THESE SHEETS ARE BEST PRINTED IN COLOR FOR GRAPHIC CLARITY AND INTENT

SOFTBALL UPGRADES

VICKSBURG WARREN SCHOOL DISTRICT

3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

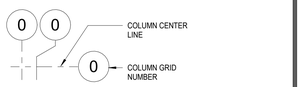
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11/10/2025 9:47:40 AM

MP DESIGN GROUP
DAVID MACHADO · BRAD PATANO · GERROD KILPATRIK · BRAD JONES
REGISTERED ARCHITECT VANESSA MCKINNEY STATE OF MISSISSIPPI 10/15/25
YOUR PROJECT · OUR PRIORITY · NO EXCUSES

GENERAL GRAPHIC LEGEND

SYMBOL-COLUMN GRID



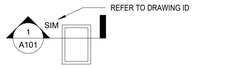
SYMBOL-FINISHED FLOOR ELEVATION



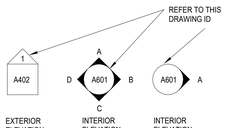
SYMBOL-SPOT ELEVATION



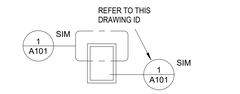
SYMBOL-BUILDING SECTION / WALL SECTION



SYMBOL-EXTERIOR ELEVATION / INTERIOR ELEVATION



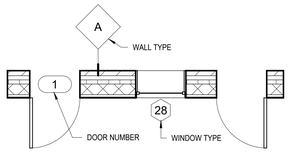
SYMBOL-DETAIL CALLOUT



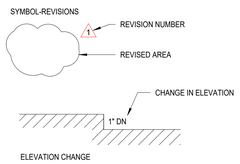
SYMBOL-ROOM TAG



SYMBOL-WALL / DOOR / WINDOW



SYMBOL-REVISIONS



ABBREVIATIONS INDEX

A

&	AND
@	AT
∠	ANGLE
A/C	AIR CONDITIONING
ACT	ACOUSTICAL CEILING TILE
ADD'L	ADDITIONAL
ADJ	ADJUSTABLE
AF	ACCESS FLOORING
AFD	AUTOMATIC FIRE DAMPER
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT
ASF	ALUMINUM STORE FRONT
ATS	AUTOMATIC TRANSFER SWITCH

B

BTWN	BETWEEN
BIT	BITUMEN
BJ	BAR JOIST
BLDG	BUILDING
BLK	BLOCK
BLK'G	BLOCKING
BLT	BUILT
BM	BEAM
BO	BOTTOM OF
BR	BACKER ROD
BTWN	BETWEEN

C

CAP	CAPACITY
C/C	CENTER TO CENTER
CCTV	CLOSED CIRCUIT TELEVISION
CJ	CONTROL JOINT
CL	CLEAR
CLG	CEILING
CLO	CLOSET
CLR	COLOR
CMU	CONCRETE MASONRY UNIT
CONTR	CONTRACTOR
COL	COLUMN
COMP	COMPRESSION OR COMPRESSED
CONC	CONCRETE
COND	CONDENSATE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CPLNG	COUPLING
CPT	CARPET
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTR	CENTERS CENTER
CW	COLD WATER

D

DIA / Ø	DIAMETER
DB	DRY BULB
DBL	DOUBLE
DEFL	DEFLECTION
DEPT	DEPARTMENT
DET/DTL	DETAIL
DIS	DISCONNECT
DISP	DISPENSER
DK	DARK
DN	DOWN
DP	DAMP PROOFING OR DISTRIBUTION PANEL
DS	DOWNSPOUT
DWG(S)	DRAWING(S)

E

EA	EACH
EDF	ELECTRONIC DRINKING FOUNTAIN
EF	EXHAUST FAN
EFC	EACH FACE
EXTR	EXTRUDED

E (CONT)

EJ	EXPANSION JOINT
ELEC	ELECTRICAL
EL/ELEV	ELEVATION
EMBED	EMBEDDED
ENGR	ENGINEER
ENT	ENTERING/ ENTRY
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EXPOSED STRUCTURE
EXH	EXHAUST
EXPAN	EXPANSION
EXT	EXTERIOR

F

FA	FIRE ALARM
FAC	FIRE ALARM CABINET
FAP	FIRE ALARM PANEL
FAR	FIRE ALARM REMOTE
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FH	FIRE HYDRANT
FIN	FINISH
FLR	FLOOR
FOC	FACE OF CONC
FOB	FACE OF BRICK
FR	FRAME
FRP	FIBER REINFORCED PLASTIC
FS	FLOW SWITCH
FTG	FOOTING

G

GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GF CMU	GROUND FACE CMU
GL	GLASS
GPM	GALLONS PER MIN.
GYP BD	GYPSUM BOARD

H

HB	HOSE BIB
HC	HANDICAP
HCP	HVAC CONTROL PANEL
HDWR	HARDWARE
HM	HOLLOW METAL
HP	HIGH POINT
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HW	HOT WATER
HVAC	HEATING, VENTILATION, AIR CONDITIONING

I

IC	INTERCOM
INSUL	INSULATION
INT	INTERIOR
INV	INVERT

J

JAN	JANITOR
JNT	JOINT
JST	JOIST

K

LAM	LAMINATE(D)
LAT	LAY-IN ACOUSTICAL CEILING
LAV	LAVATORY
LF	LINEAR FEET
LG	LEG
LP	LIGHT POLE

L

LAM	LAMINATE
LAV	LAVATORY
LC	LIGHTING CONTACTOR
LP	LIGHTING PANEL
LT	LIGHT

M

MA	MIXED AIR
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MDP	MAIN DISTRIBUTION PANEL
ME	MECHANICAL EQUIPMENT
MECH	MECHANICAL
MFR/MFGR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MAS	MODIFIED
MRV	MOISTURE RELEASE VENT
MT	METAL THRESHOLD
MTD	MOUNTED
MTL	METAL

N

N/A	NOT APPLICABLE
NF	NATURAL FINISH
NIC	NOT IN CONTRACT
NO / #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE

O

OA	OUTSIDE AIR
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OZ	OUNCE

P

±, +/_	PLUS OR MINUS
PT	PAINT
PART'N	PARTITION
PRE-FIN	PRE FINISH(ED)
PL	PLATE
PPL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PNL	PANEL
PP	POWER POLE / POWER PANEL
PR	PAIR
PRE FAB	PREFABRICATED
PROJ	PROJECTION
PSF	POUNDS/SQUARE INCH
PTD	PAPER TOWEL DISPENSER

Q

QT	QUARRY TILE
QTB	QUARRY TILE BASE
QTY	QUANTITY

R

RA	RETURN AIR
RB	RUBBER BASE
RD	ROOF DRAIN
RE:	REFER TO
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCED
REQ'D	REQUIRED

R (CONT)

RET	RETURN
RM	ROOM
R.O	ROUGH OPENING
RTU	ROOF TOP UNIT

S

SA	SUPPLY AIR
SAN	SANITARY
SAFM	SELF ADHERING FLASHING MEMBRANE
SCHED	SCHEDULE
SCO	SANITARY CLEANOUT
SCWD	SOLID CORE WOOD
SECT	SECTION
SF	STOREFRONT/ SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SL	SLOPE
SP	SPACING
SPEC	SPECIFIED / SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUP	SUPPLY
SUSP	SUSPENDED
SYN	SYNTHETIC

T

TB	TELECOMMUNICATION BACKERBOARD
T&B	TOP & BOTTOM
TBM	TEMPORARY BENCH MARK
TEL	TELEPHONE
T&G	TOUNGE & GROOVE
THRESH	THRESHOLD
TLT	TOILET
T.O.	TOP OF
T.O.B.	TOP OF BEAM
T.O.S.	TOP OF STRUCTURE
TP	TOILET PAPER HOLDER
TR	TELECOMMUNICATION RACK
TRANS	TRANSFORMER
TRTD	TREATED
TYP	TYPICAL ALL SIMILAR CONDITIONS

U

UC	UNDER COUNTER
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE

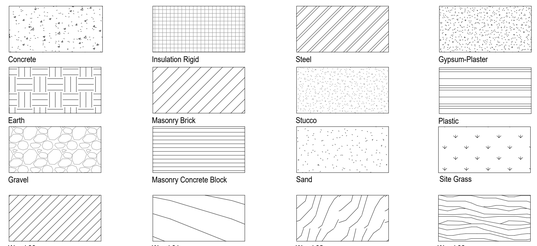
V

VAR	VARIES
VD	VOLUME DAMPER
VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
VIF	VERIFY IN FIELD
VTR	VENT-THRU-ROOF
VWC	VINYL WALL COVERING

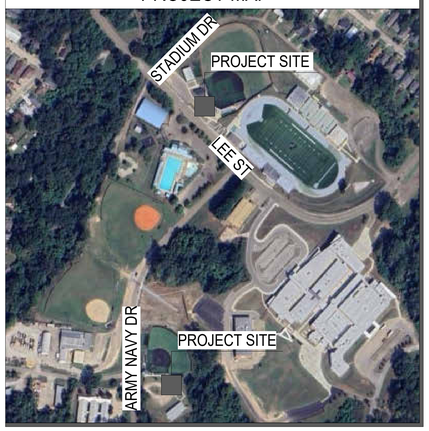
W

W	WIDE, WIDTH
W/	WITH
W/O	WITHOUT
WD	WOOD
WG	WATER GAUGE
WGVP	WIRE GLASS VISION PANEL
WH	WATER HEATER
WP	WATERPROOFING
WPMB	WATERPROOFING MEMBRANE

