JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

PROJECT TEAM

OWNER
JASPER WATERWORKS @ SEWER BOARD, INC
1620 ALABAMA AVE
JASPER, AL 35501
PROJECT CONTACT:
EMAIL:
PHONE: (205) 221-1241

GENERAL CONTRACTOR
CONTRACTOR'S NAME
CONTRACTOR'S STREET ADDRESS
CONTRACTOR'S CITY, STATE, AND ZIP CODE
PROJECT CONTACT:
EMAIL:
PHONE:

ARCHITECT
CCR ARCHITECTURE & INTERIORS
2920 1ST AVENUE SOUTH
BIRMINGHAM, AL 35233
PROJECT CONTACT: DANNY TROTTER
EMAIL: DANNY@CCRARCHITECTURE.COM
PHONE: (205) 324-8864

CIVIL ENGINEER
MCGEHEE ENGINEERING CORP
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JASPER, AL 35502
PROJECT CONTACT: ZAC MCGEHEE
EMAIL: ZAC@MCGEHEE.ORG
PHONE: (205) 221-0686

STRUCTURAL ENGINEER
STRUCTURAL DESIGN GROUP, INC.
700 CENTURY PARK SOUTH
SUITE 114
BIRMINGHAM, AL 35266
PROJECT CONTACT: STEWART LEE
EMAIL: SLEE@SDG-US.COM
PHONE: (205) 380-3820

MECHANICAL & PLUMBING ENGINEER
MICHAELS ENGINEERING, LLC
3305 PARK LANE DRIVE
BRMINGHAM, AL 35226
PROJECT CONTACT: KEN MICHAELS
EMAIL: KEN@MICHAELSENG.COM
PHONE: (205) 979-1232

ELECTRICAL ENGINEER
GW ENGINEERING, LLC
4120 OVERLOOK CIRCLE
TRUSSVILLE, AL 35173
PROJECT CONTACT: GIDEON WAMAE
EMAIL: GWAMAE@GW-ENG.COM
PHONE: (205) 413-4112

ISSUED FOR:
BIDDING 10/28/26



ILLUSTRATIVE PERSPECTIVE - NOT FOR CONSTRUCTION - SUBJECT TO CHANGE



NORTH VICINITY MAP

RESPONSIBILITY SCHEDULE

DESCRIPTION	GC FURN.	GC INSTALL	OWNER FURN.	OWNER INSTALL	COMMENTS
CMT INSPECTIONS			o		
SPECIAL INSPECTIONS			o		
GATE			o	o	
FURNITURE AND FIXTURES		o	o		
CABLING	o	o			GC TO PROVIDE ROUGH INS TO ABOVE CEILING
ALL PHONE, DATA & SECURITY EQUIPMENT			o	o	GC TO PROVIDE ROUGH INS
SECURITY WIRING, COVERPLATES	o			o	GC TO PROVIDE ROUGH INS
SECURITY CONDUIT, J-BOXES	o	o			
COMPUTER EQUIPMENT/SYSTEM			o	o	
LOCKERS			o	o	
INTERIOR SIGNAGE	o	o			GC TO PROVIDE SIGNAGE AS REQUIRED BY CODE
INTERIOR GRAPHICS/ARTWORK			o	o	
EXTERIOR SIGNAGE (NOT INCLUDING THE MONUMENT SIGN)			o	o	
APPLIANCES			o	o	GC TO PROVIDE HOOK UPS
FIRE ALARM SYSTEM			o	o	PAY FOR AND SET UP INITIAL TESTING FOR THE INSPECTOR, UNDER SEPARATE PERMIT. OWNER TO COORDINATE INSTALLATION AND SETUP OF FIRE ALARM SYSTEM WITH THE JASPER WATER WORKS DESIGNATED SECURITY VENDOR.

RESPONSIBILITY NOTES

1. THE RESPONSIBILITY SCHEDULE IS A GENERAL LIST FOR REFERENCE ONLY. ALL ITEMS NOT LISTED OR OTHERWISE NOTED SHALL BE PROVIDED, INSTALLED, DELIVERED, AND ASSEMBLED BY THE G.C.
2. G.C. TO COORDINATE DELIVERY SCHEDULE AND INSTALLATION OF ALL OWNER SUPPLIED ITEMS WITH OWNER/ OWNER'S REP.
3. ALL INSTALLATION AND FINAL HOOK-UP OF EQUIPMENT/ MATERIALS BY G.C. UNLESS OTHERWISE NOTED.
4. G.C. TO REMOVE ALL EQUIPMENT AND MATERIALS BY OWNER FROM TRUCK, PLACE ON SITE AND HOOK-UP, TYP UNLESS OTHERWISE NOTED.
5. G.C. TO COORDINATE LOCATION OF ALL RECEPTACLE, SWITCH, OTHER HEIGHTS WITH COUNTER AND EQUIPMENT HEIGHTS.
6. G.C. TO COORDINATE ALL FACE PLATES, RECEPTACLE COVERS, CEILING PLATES, DIFFUSERS, ETC TO MATCH THE FINAL WALL COLOR AS CLOSELY AS POSSIBLE, U.N.O.
7. G.C. TO PROVIDE ALL CONNECTIONS TO ALL EQUIPMENT, POWER, GAS, WATER, WASTE, ETC.

ADD ALTERNATES

1. ALTERNATE #1: OPEN SHED BUILDING AND ASSOICATED ENGINEERING. CIVIL WILL REMAIN AND BID AS DRAWN.

GENERAL NOTES

1. CONTRACTOR AND SUBCONTRACTORS SHALL VISIT PROPERTY TO VERIFY EXISTING CONDITIONS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO SUBMITTING A PRICE OR BID.
2. WORK SHALL CONFORM TO THE REQUIREMENTS OF THE STATE AND LOCAL AUTHORITIES HAVING JURISDICTION, INCLUDING APPLICABLE BUILDING CODES AND ORDINANCES.
3. CONTRACTOR AND SUBCONTRACTORS SHALL COORDINATE ALL ARCHITECTURAL AND ENGINEERING DRAWINGS AND SPECIFICATIONS. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES.
4. CONTRACTOR TO PROVIDE FINAL AS-BUILT ALTA SURVEY AND CONSTRUCTION DRAWINGS TO OWNER AND ARCHITECT.
5. ALL MATERIALS AND EQUIPMENT REFERRED TO IN NOTES AND KEYNOTE LEGENDS SHALL BE NEW AND FURNISHED AND INSTALLED UNDER THE WORK OF THIS PROJECT UNLESS NOTED OTHERWISE AS EXISTING OR TO BE FURNISHED AND INSTALLED BY OWNER.
6. CONTRACTORS AND SUBCONTRACTORS SHALL EMPLOY SKILLED WORKMEN TO PERFORM ALL WORK IN ACCORDANCE WITH THE BEST STANDARDS OF WORK FOR ALL CATEGORIES OF WORK IN THE PROJECT.
7. CONTRACTOR AND SUBCONTRACTORS SHALL COORDINATE THEIR WORK WITH ALL OTHER SUBCONTRACTORS TO FACILITATE A SMOOTH WORK PROGRESSION.
8. CONTRACTOR AND SUBCONTRACTORS SHALL SECURE THE ARCHITECT'S APPROVAL OF SUBSTITUTIONS PRIOR TO INSTALLATION. ARCHITECT SHALL SUPPLY TO CONTRACTOR SUBSTITUTIONS IN PROMPT ATTENTIVENESS TO THE PROGRESSION OF WORK.
9. CONTRACTOR SHALL OBTAIN AND PAY FOR REQUIRED PERMITS AND APPROVALS AND SHALL NOTIFY AND SCHEDULE REQUIRED INSPECTIONS AND APPROVALS WITH AUTHORITIES HAVING JURISDICTION.
10. CONTRACTOR SHALL PROVIDE AND MAINTAIN SUITABLE PROTECTION FOR EMPLOYEES AND THE PUBLIC AND OCCUPANTS DURING THE COURSE OF THE WORK, COMPLYING WITH APPLICABLE JOB SAFETY REGULATIONS.
11. SUBCONTRACTORS SHALL REMOVE FROM THE SITE DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM THEIR OPERATIONS. DISPOSE OF THIS MATERIAL LEGALLY. CONTRACTOR WILL BE RESPONSIBLE FOR FEES ASSOCIATED WITH SAID REMOVALS AND DISPOSALS. SUBCONTRACTOR SHALL MAINTAIN THE PROJECT SITE IN A NEAT AND SAFE CONDITION AT ALL TIMES.
12. CONTRACTOR SHALL SUBMIT SAMPLES AND COLOR SELECTIONS TO ARCHITECT FOR APPROVAL.
13. CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO COMMENCING ANY CONSTRUCTION WORK AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT.
14. FURNISH ACCESS PANELS IN WALLS AND CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, OR ELECTRICAL EQUIPMENT IS REQUIRED. ACCESS PANELS SHALL BE FIRE RATED EQUAL TO SURFACE IN WHICH THEY OCCUR.
15. PROVIDE CONTROL JOINTS IN GYPSUM WALLBOARD AT 30 FEET O.C., OR PER MANUFACTURERS RECOMMENDATIONS, OR PER SPECIFICATIONS; WHICHEVER IS MORE STRINGENT. WHERE POSSIBLE, LOCATE CONTROL JOINTS ABOVE DOOR FRAMES.
16. PROVIDE MOISTURE RESISTANT GYPSUM BOARD WHERE GYPSUM BOARD IS NOTED IN TOILETS, JANITORS CLOSETS, SHOWERS, TUBS, AND OTHER AREAS SUBJECT TO MOISTURE.

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STATE OF ALABAMA
TAMMY DANIELS COHEN
REGISTRATION NO. 4168
ARCHITECT
BIRMINGHAM ALABAMA
REGISTERED ARCHITECT

JASPER WATERWORKS - NEW BUILD
3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
10/28/26

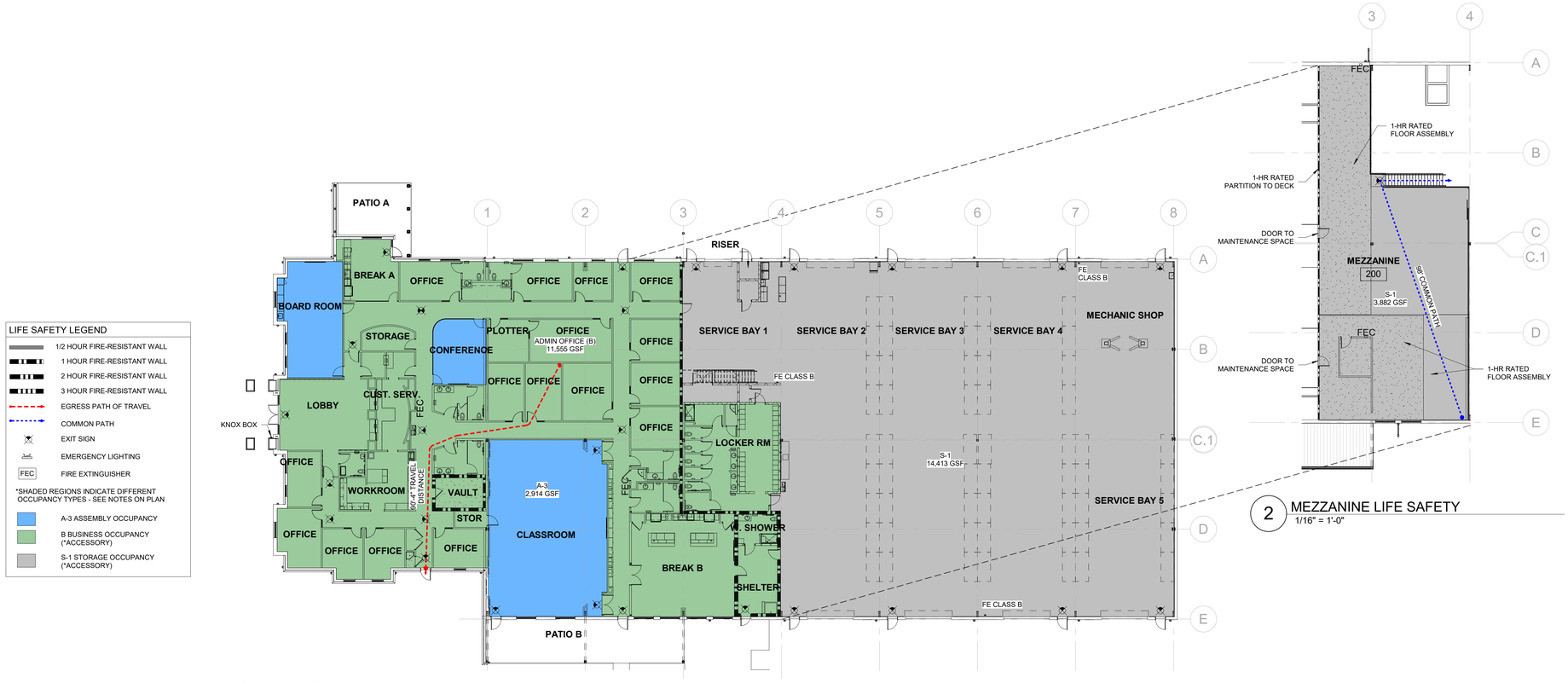
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SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
G000

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2 MEZZANINE LIFE SAFETY
1/16" = 1'-0"

PROJECT NORTH / TRUE NORTH

1 LEVEL 1 LIFE SAFETY & CODE
1/16" = 1'-0"

PROJECT SUMMARY

DESCRIPTION OF THE WORK:
THE PROJECT IS LOCATED AT 3877 INDUSTRIAL PARKWAY AT PARCEL NUMBER 64-17-06-24-3-000-002.000.

THE PROJECT CONSISTS OF A NEW 32,764-SQUARE-FOOT JASPER WATER WORKS CUSTOMER SERVICE FACILITY FEATURING ADMINISTRATIVE OFFICES, A BOARD ROOM, MEETING ROOM, AND CLASSROOM. THE FACILITY WILL BE CONNECTED TO A PRE-ENGINEERED METAL BUILDING THAT WILL HOUSE SERVICE VEHICLES AND STORAGE AREAS, WITH OVERHEAD DOORS PROVIDING ACCESS TO THE VEHICLE BAYS. THIS PORTION OF THE BUILDING WILL ALSO INCLUDE OFFICE SPACE, A BREAKROOM, LOCKER ROOMS, AND A STORM SHELTER. A 3,882-SQUARE-FOOT MEZZANINE WILL BE LOCATED ABOVE THE BREAKROOM AND LOCKER ROOM AREAS. IN ADDITION, THE SITE WILL INCLUDE A SEPARATE 14,000-SQUARE-FOOT OPEN-SIDED METAL SHED BUILDING FOR COVERED STORAGE AND OPERATIONAL USE.

ZONING: B4

CONSTRUCTION TYPE: IBC: IIB - SPRINKLERED/NFPA: II (000)

OCCUPANCY GROUP: NON-SPARATED MIXED OCCUPANCY-A-3, B, S-1.

APPLICABLE CODES

CITY OF JASPER

2024	INTERNATIONAL BUILDING CODE
2024	INTERNATIONAL PLUMBING CODE
2024	INTERNATIONAL FUEL GAS CODE
2024	INTERNATIONAL MECHANICAL CODE
2024	NATIONAL ELECTRICAL CODE (NFPA 70)
2024	INTERNATIONAL FIRE PROTECTION ASSOCIATION CODE
2015	NFPA 101 - LIFE SAFETY CODE
2017	ICC ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
2010	ADA STANDARDS FOR ACCESSIBLE DESIGN
2024	INTERNATIONAL ENERGY CONSERVATION CODE

LIFE SAFETY NOTES

1. BUILDING IS NOT A HIGH RISE.
2. EMERGENCY VOICE/FIRE ALARM IS REQUIRED.
3. BUILDING IS FULLY SPRINKLERED.
4. BUILDING IS SINGLE-STORY FULLY-SPRINKLERED UNLIMITED AREA BUILDING PER SECTION 507.6

FIRE EVACUATION PLANS

SEE SEPARATE ATTACHMENT FOR FIRE EVACUATION PLANS

SEE SEPARATE ATTACHMENT FOR LIFE SAFETY EVALUATION PER NFPA101

ACCESSIBLE PARKING

PARKING IBC T 1106.1	MINIMUM QTY REQUIRED	QTY PROVIDED
REQUIRED PARKING SPACES	--	84
TOTAL HC SPACES	4	4
HC SPACES - VAN	1	1

AREA SUMMARY

FLOOR	OCCUPANCY TYPE	AREA
LEVEL 1	A-3	2,914
	B	11,555
	S-1	14,413
	S-1(MEZZANINE)	3,882
	TOTAL AREA:	32,764 SF

BUILDING CLASSIFICATIONS - ALLOWABLE AREA

INTERNATIONAL BUILDING CODE 2024

OCCUPANCY	OCCUPANCY DESCRIPTION	TYPE OF CONSTRUCTION	ALLOWABLE BUILDING AREA: TABULAR AREA (PER FLOOR)	ALLOWABLE BUILDING AREA: FRONTAGE INCREASE (PER FLOOR)	ALLOWABLE BUILDING AREA: ALLOWABLE AREA (PER FLOOR)	ALLOWABLE: HEIGHT	ALLOWABLE: STORIES	STORIES PROVIDED
			TABLE 506.2	506.3	506.2	TABLE 504.3	504.4	
A-3	CONFERENCE	IIB	38,000	NA	UL	75	3	1
S-1	MODERATE-HAZARD STORAGE	IIB	70,000	NA	UL	75	4	1
B	ADMIN OFFICES	IIB	92,000			75	4	1

SPECIAL PROVISIONS
1.UNLIMITED AREA ONE-STORY SPRINKLERED BUILDING PER IBC 2015 507.4
MIXED USE BUILDING
TYPE IIB CONSTRUCTION
ONE STORY
FULLY SPRINKLERED
60' MIN ADJOINING PUBLIC WAYS AND YARDS

506.2 FRONTAGE INCREASE
I = [F/P - 0.25]W / 30
F
I = [1400/1400 - 0.25]30 / 30

I = .75
F

THE HEIGHT OF THE BUILDING IS LESS THAN 75'.

FIRE RESISTANCE RATINGS

INTERNATIONAL BUILDING CODE 2024 TABLE 601

BUILDING TYPE IIB

COMPONENT	RATING REQUIRED	RATING PROVIDED
PRIMARY STRUCTURAL FRAME -INCLUDING COLUMNS, GIRDERS, & TRUSSES	0	0
BEARING WALLS EXTERIOR INTERIOR	0 0	0 0
NONBEARING WALLS AND PARTITIONS EXTERIOR	0	0
NONBEARING WALLS AND PARTITIONS INTERIOR	0	0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0	0
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0	0

TABLE 602 - X > 30 - FIRE RESISTANCE RATING = 0

* NON-COMBUSTIBLE PER 602.3 (FRT FRAMING ACCEPTABLE)

FIRE RESISTANCE REQUIREMENTS

INTERNATIONAL BUILDING CODE 2024

COMPONENT	TYPE	CODE REFERENCE	RATING REQ'D	RATING PROV'D	DOOR RATING
CORRIDOR WALLS	NA	1020	0	0	0
MECHANICAL SHAFTS (3 OR LESS STORIES)	FIRE BARRIER	713.4	1	1	45 min
OCCUPANCY SEPARATION OTHER THAN STORAGE	FIRE BARRIER	508.4	1	1	45 min
STORAGE OCCUPANCY SEPARATION	FIRE PARTITION	508.4	1	1	45 min
FIRE PUMP ROOM	FIRE BARRIER	913.2.1, EX. 1	1	1	45 min
HORIZONTAL EXIT	FIRE BARRIER	1026.1	2	2	90 min

SEPARATION OF OCCUPANCY

INTERNATIONAL BUILDING CODE 2024 TABLE 508.4
NFPA 101 TABLE 6.1.14.4.1

SEPARATION RATINGS FULLY SPRINKLERED BUILDING	RATING REQUIRED	RATING PROVIDED
A-3 TO B	0	0
B TO S-1	0	0
S-1 TO A-3	1	1

OCCUPANT LOAD

INTERNATIONAL BUILDING CODE 2024

FLOOR LEVEL	OCCUPANCY (PER CHAPTER 10)	SQUARE FOOTAGE	S.F. PER OCCUPANT PER TABLE 1004.1.2	OCCUPANT LOAD
LEVEL 1	ASSEMBLY (A-3)	2,914	15 NET	195
	BUSINESS (B) ADMIN OFFICES, BREAK	11,555	100 GROSS	116
	STORAGE	14,413	300 GROSS	49
	STORAGE - MEZZANINE	3,926	300 GROSS	14
			TOTAL OCC. LOAD	374

***NOTE:**
-PLUMBING FIXTURES ARE CALCULATED BASED ON TYPICAL USE OCCUPANCY.

MEANS OF EGRESS REQUIREMENTS

INTERNATIONAL BUILDING CODE 2024

FLOOR LEVEL	OCCUPANT LOAD	MINIMUM NUMBER OF EXITS REQUIRED	NUMBER OF EXITS PROVIDED	MINIMUM EGRESS WIDTH REQUIRED	EGRESS WIDTH PROVIDED	MINIMUM CORRIDOR WIDTH REQUIRED	CORRIDOR WIDTH PROVIDED	MAXIMUM DEAD END CORRIDOR	MAXIMUM COMMON PATH OF EGRESS TRAVEL	MAXIMUM EXIT ACCESS TRAVEL DISTANCE
		1006.2.1.1		1005.3.2 0.15" PER OCCUPANT		1020.2		1020.4	1006.2.1	1017.2
LEVEL 1	374	2	16	57"	512"	44"	60"	20'	100'	250'

PLUMBING FIXTURE REQUIREMENTS*

INTERNATIONAL PLUMBING CODE 2024

NUMBER OF OCCUPANTS	WATER CLOSETS: STANDARD	WATER CLOSETS: # REQ'D	WATER CLOSETS: # PROV'D	LAVATORIES: STANDARD	LAVATORIES: # REQ'D	LAVATORIES: # PROV'D	DRINKING FOUNTAIN: # REQ'D	DRINKING FOUNTAIN: # PROV'D	SERVICE SINK: # REQ'D	SERVICE SINK: # PROV'D
MEN										
105.5 - A-3	1 PER 125	.78	2 URINALS + 9 WCS = 10	1 PER 200	.49		1 per 100 = 4 REQ'D	4	1	2
30 - B OFFICE	1 PER 25	2.32		1 PER 40	1.45					
25 - S-1	1 PER 100	0.07		1 PER 100	0.07					
MEN TOTAL		4	10		3	7				
WOMEN										
105.5 - A-3	1 PER 65	1.5		1 PER 200	.49					
30 - B OFFICE	1 PER 25	2.32		1 PER 40	1.45					
25 - S-1	1 PER 100	0.07		1 PER 100	0.07					
WOMEN TOTAL		4	4		3	4				

*NOTE: The above does not count the (1) unisex toilet and the (2) private office toilets

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STATE OF ALABAMA
TAMMY DANIELS COHEN
REGISTRATION NO. 4168
ARCHITECT
BIRMINGHAM ALABAMA
REGISTERED ARCHITECT

JASPER WATERWORKS - NEW BUILD
3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER: 23031-A

DATE: 10/28/26

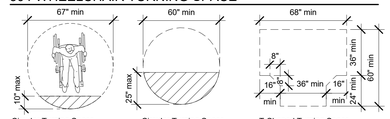
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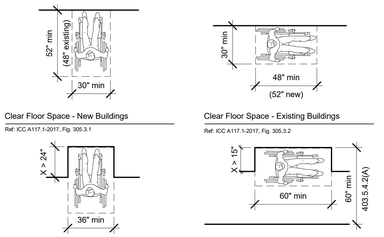
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SHEET NUMBER: G001

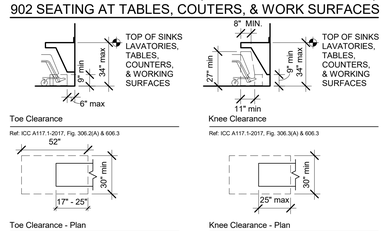
304 WHEELCHAIR TURNING SPACE



305 CLEAR FLOOR SPACE

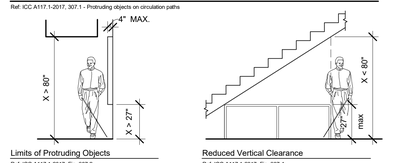


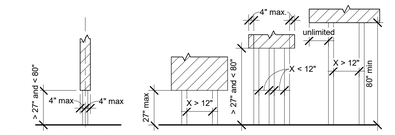
306 KNEE & TOE CLEARANCE; 606 LAVATORIES & SINKS; 902 SEATING AT TABLES, COUTERS, & WORK SURFACES



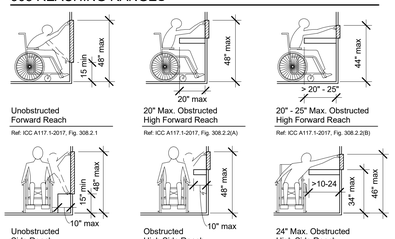
307 PROTRUDING OBJECTS

Ref: ICC A117.1-2017, 307.1 - Protruding objects on circulation paths

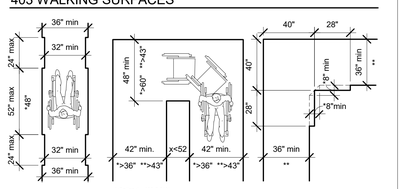




308 REACHING RANGES



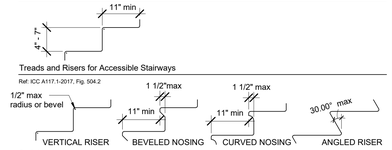
403 WALKING SURFACES



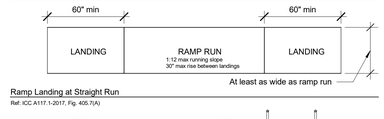
404 DOORS AND DOORWAYS



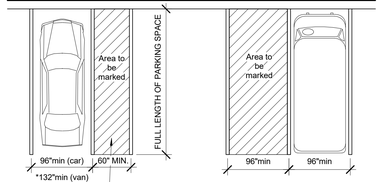
504 STAIRWAYS



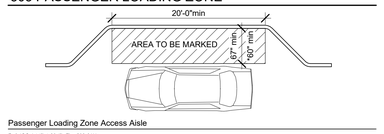
405 RAMPS



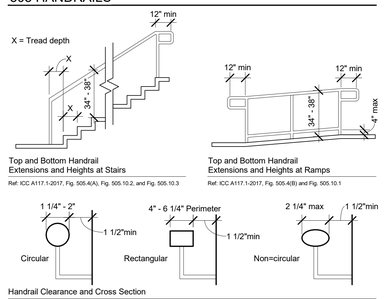
502 PARKING SPACES



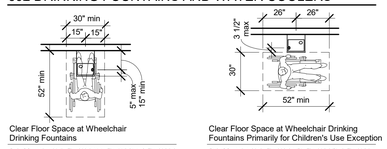
503 PASSENGER LOADING ZONE



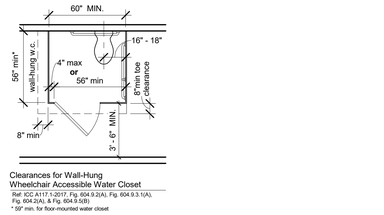
505 HANDRAILS



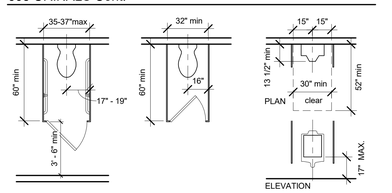
602 DRINKING FOUNTAINS AND WATER COOLERS



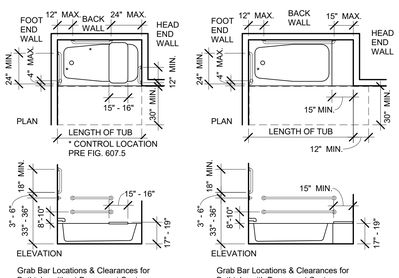
604 WATER CLOSETS,TOILET COMPARTMENTS, & 605 URINALS



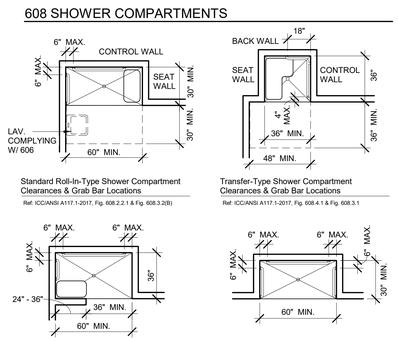
604 WATER CLOSETS,TOILET COMPARTMENTS, & 605 URINALS Cont.

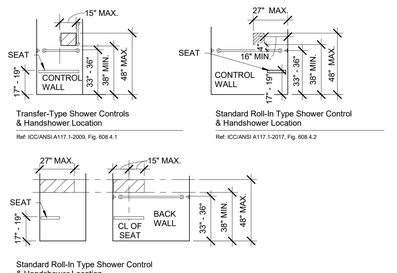


607 BATHTUBS

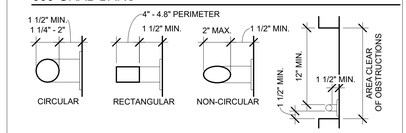


608 SHOWER COMPARTMENTS

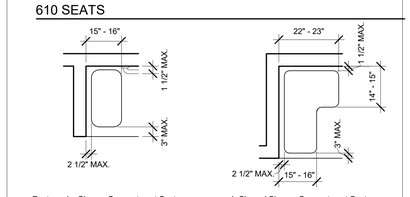




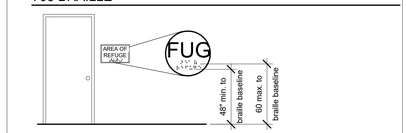
609 GRAB BARS



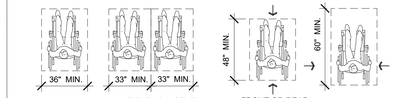
610 SEATS



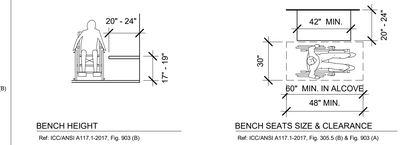
703 BRAILLE



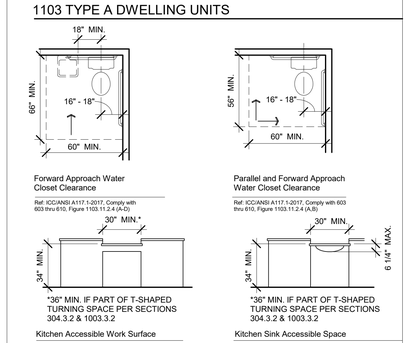
802 AUDITORIUM AND ASSEMBLY AREAS



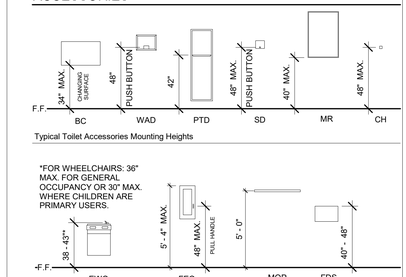
903 BENCHES



1103 TYPE A DWELLING UNITS



ACCESSORIES



ACCESSIBILITY NOTES

1. THIS SHEET IS A REFERENCE FOR GENERAL ACCESSIBILITY REQUIREMENTS FROM **ICC A117.1-2017**. SOME DETAILS MAY REFERENCE ACCESSORIES OR CONDITIONS THAT DO NOT APPLY TO THIS SPECIFIC PROJECT.
2. GENERAL CONTRACTOR TO VERIFY SHOWN DIMENSIONS WITH CURRENT REGULATIONS, LOCAL CODES, AND ORDINANCES.
3. CROSS SLOPES ON AN ACCESSIBLE ROUTE SHALL NOT EXCEED 1:48.
4. FLOOR SURFACES OF BOTH CLEAR FLOOR SPACE AND WHEELCHAIR TURNING SPACE SHALL HAVE A SLOPE NOT GREATER THAN 1:48.
5. ONE FULL UNOBSTRUCTED SIDE OF THE "CLEAR FLOOR SPACE" SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER CLEAR FLOOR SPACE.
6. ALL MINIMUM FACE OF FINISH AND/OR MINIMUM DIMENSIONS MUST TAKE INTO ACCOUNT THE THICKNESS OF THE WALL FINISHES SUCH AS CERAMIC TILE, SOLID SURFACE MATERIAL, BACKER BOARD OR ANY OTHER FINISH MATERIAL BEING USED.
7. LOCATION OF TOILET ACCESSORIES ARE SHOWN FOR REFERENCE FOR ACCESSIBILITY REQUIREMENTS ONLY. SEE DRAWINGS FOR SPECIFIC LOCATIONS AND ADDITIONAL INFORMATION.
8. URINAL FLUSH CONTROLS SHALL BE EITHER HAND OPERATED OR AUTOMATIC. THE TOP OF THE FLUSH VALVE HANDLE SHALL BE A MAXIMUM OF 46" AFF. THE FLUSH VALVE HANDLE SHALL BE ON THE MOST OPEN SIDE OF THE URINAL
9. URINAL PARTITIONS/WALLS SHALL BEGIN AT A HEIGHT NOT MORE THAN 12" AFF AND EXTEND NOT LESS THAN 60" AFF. THE WALLS OR PARTITIONS SHALL EXTEND FROM THE WALL SURFACE AT EACH SIDE OF THE URINAL A MINIMUM OF 18" OR TO A POINT NOT LESS THAN 6" BEYOND THE OUTERMOST FRONT LIP OF THE URINAL MEASURED FROM THE FINISHED BACK ALL SURFACE - WHICHEVER IS GREATER.
10. THE FLOOR AREA WITHIN THE REQUIRED MANEUVERING CLEARANCES AT DOORS SHALL BE LEVEL AND CLEAR.
11. WHERE ANY OBSTRUCTION WITHIN 18" OF THE LATCH SIDE OF THE DOOR WAY PROJECTS MORE THAT 8" BEYOND THE FACE OF THE DOOR, MANEUVERING CLEARANCE FOR A FORWARD APPROACH SHALL BE PROVIDED.
12. DASHED LINES INDICATE MANEUVERING CLEARANCES.
13. DOOR OPENINGS SHALL PROVIDE A MINIMUM CLEAR WIDTH OF 32".
14. MINIMUM CLEAR FLOOR SPACE FOR MANEUVERING CLEARANCE AT DOORS REQUIRED TO BE MAINTAINED.

STATE OF ALABAMA
TAMMY DANIELS COHEN
REGISTRATION NO. 4168
ARCHITECT
BIRMINGHAM ALABAMA
REGISTERED ARCHITECT

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
10/28/26

PRINTED / REVISIONS

#	DESCRIPTION	DATE

SHEET TITLE:
ACCESSIBILITY

SHEET NUMBER:
G002

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INTERIOR PARTITION TYPES

P1

3 5/8" METAL STUD PARTITION
GYP. BD. EACH SIDE
SOUND ATTENUATION BLANKETS

P1A

3 5/8" METAL STUD PARTITION
GYP. BD. EACH SIDE
8'-0" BALLISTIC FIBERGLASS PANEL ONE SIDE
SOUND ATTENUATION BLANKETS

P1B

1-HR RATED 3 5/8" METAL STUD PARTITION
TYPE 'X' GYP. BD. EACH SIDE
SOUND ATTENUATION BLANKETS

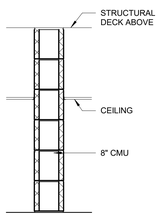
UL DESIGN U419

P2

6" METAL STUD PARTITION
GYP. BD. EACH SIDE
SOUND ATTENUATION BLANKETS

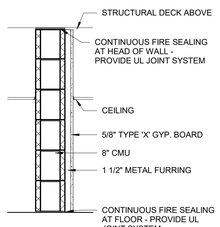
P3 1-1/2" METAL FURRING
P4 3-5/8" METAL FURRING
P4A 3-5/8" METAL FURRING W/ 8'-0" BALLISTIC FIBERGLASS PANEL
P5 6" METAL FURRING

NON-RATED FURRING WALL
TERMINATE GYP. BD. 6" ABOVE CEILING



P6

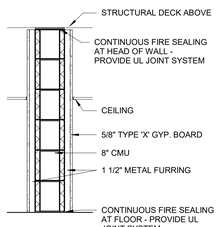
8" CMU WALL



P6A

1-HR RATED 8" CMU WALL
GYP. BD. ON 1-1/2" METAL FURRING

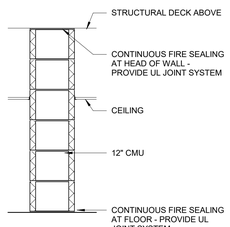
UL DESIGN U914



P6B

1-HR RATED 8" CMU WALL
GYP. BD. ON 1-1/2" METAL FURRING
BOTH SIDES

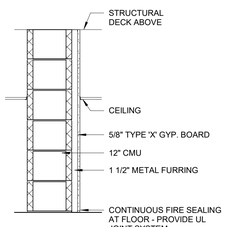
UL DESIGN U910



P7

1-HR RATED 12" CMU WALL

UL DESIGN U901



P7A

1-HR RATED 12" CMU WALL
GYP. BD. ON 1 1/2" METAL FURRING

UL DESIGN U914

NOTE:
1. ALL GYP. BD. TYPE "X" U.N.O.
2. PROVIDE CONTROL JOINTS IN GYP BD. WALLS AT 30' MAX - PREFERABLY ABOVE DOOR FRAMES.
3. PROVIDE MOISTURE RESISTANT GYPSUM BOARD IN ALL WET AREAS AND WHEREVER NOTED ON DWGS.
4. SEE STRUCTURAL FOR STUD SPACING AND SHEAR WALLS - TYP.
5. ALL OUTSIDE CORNERS AND WING WALLS OF EXPOSED CMU PARTITIONS TO HAVE BULLNOSE CORNERS.
6. DIMENSIONS OF FRAMED WALLS ARE GIVEN TO ONE FACE OF THE STUD.
7. DIMENSIONS OF MASONRY WALLS ARE GIVEN TO ONE FACE OF THE MASONRY.

EXTERIOR WALL INSULATION REQUIREMENTS 2024 - IECC
EXTERIOR METAL FRAMED OFFICE WALLS
R-0 + R-12.6ci
R-13 + R-7.5ci
R-20 + R-6.3ci

METAL BUILDING
R-13 + R-6.5ci

WALL & PARTITION TYPE NOTES:

1. REFER TO G003 FOR INTERIOR PARTITION TYPES.
2. INTERIOR PARTITIONS TO BE **P1** U.N.O.
3. SEE INTERIOR ELEVATIONS AND INTERIOR FINISH SCHEDULES FOR WALL FINISH MATERIALS NOT SHOWN IN WALL TYPE DRAWINGS OR SCHEDULES. EXAMPLES OF WALL FINISH MATERIAL NOT SHOWN HERE INCLUDES, BUT IS NOT LIMITED TO: WALL TILE, WAINSCOT, AND SPECIAL TRIM.
4. SEE INTERIOR FINISH NOTES FOR BASE MATERIALS NOT SHOWN IN WALL TYPE DRAWINGS.
5. PAINT ALL GYPSUM BOARD, UNLESS NOTED OTHERWISE.
6. AT CMU WALLS AND PARTITIONS, SEE STRUCTURAL FOR SPACING OF GROUTED CELLS.
7. AT CMU WALLS AND PARTITIONS, SEE STRUCTURAL FOR SPACING AND TYPE OF HORIZONTAL AND VERTICAL REINFORCING.
8. PROVIDE GYPSUM BOARD CONTROL JOINTS AT 30' O.C. MAX, PER MANUFACTURER'S RECOMMENDATIONS, OR PER WRITTEN SPECIFICATIONS, WHICHEVER IS MOST STRINGENT. WHERE POSSIBLE LOCATE CONTROL JOINTS ABOVE DOOR FRAMES.
9. PROVIDE BLOCKING FOR ALL REQUIRED ITEMS SUCH AS, BUT NOT LIMITED TO: PLUMBING FIXTURES, TOILET ACCESSORIES, ACCESS PANELS, TELEVISIONS, DRINKING FOUNTAINS, AND WALL HUNG COUNTERS AND CABINETRY. BLOCKING SHALL COMPLY WITH REQUIREMENTS FOR NOTED FIRE RATED ASSEMBLIES.
10. PROVIDE MOISTURE RESISTANT GYPSUM BOARD WHERE GYPSUM BOARD IS NOTED IN TOILETS, CLOSETS, SHOWERS, TUBS, AND OTHER AREAS SUBJECT TO MOISTURE.
11. WHERE TILE OR FIBERGLASS REINFORCED PANELS ARE USED ON METAL STUD WALLS, PROVIDE CEMENTIOUS BACKER BOARD OR WATER-RESISTANT CORE GYPSUM BOARD BETWEEN TILE AND WALL.
12. AT METAL STUD WALLS, USE STUD GAUGES AND SPACING THAT MEET THE MOST STRINGENT OF THE FOLLOWING REQUIREMENTS: FIRE RATED TESTING, SPECIFIED REFERENCE STANDARDS, AND MANUFACTURER'S REQUIREMENTS.
13. ALL WALLS CONTAINING PLUMBING OR HAVING AN EXTERIOR FACE SHALL BE INSULATED.
14. ALL ROOMS WITH METAL STUD FRAMING SHALL HAVE THEIR PERIMETER PARTITIONS INSULATED WITH SOUND ATTENUATION BATTS.
15. ALL ROOMS WITH CEILINGS, EXCLUDING CORRIDORS, STORAGE, AND JANITOR'S CLOSETS, SHALL HAVE SOUND ATTENUATION BATT INSULATION PLACED ON TOP OF THEIR CEILING. **OR** HAVE THEIR WALLS WITH SOUND ATTENUATION BATT INSULATION EXTEND TO THE STRUCTURAL DECK ABOVE.
16. ALL FIRE OR SMOKE RATED WALLS SHALL EXTEND FROM TOP OF SLAB TO UNDERSIDE OF STRUCTURE. SEAL TOP AND BOTTOM AS REQUIRED BY NOTED FIRE RATED ASSEMBLY, TYPICAL.
17. ALL INTERIOR ROOF DRAINS AND OVERFLOW DRAINS SHALL BE WRAPPED CONTINUOUSLY WITH SOUND ATTENUATION INSULATION.
18. INSTALL FRAMING AND GYPSUM WALL BOARD TO OFFSET AROUND STRUCTURAL MEMBERS OR OTHER OBSTRUCTIONS TO MAINTAIN FIRE RESISTIVE RATINGS.
19. WHERE GYPSUM WALL BOARD EXTENDS TO THE UNDERSIDE OF STRUCTURE, STOP GYPSUM WALL BOARD 1/2" BELOW LINE OF STRUCTURE AND SEAL. WHERE WALL IS FIRE RATED, SEALING SHALL BE PER FIRE RATED ASSEMBLY REQUIREMENTS.
20. SEALANT USED FOR EACH WALL AND WALL PENETRATIONS SHALL BE PER THE REQUIREMENTS OF THE NOTED FIRE OR SMOKE RATED WALL/ PARTITION REQUIREMENTS.
21. NON-RATED PARTITIONS SHALL BE INSTALLED WITH ACOUSTICAL SEALANT, UNLESS NOTED OTHERWISE.
22. REFER TO MECHANICAL AND PLUMBING FOR REQUIREMENTS OF MECHANICAL AND PLUMBING PENETRATIONS THROUGH ACOUSTICAL AND RATED PARTITIONS.
23. DO NOT INSTALL GYPSUM WALL BOARD IN DIRECT CONTACT WITH THE FLOOR. ALL GYPSUM BOARD/ FLOOR JUNCTION, SHIM 1/2" OFF THE FLOOR WITH NON-POROUS SHIMS. PLASTIC NON-POROUS HORSESHOE SHIMS ARE RECOMMENDED. GYPSUM WALL BOARD SHIMS ARE NOT ACCEPTABLE.

STATE OF ALABAMA
TAMMY DANIELS COHEN
REGISTRATION NO. 4168
ARCHITECT
BIRMINGHAM ALABAMA
REGISTERED ARCHITECT

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
10/28/26

PRINTED / REVISIONS

#	DESCRIPTION	DATE

SHEET TITLE:
PARTITION SCHEDULE

SHEET NUMBER:
G003

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PROJECT NOTES

STANDARD PROJECT NOTES

1. SPECIFIC DEMOLITION, GRADING, DRAINAGE, UTILITY, ETC. NOTES ARE SHOWN ON THE RESPECTIVE CIVIL PLAN SHEETS WITHIN THIS CIVIL PLAN SET. PROJECT NOTES ON EACH CIVIL PLAN SHEET APPLY TO THE ENTIRE CIVIL PLAN SET. PROJECT NOTES ON EACH SHEET ARE NOT EXCLUSIVE TO THE WORK SHOWN ON THAT SHEET. EACH NOTE APPLIES TO ALL WORK OF ITS KIND SHOWN WITHIN THE ENTIRE PLAN SET, REGARDLESS OF WHICH SHEET IT IS INCLUDED ON.

2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL THE APPLICABLE PERMITTING AUTHORITIES.

3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, AND THE CODES, REGULATIONS, AND STANDARDS OF ALL APPLICABLE GOVERNING AUTHORITIES.

4. THE GENERAL CONTRACTOR SHALL VERIFY THAT ALL EXISTING TOPOGRAPHY AND HORIZONTAL GEOMETRY IS AS INDICATED ON THESE DRAWINGS. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGES OR REPAIR TO THESE FACILITIES CAUSED BY THE CONTRACTOR'S WORK FORE. IMMEDIATELY NOTIFY THE OWNERS REPRESENTATIVE OF ANY DISCREPANCIES OF INTERFERENCE WHICH AFFECT THE WORK OF THIS CONTRACT.

5. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES. DO NOT ALLOW WATER TO STAND OR POND. ANY DAMAGE TO STRUCTURES OR WORK ON THE SITE CAUSED BY INADEQUATE MAINTENANCE OF DRAINAGE PROVISIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ANY COST ASSOCIATED WITH REPAIRS FOR SUCH DAMAGE WILL BE AT THE CONTRACTORS EXPENSE.

6. ALL WASTE MATERIAL SHALL BE PROPERLY DISPOSED OF OFF-SITE OR AS DIRECTED BY THE OWNERS REPRESENTATIVE AND IN ACCORDANCE WITH JURISDICTIONAL AUTHORITIES.

7. ANY PROPERTY DAMAGE CAUSED BY THE CONTRACTOR OR HIS OPERATIONS SHALL BE CORRECTED AND/OR RESTORED TO THE SATISFACTION OF THE OWNERS REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.

8. IN THE CASE OF CONFLICT BETWEEN THIS DRAWING AND ANY OTHER DRAWING AND/OR SPECIFICATIONS, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR CLARIFICATION.

9. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADE, WARNING SIGNS, FLASHING LIGHTS AND TRAFFIC CONTROL DEVICES DURING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND SAFETY REQUIREMENTS.

10. ALL DISTURBED AREAS WILL BE PLANTED WITH A PERMANENT GRASS MIXTURE UPON COMPLETION OF CONSTRUCTION TO MINIMIZE EROSION. THE DISTURBED AREA WILL BE SEEDED AND MULCHED.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ATTAINING A.D.E.M. GENERAL STORM WATER PERMIT COVERAGE TO COVER THE STORM WATER DISCHARGES ASSOCIATED WITH THE PROPOSED CONSTRUCTION ACTIVITY. THE TOTAL PERMIT ACREAGE COVERED UNDER THE PERMIT WILL BE 11.5 ACRES WITH THE TOTAL DISTURBED ACREAGE BEING APPROXIMATELY 6.0 ACRES +/-.

12. ACCORDING TO THE FLOOD INSURANCE RATE MAP PUBLISHED BY FEMA - FIRM MAP PANEL NO. 01127C0340E EFFECTIVE OCTOBER 02, 2014. THIS SITE LIES WITHIN FLOOD ZONE X.

13. THE CURRENT ZONING IS: COMMERCIAL B4 (I-22 BUSINESS CORRIDOR) DISTRICT

14. THE PROPOSED LAND USE: COMMERCIAL

15. EXISTING SITE CONDITIONS SHALL BE VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY DIFFERENCES FROM THE PLAN THAT WILL AFFECT CONSTRUCTION IN WRITING TO THE PROJECT MANAGER AND AWAIT FURTHER INSTRUCTIONS.

16. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL REVIEW ALL PLANS AND SPECIFICATIONS AND THE JOB SITE. THE CONTRACTOR SHALL NOTIFY THE OWNER AND PROJECT MANAGER OF ANY DISCREPANCIES THAT MAY REQUIRE MODIFICATIONS TO THESE PLANS OR OF ANY FIELD CONFLICTS.

17. GENERAL QUANTITIES ARE PROVIDED IN THE PLANS. HOWEVER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DO THEIR OWN TAKE OFF AND CALCULATE CONTRACTOR'S OWN QUANTITIES BASED ON CONTRACTOR'S REVIEW OF THE PLANS AND DEVELOP AN ACCURATE BID . IF ANY DISCREPANCIES ARE FOUND WITHIN THE PLAN QUANTITIES, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER.

18. ANY CHANGES OR REVISIONS MADE TO THE SITE PLANS SHALL BE SUBMITTED FOR APPROVAL TO THE PROJECT MANAGER, PROJECT ENGINEER AND ALL OTHER PERTINENT AGENCIES.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING OR OBTAINING ANY AND ALL NECESSARY CONSTRUCTION EASEMENTS PRIOR TO ACCESSING OR PERFORMING ANY ACTIVITIES ON PROPERTIES OUTSIDE OF THE OWNER'S PROPERTY AND/OR CITY, COUNTY, AND ALDOT R.O.W.'S.

1. UTILITY CONTACTS ARE AS FOLLOWS:

ALABAMA POWER COMPANY
2501 HWY 78 WEST
JASPER, AL 35501
(800) 245-2244

AT&T
1905 HWY 78 WEST
JASPER, AL 35501
PHONE: (205) 221-9047
FAX: (205) 221-9074

CITY OF JASPER
400 WEST 19TH STREET
JASPER, AL 35501
PHONE: (205) 221-2100

JASPER WATER WORKS AND SEWER BOARD
1620 ALABAMA AVENUE
JASPER, AL 35501
PHONE: (205) 221-2141

SPIRE
214 IRONWOOD CT
JASPER, AL 3550
PHONE: (800) 292-4008

2. ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATION AND MAKE ALL NECESSARY ARRANGEMENTS WITH PRIVATE AND PUBLIC UTILITY COMPANIES TO AVOID ANY POSSIBLE DAMAGE TO OR INTERRUPTION OF UTILITY EQUIPMENT OR SERVICE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INQUIRIES CONCERNING LOCATION OF UTILITIES.

3. DETERMINING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY. BEFORE COMMENCING WORK, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ALABAMA 811 SYSTEM AND CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA. PROVIDE 72 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER, PROJECT MANAGER AND ENGINEER ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COSTS INCURRED BECAUSE OF THE CONTRACTOR'S OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF THE SAME. SCHEDULE AND EXECUTE ALL WORK INVOLVING EXISTING UTILITIES IN ORDER TO MINIMIZE INTERRUPTION OF SERVICES. WHENEVER SUCH INTERRUPTION IS NECESSARY FOR COMPLETION OF THE WORK, NOTIFY THE PROJECT MANAGER AND OWNER AT LEAST 48 HOURS IN ADVANCE. ALL WORK TO REPAIR/RESTORE UTILITY SERVICE SHALL BE PERFORMED AS REQUIRED BY THE APPROPRIATE UTILITY. IF IT IS NECESSARY TO SHORE, BRACE, OR SWING A UTILITY, CONTACT THE UTILITY COMPANY OR DEPARTMENT AFFECTED AND OBTAIN THEIR PERMISSION REGARDING THE METHOD TO USE FOR SUCH WORK. ALL COSTS RELATED TO SERVICE, MAINTENANCE, INTERRUPTION, REPAIR, RELOCATION AND RESTORATION ARE TO BE INCLUDED IN THE CONTRACTOR S BID. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION SHALL BE PAID.

PROPOSED CONSTRUCTION SCHEDULE

PROPOSED CONSTRUCTION START DATE: 07-01-2026

PROPOSED CONSTRUCTION END DATE: 05-01-2027

1. INSTALL ALL REQUIRED BEST MANAGEMENT PRACTICES (BMP), INCLUDING DETENTION PONDS, PRIOR TO COMMENCING ANY SURFACE DISTURBANCE OR CONSTRUCTION ACTIVITIES.

2. SITE WORK WILL COMMENCE, WHICH WILL INVOLVE THE CLEARING AND GRADING OF THE PROPOSED BUILDING STRUCTURES, DRIVES & PARKING AREAS (WHERE APPLICABLE).

3. FOUNDATION WORK WILL BEGIN, WHICH WILL CONSIST OF THE DIGGING OF THE FOUNDATION AND PREPPING FOR CONCRETE.

4. HVAC, ELECTRICAL, PLUMBING, AND ANY ADDITIONAL APPLICABLE DISCIPLINES WILL START WORK ON THEIR SPECIFIC JOB RELATED ACTIVITIES.

5. COMPLETION OF THE GROUND WORK AND CONSTRUCTION OF THE BUILDING STRUCTURE WILL BEGIN AND BE FOLLOWED BY THE ASPHALT PAVING OF THE DRIVES AND ADJACENT PARKING LOTS IN ADDITION TO THE CURB AND GUTTER INSTALLATION (WHERE REQUIRED).

ALL DATES AND TIMELINES ARE SUBJECT TO CHANGE.

EROSION AND SEDIMENTATION CONTROL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ATTAINING A.D.E.M. GENERAL STORM WATER PERMIT COVERAGE TO COVER THE STORM WATER DISCHARGES ASSOCIATED WITH THE PROPOSED CONSTRUCTION ACTIVITY. THE TOTAL PERMIT ACREAGE COVERED UNDER THE PERMIT WILL BE 11.5 ACRES WITH THE TOTAL DISTURBED ACREAGE BEING APPROXIMATELY 6.0 ACRES +/-.

2. GENERAL ESC PLANS, INCLUDING ESC CALCULATIONS, ESC MEASURES, AND ESC DETAILS HAVE BEEN PREPARED AND ARE SHOWN IN THE PLANS. ANY NECESSARY ADDITIONAL CALCULATIONS, ESC MEASURES, AND THE ESC DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE "ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS", PREPARED BY THE SOIL AND WATER CONSERVATION COMMITTEE, OR OTHER ACCEPTABLE CALCULATION PROCEDURES.

3. A COPY OF THE ACCEPTED EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE ON FILE AT THE JOB SITE. COPIES OF ALL MONTHLY REPORTS AND ALL ACCIDENTAL DISCHARGE REPORTS, AS SUBMITTED TO ADEM, MUST ALSO BE KEPT ON-SITE AND MUST BE AVAILABLE FOR INSPECTION BY THE DIRECTOR OR HIS/HER DESIGNEE.

4. THE PERSON(S) PROPOSING TO CONDUCT ANY LAND DISTURBING ACTIVITY, AN AGENT, CONTRACTOR, OR OTHER REPRESENTATIVE OF SUCH PERSON, MUST CONTACT THE DEPARTMENT AT LEAST FIVE (5) BUSINESS DAYS BEFORE THE COMMENCEMENT OF SUCH LAND DISTURBING ACTIVITY, TO ADVISE THE DIRECTOR AND HIS/HER DESIGNEE OF THE COMMENCEMENT OF THE LAND DISTURBING ACTIVITY. THE DIRECTOR OR HIS/HER DESIGNEE MAY, FOR GOOD CAUSE, ALLOW SUCH PERSON, AGENT, CONTRACTOR, OR OTHER REPRESENTATIVE TO CONTACT HIM/HER NEARER TO THE DATE OF THE COMMENCEMENT OF THE LAND DISTURBING.

5. THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE WHICH CAN BE RETAINED BY VEGETATIVE COVER, OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. ANY SLOPE OR FILL WHICH HAS BEEN GRADED SHALL, WITHIN FOURTEEN (14) DAYS OF THE COMPLETION OF SUCH GRADING, OR THE COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH GROUND COVER, MATERIALS, DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. THE BMP'S SHALL REMAIN IN PLACE IN ACCORDANCE WITH THE BMP PLAN UNTIL THE GRADED SLOPE OR FILL IS STABILIZED.

6. ADEQUATE PROTECTIVE MEASURES SHALL BE PROVIDED FOR THE CONTAINMENT OF HAZARDOUS SUBSTANCES AND ANY OTHER MATERIALS. PETROLEUM PRODUCTS, LUBRICANTS, PAINTS AND ALL OTHER HAZARDOUS SUBSTANCES SHALL BE STORED IN ACCORDANCE WITH SPCC REGULATIONS. THESE SUBSTANCES SHALL BE STORED AWAY FROM ALL STORM DRAINS, DITCHES AND GUTTERS IN WATER TIGHT CONTAINERS. DISPOSAL OF THESE MATERIALS SHALL BE IN ACCORDANCE WITH ADEM REGULATIONS. CONTRACTORS SHALL PROVIDE ADEQUATE TRASH CONTAINERS, ON SITE, FOR DISPOSAL OF CONSTRUCTION MATERIALS AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING TRASH FROM THE SITE TO ENTER INTO THE STORM DRAINAGE SYSTEM.

7. ALL CONTROL MEASURES SHALL BE CHECKED, AND REPAIRED AS NECESSARY, MONTHLY IN DRY PERIODS AND WITHIN TWENTY-FOUR (24) HOURS AFTER ANY RAINFALL AT THE SITE OF 0.75 INCHES, WITHIN A TWENTY-FOUR (24) HOUR PERIOD. DURING PROLONGED RAINFALLS, DAILY CHECKING AND, IF NECESSARY, REPAIRS SHALL BE MADE. THE PERMITTEE SHALL MAINTAIN WRITTEN RECORDS OF SUCH CHECKS AND REPAIRS AND THOSE RECORDS SHALL BE SUBJECT TO THE INSPECTION OF THE DIRECTOR OR HIS/HER DESIGNEE AT ANY REASONABLE TIME.

8. ALL POTENTIALLY HAZARDOUS MATERIALS SHALL BE PROPERLY STORED AND MAY NOT BE EXPOSED TO RAIN OR STOCKPILED. ALL CONTAINERS ARE TO BE CLOSED AND STORED OR PLACED IN A COVERED AREA. ALL EXCESS OR WASTE MATERIALS ARE TO BE PROPERLY DISPOSED OF AND TRASH AND WASTE MUST BE DISPOSED OF EVERY TEN (10) DAYS, AT A MINIMUM.

9. EROSION CONTROL MEASURES SHALL BE MAINTAINED AS AN EFFECTIVE BARRIER TO SEDIMENTATION AND EROSION IN ACCORDANCE WITH THE PROVISIONS OF THIS ORDINANCE.

10. SEDIMENT DEPOSITS MUST BE REMOVED WHEN THEY REACH A DEPTH OF 15 INCHES OR ½ THE HEIGHT OF THE SILT FENCE AS INSTALLED, TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE THE PRESSURE ON THE SILT FENCING.

11. SILT FENCING FABRIC THAT IS COLLAPSED, TORN, DECOMPOSING, OR BECOMES INEFFECTIVE MUST BE REPLACED PROMPTLY.

12. THERE SHALL BE NO DISTINCTLY VISIBLE FLOATING SCUM, OIL, OR OTHER MATTER CONTAINED IN THE STORM WATER DISCHARGE. THE STORM WATER DISCHARGE TO AN MS4 MUST NOT CAUSE AN UNNATURAL COLOR (EXCEPT DYES OR OTHER SUBSTANCES DISCHARGED TO AN MS4 FOR THE PURPOSE OF ENVIRONMENTAL STUDIES AND WHICH DO NOT HAVE A HARMFUL EFFECT ON THE BODIES OF WATER WITHIN THE MS4) OR ODOR IN THE COMMUNITY WATERS. THE STORM WATER DISCHARGE TO THE MS4 MUST RESULT IN NO MATERIALS IN CONCENTRATIONS SUFFICIENT TO BE HAZARDOUS OR OTHERWISE DETRIMENTAL TO HUMANS, LIVESTOCK, WILDLIFE, PLANT LIFE OR FISH AND AQUATIC LIFE IN THE COMMUNITY WATERS.

13. WHEN THE LAND DISTURBING ACTIVITY IS FINISHED AND STABLE VEGETATION OR OTHER PERMANENT CONTROLS HAVE BEEN ESTABLISHED ON ALL REMAINING EXPOSED SOIL, THE OWNER OF THE LAND WHERE THE LAND DISTURBING ACTIVITY WAS CONDUCTED, OR HIS/HER AUTHORIZED AGENT, SHALL NOTIFY THE DEPARTMENT OF THESE FACTS AND REQUEST A FINAL INSPECTION. THE DEPARTMENT SHALL THEN INSPECT THE SITE WITHIN FIVE (5) WORKING DAYS AFTER RECEIPT OF THE NOTICE.

14. A CERTIFICATE OF OCCUPANCY (CO) OR A CERTIFICATE OF COMPLETION WILL NOT BE GRANTED UNTIL THE LAND DISTURBING ACTIVITY IS FINISHED, STABLE VEGETATION OR OTHER PERMANENT CONTROLS HAVE BEEN ESTABLISHED ON ALL EXPOSED SOIL, AND A FINAL INSPECTION HAS BEEN PERFORMED.

TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY TRAFFIC CONTROL DEVICES FOR ALL ROADWAY OR DRIVEWAY CONSTRUCTION LOCATED ALONG COUNTY MAINTAINED ROADS IN ACCORDANCE WITH THE APPROVED PLANS AND THE LATEST EDITION OF THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PART 6.

2. PERMANENT ROADWAY SIGNS OR TEMPORARY CONSTRUCTION SIGNS WHICH ARE NOT APPLICABLE OR INAPPROPRIATE FOR THE PREVAILING CONDITIONS SHALL BE COVERED OR REMOVED.

3. THE DIMENSIONS SHOWN OR SPECIFIED FOR LOCATING CONSTRUCTION SIGNS ARE NOMINAL. THE SIGNS SHALL BE LOCATED TO BEST FIT EXISTING CONDITIONS AND PROVIDE MAXIMUM VISIBILITY TO MOTORISTS.

4. THE CONTRACTOR SHALL TAKE EVERY REASONABLE PRECAUTION TO PROVIDE FOR THE SAFETY OF THE TRAVELING PUBLIC AND THE WORKERS ON SITE. IF CONDITIONS ARE FOUND TO BE HAZARDOUS BY COUNTY PERSONNEL, THE CONTRACTOR SHALL IMMEDIATELY TAKE REMEDIAL ACTION TO ELIMINATE THE HAZARDOUS CONDITIONS.

5. IF CONSTRUCTION OPERATIONS ARE WITHIN TWO FEET OF THE TRAVEL LANE OF AN OPEN ROAD, IT WILL BE NECESSARY TO CLOSE THE LANE IN ACCORDANCE WITH THE PLANS AND MUTCD RECOMMENDATIONS, UNLESS OTHERWISE APPROVED BY THE AHJ.

6. THE CONTRACTOR SHALL KEEP OPEN ROADWAYS CLEAN AND FREE OF CONSTRUCTION DEBRIS, DIRT, LOOSE GRAVEL, OR OTHER OBJECTIONABLE MATERIAL THAT MAY CAUSE HAZARDOUS DRIVING CONDITIONS.

7. TRAFFIC CONTROL DEVICES SHALL BE IN GOOD CONDITION AND MEET THE STANDARD MATERIAL AND INSTALLATION REQUIREMENTS SPECIFIED IN THE LATEST EDITIONS OF THE ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND STANDARD AND SPECIAL DRAWINGS. CONSTRUCTION SIGN RETRO-REFLECTIVITY SHALL MEET MUTCD STANDARDS.

8. ROADWAYS AND DRIVEWAYS SHALL REMAIN OPEN DURING CONSTRUCTION, UNLESS THE CLOSURE IS MADE PART OF THE PLANS OR IS APPROVED BY THE AHJ.

9. TRAVEL LANES MAY NOT BE REDUCED TO LESS THAN 10 FEET. IF CONSTRUCTION LIMITS ABUT OR ENCROACH ON THE TRAVEL LANE OF A ROAD OPEN TO TRAFFIC, IT WILL BE NECESSARY TO CLOSE THE LANE IN ACCORDANCE WITH THE PLANS AND MUTCD TYPICAL APPLICATIONS, UNLESS OTHERWISE APPROVED BY THE AHJ.

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PROJECT:
NEW FACILITY ON INDUSTRIAL PARKWAY
JASPER, ALABAMA
JASPER WATERWORKS & SEWER BOARD

ALABAMA REGISTERED No. 35627 PROFESSIONAL ENGINEER ZAC MCGEHEE 04/28/2026

SENIOR ENGINEER
C.W. McGehee, P.E.
PROJECT MANAGER
Zac McGehee, P.E., P.L.S.
PROJECT ENGINEER (DESIGN)
Brady Pugh, P.E.

DATE	
INITIAL	04/17/2026
Rv. 1	04/28/2026
Rv. 2	
Rv. 3	

SHEET TITLE

PROJECT NOTES

SHEET NUMBER

C0.0

1 OF 18

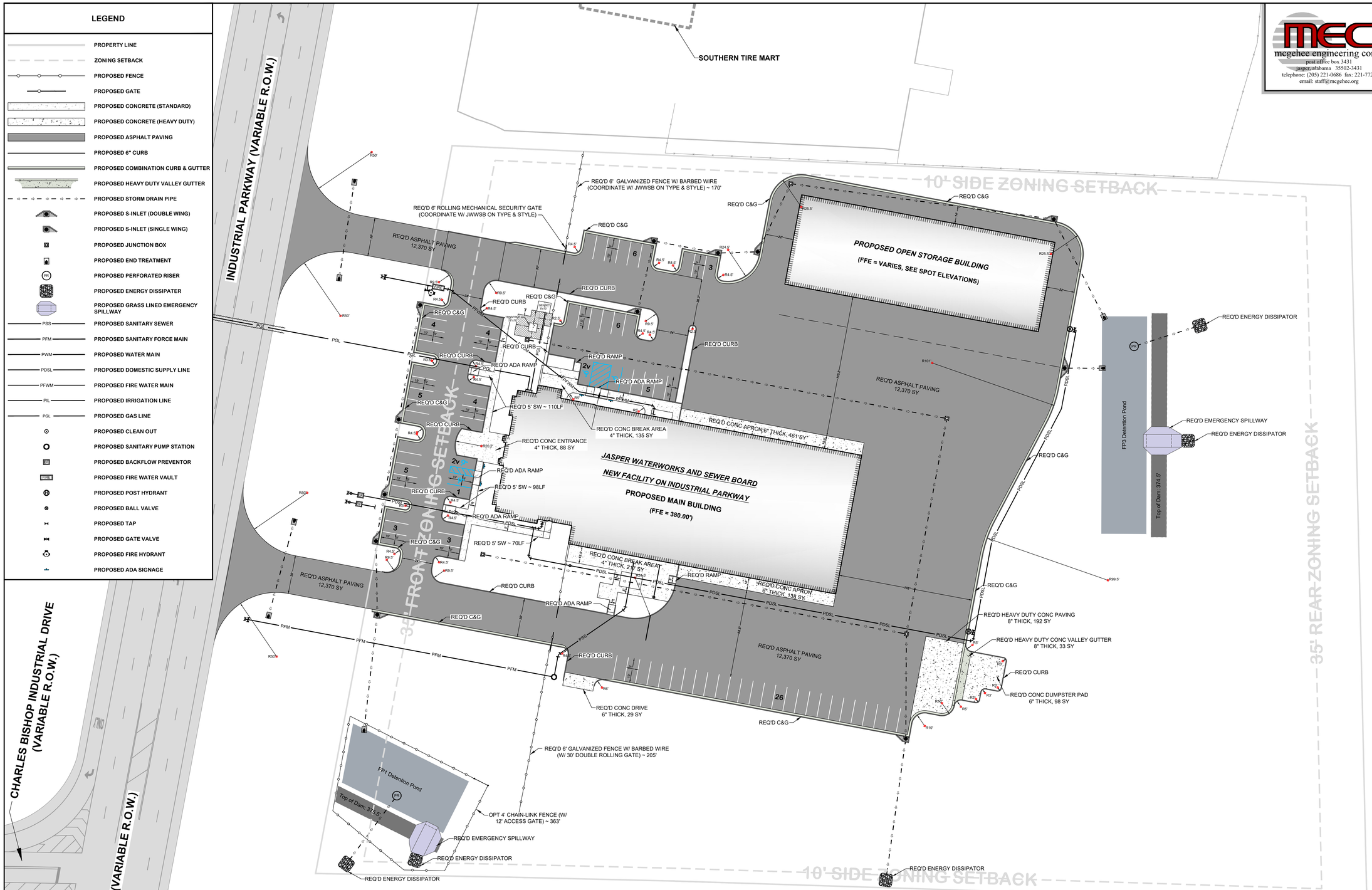
N W E S

HORIZONTAL SCALE
0' N/A N/A

VERTICAL SCALE
0' N/A N/A

LEGEND

- PROPERTY LINE
- ZONING SETBACK
- PROPOSED FENCE
- PROPOSED GATE
- PROPOSED CONCRETE (STANDARD)
- PROPOSED CONCRETE (HEAVY DUTY)
- PROPOSED ASPHALT PAVING
- PROPOSED 6" CURB
- PROPOSED COMBINATION CURB & GUTTER
- PROPOSED HEAVY DUTY VALLEY GUTTER
- PROPOSED STORM DRAIN PIPE
- PROPOSED S-INLET (DOUBLE WING)
- PROPOSED S-INLET (SINGLE WING)
- PROPOSED JUNCTION BOX
- PROPOSED END TREATMENT
- PROPOSED PERFORATED RISER
- PROPOSED ENERGY DISSIPATER
- PROPOSED GRASS LINED EMERGENCY SPILLWAY
- PSS — PROPOSED SANITARY SEWER
- PFM — PROPOSED SANITARY FORCE MAIN
- PWM — PROPOSED WATER MAIN
- PDSL — PROPOSED DOMESTIC SUPPLY LINE
- PFWM — PROPOSED FIRE WATER MAIN
- PIL — PROPOSED IRRIGATION LINE
- PGL — PROPOSED GAS LINE
- PROPOSED CLEAN OUT
- PROPOSED SANITARY PUMP STATION
- PROPOSED BACKFLOW PREVENTOR
- FVBE — PROPOSED FIRE WATER VAULT
- PROPOSED POST HYDRANT
- PROPOSED BALL VALVE
- PROPOSED TAP
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ADA SIGNAGE



GENERAL NOTES

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH OSHA, ADA, ASTM, ETC. AND IN ACCORDANCE WITH ANY AHJ STANDARD SPECIFICATIONS/ORDINANCES.
2. CONTRACTOR AND/OR DEVELOPER ARE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS, AND WATERWAYS. BMP'S MUST BE IN-PLACE PRIOR TO BEGINNING CONSTRUCTION.
3. CONTRACTOR AND/OR DEVELOPER ARE RESPONSIBLE FOR PROVIDING A BUILDING SITE FREE OF DRAINAGE PROBLEMS.
4. CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING A PROPER TRAFFIC CONTROL PLAN FOR PUBLIC SAFETY ADJACENT TO CONSTRUCTION SITE. THE TRAFFIC CONTROL PLAN MUST BE IN ACCORDANCE WITH THE LATEST MUTCD EDITION.
5. ALL UTILITIES WITHIN ROADWAY SHALL BE BACKFILLED WITH STONE.
6. UNDERGROUND UTILITIES SHOWN WERE LOCATED BY SURFACE VISIBILITY, MAPS AND MARKINGS PROVIDED BY UTILITY COMPANIES AND 811 LINE LOCATORS. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
7. NO CONSTRUCTION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEW ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL PERMITTING AUTHORITIES.
8. ALL EXISTING AND REQUIRED RIGHT OF WAYS AND EASEMENTS ARE SHOWN ON CONSTRUCTION PLANS. STRUCTURES SUCH AS WALLS, SIGNS, FENCES, BUILDINGS, ETC. OR PLANTS SUCH AS TREES OR SHRUBS SHALL NOT BE PLACED IN THE RIGHT OF WAYS OR EASEMENTS WITHOUT PROPER APPROVAL.
9. IN CASE OF CONFLICT BETWEEN THIS DRAWING AND ANY OTHER DRAWING AND/OR SPECIFICATIONS, THE PROJECT MANAGER SHALL BE IMMEDIATELY NOTIFIED FOR CLARIFICATION.
10. ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL AND PLANTED WITH A PERMANENT GRASS MIXTURE UPON COMPLETION OF CONSTRUCTION TO MINIMIZE EROSION.
11. DO NOT SCALE THIS DRAWING, AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.
12. GENERAL QUANTITIES ARE PROVIDED THROUGHOUT THE PLANS. HOWEVER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DO THEIR OWN TAKE OFF AND CALCULATE CONTRACTOR'S OWN QUANTITIES BASED ON CONTRACTOR'S REVIEW OF THE PLANS AND DEVELOP AN ACCURATE BID. IF ANY DISCREPANCIES ARE FOUND WITHIN THE GENERAL PLAN QUANTITIES, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER.

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PROJECT:

NEW FACILITY ON INDUSTRIAL PARKWAY

JASPER, ALABAMA

JASPER WATERWORKS & SEWER BOARD

ALABAMA REGISTERED No. 35027 PROFESSIONAL ENGINEER ZAC MCGEHEE 05/11/2026

SENIOR ENGINEER
C.W. McGehee, P.E.
PROJECT MANAGER
Zac McGehee, P.E., P.L.S.
PROJECT ENGINEER (DESIGN)
Brady Pugh, P.E.

DATE	
INITIAL	04/17/2026
Rv. 1	04/28/2026
Rv. 2	05/11/2026
Rv. 3	07/01/2026

SHEET TITLE

SITE PLAN

SHEET NUMBER

C1.0

2 OF 18

N W E S

HORIZONTAL SCALE 0' 30' 60'

VERTICAL SCALE 0' N/A N/A



EXISTING PLAN VIEW & DEMOLITION NOTES

1. EXISTING AND PROPOSED CONTOURS/SPOT ELEVATIONS ARE FINISHED SURFACE ELEVATIONS. THE GRADING CONTRACTOR SHALL DEDUCT PAVEMENT AND TOPSOIL THICKNESS FOR SUBGRADE ELEVATIONS AS MAY BE APPLICABLE DURING CONSTRUCTION.
2. ALL EARTHWORK, GRADING AND FOUNDATION WORK SHALL CONFORM TO THE REQUIREMENTS AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
3. GENERAL CLEARING & GRUBBING, DEMOLITION, REMOVAL, RELOCATION AND/OR REPLACEMENT OF EXISTING STRUCTURES, SURFACES & UTILITIES ARE SHOWN IN THE PLANS. HOWEVER, THE CONTRACTOR SHALL REMOVE, DEMOLISH, CLEAR & GRUB, REPLACE AND/OR RELOCATE ALL AREAS & EXISTING STRUCTURES, SURFACES & UTILITIES AS NECESSARY TO COMPLETE ALL PROPOSED NEW CONSTRUCTION & IMPROVEMENTS AS SHOWN ON THE PLANS, REGARDLESS OF THE GENERAL AREAS AND ITEMS SHOWN. ALL DEMOLITION, REMOVAL, RELOCATION OR REPLACEMENT OF PUBLIC UTILITIES OR INFRASTRUCTURE SHALL BE COORDINATED W/ THE PROPER AUTHORITY HAVING JURISDICTION (AHJ) AND PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AHJ.
4. ANY TOPSOIL OR GRAVEL IN THE CONSTRUCTION AREA SHALL BE STRIPPED AND STOCKPILED. TOPSOIL SHALL BE REUSED ON SITE AS PART OF THE FINAL GRADING.
5. UNSTABLE AND PUMPING SUBGRADE CONDITIONS MAY OCCUR DURING SITE PREPARATION AND GRADING OPERATIONS. PROPER PROTECTION OF SUBGRADE, DRAINAGE AND DEWATERING WILL BE CRITICAL TO SITE CONSTRUCTION EFFORTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MINIMIZE EQUIPMENT TRAFFIC ACROSS THE SITE. EVERY EFFORT SHALL BE MADE TO LOCALIZE EQUIPMENT STAGING AND TRAFFIC TO SPECIFIC AREAS AND LIMIT THE AMOUNT OF UNDERCUTTING AND SOIL STABILIZATION THAT MAY BE NEEDED.
6. NO UNSUITABLE MATERIAL SHALL BE USED FOR BORROW EXCAVATION UNLESS DIRECTED AND/OR APPROVED BY THE ENGINEER. ANY QUESTIONABLE MATERIAL SHALL BE APPROVED BY THE ENGINEER.
7. ANY EXISTING, ABANDONED SANITARY SEWER LATERALS, WATER LINES, STORM SEWERS AND GAS LINES, ECT. SHALL BE CAPPED AND PLUGGED OR REMOVED AS REQUIRED BY THE APPROPRIATE UTILITY PROVIDER OR GOVERNING AGENCY, AND SHOULD BE PERFORMED PER THE RESPECTIVE ENTITY'S STANDARDS AND SPECIFICATIONS.
8. GROUNDWATER SEEPAGE MAY OCCUR IN EXCAVATIONS DEPENDING ON PREVAILING WEATHER CONDITIONS AT THE TIME OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO USE TEMPORARY DITCHES, SUMPS, PUMPS, ETC. TO DEWATER EXCAVATIONS AND PREVENT DEGRADATION OF THE SUBGRADE. FURTHERMORE, OPEN GRADED STONE SUCH AS #57 SHALL NOT BE USED AS FILL OR BACKFILL UNLESS APPROVED BY THE ENGINEER.
9. ALL EXISTING PAVEMENT, SIDEWALK, C&G, DRIVEWAYS, CONCRETE STRUCTURES, ETC. TO BE REMOVED THAT IS LOCATED ADJACENT TO EXISTING PAVEMENT, SIDEWALK, C&G, CONCRETE STRUCTURES, ETC. THAT WILL BE RETAINED SHALL BE SAW CUT SO THAT ALL STRUCTURES TO BE RETAINED ARE NOT DAMAGED AND CAN BE JOINED PROPERLY.

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PROJECT ENGINEER (DESIGN)
Brady Pugh, P.E.

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INITIAL	04/17/2026
Rv. 1	04/28/2026
Rv. 2	
Rv. 3	

SHEET TITLE

EXISTING PLAN VIEW

SHEET NUMBER

C2.0

3 OF 18

N W E S

HORIZONTAL SCALE
0' 30' 60'

VERTICAL SCALE
0' N/A N/A

LEGEND

- PROPERTY LINE
- ZONING SETBACK
- EXISTING CONTOUR INTERVAL 1'
- 380 — EXISTING CONTOUR INTERVAL 5'
- 375 — PROPOSED CONTOUR INTERVAL 1'
- PROPOSED CONCRETE (STANDARD)
- PROPOSED CONCRETE (HEAVY DUTY)
- PROPOSED ASPHALT PAVING
- PROPOSED 6" CURB
- PROPOSED COMBINATION CURB & GUTTER
- PROPOSED HEAVY DUTY VALLEY GUTTER
- PROPOSED GRASS LINED EMERGENCY SPILLWAY
- PROPOSED ADA SIGNAGE

TOTAL CALCULATED EARTHWORK

FINAL GRADE vs EXISTING GRADE
CUT: 5,000 BANK CUBIC YARDS
FILL: 16,000 BANK CUBIC YARDS

SUB GRADE vs EXISTING GRADE
CUT: 6,500 BANK CUBIC YARDS
FILL: 11,500 BANK CUBIC YARDS

*NOTE: THE ABOVE EARTHWORK QUANTITIES DO NOT DISTINGUISH BETWEEN SOIL EXCAVATION AND ROCK EXCAVATION NOR DOES IT DISTINGUISH BETWEEN SUITABLE MATERIAL, UNSUITABLE MATERIAL, OR TOPSOIL. CONTRACTOR SHALL REFER TO THE GEOTECH REPORT FOR BORE HOLE AND ROCK DEPTH INFORMATION TO DETERMINE THE AMOUNT OF AVAILABLE ONSITE SUITABLE MATERIAL AND THE AMOUNT OF BORROW THAT WILL NEED TO BE BROUGHT IN FROM AN OFFSITE LOCATION. EARTHWORK VOLUMES ABOVE ARE BASED ON IN-PLACE (BANK YARDAGE) MEASUREMENTS. SHRINK AND SWELL IS NOT CONSIDERED IN THESE CALCULATIONS.

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NEW FACILITY ON INDUSTRIAL PARKWAY
JASPER, ALABAMA
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ALABAMA REGISTERED No. 35627 PROFESSIONAL ENGINEER ZAC MCGEHEE 04/17/2026

SENIOR ENGINEER
C.W. McGehee, P.E.
PROJECT MANAGER
Zac McGehee, P.E., P.L.S.
PROJECT ENGINEER (DESIGN)
Brady Pugh, P.E.

DATE	
INITIAL	04/17/2026
Rv. 1	05/11/2026
Rv. 2	
Rv. 3	

SHEET TITLE

FINAL GRADE

SHEET NUMBER

C3.0

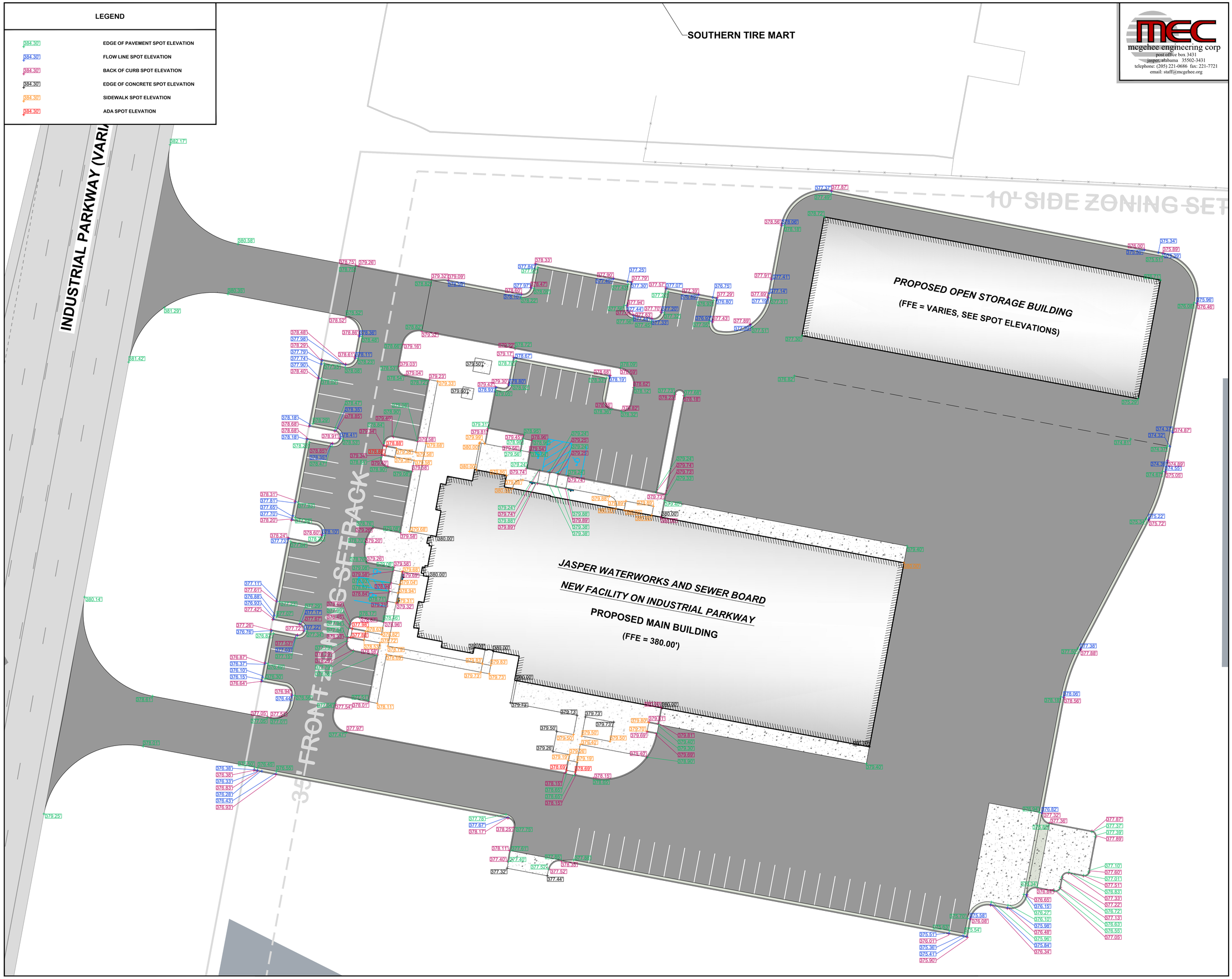
4 OF 18

HORIZONTAL SCALE
0' 30' 60'

VERTICAL SCALE
0' N/A N/A

GRADING NOTES

1. EXISTING AND PROPOSED CONTOURS/SPOT ELEVATIONS ARE FINISHED SURFACE ELEVATIONS. THE GRADING CONTRACTOR SHALL DEDUCT PAVEMENT AND TOPSOIL THICKNESSES FOR SUBGRADE ELEVATIONS AS MAY BE APPLICABLE DURING CONSTRUCTION.
2. ALL EARTHWORK, GRADING AND FOUNDATION WORK SHALL CONFORM TO THE REQUIREMENTS AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
3. UPON COMPLETION OF THE PROJECT, ALL AREAS SHALL ADEQUATELY DRAIN IN AREAS WHERE WORK IS PROPOSED. MINOR GRADING, WHETHER DIRECTLY SPECIFIED ON THE PLANS OR NOT, MAY BE REQUIRED TO OBTAIN DRAINAGE. THE CONTRACTOR SHALL MAKE FIELD DECISIONS AS NECESSARY TO ENSURE DRAINAGE IS OBTAINED AND THE PONDING OF WATER IS COMPLETELY AVOIDED. ANY FINAL CONSTRUCTION WHICH EXPERIENCES PONDING OF ANY MAGNITUDE (GRASSED AREAS OR PAVED AREAS) SHALL BE REWORKED OR REPLACED UNTIL ALL AREAS DRAIN PROPERLY. UNLESS OTHERWISE SPECIFIED ON THE PLANS, AT ALL LOCATIONS WHERE NEW PAVEMENT OR SIDEWALKS CONNECT TO EXISTING PAVEMENT OR SIDEWALKS, THE GRADE OF THE NEW SHALL MEET FLUSH WITH THE GRADE OF THE EXISTING. CONSULT THE ENGINEER AS NECESSARY.
4. THE CONTRACTOR SHALL GRADE THE SITE TO THE LINES AND GRADES SHOWN AND SHALL PROOF-ROLL AND TEST COMPACTION ON ALL AREAS.
5. SOILS SHALL BE TESTED PER THE GEOTECHNICAL REPORT.
6. UNSTABLE AND PUMPING SUBGRADE CONDITIONS MAY OCCUR DURING SITE PREPARATION AND GRADING OPERATIONS. PROPER PROTECTION OF SUBGRADE, DRAINAGE AND DEWATERING WILL BE CRITICAL TO SITE CONSTRUCTION EFFORTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MINIMIZE EQUIPMENT TRAFFIC ACROSS THE SITE. EVERY EFFORT SHALL BE MADE TO LOCALIZE EQUIPMENT STAGING AND TRAFFIC TO SPECIFIC AREAS AND LIMIT THE AMOUNT OF UNDERCUTTING AND SOIL STABILIZATION THAT MAY BE NEEDED.
7. ALL GRADING OPERATIONS SHALL BE MONITORED BY A QUALIFIED ENGINEER OR GEOTECHNICAL CONSULTANT AS CHOSEN AND PAID FOR BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING SAID CONSULTANT IN ADVANCE OF ALL REQUIRED TESTING AND SECURING COPIES OF RESULTING REPORTS.
8. NO UNSUITABLE MATERIAL SHALL BE USED FOR BORROW EXCAVATION UNLESS DIRECTED AND/OR APPROVED BY THE ENGINEER. ANY QUESTIONABLE MATERIAL SHALL BE APPROVED BY THE ENGINEER.
9. BORROW EXCAVATION MATERIAL SHALL BE PLACED IN MAXIMUM 8" LIFTS AND COMPACTED TO A MINIMUM 95% COMPACTION RATE OR TO THE SATISFACTION OF THE ENGINEER.
10. BASE COURSE SHALL BE PLACED AS SPECIFIED IN THE PLANS. THE BASE COURSE SHALL BE COMPACTED TO A MINIMUM 95% COMPACTION RATE OR TO THE SATISFACTION OF THE ENGINEER.
11. ALL ADA ACCESSIBLE PARKING, SIDEWALKS, RAMPS, ETC. SHALL MEET ADA REQUIREMENTS.
12. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDING FOR ALL NATURAL AND PAVED AREAS.
13. FINISH GRADING SHALL BE COMPLETED SUCH THAT GRADES AROUND STORM WATER INLETS, UTILITY VALVES, MANHOLES, CLEAN-OUTS, ETC., SHALL BE SMOOTH AND SUCH THAT LAWN MAINTENANCE EQUIPMENT CAN EASILY PASS OVER WITHOUT THE POSSIBILITY TO PRODUCE DAMAGE TO THE LAWN EQUIPMENT OR CONSTRUCTED ITEM.
14. GROUNDWATER SEEPAGE MAY OCCUR IN EXCAVATIONS DEPENDING ON PREVAILING WEATHER CONDITIONS AT THE TIME OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO USE TEMPORARY DITCHES, SUMPS, PUMPS, ETC. TO DEWATER EXCAVATIONS AND PREVENT DEGRADATION OF THE SUBGRADE. FURTHERMORE, OPEN GRADED STONE SUCH AS #57 SHALL NOT BE USED AS FILL OR BACKFILL UNLESS APPROVED BY THE ENGINEER.
15. A TACK COAT SHALL BE PLACED BETWEEN PAVEMENT LAYERS AT A RATE OF 0.1 GALLONS/SQUARE YARD. JOINT SEALANT SHALL BE PLACED BETWEEN ALL PAVEMENT JOINTS.



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PROJECT:

NEW FACILITY ON INDUSTRIAL PARKWAY

JASPER, ALABAMA

JASPER WATERWORKS & SEWER BOARD

ALABAMA REGISTERED No. 35627 PROFESSIONAL ENGINEER ZAC MCGEHEE 04/17/2026

SENIOR ENGINEER
C.W. McGehee, P.E.
PROJECT MANAGER
Zac McGehee, P.E., P.L.S.
PROJECT ENGINEER (DESIGN)
Brady Pugh, P.E.

DATE	
INITIAL	04-17-2026
Rv. 1	05-11-2026
Rv. 2	
Rv. 3	

SHEET TITLE

SPOT ELEVATIONS

SHEET NUMBER

C4.0

5 OF 18

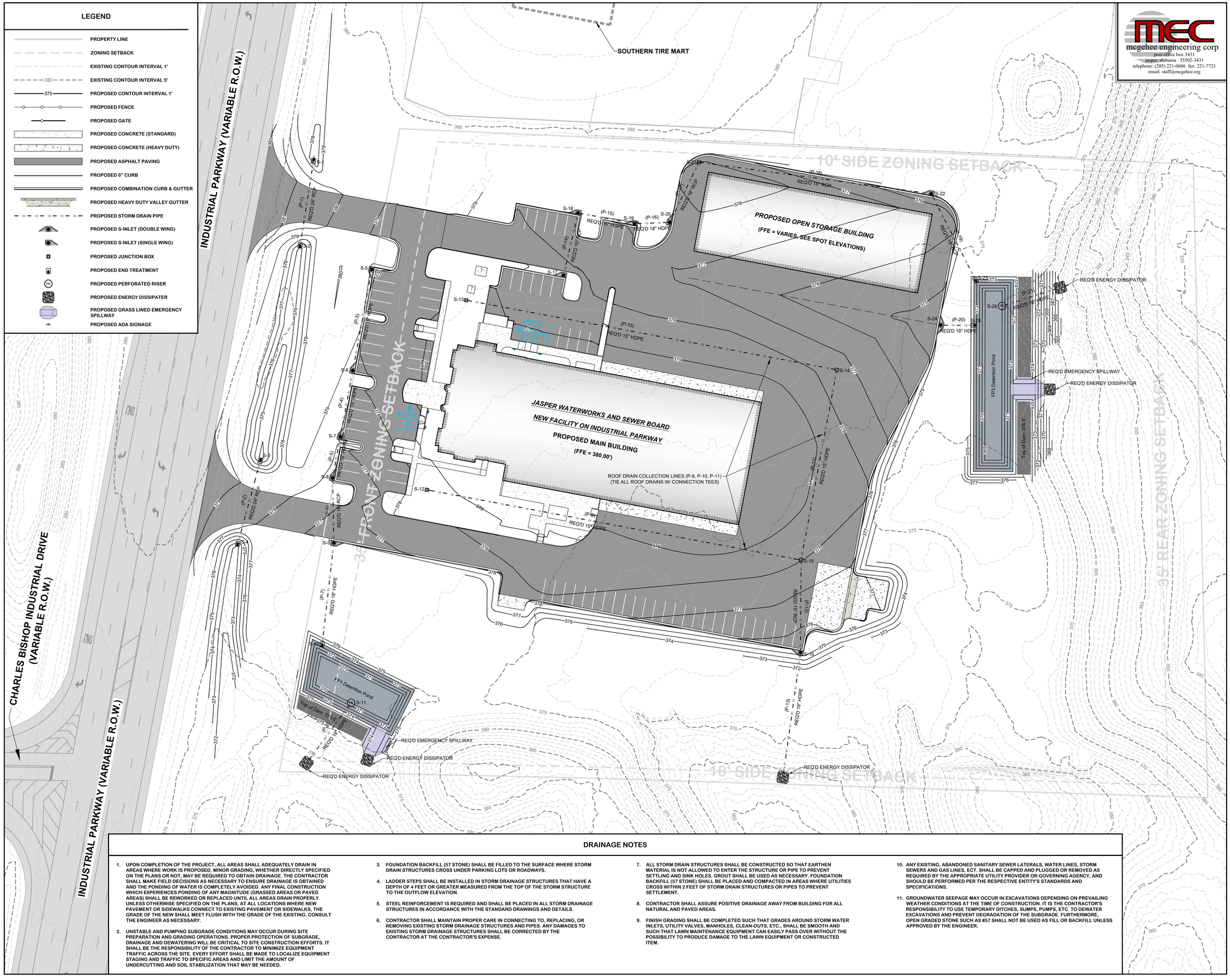
N W E S

HORIZONTAL SCALE

0' 20' 40'

VERTICAL SCALE

0' N/A N/A



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PROJECT ENGINEER (DESIGN)
Brady Pugh, P.E.

DATE	
INITIAL	04/17/2026
Rv. 1	05/11/2026
Rv. 2	
Rv. 3	

SHEET TITLE

DRAINAGE AND GRADING PLAN

SHEET NUMBER

C5.0

6 OF 18

N W E S

HORIZONTAL SCALE

0' 30' 60'

VERTICAL SCALE

0' N/A N/A

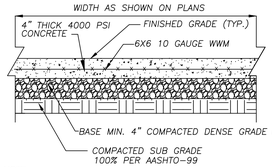
DRAINAGE NOTES

1. UPON COMPLETION OF THE PROJECT, ALL AREAS SHALL ADEQUATELY DRAIN IN AREAS WHERE WORK IS PROPOSED. MINOR GRADING, WHETHER DIRECTLY SPECIFIED ON THE PLANS OR NOT, MAY BE REQUIRED TO OBTAIN DRAINAGE. THE CONTRACTOR SHALL MAKE FIELD DECISIONS AS NECESSARY TO ENSURE DRAINAGE IS OBTAINED AND THE PONDING OF WATER IS COMPLETELY AVOIDED. ANY FINAL CONSTRUCTION WHICH EXPERIENCES PONDING OF ANY MAGNITUDE (GRASSED AREAS OR PAVED AREAS) SHALL BE REWORKED OR REPLACED UNTIL ALL AREAS DRAIN PROPERLY. UNLESS OTHERWISE SPECIFIED ON THE PLANS, AT ALL LOCATIONS WHERE NEW PAVEMENT OR SIDEWALKS CONNECT TO EXISTING PAVEMENT OR SIDEWALKS, THE GRADE OF THE NEW SHALL MEET FLUSH WITH THE GRADE OF THE EXISTING. CONSULT THE ENGINEER AS NECESSARY.
2. UNSTABLE AND PUMPING SUBGRADE CONDITIONS MAY OCCUR DURING SITE PREPARATION AND GRADING OPERATIONS. PROPER PROTECTION OF SUBGRADE, DRAINAGE AND DEWATERING WILL BE CRITICAL TO SITE CONSTRUCTION EFFORTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MINIMIZE EQUIPMENT TRAFFIC ACROSS THE SITE. EVERY EFFORT SHALL BE MADE TO LOCALIZE EQUIPMENT STAGING AND TRAFFIC TO SPECIFIC AREAS AND LIMIT THE AMOUNT OF UNDERCUTTING AND SOIL STABILIZATION THAT MAY BE NEEDED.
3. FOUNDATION BACKFILL (57 STONE) SHALL BE FILLED TO THE SURFACE WHERE STORM DRAIN STRUCTURES CROSS UNDER PARKING LOTS OR ROADWAYS.
4. LADDER STEPS SHALL BE INSTALLED IN STORM DRAINAGE STRUCTURES THAT HAVE A DEPTH OF 4 FEET OR GREATER MEASURED FROM THE TOP OF THE STORM STRUCTURE TO THE OUTFLOW ELEVATION.
5. STEEL REINFORCEMENT IS REQUIRED AND SHALL BE PLACED IN ALL STORM DRAINAGE STRUCTURES IN ACCORDANCE WITH THE STANDARD DRAWINGS AND DETAILS.
6. CONTRACTOR SHALL MAINTAIN PROPER CARE IN CONNECTING TO, REPLACING, OR REMOVING EXISTING STORM DRAINAGE STRUCTURES AND PIPES. ANY DAMAGES TO EXISTING STORM DRAINAGE STRUCTURES SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
7. ALL STORM DRAIN STRUCTURES SHALL BE CONSTRUCTED SO THAT EARTHEN MATERIAL IS NOT ALLOWED TO ENTER THE STRUCTURE OR PIPE TO PREVENT SETTLING AND SINK HOLES. GROUT SHALL BE USED AS NECESSARY. FOUNDATION BACKFILL (57 STONE) SHALL BE PLACED AND COMPACTED IN AREAS WHERE UTILITIES CROSS WITHIN 2 FEET OF STORM DRAIN STRUCTURES OR PIPES TO PREVENT SETTLEMENT.
8. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDING FOR ALL NATURAL AND PAVED AREAS.
9. FINISH GRADING SHALL BE COMPLETED SUCH THAT GRADES AROUND STORM WATER INLETS, UTILITY VALVES, MANHOLES, CLEAN-OUTS, ETC., SHALL BE SMOOTH AND SUCH THAT LAWN MAINTENANCE EQUIPMENT CAN EASILY PASS OVER WITHOUT THE POSSIBILITY TO PRODUCE DAMAGE TO THE LAWN EQUIPMENT OR CONSTRUCTED ITEM.
10. ANY EXISTING, ABANDONED SANITARY SEWER LATERALS, WATER LINES, STORM SEWERS AND GAS LINES, ECT. SHALL BE CAPPED AND PLUGGED OR REMOVED AS REQUIRED BY THE APPROPRIATE UTILITY PROVIDER OR GOVERNING AGENCY, AND SHOULD BE PERFORMED PER THE RESPECTIVE ENTITY'S STANDARDS AND SPECIFICATIONS.
11. GROUNDWATER SEEPAGE MAY OCCUR IN EXCAVATIONS DEPENDING ON PREVAILING WEATHER CONDITIONS AT THE TIME OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO USE TEMPORARY DITCHES, SUMPS, PUMPS, ETC. TO DEWATER EXCAVATIONS AND PREVENT DEGRADATION OF THE SUBGRADE. FURTHERMORE, OPEN GRADED STONE SUCH AS #57 SHALL NOT BE USED AS FILL OR BACKFILL UNLESS APPROVED BY THE ENGINEER.

STANDARD DETAILS

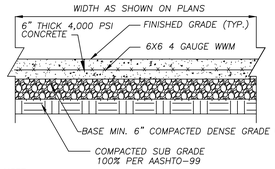
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PROJECT:
NEW FACILITY ON INDUSTRIAL PARKWAY
JASPER, ALABAMA
JASPER WATERWORKS & SEWER BOARD



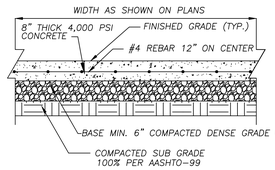
NOTE:
1. PLACE 1/2" EXPANSION JOINT BETWEEN SIDEWALK/PATIO AND CURB OR ADJACENT STRUCTURE (SEE DETAIL 2 FOR EXPANSION JOINT INFORMATION)
2. FOR SIDEWALKS, PROVIDE CONTRACTION JOINTS AS INDICATED ON DETAIL 2

1A 4" STANDARD CONCRETE
SCALE: NOT TO SCALE



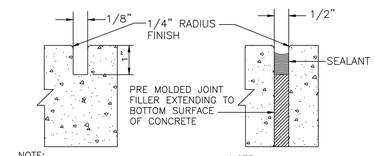
NOTE:
1. PLACE 1/2" EXPANSION JOINT BETWEEN PAD AREA AND CURB OR ADJACENT STRUCTURE (SEE DETAIL 2 FOR EXPANSION JOINT INFORMATION)
2. FOR PAD AREA, PROVIDE CONTRACTION JOINTS AT A MAXIMUM SPACING OF 15'.

1B 6" HEAVY DUTY CONCRETE
SCALE: NOT TO SCALE



NOTE:
1. PLACE 1/2" EXPANSION JOINT BETWEEN PAD AREA AND CURB OR ADJACENT STRUCTURE (SEE DETAIL 2 FOR EXPANSION JOINT INFORMATION)
2. FOR PAD AREA, PROVIDE CONTRACTION JOINTS AT A MAXIMUM SPACING OF 15'.

1C 8" HEAVY DUTY CONCRETE (DUMPSTER PAD & VALLEY GUTTER)
SCALE: NOT TO SCALE



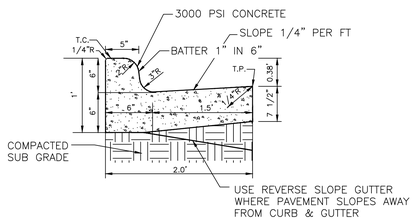
NOTE:
CONTRACTION JOINT SHALL DIVIDE SIDEWALK INTO SQUARE PANELS. SPACING OF CONTRACTION JOINTS SHALL EQUAL THE WIDTH OF THE SIDEWALK.

CONTRACTION JOINT

NOTE:
EXPANSION JOINTS @ 50' MAX. SPACING AND AT JUNCTIONS WITH OTHER STRUCTURES AND RIGID PAVING.

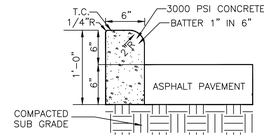
EXPANSION JOINT

2 CONCRETE JOINT DETAIL
SCALE: NOT TO SCALE



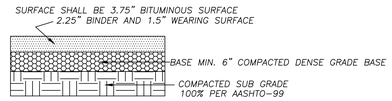
NOTES:
1. PLACE EXPANSION JOINT EVERY 50' AND BETWEEN RIGID STRUCTURES
2. PLACE CONTRACTION JOINT EVERY 10'

3 CURB AND GUTTER DETAIL
SCALE: NOT TO SCALE



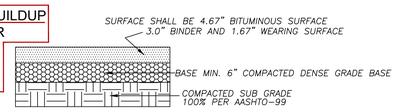
NOTES: 1. PLACE EXPANSION JOINT EVERY 50' AND BETWEEN RIGID STRUCTURES
2. PLACE CONTRACTION JOINT EVERY 10'

4 CURB DETAIL
SCALE: NOT TO SCALE

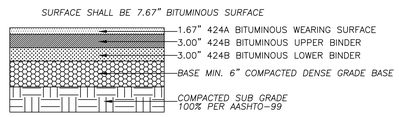


5 TYPICAL STANDARD DUTY PAVING SECTION
SCALE: NOT TO SCALE

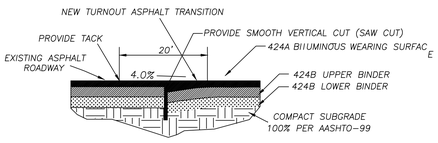
MINIMUM RECOMMENDED BUILDUP (SEE GEOTECH REPORT FOR DESIGN BUILDUP BASED ON INTENDED USE AND SUBSURFACE CONDITIONS)



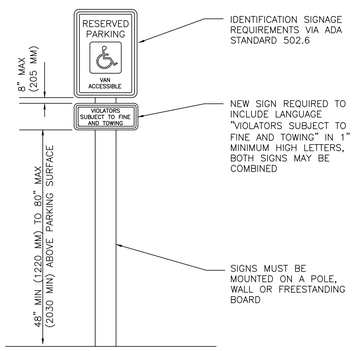
5A TYPICAL MEDIUM DUTY PAVING SECTION
SCALE: NOT TO SCALE



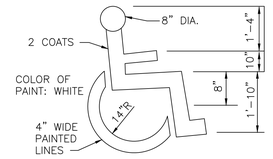
5B TYPICAL HEAVY DUTY PAVING SECTION
SCALE: NOT TO SCALE



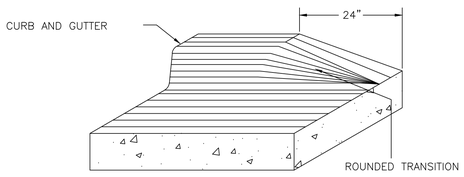
5C BUTT JOINT
SCALE: NOT TO SCALE



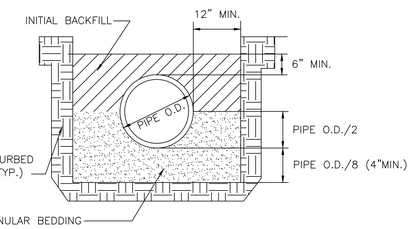
6 ADA IDENTIFICATION SIGNAGE DETAIL
SCALE: NOT TO SCALE



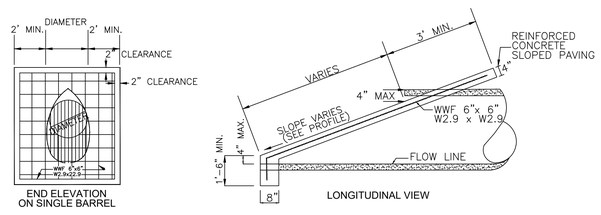
7 ADA SYMBOL DETAIL
SCALE: NOT TO SCALE



8 CURB NOSE DOWN TRANSITION
SCALE: NOT TO SCALE



9 PIPE TRENCH BEDDING
SCALE: NOT TO SCALE



NOTES:
1. INSTALL RIP RAP ENERGY DISSIPATER AT END TREATMENT OUTLETS
2. RIP RAP SIZE FOR PIPE DIAMETERS OF 12" – 36" SHALL BE CLASS II, AND CLASS III FOR 48" AND GREATER
3. MINIMUM DIMENSIONS (L&W) OF THE ENERGY DISSIPATER SHALL BE 6 TIMES THE PIPE DIAMETER.

10 PAVED SLOPE HEADWALL END TREATMENT
SCALE: NOT TO SCALE

ALABAMA REGISTERED No. 35027 PROFESSIONAL ENGINEER ZAC MCGEHEE
04/17/2026

SENIOR ENGINEER
C.W. McGehee, P.E.
PROJECT MANAGER
Zac McGehee, P.E., P.L.S.
PROJECT ENGINEER (DESIGN)
Brady Pugh, P.E.

DATE	
INITIAL	04/17/2026
Rv. 1	
Rv. 2	
Rv. 3	

SHEET TITLE
STANDARD DETAILS (1)

SHEET NUMBER
C6.0
7 OF 18

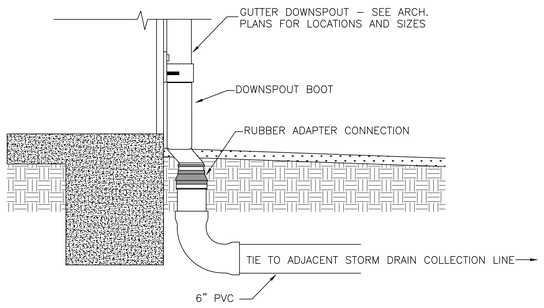
N W E S

HORIZONTAL SCALE
0' N/A N/A

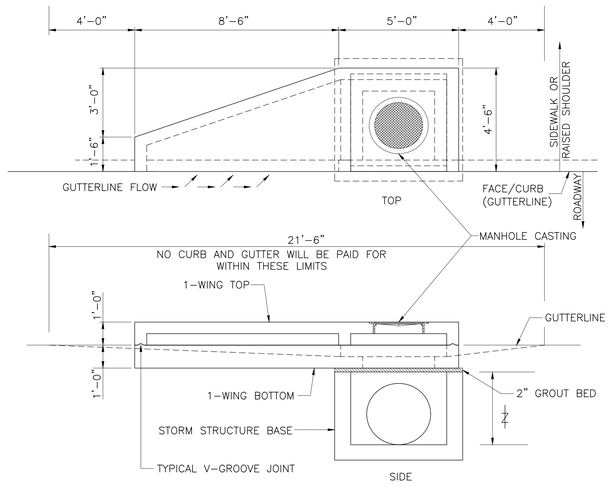
VERTICAL SCALE
0' N/A N/A

STANDARD DETAILS

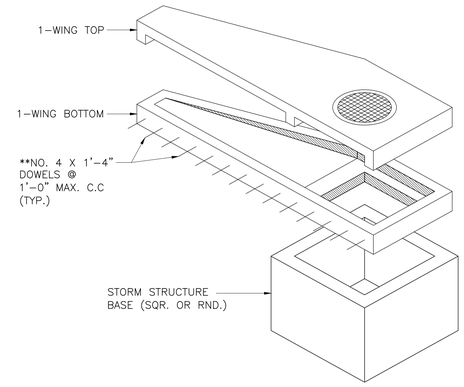
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email: staff@mcgehee.org



11 DOWNSPOUT TIE-IN DETAIL
SCALE: NOT TO SCALE



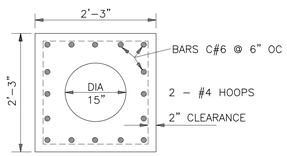
NOTE:
EXPANSION JOINTS ½" WIDE SHALL BE PLACED 20 FEET FROM THE INLET LIMITS SHOWN ON THESE INLETS.

