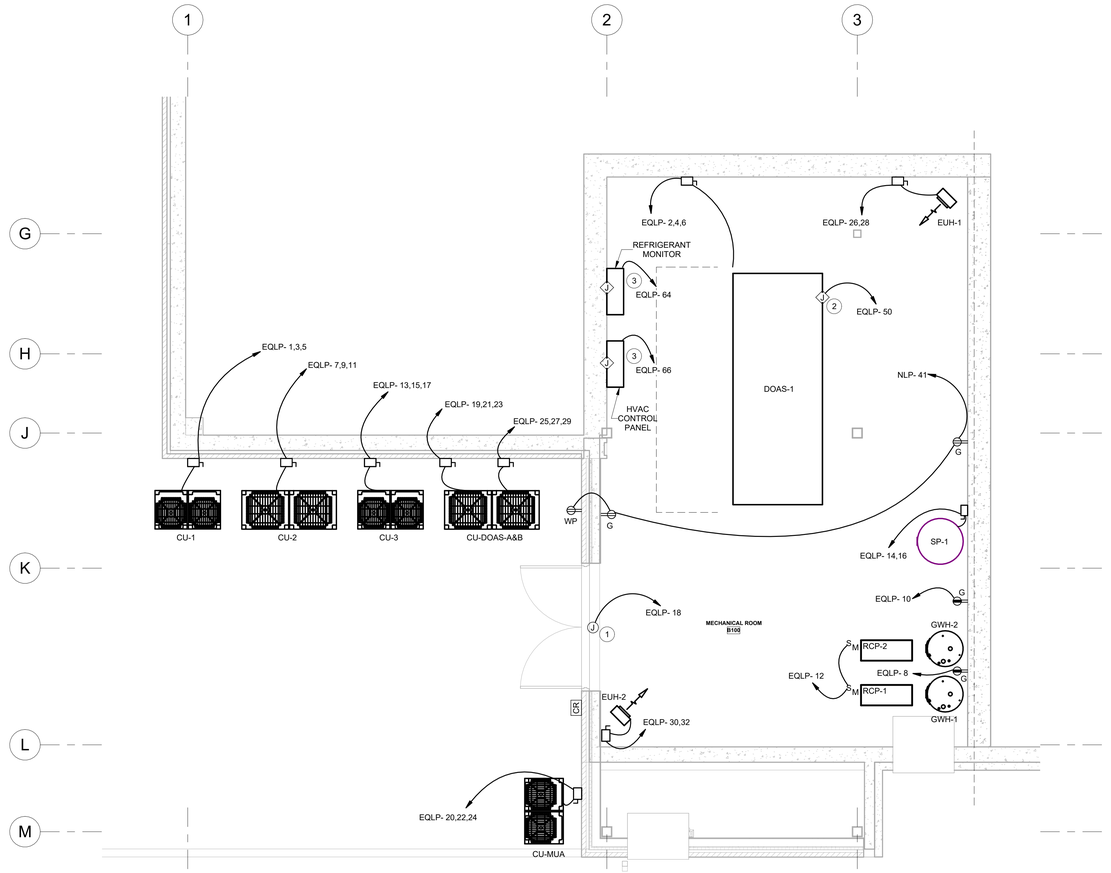
Building Number:

Drawing Number: EL110

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC/4792 - CE Central Model.rvt

12/16/2024 9:46:37 AM

VA FORM 08 - 6231



1 ELECTRICAL - BASEMENT FLOOR - POWER PLAN
1/4" = 1'-0"

EQUIPMENT SCHEDULE

TAG	MCA	MOCP	VOLTAGE	PHASE	RLA	HP	WATTS	DISCONNECTING MEANS				
								TYPE	SIZE	POLES	NEMA	PROVIDE BY
CU-1	36.5	40.0	208V	3	21.1	--	--	NON-FUSED DISCONNECT	60A	3	3R	EC
CU-2	54.9	60.0	208V	3	32.5	--	--	NON-FUSED DISCONNECT	60A	3	3R	EC
CU-3	47.8	50.0	208V	3	25.8	--	--	NON-FUSED DISCONNECT	60A	3	3R	EC
CU-DOAS-A	38.1	45.0	208V	3	23.3	--	--	NON-FUSED DISCONNECT	60A	3	3R	EC
CU-DOAS-B	38.1	45.0	208V	3	23.3	--	--	NON-FUSED DISCONNECT	60A	3	3R	EC
CU-MUA	29.1	35.0	208V	3	--	--	--	NON-FUSED DISCONNECT	60A	3	3R	EC
DOAS-1	37	45	208V	3	34.7	--	--	NON-FUSED DISCONNECT	60A	3	1	EC
EUH-1	--	--	208V	1	--	1/40	5,000	NON-FUSED DISCONNECT	30A	2	1	MC
EUH-2	--	--	208V	1	--	1/40	5,000	NON-FUSED DISCONNECT	30A	2	1	MC
SP-1	18.6	20.0	208V	1	14.9	--	--	NON-FUSED DISCONNECT	30A	2	1	FAC
NG-1	3.5	15	120V	1	1	--	--	EQUIPMENT CTRL PANEL	--	--	--	EC
RCP-1	1	15	120V	1	--	1/6	--	MOTOR RATED SWITCH	--	--	--	EC
RCP-2	1	15	120V	1	--	1/6	1/6	MOTOR RATED SWITCH	--	--	--	EC
GWH-1	--	15	120V	1	--	--	--	GFCI RECEPTACLE	--	--	--	EC
GWH-2	--	15	120V	1	--	--	--	GFCI RECEPTACLE	--	--	--	EC

FAC = FIRE ALARM CONTRACTOR.
EC = ELECTRICAL CONTRACTOR.
MC = MECHANICAL CONTRACTOR.

NEW WORK GENERAL NOTES

A. THE DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED IS INTENDED FOR GENERAL REFERENCE ONLY.

B. CONSTRUCTION DEBRIS SHALL BE REMOVED DAILY.

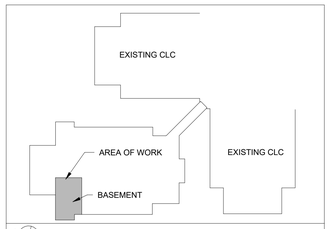
C. COORDINATE LOCATIONS OF HVAC AND/OR PLUMBING EQUIPMENT WITH INSTALLER PRIOR TO EACH ROUGH-IN. MAKE ALL FINAL CONNECTIONS.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE CONNECTIONS TO EACH SMOKE DAMPER AND FIRE/SMOKE DAMPER TO PERMIT PROPER OPERATION OF THE DAMPERS. COORDINATE LOCATIONS WITH MECHANICAL CONTRACTOR, PRIOR TO ROUGH-IN.

E. COORDINATE RECEPTACLE LOCATIONS AND HEIGHT ABOVE FLOOR WITH ARCHITECTURAL DRAWINGS.

NEW WORK KEYED NOTES

1. PROVIDE JUNCTION BOX 120V POWER CONNECTION TO ACCESS CONTROL TRANSFORMER. COORDINATE ACCESS CONTROLS REQUIREMENTS WITH DOOR HARDWARE VENDOR. REFER TO CARD READER ACCESS WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
2. PROVIDE JUNCTION BOX FOR MECHANICAL EQUIPMENT CONTROLS. PROVIDE 120V POWER FOR MECHANICAL EQUIPMENT CONTROLS AND MAKE FINAL CONNECTIONS AS REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
3. PROVIDE JUNCTION BOX FOR HVAC CONTROLS SYSTEM PANEL. PROVIDE 120V POWER FOR SYSTEM PANEL AND MAKE FINAL CONNECTIONS AS REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE
4 0 2 4 8 16
(in Feet)
1 inch = 4 ft.

Revisions:	Date:

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CHARLOTTE, NC 28212

STAMP

GEORGIA REGISTERED No. PE052010 PROFESSIONAL ENGINEER Nicholas Esposito

Nicholas Esposito, PE, LEED AP BD+C
Charlotte Engineers, PLLC
nicholas@charlotteengineers.com
Date: 2024.12.16 11:59:10-05'00'

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - BASEMENT FLOOR - POWER PLAN

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: NGE | Drawn: NMG

Project Number: 508-349

Building Number:

Drawing Number: EP100

Autodesk Docs://22-9003 - VA Atlanta Trinka Davis CLC\4792 - CE Central Model.rvt

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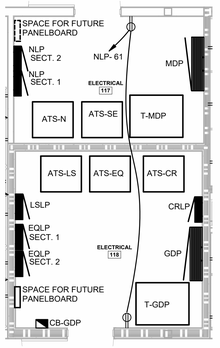
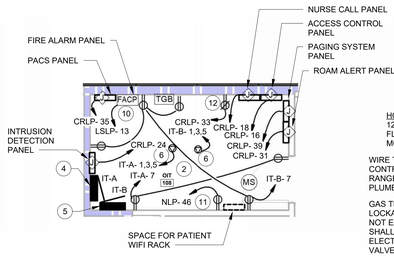
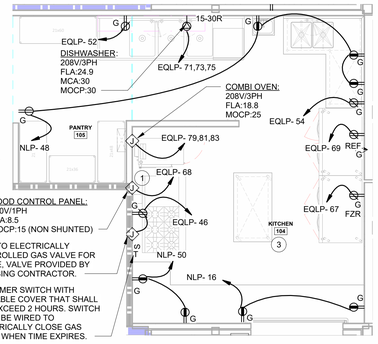


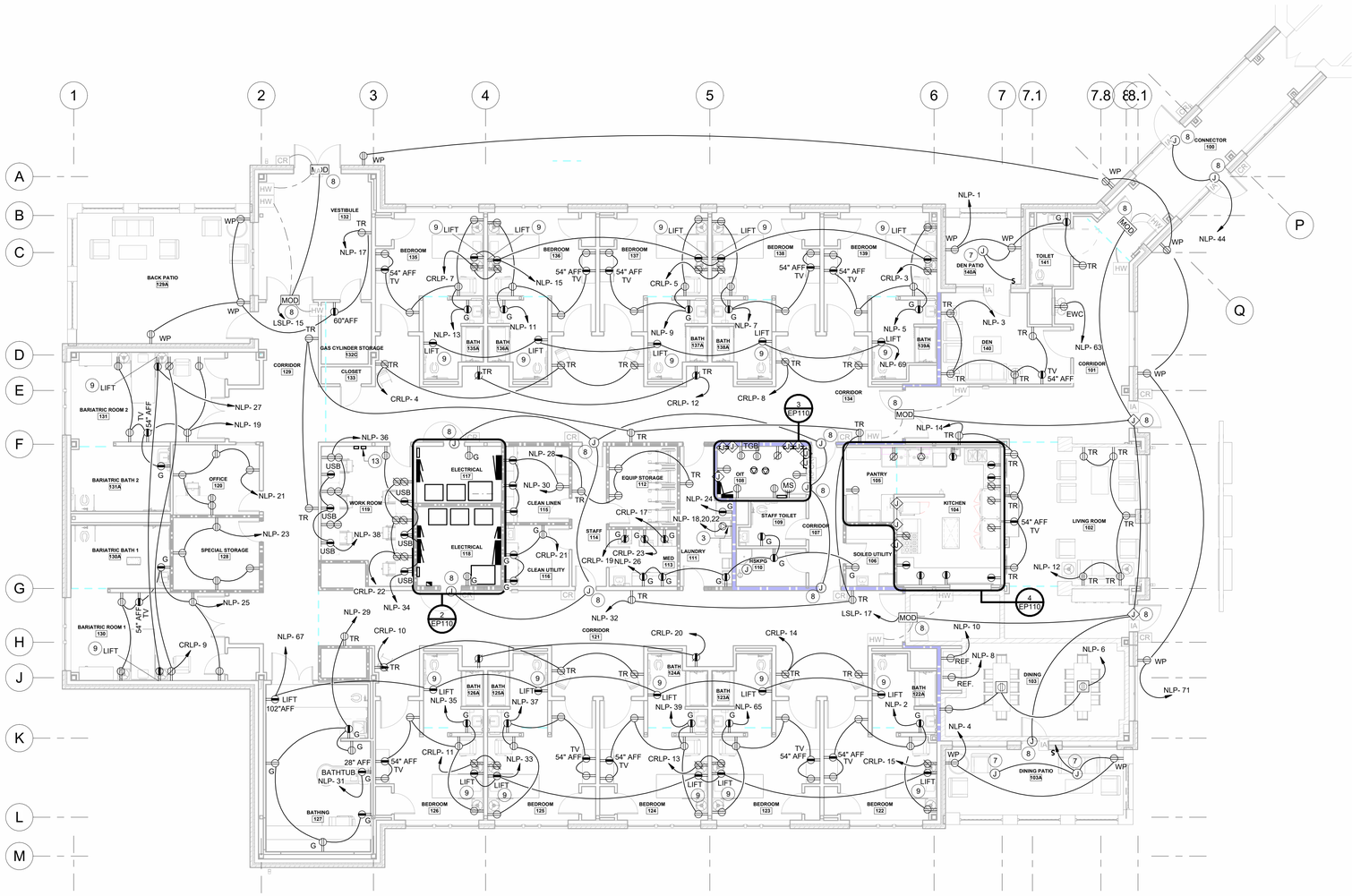
2 ELECTRICAL - LEVEL 01 - POWER - ELECTRICAL ROOM
1/4" = 1'-0"