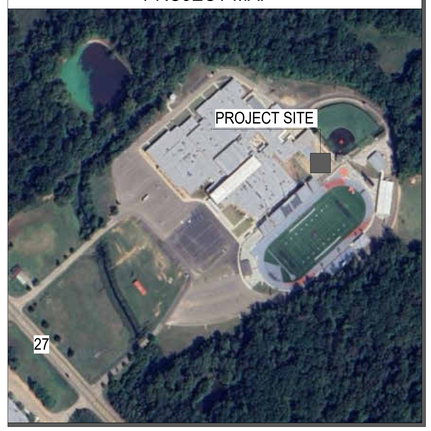
MATERIAL HATCH LEGEND



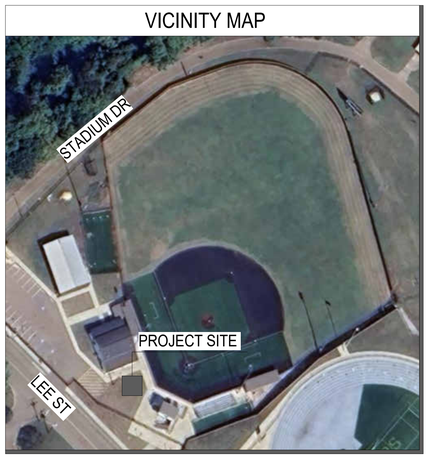
PROJECT MAP



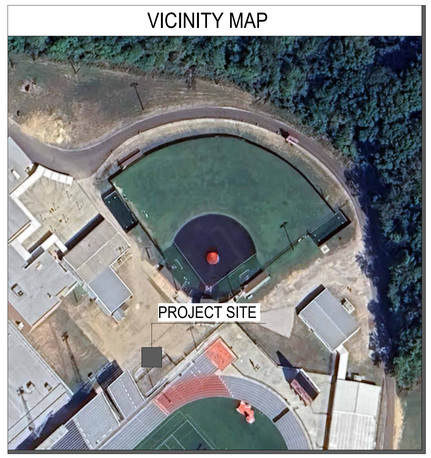
PROJECT MAP



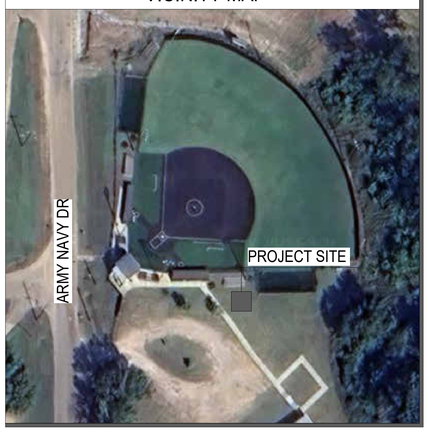
VICINITY MAP



VICINITY MAP



VICINITY MAP



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C220 SITE LAYOUT PLAN (VICKSBURG HIGH SCHOOL SOFTBALL)
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C222 SITE LAYOUT PLAN (WARREN CENTRAL HIGH SCHOOL SOFTBALL)
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C302 SITE GRADING PLAN (WARREN CENTRAL HIGH SCHOOL SOFTBALL)
C310 SITE DRAINAGE (VICKSBURG HIGH SCHOOL SOFTBALL)
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PROJECT GENERAL NOTES

1. THE CONSTRUCTION DOCUMENTS ARE COMPRISED OF BOTH DRAWINGS AND SPECIFICATIONS (PROJECT MANUAL). THE GENERAL CONTRACTOR SHALL NOT BREAK OUT SECTIONS TO SUB-CONTRACTORS OR VENDORS.
2. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
3. BIDDERS SHALL FIELD VERIFY ALL EXISTING CONDITIONS ON THE PROJECT JOB SITE PRIOR TO BIDDING.
4. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK OF ALL TRADES TO INSURE A USABLE & FUNCTIONAL END PRODUCT. ANY CONFLICTS BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE CLARIFIED BY THE ARCHITECT/ENGINEER. IF NO CLARIFICATION IS ISSUED THE BIDDER SHALL BID THE MOST STRINGENT PRODUCT OR APPLICATION.
5. IF ANY MATERIAL SUSPECTED TO CONTAIN ASBESTOS IS DISCOVERED ALL WORK IN THE VICINITY SHALL BE IMMEDIATELY SUSPENDED. THE OWNER AND ARCHITECT SHALL BE NOTIFIED IN WRITING AND NO WORK SHALL RESUME IN THE SUSPECT AREA UNTIL A CERTIFIED INSPECTION, VERIFICATION AND/OR REMOVAL OF ASBESTOS CONTAINING MATERIAL IS PERFORMED. NO NEW MATERIAL SHALL CONTAIN ASBESTOS.
6. GENERAL CONTRACTOR IS RESPONSIBLE FOR SECURING AND PROTECTING ALL CONSTRUCTION MATERIALS, EQUIPMENT, TOOLS, AND TEMPORARY FACILITIES ON THE JOB SITE FOR THE DURATION OF THE PROJECT.
7. GENERAL CONTRACTOR SHALL PLACE AND MAINTAIN THROUGHOUT DURATION OF PROJECT SPECIFIED GROUND MATERIAL OVER SOILS ADJACENT TO BUILDING PRIOR TO INSTALLING EXTERIOR WALL FINISH MATERIALS TO PREVENT STAINING ON FINISHED PRODUCT. ALL STAINS ON EXTERIOR WALL MATERIALS SHALL BE CLEANED AND FULLY REMOVED BEFORE SUBSTANTIAL COMPLETION OF PROJECT AT NO ADDITIONAL COST TO THE OWNER. IF STAINS CAN NOT BE REMOVED FROM THE FINISH MATERIALS, THE MATERIAL MUST BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
8. GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SUBMITTALS FOR REVIEW AND APPROVAL BEFORE PROCEEDING WITH CONSTRUCTION. CONTRACTOR IS PROCEEDING AT HIS OWN RISK IF MATERIAL OR COMPONENTS ARE INSTALLED PRIOR TO RECEIVING REVIEWED AND EXECUTED SHOP DRAWINGS AND SUBMITTALS. CONTRACTOR SHALL TAKE LIABILITY FOR REMOVAL AND REPLACEMENT, AT NO ADDITIONAL COST TO THE OWNER, OF ALL MATERIAL, COMPONENTS AND LABOR FOR WORK INSTALLED WITHOUT SIGNED/STAMPED/APPROVED SHOP DRAWINGS AND SUBMITTALS.
9. ALL WORK ASSOCIATED WITH THIS PROJECT INCLUDING DEMOLITION AND NEW CONSTRUCTION, SHALL STRICTLY ADHERE TO ALL APPLICABLE SAFETY GUIDELINES AND REQUIREMENTS SET FORTH BY LOCAL, FEDERAL AND CIVIL LAWS/REGULATIONS.
10. GENERAL CONTRACTOR, SUB-CONTRACTORS AND SUPPLIERS SHALL MAINTAIN A NEAT AND ORDERLY WORK SITE. ACCUMULATION OF TRASH OR DEMOLITION/CONSTRUCTION DEBRIS WITHIN OR OUTSIDE OF CONSTRUCTION SITE IS PROHIBITED. DEMOLITION/CONSTRUCTION DEBRIS AND TRASH SHALL BE REMOVED FROM SITE ON A DAILY BASIS. CONTRACTOR SHALL PROVIDE APPROPRIATE DUMPSTER(S) IN DESIGNATED AREAS PER CODES AND OWNER DIRECTION/REGULATIONS.
11. GENERAL CONTRACTOR SHALL VERIFY COMPATIBILITY OF ALL NEW MATERIALS TO BE INSTALLED OR APPLIED TO NEW OR EXISTING SURFACES. GENERAL CONTRACTOR SHALL FOLLOW ALL MANUFACTURER REQUIREMENTS, INSTRUCTIONS, AND RECOMMENDATIONS FOR INSTALLATION AND WARRANTY OF ALL MATERIAL USED ON THIS PROJECT. MANUFACTURER WARRANTIES SHALL BE ISSUED WHERE WARRANTIES ARE AVAILABLE. ALL PROJECT WORK SHALL USE MANUFACTURER APPROVED AND COMPATIBLE MATERIALS AND METHODS, INCLUDING ADHESIVES, SEALANTS, SOLVENTS, ETC.
12. ALL ROOF WORK TO BE PERFORMED SHALL MEET ROOFING MANUFACTURERS REQUIREMENTS FOR WARRANTY COVERAGE. ALL ROOFING WORK TO BE ACCOMPLISHED SHALL BE INSTALLED BY AN APPLICATOR WHICH IS APPROVED BY THE ROOFING MANUFACTURER. ROOFING APPLICATOR SHALL PROVIDE PROOF OF ACCEPTANCE BY MANUFACTURER PRIOR TO ANY WORK. ALL PENETRATIONS THROUGH NEW OR EXISTING ROOFING SHALL BE INSTALLED PER MANUFACTURER'S STANDARD APPLICATION DETAILS. NO WORK COMPLETED SHALL VOID ANY WARRANTY ON ANY EXISTING ROOF SYSTEM. ALL NEW ROOFING WORK SHALL BE COMPATIBLE WITH ANY EXISTING ROOF SYSTEM INSTALLED.
13. ALL BID AMOUNTS MUST BE BASED ON THE MOST STRINGENT REQUIREMENT CALLED FOR IN THE COMPLETE CONSTRUCTION DOCUMENT PACKAGE. IN ADDITION, THE MOST STRINGENT REQUIREMENT SHOWN SHALL GOVERN AND TAKE PRECEDENCE IN THE EVENT OF ANY AND ALL CONFLICTS BETWEEN DIFFERENT DRAWINGS (PLANS, ELEVATIONS, DETAILS, SECTIONS, SCHEDULES, ETC...), BETWEEN DIFFERENT SPECIFICATION SECTIONS, WITHIN SPECIFICATION SECTIONS, AND BETWEEN THE DRAWINGS AND THE SPECIFICATIONS. IT WILL BE THE GENERAL CONTRACTORS RESPONSIBILITY TO BRING ANY AND ALL DISCREPANCIES TO THE ARCHITECT'S ATTENTION FOR FURTHER CLARITY PRIOR TO SUBMITTING A FORMAL BID.
14. ALL SITE INSPECTIONS, SITE VISITS, SITE MEETINGS, ETC... NOT PREVIOUSLY SCHEDULED, WHICH ARE REQUIRED FOR ANY REASON, ARRANGED OR SCHEDULED BY THE GENERAL CONTRACTOR, OR ANY OF THE PROJECT'S SUBCONTRACTORS, VENDERS, SUPPLIERS, ETC... THAT REQUIRE THE INVOLVEMENT OF ANY EMPLOYEE OF MP DESIGN GROUP OR ANY CONSULTANT OF MP DESIGN GROUP SHALL BE ARRANGED AND FINALIZED IN WRITING AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE WITH MP DESIGN GROUP.