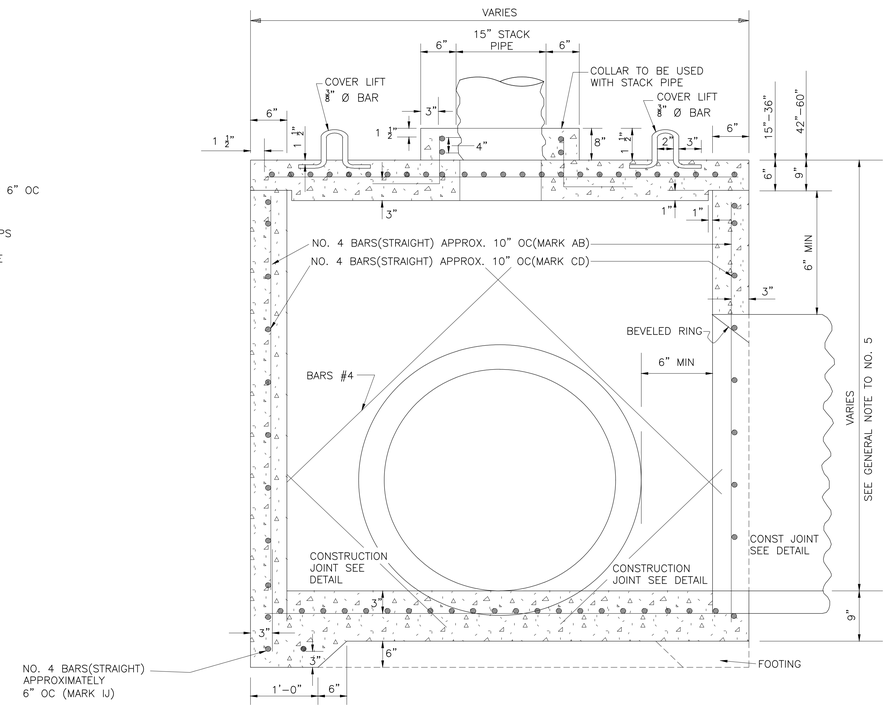


**CONTRACTOR TO DRILL AND EPOXY GROUT DOWELS WITH 4" EMBEDMENT AFTER UNIT IS SET IN THE FIELD. DOWELS TO BE FIELD BENT AS NEEDED.

12 CURB INLET, TYPE S
(SHOWN WITH LEFT WING: RIGHT WING ASSEMBLY SIM. OPP. HAND)

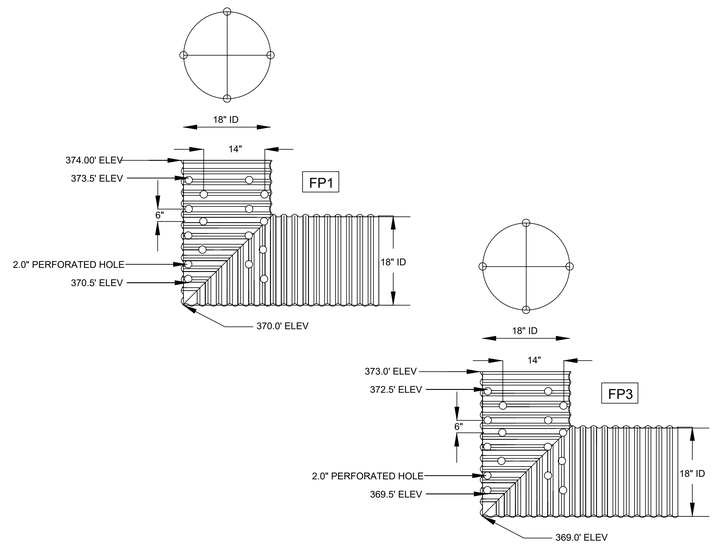
SCALE: NOT TO SCALE





13 JUNCTION BOX DETAILS
(FOR 15"-60" PIPE)(0'-10' FILL HEIGHT)

SCALE: NOT TO SCALE



NOTES:
1. TO PREVENT THE PIPE FROM FLOATING, THE INLET SHALL BE SECURED TO THE GROUND IF MORE THAN 1.5X THE DIAMETER OF THE PIPE (MEASURED FROM THE OUTSIDE OF THE RISER) IS STICKING OUT OF THE EMBANKMENT.

14 PERFORATED RISER DETAIL
SCALE: NOT TO SCALE

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PROJECT ENGINEER (DESIGN)
Brady Pugh, P.E.

DATE	
INITIAL	04/17/2026
Rv. 1	07/01/2026
Rv. 2	
Rv. 3	

SHEET TITLE
STANDARD DETAILS (2)

SHEET NUMBER
C6.1
8 OF 18

N W E S

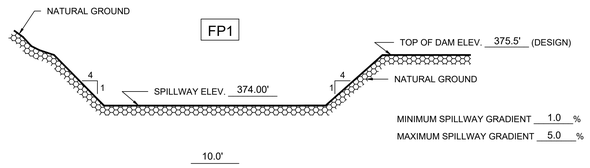
HORIZONTAL SCALE
0' N/A N/A

VERTICAL SCALE
0' N/A N/A

STANDARD DETAILS

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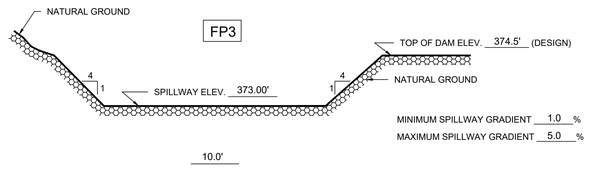
EMERGENCY SPILLWAY



GRASS LINED TRAPEZOIDAL CHANNEL

15 DETENTION POND EMERGENCY SPILLWAY
SCALE: NOT TO SCALE

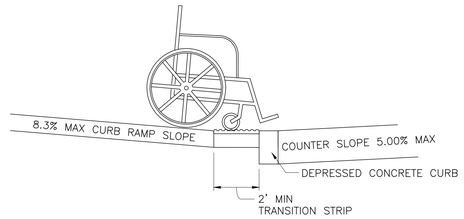
EMERGENCY SPILLWAY



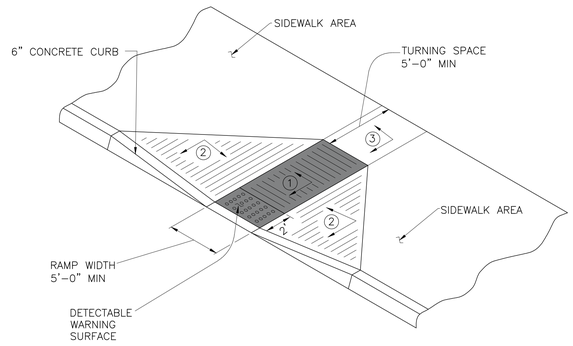
GRASS LINED TRAPEZOIDAL CHANNEL

1. RAMPS
   - 15'–0" MAX LENGTH
   - 8.3%(12:1) MAX RUNNING SLOPE
   - 5.0%(20:1) MIN RUNNING SLOPE
   - 2.0%(50:1) MAX CROSS SLOPE
2. FLARES
   - 10.0%(10:1) MAX RUNNING SLOPE
3. LANDING OR TURNING SPACE
   - 2.0%(50:1) MAX RUNNING SLOPE
   - 2.0%(50:1) MAX CROSS SLOPE
4. SIDEWALKS
   - 5.0%(20:1) MAX RUNNING SLOPE
   - 2.0%(50:1) MAX CROSS SLOPE
5. DRIVEWAYS
   - 8.0%(12.5:1) MAX CHANGE IN GRADE BETWEEN ROAD SURFACES AND DRIVEWAY
   - 8.0%(12.5:1) MAX CHANGE IN GRADE BETWEEN DRIVEWAY AND SIDEWALK

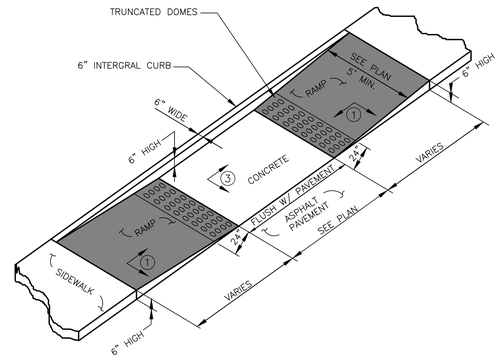
16 TYPICAL ADA RAMP DETAILS
SCALE: NOT TO SCALE



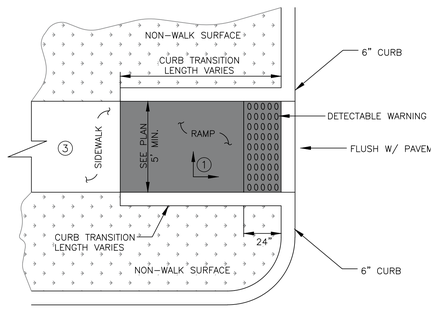
16A CHANGE OF GRADE LIMITATIONS
SCALE: NOT TO SCALE



16B ADA RAMP (PERPENDICULAR MID-BLOCK)
SCALE: NOT TO SCALE



16C ADA RAMP (INLINE)
SCALE: NOT TO SCALE



16D ADA RAMP (PARALLEL)
SCALE: NOT TO SCALE

PROJECT:
NEW FACILITY ON INDUSTRIAL PARKWAY
JASPER, ALABAMA
JASPER WATERWORKS & SEWER BOARD

ALABAMA REGISTERED No. 35627 PROFESSIONAL ENGINEER ZAC MCGEHEE
04/17/2026

SENIOR ENGINEER
C.W. McGehee, P.E.
PROJECT MANAGER
Zac McGehee, P.E., P.L.S.
PROJECT ENGINEER (DESIGN)
Brady Pugh, P.E.

DATE	
INITIAL	04/17/2026
Rv. 1	
Rv. 2	
Rv. 3	

SHEET TITLE
STANDARD DETAILS (3)

SHEET NUMBER
C6.2
9 OF 18

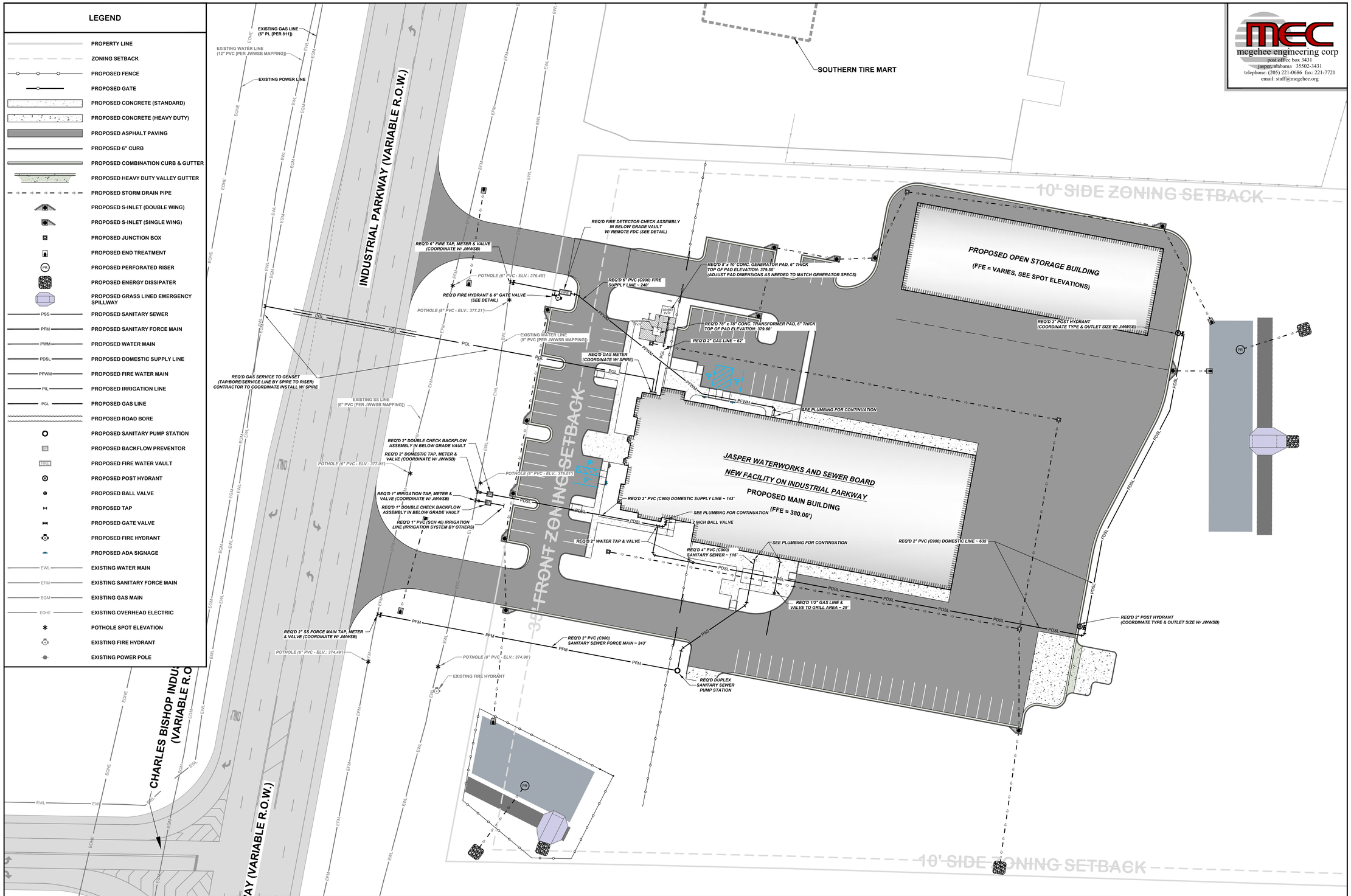
N W E S

HORIZONTAL SCALE
0' N/A N/A

VERTICAL SCALE
0' N/A N/A

LEGEND

- PROPERTY LINE
- ZONING SETBACK
- PROPOSED FENCE
- PROPOSED GATE
- PROPOSED CONCRETE (STANDARD)
- PROPOSED CONCRETE (HEAVY DUTY)
- PROPOSED ASPHALT PAVING
- PROPOSED 6" CURB
- PROPOSED COMBINATION CURB & GUTTER
- PROPOSED HEAVY DUTY VALLEY GUTTER
- PROPOSED STORM DRAIN PIPE
- PROPOSED S-INLET (DOUBLE WING)
- PROPOSED S-INLET (SINGLE WING)
- PROPOSED JUNCTION BOX
- PROPOSED END TREATMENT
- PROPOSED PERFORATED RISER
- PROPOSED ENERGY DISSIPATER
- PROPOSED GRASS LINED EMERGENCY SPILLWAY
- PSS — PROPOSED SANITARY SEWER
- PFM — PROPOSED SANITARY FORCE MAIN
- PWM — PROPOSED WATER MAIN
- PDSL — PROPOSED DOMESTIC SUPPLY LINE
- PFWM — PROPOSED FIRE WATER MAIN
- PIL — PROPOSED IRRIGATION LINE
- PGL — PROPOSED GAS LINE
- PROPOSED ROAD BORE
- PROPOSED SANITARY PUMP STATION
- PROPOSED BACKFLOW PREVENTOR
- FVAULT — PROPOSED FIRE WATER VAULT
- PROPOSED POST HYDRANT
- PROPOSED BALL VALVE
- PROPOSED TAP
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ADA SIGNAGE
- EWL — EXISTING WATER MAIN
- EFM — EXISTING SANITARY FORCE MAIN
- EGM — EXISTING GAS MAIN
- EOHE — EXISTING OVERHEAD ELECTRIC
- POTHOLE SPOT ELEVATION
- EXISTING FIRE HYDRANT
- EXISTING POWER POLE



UTILITY PLAN NOTES

1. ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATION AND MAKE NECESSARY ARRANGEMENTS WITH PRIVATE AND PUBLIC UTILITY COMPANIES TO AVOID ANY POSSIBLE DAMAGE TO OR INTERRUPTION OF UTILITY EQUIPMENT OR SERVICE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INQUIRIES CONCERNING LOCATION OF UTILITIES.
2. THE CONTRACTOR SHALL PERFORM THE NECESSARY AND APPROPRIATE TESTING (HYDROSTATIC, BAC T, AIR, ETC.) OF ALL WATER AND SEWER DISTRIBUTIONS SYSTEMS UPON FINAL CONSTRUCTION AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE AHJ PRIOR TO THE UTILITY BEING PLACED INTO SERVICE. THE COST OF TESTING SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION OF UTILITY CONSTRUCTION.
3. DETERMINING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY. BEFORE COMMENCING WORK, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ALABAMA 811 SYSTEM AND CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA. PROVIDE 72 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER, PROJECT MANAGER AND ENGINEER ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COSTS INCURRED BECAUSE OF THE CONTRACTOR'S OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF THE SAME. SCHEDULE AND EXECUTE ALL WORK INVOLVING EXISTING UTILITIES IN ORDER TO MINIMIZE INTERRUPTION OF SERVICES. WHENEVER SUCH INTERRUPTION IS NECESSARY FOR COMPLETION OF THE WORK, NOTIFY THE PROJECT MANAGER AND OWNER AT LEAST 48 HOURS IN ADVANCE. ALL WORK TO REPAIR/RESTORE UTILITY SERVICE SHALL BE PERFORMED AS REQUIRED BY THE APPROPRIATE UTILITY. IF IT IS NECESSARY TO SHORE, BRACE, OR SWING A UTILITY, CONTACT THE UTILITY COMPANY OR DEPARTMENT AFFECTED AND OBTAIN THEIR PERMISSION REGARDING THE METHOD TO USE FOR SUCH WORK. ALL COSTS RELATED TO SERVICE, MAINTENANCE, INTERRUPTION, REPAIR, RELOCATION AND RESTORATION ARE TO BE INCLUDED IN THE CONTRACTOR S BID. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION SHALL BE PAID.

UTILITY CONTACTS ARE AS FOLLOWS:

ALABAMA POWER COMPANY
2501 HWY 78 WEST
JASPER, AL 35501
PHONE: (800) 245-2244

AT&T
1905 HWY 78 WEST
JASPER, AL 35501
PHONE: (205) 221-9047
FAX: (205) 221-9074

CITY OF JASPER
400 WEST 19TH STREET
JASPER, AL 35501
PHONE: (205) 221-2100

JASPER WATER WORKS AND SEWER BOARD
1620 ALABAMA AVENUE
JASPER, AL 35501
PHONE: (205) 221-2141

SPIRE
214 IRONWOOD CT
JASPER, AL 35501
PHONE: (800) 292-4008

mcgehee engineering corp
post office box 3431
jasper, alabama 35502-3431
telephone: (205) 221-0686 fax: 221-7721
email: staff@mcgehee.org

PROJECT:
NEW FACILITY ON INDUSTRIAL PARKWAY
JASPER, ALABAMA
JASPER WATERWORKS & SEWER BOARD

ALABAMA REGISTERED No. 35027 PROFESSIONAL ENGINEER 05/11/2026 ZAC MCGEHEE

SENIOR ENGINEER
C.W. McGehee, P.E.
PROJECT MANAGER
Zac McGehee, P.E., P.L.S.
PROJECT ENGINEER (DESIGN)
Brady Pugh, P.E.

DATE	
INITIAL	04/17/2026
Rv. 1	04/28/2026
Rv. 2	05/11/2026
Rv. 3	07/01/2026

SHEET TITLE

UTILITY PLAN

SHEET NUMBER

C7.0

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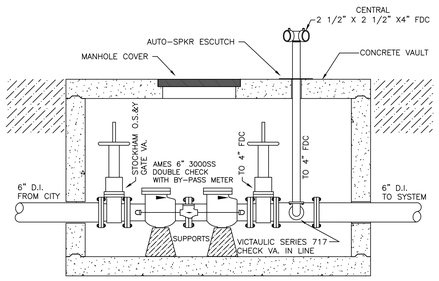
N W E S

HORIZONTAL SCALE
0' 30' 60'

VERTICAL SCALE
0' N/A N/A

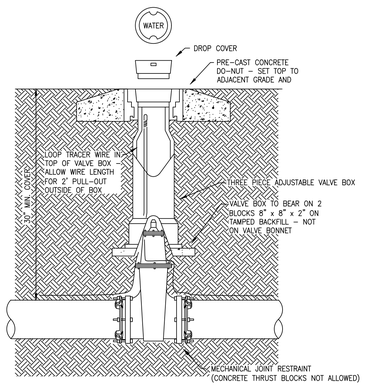
STANDARD DETAILS

mcgehee engineering corp
post office box 3431
jasper, alabama 35502-3431
telephone: (205) 221-0686 fax: 221-7721
email: staff@mcgehee.org

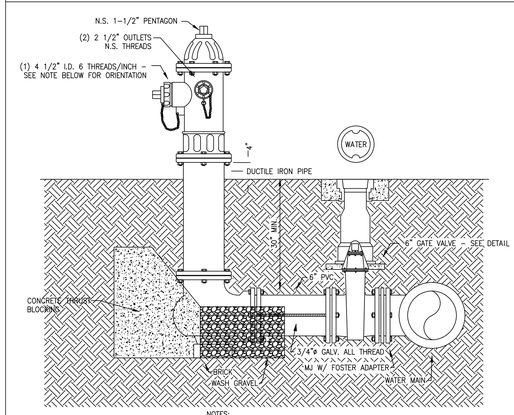


TYP. FIRE SERVICE DOUBLE CHECK ASSEMBLY

17 WATER VAULT DETAIL
SCALE: NOT TO SCALE



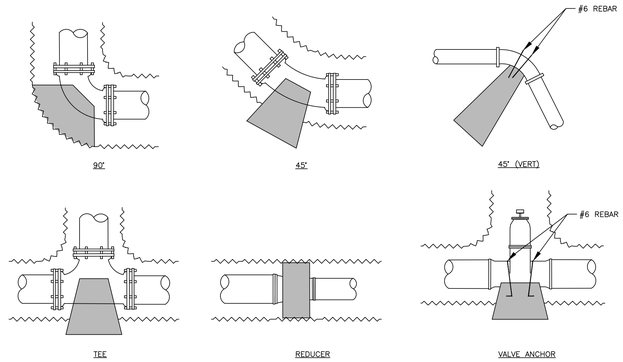
18 GATE VALVE DETAIL
SCALE: NOT TO SCALE



NOTES:
1. FIRE HYDRANT NOZZLES SHALL BE ORIENTED IN DIRECTIONS DEPICTED ON PLAN DRAWING(S).
2. ALL JOINTS SHALL BE FULLY RESTRAINED.

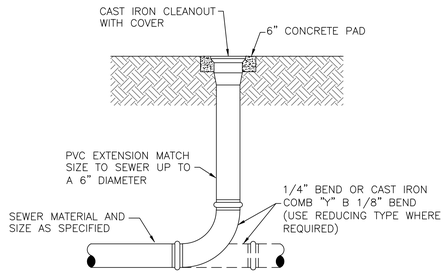
19 HYDRANT DETAIL
SCALE: NOT TO SCALE

PIPE DIAMETER (INCHES)	THRUST BLOCK SCHEDULE (BEARING AREA)				
	TEE, WYE, PLUG, CAP	90°	45°	22.5°	11.25°
4	2 SQ FT	2 SQ FT	1 SQ FT	-	-
6	3 SQ FT	4 SQ FT	2 SQ FT	1 SQ FT	-
8	5 SQ FT	7 SQ FT	4 SQ FT	2 SQ FT	1 SQ FT
10	8 SQ FT	11 SQ FT	6 SQ FT	3 SQ FT	2 SQ FT
12	11 SQ FT	15 SQ FT	8 SQ FT	4 SQ FT	2 SQ FT

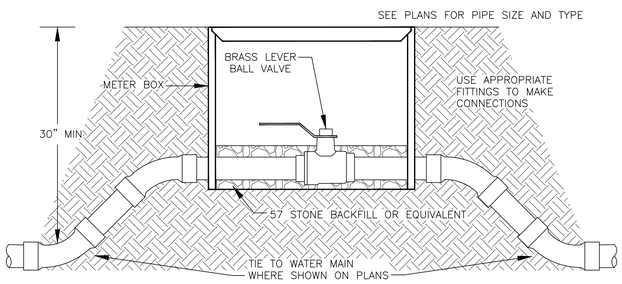


NOTES:
1. ALL VALVES, FITTINGS, AND DIRECTIONAL CHANGES ARE TO BE HELD IN PLACE BY CONCRETE THRUST BLOCKS.
2. THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH.
3. CONCRETE SHALL BE KEPT CLEAR OF JOINT & JOINT ACCESSORIES. CONCRETE IS NOT TO BEAR AGAINST PIPE. THRUST BLOCK SHALL ONLY BE IN CONTACT WITH THE FITTING.
4. BEARING AREA OF THRUST BLOCKS ARE BASED ON 150 PSI TEST PRESSURE AND AN ALLOWABLE SOIL BEARING OF 2000 PSF. BEARING AREAS VALUES SHALL BE ADJUSTED IF THE SPECIFICATIONS REQUIRE A DIFFERENT TEST PRESSURE OR ALLOWABLE SOIL BEARING. PROVIDE ADDITIONAL AREA IF DICTATED BY THE CONDITIONS ACTUALLY ENCOUNTERED.
5. ALL PRESSURE PIPES 3 INCHES IN DIAMETER AND OVER SHALL BE PROVIDED WITH CONCRETE RESTRAINTS.
6. ALL RODS SHALL BE COATED IN BITUMASTIC.

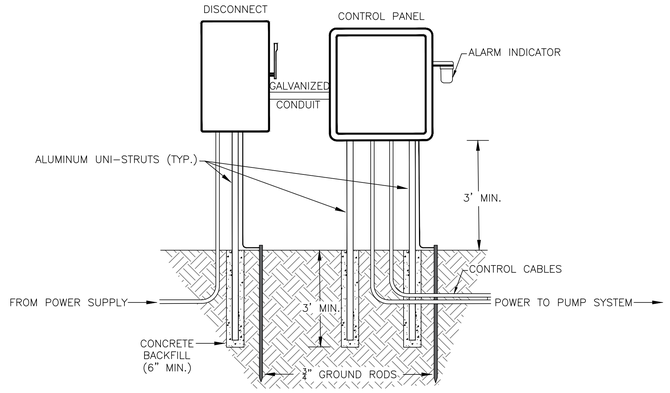
20 THRUST BLOCK DETAIL
SCALE: NOT TO SCALE

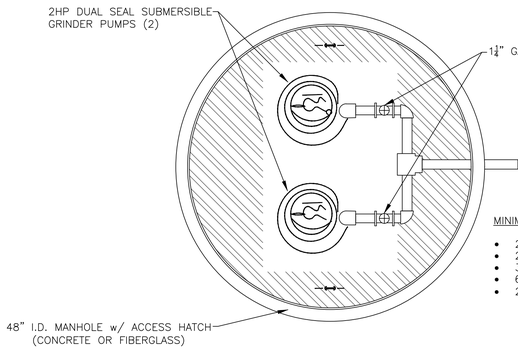


21 CLEAN-OUT DETAIL
SCALE: NOT TO SCALE

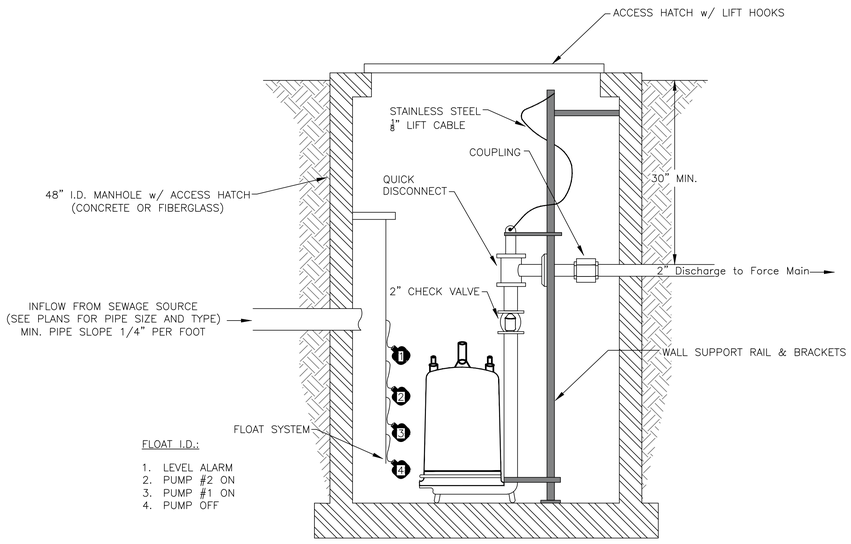


22 BALL VALVE DETAIL
SCALE: NOT TO SCALE





MINIMUM PUMP SPECS:
- 2HP
- 230 VOLTS
- 3 PHASE
- 60 HZ
- 25 GPM @ 30' TOTAL DYNAMIC HEAD



FLOAT I.D.:
1. LEVEL ALARM
2. PUMP #2 ON
3. PUMP #1 ON
4. PUMP OFF

23 GRINDER PUMP AND CONTROL PANEL DETAIL
SCALE: NOT TO SCALE

PROJECT:
NEW FACILITY ON INDUSTRIAL PARKWAY
JASPER, ALABAMA
JASPER WATERWORKS & SEWER BOARD

ALABAMA REGISTERED No. 35627 PROFESSIONAL ENGINEER ZAC MCGEHEE 04/17/2026

SENIOR ENGINEER
C.W. McGehee, P.E.
PROJECT MANAGER
Zac McGehee, P.E., P.L.S.
PROJECT ENGINEER (DESIGN)
Brady Pugh, P.E.

DATE	
INITIAL	04/17/2026
Rv. 1	
Rv. 2	
Rv. 3	

SHEET TITLE

STANDARD DETAILS (4)

SHEET NUMBER

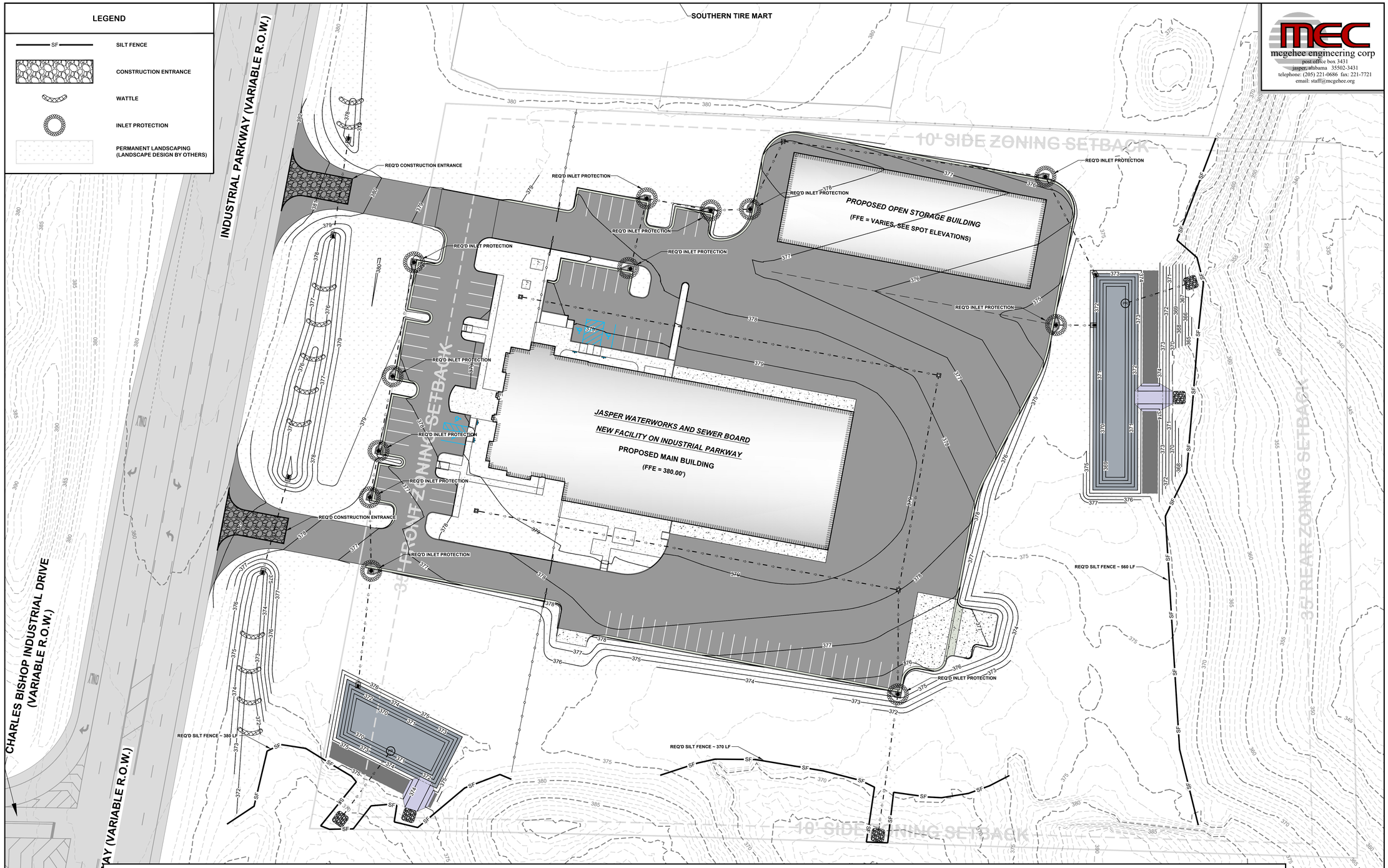
C8.0

11 OF 18

N W E S

HORIZONTAL SCALE
0' N/A N/A

VERTICAL SCALE
0' N/A N/A



megchee engineering corp
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telephone: (205) 221-0686 fax: 221-7721
email: staff@megehee.org

PROJECT:

NEW FACILITY ON INDUSTRIAL PARKWAY

JASPER, ALABAMA

JASPER WATERWORKS & SEWER BOARD

ALABAMA REGISTERED No. 35627 PROFESSIONAL ENGINEER ZAC MCGEHEE 04/17/2026

SENIOR ENGINEER
C.W. McGehee, P.E.
PROJECT MANAGER
Zac McGehee, P.E., P.L.S.
PROJECT ENGINEER (DESIGN)
Brady Pugh, P.E.

DATE	
INITIAL	04/17/2026
Rv. 1	04/28/2026
Rv. 2	05/11/2026
Rv. 3	

SHEET TITLE

EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C9.0

12 OF 18

N W E S

HORIZONTAL SCALE
0' 30' 60'

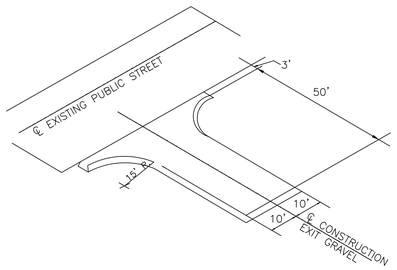
VERTICAL SCALE
0' N/A N/A

BEST MANAGEMENT PRACTICES NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ATTAINING A.D.E.M. GENERAL STORM WATER PERMIT COVERAGE TO COVER THE STORM WATER DISCHARGES ASSOCIATED WITH THE PROPOSED CONSTRUCTION ACTIVITY. THE TOTAL PERMIT ACREAGE COVERED UNDER THE PERMIT WILL BE 11.5 ACRES WITH THE TOTAL DISTURBED ACREAGE BEING APPROXIMATELY 6.0 ACRES +/-.
2. ALL BEST MANAGEMENT PRACTICES SHALL BE DEVELOPED AND MAINTAINED BY THE CONTRACTOR ACCORDING TO THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS (MOST CURRENT EDITION) BY THE ALABAMA SOIL AND WATER CONSERVATION COMMITTEE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND FAMILIARIZING HIMSELF WITH THE HANDBOOK AND THE STANDARDS AND MATERIALS CONTAINED THEREIN. THE HANDBOOK CAN BE OBTAINED THROUGH THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT WEBSITE.
3. THE MAINTENANCE OF ALL BEST MANAGEMENT PRACTICES, SO AS TO BE AN EFFECTIVE BARRIER TO EROSION AND SEDIMENTATION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGHOUT THE DURATION OF THE CONSTRUCTION PERIOD. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN COMPLIANCE WITH ALL ADEM AND EPA BEST MANAGEMENT PRACTICES AND THE NPDES PERMIT ASSOCIATED WITH THIS SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR, REPLACEMENT, AND/OR SUPPLEMENTATION OF ANY CONTROL MEASURES THAT ARE NOT FUNCTIONING PROPERLY. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON THE PLANS SHALL BE CONSIDERED A MINIMUM.
4. OTHER THAN LAND-CLEARING ACTIVITIES REQUIRED TO INSTALL THE APPROPRIATE BMP IN ACCORDANCE WITH THE BMP PLANS, ANY DOWN SLOPE EROSION AND SEDIMENT CONTROL MEASURES, ON-SITE STREAM CHANNEL PROTECTION AND UPSLOPE DIVERSION OF DRAINAGE REQUIRED BY THE BMP PLAN SHALL BE IN PLACE AND FUNCTIONAL BEFORE ANY CLEARING OR EARTH MOVING OPERATIONS BEGIN AND SHALL BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORK DAY, BUT SHALL BE REPLACED AT THE END OF THE WORKDAY.
5. THE ANGLE FOR GRADED SLOPES, FILLS AND/OR EARTHEN MATERIAL STOCKPILES SHALL BE NO GREATER THAN THE ANGLE WHICH CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. ANY SLOPE, FILLS AND/OR EARTHEN MATERIAL STOCKPILES WHICH HAVE BEEN GRADED SHALL WITHIN FOURTEEN (14) DAYS OF THE COMPLETION OF SUCH GRADING OR THE COMPLETION OF ANY PHASE OF GRADING , BE PLANTED OR OTHERWISE BE PROVIDED WITH GROUND COVER, MATERIALS, DEVICES, OR STRUCTURES SUFFICIENT TO RETAIN EROSION. THE BMPs SHALL REMAIN IN PLACE IN ACCORDANCE WITH THE BMP PLAN UNTIL THE GRADED SLOPES, FILLS AND/OR EARTHEN MATERIAL STOCKPILES ARE STABILIZED.
6. ALL HAZARDOUS SUBSTANCES USED FOR THIS PROJECT (PAINT, OIL, GREASE, AND OTHER PETROLEUM PRODUCTS) SHALL BE STORED IN ACCORDANCE WITH SPCC REGULATIONS. THESE SUBSTANCES SHALL BE STORED AWAY FROM STORM DRAINS, DITCHES, AND GUTTERS IN WATERTIGHT CONTAINERS . DISPOSAL OF THESE SUBSTANCES SHALL BE IN ACCORDANCE WITH ADEM REGULATIONS. THE CONTRACTOR SHALL PROVIDE ADEQUATE TRASH CONTAINERS ON SITE FOR THE DISPOSAL OF CONSTRUCTION MATERIAL WASTE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING TRASH FROM ENTERING THE STORM DRAINAGE SYSTEM..
7. ALL CONTROL MEASURES AT THE SITE SHALL BE INSPECTED MONTHLY IN DRY PERIODS AND WITHIN 24 HOURS AFTER ANY RAINFALL EVENT OF 0.75 INCHES OR MORE. MAINTENANCE SHALL BE PERFORMED AS NECESSARY. INSPECTIONS OF ANY NECESSARY MAINTENANCE SHALL BE PERFORMED DAILY DURING HEAVY OR PROLONGED RAINFALL EVENTS. THE CONTRACTOR SHALL MAINTAIN WRITTEN RECORDS OF SUCH INSPECTIONS AND MAINTENANCE.
8. APPROXIMATE START DATE: JULY 2026, APPROXIMATE END DATE: MAY 2027
9. ALL MATERIALS SHALL BE PROPERLY STORED AND STOCKPILED. ALL CONTAINERS SHALL BE STORED CLOSED OR IN COVER. ALL EXCESS OR WASTE MATERIAL SHALL BE DISPOSED OF PROPERLY BY THE CONTRACTOR. THE CONTRACTOR SHALL DISPOSE OF TRASH AND WASTE TO AN ACCEPTABLE OFFSITE FACILITY EVERY 10 DAYS MINIMUM.
10. THERE SHALL BE NO DISTINCTLY VISIBLE FLOATING SCUM, OIL, OR OTHER MATTER CONTAINED IN THE STORM WATER DISCHARGE TO A RECEIVING WATER. STORM WATER DISCHARGE SHALL NOT CONTAIN ANY UNNATURAL COLORS UNLESS PRODUCED BY APPROVED DYES OR OTHER SUBSTANCES DISCHARGED FOR THE PURPOSE OF ENVIRONMENTAL STUDIES. THERE SHALL BE NO FOUL ODORS IN THE STORM WATER DISCHARGE TO A RECEIVING WATER. THE STORM WATER DISCHARGE TO A RECEIVING WATER MUST NOT CONTAIN MATERIAL IN CONCENTRATION SUFFICIENT TO BE HAZARDOUS OR OTHERWISE DETRIMENTAL TO HUMANS, LIVESTOCK, WILDLIFE, PLANT LIFE, OR FISH AND AQUATIC LIFE IN RECEIVING WATERS.
11. A FINAL INSPECTION MUST BE MADE ONCE ALL LAND DISTURBING ACTIVITIES ARE COMPLETE AND ALL STABILIZING VEGETATION IS ESTABLISHED. THE INSPECTOR WILL HAVE 5 BUSINESS DAYS TO COMPLETE THE INSPECTION ONCE NOTIFIED OF THE ABOVE BY THE OWNER. ADDITIONAL MEASURES MAY BE REQUIRED TO CORRECT ANY ISSUES.
12. THE CONTRACTOR SHALL MINIMIZE THE TRACKING OF MUD AND DEBRIS ONTO PAVED ROADWAYS FROM CONSTRUCTION AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AT HIS EXPENSE ANY MUD AND DEBRIS TRACKED OFFSITE AND ONTO ADJACENT ROADWAYS AS REQUIRED.
13. ALL EXISTING AND NEW STORM DRAINAGE INLETS, STRUCTURES, AND PIPES SHALL BE CLEANED OF TRASH AND SEDIMENTS ON A REGULAR BASIS, WEEKLY AT A MINIMUM, SO AS NOT TO ALLOW DOWNSTREAM POLLUTION OF RECEIVING WATERS OR THE ESCAPING OF SEDIMENTS OFFSITE.
14. TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING DUST TO A MINIMUM THROUGH THE USE OF WATER TRUCKS OR OTHER DUST CONTROLLING METHODS THROUGHOUT THE CONSTRUCTION PERIOD.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING EROSION AND SILTATION OFF OF ADJACENT AND DOWNSTREAM PROPERTIES AND/OR ADJOINING SITES. AT HIS EXPENSE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SEDIMENTS AND DEBRIS ESCAPING THIS PROJECT SITE, THE REMEDIATION AND/OR REPAIR OF ANY DAMAGE THAT MAY OCCUR AS A RESULT TO ADJOINING AND/OR DOWNSTREAM EFFECTIVE PROPERTIES OR OFFSITE STRUCTURES, AND ANY FINES OR PENALTIES LEVIED AGAINST THE PROJECT BY REGULATORY AGENCIES DUE TO DEFICIENCIES OF CONTROL MEASURES.
17. ALL DISTURBED AND REGRADED AREAS NOT TO BE PAVED SHALL RECEIVE TOPSOIL AND BE SEEDED AND MULCHED ACCORDING TO ALDOT SEEDING SCHEDULES. LOCALIZED EROSION AND RILLS SHALL BE REPAIRED AS NECESSARY AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL ACCOUNT FOR THICKNESS OF TOPSOIL WITH RESPECT TO FINISHED GRADES.

STANDARD DETAILS

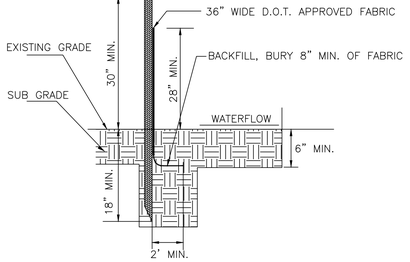
mcgehee engineering corp
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email: staff@mcgehee.org

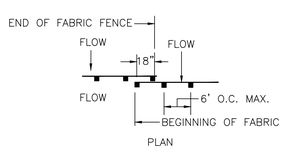


NOTES:
THE CONTRACTOR SHALL TAKE EVERY PRECAUTION IN ORDER TO PREVENT SEDIMENT AND GRAVEL FROM BEING TRACKED ON TO PUBLIC ROADS. PRECAUTIONS SHALL INCLUDE BUT NOT BE LIMITED TO TIRE WASHING AND MUD REMOVAL. CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED WITH 2" STONE OR LARGER AT A MINIMUM THICKNESS OF 4 INCHES.

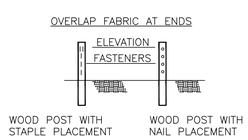
24 TEMPORARY CONSTRUCTION ENTRANCE
SCALE: NOT TO SCALE

NOTE:
OVERLAP FABRIC AT JOINTS ON POST TO PREVENT LEAKAGE AT SEAMS

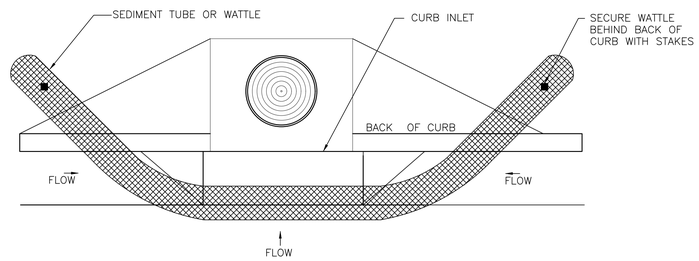




PLAN

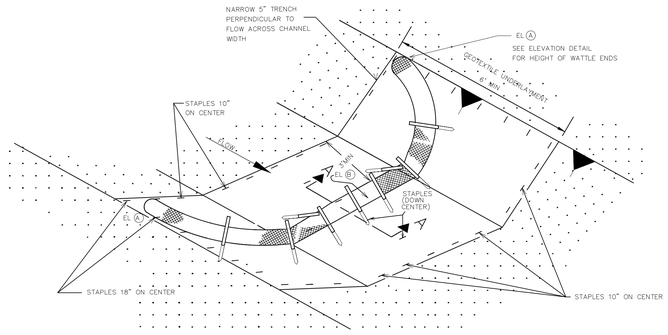


25 TEMPORARY SILT FENCE
SCALE: NOT TO SCALE

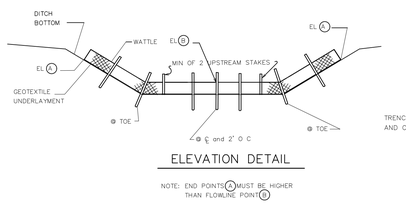


26 CURB INLET PROTECTION

PLAN VIEW

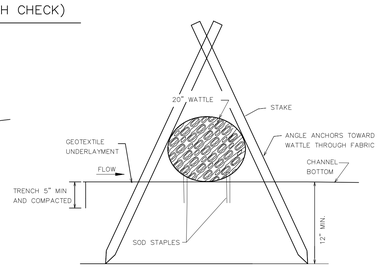


DETAIL (DITCH CHECK)



ELEVATION DETAIL

NOTE: END POINTS (A) MUST BE HIGHER THAN FLOWLINE POINT (B)



SECTION A–A

NOTES:
1. MINIMUM RECOMMENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK IS 100 FEET UNLESS SHOWN OTHERWISE ON THE PLANS OR APPROVED BY THE ENGINEER.
2. ANCHORING STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF TWO FEET.
3. SECURE GEOTEXTILE UNDERLAYMENT BY PLACING STAPLES 18 INCHES APART ALONG THE CHANNEL EDGES AND DOWN THE CENTER OF THE CHANNEL. SPACE STAPLES 10 INCHES APART ACROSS THE UPSTREAM AND DOWNSTREAM EDGES.
4. PLACE STAPLES ON BOTH SIDES OF WATTLE AT 6" SPACING.

27 WATTLE CHECK DAM

PROJECT:
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JASPER, ALABAMA
JASPER WATERWORKS & SEWER BOARD

ALABAMA REGISTERED No. 35627 PROFESSIONAL ENGINEER ZAC MCGEHEE 04/17/2026

SENIOR ENGINEER
C.W. McGehee, P.E.
PROJECT MANAGER
Zac McGehee, P.E., P.L.S.
PROJECT ENGINEER (DESIGN)
Brady Pugh, P.E.

DATE	
INITIAL	04/17/2026
Rv. 1	
Rv. 2	
Rv. 3	

SHEET TITLE
STANDARD DETAILS (5)

SHEET NUMBER
C10.0
13 OF 18

N W E S

HORIZONTAL SCALE
0' N/A N/A

VERTICAL SCALE
0' N/A N/A

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HYDRAULIC DATA

Flow Point & Storm Drain (I.D)	Calculated Pipe Size (Inches)	Design Pipe Size (Inches)	Structure IN (I.D.)	Invert In (MSL)	Invert Out (MSL)	Structure OUT (I.D.)	Invert In (MSL)	Invert Out (MSL)	Length Between Structures (Center to Center) (Feet)	Apprx. Length of Pipe (Feet)	Slope
FP1											
P1	21	24	S-1	-	377	S-2	376.20	-	-	81	1.00%
P2	24	24	S-3	-	374.13	S-4	373.33	-	-	81	1.00%
P3	10	15	S-5		375.84	S-6	375.19	374.99	90.83	87	0.75%
P4	12	15	S-6	375.19	374.99	S-7	374.58	374.38	59.46	55	0.75%
P5	15	15	S-7	374.58	374.38	S-8	374.13	373.93	37.00	33	0.75%
P6	18	18	S-8	374.13	373.93	S-9	373.66	373.46	57.58	54	0.50%
P7	18	18	S-9	373.66	373.46	S-10	373.01	-	92.46	90	0.50%
P8	18	18	S-11	-	370	-	369	-	-	60	1.67%
FP2											
P9	10	15	S-12	-	374.59	S-15	372.35	372.15	336.4	333	0.67%
P10	12	15	S-13	-	375.61	S-14	373.97	373.77	333.23	330	0.50%
P11	10	15	S-14	373.97	373.77	S-15	372.35	372.15	171.08	168	0.85%
P12	12	15	S-15	372.35	372.15	S-16	368.72	368.52	81.74	78	4.42%
P13	18	18	S-16	368.72	368.52	-	367.02	-	-	94	1.60%
FP3											
P14	8	15	S-17	-	375.00	S-18	374.46	374.26	56.56	54	1.0%
P15	15	15	S-18	374.46	374.26	S-19	374.03	373.83	51.00	47	0.5%
P16	18	18	S-19	374.03	373.83	S-20	373.69	373.49	30.90	27	0.5%
P17	15	18	S-20	373.69	373.49	S-21	373.22	373.02	59.11	55	0.5%
P18	15	18	S-21	373.22	373.02	S-22	372.00	371.80	207.18	203	0.5%
P19	18	18	S-22	372.00	371.80	S-23	371.37	-	88.04	86	0.5%
P20	18	18	S-24	-	371.65	S-25	371.35	-	31.65	30	1.0%
P21	18	18	S-25	-	369.00	-	365.58	-	-	48	7.1%

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PROJECT MANAGER
Zac McGehee, P.E., P.L.S.
PROJECT ENGINEER (DESIGN)
Brady Pugh, P.E.

DATE	
INITIAL	04/17/2026
Rv. 1	05/11/2026
Rv. 2	
Rv. 3	

SHEET TITLE
DRAINAGE STRUCTURE HYDRAULIC DATA SHEET

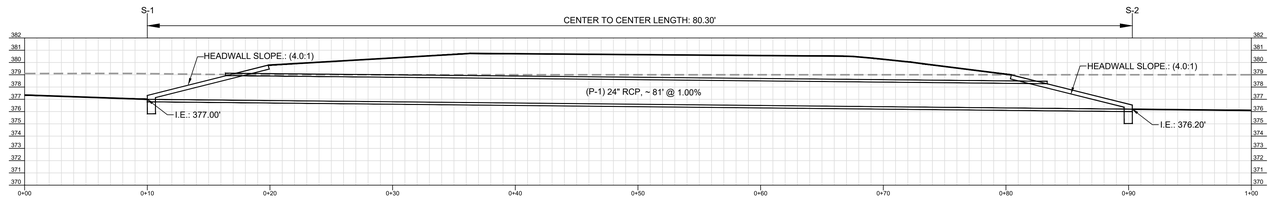
SHEET NUMBER
C11.0
14 OF 18

N W E S

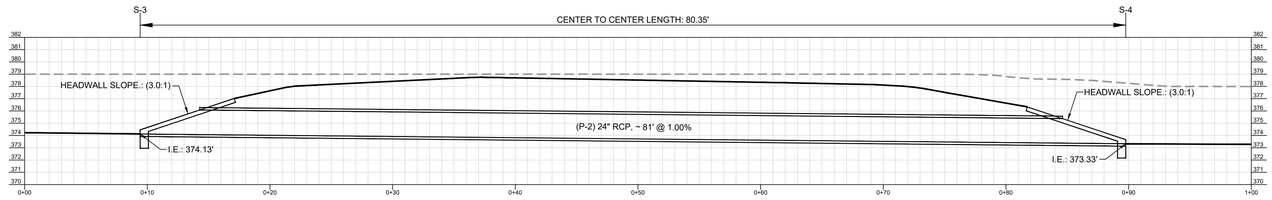
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VERTICAL SCALE
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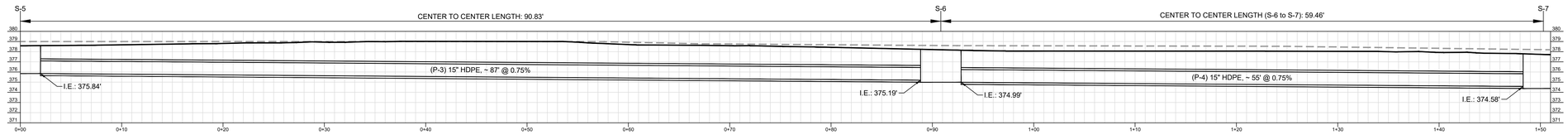
mcgehee engineering corp
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email: staff@mcgehee.org



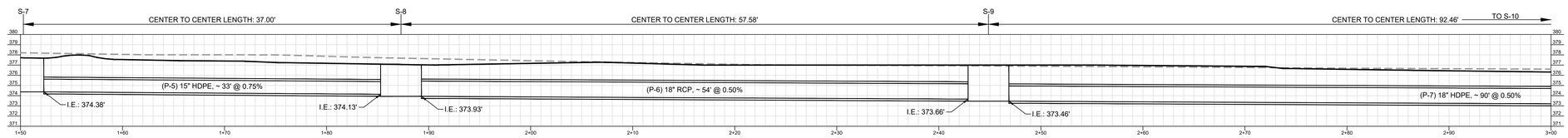
P-1 DRAINAGE PROFILE



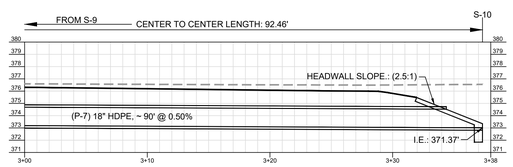
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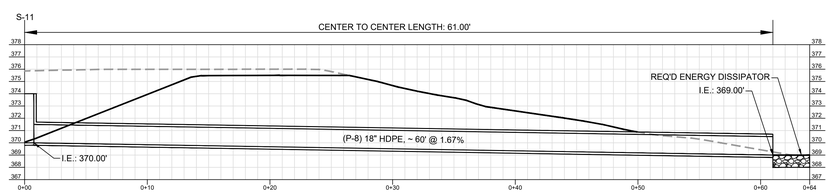
P-3, P-4, P-5, P-6, P-7 DRAINAGE PROFILE



P-3, P-4, P-5, P-6, P-7 DRAINAGE PROFILE (CONTINUED)



P-3, P-4, P-5, P-6, P-7 DRAINAGE PROFILE (CONTINUED)



P-8 DRAINAGE PROFILE

PROJECT:
NEW FACILITY ON INDUSTRIAL PARKWAY
JASPER, ALABAMA
JASPER WATERWORKS & SEWER BOARD

ALABAMA REGISTERED No. 35627 PROFESSIONAL ENGINEER ZAC MCGEHEE 04/17/2026

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Zac McGehee, P.E., P.L.S.
PROJECT ENGINEER (DESIGN)
Brady Pugh, P.E.

DATE	
INITIAL	04/17/2026
Rv. 1	
Rv. 2	
Rv. 3	

SHEET TITLE

DRAINAGE PROFILES (1)

SHEET NUMBER

C11.1

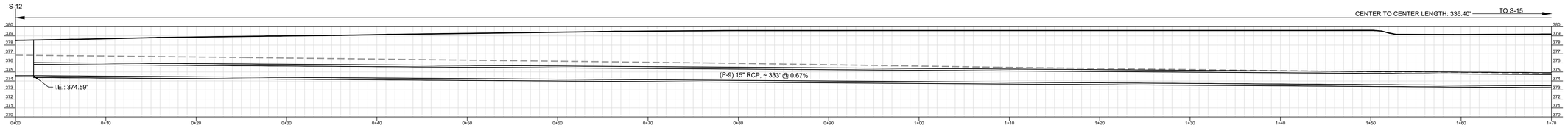
15 OF 18

N W E S

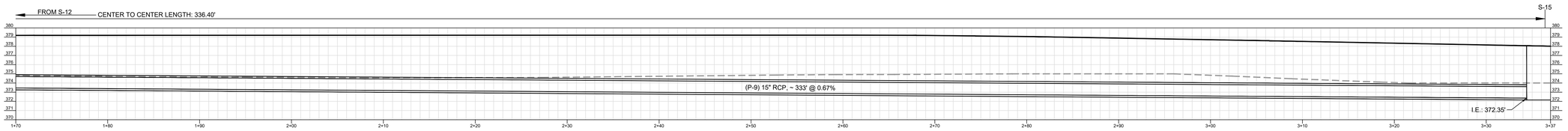
HORIZONTAL SCALE
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VERTICAL SCALE
0' 5' 10'

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jasper, alabama 35502-3431
telephone: (205) 221-0686 fax: 221-7721
email: staff@mcgehee.org



P-9 DRAINAGE PROFILE



P-9 DRAINAGE (CONTINUED)

PROJECT:
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ALABAMA REGISTERED No. 35627 PROFESSIONAL ENGINEER ZAC MCGEHEE
04/17/2026

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PROJECT MANAGER
Zac McGehee, P.E., P.L.S.
PROJECT ENGINEER (DESIGN)
Brady Pugh, P.E.

DATE	
INITIAL	04/17/2026
Rv. 1	
Rv. 2	
Rv. 3	

SHEET TITLE

DRAINAGE PROFILES (2)

SHEET NUMBER

C11.2

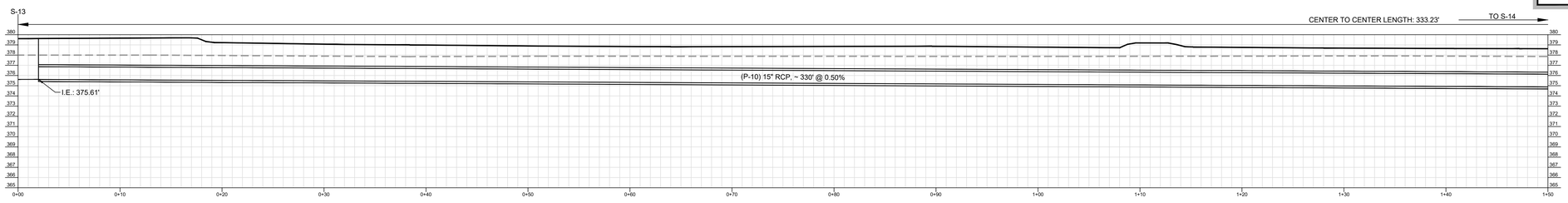
16 OF 18

N W E S

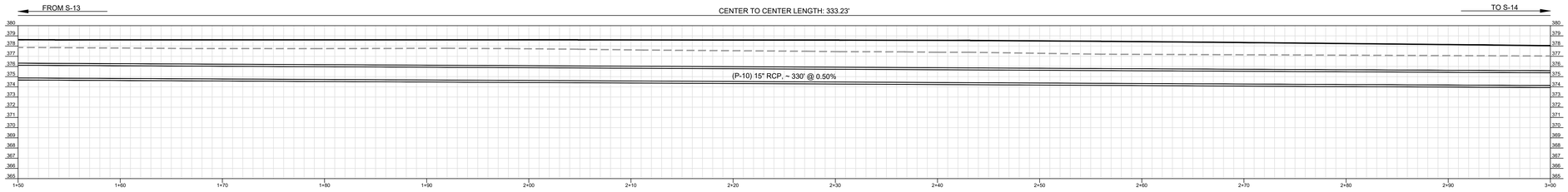
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VERTICAL SCALE
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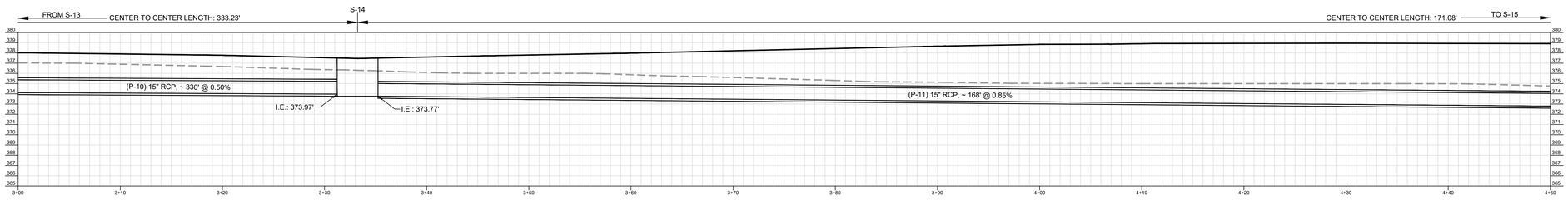
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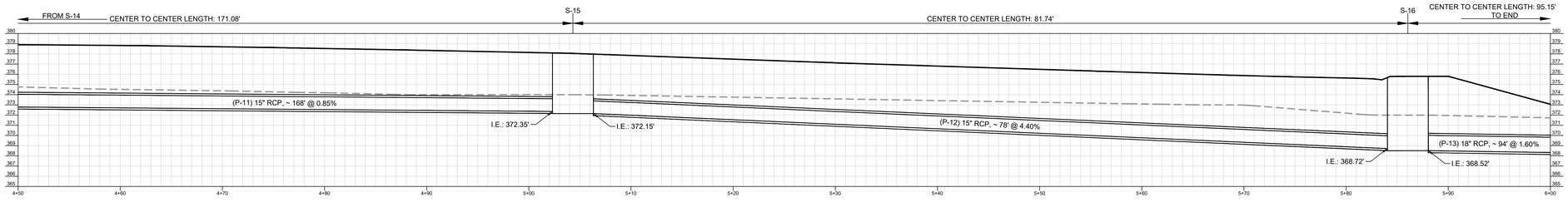
P-10, P-11, P-12, P-13 DRAINAGE PROFILE



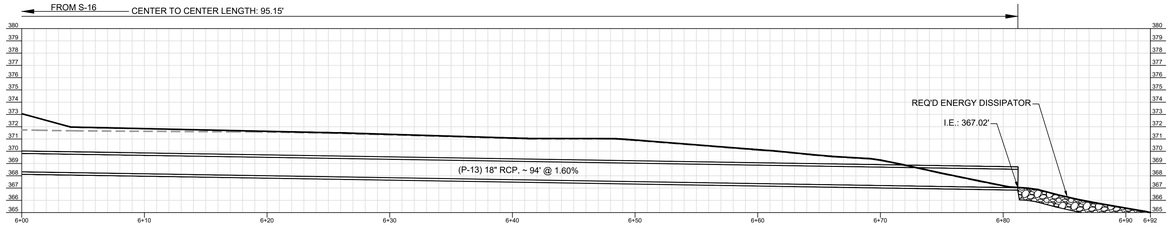
P-10, P-11, P-12, P-13 DRAINAGE PROFILE (CONTINUED)



P-10, P-11, P-12, P-13 DRAINAGE PROFILE (CONTINUED)



P-10, P-11, P-12, P-13 DRAINAGE PROFILE (CONTINUED)



P-10, P-11, P-12, P-13 DRAINAGE PROFILE (CONTINUED)

PROJECT:
NEW FACILITY ON INDUSTRIAL PARKWAY
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Zac McGehee, P.E., P.L.S.
PROJECT ENGINEER (DESIGN)
Brady Pugh, P.E.

DATE	
INITIAL	04/17/2026
Rv. 1	
Rv. 2	
Rv. 3	

SHEET TITLE

DRAINAGE PROFILES (3)

SHEET NUMBER

C11.3

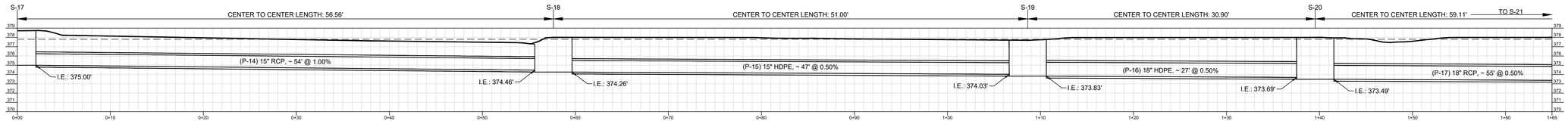
17 OF 18

N W E S

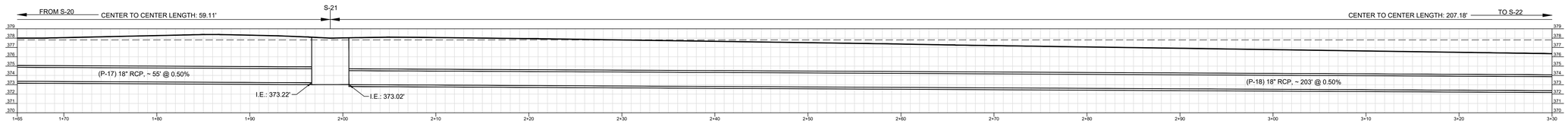
HORIZONTAL SCALE
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VERTICAL SCALE
0' 5' 10'

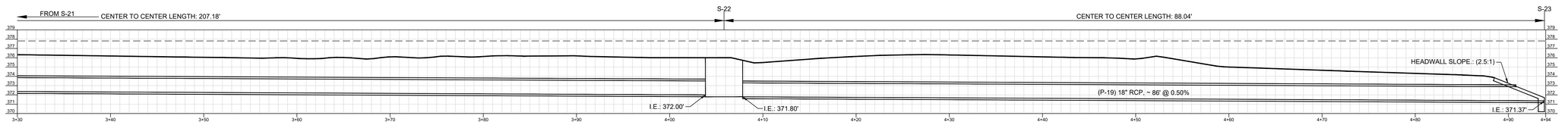
mcgehee engineering corp
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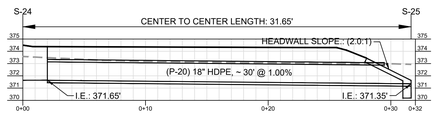
P-14, P-15, P-16, P-17, P-18, P-19 DRAINAGE PROFILE



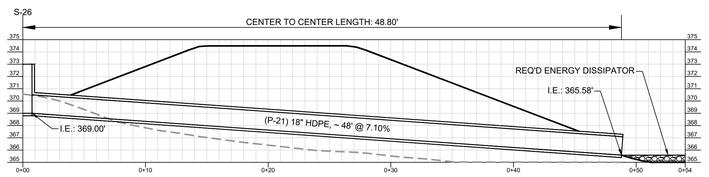
P-14, P-15, P-16, P-17, P-18, P-19 DRAINAGE PROFILE (CONTINUED)



P-14, P-15, P-16, P-17, P-18, P-19 DRAINAGE PROFILE (CONTINUED)



P-20 DRAINAGE PROFILE



P-21 DRAINAGE PROFILE

PROJECT:
NEW FACILITY ON INDUSTRIAL PARKWAY
JASPER, ALABAMA
JASPER WATERWORKS & SEWER BOARD

ALABAMA REGISTERED
No. 35627
PROFESSIONAL
05/11/2026
ENGINEER
ZAC MCGEHEE

SENIOR ENGINEER
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PROJECT MANAGER
Zac McGehee, P.E., P.L.S.
PROJECT ENGINEER (DESIGN)
Brady Pugh, P.E.

DATE	
INITIAL	04/17/2026
Rv. 1	05/11/2026
Rv. 2	
Rv. 3	

SHEET TITLE

DRAINAGE PROFILES (4)

SHEET NUMBER

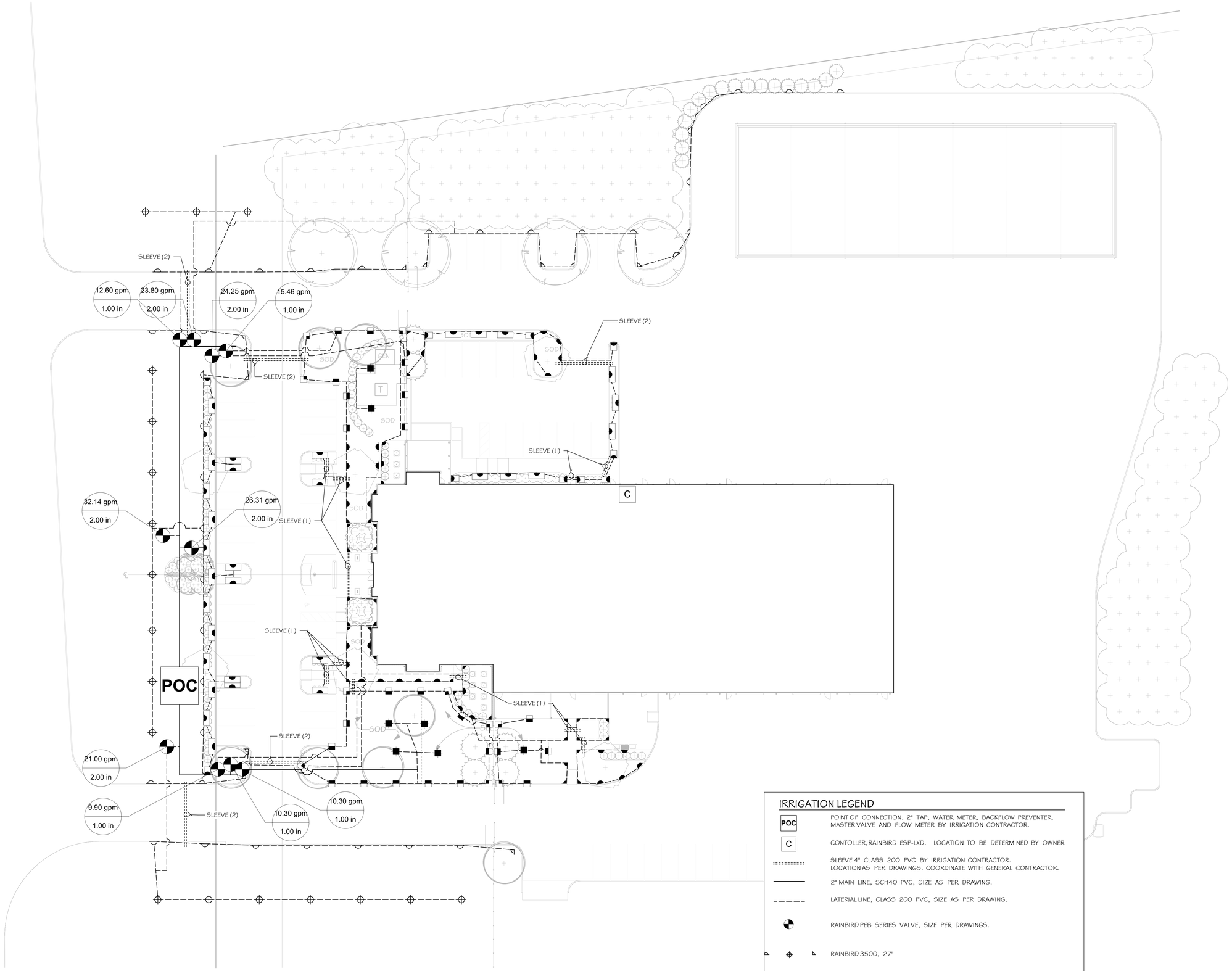
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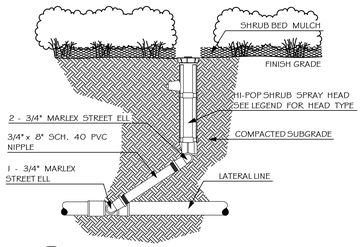
18 OF 18

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W E
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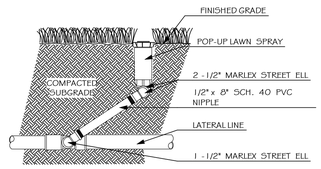
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VERTICAL SCALE
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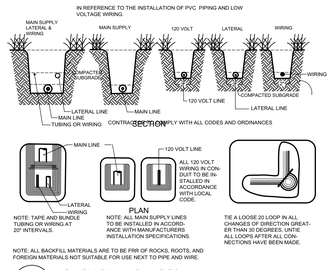

SLEEVE (2)
12.60 gpm
1.00 in
23.80 gpm
2.00 in
24.25 gpm
2.00 in
15.46 gpm
1.00 in
SLEEVE (2)
SLEEVE (2)
SOD
SOD
SOD



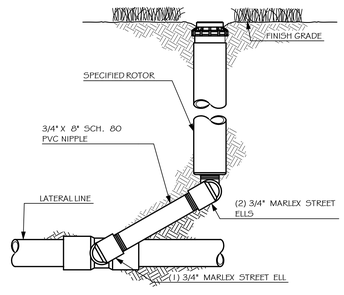
1 SHRUB SPRAY DETAIL
NOT TO SCALE



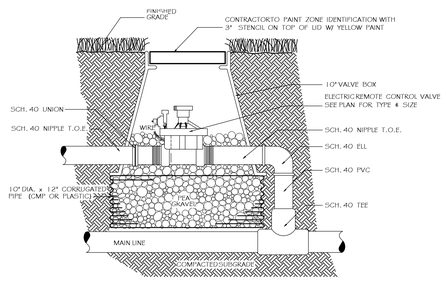
2 LAWN SPRAY DETAIL
NOT TO SCALE



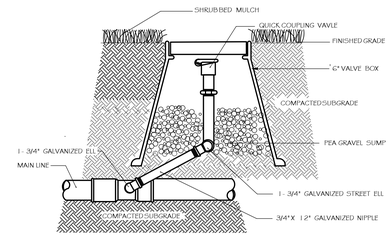
3 TRENCHING DETAIL
NOT TO SCALE



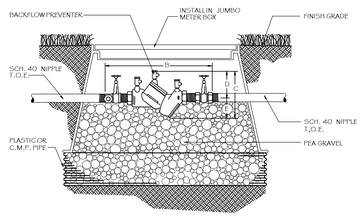
4 ROTOR DETAIL
NOT TO SCALE



5 CONTROL VALVE DETAIL
NOT TO SCALE



6 QUICK COUPLING VALVE DETAIL
NOT TO SCALE

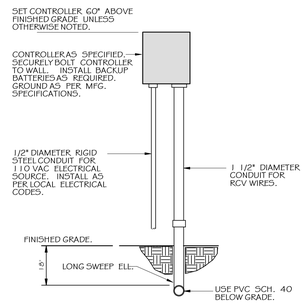


DIMENSIONS (INCHES)

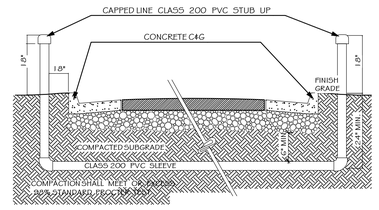
SIZE	B	C	D	E	WIDTH
3/4"	12-1/4"	6-7/8"	4"	2-7/8"	2-3/4"
1"	13-3/4"	6-7/8"	4-3/8"	2-7/8"	2-3/4"
1-1/2"	16-3/4"	9-7/8"	5-1/8"	4-7/8"	4-1/4"
2"	17-3/4"	9-7/8"	6-3/8"	4-7/8"	4-1/4"

CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES IN REFERENCE TO INSTALLATION AND VENTING OF BACKFLOW PREVENTION DEVICE.

7 BACKFLOW PREVENTER DETAIL
NOT TO SCALE



8 WALL MOUNTED CONTROLLER
NOT TO SCALE



NOTE: INSTALLER OF SLEEVES SHALL BE RESPONSIBLE TO LOCATE SLEEVES IF NOT PROPERLY LOCATED.

9 SLEEVING DETAIL
NOT TO SCALE

GENERAL IRRIGATION NOTES:

1. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THERE ARE OTHER ACTIVE UTILITIES AND SERVICES IN AND AROUND THE SITE. CONTRACTOR IS RESPONSIBLE FOR LOCATING THESE TO AVOID DAMAGE TO THEM.
2. THE CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS IN THE PROPOSED IRRIGATION SYSTEM TO AVOID DAMAGE TO EXISTING STRUCTURES, PAVING, AND UTILITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ON-SITE UTILITIES, STRUCTURES, OR PAVING RESULTING FROM IRRIGATION CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING TO ALL CODES AND ORDINANCES RELEVANT TO THE WORK UNDER THIS CONTRACT.
5. ALL WORK, ADJUSTMENTS, AND INSPECTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND LABOR TO FULLY EXECUTE AND GUARANTEE, AS REQUIRED, THE TOTAL WORK SHOWN ON THIS PLAN IN ACCORDANCE WITH SPECIFICATIONS, AND ALSO AS PER INSTRUCTIONS OF THE LANDSCAPE ARCHITECT AND OWNER.
7. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES TO ASSURE ADEQUATE INSTALLATION OF THE SYSTEM.
8. THE LOCATION OF THE AUTOMATIC CONTROL CLOCK IS GENERALLY INDICATED ON THE DRAWING AND WILL BE SPECIFICALLY LOCATED ON-SITE BY THE LANDSCAPE ARCHITECT OR OWNER.
9. LINE LOCATIONS AS INDICATED ON THE PLAN ARE SCHEMATIC. THE CONTRACTOR SHALL LOCATE ALL LINES IN SUCH A WAY AS TO CAUSE THE LEAST CONFLICT WITH THE LOCATION OF PROPOSED PLANT MATERIALS (AS SHOWN ON THE LANDSCAPE PLANTING PLAN) AND OTHER SITE AMENITIES.
10. ALL MAINLINES SHALL BE INSTALLED A MAXIMUM OF 2' FROM THE BACK OF CURBS WHERE POSSIBLE. LATERAL LINES SHALL BE INSTALLED LIKEWISE WHERE POSSIBLE.
11. ALL MAINLINES SHALL BE INSTALLED AT A MINIMUM OF 18" DEEP AND ALL LATERAL LINES SHALL BE INSTALLED AT A MINIMUM O F 12" DEEP.
12. THE CONTRACTOR SHALL ADJUST THE RADIUS AND ARC OF EACH HEAD TO MINIMIZE 'OVERTHROW' AND TO ELIMINATE DRY SPOTS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF ADDITIONAL HEADS NEEDED TO COVER "DRY SPOTS" OR SLIGHT VARIATIONS FROM THE PLAN TO THE SITE. THE LOCATION AND ARRANGEMENT OF THESE HEADS SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
14. THE ELECTRIC SUPPLY WILL BE STUBBED OUT AT THE CONTROL CLOCK LOCATION BY OTHERS. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL CONNECTIONS FROM CONTROL VALVES TO THE CONTROL CLOCK.
15. THE ENTIRE SYSTEM SHALL BE UNCONDITIONALLY GUARANTEED BY THE IRRIGATION CONTRACTOR AGAINST ALL DEFECTIVE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE.
16. CONTRACTOR SHALL INSTALL ONE AUTOMATIC RAIN SHUTOFF. LOCATION SHALL BE COORDINATED WITH OWNER OR OWNER'S REPRESENTATIVE.
17. THE CONTRACTOR SHALL EXAMINE THE SITE, PLANS AND SPECIFICATIONS (i.e. SYSTEM REQURIEMENTS). THE CONTRACTOR IS TO VERIFY PRIOR TO BEGINNING ANY IRRIGATION WORK THAT THE WATER SOURCE IS IN ACCORDANCE WITH THE DRAWINGS FOR MAKING CONNECTION. VERIFY THE WATER SOURCE TO PROVIDE NOT LESS THAN 40-45 GALLON PER MINUTE AT A STATIC PRESSURE OF 45-60 POUNDS PER SQUARE INCH. IF THE WATER SOURCE CONDITIONS ARE LESS THAN CRITIERA, MAKE ALL PARTIES AWARE OF THIS BEFORE PROCEEDING.

SLEEVE NOTES:

1. THE LOCATIONS OF SLEEVES, AS SHOWN ON THIS PLAN, ARE SCHEMATIC. THE CONTRACTOR SHALL MAKE ANY ADJUSTMENT NECESSARY TO ACCOMMODATE EXISTING VEGETATION, UTILITIES, NATURAL BARRIERS OR OTHER MAJOR CONSTRUCTION.
2. ANY DAMAGE TO EXISTING UTILITIES, STRUCTURES, OR OTHER CONSTRUCTION RESULTING FROM INSTALLATION OF SLEEVES IS THE RESPONSIBILITY OF THE CONTRACTOR.
3. WHERE A JOINT BETWEEN PIPE SECTIONS IS NECESSARY, THE INSIDE DIAMETER OF THE PIPE SHALL NOT BE SIGNIFICANTLY REDUCED.
4. P.V.C. SLEEVES SHALL BE INSTALLED AT A DEPTH OF AT LEAST 18" BELOW PAVEMENT SURFACE, AND NO DEEPER THAN 24". END OF SLEEVE SHALL EXTEND 12" BEYOND CURB OR PAVEMENT EDGE.
5. BACKFILL MATERIAL PLACED AROUND THE SLEEVES SHALL BE FREE OF ROCKS OR OTHER FOREIGN MATTER THAT MAY CAUSE DAMAGE TO THE PIPE.
6. THE CONTRACTOR SHALL INSTALL A P.V.C. STUB THAT IS AT LEAST 18" ABOVE GRADE AT EACH END OF THE SLEEVE TO MARK ITS EXACT LOCATION. IRRIGATION SLEEVES SHALL BE INDICATED WITH BLUE RIBBON. ELECTRICAL SLEEVES SHALL BE INDICATED WITH ORANGE RIBBON. SEE SLEEVING DETIAL.
7. ONCE THE SLEEVE IS INSTALLED, THE CONTRACTOR SHALL INSTALL A TEMPORARY CAP ON EACH END OF THE PIPE ACCORDING TO THE DETAIL TO PREVENT SOIL OR OTHER DEBRIS FROM ENTERING THE PIPE.
8. ALL MODIFICATIONS OF THIS PLAN ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
9. THE CONTRACTOR SHALL SUPPLY THE LANDSCAPE ARCHITECT WITH AN 'AS-BUILT' PLAN OF TH E LOCATION OF ALL SLEEVES PRIOR TO THE ACCEPTANCE OF WORK. SLEEVES ARE 4" UNLESS OTHERWISE NOTED ON PLAN.
10. ALL SLEEVES SHALL BE CLASS 200 P.V.C. PIPE.

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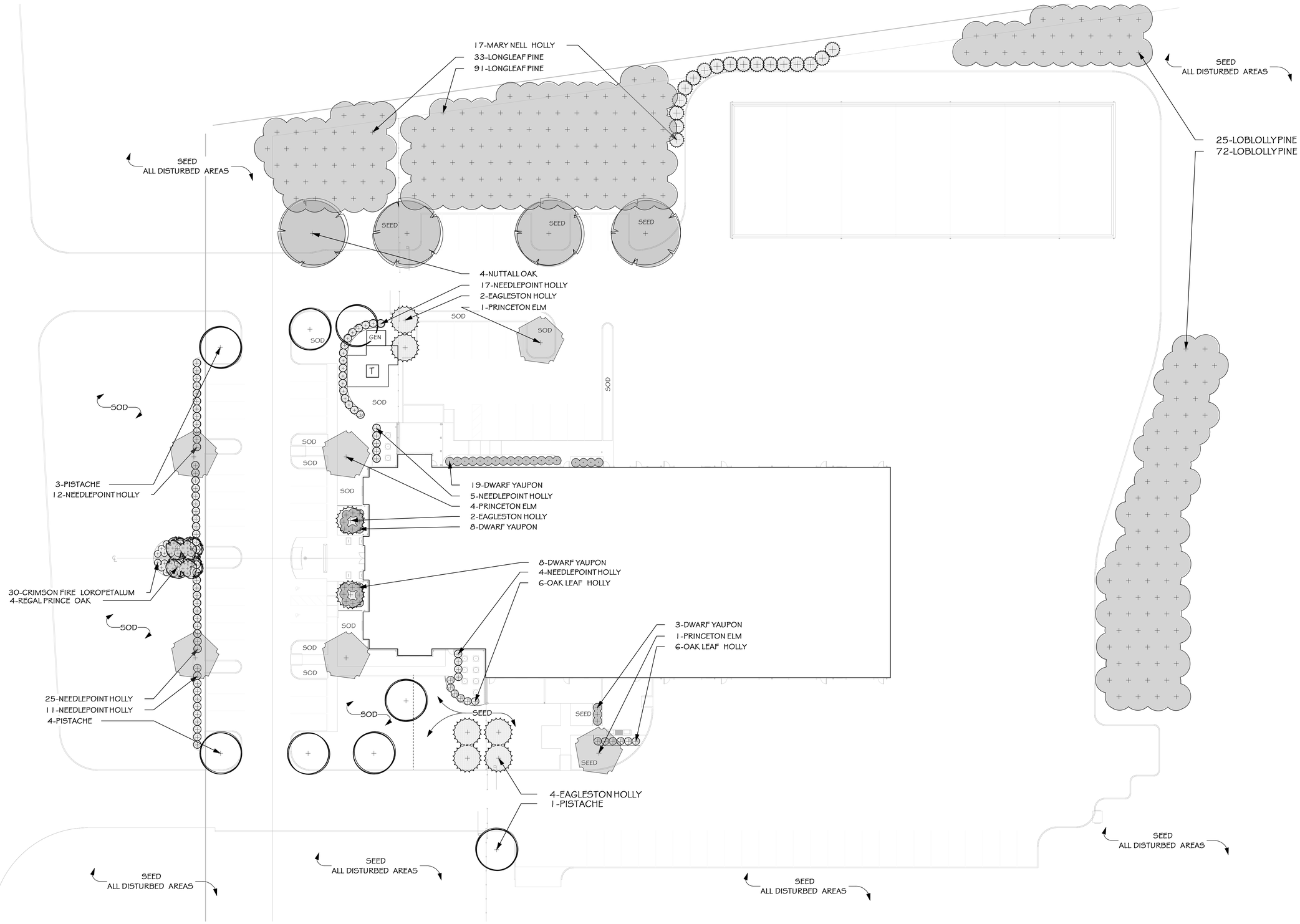
STATE OF ALABAMA
CHARLES A. KELLY, JR.
NUMBER 333
REGISTERED LANDSCAPE ARCHITECT
01/20/16

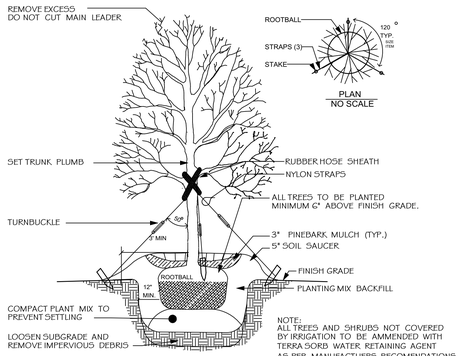
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IRRIGATION DETAILS & NOTES

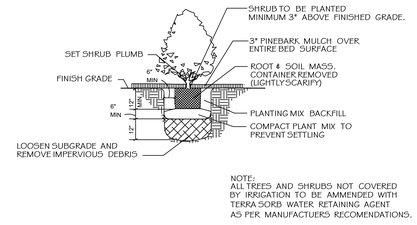
JASPER WATERWORKS & - NEW BUILDING
3877 INDUSTRIAL PKWY
JASPER, ALABAMA

L1.1

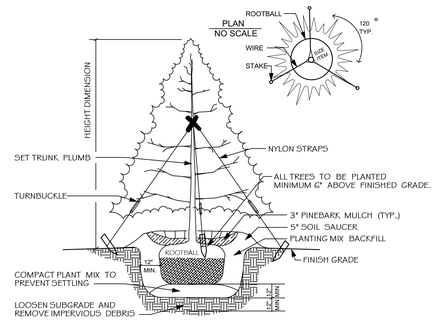

17-MARY NELL HOLLY
33-LONGLEAF PINE
91-LONGLEAF PINE
SEED
ALL DISTURBED AREAS
SEED
SEED
SEED
4-NUTTALL OAK
17-NEEDLEPOINT HOLLY
2-EAGLESTON HOLLY
1-PRINCETON ELM
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1 DETAIL TYPICAL TREE PLANTING AND GUYING
NOT TO SCALE

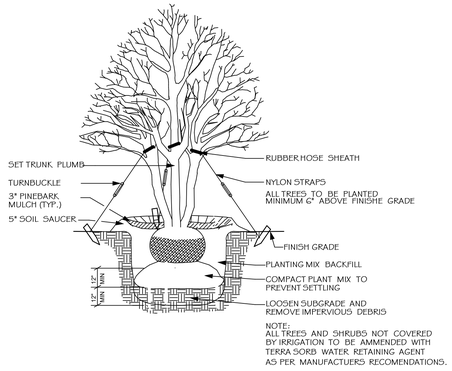


2 DETAIL TYPICAL CONTAINERIZED SHRUB PLANTING
NOT TO SCALE

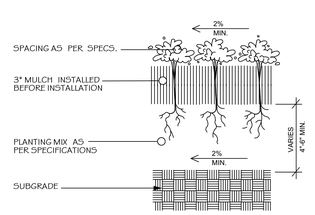


NOTES: 1. EVERGREEN TREES 2" CAL OR SMALLER TO BE STAKED.
2. PROVIDE WATER CRYSTALS PER MANUFACTURER'S RECOMMENDATIONS FOR PINE TREES.

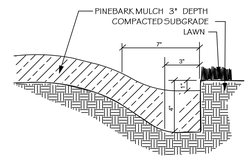
3 DETAIL EVERGREEN TREE PLANTING
NOT TO SCALE



4 DETAIL MULTI-TRUNKED TREE PLANTING
NOT TO SCALE

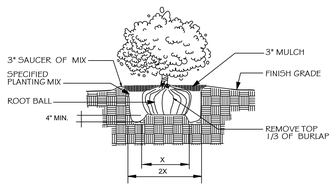


5 GROUND COVER DETAIL
NOT TO SCALE

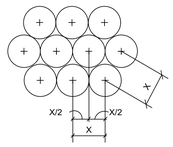


NOTE: TRENCH EDGE TO BE LOCATED BETWEEN PLANTING BEDS, AROUND TREE PITS AND ALL LAWN AREAS.

6 BED EDGE DETAIL FOR ALL BEDS
NOT TO SCALE



7 B&B SHRUB DETAIL
NOT TO SCALE



NOTES: 1. SEE PLANTING PLANS FOR SHRUB & GROUNDCOVER BED AREAS.
2. ROWS SHALL BE STRAIGHT & PARALLEL.
3. SPACING SHOWN ON PLANT SCHEDULE (X).

8 DETAIL TYPICAL STAGGERED ROW SPACING
NOT TO SCALE

GENERAL PLANTING NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITE INSPECTION PRIOR TO LANDSCAPE CONSTRUCTION AND INSTALLATION IN ORDER TO ACQUAINT THEMSELF WITH EXISTING CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES BEFORE BEGINNING CONSTRUCTION.
2. CONTRACTOR SHALL PROVIDE A SOILS TEST REPORT OF MATERIAL TO BE USED FOR PLANTING BACKFILL INCLUDING TOPSOIL.
3. CONTRACTOR SHALL VERIFY PLANT SCHEDULE COUNT FROM PLAN TOTALS AND REPORT DIFFERENCES PRIOR TO BEGINNING.
4. ALL TREES AND SPECIMEN PLANT MATERIAL SHALL BE LOCATED BY THE CONTRACTOR AT NURSERIES.
5. ALL PLANT MATERIALS ARE SUBJECT TO APPROVAL OR REFUSAL BY THE LANDSCAPE ARCHITECT AT THE JOB SITE.
6. CONTRACTOR SHALL LAYOUT TREES AND SHRUBS FOR REVIEW BY LANDSCAPE ARCHITECT PRIOR TO PLANTING. A MINIMUM 24 HOUR NOTICE SHOULD BE GIVEN AND ANTICIPATED BY THE CONTRACTOR FOR THIS REVIEW.
7. GRADE ALL AREAS FOR APPROVAL BY LANDSCAPE ARCHITECT BEFORE SODDING.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING 3% POSITIVE DRAINAGE IN ALL PLANT AREAS.
9. PLANTS SHALL BE WELL FORMED, VIGOROUS, GROWING SPECIMENS WITH GROWTH TYPICAL OF VARIETIES SPECIFIED AND SHALL BE FREE FROM INJURY, INSECTS AND DISEASES. PLANTS SHALL EQUAL OR SURPASS QUALITY AS DEFINED "AMERICAN STANDARD FOR NURSERY STOCK", ANSI Z60.1 CURRENT EDITION.
10. ALL PLANT MATERIAL SHALL BE CONTAINER GROWN OR BALED & BURLAPPED, NO BARE ROOT.
11. ALL SHRUBS, TREES AND GROUND COVERS SHALL BE PLANTED WITH A SOIL MIXTURE CONSISTING OF 50% TOPSOIL AND 50% ORGANIC MATERIAL PER SPECIFICATIONS.
12. FRONT ROW OF SHRUBS SHALL BE PLANTED A MINIMUM OF 24" BEHIND BED LINE AT LAWNS OR WALKS AND A MINIMUM OF 36" BACK OF CURB AT PARKING SPACES.
13. BACK ROW OF SHRUB PLANTING SHALL BE PLANTED AT 36" OFF FACE OF BUILDING WALL, GROUNDCOVERS SHALL BE 12" OUT FROM BUILDING AS REQUIRED BY PLANT SPECIFICATIONS.
14. ALL PLANTING BEDS ON SLOPES STEEPER THAN 4:1 SHALL BE MULCHED WITH A 3" SETTLED LAYER OF PINE STRAW MULCH, EXCEPT FOR GROUNDCOVERS WHICH SHALL RECEIVE 3" OF SHREDDED PINE BARK. ALL OTHER PLANTING BEDS AND TREE BALLS ON SLOPES LESS THAN 4:1 SHALL RECEIVE A DEPTH OF PINE BARK AS SPECIFIED ABOVE.
15. GRASS: ALL AREAS TO BE GRASSED SHALL BE TILLED AND GRADED TO A DEPTH OF 6". SLAG OF LIME SHALL BE APPLIED AT A RATE OF 100 POUNDS PER 1000 SQ. FT. ADD TURF GREEN OR EQUAL (12-5-8 SLOWRATE) AT A RATE OF 50 POUNDS PER 1000 SQ. FT.. SEEDED AREAS SHALL BE COVERED WITH A THIN LAYER OF WHEAT STRAW.
16. CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL, INCLUDING GRASS FOR ONE FULL YEAR FROM DATE OF SUBSTANTIAL COMPLETION. (SEE SPECS.)
17. ALL NEWLY PLANTED PLANT MATERIAL SHALL BE FERTILIZED, AT TIME OF PLANTING, BY MEANS OF SLOW-RELEASE, HIGH-NITROGEN FORM FERTILIZER TABLETS. SUBMIT TECHNICAL INFORMATION FOR LANDSCAPE ARCHITECT'S REVIEW.
18. ALL YARD INLETS INSIDE PLANT BEDS SHALL HAVE A PINESTRAW EDGE SURROUNDING EACH INLET IN ORDER TO PREVENT BARK MULCH AND OTHER DEBRIS WASHING INTO STORM DRAIN SYSTEM.
19. PRIOR TO INSTALLATION OF PLANT MATERIAL, A PRE-EMERGENT SOLUTION SHALL BE APPLIED TO ALL AREAS TO RECEIVE SOD, GROUNDCOVER, TREES, AND SHRUBS. PRE-EMERGENT SHALL BE APPLIED PER MANUFACTURERS SPECIFICATION.
20. REMOVE ALL GUY STRAPS AND STAKES AT END OF ONE YEAR GUARANTEE PERIOD.
21. CONTRACTOR SHALL PROVIDE AND INSTALL 'TERRA-SORB' IN EACH PLANT HOLE PER MANUFACTURES RECOMMENDATION.
22. *SEASONAL COLOR PLANTING: SEE SPECS, SECTION 32 9000 SITE PLANTING - PART 3-EXECUTION, SECTION AA-SEASONAL COLOR BEDS.

Kelly
Landscape Architects

STATE OF ALABAMA
CHARLES A. KELLY, JR.
NUMBER 333
REGISTERED LANDSCAPE ARCHITECT
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PLANTING DETAILS & NOTES

JASPER WATERWORKS &- NEW BUILDING
3877 INDUSTRIAL PKWY
JASPER, ALABAMA

L2.1

GENERAL NOTES

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number **25-203**

1.0 DESIGN CRITERIA

1.1 CODES AND SPECIFICATIONS:

A. GENERAL BUILDING CODE:
INTERNATIONAL BUILDING CODE, 2021 EDITION

B. CONCRETE:
BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 318-19

C. ARCHITECTURAL PRECAST CONCRETE:
PCI MNL-122 ARCHITECTURAL PRECAST CONCRETE, LATEST EDITION

PCI MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTION OF ARCHITECTURAL PRECAST CONCRETE PRODUCTS, LATEST EDITION

D. STRUCTURAL STEEL:
SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION ANSI/AISC 360-16

E. STEEL DECK:
STEEL DECK INSTITUTE DESIGN MANUALS FOR COMPOSITE DECKS, NON-COMPOSITE DECKS, AND ROOF DECKS, LATEST EDITIONS

F. MASONRY:
SPECIFICATIONS FOR MASONRY STRUCTURES TMS 602-16

BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES TMS 402-16

NATIONAL CONCRETE MASONRY ASSOCIATION'S STANDARD PRACTICES AND "SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY", LATEST EDITION

G. TIMBER:
NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, AMERICAN FOREST AND PAPER ASSOCIATION AWC NDS 2018 & AWC SDPWS 2021

H. COLD-FORMED STEEL FRAMING:
NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AMERICAN IRON AND STEEL INSTITUTE AISI S100-16(2020) W/S2-20

I. (PREFABRICATED) METAL BUILDING
MBMA'S (METAL BUILDING MANUFACTURERS ASSOCIATION'S) METAL BUILDING SYSTEMS MANUAL, LATEST EDITION

MBMA'S METAL ROOFING SYSTEMS DESIGN MANUAL, LATEST EDITION

1.2 DESIGN GRAVITY LOADS (PSF):

A. DEAD LOADS:
ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE GENERAL CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.

B. FLOOR LIVE LOADS:

FLOOR	100
CATWALKS AND MEZZANINE (TYPICA)	50
MEZZANINE (LINES 2.5 TO 4)	125
OTHER AREAS	100
SHELTER FLOOR (UNREDUCTIBLE)	100
SHELTER ROOF (UNREDUCIBLE)	100
STORAGE	125
STAIRS & EXITWAYS	100

C. ROOF LIVE LOADS:
WHERE PERMITTED ROOF LIVE LOADS ARE REDUCED FROM THE BASE VALUE SHOWN BELOW IN ACCORDANCE WITH IBC SECTION 1607.12.

ROOF	20

D. ROOF SNOW LOADS:

GROUND SNOW LOAD (Pg)	10
IMPORTANCE FACTOR (I)	1.0
EXPOSURE FACTOR (Ce)	0.9
THERMAL FACTOR (Ct)	1.0 MAIN 1.2 SHED

1.3 DESIGN LATERAL LOADS:

A. WIND LOADS:

ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)	115MPH
NOMINAL WIND SPEED (3-SECOND GUST)	90MPH
RISK CATEGORY	II
WIND IMPORTANCE FACTOR (I)	1.0
WIND EXPOSURE CATEGORY	C
ENCLOSURE CATEGORY	ENCLOSED
INTERNAL PRESSURE COEFFICIENTS	+/- 0.18

SEE TYPICAL DETAILS FOR COMPONENT AND CLADDING LOADS

B. SEISMIC LOADS:

OCCUPANCY CATEGORY	II
SEISMIC IMPORTANCE FACTOR	1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	
SS	0.297
S1	0.112
SITE CLASS	C
SPECTRAL RESPONSE COEFFICIENTS:	
SDS	0.257
SD1	0.112
SEISMIC DESIGN CATEGORY	B

BASIC SEISMIC-FORCE-RESISTING SYSTEM; OFFICE, MEZZ(LIGHTGAGE), MEZZ(COMPOSITE)

DESIGN BASE SHEAR	7.2, 18.5, 12.1KIPS
SEISMIC RESPONSE COEFFICIENT, Cs	0.037, 0.129, 0.129
RESPONSE MODIFICATION FACTOR, R	7,2,2
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE	

C. THE FOLLOWING INFORMATION SHALL BE PROVIDED BY THE METAL BUILDING MANUFACTURER:

BASIC SEISMIC FORCE RESISTING SYSTEM
DESIGN BASE SHEAR
SEISMIC RESPONSE COEFFICIENT, Cs
RESPONSE MODIFICATION FACTOR, R
ANALYSIS PROCEDURE

D. STORM SHELTER SAFE SPACE WIND LOADS:

TYPE OF SHELTER	TORNADO
SHELTER DESIGN WIND SPEED	250 MPH
WIND IMPORTANCE FACTOR (I)	1.0
WIND EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFFICIENTS (GCpi)	+/- 0.55
TOPOGRAPHIC FACTOR (Kzt)	1.0
DIRECTIONALITY FACTOR (Kd)	1.0

2.0 GENERAL CONDITIONS

2.1 THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL REFERENCE AND COORDINATE WITH OTHER DISCIPLINE'S DRAWINGS. ANY DISCREPANCIES OR OMISSIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT AND STRUCTURAL DESIGN GROUP.

2.2 ALL REPORTS, PLANS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES, AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY STRUCTURAL DESIGN GROUP AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF STRUCTURAL DESIGN GROUP. STRUCTURAL DESIGN GROUP SHALL RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.

2.3 STRUCTURAL DESIGN GROUP MAY CONSIDER TRANSFERRING COMPUTER AIDED DRAFTING FILES TO THE GENERAL CONTRACTOR'S SUBCONTRACTORS, ON A CASE-BY-CASE BASIS, FOR THEIR CONVENIENCE IN PREPARING SHOP FABRICATION DRAWINGS. FILES CAN BE TRANSFERRED UPON COMPLETION OF A CAD FILE TRANSFER AGREEMENT.

2.4 CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION.

2.5 WHERE SHOP DRAWINGS, CALCULATIONS, OR SUBMITTALS ARE CALLED FOR IN THE PROJECT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND ARE NOT PROVIDED BY THE CONTRACTOR, THE CONTRACTOR ASSUMES TOTAL RESPONSIBILITY FOR THE DESIGN AND ASSOCIATED WORK.

2.6 ENGINEER'S SHOP DRAWING REVIEW IS LIMITED TO REVIEW FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT REFLECTED IN THE STRUCTURAL PORTION OF THE CONTRACT DOCUMENTS. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE DRAWINGS, SPECIFICATIONS OR OTHER PROJECT CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED OR IMPLIED FOR THE CORRECTNESS OF DIMENSIONS OR DETAILS. THIS REVIEW DOES NOT AUTHORIZE CHANGES TO THE CONTRACT SUM UNLESS STATED IN A SEPARATE WRITTEN FORM OR CHANGE ORDER. THE CONTRACTOR SHALL CONFIRM AND CORRELATE ALL QUANTITIES AND DIMENSIONS, SELECT FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATE HIS WORK WITH THAT OF OTHER TRADES, AND PERFORM HIS WORK IN A SAFE AND SATISFACTORY MANNER. THE CONTRACTOR SHALL ALSO REFER TO THE REQUIREMENTS OF THE GENERAL AND SUPPLEMENTARY GENERAL CONDITIONS.

2.7 ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED.

2.8 VERIFY ALL DIMENSIONS AND DETAILS SHOWN ON THESE DRAWINGS. ANY DISCREPANCIES OR OMISSIONS FOUND SHALL BE REPORTED TO THE ENGINEER AND OTHER DESIGN PROFESSIONALS AS APPROPRIATE FOR RESOLUTION PRIOR TO PROCEEDING WITH ANY RELATED WORK.

2.9 THESE DRAWINGS DO NOT INCLUDE PROVISIONS TO SATISFY JOB SITE SAFETY REQUIREMENTS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING SAFETY DURING CONSTRUCTION AND FOR CONFORMANCE TO ALL APPLICABLE OSHA STANDARDS. JOBSITE VISITS BY ENGINEER SHALL NOT CONSTITUTE APPROVAL, AWARENESS OR LIABILITY FOR ANY HAZARDOUS CONDITIONS.

2.10 STRUCTURAL DESIGN GROUP IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, SAFETY PROCEDURES, CONSTRUCTION SUPERVISION OR SITE SAFETY, AND DOES NOT HAVE THE AUTHORITY TO STOP WORK FOR THESE ITEMS. DRAWINGS FURTHER DO NOT PROVIDE ENGINEERING CONTROLS FOR SILICA STANDARD OR ANY OTHER SAFETY STANDARD.

2.11 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR BRACING AND SHORING ALL EXCAVATIONS, DEWATERING OF EXCAVATION FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE, TEMPORARY AND EXISTING STRUCTURES, AND PARTIALLY COMPLETED PORTIONS OF THE WORK TO ASSURE THE SAFETY OF ANY PERSON COMING IN CONTACT WITH THE WORK.

2.12 THE STRUCTURAL INTEGRITY OF THE BUILDING IS DEPENDENT UPON COMPLETION ACCORDING TO THE PLANS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER OF RECORD ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION. THE METHOD OF CONSTRUCTION AND SEQUENCE OF OPERATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUPPLY ANY NECESSARY BRACING, GUYS, ETC. TO PROPERLY BRACE THE STRUCTURE AGAINST WIND, DEAD AND LIVE LOADS UNTIL THE BUILDING IS COMPLETED ACCORDING TO THE PLANS AND SPECIFICATIONS. ANY QUESTIONS REGARDING TEMPORARY BRACING REQUIREMENTS SHOULD BE FORWARDED TO A STRUCTURAL ENGINEER FOR REVIEW.

2.13 MECHANICAL UNITS AND ANY OTHER EQUIPMENT SUPPORTED BY THE STRUCTURE WITH WEIGHTS IN EXCESS OF 200 LBS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

2.14 WHERE NOTED IN DRAWINGS AND SPECIFICATIONS TO INSTALL PRODUCTS PER THE MANUFACTURER'S RECOMMENDATIONS, IT SHALL BE REQUIRED THAT THE CONTRACTOR FOLLOWS THE MANUFACTURER'S RECOMMENDATIONS.

2.15 STRUCTURAL OBSERVATION IS VISUAL OBSERVATION OF THE IN PLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT THE TIME OF THE OBSERVATION AND SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TESTING AND SPECIAL INSPECTIONS PER THE REQUIREMENTS IN THE PROJECT DOCUMENTS.

2.16 OBSERVATION BY THE STRUCTURAL ENGINEER OF RECORD'S OFFICE DOES NOT REPLACE INSPECTIONS AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR.

2.17 ANY CLAIMS FOR DELAYS OR DAMAGES SHALL BE SENT TO THE OWNER, ARCHITECT AND STRUCTURAL ENGINEER IN A STANDALONE LETTER TITLED 'DELAY/DAMAGE NOTICE' WITHIN 48 HOURS OF THE CONTRACTOR LEARNING OF THE CLAIM. CLAIMS EMBEDDED IN DAILY REPORTS WILL NOT BE CONSIDERED.

3.0 FOUNDATIONS

3.1 GEOTECHNICAL REPORT: FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY TERRACON, TITLED "PROPOSED JASPER WATERWORKS FACITY PROJECT NO. LT265042" ALONG WITH ANY SUPPLEMENTAL CORRESPONDENCE. THE GENERAL CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT FROM THE OWNER AND FOLLOW ALL REQUIREMENTS AND RECOMMENDATIONS. GEOTECHNICAL RECOMMENDATIONS SHALL TAKE PRECEDENCE OVER THE ITEMS THAT FOLLOW IN THIS SECTION OF THE STRUCTURAL GENERAL NOTES.

3.2 MAXIMUM ALLOWABLE BEARING PRESSURE PER GEOTECHNICAL REPORT, 2000 PSF MAIN BUILDING, 1000 PSF SHED BUILDING.

3.3 ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE THEIR COMPLIANCE WITH PRESSURES NOTED. ALL FOOTING ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.