3 ELECTRICAL - LEVEL 01 - POWER - TELECOMMUNICATIONS ROOM
1/4" = 1'-0"



4 ELECTRICAL - LEVEL 01 - NEW WORK - POWER - KITCHEN
1/4" = 1'-0"



1 ELECTRICAL - FIRST FLOOR - POWER PLAN
1/8" = 1'-0"

NEW WORK GENERAL NOTES

A. THE DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED IS INTENDED FOR GENERAL REFERENCE ONLY.

B. CONSTRUCTION DEBRIS SHALL BE REMOVED DAILY.

C. COORDINATE LOCATIONS OF HVAC AND/OR PLUMBING EQUIPMENT WITH INSTALLER PRIOR TO EACH ROUGH-IN. MAKE ALL FINAL CONNECTIONS.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE CONNECTIONS TO EACH SMOKE DAMPER AND FIRE/SMOKE DAMPER TO PERMIT PROPER OPERATION OF THE DAMPERS. COORDINATE LOCATIONS WITH MECHANICAL CONTRACTOR, PRIOR TO ROUGH-IN.

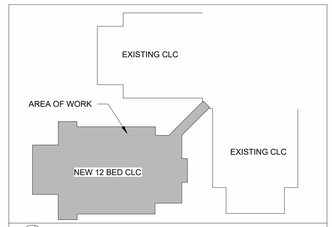
E. COORDINATE RECEPTACLE LOCATIONS AND HEIGHT ABOVE FLOOR WITH ARCHITECTURAL DRAWINGS.

NEW WORK KEYED NOTES

1. PROVIDE JUNCTION BOX FOR HOOD CONTROL PANEL. MAKE ALL CONNECTIONS BETWEEN CONTROL PANEL AND HOOD EQUIPMENT. COORDINATE WITH KITCHEN CONTRACTOR.
2. POWER FOR ALL TELECOMMUNICATIONS EQUIPMENT WITHIN THIS ROOM SHALL BE SUPPLIED FORM THE DEDICATED IT PANELBOARDS AS SHOWN.
3. ALL GFCI RECEPTACLES SHALL BE LOCATED SO THEY WILL BE READILY ACCESSIBLE AFTER THE KITCHEN EQUIPMENT IS INSTALLED. COORDINATE LOCATIONS OF KITCHEN EQUIPMENT WITH THE KITCHEN CONTRACTOR PRIOR TO ROUGH-IN.
4. IT BRANCH PANEL FOR A-SIDE POWER. SHALL BE EQUIPPED WITH POWER METER. COORDINATE FINAL LOCATION WITH VA COR AND TELECOMMUNICATIONS REPRESENTATIVE.
5. EIT BRANCH PANEL FOR B-SIDE POWER. SHALL BE EQUIPPED WITH POWER METER. COORDINATE FINAL LOCATION WITH VA COR AND TELECOMMUNICATIONS REPRESENTATIVE.
6. PROVIDE OVERHEAD POWER DROP CORD WITH 20 AMP 208V THREE-PHASE TWIST LOCK RECEPTACLE (L21-20R): 8.5 FT AFF (WYE (5-WIRE)). COORDINATE ROUGH-IN WITH TELECOMMUNICATIONS CONTRACTOR.
7. PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING FOR OUTDOOR FAN. LOCATE CONTROL SWITCH AT THE DOOR NEXT TO THE LIGHT SWITCH. WALL CONTROL SWITCH FURNISHED BY VENDOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
8. PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING FOR DOOR CONTROLS. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
9. PROVIDE RECEPTACLE 6" BELOW ACCESSIBLE CEILING FOR PATIENT LIFT TRACK. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH-IN.
10. PROVIDE JUNCTION BOX FOR FIRE ALARM PANEL. COORDINATE FINAL REQUIREMENTS WITH FIRE ALARM EQUIPMENT CONTRACTOR PRIOR TO ROUGH-IN.
11. PROVIDE DEDICATED RECEPTACLE FOR PATIENT WIFI PANEL. COORDINATE FINAL ELEVATION WITH WIFI EQUIPMENT CONTRACTOR.
12. PROVIDE DEDICATED RECEPTACLE FOR GETWELL SYSTEM. COORDINATE FINAL ELEVATION WITH GETWELL EQUIPMENT CONTRACTOR.
13. GENERATOR ALARM PANEL. COORDINATE FINAL LOCATION REQUIREMENTS WITH GENERATOR EQUIPMENT CONTRACTOR.

WALL RATING LEGEND

- 2 HR FIRE RATED
- 1 HR FIRE RATED
- 1 HR SMOKE BARRIER
- SMOKE PARTITION



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE
4 0 2 4 8 16
(in Feet)
1 inch = 4 ft.

GRAPHIC SCALE
8 0 4 8 16 32
(in Feet)
1 inch = 8 ft.

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STAMP

GEORGIA REGISTERED No. PE052010 PROFESSIONAL ENGINEER NICHOLAS S. ESPOSITO
Nicholas Esposito
Digitally signed by Nicholas Esposito
Date: 2024.12.16 11:39:46 -05'00'

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - FIRST FLOOR - POWER PLAN

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024

Checked: NGE

Drawn: NMG

Project Number: 508-349

Building Number:

Drawing Number: EP110

Autodesk Docs://22.9003 - VA Atlanta Tinker Davis CLC\4792 - CE Central Model.rvt

12/16/2024 9:48:55 AM

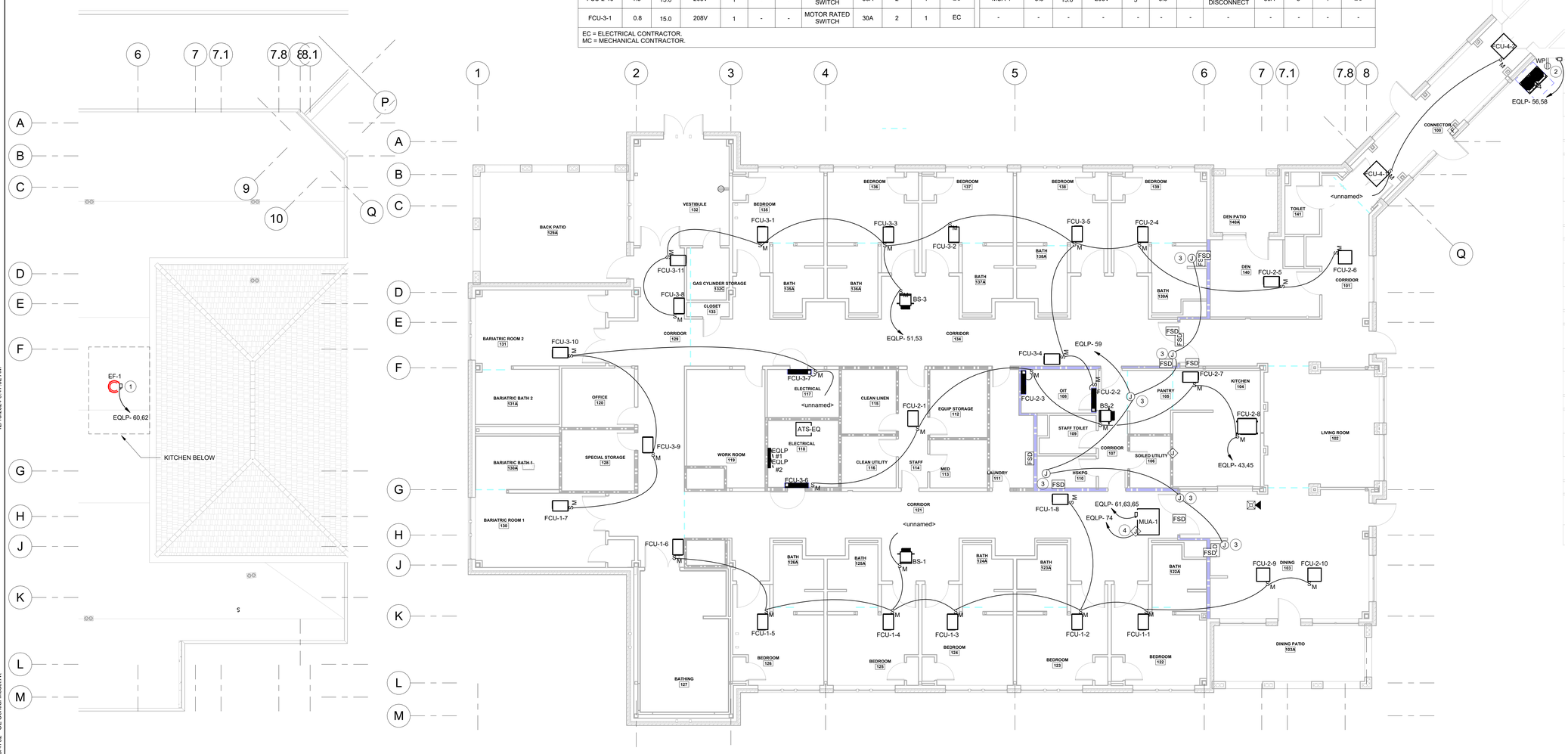
VA FORM 08 - 6231

EQUIPMENT SCHEDULE

TAG	MCA	MOCP	VOLTAGE	PHASE	RLA	HP	DISCONNECTING MEANS				
							TYPE	SIZE	POLES	NEMA	PROVIDED BY
FCU-1-1	0.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-1-2	0.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-1-3	0.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-1-4	0.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-1-5	0.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-1-6	1.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-1-7	1.9	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-1-8	1.4	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-2-1	0.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-2-2	0.4	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-2-3	0.4	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-2-4	0.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-2-5	0.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-2-6	0.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-2-7	0.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-2-8	3.0	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-2-9	1.3	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-2-10	1.3	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-3-1	0.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC

TAG	MCA	MOCP	VOLTAGE	PHASE	RLA	HP	DISCONNECTING MEANS				
							TYPE	SIZE	POLES	NEMA	PROVIDED BY
FCU-3-2	0.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-3-3	0.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-3-4	1.9	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-3-5	0.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-3-6	0.4	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-3-7	0.4	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-3-8	0.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-3-9	0.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-3-10	1.9	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-3-11	0.4	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-4-1	0.5	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
FCU-4-2	0.5	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
BS-1	0.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
BS-2	0.8	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
BS-3	1.0	15.0	208V	1	-	-	MOTOR RATED SWITCH	30A	2	1	EC
CU-4	29.1	35.0	208V	1	19	-	NON-FUSED DISCONNECT	60A	2	3R	EC
EF-1	7.8	20.0	208V	1	6.2	1	NON-FUSED DISCONNECT	30A	1	3R	MC
MUA-1	8.8	15.0	208V	3	8.6	-	NON-FUSED DISCONNECT	30A	3	1	EC
-	-	-	-	-	-	-	-	-	-	-	-

EC = ELECTRICAL CONTRACTOR.
MC = MECHANICAL CONTRACTOR.



3 ELECTRICAL -PARTIAL ROOF PLAN - MECHANICAL CONNECTIONS
1/8" = 1'-0"

1 ELECTRICAL - FIRST FLOOR - MECHANICAL EQUIPMENT CONNECTIONS
1/8" = 1'-0"

NEW WORK GENERAL NOTES

A. THE DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED IS INTENDED FOR GENERAL REFERENCE ONLY.

B. CONSTRUCTION DEBRIS SHALL BE REMOVED DAILY.

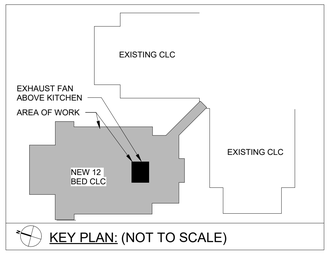
C. COORDINATE LOCATIONS OF HVAC AND/OR PLUMBING EQUIPMENT WITH INSTALLER PRIOR TO EACH ROUGH-IN. MAKE ALL FINAL CONNECTIONS.