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS INDICATED
PROJECT NO: 0323.25.002
DRAWN BY: CG
CHECKED BY: VJH

GENERAL NOTES, ABBREV, SYMBOLS, SHEET INDEX

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION

G101

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE IN THE OFFICES. ADD DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY

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ADA & ABA GENERAL NOTES

1. ITEMS, DIMENSIONS, AND CLEARANCES SHOWN ON THESE DIAGRAMS ARE TYPICAL PROJECT TO PROJECT CONDITIONS AND ARE NOT INTENDED TO BE ALL INCLUSIVE, NOR MAY THEY ALL BE APPLICABLE FOR THIS SPECIFIC PROJECT. THEY ARE SHOWN FOR GENERAL REFERENCE PURPOSES ONLY DEPICTING THE MINIMUM REQUIREMENTS ALLOWED BY THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (ADA). THEY DO NOT REPRESENT A COMPLETE LISTING OF GUIDELINES OR STANDARDS NECESSARY TO MEET THE 2010 ADA ACCESSIBILITY CODE REQUIREMENTS. THE OVERALL INTENT OF THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT IS FOR IT TO BE IN FULL COMPLIANCE WITH THE 2010 ADA IN ITS ENTIRETY. IF A SITUATION ARISES DURING CONSTRUCTION WHERE A DISCREPANCY OCCURS BETWEEN A DESIGNED DETAIL OR A BUILT CONDITION AND THE MINIMUM REQUIREMENTS SET FORTH BY THESE DIAGRAMS OR ANY DIAGRAM IN THE 2010 ADA, THEN IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ARCHITECT TO ASSIST WITH MAKING A RESOLUTION PRIOR TO MOVING FORWARD WITH CONSTRUCTION OF THE AFFECTED DETAIL.
2. ALL DIMENSIONS ARE INDICATED IN INCHES UNLESS NOTED OTHERWISE.
3. ALL GRAPHICS SHOWN ARE TAKEN FROM THE LATEST EDITION OF AMERICANS WITH DISABILITIES ACT AND ARCHITECTURAL BARRIERS ACT ACCESSIBILITY GUIDELINES.
4. ADDITIONAL ADA/ABA REQUIREMENTS MAY BE REQUIRED BY LOCAL JURISDICTION, STATE AND LOCAL GOVERNMENT AND LOCAL ORDNANCES. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ADDITIONAL REQUIREMENTS AND IMPLEMENTING THESE REQUIREMENTS.
5. IF LOCAL JURISDICTION, STATE AND LOCAL GOVERNMENT AND LOCAL ORDNANCES DIFFER FROM WHAT IS SHOWN ON THIS SHEET THE CONTRACTOR SHALL BRING IT TO THE ARCHITECTS ATTENTION IN WRITING PRIOR TO BIDDING.

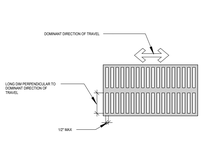


FIGURE 302.3
ELONGATED OPENINGS IN FLOOR OR GROUND SURFACES

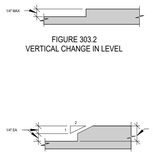


FIGURE 303.2
VERTICAL CHANGE IN LEVEL

FIGURE 303.3
BEVELED CHANGE IN LEVEL

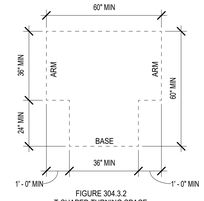


FIGURE 304.3.2
T-SHAPED TURNING SPACE

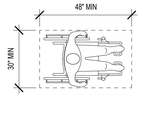


FIGURE 305.3
CLEAR FLOOR OR GROUND SPACE

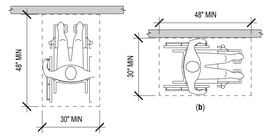


FIGURE 305.5
POSITION OF CLEAR FLOOR OR GROUND SPACE

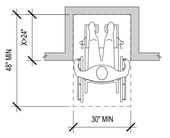


FIGURE 305.7.1
MANEUVERING CLEARANCE IN AND ALCOVE, FORWARD APPROACH

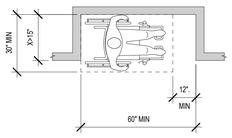


FIGURE 305.7.2
MANEUVERING CLEARANCE IN AND ALCOVE, PARALLEL APPROACH

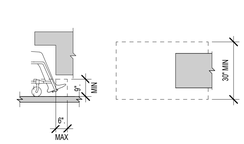


FIGURE 306.2
TOE CLEARANCE

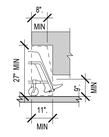
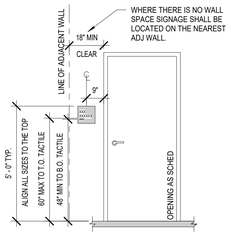


FIGURE 306.3
KNEE CLEARANCE



ADA SIGN MOUNTING HEIGHT

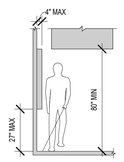


FIGURE 307.2
LIMITS OF PROTRUDING OBJECTS

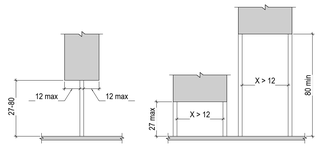


FIGURE 307.3
POST-MOUNTED PROTRUDING OBJECTS

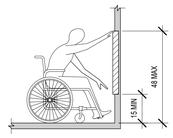


FIGURE 308.2.1
UNOBSTRUCTED FORWARD REACH

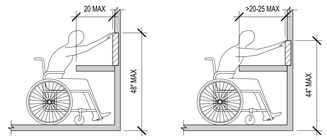


FIGURE 308.2.2
OBSTRUCTED HIGH FORWARD REACH

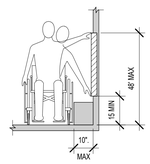


FIGURE 308.3.1
UNOBSTRUCTED SIDE REACH

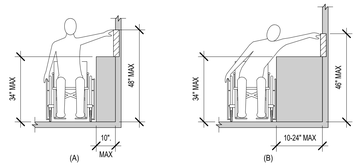


FIGURE 308.3.2
OBSTRUCTED HIGH SIDE REACH

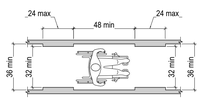
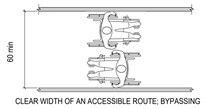


FIGURE 403.5.1
CLEAR WIDTH OF AN ACCESSIBLE ROUTE



CLEAR WIDTH OF AN ACCESSIBLE ROUTE; BYPASSING

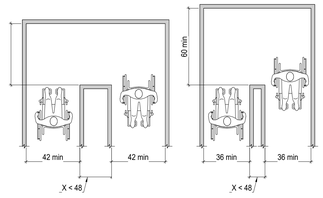
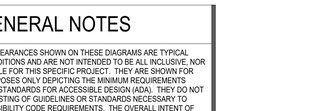
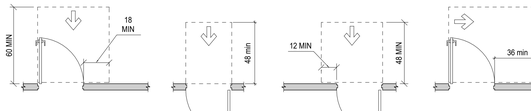


FIGURE 403.5.2
CLEAR WIDTH AT TURN



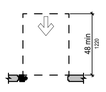
(A) HINGED DOOR (B) SLIDING DOOR (C) FOLDING DOOR

FIGURE 404.2.3
CLEAR WIDTH OF DOORWAYS

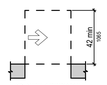


(A) FRONT APPROACH, PULL SIDE (B) FRONT APPROACH, PUSH SIDE (C) FRONT APPROACH, PUSH SIDE WITH CLOSURE AND LATCH (D) HINGE APPROACH, PULL SIDE (E) HINGE APPROACH, PULL SIDE (F) HINGE APPROACH, PUSH SIDE (G) HINGE APPROACH, PUSH SIDE, DOOR PROVIDED WITH CLOSURE AND LATCH (H) LATCH APPROACH, PULL SIDE (I) LATCH APPROACH, PULL SIDE DOOR PROVIDED WITH CLOSER (J) LATCH APPROACH, PUSH SIDE (K) LATCH APPROACH, PUSH SIDE DOOR PROVIDED WITH CLOSER

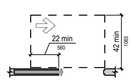
FIGURE 404.2.4.1
MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES



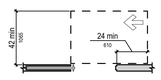
(A) FRONT APPROACH



(B) SIDE APPROACH



(C) POCKET OR HINGE APPROACH



(D) STOP OR LATCH APPROACH

FIGURE 404.2.4.2
MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES, AND FOLDING DOORS

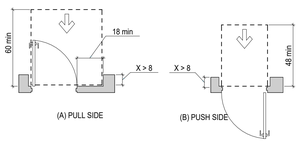


FIGURE 404.2.4.3
MANEUVERING CLEARANCE AT RECESSED DOORS AND GATES

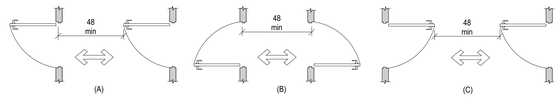


FIGURE 404.2.6
DOORS IN SERIES AND GATES IN SERIES

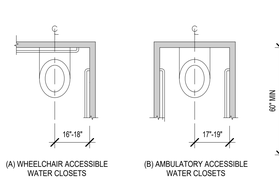


FIGURE 604.2
WATER CLOSET LOCATION

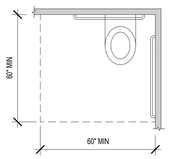


FIGURE 604.3.1
SIZE OF CLEARANCE AT WATER CLOSETS

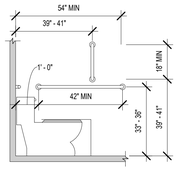


FIGURE 604.5.1
SIDE WALL GRAB BAR FOR WATER CLOSET

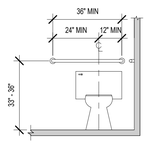


FIGURE 604.5.2
REAR WALL GRAB BAR FOR WATER CLOSET

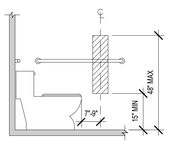
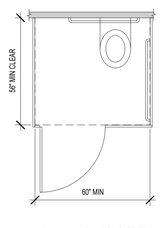
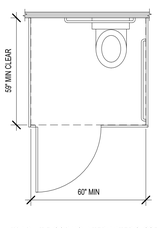