3.4 COMPACTED FILL WITHIN THE BUILDING AREA (AND EXTENDING 10'-0" OUTSIDE THE EXTERIOR BUILDING LINE) SHALL MEET THE REQUIREMENTS NOTED IN THE GEOTECHNICAL REPORT.

3.5 GRANULAR BACKFILL SUPPORTING A FOOTING SHALL BE COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. PROVIDE A 12" THICK CAP OF PROPERLY COMPACTED CRUSHER RUN STONE BETWEEN THE FOOTING AND THE PROPERLY COMPACTED GRANULAR BACKFILL. EXTEND CRUSHER RUN CAP TWO FEET BEYOND THE PERIMETER OF THE FOOTING OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

3.6 WHERE SPREAD FOOTINGS ARE AT THE SAME ELEVATION AS CONTINUOUS WALL FOOTINGS, REINFORCING STEEL IN CONTINUOUS WALL FOOTINGS SHALL EXTEND THRU SPREAD FOOTINGS. WHERE SPREAD FOOTINGS ARE BELOW CONTINUOUS WALL FOOTINGS, CONTINUOUS WALL FOOTINGS ARE TO STEP DOWN ONTO SPREAD FOOTINGS.

3.7 SUBGRADE AND GRANULAR FILL SUPPORTING SLABS ON GRADE SHALL BE AS RECOMMENDED BY THE GEOTECHNICAL REPORT AND COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. SEE SPECIFICATIONS FOR VAPOR RETARDER BENEATH SLABS ON GRADE

3.8 GRANULAR FILL BENEATH SLABS, UNLESS NOTED OTHERWISE, SHALL BE 4" COMPACTED #57 STONE.

3.9 VAPOR RETARDER BENEATH INTERIOR SLABS ON GRADE, UNLESS NOTED, SHALL MEET ASTM E 1745, CLASS A, 15 MIL MINIMUM THICKNESS WITH MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE-SENSITIVE TAPE AND PIPE BOOTS, SUCH AS W.R. MEADOWS INC. PRODUCT PERMINATOR 15.

3.10 NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (TWO HORIZONTAL TO ONE VERTICAL) TO A FOOTING.

4.0 CONCRETE

4.1 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.

4.2 CONCRETE STRENGTH AND DURABILITY REQUIREMENTS: MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS (PSI), TYPE OF CONCRETE, MAXIMUM WATER/CEMENTITIOUS RATIO, AIR CONTENT, SLUMP, AND CONCRETE USE:

STRENGTH	TYPE	MAX W/C	AIR	SLUMP	USE
3000	NORMAL WT.	0.57	----	3" TO 5"	FOOTINGS
3500	NORMAL WT.	0.50	----	3" TO 5"	SLABS
3500	NORMAL WT.	0.50	4-6%	3" TO 5"	SLABS ON METAL DECK
3500	NORMAL WT.	0.50	4-6%	3" TO 5"	SLAB AT SHED

A. CONCRETE MIX DESIGN SHALL BE WORKABLE WITH LOWEST TOTAL WATER PER CUBIC YARD USING LARGEST PRACTICAL MAXIMUM SIZE OF COURSE AGGREGATE.

4.3 REINFORCING BARS: ASTM A615 GRADE 60.

4.4 PLATE DOWELS AND DOWEL BASKETS:

A. CONSTRUCTION JOINTS AT SHED:
1. PLATE DOWELS SHALL CONSIST OF SMOOTH STEEL GALVANIZED PLATE BARS, ASTM A36 STEEL BY ONE OF THE FOLLOWING: GREENSTREAK GROUP, INC., ST. LOUIS, MO (800) 325-9504 - OR - "SPEED PLATE" OR PNA - "DIAMOND DOWEL"

B. CONTRACTION JOINTS AT SHED:
1. PLATE DOWEL BASKET ASSEMBLY SHALL CONSIST OF SMOOTH STEEL GALVANIZED PLATE BARS, ASTM A36, AND WIRE SIDE FRAME SUPPORTS BY ONE OF THE FOLLOWING: GREENSTREAK GROUP, INC., ST. LOUIS, MO (800) 325-9504 - OR - "DOUBLE TAPERED BASKET" OR PNA - "PD3 BASKET"

C. DOWELED JOINT INSTALLATION: INSTALL DOWEL BARS AND SUPPORT ASSEMBLIES AT JOINTS WHERE INDICATED. LUBRICATE OR ASPHALT COAT ONE-HALF OF DOWEL LENGTH TO PREVENT CONCRETE BONDING TO ONE SIDE OF JOINT. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PLACEMENT OF PLATE TYPE DOWELS AND DOWEL BASKETS.

4.5 REINFORCING STEEL SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.

4.6 REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS.

4.7 DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315. REINFORCEMENT SHALL NOT BE WELDED, UNLESS NOTED OR APPROVED BY THE ENGINEER.

4.8 ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.

4.9 ALL REINFORCING MARKED "CONT." INDICATES REINFORCING SHALL BE "CONTINUOUS" AND SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.

4.10 PROVIDE CORNER BARS AT ALL CORNERS OF CONTINUOUS REINFORCING IN FOOTINGS, SLABS, OR WALLS. CORNER BARS SHALL BE LONG ENOUGH TO PROVIDE A CLASS "B" LAP SPLICE OF REINFORCING BARS.

4.11 CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED:

FOOTINGS	2" TOP & 3" BOTTOM & SIDES
GRADE BEAMS	2" TOP & 3" BOTTOM & SIDES
SLAB FACES NOT EXPOSED TO WEATHER OR EARTH	3/4"
SLAB FACES EXPOSED TO WEATHER	
A. #5 AND LESS	1-1/2"
B. #6 AND GREATER	2"
SLAB FACES EXPOSED TO WEATHER	1"

4.12 CONTINUOUS WALL FOOTINGS: 1'-0" THICK, REINFORCED WITH 2#5 CONTINUOUS AND #3 TIES @ 4'-0", UNLESS SHOWN OTHERWISE.

4.13 WALL VERTICAL REINFORCING: DOWEL TO FOUNDATION WITH HOOKED BARS OF SAME SIZE AND SPACING AS VERTICAL REINFORCING.

4.14 WELDED WIRE REINFORCEMENT (WWR): ASTM A1064, MINIMUM LAP AND EMBEDMENT TO BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2 INCHES OR 8 INCHES.

4.15 EARTH SUPPORTED SLABS:

4" THICK (UNLESS NOTED), REINFORCED WITH 6X6 W2.9/W2.9 WWR FLAT SHEETS SUPPORTED 2" CLEAR OF TOP OF SLAB, UNLESS NOTED. WWR TO BE CHAIRED AT 36 INCHES EACH WAY MINIMUM. SEE FOUNDATION NOTES FOR SUBGRADE REQUIREMENTS.

6" THICK (UNLESS NOTED), REINFORCED WITH 4X4 W4.0/W4.0 WWR FLAT SHEETS SUPPORTED AT MID-DEPTH OF TOP OF SLAB, UNLESS NOTED. WWR TO BE CHAIRED AT 36 INCHES EACH WAY MINIMUM. SEE FOUNDATION NOTES FOR SUBGRADE REQUIREMENTS.

7" THICK (UNLESS NOTED), REINFORCED WITH TWO LAYERS OF 4X4 W4.0/W4.0 WWR FLAT SHEETS SUPPORTED 2" CLEAR OF TOP AND BOTTOM OF SLAB, UNLESS NOTED. WWR TO BE CHAIRED AT 36 INCHES EACH WAY MINIMUM. SEE FOUNDATION NOTES FOR SUBGRADE REQUIREMENTS.

FLOOR DESIGN AND CONSTRUCTION BASIS IS ACI 302 AND 360, AND IT IS UNREALISTIC TO EXPECT CRACK-FREE OR CURL-FREE FLOORS. IT IS NORMAL TO EXPECT SOME AMOUNT OF CRACKING AND CURLING IN THE SLAB ON GRADE, AND SUCH OCCURRENCE DOES NOT NECESSARILY REFLECT ADVERSELY ON EITHER THE ADEQUENCY OF THE FLOOR DESIGN OR THE QUALITY OF ITS CONSTRUCTION.

EARTH SUPPORTED SLABS SHALL BE MOIST CURED FOR A MINIMUM OF SEVEN DAYS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. CURING COMPOUNDS, UNLESS NOTED, SHALL BE A MINIMUM OF CLEAR, WATERBORNE, MEMBRANE-FORMING CURING COMPOUND MEETING ASTM C 309, TYPE 1, CLASS B, SELF-DISSIPATING, CERTIFIED BY CURING COMPOUND MANUFACTURER TO NOT INTERFERE WITH BONDING OF FLOOR COVERING.

WHERE CONTROL JOINTS TERMINATE INTO NON-PARALLEL CONTROL JOINTS, PROVIDE 2#4 X 6'-0" BARS MID DEPTH OF SLAB PERPENDICULAR TO TERMINAL CONTROL JOINT.

PROVIDE 2#4 X 6'-0" BARS MID DEPTH OF SLAB AT REENTRANT CORNERS.

WHERE CONTROL JOINTS TERMINATE AT EMBEDDED STEEL ELEMENTS PROVIDE JOINT IN STEEL ELEMENT.

4.16 FORMED SLABS SHALL HAVE NO HORIZONTAL JOINTS.

4.17 CONTRACTION JOINTS IN WALLS: WALL JOINTS SHALL NOT BE SPACED FARTHER THAN 15 FEET FOR 8" WALLS, 20 FEET FOR 10" WALLS AND 30 FEET FOR 12" WALLS. WALL JOINTS SHALL ADDITIONALLY NOT BE LOCATED WITHIN 4'-0" OF EMBED PLATES OR CORNERS OF THE WALL. DISCONTINUE 50% OF THE WALL HORIZONTAL REINFORCING THROUGH JOINTS; TRIMMING BACK TO THE REINFORCING BARS 2" FROM THE CONTROL JOINT LOCATION. LOCATE CONTROL JOINTS EACH SIDE OF THE WALL. SEAL JOINTS WITH ELASTOMERIC SEALANT. SEE WALL CONTRACTION JOINT TYPICAL DETAILS. AT VAULT AND SHELTER STRUCTURES, DO NOT PROVIDE CONTROL JOINTS.

4.18 NO CONDUIT OR PIPE SHALL BE CAST IN THE SLAB WITHOUT THE WRITTEN APPROVAL OF STRUCTURAL DESIGN GROUP.

4.19 WALL AND SLAB OPENINGS AND SLEEVES SMALLER THAN 12" (IN LARGER DIMENSION) ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL SUBMIT ALL OPENINGS (SIZE AND LOCATIONS) AS A SINGLE COORDINATED SLEEVE PLAN FOR REVIEW AND APPROVAL.

4.20 CAST IN PLACE ALL SLEEVES AND INSERTS.

5.0 ARCHITECTURAL PRECAST CONCRETE

5.1 REFER TO ARCHITECT'S DRAWINGS AND SPECIFICATIONS FOR DIMENSIONAL, FINISHING, AND OTHER REQUIREMENTS OF THE ARCHITECTURAL PRECAST.

5.2 PRECAST MANUFACTURER IS TO BE RESPONSIBLE FOR THE DESIGN OF ALL PRECAST MEMBERS AND THEIR CONNECTIONS TO THE STRUCTURE. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ALABAMA.

5.3 ANY CONNECTIONS SHOWN ON CONTRACT DRAWINGS ARE SHOWN FOR GENERAL ARRANGEMENT ONLY. THE CONTRACTOR SHALL COORDINATE ALL PRECAST CONNECTIONS AND EMBEDDED ITEMS WITH THE PRECAST MANUFACTURER.

5.4 ERECTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY BRACING UNTIL ALL CONNECTIONS HAVE BEEN MADE.

5.5 PRECAST MANUFACTURER SHALL PROVIDE STABILIZING ANGLES AND SIMILAR MISCELLANEOUS METALS, AS REQUIRED, FOR ALL PRECAST WORK.

5.6 ALL EXPOSED STEEL CONNECTIONS AND SUPPORT ANGLES, PLATES, BARS AND BOLTS IN CONJUNCTION WITH ALL PRECAST CONCRETE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION AND FIELD TOUCHED UP WITH ZINC RICH PAINT.

5.7 ADJUSTMENT AND POSSIBLY RESETTING OF PRECAST MAY BE REQUIRED TO ALIGN PRECAST DUE TO SUPPORT DEFLECTION AND/OR ROTATION.

5.8 SUPPORTING BEAMS AND STRUCTURE WILL DEFLECT AND/OR ROTATE. PRECAST MANUFACTURER AND ERECTOR SHALL COORDINATE CONNECTION/ERECTION SEQUENCE TO ACCOUNT FOR THIS MOVEMENT AND MAKE FINAL ADJUSTMENTS TO ALIGN AND PLUMB PRECAST. THIS MAY REQUIRE ADJUSTING CONNECTIONS OR RECONNECTING.

6.0 STRUCTURAL STEEL

6.1 FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

6.2 THE STEEL FRAME IS "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE.

6.3 STRUCTURAL STEEL: ASTM A992 FOR WIDE FLANGE BEAMS AND COLUMNS AND STEEL CHANNELS; A572 FOR S, M, HP SHAPES AND STEEL ANGLES; ASTM A36 FOR STIFFENER PLATES, BASE PLATES, COLUMN CAP PLATES, BEAM CONNECTION PLATES.

6.4 HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500, GRADE C.

6.5 STRUCTURAL STEEL PIPE: ASTM A53, GRADE B.

6.6 WELDED CONNECTIONS: E70XX ELECTRODES, MINIMUM SIZE FILLET WELD 3/16". WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.1, THE STRUCTURAL WELDING CODE - STEEL.

6.7 THREADED AND PLAIN STEEL RODS: ASTM A36

6.8 STAINLESS STEEL THREADED RODS: ASTM F593 AISI 304 OR 316

6.9 ANCHOR RODS: ASTM F1554 GRADE 36 ANCHOR AND HEAVY HEX NUT OR ASTM F1554 GRADE 55 ANCHOR AND HEAVY HEX NUT WITH SUPPLEMENTARY REQUIREMENT S1, UNLESS OTHERWISE INDICATED.

A. IF ANCHOR ROD ASSEMBLIES ARE NOT ENCASED IN MINIMUM OF 3" OF CONCRETE, ANCHOR ROD ASSEMBLIES ARE TO BE HOT-DIP GALVANIZED.

6.10 HEADED STUDS: TYPE B SHEAR STUD CONNECTORS MADE FROM ASTM A108, GRADE 1015 OR 1020, COLD-FINISHED CARBON, AND COMPLYING WITH AWS D1.1.

6.11 CONNECTIONS:

A. BEARING TYPE A325-N IN ACCORDANCE WITH RCSC (LRFD OR ASD VERSION) "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". BOLTS THROUGH 4" WIDE BEAM FLANGES SHALL BE 5/8" DIAMETER. OTHERWISE, BOLTS SHALL BE 3/4" DIAMETER.

B. USE SNUG TIGHT BEARING CONNECTIONS FOR ALL BOLTED CONNECTIONS.

C. BOLTS SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT BOLTS MAY BE USED. ACTUAL NUMBER, UNLESS SPECIFIED, TO BE IN ACCORDANCE WITH AISC.

D. ALL STRUCTURAL STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST FORCES INDICATED, BY THE CONTRACTOR.

1. WHERE BEAM REACTIONS ARE SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL DEVELOP THE REACTIONS SHOWN. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING AND DETAILING THE CONNECTION.

E. DESIGN CALCULATIONS FOR THE CONNECTIONS DESIGNED BY THE CONTRACTOR SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. SHOP DRAWINGS CONTAINING CONNECTIONS FOR WHICH CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.

6.12 ALL STRUCTURAL STEEL, INCLUDING EXPOSED BOLTS, NUTS, WASHERS OR ANCHOR RODS, EXPOSED TO WEATHER IN THE FINAL CONFIGURATION OF THE STRUCTURE SHALL BE HOT-DIP GALVANIZED, UNLESS NOTED OTHERWISE, PER ASTM A123/A123M. VENT HOLES SHALL BE FILLED AND GROUND SMOOTH AFTER GALVANIZING. DAMAGE TO GALVANIZING SHALL BE PAINTED WITH GALVANIZING REPAIR PAINT, SSPC-PAINT 20.

6.13 WHERE STEEL BEAMS ARE CONTINUOUS OVER COLUMNS, PROVIDE WEB STIFFENER PLATES EACH SIDE OF BEAM WEB, OF THICKNESS EQUAL TO BEAM FLANGE THICKNESS, LOCATED IN ALIGNMENT WITH COLUMN WEB OR FLANGES OR CENTER LINE OF HSS COLUMNS.

6.14 PROVIDE 1/4" THICK CLOSURE PLATES ON THE ENDS OF HSS BEAMS. SHOP WELD ALL AROUND TO BEAM WITH 1/8" SEAL WELD.

6.15 ALL STEEL EXPOSED TO WEATHER, INCLUDING STEEL LINTELS FOR MASONRY OPENINGS, EXCEPT STEEL HAVING A CORROSION RESISTANT OR OTHER APPROVED COATING, SHALL BE PROTECTED AGAINST CORROSION WITH AN APPROVED COAT OF PAINT, ENAMEL, OR OTHER APPROVED PROTECTION.

6.16 STEEL STAIRS AND ASSOCIATED EMBEDS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST THE PROJECT DESIGN LOADS INDICATED ABOVE, BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. STAIRS SHALL BE DESIGNED IN ACCORDANCE WITH THE NAAMM METAL STAIR MANUAL AND AISC, AND AS LISTED BELOW. CALCULATIONS SHALL BEAR THE SEAL OF THE PROFESSIONA

GENERAL NOTES

8.18 PROVIDE HORIZONTAL JOINT REINFORCING IN REINFORCED MASONRY WALLS AS DIRECTED BY THE ARCHITECT. AT WALL CORNERS AND INTERSECTIONS, PROVIDE PREFABRICATED T AND L SHAPES, FIELD BENDING IS NOT PREMITTED. MINIMUM OF LADDER TYPE ZINC COATED CONFORMING TO ASTM A82 HOHMANN & BARNARD 220 LADDER-MESH OR EQUIVALENT AT EVERY OTHER BLOCK COURSE ABOVE FOOTING. REINFORCEMENT SHOULD CONSIST OF TWO OR MORE LONGITUDINAL WIRES, NO. 9 GAUGE OR LARGER, WELDED WITH NO. 9 GAUGE OR LARGER CROSS WIRES. LAP SPLICE HORIZONTAL JOINT REINFORCING A MINIMUM OF 12".

8.19 PROVIDE GROUT FILLED LINTEL BLOCKS AT TOP OF ALL CMU WALLS REINFORCED WITH 2#4 BARS CONTINUOUS, UNLESS NOTED OTHERWISE.

8.20 CONDUITS, REFRIGERANT PIPING (WITH ANY REQUIRED INSULATION INCLUDED), CONDENSATE DRAIN LINES, ETC. UP TO 2" IN OUTSIDE DIAMETER MAY EXTEND CONTINUOUS THRU MASONRY WALLS & BOND BEAMS. COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING, ETC. DRAWINGS FOR SIZE AND LOCATION. DO NOT INTERRUPT CONTINUOUS REINFORCING STEEL IN PLACEMENT OF CONDUITS, PIPING, DRAIN LINES, ETC.

8.21 THE MASONRY WALLS ARE "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE. BRACING SHALL BE PER THE FOLLOWING, AND CONTRACTOR SHALL PROVIDE ADDED REINFORCING AND GROUT IF REQUIRED BY THE BRACING.

A. THE "2012 STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION".
B. THE "MASONRY WALL BRACING HANDBOOK" AS PUBLISHED BY THE MASON CONTRACTORS ASSOCIATION OF AMERICA (MCAA) SHOULD BE USED IN CONJUNCTION WITH THE "STANDARD PRACTICE".

8.22 PROVIDE 2 COURSES OF GROUT FILLED OPEN BOTTOM BOND BEAM BLOCKS REINFORCED WITH 2#5 BARS CONTINUOUS AT ALL STEEL STAIR ATTACHMENT LOCATIONS, UNLESS NOTED OTHERWISE. CONTRACTOR COORDINATE EXACT LOCATIONS WITH STEEL STAIR DESIGNER.

8.23 TOP OF WALL BEARING PLATES TO BE SET FLUSH WITH TOP OF WALL ELEVATION(S). CONTRACTOR IS TO NOTCH TOP OF WALL AS REQUIRED TO INSET BEARING PLATES.

9.0 COLD-FORMED STEEL TRUSSES

9.1 STRUCTURAL PROPERTIES OF COLD-FORMED STEEL FRAMING SHALL BE COMPUTED IN ACCORDANCE WITH AISI "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING" AND OTHER APPLICABLE AISI STANDARDS, LATEST EDITIONS.

9.2 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD-FORMED STEEL TRUSSES AND RAFTERS, SEE SPECIFICATION 05400.

9.3 IN ADDITION TO PROVIDING THE COLD-FORMED STEEL TRUSS SYSTEM CALLED FOR IN THESE DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:

A. DESIGN OF THE TRUSS SYSTEM AND RAFTER SYSTEM, COLLECTIVELY THE 'TRUSSES'.

B. ENGINEERING PROVIDED BY MANUFACTURER SHALL BE A COMPLETE PACKAGE SIMILAR TO THE "WORKS" PACKAGE PROVIDED BY AEGIS METAL FRAMING OR EQUAL.

C. DESIGN OF ALL TRUSSES & THEIR COMPONENTS, TEMPORARY AND PERMANENT BRACING, TRUSS TO TRUSS CONNECTIONS, TRUSS TO STRUCTURE CONNECTIONS, MISCELLANEOUS STEEL CLOSURE PLATES, ETC.

D. WHERE TRUSSES ARE SUPPORTED BY CONCRETE AND THE TRUSS TO STRUCTURE CONNECTION DESIGNED BY THE CONTRACTOR CALLS FOR EMBED STEEL PLATES, SUCH PLATES SHALL ALSO BE DESIGNED BY THE CONTRACTOR. THE DESIGN SHALL MEET THE PROVISIONS OF ACI 318-19 CHAPTER 17.

E. DIMENSIONED TRUSS FRAMING PLAN.

F. TRUSS ERECTION PLAN.

G. PLAN SHOWING LAYOUT AND DETAILS OF ANY TEMPORARY AND PERMANENT BRACING REQUIRED.

H. DETAILED AND DIMENSIONED PLAN SHOWING THE LOCATION AND TYPE OF EMBEDS OR CONNECTION MATERIAL REQUIRED TO ANCHOR THE TRUSSES TO THE STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS REQUIRED TO ANCHOR THE TRUSSES TO THE STRUCTURE.

I. CALCULATIONS FOR THE ABOVE SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE ENGINEER SHALL HAVE PERSONALLY SUPERVISED THE DESIGN AND PREPARATIONS OF THE CALCULATIONS. SHOP DRAWINGS CONTAINING CONNECTIONS FOR WHICH THE CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.

9.4 TRUSS MANUFACTURER SHALL DESIGN FOR THE FOLLOWING SUPERIMPOSED LOADS:

A. TOP CHORD DEAD LOAD ----------10 PSF
B. BOTTOM CHORD DEAD LOAD ----------10 PSF
C. TOP CHORD LIVE LOAD ----------20 PSF
D. BOTTOM CHORD LIVE LOAD ----------SEE PLANS AND SECTIONS FOR CATWALKS AND PLATFORMS

9.5 DEFLECTION LIMITS FOR MEMBERS:

A.	SOFFITS:	DL L/240	LL L/360	TL L/180
B.	ROOF:	DL L/240	LL L/360	TL L/180
C.	END WALL GABLES SUPPORTING BRICK:	HORIZONTAL DEFLECTION OF L/600		
D.	END WALL:	HORIZONTAL DEFLECTION OF L/360		

9.6 DESIGN TRUSSES TO RESIST THE WIND UPLIFT LOADING FROM THE COMPONENTS AND CLADDING WIND LOAD TABLE PROVIDED IN THE TYPICAL DETAILS.

9.7 IN ADDITION TO THE ABOVE LOADS, TRUSSES SHALL BE DESIGNED FOR CONCENTRATED LOADS HUNG FROM OR SUPPORTED BY TRUSSES. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR LOADING INFORMATION AND LOCATION. LOADING AS REQUIRED BY OTHER SUBCONTRACTORS, SUCH AS FIRE PROTECTION, SHALL BE COORDINATED BY THE GENERAL CONTRACTOR.

9.8 ALL TEMPORARY AND PERMANENT BRACING MEMBERS AND CONNECTIONS REQUIRED FOR TRUSSES SHALL BE DETAILED ON THE TRUSS MANUFACTURER'S ERECTION PLANS. BRACING MEMBERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

9.9 TEMPORARY BRACING SHALL NOT IMPOSE ANY FORCE ON THE SUPPORTING STRUCTURE. PERMANENT BRACING FORCES SHALL BE TRANSFERRED TO THE ROOF DIAPHRAGM BY THE BRACING DESIGN PROVIDED BY THE TRUSS MANUFACTURER.

9.10 WELDED CONNECTIONS: E60XX ELECTRODES, MINIMUM SIZE FILLET WELD 1/8". WELDING QUALIFICATION, PROCEDURES, AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE - SHEET STEEL.

10.0 COLD-FORMED STEEL FRAMING (NON-LOAD BEARING)

10.1 STRUCTURAL PROPERTIES OF COLD-FORMED STEEL FRAMING SHALL BE COMPUTED IN ACCORDANCE WITH AISI "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING" AND OTHER APPLICABLE AISI STANDARDS, LATEST EDITIONS.

10.2 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD-FORMED STEEL FRAMING. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FRAMING LAYOUT, SIZES, SPACING, AND SECTIONS. THE GAGE OF THE STUDS, IF SHOWN, SHALL NOT BE REVISED UNLESS IT IS REQUIRED TO BE INCREASED AS DIRECTED BY THE COLD-FORMED STEEL DESIGN ENGINEER. COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SUBMITTED FOR FILES OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CONTRACTOR SHALL INCLUDE THE COST OF SHOP DRAWINGS AND CALCULATIONS, INCLUDING ENGINEERING FEES, IN THE BASE BID OF THE CONTRACT.

10.3 DEFLECTION LIMITS FOR MEMBERS:

A.	SOFFITS:	DL L/240	LL L/240	TL L/180
B.	WALL SUPPORTING BRICK:	HORIZONTAL DEFLECTION OF L/600		
C.	EXTERIOR WALLS:	HORIZONTAL DEFLECTION OF L/360		
D.	INTERIOR WALLS:	HORIZONTAL DEFLECTION OF L/180		

10.4 COLD-FORMED STEEL FRAMING MEMBERS SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK.

10.5 NON-LOAD BEARING COLD-FORMED STEEL FRAMING MEMBERS ABUTTING STRUCTURE SHALL HAVE VERTICAL SLIP TRACKS TO ACCOMMODATE UP TO 1-1/2" VERTICAL MOVEMENT UP OR DOWN.

10.6 VERTICAL STUDS INTERRUPTED BY WALL OPENINGS SHALL BE LOCATED EQUALLY ON EACH SIDE OF THE OPENING. PROVIDE EVEN NUMBER OF FULL HEIGHT STUDS ON EACH SIDE OF OPENING. WELD STUD FLANGES TOGETHER WITH 1/8" FILLET WELD 1" LONG SPACED AT 6" O.C.

10.7 PROVIDE WALL BRACING, CONNECTION DETAILS, WINDOW/DOOR HEADERS, ETC AS RECOMMENDED BY THE STUD MANUFACTURER FOR COLD-FORMED STEEL FRAMING MEMBERS.

10.8 TRACK SHALL BE SCREWED TO STUD WITH 2#8 TEK SCREWS EACH FLANGE, OR AS REQUIRED BY DESIGN.

10.9 WELDED CONNECTIONS: E60XX ELECTRODES, MINIMUM SIZE FILLET WELD 1/8". WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE - SHEET STEEL.

10.10 PROVIDE SHOP DRAWINGS SHOWING PLANS, ELEVATIONS AND CONNECTION DETAILS FOR ALL NON-LOAD BEARING COLD-FORMED STEEL FRAMING.

10.11 ALL CONNECTIONS OF THE COLD-FORMED STEEL FRAMING MEMBERS TO THE STRUCTURE SHALL BE FULLY DETAILED ON THE COLD-FORMED STEEL FRAMING SHOP DRAWINGS. ANY SPECIAL LOADING IMPOSED ON THE STRUCTURE SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS.

10.12 MEMBERS SHOWN ARE BASIS FOR DESIGN. ACTUAL MEMBERS TO BE DESIGNED BY LIGHT GAGE ENGINEER.

11.0 STRUCTURAL COLD-FORMED STEEL FRAMING (LOAD BEARING)

11.1 STRUCTURAL PROPERTIES OF COLD-FORMED STEEL FRAMING SHALL BE COMPUTED IN ACCORDANCE WITH AISI "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING" AND OTHER APPLICABLE AISI STANDARDS, LATEST EDITIONS.

11.2 UNLESS SPECIFICALLY DESIGNED AND DETAILED IN DRAWINGS, GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD-FORMED STEEL FRAMING. SEE ARCHITECTURAL DETAILS FOR FRAMING LAYOUT AND SECTIONS. COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SUBMITTED FOR FILES OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

11.3 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD-FORMED STEEL FRAMING. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FRAMING LAYOUT, SIZES, SPACING, AND SECTIONS. THE GAGE OF THE STUDS, IF SHOWN, SHALL NOT BE REVISED UNLESS IT IS REQUIRED TO BE INCREASED AS DIRECTED BY THE COLD-FORMED STEEL DESIGN ENGINEER. COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SUBMITTED FOR FILES OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CONTRACTOR SHALL INCLUDE THE COST OF SHOP DRAWINGS AND CALCULATIONS, INCLUDING ENGINEERING FEES, IN THE BASE BID OF THE CONTRACT.

11.4 DEFLECTION LIMITS FOR MEMBERS:

A.	SOFFITS:	DL L/240	LL L/240	TL L/180
B.	WALL SUPPORTING BRICK:	HORIZONTAL DEFLECTION OF L/600		
C.	EXTERIOR WALLS:	HORIZONTAL DEFLECTION OF L/360		
D.	INTERIOR WALLS:	HORIZONTAL DEFLECTION OF L/180		

11.5 EXTERIOR LOAD-BEARING COLD-FORMED STEEL STUDS SHALL BE EQUAL TO A 600S162-43 STUD SPACED AT 16 O.C. TRACKS SHALL BE EQUAL TO 600T150-43.

11.6 INTERIOR LOAD-BEARING COLD-FORMED STEEL STUDS SHALL BE EQUAL TO A 362S162-43 STUD SPACED AT 16 O.C. TRACKS SHALL BE EQUAL TO 362T150-43.

11.7 PROVIDE WALL BRACING, CONNECTION DETAILS, WINDOW/DOOR HEADERS, ETC AS RECOMMENDED BY THE STUD MANUFACTURER FOR COLD-FORMED STEEL FRAMING MEMBERS, OR AS REQUIRED BY DESIGN.

11.8 TRACK SHALL BE SCREWED TO STUD WITH 2#8 TEK SCREWS EACH FLANGE, OR AS REQUIRED BY DESIGN.

11.9 FASTEN TRACKS TO CONCRETE SLAB WITH HILTI HIT X-U 0.157" DIAMETER POWDER ACTUATED FASTENERS @ 24 O.C. WITH 1" EMBEDMENT, OR AS REQUIRED BY DESIGN. LOCATE A MINIMUM OF TWO (2) FASTENERS AT JAMBS.

11.10 VERTICAL STUDS SHALL BE 100% END BEARING. GAP BETWEEN THE LOAD-BEARING STUD AND THE TRACK SHALL NOT EXCEED 1/8 INCH.

11.11 VERTICAL STUDS INTERRUPTED BY WALL OPENINGS SHALL BE LOCATED EQUALLY ON EACH SIDE OF THE OPENING, OR AS REQUIRED BY DESIGN. PROVIDE EVEN NUMBER OF FULL HEIGHT STUDS ON EACH SIDE OF OPENING. WELD STUD FLANGES TOGETHER WITH 1/8" FILLET WELD 1" LONG SPACED AT 16" O.C.

11.12 WELDED CONNECTIONS: E60XX ELECTRODES, MINIMUM SIZE FILLET WELD 1/8". WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE – SHEET STEEL.

11.13 AT ALL ROOF OR GIRDER TRUSS BEARING LOCATIONS, PROVIDE (3) STUDS DIRECTLY UNDER BEARING. WELD STUD FLANGES TOGETHER WITH 1/8" FILLET WELD 1" LONG SPACED AT 6" O.C.

11.14 CEILING JOISTS SHALL BE 1000s162-54 **[VERIFY]** SPACED AT 24" **[VERIFY]** ON CENTER WITH A 1000T150-54 **[VERIFY]** CLOSURE TRACK AT PERIMETER, OR AS REQUIRED BY DESIGN. FASTEN JOISTS TO WALL TRACK WITH 2#10 TEK SCREWS. FASTEN CLOSURE TRACK TO WALL TRACK WITH #10 TEK SCREWS SPACED AT 24" O.C.

11.15 WALLS AND JOISTS SHALL BE SHEATHED WITH EITHER GYPSUM OR FRT PLYWOOD SHEATHING.

11.16 PROVIDE SHOP DRAWINGS SHOWING PLANS, ELEVATIONS AND CONNECTION DETAILS FOR ALL LOAD-BEARING COLD-FORMED STEEL FRAMING.

11.17 ALL CONNECTIONS OF THE COLD-FORMED STEEL FRAMING MEMBERS TO THE STRUCTURE SHALL BE FULLY DETAILED ON THE COLD-FORMED STEEL FRAMING SHOP DRAWINGS. ANY SPECIAL LOADING IMPOSED ON THE STRUCTURE SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS.

11.18 MEMBERS SHOWN ARE BASIS FOR DESIGN. ACTUAL MEMBERS TO BE DESIGNED BY LIGHT GAGE ENGINEER.

12.0 PREFABRICATED METAL BUILDING

12.1 METAL BUILDING MANUFACTURER SHALL BE A MEMBER OF MBMA (METAL BUILDING MANUFACTURERS ASSOCIATION) AND HAS MET THE REQUIREMENTS OF IAS (INTERNATIONAL ACCREDITATION SERVICE) AC472 ACCREDITATION CRITERIA FOR INSPECTION PROGRAMS FOR MANUFACTURERS OF METAL BUILDING SYSTEMS, WHICH IS BASED ON THE REQUIREMENTS OF CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

A. METAL BUILDING ERECTOR SHALL BE ACCREDITED UNDER THE IAS AC478 ACCREDITATION CRITERIA FOR INSPECTION PRACTICES OF METAL BUILDING ASSEMBLERS.

12.2 METAL BUILDING SHALL BE DESIGNED IN ACCORDANCE WITH THE MBMA'S METAL BUILDING SYSTEMS MANUAL & METAL ROOFING SYSTEMS DESIGN MANUAL (LATEST EDITIONS & BASED ON THE GENERAL BUILDING CODE NOTED ABOVE). THE APPLIED METAL BUILDING LIVE LOADS AND LATERAL LOADS ARE TO MEET LOADS PER THE GENERAL BUILDING CODE NOTED ABOVE.

12.3 COLLATERAL LOADS FROM COMPONENTS SUPPORTED ON OR SUSPENDED FROM THE ROOF STRUCTURE SHALL BE INCLUDED IN THE DESIGN OF THE METAL BUILDING. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND TYPE OF SUSPENDED CEILING. SEE STRUCTURAL AND MECHANICAL DRAWINGS FOR LOCATION AND MAGNITUDE OF SUPPORTED EQUIPMENT. SEE SPECIFICATIONS FOR MAGNITUDE OF MINIMUM DESIGN COLLATERAL LOADS.

12.4 ANCHOR ROD SIZE, TOTAL LENGTH, AND LOCATION BY METAL BUILDING SUPPLIER. FOR ANCHOR ROD EMBEDMENT LENGTH, SEE SHEET S102. ANCHOR RODS PURCHASED AND INSTALLED BY GENERAL CONTRACTOR.

12.5 BEFORE FOOTING INSTALLATION, THE ANCHOR ROD EMBEDMENT LENGTHS MUST BE VERIFIED. THE FOOTING DEPTH SHALL BE THE SCHEDULED DEPTH OR THE ANCHOR ROD EMBEDMENT LENGTH PLUS 3 INCHES, WHICHEVER IS GREATER.

12.6 HORIZONTAL FORCE TRANSFER FROM METAL BUILDING COLUMN BASE TO CONCRETE SHALL BE BY THE METAL BUILDING SUPPLIER.

12.7 METAL BUILDING SUPPLIER TO VERIFY COLUMN LAYOUT. ANY CHANGES MUST BE SUBMITTED FOR REVIEW OF THE FOUNDATION DESIGN BEFORE CONSTRUCTION STARTS.

12.8 GRAVITY DESIGN LOADS:

A. LIVE LOAD: 20 PSF (REDUCIBLE AT RIGID FRAME RAFTERS AND COLUMNS ONLY)
B. DEAD LOAD: WEIGHT OF THE STRUCTURE
C. COLLATERAL LOAD: INCLUDE ADDITIONAL DEAD LOADS OTHER THAN THE WEIGHT OF THE STRUCTURE FOR PERMANENT ITEMS, SUCH AS SPRINKLERS, MECHANICAL SYSTEMS, ELECTRICAL SYSTEMS, CEILINGS, LIGHTS, DUCTS, KITCHEN HOODS, OPERABLE WALLS, BASKETBALL GOALS, ETC.

12.9 DEFLECTION LIMITS FOR MEMBERS:

A. PURLINS AND RAFTERS: DL L/360 LL L/360 TL L/240
B. GIRTS: HORIZONTAL DEFLECTION OF L/240
C. OVERALL BUILDING DRIFT: H/300, WHERE "H" IS THE BUILDING EAVE HEIGHT.

12.10 ROOF PURLINS MUST BE CAPABLE OF RESISTING NET WIND PRESSURES (IN OR OUT / DOWN OR UP) ASSUMING INTERIOR FLANGE UNBRACED EXCEPT WHERE FLANGE BRACING IS PROVIDED.

12.11 THE METAL BUILDING MANUFACTURER WILL BE RESPONSIBLE FOR COMPLETE DESIGN OF THE BUILDING STRUCTURAL FRAME (INCLUDING LATERAL LOADS AND TEMPORARY BRACING) DOWN TO THE FOUNDATION. THE DESIGN SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

12.12 BEFORE THE INSTALLATION OF FOUNDATIONS, THE METAL BUILDING SUPPLIER SHALL SUBMIT DESIGN LOADS AND COLUMN REACTIONS TO THE ARCHITECT/ENGINEER FOR REVIEW. THE CURRENT FOUNDATION DESIGN HAS BEEN BASED ON PRELIMINARY METAL BUILDING REACTIONS GENERATED BY STRUCTURAL DESIGN GROUP, INC. AND AS SHOWN IN THE TYPICAL DETAILS. DIFFERENCES IN PRELIMINARY & ACTUAL REACTIONS MAY REQUIRE ADJUSTMENTS TO THE FOUNDATION SIZES AFTER REVIEWING THE FINAL METAL BUILDING COLUMN REACTIONS.

12.13 METAL BUILDING DESIGN CALCULATIONS' COVER SHEET AND ALL METAL BUILDING SHOP DRAWINGS AND ERECTION DRAWINGS SHALL BE SEALED AND SIGNED BY THE MANUFACTURER'S PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

12.14 ALL CONNECTIONS OF STRUCTURAL STEEL MEMBERS TO THE METAL BUILDING SHALL BE DESIGNED BY THE METAL BUILDING SUPPLIER TO RESIST THE FORCES INDICATED ON THE DRAWINGS. CALCULATIONS FOR THESE CONNECTIONS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW.

12.15 BLOCK MASONRY WALLS ON COLUMN LINES SHALL NOT BE CONSIDERED AS SHEAR WALLS FOR BUILDING STABILITY. FOR COLUMN DESIGN, ASSUME COLUMN UNBRACED LENGTH AS INDEPENDENT OF MASONRY WALLS.

12.16 MASONRY OR CFS FRAMED WALLS ON COLUMN LINES SHALL NOT BE CONSIDERED AS SHEAR WALLS FOR BUILDING STABILITY. FOR COLUMN DESIGN, ASSUME COLUMN UNBRACED LENGTH AS INDEPENDENT OF MASONRY AND CFS FRAMED WALLS.

12.17 ALL COLUMNS SHALL BE ANALYZED AND DESIGNED AS HAVING PINNED BASES.

12.18 EXCEPT AS OTHERWISE APPROVED BY ARCHITECT, STRUCTURAL CLEARANCES SHALL BE MAINTAINED AS CURRENTLY INDICATED IN THE CONTRACT DOCUMENTS.

12.19 STANDING SEAM STEEL DECK SHALL NOT BE CONSIDERED AS PROVIDING DIAPHRAGM RESISTANCE FOR LATERAL LOADS (WIND & SEISMIC).

12.20 METAL BUILDING ENGINEER SHALL VISIT THE JOB SITE AT LEAST ONCE EVERY TWO WEEKS DURING ERECTION TO OBSERVE INSTALLATION OF METAL BUILDING FRAMINGS AND ISSUE REPORTS TO ARCHITECT/ENGINEER.

12.21 ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS ARE SUBJECT TO APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. ALL DEVIATIONS SHALL BE EXPRESSLY LISTED AND DEFINED IN THE SHOP DRAWING SUBMITTAL. ARCHITECT AND STRUCTURAL ENGINEER ARE NOT RESPONSIBLE FOR DISCOVERY OF DEVIATIONS NOT LISTED, AND APPROVAL OF UNLISTED DEVIATIONS SHALL NOT BE IMPLIED.

13.0 WOOD CONSTRUCTION

13.1 ALL SAWN LUMBER IN CONTACT WITH SOIL, MASONRY OR CONCRETE, OR EXPOSED TO WEATHER TO HAVE A PRESERVATIVE PRESSURE TREATMENT IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD U1 (CURRENT EDITION), UNLESS WESTERN CEDAR IS USED.

13.2 CUT ENDS ON ALL TREATED LUMBER SHALL BE FIELD TREATED WITH AN APPROVED PRESERVATIVE IN ACCORDANCE WITH THE TREATMENT MANUFACTURER'S INSTRUCTIONS AND AWPA STANDARD M4 (CURRENT EDITION).

13.3 ALL LUMBER SHALL BE KILN DRIED TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT, INCLUDING PRESERVATIVE TREATED LUMBER.

13.4 ALL SCREWS, BOLTS, AND NAILS FOR USE WITH PRESERVATIVE TREATED WOOD SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED STEEL OR STAINLESS STEEL. FASTENERS TO BE HOT-DIPPED GALVANIZED SHALL MEET THE REQUIREMENTS OF ASTM A153, CLASS D FOR 3/8" DIAMETER OR SMALLER AND CLASS C FOR FASTENERS WITH DIAMETERS OVER 3/8".

13.5 FASTENERS OTHER THAN NAILS AND TIMBER RIVETS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B695, CLASS 55, AT A MINIMUM.

13.6 METAL CONNECTORS SHOWN IN THE CONTRACT DOCUMENTS ARE SIMPSON STRONG-TIE CONNECTORS. SUBSTITUTION WITH EQUAL CONNECTORS BY OTHER MANUFACTURERS IS ACCEPTABLE.

13.7 ALL HARDWARE (JOIST HANGERS, ETC.) FOR USE WITH PRESERVATIVE TREATED WOOD SHALL BE GALVANIZED OR SHALL BE STAINLESS STEEL. HARDWARE TO BE HOT-DIPPED PRIOR TO FABRICATION SHALL MEET ASTM A653, G-185 COATING. HARDWARE TO BE HOT-DIPPED AFTER FABRICATION SHALL MEET ASTM A123.

13.8 FASTENER AND HARDWARE SELECTION: HOT-DIPPED GALVANIZED MATERIAL SHALL NOT BE USED IN CONTACT WITH STAINLESS STEEL MATERIAL.

13.9 ALL NAIL SIZES INDICATED IN THE CONTRACT DOCUMENTS ARE BASED ON COMMON WIRE NAILS. SUBSTITUTION OF DIFFERENT STYLE NAILS IS ACCEPTABLE BASED ON ACTUAL DIAMETER ONLY.

13.10 ROOF SHEATHING: 15/32" PLYWOOD OR OSB, APA RATED SHEATHING EXPOSURE 1

13.11 PROVIDE 3" NOMINAL (2 3/16" ACTUAL) LOCK-DECK DECKING. SOUTHERN PINE SPECIES. SIMPLE SPAN. PROVIDE TWO 20d FACE NAILS FOR EACH COURSE TO EACH SUPPORT. PROVIDE 8d NAILS @3D STAGGERED (OFFSET 15") ALONG EACH COURSE. OVERLAY DECKING WITH 7/16" OSB. NAIL SHEATHING TO DECKING WITH 8d NAILS @6" AT PERIMETER AND @12" IN THE FIELD.

13.12 WOOD PANEL SHEAR WALLS: FRT 15/32" PLYWOOD OR OSB, UNLESS NOTED OTHERWISE, APA RATED SHEATHING EXPOSURE 1. LONG DIMENSION OF PANEL PARALLEL TO STUDS. ALL PLYWOOD/OSB EDGES SHALL BE BACKED WITH TWO-INCH NOMINAL OR WIDER FRAMING.

13.13 WOOD PANEL SHEAR WALL ATTACHMENT: SEE DETAIL

13.14 ALL EXTERIOR FACE OF WALLS AT PART A OFFICE AREA TO BE SHEATHED PER SHEAR WALL DETAIL.

14.0 POST-INSTALLED REINFORCING, ANCHORS AND FASTENERS

14.1 POST-INSTALLED ANCHORS AND/OR REINFORCING SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS AND/OR REINFORCING IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS AND/OR REINFORCING.

14.2 THE BELOW PRODUCTS ARE THE DESIGN BASIS FOR THIS PROJECT. PRODUCT DIAMETER AND EMBEDMENT SHALL BE SHOWN IN THE DETAILS.

14.3 FOR ANCHORING INTO CONCRETE:

A. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713 & IAPMO-UES ER-493)
2. SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037)
3. SIMPSON STRONG-TIE "TITEN-HD ROD HANGER" (ICC-ES ESR-2713)
4. SIMPSON STRONG-TIE "TITEN TURBO" (IAPMO-UES ER-712) – FOR UNCRACKED CONCRETE ONLY
5. HILTI KWIK HUS-EZ (KH-EZ), KH-EZ CRC, KH-EZ SS316, KH-EZ C, KH-EZ E, KH-EZ-I, AND KH-EZ P SCREW ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM (ICC ESR-3027)
6. HILTI KWIK BOLT-TZ2 EXPANSION ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM AND SI-AT-A22 TOOL WITH ADAPTIVE TORQUE FOR APPLICABLE SIZES (ICC ESR-4266)
7. HILTI KWIK BOLT 1 EXPANSION ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM AND SI-AT-A22 TOOL WITH ADAPTIVE TORQUE FOR APPLICABLE SIZES (ICC ESR-678)
8. HILTI HDA UNDERCUT ANCHORS (ICC ESR 1546)

B. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE DRILL BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CRACKED INSTALLATIONS, SUCH AS HORIZONTAL TO UPWARD INCLINED ORIENTATION UNDER SUSTAINED TENSION LOADING, SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER

1. SIMPSON STRONG-TIE "SET-3G" (ICC-ES ESR-4057)
2. SIMPSON STRONG-TIE "AT-3G" (ICC-ES ESR 5026)
3. HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-4868)
4. HILTI HIT-RE 500 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-3814)
5. HILTI KWIK-X DUAL ACTION ANCHOR SAFESET SYSTEM WITH KHC CAPSULE ADHESIVE AND KWIK-HUS EZ (ICC ESR-5065)

C. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)
2. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)
3. HILTI "UNIVERSAL KNURLED SHANK FASTENERS" X-U (ICC ESR-2269)

14.4 FOR ANCHORING INTO MASONRY:

A. SOLID-GROUTED CONCRETE MASONRY

1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC01 OR ICC-ES AC106. PRE-APPROVED PRODUCTS INCLUDE:

a. SIMPSON STRONG-TIE "TITEN-HD" & "STAINLESS STEEL TITEN HD" (ICC-ES ESR-1056)
b. SIMPSON

GENERAL NOTES

1. WHEN FREQUENCY OF TESTING WILL PROVIDE LESS THAN 5 STRENGTH TESTS FOR A GIVEN CLASS OF CONCRETE, CONDUCT TESTING FROM AT LEAST 5 RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN 5 ARE USED.
2. WHEN STRENGTH OF FIELD-CURED CYLINDERS IS LESS THAN 85 PERCENT OF COMPANION LABORATORY-CURED CYLINDERS, EVALUATE CURRENT OPERATIONS AND PROVIDE CORRECTIVE PROCEDURES FOR PROTECTING AND CURING THE IN-PLACE CONCRETE.
3. STRENGTH LEVEL OF CONCRETE WILL BE CONSIDERED SATISFACTORY IF AVERAGES OF SETS OF THREE CONSECUTIVE STRENGTH TEST RESULTS EQUAL OR EXCEED SPECIFIED COMPRESSIVE STRENGTH, AND NO INDIVIDUAL STRENGTH TEST RESULTS FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI.

16.9 TEST RESULTS WILL BE REPORTED IN WRITING TO OWNER, ENGINEER AND CONTRACTOR. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING SERVICE, CONCRETE TYPE AND CLASS, LOCATION OF CONCRETE BATCH IN STRUCTURE, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIX PROPORTIONS AND MATERIAL, COMPRESSIVE BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7-DAY TESTS AND 28-DAY TESTS.

16.10 NONDESTRUCTIVE TESTING: IMPACT HAMMER, SONOSCOPE, OR OTHER NONDESTRUCTIVE DEVICE MAY BE PERMITTED BUT SHALL NOT BE USED AS SOLE BASIS FOR ACCEPTANCE OF REJECTION.

16.11 FLOOR FLATNESS: MEASURE FLOOR AND SLAB FLATNESS AND LEVELNESS ACCORDING TO ASTM E1155 WITHIN 24 HOURS OF FINISHING.

16.12 ADDITIONAL TESTS: THE TESTING SERVICE WILL MAKE ADDITIONAL TESTS OF IN-PLACE CONCRETE WHEN TEST RESULTS INDICATE SPECIFIED CONCRETE STRENGTHS AND OTHER CHARACTERISTICS HAVE NOT BEEN ATTAINED IN THE STRUCTURE, AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL PAY FOR SUCH TESTS CONDUCTED, AND ANY OTHER ADDITIONAL TESTING AS MAY BE REQUIRED, WHEN UNACCEPTABLE CONCRETE IS VERIFIED.

17.0 STRUCTURAL STEEL QUALITY CONTROL TESTING DURING CONSTRUCTION

17.1 FIELD INSPECTIONS AND TESTS: CHECK STEEL AS RECEIVED IN THE FIELD FOR POSSIBLE SHIPPING DAMAGE, WORKMANSHIP, PIECE MAKING, AND VERIFICATION OF REQUIRED CAMBER.

17.2 SHOP AND FIELD BOLTED CONNECTIONS: INSPECT AND TEST DURING FABRICATION AND ERECTION OF STRUCTURAL STEEL, AS FOLLOWS.
- A. INSPECT OR TEST IN ACCORDANCE WITH AISC SPECIFICATIONS.
- B. FOR NON-SLIP CRITICAL BOLTED CONNECTIONS (BEARING-TYPE), ALL CONNECTIONS SHALL BE VISUALLY OBSERVED TO ASSURE THAT ALL BOLTS, NUTS AND WASHERS ARE IN PLACE AND THAT ALL PLIES OF CONNECTION MATERIAL HAVE BEEN DRAWN TOGETHER. ALL BOLTS SHALL BE VERIFIED TO BE SNUG TIGHT ONLY.
- C. FOR SLIP CRITICAL BOLTED CONNECTIONS (FRICTION-TYPE), ALL CONNECTIONS SHALL BE VISUALLY OBSERVED TO ASSURE THAT ALL BOLTS, NUTS AND WASHERS ARE IN PLACE AND THAT ALL PLIES OF CONNECTIONS MATERIAL HAVE BEEN DRAWN TOGETHER. ALL BOLTS SHALL BE TESTED TO ASSURE PROPER PRETENSION IN ACCORDANCE WITH AISC SPECIFICATIONS.

17.3 SHOP AND FIELD WELDING: INSPECT AND TEST DURING FABRICATION AND ERECTION OF STRUCTURAL STEEL, AS FOLLOWS:
- A. CERTIFY WELDERS AND CONDUCT INSPECTIONS AND TESTS AS REQUIRED. RECORD TYPES AND LOCATIONS OF DEFECTS FOUND IN WORK. RECORD WORK REQUIRED AND PERFORMED TO CORRECT DEFICIENCIES.
- B. PERFORM VISUAL INSPECTION OF ALL WELDS, INCLUDING BUT NOT LIMITED TO FIT-UP, INTERMEDIATE PASSES AND FINAL WELD.
- C. PERFORM TESTS OF WELDS AS FOLLOWS. INSPECTION PROCEDURES LISTED:
  1. MAGNETIC PARTICLE INSPECTION: ASTM E 709; PERFORMED ON ROOT PASS AND ON FINISHED WELD. INSPECT 20% OF THE LENGTH OF EACH FILLET WELD. CRACKS OR ZONES OF INCOMPLETE FUSION OR PENETRATION NOT ACCEPTABLE. REJECTION OF ANY PORTION OF A WELD INSPECTED ON LESS THAN 100% OF THAT WELD.
  2. RADIOGRAPHIC INSPECTION: ASTM E94 AND ASTM E142; MINIMUM QUALITY LEVEL "2-2T".
  3. ULTRASONIC INSPECTION: ASTM E164; PERFORM ON ALL FULL AND PARTIAL PENETRATION WELDS.

18.0 INSPECTIONS

18.1 OWNER SHALL RETAIN THE SERVICES OF INDEPENDENT AGENCIES TO PERFORM THE CONSTRUCTION MATERIAL TESTING AND CODE REQUIRED SPECIAL INSPECTIONS, AS CONSTRUCTION PROGRESSES, FORWARD COPIES OF INSPECTION REPORTS TO STRUCTURAL ENGINEER FOR REVIEW. SDG CANNOT ISSUE A CERTIFICATE OF SATISFACTORY COMPLETION WITHOUT REVIEWING THESE REPORTS AND FINAL CERTIFICATES ISSUED BY EACH OF THE INDEPENDENT AGENCIES.

18.2 STRUCTURAL OBSERVATION BY SDG IS VISUAL OBSERVATION OF THE IN PLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED STRUCTURAL PORTIONS OF THE CONSTRUCTION DOCUMENTS AT THE TIME OF THE OBSERVATION AND SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TESTING AND SPECIAL INSPECTIONS PER THE REQUIREMENTS IN THE PROJECT MANUAL AND CONSTRUCTION DOCUMENTS.

18.3 OBSERVATION BY THE ENGINEER OF RECORD'S OFFICE DOES NOT REPLACE INSPECTIONS AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR.

19.0 SHOP DRAWINGS (SUBMITTALS)

19.1 THE GENERAL CONTRACTOR SHALL SUBMIT FOR REVIEW AN ELECTRONIC SET OF DESIGN CALCULATIONS AND SHOP DRAWINGS FOR ITEMS LISTED BELOW; CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED:

- A. STRUCTURAL STEEL BEAM CONNECTION DESIGN (CALCULATIONS)
- B. STRUCTURAL STEEL (SHOP DRAWINGS)
- C. STEEL STAIR FRAMING AND CONNECTIONS DESIGN (CALCULATIONS AND SHOP DRAWINGS)
- D. ARCHITECTURAL PRECAST (CALCULATIONS AND SHOP DRAWINGS)
- E. COLD-FORMED STEEL WALL PANEL FRAMING (CALCULATIONS AND SHOP DRAWINGS)
- F. COLD-FORMED STEEL FRAMING (CALCULATIONS AND SHOP DRAWINGS)
- G. COLD-FORMED STEEL ROOF TRUSSES (CALCULATIONS AND SHOP DRAWINGS)
- H. REINFORCING STEEL (SHOP DRAWINGS)
- I. WOOD DECKING (SHOP DRAWINGS)
- J. METAL BUILDING (SHOP DRAWINGS)

19.2 SUBMIT ALL SHOP DRAWINGS ELECTRONICALLY. ELECTRONIC COPIES WILL BE RETURNED TO THE ARCHITECT. REPRODUCTIONS REQUIRED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE MADE AFTER THE ELECTRONIC COPIES ARE RETURNED.

19.3 ALL SHOP DRAWINGS SHALL BE ACCOMPANIED BY A PROPERLY COMPLETED SUBMITTAL CHECKLIST, WHERE REQUIRED BY THE RELEVANT SPECIFICATION SECTION.

19.4 WHERE SHOP DRAWINGS, CALCULATIONS, OR SUBMITTALS ARE CALLED FOR IN THE PROJECT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND ARE NOT PROVIDED BY THE CONTRACTOR, THE CONTRACTOR ASSUMES TOTAL RESPONSIBILITY FOR THE DESIGN AND ASSOCIATED WORK.

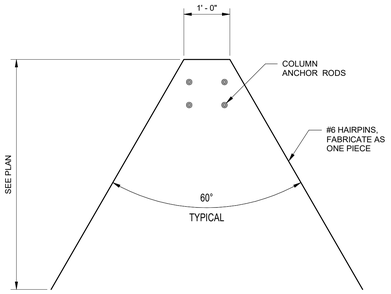
19.5 ENGINEER'S SHOP DRAWING REVIEW IS LIMITED TO REVIEW FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT REFLECTED IN THE STRUCTURAL PORTION OF THE CONTRACT DOCUMENTS. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE DRAWINGS, SPECIFICATIONS OR OTHER PROJECT CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED OR IMPLIED FOR THE CORRECTNESS OF DIMENSIONS OR DETAILS. THIS REVIEW DOES NOT AUTHORIZE CHANGES TO THE CONTRACT SUM UNLESS STATED IN A SEPARATE WRITTEN FORM OR CHANGE ORDER. CONTRACTOR SHALL CONFIRM AND CORRELATE ALL QUANTITIES AND DIMENSIONS, SELECT FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATE HIS WORK WITH THAT OF OTHER TRADES, AND PERFORM HIS WORK IN A SAFE AND SATISFACTORY MANNER. CONTRACTOR SHALL ALSO REFER TO THE REQUIREMENTS OF THE GENERAL AND SUPPLEMENTARY GENERAL CONDITIONS.

19.6 ALL SUBMITTALS: IF THERE ARE QUESTIONS, CLARIFICATIONS, MODIFICATIONS, OR ITEMS WHERE INFORMATION, A RESPONSE, OR APPROVAL IS REQUESTED, SUCH ITEMS SHALL BE WRITTEN ON THE TRANSMITTAL OR COVER SHEET. WHERE SUBMITTAL CHECKLISTS ARE REQUIRED BY THE RELEVANT SPECIFICATION, THE AFOREMENTIONED INFORMATION MUST BE INDICATED ON THE SUBMITTAL CHECKLIST IN ACCORDANCE WITH THE RELEVANT SPECIFICATION. INDICATING SUCH ITEMS ON THE SHOP DRAWINGS, WITHIN ANY CALCULATIONS, OR PRODUCT DATA IS NOT SUFFICIENT. WHERE SUCH ITEMS ARE NOT SPECIFICALLY LISTED ON THE TRANSMITTAL, COVER SHEET, OR CHECKLIST IN ACCORDANCE WITH THESE GENERAL NOTES AND THE SPECIFICATIONS, SUCH ITEMS ARE NOT TO BE CONSIDERED APPROVED OR CONSIDERED. IF A QUESTION, CLARIFICATION, MODIFICATION, OR REQUEST FOR INFORMATION IS MADE AND NOT SPECIFICALLY RESPONDED TO BY STRUCTURAL DESIGN GROUP, NO APPROVAL OR CONSENT SHALL BE ASSUMED. THE CONTRACTOR SHALL ASSUME TOTAL LIABILITY AND RESPONSIBILITY IN ALL CASES WHERE SPECIFIC WRITTEN RESPONSE FROM STRUCTURAL DESIGN GROUP IS NOT OBTAINED, REGARDLESS OF ANY OTHER ACTIONS TAKEN BY STRUCTURAL DESIGN GROUP.

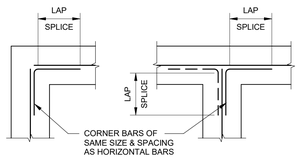
19.7 SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED BY THE GENERAL CONTACTOR AND REVIEWED BY THE S.E.R. SHOULD THE OWNER OR CONTRACTOR FAIL TO OBTAIN THE S.E.R'S REVIEW OF THE SHOP DRAWINGS, THE S.E.R. WILL NOT ACCEPT RESPONSIBILITY FOR THE DESIGN AND CERTIFICATION OF THIS PROJECT. PRIOR TO SUBMISSION, THE CONTRACTOR SHALL REVIEW SHOP DRAWINGS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL NOT BE PRODUCED PRIOR TO FINAL CONSTRUCTION SET.

19.8 DO NOT FABRICATE PRIOR TO SHOP DRAWING'S REVIEW.

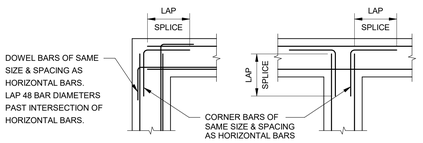
19.9 ENGINEERING DESIGN AND SHOP DRAWINGS FOR FLOOR AND ROOF TRUSS SYSTEMS ALONG WITH LAYOUT PLANS ARE REQUIRED TO BE SUBMITTED TO THE BUILDING OFFICIAL FOR REVIEW PRIOR TO CONSTRUCTION.



COLUMN HAIRPIN DETAIL
TYPICAL

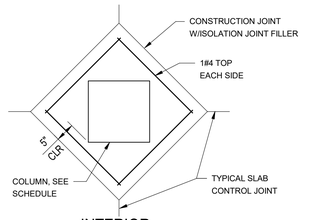


SINGLE LAYER REINFORCEMENT

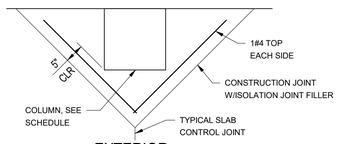


DOUBLE LAYER REINFORCEMENT
NOTE: ALL LAP SPLICES CLASS "B" TENSION

FOOTING CORNER REINFORCING DETAIL
TYPICAL

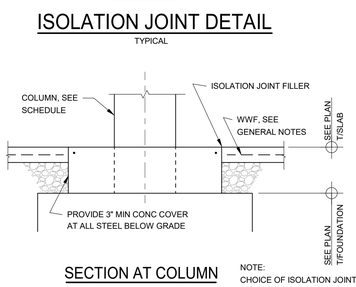


INTERIOR



EXTERIOR

ISOLATION JOINT DETAIL
TYPICAL

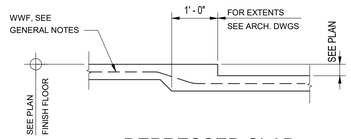


SECTION AT COLUMN

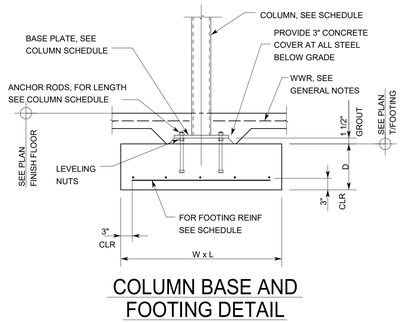
NOTE:
CHOICE OF ISOLATION JOINT DETAIL IS CONTRACTORS OPTION.

COLUMN/SLAB-JOINT DETAIL
TYPICAL

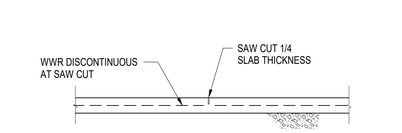
NOTE:
CONTRACTOR COORDINATE W/ARCHITECT FOR ALL DEPRESSED SLAB AREAS BEFORE SLAB ON GRADE IS PLACED.



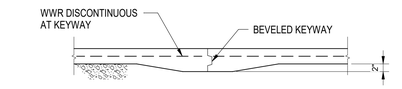
DEPRESSED SLAB ON GRADE DETAIL
TYPICAL



COLUMN BASE AND FOOTING DETAIL
TYPICAL

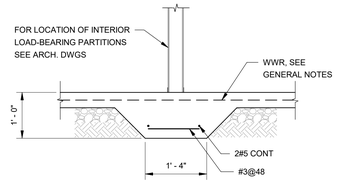


SAWED JOINT

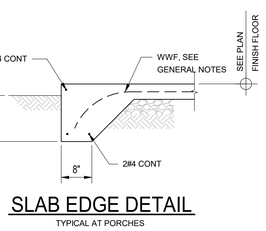


KEYED JOINT

SLAB CONTROL JOINT DETAILS
TYPICAL
JOINT TYPE IS OPTIONAL



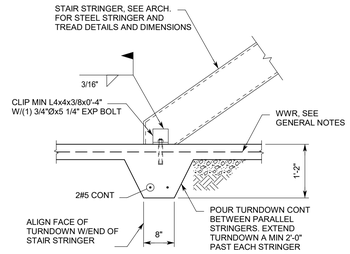
THICKENED SLAB ON GRADE DETAIL
TYPICAL



SLAB EDGE DETAIL
TYPICAL AT PORCHES

ANCHOR ROD EMBEDMENT LENGTHS	
BOLT DIA	MIN EMBEDMENT
3/4"	9"
1"	12"
1 1/4"	15"
1 1/2"	18"

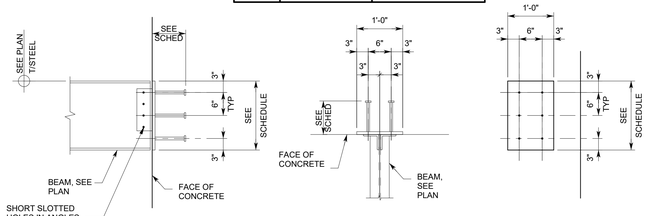
NOTE:
ANCHOR ROD SIZE AND MATERIAL TO BE PROVIDED BY METAL BUILDING MANUFACTURER. THE ABOVE TABLE IS MINIMUM EMBEDMENT TO FULLY DEVELOP ASTM F1554 GRADE 36 HEADED ANCHOR RODS. FINAL ANCHOR ROD EMBEDMENT DEPTH SHALL BE DETERMINED BY STRUCTURAL ENGINEER AFTER SUBMITTAL OF COLUMN BASE AND ANCHOR ROD INFORMATION FROM METAL BUILDING MANUFACTURER PRIOR TO MATERIAL ORDER AND FABRICATION.



NOTES:
1. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF STAIR STRINGER LOCATIONS WITH ARCHITECTURAL DRAWINGS AND PROVIDE TURNDOWNS WHERE REQUIRED WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT.
2. CLIP ANGLE TO BE HIDDEN BENEATH FIRST TREAD. WHERE OPEN RISERS ARE USED, COORDINATE THE LOCATION WITH THE ARCHITECT.

INTERIOR TURNDOWN AT STAIR
3/4"=1'-0" TYPICAL

EMBED PLATE SCHEDULE		
TYPE	PLATE SIZE	HEADED STUDS
EP1	3/4x12x1'-0"	(4) 3/4"Ø x6"
EP2	3/4x12x1'-6"	(6) 3/4"Ø x6"
EP3	3/4x12x2'-0"	(8) 3/4"Ø x6"



NOTE:
BEAM CONNECTION TO BE FIELD WELDED TO EMBED PLATE. CONNECTION DESIGN BY CONTRACTOR. CONTRACTOR TAKE EXTREME CARE NOT TO OVER HEAT EMBED PLATE DURING WELDING PROCESS.

EMBED PLATE DETAIL AND SCHEDULE
TYPICAL

COLUMN SCHEDULE						
COLUMN DESIGNATION		C1	C2	C3	C4	C5
COLUMN	SIZE	HSS 8x8x1/4	HSS 5x5x3/8	HSS 6x6x3/8	HSS 3 1/2x3 1/2x1/4	HSS 3 1/2x3 1/2x1/4
	BASE PLATE	3/4x14x14	3/4x11x11	1 1/2x6x12	3/4x10x10	3/4x4x10
	ANCHOR RODS	(4) 3/4"Ø W/ 9" EMBEDMENT	(4) 3/4"Ø W/ 9" EMBEDMENT	(2) 1"Ø W/ 12" EMBEDMENT	(4) 3/4"Ø W/ 9" EMBEDMENT	(2) 3/4"Ø W/ 9" EMBEDMENT
	NOTES		1	3		

NOTES:
1. AT PATIO B, PROVIDE HI PERFORMANCE PAINT AND PRIMER.
2. ALL ANCHOR RODS TO USE HEADED BOLTS OR THREADED RODS.
3. ORIENT BASE PLATE WITH THE NORTH-SOUTH WALL.

FOOTING SCHEDULE												
FOOTING DESIGNATION		F3.0A	F4.0	F4.0A	F4.5	F4.5A	F5.0A	F7.0A	F8.0A	F8.5A	F10.0A	F12.0A	F14.5A
FOOTING	SIZE (LxW)	3'-0"x3'-0"	4'-0"x4'-0"	4'-0"x4'-0"	4'-6"x4'-6"	4'-6"x2'-6"	5'-0"x5'-0"	7'-0"x7'-0"	8'-0"x8'-0"	8'-6"x8'-6"	10'-0"x10'-0"	12'-0"x12'-0"	14'-6"x14'-6"
	DEPTH (D)	1'-0"	1'-0"	2'-0"	1'-0"	1'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"
	REINF EW (BOT)	3#4	4#5	4#5	5#5	3#5 LONG 5#5 SHORT	5#5	7#5	8#5	9#5	10#5	12#5	15#5
	NOTES	1		1			1	1	1	1	1	1	1

NOTES:
1. PROVIDE SCHEDULED REINFORCEMENT EACH WAY TOP AND BOTTOM OF FOOTING.

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number 25-203

A.A.B.A.M. REGISTERED No. 17333 PROFESSIONAL J. Stewart Lee STEWART
6/22/2026

JASPER WATERWORKS - NEW BUILD
3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER: 23031-A

DATE: 06/22/26

PRINTED / REVISIONS

#	DESCRIPTION	DATE

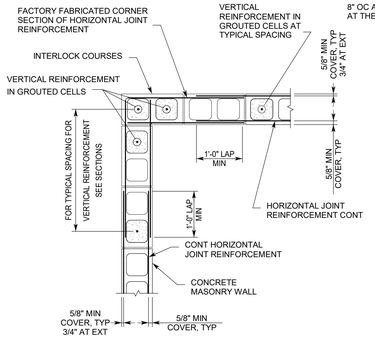
SHEET TITLE: GENERAL NOTES AND TYPICAL DETAILS

SHEET NUMBER: S102

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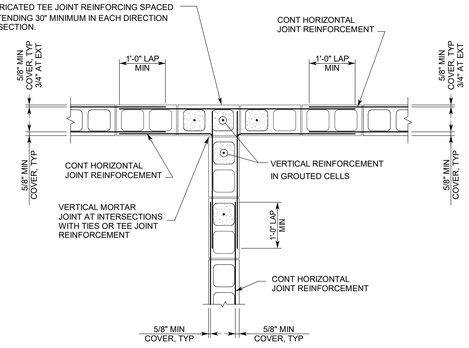
SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number 25-203

ANCHOR WALLS BY:
1. INTERSECTING 50% OF UNITS OVERLAPPING WITH ALTERNATE UNITS BEARING 3" MINIMUM ON THE UNIT BELOW.
2. GALV PL 1/4x1 1/2x2'-4" TIE @ 4'-0" OC WITH ENDS BENT 2", ALTERNATING ENDS UP AND DOWN.
3. FACTORY FABRICATED TEE JOINT REINFORCING SPACED 8" OC AND EXTENDING 30" MINIMUM IN EACH DIRECTION AT THE INTERSECTION.



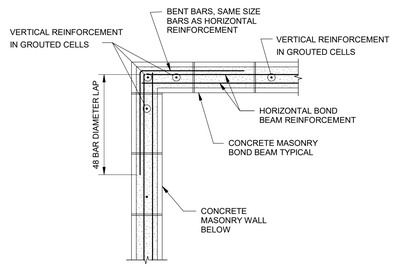
PLAN SHOWING JOINT REINFORCEMENT AT WALL CORNER

TYPICAL



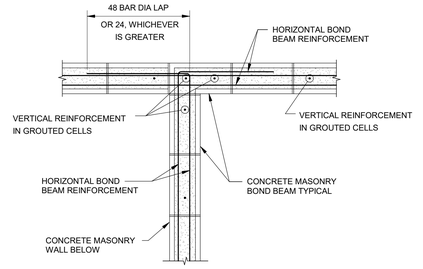
PLAN SHOWING JOINT REINFORCING AT STRUCTURAL WALL INTERSECTION

TYPICAL



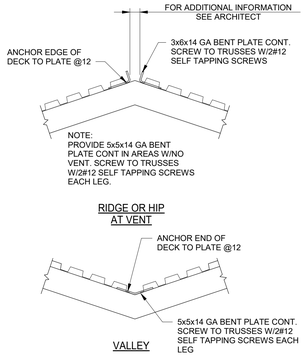
PLAN SHOWING BOND BEAM REINFORCEMENT AT WALL CORNER

TYPICAL



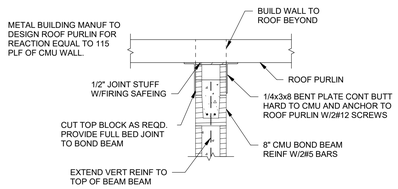
PLAN SHOWING BOND BEAM AT STRUCTURAL WALL INTERSECTION

TYPICAL

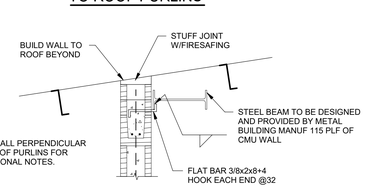


RIDGE, HIP AND VALLEY SUPPORTS FOR METAL DECK

TYPICAL



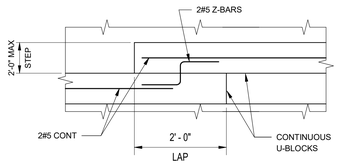
WALL PERPENDICULAR TO ROOF PURLINS



WALL PARALLEL TO PURLINS

MASONRY WALL SUPPORT AT ROOF

TYPICAL



MASONRY BOND BEAM STEP DETAIL

TYPICAL

MASONRY REINFORCING LAP SPLICE LENGTHS

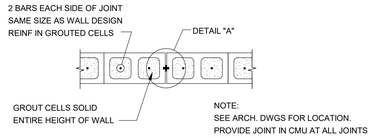
BAR SIZE (#)	CENTERED (IN.)	EDGE (IN.)
3	16.0	17.0
4	21.0	29.0
5	26.0	45.0
6	43.0	85.0
7	60.0	115.0
8	92.0	173.0
9	119.0	220.0
10	154.0	279.0
11	194.0	344.0

NOTES:
1. LAP SPLICE LENGTHS APPLY TO BOTH HORIZONTAL AND VERTICAL REINFORCING.

MASONRY LINTEL SCHEDULE

MAXIMUM OPENING WIDTH	STEEL FOR EACH 4" OF WALL THICKNESS	LINTEL DIMENSIONS AND REINFORCING	
		DEPTH	8" WALL
2'-0"	L3 1/2x3 1/2x3/8	8	1#4 BOT
4'-0"	L3 1/2x3 1/2x3/8	8	1#4 BOT
6'-0"	L3 1/2x3 1/2x3/8	8	1#5 BOT & 1#4 TOP
8'-0"	L5x3 1/2x3/8	16	1#6 BOT & 1#5 TOP
10'-0"		16	1#7 BOT & 1#5 TOP
12'-0"		16	1#8 BOT & 1#5 TOP

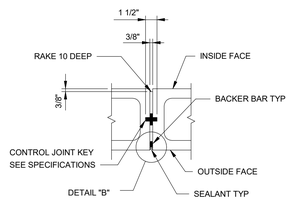
1. DO NOT USE THIS SCHEDULE IF CONCENTRATED LOAD IS APPLIED TO THE LINTEL AT A HEIGHT LESS THAN HALF THE SPAN ABOVE THE LINTEL, OR IF STACK BOND IS SPECIFIED.
2. PROVIDE 8" MINIMUM BEARING FOR ALL LINTELS. FOR LINTELS GREATER THAN 6'-0" FILL CELLS SOLID AT EACH SIDE OF OPENING.
3. ALL EXPOSED LINTEL ANGLES TO BE HOT DIP GALVANIZED.
4. SHORE LINTEL UNTIL MORTAR AND GROUT HAVE SET AND CURED.



PLAN

MASONRY CONTROL JOINT

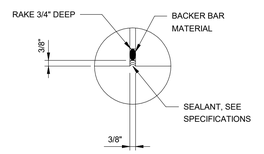
3/4"=1'-0"



DETAIL "A"

MASONRY CONTROL JOINT

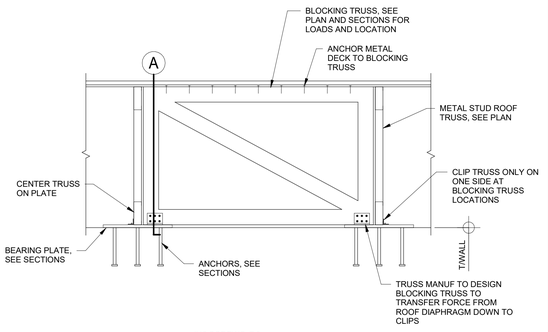
1 1/2"=1'-0"

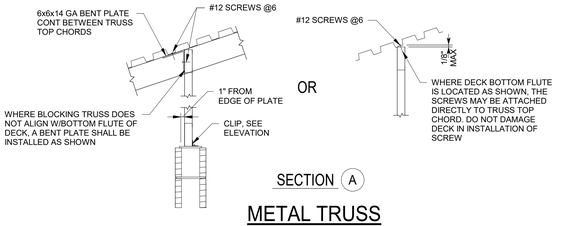


DETAIL "B"

MASONRY CONTROL JOINT

3"=1'-0"

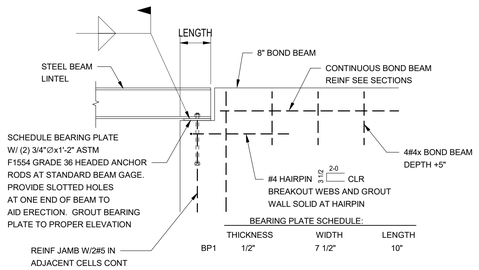




SECTION A

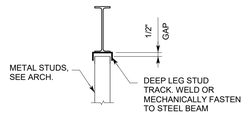
METAL TRUSS BLOCKING TRUSS DETAIL

NOT TO SCALE



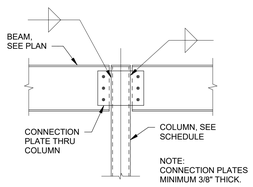
BEAM BEARING DETAIL IN LINE WITH CMU WALL

TYPICAL



STUD WALL ANCHORAGE TO STEEL BEAM

TYPICAL



BEAM TO COLUMN CONNECTION DETAIL

TYPICAL

TENSION LAP SPLICE LENGTHS

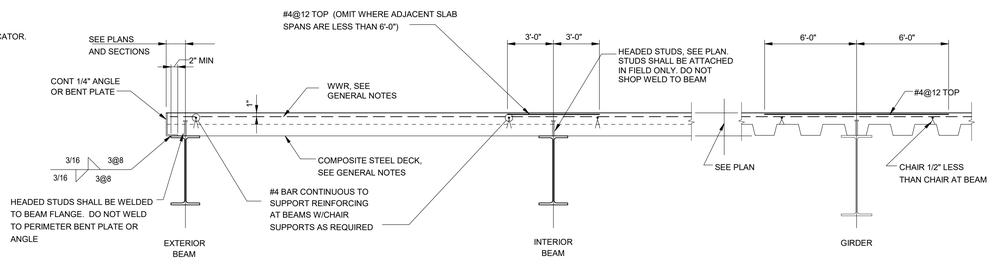
BAR SIZE	f'_c = 3000 PSI				f'_c = 4000 PSI			
	TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
	A	B	A	B	A	B	A	B
#3	22"	28"	17"	22"	19"	24"	15"	19"
#4	29"	37"	22"	29"	25"	32"	19"	25"
#5	36"	47"	28"	36"	31"	40"	24"	31"
#6	43"	56"	33"	43"	37"	48"	29"	37"
#7	63"	81"	48"	63"	54"	70"	42"	54"
#8	72"	93"	55"	72"	62"	80"	48"	62"
#9	81"	105"	62"	81"	70"	91"	54"	70"
#10	91"	118"	70"	91"	79"	102"	61"	79"
#11	101"	131"	78"	101"	87"	113"	67"	87"

TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REINFORCEMENT.

PIPING WEIGHTS

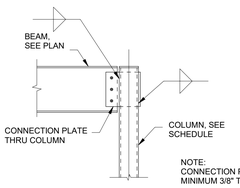
PIPE DIAMETER	PIPE WT PER/FOOT (PLF)	FLUID WT PER/FOOT (PLF)	INSULATION & HANGERS (PLF)	TOTAL WT PER/FOOT (PLF)
4"	10.80	6.10	2.00	18.90
6"	19.00	13.80	3.00	35.80
8"	28.60	23.90	4.00	56.50
10"	40.50	37.50	4.00	82.00
12"	49.60	54.00	5.00	108.60
14"	54.60	65.70	5.00	125.30
16"	62.60	87.10	5.00	154.70

NOTES:
1. FROM ANVIL INTERNATIONAL PIPE FITTERS HANDBOOK.
2. ALL PIPES ASSUMED TO BE SCHEDULE 40.
3. FLUID WEIGHT INCLUDES ALLOWANCE FOR GLYCOL CONCENTRATION.
4. PIPING SUPPORT AND THRUST BRACING REQUIREMENTS SHALL BE COORDINATED BY THE GENERAL CONTRACTOR WITH THE STEEL TRUSS AND METAL BUILDING FABRICATOR. SEE MECHANICAL/PLUMBING DRAWINGS FOR PIPING SUPPORT AND THRUST BRACING REQUIREMENTS.
5. FOR PIPE SIZES NOT LISTED, CONTACT STRUCTURAL ENGINEER.



COMPOSITE SLAB/DECK DETAILS

TYPICAL



BEAM TO COLUMN CONNECTION DETAIL

TYPICAL

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A.A.B.A.M.
REGISTERED
No. 17333
PROFESSIONAL
ENGINEER
STATE OF ALABAMA
6/22/2026

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
06/22/26

PRINTED / REVISIONS

#	DESCRIPTION	DATE

SHEET TITLE:
TYPICAL DETAILS

SHEET NUMBER:
S103

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number **25-203**





JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

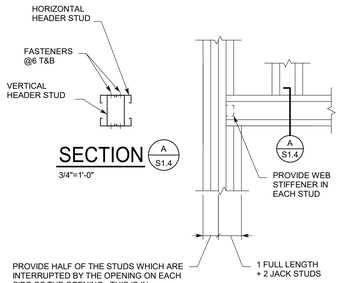
DATE:
06/22/26

PRINTED / REVISIONS

#	DESCRIPTION	DATE

SHEET TITLE:
TYPICAL DETAILS

SHEET NUMBER:
S104



SPAN	VERTICAL HEADER STUDS (2 TOTAL)	HORIZONTAL HEADER STUDS (2 TOTAL)
3'-0"	800S162-33	800S162-33
4'-0"	800S162-33	800S162-33
5'-0"	800S162-43	800S162-43
6'-0"	800S162-43	800S162-43
7'-0"	800S162-43	800S162-43
8'-0"	800S162-43	800S162-43
9'-0"	800S200-54	800S200-54
10'-0"	800S200-54	800S200-54

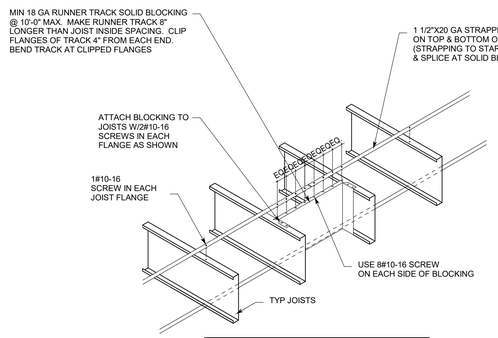
NOTES:
1. FOR SPANS GREATER THAN 10'-0", CONTACT STRUCTURAL ENGINEER.
2. THIS IS FOR EXTERIOR WALL CONDITION. SEE ARCH. FOR HEADER DETAILS INTERIOR WALL CONDITION.
3. COORDINATE LOCATION OF LIGHT SWITCHES, EXTERIOR LIGHTS, ETC. W/HEADER. EXTEND HEADER LENGTH AND ADDED JACK STUDS AS NEEDED. DO NOT INTERRUPT, CUT OR DAMAGE JAMBS AND JACK STUDS SHOWN.

METAL STUD HEADER

TYPICAL AT NON-LOAD BEARING WALLS

BLOCKING NOTE:
PLACE SOLID BLOCKING AT ENDS OF FLOOR SYSTEM, ADJACENT TO ALL OPENINGS AND @ 10'-0" MAX.

STRAP NOTE:
TOP STRAP NOT REQD IF CONTINUOUSLY ATTACHED RIGID SHEATHING IS USED. TEMPORARY BRACING OF TOP FLANGE DURING CONSTRUCTION MAY BE REQD.

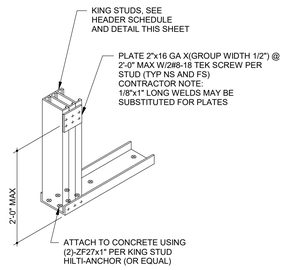


BRIDGING RECOMMENDATIONS

SPANS	ROWS REQUIRED
UP TO 14'	ONE ROW @ MID-SPAN
14' TO 20'	TWO ROWS @ THIRD POINTS
20' TO 26'	THREE ROWS @ QUARTER POINTS

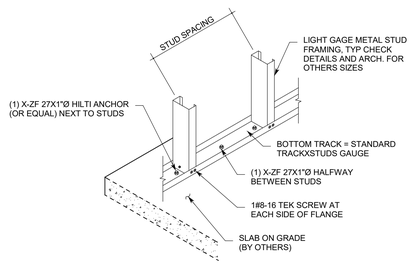
JOIST BRIDGING

TYPICAL



KING STUD GROUP CONNECTION

TYPICAL



SLAB CONNECTION DETAIL

TYPICAL

COMPONENTS AND CLADDING WIND LOADS FOR WALLS (PSF)

	EFFECTIVE WIND AREA (FT^2)	115 MPH WIND SPEED	
INT ZONE	10	22.7	-24.5
	20	21.6	-23.4
	50	20.2	-22.2
	100	19.3	-21.1
	500	17.0	-18.8
EDGE ZONE	10	22.7	-30.3
	20	21.6	-28.3
	50	20.2	-25.6
	100	19.3	-23.4
	500	16.9	-18.8

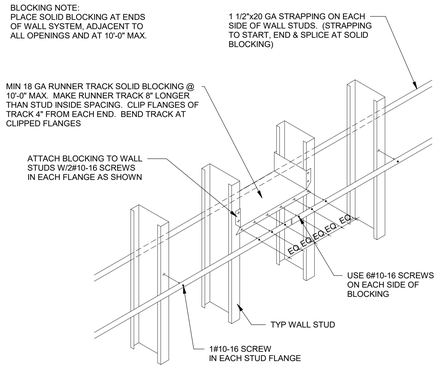
NOTES:
1. WIDTH OF EDGE STRIP a=10'-0".
2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO INTERNATIONAL BUILDING CODE TABLE 1609.6.2.1 (4) AND IMPORTANCE FACTOR.
3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.

COMPONENTS AND CLADDING WIND LOADS FOR ROOF (PSF)

	EFFECTIVE WIND AREA (FT^2)	115 MPH WIND SPEED	
INT ZONE	10	10	-22.7
	20	10	-22.0
	50	10	-21.3
	100	10	-20.6
EDGE ZONE	10	10	-37.9
	20	10	-33.8
	50	10	-28.6
	100	10	-24.5
CORNER ZONE	10	10	-57.1
	20	10	-47.4
	50	10	-34.3
	100	10	-24.5

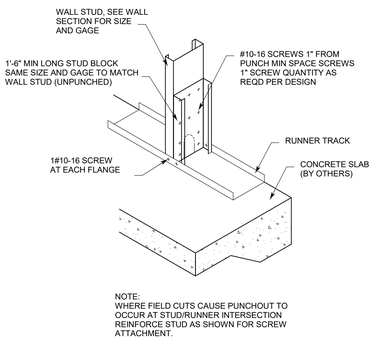
NOTES:
1. WIDTH OF EDGE STRIP a=10'-0".
2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO INTERNATIONAL BUILDING CODE TABLE 1609.6.2.1 (4) AND IMPORTANCE FACTOR.
3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.
5. CONSIDER 6 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS FOR ROOF JOISTS AND 0 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS FOR ROOF DECK.

BLOCKING NOTE:
PLACE SOLID BLOCKING AT ENDS OF WALL SYSTEM, ADJACENT TO ALL OPENINGS AND AT 10'-0" MAX.



STRAP BRIDGING LATERAL BRACING

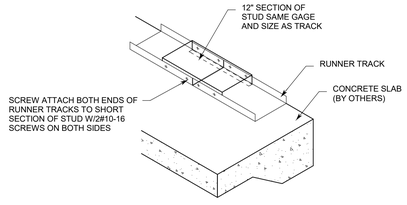
TYPICAL



NOTE:
WHERE FIELD CUTS CAUSE PUNCHOUT TO OCCUR AT STUD/RUNNER INTERSECTION REINFORCE STUD AS SHOWN FOR SCREW ATTACHMENT.

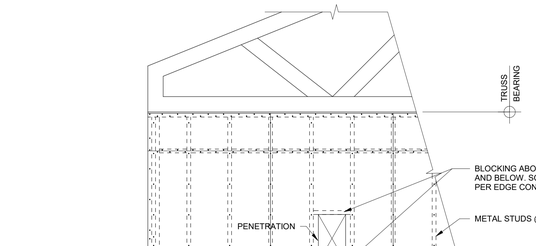
REINFORCEMENT AT STUD END

TYPICAL



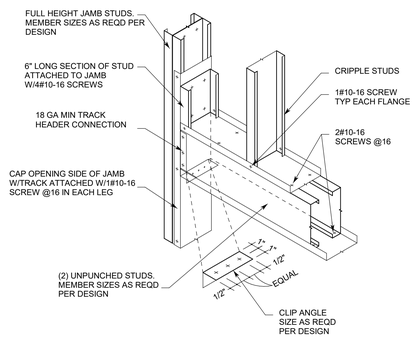
BOTTOM TRACK SPLICE

TYPICAL



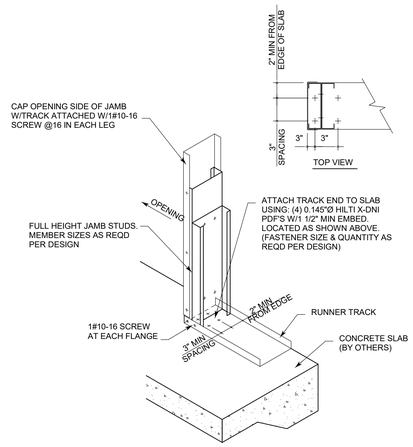
● SHEAR WALL PANEL CONSTRUCTION

1. ATTACH PANELS TO EDGE MEMBERS WITH #8 SCREWS @6.
2. ATTACH PANELS TO INTERMEDIATE MEMBERS WITH #8 SCREWS @12.
3. ● INDICATES LOCATIONS OF REQUIRED HOLD DOWN ANCHORS.



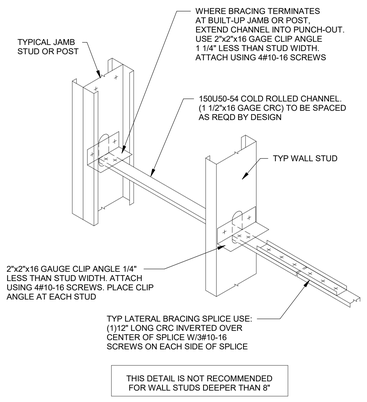
BOX HEADER

TYPICAL



DOOR JAMB ANCHORAGE

TYPICAL



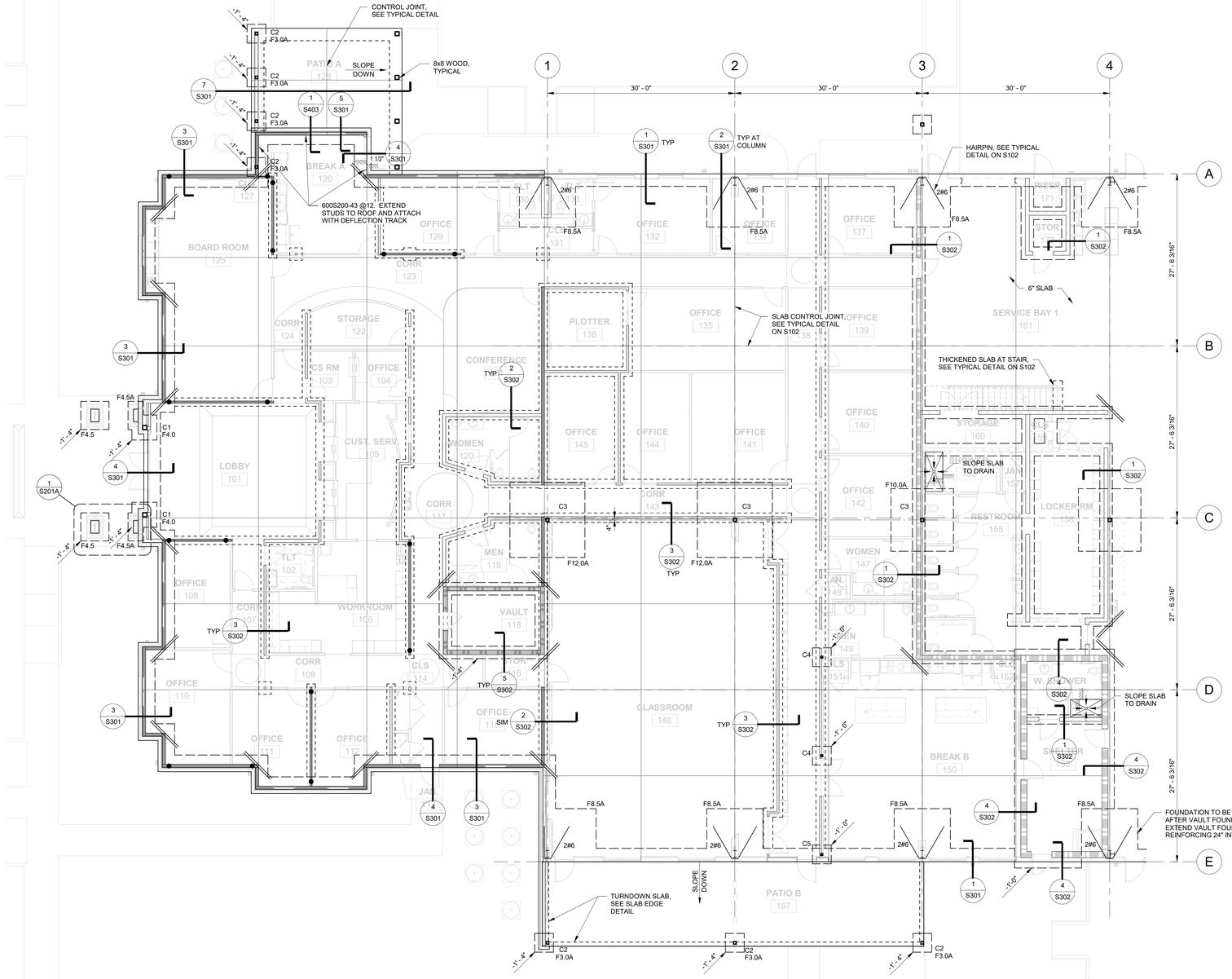
STUD BRIDGING WITH BRIDGING CLIP

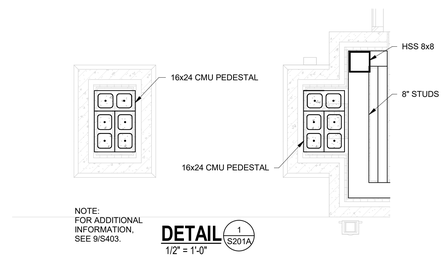
TYPICAL

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SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number **25-203**





DETAIL 1/2" = 1'-0" (S201A)

PROJECT NORTH

LEVEL 1 FOUNDATION PLAN - PART A

1/8" = 1'-0"

1. FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED.
2. TOP OF FOOTING ELEVATION -1'-4" BELOW FINISH FLOOR, UNLESS NOTED.
3. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL CMU WALL.
4. TYPICAL SLAB 4" UNLESS NOTES. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
5. FOR SLAB RECESS, SLOPES TO DRAIN AND DEPRESSIONS, SEE ARCHITECTURAL DRAWINGS AND DETAILS ON S102.
6. GENERAL CONTRACTOR TO COORDINATE ALL DRAWINGS WITH THE METAL BUILDING SUPPLIER BEFORE FOUNDATION INSTALLATION BEGINS. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
7. "FX.X" INDICATES FOOTING, SEE SCHEDULE ON THIS S102 FOR MORE INFORMATION.
8. GENERAL CONTRACTOR SHALL OBTAIN AND LAYOUT COLUMN ANCHOR RODS FROM ANCHOR ROD SETTING PLAN PROVIDED BY THE METAL BUILDING MANUFACTURER.
9. COORDINATE ALL BUILDING OFFSETS AND SLAB EDGE WITH ARCHITECTURAL DRAWINGS.
10. PROVIDE ANTI-FRACTURE MEMBRANE AT ALL CONTROL JOINTS IN NON-SERVICE BAY AREAS.
11. ATTACH ALL SHEAR WALLS AND LOAD BEARING WALLS TO SLAB WITH 5/8"Ø TITEN x 5" LONG @24.
12. SEE ARCHITECTURAL AND PLUMBING DRAWINGS FOR RECESS AT SHOWERS.
13. ▨ INDICATES SHEAR WALL, SEE TYPICAL DETAIL.

LEVEL 1 FOUNDATION PLAN - LINES 1-4

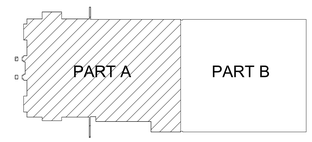
1/8" = 1'-0"

1. FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED.
2. TOP OF FOOTING ELEVATION -0'-0", UNLESS NOTED.
3. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL CMU WALL.
4. TYPICAL SLAB 4" UNLESS NOTES. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
5. FOR SLAB RECESS, SLOPES TO DRAIN AND DEPRESSIONS, SEE ARCHITECTURAL DRAWINGS AND DETAILS ON S102.
6. GENERAL CONTRACTOR TO COORDINATE ALL DRAWINGS WITH THE METAL BUILDING SUPPLIER BEFORE FOUNDATION INSTALLATION BEGINS. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
7. "FX.X" INDICATES FOOTING, SEE SCHEDULE ON S102 FOR MORE INFORMATION.
8. GENERAL CONTRACTOR SHALL OBTAIN AND LAYOUT COLUMN ANCHOR RODS FROM ANCHOR ROD SETTING PLAN PROVIDED BY THE METAL BUILDING MANUFACTURER.
9. COORDINATE ALL BUILDING OFFSETS AND SLAB EDGE WITH ARCHITECTURAL DRAWINGS.
10. PROVIDE MM80 JOINT FILLER AT ALL CONTROL JOINTS.

STEEL STUD SCHEDULE - PART A

LOCATION	STUD
ENTRY AREA - WEST FACE BRICK	800S162-54 @16
TYPICAL BRICK	600S162-43 @16
TYPICAL EXTERIOR	600S162-43 @16
INTERIOR (ROOF LOAD ONLY)	362S162-43 @16
INTERIOR (ROOF PLUS MECH ATTIC)	362S162-54 @16
INTERIOR (MECHANICAL ATTIC ONLY)	362S162-43 @16
STORAGE MEZZANINE (LINES 2.5 TO 4)	362S162-54 @16

NOTES:
1. STUD SIZES ARE MINIMUMS. SEE PLANS FOR DEEPER STUDS.
2. PROVIDE TRIPLE STUDS AT HEADER BEARING LOCATIONS TYPICAL.
3. ACTUAL STUD DESIGN AND SHOP DRAWINGS ARE TO BE SUBMITTED FOR REVIEW.
4. PROVIDE DEEP LEG TRACKS AS REQUIRED FOR CONCENTRATED POINT LOADS FROM JOISTS/TRUSSES. ASSUME POINT LOAD OCCURS AT MID-POINT BETWEEN JOISTS.



KEY PLAN

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER: 23031-A

DATE: 06/22/26

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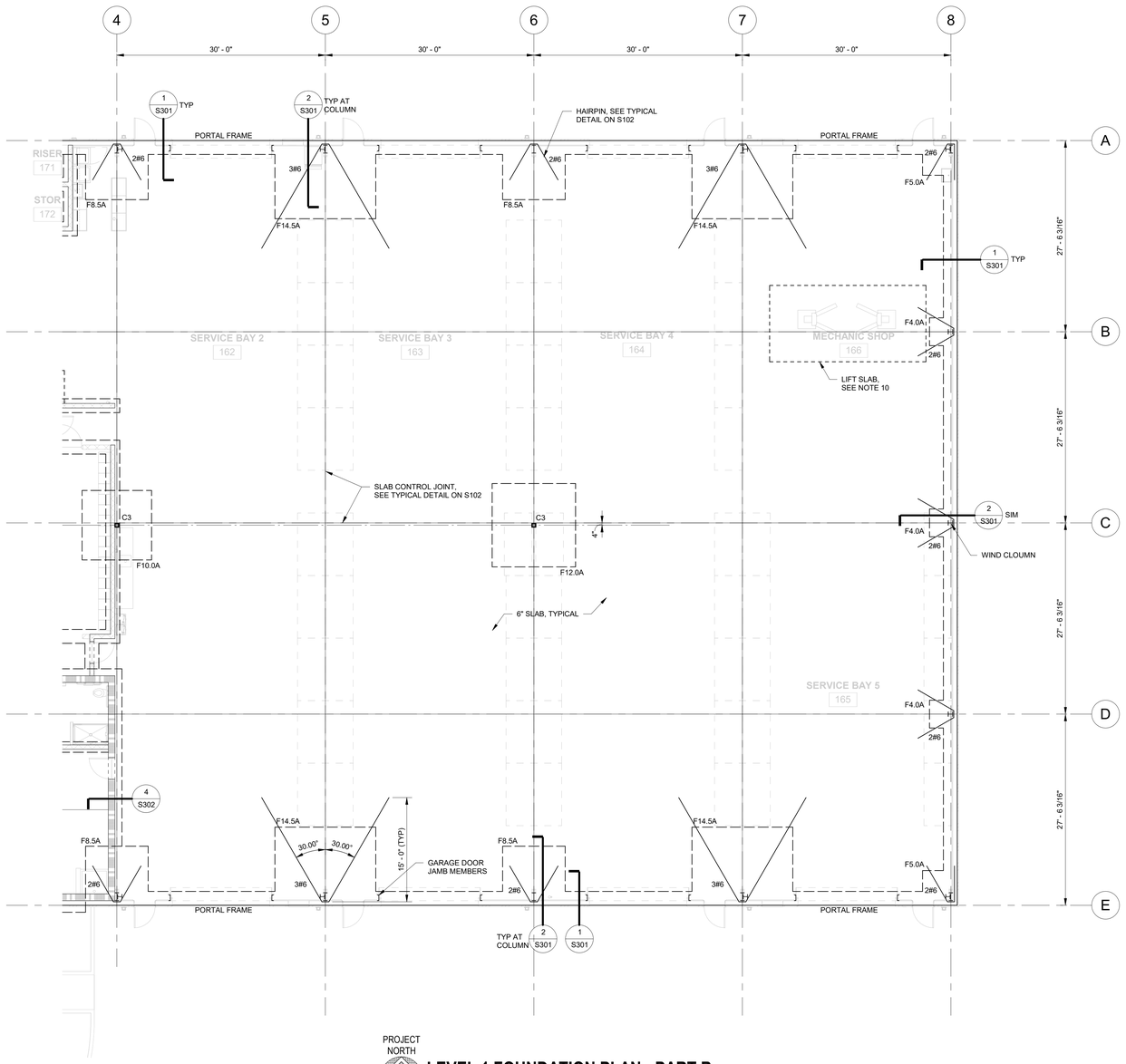
SHEET TITLE: LEVEL 1 FOUNDATION PLAN - PART A

SHEET NUMBER: S201A

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300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number **25-203**

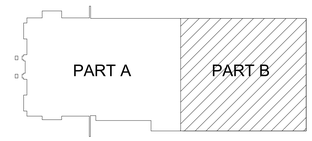


PROJECT NORTH

LEVEL 1 FOUNDATION PLAN - PART B

1/8" = 1'-0"

1. FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED.
2. TOP OF FOOTING ELEVATION -0'-0", UNLESS NOTED.
3. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL CMU WALL.
4. TYPICAL SLAB 6" UNLESS NOTED. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
5. FOR SLAB RECESS, SLOPES TO DRAIN AND DEPRESSIONS, SEE ARCHITECTURAL DRAWINGS AND DETAILS ON S102.
6. GENERAL CONTRACTOR TO COORDINATE ALL DRAWINGS WITH THE METAL BUILDING SUPPLIER BEFORE FOUNDATION INSTALLATION BEGINS. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
7. "FX.X" INDICATES FOOTING, SEE SCHEDULE ON S102 FOR MORE INFORMATION.
8. GENERAL CONTRACTOR SHALL OBTAIN AND LAYOUT COLUMN ANCHOR RODS FROM ANCHOR ROD SETTING PLAN PROVIDED BY THE METAL BUILDING MANUFACTURER.
9. COORDINATE ALL BUILDING OFFSETS AND SLAB EDGE WITH ARCHITECTURAL DRAWINGS.
10. AT LIFT EQUIPMENT, PROVIDE 12" SLAB REINFORCED WITH #5@6 EACH WAY TOP & BOTTOM. VERIFY REQUIRED SLAB DIMENSIONS WITH EQUIPMENT MANUFACTURER. VERIFY LOCATIONS WITH OWNER AND ARCHITECT.
11. PROVIDE MM80 JOINT FILLER AT ALL CONTROL JOINTS.



KEY PLAN

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ALABAMA REGISTERED No. 17333 PROFESSIONAL J. Stewart Lee STEWART
6/22/2026

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
06/22/26

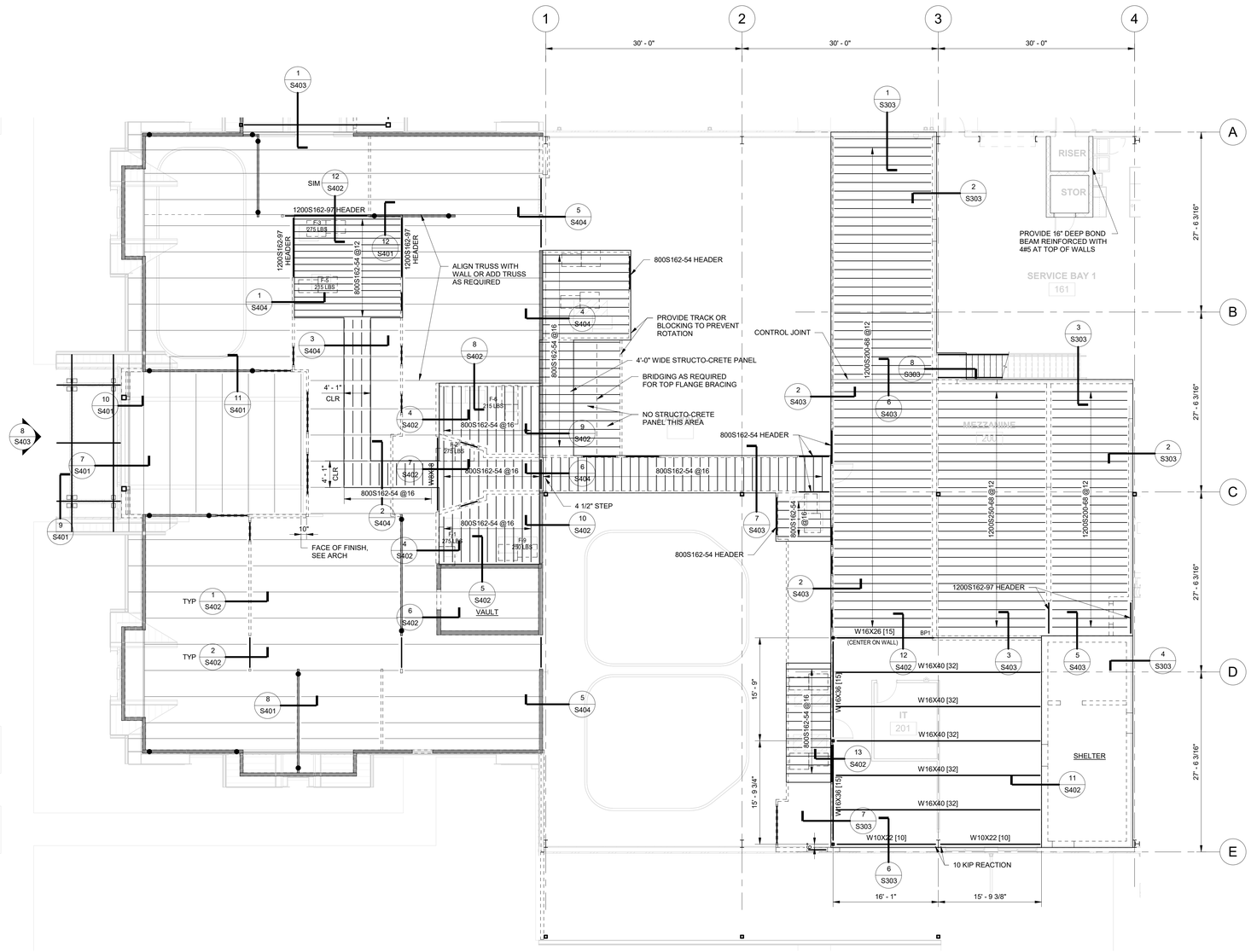
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#	DESCRIPTION	DATE

SHEET TITLE:
LEVEL 1 FOUNDATION PLAN - PART B

SHEET NUMBER:
S201B

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number **25-203**



PROJECT NORTH

MEZZANINE FLOOR FRAMING PLAN LINES 1-4

1/8" = 1'-0"

AT TYPICAL MEZZANINE

1. FINISHED FLOOR (TOP OF MEZZANINE SLAB) ELEVATION 11'-4", UNLESS NOTED (±) INCHES.
2. TOP OF LIGHT GAGE JOIST ELEVATION 11'-1 1/2", UNLESS NOTED (±) INCHES.
3. FLOOR SYSTEM: 2" NORMAL WEIGHT CONCRETE ON 9/16" STEEL DECK (2 1/2" TOTAL). SEE GENERAL NOTES.
4. PROVIDE 12" LIGHT GAGE JOISTS @12" ON CENTER.
5. COORDINATE MECHANICAL OPENINGS WITH MECHANICAL DRAWINGS AND UNIT MANUFACTURER.