NEW WORK KEYED NOTES

1. EXHAUST FAN LOCATED ON THE ROOF. DISCONNECT AND STARTER PROVIDED BY MECHAICAL CONTRACTOR. MAKE ALL FINAL CONNECTIONS.
2. ALL HEATING AIR-CONDITIONING, AND REFRIGERATION EQUIPMENT REQUIRING SERVICING SHALL HAVE AN ACCESSIBLE RECEPTACLE ON THE SAME LEVEL AND WITHIN 25'-0", PER NEC ARTICLE 210.63. PROVIDE A GFCI RECEPTACLE WITH WHILE-IN-USE WEATHERPROOF COVER AND CONNECT TO NEAREST 120V UNSWITCHED OUTLET CIRCUIT SERVING THE AREA WITH 2#12 AND 1#12G IN 3/4"C AS NEEDED.
3. PROVIDE JUNCTION BOX FOR FIRE SMOKE DAMPERS. COORDINATE FINAL CONNECTIONS WITH MECHANCIAL CONTRATOR PRIOR TO ROUGH-IN.
4. PROVIDE JUNCTION BOX FOR MECHANICAL EQUIPMENT CONTROLS. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

WALL RATING LEGEND

- 2 HR FIRE RATED
- 1 HR FIRE RATED
- 1 HR SMOKE BARRIER
- SMOKE PARTITION



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE
8 0 4 8 16 32
(in Feet)
1 inch = 8 ft.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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GEORGIA REGISTERED No. PE052010 PROFESSIONAL ENGINEER NICHOLAS ESPOSITO
Nicholas Esposito
Digitally signed by Nicholas Esposito
Date: 2024.12.16 11:30:25-05'00'

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - FIRST FLOOR - MECHANICAL EQUIPMENT CONNECTIONS

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: NGE | Drawn: NMG

Project Number: 508-349

Building Number:

Drawing Number: EP111

Autodesk Docs://22.9003 - VA Atlanta Tinka Davis CLC/4792 - CE Central Model.rvt
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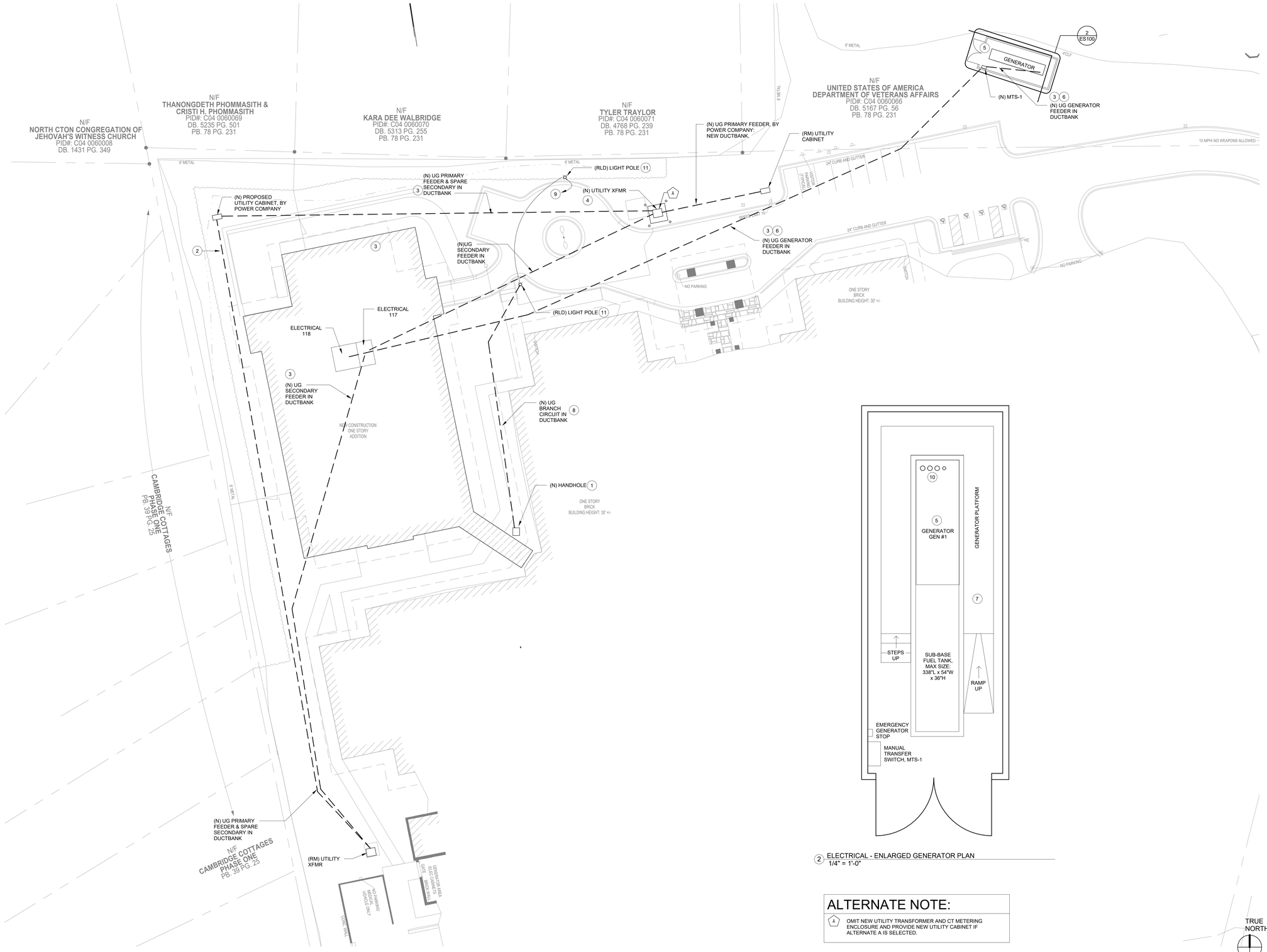
VA FORM 08 - 6231



1 ELECTRICAL - SITE PLAN - NEW WORK
1" = 20'-0"

2 ELECTRICAL - ENLARGED GENERATOR PLAN
1/4" = 1'-0"

SITE PLAN GENERAL NOTES

A. THE DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED IS INTENDED FOR REFERENCE PURPOSES ONLY.

B. COORDINATE ALL EXTERIOR AND SITE RELATED WORK WITH THE CIVIL ENGINEERING DRAWINGS. AVOID CONFLICTS WITH OTHER UTILITY SYSTEMS AND SITE CONDITIONS.

C. ALL UNDERGROUND CONDUITS SHALL HAVE CODE REQUIRED COVER. VERIFY EXACT ROUTINGS IN THE FIELD AND MAKE ADJUSTMENTS AS NEEDED. REFER TO UNDERGROUND CONDUIT DETAILS FOR ADDITIONAL INFORMATION.

D. ENCASE ALL UNDERGROUND DUCTS AND CONDUITS IN CONCRETE. DIRECT BURIAL CONDUIT MAY BE ALLOWED ONLY FOR OUTDOOR LIGHTING AND POWER BRANCH CIRCUITS. REFER TO DETAILS FOR ADDITIONAL INFORMATION.

SITE PLAN KEYED NOTES

1. NEW HANDHOLE FOR BRANCH CIRCUIT SERVING RELOCATED POLE MOUNTED AREA LUMINAIRES. COORDINATE EXACT LOCATION IN THE FIELD WITH COR PRIOR TO INSTALLATION.
2. EXISTING PRIMARY ELECTRIC FEEDERS SHALL BE RE-ROUTED UNDERGROUND IN NEW DUCTBANK, BY POWER COMPANY. NEW ROUTING IS SHORTER THAN EXISTING AND EXCESS CONDUCTOR LENGTH TO BE CUT AS NEEDED.
3. APPROXIMATE ROUTING OF NEW UNDERGROUND FEEDER ENCASED IN CONCRETE. REFER TO POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.
4. PROPOSED LOCATION OF NEW REDUNDANT UTILITY TRANSFORMER, PROVIDED BY POWER COMPANY. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER COMPANY APPROVED CONCRETE PAD AND METER ENCLOSURE, ALONG WITH ALL: EXCAVATION, BACKFILLING, CONDUITS, CONNECTIONS, GROUNDING, ETC., REQUIRED BY DOMINION ENERGY. REFER TO POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.
5. PROPOSED LOCATION OF NEW EXTERIOR GENERATOR ON GRADE WITH SUB-BASE DIESEL FUEL TANK. PROVIDE LEVEL CONCRETE PAD FOR GENERATOR, SEE DETAILS FOR ADDITIONAL INFORMATION. INSTALL GENERATOR MINIMUM 5' FROM ANY BUILDING, 10' FROM ANY BUILDING OPERABLE/FIXED OPENING AND 20' FROM UTILITY TRANSFORMERS. COORDINATE EXACT LOCATION OF GENERATOR AND ORIENTATION WITH OWNER. COORDINATE EXACT LOCATION OF GENERATOR REMOTE ALARM ANNUNCIATOR WITH OWNER. REFER TO POWER RISER DIAGRAM FOR ADDITIONAL INFMATION.
6. PROPOSED ROUTING OF NEW CONCRETE ENCASED UNDERGROUND PATHWAY. PROVIDE (3) 4" & (1) 1" PVC-40 WITH PULL STRINGS AND MANDREL FOR FUTURE GENERATOR SET AND STUB UP RACEWAYS WITHIN RESERVED SPACE. CAP AND LABEL RACEWAYS AT GRADE LEVEL. VERIFY EXACT ROUTING IN THE FIELD. REFER TO DETAILS FOR ADDITIONAL INFORMATION. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
7. APPROXIMATE OUTLINE OF GALVANIZED STEEL PLATFORM, AROUND GENERATOR ENCLOSURE. PROPOSED PLATFORM DIMENSIONS ARE MINIMUM 3' ABOVE GRADE AND 3' WIDE WITH HANDRAILS, STAIRS AND RAMP. PLATFORM SHALL BE CONSTRUCTED TO CORRESPOND WITH & MAXIMIZE GENERATOR ACCESS, AND COMPLY WITH APPLICABLE OSHA REQUIREMENTS. COORDINATE WITH GENERATOR VENDOR AND ADJUST IN THE FIELD AS REQUIRED.
8. PROPOSED ROUTING OF NEW CONCRETE ENCASED UNDERGROUND PATHWAY. PROVIDE (2) 1" PVC-40 WITH PULL STRINGS AND MANDREL FOR EXTERIOR LUMINARIES. VERIFY EXACT ROUTING IN THE FIELD. REFER TO DETAILS FOR ADDITIONAL INFORMATION. COORDINATE LOCATION WITH CONTRACTOR OFFICER REPRESETATIVE PRIOR TO ROUGH-IN.
9. CONNECT TO EXISTING CIRCUIT 30 IN PANELBOARD H1A. LOCATED IN ELECTRICAL ROOM 059 IN THE MAIN BUILDING.
10. PROPOSED LOCATION OF UNDERGROUND CONDUIT STUB UP TO THE NEW GENERATOR. STUB UP LOCATION IS APPROXIMATE AND SHOWN FOR REFERENCE PURPOSES ONLY. VERIFY EXACT LOCATION IN THE FIELD AND MAKE ADJUSTMENTS AS NEEDED TO COINCIDE WITH GENERATOR CONNECTION POINTS. REFER TO POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.
11. NEW LOCATION OF RELOCATED POLE MOUNTED AREA LUMINAIRE AND POLE. PRIOR TO INSTALLATION, CLEAN AND RELAMP LUMINAIRE AND CLEAN POLE.

ALTERNATE NOTE:

A OMIT NEW UTILITY TRANSFORMER AND CT METERING ENCLOSURE AND PROVIDE NEW UTILITY CABINET IF ALTERNATE A IS SELECTED.

GRAPHIC SCALE
4 0 2 4 8 16
(in Feet)
1 inch = 4 ft.

GRAPHIC SCALE
20 0 10 20 40 80
(in Feet)
1 inch = 20 ft.