FIGURE 604.7
DISPENSER OUTLET LOCATION



(A) ADULT WALL HUNG WATER CLOSET



(B) ADULT FLOOR MOUNTED WATER CLOSET AND CHILDREN'S WATER CLOSET

FIGURE 604.8.1.1
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS

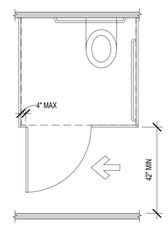


FIGURE 604.8.1.2
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS

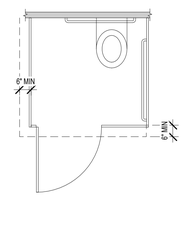
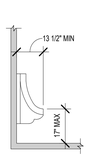
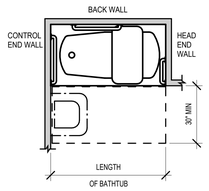


FIGURE 604.8.1.4
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE

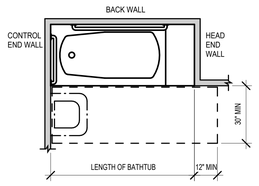


(A) WALL HUNG TYPE

FIGURE 605.2
HEIGHT AND DEPTH OF URINALS

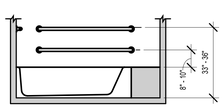


(A) REMOVABLE IN-TUB SEAT

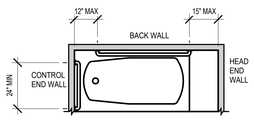


(B) PERMANENT SEAT

FIGURE 607.2
CLEARANCE FOR BATHTUBS

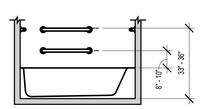


(A) ELEVATION

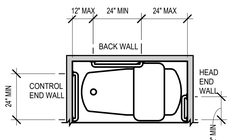


(B) PLAN

FIGURE 607.4.1
GRAB BARS FOR BATHTUBS WITH PERMANENT SEATS



(A) ELEVATION



(B) PLAN

FIGURE 607.4.2
GRAB BARS FOR BATHTUBS WITH REMOVABLE IN-TUB SEATS

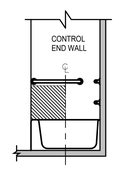


FIGURE 607.5
BATHTUB CONTROL LOCATION

THE ORIGINAL, SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROPRIATE AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY © COPYRIGHTED MATERIAL YOUR PROJECT - OUR PRIORITY - NO EXCUSES

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REGISTERED ARCHITECT VANCE JOHNSTON 10191 STATE OF MISSISSIPPI

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

ADA & ABA STANDARDS

NO.	DATE	REVISION/ SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION

SCALE: AS INDICATED
PROJECT NO: 0323.25.002
DRAWN BY: CG
CHECKED BY: VJH

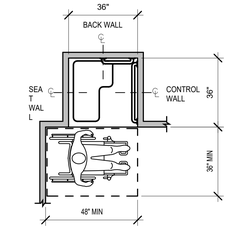
G102

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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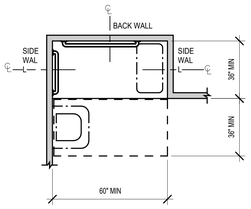
ADA & ABA GENERAL NOTES

1. ITEMS, DIMENSIONS, AND CLEARANCES SHOWN ON THESE DIAGRAMS ARE TYPICAL PROJECT TO PROJECT CONDITIONS AND ARE NOT INTENDED TO BE ALL INCLUSIVE, NOR MAY THEY ALL BE APPLICABLE FOR THIS SPECIFIC PROJECT. THEY ARE SHOWN FOR GENERAL REFERENCE PURPOSES ONLY DEPICTING THE MINIMUM REQUIREMENTS ALLOWED BY THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (ADA). THEY DO NOT REPRESENT A COMPLETE LISTING OF GUIDELINES OR STANDARDS NECESSARY TO MEET THE 2010 ADA ACCESSIBILITY CODE REQUIREMENTS. THE OVERALL INTENT OF THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT IS FOR IT TO BE IN FULL COMPLIANCE WITH THE 2010 ADA IN ITS ENTIRETY. IF A SITUATION ARISES DURING CONSTRUCTION WHERE A DISCREPANCY OCCURS BETWEEN A DESIGNED DETAIL OR A BUILT CONDITION AND THE MINIMUM REQUIREMENTS SET FORTH BY THESE DIAGRAMS OR ANY DIAGRAM IN THE 2010 ADA, THEN IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ARCHITECT TO ASSIST WITH MAKING A RESOLUTION PRIOR TO MOVING FORWARD WITH CONSTRUCTION OF THE AFFECTED DETAIL.
2. ALL DIMENSIONS ARE INDICATED IN INCHES UNLESS NOTED OTHERWISE.
3. ALL GRAPHICS SHOWN ARE TAKEN FROM THE LATEST EDITION OF AMERICANS WITH DISABILITIES ACT AND ARCHITECTURAL BARRIERS ACT ACCESSIBILITY GUIDELINES.
4. ADDITIONAL ADA/ABA REQUIREMENTS MAY BE REQUIRED BY LOCAL JURISDICTION, STATE AND LOCAL GOVERNMENT AND LOCAL ORDNANCES. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ADDITIONAL REQUIREMENTS AND IMPLEMENTING THESE REQUIREMENTS.
5. IF LOCAL JURISDICTION, STATE AND LOCAL GOVERNMENT AND LOCAL ORDNANCES DIFFER FROM WHAT IS SHOWN ON THIS SHEET THE CONTRACTOR SHALL BRING IT TO THE ARCHITECTS ATTENTION IN WRITING PRIOR TO BIDDING.



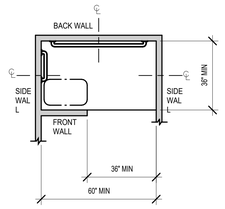
NOTE: INSIDE FINISHED DIMENSIONS MEASURED AT THE CENTER POINTS OF OPPOSING SIDES

FIGURE 608.2.1
TRANSFER TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE



NOTE: INSIDE FINISHED DIMENSIONS MEASURED AT THE CENTER POINTS OF OPPOSING SIDES

FIGURE 608.2.2
STANDARD ROLL-IN TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE



NOTE: INSIDE FINISHED DIMENSIONS MEASURED AT THE CENTER POINTS OF OPPOSING SIDES

FIGURE 608.2.3
ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

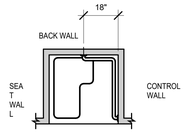
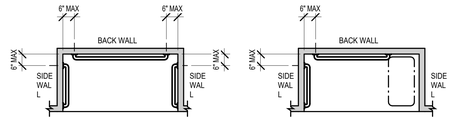


FIGURE 608.3.1
GRAB BARS FOR TRANSFER-TYPE SHOWERS



(A) WITHOUT SEAT (B) WITH SEAT

FIGURE 608.3.2
GRAB BARS FOR STANDARD ROLL-IN TYPE SHOWERS

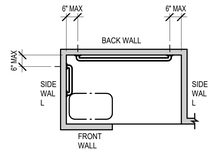


FIGURE 608.3.3
GRAB BARS FOR ALTERNATE ROLL-IN TYPE SHOWERS

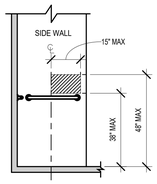
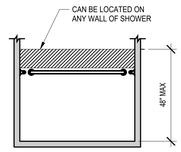
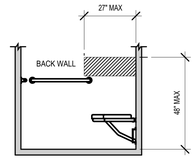


FIGURE 608.5.1
TRANSFER-TYPE SHOWER COMPARTMENT CONTROL LOCATION



(A) WITHOUT SEAT



(B) WITH SEAT

FIGURE 608.5.2
STANDARD ROLL-IN TYPE SHOWER COMPARTMNET CONTROL LOCATION

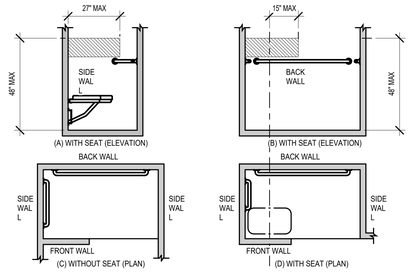


FIGURE 608.5.3
ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT CONTROL LOCATION

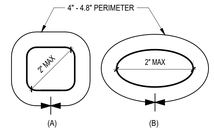


FIGURE 609.2.2
GRAB BAR NON-CIRCULAR CROSS SECTION

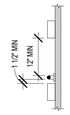
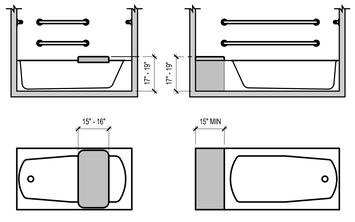
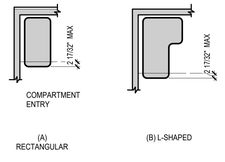


FIGURE 609.3
SPACING OF GRAB BARS



(A) REMOVABLE IN-TUB SEAT (B) PERMANENT SEAT

FIGURE 610.2
BATHTUB SEATS



(A) RECTANGULAR (B) L-SHAPED

FIGURE 610.3
EXTENT OF SEAT

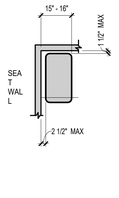
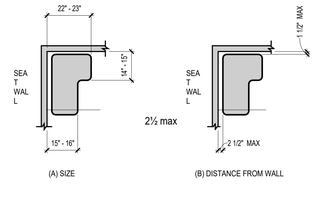