AT MECHANICAL MEZZANINE AND WALKWAYS

1. FINISHED FLOOR (TOP OF SLAB) ELEVATION 11'-6 1/2", UNLESS NOTED (±) INCHES.
2. TOP OF JOIST ELEVATION 11'-5 3/4", UNLESS NOTED (±) INCHES.
3. FLOOR (OR ROOF) SYSTEM: 3/4" USG STRUCTO-CRETE ON 6" LIGHT GAGE JOISTS. SEE GENERAL NOTES.
4. SPACE JOIST AS SHOWN.
5. COORDINATE MECHANICAL OPENINGS WITH MECHANICAL DRAWINGS AND UNIT MANUFACTURER.

AT SHELTER/WOMEN'S SHOWER

1. FINISHED FLOOR (TOP OF SLAB) ELEVATION 11'-4", UNLESS NOTED (±) INCHES.
2. FLOOR (OR ROOF) SYSTEM: 12" NORMAL WEIGHT CONCRETE SHORE SLAB AT MIDSPAN UNTIL CONCRETE REACHES DESIGN STRENGTH.

AT BREAK B

1. FINISHED FLOOR (TOP OF MEZZANINE SLAB) ELEVATION 11'-4", UNLESS NOTED (±) INCHES.
2. TOP OF STEEL ELEVATION 10'-11", UNLESS NOTED (±) INCHES.
3. FLOOR SYSTEM: 3 1/2" NORMAL WEIGHT CONCRETE ON 1 1/2" COMPOSITE STEEL DECK (5" TOTAL). SEE GENERAL NOTES.
4. SPACE BEAMS EQUALLY BETWEEN COLUMN CENTERLINES, UNLESS NOTED.
5. [ ] INDICATES NUMBER OF 3/4" DIAMETER BY X" HEADED STUDS SPACED UNIFORMLY ALONG MEMBER WHERE SINGLE VALUE IS GIVEN. SPACE UNIFORMLY ALONG A PART OF MEMBER BETWEEN SUPPORTED BEAMS, OR COLUMN AND BEAM, WHERE MORE THAN ONE VALUE IS GIVEN. SEE GENERAL NOTES.
6. BEAM REACTIONS ARE INDICATED AT ENDS OF BEAMS AS "Xk" WHERE "X" IS THE MAGNITUDE OF THE WORKING LOAD SHEAR REACTIONS IN KIPS. REACTIONS SHOWN ON PLANS DO NOT INCLUDE VERTICAL COMPONENT OF AXIAL FORCES IN BRACES.
7. COORDINATE MECHANICAL OPENINGS WITH MECHANICAL DRAWINGS AND UNIT MANUFACTURER.
8. USE FULL DEPTH CONNECTIONS FOR BEAMS.

MEZZANINE FLOOR FRAMING PLAN - ENTRY AREA

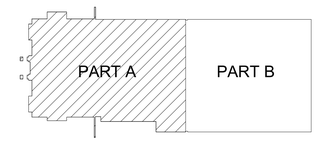
1/8" = 1'-0"

AT MECHANICAL MEZZANINE AND WALKWAYS

1. FINISHED FLOOR (TOP OF SLAB) ELEVATION 11'-8 1/2", UNLESS NOTED (±) INCHES.
2. TOP OF JOIST ELEVATION 11'-7 3/4", UNLESS NOTED (±) INCHES.
3. FLOOR (OR ROOF) SYSTEM: 3/4" USG STRUCTO-CRETE ON 8" LIGHT GAGE JOISTS. SEE GENERAL NOTES.
4. SPACE JOIST AS SHOWN.
5. COORDINATE MECHANICAL OPENINGS WITH MECHANICAL DRAWINGS AND UNIT MANUFACTURER.

AT VAULT

1. FINISHED FLOOR (TOP OF SLAB) ELEVATION 10'-11 3/4", UNLESS NOTED (±) INCHES.
2. FLOOR (OR ROOF) SYSTEM: 12" NORMAL WEIGHT CONCRETE SHORE SLAB AT MIDSPAN UNTIL CONCRETE REACHES DESIGN STRENGTH.



KEY PLAN

2/6/2026 7:43:3 AM
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REGISTERED
No. 17333
PROFESSIONAL
J. Stewart Lee
LEE
STEWART
6/22/2026

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
06/22/26

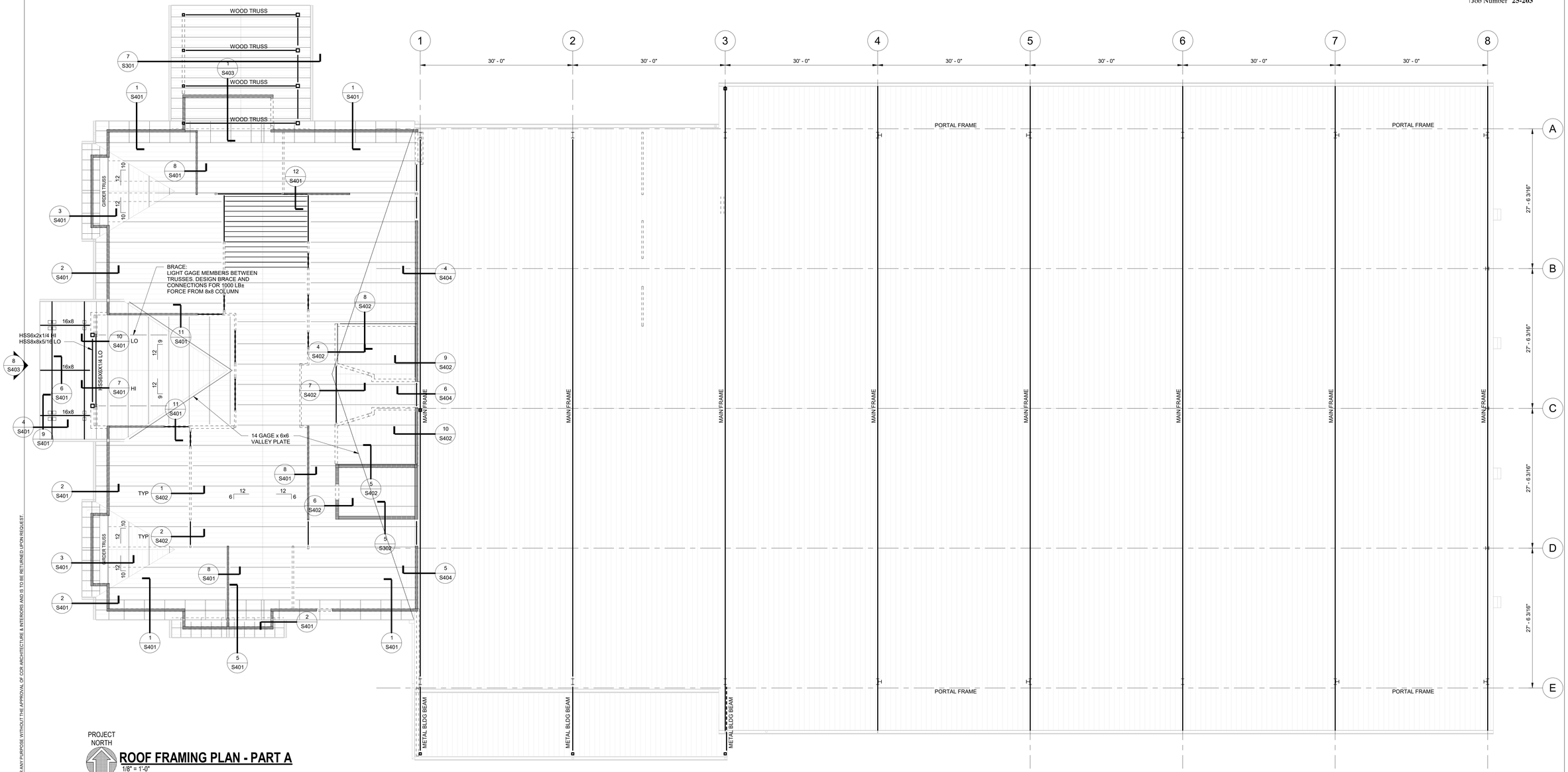
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#	DESCRIPTION	DATE

SHEET TITLE:
MEZZANINE FRAMING PLAN

SHEET NUMBER:
S202

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number **25-203**



PROJECT NORTH

ROOF FRAMING PLAN - PART A

1/8" = 1'-0"

1. ROOF SYSTEM: PREFABRICATED LIGHT GAGE METAL ROOF TRUSSES AT 48". SEE GENERAL NOTES. TRUSS LAYOUTS AND PROFILES BY OTHERS. TRUSSES BEAR ON WALLS AND BEAMS AS SHOWN.
2. ROOF DECKING: 1 1/2" WIDE RIB STEEL DECK, 22 GAGE, GALVANIZED. SEE GENERAL NOTES.
3. TRUSS BEARING ELEVATION 10'-11 3/4", ABOVE FLOOR.
4. DETAILS AND ANCHORS SHOWN ARE TYPICAL FOR ENTIRE BUILDING.
5. FOR DIMENSIONS SEE FOUNDATION PLAN.
6. ALL EXTERIOR WALLS SHALL BE LOAD BEARING.
7. VALLEY SET TRUSSES IF REQUIRED, EXTEND ROOF DECK BENEATH TRUSSES AND FASTEN TO TRUSS BELOW.
8. PROVIDE BLOCKING BETWEEN TRUSSES AS REQUIRED FOR ELECTRICAL FIXTURE SUPPORT.
9. POSITION TRUSSES TO AVOID HVAC UNITS AND DUCTS. MECHANICAL UNITS ARE SHOWN FOR INFORMATION PURPOSES ONLY. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS. LOCATIONS SHOWN ARE EXAMPLES, EXACT LOCATIONS TO BE COORDINATED BY CONTRACTOR.
10. PROVIDE BLOCKING AT RIDGE AND VALLEYS TO SUPPORT STEEL DECK.
11. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY THE SIZE, WEIGHT AND LOCATION OF ALL CONCENTRATED AND MECHANICAL LOADS WITH THE TRUSS MANUFACTURER.
12. HANGER LOCATIONS FOR PIPING LARGER THAN 3 INCHES IN DIAMETER MUST BE COORDINATED BY GENERAL CONTRACTOR WITH THE TRUSS MANUFACTURER. FOR PIPING WEIGHTS SEE TABLE ON SHEET S103.
13. STEP BOTTOM CHORD OF TRUSSES AS REQUIRED.
14. DRAG STRUT BLOCKING TRUSS, TRUSS MANUFACTURER DESIGN TRUSS AND CONNECTION TO STRUCTURE FOR THE LOADS AS INDICATED.
15. ▤ INDICATES SHEAR WALL. SEE TYPICAL DETAIL.
16. PREFABRICATED METAL BUILDING OCCURS FROM LINE 1 TO 8. SEE GENERAL NOTES, SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

PROJECT NORTH

ROOF FRAMING PLAN - PART B

1/8" = 1'-0"

1. PREFABRICATED METAL BUILDING OCCURS FROM LINE 1 TO 8. SEE GENERAL NOTES, SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR EQUIPMENT SUPPORTED BY THE METAL BUILDING.

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6/22/2026

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
06/22/26

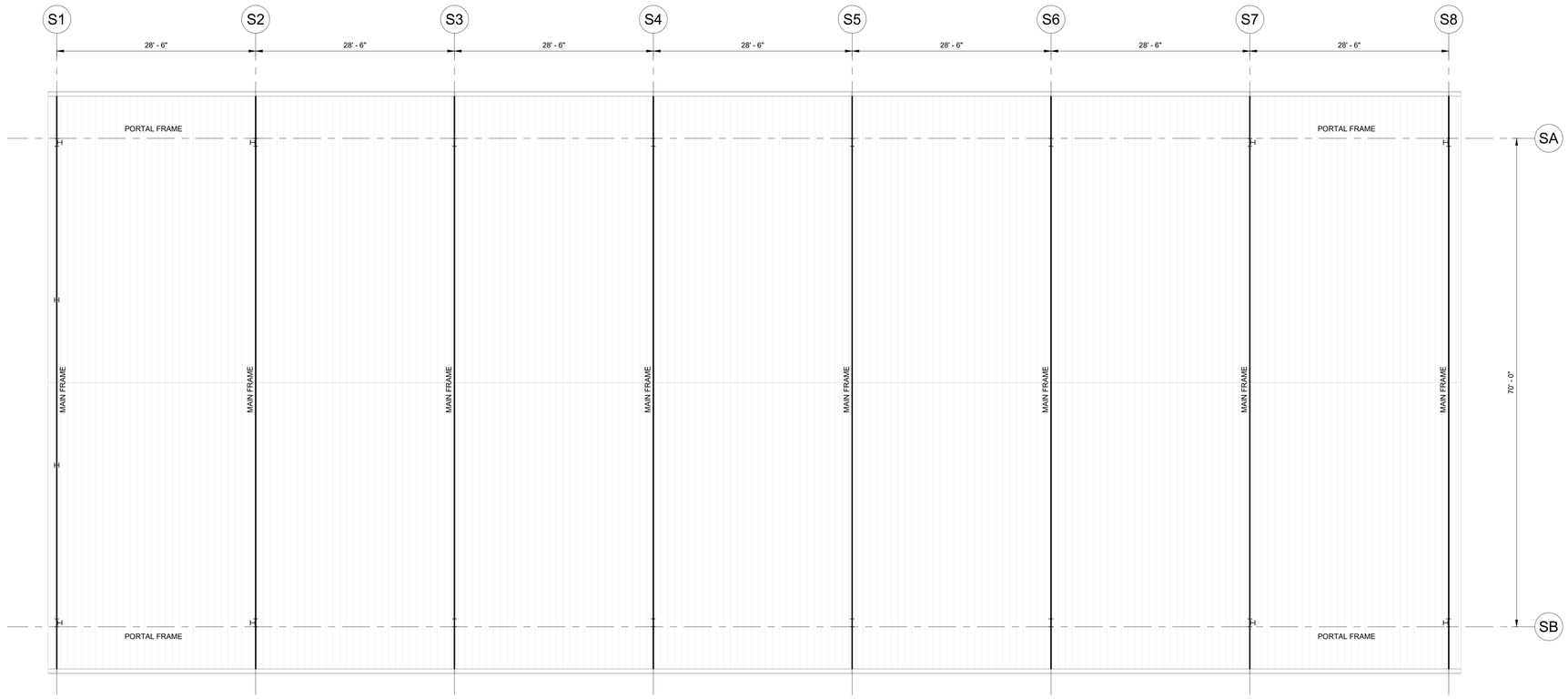
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#	DESCRIPTION	DATE

SHEET TITLE:
ROOF FRAMING PLAN

SHEET NUMBER:
S203

SDG
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Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number **25-203**

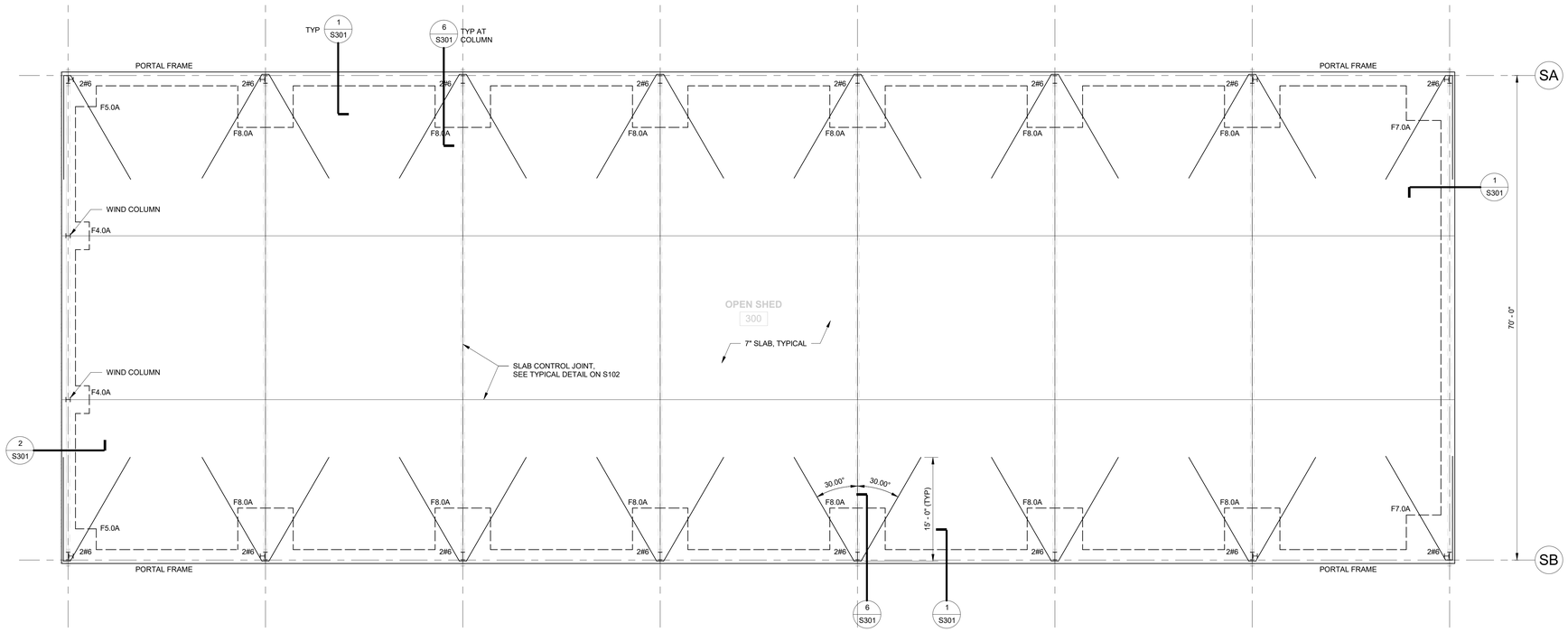


PROJECT NORTH

ROOF FRAMING PLAN - SHED

1/8" = 1'-0"

1. PREFABRICATED METAL BUILDING OCCURS FROM LINE S1 TO S8. SEE GENERAL NOTES, SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR EQUIPMENT SUPPORTED BY THE METAL BUILDING.



PROJECT NORTH

LEVEL 1 FOUNDATION PLAN - SHED

1/8" = 1'-0"

1. FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED.
2. TOP OF FOOTING ELEVATION 0'-0", UNLESS NOTED.
3. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
4. FOR SLAB RECESS, SLOPES TO DRAIN AND DEPRESSIONS, SEE ARCHITECTURAL DRAWINGS AND DETAILS ON S102.
5. GENERAL CONTRACTOR TO COORDINATE ALL DRAWINGS WITH THE METAL BUILDING SUPPLIER BEFORE FOUNDATION INSTALLATION BEGINS. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
6. "FX.X" INDICATES FOOTING, SEE SCHEDULE ON S102 FOR MORE INFORMATION.
7. GENERAL CONTRACTOR SHALL OBTAIN AND LAYOUT COLUMN ANCHOR RODS FROM ANCHOR ROD SETTING PLAN PROVIDED BY THE METAL BUILDING MANUFACTURER.
8. COORDINATE ALL BUILDING OFFSETS AND SLAB EDGE WITH ARCHITECTURAL DRAWINGS.

ALABAMA REGISTERED No. 17333 PROFESSIONAL J. STEWART LEE
6/22/2026

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

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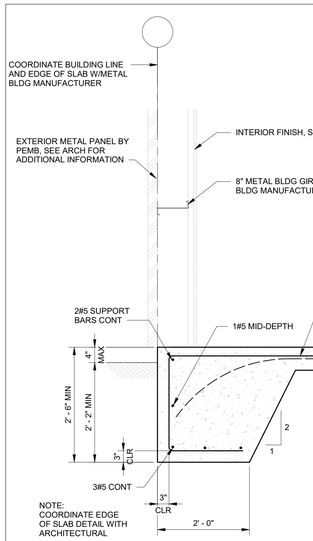
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LEVEL 1 FOUNDATION AND ROOF FRAMING PLAN - SHED

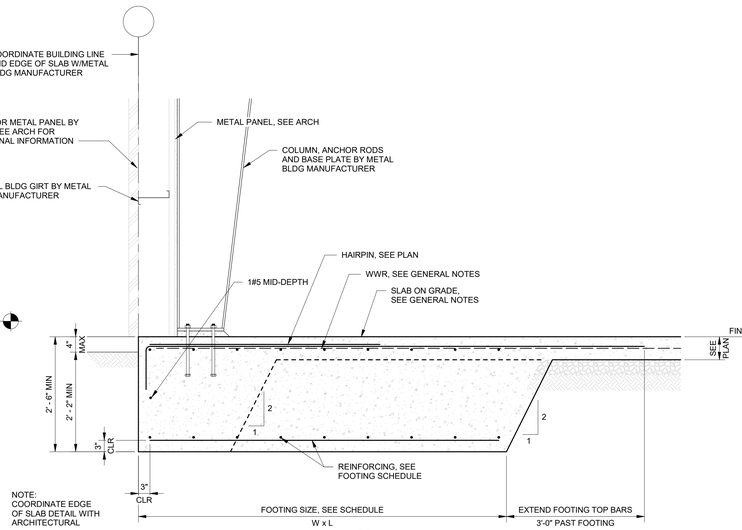
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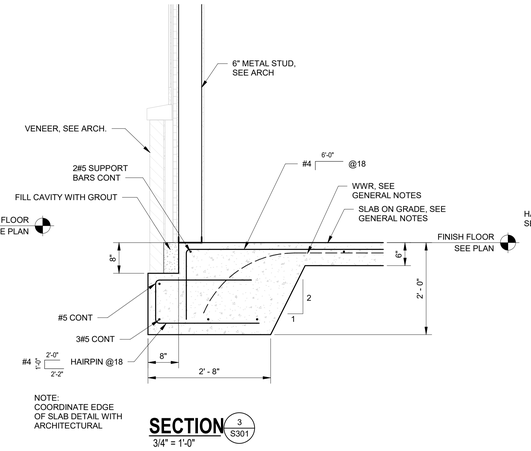
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STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL. 35244
tel 205-824-5200
fax 205-824-5280
Job Number **25-203**



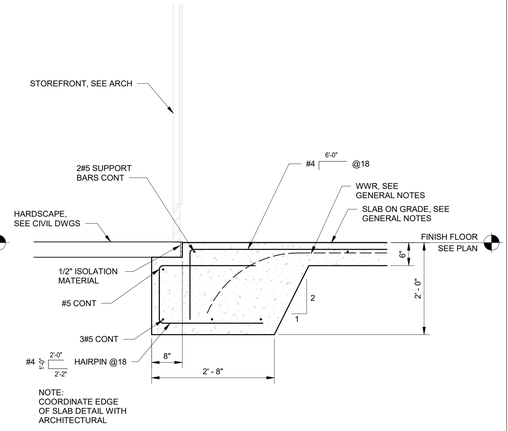
SECTION 1/S301
3/4" = 1'-0"



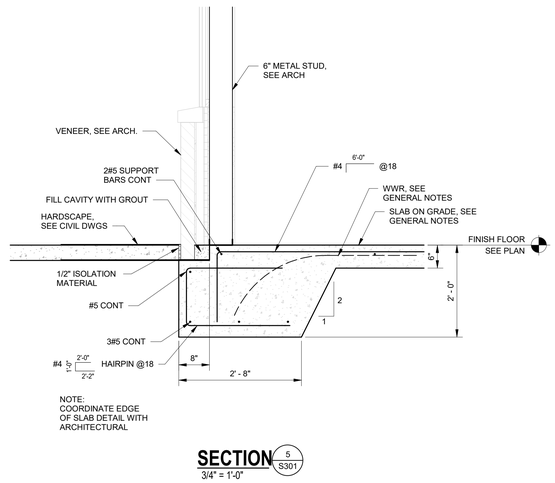
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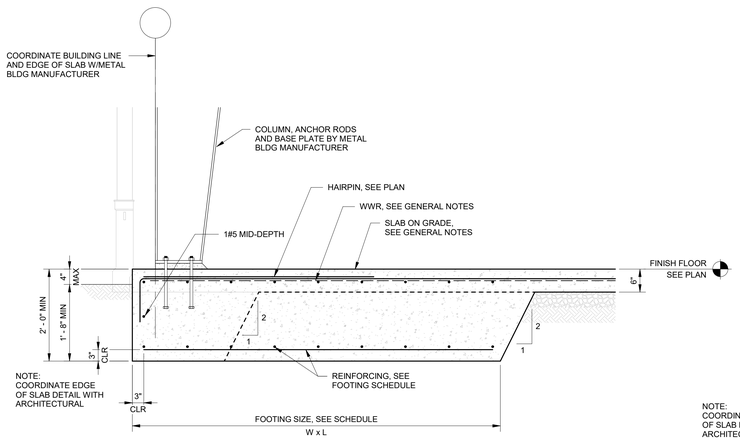
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3/4" = 1'-0"



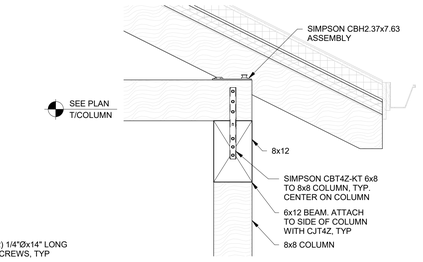
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3/4" = 1'-0"



SECTION 5/S301
3/4" = 1'-0"



SECTION 6/S301
3/4" = 1'-0"



DETAIL 7A/S301
1" = 1'-0"

SECTION 7/S301
3/4" = 1'-0"

2/22/26 7:44:27 AM
J:\Projects\25-203 Jasper Waterworks, Structural\R24.rvt
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No. 17333
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J. Stewart Lee
STEWART
6/22/2026

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
06/22/26

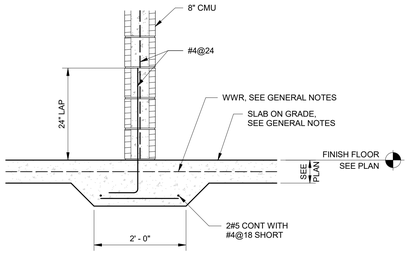
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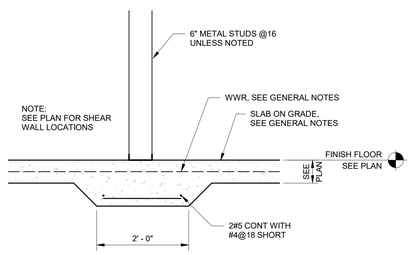
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S301

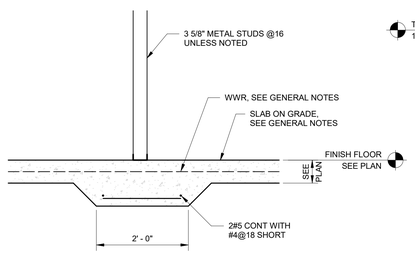
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Hoover, AL 35244
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Job Number **25-203**



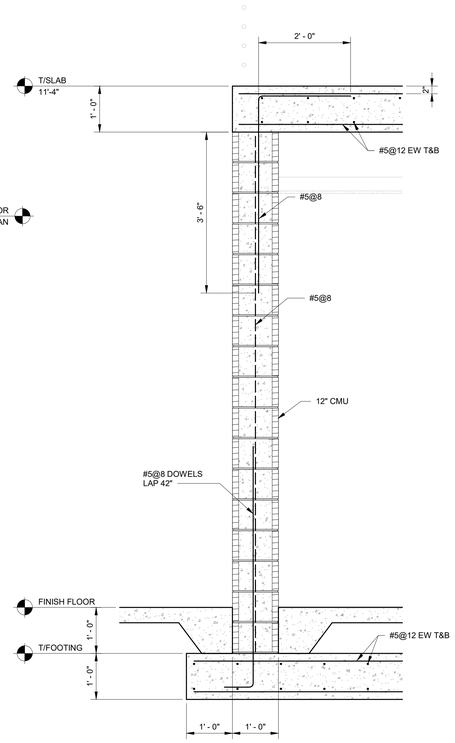
SECTION 1/S302
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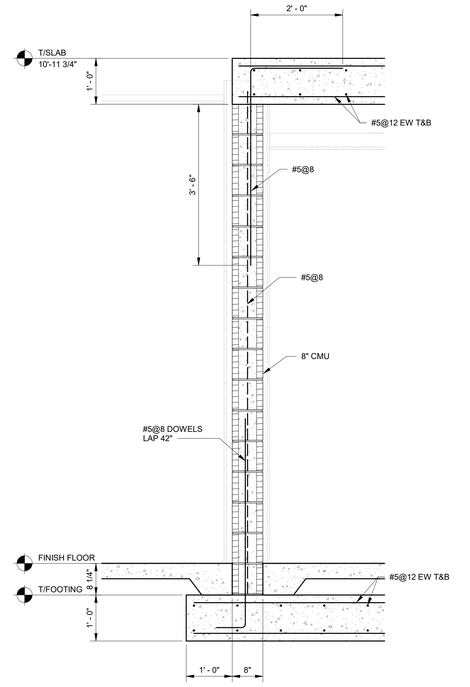
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3/4" = 1'-0"



SECTION 3/S302
3/4" = 1'-0"



SECTION 4/S302
3/4" = 1'-0"



SECTION 5/S302
3/4" = 1'-0"

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A. A. B. A. M.
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No. 17333
PROFESSIONAL
J. STEWART LEE
6/22/2026

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
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DATE:
06/22/26

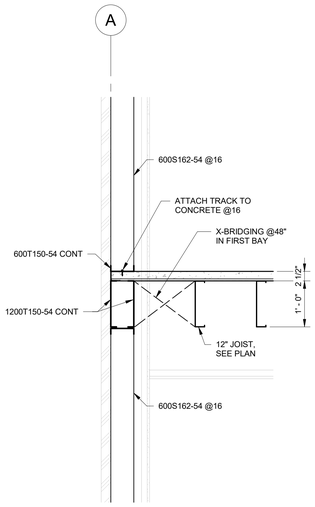
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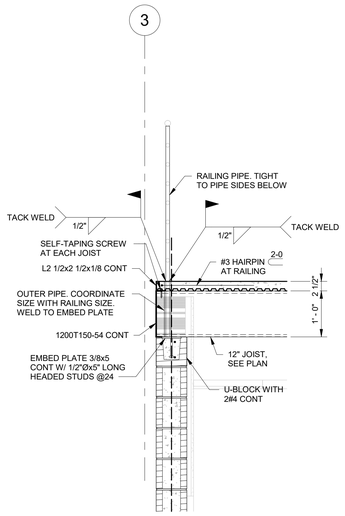
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SHEET NUMBER:
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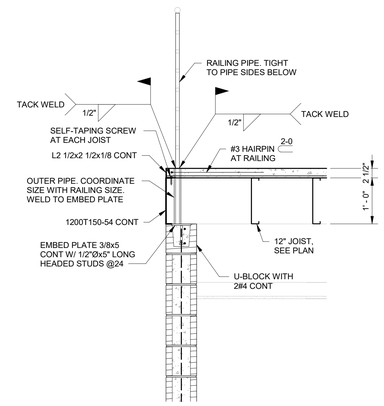
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Hoover, AL. 35244
tel 205-824-5200
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Job Number **25-203**



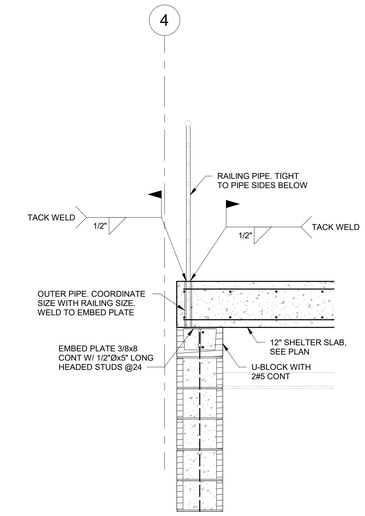
SECTION 1/S303
3/4" = 1'-0"



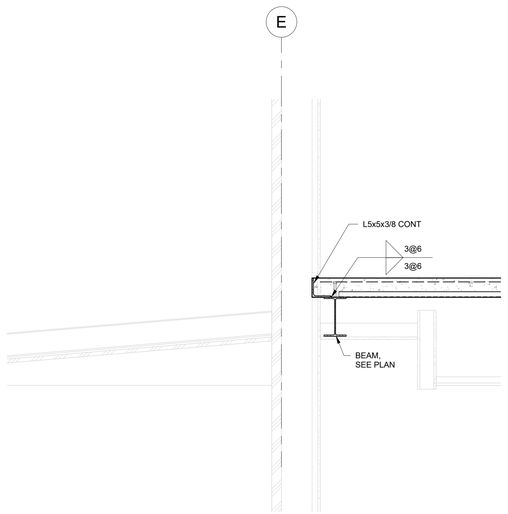
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3/4" = 1'-0"



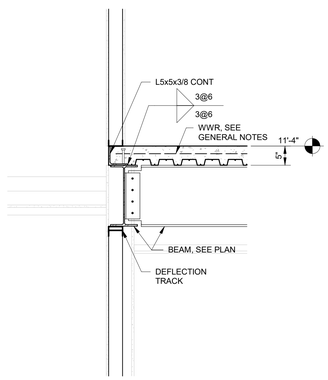
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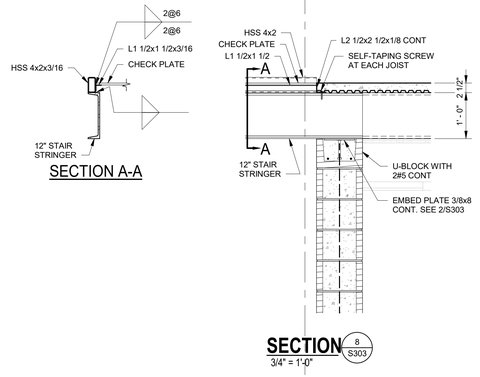
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SECTION 6/S303
3/4" = 1'-0"



SECTION 7/S303
3/4" = 1'-0"



SECTION 8/S303
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A.L.A.B.A.M.
REGISTERED
No. 17333
PROFESSIONAL
J. Stewart Lee
STEWART
6/22/2026

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

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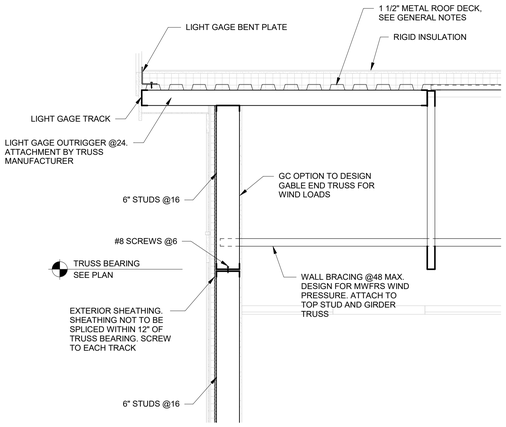
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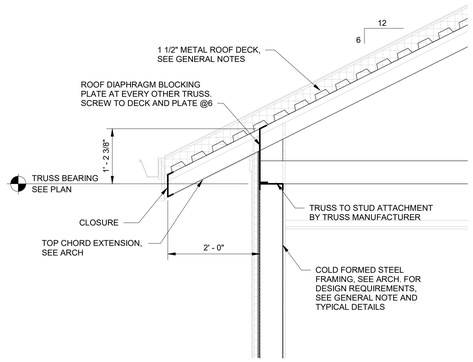
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fax 205-824-5280
Job Number **25-203**

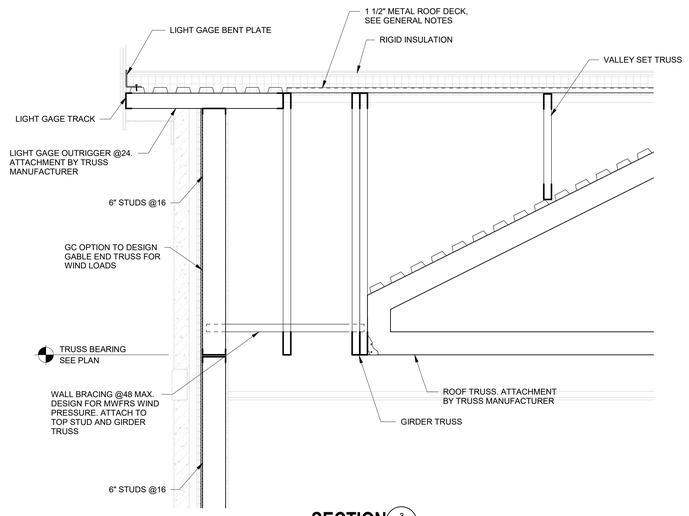




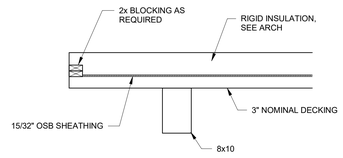
SECTION 1 / S401
3/4" = 1'-0"



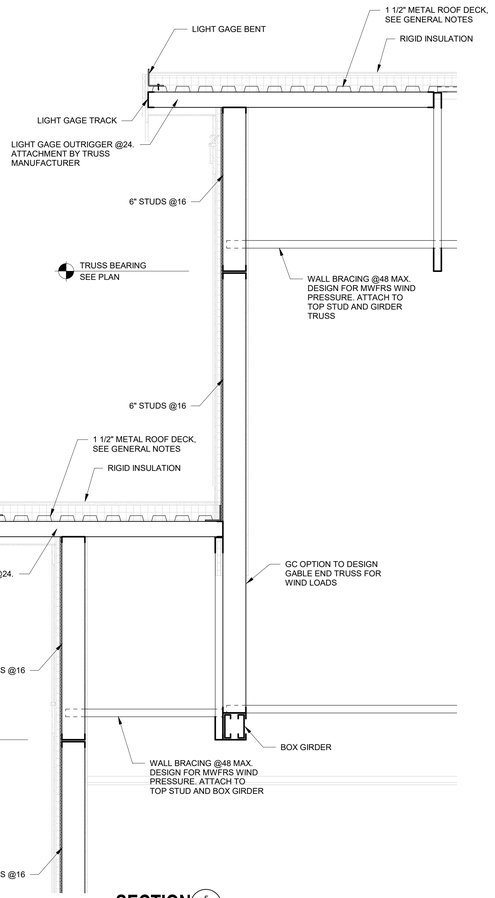
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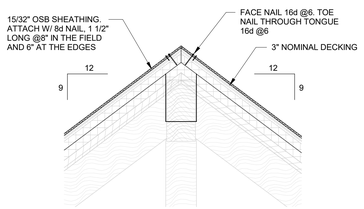
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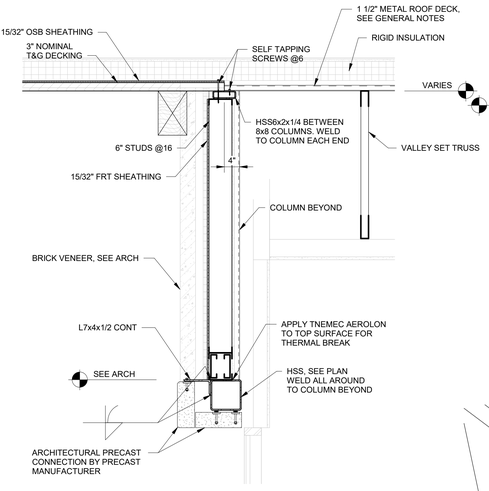
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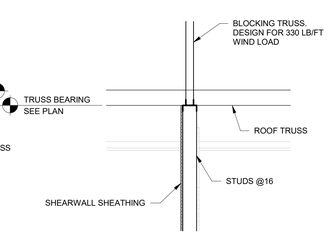
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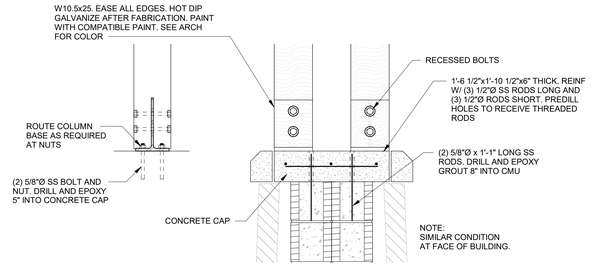
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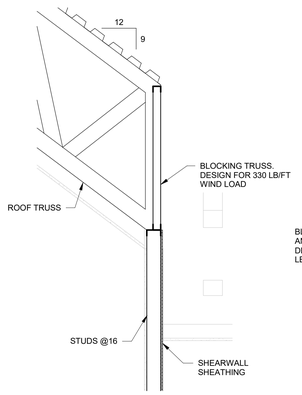
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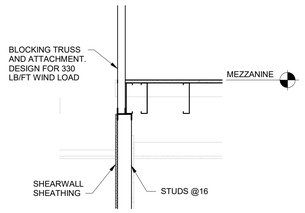
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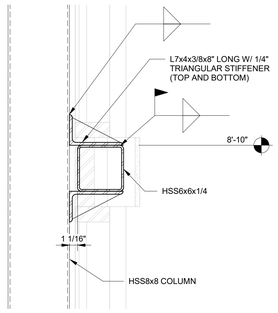
SECTION 9 / S401
1" = 1'-0"



SECTION 11 / S401
3/4" = 1'-0"



SECTION 12 / S401
3/4" = 1'-0"



SECTION 10 / S401
1 1/2" = 1'-0"

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
06/22/26

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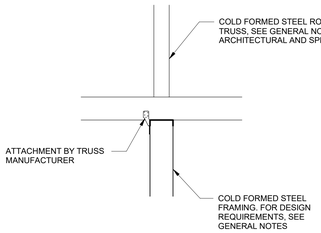
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SECTIONS

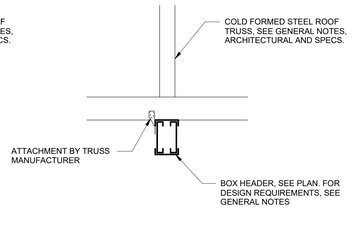
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9/5/2025 3:53:17 PM
Autodesk Docs://23031-A Jasper WW - New Build/23-203_Jasper Waterworks_Structural_R24.rvt

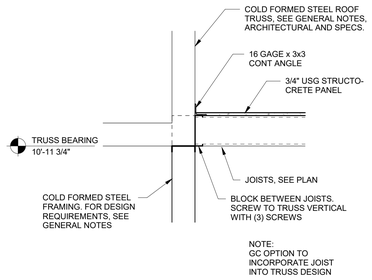
SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number **25-203**



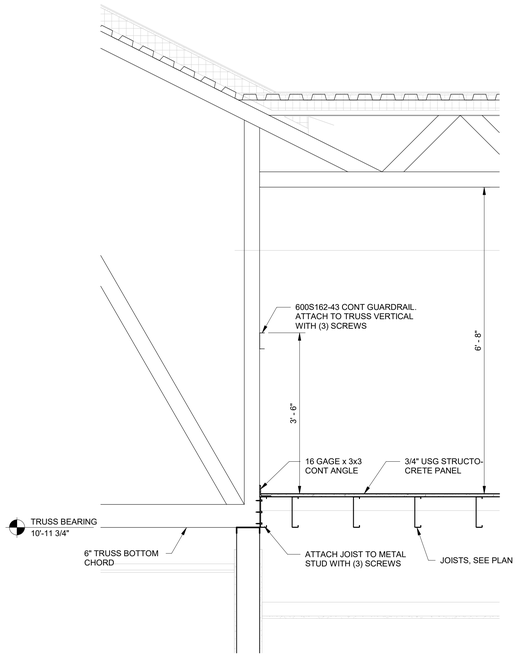
SECTION 1/S402
3/4" = 1'-0"



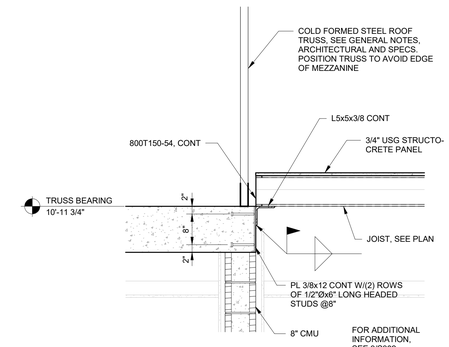
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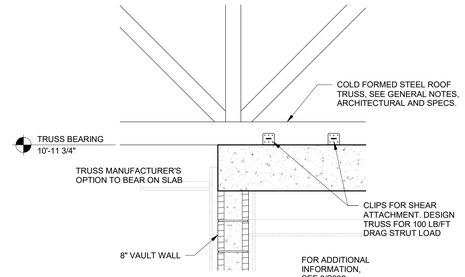
DETAIL 3/S402
3/4" = 1'-0"



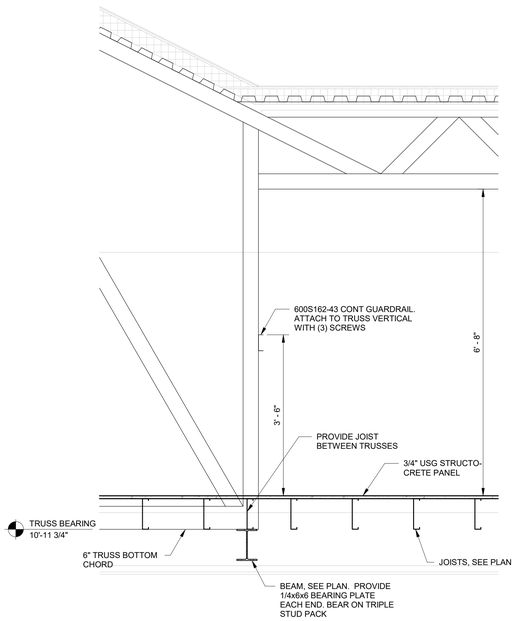
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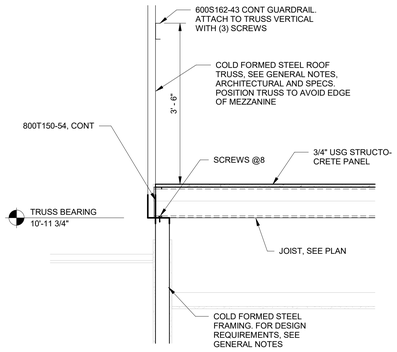
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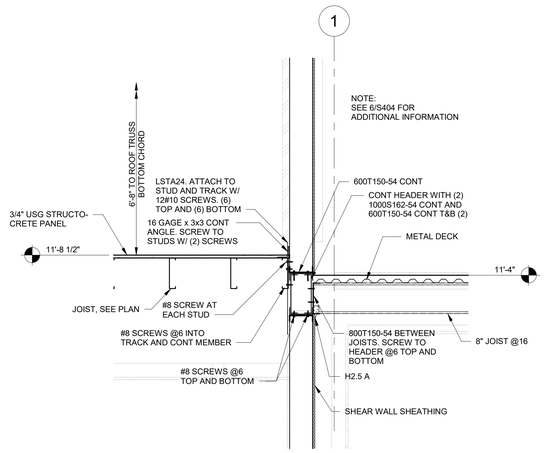
SECTION 6/S402
3/4" = 1'-0"



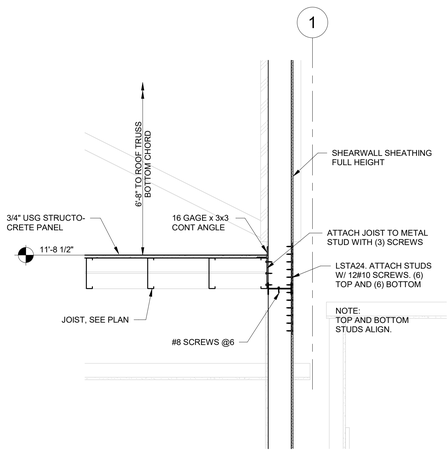
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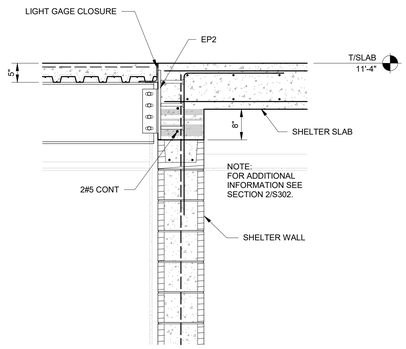
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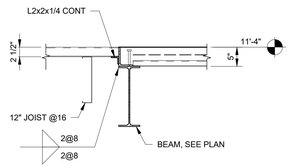
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3/4" = 1'-0"



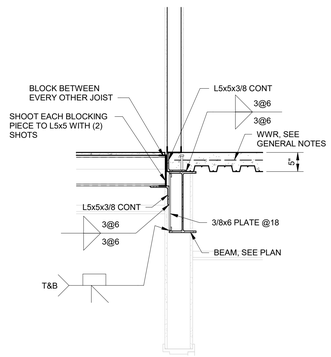
SECTION 10/S402
3/4" = 1'-0"



SECTION 11/S402
3/4" = 1'-0"



SECTION 12/S402
3/4" = 1'-0"



SECTION 13/S402
3/4" = 1'-0"

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A L A B A M A
REGISTERED
No. 17333
PROFESSIONAL
ENGINEER
J. STEWART LEE
6/22/2026

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
06/22/26

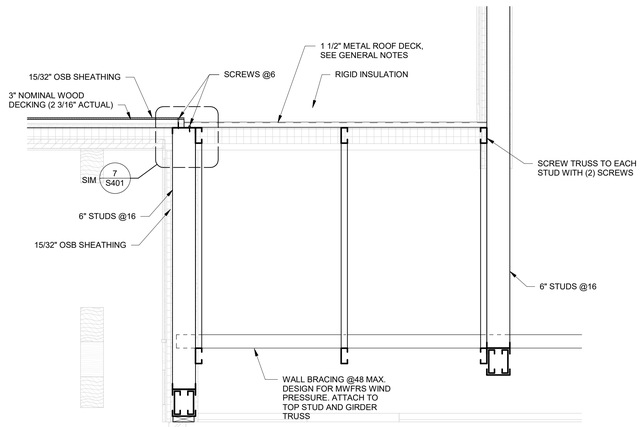
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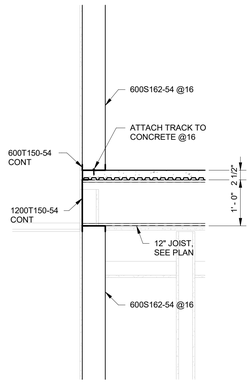
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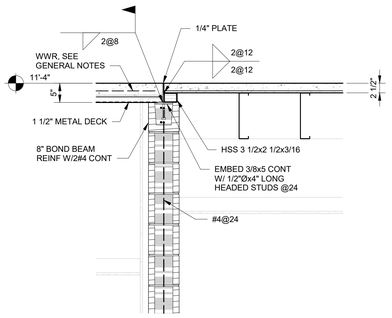
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S402

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number **25-203**

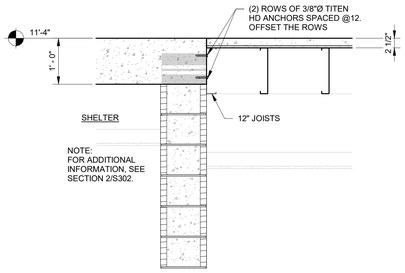




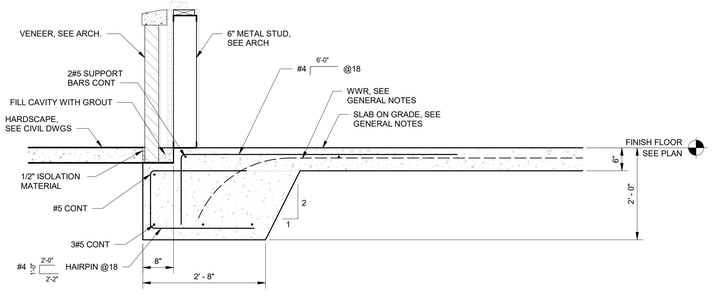
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3/4" = 1'-0"



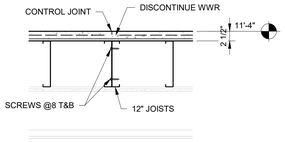
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3/4" = 1'-0"

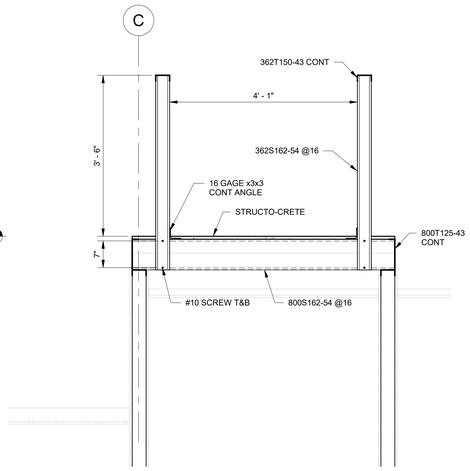


SECTION 5 S403
3/4" = 1'-0"



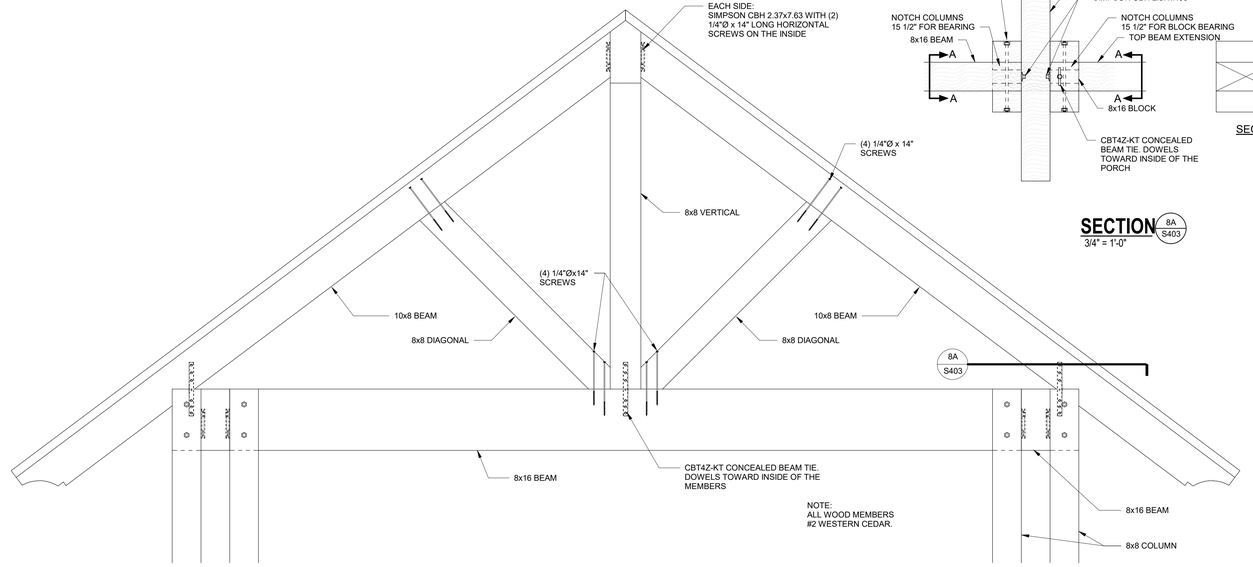
SECTION 1 S403
3/4" = 1'-0"





SECTION 6 S403
3/4" = 1'-0"

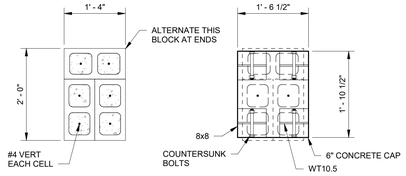
SECTION 7 S403
3/4" = 1'-0"



ELEVATION 8 S403
3/4" = 1'-0"

SECTION A-A

SECTION 8A S403
3/4" = 1'-0"



SECTION 9 S403
3/4" = 1'-0"

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
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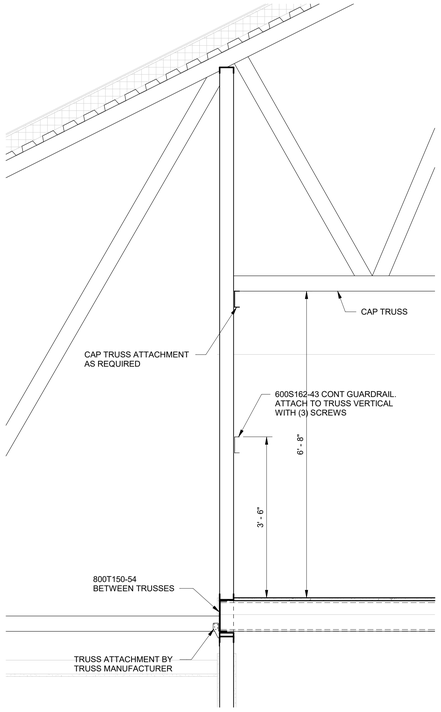
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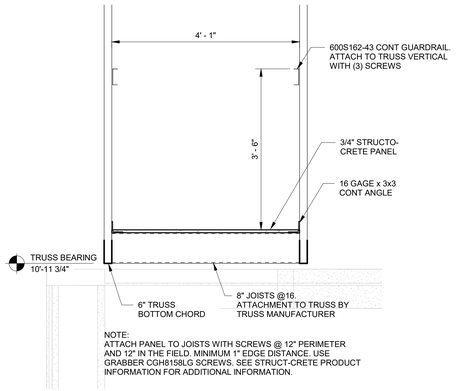
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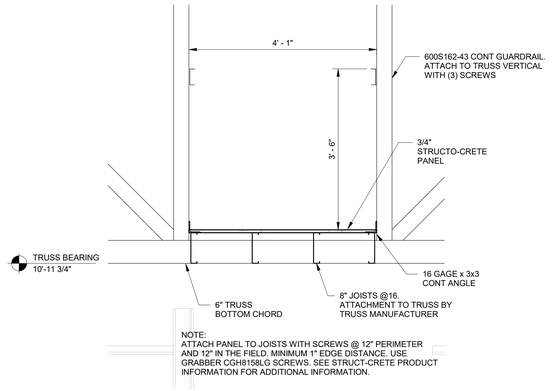
SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number **25-203**



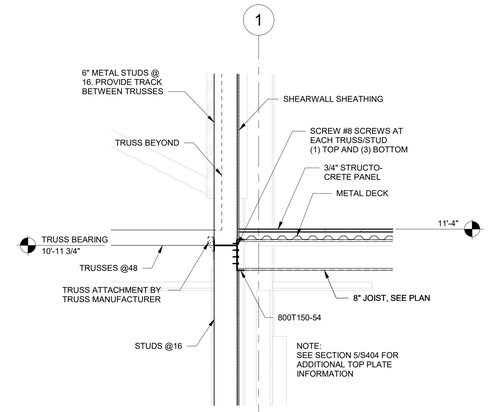
SECTION 1/S404
3/4" = 1'-0"



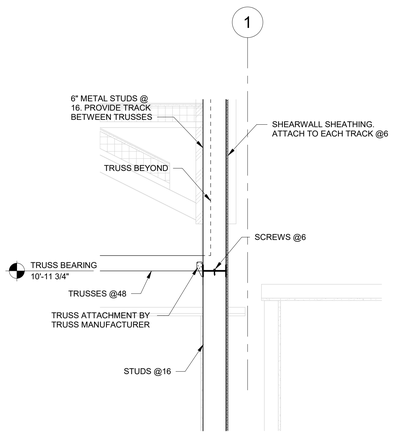
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3/4" = 1'-0"



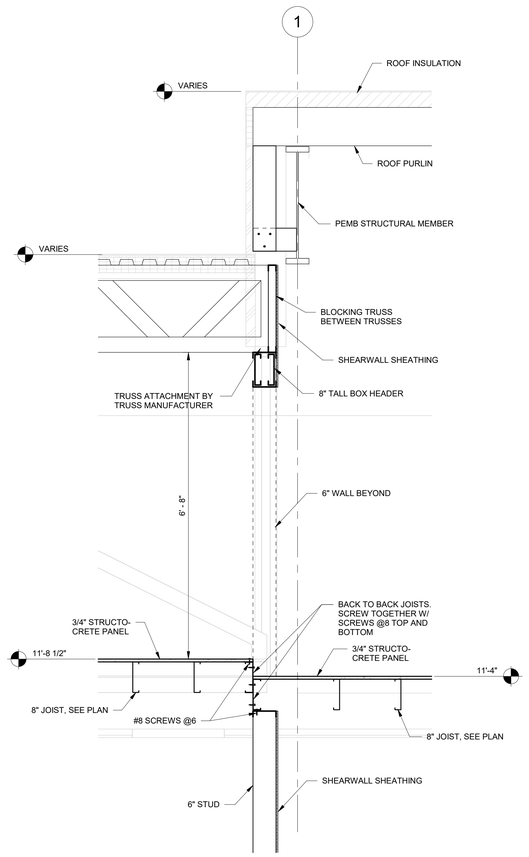
SECTION 3/S404
3/4" = 1'-0"



SECTION 4/S404
3/4" = 1'-0"



SECTION 5/S404
3/4" = 1'-0"



SECTION 6/S404
3/4" = 1'-0"

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ALABAMA REGISTERED No. 17333 PROFESSIONAL J. Stewart Lee STEWART
6/22/2026

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

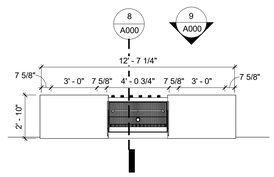
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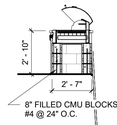
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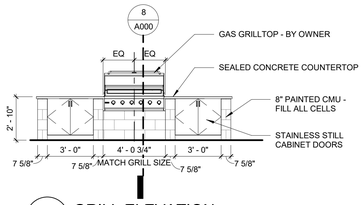
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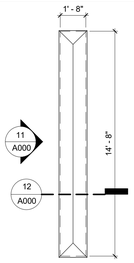
7 ENLARGE GRILL PLAN
1/4" = 1'-0"



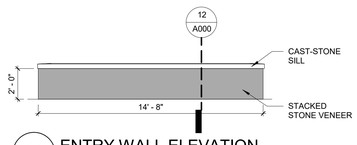
8 GRILL SECTION
1/4" = 1'-0"



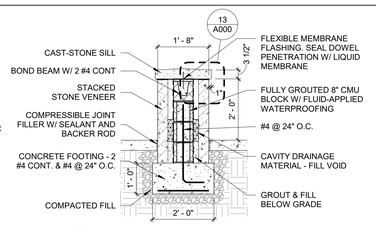
9 GRILL ELEVATION
1/4" = 1'-0"



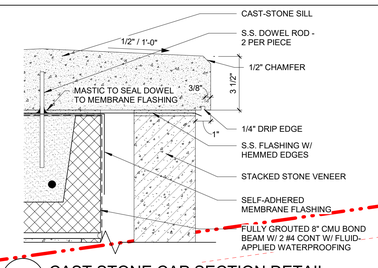
10 EXTERIOR ENTRY WALL
1/4" = 1'-0"



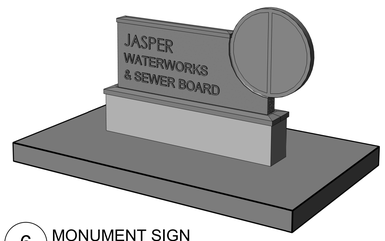
11 ENTRY WALL ELEVATION
1/4" = 1'-0"



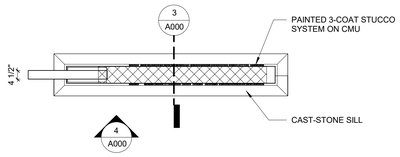
12 ENTRY WALL SECTION
1/2" = 1'-0"



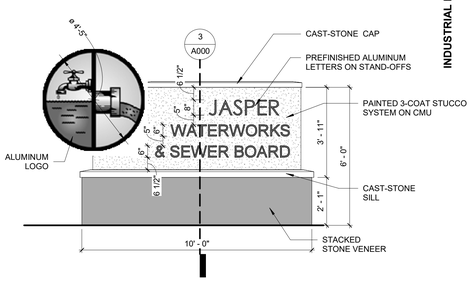
13 CAST STONE CAP SECTION DETAIL
3" = 1'-0"



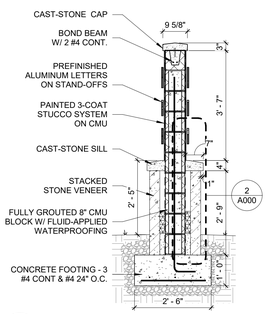
6 MONUMENT SIGN



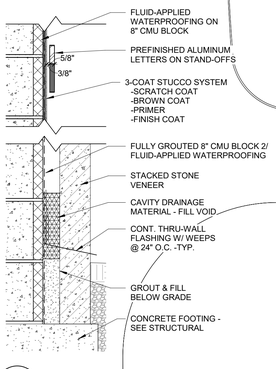
5 MONUMENT SIGN PLAN
3/8" = 1'-0"



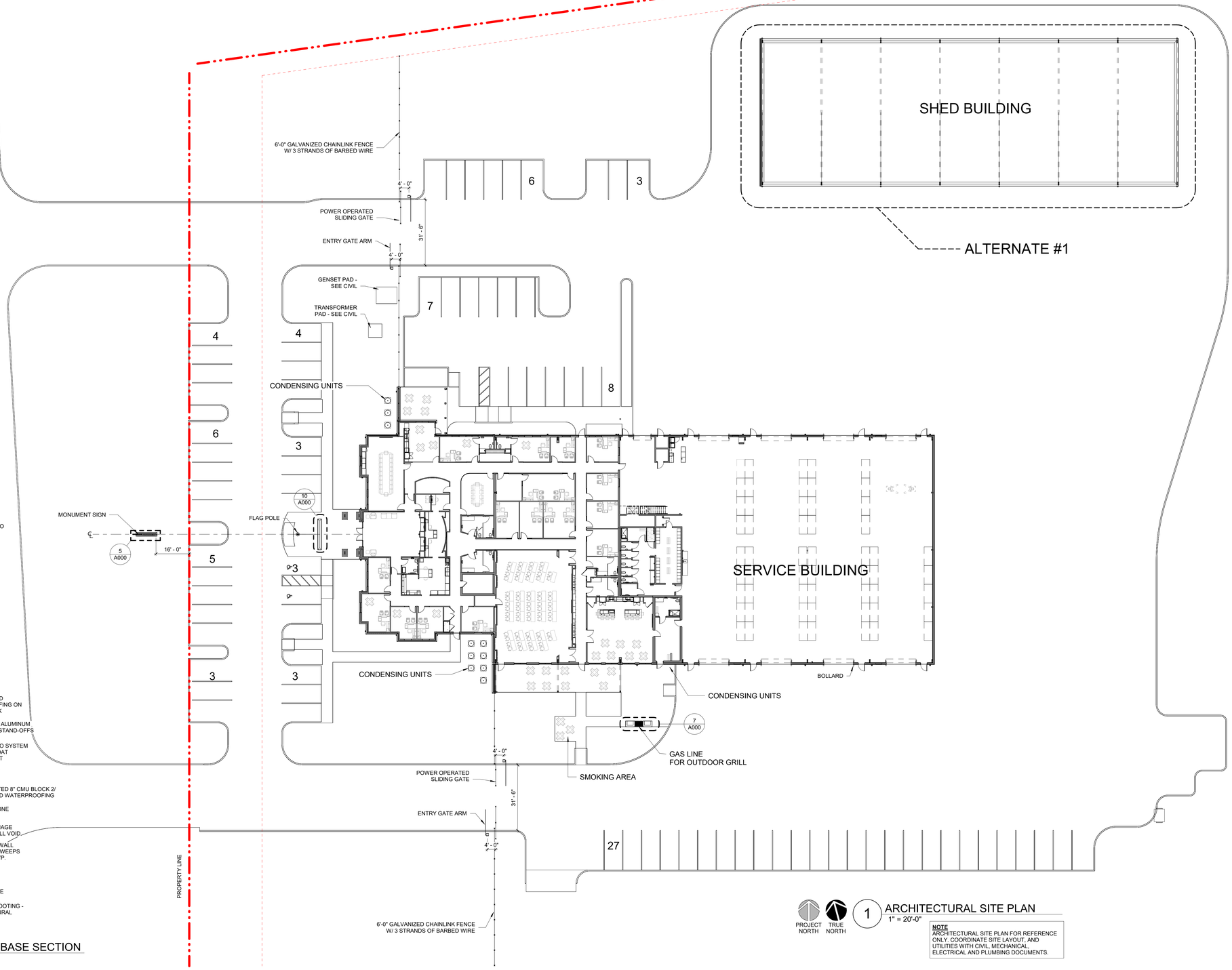
4 MONUMENT SIGN ELEVATION
3/8" = 1'-0"



3 MONUMENT SIGN SECTION
1/2" = 1'-0"



2 MONUMENT SIGN BASE SECTION
1 1/2" = 1'-0"



1 ARCHITECTURAL SITE PLAN
1" = 20'-0"

NOTE
ARCHITECTURAL SITE PLAN FOR REFERENCE ONLY. COORDINATE SITE LAYOUT, AND UTILITIES WITH CIVIL, MECHANICAL, ELECTRICAL AND PLUMBING DOCUMENTS.

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STATE OF ALABAMA
TAMMY DANIELS COHEN
REGISTRATION NO. 4168
ARCHITECT
BIRMINGHAM ALABAMA
REGISTERED ARCHITECT

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

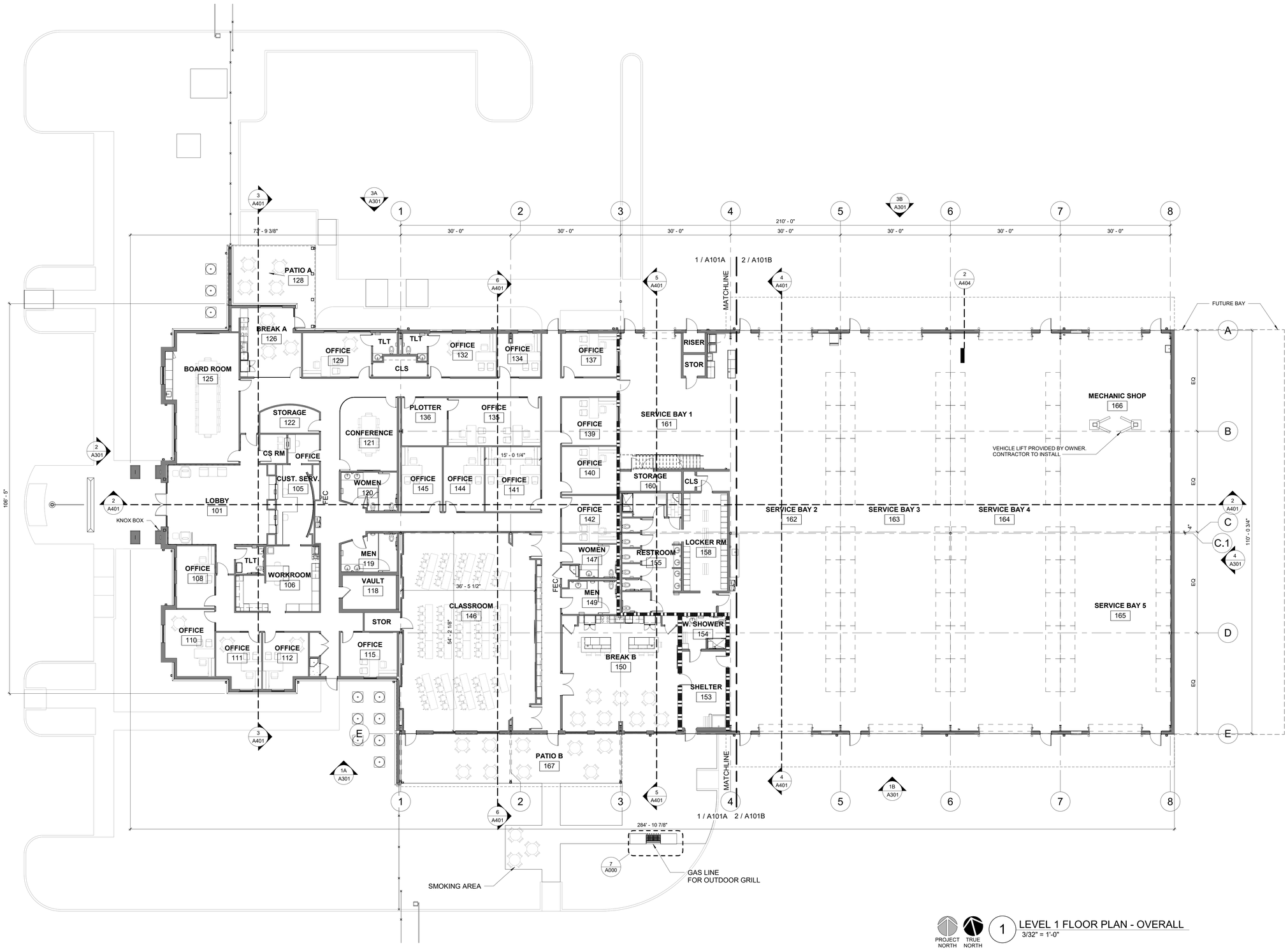
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ARCHITECTURAL SITE PLAN

SHEET NUMBER:
A000



PROJECT NORTH TRUE NORTH

1 LEVEL 1 FLOOR PLAN - OVERALL
3/32" = 1'-0"

STATE OF ALABAMA
TAMMY DANIELS COHEN
REGISTRATION NO. 4168
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JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

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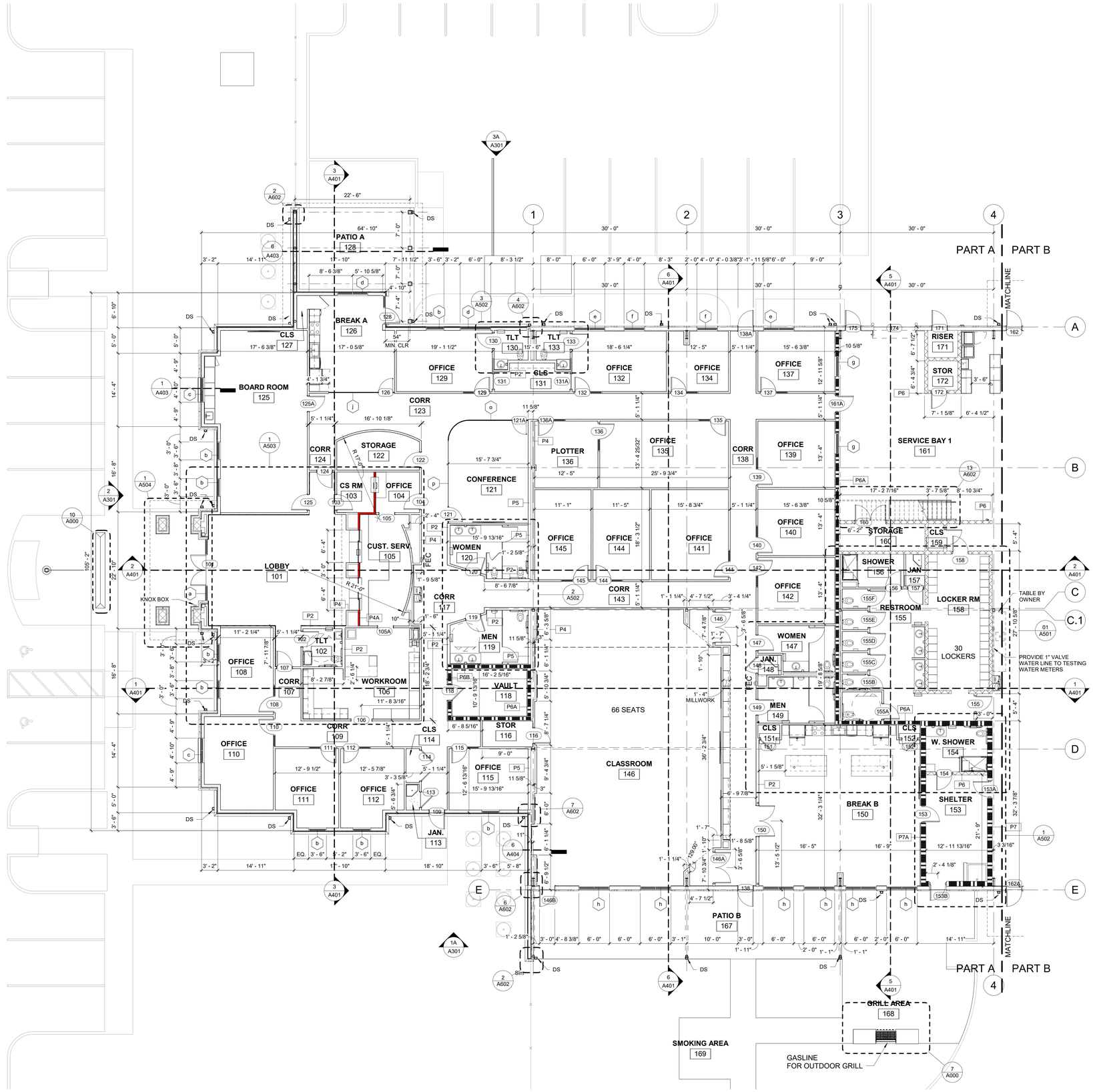
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LEVEL 1 FLOOR PLAN - OVERALL

SHEET NUMBER:
A100

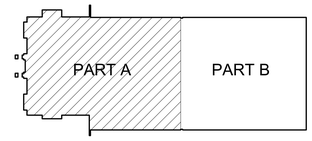
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WALL & PARTITION TYPE NOTES:

1. REFER TO G003 FOR INTERIOR PARTITION TYPES.
2. INTERIOR PARTITIONS TO BE **P1** U.N.O.
3. SEE INTERIOR ELEVATIONS AND INTERIOR FINISH SCHEDULES FOR WALL FINISH MATERIALS NOT SHOWN IN WALL TYPE DRAWINGS OR SCHEDULES. EXAMPLES OF WALL FINISH MATERIAL NOT SHOWN HERE INCLUDES, BUT IS NOT LIMITED TO: WALL TILE, WAINSCOT, AND SPECIAL TRIM.
4. SEE INTERIOR FINISH NOTES FOR BASE MATERIALS NOT SHOWN IN WALL TYPE DRAWINGS.
5. PAINT ALL GYPSUM BOARD, UNLESS NOTED OTHERWISE.
6. AT CMU WALLS AND PARTITIONS, SEE STRUCTURAL FOR SPACING OF GROUTED CELLS.
7. AT CMU WALLS AND PARTITIONS, SEE STRUCTURAL FOR SPACING AND TYPE OF HORIZONTAL AND VERTICAL REINFORCING.
8. PROVIDE GYPSUM BOARD CONTROL JOINTS AT 30' O.C. MAX, PER MANUFACTURER'S RECOMMENDATIONS, OR PER WRITTEN SPECIFICATIONS, WHICHEVER IS MOST STRINGENT. WHERE POSSIBLE LOCATE CONTROL JOINTS ABOVE DOOR FRAMES.
9. PROVIDE BLOCKING FOR ALL REQUIRED ITEMS SUCH AS, BUT NOT LIMITED TO; PLUMBING FIXTURES, TOILET ACCESSORIES, ACCESS PANELS, TELEVISIONS, DRINKING FOUNTAINS, AND WALL HUNG COUNTERS AND CABINETRY. BLOCKING SHALL COMPLY WITH REQUIREMENTS FOR NOTED FIRE RATED ASSEMBLIES.
10. PROVIDE MOISTURE RESISTANT GYPSUM BOARD WHERE GYPSUM BOARD IS NOTED IN TOILETS, CLOSETS, SHOWERS, TUBS, AND OTHER AREAS SUBJECT TO MOISTURE.
11. WHERE TILE OR FIBERGLASS REINFORCED PANELS ARE USED ON METAL STUD WALLS, PROVIDE CEMENTIOUS BACKER BOARD OR WATER-RESISTANT CORE GYPSUM BOARD BETWEEN TILE AND WALL.
12. AT METAL STUD WALLS, USE STUD GAUGES AND SPACING THAT MEET THE MOST STRINGENT OF THE FOLLOWING REQUIREMENTS: FIRE RATED TESTING, SPECIFIED REFERENCE STANDARDS, AND MANUFACTURER'S REQUIREMENTS.
13. ALL WALLS CONTAINING PLUMBING OR HAVING AN EXTERIOR FACE SHALL BE INSULATED.
14. ALL ROOMS WITH METAL STUD FRAMING SHALL HAVE THEIR PERIMETER PARTITIONS INSULATED WITH SOUND ATTENUATION BATTS.
15. ALL ROOMS WITH CEILINGS, EXCLUDING CORRIDORS, STORAGE, AND JANITOR'S CLOSETS, SHALL HAVE SOUND ATTENUATION BATT INSULATION PLACED ON TOP OF THEIR CEILING, **OR** HAVE THEIR WALLS WITH SOUND ATTENUATION BATT INSULATION EXTEND TO THE STRUCTURAL DECK ABOVE.
16. ALL FIRE OR SMOKE RATED WALLS SHALL EXTEND FROM TOP OF SLAB TO UNDERSIDE OF STRUCTURE. SEAL TOP AND BOTTOM AS REQUIRED BY NOTED FIRE RATED ASSEMBLY, TYPICAL.
17. ALL INTERIOR ROOF DRAINS AND OVERFLOW DRAINS SHALL BE WRAPPED CONTINUOUSLY WITH SOUND ATTENUATION INSULATION.
18. INSTALL FRAMING AND GYPSUM WALL BOARD TO OFFSET AROUND STRUCTURAL MEMBERS OR OTHER OBSTRUCTIONS TO MAINTAIN FIRE RESISTIVE RATINGS.
19. WHERE GYPSUM WALL BOARD EXTENDS TO THE UNDERSIDE OF STRUCTURE, STOP GYPSUM WALL BOARD 1/2" BELOW LINE OF STRUCTURE AND SEAL. WHERE WALL IS FIRE RATED, SEALING SHALL BE PER FIRE RATED ASSEMBLY REQUIREMENTS.
20. SEALANT USED FOR EACH WALL AND WALL PENETRATIONS SHALL BE PER THE REQUIREMENTS OF THE NOTED FIRE OR SMOKE RATED WALL/ PARTITION REQUIREMENTS.
21. NON-RATED PARTITIONS SHALL BE INSTALLED WITH ACOUSTICAL SEALANT, UNLESS NOTED OTHERWISE.
22. REFER TO MECHANICAL AND PLUMBING FOR REQUIREMENTS OF MECHANICAL AND PLUMBING PENETRATIONS THROUGH ACOUSTICAL AND RATED PARTITIONS.
23. DO NOT INSTALL GYPSUM WALL BOARD IN DIRECT CONTACT WITH THE FLOOR. ALL GYPSUM BOARD/ FLOOR JUNCTION, SHIM 1/2" OFF THE FLOOR WITH NON-POROUS SHIMS. PLASTIC NON-POROUS HORSESHOE SHIMS ARE RECOMMENDED. GYPSUM WALL BOARD SHIMS ARE NOT ACCEPTABLE.



KEY PLAN

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STATE OF ALABAMA
TAMMY DANIELS COHEN
REGISTRATION NO. 4168
ARCHITECT
BIRMINGHAM ALABAMA
REGISTERED ARCHITECT

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

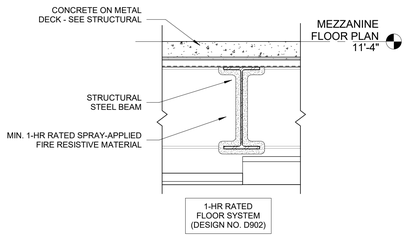
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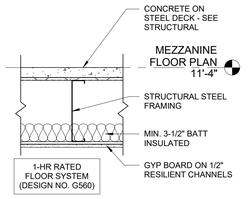
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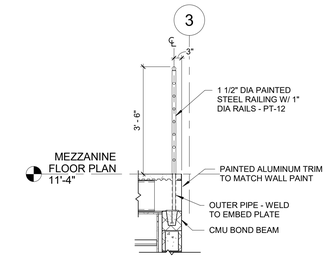
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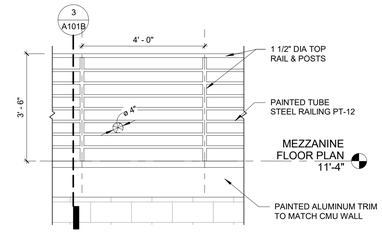
5 1-HR RATED FLOOR ASSEMBLY - SF
1" = 1'-0"



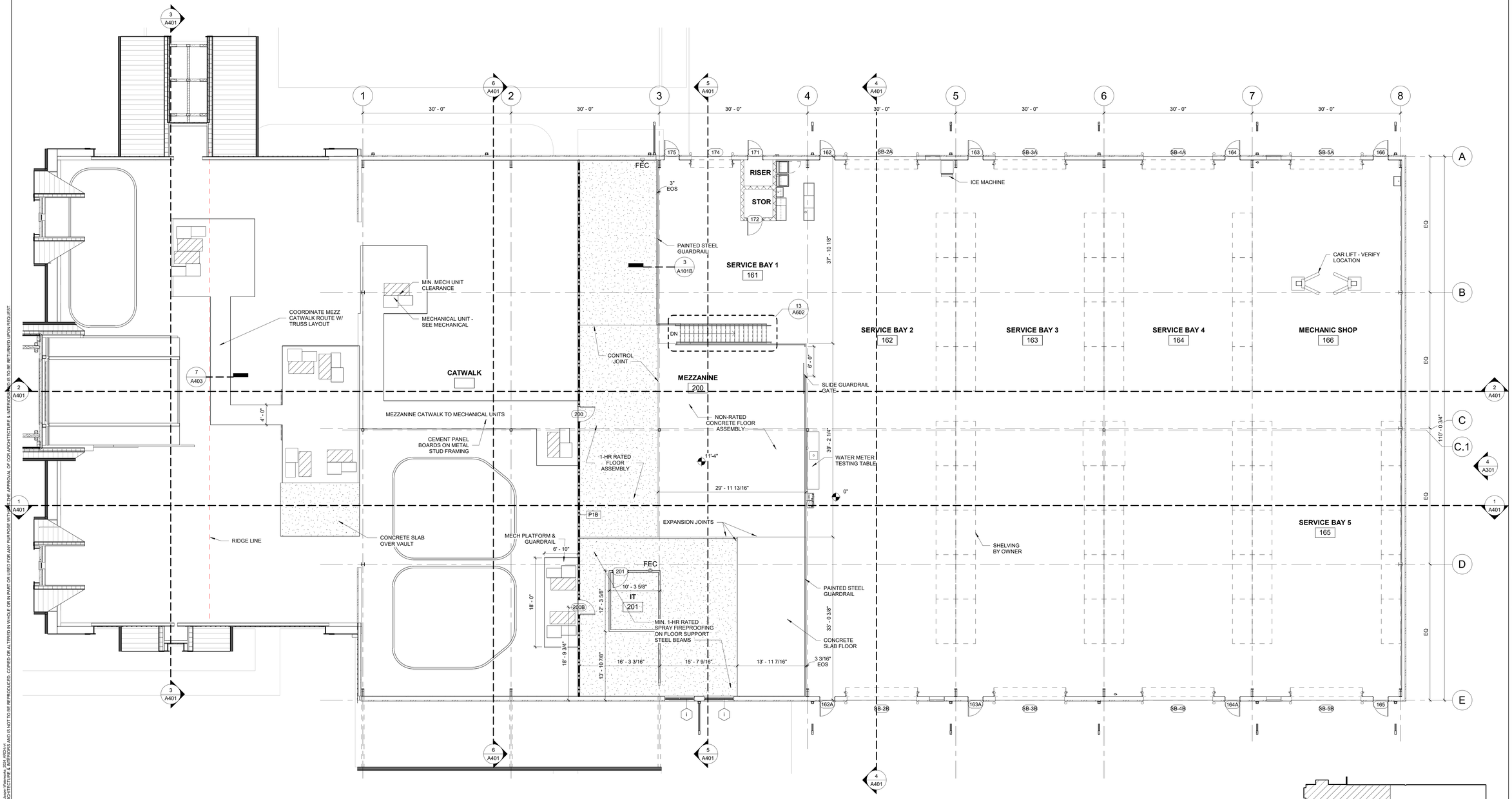
4 1-HR RATED FLOOR ASSEMBLY
1" = 1'-0"



3 MEZZ GUARDRAIL SECTION
1/2" = 1'-0"

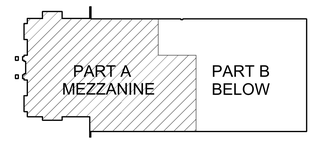


1 MEZZ GUARDRAIL ELEVATION
1/2" = 1'-0"



PROJECT NORTH TRUE NORTH

2 MEZZANINE FLOOR PLAN
1/8" = 1'-0"



KEY PLAN

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STATE OF ALABAMA
TAMMY DANIELS COHEN
REGISTRATION NO. 4168
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BIRMINGHAM ALABAMA
REGISTERED ARCHITECT

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

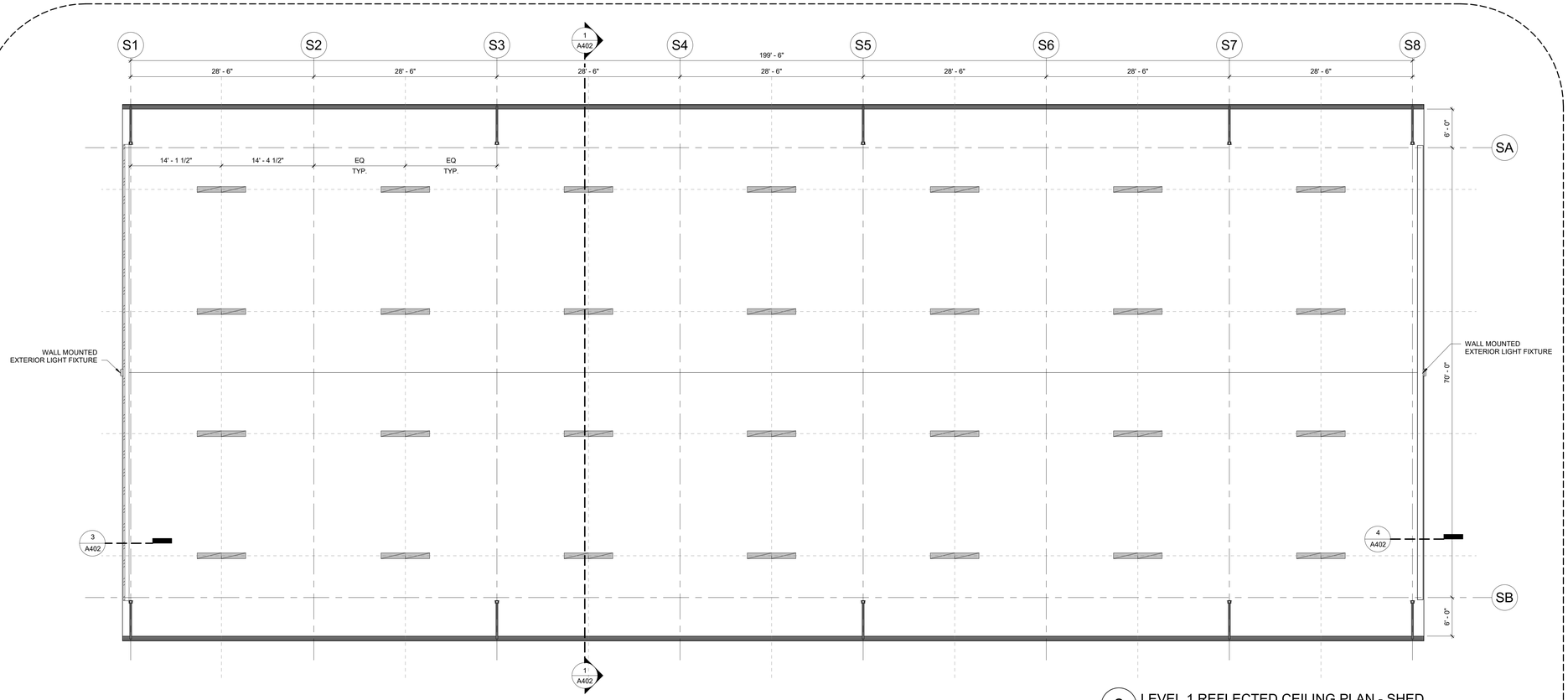
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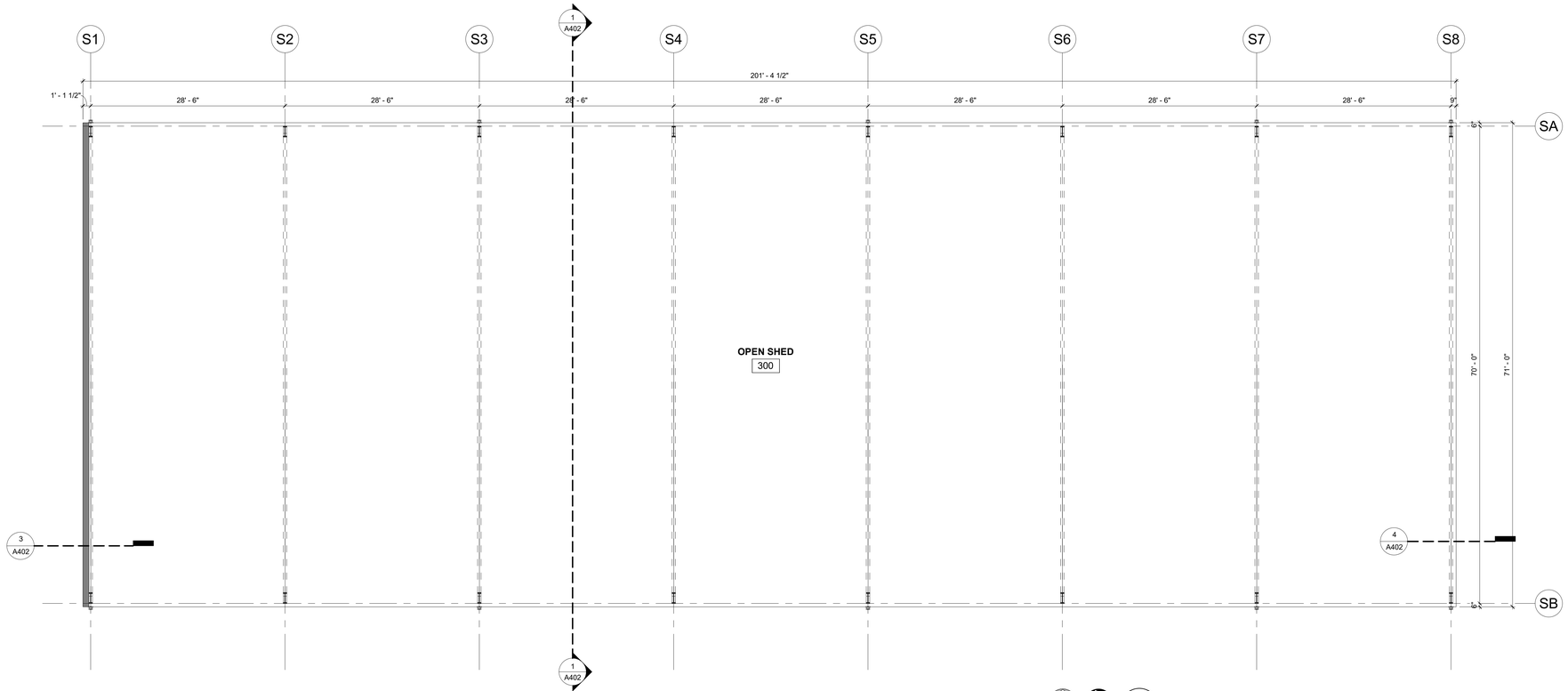
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LEVEL 1 FLOOR PLAN - PART B & MEZZANINE

SHEET NUMBER:
A101B



2 LEVEL 1 REFLECTED CEILING PLAN - SHED
1/8" = 1'-0"



1 LEVEL 1 FLOOR PLAN - SHED
1/8" = 1'-0"

ALTERNATE #1

STATE OF ALABAMA
TAMMY DANIELS COHEN
REGISTRATION NO. 4168
ARCHITECT
BIRMINGHAM ALABAMA
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JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

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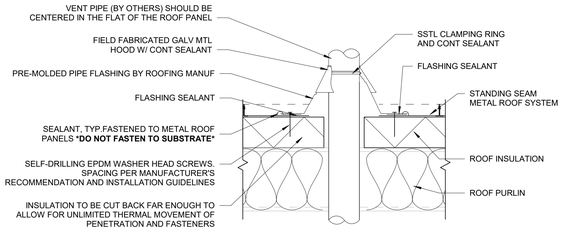
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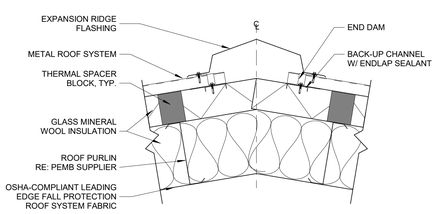
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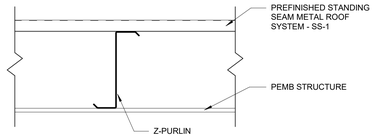
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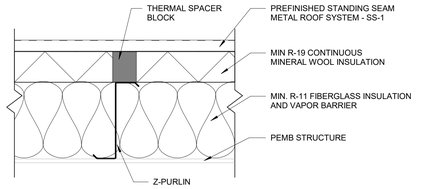
7 PEMB ROOF PIPE PENETRATION
1 1/2" = 1'-0"



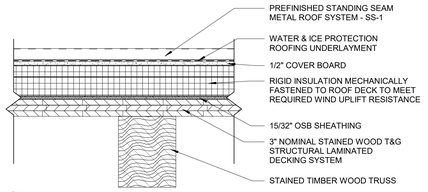
6 PEMB ROOF RIDGE SECTION DETAIL
1 1/2" = 1'-0"



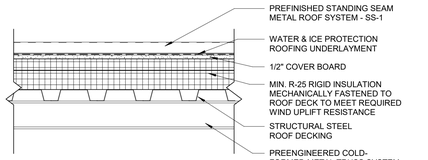
5 ROOF TYPE 3 - SHED STANDING SEAM ROOFING
1 1/2" = 1'-0"



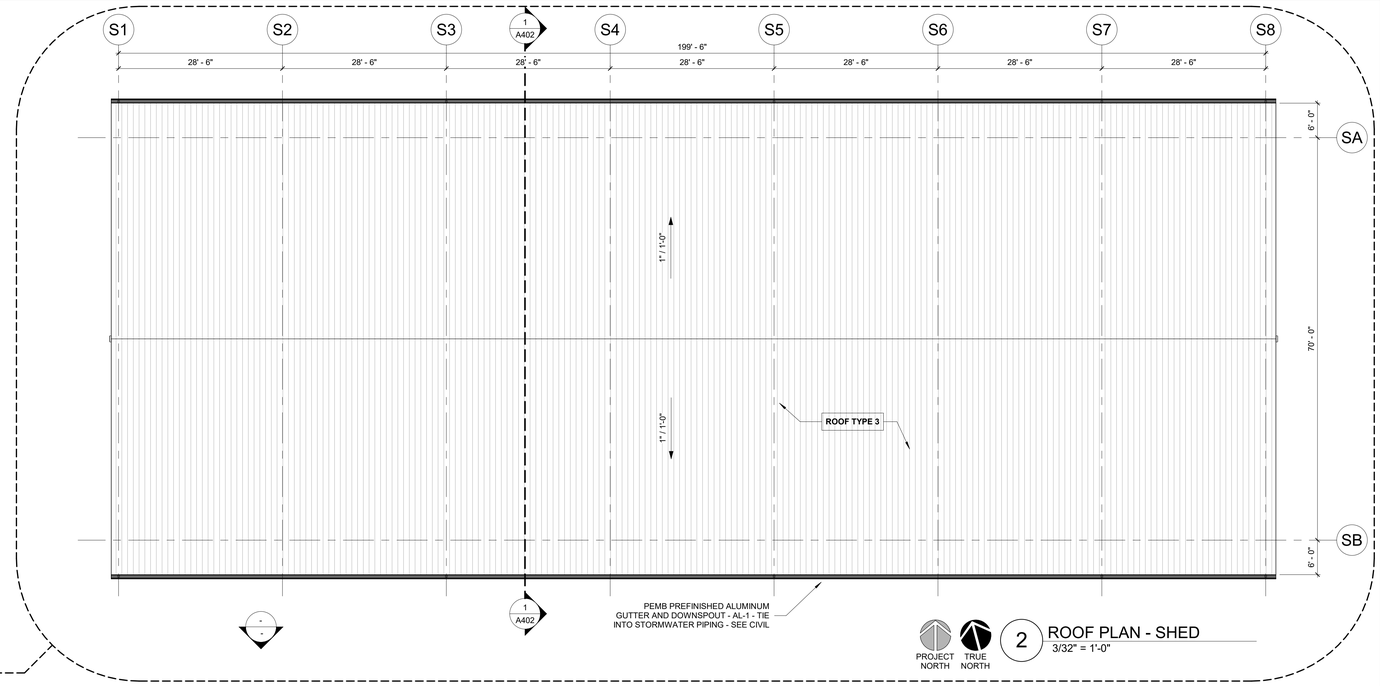
4 ROOF TYPE 2 - PEMB STANDING SEAM ROOFING
1 1/2" = 1'-0"



8 ROOF TYPE 1A - EXTERIOR ENTRY
1 1/2" = 1'-0"

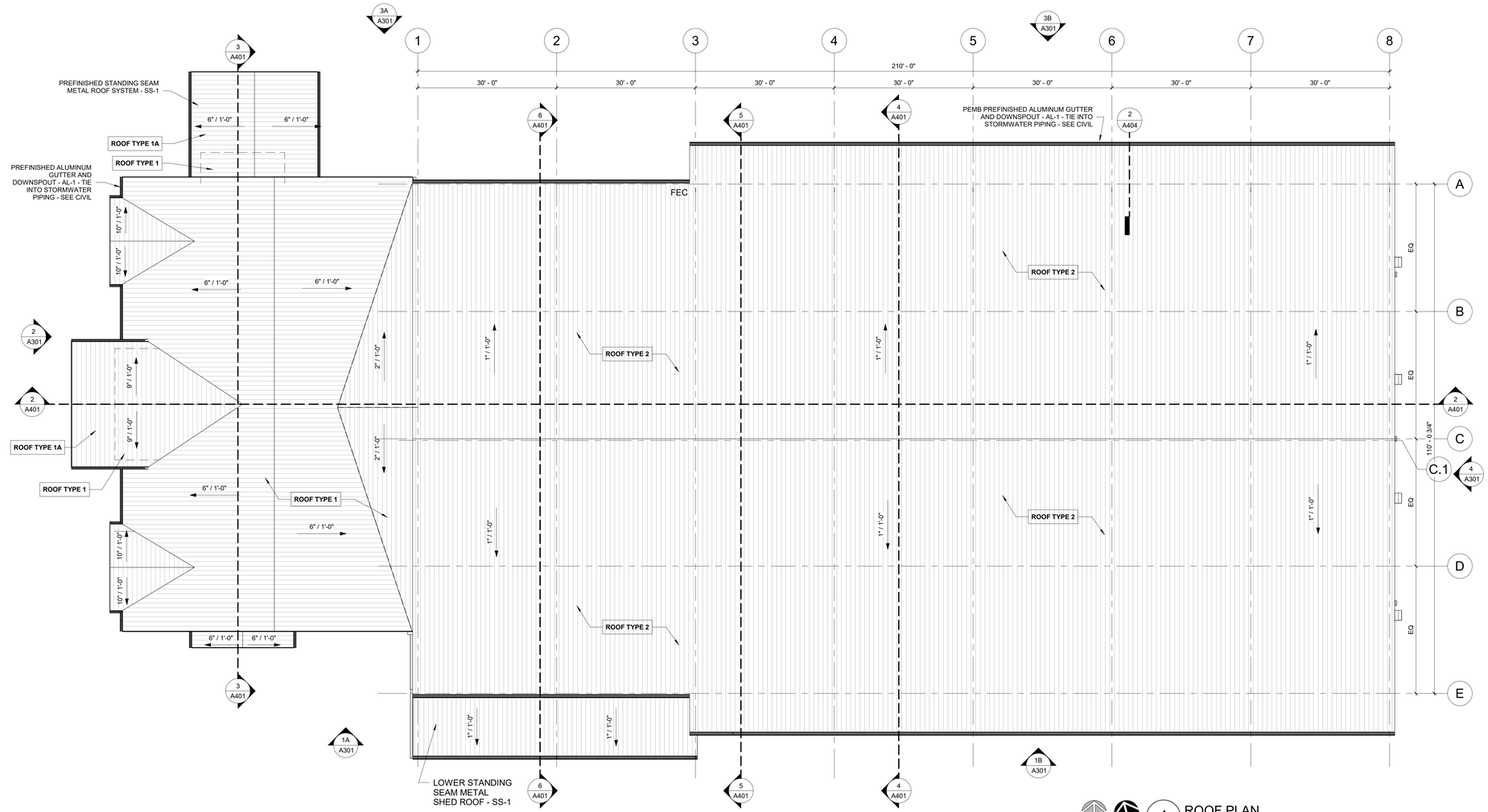


3 ROOF TYPE 1 - OFFICE STANDING SEAM
1 1/2" = 1'-0"



2 ROOF PLAN - SHED
3/32" = 1'-0"

ALTERNATE #1



1 ROOF PLAN
3/32" = 1'-0"

STATE OF ALABAMA
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JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
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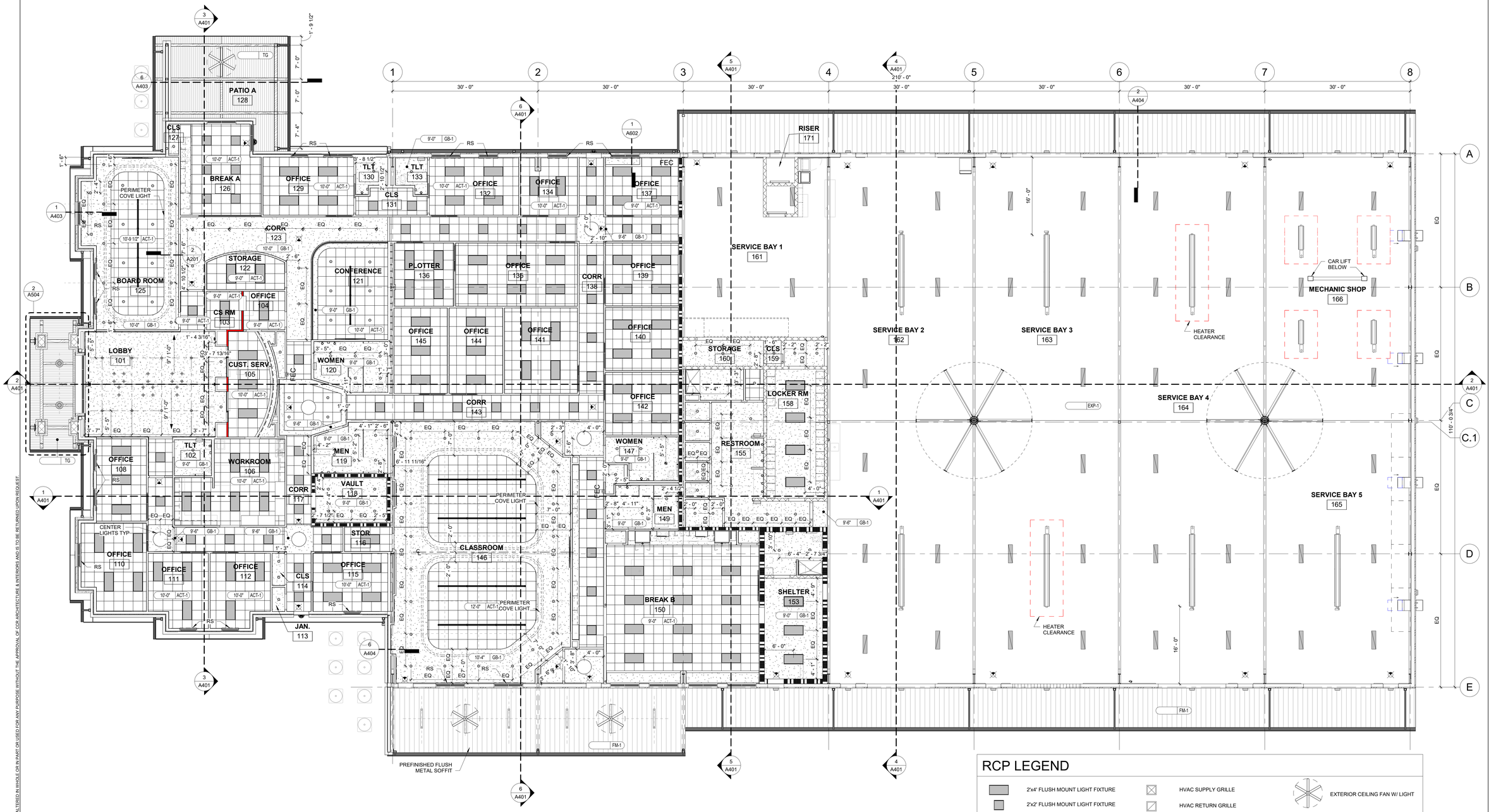
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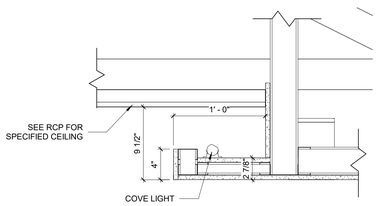
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PROJECT NORTH TRUE NORTH

1 LEVEL 1 REFLECTED CEILING PLAN
1/8" = 1'-0"



2 CEILING COVE LIGHT SECTION DETAIL
1 1/2" = 1'-0"

RCP LEGEND

- 2'x4' FLUSH MOUNT LIGHT FIXTURE
- 2'x2' FLUSH MOUNT LIGHT FIXTURE
- 4' LINEAR STRIP LIGHT FIXTURE
- 4' LINEAR PENDANT LIGHT FIXTURE
- 4' WALL-MOUNTED LINEAR STRIP LIGHT FIXTURE
- EXTERIOR PENDANT LIGHT FIXTURE
- UNDER CABINET LIGHT FIXTURE (ALL UPPER CABINETS TO RECEIVE LIGHTING)
- RESTROOM WALL SCONCE
- RECESSED DOWNLIGHT
- HIGH BAY LED FIXTURE
- WALL MOUNTED SCONCE
- INTERIOR CEILING MOUNTED PENDANT
- HVAC SUPPLY GRILLE
- HVAC RETURN GRILLE
- EXHAUST FAN
- RADIANT HEATER
- HVLS CEILING FAN W/ LIGHT
- EXTERIOR CEILING FAN W/ LIGHT
- EXTERIOR WALL SCONCE
- EXTERIOR WALL FIXTURE
- EXTERIOR WALL PACK
- MANUAL ROLLER SHADE (RS)

ACT-1 2'X2' ACOUSTICAL PANEL CEILING
GB-1 GYPSUM BOARD CEILING - PAINT PER FINISH SCHEDULE
EXP-1 EXPOSED STRUCTURE - NO CEILING
FM-1 PREFINISHED FLUSH METAL SOFFIT
TG STAINED WOOD T&G STRUCTURAL LAMINATED DECKING SYSTEM

NOTES:
1. UNLESS NOTED OTHERWISE, ALL SUSPENDED CEILING GRIDS SHALL BE CENTERED IN ALL SPACES.
2. UNLESS NOTED OTHERWISE, ALL DEVICES INCLUDING, BUT NOT LIMITED TO, LIGHTS, SPEAKERS, MECHANICAL GRILLES, AND SWITCHES SHALL BE CENTERED WITH IN THE CEILING TILE WHERE INDICATED.
3. SEE ENGINEERING DRAWINGS FOR MECHANICAL AND ELECTRICAL DEVICES THAT ARE WITHIN THE SCOPE OF THE PROJECT BUT WHICH ARE NOT DEPICTED ON THESE DRAWINGS.