TRUE NORTH

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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STAMP
GEORGIA REGISTERED No. PE052010 PROFESSIONAL ENGINEER NICHOLAS ESPOSITO
Nicholas Esposito
Digitally signed by Nicholas Esposito
DN: cn=Nicholas Esposito, o=charlotteengineers.com, ou=Nicholas Esposito, email=nesposito@charlotteengineers.com, c=US
Date: 2024.12.16 11:32:01-05'00'

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - SITE PLAN
Approved:
Phase: BID DOCUMENTS
FULLY SPRINKLERED
Project Title: CONSTRUCT TDVV CLC 12 BEDS
Location: 180 MARTIN DR, CARROLLTON, GA 30117
Issue Date: 12/16/2024
Checked: NGE
Drawn: NMG
Project Number: 508-349
Building Number:
Drawing Number: ES100

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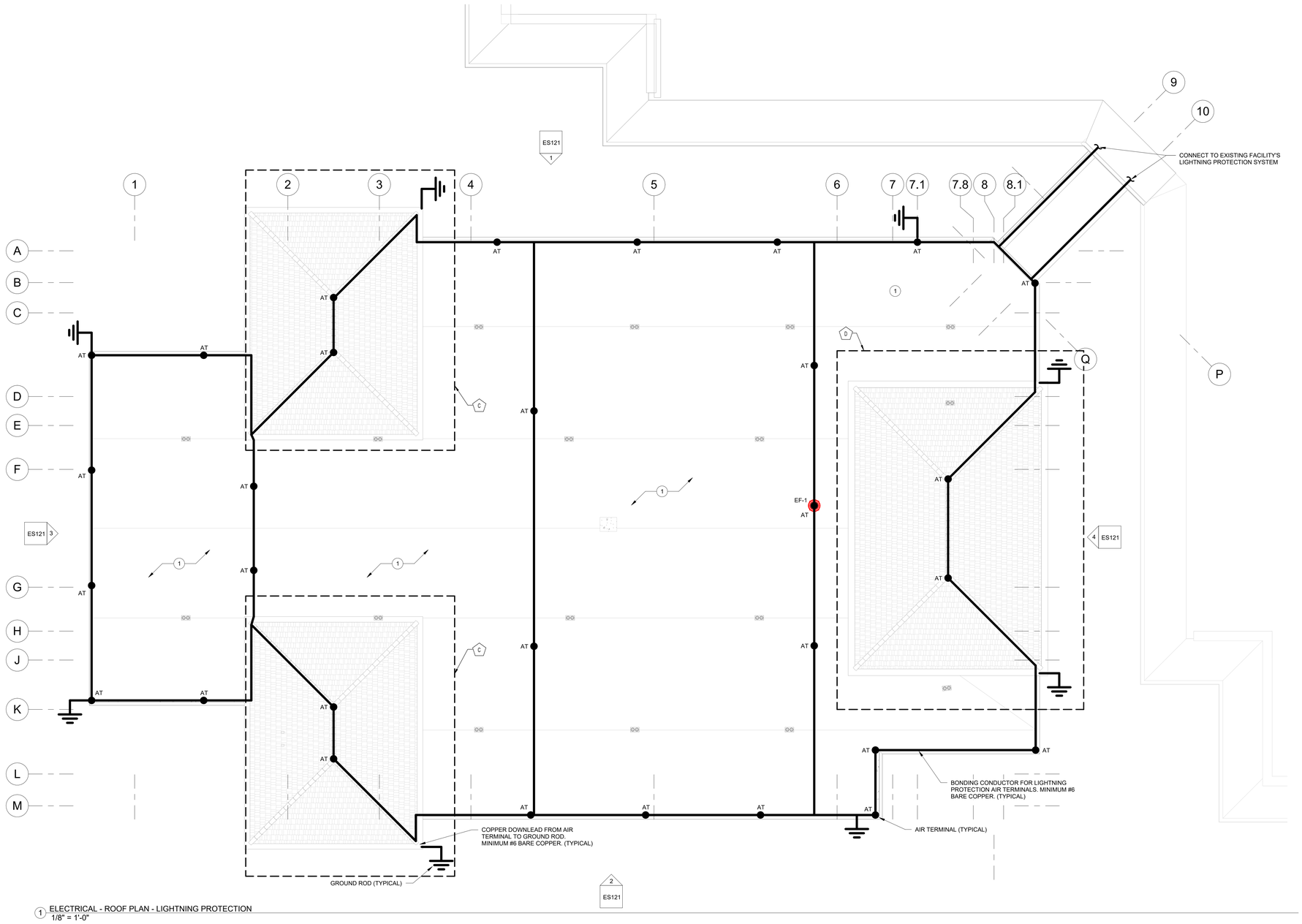


1 ELECTRICAL - ROOF PLAN - LIGHTNING PROTECTION
1/8" = 1'-0"

NEW WORK GENERAL NOTES

A. THE DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED, IS INTENDED FOR REFERENCE PURPOSE ONLY.

B. COPPER SHALL BE OF THE GRADE REQUIRED FOR COMMERCIAL ELECTRICAL WORK AND SHALL BE OF 95 PERCENT CONDUCTIVITY WHEN ANNEALED.

C. PROTECTION SYSTEMS SHALL BE MADE UP OF MATERIALS THAT ARE RESISTANT TO OR PROTECTED AGAINST CORROSION.

D. COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON OR IN CONTACT WITH ALUMINUM ROOFING, ALUMINUM SIDING, OR OTHER ALUMINUM SURFACES.

E. ANY PART OF A LIGHTNING PROTECTION SYSTEM THAT IS SUBJECT TO MECHANICAL DAMAGE OR DISPLACEMENT SHALL BE PROTECTED WITH A PROTECTIVE MOLDING OR COVERING.

F. DOWN CONDUCTORS ENTERING CORROSIVE SOIL SHALL BE PROTECTED AGAINST CORROSION BY A PROTECTIVE COVERING BEGINNING AT A POINT 3 FT (1 M) ABOVE GRADE LEVEL AND EXTENDING FOR THEIR ENTIRE LENGTH BELOW GRADE.

G. UNDERGROUND METALLIC PIPING OR GROUND ROD –TYPE ELECTRODES FOR ELECTRICAL, COMMUNICATIONS, OR OTHER SYSTEMS SHALL NOT BE USED IN LIEU OF LIGHTNING GROUNDING ELECTRODES.

H. THE DOWN CONDUCTOR(S) SHALL BE ATTACHED PERMANENTLY TO THE GROUNDING ELECTRODE SYSTEM BY BOLTING, BRAZING, WELDING, OR HIGH-COMPRESSION CONNECTORS LISTED FOR THE PURPOSE.

I. WHERE PRACTICABLE, GROUNDING ELECTRODES SHALL BE INSTALLED BELOW THE FROST LINE (EXCLUDING SHALLOW TOPSOIL CONDITIONS).

J. CABLE MUST RUN FROM AIR TERMINALS TAKING A HORIZONTAL OR DOWNWARD PATH TO GROUND ROD. IF NECESSARY, CABLE MAY RUN SLIGHTLY UPHILL FROM AIR TERMINALS OR BOND LOCATIONS AT A RATE OF 3" RISE PER 12" OF RUN, REFER TO NFPA 780 PARAGRAPH 3.1.2. FASTEN CABLE EVERY 3'-0" OC MAXIMUM SPACING.

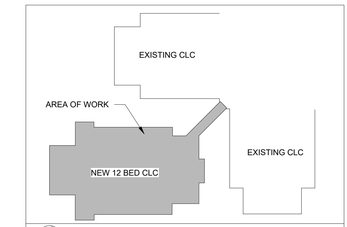
NEW WORK KEYED NOTES

(1) PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 780 AND UL 96 & 96A. LAYOUT SHOWN IS FOR REFERENCE PURPOSES ONLY. EXACT LIGHTNING PROTECTION SYSTEM LAYOUT SHALL BE DETERMINED BY SHOP DRAWINGS BY LIGHTNING PROTECTION VENDOR. COORDINATE WITH LIGHTNING PROTECTION VENDOR AND OTHER TRADES.

ALTERNATE NOTE:

C SEE SHEET ES120A IF ALTERNATE C IS ACCEPTED.

D SEE SHEET ES120A IF ALTERNATE D IS ACCEPTED.



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE

8 0 4 8 16 32

(in Feet)

1 inch = 8 ft.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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STAMP

GEORGIA REGISTERED No. PE052010 PROFESSIONAL ENGINEER

Nicholas Esposito

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - ROOF PLAN - LIGHTNING PROTECTION

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024

Checked: NGE

Drawn: NMG

Project Number: 508-349

Building Number:

Drawing Number: ES120

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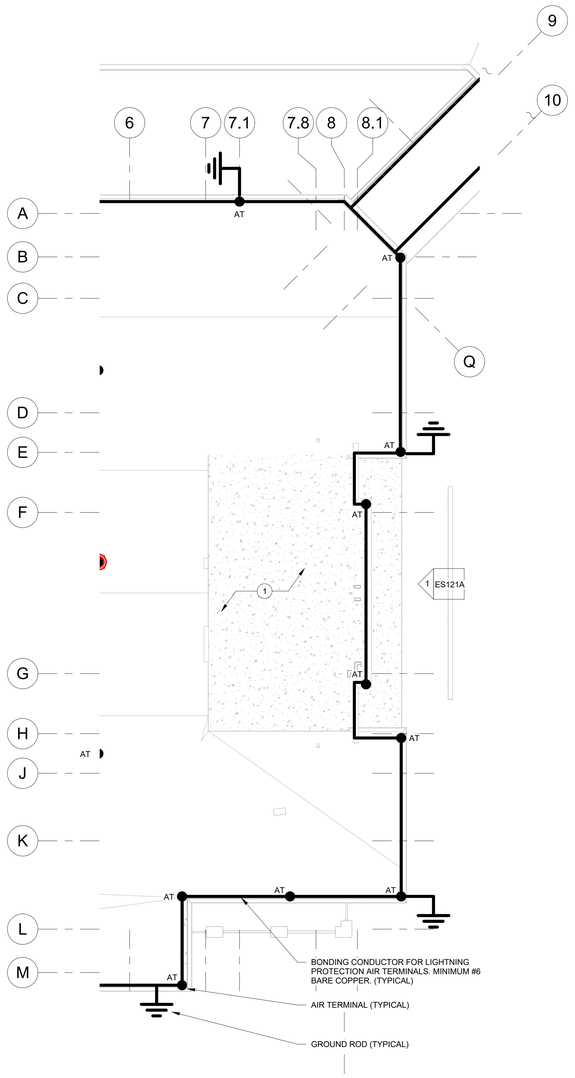
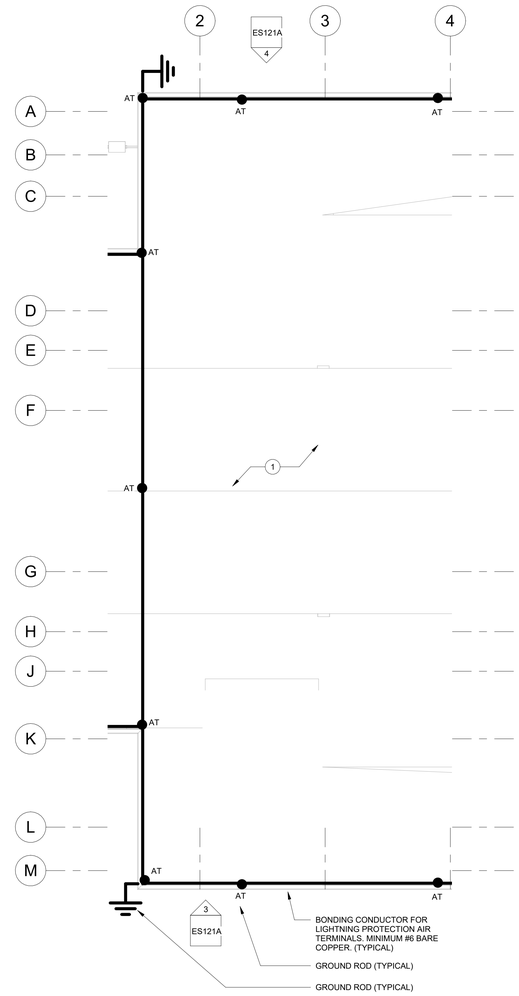


2 ELECTRICAL - PARTIAL ROOF PLAN - ALTERNATE D
1/8" = 1'-0"



1 ELECTRICAL - PARTIAL ROOF PLAN - ALTERNATE C
1/8" = 1'-0"

NEW WORK GENERAL NOTES

A. THE DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED, IS INTENDED FOR REFERENCE PURPOSE ONLY.

B. COPPER SHALL BE OF THE GRADE REQUIRED FOR COMMERCIAL ELECTRICAL WORK AND SHALL BE OF 95 PERCENT CONDUCTIVITY WHEN ANNEALED.