FIGURE 610.3.1
RECTANGULAR SHOWER SEAT



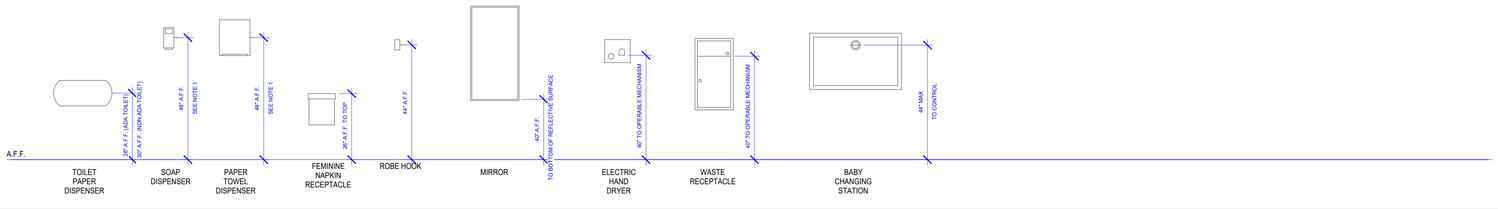
(A) SIZE (B) DISTANCE FROM WALL

FIGURE 610.3.2
L-SHAPED SHOWER SEAT

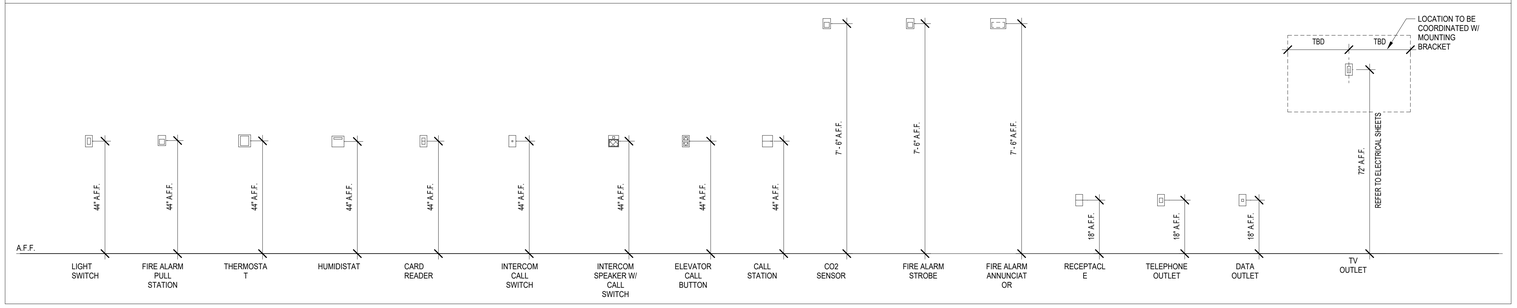
TYP. MOUNTING HEIGHT GENERAL NOTES

1. ANY DEVICE WITH OPERABLE COMPONENTS TO BE 48" MAX TO TOP OF OPERABLE COMPONENT. GC TO NOTIFY ARCHITECT PRIOR TO INSTALLATION OF ANY DEVIATIONS FROM THIS ADA MAXIMUM OPERABLE REACH HEIGHT.
2. ANY DEVICE WITH OPERABLE COMPONENTS TO BE 15" MIN TO BOTTOM OF OPERABLE COMPONENT. GC TO NOTIFY ARCHITECT PRIOR TO INSTALLATION OF ANY DEVIATIONS FROM THIS ADA MINIMUM OPERABLE REACH HEIGHT.
3. ALL TYPICAL MOUNTING HEIGHT DIMENSIONS SHOWN HEREIN ARE TO CENTERLINE OF DEVICE OR FIXTURE U.N.O.

TYPICAL TOILET ACCESSORY MOUNTING HEIGHTS



TYPICAL PLATE AND DEVICE MOUNTING HEIGHTS



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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS INDICATED
PROJECT NO: 0323.25.002
DRAWN BY: CG
CHECKED BY: VJH

ADA & ABA STANDARDS, CONT. & TYPICAL MOUNTING HEIGHTS

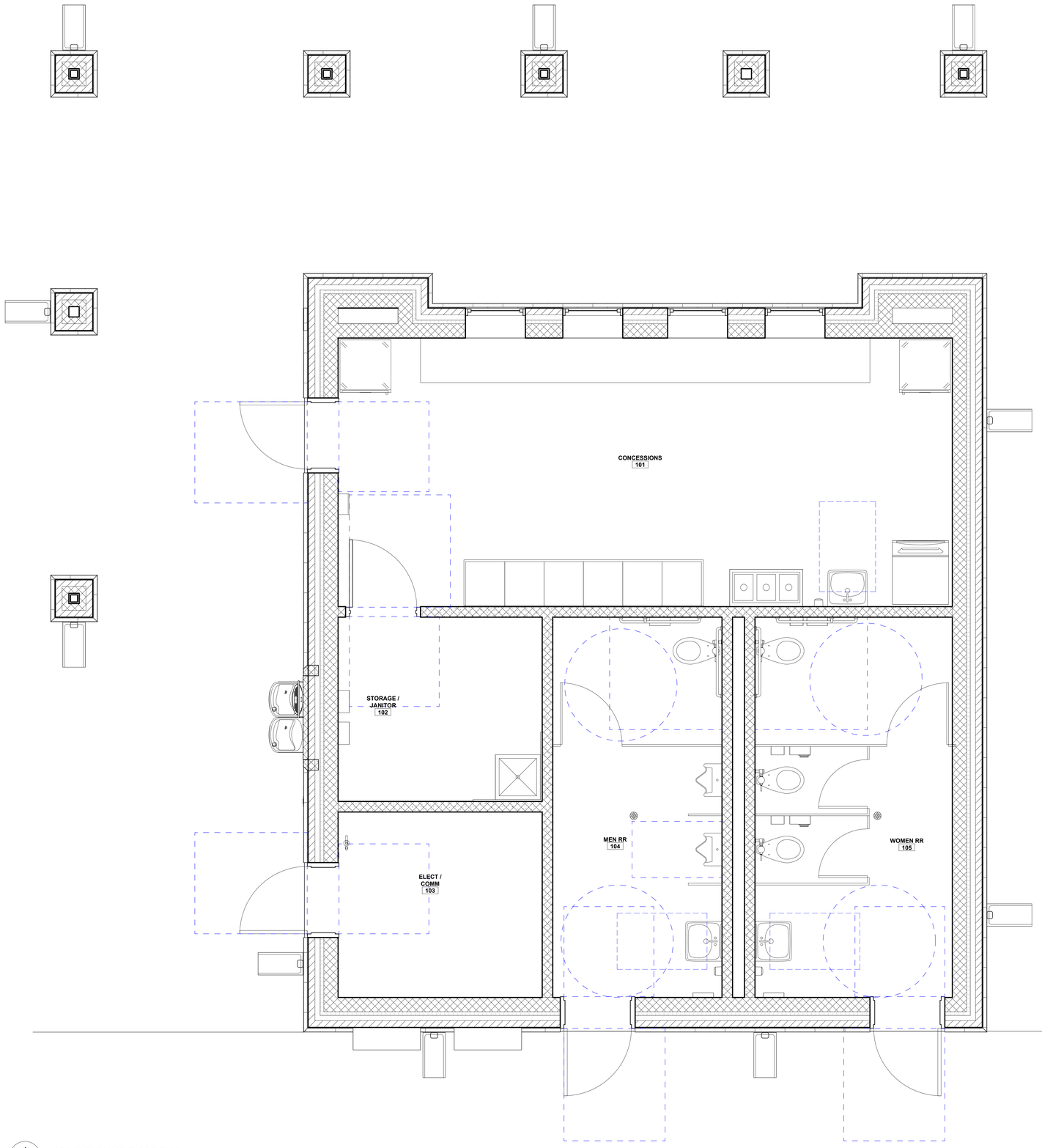
NO.	DATE	REVISION/ SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION

G103

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ADA CLEARANCES GENERAL NOTES

1. THIS PLAN IS SHOWN FOR GENERAL COORDINATION PURPOSES TO ENSURE ACCESSIBLE DOOR CLEARANCES ARE PROVIDED AND MAINTAINED.
2. DOOR PUSH AND PULL CLEARANCES ARE SHOWN AT ALL DOOR LOCATIONS TO INDICATE COMPLIANCE WITH ADA & ABA REQUIREMENTS. SEE SHEET G102 FOR REFERENCE.
3. THE USE OF CLOSERS ARE INDICATED AT EACH DOOR IN ORDER TO ENSURE ADDITIONAL INCHES REQUIRED WILL COMPLY WITH HARDWARE AS SCHEDULED.
4. APPROCH GRAPHICS ARE SHOWN AT DOOR LOCATIONS WHEN THE TRADITIONAL FRONT PUSH/PULL APPROCH IS NOT USED. IF NO APPROACH (ARROW) GRAPHIC IS PROVIDED; THE DOOR CLEARANCE SHOWN IS A FRONT APPROCH.



1 G104 ADA CLEARANCE FLOOR PLAN
1/2" = 1'-0"

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918 Howard Ave Suite F
Biloxi, Mississippi 39530
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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS INDICATED
PROJECT NO: 0323.25.002
DRAWN BY: CG
CHECKED BY: VJH

ADA CLEARANCE FLOOR PLAN

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION

G104

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

11/10/2025 9:47:44 AM

CODE STUDY : 2018

RESET

PART 1: GENERAL PROJECT INFORMATION

NAME OF PROJECT: SOFTBALL UPGRADES
ADDRESS: STREET: 3701 DRUMMOND ST / 1000 MS-27
CITY: VICKSBURG STATE: MS ZIP: 39180
PROPOSED USE: BUSINESS
PROJECT NUMBERS: MP: 0323.25.002

OWNER: VICKSBURG WARREN SCHOOL DISTRICT
CONTACT NAME: DR. TORIANO HOLLOWAY
ADDRESS: STREET: 1500 MISSION 66
CITY: VICKSBURG STATE: MS ZIP: 39180
CONTACT NUMBERS: (601) 638-5122
E-MAIL ADDRESS:

CONTRACTOR NAME: TBD
POINT OF CONTACT
ADDRESS: STREET:
CITY: STATE: ZIP:
CONTACT NUMBERS
E-MAIL ADDRESS

PRINCIPAL DESIGN FIRM: MP DESIGN GROUP
PROJECT MANAGERS: TYLER ABELL
ADDRESS: STREET: 918 HOWARD AVE. SUITE F
CITY: BILOXI STATE: MS ZIP: 39530
CONTACT NUMBERS: OFFICE: 228.388.1950 FAX: 228.388.1971
E-MAIL ADDRESS: tabell@mpdesigngroup.us