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STATE OF ALABAMA
TAMMY DANIELS COHEN
REGISTRATION NO. 4168
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JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
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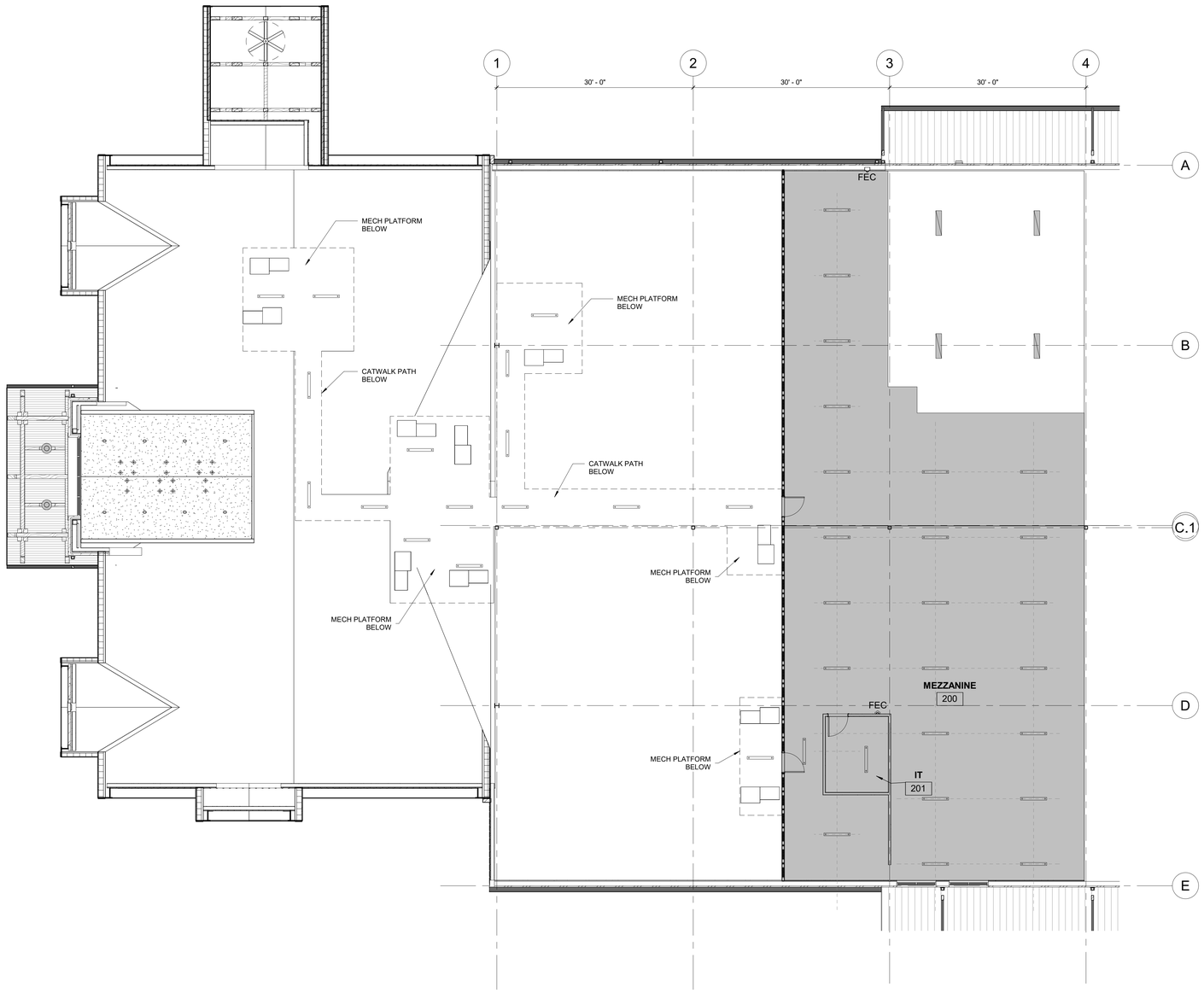
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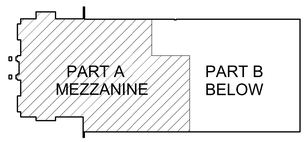
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SHEET TITLE:
LEVEL 1 REFLECTED CEILING PLAN - OVERALL

SHEET NUMBER:
A201



2 MEZZANINE REFLECTED CEILING PLAN
1/8" = 1'-0"



KEY PLAN

RCP LEGEND

- 2'x4' FLUSH MOUNT LIGHT FIXTURE
- 2'x2' FLUSH MOUNT LIGHT FIXTURE
- 4' LINEAR STRIP LIGHT FIXTURE
- 4' LINEAR PENDANT LIGHT FIXTURE
- 4' WALL-MOUNTED LINEAR STRIP LIGHT FIXTURE
- EXTERIOR PENDANT LIGHT FIXTURE
- UNDER CABINET LIGHT FIXTURE (ALL UPPER CABINETS TO RECEIVE LIGHTING)
- RESTROOM WALL SCONCE
- RECESSED DOWNLIGHT
- HIGH BAY LED FIXTURE
- WALL MOUNTED SCONCE
- INTERIOR CEILING MOUNTED PENDANT
- HVAC SUPPLY GRILLE
- HVAC RETURN GRILLE
- EXHAUST FAN
- RADIANT HEATER
- HVLS CEILING FAN W/ LIGHT
- EXTERIOR CEILING FAN W/ LIGHT
- EXTERIOR WALL SCONCE
- EXTERIOR WALL FIXTURE
- EXTERIOR WALL PACK
- MANUAL ROLLER SHADE (RS)

- ACT-1 — 2'X2' ACOUSTICAL PANEL CEILING
- GB-1 — GYPSUM BOARD CEILING - PAINT PER FINISH SCHEDULE
- EXP-1 — EXPOSED STRUCTURE - NO CEILING
- FM-1 — PREFINISHED FLUSH METAL SOFFIT
- TG — STAINED WOOD T&G STRUCTURAL LAMINATED DECKING SYSTEM

NOTES:
1. UNLESS NOTED OTHERWISE, ALL SUSPENDED CEILING GRIDS SHALL BE CENTERED IN ALL SPACES.
2. UNLESS NOTED OTHERWISE, ALL DEVICES INCLUDING, BUT NOT LIMITED TO, LIGHTS, SPEAKERS, MECHANICAL GRILLES, AND SWITCHES SHALL BE CENTERED WITH IN THE CEILING TILE WHERE INDICATED.
3. SEE ENGINEERING DRAWINGS FOR MECHANICAL AND ELECTRICAL DEVICES THAT ARE WITHIN THE SCOPE OF THE PROJECT BUT WHICH ARE NOT DEPICTED ON THESE DRAWINGS.

STATE OF ALABAMA
TAMMY DANIELS COHEN
REGISTRATION NO. 4168
ARCHITECT
BIRMINGHAM ALABAMA
REGISTERED ARCHITECT

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
10/28/26

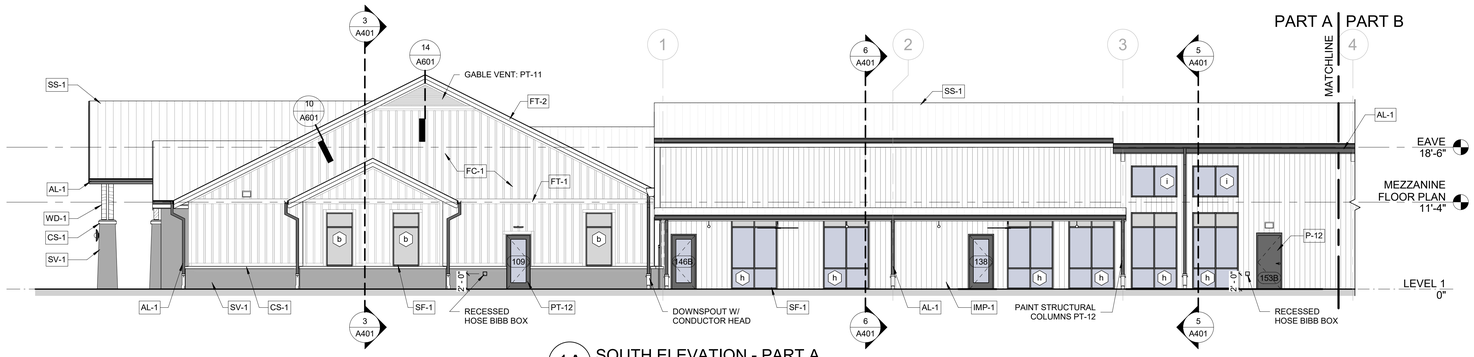
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#	DESCRIPTION	DATE

SHEET TITLE:
LEVEL 1 REFLECTED CEILING PLAN - MEZZANINE

SHEET NUMBER:
A201A

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1A SOUTH ELEVATION - PART A
1/8" = 1'-0"

EXTERIOR MATERIALS LEGEND

MASONRY

SV-1	STACKED STONE VENEER - ALABAMA WHOLESALE STONE: #203 DOLLY RIDGE MIX
CS-1	CAST-STONE: TO MATCH READING ROCK ROCKCAST BUFFSTONE

METAL

IMP-1	INSULATED WALL PANEL: METLSPAN - CF FLUTE WALL PANEL; COLOR: REGAL GRAY
SS-1	STANDING SEAM METAL ROOF: BERRIDGE TEE-PANEL; COLOR: CHARCOAL GRAY
AL-1	MISCELLANEOUS PREFINISHED ALUMINUM: TO MATCH PT-12

FIBER CEMENT

FC-1	FIBER CEMENT BOARD & BATTEN: PAINTED PT-10
FT-1	FIBER CEMENT TRIM: PAINTED PT-11
FT-2	FIBER CEMENT TRIM: PAINTED PT-12

WOOD

WD-1	TIMBER TRUSS & COLUMNS: STAINED PT-13

STOREFRONT

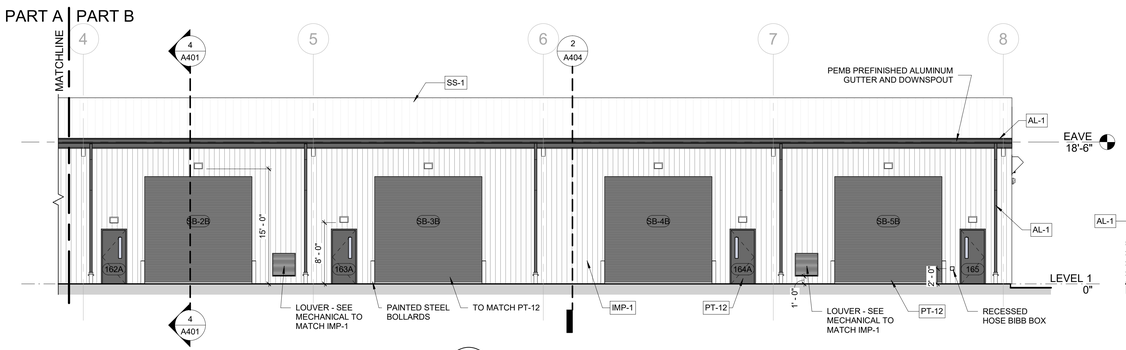
SF-1	EXTERIOR ALUMINUM STOREFRONT SYSTEM - BLACK ANODIZED

NOTES:

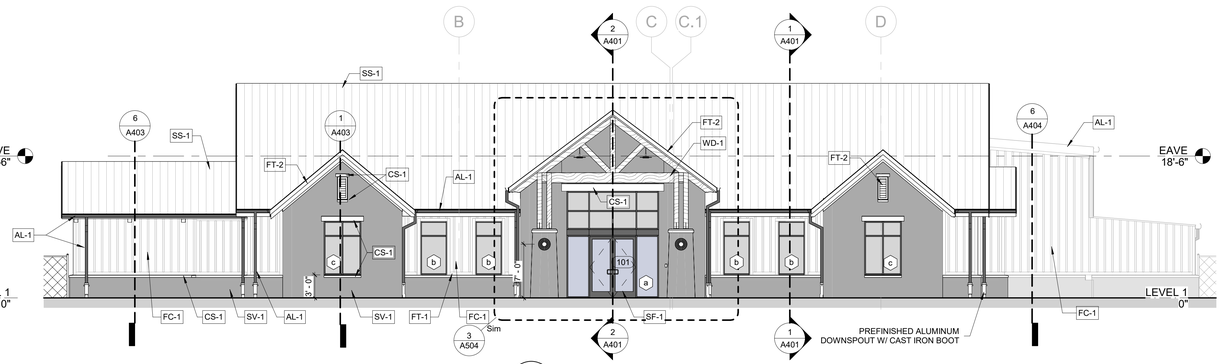
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PAINT

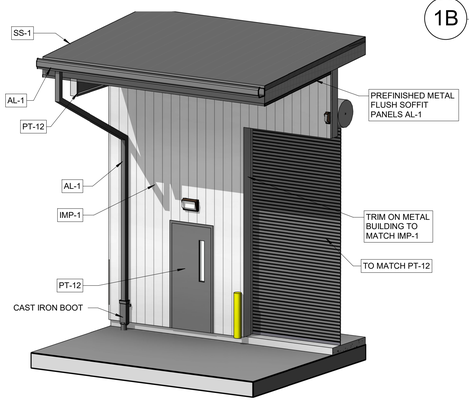
PT-10	MANUFACTURER: SHERWIN WILLIAMS COLOR: SW 6187 ROSEMARY LOCATION: BOARD AND BATTEN
PT-11	MANUFACTURER: SHERWIN WILLIAMS COLOR: SW 7065 ARGOS LOCATION: TRIM
PT-12	MANUFACTURER: SHERWIN WILLIAMS COLOR: SW 7069 IRON ORE LOCATION: FASICA & SOFFIT
PT-13	MANUFACTURER: BENJAMIN MOORE EXTERIOR WOOD STAIN COLOR: 1232 FRESH BREW - SEMI-TRANSPARENT LOCATION: TIMBER TRUSS, DECKING, AND WOOD COLUMNS



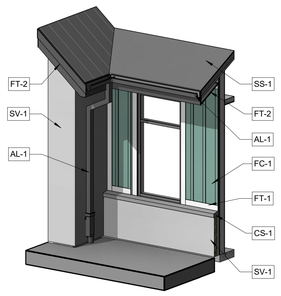
1B SOUTH ELEVATION - PART B
1/8" = 1'-0"



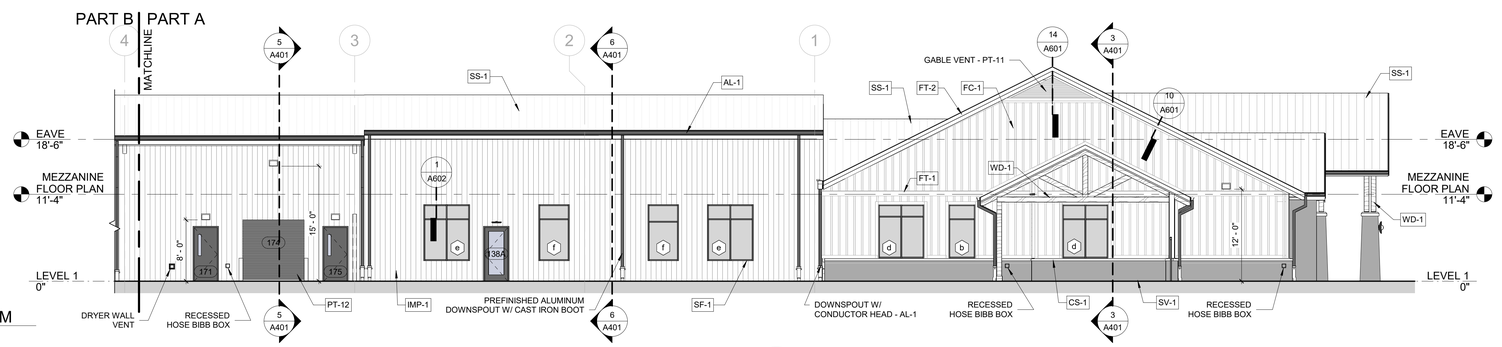
2 WEST ELEVATION
1/8" = 1'-0"



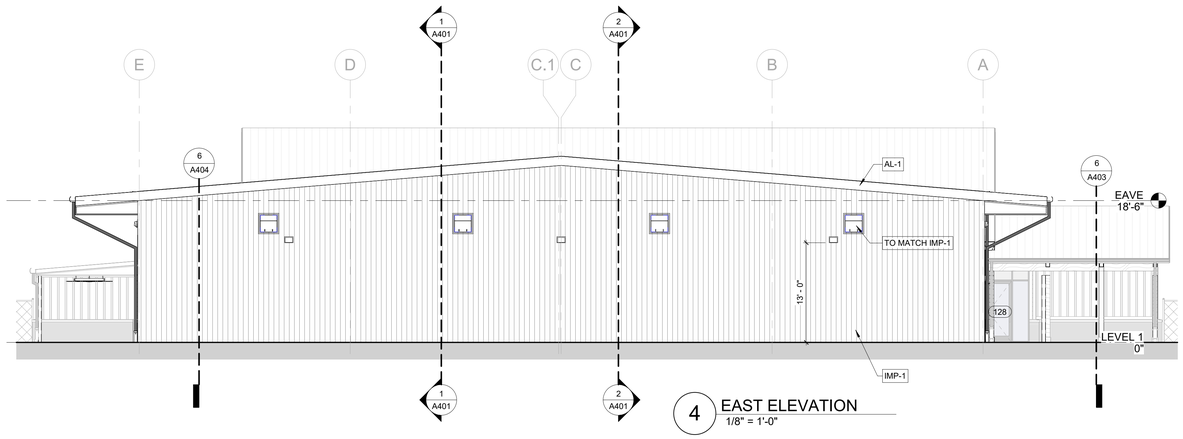
3 PEMB EXTERIOR MATERIAL DIAGRAM



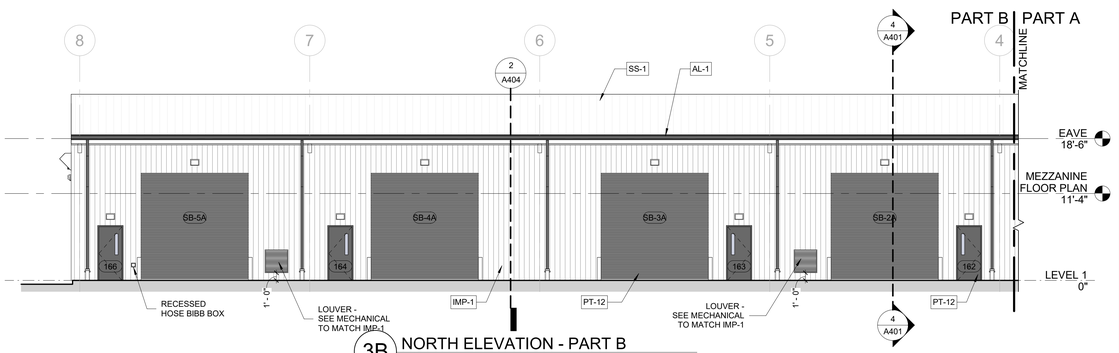
1 OFFICE EXTERIOR MATERIAL DIAGRAM



3A NORTH ELEVATION - PART A
1/8" = 1'-0"



4 EAST ELEVATION
1/8" = 1'-0"



3B NORTH ELEVATION - PART B
1/8" = 1'-0"

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REGISTERED ARCHITECT

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

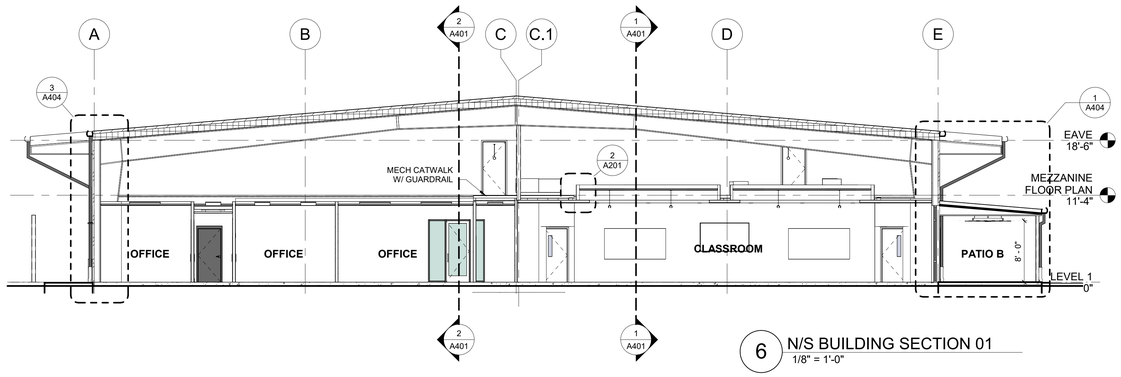
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10/28/26

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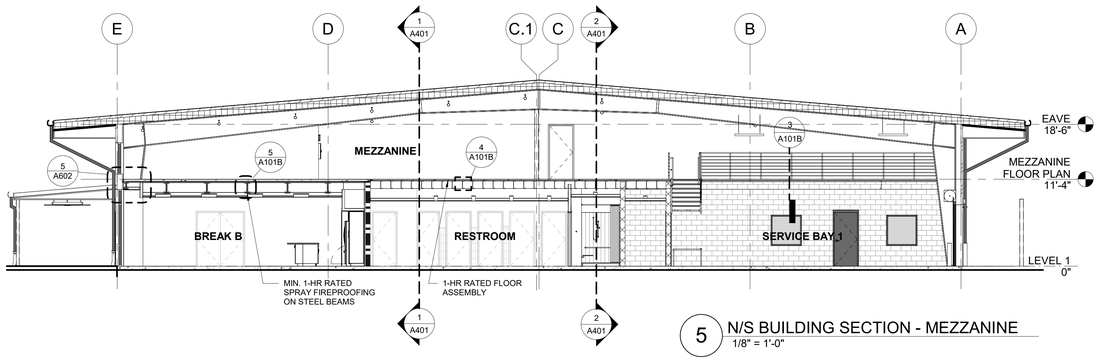
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SHEET TITLE:
EXTERIOR ELEVATIONS

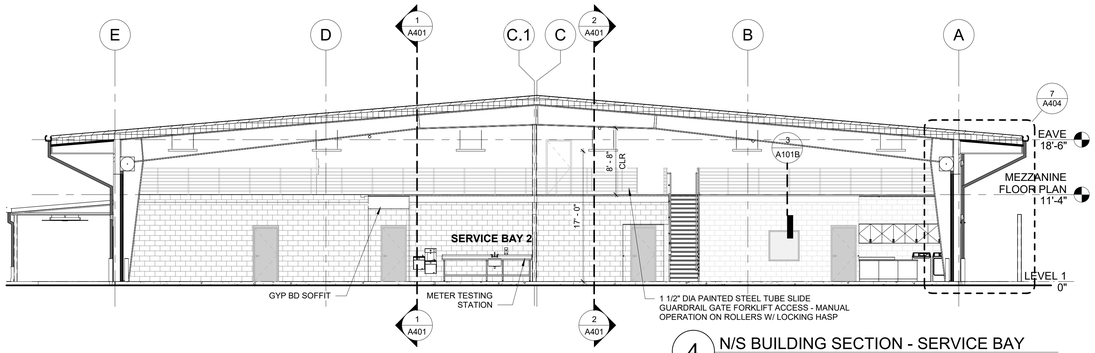
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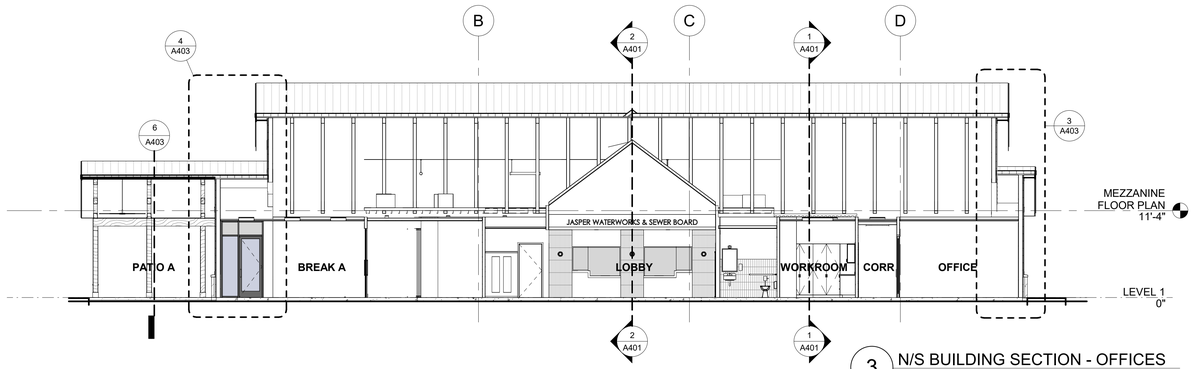
6 N/S BUILDING SECTION 01
1/8" = 1'-0"



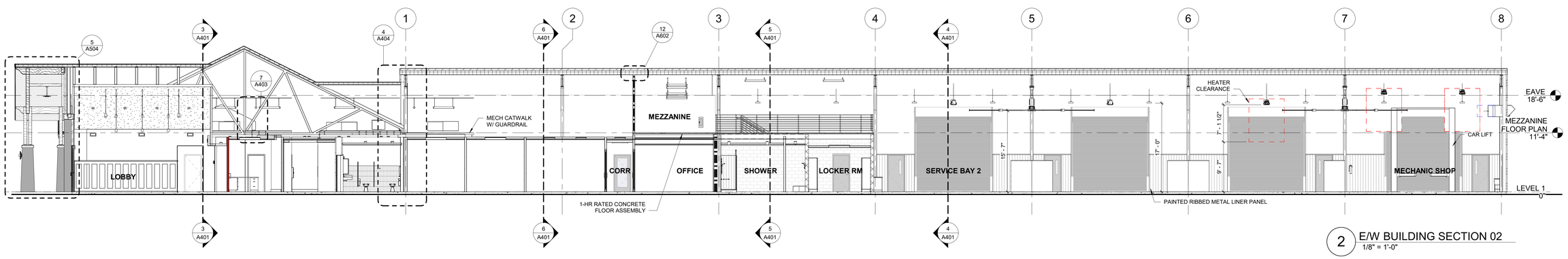
5 N/S BUILDING SECTION - MEZZANINE
1/8" = 1'-0"



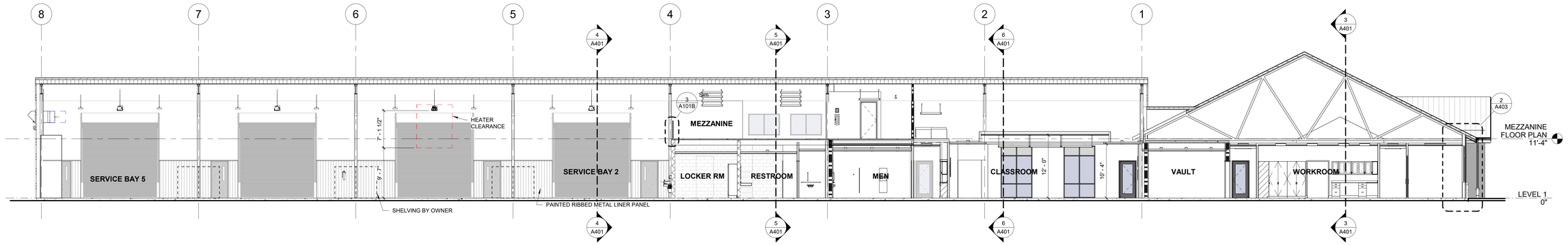
4 N/S BUILDING SECTION - SERVICE BAY
1/8" = 1'-0"



3 N/S BUILDING SECTION - OFFICES
1/8" = 1'-0"



2 E/W BUILDING SECTION 02
1/8" = 1'-0"



1 E/W BUILDING SECTION 01
1/8" = 1'-0"

TAMMY DANIELS COHEN
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ARCHITECT
BIRMINGHAM ALABAMA
STATE OF ALABAMA
REGISTERED ARCHITECT

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

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10/28/26

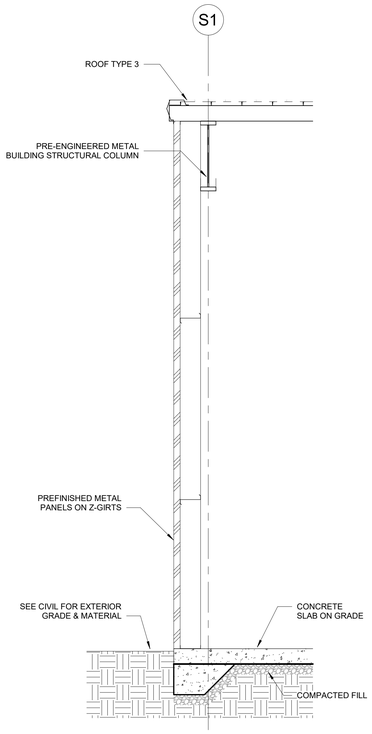
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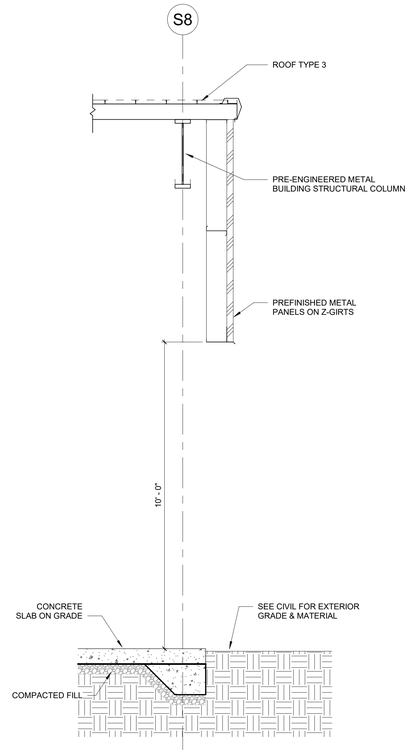
SHEET TITLE:
BUILDING SECTIONS

SHEET NUMBER:
A401

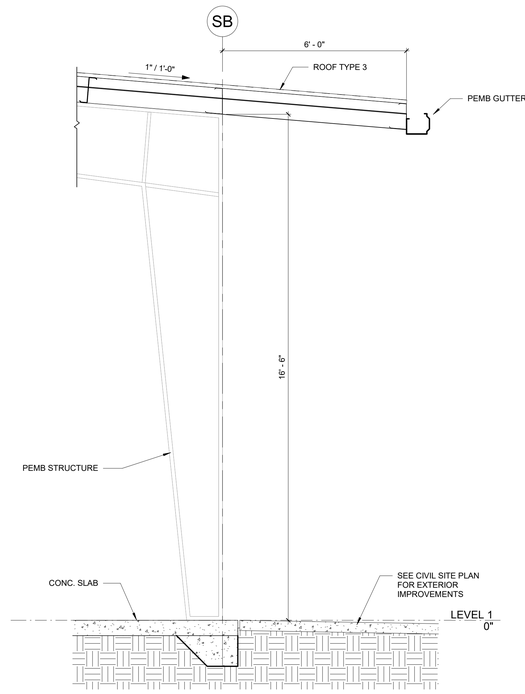
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Autodesk Docs://23031-A Jasper WW - New Build/23031-A Jasper WW - New Build.rvt



3 SHED WALL SECTION 01
1/2" = 1'-0"

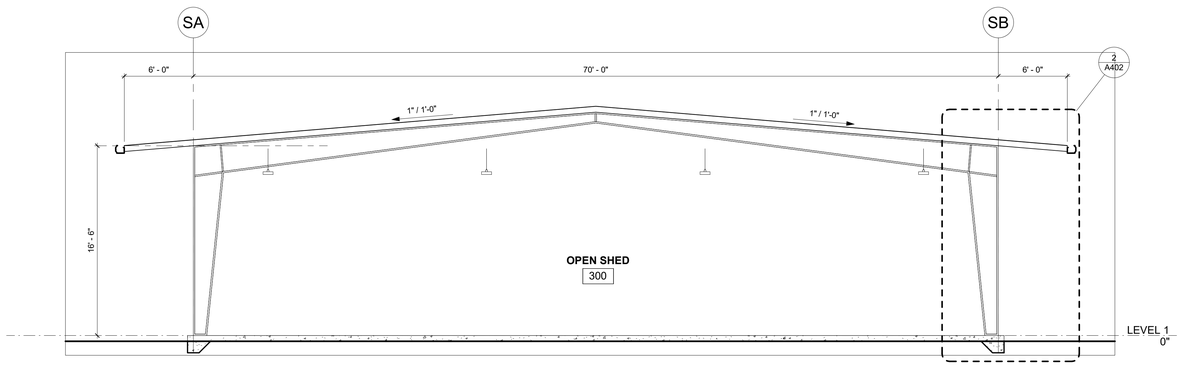


4 SHED WALL SECTION 02
1/2" = 1'-0"



2 SHED WALL SECTION
1/2" = 1'-0"

ALTERNATE #1



1 SHED BUILDING SECTION
3/16" = 1'-0"

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STATE OF ALABAMA
TAMMY DANIELS COHEN
REGISTRATION NO. 4168
ARCHITECT
BIRMINGHAM ALABAMA
REGISTERED ARCHITECT

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

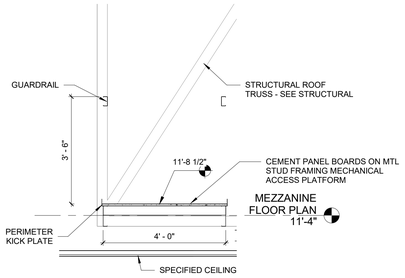
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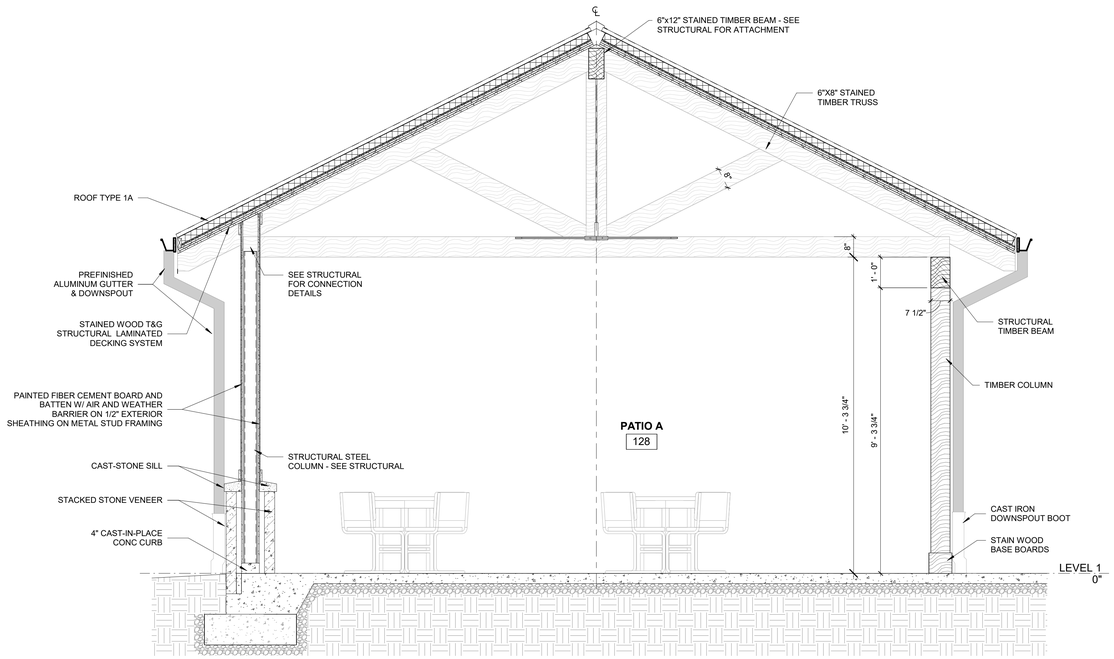
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BUILDING & WALL SECTIONS - SHED

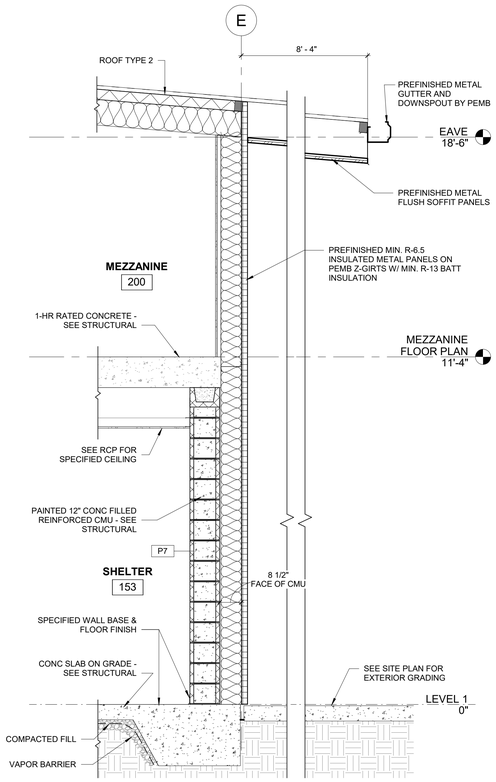
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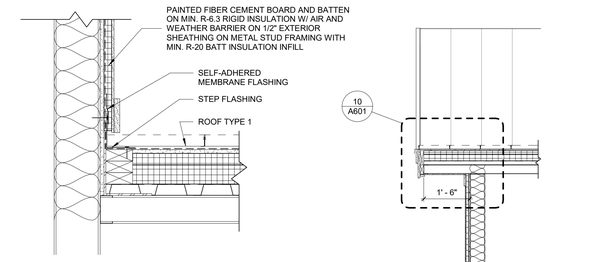
7 MECH MEZZ CATWALK SECTION
1/2" = 1'-0"



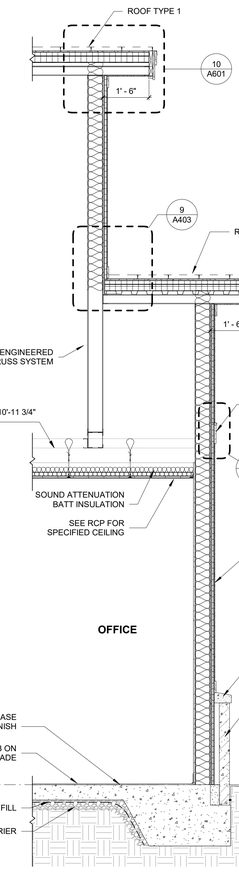
6 PATIO WALL SECTION
1/2" = 1'-0"



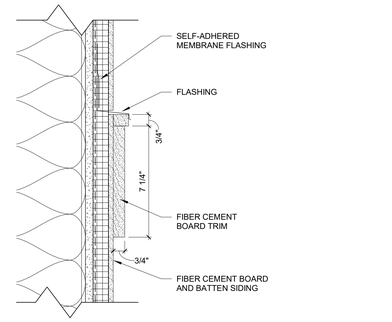
5 STORM SHELTER WALL SECTION
1/2" = 1'-0"



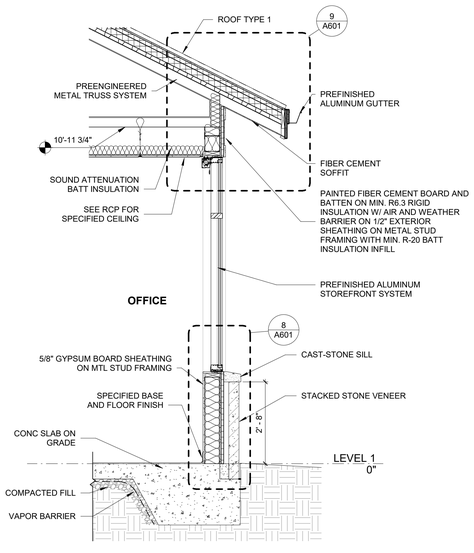
9 WALL/ROOF SECTION DETAIL
1 1/2" = 1'-0"



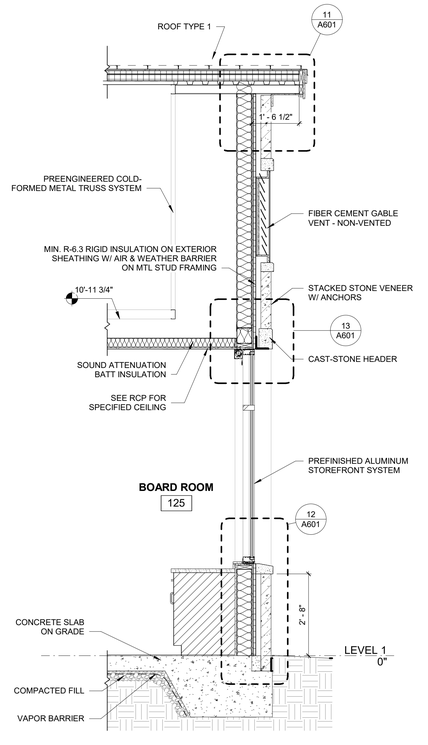
3 OFFICE SOUTH WALL SECTION
1/2" = 1'-0"



8 TRIM BOARD SECTION DETAIL
3" = 1'-0"



2 OFFICE WALL SECTION 02
1/2" = 1'-0"



1 OFFICE STONE WALL SECTION
1/2" = 1'-0"

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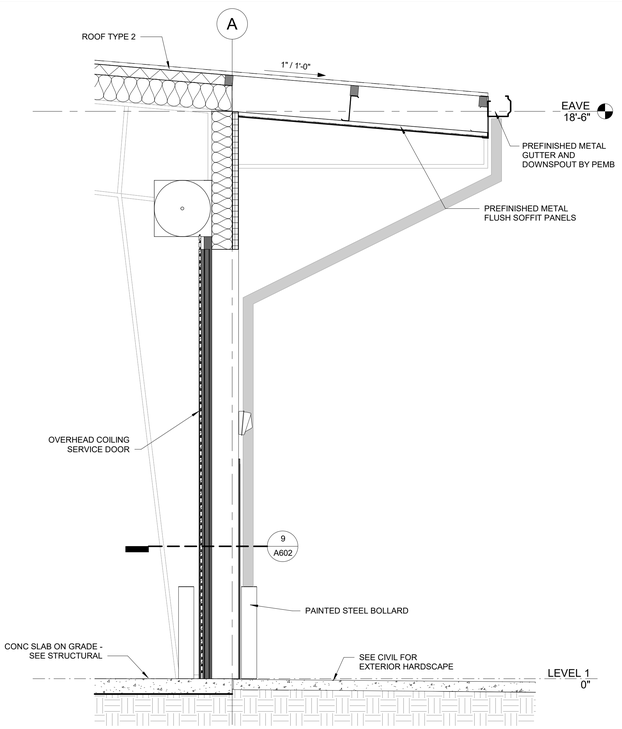
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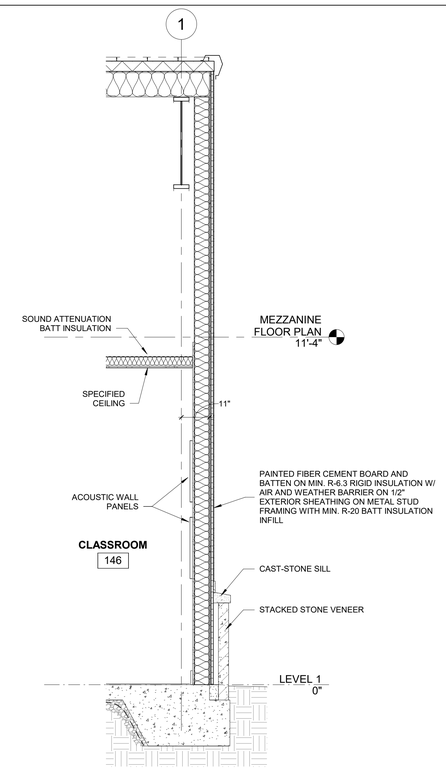
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OFFICE WALL SECTIONS

SHEET NUMBER:
A403

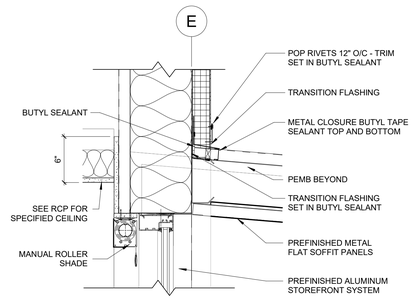
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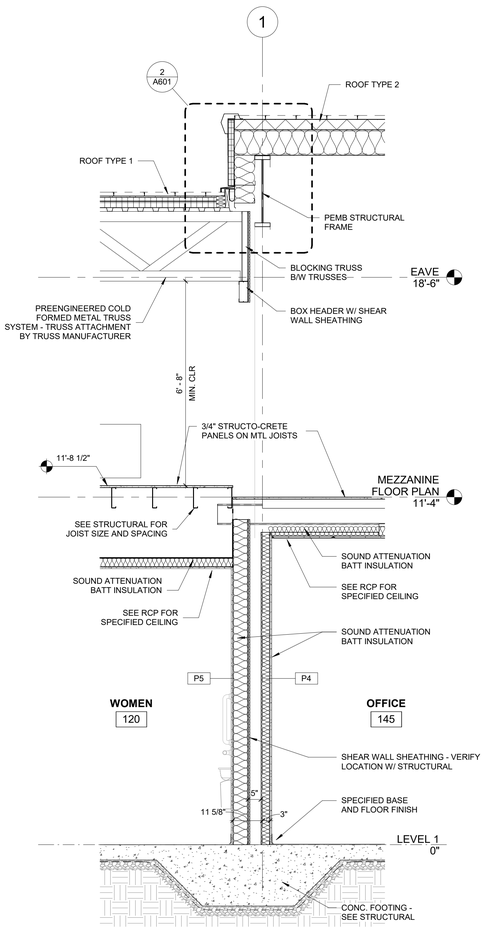
7 SERVICE BAY SERVICE DOOR SECTION
1/2" = 1'-0"



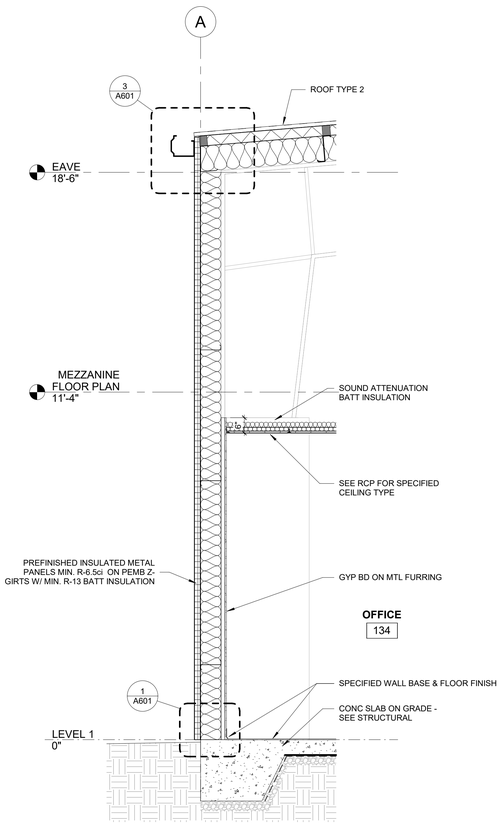
6 CLASSROOM WALL SECTION
1/2" = 1'-0"



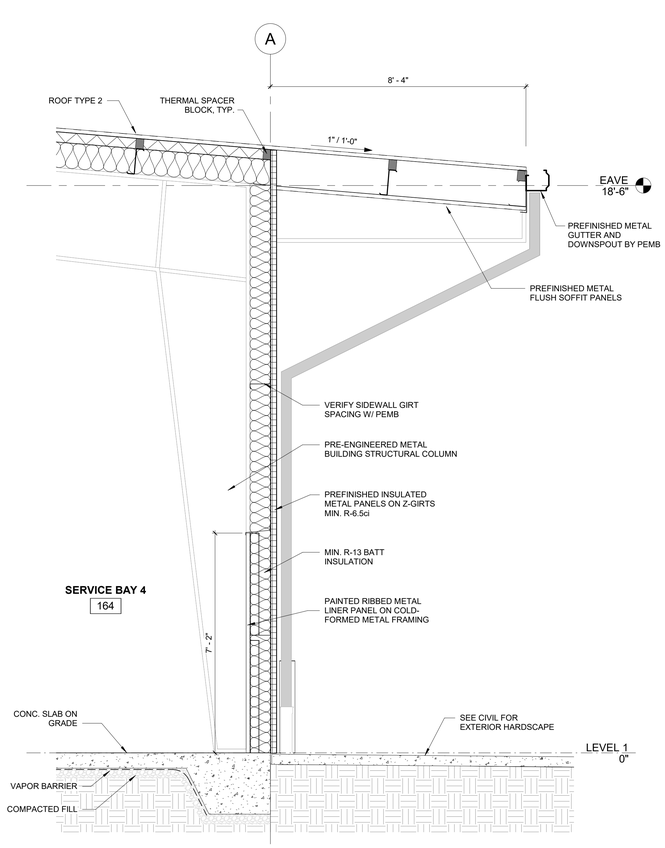
5 PATIO CANOPY WALL SECTION
1 1/2" = 1'-0"



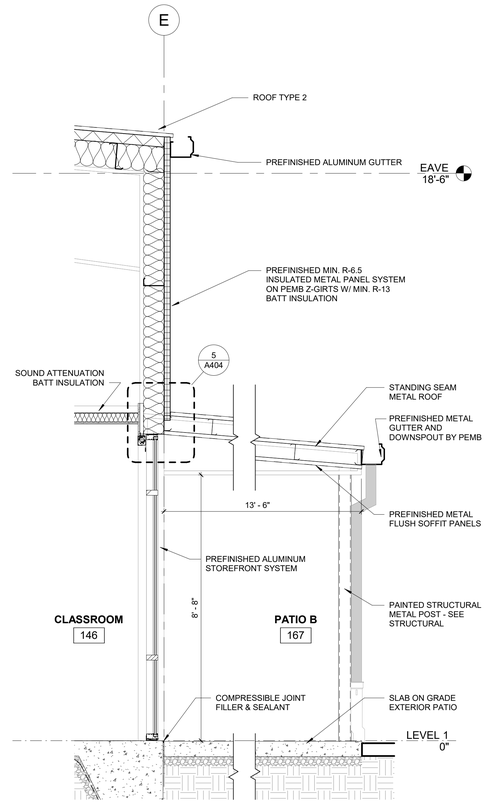
4 PEMB WALL SECTION @ OFFICE
1/2" = 1'-0"



3 IMP WALL SECTION
1/2" = 1'-0"



2 IMP WALL SECTION @ ROOF EXTENSION
1/2" = 1'-0"



1 PEMB PATIO WALL SECTION
1/2" = 1'-0"

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#	DESCRIPTION	DATE

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PEMB WALL SECTIONS

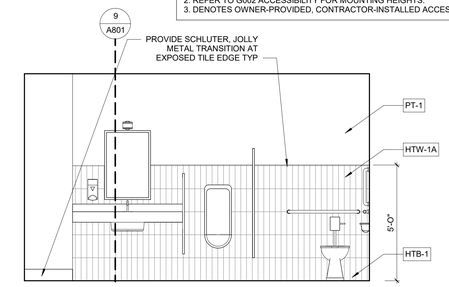
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PLUMBING & ACCESSORY LEGEND

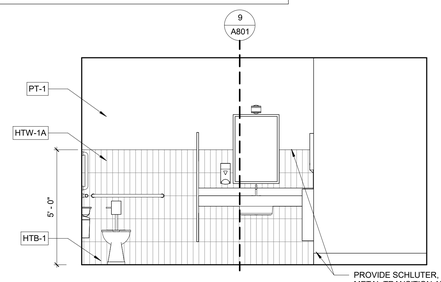
GENERAL NOTE: PLUMBING & ACCESSORY MODELS ARE BASIS OF DESIGN ONLY

A	GRAB BAR 42" : 1-1/4" DIA. STRAIGHT GRAB BAR.	BOBRICK, B-5806 X 42	PROVIDE BLOCKING AS REQUIRED.
B	GRAB BAR 36" : 1-1/4" DIA. STRAIGHT GRAB BAR.	BOBRICK, B-5806 X 36	PROVIDE BLOCKING AS REQUIRED.
C	GRAB BAR 18" : 1-1/4" DIA. STRAIGHT GRAB BAR.	BOBRICK, B-5806 X 18	PROVIDE BLOCKING AS REQUIRED.
D	TOILET PAPER DISPENSER. SURFACE MOUNTED	BOBRICK B-2840	STAINLESS STEEL, SATIN
E	ADA SHOWER SEAT		
F	SANITARY NAPKIN DISPOSAL	BOBRICK B-270	STAINLESS STEEL, SATIN
G	DOUBLE ROBE HOOK	BOBRICK, B-6727	STAINLESS STEEL, SATIN
H	MIRROR	REJUVENATION, 7652095, 24" X 36", POLISHED NICKEL	
J	WALL MOUNTED SOAP DISPENSER	BOBRICK, B-2111	STAINLESS STEEL
K	PAPER TOWEL DISPENSER & TRASH	BOBRICK, B-3942	STAINLESS STEEL
L	BABY CHANGING TABLE	KOALA KB110-SSWM	STAINLESS STEEL
M	MOP & BROOM HOLDER WITH SHELF ABOVE	BOBRICK, B-239	PROVIDE IN JANITOR CLOSET
P	TOILET PARTITIONS	SCRANTON HINEY HIDERS, FLOOR MOUNTED OVERHEAD BRACED, SOLID PLASTIC, COLOR: HAMMERED STAINLESS	
Q	GRAB BAR 48" : 1-1/4" DIA. STRAIGHT GRAB BAR.	BOBRICK, B-5806 X 48	
R	GRAB BAR 12" : 1-1/4" DIA. STRAIGHT GRAB BAR.	BOBRICK, B-5806 X 12	

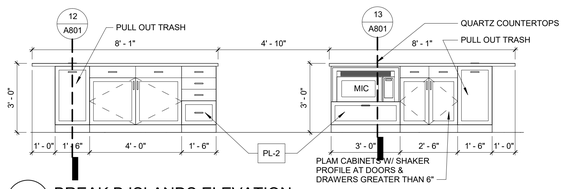
NOTE:
1. PROVIDE 2X WOOD BLOCKING IN WALLS FOR TOILET ACCESSORY ATTACHMENT FRAMING, TYPICAL.
2. REFER TO G002 ACCESSIBILITY FOR MOUNTING HEIGHTS.
3. DENOTES OWNER-PROVIDED, CONTRACTOR-INSTALLED ACCESSORY.



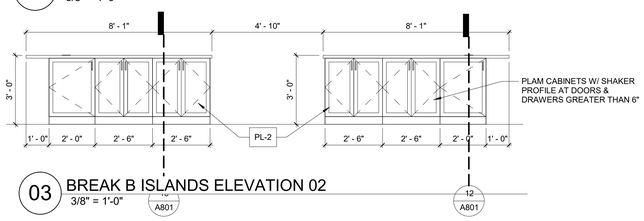
06 MEN 149 - NORTH ELEVATION
3/8" = 1'-0"



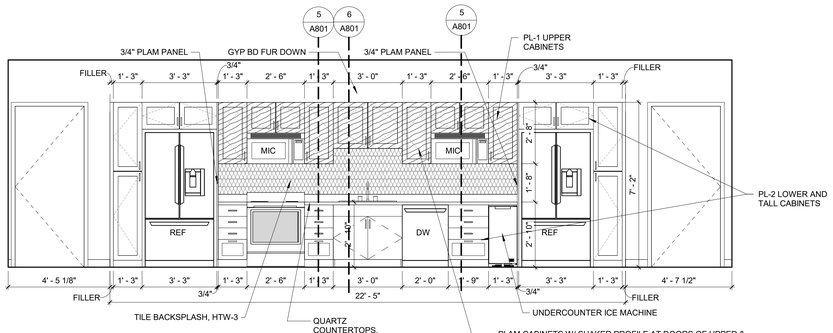
05 WOMEN 147 - SOUTH ELEVATION
3/8" = 1'-0"



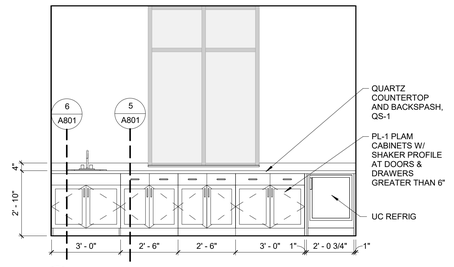
04 BREAK B ISLANDS ELEVATION
3/8" = 1'-0"



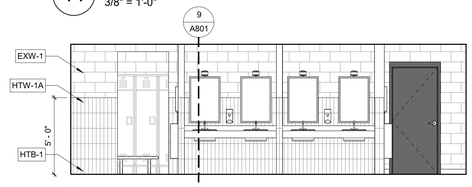
03 BREAK B ISLANDS ELEVATION 02
3/8" = 1'-0"



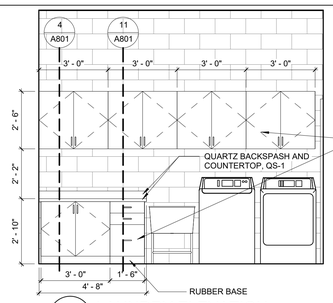
02 BREAK B KITCHEN ELEVATION
3/8" = 1'-0"



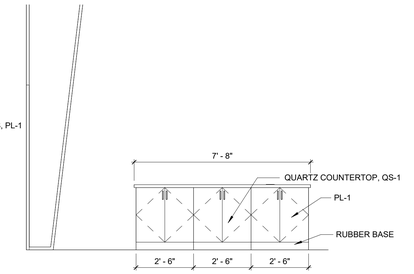
11 BOARD ROOM BAR ELEVATION
3/8" = 1'-0"



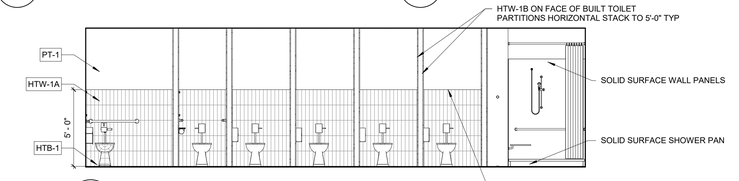
08 RESTROOM EAST INTERIOR ELEVATION
1/4" = 1'-0"



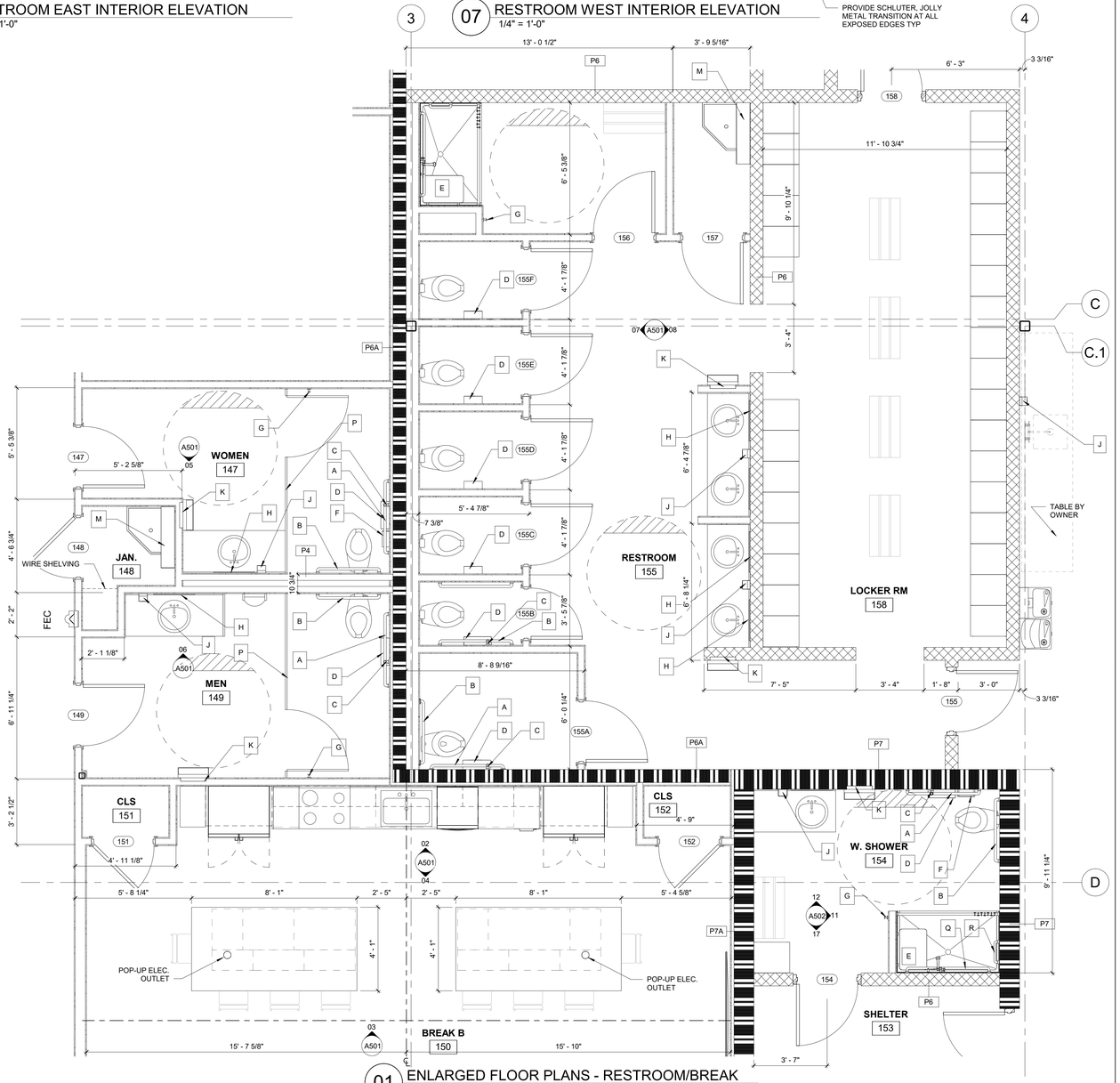
10 LAUNDRY ELEVATION
3/8" = 1'-0"



09 LAUNDRY ELEVATION 02
3/8" = 1'-0"



07 RESTROOM WEST INTERIOR ELEVATION
1/4" = 1'-0"



01 ENLARGED FLOOR PLANS - RESTROOM/BREAK
3/8" = 1'-0"

STATE OF ALABAMA
TAMMY DANIELS COHEN
REGISTRATION NO. 4168
ARCHITECT
BIRMINGHAM ALABAMA
REGISTERED ARCHITECT

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
10/28/26

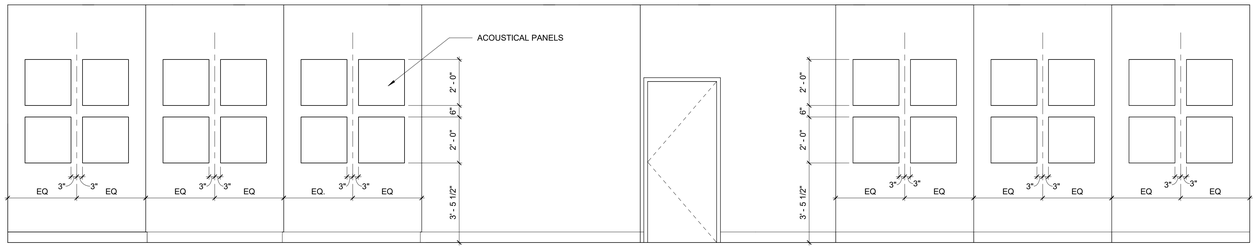
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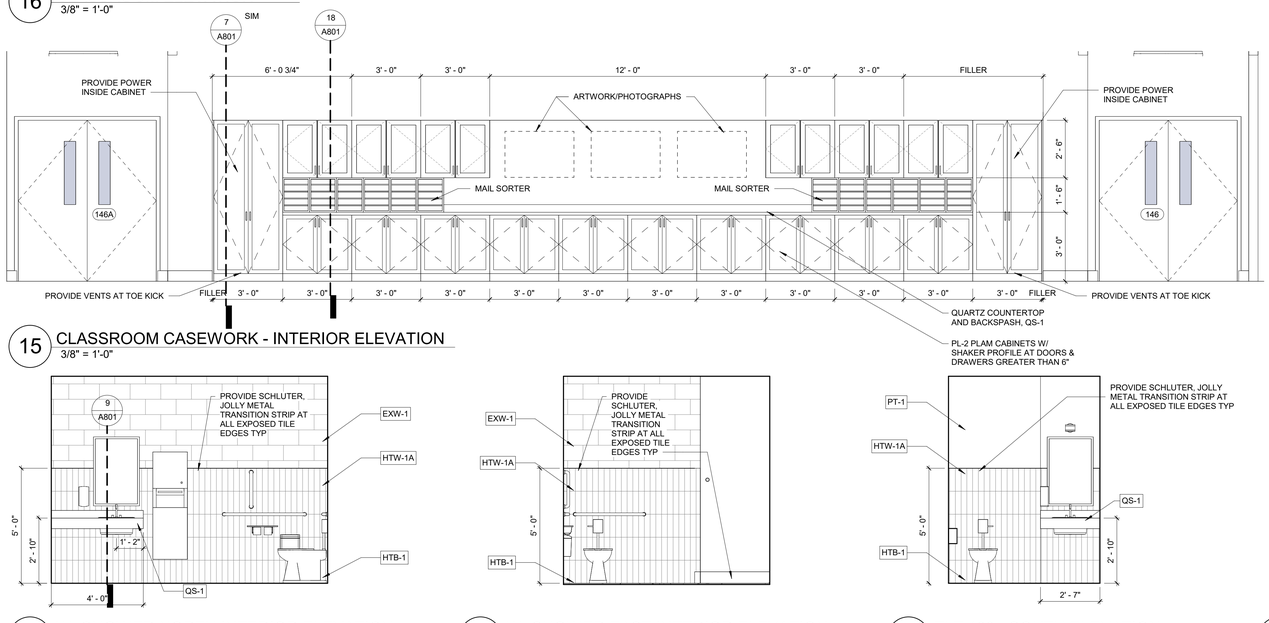
SHEET TITLE:
ENLARGED PLANS AND ELEVATIONS

SHEET NUMBER:
A501

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16 CLASSROOM ELEVATION
3/8" = 1'-0"

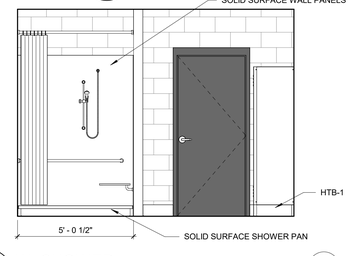


15 CLASSROOM CASEWORK - INTERIOR ELEVATION
3/8" = 1'-0"

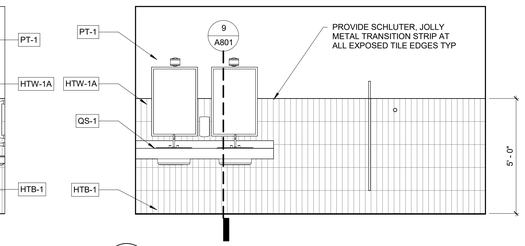
12 W. SHOWER NORTH INTERIOR ELEVATION
3/8" = 1'-0"

11 W. SHOWER EAST INTERIOR ELEVATION
3/8" = 1'-0"

10 TLT 130 - SOUTH ELEVATION
3/8" = 1'-0"

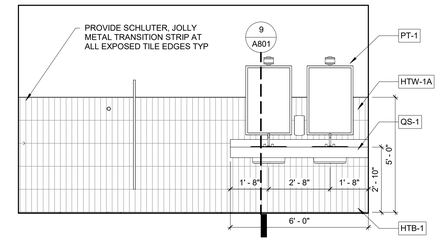


17 W. SHOWER
3/8" = 1'-0"

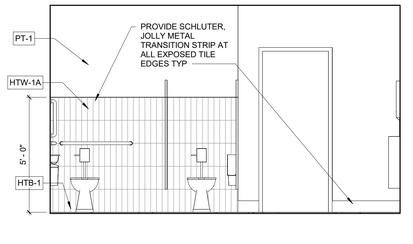


14 MEN'S NORTH INTERIOR ELEVATION
3/8" = 1'-0"

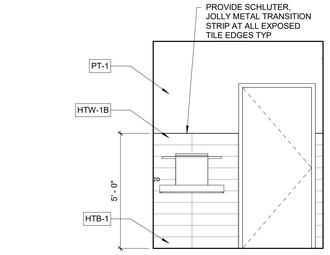
13 WOMEN'S NORTH INTERIOR ELEVATION
3/8" = 1'-0"



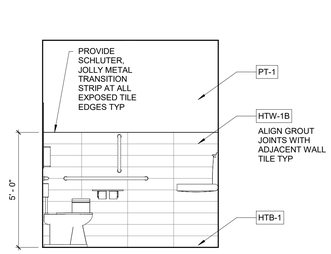
9 MEN'S SOUTH INTERIOR ELEVATION
3/8" = 1'-0"



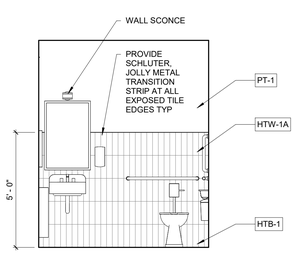
8 WOMEN'S SOUTH INTERIOR ELEVATION
3/8" = 1'-0"



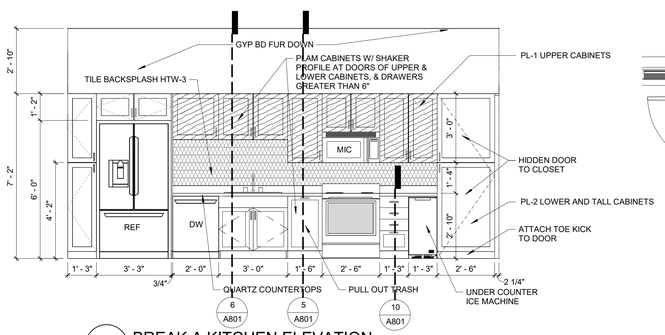
7 TLT 102 - WEST ELEVATION
3/8" = 1'-0"



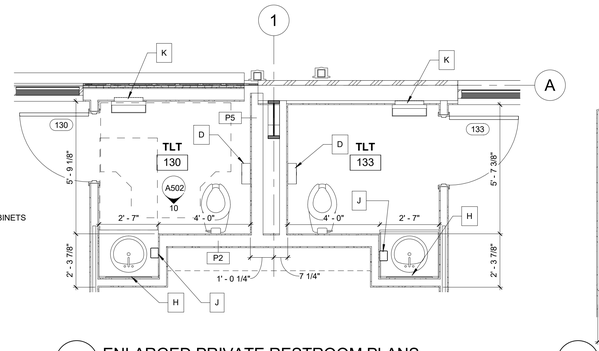
6 TLT 102 - SOUTH ELEVATION
3/8" = 1'-0"



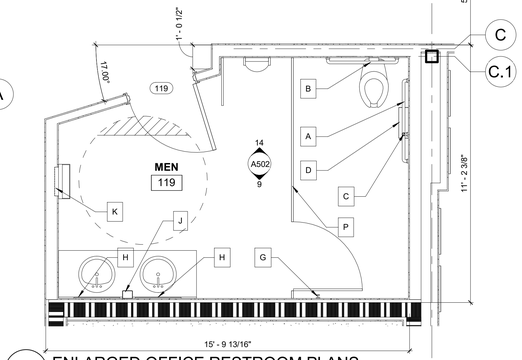
5 TLT 102 - EAST ELEVATION
3/8" = 1'-0"



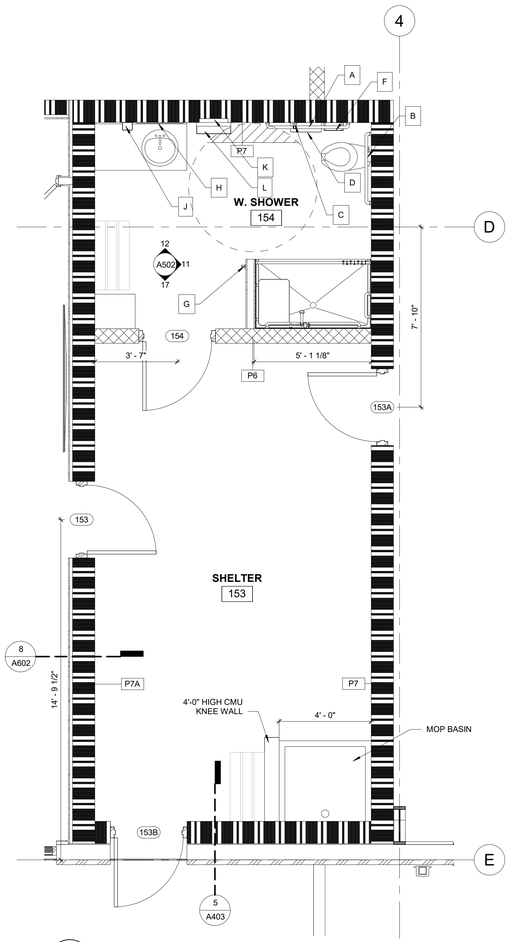
4 BREAK A KITCHEN ELEVATION
3/8" = 1'-0"



3 ENLARGED PRIVATE RESTROOM PLANS
3/8" = 1'-0"



2 ENLARGED OFFICE RESTROOM PLANS
3/8" = 1'-0"



1 SHELTER ENLARGED FLOOR PLAN
3/8" = 1'-0"

STATE OF ALABAMA
TAMMY DANIELS COHEN
REGISTRATION NO. 4168
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JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

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10/28/26

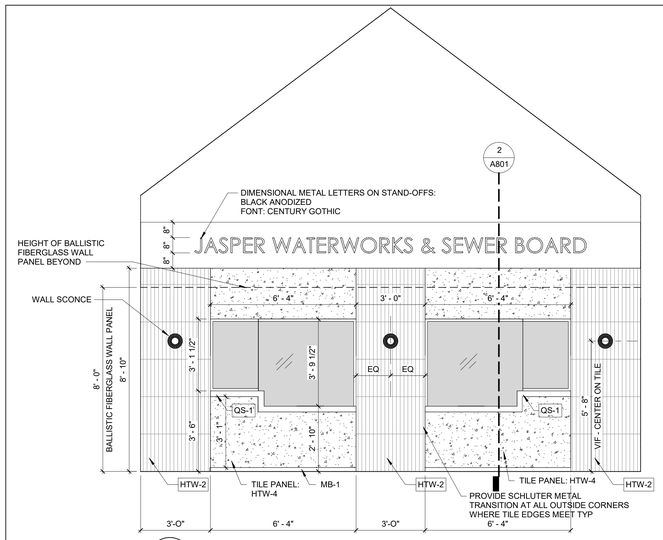
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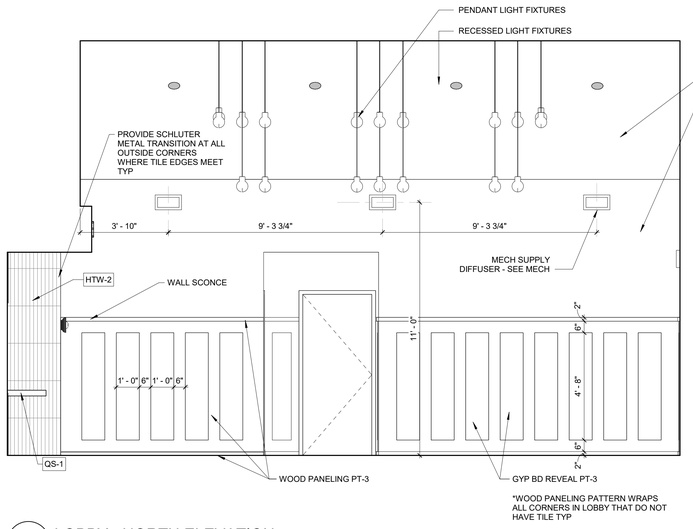
SHEET TITLE:
ENLARGED PLANS AND ELEVATIONS

SHEET NUMBER:
A502

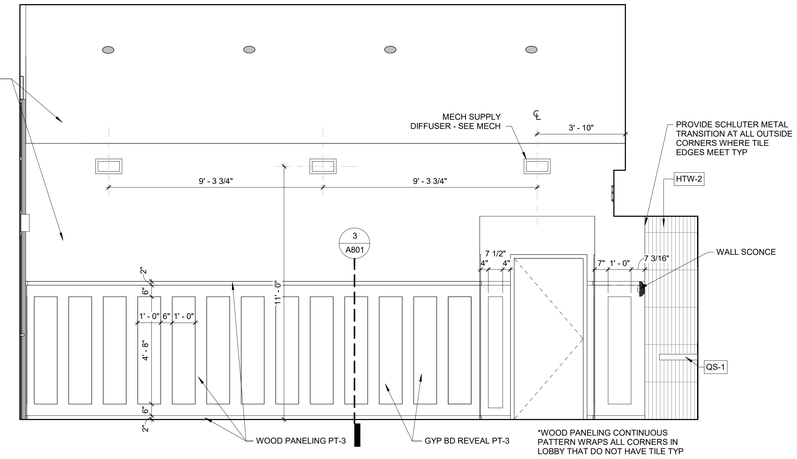
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K:\Projects\2023\23031-A Jasper Waterworks - New Build\23031-A Jasper WW - New Build.rvt
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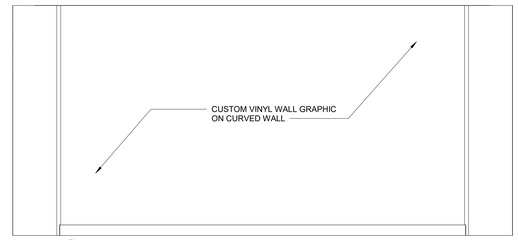
14 LOBBY - EAST ELEVATION
3/8" = 1'-0"



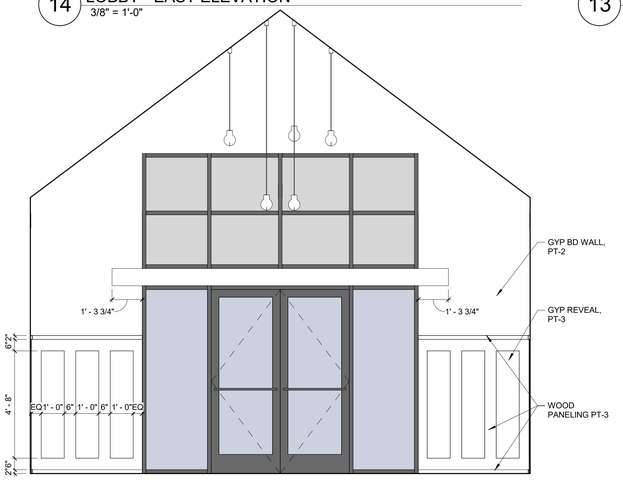
13 LOBBY - NORTH ELEVATION
3/8" = 1'-0"



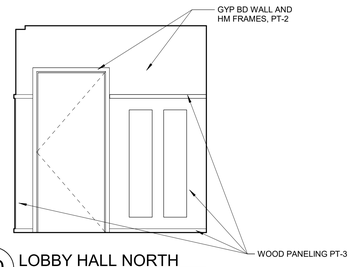
12 LOBBY - SOUTH ELEVATION
3/8" = 1'-0"



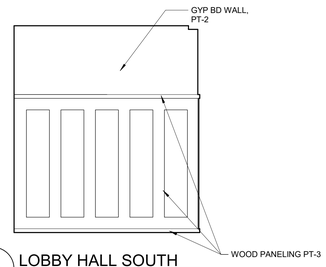
8 CUSTOMER SERVICE - EAST ELEVATION
3/8" = 1'-0"



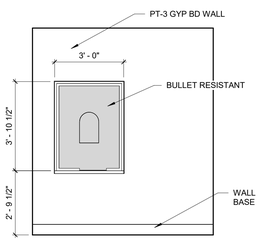
11 LOBBY ENTRY INTERIOR
3/8" = 1'-0"



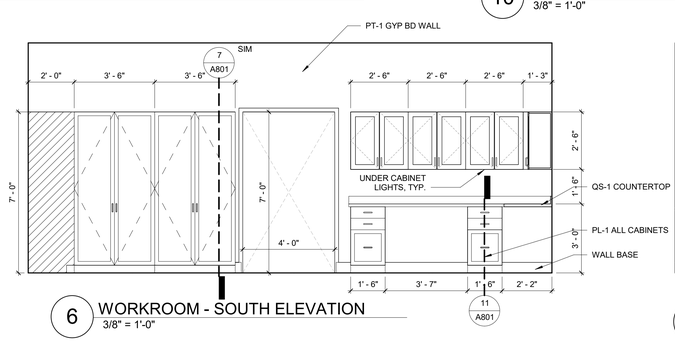
10 LOBBY HALL NORTH
3/8" = 1'-0"



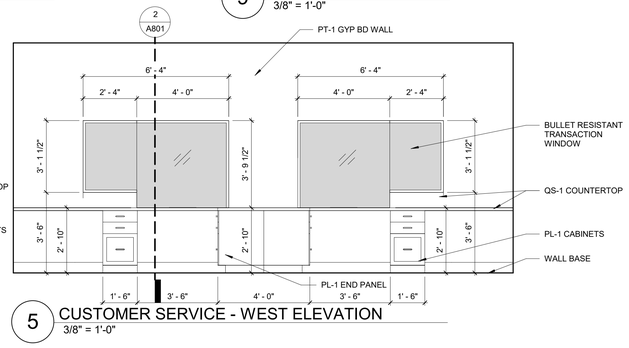
9 LOBBY HALL SOUTH
3/8" = 1'-0"



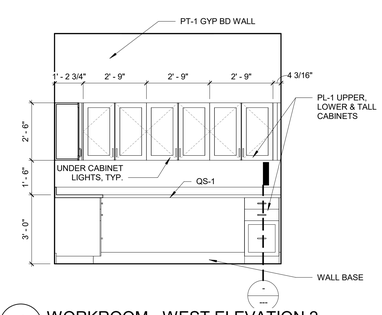
7 CUST SERV WINDOW
3/8" = 1'-0"



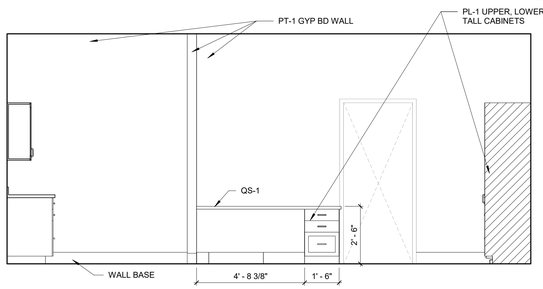
6 WORKROOM - SOUTH ELEVATION
3/8" = 1'-0"



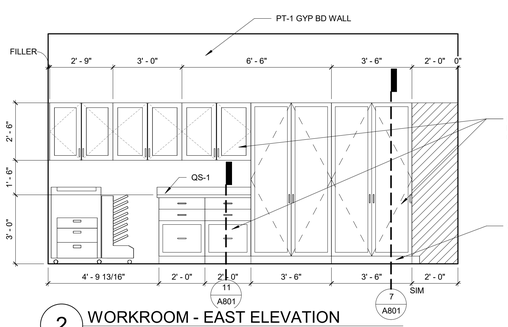
5 CUSTOMER SERVICE - WEST ELEVATION
3/8" = 1'-0"



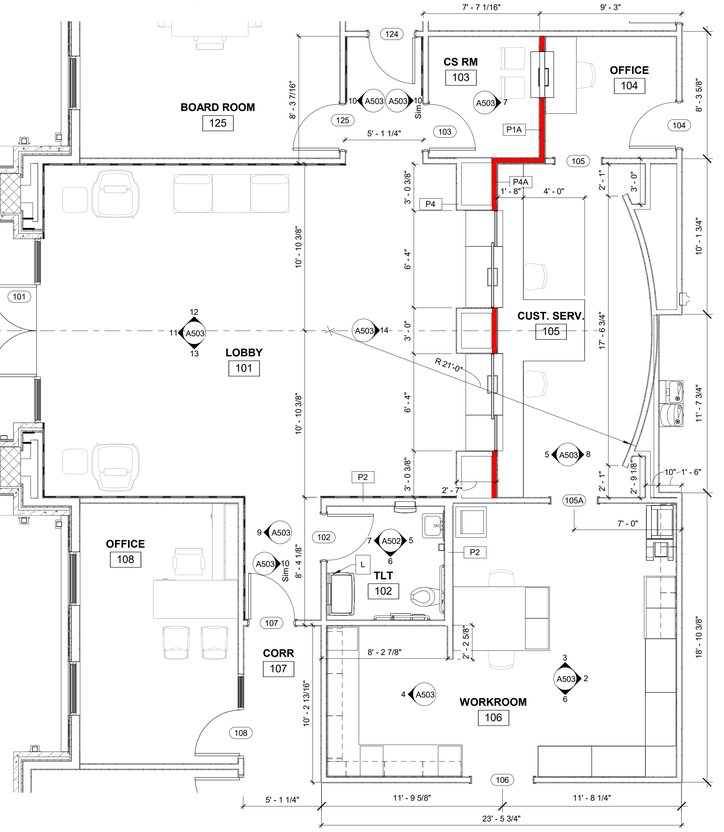
4 WORKROOM - WEST ELEVATION 2
3/8" = 1'-0"



3 WORKROOM - NORTH ELEVATION
3/8" = 1'-0"



2 WORKROOM - EAST ELEVATION
3/8" = 1'-0"



PROJECT NORTH TRUE NORTH

1 ENLARGED ENTRY FLOOR PLAN
1/4" = 1'-0"

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JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

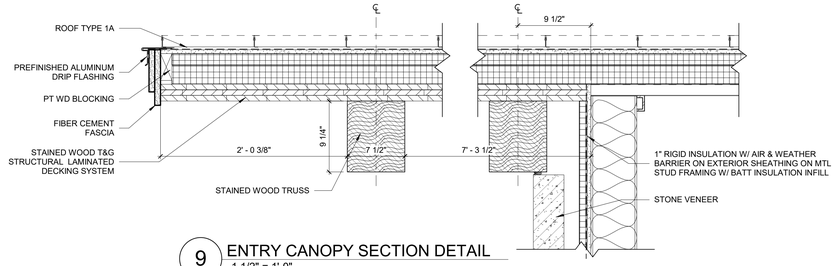
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10/28/26

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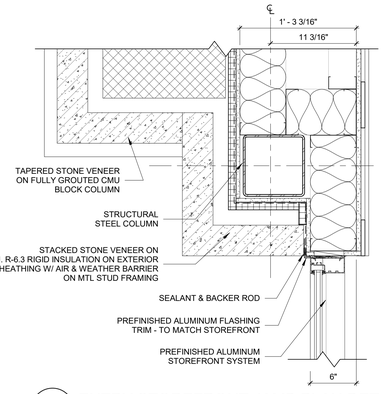
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ENLARGED PLANS AND ELEVATIONS

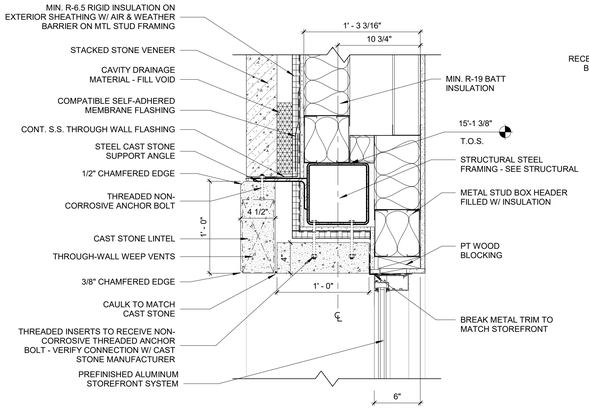
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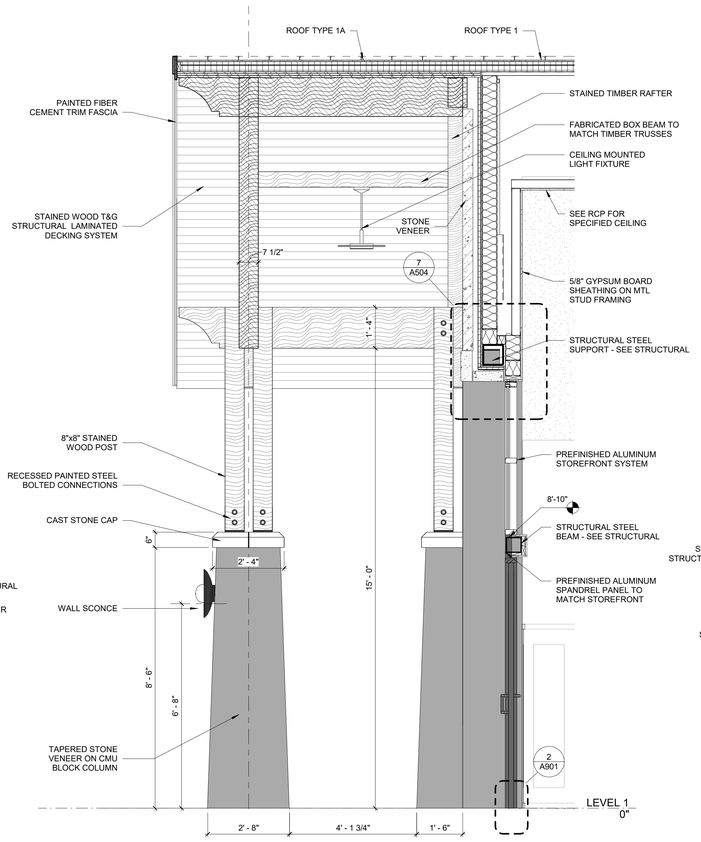
9 ENTRY CANOPY SECTION DETAIL
1 1/2" = 1'-0"



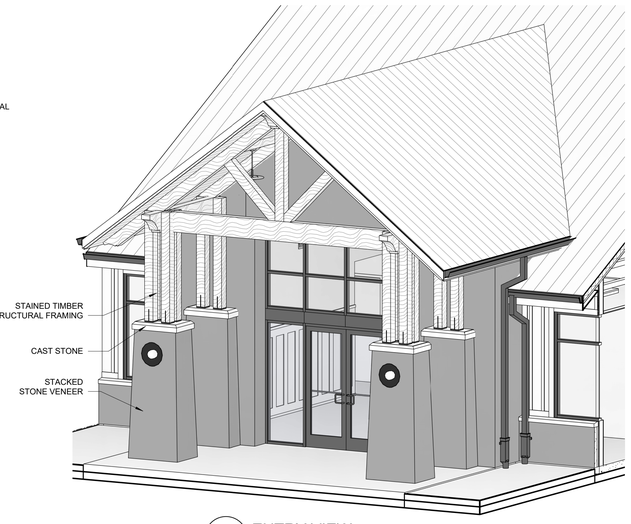
8 ENTRY STOREFRONT JAMB PLAN DETAIL
1 1/2" = 1'-0"



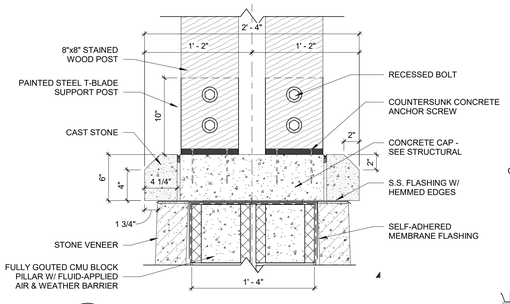
7 ENTRY STOREFRONT HEAD SECTION DETAIL
1 1/2" = 1'-0"



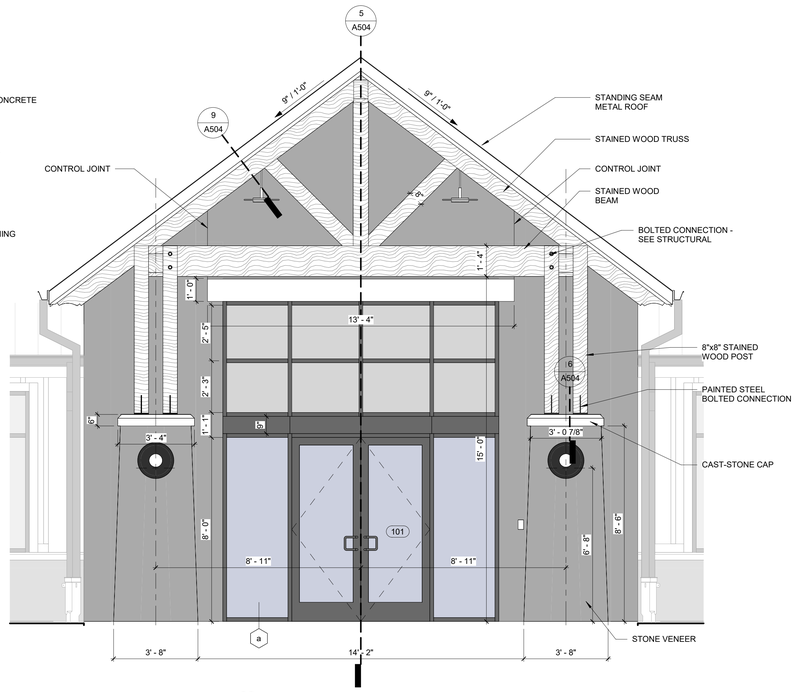
5 ENTRY CANOPY WALL SECTION
1/2" = 1'-0"



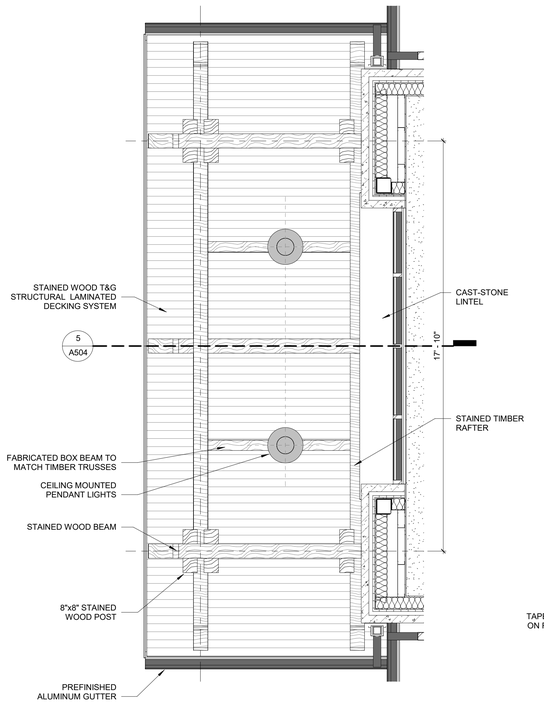
4 ENTRY VIEW



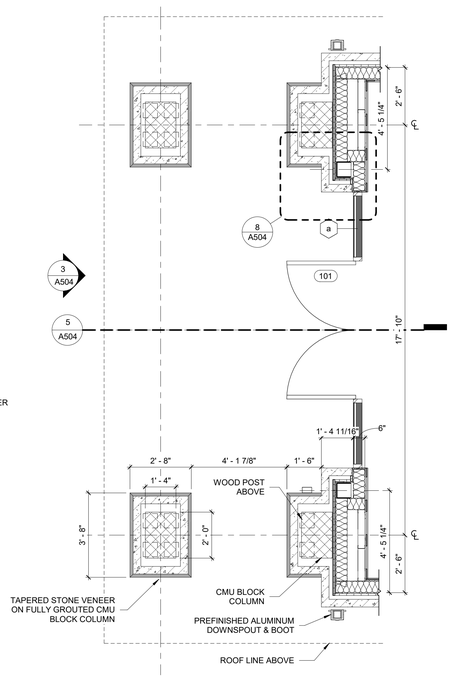
6 WOOD COLUMN SECTION DETAIL
1 1/2" = 1'-0"



3 ENLARGED ENTRY ELEVATION
3/8" = 1'-0"



2 ENLARGED ENTRY RCP
3/8" = 1'-0"



1 ENLARGED ENTRY PLAN
3/8" = 1'-0"

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C:\Users\jwalkowiak\Documents\Jasper WW - New Build2303-A jasper Walkowiak_2024_ARCH.rvt
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TAMMY DANIELS COHEN
REGISTRATION NO. 4168
ARCHITECT
BIRMINGHAM ALABAMA
REGISTERED ARCHITECT

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
10/28/26

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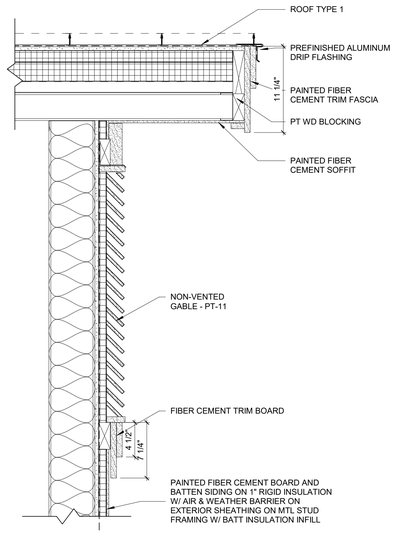
#	DESCRIPTION	DATE

SHEET TITLE:
ENLARGED ENTRY PLANS AND ELEVATIONS

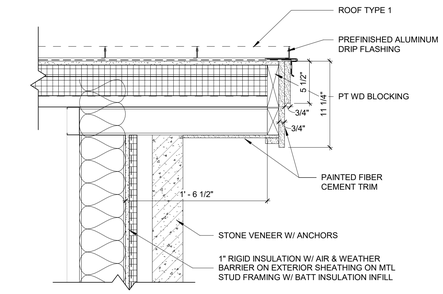
SHEET NUMBER:
A504

CONSTRUCTION NOTES - A601

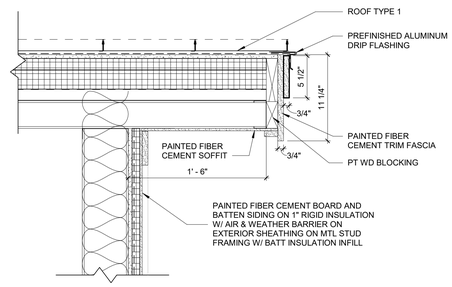
	(APPLIES TO THIS SHEET ONLY)
1	WRAP THE HEAD, JAMBS AND SILL WITH A SELF-ADHERED FLEXIBLE FLASHING IN SHINGLE FASHION THE DEPTH OF THE FRAME. EXTEND A MINIMUM OF 6 INCHES ON THE EXTERIOR SURFACE. APPLY A COMPATIBLE AIR BARRIER ON TOP OF THE FLEXIBLE FLASHING TO THE OPENING.
2	SPRAY FLUID APPLIED AIR BARRIER INTO OPENING TO WITHIN 1/2 INCH OF WINDOW FRAME DEPTH. WRAP NAILERS AT PERIMETER WITH FLEXIBLE FLASHING.
3	AT JUNCTURE OF FLUID-APPLIED AIR & WEATHER BARRIER AND SELF-ADHERED FLEXIBLE FLASHING, FOLLOW THE MANUFACTURER'S RECOMMENDATIONS REGARDING THE APPLICATION SEQUENCE AND OTHER TECHNICAL REQUIREMENTS.
4	SHIM USING PLASTIC HORSESHOE SHIMS. DO NOT BREAK CONTINUITY OF SEALANT.
5	PROVIDE INNER AND OUTER PREFORMANCE JOINTS AT STOREFRONT FRAME PER MANUFACTURER'S REQUIREMENTS.