C. PROTECTION SYSTEMS SHALL BE MADE UP OF MATERIALS THAT ARE RESISTANT TO OR PROTECTED AGAINST CORROSION.

D. COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON OR IN CONTACT WITH ALUMINUM ROOFING, ALUMINUM SIDING, OR OTHER ALUMINUM SURFACES.

E. ANY PART OF A LIGHTNING PROTECTION SYSTEM THAT IS SUBJECT TO MECHANICAL DAMAGE OR DISPLACEMENT SHALL BE PROTECTED WITH A PROTECTIVE MOLDING OR COVERING.

F. DOWN CONDUCTORS ENTERING CORROSIVE SOIL SHALL BE PROTECTED AGAINST CORROSION BY A PROTECTIVE COVERING BEGINNING AT A POINT 3 FT (1 M) ABOVE GRADE LEVEL AND EXTENDING FOR THEIR ENTIRE LENGTH BELOW GRADE.

G. UNDERGROUND METALLIC PIPING OR GROUND ROD–TYPE ELECTRODES FOR ELECTRICAL, COMMUNICATIONS, OR OTHER SYSTEMS SHALL NOT BE USED IN LIEU OF LIGHTNING GROUNDING ELECTRODES.

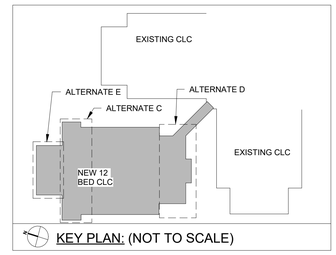
H. THE DOWN CONDUCTOR(S) SHALL BE ATTACHED PERMANENTLY TO THE GROUNDING ELECTRODE SYSTEM BY BOLTING, BRAZING, WELDING, OR HIGH-COMPRESSION CONNECTORS LISTED FOR THE PURPOSE.

I. WHERE PRACTICABLE, GROUNDING ELECTRODES SHALL BE INSTALLED BELOW THE FROST LINE (EXCLUDING SHALLOW TOPSOIL CONDITIONS).

J. CABLE MUST RUN FROM AIR TERMINALS TAKING A HORIZONTAL OR DOWNWARD PATH TO GROUND ROD. IF NECESSARY, CABLE MAY RUN SLIGHTLY UPHILL FROM AIR TERMINALS OR BOND LOCATIONS AT A RATE OF 3" RISE PER 12" OF RUN, REFER TO NFPA 780 PARAGRAPH 3.1.2. FASTEN CABLE EVERY 3'-0" OC MAXIMUM SPACING.

NEW WORK KEYED NOTES

1 PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 780 AND UL 96 & 96A. LAYOUT SHOWN IS FOR REFERENCE PURPOSES ONLY. EXACT LIGHTNING PROTECTION SYSTEM LAYOUT SHALL BE DETERMINED BY SHOP DRAWINGS BY LIGHTNING PROTECTION VENDOR. COORDINATE WITH LIGHTNING PROTECTION VENDOR AND OTHER TRADES.



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE

8 0 4 8 16 32

(in Feet)

1 inch = 8 ft.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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GEORGIA REGISTERED No. PE052010 PROFESSIONAL ENGINEER Nicholas Esposito

Nicholas Esposito
nicholas.esposito@charlotteengineers.com, Nicholas Esposito
Date: 2024.12.16 11:31:33-05'00'

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - ALTERNATE ROOF PLANS - LIGHTNING PROTECTION

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024

Checked: NGE

Drawn: NMG

Project Number: 508-349

Building Number:

Drawing Number: ES120A

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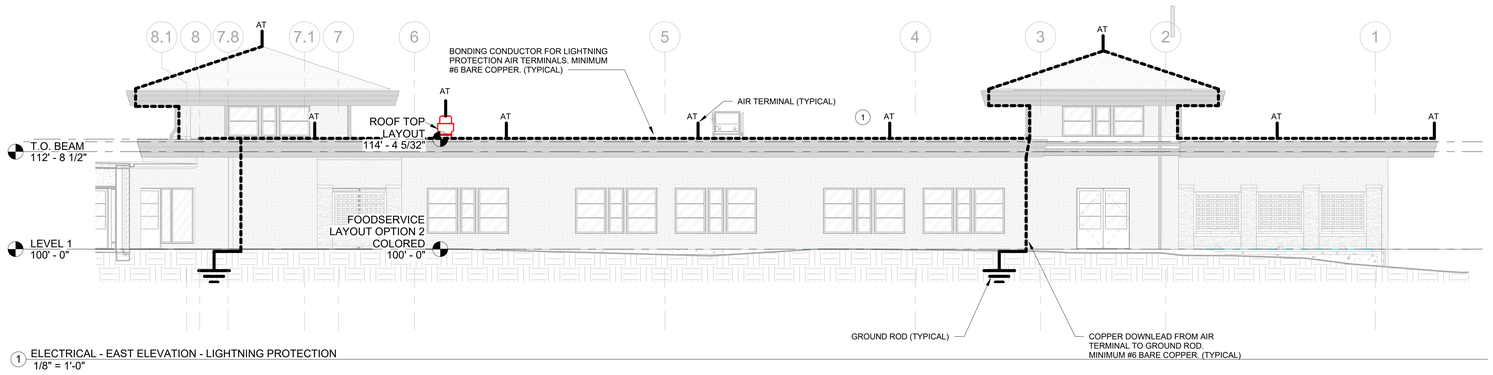
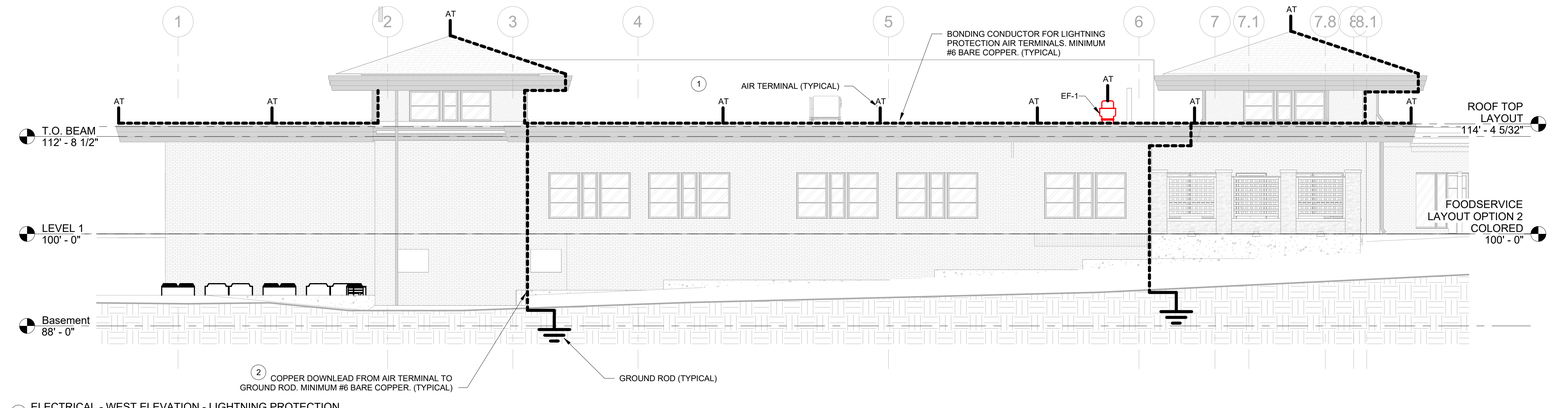
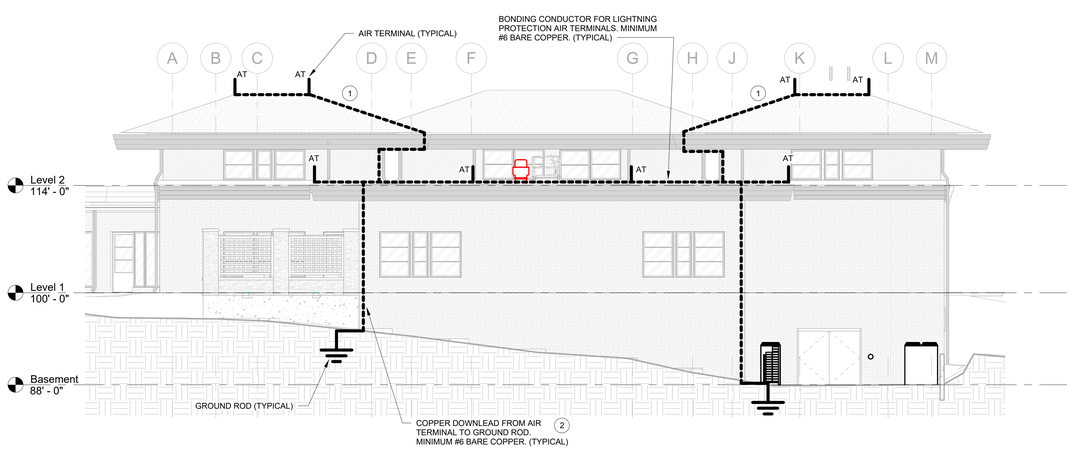


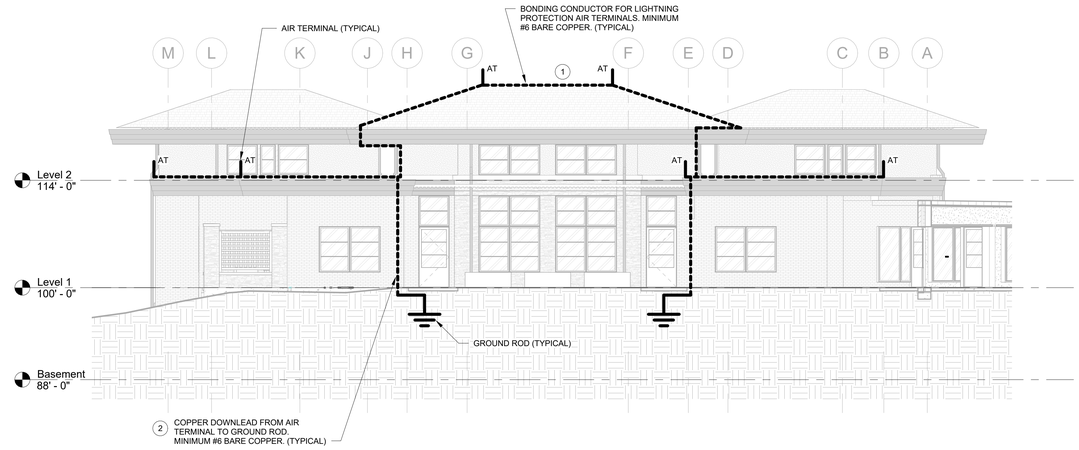
1 ELECTRICAL - EAST ELEVATION - LIGHTNING PROTECTION
1/8" = 1'-0"



2 ELECTRICAL - WEST ELEVATION - LIGHTNING PROTECTION
1/8" = 1'-0"



3 ELECTRICAL - NORTH ELEVATION - LIGHTING PROTECTION
1/8" = 1'-0"



4 ELECTRICAL - SOUTH ELEVATION - LIGHTNING PROTECTION
1/8" = 1'-0"

NEW WORK GENERAL NOTES

A. THE DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED, IS INTENDED FOR REFERENCE PURPOSE ONLY.

B. COPPER SHALL BE OF THE GRADE REQUIRED FOR COMMERCIAL ELECTRICAL WORK AND SHALL BE OF 95 PERCENT CONDUCTIVITY WHEN ANNEALED.

C. PROTECTION SYSTEMS SHALL BE MADE UP OF MATERIALS THAT ARE RESISTANT TO OR PROTECTED AGAINST CORROSION.

D. COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON OR IN CONTACT WITH ALUMINUM ROOFING, ALUMINUM SIDING, OR OTHER ALUMINUM SURFACES.

E. ANY PART OF A LIGHTNING PROTECTION SYSTEM THAT IS SUBJECT TO MECHANICAL DAMAGE OR DISPLACEMENT SHALL BE PROTECTED WITH A PROTECTIVE MOLDING OR COVERING.