PROJECT DESIGN TEAM

DISCIPLINE	NAME:	LICENSE #:
ARCHITECTURE	VANESSA HEMENWAY	# 5416
CIVIL	BEN SELLERS	# 32997
ELECTRICAL	BRADLEY PATANO	# 17411
FIRE ALARM	BRADLEY PATANO	# 17411
PLUMBING	MICAH VAN DUUVENDIJK	#16922
MECHANICAL	MICAH VAN DUUVENDIJK	#16922
FIRE SUPPRESSION	MICAH VAN DUUVENDIJK	#16922
STRUCTURAL	BEN SELLERS	#32997

LETTER OF SUPERVISION REQ: ☐ YES ☑ NO

PART 2: GENERAL CODE INFORMATION

2.1 BUILDING CODES USED IN DESIGN:

2018	INTERNATIONAL BUILDING CODE
2018	INTERNATIONAL FIRE CODE
2018	INTERNATIONAL MECHANICAL CODE
2018	INTERNATIONAL PLUMBING CODE
2020	NATIONAL ELECTRICAL CODE
2010	AMERICAN WITH DISABILITIES ACT

2.2 CONSTRUCTION DESCRIPTION:
☑ NEW CONSTRUCTION ☐ RENOVATION (EXIST. BLDG)
☐ TENANT BUILD-OUT ☐ ALTERATION ☐ ADDITION

BRIEF PROJECT DESCRIPTION AND SCOPE OF WORK:

Concession stand with men's and women's restrooms, h/low water fountain, electrical and communications room, janitor's and storage closet, and a concession area with hand washing sink, three compartment sink, fridges and ice maker.

PART 3: EXISTING CONDITIONS

3.1 EXISTING BUILDINGS
ARE THERE EXISTING BUILDINGS ON SITE? ☐ YES ☑ NO
WILL THE EXISTING BUILDING(S) REMAIN IN OPERATION DURING CONSTRUCTION? ☐ YES ☐ NO ☑ N/A

3.2 RENOVATIONS
IS THERE ANY RENOVATION WORK IN THE SCOPE OF THIS PROJECT? ☐ YES ☑ NO
IS THE WORK IN THIS BUILDING OR SPACE A CHANGE OF OCCUPANCY? ☐ YES ☑ NO

3.3 HISTORIC BUILDINGS
IF THERE IS AN EXISTING BUILDING, IS IT A HISTORIC BUILDING? ☐ YES ☑ NO

PART 4: BUILDING DATA

CONSTRUCTION TYPE: ☐ IA ☐ IB ☐ IIA ☐ IIB ☐ IIIA ☐ IIIB ☐ IV ☐ VA ☐ VB

MIXED CONSTRUCTION: ☑ NO ☐ YES _____ TYPES

FIRE SUPPRESSION SYSTEM: ☑ NO ☐ YES ☐ PARTIAL

FIRE SUPPRESSION SYSTEM NFPA SYSTEM TYPE: ☐ 13 ☐ 13R ☐ 13D ☐ 30 ☐ 30B

FIRE SUPPRESSION SYSTEM SUPPLY TYPE: ☐ WET ☐ DRY

STANDPIPES: ☑ NO ☐ YES

OVERALL BUILDING HEIGHT: 18 FEET 10 INCHES

NUMBER OF STORIES: 1 OR UNLIMITED PER _____

MEZZANINE ☑ NO ☐ YES

HIGH RISE: ☑ NO ☐ YES

ATRIUM: ☑ NO ☐ YES

BASEMENT: ☑ NO ☐ YES

PART 5: OCCUPANCY

5.1 OCCUPANCY CLASSIFICATION (CHAPTER 3)
☐ ASSEMBLY: ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
☑ BUSINESS
☐ EDUCATION
☐ FACTORY INDUSTRIAL: ☐ F-1 ☐ F-2
☐ HAZARDOUS: ☐ H-1 ☐ H-2 ☐ H-3 ☐ H-4 ☐ H-5
☐ INSTITUTIONAL: ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4 ☐ I-5
☐ MERCANTILE
☐ RESIDENTIAL: ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
☐ STORAGE: ☐ S-1 ☐ S-2 HIGH-PILED ☐ NO ☐ YES
☐ UTILITY AND MISCELLANEOUS
☐ PARKING GARAGE: ☐ OPEN ☐ CLOSED

OCCUPANCY DESCRIPTION:
BUSINESS (B) - CONSESSION STAND

HAZARDOUS MATERIAL STORAGE: ☑ NO ☐ YES
IF YES, HAZARDOUS MATERIAL DESCRIPTION:

5.2 MIXED OCCUPANCY
IS THIS BUILDING MIXED OCCUPANCY: ☑ NO ☐ YES ____ SEPARATION HOURS REQ.

5.3 MIXED OCCUPANCY EXCEPTIONS
NON-SEPARATED MIXED OCCUPANCY: ☐ NO ☐ YES ☑ N/A

SEPARATED MIXED OCCUPANCY: ☐ NO ☐ YES ☑ N/A

INCIDENTAL USE AREAS: ☐ NO ☐ YES ☑ N/A
ROOM(S) OR AREA(S):

ACCESSORY USE AREA(S): ☐ NO ☐ YES ☑ N/A
AREA: _____ SQ. FT. _____ SF | <10% OVERALL SF ☑ NO ☐ YES

5.4 SPECIAL OCCUPANCY: APPLICABLE: ☑ NO ☐ YES
☐ COVERED MALL BUILDING
☐ ATRIUMS
☐ MOTOR VEHICLE RELATED
☐ GROUP I-3
☐ STAGE AND PLATFORMS
☐ AIRCRAFT RELATED OCCUPANCIES
☐ HAZARDOUS MATERIALS
☐ APPLICATION OF FLAMMABLE FINISHES
☐ ORGANIC COATINGS
☐ TECHNICAL PRODUCTION AREAS
☐ HIGH RISE BUILDINGS
☐ UNDERGROUND VEHICLES
☐ GROUP I-2
☐ MOTION PICTURE PROJECTION
☐ SPECIAL AMUSEMENT BUILDINGS
☐ COMBUSTIBLE STORAGE
☐ GROUPS H1, H2, H3, H4, & H5
☐ DRYING ROOMS
☐ GROUP IA, R1, RS, & R3

PART 6: ALLOWABLE BUILDING AREA AND HEIGHT

6.1 ALLOWABLE AND ACTUAL BUILDING AREA
ALLOWABLE AREA(S):
BUSINESS : 9,000 SF NOT SPRINKLED
: SF
: SF
: N/A SF
ALLOWED AFTER MODIFICATIONS: N/A SF PER STORY

ACTUAL AREA(S):
BUSINESS : 960 SF
: SF
: SF
: SF
: SF
TOTAL 1ST FLOOR GSF: 960 GSF

UNLIMITED AREA: ☑ NO ☐ YES

If [F/P-0.25] W/30
If
If
If
If
W (L1xw1 + L2xw2 + L3xw3)/F
W
W
W
W
Aa {At + [At x If] + [At x Is] }
Aa
Aa
Aa

BUILDING AREA MODIFICATIONS: ☑ NO ☐ YES
FRONTAGE INCREASE: ☑ NO ☐ YES
SPRINKLER SYSTEM INCREASE: ☑ NO ☐ YES

6.2 ALLOWABLE AND ACTUAL BUILDING HEIGHT
ALLOWABLE HEIGHT: 40 FT
ALLOWABLE # OF STORIES: 2 STORIES
ACTUAL BUILDING HEIGHT: 18'10" FT
ACTUAL # OF STORIES: 1 STORIES

PART 7: OCCUPANT LOAD

SEE OCCUPANCY LOAD SCHEDULE AND OCCUPANCY CLASSIFICATION PLAN

PART 8: FIRE PROTECTION REQUIREMENTS

8.1 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

BUILDING ELEMENT	REQ'D RATING	UL NO.
STRUCTURAL FRAME:	N/A	N/A
BEARING WALLS:		
EXTERIOR	N/A	N/A
INTERIOR	N/A	N/A
NON-BEARING WALLS AND PARTITIONS:		
EXTERIOR	N/A	N/A
INTERIOR	N/A	N/A
FLOOR CONSTRUCTION:		
INCLUDING SUPPORTING BEAMS AND JOISTS	N/A	N/A
ROOF CONSTRUCTION:	N/A	N/A

RATINGS WERE REDUCES BY N/A HR DUE TO AN AUTOMATIC SPRINKLER SYSTEM:
☐ NO ☐ YES ☑ N/A

8.2 OTHER RATED ELEMENTS

BUILDING ELEMENT	REQ'D RATING	UL NO.
SHAFTS (EXIT)	N/A	N/A
SHAFTS (OTHER)	N/A	N/A
CORRIDOR SEPARATION	N/A	N/A
OCCUPANCY SEPARATION	N/A	N/A
PARTY/FIRE WALL SEPARATION	N/A	N/A
SMOKE BARRIER SEPARATION:	N/A	N/A
SPACES APPURTENANT TO STAIGE	N/A	N/A

RATINGS WERE REDUCED BY N/A HR DUE TO AN AUTOMATIC SPRINKLER SYSTEM:
☑ NO ☐ YES

8.3 DRAFTSTOPPING
DRAFTSTOPPING IN FLOOR ☑ NO ☐ YES ☑ N/A
DRAFTSTOPPING IN ATTIC ☐ NO ☐ YES ☑ N/A

8.4 DISTANCE TO PROPERTY LINE FROM EXTERIOR WALL
BUILDINGS ON THE SAME LOT: ☑ NO ☐ YES | IF YES: ☐ NEW ☐ EXISTING & NEW
FIRE SEPARATION DISTANCE: ☐ SEE THE FOLLOWING ☑ N/A