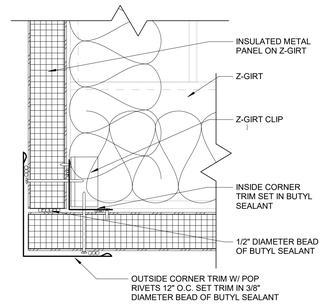
14 GABLE VENT SECTION DETAIL
1 1/2" = 1'-0"



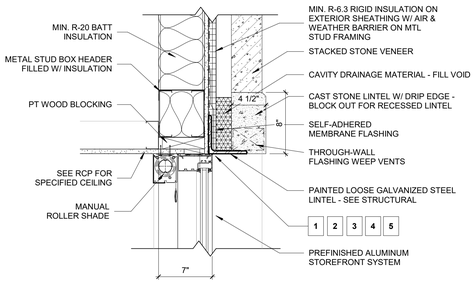
11 STONE EAVE SECTION DETAIL
1 1/2" = 1'-0"



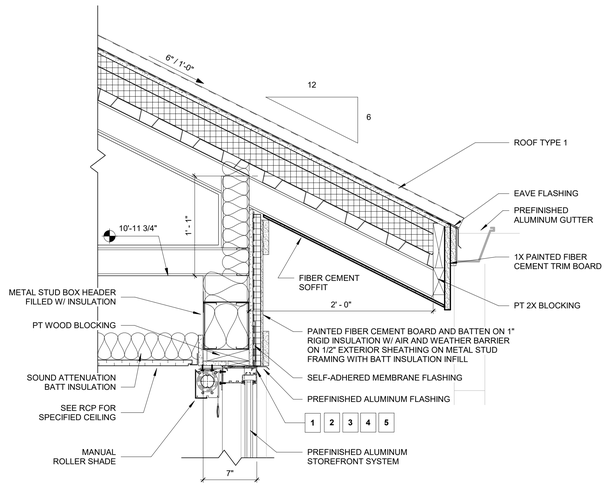
10 STANDING SEAM ROOF GABLE SECTION DETAIL
1 1/2" = 1'-0"



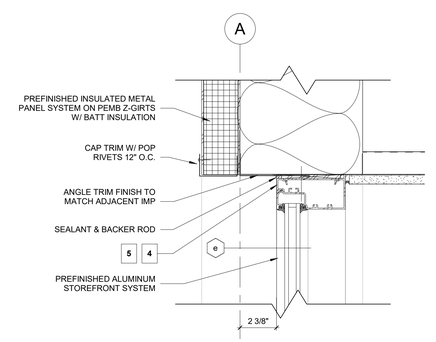
7 IMP CORNER TRANSITION PLAN DETAIL
3" = 1'-0"



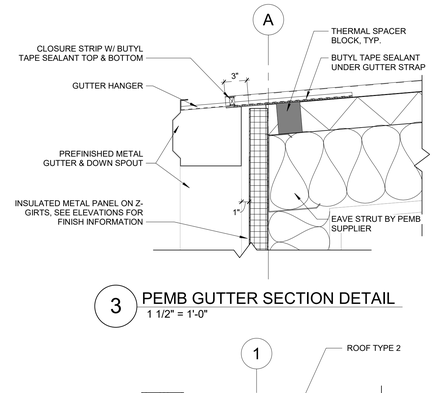
13 CAST-STONE HEADER SECTION DETAIL
1 1/2" = 1'-0"



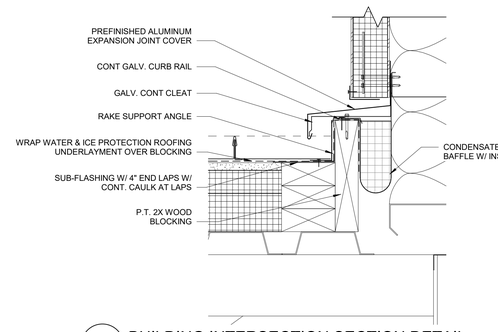
9 OFFICE EAVE SECTION DETAIL
1 1/2" = 1'-0"



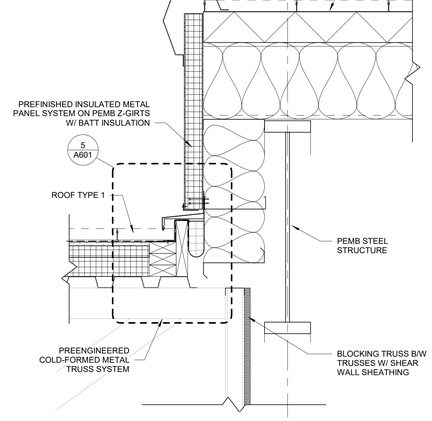
6 IMP STOREFRONT HEAD SECTION DETAIL
3" = 1'-0"



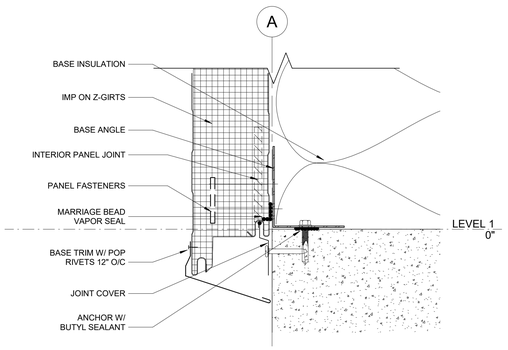
3 PEMB GUTTER SECTION DETAIL
1 1/2" = 1'-0"



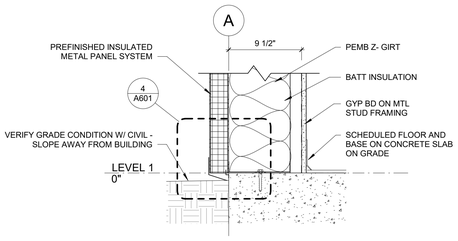
5 BUILDING INTERSECTION SECTION DETAIL
3" = 1'-0"



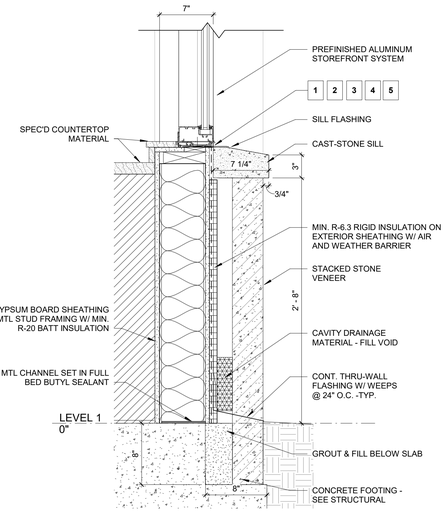
2 PEMB RAKE SECTION DETAIL
1 1/2" = 1'-0"



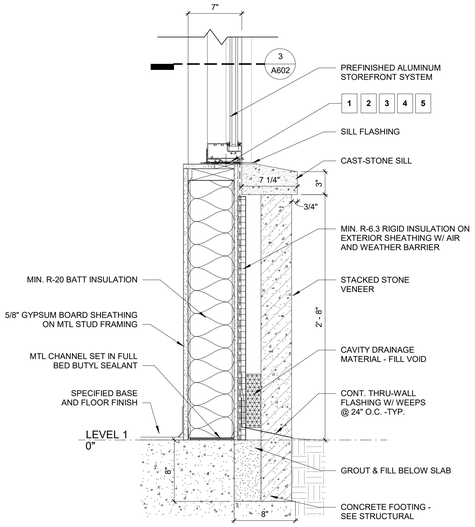
4 IMP BASE DETAIL
6" = 1'-0"



1 PEMB BASE SECTION DETAIL
1 1/2" = 1'-0"



12 CAST-STONE SILL SECTION DETAIL
1 1/2" = 1'-0"



8 STONE BASE SECTION DETAIL
1 1/2" = 1'-0"

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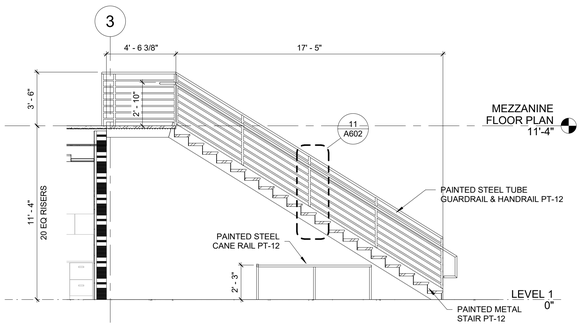
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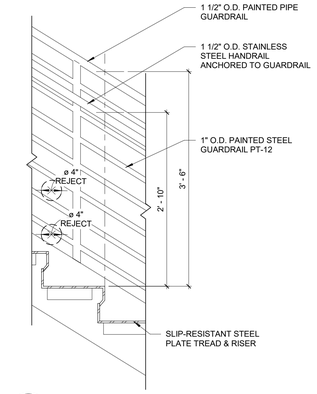
SHEET TITLE:
BUILDING DETAILS

SHEET NUMBER:
A601

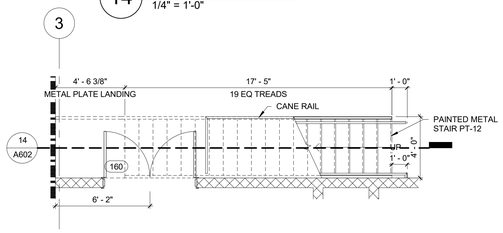
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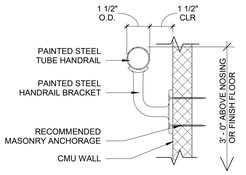
14 STAIR SECTION
1/4" = 1'-0"



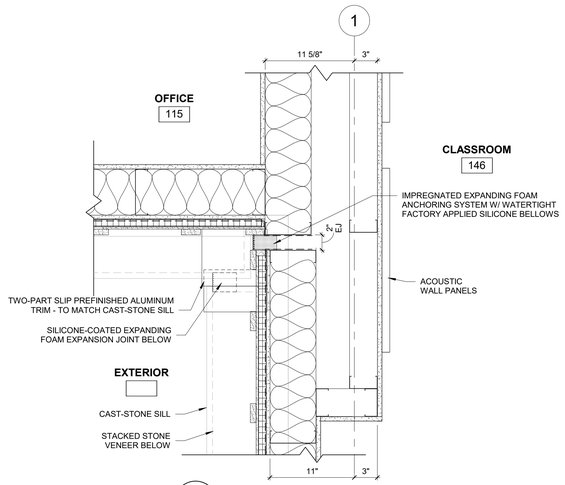
11 STAIR GUARDRAIL ELE
1" = 1'-0"



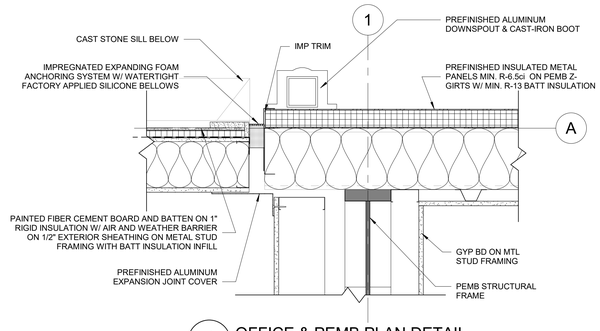
13 ENLARGED STAIR PLAN
1/4" = 1'-0"



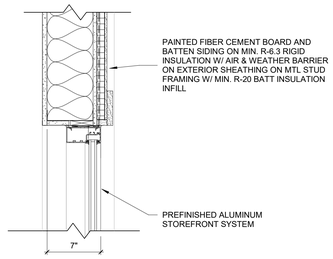
10 WALL MOUNTED HANDRAIL
3" = 1'-0"



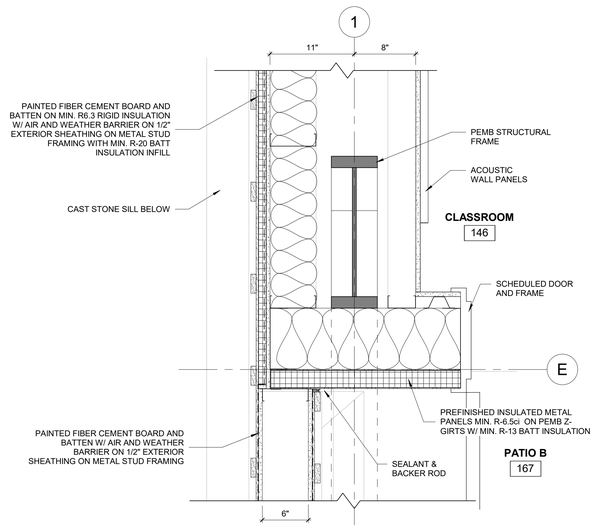
7 EXPANSION JOINT PLAN DETAIL
1 1/2" = 1'-0"



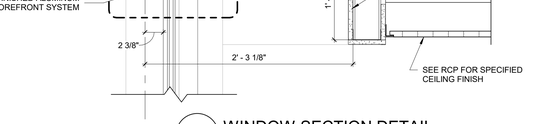
4 OFFICE & PEMB PLAN DETAIL
1 1/2" = 1'-0"



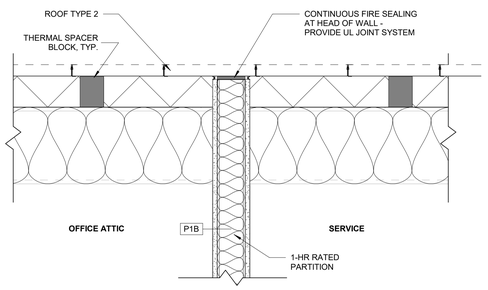
3 STOREFRONT JAMB PLAN DETAIL
1 1/2" = 1'-0"



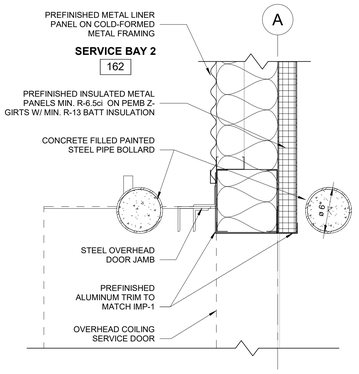
6 PEMB & PATIO WALL PLAN DETAIL
1 1/2" = 1'-0"



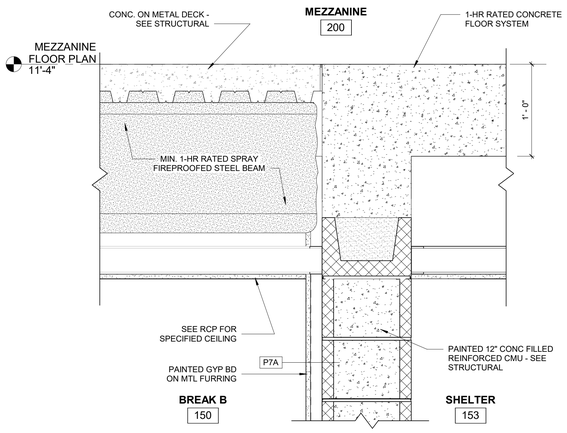
2 PATIO WALL END PLAN DETAIL
1 1/2" = 1'-0"



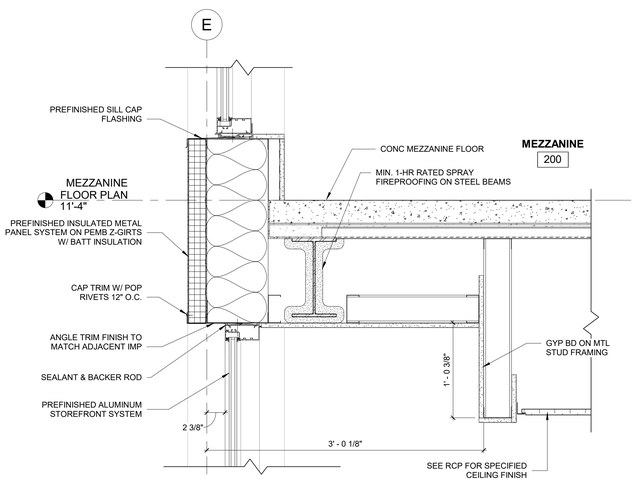
12 ROOF SECTION DETAIL
1 1/2" = 1'-0"



9 OH DOOR JAMB PLAN DETAIL
1 1/2" = 1'-0"



8 SHELTER WALL SECTION DETAIL
1 1/2" = 1'-0"



5 MEZZ SLAB EDGE SECTION DETAIL
1 1/2" = 1'-0"

1 WINDOW SECTION DETAIL
1 1/2" = 1'-0"

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JOB NUMBER:
23031-A

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#	DESCRIPTION	DATE

SHEET TITLE:
BUILDING DETAILS

SHEET NUMBER:
A602

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	COMMENTS
101	LOBBY	HTF-2, CPT-2	-	PT-2,3	HTW-2,4	PT-2,3	PT-2,3	
102	TLT	HTF-1	HTB-1	PT-1, HTW-1	PT-1, HTW-1	PT-1, HTW-1	PT-1, HTW-1	
103	CS RM	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
104	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
105	CUST. SERV.	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
106	WORKROOM	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
107	CORR	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
108	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
109	CORR	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
110	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
111	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
112	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
113	JAN.	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
114	CLS	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
115	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
116	STOR	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
117	CORR	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
118	VAULT	SEALED CONCRETE	RB-1	PT-1	PT-1	PT-1	PT-1	
119	MEN	HTF-1	HTB-1	PT-1, HTW-1	PT-1, HTW-1	PT-1, HTW-1	PT-1, HTW-1	
120	WOMEN	HTF-1	HTB-1	PT-1, HTW-1	PT-1, HTW-1	PT-1, HTW-1	PT-1, HTW-1	
121	CONFERENCE	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
122	STORAGE	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
123	CORR	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
124	CORR	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
125	BOARD ROOM	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
126	BREAK A	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
127	CLS	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
128	PATIO A							
129	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
130	TLT	HTF-1	HTB-1	PT-1, HTW-1	PT-1, HTW-1	PT-1, HTW-1	PT-1, HTW-1	
131	CLS	HTF-2	HTB-1	PT-1	PT-1	PT-1	PT-1	
132	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
133	TLT	HTF-1	HTB-1	PT-1, HTW-1	PT-1, HTW-1	PT-1, HTW-1	PT-1, HTW-1	
134	OFFICE	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
135	OFFICE	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
136	PLOTTER	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
137	OFFICE	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
138	CORR	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
139	OFFICE	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
140	OFFICE	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
141	OFFICE	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
142	OFFICE	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
143	CORR	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	COMMENTS
144	OFFICE	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
145	OFFICE	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
146	CLASSROOM	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
147	WOMEN	HTF-1	HTB-1	PT-1, HTW-1	PT-1, HTW-1	PT-1, HTW-1	PT-1, HTW-1	
148	JAN.	HTF-2	HTB-1	PT-1	PT-1	PT-1	PT-1	
149	MEN	HTF-1	HTB-1	PT-1, HTW-1	PT-1, HTW-1	PT-1, HTW-1	PT-1, HTW-1	
150	BREAK B	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
151	CLS	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
152	CLS	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	
153	SHELTER	SEALED CONCRETE	RB-1	PT-1	PT-1	PT-1	PT-1	
154	W. SHOWER	HTF-1	HTB-1	EXW-1, HTW-1	EXW-1, HTW-1	EXW-1, HTW-1	EXW-1, HTW-1	
155	RESTROOM	HTF-1	HTB-1	PT-1, HTW-1	PT-1, HTW-1	PT-1, HTW-1	EXW-1, HTW-1	
156	SHOWER	HTF-1	HTB-1	SP-1	SP-1	SP-1	SP-1	
157	JAN	HTF-2	HTB-1	PT-1	PT-1	PT-1	PT-1	
158	LOCKER RM	HTF-1	HTB-1	PT-1	PT-1	PT-1	PT-1	
159	CLS	EX-1	RB-1	PT-1	PT-1	PT-1	PT-1	
160	STORAGE	EX-1	RB-1	PT-1	PT-1	PT-1	PT-1	
161	SERVICE BAY 1	EX-1	RB-1	PT-1, MP-1	PT-1, MP-1	PT-1, MP-1	PT-1, MP-1	
162	SERVICE BAY 2	EX-1	RB-1	PT-1, MP-1	PT-1, MP-1	PT-1, MP-1	PT-1, MP-1	
163	SERVICE BAY 3	EX-1	RB-1	PT-1, MP-1	PT-1, MP-1	PT-1, MP-1	PT-1, MP-1	
164	SERVICE BAY 4	EX-1	RB-1	PT-1, MP-1	PT-1, MP-1	PT-1, MP-1	PT-1, MP-1	
165	SERVICE BAY 5	EX-1	RB-1	PT-1, MP-1	PT-1, MP-1	PT-1, MP-1	PT-1, MP-1	
166	MECHANIC SHOP	EX-1	RB-1	PT-1, MP-1	PT-1, MP-1	PT-1, MP-1	PT-1, MP-1	
167	PATIO B							
171	RISER	EX-1	RB-1	PT-1	PT-1	PT-1	PT-1	
172	STOR	EX-1	RB-1	PT-1	PT-1	PT-1	PT-1	
173	TOOL	EX-1	RB-1	PT-1, MP-1	PT-1, MP-1	PT-1, MP-1	PT-1, MP-1	
174	CLOSET	LVT-1	WB-1	PT-1	PT-1	PT-1	PT-1	

FINISH NOTES:

GENERAL
1. FINISH MATERIALS SHALL BE NEW AND OF FIRST RATE QUALITY UNLESS REUSE OF EXISTING FINISH MATERIALS IS NOTED. INSTALL MATERIALS ACCORDING TO SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS (WHICHEVER IS MORE STRINGENT).
2. RUBBER BASE IS TO BE PURCHASED IN ROLLS, NOT 4'-0" SECTIONS.
3. PREFORMED RUBBER BASE CORNERS ARE NOT ACCEPTABLE.
4. DO NOT PAINT ANY PREFINISHED ITEMS, INCLUDING BUT NOT LIMITED TO: FIRE SPRINKLER HEADS, FIRE ALARM DEVICES, SPEAKERS, OR PREFINISHED METAL ITEMS UNLESS OTHERWISE NOTED.
5. PAINT **PNT-1** SHALL BE PAINTED ON ALL GYP WALLS UNLESS NOTED OTHERWISE.
6. PAINT NO STONE WALLS UNLESS NOTED OTHERWISE
7. PROVIDE TRANSITION STRIP AT ALL AREAS WHERE TRANSITION OF FLOORING MATERIALS MEET
8. ALL MECHANICAL, ELECTRICAL AND SPRINKLER RISER ROOMS WHERE WALLS ARE INTERIOR GYP. BD. (WALL AND CEILINGS) JOINTS SHALL BE MUDDED AND TAPED AND REMAIN UNPAINTED. FLOORING SHALL REMAIN EXISTING.
9. SEE FLOOR FINISH PLANS FOR FLOOR PATTERNS.
10. PRIME ONE COAT AND PAINT TWO FINISH COATS.
11. ELECTRICAL PLATES AND LIGHT SWITCH COVERS TO HAVE STAINLESS STEEL FINISH.
12. PATCH AND REPAIR WALLS FOR NEW FINISHES AS SCHEDULED.
13. WHERE HARD FLOOR TILE IS USED, CENTER PATTERN IN ROOM. ALIGN VERTICAL GROUT LINES OF WALL TILE WITH THOSE IN FLOOR TILE.
14. GROUT COLORS TO BE DETERMINED DURING CONSTRUCTION IF NOT LISTED.
15. IN EVENT OF VE INSTALL 3MM EDGE BAND ON ALL PLASTIC LAMINATE COUNTERTOPS TO MATCH COUNTERTOP LAMINATE COLOR. GC TO ALLOW ADEQUATE TIME FOR SPECIAL PRODUCTION RUN.
16. ALL ACCESS PANELS AND GRILLES TO BE PAINTED WALL OR CEILING COLOR, UNLESS OTHERWISE NOTED.

FINISH LEGEND

FLOOR

NUMBER	TYPE	DETAIL DESCRIPTION
CPT-1	CARPET	MANUFACTURER: INTERFACE EE711 STYLE: ETCHED EARTH COLOR: 103460 STONE SIZE: 50 CM X 50 CM, INSTALLATION: MONO
CPT-2	CARPET	MANUFACTURER: INTERFACE COLLECTION: STEP REPEAT PRODUCT: 1388602500 COLOR: 104938 SMOKE SIZE: 50 CM X 50 CM, INSTALLATION: MONO
LVT-1	LUXURY VINYL TILE	MANUFACTURER: INTERFACE STYLE NAME: NORTHER GRAIN COLOR: A02607 DARK WASH SIZE: 25 CM X 1 M
LVT-2	LUXURY VINYL TILE	MANUFACTURER: INTERFACE STYLE NAME: IN THE MIX COLOR: KEYSTONE SIZE: 50 CM X 50 CM
HTF-1	HARD TILE FLOOR	MANUFACTURER: CONCEPT SURFACES STYLE NAME: AKARD COLOR: SHADOW SIZE: 12 X 24 LOCATION: RESTROOMS
HTF-2	HARD TILE FLOOR	MANUFACTURER: SOUTH CYPRESS SERIES: NATURALE COLOR: BARK SIZE:
EX-1	EPOXY FLOOR	MANUFACTURER: SHERWIN WILLIAMS PRODUCT: RESUFLOR SHOP FLOOR SB COLOR: STEEL GRAY LOCATION: SERVICE BAY

BASE

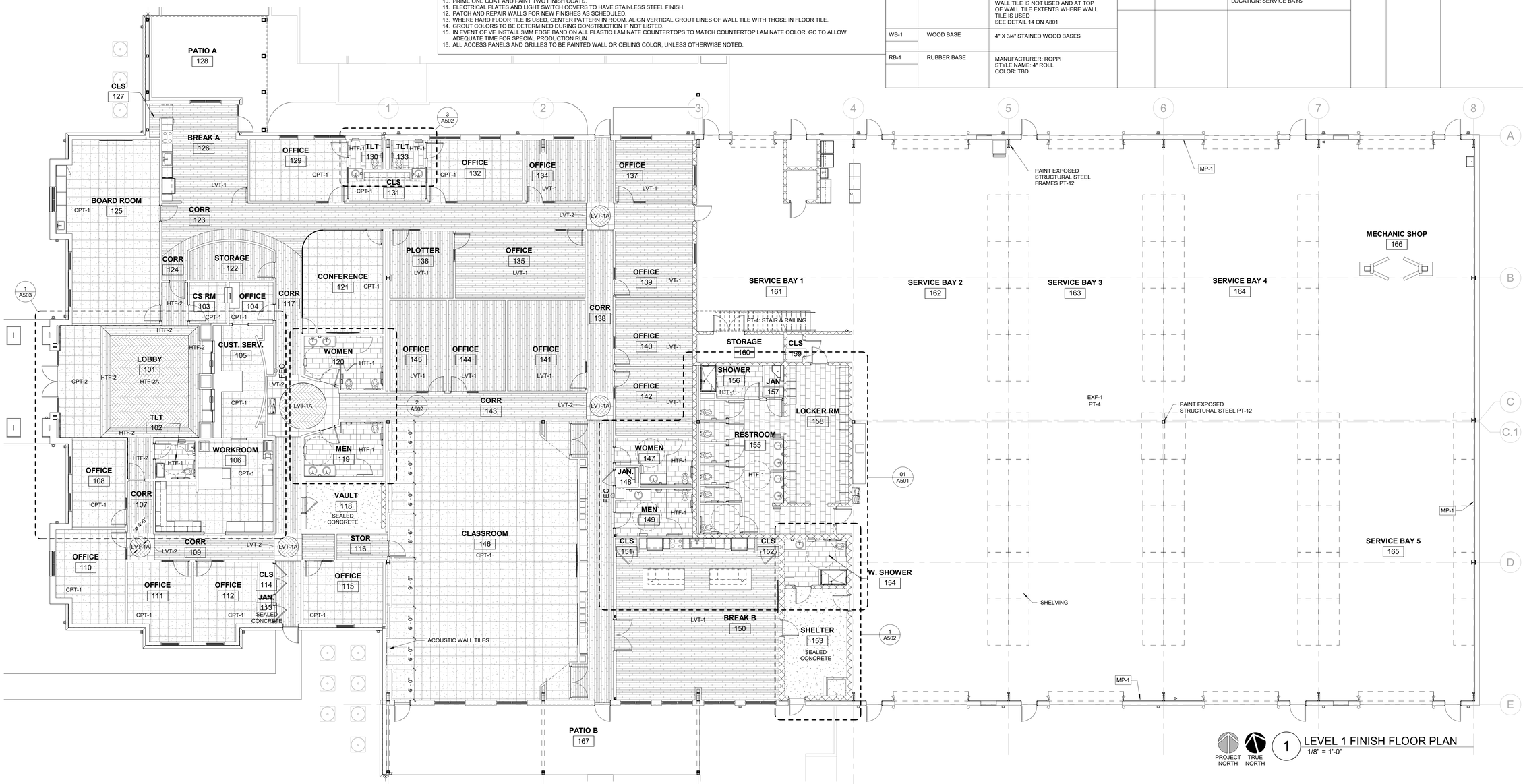
NUMBER	TYPE	DETAIL DESCRIPTION
HTB-1	HARD TILE BASE	HTW-1 WITH A BRUSHED NICKEL SCHLUTER COVE AND JOLLY TRANSITION AT 6"(HTW-1B) WHERE WALL TILE IS NOT USED AND AT TOP OF WALL TILE EXTENTS WHERE WALL TILE IS USED SEE DETAIL 14 ON A801
WB-1	WOOD BASE	4" X 3/4" STAINED WOOD BASES
RB-1	RUBBER BASE	MANUFACTURER: ROPPI STYLE NAME: 4" ROLL COLOR: TBD

WALL

NUMBER	TYPE	DETAIL DESCRIPTION
PT-1	PAINT	MANUFACTURER: SHERWIN WILLIAMS COLOR: SW 7043 WORLDLY GRAY LOCATION: GENERAL PAINT
PT-2	PAINT	MANUFACTURER: SHERWIN WILLIAMS COLOR: SW 7031 MEGA GREIGE
PT-3	PAINT	MANUFACTURER: SHERWIN WILLIAMS COLOR: SW 7608 ADRIFT LOCATION: ACCENT
PT-4	PAINT	MANUFACTURER: SHERWIN WILLIAMS COLOR: SW 7069 IRON ORE LOCATION: METAL STAIRS & RAILINGS
HTW-1A HTW-1B	HARD TILE WALL	MANUFACTURER: SOUTH CYPRESS SERIES: BROOKLYN COLOR: PLAZA SIZE A: 3" X 12" SIZE B: 6" X 24"
HTW-2	HARD TILE WALL	MANUFACTURER: SOUTH CYPRESS SERIES: DUTCH COLOR: QUEEN SIZE: 2" X 20" GROUT CUSTOM GROUT SOLUTIONS COLOR: #90 OCEAN BLUE
HTW-3	HARD TILE WALL	MANUFACTURER: SOUTH CYPRESS SERIES: DIRHAM STYLE: PEARL SIZE: TEARDROP MOSAIC INSTALLATION: STACKED GROUT CUSTOM GROUT SOLUTIONS COLOR: #90 OCEAN BLUE LOCATION: BREAKROOMS
HTW-4	HARD TILE WALL	MANUFACTURER: CONCEPT SURFACES SERIES: AURA 4.0, COLOR: TIFFANY GREEN, FINISH: POLISHED SIZE: 48" X 110"
TP-1	TOILET PARTITION	MANUFACTURER: SCRANTON PRODUCTS STYLE: HINEY HIDERS COLOR: HAMMERED STAINLESS LOCATION: MULTISTALL RESTROOMS
MP-1	METAL PANEL	MANUFACTURER: COLOR: TO BE SELECTED FROM MANUFACTURER'S STANDARD COLORS LOCATION: SERVICE BAYS

MISC

NUMBER	TYPE	DETAIL DESCRIPTION
PL-1	PLASTIC LAMINATE	MANUFACTURER: WILSONART STYLE/ COLOR: WALNUT PB NATURAL FINISH: TIMBERGRAIN FINISH
PL-2	PLASTIC LAMINATE	MANUFACTURER: WILSONART STYLE: PEWTER D73-60 FINISH: MATTE FINISH LOCATION: LOWER AND TALL CABINETS WHERE LVT FLOORING
QS-1	QUARTZ SURFACE	MANUFACTURER: CAMBRIA STYLE/ COLOR: SALT LAKE FINISH: POLISHED LOCATION: ALL COUNTERTOPS
CP-1	CABINET PULL	MANUFACTURER: REJUVENATION STYLE/ COLOR: BLAIR DRAWER PULL ITEM #: C106233 FINISH: BRUSHED NICKEL LOCATION: ALL CABINET HARDWARE
AWP-1	ACOUSTICAL WALL PANEL	FABRIC WRAPPED ACOUSTIC PANEL FABRIC: MANUFACTURER: CARNEGIE TYPE: XOREL COLOR: MOJAVE MATTE 6091-501 PANEL: QUIET CORE 1"



1 LEVEL 1 FINISH FLOOR PLAN
1/8" = 1'-0"

STATE OF ALABAMA
TAMMY DANIELS COHEN
REGISTRATION NO. 4168
ARCHITECT
BIRMINGHAM ALABAMA
REGISTERED ARCHITECT

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
10/28/26

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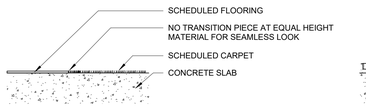
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LEVEL 1 FINISH PLAN

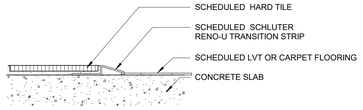
SHEET NUMBER:
A701

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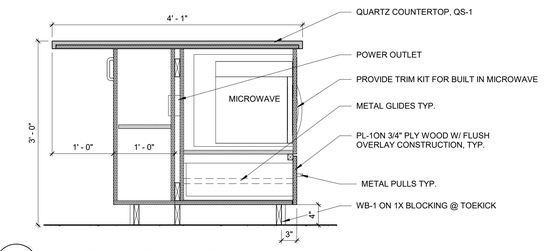
TYPICAL DETAIL NOTES:
1. SEE ELEVATIONS FOR MATERIAL COLOR DESIGNATIONS
2. ELEVATION VIEWS DICTATE IF UPPER CABINET IS INCLUDED IN CONFIGURATION
3. ELEVATION VIEWS TO DICTATE PROFILE OF CABINET DOORS



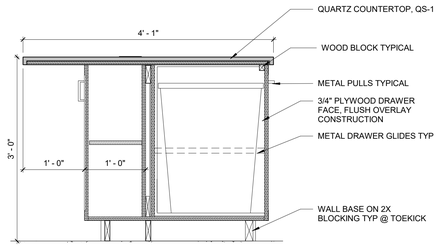
17 LVT TO CPT - TYP
3" = 1'-0"



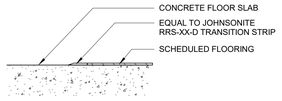
16 HTF TO LVT OR CARPET- METAL
3" = 1'-0"



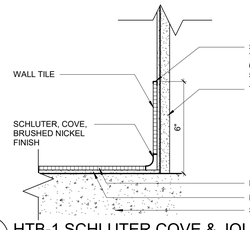
13 ISLAND - MICROWAVE
1" = 1'-0"



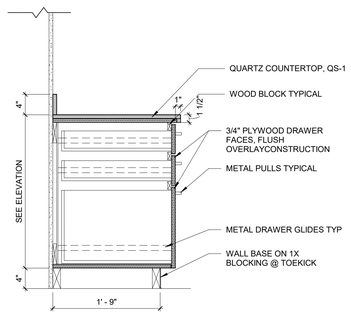
12 ISLAND - TRASH
1" = 1'-0"



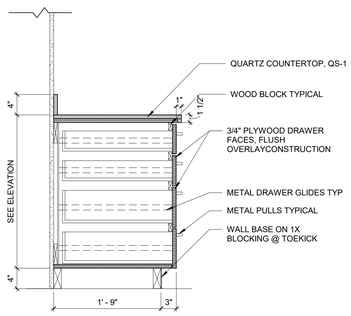
15 SC TO LVT - TYP
3" = 1'-0"



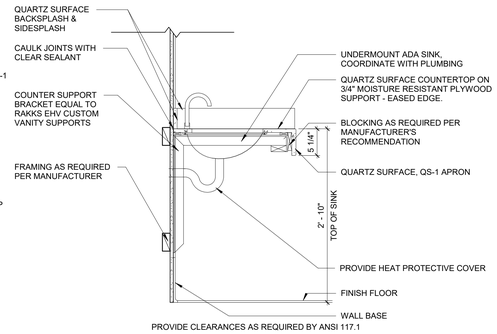
14 HTB-1 SCHLUTER COVE & JOLLY
3" = 1'-0"



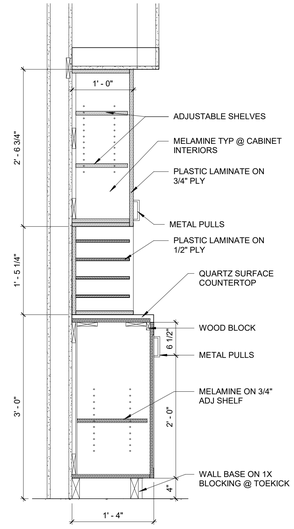
11 BASE CABINET WITH 3 DRAWERS
1" = 1'-0"



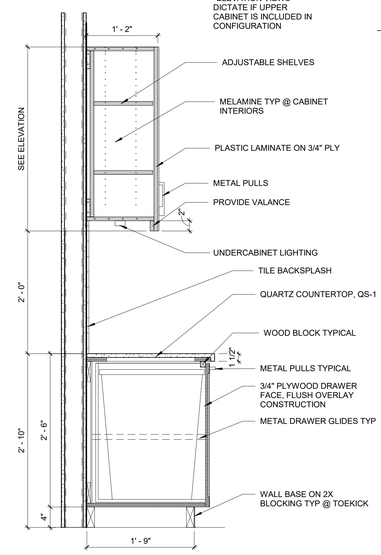
10 BASE CABINET WITH DRAWERS
1" = 1'-0"



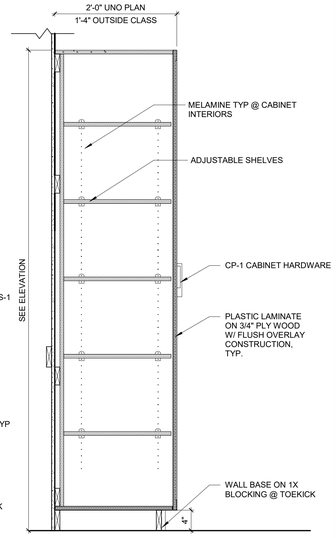
9 ADA SINK BASE UNDERMOUNT
1" = 1'-0"



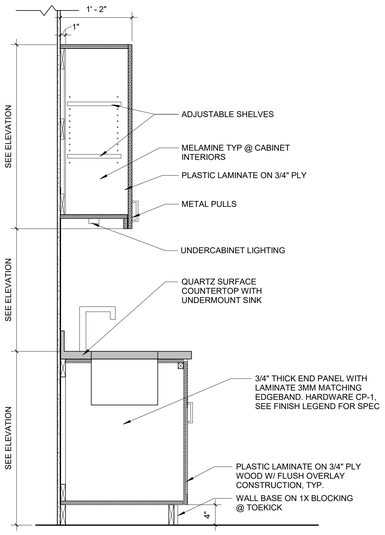
18 MAIL CABINET
1" = 1'-0"



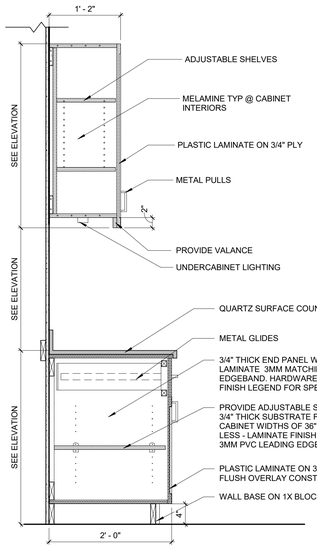
8 PULL OUT TRASH
1" = 1'-0"



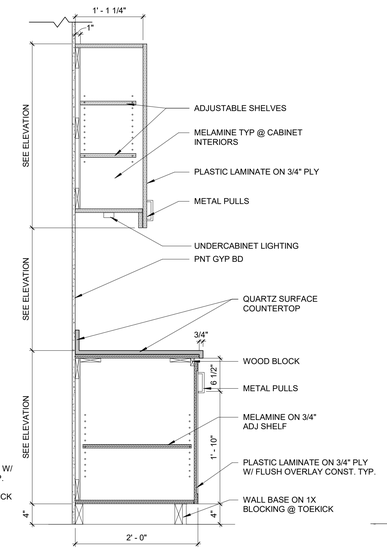
7 TALL CABINET
1" = 1'-0"



6 BASE CAB SINK
1" = 1'-0"

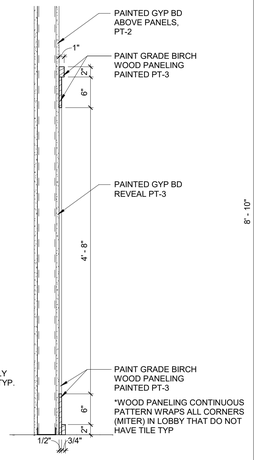


5 BASE CABINET DOOR & DRAWERS
1" = 1'-0"



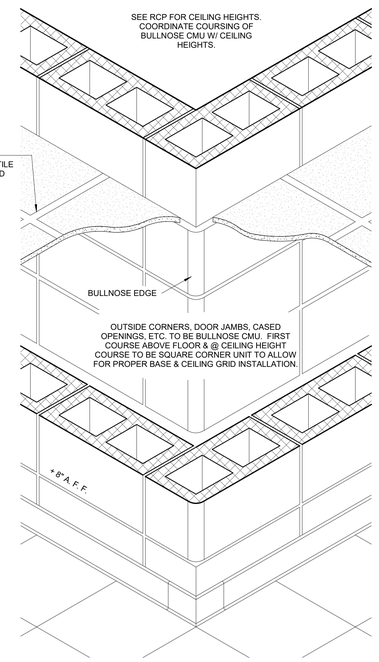
4 BASE CABINET DOOR ONLY
1" = 1'-0"

NOTE: PROVIDE BLOCKING AS NEEDED



3 WOOD PANELING
1" = 1'-0"

2 TRANSACTION COUNTER SECTION
1" = 1'-0"



1 TYP BULLNOSE AXON
1/8" = 1'-0"

STATE OF ALABAMA
TAMMY DANIELS COHEN
REGISTRATION NO. 4168
ARCHITECT
BIRMINGHAM ALABAMA
REGISTERED ARCHITECT

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER: 23031-A

DATE: 10/28/26

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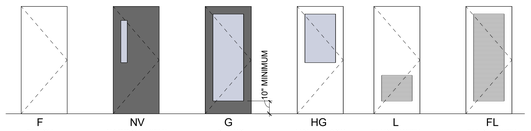
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SHEET TITLE: INTERIOR DETAILS

SHEET NUMBER: A801

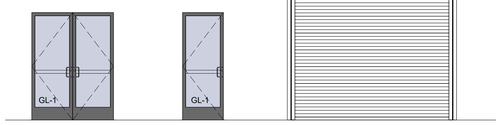
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DOOR LEGEND



F — FLUSH
NV — NARROW VIEW
G — GLASS
HG — HALF GLASS
L — FLUSH WITH LOUVER
FL — FLUSH WITH FULL LOUVER

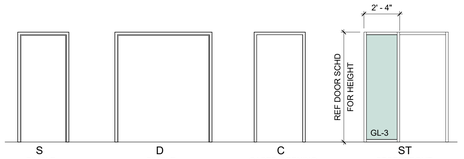
SOLID CORE WOOD DOORS EQUAL TO:
MANUFACTURER: VT ARCHITECTURAL WOOD DOORS
SPECIES: SELECT WHITE BIRCH
COLOR: RIVERSTONE RI18



SF2 — DOUBLE STOREFRONT
SF1 — SINGLE STOREFRONT

OH — OVERHEAD COILING

FRAME LEGEND



S — SINGLE
D — SINGLE
C — CASED OPENING
ST — STOREFRONT

DOOR, FRAME AND HARDWARE SCHEDULE

SPACE NO. / DOOR DESIGNATION	FROM ROOM	TO ROOM	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICK	DOOR DESCRIPTION TYPE	DOOR DESCRIPTION MAT'L	DOOR DESCRIPTION GLASS	FRAME DESCRIPTION TYPE	FRAME DESCRIPTION MAT'L	FRAME DESCRIPTION DETAILS	FIRE RATING	HARDWARE SETS	REMARKS
101	EXTERIOR	LOBBY	6'-0"	8'-0"	1 3/4"	SF2	ALUM.	GL-1		ALUM.				
102	TLT	LOBBY	3'-0"	7'-0"	1 3/4"	F	HM		S	HM				
103	LOBBY	CS RM	3'-0"	7'-0"	1 3/4"	F	SCW		S	WD				
104	OFFICE	CORR	3'-0"	7'-0"	1 3/4"	F	SCW		S	WD				
105	CUST. SERV.	OFFICE	3'-0"	7'-0"	1 3/4"	-	-		C	WD				
105A	CUST. SERV.	WORKROOM	3'-0"	7'-0"	1 3/4"	-	-		C	WD				
106	WORKROOM	CORR	4'-0"	7'-0"	1 3/4"	-	-		C	WD				
107	CORR	LOBBY	3'-0"	7'-0"	1 3/4"	F	SCW		S	WD				
108	OFFICE	CORR	3'-0"	8'-0"	1 3/4"	G	SCW	GL-3	ST	ALUM.				
109	CORR	EXTERIOR	3'-0"	7'-0"	1 3/4"	G	HM	GL-1	S	HM				
110	CORR	OFFICE	3'-0"	8'-0"	1 3/4"	G	SCW	GL-3	ST	ALUM.				
111	OFFICE	CORR	3'-0"	8'-0"	1 3/4"	G	SCW	GL-3	ST	ALUM.				
112	CORR	OFFICE	3'-0"	8'-0"	1 3/4"	G	SCW	GL-3	ST	ALUM.				
113	JAN.	CORR	3'-0"	7'-0"	1 3/4"	F	HM		S	HM				
114	CLS	CORR	6'-0"	7'-0"	1 3/4"	F	HM		D	HM				
115	CORR	OFFICE	3'-0"	8'-0"	1 3/4"	G	SCW	GL-3	ST	ALUM.				
116	STOR	CLASSROOM	3'-0"	7'-0"	1 3/4"	F	HM		S	HM				
118	CORR	VAULT	3'-0"	7'-0"	1 3/4"	F	HM		S	HM		45		VAULT DOOR
119	MEN	CORR	3'-0"	7'-0"	1 3/4"	F	HM		S	HM				
120	CORR	WOMEN	3'-0"	7'-0"	1 3/4"	F	HM		S	HM				
121	CONFERENCE	CORR	3'-0"	8'-10 15/16"		-	ALUM.	GL-4	-	ALUM.				DOOR BY GLASS WALL SYSTEM MANUF
121A	CONFERENCE	CORR	3'-0"	8'-10 15/16"		-	ALUM.	GL-4	-	ALUM.				DOOR BY GLASS WALL SYSTEM MANUF
122	STORAGE	CORR	3'-0"	7'-0"	1 3/4"	F	SCW		S	WD				
124	CORR	LOBBY	3'-0"	7'-0"	1 3/4"	F	SCW		S	WD				
125	LOBBY	BOARD ROOM	3'-0"	7'-0"	1 3/4"	F	SCW		S	WD				
125A	BOARD ROOM	CORR	3'-0"	7'-0"	1 3/4"	F	SCW		S	WD				
126	CORR	BREAK A	3'-0"	8'-10 15/16"		-	ALUM.		-	ALUM.				DOOR BY GLASS WALL SYSTEM MANUF
128	BREAK A	PATIO A	3'-0"	8'-0"	1 3/4"	SF1	ALUM.	GL-1	-	ALUM.				
129	CORR	OFFICE	3'-0"	8'-0"	1 3/4"	G	SCW	GL-3	ST	ALUM.				
130	TLT	OFFICE	3'-0"	7'-0"	1 3/4"	F	SCW		S	WD				
131	OFFICE	CLS	3'-0"	7'-0"	1 3/8"	F	WD		-	WD				POCKET DOOR
131A	OFFICE	CLS	3'-0"	7'-0"	1 3/8"	F	WD		-	WD				POCKET DOOR
132	OFFICE	CORR	3'-0"	8'-0"	1 3/4"	G	SCW	GL-3	ST	ALUM.				
133	TLT	OFFICE	3'-0"	7'-0"	1 3/4"	F	SCW		S	WD				
134	OFFICE	CORR	3'-0"	8'-0"	1 3/4"	G	SCW	GL-3	ST	ALUM.				
135	OFFICE	CORR	3'-0"	8'-0"	1 3/4"	G	SCW	GL-3	ST	ALUM.				
136	OFFICE	PLOTTER	3'-0"	8'-0"	1 3/4"	G	SCW	GL-3	ST	ALUM.				
136A	CORR	PLOTTER	3'-0"	8'-0"	1 3/4"	G	SCW	GL-3	ST	ALUM.				
137	OFFICE	CORR	3'-0"	8'-0"	1 3/4"	G	SCW	GL-3	ST	ALUM.				
138	CORR	PATIO B	3'-0"	7'-0"	1 3/4"	G	HM	GL-1	S	HM				
138A	EXTERIOR	CORR	3'-0"	7'-0"	1 3/4"	G	HM	GL-1	S	HM				
139	CORR	OFFICE	3'-0"	8'-0"	1 3/4"	G	SCW	GL-3	ST	ALUM.				
140	CORR	OFFICE	3'-0"	8'-0"	1 3/4"	G	SCW	GL-3	ST	ALUM.				
141	OFFICE	CORR	3'-0"	8'-0"	1 3/4"	G	SCW	GL-3	ST	ALUM.				
142	OFFICE	CORR	3'-0"	8'-0"	1 3/4"	G	SCW	GL-3	ST	ALUM.				
144	OFFICE	CORR	3'-0"	8'-0"	1 3/4"	G	SCW	GL-3	ST	ALUM.				
145	CORR	OFFICE	3'-0"	8'-0"	1 3/4"	G	SCW	GL-3	ST	ALUM.				
146	CLASSROOM	CORR	6'-0"	7'-0"	1 3/4"	NV	HM	GL-1	D	HM				
146A	CLASSROOM	CORR	6'-0"	7'-0"	1 3/4"	NV	HM	GL-1	D	HM				
146B	CLASSROOM	PATIO B	3'-0"	7'-0"	1 3/4"	G	HM	GL-1	S	HM				
147	WOMEN	CORR	3'-0"	7'-0"	1 3/4"	F	HM		S	HM				
148	CORR	JAN.	3'-0"	7'-0"	1 3/4"	F	HM		S	HM				
149	MEN	CORR	3'-0"	7'-0"	1 3/4"	F	HM		S	HM				

DOOR, FRAME AND HARDWARE SCHEDULE

SPACE NO. / DOOR DESIGNATION	FROM ROOM	TO ROOM	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICK	DOOR DESCRIPTION TYPE	DOOR DESCRIPTION MAT'L	DOOR DESCRIPTION GLASS	FRAME DESCRIPTION TYPE	FRAME DESCRIPTION MAT'L	FRAME DESCRIPTION DETAILS	FIRE RATING	HARDWARE SETS	REMARKS
150	CORR	BREAK B	6'-0"	7'-0"	1 3/4"	F	HM		D	HM				
151	CLS	BREAK B	3'-0"	7'-0"	1 3/4"	F	HM		S	HM				
152	CLS	BREAK B	3'-0"	7'-0"	1 3/4"	F	HM		S	HM				
153	BREAK B	SHELTER	3'-0"	7'-0"	1 3/4"	F	HM		S	HM		45		FEMA DOOR
153A	SERVICE BAY 2	SHELTER	3'-0"	7'-0"	1 3/4"	F	HM		S	HM		45		FEMA DOOR
153B	EXTERIOR	SHELTER	3'-0"	7'-0"	1 3/4"	F	HM		S	HM		45		FEMA DOOR
154	SHELTER	W. SHOWER	3'-0"	7'-0"	1 3/4"	F	HM		S	HM		45		
155	LOCKER RM	SERVICE BAY 2	3'-0"	7'-0"	1 3/4"	F	HM		S	HM		45		
155A	RESTROOM	ADA	3'-0"	7'-0"	1 3/4"	F	HM		S	HM				UNDERCUT 1"
155B	TOILET	RESTROOM	2'-6"	7'-0"	1 3/4"	F	HM		S	HM				UNDERCUT 1"
155C	TOILET	RESTROOM	3'-0"	7'-0"	1 3/4"	F	HM		S	HM				UNDERCUT 1"
155D	TOILET	RESTROOM	3'-0"	7'-0"	1 3/4"	F	HM		S	HM				UNDERCUT 1"
155E	TOILET	RESTROOM	3'-0"	7'-0"	1 3/4"	F	HM		S	HM				UNDERCUT 1"
155F	TOILET	RESTROOM	3'-0"	7'-0"	1 3/4"	F	HM		S	HM				UNDERCUT 1"
156	RESTROOM	SHOWER	3'-0"	7'-0"	1 3/4"	F	HM		S	HM				
157	RESTROOM	JAN.	3'-0"	7'-0"	1 3/4"	F	HM		S	HM				
158	SERVICE BAY 2	LOCKER RM	3'-0"	7'-0"	1 3/4"	F	HM		S	HM		45		
159	CLS	SERVICE BAY 2	3'-0"	7'-0"	1 3/4"	F	HM		S	HM		45		
160	STORAGE	SERVICE BAY 1	6'-0"	7'-0"	1 3/4"	F	HM		D	HM				
161A	CORR	SERVICE BAY 1	3'-0"	7'-0"	1 3/4"	F	HM		S	HM		45		
162	EXTERIOR	SERVICE BAY 2	3'-0"	7'-0"	1 3/4"	NV	HM	GL-1	S	HM				
162A	SERVICE BAY 2	EXTERIOR	3'-0"	7'-0"	1 3/4"	NV	HM	GL-1	S	HM				
163	EXTERIOR	SERVICE BAY 3	3'-0"	7'-0"	1 3/4"	NV	HM	GL-1	S	HM				
163A	SERVICE BAY 3	EXTERIOR	3'-0"	7'-0"	1 3/4"	NV	HM	GL-1	S	HM				
164	EXTERIOR	SERVICE BAY 4	3'-0"	7'-0"	1 3/4"	NV	HM	GL-1	S	HM				
164A	SERVICE BAY 4	EXTERIOR	3'-0"	7'-0"	1 3/4"	NV	HM	GL-1	S	HM				
165	SERVICE BAY 5	EXTERIOR	3'-0"	7'-0"	1 3/4"	NV	HM	GL-1	S	HM				
166	EXTERIOR	MECHANIC SHOP	3'-0"	7'-0"	1 3/4"	NV	HM	GL-1	S	HM				
171	RISER	EXTERIOR	3'-0"	7'-0"	1 3/4"	NV	HM	GL-1	S	HM				
172	STOR	SERVICE BAY 1	3'-0"	7'-0"	1 3/4"	F	HM		S	HM		45		
174	SERVICE BAY 1	EXTERIOR	8'-0"	8'-0"				OH						
175	SERVICE BAY 1	EXTERIOR	3'-0"	7'-0"	1 3/4"	NV	HM	GL-1	S	HM				
200	CATWALK	MEZZANINE	3'-0"	7'-0"	1 3/4"	F	HM		S	HM		45		
200B	CATWALK	MEZZANINE	3'-0"	7'-0"	1 3/4"	F	HM		S	HM		45		
201	MEZZANINE	IT	3'-0"	7'-0"	1 3/4"	F	HM		S	HM				
SB-2A	SERVICE BAY 2	EXTERIOR	14'-0"	14'-0"		OH								
SB-2B	SERVICE BAY 2	EXTERIOR	14'-0"	14'-0"		OH								
SB-3A	SERVICE BAY 3	EXTERIOR	14'-0"	14'-0"		OH								
SB-3B	SERVICE BAY 3	EXTERIOR	14'-0"	14'-0"		OH								
SB-4A	SERVICE BAY 4	EXTERIOR	14'-0"	14'-0"		OH								
SB-4B	SERVICE BAY 4	EXTERIOR	14'-0"	14'-0"		OH								
SB-5A	MECHANIC SHOP	EXTERIOR	14'-0"	14'-0"		OH								
SB-5B	SERVICE BAY 5	EXTERIOR	14'-0"	14'-0"		OH								

DOOR ABBREVIATION LEGEND

HM	HOLLOW METAL
SCW	SOLID CORE WOOD
TEMP	TEMPERED
PR	PAIR
ALUM	ALUMINUM

GLASS TYPE LEGEND

GL-1 — 1" INSULATED GLAZING UNIT - **TEMPERED**
BASIS OF DESIGN: GUARDIAN GLASS, SUNGUARD SN 68 ON ULTRACLEAR
VLT: 71%, SHGC: 0.39 REFL: 11%

GL-2 — 1" INSULATED GLAZING UNIT - SAME AS GL-1 TEMPERING NOT REQUIRED

GL-3 — 1/4" CLEAR INTERIOR GLAZING UNIT - **TEMPERED**

GL-4 — 10mm CLEAR INTERIOR GLAZING UNIT - **TEMPERED**

STOREFRONT

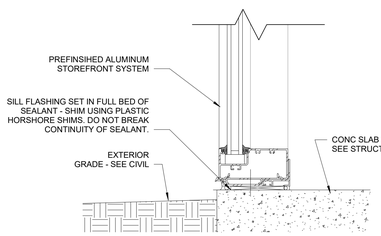
EXTERIOR ALUMINUM STOREFRONT SYSTEM
TYPE: 2" X 4 1/2" THERMALLY BROKEN - 1" GLAZING UNIT FRONT GLASS PLANE
FINISH: SF-1 PREFINISH BLACK ANODIZED ALUMINUM

INTERIOR ALUMINUM STOREFRONT SYSTEM
TYPE: 1 3/4" x 4 1/2" NON-THERMAL - 1/4" GLASS CENTER GLASS PLANE
FINISH: SF-1 PREFINISH BLACK ANODIZED ALUMINUM

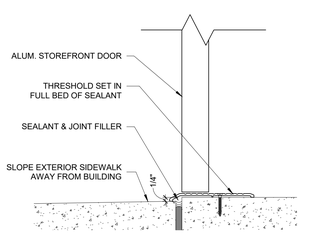
INTERIOR GLASS WALL SYSTEM
TYPE: TEKNION TEK VUE SYSTEM
FINISH: SF-1 PREFINISH BLACK ANODIZED ALUMINUM

NOTES:

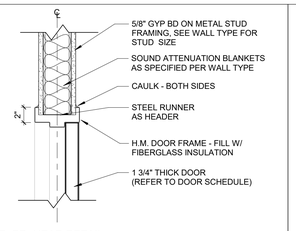
1. OVERALL WINDOW DIMENSIONS ARE TO ROUGH OPENING DIMENSIONS, U.N.O.
2. SEE DOOR SCHEDULE FOR STOREFRONT DOOR INFORMATION.
3. SEE BUILDING ELEVATIONS FOR STOREFRON FINISH INFORMATION.
4. SEE SPECIFICATIONS FOR DETAILED DESCRIPTION OF THE VARIOUS GLAZING TYPES.



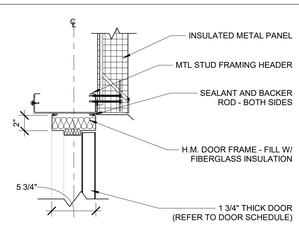
1 STOREFRONT SILL
3" = 1'-0"



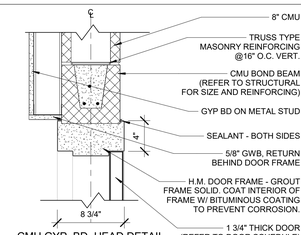
2 STOREFRONT THRESHOLD
3" = 1'-0"



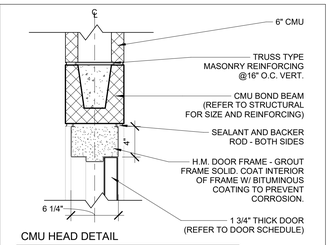
GYP. BD. HEAD DETAIL
SCALE 1 1/2" = 1'-0"



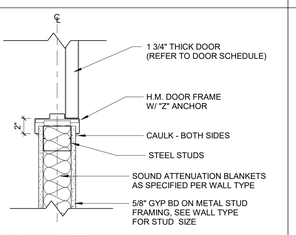
IMP HEAD DETAIL
SCALE 1 1/2" = 1'-0"



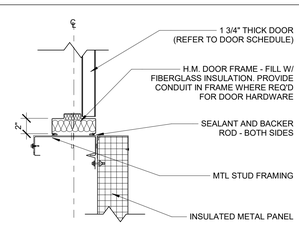
CMU GYP. BD. HEAD DETAIL
SCALE 1 1/2" = 1'-0"



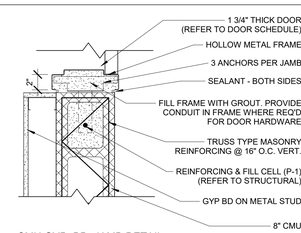
CMU HEAD DETAIL
SCALE 1 1/2" = 1'-0"



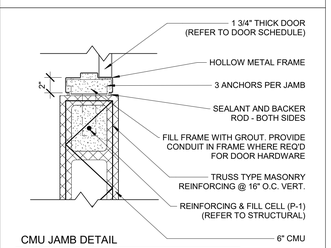
GYP. BD. JAMB DETAIL
SCALE 1 1/2" = 1'-0"



IMP JAMB DETAIL
SCALE 1 1/2" = 1'-0"



CMU GYP. BD. JAMB DETAIL
SCALE 1 1/2" = 1'-0"



CMU JAMB DETAIL
SCALE 1 1/2" = 1'-0"



10/27/2026 12:55:13 PM
C:\Users\jason.wisniewski_2024_ARCH\Documents\23031-A Jasper Waterworks_2024_ARCH.rvt
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STATE OF ALABAMA
TAMMY DANIELS COHEN
REGISTRATION NO. 4168
ARCHITECT
BIRMINGHAM ALABAMA
REGISTERED ARCHITECT

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
10/28/26

PRINTED / REVISIONS

#	DESCRIPTION	DATE

SHEET TITLE:
DOOR & STOREFRONT SCHEDULE

SHEET NUMBER:
A901

VENTILATION CALCULATIONS

Space	Area (ft²)	EMO (P/1000 ft²)	Occupancy (People)	(cfm/person)	(cfm)	(cfm/ft²)	(cfm)	OA Required (cfm)	EXHAUST AIR REQUIREMENTS (cfm/ft²)	(cfm)	(ACH)	(cfm)	EA Required (cfm)
101 Lobby	621	10	7	5	35	0.06	38	73	0	0	0	0	0
102 Toilet	60	0	0	0	0	0	0	0	0	0	0	0	70
103 CS Room	56	5	1	5	5	0.06	4	9	0	0	0	0	0
104 CS Office	66	5	1	5	5	0.06	4	9	0	0	0	0	0
105 Customer Service	263	5	2	5	10	0.06	16	26	0	0	0	0	0
106 Workroom	340	5	2	5	10	0.06	21	31	0	0	0	0	0
Lobby Corridor North	40	0	0	0	0	0.06	3	3	0	0	0	0	0
Lobby Corridor South	40	0	0	0	0	0.06	3	3	0	0	0	0	0
107/109 Corridor	418	0	0	0	0	0.06	26	26	0	0	0	0	0
108 HR AP/PAY Office	175	5	1	5	5	0.06	11	16	0	0	0	0	0
110 BM Office	244	5	2	5	10	0.06	15	25	0	0	0	0	0
111 Sharron Office	179	5	1	5	5	0.06	11	16	0	0	0	0	0
112 BJ Office	178	5	1	5	5	0.06	11	16	0	0	0	0	0
113 Janitor	13	0	0	0	0	0.06	1	1	0	0	0	0	0
114 Closet	17	0	0	0	0	0.06	2	2	0	0	0	0	0
115 Dispatch	194	5	1	5	5	0.06	12	17	0	0	0	0	0
116 Storage	51	0	0	0	0	0.12	7	7	0	0	0	0	0
117/143 Corridor	321	0	0	0	0	0.06	20	20	0	0	0	0	0
118 Vault	170	0	0	0	0	0.12	21	21	0	0	0	0	0
119 Men	158	0	0	0	0	0	0	0	0	0	0	0	140
120 Women	158	0	0	0	0	0	0	0	0	0	0	0	140
121 Conference	322	50	17	5	85	0.06	20	105	0	0	0	0	0
122 Storage	113	0	0	0	0	0.12	14	14	0	0	0	0	0
123 Corridor	330	0	0	0	0	0.06	20	20	0	0	0	0	0
123/124 Corridor	370	0	0	0	0	0.06	23	23	0	0	0	0	0
125 Board Room	667	50	34	5	170	0.06	41	211	0	0	0	0	0
126 Break A	304	50	16	5	80	0.12	37	117	0	0	0	0	0
127 Closet	14	0	0	0	0	0.06	1	1	0	0	0	0	0
129 GM Office	245	5	2	5	10	0.06	15	25	0	0	0	0	0
130 TLT	37	0	0	0	0	0	0	0	0	0	0	0	70
131 Closet	68	0	0	0	0	0.06	5	5	0	0	0	0	0
132 AGM Office	238	5	2	5	10	0.06	15	25	0	0	0	0	0
133 TLT	37	0	0	0	0	0	0	0	0	0	0	0	70
134 Office A1	142	5	1	5	5	0.06	9	14	0	0	0	0	0
135 Mapping	319	5	2	5	10	0.06	20	30	0	0	0	0	0
136 Plotter	158	4	1	5	5	0.06	10	15	0.5	80	0	0	80
137 Inventory Office	183	5	1	5	5	0.06	11	16	0	0	0	0	0
138 Corridor	193	0	0	0	0	0.06	12	12	0	0	0	0	0
139 Construction Office	192	5	1	5	5	0.06	12	17	0	0	0	0	0
140 Sewer	197	5	1	5	5	0.06	12	17	0	0	0	0	0
141 Maintenance	264	5	2	5	10	0.06	16	26	0	0	0	0	0
142 Dist.	194	5	1	5	5	0.06	12	17	0	0	0	0	0
143 Corridor	191	0	0	0	0	0.06	12	12	0	0	0	0	0
144 Office	195	5	1	5	5	0.06	12	17	0	0	0	0	0
145 Office	195	5	1	5	5	0.06	12	17	0	0	0	0	0
146 Classroom Corridor	359	0	0	0	0	0.06	22	22	0	0	0	0	0
147 Women	126	0	0	0	0	0	0	0	0	0	0	0	70
148 Janitor	20	0	0	0	0	0.06	2	2	0	0	0	0	50
149 Men	133	0	0	0	0	0	0	0	0	0	0	0	140
150 Break B	990	50	50	5	250	0.12	119	369	0	0	0	0	0
151 Closet	10	0	0	0	0	0.06	1	1	0	0	0	0	0
152 Closet	12	0	0	0	0	0.06	1	1	0	0	0	0	0
154 W. Shower	154	0	0	0	0	0	0	0	0	0	0	0	50
155 Restroom	517	0	0	0	0	0	0	0	0	0	0	0	420
156 Shower	77	0	0	0	0	0	0	0	0	0	0	0	50
157 Janitor	23	0	0	0	0	0.06	2	2	0	0	0	0	50
158 Locker Room	323	0	0	0	0	0	0	0	0.25	85	0	0	85
159 Closet	19	0	0	0	0	0.06	2	2	0	0	0	0	0
160 Storage	97	0	0	0	0	0.12	12	12	0	0	0	0	0
Totals	12,071							1,488					1,485

Note: O.A. for restrooms provided by transfer air per paragraph 403.2.2 of the IMC.

GAS FIRED FURNACE SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NO.	SERVICE	NOMINAL TONS	CFM	O.A. CFM	E.S.P. (IN. W.C.)	COOLING CAP. (MBH) TOTAL	SENSIBLE	AMBIENT TEMP. (°F)	GAS HEAT (MBH) INPUT	OUTPUT	ELECTRICAL UNIT MCA	UNIT MOCP	SUPPLY FAN H.P.	(VOLTS/PH/HZ)	DISCONNECT	NOTES
F-1	CARRIER 59TP7A100V21--20	SW EXT. OFFICES	5	2000	120	0.5	57.8	42.7	95	100/65	97/63	13.2	20	–	120/1/60	BY ELEC	97% EFFICIENT CONDENSING HORIZONTAL FURNACE, COOLING COIL MATCHED WITH CU-1, SEE DETAIL
F-2	CARRIER 59TP7A100V21--20	LOBBY/CUST. SVC.	5	2000	160	0.5	57.8	42.7	95	100/65	97/63	13.2	20	–	120/1/60	BY ELEC	97% EFFICIENT CONDENSING HORIZONTAL FURNACE, COOLING COIL MATCHED WITH CU-2, SEE DETAIL
F-3	CARRIER 59TP7A100V21--20	NORTH EXT. OFFICES	5	2000	230	0.5	57.8	42.7	95	100/65	97/63	13.2	20	–	120/1/60	BY ELEC	97% EFFICIENT CONDENSING HORIZONTAL FURNACE, COOLING COIL MATCHED WITH CU-3, SEE DETAIL
F-4	CARRIER 59TP7A100V21--20	INT. OFFICES (BACK)	5	2000	180	0.5	57.8	42.7	95	100/65	97/63	13.2	20	–	120/1/60	BY ELEC	97% EFFICIENT CONDENSING HORIZONTAL FURNACE, COOLING COIL MATCHED WITH CU-4, SEE DETAIL
F-5	CARRIER 59TP6C100V21--20	BOARD ROOM	3	1200	215	0.5	37.1	27.6	95	60/39	58/38	10.1	15	–	120/1/60	BY ELEC	97% EFFICIENT CONDENSING HORIZONTAL FURNACE, COOLING COIL MATCHED WITH CU-5, SEE DETAIL
F-6	CARRIER 59TP6C100V21--20	INT. CONFERENCE	3	1200	200	0.5	37.1	27.6	95	60/39	58/38	10.1	15	–	120/1/60	BY ELEC	97% EFFICIENT CONDENSING HORIZONTAL FURNACE, COOLING COIL MATCHED WITH CU-6, SEE DETAIL
F-7	CARRIER 59TP6C100V21--20	BREAK B INT.	3	1200	200	0.5	37.1	27.6	95	60/39	58/38	10.1	15	–	120/1/60	BY ELEC	97% EFFICIENT CONDENSING HORIZONTAL FURNACE, COOLING COIL MATCHED WITH CU-7, SEE DETAIL
F-8	CARRIER 59TP6C100V21--20	BREAK B EXT.	3	1200	200	0.5	37.1	27.6	95	60/39	58/38	10.1	15	–	120/1/60	BY ELEC	97% EFFICIENT CONDENSING HORIZONTAL FURNACE, COOLING COIL MATCHED WITH CU-8, SEE DETAIL
F-9	CARRIER 59TP6C100V21--20	CLASSROOM	4	1,600	485	0.5	47.5	35.1	95	80/52	76/50	13.1	20	–	120/1/60	BY ELEC	97% EFFICIENT CONDENSING HORIZONTAL FURNACE, COOLING COIL MATCHED WITH CU-9, SEE DETAIL
F-10	CARRIER 59TP6C100V21--20	CLASSROOM	4	1,600	485	0.5	47.5	35.1	95	80/52	76/50	13.1	20	–	120/1/60	BY ELEC	97% EFFICIENT CONDENSING HORIZONTAL FURNACE, COOLING COIL MATCHED WITH CU-10, SEE DETAIL

1. COOLING CAPACITY BASED ON 80°F EDB, 67°F EWB, 95°F AMBIENT CONDITIONS
2. STAINLESS STEEL HEAT EXCHANGER
3. 2-STAGE HEATING CAPACITY
4. PROVIDE PROGRAMMABLE ROOM THERMOSTAT FOR EACH UNIT
5. APPROVED MANUFACTURERS ARE CARRIER, DAIKIN, JCI/YORK, AND TRANE.

CONDENSING UNIT SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NO.	NOMINAL COOLING CAPACITY	SUCTION TEMP. (°F)	AMBIENT TEMP. (°F)	SEER2	ELECTRICAL UNIT MCA	MOCP (AMPS)	(VOLTS/PH/HZ)	DISCONNECT	MOTOR STARTERS	NOTES
CU-1	CARRIER 26TPA860W003	5 TONS	45	95	15.2	30.5	50	208/1/60	BY ELEC.	BUILT-IN	PAIRED WITH F-1
CU-2	CARRIER 26TPA860W003	5 TONS	45	95	15.2	30.5	50	208/1/60	BY ELEC.	BUILT-IN	PAIRED WITH F-2
CU-3	CARRIER 26TPA860W003	5 TONS	45	95	15.2	30.5	50	208/1/60	BY ELEC.	BUILT-IN	PAIRED WITH F-3
CU-4	CARRIER 26TPA860W003	5 TONS	45	95	15.2	30.5	50	208/1/60	BY ELEC.	BUILT-IN	PAIRED WITH F-4
CU-5	CARRIER 26TPA836W003	3 TONS	45	95	16	20.9	35	208/1/60	BY ELEC.	BUILT-IN	PAIRED WITH F-5
CU-6	CARRIER 26TPA848W003	3 TONS	45	95	16	20.9	35	208/1/60	BY ELEC.	BUILT-IN	PAIRED WITH F-6
CU-7	CARRIER 26TPA848W003	3 TONS	45	95	16	20.9	35	208/1/60	BY ELEC.	BUILT-IN	PAIRED WITH F-7
CU-8	CARRIER 26TPA848W003	3 TONS	45	95	16	20.9	35	208/1/60	BY ELEC.	BUILT-IN	PAIRED WITH F-8
CU-9	CARRIER 26TPA848W003	4 TONS	45	95	16	25.5	40	208/1/60	BY ELEC.	BUILT-IN	PAIRED WITH F-9
CU-10	CARRIER 26TPA848W003	4 TONS	45	95	16	25.5	40	208/1/60	BY ELEC.	BUILT-IN	PAIRED WITH F-10

1. COOLING CAPACITY BASED ON 80°F EDB, 67°F EWB, 95°F AMBIENT CONDITIONS
2. R-454B REFRIGERANT
3. 2-STAGE COOLING CAPACITY
4. APPROVED MANUFACTURERS ARE CARRIER, DAIKIN, JCI/YORK, AND TRANE.

MINI-SPLIT OUTDOOR UNIT SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NO.	AREA SERVED	COOLING CAP. (MBH) TOTAL	AMBIENT TEMP. (°F)	SEER2	HEATING CAPACITY MBH	AMBIENT TEMP. (°F)	HSPF2	ELECTRICAL UNIT MCA	UNIT MOCP	(VOLTS/PH/HZ)	DISCONNECT	NOTES
HP-1	CARRIER 37MARA024AA3	SERVICE RESTROOMS	24.0	95	19	24.0	47	11.0	24	25	208/1/60	BY ELEC.	R-454B, ANTI-SHORT CYCLE TIMER, VARIABLE SPEED
HP-2	CARRIER 37MARA024AA3	SHELTER	24.0	95	19	24.0	47	11.0	24	25	208/1/60	BY ELEC.	R-454B, ANTI-SHORT CYCLE TIMER, VARIABLE SPEED

COOLING CAPACITY IS BASED ON 80°F EDB, 67°F EWB, AND 95°F AMBIENT CONDITIONS.
HEATING CAPACITY IS BASED ON 70°F EDB AND 47°F AMBIENT CONDITIONS.
APPROVED MANUFACTURERS ARE CARRIER/TOSHIBA, DAIKIN AND MITSUBISHI.

MINI-SPLIT INDOOR AIR HANDLING UNIT SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NO.	AREA SERVED	NOMINAL CAP. (MBH)	CFM	O.A. CFM	COOLING CAP. (MBH) TOTAL	SENSIBLE	AMBIENT TEMP. (°F)	HEATING CAP. MBH	ENT. TEMP. (°F)	ELECTRICAL UNIT MCA	UNIT MOCP	(VOLTS/PH/HZ)	DISCONNECT	NOTES
AC-1	CARRIER 45MBDAQ24XH3	SERVICE RESTROOMS	24.0	800	–	24.0	–	95	24.0	70	3.0	–	208/1/60	BY ELEC.	ABOVE-CEILING DUCTED MINI-SPLIT, PROGRAMMABLE ROOM THERMOSTAT
AC-2	CARRIER 45MBDAQ24XH3	SHELTER	24.0	800	–	24.0	–	95	24.0	70	3.0	–	208/1/60	BY ELEC.	ABOVE-CEILING DUCTED MINI-SPLIT, PROGRAMMABLE ROOM THERMOSTAT

ELECTRICAL POWER FED FROM CORRESPONDING OUTDOOR UNIT.
PROVIDE WITH CONDENSATE PUMP.
APPROVED MANUFACTURERS ARE CARRIER/TOSHIBA, DAIKIN AND MITSUBISHI.

EXHAUST FAN SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NO.	CFM	SP (IN. W.C.)	RPM	MAX. SONES	LOCATION	TYPE	DRIVE	VIBRATION ISOLATION TYPE	DEFL. (IN.)	ELECTRICAL MOTOR HP	(VOLTS/PH/HZ)	DISCONNECT	MOTOR STARTER	NOTES
EF-1,2,3,4	GREENHECK AER-20-02-0615-VG	2750	0.43	1351	15.2	WALL	PROPELLER	DIRECT	–	–	1 HP	208/1/60	BUILT-IN	BUILT-IN	SCR SPEED CONTROLLER, GALV. STEEL WHEEL, WALL LOUVER
EF-5	GREENHECK SQ-7-M1-VG	700	0.5	2566	12.6	VERTICAL INLINE	INLINE	DIRECT	–	–	1/3 HP	120/1/60	BUILT-IN	BUILT-IN	SCR SPEED CONTROLLER, GALV. STEEL HOUSING, EC MOTOR, INTERLOCKED WITH LIGHTS
CEF-A	GREENHECK SP-A250	150	0.5	921	3.5	CEILING	CENTRIFUGAL	DIRECT	–	–	44W	120/1/60	BUILT-IN	BUILT-IN	SCR SPEED CONTROLLER, GALV. STEEL WHEEL, MDW MOTION SENSOR
CEF-B	GREENHECK SP-A390	250	0.5	1149	3.5	CEILING	CENTRIFUGAL	DIRECT	–	–	83W	120/1/60	BUILT-IN	BUILT-IN	SCR SPEED CONTROLLER, GALV. STEEL WHEEL, MDW MOTION SENSOR
CEF-C	GREENHECK SP-A250	50	0.5	707	1.5	CEILING	CENTRIFUGAL	DIRECT	–	–	33W	120/1/60	BUILT-IN	BUILT-IN	SCR SPEED CONTROLLER, GALV. STEEL WHEEL, WALL SWITCH

APPROVED MANUFACTURERS ARE GREENHECK, BREIDERT, COOK AND TWIN CITY.

ENERGY RECOVERY VENTILATOR (ERV) SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NO.	OUTSIDE AIR CONDITIONS (°F) EDB	EWB	LDB	LWB	O.A. FAN CFM	E.S.P.	MOTOR HP	RPM	EXHAUST AIR CONDITIONS (°F) EDB	EWB	LDB	LWB	EXHAUST FAN CFM	E.S.P.	MOTOR HP	RPM	FILTERS	ELECTRICAL UNIT MCA	UNIT MOCP	(VOLTS/PH/HZ)	DISCONNECT	MOTOR STARTERS	NOTES
ERV-1	GREENHECK ECV-10H-VG-P	94	75	82.4	69.1	980	0.5	3/4	1367	75	63	92	76	880	0.5	3/4	1348	MERV 8	9.9	15	208/1/60	BY ELEC.	FVNR	INDOOR UNIT, SINGLE POINT ELEC. CONNECTION, VFD, CO2 SENSOR FOR MODULATING CONTROL, FOIL-FACE INSULATION

APPROVED MANUFACTURERS INCLUDE GREENHECK, AIR EXCHANGE, DES CHAMPS AND VENMAR

AIR DEVICE SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NO.	TYPE	BORDER	CONSTRUCTION	SIZE (IN.) NECK	FACE	FINISH	ACCESSORIES EQUALIZING GRID	OBD	FIRE DAMPER	EXTRACTOR	NOTES
CDA	TITUS OMNI-AA-01	SQUARE PLAQUE FACE	SURFACE MOUNT	ALUMINUM	AS NOTED	24x24	WHITE	YES	NO	AS NOTED	NO	INSULATED BACK
CDB	TITUS OMNI-AA-01	SQUARE PLAQUE FACE	SURFACE MOUNT	ALUMINUM	AS NOTED	12x12	WHITE	YES	NO	AS NOTED	NO	INSULATED BACK
SRA	TITUS 300 RS	SIDEWALL DOUBLE DEFLECTION	SURFACE MOUNT	STEEL	AS NOTED	--	COORD.	NO	YES	AS NOTED	NO	SHORT FRONT BLADES
RGA	TITUS 350 RL	FIXED BLADE 35°, 3/4" CENTERS	SURFACE MOUNT	STEEL	AS NOTED	--	WHITE	--	NO	AS NOTED	--	--
LDA	TITUS TBDI-30	PLENUM SLOT TWO 3/4" SLOTS	SURFACE MOUNT	STEEL	AS NOTED	48"	WHITE	--	--	NO	--	INSULATED PLENUM, PATTERN CONTROLLERS, FLAT BLACK FINISH ON INTERIOR PARTS, INCLUDE PLASTER FRAME
LRA	TITUS TBR-30	PLENUM SLOT FOUR 1" SLOTS	SURFACE MOUNT	STEEL	AS NOTED	48"	WHITE	--	--	AS NOTED	--	INSULATED PLENUM, FLAT BLACK FINISH ON INTERIOR PARTS, INCLUDE PLASTER FRAME
EGA	TITUS 50F	EGGCRATE 1/2" GRID	SURFACE MOUNT	ALUMINUM	AS NOTED	--	WHITE	--	YES	AS NOTED	--	--

APPROVED MANUFACTURERS ARE TITUS, METALAIRE, PRICE, AND TUTTLE & BAILEY.

INFRARED RADIANT HEATER SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NO.	SERVICE	HEATING CAPACITY INPUT (MBH) HIGH/LOW	ELECTRICAL UNIT MCA	UNIT MOCP	(VOLTS/PH/HZ)	DISCONNECT	NOTES
RH-A	SOLARONICS MTS-85/65N20	SERVICE AREA	85/65	2.3	–	120/1/60	BY ELEC.	20' FT. TUBE LENGTH, BLACK STEEL HEAT EXCHANGER, ALUMINUM REFLECTOR, REMOTE THERMOSTAT
RH-B	SOLARONICS STG-40/10AN	MECHANIC SHOP	40	3.0	–	120/1/60	BY ELEC.	10' FT. TUBE LENGTH, BLACK STEEL HEAT EXCHANGER, ALUMINUM REFLECTOR, REMOTE THERMOSTAT

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3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER: 23031-A

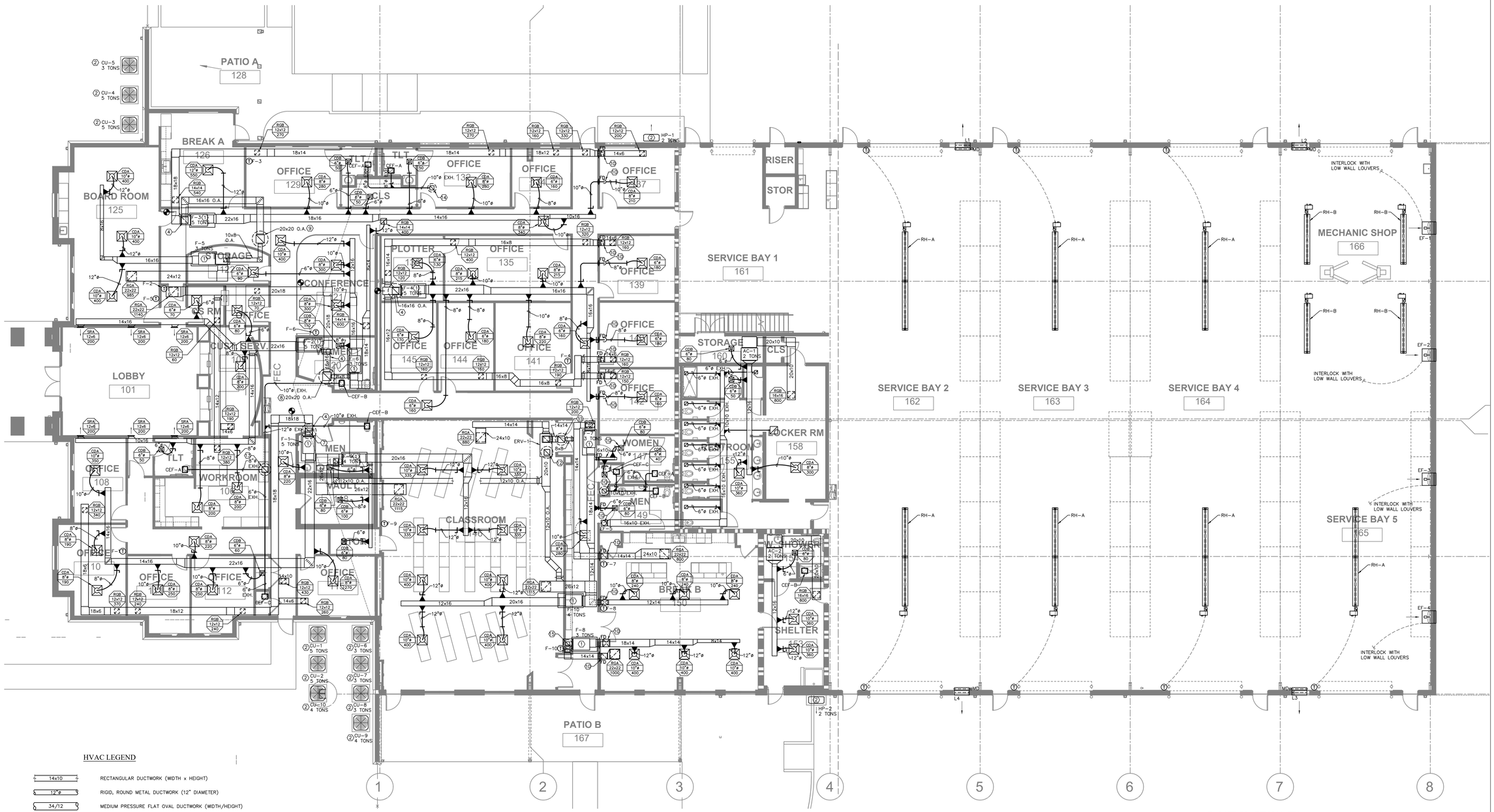
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DESCRIPTION DATE

SHEET TITLE: HVAC SCHEDULES, SPECIFICATIONS, AND CALCULATIONS

SHEET NUMBER: M100

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HVAC LEGEND

14x10	RECTANGULAR DUCTWORK (WIDTH x HEIGHT)
12"ø	RIGID, ROUND METAL DUCTWORK (12" DIAMETER)
34/12	MEDIUM PRESSURE FLAT OVAL DUCTWORK (WIDTH/HEIGHT)
	FLEXIBLE DUCTWORK
	EXISTING DUCTWORK
	MANUAL VOLUME DAMPER
FD	FIRE DAMPER AND ACCESS DOOR
	45° BRANCH CONNECTION WITH VOLUME DAMPER
	CONICAL SPIN-IN FITTING WITH BUTTERFLY DAMPER
	SQUARE-TO-ROUND DUCT TRANSITION
	DUCT TRANSITION (30° MAXIMUM)
	RECTANGULAR 90° ELBOW WITH TURNING VANES
	ROUND 90° DUCT ELBOW
R	REFRIGERANT PIPING (SUCTION AND LIQUID LINE)
D	CONDENSATE DRAIN PIPING
	EXIST. PIPING TO BE REMOVED
	BALL VALVE
	GATE VALVE
T	REMOTE PROGRAMMABLE ROOM THERMOSTAT
S	ROOM TEMPERATURE SENSOR
C	DIGITAL CO2 SENSOR
	DUCT SMOKE DETECTOR PROVIDED BY MECHANICAL
(X)	EXISTING

HVAC FLOOR PLAN - PART A&B

1/8" = 1'-0"

GENERAL NOTES

THESE NOTES APPLY TO ALL HVAC DRAWINGS

1. DRAWINGS ARE DIAGRAMMATIC ONLY AND DO NOT SHOW ALL DETAILS, OFFSETS NOR CHANGES IN ELEVATIONS NECESSARY FOR COMPLETE INSTALLATION.
2. COORDINATE WORK WITH OTHER TRADES. PROVIDE NECESSARY OFFSETS IN DUCTWORK AS REQUIRED TO ACCOMMODATE WORK.
3. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. INCREASE OVERALL DIMENSIONS AS REQUIRED TO ALLOW FOR INSULATION THICKNESS.
4. REFRIGERANT PIPING SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE HEAT PUMP UNIT MANUFACTURER'S RECOMMENDATIONS. PROVIDE BI-FLOW FILTER-DRIER AND SIGHT GLASS FOR EACH UNIT PER MANUFACTURER'S INSTRUCTIONS.
5. PROVIDE CONDENSATE DRAIN LINE FROM EACH AHU PER MANUFACTURER'S INSTRUCTIONS. DISCHARGE INTO UTILITY SINK IN WORK ROOM. PROVIDE CONDENSATE PUMPS WHERE REQUIRED.
6. TRANSITION TO EQUIPMENT CONNECTIONS AS REQUIRED.
7. FLEXIBLE DUCT RUNOUTS SHALL NOT EXCEED 6 FT. IN LENGTH. BENDS SHALL BE GRADUAL TO PREVENT KINKING AND RESTRICTING FREE AREA.
8. DUCTWORK AND/OR PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL PANELS.
9. COORDINATE DUCT ELEVATIONS WITH ARCHITECT'S CEILING PLANS. MAINTAIN ADEQUATE CLEARANCE TO ALLOW FOR CEILING AND LIGHTING INSTALLATION AT THE SPECIFIED CEILING HEIGHTS.
10. MAINTAIN MIN. 10 FT. CLEARANCE BETWEEN ALL AIR INTAKES AND ALL EXHAUST DISCHARGE LOCATIONS AND/OR PLUMBING VENTS.
11. ALL SUPPLY AND RETURN DUCTWORK SHALL BE INSTALLED ABOVE CEILING. RUN DUCTWORK IN TRUSS SPACE WHERE REQUIRED TO MAINTAIN CEILING HEIGHTS AND CLEARANCES.

TAGGED DRAWING NOTES

1. INSTALL FURNACE IN ATTIC SPACE ON MECHANICAL PLATFORM. COORDINATE WITH STRUCTURAL DWGS. SEE HORIZONTAL FURNACE DETAILS. MAINTAIN ALL REQUIRED SERVICE AND AIRFLOW CLEARANCES. EXTEND REFRIGERANT PIPING CONCEALED TO CORRESPONDING OUTDOOR UNIT ACCORDING TO MANUFACTURER'S INSTRUCTIONS. EXTEND FURNACE VENT AND COMBUSTION AIR PIPING UP TO CONCENTRIC VENT TERMINATION ON ROOF PER MANUFACTURER'S INSTRUCTIONS. SEE DETAIL.
2. MOUNT OUTDOOR UNIT SECURELY ON MIN 6" HIGH CONCRETE PAD. (TYP)
3. O.A. DUCT WITH TWO-POSITION MOTORIZED DAMPER DOWN TO RETURN PLENUM. SEE AHU DETAIL.
4. PROVIDE MODULATING ELECTRIC MOTORIZED DAMPERS IN RETURN AND O.A. DUCTS INTERLOCKED WITH ECONOMIZER CONTROLLER.
5. 10x10 EXHAUST DUCT UP THROUGH MEZZANINE FLOOR TO GRAVITY RELIEF HOOD ON ROOF CURB, GREENHECK GRSR-12 OR EQUAL (450 CFM.) INCLUDE FIRE DAMPER AT FIRE-RATED FLOOR PENETRATION. SEE DETAIL.
6. 14x12 EXHAUST DUCT UP THROUGH MEZZANINE FLOOR TO EF-5. INCLUDE FIRE DAMPER AT FIRE-RATED FLOOR PENETRATION. SEE DETAIL. MOUNT INLINE EXHAUST FAN, EF-5, ON MEZZANINE WALL FOR SERVICE ACCESS. CONTINUE 14x12 EXH. DUCT UP FROM FAN TO GRAVITY RELIEF HOOD ON ROOF CURB, GREENHECK GRSR-15 OR EQUAL (700 CFM.)
7. 16x16 O.A. UP TO GRAVITY INTAKE HOOD ON ROOF CURB. GREENHECK GRS-24 OR EQUAL (2000 CFM). SEE DETAIL.
8. 20x20 O.A. UP TO GRAVITY INTAKE HOOD ON ROOF CURB. GREENHECK GRS-24 OR EQUAL (2200 CFM). SEE DETAIL.
9. 20x20 O.A. UP TO GRAVITY INTAKE HOOD ON ROOF CURB. GREENHECK GRS-24 OR EQUAL (2215 CFM). SEE DETAIL.
10. INCLUDE FIRE DAMPER AT MEZZANINE FLOOR PENETRATION. SEE DETAIL.
11. 16x16 O.A. UP TO GRAVITY INTAKE HOOD ON ROOF CURB. GREENHECK GRSI-18 OR EQUAL (1170 CFM). SEE DETAIL.
12. 14x14 EXH. UP TO GRAVITY RELIEF HOOD ON ROOF CURB. GREENHECK GRSR-16 OR EQUAL (880 CFM). SEE DETAIL.
13. 14x14 EXH. UP TO GRAVITY RELIEF HOOD ON ROOF CURB. GREENHECK GRSR-15 OR EQUAL (700 CFM). SEE DETAIL.
14. 10x10 EXH. UP TO GRAVITY RELIEF HOOD ON ROOF CURB. GREENHECK GRSR-10 OR EQUAL (300 CFM). SEE DETAIL.
15. 10x10 O.A. UP TO GRAVITY INTAKE HOOD ON ROOF CURB. GREENHECK GRSI-10 OR EQUAL (200 CFM). SEE DETAIL.

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JASPER, AL 35501

JOB NUMBER: 23031-A

DATE: 06/19/26

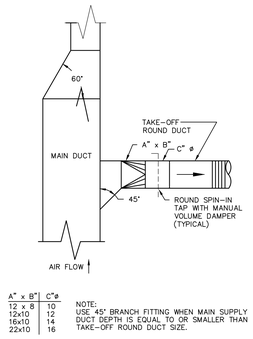
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#	DESCRIPTION	DATE

SHEET TITLE: HVAC FLOOR PLAN

SHEET NUMBER: M200

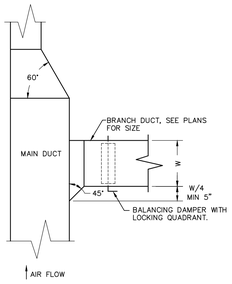
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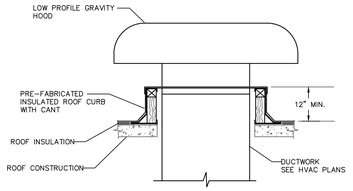
A" x B"	C"ø
12 x 8	10
12x10	12
16x10	14
22x10	16

NOTE:
USE 45° BRANCH FITTING WHEN MAIN SUPPLY DUCT DEPTH IS EQUAL TO OR SMALLER THAN TAKE-OFF ROUND DUCT SIZE.

45° BRANCH DUCT CONNECTION DETAIL
ROUND RUNOUT
NO SCALE



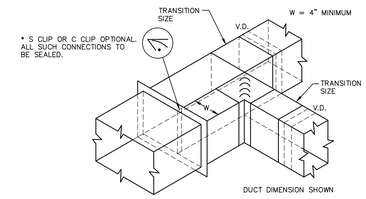
45° BRANCH DUCT CONNECTION DETAIL
RECTANGULAR BRANCH
NO SCALE



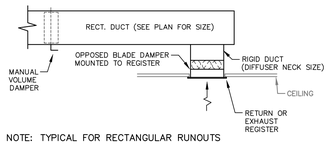
GENERAL NOTES:

1. PREFABRICATED ROOF CURB INSULATION SHALL BE NOT LESS THAN 1 1/2 IN. THICK.
2. SEE SPECIFICATIONS FOR HOOD PERFORMANCE CRITERIA.
3. REFER TO ARCHITECTURAL DRAWINGS FOR ROOFING REQUIREMENTS INCLUDING INSULATION, FLASHING, ETC.
4. SECURE HOOD TO ROOF CURB IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE.

GRAVITY ROOF HOOD DETAIL
NO SCALE

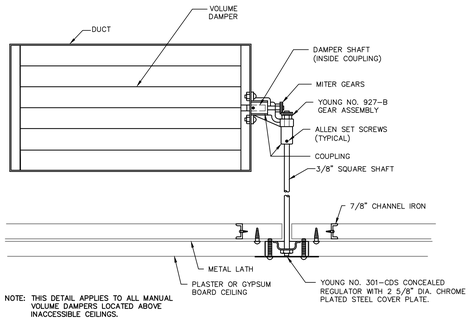


PROPORTIONAL SPLITTER DETAIL
NO SCALE



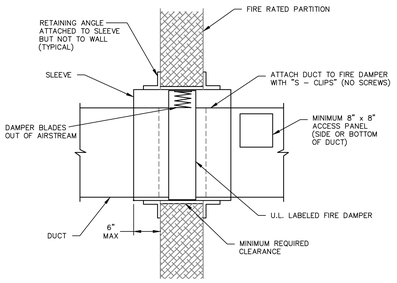
NOTE: TYPICAL FOR RECTANGULAR RUNOUTS

RETURN AND EXHAUST RUN-OUT DETAIL
NO SCALE



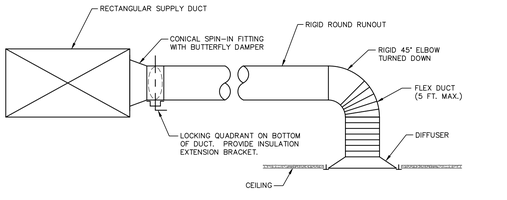
NOTE: THIS DETAIL APPLIES TO ALL MANUAL VOLUME DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS.

CONCEALED DAMPER REGULATOR DETAIL
MANUAL VOLUME DAMPERS
NO SCALE

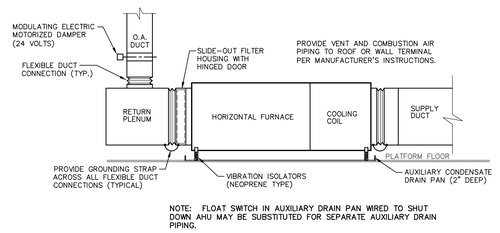


FIRE DAMPER INSTALLATION DETAIL
NO SCALE

NOTE:
REFER TO SMACNA "FIRE DAMPER GUIDE" FOR REQUIRED DIMENSIONS, METAL GAUGES, CLEARANCES, ACCEPTABLE DUCT JOINTS, AND OTHER SPECIFICATIONS.

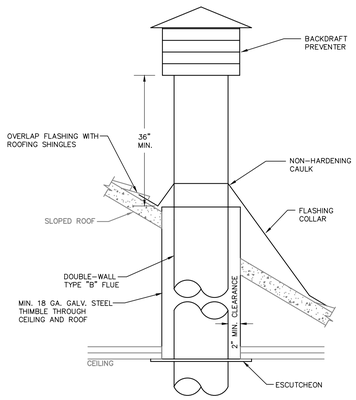


DIFFUSER RUN-OUT DETAIL
NO SCALE

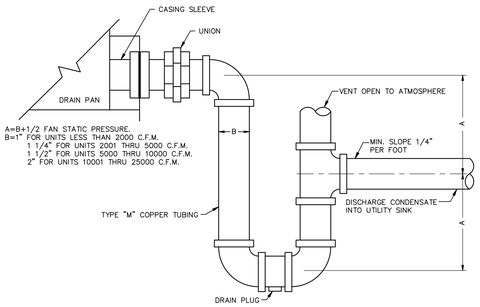


NOTE: FLOAT SWITCH IN AUXILIARY DRAIN PAN WIRED TO SHUT DOWN AHU MAY BE SUBSTITUTED FOR SEPARATE AUXILIARY DRAIN PIPING.

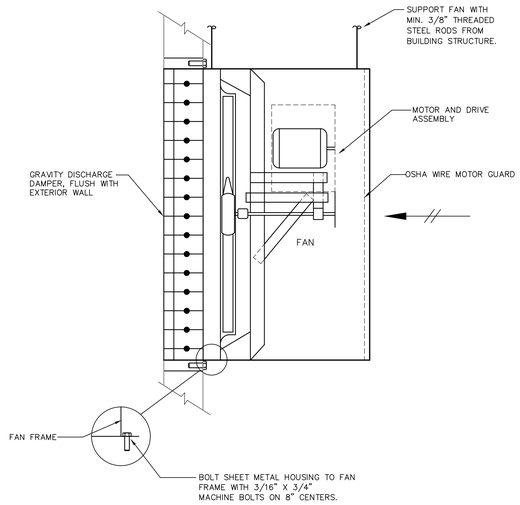
HORIZONTAL FURNACE DETAIL
NO SCALE



TYPE B VENT THRU ROOF DETAIL
NO SCALE

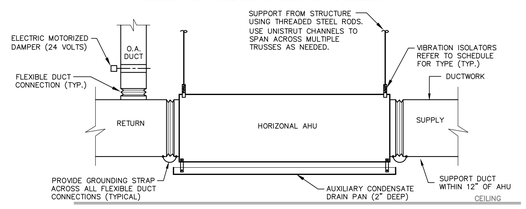


AIR CONDITIONING UNIT DRAIN TRAP DETAIL
NO SCALE



WALL EXHAUST FAN DETAIL
NO SCALE

NOTE:
IT IS THE RESPONSIBILITY OF THE G.C. TO VERIFY THAT ROOF TRUSSES ARE CAPABLE OF SUPPORTING AIR HANDLING UNITS. CONSULT WITH STRUCTURAL ENGINEER AND PROVIDE ADDITIONAL SUPPORT AS NECESSARY.



NOTE: FLOAT SWITCH IN AUXILIARY DRAIN PAN WIRED TO SHUT DOWN AHU MAY BE SUBSTITUTED FOR SEPARATE AUXILIARY DRAIN PIPING.

HORIZONTAL AHU DETAIL (SUSPENDED)
NO SCALE

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SHEET TITLE: HVAC DETAILS

SHEET NUMBER: M300

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PLUMBING FIXTURE SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NO.	DESCRIPTION	CONNECTIONS (in.)				ACCESSORIES	REMARKS
			COLD WATER	HOT WATER	WASTE	VENT		
WC-1	ZURN Z5665-BWL1	ADA WATER CLOSET, FLOOR MOUNT, FLUSH VALVE	1	--	4	2	1. ZURN ZER6000AV-CPM-WS1 BATTERY POWERED SENSOR FLUSH VALVE, 1.6 GPF 2. CHURCH 95CT000 ELONGATED OPEN-FRONT SEAT WITH SS CHECK HINGE	1.6 GPF, RIM SHALL BE 17" AFF, ELONGATED, 2-1/8" FULLY-GLAZED TRAPWAY
WC-2	ZURN Z5654-BWL1	STD. HT. WATER CLOSET, FLOOR MOUNT, FLUSH VALVE	1	--	4	2	1. ZURN ZER6000AV-CPM-WS1 BATTERY POWERED SENSOR FLUSH VALVE, 1.6 GPF 2. CHURCH 95CT000 ELONGATED OPEN-FRONT SEAT WITH SS CHECK HINGE	1.6 GPF, RIM SHALL BE 14" AFF, ELONGATED, 2-1/8" FULLY-GLAZED TRAPWAY
UR-1	ZURN Z5755-U	ADA URINAL, WALL HUNG, TOP SPUD, 0.5 GPF	3/4	--	2	2	1. ZURN Z6003AV-EWS FLUSH VALVE 2. ZURN Z-1222 URINAL CARRIER	LIP SHALL BE 17" AFF
L-1	ZURN Z5220	ADA LAVATORY, UNDERMOUNT, CHINA, 19x16	1/2	1/2	1 1/4	2	1. FAUCET SELECTED BY ARCHITECT - ADA COMPLIANT, 0.5 GPM 2. McGUIRE 155WC WHEELCHAIR LAVATORY STRAINER W/1 1/4" TAILPIECE 3. McGUIRE 170 SWEAT LAVATORY SUPPLIES W/WHEEL HANDLE STOP 4. McGUIRE 8902 P-TRAP W/ESCUTCHEON 5. "LAV-GUARD" #403/103 BY TRUEBRO OR APPROVED EQUAL 6. ZURN Z-1231 CONCEALED ARM LAVATORY CARRIER 7. WATTS MMVLF THERMOSTATIC MIXING VALVE, ASSE-1070 LISTED	0.5 GPM FAUCET
L-2	ZURN Z5310	ADA LAVATORY, WALL-HUNG, CHINA, 20x18	1/2	1/2	1 1/4	2	1. FAUCET SELECTED BY ARCHITECT - ADA COMPLIANT, 0.5 GPM 2. McGUIRE 155WC WHEELCHAIR LAVATORY STRAINER W/1 1/4" TAILPIECE 3. McGUIRE 170 SWEAT LAVATORY SUPPLIES W/WHEEL HANDLE STOP 4. McGUIRE 8902 P-TRAP W/ESCUTCHEON 5. "LAV-GUARD" #403/103 BY TRUEBRO OR APPROVED EQUAL 6. ZURN Z-1231 CONCEALED ARM LAVATORY CARRIER 7. WATTS MMVLF THERMOSTATIC MIXING VALVE, ASSE-1070 LISTED	RIM SHALL BE 34" AFF 0.5 GPM FAUCET
S-1	ELKAY LSR2722	COUNTERMOUNT SINK, SINGLE BOWL, STAINLESS 24"x16"x8"D BOWL, UNDER MOUNT	1/2	1/2	2	2	1. FAUCET SELECTED BY ARCHITECT 2. McGUIRE 8912 1 1/2" x 1 1/2" 17 GAUGE P-TRAP 3. McGUIRE 171 SWEAT 1/2" SUPPLIES W/WHEEL HANDLE STOPS 4. ELKAY LK-99 BASKET DRAIN AND TAILPIECE -	UNDERMOUNT FIXTURE COORD WITH ARCH DWGS PRIOR TO ORDER
S-2	ELKAY ELUH1814	COUNTERMOUNT SINK, SINGLE BOWL, STAINLESS 18"x14"x8"D BOWL, UNDER MOUNT	1/2	1/2	2	2	1. FAUCET SELECTED BY ARCHITECT 2. McGUIRE 8912 1 1/2" x 1 1/2" 17 GAUGE P-TRAP 3. McGUIRE 171 SWEAT 1/2" SUPPLIES W/WHEEL HANDLE STOPS 4. ELKAY LK-99 BASKET DRAIN AND TAILPIECE -	UNDERMOUNT FIXTURE COORD WITH ARCH DWGS PRIOR TO ORDER
SH-1	FIELD FABRICATED SHOWER ENCLOSURE SYMMONS TEMPTROL C-96-500-B30-V	ADA COMPLIANT, CUSTOM FABRICATED IN FIELD	1/2	1/2	2	2	1. TEMTROL PRESSURE-BALANCED MIXING VALVE WITH VOLUME CONTROL 2. T-30-V HAND HELD SHOWER HEAD WITH 5' HOSE, DIVERTER AND 36" SLIDE BAR 3. VACUUM BREAKER FOR HAND HELD SHOWER 4. J.R. SMITH 216-H02X03 SHOWER DRAIN WITH CHROME PLATED STRAINER 5. ADA GRAB BAR AND ADA TRANSFER BENCH, SEE ARCH. DRAWINGS	2.0 GPM FLOW CONTROL COORD WITH ARCH DWGS PRIOR TO ORDER
MB-1	FIAT TSBC6010	MOP BASIN, 24"x24"x12"H, FLOOR MOUNT, TERRAZZO, NEO-CORNER SERIES	1/2	1/2	3	2	1. FIAT #830-AA FAUCET 2. FIAT #832-AA HOSE AND BRACKET 3. FIAT #889-CC MOP HANGER 4. FIAT #1453-BB STRAINER	STAINLESS STEEL CAPS
FD-1	SIOUX CHIEF 832225PNR	FLOOR DRAIN, ADJUSTABLE, ROUND STRAINER	--	--	3	2	HEAVY DUTY NICKEL-BRONZE STRAINER	PROVIDE TRAP PRIMER
WMB-1	SIOUX CHIEF 696-2313MR	WASHING MACHINE UTILITY BOX	1/2	1/2"	2"	2"	WATER HAMMER ARRESTORS	WALL MOUNTED, RECESSED
REF-1	SIOUX CHIEF 696-1010MR	REFRIG. ICEMAKER SUPPLY BOX	1/2	--	--	--	WATER HAMMER ARRESTOR	WALL MOUNTED, RECESSED
DF-1	ELKAY EZH20 LZSTL8WSLK	ADA WATER COOLER, BI-LEVEL, WALL HUNG, REFRIGERATED, WITH BOTTLE FILLING STATION	1/2	--	1 1/4	2	1. McGUIRE 170 SWEAT LAVATORY SUPPLY W/WHEEL HANDLE STOP 2. McGUIRE 8902 P-TRAP W/ESCUTCHEON 3. ZURN Z-1225 CONCEALED ARM CARRIER FOR WATER COOLERS 4. LKAPREZL CANE APRON ACCESSORY	120V/1 PH./60 HZ. MOUNT AT HIGH/LOW ADA HEIGHTS

APPROVED MANUFACTURERS:
CHINA WARE: ZURN, KOHLER, TOTO AND AMERICAN STANDARD
FLUSH VALVES: KOHLER, SLOAN, TOTO AND ZURN
STAINLESS STEEL SINKS: ELKAY, JUST, ADVANCE TABCO AND KOHLER
FITTINGS: DELTA, SYMMONS, JUST, ELKAY, AND ZURN
SHOWER VALVES: SYMMONS, DELTA AND ZURN
WATER COOLERS: ELKAY, SUNROC AND OASIS
FLOOR DRAINS: SIOUX CHIEF, J.R. SMITH, ACO AND ZURN

TANKLESS GAS WATER HEATER SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NO.	SYSTEM	INPUT (MBH)	EWT (°F)	LWT (°F)	RECOVERY (GPM)	UNIT DIMENSIONS (IN.)	ELECTRICAL		NOTES
								(VOLTS/PH/HZ)	DISCONNECT	
GWH-1	NORITZ NCC1991-DV	DOMESTIC WATER	199.0	50	140	4.1	29.7 x 19.1 x 11.8	120/1/60	DIV. 16	ELECTRONIC IGNITION DIRECT VENT, CONDENSING
GWH-2	NORITZ NCC1991-DV	DOMESTIC WATER	199.0	50	140	4.1	29.7 x 19.1 x 11.8	120/1/60	DIV. 16	ELECTRONIC IGNITION DIRECT VENT, CONDENSING

PROVIDE ROOF MOUNTED CONCENTRIC VENT TERMINAL.
PROVIDE AQUASTAT AND TIMER FOR CP-1.
PROVIDE WITH OPTIONAL REMOTE CONTROL PANEL.
APPROVED MANUFACTURERS ARE NORITZ, RHEEM, RINNAI AND NAVIEN.
SEE DETAIL. ALL VALVES AND DISCONNECT SWITCHES SHALL BE MOUNTED NO HIGHER THAN 6'-0" AFF.

CIRCULATION PUMP SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NO.	GPM	HEAD (FT.)	RPM	FLANGE SIZE (IN.)	TYPE	CONSTRUCTION	ELECTRICAL				NOTES
								MOTOR WATTS	(VOLTS/PH/HZ)	DISCONNECT	MOTOR STARTER	
CP-1	B&G NBF-12F/LW	2.5	15	2800	3/4	CENTRIFUGAL	ALL BRONZE	55	120/1/60	DIV 16	MANUAL FRACTIONAL	PROVIDE AQUASTAT AND AUTOMATIC TIMER KIT

APPROVED MANUFACTURERS ARE B&G, ARMSTRONG, AND TACO
SEE DETAIL. ALL VALVES AND DISCONNECT SWITCHES SHALL BE MOUNTED NO HIGHER THAN 6'-0" AFF.

PLUMBING SPECIALTIES SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER/ MODEL NO.	NOTES
PRV	PRESSURE REDUCING VALVE	WATTS U-5-B	SET AT 65 PSI
WHA	WATER HAMMER ARRESTOR	J.R. SMITH HYDROTROL	STAINLESS STEEL BELLOWS
ET	EXPANSION TANK (WATER HEATER)	AMTROL ST-12	BLADDER TYPE
TP	TRAP PRIMER	PPP PR-500	DISTRIBUTION UNIT DU-3 (WHERE NEEDED)
VB	VACUUM BREAKER	WATTS 288A	PROVIDE FOR WATER HEATER
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER	WATTS SERIES 009	BRONZE STRAINER, SHUTOFF VALVES
HB-1	HOSE BIBB	WATTS SC8, 1/2"	BRASS, WHEEL HANDLE, VACUUM BREAKER
TV-1	TEMPERING VALVE	SYMMONS TEMPCONTROL "A" SERIES	VACUUM BREAKER AND TEMPERATURE GAUGE SEE DETAIL
WH-1	WALL HYDRANT	J.R.SMITH 5609QT	NON-FREEZE, EXPOSED, KEY OPERATED
WH-2	DUAL TEMP WALL HYDRANT	J.R.SMITH 5560QT-H-WH	NON-FREEZE, DUAL-TEMP, VACUUM BREAKER, CONCEALED W/LOCKING COVER, WHEEL HANDLES
RH-1	ROOF HYDRANT	ZURN Z1388	NON-FREEZE ROOF HYDRANT, W/TAPPED DRAIN HOLE
BFP	BACKFLOW PREVENTOR	WATTS LF7R DUAL CHECK VALVE	LEAD FREE, ASSE 1024 CERTIFIED
BFP-B	BACKFLOW PREVENTOR	WATTS SD-3 DUAL CHECK VALVE	LEAD FREE, ASSE 1022 CERTIFIED FOR CARBONATED BEVERAGE DISPENSERS
HD-1	HUB DRAIN	-	SEE DETAIL
TMV	THERMOSTATIC MIXING VALVE	WATTS LFMMV	ASSE 1070 LISTED, LEAD FREE
DSN-1	DOWNSPOUT NOZZLE	ZURN Z199	NICKEL-BRONZE FINISH
WB-1	WASHING MACHINE BOX	OATEY ELIMINATOR 38642	SINGLE LEVER QUARTER TURN VALVES WITH HAMMER ARRESTORS

NOTE:

ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE DESIGN DRAWINGS. ANY FIELD CHANGES MUST BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. CONTRACTOR SHALL PAY IN ADVANCE FOR ALL COSTS ASSOCIATED WITH DRAWING REVISIONS REQUIRED BY FIELD CHANGES MADE WITHOUT PRIOR APPROVAL BY THE ARCHITECT.