F. DOWN CONDUCTORS ENTERING CORROSIVE SOIL SHALL BE PROTECTED AGAINST CORROSION BY A PROTECTIVE COVERING BEGINNING AT A POINT 3 FT (1 M) ABOVE GRADE LEVEL AND EXTENDING FOR THEIR ENTIRE LENGTH BELOW GRADE.

G. UNDERGROUND METALLIC PIPING OR GROUND ROD -TYPE ELECTRODES FOR ELECTRICAL, COMMUNICATIONS, OR OTHER SYSTEMS SHALL NOT BE USED IN LIEU OF LIGHTNING GROUNDING ELECTRODES.

H. THE DOWN CONDUCTOR(S) SHALL BE ATTACHED PERMANENTLY TO THE GROUNDING ELECTRODE SYSTEM BY BOLTING, BRAZING, WELDING, OR HIGH-COMPRESSION CONNECTORS LISTED FOR THE PURPOSE.

I. WHERE PRACTICABLE, GROUNDING ELECTRODES SHALL BE INSTALLED BELOW THE FROST LINE (EXCLUDING SHALLOW TOPSOIL CONDITIONS).

J. CABLE MUST RUN FROM AIR TERMINALS TAKING A HORIZONTAL OR DOWNWARD PATH TO GROUND ROD. IF NECESSARY, CABLE MAY RUN SLIGHTLY UPHILL FROM AIR TERMINALS OR BOND LOCATIONS AT A RATE OF 3" RISE PER 12" OF RUN. REFER TO NFPA 780 PARAGRAPH 3.1.2. FASTEN CABLE EVERY 3'-0" OC MAXIMUM SPACING.

NEW WORK KEYED NOTES

(1) PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 780 AND UL 96 & 96A. LAYOUT SHOWN IS FOR REFERENCE PURPOSES ONLY. EXACT LIGHTNING PROTECTION SYSTEM LAYOUT SHALL BE DETERMINED BY SHOP DRAWINGS BY LIGHTNING PROTECTION VENDOR. COORDINATE WITH LIGHTNING PROTECTION VENDOR AND OTHER TRADES.

(2) LIGHTNING PROTECTION CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL DOWNLEADS WITH THE ARCHITECT PRIOR TO INSTALLATION.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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STAMP

GEORGIA REGISTERED No. PE052010 PROFESSIONAL ENGINEER
Nicholas Espositio

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - BUILDING ELEVATIONS - LIGHTNING PROTECTION

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: NGE | Drawn: NMG

Project Number: 508-349

Building Number:

Drawing Number: ES121

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC/4792 - CE Central Model.rvt 12/16/2024 9:47:28 AM

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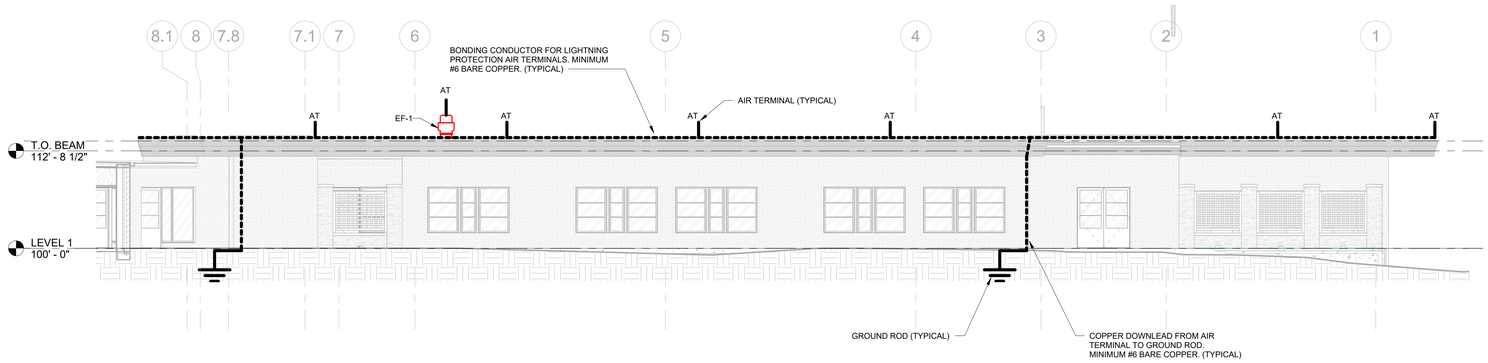
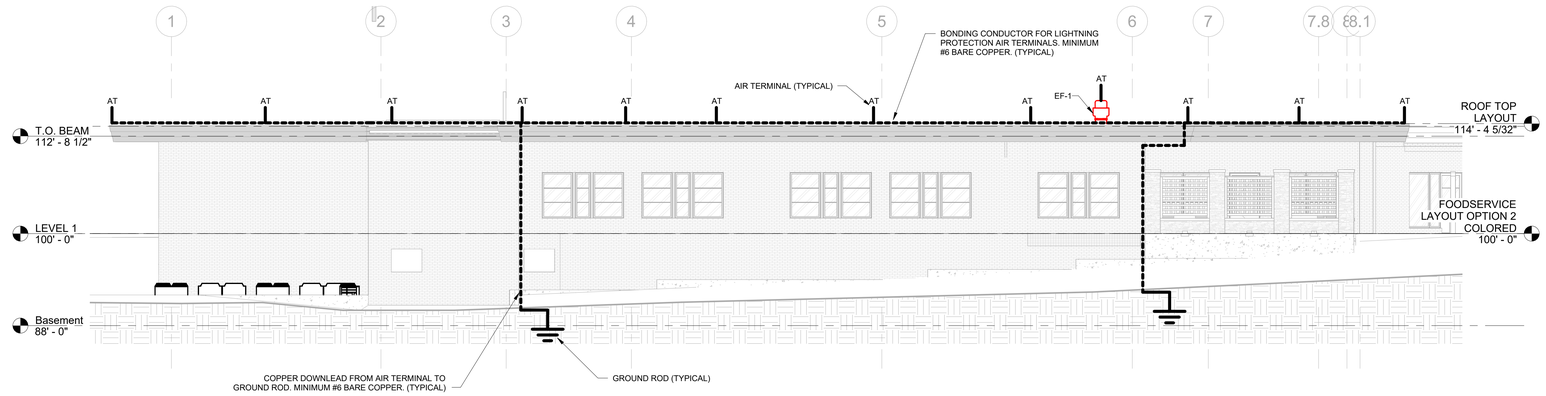
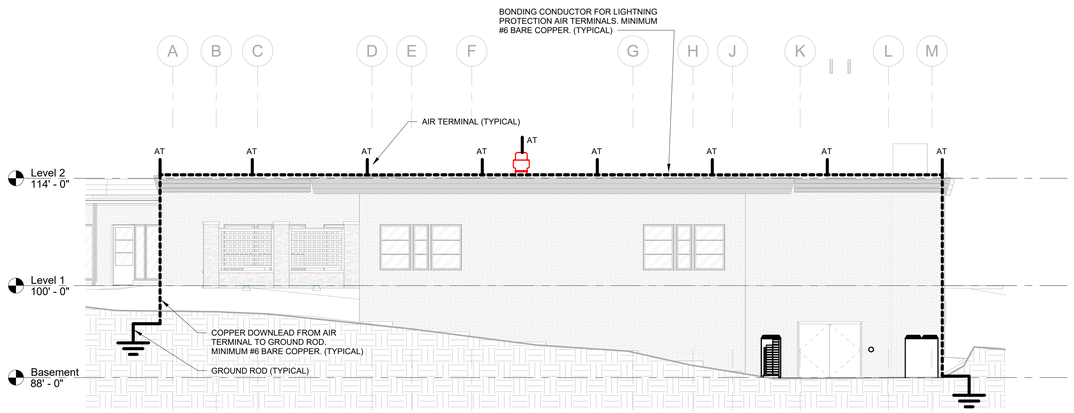


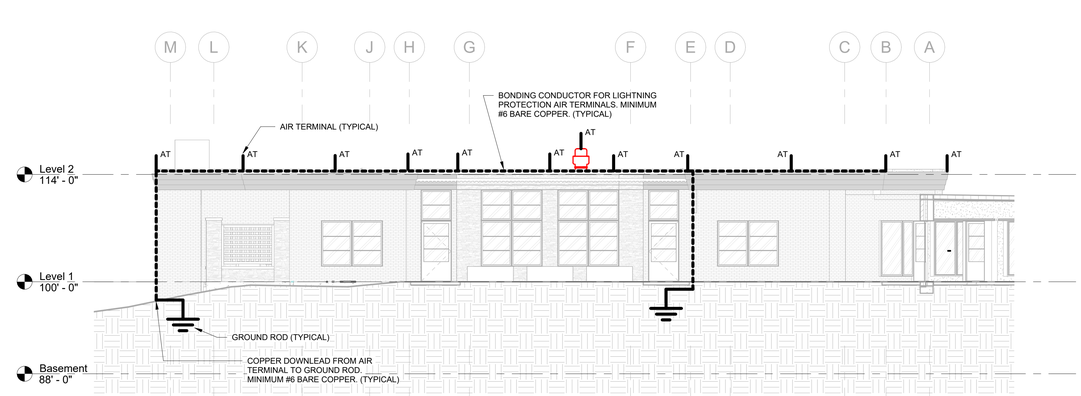
4 ELECTRICAL - EAST ELEVATION - LIGHTNING PROTECTION - ALTERNATE
1/8" = 1'-0"



3 ELECTRICAL - WEST ELEVATION - LIGHTNING PROTECTION - ALTERNATE
1/8" = 1'-0"



2 ELECTRICAL - NORTH ELEVATION - LIGHTING PROTECTION - ALTERNATE
1/8" = 1'-0"



1 ELECTRICAL - SOUTH ELEVATION - LIGHTNING PROTECTION - ALTERNATE
1/8" = 1'-0"

NEW WORK GENERAL NOTES

A. THE DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED, IS INTENDED FOR REFERENCE PURPOSE ONLY.

B. COPPER SHALL BE OF THE GRADE REQUIRED FOR COMMERCIAL ELECTRICAL WORK AND SHALL BE OF 95 PERCENT CONDUCTIVITY WHEN ANNEALED.

C. PROTECTION SYSTEMS SHALL BE MADE UP OF MATERIALS THAT ARE RESISTANT TO OR PROTECTED AGAINST CORROSION.

D. COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON OR IN CONTACT WITH ALUMINUM ROOFING, ALUMINUM SIDING, OR OTHER ALUMINUM SURFACES.

E. ANY PART OF A LIGHTNING PROTECTION SYSTEM THAT IS SUBJECT TO MECHANICAL DAMAGE OR DISPLACEMENT SHALL BE PROTECTED WITH A PROTECTIVE MOLDING OR COVERING.

F. DOWN CONDUCTORS ENTERING CORROSIVE SOIL SHALL BE PROTECTED AGAINST CORROSION BY A PROTECTIVE COVERING BEGINNING AT A POINT 3 FT (1 M) ABOVE GRADE LEVEL AND EXTENDING FOR THEIR ENTIRE LENGTH BELOW GRADE.

G. UNDERGROUND METALLIC PIPING OR GROUND ROD–TYPE ELECTRODES FOR ELECTRICAL, COMMUNICATIONS, OR OTHER SYSTEMS SHALL NOT BE USED IN LIEU OF LIGHTNING GROUNDING ELECTRODES.

H. THE DOWN CONDUCTOR(S) SHALL BE ATTACHED PERMANENTLY TO THE GROUNDING ELECTRODE SYSTEM BY BOLTING, BRAZING, WELDING, OR HIGH-COMPRESSION CONNECTORS LISTED FOR THE PURPOSE.

I. WHERE PRACTICABLE, GROUNDING ELECTRODES SHALL BE INSTALLED BELOW THE FROST LINE (EXCLUDING SHALLOW TOPSOIL CONDITIONS).

J. CABLE MUST RUN FROM AIR TERMINALS TAKING A HORIZONTAL OR DOWNWARD PATH TO GROUND ROD. IF NECESSARY, CABLE MAY RUN SLIGHTLY UPHILL FROM AIR TERMINALS OR BOND LOCATIONS AT A RATE OF 3" RISE PER 12" OF RUN, REFER TO NFPA 780 PARAGRAPH 3.1.2. FASTEN CABLE EVERY 3'-0" OC MAXIMUM SPACING.