8.5 LIFE SAFETY SYSTEMS
AUTOMATIC SPRINKLER SYSTEM: ☐ NO ☐ YES ☑ N/A
MANUAL FIRE ALARM: ☐ NO ☐ YES ☑ N/A
SMOKE DETECTION SYSTEMS ☐ NO ☐ YES ☑ N/A
EXIT SIGNS: ☐ NO ☑ YES ☐ N/A
EMERGENCY LIGHTING: ☐ NO ☑ YES ☐ N/A
PANIC HARDWARE: ☐ NO ☐ YES ☑ N/A

PART 9: EXIT REQUIREMENTS

9.1 EXIT ACCESS
FIRST FLOOR: 2 EXITS REQUIRED 3 EXITS FURNISHED
DEAD END CORRIDORS: ☑ NO ☐ YES | IF YES. LENGTH: FT IN
50 FOOT AUTOMATIC SPRINKLER EXCEPTION USED: ☑ NO ☐ YES

9.2 MEANS OF EGRESS WIDTH
N/A INCHES MINIMUM CLEAR WIDTH FOR AISLES WITH SEATING ON BOTH SIDES
N/A INCHES MINIMUM CLEAR WIDTH FOR AISLES WITH SEATING ON ONE SIDE
6 INCHES TOTAL WIDTH OF EXITS REQUIRED
37 INCHES TOTAL WIDTH OF EXITS PROVIDED

9.3 DIAGONAL RULE
SEE LIFE SAFETY PLAN
1/3 AUTOMATIC SPRINKLER EXCEPTION USED: ☑ NO ☐ YES
PROTECTED CORRIDOR EXCEPTION USED: ☑ NO ☐ YES

9.4 TRAVEL DISTANCE:
ALLOWABLE TRAVEL DISTANCE: 200 FT FOR B
ACTUAL TRAVEL DISTANCE: SEE LIFE SAFETY PLAN

9.5 SPACES WITH ONE MEANS OF EGRESS
THIS BUILDING IS ALLOWED TO HAVE ONE MEANS OF EGRESS: ☑ NO ☐ YES
(IF YES, EXPLAIN) _____

9.6 EXTERIOR AREA FOR ASSISTED RESCUE
REQUIRED: ☑ NO ☐ YES (IF YES, COMPLETE THE FOLLOWING)
(A) IS IT OPEN TO THE OUTSIDE AIR: ☐ NO ☐ YES
(B) IS THE EXTERIOR WALL NON-RATED: ☐ NO ☐ YES
(C) DOES THE EXTERIOR WALL HAVE A 1 HR RATING: ☐ NO ☐ YES
(D) OPENINGS IN THE RATED WALL ARE 3/4 HR RATED: ☐ NO ☐ YES
(E) 1 HR RATED WALL EXTENDS 10 FEET HORIZONTALLY: ☐ NO ☐ YES
(F) 1 HR RATED WALL EXTENDS 10 FEET VERTICALLY: ☐ NO ☐ YES
IF ANY ANSWER FOR A-F IS NO, EXPLAIN.

EXTERIOR AREA FOR ASSISTED-RESCUE OPENINGS:
APPLICABLE ☑ NO ☐ YES (COMPLETE FOLLOWING)
(A) OPEN AT LEAST 50%: ☐ NO ☐ YES (IF NO, EXPLAIN)
(B) OPEN AREA MINIMIZES GATHERING OF SMOKE AND TOXIC GASSES: ☐ NO ☐ YES
(IF NO, EXPLAIN)

EXTERIOR AREA FOR ASSISTED RESCUE IDENTIFICATIONS:
APPLICABLE ☑ NO ☐ YES (COMPLETE FOLLOWING)
(A) SIGN PROVIDED TO THE AREA OF ASSISTED RESCUE: ☐ NO ☐ YES
(B) SIGN COMPLIES WITH CODE STATING AREA OF ASSISTED RESCUE: ☐ NO ☐ YES
(C) SIGN INCLUDES THE INTERNATIONAL SYMBOL OF ACCESSIBILITY: ☐ NO ☐ YES
(D) SIGN ILLUMINATED: ☐ NO ☐ YES
(E) TACTILE SIGNAGE: ☐ NO ☐ YES
(F) TACTILE SIGNAGE REQUIRED TO BE ILLUMINATED: ☐ NO ☐ YES

9.7 EXTERIOR EXIT STAIRWAY APPLICABLE: ☑ NO ☐ YES

EXTERIOR STAIR USED AS EGRESS FOR THE AREA OF ASSISTED RESCUE: ☐ NO ☐ YES (IF NO, EXPLAIN)

IF YES, IS THERE A CLEAR WIDTH OF 48" BETWEEN HANDRAILS: ☐ NO ☐ YES (IF NO, EXPLAIN)

PART 10: LIFE SAFETY PLAN

IS A LIFE SAFETY PLAN PROVIDED: ☐ NO ☑ YES (IF NO, EXPLAIN)

PART 11: ACCESSIBILITY

DESIGN CONFORMS TO ANSI STANDARD 117.1: ☐ NO ☑ YES (IF NO, EXPLAIN)

PART 12: PLUMBING SYSTEMS

OCCUPANCY CLASS: BUSINESS
OCCUPANCY CLASS LOAD: MALES (M) FEMALES (F) 0 TOTAL

	WATER CLOSET MALE	WATER CLOSET FEMALE	LAVATORIES MALE	LAVATORIES FEMALE	BATHTUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER
RATIO							
NUMBER OF FIXTURES	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N

OCCUPANCY CLASS:
OCCUPANCY CLASS LOAD: MALES (M) FEMALES (F) 0 TOTAL

	WATER CLOSET MALE	WATER CLOSET FEMALE	LAVATORIES MALE	LAVATORIES FEMALE	BATHTUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER
RATIO							
NUMBER OF FIXTURES	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N

OCCUPANCY CLASS:
OCCUPANCY CLASS LOAD: MALES (M) FEMALES (F) 0 TOTAL

	WATER CLOSET MALE	WATER CLOSET FEMALE	LAVATORIES MALE	LAVATORIES FEMALE	BATHTUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER
RATIO							
NUMBER OF FIXTURES	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N

OCCUPANCY CLASS:
OCCUPANCY CLASS LOAD: MALES (M) FEMALES (F) 0 TOTAL

	WATER CLOSET MALE	WATER CLOSET FEMALE	LAVATORIES MALE	LAVATORIES FEMALE	BATHTUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER
RATIO							
NUMBER OF FIXTURES	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N	RQ. / PR. / E / N

TOTAL	WATER CLOSET MALE	WATER CLOSET FEMALE	LAVATORIES MALE	LAVATORIES FEMALE	BATHTUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER
EX.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RQ.	0	0	0	0	0	0	0

RQ. : REQUIRED
PR. : PROVIDED
E. : EXISTING
N. : NEW
EX. : EXACT
RD. : ROUNDED

IBC/IPC Plumbing Fixture Requirements

Edition: 2018

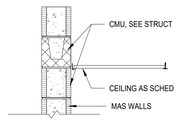
Occupancy	Description	Occupant Load / Number of Units or Rooms	Male Water Closets Ratio	Male Water Closets Required	Female Water Closets Ratio	Female Water Closets Required	Male Lavatories Ratio	Male Lavatories Required	Female Lavatories Ratio	Female Lavatories Required	Drinking Fountains Ratio	Drinking Fountains Required
Business	Buildings for the transaction of business, professiona	4	1 per 25 for the first 50 then 1 per 50	0.08	1 per 25 for the first 50 then	0.08	1 per 40 for the first 80 then	0.05	1 per 40 for the first 80 then	0.05	1 per 100	0.04
-	-		-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-
Totals		4	Exact	0.08		0.08		0.05		0.05		0.04
			Rounded	1		1		1		1		1

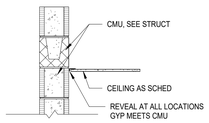
OCCUPANCY LOAD SCHEDULE

RM #	RM NAME	OCCUPANCY TYPE	AREA	OCCUPANCY FACTOR	OCCUPANT LOAD	EGRESS WIDTH NON-SP
101	CONCESSIONS	BUSINESS	327 SF	150	2	0' - 0"
102	STORAGE / JANITOR	BUSINESS	74 SF	150	0	0' - 0"
103	ELECT / COMM	BUSINESS	75 SF	150	0	0' - 0"
104	MEN RR	BUSINESS	127 SF	150	1	0' - 0"
105	WOMEN RR	BUSINESS	149 SF	150	1	0' - 0"
Grand total: 5					4	0' - 1"

PARTITION TYPES

TYPE MARK	TYPE IMAGE	DESCRIPTION	WIDTH	REMARKS
		3-5/8" MTL STUD @ 16" OC, 5/8" GYP ONE SIDE, TO DECK	0' - 9"	
C2-D		6" CONCRETE MASONRY UNIT, TO DECK, REF. TO STRUCT.	0' - 6"	





1 / LS100 STANDARD CEILING TO WALL DETAILS
3/4" = 1'-0"

PARTITION TYPES GENERAL NOTES

1. SEE ARCHITECTURAL FLOOR PLANS FOR WALL PARTITION TYPE LOCATIONS.
2. PARTITION TYPES ARE INTENDED TO DESCRIBE BASIC MATERIALS & ASSEMBLIES. FURR OUTS, FURR DOWNS, AND OTHER DESIGN FEATURES ARE DESCRIBED ON OTHER SHEETS IN CONSTRUCTION DOCUMENTS.
3. FINAL PARTITION FINISHES ARE NOT INCLUDED ON PARTITION TYPES. SEE ROOM FINISH SCHEDULE FOR FINISHES.
4. PARTITION TYPES DO NOT ACCOUNT FOR LOAD BEARING VERSUS NON-LOAD BEARING LOCATIONS. SEE STRUCTURAL TO DETERMINE LOAD BEARING PARTITION LOCATIONS. CONSTRUCTION OF LOAD BEARING PARTITIONS SHALL BE MODIFIED FROM THESE PARTITION TYPES AS REQUIRED TO ACCOMMODATE DETAILING SHOWN ON STRUCTURAL SHEETS.
5. ALL WALLS SCHEDULED TO RECEIVE WALL TILE (IF SCHEDULED) SHALL HAVE TILE BACKER BOARD. GLUE & SCREW TO CMU WALL WHERE APPLICABLE, TYP. SEE FINISH ROOM FINISH SCHEDULE FOR ROOM FINISHES AND WALL TILE TYPES.
6. PROVIDE HORIZONTAL BRACING WITHIN INTERIOR WALLS AT INTERVALS OF 1/3: X (X= OVERALL WALL HEIGHT) OR EVERY 4'-0" VERTICALLY.