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3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER: 23031-A

DATE: 06/19/26

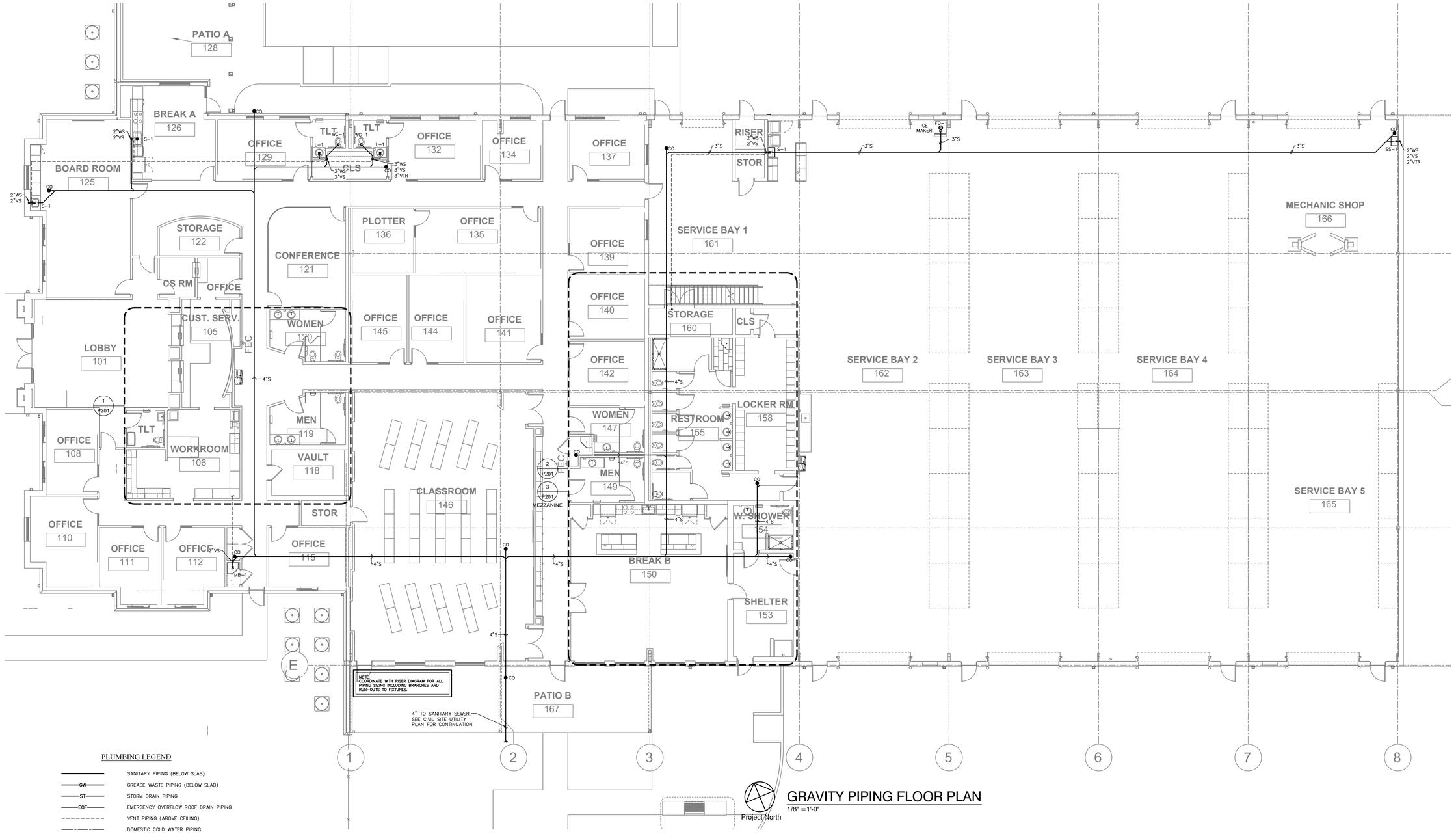
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#	DESCRIPTION	DATE

SHEET TITLE: PLUMBING SCHEDULES

SHEET NUMBER: P100

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GRAVITY PIPING FLOOR PLAN

1/8" = 1'-0"

PLUMBING LEGEND

	SANITARY PIPING (BELOW SLAB)
—GW—	GREASE WASTE PIPING (BELOW SLAB)
—ST—	STORM DRAIN PIPING
—EOF—	EMERGENCY OVERFLOW ROOF DRAIN PIPING
	VENT PIPING (ABOVE CEILING)
	DOMESTIC COLD WATER PIPING
	EXIST. DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	EXIST. DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER RETURN PIPING
	EXIST. DOMESTIC HOT WATER RETURN PIPING
—G—	NATURAL GAS PIPING (LOW PRESSURE)
—(X)G—	EXIST. NATURAL GAS PIPING
	EXIST. PIPING TO BE REMOVED
	BALL VALVE
	GATE VALVE
	GAS COCK
	CALIBRATED BALANCING VALVE
CO	FLOOR CLEANOUT
WCO	WALL CLEANOUT
FD-1	FLOOR DRAIN
HD	HUB DRAIN
FS-1	FLOOR SINK
	COMBINATION FITTING IN EXIST. LINE
	COMBINATION FITTING IN NEW LINE
(X)	EXISTING
	CONNECT TO EXISTING – FIELD VERIFY
WS	WASTE STACK
VS	VENT STACK
VTR	VENT THRU ROOF

GENERAL NOTES

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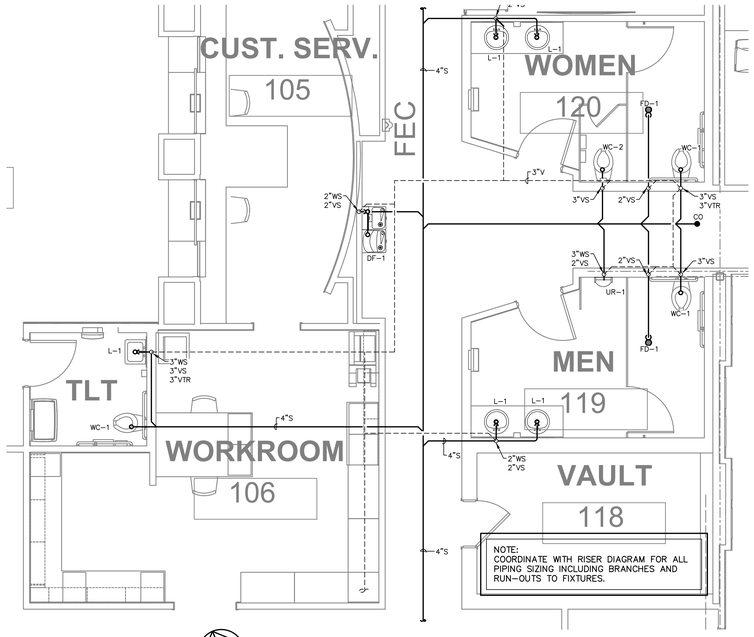
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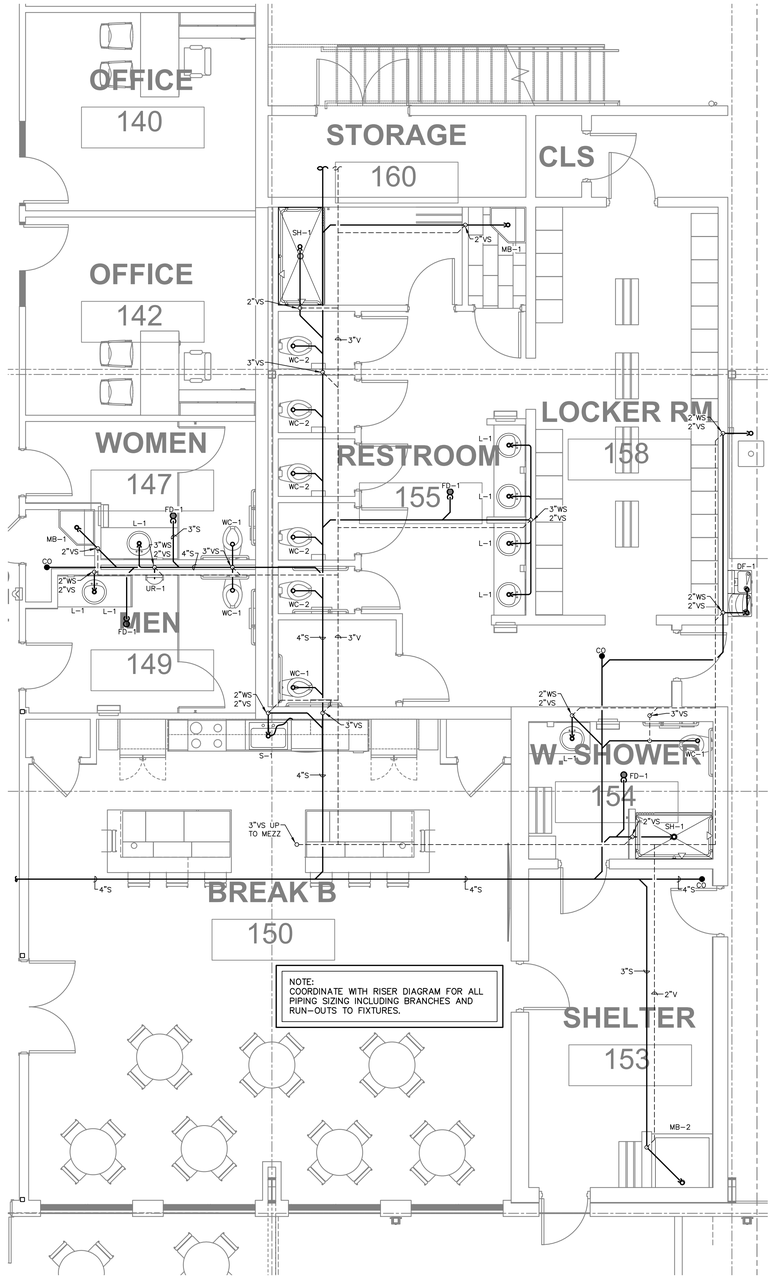
SHEET TITLE:
GRAVITY PIPING
FLOOR PLAN
OVERALL

SHEET NUMBER:
P200



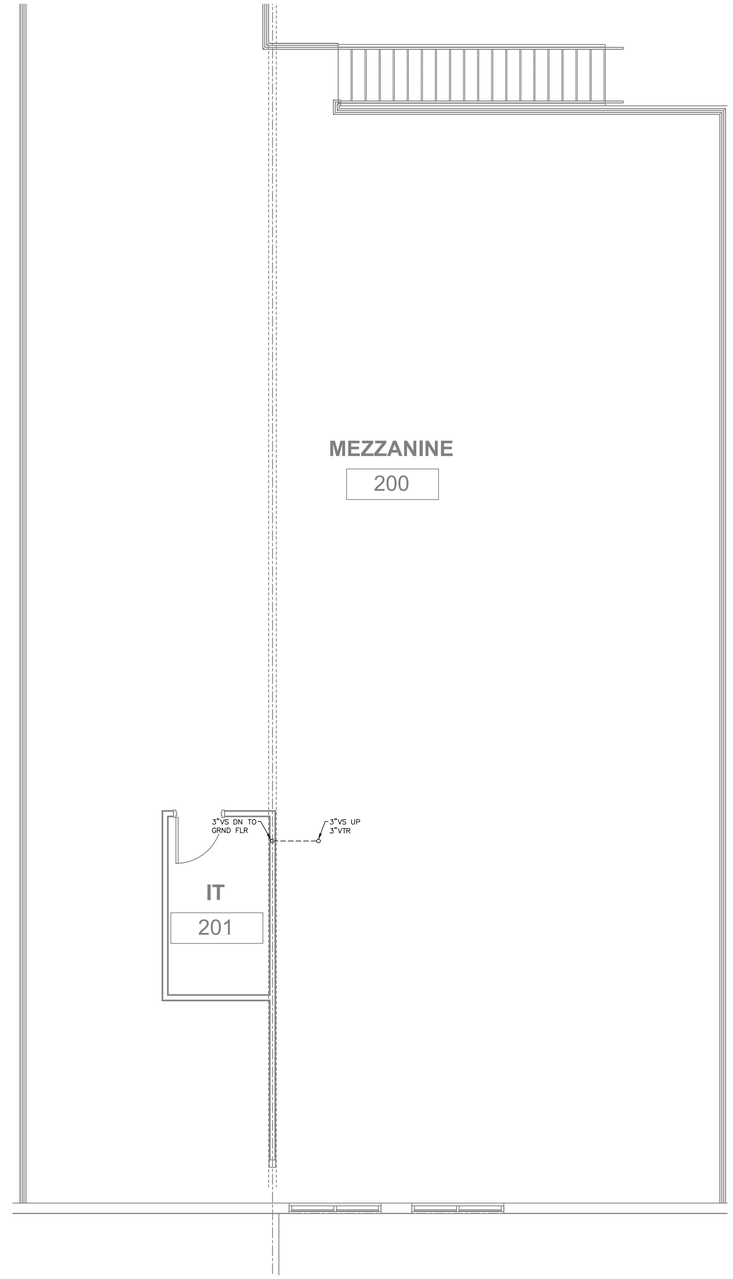
Project North

1 GRAVITY PIPING PARTIAL PLAN
1/4" = 1'-0"



Project North

2 GRAVITY PIPING PARTIAL PLAN
1/4" = 1'-0"



Project North

3 GRAVITY PIPING MEZZANINE PLAN
1/4" = 1'-0"

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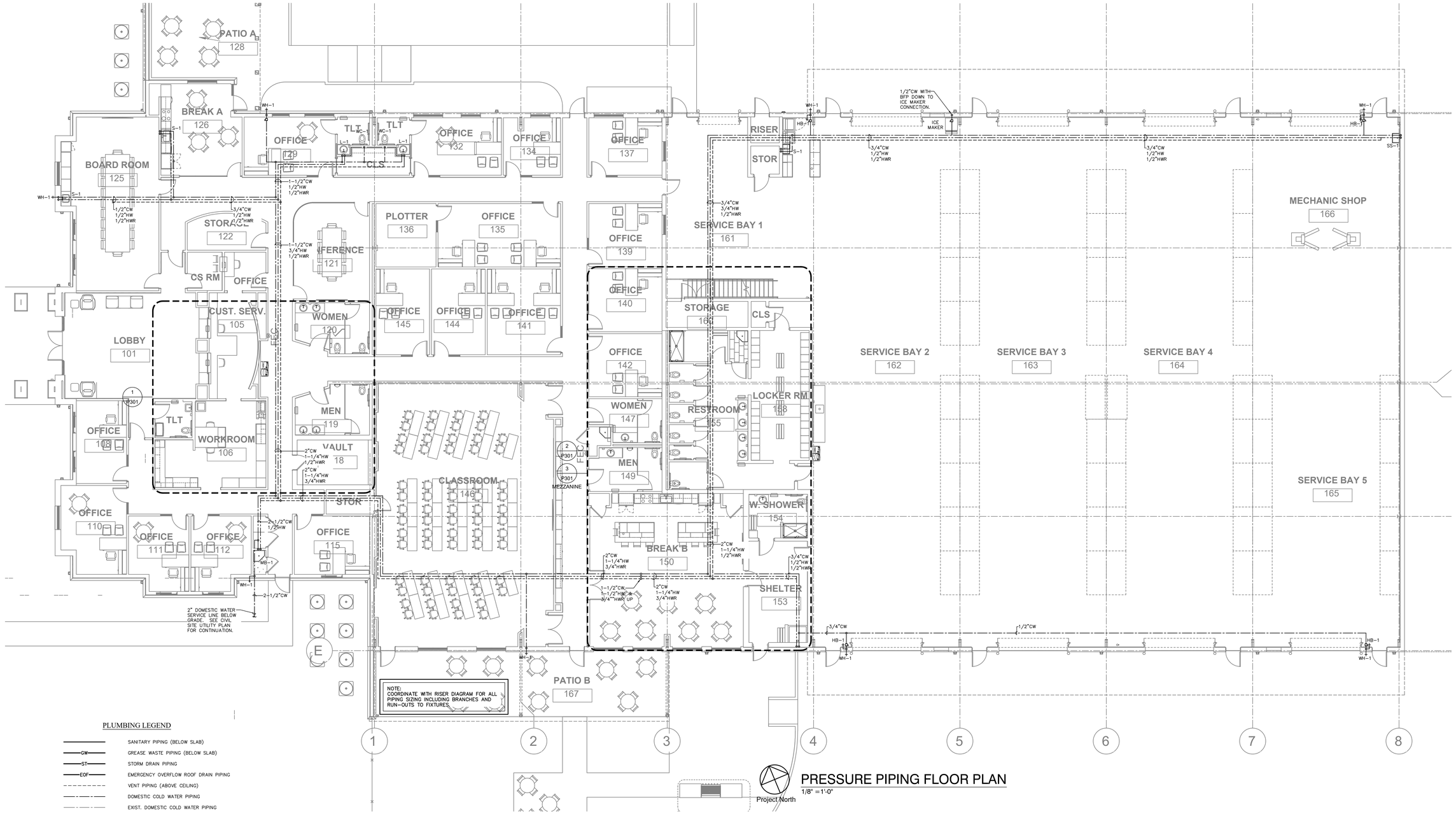
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#	DESCRIPTION	DATE

SHEET TITLE:
GRAVITY PIPING ENLARGED PLANS

SHEET NUMBER:
P201

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PRESSURE PIPING FLOOR PLAN

1/8" = 1'-0"

Project North

PLUMBING LEGEND

	SANITARY PIPING (BELOW SLAB)
GW	GREASE WASTE PIPING (BELOW SLAB)
ST	STORM DRAIN PIPING
EOF	EMERGENCY OVERFLOW ROOF DRAIN PIPING
	VENT PIPING (ABOVE CEILING)
	DOMESTIC COLD WATER PIPING
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	COMBINATION FITTING IN EXIST. LINE
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WS	WASTE STACK
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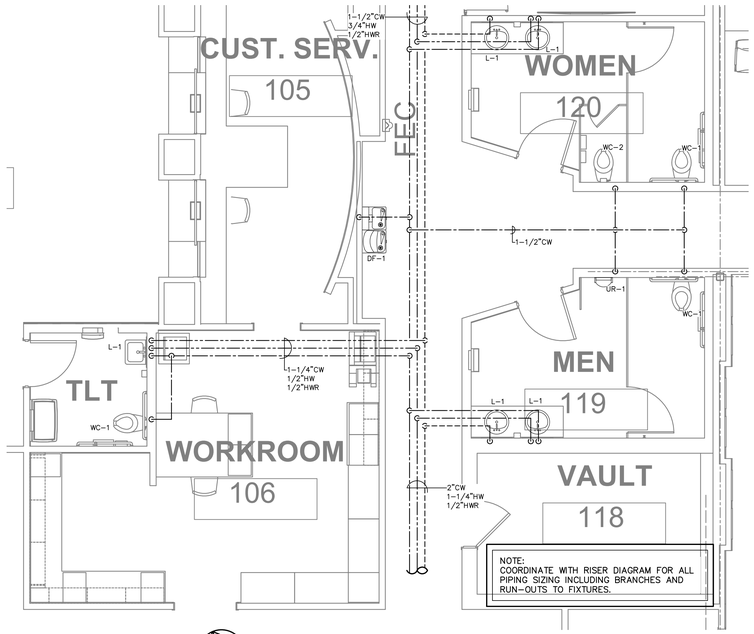
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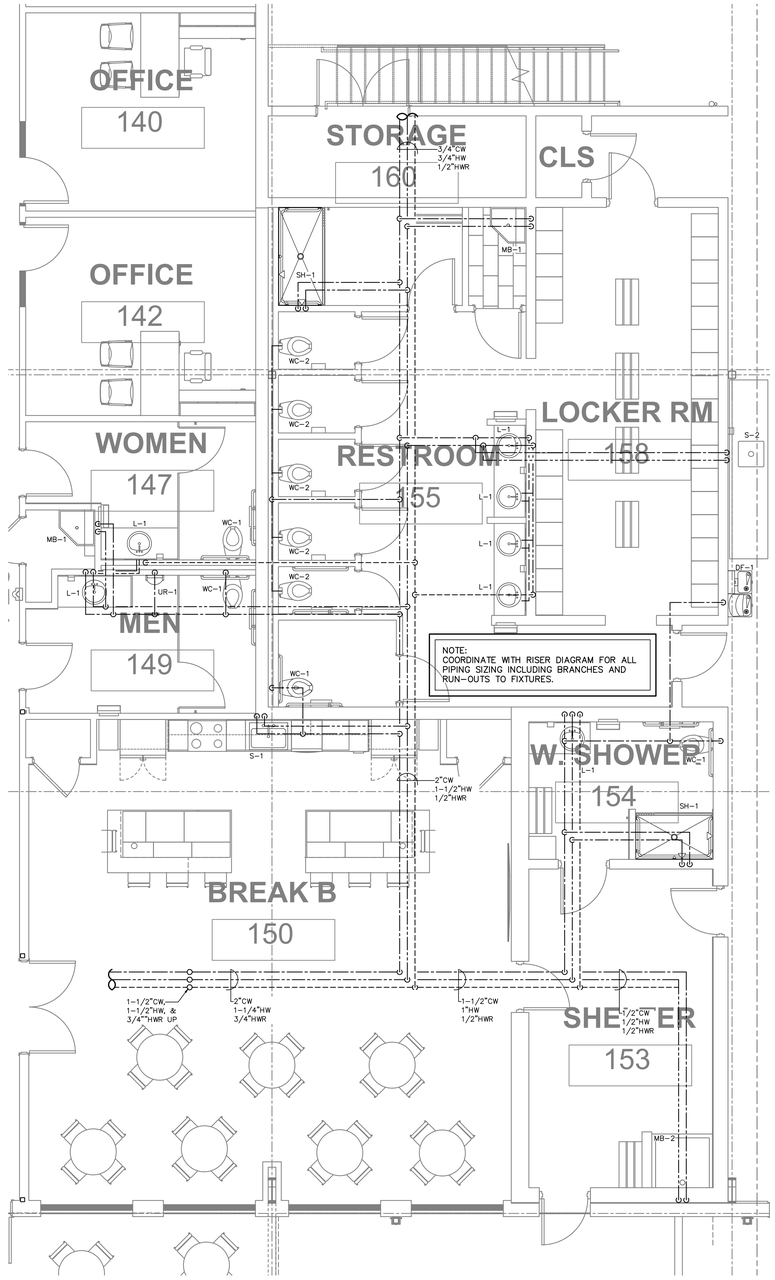
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SHEET TITLE:
PRESSURE PIPING FLOOR PLAN OVERALL

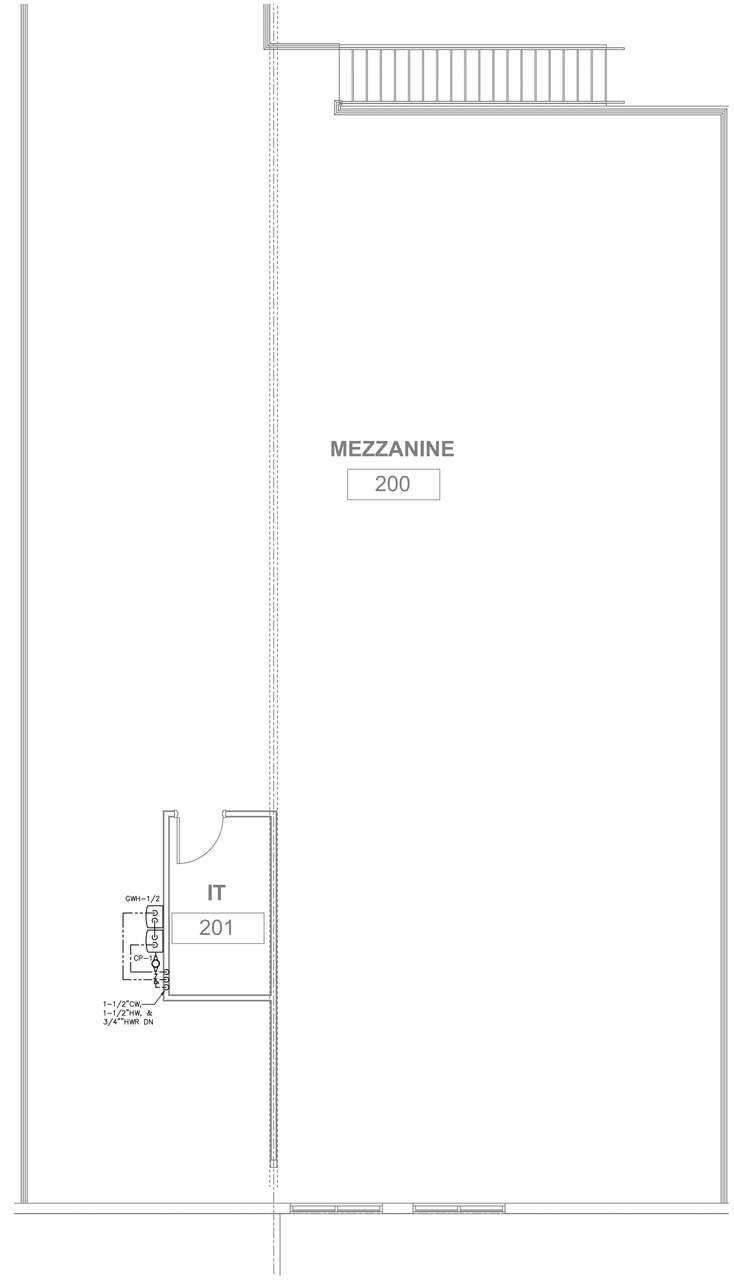
SHEET NUMBER:
P300



Project North 1 PRESSURE PIPING PARTIAL PLAN
1/4" = 1'-0"



Project North 2 PRESSURE PIPING PARTIAL PLAN
1/4" = 1'-0"



Project North 3 PRESSURE PIPING MEZZANINE PLAN
1/4" = 1'-0"

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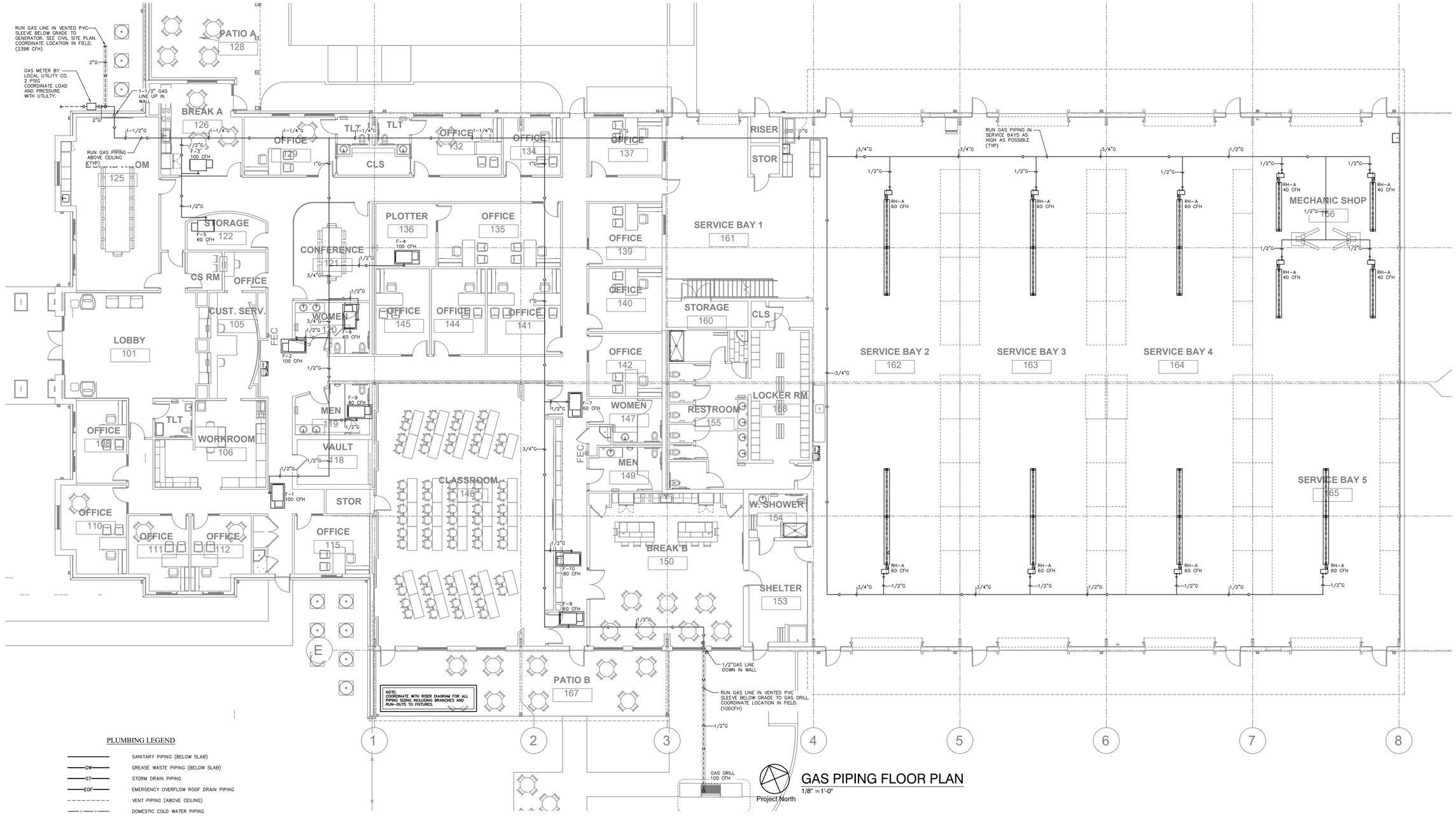
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SHEET TITLE:
PRESSURE PIPING ENLARGED PLANS

SHEET NUMBER:
P301

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GAS PIPING FLOOR PLAN

1/8" = 1'-0"

PLUMBING LEGEND

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GW	GREASE WASTE PIPING (BELOW SLAB)
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	CONNECT TO EXISTING – FIELD VERIFY
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VS	VENT STACK
VTR	VENT THRU ROOF

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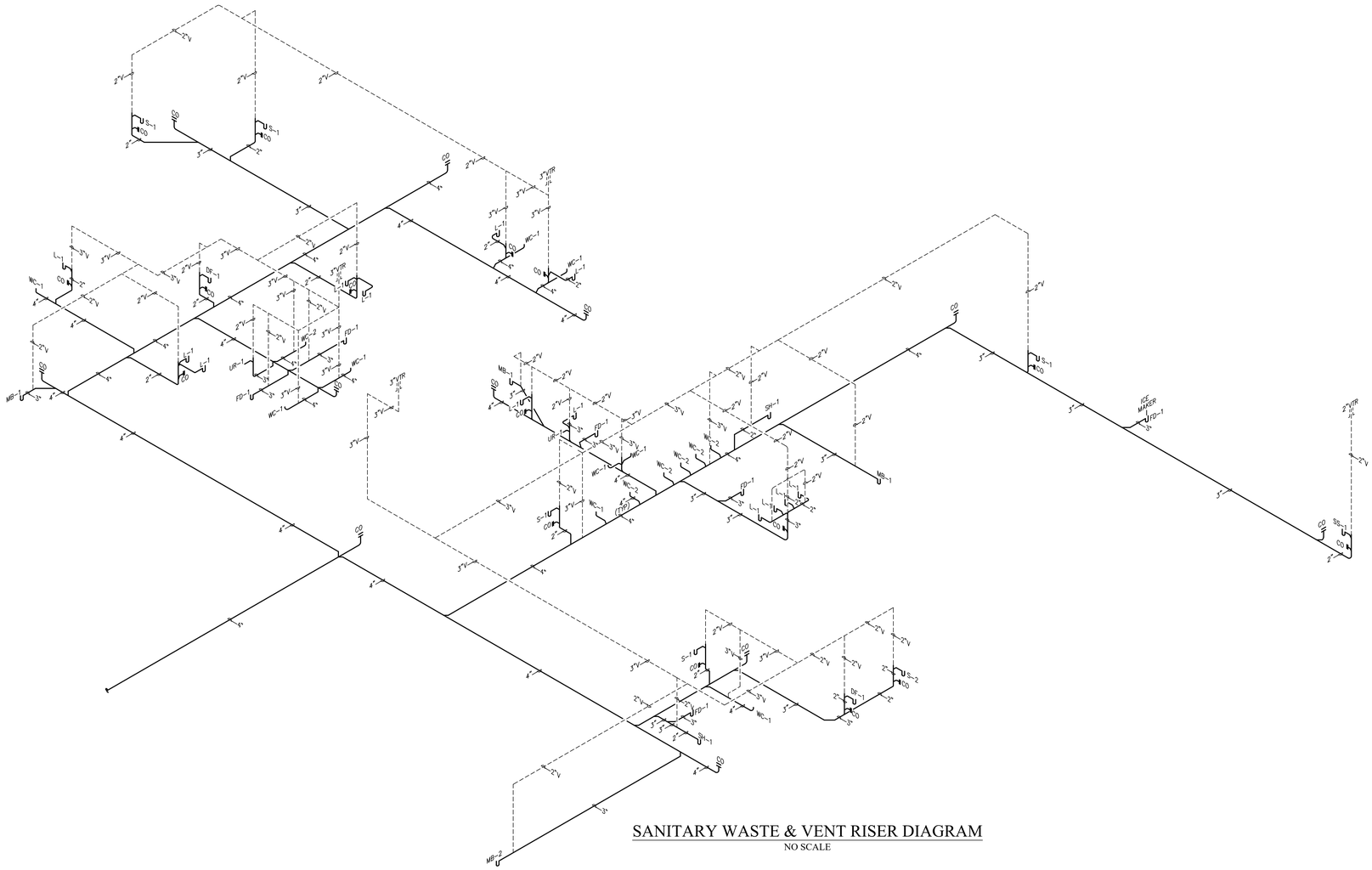
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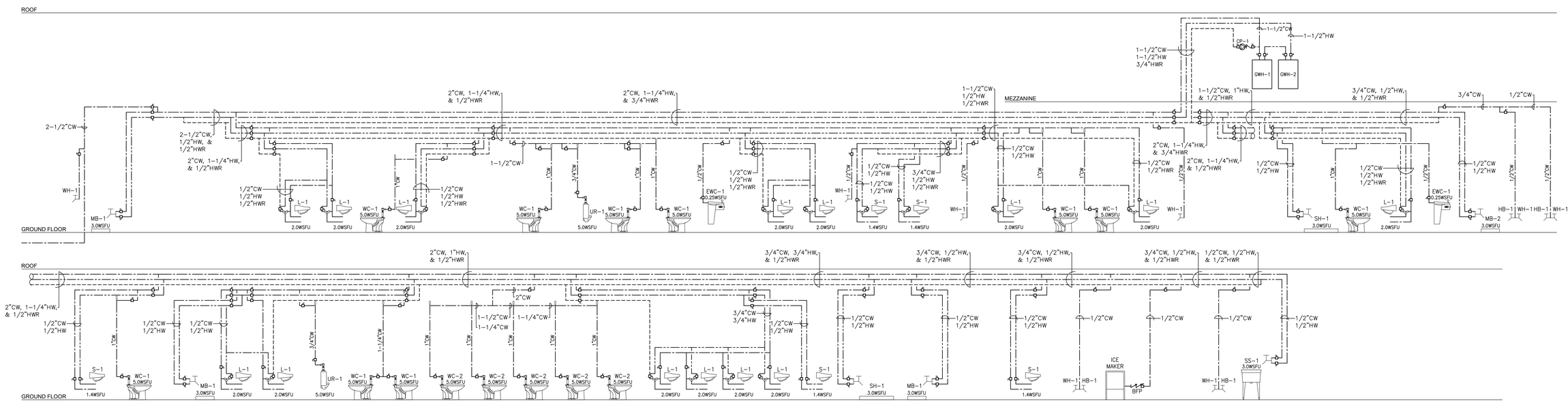
#	DESCRIPTION	DATE

SHEET TITLE: GAS PIPING FLOOR PLAN

SHEET NUMBER: P400



SANITARY WASTE & VENT RISER DIAGRAM
NO SCALE



PRESSURE PIPING RISER DIAGRAM
NO SCALE

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JASPER WATERWORKS - NEW BUILD
3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
06/19/26

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#	DESCRIPTION	DATE

SHEET TITLE:
GRAVITY & PRESSURE PIPING RISER DIAGRAMS

SHEET NUMBER:
P500

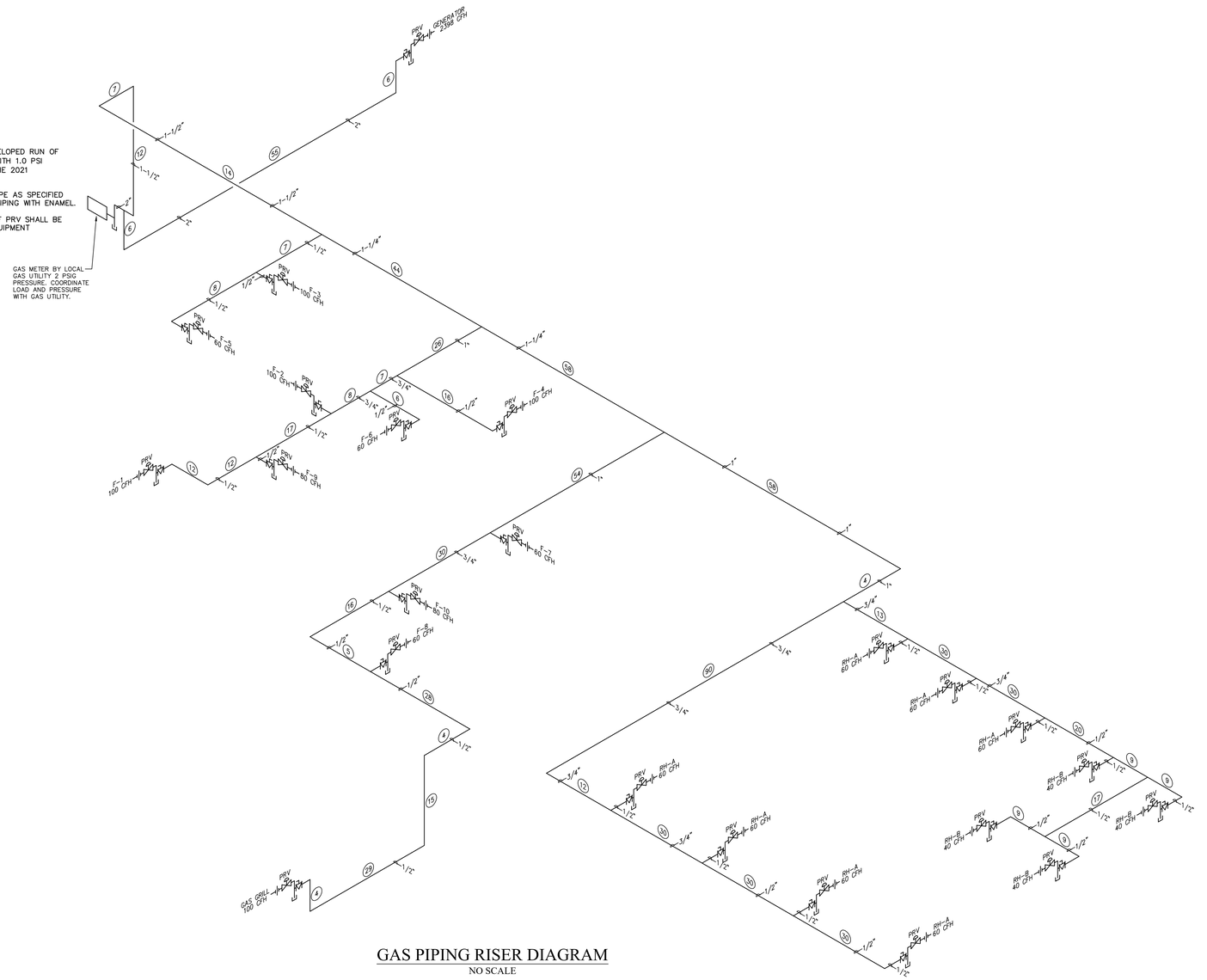
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PIPE SIZES ARE BASED ON A LONGEST DEVELOPED RUN OF 460'-0" AND 2 PSIG DELIVERY PRESSURE WITH 1.0 PSI PRESSURE DROP PER TABLE 402.4(5) OF THE 2021 INTERNATIONAL FUEL GAS CODE.

PIPE MATERIAL SHALL BE SCH. 40 STEEL PIPE AS SPECIFIED ON SHEET P1.0. PAINT ALL OUTSIDE GAS PIPING WITH ENAMEL.

LOW PRESSURE GAS PIPING DOWNSTREAM OF PRV SHALL BE EQUIPMENT CONNECTION SIZE. REFER TO EQUIPMENT INSTALLATION INSTRUCTIONS. (TYP)

TOTAL LOAD FOR SYSTEM IS 3,878 CFH.



GAS PIPING RISER DIAGRAM
NO SCALE

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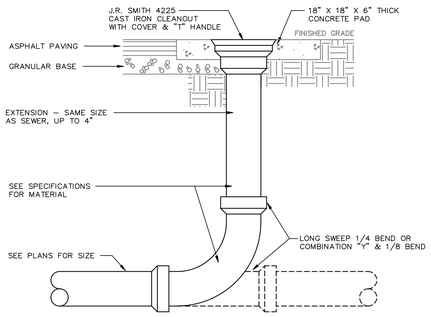
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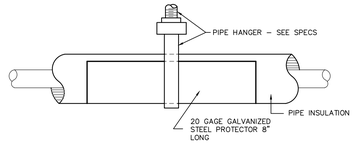
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SHEET TITLE: GRAVITY & PRESSURE PIPING RISER DIAGRAMS

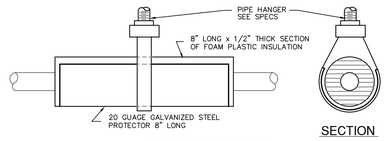
SHEET NUMBER: P501



EXTERIOR CLEANOUT
NO SCALE

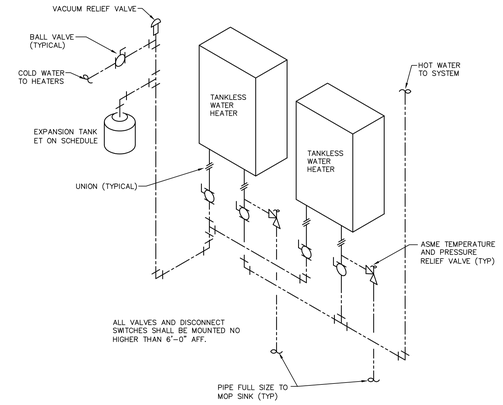


INSULATED LINES

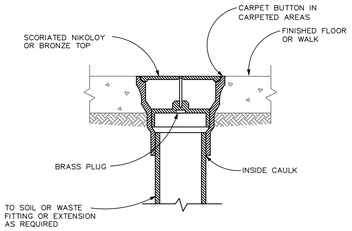


UNINSULATED LINES

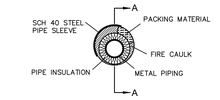
PIPE HANGER DETAIL
NO SCALE

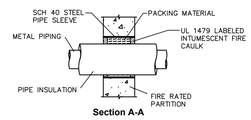


WATER HEATER PIPING DETAIL
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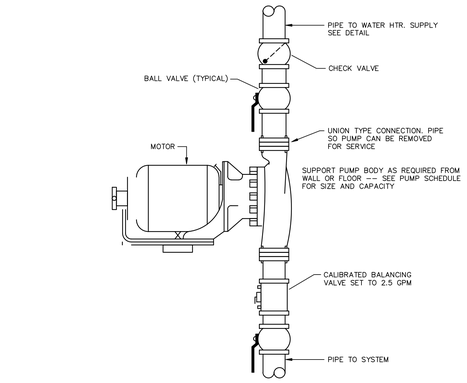


FLOOR CLEANOUT
NO SCALE

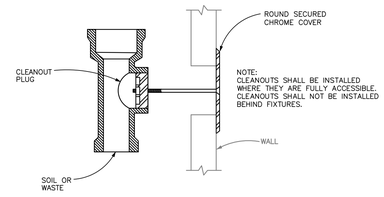




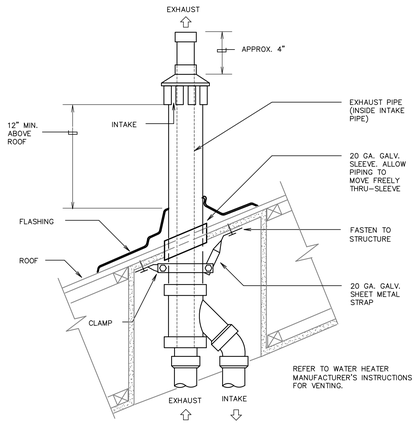
FIRE WALL PIPE PENETRATION DETAIL
NO SCALE



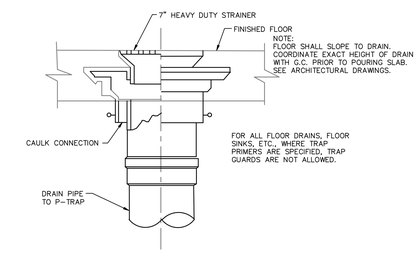
INLINE CIRCULATION PUMP DETAIL
NO SCALE



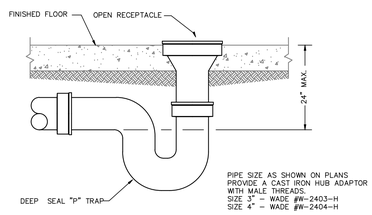
WALL CLEANOUT
NO SCALE



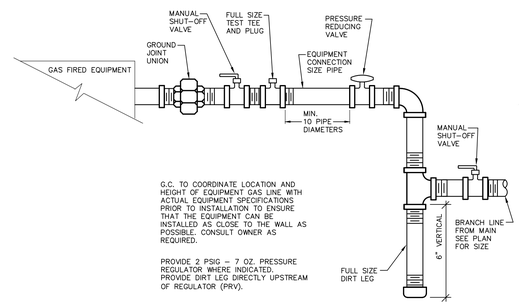
CONCENTRIC ROOF TERMINATION DETAIL
NO SCALE

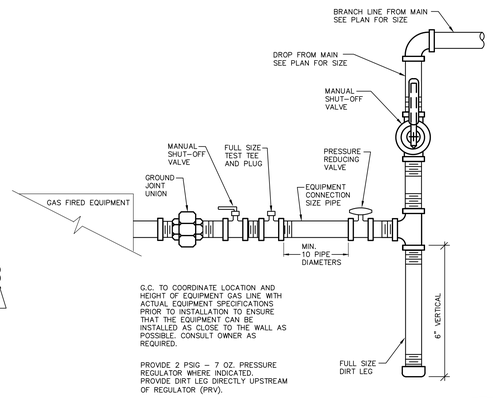


FLOOR DRAIN FD-1 DETAIL
NO SCALE



HUB DRAIN (HD-1) DETAIL
NO SCALE





GAS LINE CONNECTION DETAILS
NO SCALE

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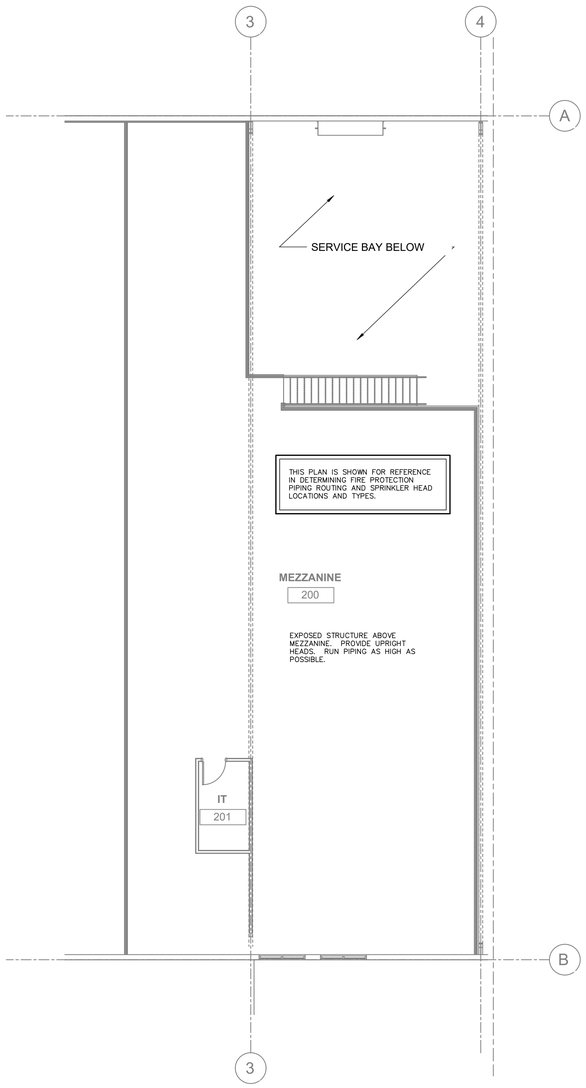
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SHEET TITLE:
PLUMBING DETAILS

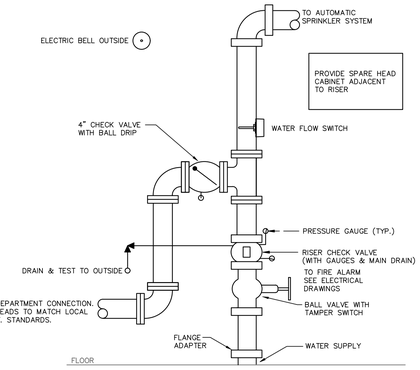
SHEET NUMBER:
P600



Project North

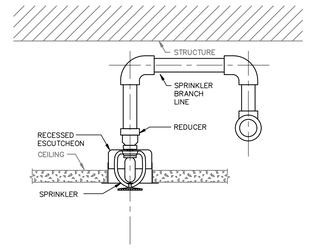
FIRE PROTECTION CRITERA PLAN - MEZZANINE LEVEL

1/8" = 1'-0"



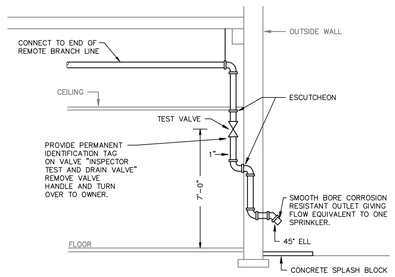
AUTOMATIC SPRINKLER ENTRANCE (WET)

NO SCALE



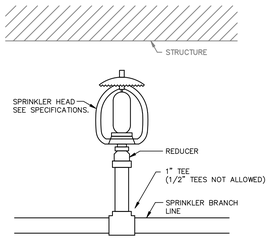
RECESSED SPRINKLER

NO SCALE



MAIN DRAIN TEST LINE DETAIL

NO SCALE



UPRIGHT SPRINKLER HEAD DETAIL

NO SCALE

SPRINKLER NOTES:

PROVIDE WET SYSTEM SPRINKLER COVERAGE FOR BUILDING IN ACCORDANCE WITH THE 2019 EDITION OF NFPA 13, THE 2015 INTERNATIONAL BUILDING CODE WITH LOCAL AND STATE AMENDMENTS AND SPECIFICATIONS.

1. REFER TO CIVIL DRAWINGS FOR LOCATION OF FIRE PROTECTION SERVICE LINE CONNECTION TO MAIN AND ROUTING TO THE BUILDING.
2. DOUBLE CHECK BACKFLOW PREVENTER ACCEPTABLE TO LOCAL WATER UTILITY SHALL BE PROVIDED INSIDE THE BUILDING IN THE VERTICAL RISER. COORDINATE FLOW SWITCH AND TAMPER SWITCH LOCATIONS WITH FIRE ALARM SUBCONTRACTOR. ALL SHUT-OFF VALVES SHALL BE EQUIPPED WITH TAMPER SWITCHES AND A FLOW SWITCH SHALL BE PROVIDED FOR THE MAIN RISER.
3. FIRE DEPARTMENT CONNECTION ACCEPTABLE TO THE LOCAL FIRE DEPARTMENT SHALL BE PROVIDED OUTSIDE THE BUILDING (SEE SITE PLAN ON CIVIL DRAWINGS).
4. PROVIDE WET SYSTEM SPRINKLER PROTECTION THROUGHOUT ALL AREAS OF THE BUILDING. COORDINATE CLOSELY WITH OTHER TRADES TO AVOID INSTALLATION CONFLICTS AND OBSTRUCTION TO SPRINKLER DISCHARGE.
5. OCCUPANCY CLASSIFICATION FOR THIS BUILDING SHALL BE AS NOTED ON FLOOR PLAN. VERIFY WITH LOCAL BUILDING AUTHORITIES.
4. DESIGN APPROACH FOR THE FIRE PROTECTION SYSTEM SHALL BE THE OCCUPANCY HAZARD FIRE CONTROL APPROACH. THE WATER DEMAND REQUIREMENTS SHALL BE DETERMINED USING THE HYDRAULIC CALCULATION METHOD IN ACCORDANCE WITH NFPA-13. SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE WITH A TEMPERATURE RATING OF 135 OR 155 DEG. F (ORDINARY TEMPERATURE RATING). MAXIMUM HEAD SPACING SHALL BE 15 FT. WITH A MAXIMUM AREA PER SPRINKLER HEAD OF 225 SF.
5. ALL MATERIALS, WORKMANSHIP AND TESTING SHALL MEET THE REQUIREMENTS OF APPLICABLE STATE/LOCAL CODES AND THE REQUIREMENTS OF NFPA 13.
6. COORDINATE CLOSELY WITH SITE UTILITY WORK. REFER TO CIVIL ENGINEERING DOCUMENTS.
7. REFER TO CIVIL DRAWINGS FOR RECENT FLOW TEST INFORMATION FOR THE PURPOSE OF BIDDING. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR OBTAINING FLOW TEST FOR THE PURPOSE OF HYDRAULIC CALCULATIONS AND PIPE SIZING.
8. PROVIDE DOCUMENTATION OF TESTING OF THE LOCAL WATER SUPPLY INDICATING CONDITIONS THAT COULD LEAD TO MICROBIAL INDUCED CORROSION (MIC). IF CONDITIONS ARE FOUND THAT MAY RESULT IN MIC CONTAMINATION OF THE FIRE PROTECTION PIPING, NOTIFY THE ARCHITECT IN WRITING TO DETERMINE NECESSARY CORRECTIVE MEASURES.
9. THIS DRAWING PROVIDES A GENERAL PERFORMANCE SPECIFICATION FOR THE INSTALLATION OF WET SYSTEM AUTOMATIC SPRINKLER PROTECTION FOR ALL AREAS OF THE BUILDING.
10. DRAWINGS ARE SCHEMATIC IN NATURE AND CONTRACTOR SHALL INDEPENDENTLY DETERMINE EXACT PIPE ROUTING/SIZING AS REQUIRED BY SITE CONDITIONS AND HYDRAULIC CALCULATIONS.
11. CONTRACTOR SHALL INDEPENDENTLY PREPARE AND SUBMIT SHOP DRAWINGS AND HYDRAULIC CALCULATIONS TO THE OWNER AND LOCAL AUTHORITIES FOR REVIEW AND APPROVAL.
12. ALL FIRE PROTECTION SYSTEM MATERIALS, WORKMANSHIP AND TESTING SHALL COMPLY WITH NFPA 13, STATE AND LOCAL REQUIREMENTS.
13. PROVIDE SPRINKLER COVERAGE WITH REGARD TO OBSTRUCTIONS TO SPRINKLER DISCHARGE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13.
14. ALL BRANCH LINES SHALL BE RUN AS HIGH AS POSSIBLE. COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING, STRUCTURAL AND LIGHTING.
15. ALL WET SYSTEM PIPING SHALL BE INSTALLED WITHIN THE HEATED ENVELOPE OF THE BUILDING.
16. FIRE STOP AND SEAL ALL PENETRATIONS IN RATED WALLS.
17. PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS.
18. COORDINATE WORK WITH OTHER TRADES. PROVIDE NECESSARY OFFSETS IN PIPING AS REQUIRED TO ACCOMMODATE ALL WORK.
19. COORDINATE PIPING ELEVATIONS AND SPRINKLER HEAD LAYOUT WITH ARCHITECT'S CEILING PLANS. MAINTAIN ADEQUATE CLEARANCE TO ALLOW FOR DUCTWORK, CEILING AND LIGHTING INSTALLATION AT THE SPECIFIED CEILING HEIGHTS.
20. FOR LAY-IN CEILINGS, LOCATE ALL SPRINKLER HEADS IN CENTER OF CEILING TILES.

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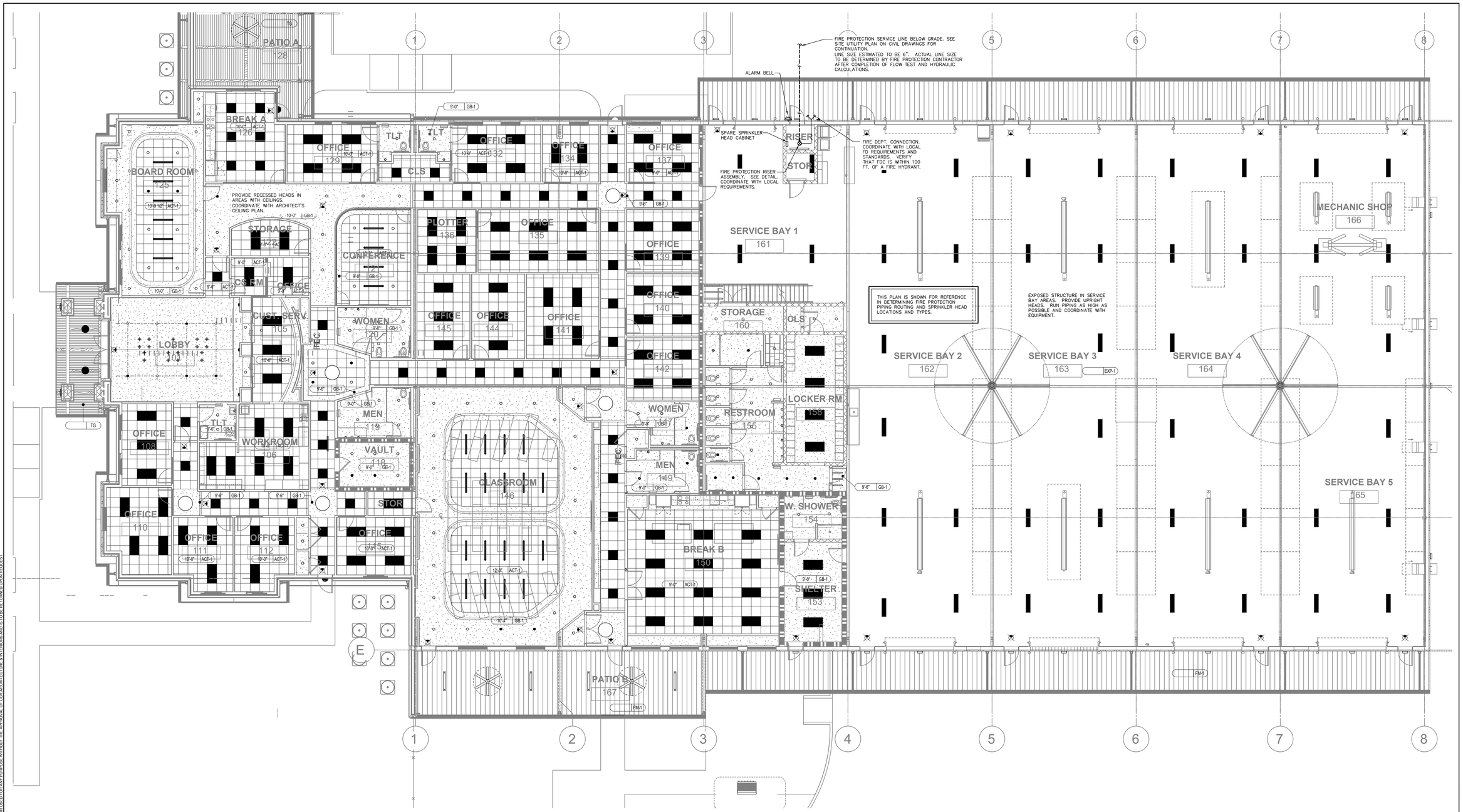
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#	DESCRIPTION	DATE

SHEET TITLE: FIRE PROTECTION CRITERIA PLAN - MEZZANINE LEVEL, DETAILS AND NOTES

SHEET NUMBER: FP100



Project North

FIRE PROTECTION CRITERA PLAN

1/8" = 1'-0"

FIRE PROTECTION LEGEND

- FIRE PROTECTION PIPING
- SUPERVISED OS&Y GATE VALVE
- FLOW SWITCH
- WATER MOTOR GONG
- SIAMESE FD CONNECTION

GENERAL NOTES

THESE NOTES APPLY TO ALL FIRE PROTECTION DRAWINGS

1. COORDINATE WORK WITH OTHER TRADES. PROVIDE NECESSARY OFFSETS IN PIPING AS REQUIRED TO ACCOMMODATE ALL WORK.
2. REFER TO ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR AVAILABLE SPRINKLER HEAD LOCATIONS, HVAC DUCTWORK LOCATIONS, DIFFUSERS & GRILLES, CEILING HEIGHTS AND CEILING TYPES. (TYP)
3. COORDINATE PIPING ELEVATIONS AND SPRINKLER HEAD LAYOUT WITH ARCHITECT'S CEILING PLANS. MAINTAIN ADEQUATE CLEARANCE TO ALLOW FOR DUCTWORK, CEILING AND LIGHTING INSTALLATION AT THE SPECIFIED CEILING HEIGHTS.
4. FOR LAY-IN CEILINGS, LOCATE ALL SPRINKLER HEADS IN CENTER OF CEILING TILES.
5. PROVIDE UPRIGHT HEADS IN AREAS WITH EXPOSED STRUCTURE (TYP)
6. VERIFY OCCUPANCY CLASSIFICATIONS WITH LOCAL AUTHORITY HAVING JURISDICTION.

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JOB NUMBER: 23031-A

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#	DESCRIPTION	DATE

SHEET TITLE: FIRE PROTECTION CRITERIA PLAN

SHEET NUMBER: FP200

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GENERAL NOTES:

1. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGHING IN LIGHT SWITCHES TO ENSURE PROPER SWITCH LOCATION. VERIFY ALL CASEWORK DETAILS TO ENSURE THAT ALL OUTLETS ABOVE CASEWORK ARE AT THE PROPER HEIGHT.
2. SERVICE TO THE BUILDING SHALL BE 120/208 VOLTS, 3PHASE, 4WIRE, WYE.
3. ALL CONDUIT SHALL BE RUN CONCEALED UNLESS SPECIFICALLY SHOWN EXPOSED.
4. THE CONTRACTOR SHALL CHECK ALL LIGHTING FIXTURES FOR EXACT TYPE MOUNTING AND SPACE REQUIRED BEFORE ROUGHING IN.
5. THE CONTRACTOR SHALL WORK CLOSELY WITH THE GENERAL CONTRACTOR AND VERIFY EXACT TYPE OF EQUIPMENT TO BE INSTALLED AND THE DIMENSIONS WHICH MAY AFFECT THE EXACT PLACEMENT OF ELECTRICAL WORK.
6. VERIFY THE EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN. LIKEWISE APPRAISE ALL TRADES OF THE LOCATIONS OF ELECTRICAL WORK THAT AFFECTS WALL THICKNESS, PLUMBING, MECHANICAL, ETC.
7. ALL CONDUIT STUBBED OUT FOR FUTURE SHALL BE CAPPED AND HAVE LOCATION MARKED WITH A 2" SQUARE, PAINTED RED, WITH CONDUIT NAME AND SIZE SHOWN IN WHITE.
8. ALL BRANCH CIRCUITS AND FEEDERS SHALL HAVE AN INSULATED GROUND WIRE PULLED IN THE CONDUIT WITH CURRENT CONDUCTOR UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE GROUNDING CONDUCTOR SHALL BE SIZED ACCORDING TO TABLE 250-122 OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE UNLESS INDICATED TO BE LARGER IN THE SPECIFICATIONS OR PLANS.
9. DO ALL WORK IN COMPLIANCE WITH ALL APPLICABLE CODES, LAWS AND ORDINANCES, THE NATIONAL ELECTRICAL CODE (HEREINAFTER REFERRED TO AS "CODE" OR "NEC"), THE AMERICANS WITH DISABILITIES ACT, AND THE REGULATIONS OF THE LOCAL AUTHORITIES HAVING JURISDICTION AND, WHERE APPLICABLE, UTILITY COMPANIES. OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES OF INSPECTIONS AND APPROVAL, AND THE LIKE, AND DELIVER SUCH CERTIFICATES TO THE OWNER.
10. ALL CONDUCTORS SHALL BE COPPER, UNLESS NOTED OTHERWISE.
11. MINIMUM CONDUCTOR SIZE SHALL BE #12.
12. ALL CONDUIT INSTALLED INDOORS SHALL BE EMT, OTHERWISE SHALL BE IMC.
13. SWITCH AND RECEPTACLE COVER PLATES SHALL BE STAINLESS STEEL.
14. ALL DEVICES SHALL BE GRAY EXCEPT EMERGENCY POWER DEVICES WHICH SHALL BE RED.
15. ALL FUSES SHALL BE DUAL ELEMENT, TIME DELAY, RATED 100,000 AIC.
16. ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE.
17. ALL CONDUCTORS SHALL BE AS INDICATED IN SPECIFICATIONS.
18. GUTTERS (WIREWAYS) SHALL BE SIZED AS SHOWN OR AS REQUIRED BY CODE. ALL GUTTERS SHALL HAVE HINGED COVERS WITH APPROVED FASTENING DEVICES & SHALL BE A STANDARD MANUFACTURED ITEM WITH U.L. LABEL. GUTTERS FROM AC DUCT MATERIAL ARE NOT ACCEPTABLE. GUTTERS SHALL BE AS MANUFACTURED BY HOFFMAN, SQUARE "D", B & C OR APPROVED EQUAL. GUTTER TAPS SHALL BE ILSCO TYPE GTA OF PTA WITH GTC OR PTC INSULATING COVERS.
19. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR, PRIOR TO BID, TO REAFFIRM WITH THE UTILITY COMPANIES INVOLVED, THAT THE LOCATION, ARRANGEMENT (AND THE POWER COMPANY: VOLTAGE, PHASE & METERING REQUIRED) AND CONNECTIONS AT THE UTILITY SERVICE ARE IN ACCORDANCE WITH THEIR REGULATIONS & REQUIREMENTS. IF THEIR REQUIREMENTS ARE AT A VARIANCE WITH THESE DRAWINGS & SPECIFICATIONS, THE CONTRACT PRICE SHALL INCLUDE ANY ADDITIONAL COST NECESSARY TO MEET THOSE REQUIREMENTS WITHOUT EXTRA COST TO THE OWNER AFTER A CONTRACT HAS BEEN ENTERED INTO.
20. ON MANY PROJECTS, THE UTILITY COMPANY MAY LEVY CHARGES DUE TO LOCATION, SIZE OR TYPE OF SERVICE INVOLVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE CHARGES, UNLESS SUCH CHARGES ARE NOT AVAILABLE PRIOR TO BID & CONTRACTOR SO DOCUMENTS AT BID OPENING. SHOULD THE THE COST NOT BE AVAILABLE, PRIOR TO BID, THE CONTRACTOR SHALL SUBMIT A LETTER SO STATING WITH HIS BID.
21. ARRANGE WITH UTILITY COMPANIES FOR SUCH SERVICE AS SHOWN OR HEREIN SPECIFIED & INSTALLATION OF METER WHERE SHOWN. FURNISH WITH SHOP DRAWINGS, A SIGNED DOCUMENT FROM UTILITY COMPANIES DESCRIBING THE LOCATION & TYPE OF SERVICES TO BE FURNISHED AND ANY REQUIREMENTS THEY MAY HAVE. THIS DOCUMENT SHALL BE SIGNED FOR EACH UTILITY COMPANY BY A PERSON RESPONSIBLE FOR GRANTING SUCH SERVICES.
22. PAY ALL CHARGES (IF ANY) IN CONNECTION THEREWITH, INCLUDING PERMANENT METER DEPOSIT. METER DEPOSIT WILL BE REFUNDED TO THE CONTRACTOR AT TIME OF OWNER'S ACCEPTANCE.
23. ALL UNDERGROUND CONDUITS ENTERING BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE.
24. ANY CONDUIT CROSSING A STRUCTURAL EXPANSION JOINT SHALL BE PROVIDED WITH A CONDUIT EXPANSION FITTING.
25. PROVIDE PLASTIC END BUSHINGS ON ALL CONDUIT STUB OUTS ABOVE ACCESSIBLE CEILING.
26. PROVIDE LABELS FOR ALL PANELBOARDS, CABINETS, SAFETY SWITCHES, MOTOR DISCONNECT SWITCHES. LABELS SHALL BE MACHINE ENGRAVED, LAMINATED PLASTIC, PERMANENTLY ATTACHED WITH SELF TAPPING SCREWS OR RIVETS. LABEL TO INCLUDE EQUIPMENT TAG/NAME, PANEL FED FROM AND CIRCUIT NUMBER. DO NOT USE SELF ADHESIVE LABELS.
27. MECHANICAL EQUIPMENT WILL BE FURNISHED BY MECHANICAL CONTRACTOR. THE LOCATIONS SHOWN ON ELECTRICAL DRAWINGS ARE APPROXIMATE. COORDINATE WITH THE MECHANICAL CONTRACTOR TO DETERMINE THE EXACT LOCATION OF EACH PIECE OF EQUIPMENT AND DETERMINE THE EXACT ROUGH-IN AND VERIFY CONNECTION REQUIREMENTS WITH MECHANICAL EQUIPMENT SUBMITTALS.
28. VERIFY CEILING AND WALL CONSTRUCTION AND MATERIAL PRIOR TO ORDERING LIGHT FIXTURES OR OTHER DEVICES TO ENSURE PROPER FIXTURES OR DEVICE IS FURNISHED TO MATCH CONSTRUCTION. THIS VERIFICATION MUST BE EXECUTED REGARDLESS OF INFORMATION PLACED ON DRAWINGS. ANY COST INCURRED WHICH COULD HAVE BEEN AVOIDED BY THIS STEP SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
29. THOROUGHLY REVIEW AND COORDINATE ALL CASEWORK, DOOR SWINGS AND CABINET DRAWINGS AND ARCHITECTURAL ELEVATIONS WITH DEVICE LOCATIONS PRIOR TO ROUGH-IN OF OUTLET BOXES. RELOCATION OF UN-COORDINATED BOXES INSTALLED SHALL BE AT CONTRACTORS EXPENSE.
30. OWNER FURNISHED EQUIPMENT: CONTRACTOR SHALL OBTAIN CUT SHEETS, INSTALLATION DATA AND ROUGH-IN REQUIREMENTS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT AND COORDINATE ROUGH-IN AND POWER REQUIREMENTS WITH OWNERS REPRESENTATIVE PRIOR TO STARTING ASSOCIATED WORK.
31. PROVIDE #10AWG WIRE FOR ALL 120V, 20A BRANCH CIRCUITS EXCEEDING 120' AND #8AWG WIRE FOR ALL 120V, 20A BRANCH CIRCUITS EXCEEDING 180'.
32. ELECTRICAL CONTRACTOR SHALL REVIEW A/V CONTRACT DOCUMENTS FOR APPLICABLE ELECTRICAL REQUIREMENTS BEFORE BID. ELECTRICAL CONTRACTOR IS TO PROVIDE CONDUIT, BOXES AND BRANCH CIRCUITS UNLESS NOTED OTHERWISE.
33. OMITTED.
34. ALL CABLES AND CONDUCTORS, FOR ALL AUXILIARY/LOW VOLTAGE SYSTEMS INCLUDING VOICE/DATA, LIGHTING CONTROLS, SECURITY, CCTV, ACCESS CONTROL, AUDIO/VIDEO, NOT IN CONDUIT SHALL BE PLENUM RATED, NO EXCEPTIONS.
35. ALL JUNCTION BOXES SHALL BE CLEARLY MARKED WITH SYSTEM AND CIRCUIT INFORMATION.
36. MINIMUM COUNDUIT SIZE SHALL BE 3/4".
37. FINAL EQUIPMENT CONNECTIONS – CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS REQUIRED TO MAKE FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR AND/OR FURNISHED BY OTHERS. VERIFY ALL ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH IN.

EMERGENCY RESPONDER RADIO COVERAGE

1. PROVIDE EMERGENCY RESPONDER RADIO COVERAGE TESTING. WHERE COVERAGE IS FOUND NOT TO BE ADEQUATE, PROVIDE AN EMERGENCY RESPONDER COVERAGE SYSTEM AS REQUIRED BY THE AHJ. ELECTRICAL CONTRACTOR SHALL SUBMIT AT PROJECT CLOSEOUT, A CERTIFICATE OF RADIO COVERAGE COMPLIANCE SIGNED BY THE LOCAL FIRE MARSHAL. SEE SPECIFICATIONS.

GRAPHICAL ELECTRICAL SYMBOLS

GENERAL ABBREVIATIONS	
H	MOUNTING HEIGHT ABOVE FINISHED FLOOR.
AF	ABOVE FINISHED FLOOR.
WP	WEATHER PROOF – NEMA 3R
RT	RAIN TIGHT – NEMA 4.
EP	EXPLOSION PROOF.
TP	TAMPER PROOF.
A	MOUNT ABOVE COUNTER.
BC	MOUNT BELOW COUNTER.
F	FLUSH MOUNTED.
SLD	SEE SINGLE LINE DIAGRAM.
GFCI	GROUND FAULT CIRCUIT INTERRUPTING.
GFEP	GROUND FAULT EQUIPMENT PROTECTION.
C	CONDUIT.
GC	FLEXIBLE CONDUIT.
SFC	SEALTITE FLEXIBLE CONDUIT.
EMT	ELECTRICAL METALLIC TUBING.
IMC	INTERMEDIATE METALLIC CONDUIT.
RG	RIGID CONDUIT.
PVC	NONMETALLIC RIGID CONDUIT.
OFOI	OWNER FURNISHED OWNER INSTALLED
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED.

GENERAL SYMBOLS	
J	JUNCTION BOX.
J	WALL MOUNTED JUNCTION BOX.
J	WALL MOUNTED JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.
AV	WALL MOUNTED 4" SQUARE JUNCTION BOX WITH SINGLE GANG COVER PLATE, 1" CONDUIT HOMERUN TO ABOVE ACCESSIBLE CEILING AND 1 1/2" CONDUIT TO AV OUTLET BOX BELOW WHERE SHOWN. SEE DETAIL ON E103.
	WALL MOUNTED 4" SQUARE JUNCTION BOX WITH SINGLE COVER PLATE & 1" CONDUIT HOMERUN TO ABOVE ACCESSIBLE CEIILING.
S	CEILING MOUNTED SPEAKER.
M	CEILING MOUNTED MICROPHONE.
	SAFETY SWITCH, NON-FUSED.
	SAFETY SWITCH, FUSED.
	LIGHTING PANEL AND/OR RECEPTACLE PANEL.
	POWER PANEL.
F	CEILING EXHAUST FAN – FRACTIONAL.
$_T$	MANUAL MOTOR STARTER WITH THERMAL PROTECTION. LOCKABLE TYPE

CAMERA SYSTEMS AND ACCESS CONTROL SYMBOLS		
C	SURVEILLANCE SYSTEM	CAMERA. PROVIDE DATA OUTLET WHERE LOCATED ON DRAWINGS AND 1" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR ROUTING OF CAMERA CABLES BY SECURITY CONTRACTOR
CR	CARD ACCESS	CARD READER, SEE DETAIL ON E102.
PS	CARD ACCESS	POWER SUPPLY/CONTROLLER
ACP-X	CARD ACCESS	ACCESS CONTROL PANEL
CAMERA SYSTEMS AND ACCESS CONTROL NOTES		
ELECTRICAL CONTRACTOR SHALL PROVIDE EMPTY RACEWAY.		

EXIT LIGHT SYMBOLS	
XL	SINGLE FACE, NO ARROW.
XL	DOUBLE FACE, LEFT OR RIGHT ARROWS.
XL	SINGLE FACE, LEFT OR RIGHT ARROW.
XL	SINGLE FACE, LEFT AND RIGHT ARROWS.
XL	DOUBLE FACE, LEFT AND RIGHT ARROWS.
XL	SINGLE FACE, NO ARROW.
XL	SINGLE FACE, LEFT AND OR RIGHT ARROW(S).

BRANCH CIRCUIT SYMBOLS		
	BRANCH CIRCUIT	HOMERUN TO 20A, 1POLE CIRCUIT BREAKER IN PANELBOARD OR DEVICE NOTED. WIRE SIZE IS 2#12&1#12GRD-3/4"C, UNLESS NOTED OTHERWISE.
	BRANCH CIRCUIT	CONCEALED IN CEILING OR WALL. EXPOSED IN EXPOSED CEILING AREAS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES.
	BRANCH CIRCUIT	CONCEALED IN FLOOR.
EX	BRANCH CIRCUIT	EXISTING CONDUIT BARS DENOTE NEW CONDUCTORS.
	BRANCH CIRCUIT	RISER UP.
	BRANCH CIRCUIT	RISER DOWN.
BRANCH CIRCUIT NOTES		
	BRANCH CIRCUIT	2#12&1#12GRD-3/4"C , UNLESS NOTED OTHERWISE.
	BRANCH CIRCUIT	3#12&1#12GRD-3/4"C
	BRANCH CIRCUIT	4#12&1#12GRD-3/4"C
10	BRANCH CIRCUIT	2#10&1#10GRD-3/4"C
10	BRANCH CIRCUIT	3#10&1#10GRD-3/4"C
SIZE CONDUIT PER NEC FOR GREATER NUMBER OF CONDUCTORS OR AS NOTED. THE NUMBER IN THE CIRCUIT INDICATES AWG WIRE SIZE AND THE HASHMARKS INDICATE THE NUMBER OF WIRES REQUIRED. EQUIPMENT GROUND CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH NEC TABLE 250-122. THE NUMBER OF HASH MARKS DO NOT INCLUDE EQUIPMENT GROUNDING CONDUCTOR.		

ADDRESSABLE VOICE COMMUNICATION FIRE ALARM SYSTEM SYMBOLS		
F	VOICE COMM. SYSTEM	ADDRESSABLE MANUAL PULL STATION, MOUNT 48"H.
FACP	VOICE COMM. SYSTEM	LOCAL ALARM, SUPERVISORY, VOICE CONTROL, AND COMMAND CENTER.
FA	VOICE COMM. SYSTEM	ANNUNCIATOR W/MICROPHONE, FLUSH MOUNTED.
F	VOICE COMM. SYSTEM	WHITE SPEAKER AND ALARM SIGNAL LIGHT (87db, 110 CANDELLA), BOTTOM OF DEVICE MOUNTED AT 80"H. ADA APPROVED.
F	VOICE COMM. SYSTEM	WHITE ALARM SIGNAL LIGHT (110 CANDELLA), BOTTOM OF DEVICE MOUNTED AT 80"H. ADA APPROVED.
F	VOICE COMM. SYSTEM	WHITE SPEAKER (87db), BOTTOM OF DEVICE MOUNTED AT 80"H. ADA APPROVED.
	VOICE COMM. SYSTEM	ADDRESSABLE SMOKE DETECTOR, PHOTOELECTRIC.
	VOICE COMM. SYSTEM	ADDRESSABLE HEAT DETECTOR.
	VOICE COMM. SYSTEM	ADDRESSABLE SMOKE DUCT DETECTOR, PHOTOELECTRIC.
WF	VOICE COMM. SYSTEM	WATER FLOW CONNECTION.
SS	VOICE COMM. SYSTEM	SUPERVISORY CONNECTION.
Z$_C$	VOICE COMM. SYSTEM	CONTROL ZAM IN NEMA 1 ENCLOSURE.
Z$_M$	VOICE COMM. SYSTEM	MONITOR ZAM IN NEMA 1 ENCLOSURE.
	VOICE COMM. SYSTEM	MAGNETIC DOOR HOLDER.
FIRE ALARM SYSTEM NOTES		
FIRE ALARM SYSTEM WIRING SHALL BE IN CONDUIT, CONDUCTORS AS RECOMMENDED BY MANUFACTURER. ALL DEVICES SHALL BE FLUSH MOUNTED UNLESS NOTED BY "S" IN WHICH CASE THE DEVICES SHALL BE MOUNTED ON A SURFACE BOX, FURNISHED BY THE FIRE ALARM EQUIPMENT SUPPLIER, FINISHED TO MATCH THE ALARM SYSTEM EQUIPMENT. DEVICES MARKED "C" SHALL BE FLUSH MOUNTED IN CEILING OR PENDANT/SURFACE MOUNTED IN EXPOSED CEILING AREAS. SEE ARCHITECTURAL RCP FOR CEILING TYPES.		

RECEPTACLE OUTLET SYMBOLS		
	CEILING OUTLET	DUPLEX RECEPTACLE, 20A, 125V, 3WRE, NEMA 5-20R.
	WALL OUTLET	SINGLE RECEPTACLE, 20A, 250V, 3WIRE, NEMA 6-20R.
AV	FLOOR OUTLET	RECESSED DEVICES, 6" FLOOR BOX WITH DUPLEX RECEPTACLE NEMA 5-20R AND DATA OUTLET. WIREMOLD FLOOR BOX OR EQUAL.
AV	FLOOR OUTLET	RECESSED DEVICES, 6" FLOOR BOX WITH DUPLEX RECEPTACLE NEMA 5-20R, DATA OUTLET AND AV OUTLET. PROVIDE 1 1/2"EC FOR AV FROM FLOOR OUTLET TO WALL MOUNTED AV OUTLET BOX. WIREMOLD FLOOR BOX OR EQUAL. SEE DETAIL ON E103.
	WALL OUTLET	DUPLEX RECEPTACLE, 20A, 125V, 3WIRE, NEMA 5-20R.
	WALL OUTLET	DOUBLE DUPLEX RECEPTACLE, 20A, 125V, 3WIRE, NEMA 5-20R, SINGLE PLATE.
	WALL OUTLET	SINGLE RECEPTACLE, 30A, 125V, 3WIRE, NEMA L5-30R.
	WALL OUTLET	WEATHER RESISTANT, GROUND FAULT DUPLEX RECEPTACLE, 20A, 125V, WITH LOCKABLE VERTICAL METAL WEATHERPROOF IN USE COVER.
	WALL OUTLET	POP UP COUNTERTOP RECEPTACLE, 20A, 125V, 3WIRE, NEMA 5-20R.
RECEPTACLE OUTLET NOTES		
"G"	GROUND FAULT INTERRUPTER.	
"GA"	GROUND FAULT INTERRUPTER, MOUNTED ABOVE COUNTER.	
"A"	MOUNTED ABOVE COUNTER.	
"BC"	MOUNTED BELOW COUNTER.	
"DF"	FOR DRINKING FOUNTAIN.	

LIGHTING FIXTURE & CONTROL SYMBOLS		
A	CEILING OUTLET	FIXTURE TYPE "A" CIRCUIT #1.
	CEILING OUTLET	EXISTING.
	CEILING OUTLET	FLUORESCENT FIXTURE, SINGLE OR CONTINUOUS, LENGTHS AS SHOWN.
	CEILING OUTLET	FLUORESCENT STRIP.
	WALL OUTLET	BRACKET TYPE FIXTURE.
	WALL OUTLET	FLUORESCENT BRACKET TYPE FIXTURE.
$	SWITCH OUTLET	A.C. TYPE, SINGLE POLE, 20A, 125/277V.
$_3$	SWITCH OUTLET	A.C. TYPE, THREE WAY, 20A, 125/277V.
OS$_3$	SWITCH OUTLET	3 WAY, 180° DUAL TECH SENSOR LIGHTING MOTION DETECTOR, WALL MOUNTED.
$_{OS/OS1}$	SWITCH OUTLET	180° DUAL TECH SENSOR LIGHTING MOTION DETECTOR, WALL MOUNTED.
$_A$	SWITCH OUTLET	DIGITAL SWITCH. SUBSCRIPTS CORRESPOND TO DETAIL ON SHEET E106.
$_{XD}$	SWITCH OUTLET	DIGITAL SWITCH WITH DIMMING CONTROLS. SUBSCRIPTS CORRESPOND TO DETAIL ON SHEET E106.
$_{OSD}$	SWITCH OUTLET	180° DUAL TECH SENSOR LIGHTING MOTION DETECTOR, WITH DIMMING CONTROLS, WALL MOUNTED.
ZC	SWITCH OUTLET	LIGHTING ZONE CONTROLLER, SEE DETAIL ON SHEET E103.
M	SWITCH OUTLET	360° DUAL TECH SENSOR LIGHTING MOTION DETECTOR, CEILING MOUNTED.
SWITCH OUTLET NOTES		
"a" "b" ETC.	FIXTURE CORRESPONDS TO A SWITCH DENOTED WITH THE SAME LOWER CASE LETTER.	

LIGHTING FIXTURE SCHEDULE

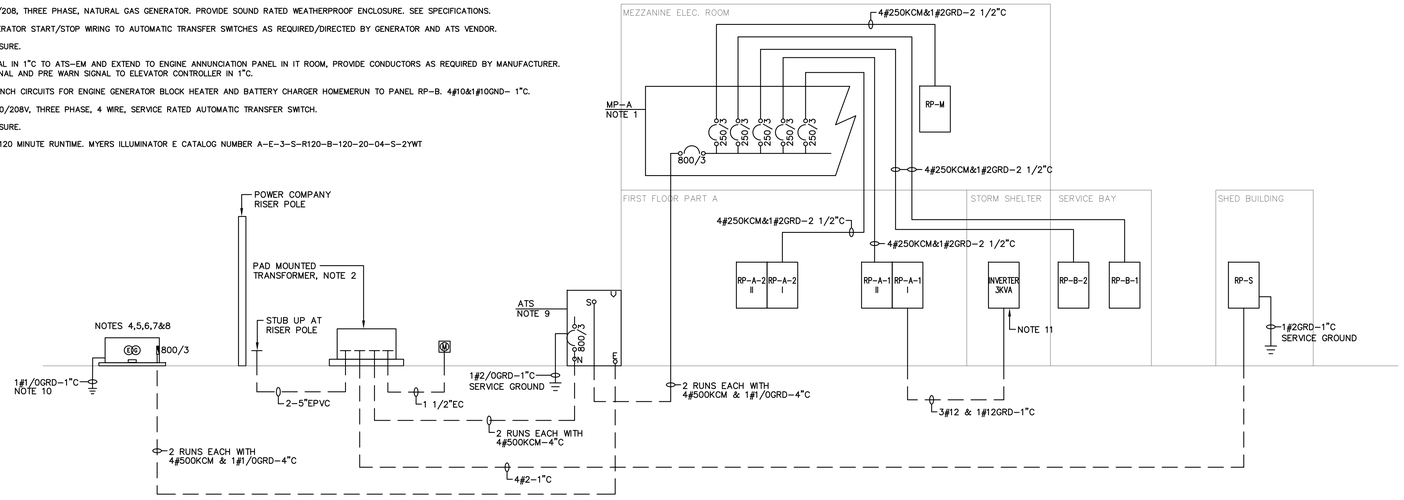
TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS: LAMP/FIX	LAMPS: WATTS	LAMPS: TYPE	MTG. TYPE	MTG. HT.	REC. DEPTH	DESCRIPTION
A	LITHONIA	STAK 2X4 4000LM 90CRI 35K COL MIN1 ZT MVOLT	LOT	–	LED	LI	C	–	2'x4' LAY-IN LED TROFFER WITH CENTER BASKET, CURVED MATTE REFLECTOR, 4000 LUMEN, 3500 COLOR, CURVED OPAL LENS, 0-10V DIMMING.
AE	LITHONIA	STAK 2X4 4000 90CRI 35 COL MIN1 ZT MVOLT E10W	LOT	–	LED	LI	C	–	2'x4' LAY-IN LED TROFFER WITH CENTER BASKET, CURVED MATTE REFLECTOR, 4000 LUMEN, 3500 COLOR, CURVED OPAL LENS, 0-10V DIMMING AND EMERGENCY BATTERY PACK.
B	LITHONIA	STAK 2X2 2000LM 90CRI 35K COL MIN1 ZT MVOLT	LOT	–	LED	LI	C	–	2'x2' LAY-IN LED TROFFER WITH CENTER BASKET, CURVED MATTE REFLECTOR, 4000 LUMEN, 3500 COLOR, CURVED OPAL LENS, 0-10V DIMMING.
BE	LITHONIA	STAK 2X2 2000LM 90CRI 35 COL MIN1 ZT MVOLT E10W	LOT	–	LED	LI	C	–	2'x2' LAY-IN LED TROFFER WITH CENTER BASKET, CURVED MATTE REFLECTOR, 4000 LUMEN, 3500 COLOR, CURVED OPAL LENS, 0-10V DIMMING AND EMERGENCY BATTERY PACK.
C	NANOCOVE	NCV95-X*-PMW-90-35K-* 750LM/FT-UNV-FDO0-DY	LOT	–	LED	S	CV	–	COVE LIGHT WITH 120 DEGREE ADJUSTABLE MOUNT CENTER AXIS, 90CRI, 3500 COLOR, 750 LM/FT, 120 DEGREE DISTRIBUTION, 0-10V DIMMING. SEE FLOOR PLAN FOR REQUIRED LENGTH AND SHAPE.
C1	NANOCOVE	NCV95-X*-PMW-90-35K-* 750LM/FT-UNV-FDO0-DY	LOT	–	LED	S	CV	–	COVE LIGHT WITH 120 DEGREE ADJUSTABLE MOUNT CENTER AXIS, 90CRI, 3500 COLOR, 750 LM/FT, 120 DEGREE DISTRIBUTION, 0-10V DIMMING. SEE FLOOR PLAN FOR REQUIRED LENGTH AND SHAPE.
C2	NANOCOVE	NCV95-X*-PMW-90-35K-* 750LM/FT-UNV-FDO0-DY	LOT	–	LED	S	CV	–	COVE LIGHT WITH 120 DEGREE ADJUSTABLE MOUNT CENTER AXIS, 90CRI, 3500 COLOR, 750 LM/FT, 120 DEGREE DISTRIBUTION, 0-10V DIMMING. SEE FLOOR PLAN FOR REQUIRED LENGTH AND SHAPE.
D	LITHONIA	IVO4 D 20LM 35K 90CRI WD MIN1 MVOLT ZT NCH P AR LSS F	LOT	–	LED	R	C	–	4" LED DOWNLIGHT WITH 2000 LUMENS, 3500K COLOR, 90 CRI, WIDE DISTRIBUTION, 0-10V DIMMING, CLEAR ANODIZED SEMI SPECULAR FINISH TRIM AND FLANGE.
DE	LITHONIA	IVO4 D 20LM 35K 90CRI WD MIN1 MVOLT ZT NCH P AR LSS F E10W	LOT	–	LED	R	C	–	4" LED DOWNLIGHT WITH 2000 LUMENS, 3500K COLOR, 90 CRI, WIDE DISTRIBUTION, 0-10V DIMMING, CLEAR ANODIZED SEMI SPECULAR FINISH TRIM AND FLANGE AND 10W EMERGENCY BATTERY PACK WITH INTERGRATED TEST SWITCH.
D1	LITHONIA	IVO4 D 15LM 35K 90CRI WD MIN1 MVOLT ZT NCH WL P AR LSS F	LOT	–	LED	R	C	–	SHOWER LIGHT. 4" LED DOWNLIGHT WITH 1500 LUMENS, 3500K COLOR, 90 CRI, WIDE DISTRIBUTION, 0-10V DIMMING, CLEAR ANODIZED SEMI SPECULAR FINISH TRIM AND FLANGE.
F	BIG ASS FANS	MAMMOTH 72" LED LIGHT KIT	LOT	–	LED			–	72" EXTERIOR FAN WITH LIGHT, FINISH SELECTED BY ARCHITECT.
H	DAY BRITE	APX-16L-L-40K-UNV	LOT	–	LED	P	16'AFF	–	14" WIDE x 52" LONG DIRECT LED HIGH BAY FIXTURE WITH 16000 LUMEN, 4000K COLOR, CLEAR ACRYLIC LENS, V CABLE HANGERS, WET LOCATION LISTED.
HE	DAY BRITE	APX-16L-L-40K-UNV-EMLED	LOT	–	LED	P	16'AFF	–	14" WIDE x 52" LONG DIRECT LED HIGH BAY FIXTURE WITH 16000 LUMEN, 4000K COLOR, CLEAR ACRYLIC LENS, V CABLE HANGERS, WET LOCATION LISTED AND EMERGENCY BATTERY PACK.
L	AYO LIGHTING	PHA-CS-D-44-B-PSC-CL NL12-935K-M-L-1D	LOT	–	LED	P	*	–	12' ARCHITECTURAL LINEAR PENDANT WITH DIRECT ORIENTATION, 4" BLACK CANOPIES, CLEAR POWER CORD,90 CRI, 3500K COLOR, 825 LUMENS/FT, 0-10V DIMMING DRIVER, SATIN CLEAR ANODIZE FINISH.
L1	AYO LIGHTING	PHA-CS-D-44-B-PSC-CL CR18-935K-M-L-1D	LOT	–	LED	P	*	–	18' ARCHITECTURAL CONTINUOUS RUN LINEAR PENDANT WITH DIRECT ORIENTATION, 4" BLACK CANOPIES, CLEAR POWER CORD, 90 CRI, 3500K COLOR, 825 LUMENS/FT, 0-10V DIMMING DRIVER, SATIN CLEAR ANODIZE FINISH.
L2	LITHONIA	CSS-L48-ALO3-MVOLT-SWW3 80CRI	LOT	–	LED	P	*	–	LED PENDANT MOUNTED STRIP FIXTURE WITH DIFFUSE POLYCARBONATE LENS, SWITCHABLE LUMENS, SWITCHABLE COLOR TEMPERATURE, MATTE WHITE FINISH.
L2E	LITHONIA	CSS-L48-ALO3-MVOLT-SWW3 80CRI-E10W	LOT	–	LED	P	*	–	LED PENDANT MOUNTED STRIP FIXTURE WITH DIFFUSE POLYCARBONATE LENS, SWITCHABLE LUMENS, SWITCHABLE COLOR TEMPERATURE, MATTE WHITE FINISH AND EMERGENCY BATTERY PACK.
L3	FOCAL POINT	FSM4LWLS-BW-1000LF-935 IC-UNV-SM-OD-BK-4'	LOT	–	LED	P	*	–	EXTERIOR 4' LINEAR SURFACE MOUNTED FIXTURE WITH 4"APERTURE, 1000 LUMENS/FT, 90CRI, 3500K COLOR TEMPERATURE AND BLACK FINISH.
P	LITHONIA	IVO4 D 35LM 35K 90CRI WD MIN1 MVOLT ZT NCH P AR LSS F SCA6	LOT	–	LED	R	C	–	4" LED DOWNLIGHT WITH 3500 LUMENS, 3500K COLOR, 90 CRI, WIDE DISTRIBUTION, 0-10V DIMMING, CLEAR ANODIZED SEMI SPECULAR FINISH TRIM, FLANGE AND SLOPED CEILING ADAPTER.
P1	INTRIGUE LIGHTING	ERA-RND-PM-37LED-4K T5-CPL-BBU-UNV-BRONZE	LOT	–	LED	P		–	EXTERIOR ARCHITECTURAL LED ROUND PENDANT WITH 42W, TYPE V DISTRIBUTION, 5400 LUMENS, PENDANT MOUNT, 4000K COLOR, CLEAR POLYCARBONATE LENS, EMERGENCY BATTERY PACK, UNIVERSAL VOLTAGE, BRONZE FINISH.
P2	VONN LIGHTING	SIENNA VAP2181-CHROME	LOT	–	LED	P	*	–	INTERIOR ARCHITECTURAL LED PENDANT WITH GLASS BALL SHAPED SHADE, CHROME FINISH, 3000K COLOR, 370 LUMENS, 6.5W, 90CRI.
P3	WILLIAMS	RND-2-L45-90-35-FCA	LOT	57W	LED	R	C		2' DIAMETER RECESSED LED FIXTURE WITH 4500 LUMENS, 90 CRI, 3500K COLOR, FROSTED CONCAVE LENS.
S	KOHLER	K-38396-SC01S-CPL POLISHED CHROME	LOT	–	LED	S	AM	–	ARCHITECTURAL LED BATHROOM CLEAR GLASS DISK ONE LIGHT VANITY FIXTURE, POLISHED CHROME FINISH.
S1	LUMENS	RBW2063053	LOT	–	LED	S	W	–	EXTERIOR ARCHITECTURAL SCONCE WITH 650 LUMENS, 9W, 2700K COLOR, DEPTH 6", DIAMETER 14", MATTE BLACK FINISH, UL LISTED WET LOCATION.
S2	LUMENS	RBW2063052	LOT	–	LED	S	W	–	INTERIOR ARCHITECTURAL SCONCE WITH 650 LUMENS, 9W, 2700K COLOR, DEPTH 4", DIAMETER 8", MATTE BLACK FINISH, UL LISTED WET LOCATION.
UC	LITHONIA	UPLD-*-3500K-WH SEE FLOOR PLAN FOR LENGTH	LOT	–	LED	S		–	LED SWIVEL UNDER CABINET LIGHT FIXTURE WITH 3500K COLOR, 90CRI AND WHITE FINISH. PROVIDE ROW CONNECTOR FOR CONTINUOUS ROW. SEE FLOOR PLAN FOR LENGTH. COORDINATE WILL MILLWORK CONTRACTOR.
W	LITHONIA	WDGE1 LED-P2-40K-VW MVOLT-E4WH-DDBXD	LOT	–	LED	W	*	–	EXTERIOR WALL MOUNTED TRAPEZOIDAL FIXTURE WITH 1800 LUMENS, 4000K COLOR, EMERGENCY BATTERY PACK. DARK BRONZE FINISH.
W1	LITHONIA	WDGE2 LED-P5-40K-VW MVOLT-PE-DDBXD	LOT	–	LED	W	*	–	EXTERIOR WALL MOUNTED TRAPEZOIDAL FIXTURE WITH 6000 LUMENS, 4000K COLOR, PHOTOCELL. DARK BRONZE FINISH.
Y	LITHONIA	DSX0 LED P7 40K T4M MVOLT PHOTOCELL – DDBXD 20' 4" SQUARE 7G STEEL STRAIGHT STEEL POLE.	LOT	–	LED	POLE	23'AFF	–	POLE MOUNTED LED AREA LIGHT WITH 18000 LUMEN OUTPUT, 4000K COLOR, TYPE IV DISTRIBUTION, PHOTOCELL AND DARK BRONZE FINISH. 20' 4" SQUARE STRAIGHT STEEL POLE, 7 GAUGE STEEL.
Y1	LITHONIA	DSX0 LED P7 40K T5W MVOLT PHOTOCELL 20' 4" SQUARE 7G STEEL STRAIGHT STEEL POLE.	LOT	–	LED	POLE	23'AFF	–	POLE MOUNTED LED AREA LIGHT WITH 18000 LUMEN OUTPUT, 4000K COLOR, TYPE V DISTRIBUTION, PHOTOCELL AND DARK BRONZE FINISH. 20' 4" SQUARE STRAIGHT STEEL POLE, 7 GAUGE STEEL.
FP	LITHONIA	DSXF1 LED P2 40K NSP YKC62-PE-DDBXD	LOT	–	LED		*	–	FLAG POLE LED FLOOD LIGHT WITH 4000K COLOR TEMPERATURE, 5000 LUMEN OUTPUT, NARROW SPOT DISTRIBUTION, PHOTOCELL, YOKE MOUNT AND DARK BRONZE FINISH.
FM	LITHONIA	DSXF1 LED P1 40K WFL YKC62-PE-DDBXD	LOT	–	LED		*	–	MONUMENT SIGN LED FLOOD LIGHT WITH 4000K COLOR TEMPERATURE, 3000 LUMEN OUTPUT, WIDE FLOOD DISTRIBUTION, PHOTOCELL, YOKE MOUNT AND D

GENERAL NOTES:

1. ALL UNDERGROUND CONDUITS ENTERING BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE.
2. ELECTRICAL EQUIPMENT LIKELY TO REQUIRE EXAMINATION WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN PERSONNEL OF POTENTIAL ARC FLASH HAZARDS. THIS SHALL BE FURNISHED FROM THE FACTORY.
3. THE SERVICE EQUIPMENT SHALL BE FIELD MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT ALONG WITH THE DATE THE CALCULATION WAS PERFORMED.
4. ALL WORKING SPACE REQUIREMENTS AROUND ELECTRICAL EQUIPMENT SHALL BE STRICTLY ADHERED TO BY ALL TRADES.
5. COORDINATE ELECTRICAL SERVICE AND METERING REQUIREMENTS WITH UTILITY COMPANY BEFORE BID. PROVIDE PER POWER COMPANY REQUIREMENTS.

NOTES:

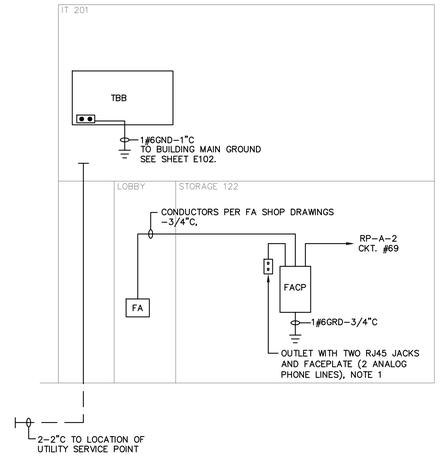
1. PROVIDE 2"X3" ENGRAVED LABEL WITH BLUE LETTERING INDICATING MAXIMUM AVAILABLE FAULT CURRENT AND DATE OF CALCULATION.
2. UTILITY PAD MOUNTED TRANSFORMER. FURNISH AND INSTALL CONCRETE PAD PER POWER COMPANY REQUIREMENTS. CONTACT UTILITY COMPANY FOR PAD SPECIFICATIONS AND REQUIRED TERMINATIONS AT TRANSFORMER BEFORE BID AND PRICING. INCLUDE COSTS IN BID. COORDINATE EXACT LOCATION OF TRANSFORMER, PROVIDE CLEARANCES AS REQUIRED BY POWER COMPANY.
3. SERVICE DISCONNECT SHALL BE MOUNTED SUCH THAT CENTER OF OPERATING HANDLE SHALL NOT BE LESS THAN 4' AND NOT MORE THAN 6'-7" ABOVE GRADE.
4. PAD MOUNTED 250KVA, 120/208, THREE PHASE, NATURAL GAS GENERATOR. PROVIDE SOUND RATED WEATHERPROOF ENCLOSURE. SEE SPECIFICATIONS.
5. PROVIDE CONTROL AND GENERATOR START/STOP WIRING TO AUTOMATIC TRANSFER SWITCHES AS REQUIRED/DIRECTED BY GENERATOR AND ATS VENDOR.
6. BOND TO GENERATOR ENCLOSURE.
7. HOMERUN START/STOP SIGNAL IN 1"C TO ATS-EM AND EXTEND TO ENGINE ANNUNCIATION PANEL IN IT ROOM, PROVIDE CONDUCTORS AS REQUIRED BY MANUFACTURER. PROVIDE GENERATOR ON SIGNAL AND PRE WARN SIGNAL TO ELEVATOR CONTROLLER IN 1"C.
8. PROVIDE TWO 20A 120V BRANCH CIRCUITS FOR ENGINE GENERATOR BLOCK HEATER AND BATTERY CHARGER HOMEMERUN TO PANEL RP-B. 4#10&1#10GND- 1"C.
9. NEMA 3R, 3 POLE, 800A, 120/208V, THREE PHASE, 4 WIRE, SERVICE RATED AUTOMATIC TRANSFER SWITCH.
10. BOND TO GENERATOR ENCLOSURE.
11. 3KVA INVERTER RATED FOR 120 MINUTE RUNTIME. MYERS ILLUMINATOR E CATALOG NUMBER A-E-3-S-R120-B-120-20-04-S-2YWT



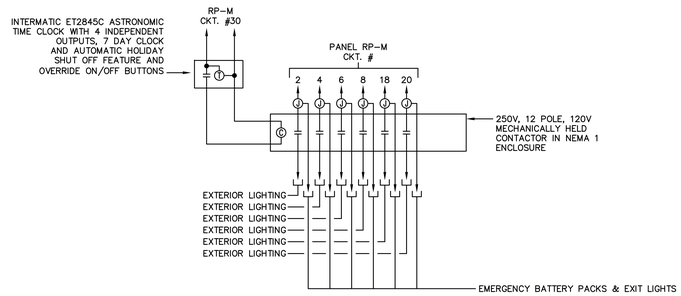
SINGLE LINE DIAGRAM
POWER
NOT TO SCALE

NOTES:

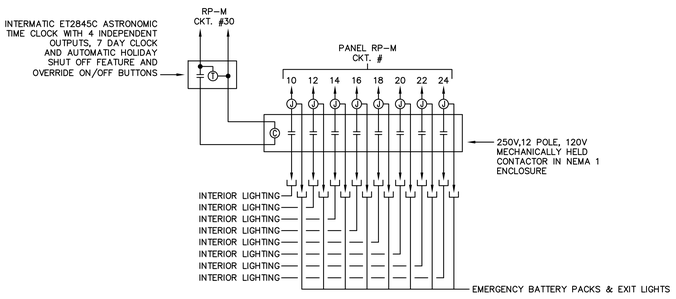
1. CABLES SHALL BE INSTALLED IN DEDICATED 1" CONDUIT AND HOMERUN TO TBB.



SINGLE LINE DIAGRAM
FIRE ALARM & TELECOM
NOT TO SCALE



WIRING DIAGRAM
CONTACTOR C-2
NOT TO SCALE



WIRING DIAGRAM
CONTACTOR C-1
NOT TO SCALE

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JASPER WATERWORKS - NEW BUILD
3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER: 23031-A

DATE: 06/29/26

PRINTED / REVISIONS

#	DESCRIPTION	DATE

SHEET TITLE: SINGLE LINE DIAGRAMS

SHEET NUMBER: E101

PANEL LOAD SUMMARY

Panel: RP-A-1 (SECTION I)

Equipment	LIGHT	RCPT	O/M	CB SIZE	CIRCUIT #	PHASE A	PHASE B	PHASE C	CIRCUIT #	CB SIZE	LIGHT	RCPT	O/M	Equipment
F-7			1584	15/1	1	3322			2	35/2			1738	CU-6
F-8			1584	15/1	3		3322		4				1738	
F-10			1584	20/1	5			3322	6	35/2			1738	CU-7
HP-1			1996	25/2	7	3734			8				1738	
			1996		9		3734		10	35/2			1738	CU-8
HP-2			1996	25/2	11			3734	12				1738	
			1996		13	4117			14	40/2			2121	CU-9
OFFICE 137 RECEPT		1200		20/1	15		3321		16				2121	
CORRIDOR RECEPT		600		20/1	17			1800	18	20/1		1200		OFFICE 139 RECEPT
OFFICE 140 RECEPT		1200		20/1	19	2400			20	20/1		1200		OFFICE 142 RECEPT
CORRIDOR RECEPT		600		20/1	21		800		22	20/1		200		MEN 149 RECEPT
WOMEN 147 RECEPT		200		20/1	23			1200	24	20/1		1000		CORRIDOR RECEPT
PATIO 167 RECEPTACLE		400		20/1	25	1000			26	20/1		600		CLASSROOM 146 RECEPT
CLASSROOM 146 RECEPT		800		20/1	27		1600		28	20/1		800		CLASSROOM PROJECTOR
CLASSROOM 146 RECEPT		600		20/1	29			1200	30	20/1		600		CLASSROOM 146 RECEPT
CLASSROOM FLOOR RECEPT		200		20/1	31	400			32	20/1		200		CLASSROOM FLOOR RECEPT
CLASSROOM FLOOR RECEPT		200		20/1	33		600		34	20/1		400		BREAK 150 RECEPT
BREAK ISLAND RECEPT		800		20/1	35			1200	36	20/1(GFCI)		400		BREAK ISLAND RECEPT
BREAK 150 RECEPT		600		20/1	37	1200			38	20/1		600		BREAK 150 RECEPT
BREAK 150 FRIDGE		800		20/1	39		1400		40	20/1		600		BREAK 150 RECEPT
BREAK 150 FRIDGE		800		20/1	41			1400	42	20/1		600		BREAK 150 ICE MAKER
Sub-Total	0	9000	12736			16173	14777	13856			0	8400	14670	Sub-Total

	TOTAL CONNECTED LOAD PER PHASE(VA)		
LOAD TYPE	Phase A	Phase B	Phase C
LIGHTING	0.00	0.00	0.00
RECEPTACLES	5000.00	5600.00	6800.00
MOTORS/OTHER	11173.00	9177.00	7056.00
TOTAL	16173.00	14777.00	13856.00

ENCLOSURE	NEMA 1
MOUNTING	FLUSH
MAIN TYPE	ML
SIZE	250A
FEED THRU	YES
FEED	TOP
BUS RATING	250A
SERVICE RATED	NO
MIN FULL EQUIP KAIC RATING	42
TYPE	NQOD
MANUFACTURER	SQUARE D
OTHER	
VOLTS 120/ 208	V 3 Phase, 4 Wire & Grd Bus Bar

Panel: RP-A-1 (SECTION II)

Equipment	LIGHT	RCPT	O/M	CB SIZE	CIRCUIT #	PHASE A	PHASE B	PHASE C	CIRCUIT #	CB SIZE	LIGHT	RCPT	O/M	Equipment
BREAK 150 MICROWAVE		1000		20/1	43	1600			44	20/1		600		BREAK 150 DISHWASHER
BREAK 150 OVEN		800		40/2	45		1800		46	20/1		1000		BREAK 150 MICROWAVE
		800			47			800	48	20/1				SPARE
SPARE				20/1	49	600			50	20/1		600		LOCKER 158 RECEPTACLE
RESTROOM 155 RECEPT		400		20/1	51		800		52	20/1		400		RESTROOM 155 RECEPT
SHELTER 153		400		20/1	53			600	54	15/1			200	EF-5
SPARE				20/1	55	200			56	20/1		200		EXTERIOR RECEPTACLE
SPARE				20/1	57		0		58	20/1				SPARE
IINVERTER				20/2	59			0	60	20/1				SPARE
					61	0			62	20/1				SPARE
SPARE				20/1	63		0		64	20/1				SPARE
SPARE				20/1	65			0	66	20/1				SPARE
SPARE				20/1	67	0			68	20/1				SPARE
SPARE				20/1	69		0		70	20/1				SPARE
SPARE				20/1	71			0	72	20/1				SPARE
SPARE				20/1	73	0			74	20/1				SPARE
SPARE				20/1	75		0		76	20/1				SPARE
SPARE				20/1	77			0	78	20/1				SPARE
SPARE				20/1	79	0			80	20/1				SPARE
SPARE				20/1	81		0		82	20/1				SPARE
SPARE				20/1	83			0	84	20/1				SPARE
Sub-Total	0	3400	0			2400	2600	1400			0	2800	200	Sub-Total

	TOTAL CONNECTED LOAD PER PHASE(VA)			DEMAND FACTOR	DEMAND LOAD (VA)			WIRE SIZE CALCULATIONS				ENCLOSURE	NEMA 1
LOAD TYPE	Phase A	Phase B	Phase C		Phase A	Phase B	Phase C	LARGEST PHASE DEMAND	16.54	KVA		MOUNTING	FLUSH
LIGHTING	0.00	0.00	0.00	1.25	0.00	0.00	0.00	NO. OF PHASES	3.00			MAIN TYPE	ML
RECEPTACLES	7400.00	8200.00	8000.00	*	5366.50	5766.50	5666.50	DEMAND LOAD	49.62	KVA		SIZE	250A
MOTORS/OTHER	11173.00	9177.00	7256.00	1.00	11173.00	9177.00	7256.00	TOTAL DESIGN LOAD	49.62	KVA		FEED THRU	YES
TOTAL	18573.00	17377.00	15256.00		16539.50	14943.50	12922.50	SUPPLY VOLTAGE	208.00	V		FEED	TOP
												BUS RATING	250A
												SERVICE RATED	NO
TOTAL CONNECTED LIGHTING LOAD			0.00	KVA				MINIMUM CCT AMPS	137.73	AMPS		MIN FULL EQUIP KAIC RATING	42
TOTAL CONNECTED RECEPTACLE LOAD			23.60	KVA								TYPE	NQOD
TOTAL CONNECTED MOTOR/OTHER LOAD			27.61	KVA								MANUFACTURER	SQUARE D
TOTAL CONNECTED LOAD			51.21	KVA								OTHER	

* Diversified per NEC Table 220.13.