NEW WORK KEYED NOTES

1. PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 780 AND UL 96 & 96A. LAYOUT SHOWN IS FOR REFERENCE PURPOSES ONLY. EXACT LIGHTNING PROTECTION SYSTEM LAYOUT SHALL BE DETERMINED BY SHOP DRAWINGS BY LIGHTNING PROTECTION VENDOR. COORDINATE WITH LIGHTNING PROTECTION VENDOR AND OTHER TRADES.
2. LIGHTNING PROTECTION CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL DOWNLEADS WITH THE ARCHITECT PRIOR TO INSTALLATION.

Revisions:	Date:

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GEORGIA REGISTERED No. PE052010 PROFESSIONAL ENGINEER NICHOLAS G. ESPOSITO

Nicholas Esposito

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - ALTERNATE BUILDING ELEVATIONS - LIGHTNING PROTECTION

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: NGE | Drawn: NMG

Project Number: 508-349

Building Number:

Drawing Number: ES121A

Autodesk Docs://22.9003 - VA Atlanta Trinka Davis CLC/4792 - CE Central Model.rvt
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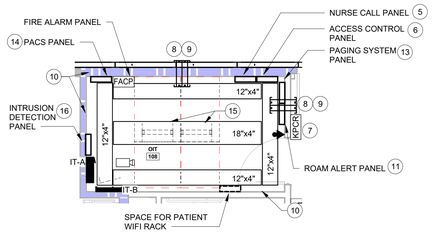
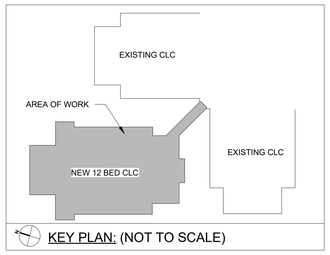


2 ELECTRICAL - SPECIAL SYSTEMS PLAN - TELECOMMUNICATIONS ROOM
1/4" = 1'-0"



WALL RATING LEGEND

- 2 HR FIRE RATED
- 1 HR FIRE RATED
- 1 HR SMOKE BARRIER
- SMOKE PARTITION

NEW WORK GENERAL NOTES

A. SEE DRAWING E002 FOR SYMBOLS, SCHEDULES AND NOTES.

B. THE EXIT POINT OF ALL CONDUIT/SLEEVES POSITIONED HORIZONTALLY MUST BE FITTED WITH A CONDUIT WATERFALL TYPE SUPPORT SYSTEM SUCH AS THE PANDUIT CWF 400, OR APPROVED EQUIVALENT, TO CONTROL THE BEND RADIUS OF THE COMMUNICATION CABLE TO A MINIMUM OF A 4" RADIUS.

C. ALL OUTLET LOCATIONS ARE DIAGRAMMATIC. THE EXACT LOCATIONS SHALL BE COORDINATED WITH THE CORVA CONTRACTING OFFICER'S REPRESENTATIVE PRIOR TO ROUGH-IN AND VERIFIED IN THE FIELD.

D. THE STRUCTURED CABLING SYSTEM SHALL USE A SYSTEM OF DEVICES TO CREATE AN INDEPENDENT SUPPORT SUBSYSTEM FASTENED TO BUILDING STRUCTURAL STEEL. WHEN EXITING LADDER RACK, SLEEVES, TRAY OF ANY TYPE OF CONDUIT PATHWAYS, BOTH HORIZONTAL AND VERTICAL, THE CABLE SHALL BE SUPPORTED EVERY 4-5 FEET.

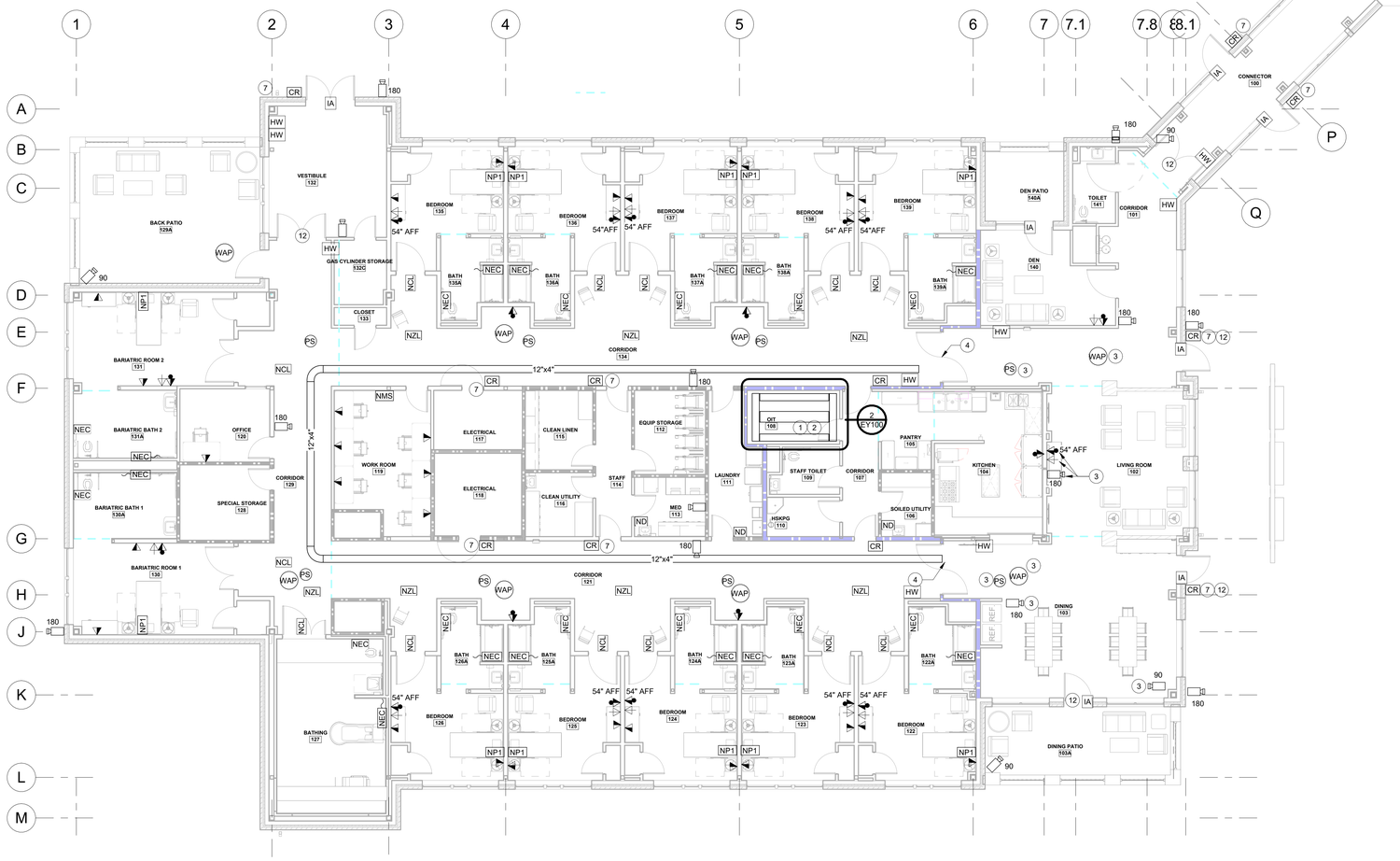
E. ALL THRU WALL OR THRU FLOOR PENETRATIONS, AS WELL AS ANY CONDUIT PATHWAYS USED FOR THE STRUCTURED CABLING SYSTEM, SHALL BE EITHER RETURNED TO THEIR NORMAL ORIGINAL INTEGRITY, IF THAT ORIGINAL CONDITION WAS DEFICIENT, IT SHALL BE BROUGHT UP TO STANDARDS, OR SHALL BE MADE WHOLE BY USE OF AN APPROPRIATE FIRE-RATED SYSTEM. ALL TELECOMMUNICATIONS SLEEVES FOR THIS PROJECT SHALL BE FIRE STOPPED. ALL EXTERIOR ENTRANCE CONDUITS SHALL BE PLUGGED WITH A WATER PROOF PLUG.

F. ALL OUTLET LOCATIONS SHALL BE IDENTIFIED WITH A TIA 606-D COMPLIANT LABELING SYSTEM. LABELING CONVENTIONS SHALL BE APPROVED BY THE OWNER. PROVIDE A LAMINATED 30" X 42" AS-BUILT DOCUMENT SHOWING ALL LABELS AT EACH OUTLET. THE DOCUMENT SHALL BE FRAMED AND POSTED IN THE TELECOM ROOM.

G. ALL DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE COORDINATION DOCUMENTS IN ACCORDANCE WITH THE SPECIFICATIONS. ADDITIONAL TRANSITIONS REQUIRED DUE TO FIELD CONDITIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

H. ELECTRICAL DEVICES PROVIDED IN DIVISION 26 ARE SHOWN FOR COORDINATION PURPOSES ONLY.

I. A PROPOSED CABLE TRAY ROUTING IS SHOWN TO ILLUSTRATE A FEASIBLE ROUTE BASED ON KNOWN OBSTACLES AND HAS BEEN COORDINATED WITH OTHER DISCIPLINES. CONTRACTOR SHALL PROVIDE AS-BUILT, BIM COORDINATED DRAWINGS TO BE DISCUSSED AT THE "IT" PRESUBMITTAL MEETING. ROUTING SHALL BE COORDINATED IN FIELD WITH OTHER TRADES.



1 ELECTRICAL - FIRST FLOOR - SPECIAL SYSTEMS PLAN
1/8" = 1'-0"

NOTE

AN "IT" PRE-SUBMITTAL MEETING WILL BE REQUIRED PRIOR TO SUBMITTAL REVIEW WITH VA "IT" REPRESENTATIVE AND ARCHITECT/ENGINEER. CONTRACTOR TO COORDINATE WITH THE VA CONTRACTING OFFICER'S REPRESENTATIVE 14 DAYS PRIOR TO MEETING.

NEW WORK KEYED NOTES

1. LOCATION OF TELECOMMUNICATIONS ROOM. NEW RACKS IN THE TELECOMMUNICATIONS ROOM (OIT 108) WILL BE SUPPLIED BY SINGLE MODE FIBER FROM THE MAIN COMPUTER ROOM (MCR) IN EXISTING FACILITY.
2. REFER TO SHEET EY110 FOR PROPOSED CONDUIT ROUTE.
3. DEVICE SHALL BE ROUTED THROUGH CONDUIT TO THE CLOSEST ACCESIBLE CEILING
4. CONTRACTOR SHALL PROVIDE FIRE RATED PATHWAY WITH THREE (1) - 4" OPENING FOR PASSAGE OF CABLING THROUGH RATED WALL.
5. PROVIDE NURSE CONTROL PANEL. CONTRACTOR SHALL PROVIDE ALL WIRING AND INTEGRATION TO MAKE SYSTEM OPERATIONAL AND FUNCTIONAL.
6. PROVIDE ACCESS CONTROL PANEL FOR DOOR CONTROLS. CONTRACTOR SHALL PROVIDE ALL WIRING AND INTEGRATION TO MAKE SYSTEM OPERATIONAL AND FUNCTIONAL.
7. CONNECT CARD READER TO ACCESS CONTROL PANEL LOCATED IN TELECOMMUNICATIONS ROOM.
8. SLEEVE WITH BUSHING FIRESTOP AND INNERDUCT FOR FIBER. MAIN CROSS CONNECT (CAMPUS/BUILDING DISTRIBUTOR) - BACKBONE CABLING (MCR-TELECOMMUNICATIONS ROOMS).
9. SLEEVE WITH BUSHING FIRESTOP AND INNERDUCT FOR FIBER. HORIZONTAL DISTRIBUTION TO WORK AREA OUTLETS (WAO).
10. 8'-0" - HIGH X 3/4" THICK, AC GRADE, VOID FREE, 2-HOUR FIRE RATED PLYWOOD BACKBOARD COVERING TWO WALLS. CONTRACTOR SHALL INSTALL BACKBOARD 6"AFF.
11. ROAM ALERT PANEL SHALL BE COMPATIBLE WITH SOFTWARE HOUSE ISTAR PRO. CONNECT TO ROAM ALERT SYSTEM LOCATED IN MAIN TELECOMMUNICATIONS ROOM E048. CONTRACTOR SHALL PROVIDE ALL WIRING AND INTEGRATION TO MAKE SYSTEM OPERATIONAL AND FUNCTIONAL.
12. DOOR SHALL BE CONNECTED TO ROAM ALERT SYSTEM LOCATED IN TELECOMMUNICATIONS ROOM. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT CONTRACTOR PRIOR TO ROUGH-IN.
13. PAGING PANEL SHALL BE COMPATIBLE WITH EXISTING SYSTEM. CONNECT TO PAGING SYSTEM LOCATED IN ELECTRICAL ROOM E096. CONTRACTOR SHALL PROVIDE ALL WIRING AND INTEGRATION TO MAKE SYSTEM OPERATIONAL AND FUNCTIONAL.
14. PACS PANEL SHALL BE COMPATIBLE WITH EXISTING SYSTEM. CONTRACTOR SHALL PROVIDE ALL WIRING AND INTEGRATION TO MAKE SYSTEM OPERATIONAL AND FUNCTIONAL.
15. DATA RACK, REFER TO SHEET E005/DETAIL 11 FOR RACK REQUIREMENTS. COORDINATE WITH THE VA CONTRACTING OFFICER'S REPRESENTATIVE PRIOR TO PURCHASE.
16. PROVIDE NEW INTRUSION DETECTION PANEL. SYSTEM SHALL BE COMPATIBLE WITH SURVEILANCE SYSTEM. CONTRACTOR SHALL PROVIDE ALL WIRING AND INTEGRATION TO MAKE SYSTEM OPERATIONAL AND FUNCTIONAL.