VOLTS 120/ 208 — V 3 Phase, 4 Wire & Grd Bus Bar

PANEL LOAD SUMMARY

Panel: MP-A

Equipment	LIGHT	RCPT	O/M	CB SIZE	CIRCUIT #	PHASE A	PHASE B	PHASE C	CIRCUIT #	CB SIZE	LIGHT	RCPT	O/M	Equipment
		800			1	19873			2		500	7400	11173	
RP-M	1000	400		250/3	3		19777		4	250/3		9200	9177	RP-A-1
	1000	200			5			16556	6		500	7800	7056	
SPARE					7	29100			8			14200	14900	
				250/3	9		25401		10	250/3	500	12800	12101	RP-A-2
					11			24301	12			12200	12101	
	1000	3040	8092		13	12132			14	20/1				SPARE
RP-B-1	1500	1400	8092	250/3	15		10992		16	20/1				SPARE
	1000	3040	5596		17			9636	18	20/1				SPARE
	1000	2000	6844		19	9844			20	20/1				SPARE
RP-B-2	1500	1000	6844	250/3	21		9344		22	20/1				SPARE
	1300	1800	5596		23			8696	24	20/1				SPARE
SPARE				20/1	25	0			26	20/1				SPARE
SPARE				20/1	27		0		28	20/1				SPARE
SPARE				20/1	29			0	30	20/1				SPARE
SPARE				20/1	31	0			32	20/1				SPARE
SPARE				20/1	33		0		34	20/1				SPARE
SPARE				20/1	35			0	36	20/1				SPARE
SPARE				20/1	37	0			38	20/1				SPARE
SPARE				20/1	39		0		40	20/1				SPARE
SPARE				20/1	41			0	42	20/1				SPARE
Sub-Total	9300	13680	41064			70949	65514	59189			1500	63600	66508	Sub-Total

	TOTAL CONNECTED LOAD PER PHASE(VA)			DEMAND FACTOR	DEMAND LOAD (VA)			WIRE SIZE CALCULATIONS				ENCLOSURE	NEMA 1
LOAD TYPE	Phase A	Phase B	Phase C		Phase A	Phase B	Phase C	LARGEST PHASE DEMAND	59.52	KVA		MOUNTING	SURFACE
LIGHTING	2500.00	4500.00	3800.00	1.25	3125.00	5625.00	4750.00	NO. OF PHASES	3.00			MAIN TYPE	MB
RECEPTACLES	27440.00	24800.00	25040.00	*	15386.50	14066.50	14186.50	DEMAND LOAD	178.56	KVA		SIZE	800A
MOTORS/OTHER	41009.00	36214.00	30349.00	1.00	41009.00	36214.00	30349.00	TOTAL DESIGN LOAD	178.56	KVA		FEED THRU	YES
TOTAL	70949.00	65514.00	59189.00		59520.50	55905.50	49285.50	SUPPLY VOLTAGE	208.00	V		FEED	BOTTOM
												BUS RATING	800A
												SERVICE RATED	YES
TOTAL CONNECTED LIGHTING LOAD			10.80	KVA				MINIMUM CCT AMPS	495.64	AMPS		MIN FULL EQUIP KAIC RATING	42
TOTAL CONNECTED RECEPTACLE LOAD			77.28	KVA								TYPE	I-LINE
TOTAL CONNECTED MOTOR/OTHER LOAD			107.57	KVA								MANUFACTURER	SQUARE D
TOTAL CONNECTED LOAD			195.65	KVA								OTHER	TVSS

* Diversified per NEC Table 220.13.

VOLTS 120/ 208 — V 3 Phase, 4 Wire & Grd Bus Bar

PANEL LOAD SUMMARY

Panel: RP-M

Equipment	LIGHT	RCPT	O/M	CB SIZE	CIRCUIT #	PHASE A	PHASE B	PHASE C	CIRCUIT #	CB SIZE	LIGHT	RCPT	O/M	Equipment
TBB RECEPTACLE		400		20/1	1	1600			2	20/1	1200			SITE LIGHTING
TBB RECEPTACLE		400		20/1	3		1600		4	20/1	1200			SITE LIGHTING
IT 201 RECEPTACLE		200		20/1	5			1400	6	20/1	1200			SITE LIGHTING
MEZZANINE RECEPTACLE		400		20/1	7	800			8	20/1	400			EXTERIOR LIGHTING
MEZZANINE LIGHTING	1000			20/1	9		1800		10	20/1	800			INTERIOR LIGHTING
MEZZANINE LIGHTING	1000			20/1	11			1800	12	20/1	800			INTERIOR LIGHTING
SPARE				20/1	13	800			14	20/1	800			INTERIOR LIGHTING
MECH PLATFORM RECEPT		200		20/1	15		1000		16	20/1	800			INTERIOR LIGHTING
MECH PLATFORM RECEPT		200		20/1	17			1000	18	20/1	800			INTERIOR LIGHTING
GWH-1			400	20/1	19	1200			20	20/1	800			INTERIOR LIGHTING
GWH-2			400	20/1	21		1200		22	20/1	800			INTERIOR LIGHTING
CP-1			200	20/1	23			1000	24	20/1	800			INTERIOR LIGHTING
SPARE				20/1	25	400			26	20/1	400			EXTERIOR LIGHTING
SPARE				20/1	27		400		28	20/1	400			EXTERIOR LIGHTING
SPARE				20/1	29			200	30	20/1	200			TIME CLOCK C1 & C2
SPARE				20/1	31	0			32	20/1				SPARE
SPARE				20/1	33		0		34	20/1				SPARE
SPARE				20/1	35			0	36	20/1				SPARE
SPARE				20/1	37	0			38	20/1				SPARE
SPARE				20/1	39		0		40	20/1				SPARE
SPARE				20/1	41			0	42	20/1				SPARE
Sub-Total	2000	1800	1000			4800	6000	5400			11400	0	0	Sub-Total

	TOTAL CONNECTED LOAD PER PHASE(VA)			DEMAND FACTOR	DEMAND LOAD (VA)			WIRE SIZE CALCULATIONS				ENCLOSURE	NEMA 1
LOAD TYPE	Phase A	Phase B	Phase C		Phase A	Phase B	Phase C	LARGEST PHASE DEMAND	6.00	KVA		MOUNTING	SURFACE
LIGHTING	3600.00	5000.00	4800.00	1.00	3600.00	5000.00	4800.00	NO. OF PHASES	3.00			MAIN TYPE	MB
RECEPTACLES	800.00	600.00	400.00	*	800.00	600.00	400.00	DEMAND LOAD	18.00	KVA		SIZE	250A
MOTORS/OTHER	400.00	400.00	200.00	1.00	400.00	400.00	200.00			KVA		FEED THRU	YES
TOTAL	4800.00	6000.00	5400.00		4800.00	6000.00	5400.00	TOTAL DESIGN LOAD	18.00	KVA		FEED	BOTTOM
								SUPPLY VOLTAGE	208.00	V		BUS RATING	250A
												SERVICE RATED	NO
TOTAL CONNECTED LIGHTING LOAD			13.40	KVA				MINIMUM CCT AMPS	49.96	AMPS		MIN FULL EQUIP KAIC RATING	42
TOTAL CONNECTED RECEPTACLE LOAD			1.80	KVA								TYPE	NQOD
TOTAL CONNECTED MOTOR/OTHER LOAD			1.00	KVA								MANUFACTURER	SQUARE D
TOTAL CONNECTED LOAD			16.20	KVA								OTHER	TVSS

* Diversified per NEC Table 220.13.

VOLTS 120/ 208 — V 3 Phase, 4 Wire & Grd Bus Bar

PANEL LOAD SUMMARY

Panel: RP-A-2 (SECTION I)

Equipment	LIGHT	RCPT	O/M	CB SIZE	CIRCUIT #	PHASE A	PHASE B	PHASE C	CIRCUIT #	CB SIZE	LIGHT	RCPT	O/M	Equipment
EXTERIOR RECEPTACLE		200		20/1	1	1200			2	20/1		1000		BOARD ROOM RECEPT
BOARDROOM RECEPT		400		20/1	3		1000		4	20/1		600		BOARDROOM RECEPT
BOARDROOM RECEPT		600		20/1	5			1400	6	20/1		800		LOBBY RECEPTACLE
ROOM 103 & 104 RECEPT		800		20/1	7	1600			8	20/1		800		CORRIDOR RECEPT
OFFICE 129 RECEPT		1200		20/1	9		1400		10	20/1		200		BATHROOM 129 RECEPT
BATHROOM 133 RECEPT		200		20/1	11			1400	12	20/1		1200		OFFICE 134 RECEPT
OFFICE 132 RECEPT		1200		20/1	13	2000			14	20/1		800		CONFERENCE 121 RECEPT
CONFERENCE 121 RECEPT		400		20/1	15		1200		16	20/1		800		BREAK 126 ICE MAKER
CUST. SERV. 105 RECEPT		800		20/1	17			1800	18	20/1		1000		WORKROOM 106 COPIER
WORKROOM 106 RECEPT		600		20/1	19	1600			20	20/1		1000		WORKROOM 106 RECEPT
WORKROOM 106 RECEPT		800		20/1	21		1400		22	20/1		600		LOBBY / TOILET 102 RECEPT
OFFICE 108 RECEPT		1000		20/1	23			2000	24	20/1		1000		OFFICE 110 RECEPT
OFFICE 111 RECEPT		1200		20/1	25	2400			26	20/1		1200		OFFICE 112 RECEPT
CORRIDOR & STORAGE		1200		20/1	27		2400		28	20/1		1200		OFFICE 115 RECEPTACLE
VAULT RECEPTACLE		200		20/1	29			400	30	20/1		200		MENS 119 RECEPT
WOMENS 120 RECEPT		200		20/1	31	1200			32	20/1		1000		DRINING FOUNTAIN
OFFICE 145 RECEPTACLE		1200		20/1	33		2400		34	20/1		1200		OFFICE 144 RECEPTACLE
OFFICE 141 RECEPTACLE		800		20/1	35			1600	36	20/1		800		OFFICE 141 RECEPTACLE
OFFICE 135 RECEPT		1000		20/1	37	1600			38	20/1		600		OFFICE 135 RECEPT
PLOTTER 136 RECEPT		800		20/1	39		1000		40	20/1		200		PLOTTER 136 RECEPT
PLOTTER 136 RECEPT		800		20/1	41			1200	42	20/1		400		PATIO RECEPTACLE
Sub-Total	0	15600	0			11600	10800	9800			0	16600	0	Sub-Total

	TOTAL CONNECTED LOAD PER PHASE(VA)		
LOAD TYPE	Phase A	Phase B	Phase C
LIGHTING	0.00	0.00	0.00
RECEPTACLES	11600.00	10800.00	9800.00
MOTORS/OTHER	0.00	0.00	0.00
TOTAL	11600.00	10800.00	9800.00

ENCLOSURE	NEMA 1
MOUNTING	FLUSH
MAIN TYPE	ML
SIZE	250A
FEED THRU	YES
FEED	TOP
BUS RATING	250A
SERVICE RATED	NO
MIN FULL EQUIP KAIC RATING	42
TYPE	NQOD
MANUFACTURER	SQUARE D
OTHER	
VOLTS 120/ 208	V 3 Phase, 4 Wire & Grd Bus Bar

Panel: RP-A-2 (SECTION II)

Equipment	LIGHT	RCPT	O/M	CB SIZE	CIRCUIT #	PHASE A	PHASE B	PHASE C	CIRCUIT #	CB SIZE	LIGHT	RCPT	O/M	Equipment
CU-1			2537	50/2	43	5074			44	50/2			2537	CU-3
			2537		45		5074		46				2537	
CU-2			2537	50/2	47			5074	48	50/2			2537	CU-4
			2537		49	5074			50				2537	
CU-10			2121	40/2	51		3859		52	35/2			1738	CU-5
			2121		53			3859	54				1738	
F-1			1584	20/1	55	2584			56	20/1		1000		BREAK 126 RECEPT
F-2			1584	20/1	57		2384		58	20/1		800		BREAK 126 FRIDGE
F-3			1584	20/1	59			2184	60	20/1		600		BREAK 126 COUNTER
F-4			1584	20/1	61	2384			62	20/1		800		BREAK 126 DISHWASHER
F-5			1584	15/1	63		2584		64	20/1		1000		BREAK 126 MICROWAVE
F-6			1584	15/1	65			2384	66	40/2		800		BREAK 126 OVEN
F-9			1584	20/1	67	2384			68			800		
FACP		400		20/1	69		400		70	20/1				SPARE
SPARE				20/1	71			1000	72	20/1		1000		GATE POWER
SPARE				20/1	73	0			74	20/1				SPARE
SPARE				20/1	75		0		76	20/1				SPARE
SPARE				20/1	77			0	78	20/1				SPARE
SPARE				20/1	79	0			80	20/1				SPARE
SPARE				20/1	81		0		82	20/1				SPARE
SPARE				20/1	83			0	84	20/1				SPARE
Sub-Total	0	400	25478			17500	14301	14501			0	6800	13624	Sub-Total

	TOTAL CONNECTED LOAD PER PHASE(VA)			DEMAND FACTOR	DEMAND LOAD (VA)			WIRE SIZE CALCULATIONS				ENCLOSURE	NEMA 1
LOAD TYPE	Phase A	Phase B	Phase C		Phase A	Phase B	Phase C	LARGEST PHASE DEMAND	23.67	KVA		MOUNTING	FLUSH
LIGHTING	0.00	0.00	0.00	1.25	0.00	0.00	0.00	NO. OF PHASES	3.00			MAIN TYPE	ML
RECEPTACLES	14200.00	13000.00	12200.00	*	8766.50	8166.50	7766.50	DEMAND LOAD	71.00	KVA		SIZE	250A
MOTORS/OTHER	14900.00	12101.00	12101.00	1.00	14900.00	12101.00	12101.00		0.00	KVA		FEED THRU	YES
TOTAL	29100.00	25101.00	24301.00		23666.50	20267.50	19867.50	TOTAL DESIGN LOAD	71.00	KVA		FEED	TOP
								SUPPLY VOLTAGE	208.00	V		BUS RATING	250A
												SERVICE RATED	NO
TOTAL CONNECTED LIGHTING LOAD			0.00	KVA				MINIMUM CCT AMPS	197.07	AMPS		MIN FULL EQUIP KAIC RATING	42
TOTAL CONNECTED RECEPTACLE LOAD			39.40	KVA								TYPE	NQOD
TOTAL CONNECTED MOTOR/OTHER LOAD			39.10	KVA								MANUFACTURER	SQUARE D
TOTAL CONNECTED LOAD			78.50	KVA								OTHER	

* Diversified per NEC Table 220.13.

VOLTS 120/ 208 — V 3 Phase, 4 Wire & Grd Bus Bar

PANEL LOAD SUMMARY

Panel: RP-S

Equipment	LIGHT	RCPT	O/M	CB SIZE	CIRCUIT #	PHASE A	PHASE B	PHASE C	CIRCUIT #	CB SIZE	LIGHT	RCPT	O/M	Equipment
LIGHTING	750			20/1	1	750			2	20/1				SPARE
LIGHTING	750			20/1	3		750		4	20/1				SPARE
LIGHTING	750			20/1	5			750	6	20/1				SPARE
LIGHTING	750			20/1	7	750			8	20/1				SPARE
EXTERIOR LIGHTING	400			20/1	9		400		10	20/1				SPARE
RECEPTACLES		600		20/1	11			600	12	20/1				SPARE
RECEPTACLES		600		20/1	13	600			14	20/1				SPARE
RECEPTACLES		600		20/1	15		600		16	20/1				SPARE
SPARE				20/1	17			0	18	20/1				SPARE
SPARE				20/1	19	0			20	20/1				SPARE
SPARE				20/1	21		0		22	20/1				SPARE
SPARE				20/1	23			0	24	20/1				SPARE
SPARE				20/1	25	0			26	20/1				SPARE
SPARE				20/1	27		0		28	20/1				SPARE
SPARE				20/1	29			0	30	20/1				SPARE
SPARE				20/1	31	0			32	20/1				SPARE
SPARE				20/1	33		0		34	20/1				SPARE
SPARE				20/1	35			0	36	20/1				SPARE
SPARE				20/1	37	0			38	20/1				SPARE
SPARE				20/1	39		0		40	20/1				SPARE
SPARE				20/1	41			0	42	20/1				SPARE
Sub-Total	3400	1800	0			2100	1750	1350			0	0	0	Sub-Total

	TOTAL CONNECTED LOAD PER PHASE(VA)			DEMAND FACTOR	DEMAND LOAD (VA)			WIRE SIZE CALCULATIONS				ENCLOSURE	NEMA 1
LOAD TYPE	Phase A	Phase B	Phase C		Phase A	Phase B	Phase C	LARGEST PHASE DEMAND	2.10	KVA		MOUNTING	SURFACE
LIGHTING	1500.00	1150.00	750.00	1.00	1500.00	1150.00	750.00	NO. OF PHASES	3.00			MAIN TYPE	MB
RECEPTACLES	600.00	600.00	600.00	*	600.00	600.00	600.00	DEMAND LOAD	6.30	KVA		SIZE	100A
MOTORS/OTHER	0.00	0.00	0.00	1.00	0.00	0.00	0.00			KVA		FEED THRU	YES
TOTAL	2100.00	1750.00	1350.00		2100.00	1750.00	1350.00	TOTAL DESIGN LOAD	6.30	KVA		FEED	BOTTOM
								SUPPLY VOLTAGE	208.00	V		BUS RATING	100A
												SERVICE RATED	YES
TOTAL CONNECTED LIGHTING LOAD			3.40	KVA				MINIMUM CCT AMPS	17.49	AMPS		MIN FULL EQUIP KAIC RATING	42
TOTAL CONNECTED RECEPTACLE LOAD			1.80	KVA								TYPE	NQOD
TOTAL CONNECTED MOTOR/OTHER LOAD			0.00	KVA								MANUFACTURER	SQUARE D
TOTAL CONNECTED LOAD			5.20	KVA								OTHER	TVSS

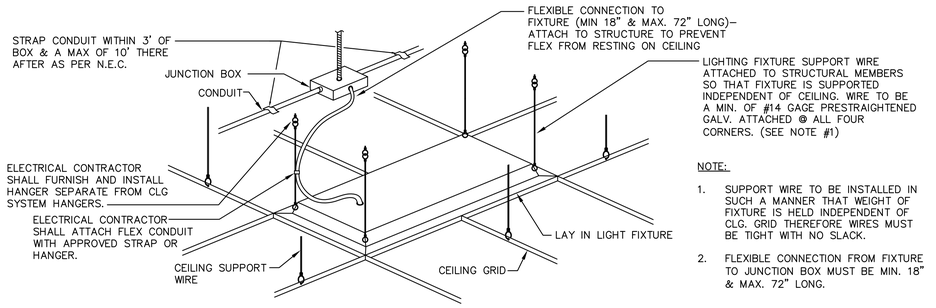
* Diversified per NEC Table 220.13.

VOLTS 120/ 208 — V 3 Phase, 4 Wire & Grd Bus Bar

PANEL LOAD SUMMARY

Panel: RP-B-1

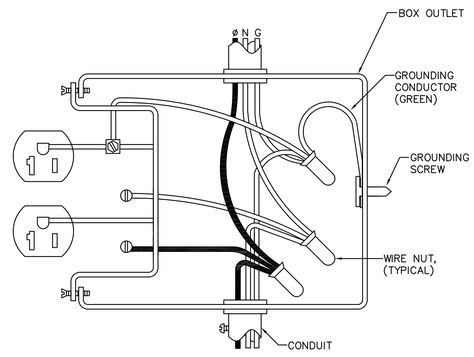
Equipment	LIGHT	RCPT	O/M	CB SIZE	CIRCUIT #	PHASE A	PHASE B	PHASE C	CIRCUIT #	CB SIZE	LIGHT	RCPT	O/M	Equipment
ROLL UP DOOR			1248	25/2	1	2048			2	20/2			800	EF-1
			1248		3		2048		4				800	
BAY 1 RECEPTACLES		600		20/1	5			1400	6	20/2			800	EF-2
WASHER		800		20/1	7	1600			8				800	
DRYER		600		30/2	9		1000		10	20/1(GFCI)		400		CORD REEL
		600			11			1000	12	20/1(GFCI)		400		CORD REEL
ROLL UP DOOR			1248	25/2	13	1648			14	20/1		400		RAIDIANT HEATER
			1248		15		1648		16	20/1		400		RADIANT HEATER
ROLL UP DOOR			1248	25/2	17			1448	18	20/1		200		BAY 2 RECEPTACLE
			1248		19	1448			20	20/1		200		BAY 3 RECEPTACLE
ROLL UP DOOR			1248	25/2	21		1448		22	20/1		200		BAY 4 RECEPTACLE
			1248		23			1448	24	20/1		200		MECHANIC SHOP RECEPT
ROLL UP DOOR			1248	25/2	25	1448			26	20/1		200		MECHANIC SHOP RECEPT
			1248		27		1248		28	20/1				SPARE
VEHICLE LIFT		1440		30/2	29			2640	30	20/1	1200			LIGHTING
		1440			31	2640			32	20/1	1200			LIGHTING
BAY 1 RECEPTACLES		200		20/1	33		200		34	20/



NOTE:

1. SUPPORT WIRE TO BE INSTALLED IN SUCH A MANNER THAT WEIGHT OF FIXTURE IS HELD INDEPENDENT OF CLG. GRID THEREFORE WIRES MUST BE TIGHT WITH NO SLACK.
2. FLEXIBLE CONNECTION FROM FIXTURE TO JUNCTION BOX MUST BE MIN. 18" & MAX. 72" LONG.

DETAIL
LAY–IN FIXTURE SUPPORT DETAIL
NOT TO SCALE



DETAIL
RECEPTACLE INSTALLATION
NOT TO SCALE

TYPICAL FEEDER DESIGNATION

_#_ & 1#_GRD – _C (_A/_P)

- NUMBER OF CIRCUIT CONDUCTORS
- SIZE OF CIRCUIT CONDUCTORS "AWG UNLESS NOTED kCMIL"
- PROTECTIVE DEVICE TO WHICH THE CIRCUIT IS CONNECTED
- SIZE OF CONDUIT
- SIZE OF GROUNDING CONDUCTOR

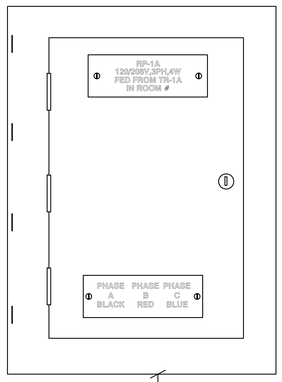
NOTE:

1. CONDUCTOR INSULATION TO BE 600V UNLESS OTHERWISE INDICATED.

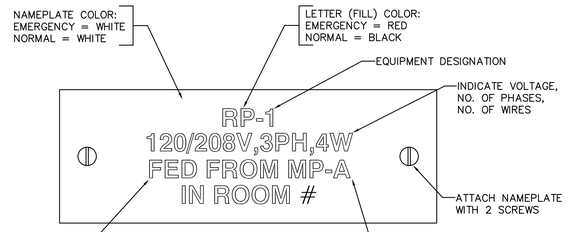
TYPICAL LUMINAIRE, DEVICE AND CIRCUIT DESIGNATIONS

a(R)1	LUMINAIRE TYPE 'R', CIRCUIT NO. 1, CONTROLLED BY SWITCH "a"
2[A]b	FLUORESCENT LUMINAIRE TYPE 'A', CIRCUIT NO. 2, CONTROLLED BY SWITCH "b"
2⊖	WALL OUTLET WITH RECEPTACLE NOTED, CONNECT TO CIRCUIT NO. 2
1(J)	EQUIPMENT CONNECTION – CONNECT TO CIRCUIT NO. 1

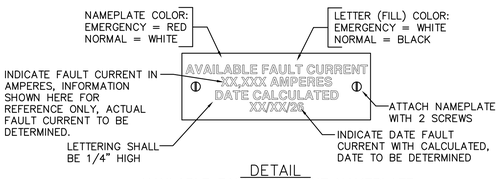
DETAIL
WIRING DESIGNATION
NOT TO SCALE



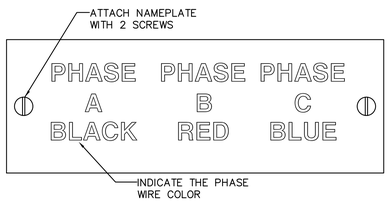
DETAIL
PANELBOARD INSTALLATION
& NAMEPLATE DETAIL
NOT TO SCALE



DETAIL
ELECTRICAL NAMEPLATE
NOT TO SCALE



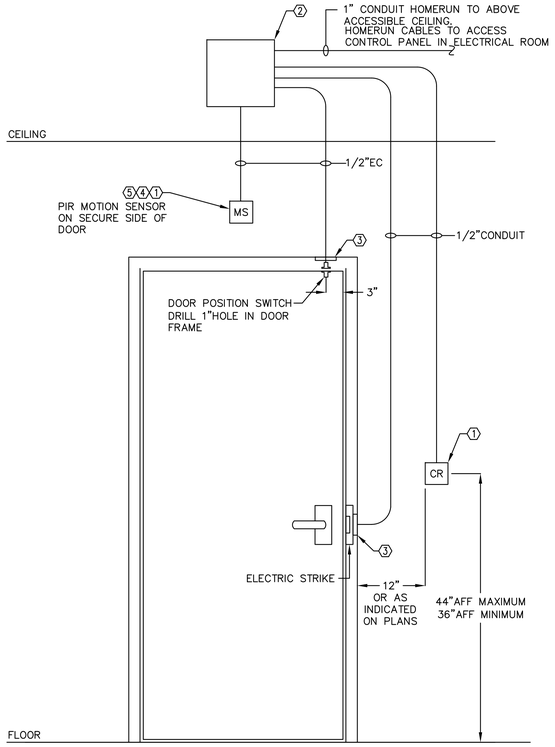
DETAIL
AVAILABLE FAULT CURRENT NAMEPLATE
NOT TO SCALE



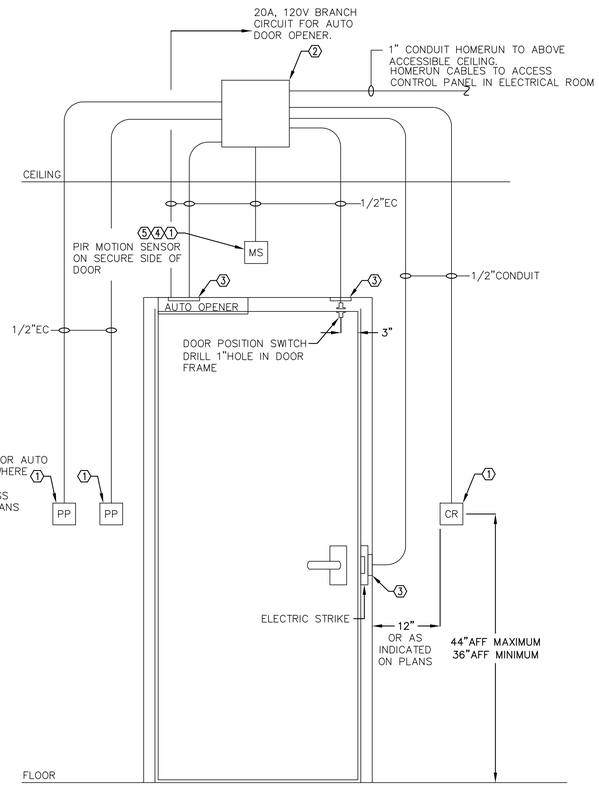
DETAIL
120/208V PANELBOARD
ELECTRICAL NAMEPLATE
NOT TO SCALE



DETAIL
ARC FLASH HAZARD WARNING LABEL
NOT TO SCALE



ELEVATION
CARD READER–ELEC. STRIKE
NOT TO SCALE



ELEVATION
CARD READER–ELEC. STRIKE–AUTO OPERATOR
NOT TO SCALE

GENERAL NOTES:

1. REFER TO DOOR HARDWARE SCHEDULE FOR QUANTITY AND TYPES OF DEVICES FOR EACH CONTROLLED DOOR.
2. LOCATE JUNCTION BOXES ON THE SECURED SIDE OF THE DOOR OPPOSITE SIDE OF THE CARD READER LOCATION.
3. LOCATE CARD READERS JUNCTION BOX AS SHOWN ON PLANS.
4. COORDINATE AUTO OPERATOR PUSH PAD QUANTITY AND LOCATION WITH ARCHITECTURAL PLANS. INTERFACE DOOR LOCKING DEVICES WITH AUTO OPERATORS.
5. ALL CONDUIT SHALL BE CONCEALED, UNLESS NOTED OTHERWISE.
6. PROVIDE ADDITIONAL CONDUIT WHERE INDICATED ON PLAN DRAWINGS.
7. DETAIL SHOWN FOR REFERENCE ONLY. COORDINATE REQUIREMENT AT EACH DOOR WITH ACCESS CONTROL VENDOR.

KEYED NOTES:

(1) PROVIDE DOUBLE GANG BACKBOX WITH SINGLE GANG PLASTER RING. FOR SURFACE INSTALLATIONS PROVIDE WIREMOLD 500/700 SERIES DEVICES BOX AND RACEWAY.

(2) PROVIDE 6"x6"x4" NEMA 1 HOFFMAN BOX WITH COVER. MOUNT ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR.

(3) PROVIDE MORTAR GUARD.

(4) PROVIDE ADAPTER PLATE FOR MOUNTING MOTION SENSOR TO BACKBOX.

(5) AT SHEETROCK WALL STUB CONDUIT INTO WALL TO 4" BELOW CEILING. FISH WIRE TO SURFACE MOUNTED MOTION SENSOR.

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JASPER WATERWORKS - NEW BUILD
3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER: 23031-A

DATE: 06/29/26

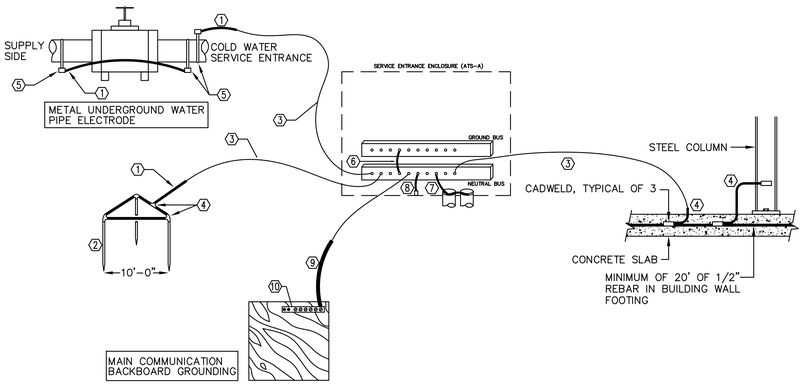
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#	DESCRIPTION	DATE

SHEET TITLE: DETAILS

SHEET NUMBER: E103

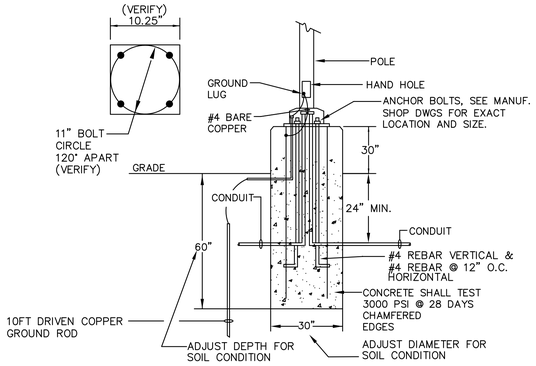
GW ENGINEERING, LLC
4120 OVELOOK CIRCLE, TRUSSVILLE, AL 35173
GWAMAE@GW-ENG.COM | 205.413.4112
THIGGINBOTHAM@GW-ENG.COM | 205.317.3969



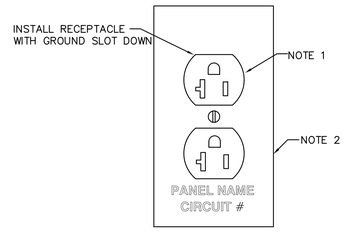
GROUNDING SYSTEM DETAIL
NOT TO SCALE

GROUNDING SYSTEM DETAIL – KEY NOTES

1. 4/0 BARE GROUNDING ELCTRODE CONDUCTOR.
2. 3/4"x10'-0" CLAD STEEL GROUND ROD, DRIVEN 24" BELOW GRADE, MINIMUM.
3. 4/0 BARE GROUNDING ELECTRODE CONDUCTOR IN 2"PVC-40.
4. EXOTHERMIC WELD CONNECTOR:
   TWO CABLES TO GROUND ROD, CADWELD #GT OR #GY
   CABLE TO CABLE TEE, CADWELD #TA
   ONE CABLE TO GROUND ROD, CADWELD #GR
5. CAST BRONZE, UL LISTED GROUND CLAMP, O-Z/GEDNEY TYPE-G.
6. MAIN BONDING JUMPER, SIZED BY EQUIPMENT MANUFACTURER PER NEC 250-66.
7. BONDING JUMPER TO GROUNDING BUSHING. AND BONDING JUMPERS FROM CONDUIT TO CONDUIT. ALL CONDUIT CONNECTED TO THE SERVICE ENTRANCE ENCLOSURE SHALL BE BONDED, SIZED PER NEC 250.
8. BONDING JUMPER, SIZED BY MANUFACTURER PER 250-66.
9. 4/0 BARE BONDING JUMPER.
10. 6 CONDUCTOR GROUND BUS, COPPER OR ALUMINUM RATED, ILSCO #PDE.



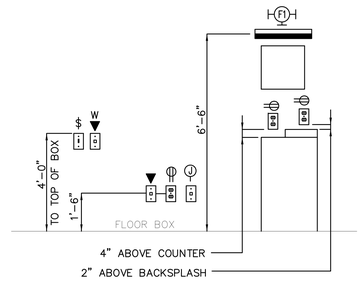
BASE DETAIL
FIXTURE "Y"
NOT TO SCALE



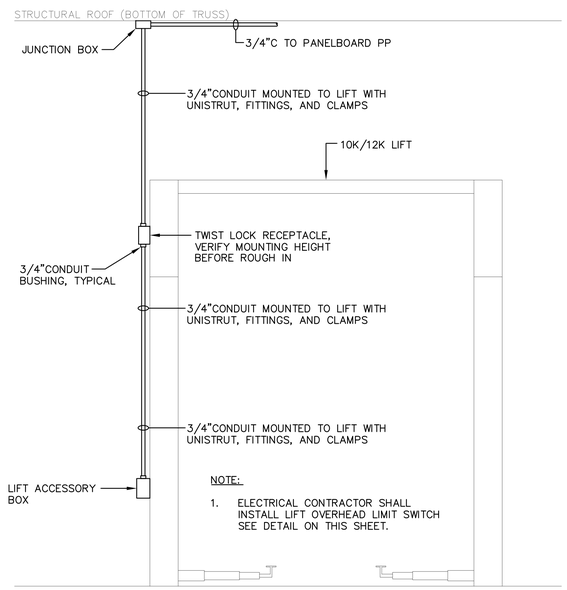
NOTES:

2. ALL RECEPTACLES SHALL HAVE ENGRAVED DEVICES INDICATING PANELBOARD AND CIRCUIT NUMBER.

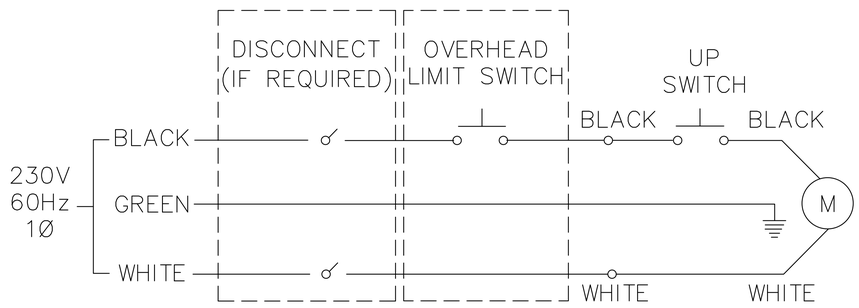
DETAIL
RECEPTACLE DEVICE PLATE
NOT TO SCALE



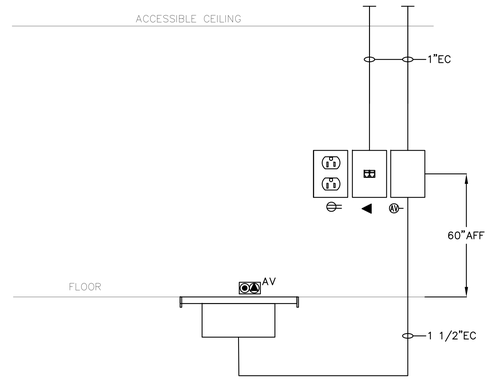
DETAIL
MOUNTING HEIGHTS
NOT TO SCALE



ELEVATION
LIFT POWER DETAIL
NOT TO SCALE



LIFT LIMIT SWITCH
WIRING DETAIL
NOT TO SCALE



DETAIL–AV BOX
CONFERENCE ROOM 121 &
BOARD ROOM 125
NOT TO SCALE

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ALABAMA LICENSED No. 38353 PROFESSIONAL ENGINEER
4/13/26

JASPER WATERWORKS - NEW BUILD
3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER: 23031-A

DATE: 06/29/26

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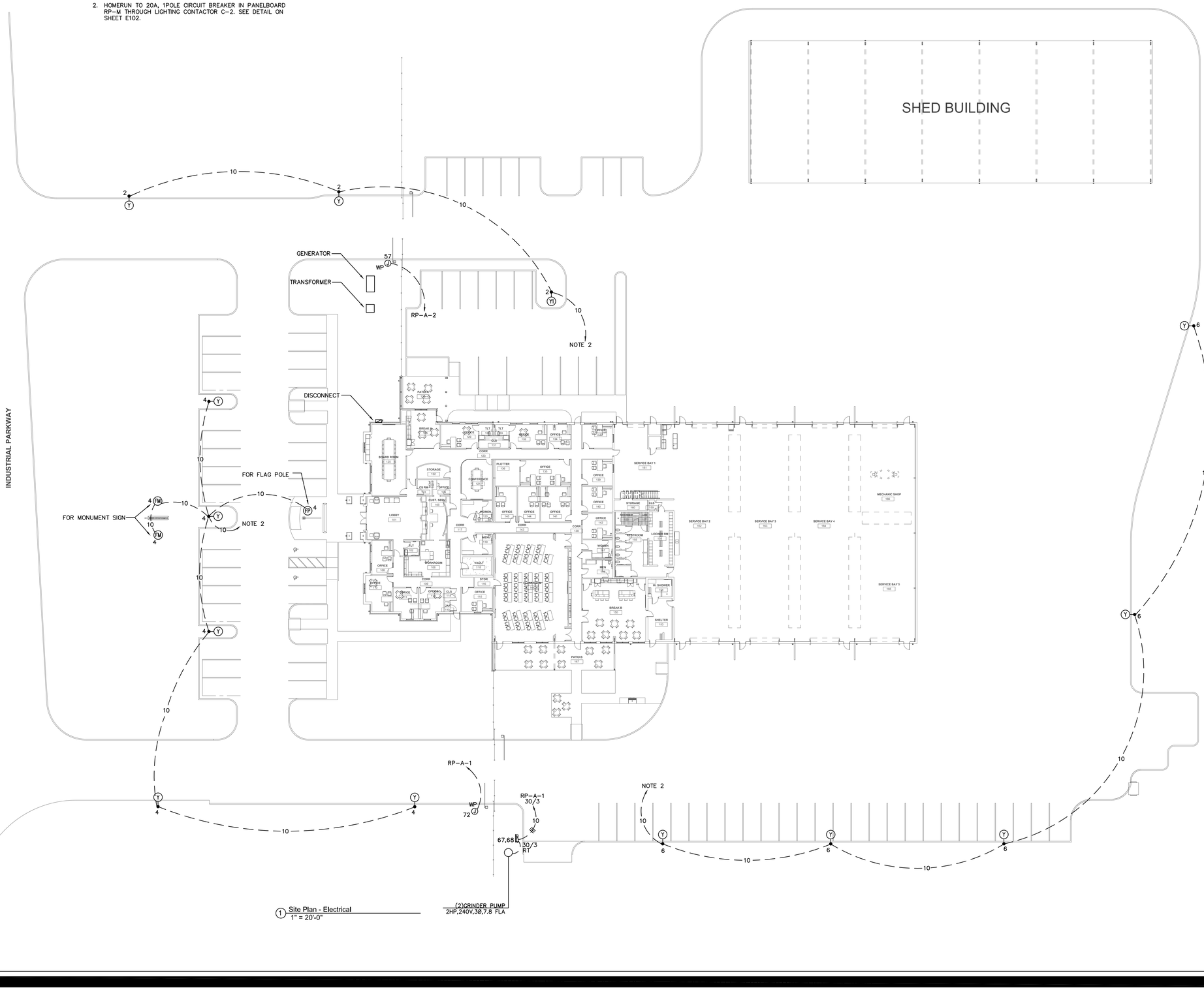
SHEET TITLE: DETAILS

SHEET NUMBER: E104

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NOTES:

1. CONTRACTOR SHALL MAKE FINAL ELECTRICAL CONNECTIONS TO LIFT STATION CONTROL PANEL AND PUMPS. SEE CIVIL PLANS FOR MORE INFORMATION. INSTALL PER MANUFACTURERS REQUIREMENTS, VERIFY INSTALLATION REQUIREMENTS WITH PUMP SUBMITTALS PRIOR TO ROUGH IN. PROVIDE UNISTRUT FOR MOUNTING OF DISCONNECT AND CONTROL PANEL.
2. HOMERUN TO 20A, 1POLE CIRCUIT BREAKER IN PANELBOARD RP-M THROUGH LIGHTING CONTACTOR C-2. SEE DETAIL ON SHEET E102.



1 Site Plan - Electrical
1" = 20'-0"

ALABAMA
Jason Wade Wilson
No. 38353
PROFESSIONAL
ENGINEER
06/29/26

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
06/29/26

PRINTED / REVISIONS

#	DESCRIPTION	DATE

SHEET TITLE:
SITE PLAN - ELECTRICAL

SHEET NUMBER:
E105

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GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE OPERATIONAL SYSTEM TO INCLUDE ALL DEVICES, EQUIPMENT, WIRING AND CABLING.

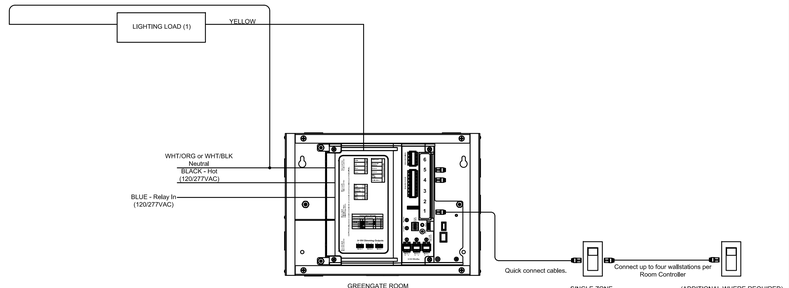
2. BY USING PRE-APPROVED SUBSTITUTIONS, THE CONTRACTOR ACCEPTS RESPONSIBILITY AND ASSOCIATED COSTS FOR ALL REQUIRED MODIFICATIONS TO CIRCUITRY, DEVICES AND WIRING. THE CONTRACTOR SHALL PROVIDE COMPLETE ENGINEERED SHOP DRAWINGS (INCLUDING POWER AND CONTROL WIRING) WITH DEVIATIONS FROM THE ORIGINAL DESIGN, HIGHLIGHTED IN AN ALTERNATE COLOR, TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ROUGH-IN.

3. SEE FLOOR PLAN ON FOR NUMBER OF ROOM CONTROLLERS, DIGITAL SWITCHES AND OCCUPANCY SENSORS. PROVIDE ADDITIONAL OCCUPANCY SENSORS AS RECOMMENDED BY MANUFACTURER TO PROVIDE COMPLETE COVERAGE. ADDITIONAL OCCUPANCY REQUIRED SHALL BE INCLUDED IN THE BID.

4. SHOP DRAWINGS SHALL INCLUDE; WIRING AND/OR SCHEMATIC DIAGRAM OF EACH CONTROL CIRCUIT, AS PROPOSED, TO BE INSTALLED (STANDARD DIAGRAMS WILL NOT BE ACCEPTED). SCALE DRAWING FOR EACH AREA SHOWING EXACT LOCATION OF EACH SENSOR, ROOM CONTROLLER AND DIGITAL SWITCH AND INDICATE BEST MOUNTING AND INSTALLATION LOCATIONS FOR EACH DEVICE.

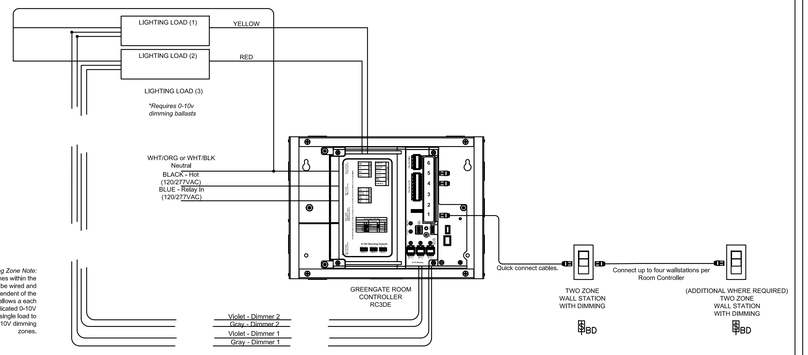
5. UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED REPRESENTATIVE WHO WILL VERIFY A COMPLETE FULLY FUNCTIONAL SYSTEM.

6. UPON COMPLETION OF THE SYSTEM COMMISSIONING THE FACTORY-AUTHORIZED TECHNICIAN SHALL PROVIDE THE PROPER TRAINING TO THE OWNER'S PERSONNEL ON THE ADJUSTMENT AND MAINTENANCE OF THE SYSTEM.



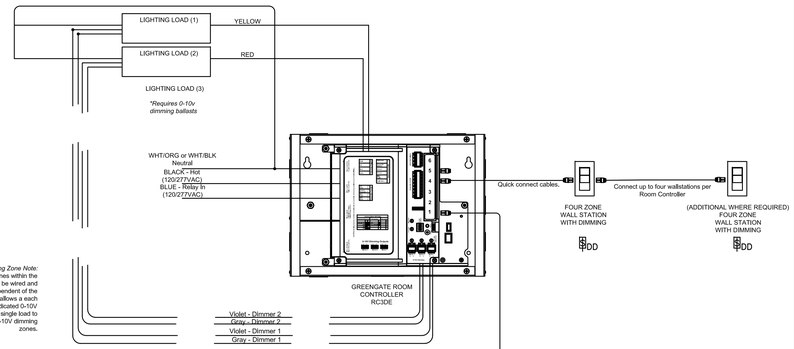
Room Controller and Smart Devices use Click & Go technology:
The RC3D will automatically recognize any smart device connected with the quick connect cable (provided) and start working immediately upon power up with no programming required.
The RC3D defaults to Manual On/Automatic Off vacancy sensor mode for maximum energy savings. Office stations provide On/Off control of the Yellow, Red and Purple loads as well as manual Raise/Lower of all dimmers.
The daylight sensor will automatically on power up provide multi-zone daylight dimming in the space, (remote adjustments can be made later)
**Refer to Room Controller website for more information on other integral no programming required benefits like Demand Response, Solatube Control, Egress Control, BMS Output, Alert Mode, Emergency Lighting Control, and Slider Stations.*

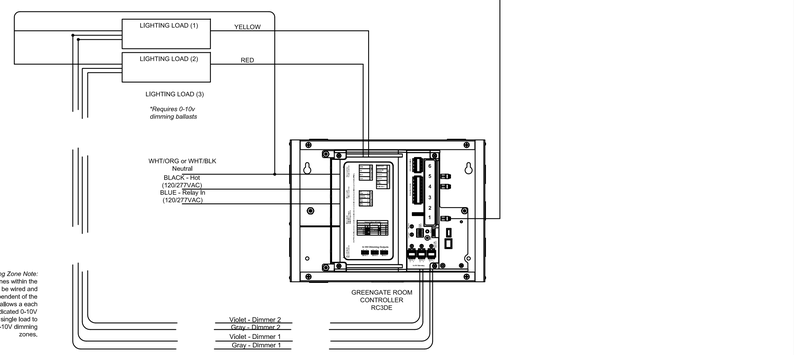
LIGHTING CONTROL WIRING DIAGRAM
FOR DIGITAL SWITCH "A"



Room Controller and Smart Devices use Click & Go technology:
The RC3D will automatically recognize any smart device connected with the quick connect cable (provided) and start working immediately upon power up with no programming required.
The RC3D defaults to Manual On/Automatic Off vacancy sensor mode for maximum energy savings. Office stations provide On/Off control of the Yellow, Red and Purple loads as well as manual Raise/Lower of all dimmers.
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**Refer to Room Controller website for more information on other integral no programming required benefits like Demand Response, Solatube Control, Egress Control, BMS Output, Alert Mode, Emergency Lighting Control, and Slider Stations.*

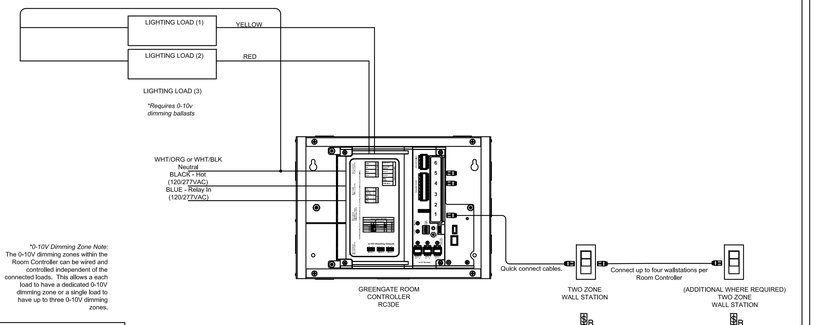
LIGHTING CONTROL WIRING DIAGRAM
FOR DIGITAL SWITCH "BD"





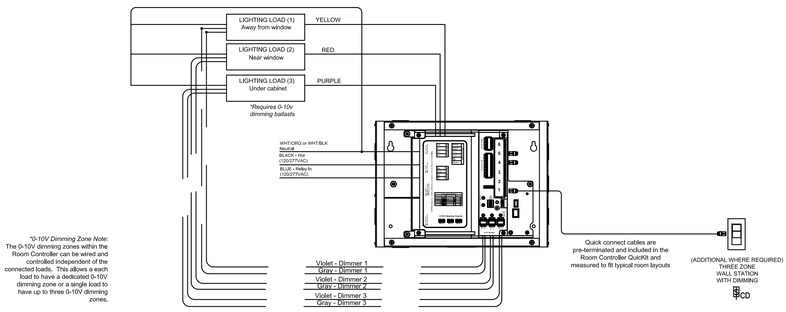
Room Controller and Smart Devices use Click & Go technology:
The RC3D will automatically recognize any smart device connected with the quick connect cable (provided) and start working immediately upon power up with no programming required.
The RC3D defaults to Manual On/Automatic Off vacancy sensor mode for maximum energy savings. Office stations provide On/Off control of the Yellow, Red and Purple loads as well as manual Raise/Lower of all dimmers.
The daylight sensor will automatically on power up provide multi-zone daylight dimming in the space, (remote adjustments can be made later)
**Refer to Room Controller website for more information on other integral no programming required benefits like Demand Response, Solatube Control, Egress Control, BMS Output, Alert Mode, Emergency Lighting Control, and Slider Stations.*

LIGHTING CONTROL WIRING DIAGRAM
FOR DIGITAL SWITCH "DD"



Room Controller and Smart Devices use Click & Go technology:
The RC3D will automatically recognize any smart device connected with the quick connect cable (provided) and start working immediately upon power up with no programming required.
The RC3D defaults to Manual On/Automatic Off vacancy sensor mode for maximum energy savings. Office stations provide On/Off control of the Yellow, Red and Purple loads as well as manual Raise/Lower of all dimmers.
The daylight sensor will automatically on power up provide multi-zone daylight dimming in the space, (remote adjustments can be made later)
**Refer to Room Controller website for more information on other integral no programming required benefits like Demand Response, Solatube Control, Egress Control, BMS Output, Alert Mode, Emergency Lighting Control, and Slider Stations.*

LIGHTING CONTROL WIRING DIAGRAM
FOR DIGITAL SWITCH "B"



LIGHTING CONTROL WIRING DIAGRAM
FOR DIGITAL SWITCH "CD"

ALABAMA
CHRISTOPHER M. GILLESPIE
No. 38353
PROFESSIONAL
ENGINEER
11/13/25

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
06/29/26

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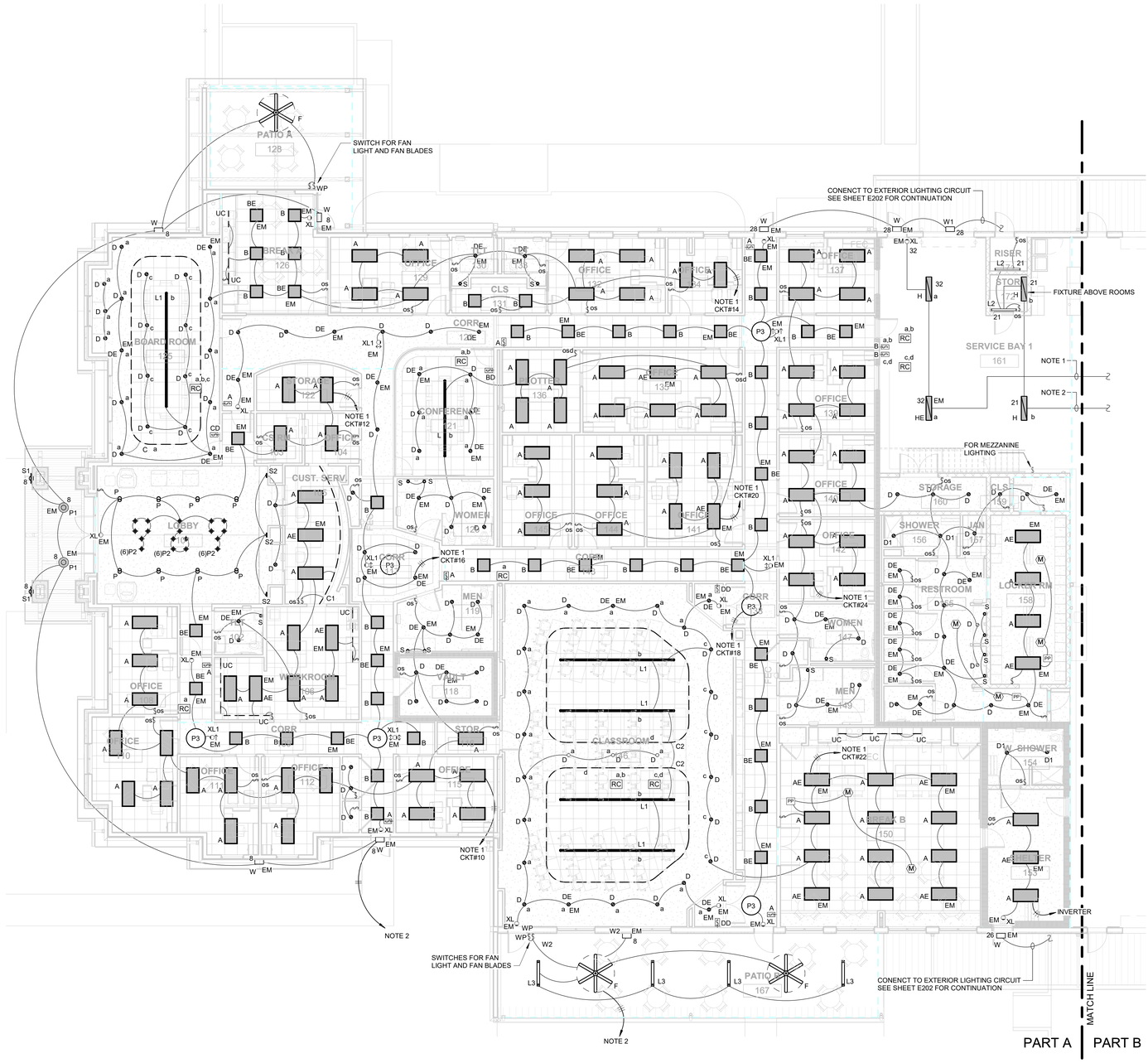
SHEET TITLE:
DETAILS

SHEET NUMBER:
E106

GW ENGINEERING, LLC
4120 OVELOOK CIRCLE, TRUSSVILLE, AL 35173
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GENERAL NOTES:

1. CONNECT ALL EMERGENCY BATTERY PACKS IN EMERGENCY LIGHT FIXTURES MARKED "EM" TO UNSWITCHED HOT LEG OF LIGHTING BRANCH CIRCUIT.
2. SEE DETAIL ON SHEET E106 FOR DIGITAL LIGHTING CONTROL WIRING.

NOTES:

1. HOMERUN TO 20A, 1POLE CIRCUIT BREAKER IN PANELBOARD RP-M THROUGH LIGHTING CONTACTOR C-1. SEE DETAIL ON SHEET E102.
2. HOMERUN TO 20A, 1POLE CIRCUIT BREAKER IN PANELBOARD RP-M THROUGH LIGHTING CONTACTOR C-2. SEE DETAIL ON SHEET E102. EMERGENCY BATTERY PACK SHALL BE CONNECTED TO UNSWITCHED HOT.

1 LEVEL 1 FLOOR PLAN - LIGHTING - PART A
1/8" = 1'-0"

PROJECT NORTH
TRUE NORTH

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JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER: 23031-A

DATE: 06/29/26

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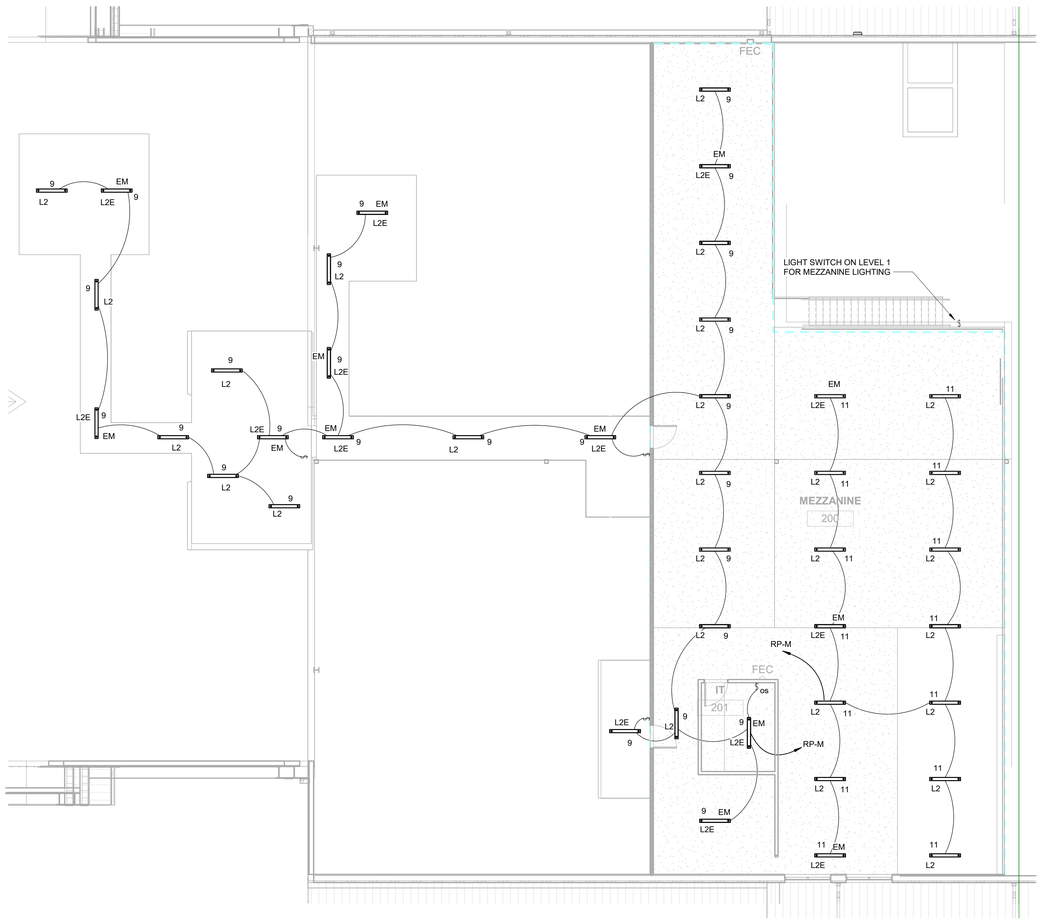
SHEET TITLE: LEVEL 1 FLOOR PLAN - LIGHTING - PART A

SHEET NUMBER: E200

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GENERAL NOTES:

1. CONNECT ALL EMERGENCY BATTERY PACKS IN EMERGENCY LIGHT FIXTURES MARKED "EM" TO UNSWITCHED HOT LEG OF LIGHTING BRANCH CIRCUIT.



1 MEZZANINE FLOOR PLAN - LIGHTING
1/8" = 1'-0"

ALABAMA
CHRISTOPHER
No. 38353
PROFESSIONAL
ENGINEER
GIBSON WARREN
06/29/26

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
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DATE:
06/29/26

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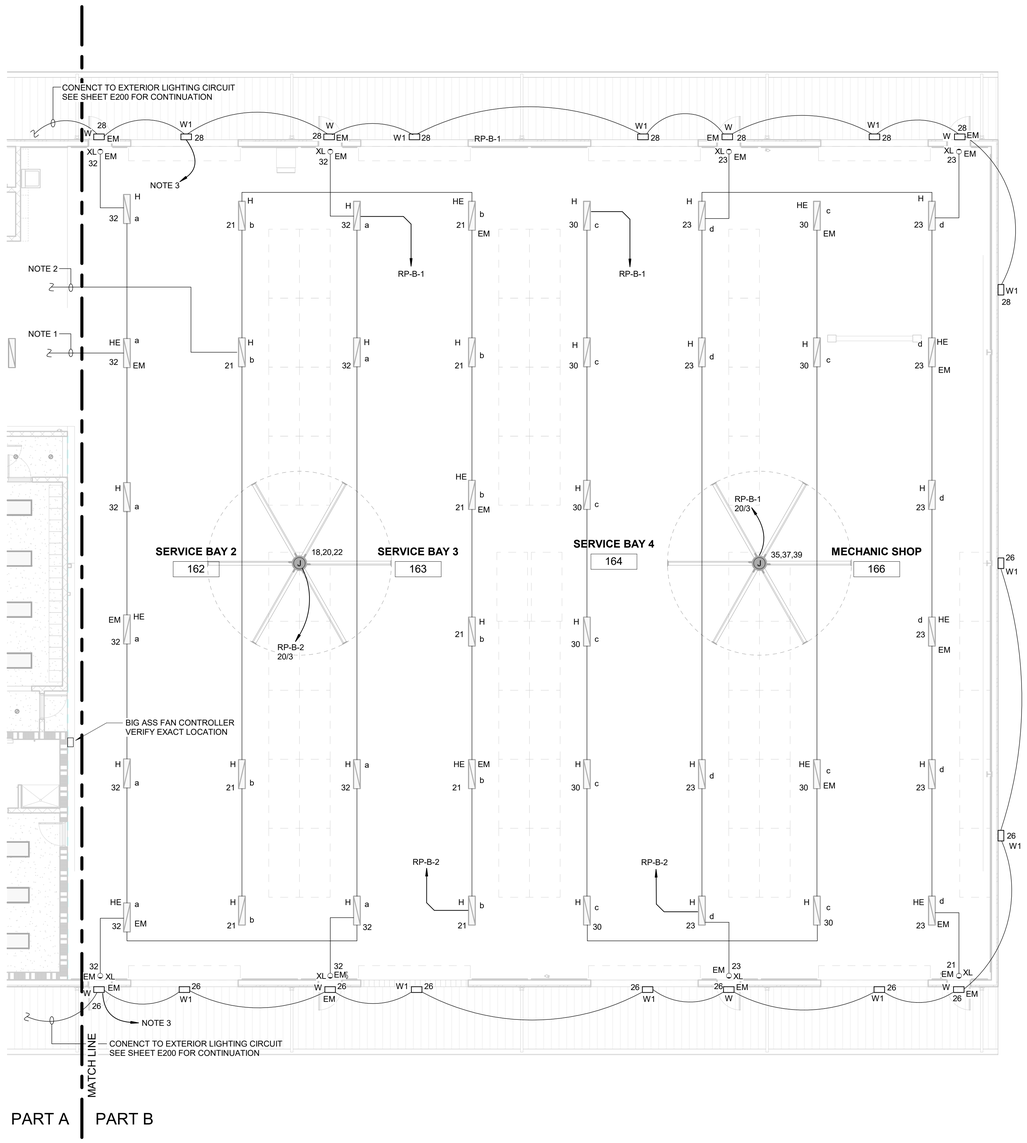
#	DESCRIPTION	DATE

SHEET TITLE:
LEVEL 2 FLOOR PLAN - LIGHTING - PART A

SHEET NUMBER:
E201

GW ENGINEERING, LLC
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Electrical Consultant
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1 LEVEL 1 FLOOR PLAN - LIGHTING - PART B
1/8" = 1'-0"

PROJECT NORTH

TRUE NORTH

GENERAL NOTES:

1. CONNECT ALL EMERGENCY BATTERY PACKS IN EMERGENCY LIGHT FIXTURES MARKED "EM" TO UNSWITCHED HOT LEG OF LIGHTING BRANCH CIRCUIT.

NOTES:

1. CONNECT TO LIGHTING ZONE "a" IN SERVICE BAY 161. SEE SHEET E200 FOR CIRCUIT CONTINUATION.
2. CONENCT TO LIGHTING ZONE "b" IN SERVICE BAY 161. SEE SHEET E200 FOR CIRCUIT CONTINUATION.
3. HOMERUN TO 20A, 1POLE CIRCUIT BREAKER IN PANELBOARD RP-M THROUGH LIGHTING CONTACTOR C-2. SEE DETAIL ON SHEET E102. EMERGENCY BATTERY PACK SHALL BE CONNECTED TO UNSWITCHED HOT.

ALABAMA
ENGINEER
No. 38353
PROFESSIONAL
GIBSON WAYNE THIGPEN
7/23/26

JASPER WATERWORKS - NEW BUILD
3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
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06/29/26

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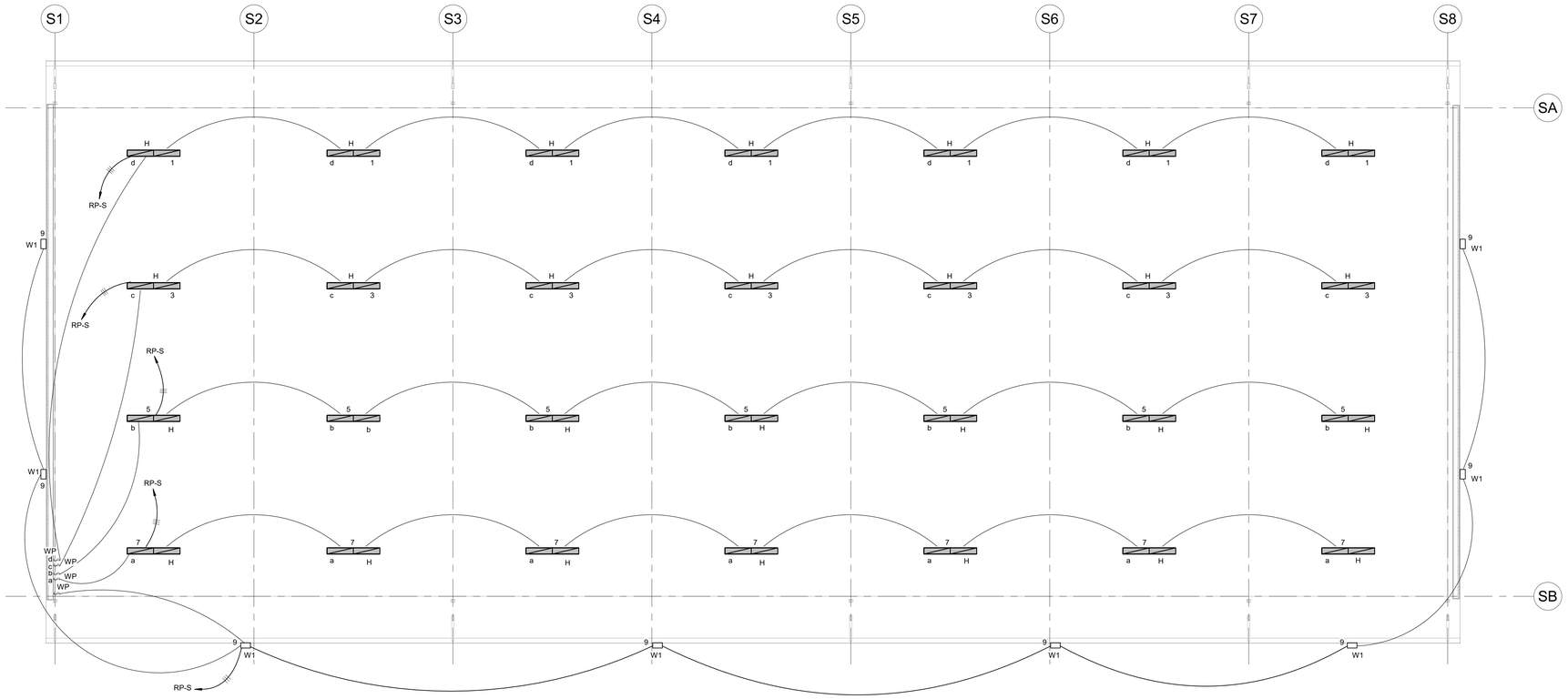
#	DESCRIPTION	DATE

SHEET TITLE:
LEVEL 1 FLOOR PLAN - LIGHTING - PART B

SHEET NUMBER:
E202

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1 SHED BUILDING PLAN - LIGHTING
1/8" = 1'-0"

PROJECT NORTH

TRUE NORTH

ALABAMA
CERTIFICATE
No. 38353
PROFESSIONAL
ENGINEER
CHRISTOPHER W. HIGGINBOTHAM
06/29/26

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
06/29/26

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#	DESCRIPTION	DATE

SHEET TITLE:
SHED BUILDING PLAN - LIGHTING

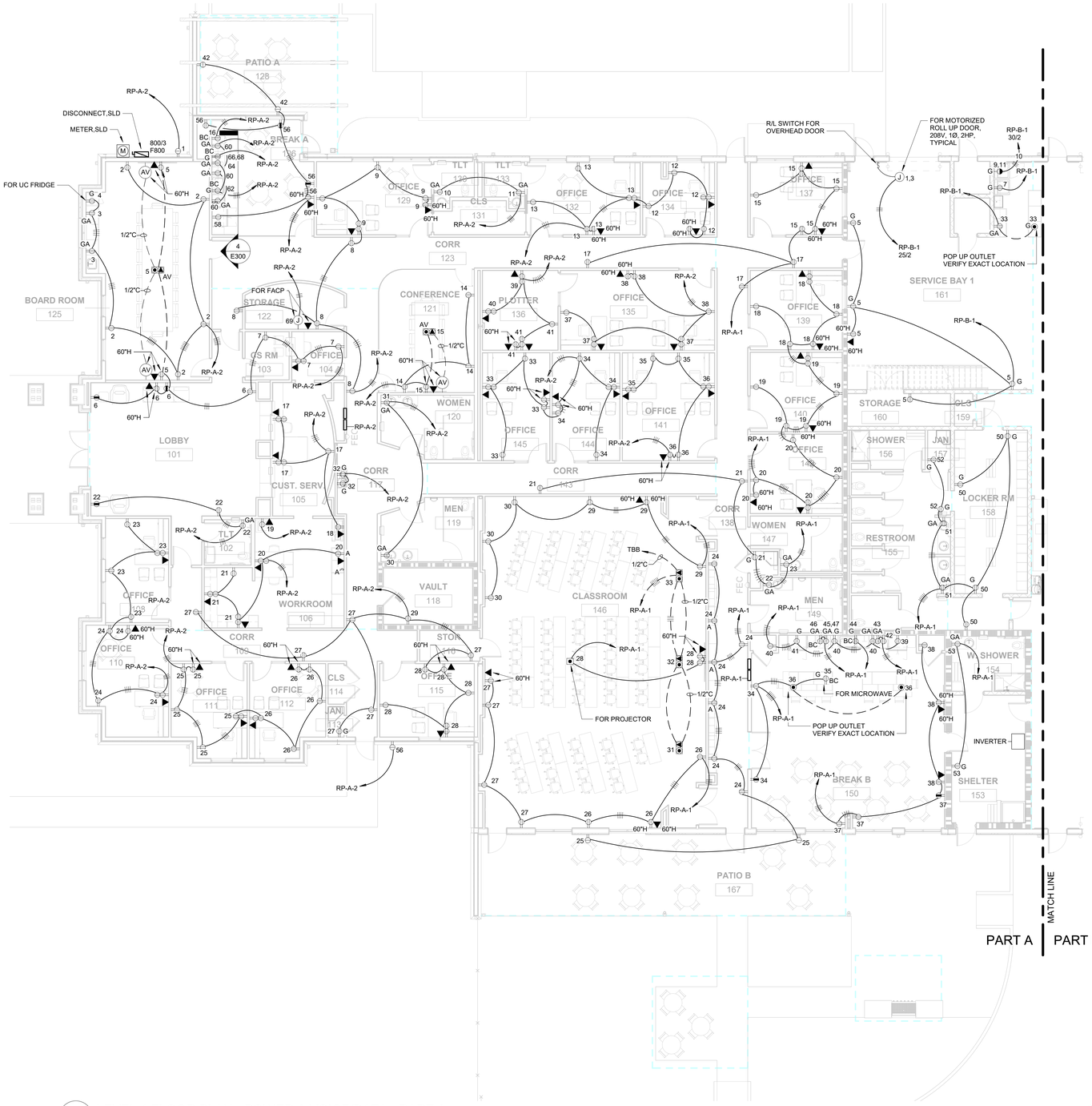
SHEET NUMBER:
E203

GW ENGINEERING, LLC
Engineering LLC
Electrical Consultant
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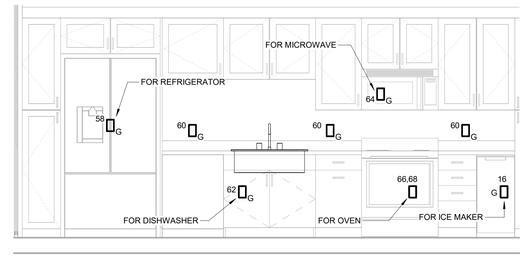
1 LEVEL 1 FLOOR PLAN - POWER & VOICE/DATA - PART A
1/8" = 1'-0"

PROJECT NORTH

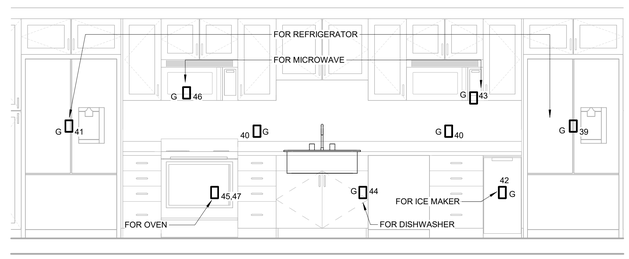
TRUE NORTH

GENERAL NOTES:

1. ALL OUTLET INSTALLATIONS SHALL BE COORDINATED WITH TENENT FURNITURE AND EQUIPMENT LOCATIONS PRIOR TO INSTALLATION.



4 Section 2
1/2" = 1'-0"



3 Section 1
1/2" = 1'-0"

ALABAMA
CHRISTOPHER J. GILLESPIE
No. 38353
PROFESSIONAL ENGINEER
04/13/26

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
06/29/26

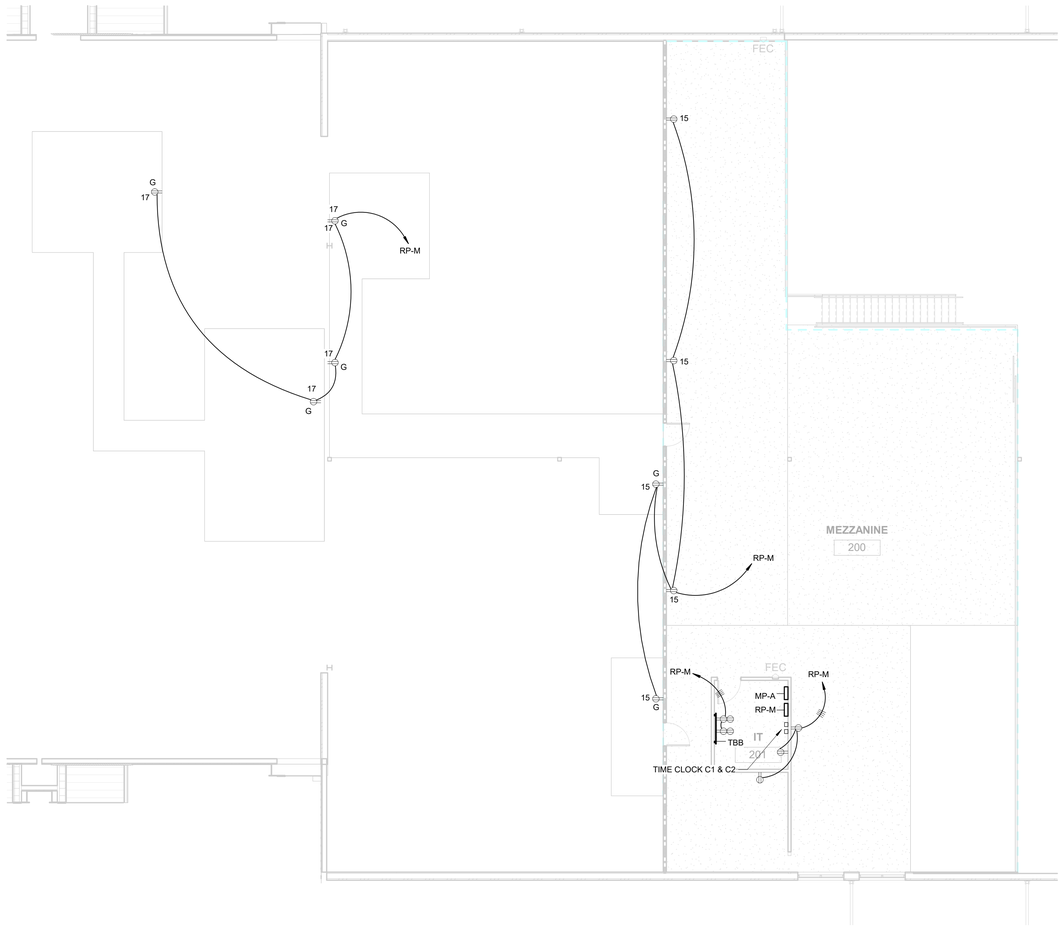
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#	DESCRIPTION	DATE

SHEET TITLE:
LEVEL 1 FLOOR PLAN - POWER & VOICE DATA - PART A

SHEET NUMBER:
E300

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4120 OVELOOK CIRCLE, TRUSSVILLE, AL 35173
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THIGGINBOTHAM@GW-ENG.COM | 205.317.3969



1 MEZZANINE FLOOR PLAN - POWER & VOICE/DATA
1/8" = 1'-0"

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ALABAMA
No. 38353
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ENGINEER
7/13/26

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
06/29/26

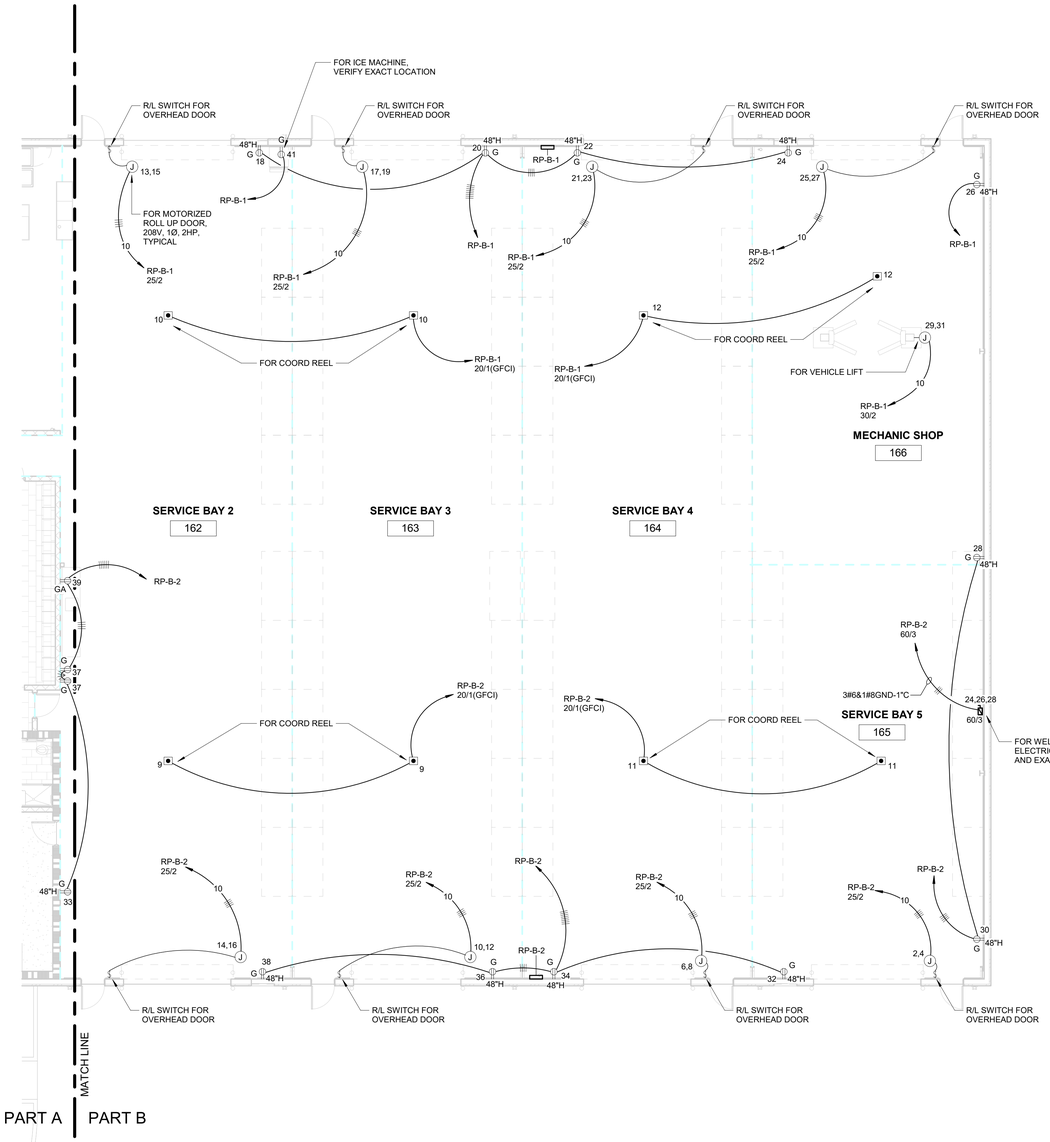
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#	DESCRIPTION	DATE

SHEET TITLE:
MEZZANINE FLOOR PLAN - POWER & VOICE/DATA

SHEET NUMBER:
E301

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Engineering LLC
Electrical Consultant
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THIGGINBOTHAM@GW-ENG.COM | 205.317.3969



1 LEVEL 1 FLOOR PLAN - POWER & VOICE/DATA - PART B

1/8" = 1'-0"

PROJECT NORTH

TRUE NORTH

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JASPER WATERWORKS - NEW BUILD
3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER: 23031-A

DATE: 06/29/26

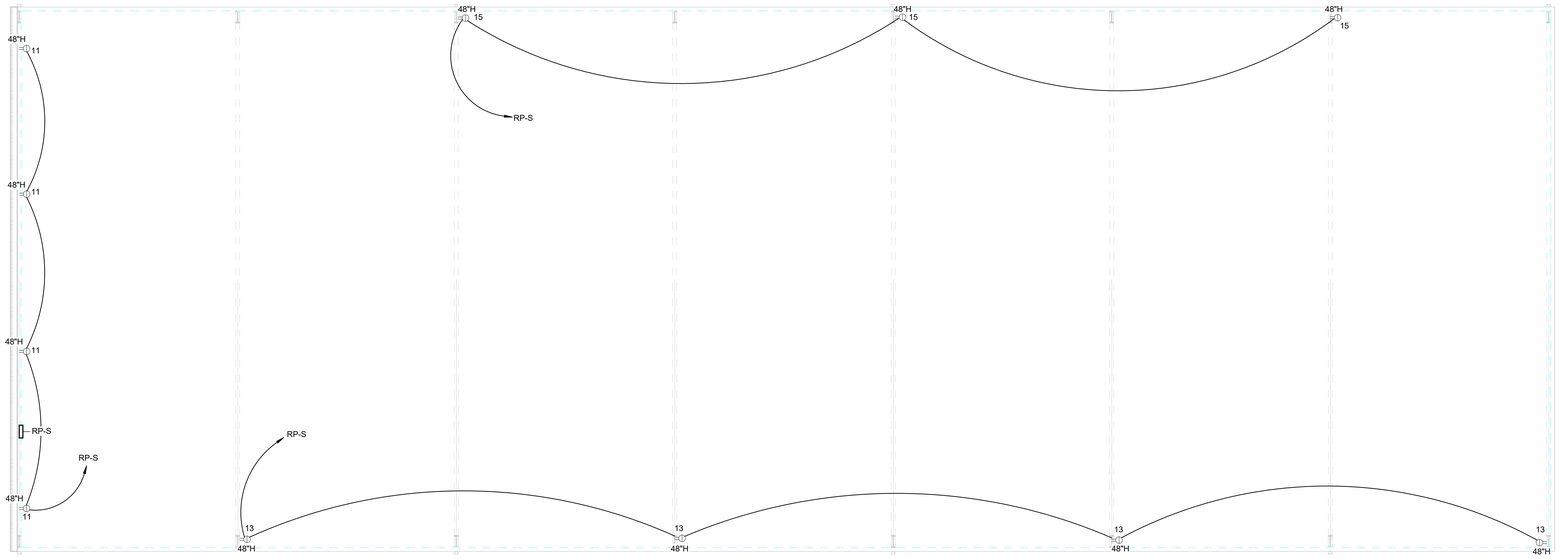
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DESCRIPTION DATE

SHEET TITLE: LEVEL 1 FLOOR PLAN - POWER & VOICE DATA - PART B

SHEET NUMBER: E302

GW ENGINEERING, LLC
4120 OVELOOK CIRCLE, TRUSSVILLE, AL 35173
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2920 FIRST AVENUE SOUTH BIRMINGHAM, ALABAMA 35233 CCRARCHITECTURE.COM 205-324-8864



1 SHED BUILDING PLAN - POWER & VOICE/DATA

1/8" = 1'-0"

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ALABAMA
No. 38353
PROFESSIONAL
ENGINEER
7/13/26

JASPER WATER WORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
06/29/26

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#	DESCRIPTION	DATE

SHEET TITLE:
SHED BUILDING PLAN - POWER & VOICE/DATA

SHEET NUMBER:
E303

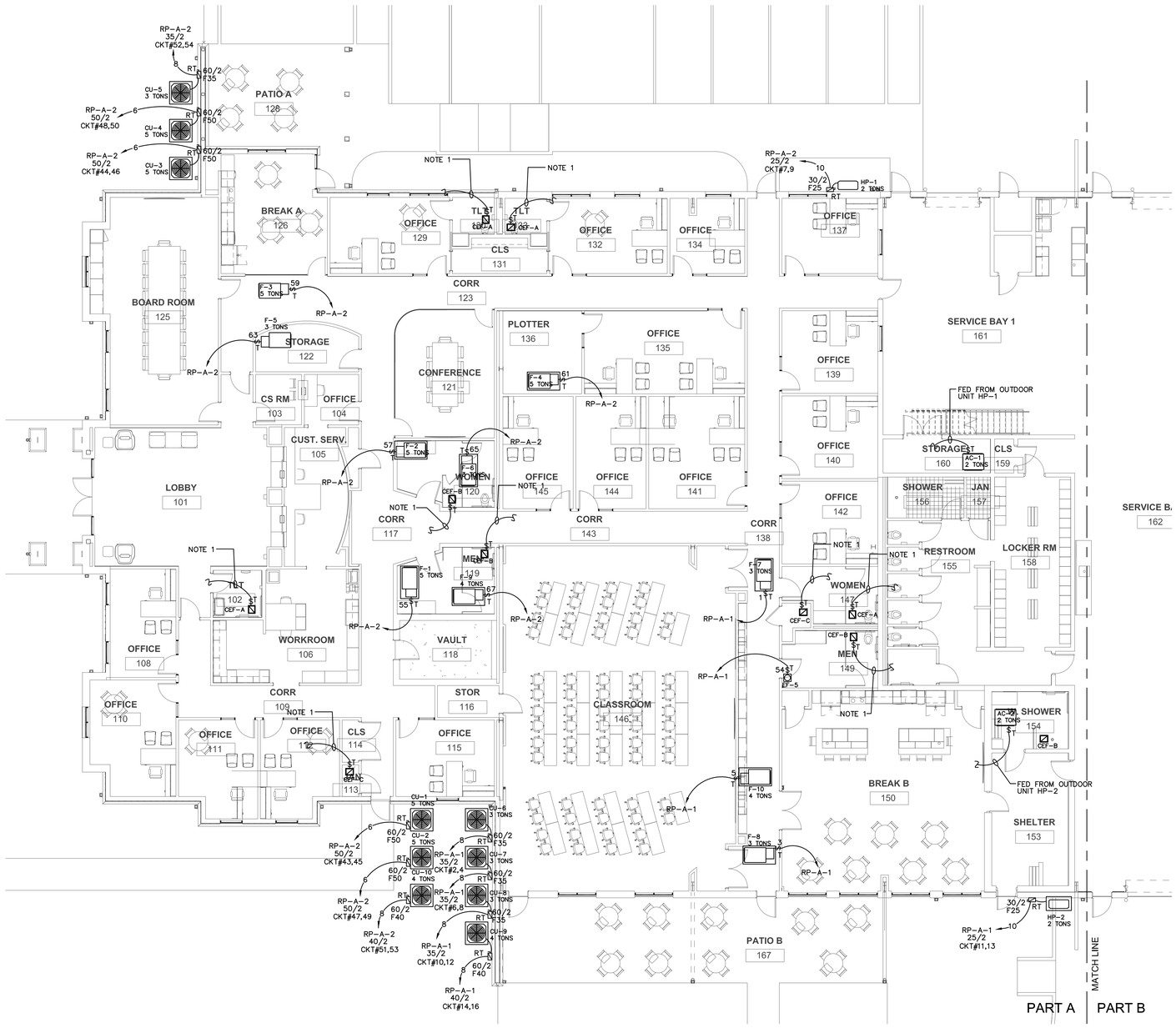
GW ENGINEERING, LLC
4120 OVELOOK CIRCLE, TRUSSVILLE, AL 35173
GWMAN@GW-ENG.COM | 205.413.4112
THIGGINBOTHAM@GW-ENG.COM | 205.317.3969

GENERAL NOTES:

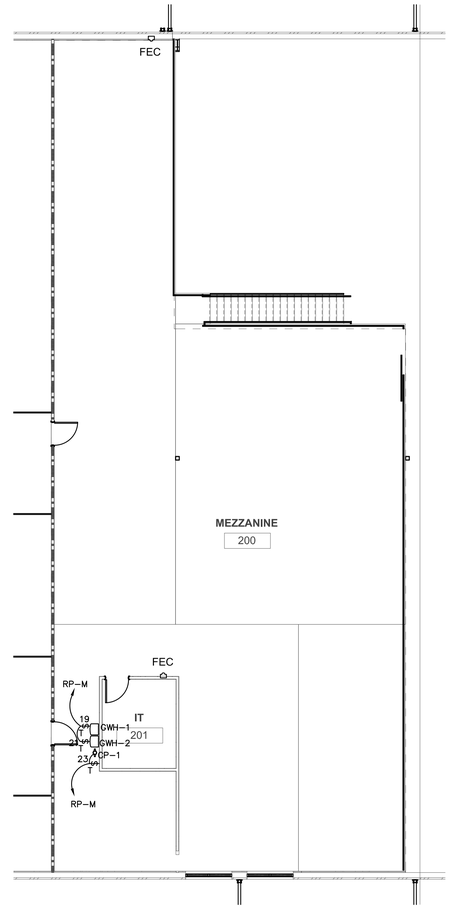
1. MECHANICAL EQUIPMENT WILL BE FURNISHED BY MECHANICAL CONTRACTOR. THE LOCATIONS SHOWN ON ELECTRICAL DRAWINGS ARE APPROXIMATE. COORDINATE WITH THE MECHANICAL CONTRACTOR TO DETERMINE THE EXACT LOCATION OF EACH PIECE OF EQUIPMENT AND VERIFY CONNECTION REQUIREMENTS WITH MECHANICAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH IN.
2. COORDINATE LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH DUCTWORK AND PIPING. ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO MEET THE WORKSPACE AND DEDICATED SPACE REQUIREMENTS PER THE NEC.

NOTES:

1. CONNECT TO LIGHTING BRANCH CIRCUIT AND CONTROLS IN THIS AREA.



1 LEVEL 1 FLOOR PLAN - ELEC. CONN. TO MECH. - PART A
1/8" = 1'-0"



2 MEZZANINE FLOOR PLAN - ELEC. CONN. TO MECH.
1/8" = 1'-0"

PROJECT NORTH

TRUE NORTH

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ALABAMA
No. 38353
PROFESSIONAL ENGINEER
GREGORY WAYNE GUNN
7/1/26

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Engineering LLC
Electrical Consultant
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GWAMAE@GW-ENG.COM | 205.413.4112
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JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
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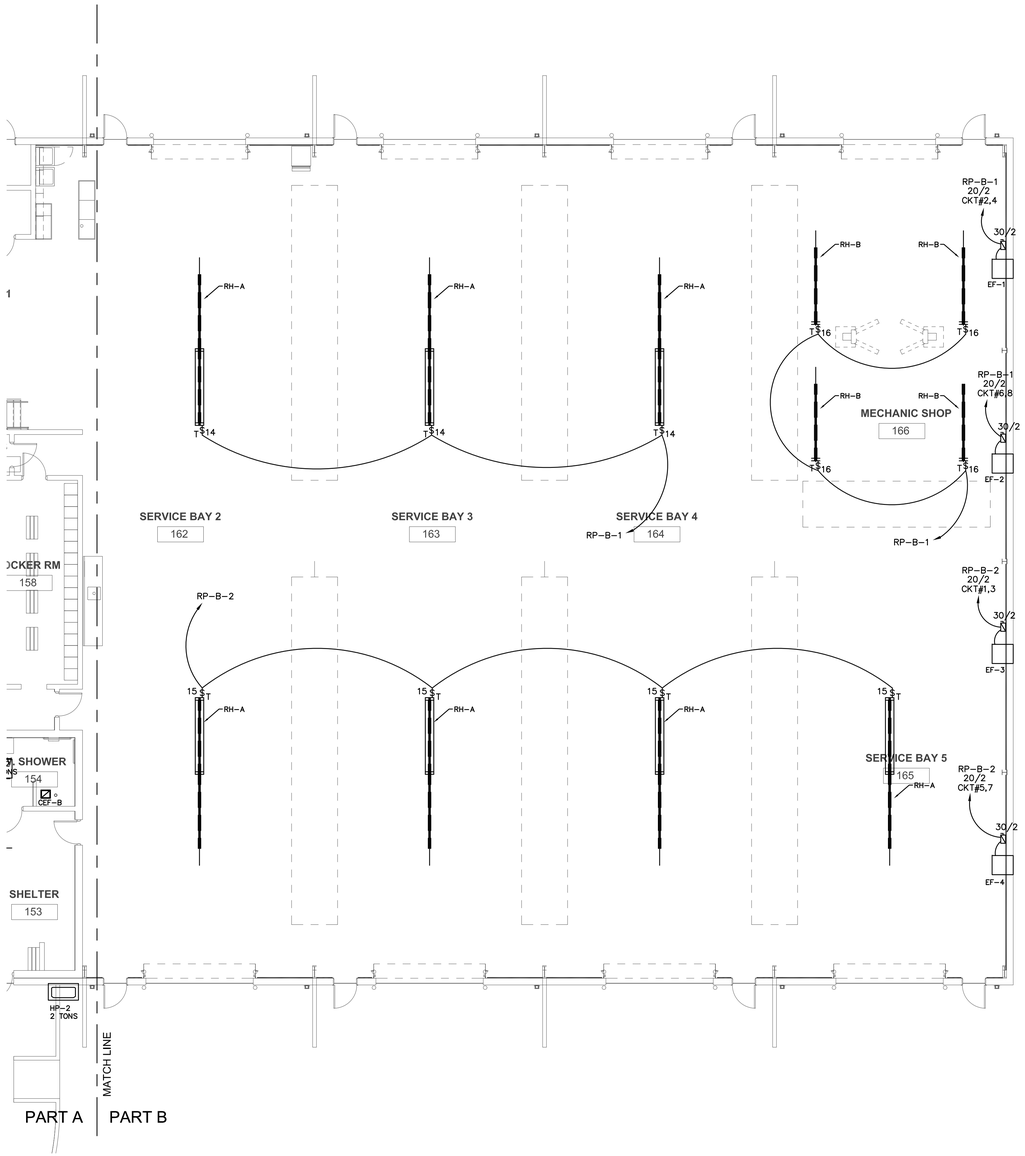
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SHEET TITLE:
LEVEL 1 FLOOR PLAN - ELECTRICAL CONNECTION TO MECHANICAL - PART A

SHEET NUMBER:
E400



1 LEVEL 1 FLOOR PLAN - ELEC. CONN. TO MECH. - PART B
1/8" = 1'-0"

GENERAL NOTES:

1. MECHANICAL EQUIPMENT WILL BE FURNISHED BY MECHANICAL CONTRACTOR. THE LOCATIONS SHOWN ON ELECTRICAL DRAWNGS ARE APPROXIMATE. COORDINATE WITH THE MECHANICAL CONTRACTOR TO DETERMINE THE EXACT LOCATION OF EACH PIECE OF EQUIPMENT AND VERIFY CONNECTION REQUIREMENTS WITH MECHANICAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH IN.
2. COORDINATE LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH DUCTWORK AND PIPING. ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO MEET THE WORKSPACE AND DEDICATED SPACE REQUIREMENTS PER THE NEC.

NOTES:

1. CONNECT TO LIGHTING BRANCH CIRCUIT AND CONTROLS IN THIS AREA.

PROJECT NORTH
TRUE NORTH

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JASPER WATERWORKS - NEW BUILD
3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER: 23031-A

DATE: 06/29/26

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SHEET TITLE: LEVEL 1 FLOOR PLAN - ELECTRICAL CONNECTION TO MECHANICAL - PART B

SHEET NUMBER: E401

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GENERAL NOTES:

1. COORDINATE LOCATIONS AND QUANTITIES OF FIRE PROTECTION AND FIRE ALARM MONITORING DEVICES WITH FIRE PROTECTION SHOP DRAWINGS.



1 LEVEL 1 FLOOR PLAN - FIRE ALARM & AUXILIARY - PART A
1/8" = 1'-0"

PROJECT NORTH
TRUE NORTH

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3877 INDUSTRIAL PKWY
JASPER, AL 35501

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DATE:
06/29/26

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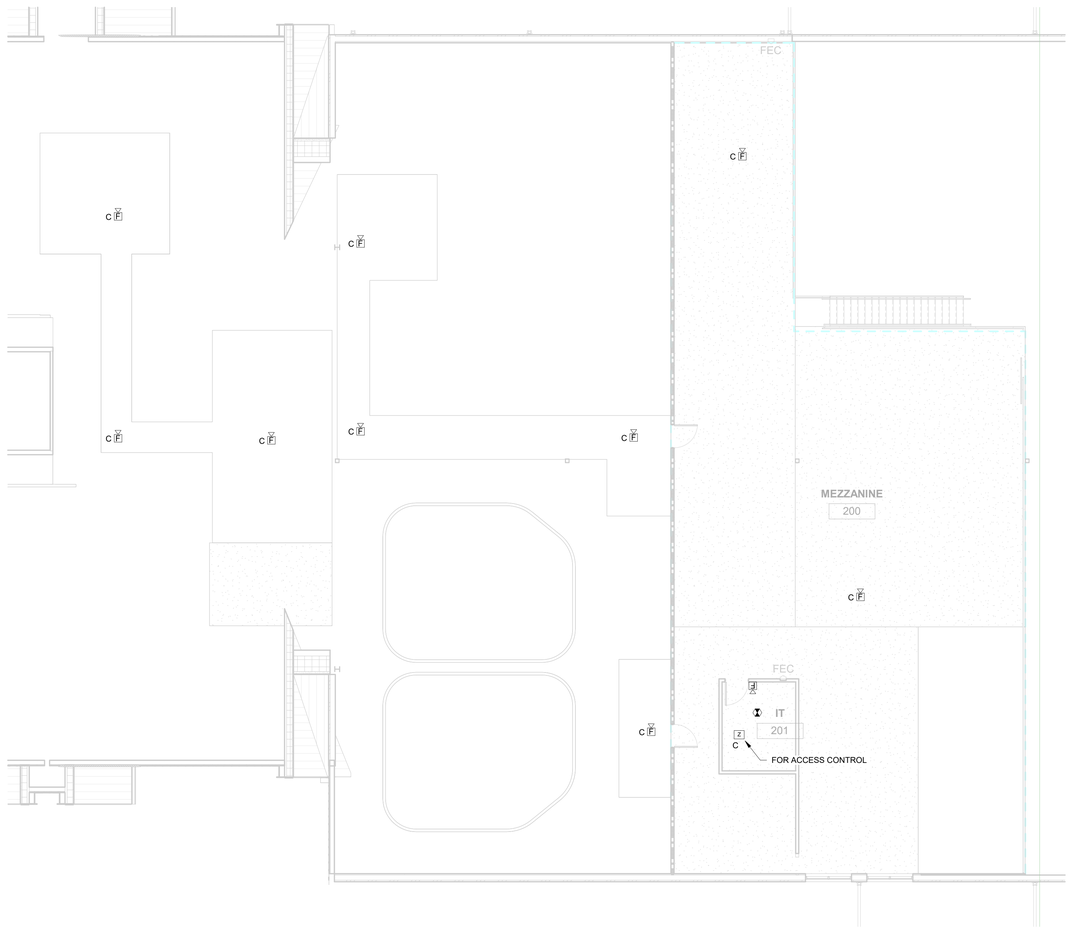
SHEET TITLE:
LEVEL 1 FLOOR PLAN - FIRE ALARM & AUXILIARY

SHEET NUMBER:
E500

GW ENGINEERING, LLC
4120 OVELOOK CIRCLE, TRUSSVILLE, AL 35173
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THIGGINBOTHAM@GW-ENG.COM | 205.317.3969

GENERAL NOTES:

1. COORDINATE LOCATIONS AND QUANTITIES OF FIRE PROTECTION AND FIRE ALARM MONITORING DEVICES WITH FIRE PROTECTION SHOP DRAWINGS.



1 MEZZANINE FLOOR PLAN - FIRE ALARM & AUXILIARY
1/8" = 1'-0"

ALABAMA
No. 38353
PROFESSIONAL ENGINEER
GREGORY WAMPLER
4/13/26

JASPER WATERWORKS - NEW BUILD

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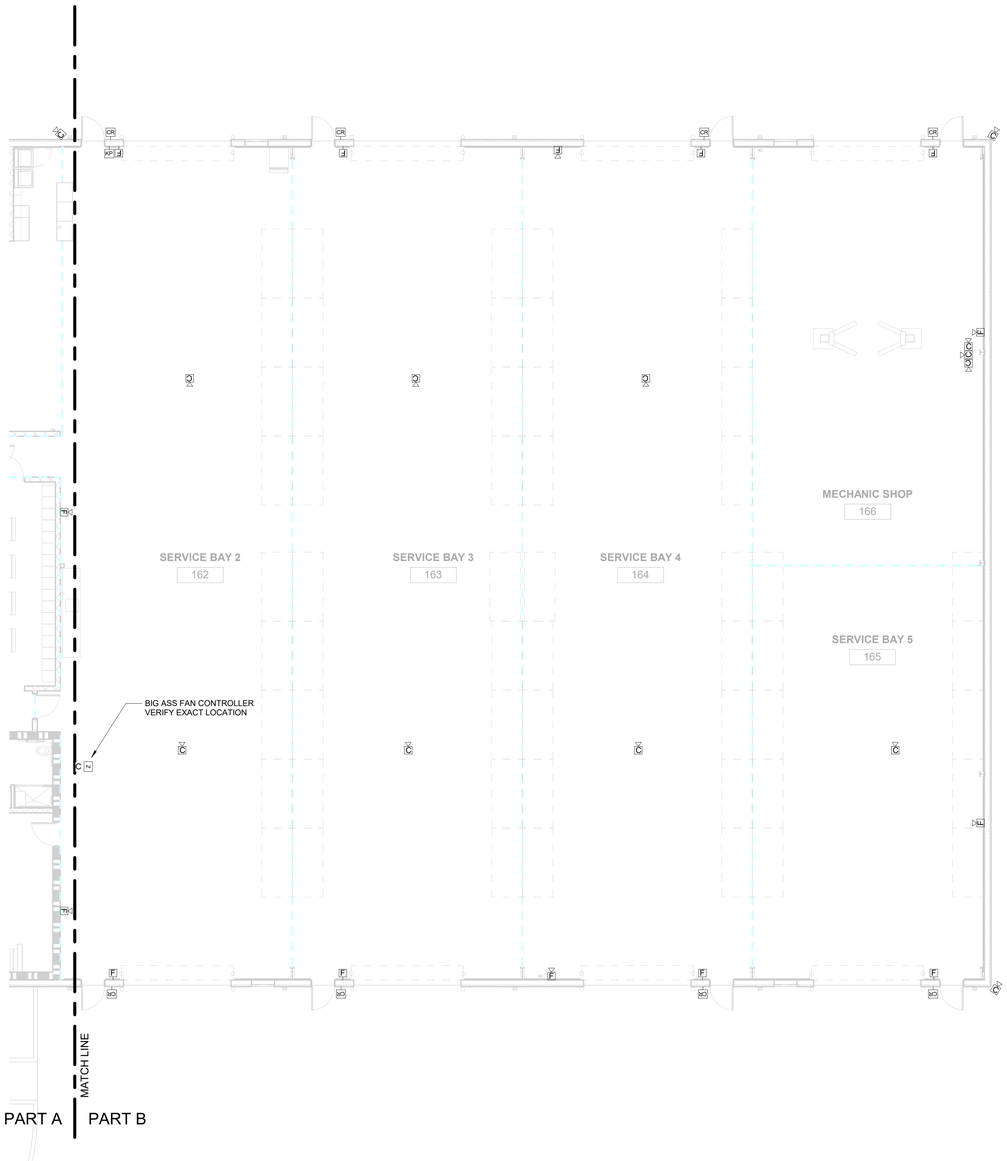
#	DESCRIPTION	DATE

SHEET TITLE:
LEVEL 2 FLOOR PLAN - FIRE ALARM & AUXILIARY

SHEET NUMBER:
E501

GW ENGINEERING, LLC
4120 OVELOOK CIRCLE, TRUSSVILLE, AL 35173
GWMANG@GW-ENG.COM | 205.413.4112
THIGGINBOTHAM@GW-ENG.COM | 205.317.3969

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K:\2023\23031-A\Revit\ELEC_CCR - Jasper Water Works\ELEC_24_JASPER WATERWORKS_1.rvt
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1 LEVEL 1 FLOOR PLAN - FIRE ALARM & AUXILIARY - PART B
1/8" = 1'-0"

PROJECT NORTH
TRUE NORTH

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J:\Projects\23031-A JASPER WATERWORKS - CCR - Jason Rowe\Revit\E_24_JASPER WATERWORKS_1.rvt

ALABAMA
No. 38353
PROFESSIONAL ENGINEER
GREGORY WAMMACK
7/13/26

JASPER WATERWORKS - NEW BUILD

3877 INDUSTRIAL PKWY
JASPER, AL 35501

JOB NUMBER:
23031-A

DATE:
06/29/26

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SHEET TITLE:
LEVEL 1 FLOOR PLAN - FIRE ALARM & AUXILIARY - PART B

SHEET NUMBER:
E502

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