GRAPHIC SCALE
4 0 2 4 8 16
(in Feet)
1 inch = 4 ft.

GRAPHIC SCALE
8 0 4 8 16 32
(in Feet)
1 inch = 8 ft.

Revisions:	Date:

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GEORGIA REGISTERED No. PE052010 PROFESSIONAL ENGINEER
Nicholas Esposito

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - FIRST FLOOR - SPECIAL SYSTEMS PLAN

Approved:

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: CONSTRUCT TDVV CLC 12 BEDS

Location: 180 MARTIN DR, CARROLLTON, GA 30117

Issue Date: 12/16/2024 | Checked: NGE | Drawn: NMG

Project Number: 508-349

Building Number:

Drawing Number: EY100

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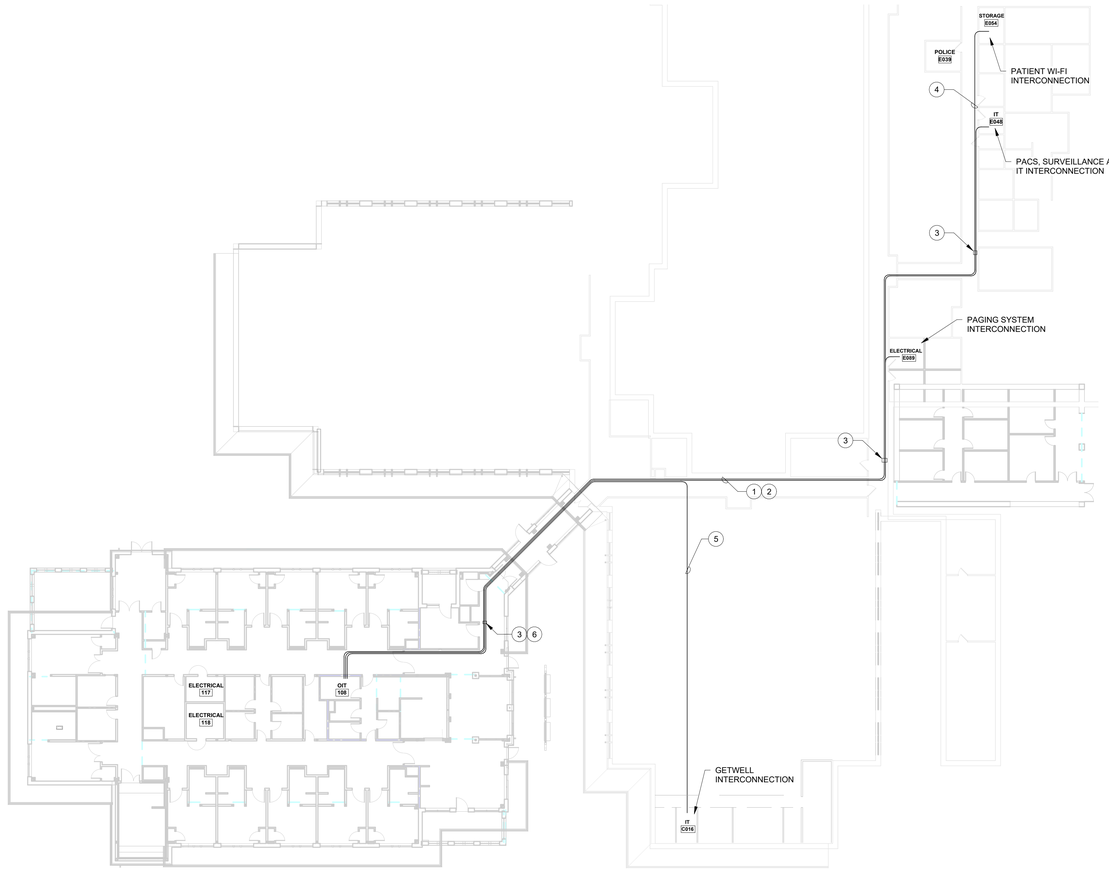


1 ELECTRICAL - FIRST FLOOR - SPECIAL SYSTEMS ROUTING PLAN
1" = 20'-0"

NEW WORK GENERAL NOTES

A. SEE DRAWING E002 FOR SYMBOLS, SCHEDULES AND NOTES.

B. THE EXIT POINT OF ALL CONDUIT/SLEEVES POSITIONED HORIZONTALLY MUST BE FITTED WITH A CONDUIT WATERFALL TYPE SUPPORT SYSTEM SUCH AS THE PANDUIT CWF 400, OR APPROVED EQUIVALENT, TO CONTROL THE BEND RADIUS OF THE COMMUNICATION CABLE TO A MINIMUM OF A 4" RADIUS.

C. ALL OUTLET LOCATIONS ARE DIAGRAMMATIC. THE EXACT LOCATIONS SHALL BE COORDINATED WITH THE CORVA CONTRACTING OFFICER'S REPRESENTATIVE PRIOR TO ROUGH-IN AND VERIFIED IN THE FIELD.

D. THE STRUCTURED CABLING SYSTEM SHALL USE A SYSTEM OF DEVICES TO CREATE AN INDEPENDENT SUPPORT SUBSYSTEM FASTENED TO BUILDING STRUCTURAL STEEL. WHEN EXITING LADDER RACK, SLEEVES, TRAY OF ANY TYPE OF CONDUIT PATHWAYS, BOTH HORIZONTAL AND VERTICAL, THE CABLE SHALL BE SUPPORTED EVERY 4-5 FEET.

E. ALL THRU WALL OR THRU FLOOR PENETRATIONS, AS WELL AS ANY CONDUIT PATHWAYS USED FOR THE STRUCTURED CABLING SYSTEM, SHALL BE EITHER RETURNED TO THEIR NORMAL ORIGINAL INTEGRITY, IF THAT ORIGINAL CONDITION WAS DEFICIENT, IT SHALL BE BROUGHT UP TO STANDARDS, OR SHALL BE MADE WHOLE BY USE OF AN APPROPRIATE FIRE-RATED SYSTEM. ALL TELECOMMUNICATIONS SLEEVES FOR THIS PROJECT SHALL BE FIRE STOPPED. ALL EXTERIOR ENTRANCE CONDUITS SHALL BE PLUGGED WITH A WATER PROOF PLUG.

F. ALL OUTLET LOCATIONS SHALL BE IDENTIFIED WITH A TIA 606-D COMPLIANT LABELING SYSTEM. LABELING CONVENTIONS SHALL BE APPROVED BY THE OWNER. PROVIDE A LAMINATED 30" X 42" AS-BUILT DOCUMENT SHOWING ALL LABELS AT EACH OUTLET. THE DOCUMENT SHALL BE FRAMED AND POSTED IN THE TELECOM ROOM.

G. ALL DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE COORDINATION DOCUMENTS IN ACCORDANCE WITH THE SPECIFICATIONS. ADDITIONAL TRANSITIONS REQUIRED DUE TO FIELD CONDITIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

H. ELECTRICAL DEVICES PROVIDED IN DIVISION 26 ARE SHOWN FOR COORDINATION PURPOSES ONLY.

I. A PROPOSED CABLE TRAY ROUTING IS SHOWN TO ILLUSTRATE A FEASIBLE ROUTE BASED ON KNOWN OBSTACLES AND HAS BEEN COORDINATED WITH OTHER DISCIPLINES. CONTRACTOR SHALL PROVIDE AS-BUILT. BM COORDINATED DRAWINGS TO BE DISCUSSED AT THE "IT" PRESUBMITTAL MEETING. ROUTING SHALL BE COORDINATED IN FIELD WITH OTHER TRADES.

NOTE

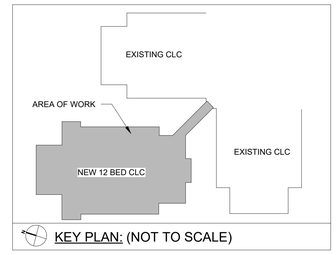
AN "IT" PRE-SUBMITTAL MEETING WILL BE REQUIRED PRIOR TO SUBMITTAL REVIEW WITH VA "IT" REPRESENTATIVE AND ARCHITECT/ENGINEER. CONTRACTOR TO COORDINATE WITH THE VA CONTRACTING OFFICER'S REPRESENTATIVE 14 DAYS PRIOR TO MEETING.

NEW WORK KEYED NOTES

1. PROPOSED PATH OF CONDUIT ROUTED ABOVE CEILING THROUGH EXISTING CORRIDOR FROM SPECIALSYSTEMS HEAD-END EQUIPMENT TO NEW OIT ROOM 108. APPROXIMATE RUN LENGTH IS 400 FT TO FURTHEST SYSTEM. VERIFY EXACT ROUTING AND RUN LENGTH IN THE FIELD PRIOR TO ROUGH-IN.
2. PROVIDE 2-2" CONDUITS ABOVE ARCHITECTURAL CEILING FOR TELECOMMUNICATIONS WIRING. COORDINATE WITH THE VA CONTRACTING OFFICER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
3. PROPOSED PULL BOX AT THIS TURN LOCATION. SIZE PULL BOX PER NEC.
4. PROPOSED PATH OF CONDUIT ROUTED ABOVE CEILING THROUGH EXISTING CORRIDOR FROM STORAGE ROOM E054 TO NEW OIT ROOM 108. APPROXIMATE RUN LENGTH IS 450 FT. VERIFY EXACT ROUTING AND RUN LENGTH IN THE FIELD. PROVIDE 1-1" CONDUIT ABOVE ARCHITECTURAL CEILING FOR PATIENT WIFI WIRING. COORDINATE WITH THE VA CONTRACTING OFFICER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
5. PROPOSED PATH OF CONDUIT ROUTED ABOVE CEILING THROUGH EXISTING CORRIDOR FROM IT ROOM C016E TO NEW OIT ROOM 108. APPROXIMATE RUN LENGTH IS 275 FT. VERIFY EXACT ROUTING AND RUN LENGTH IN THE FIELD. PROVIDE 1-1" CONDUIT ABOVE ARCHITECTURAL CEILING FOR GETWELL SYSTEM. COORDINATE WITH THE VA CONTRACTING OFFICER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
6. COORDINATE LOCATION OF ACCESS PANEL FOR PULL BOX WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.

WALL RATING LEGEND

- 2 HR FIRE RATED
- 1 HR FIRE RATED
- 1 HR SMOKE BARRIER
- SMOKE PARTITION



KEY PLAN: (NOT TO SCALE)

GRAPHIC SCALE

20 0 10 20 40 80

(in Feet)

1 inch = 20 ft.

Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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CHARLOTTE, NC 28212

STAMP

GEORGIA REGISTERED No. PE052010 PROFESSIONAL ENGINEER NICHOLAS G. ESPOSITO

Nicholas Esposito

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL - FIRST FLOOR - SPECIAL SYSTEMS ROUTING PLAN

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT TDVV CLC 12 BEDS

Location
180 MARTIN DR, CARROLLTON, GA 30117

Issue Date 12/16/2024 | **Checked** NGE | **Drawn** NMG

Project Number 508-349

Building Number

Drawing Number EY110

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