PARTITION TYPES REMARKS

A. DOUBLE LAYER OF GYP BD ON STC ASSEMBLY SHALL FALL AT THE 'PUBLIC' UNSECURED SIDE OF EACH ASSEMBLY TIME. WHERE AN STC ASSEMBLY OCCURS BETWEEN 2 PROTECTED OFFICES, LOCATION OF DOUBLE LAYER DOES NOT MATTER.

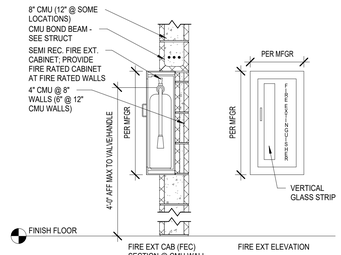
B. COMPLY WITH ALL APPLICATE INSTALLATION GUIDELINES IN ACCORDANCE WITH ASSEMBLY UL RATING REQUIREMENTS.

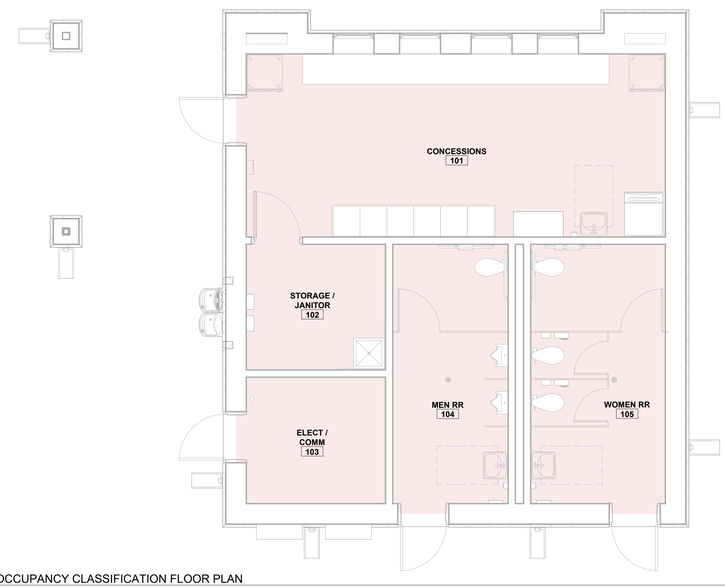
LIFE SAFETY GENERAL NOTES

1. SEE ELECTRICAL FOR ALL EMERGENCY LIGHT FIXTURES, FIRE ALARM AND SMOKE DETECTION.
2. SEE FLOOR PLANS FOR WALL PARTITION LOCATIONS.
3. FEC AND FE LOCATIONS ARE LOCATED TO COMPLY WITH CODES AND STANDARDS. VERIFY WITH ARCHITECT BEFORE RELOCATING FEC'S.
4. 0.5 HOUR RATED CEILINGS AT CORRIDORS AND SLEEPING UNITS SHALL BE CONSTRUCTED OF 6" METAL STUDS @ 16" OC WITH FIRE RATED GYP BOARD (TOP AND BOTTOM OF JOIST). ALL PENETRATIONS THRU THIS CEILING ASSEMBLY SHALL BE FIRE CAULKED AND DAMPERS SHALL BE PROVIDED AS REQUIRED. COORDINATE WITH MECHANICAL, PLUMBING AND ELECTRICAL. REFERENCE LIFE SAFETY SHEETS FOR ADDITIONAL INFORMATION.
5. SEE MECHANICAL FOR FIRE/SMOKE DAMPERS.

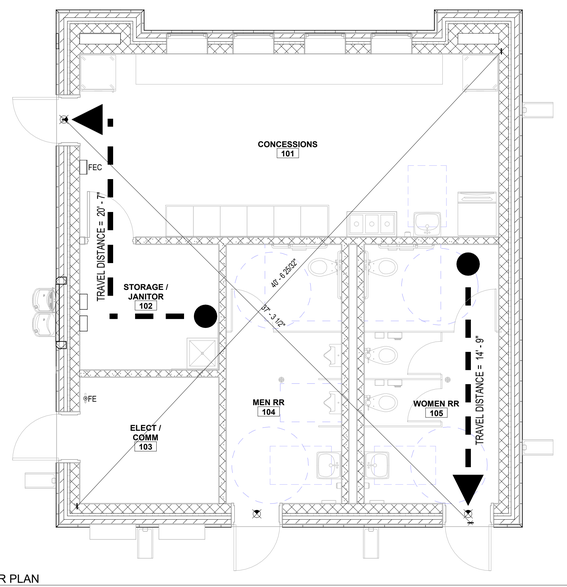
LIFE SAFETY PLAN LEGEND

- EGRESS ROUTES
- FE — WALL MOUNT FIRE EXTINGUISHERS (FE)
- FEC — SEMI RECESSED FIRE EXTINGUISHER CABINET & FE
- EXIT SIGN - SEE ELEC FOR FULL EXTENTS





2 / LS100 OCCUPANCY CLASSIFICATION FLOOR PLAN
1/4" = 1'-0"



3 / LS100 LIFE SAFETY FLOOR PLAN
1/4" = 1'-0"

MP DESIGN GROUP
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REGISTERED ARCHITECT VANESSA HEMENWAY 10194 STATE OF MISSISSIPPI

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS INDICATED
PROJECT NO: 0323.25.002
DRAWN BY: CG
CHECKED BY: VJH

CODE STUDY, LIFE SAFETY PLAN, OCCUPANCY CLASSIFICATION PLAN, PARTITION TYPES, & NOTES

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION

LS100

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

11/10/2025 9:47:46 AM

SITE DEMOLITION NOTES

1. THE CONTRACTOR SHALL CALL MISSISSIPPI ONE CALL (1-800-227-6477) BY LAW TO LOCATE ALL EXISTING UTILITIES ON SITE PRIOR TO THE START OF HIS WORK.
2. CONTRACTOR SHALL MAINTAIN EROSION AND SEDIMENT CONTROLS DURING THE ENTIRE COURSE OF WORK AS DETAILED ON THE STORM WATER POLLUTION PREVENTION PLANS. AND IN ACCORDANCE WITH THE STATE STORM WATER POLLUTION PREVENTION REQUIREMENTS.
3. ALL MATERIALS TO BE DEMOLISHED SHALL BE RECYCLED OR SALVAGED ACCORDING TO THE CONTRACTOR'S WASTE MANAGEMENT PLAN. ALL OTHER MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF OFF SITE IN A LEGAL LANDFILL. CONTRACTOR IS NOT ALLOWED TO STOCKPILE NON-RECYCLED OR NON-SALVAGED DEMOLITION MATERIALS ON SITE. ALL MATERIALS SHALL BE REMOVED IN A TIMELY FASHION.
4. WITHIN THE LIMITS OF WORK AND THE VICINITY OF CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY FENCING AROUND TREES TO REMAIN AND PROTECT SAID TREES DURING CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE ASSOCIATED UTILITY COMPANY AND COORDINATING ANY REQUIRED DISCONNECTS AND/OR CONNECTIONS TO EXISTING UTILITIES.
6. FINAL SITE CLEARING – THE SITE SHALL BE CLEAR OF ALL DEBRIS, DEMOLITION RELATED AND NON-RELATED (SITE TRASH).

SURVEY LEGEND

● IRF	DENOTES IRON ROD FOUND
◉ IPF	DENOTES IRON PIPE FOUND
○ IRS	DENOTES IRON ROD SET
✕ CMF	DENOTES CONCRETE MONUMENT FOUND
(MEAS)	DENOTES MEASURED THIS SURVEY
(DEED)	DENOTES PER RECORDED DEED
	DENOTES TRAFFIC SIGN
MB	DENOTES MAILBOX
	DENOTES WATER VALVE
W	DENOTES WATER METER
	DENOTES FIRE HYDRANT
	DENOTES SANITARY SEWER CLEANOUT
S	DENOTES SANITARY SEWER MANHOLE
	DENOTES UTILITY POLE
	DENOTES UTILITY POLE GUY WIRE
FO	DENOTES FIBER OPTIC JUNCTION BOX
G	DENOTES GAS VALVE
ohe	DENOTES OVERHEAD POWER LINE
fo	DENOTES FIBER OPTIC LINE
w	DENOTES WATER LINE
ss	DENOTES GRAVITY SEWER LINE
g	DENOTES GAS LINE

STORMWATER POLLUTION PREVENTION NOTES

1. STOCKPILE TOPSOIL REMOVED FROM ROADWAY AREAS FOR USE LATER IN PLANTING PERMANENT GRASS ON ALL DISTURBED AREAS NOT USED AS PAVED ROADS, BUILDINGS ETC. CONTRACTOR SHALL PERFORM STOCKPILE PROTECTION AS REQUIRED TO PREVENT EROSION AND LOOSE DIRT FROM BEING WASHED FROM THE STOCKPILE.
2. CONTRACTOR SHALL STAGE, TIME AND SEQUENCE CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINISHING THE SOIL AREA.
3. AS SOON AS GRADING IS COMPLETE IN AN AREA, THE CONTRACTOR SHALL STABILIZE THE SOIL. FOR LONG, NARROW AREAS OR STEEP GRADES (GREATER THAN 3:1), THE CONTRACTOR SHALL STABILIZE CONTINUOUSLY DURING GRADING OPERATIONS. ROUGH GRADED AREAS SHOULD BE STABILIZED WITH TEMPORARY EROSION CONTROL IF FINAL GRADING AND STABILIZATION WILL NOT BE PERFORMED WITHIN FIVE (5) DAYS. FAILURE TO STABILIZE IN A TIMELY MANNER AFTER GRADING MAY BE CONSIDERED A VIOLATION OF PERMITS OBTAINED FOR SAID ACTIVITY AND MAY BE SUBJECT TO CORRECTIVE ACTION BY THE LOCAL, STATE OR FEDERAL GOVERNING AUTHORITY.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL UNLESS ANOTHER PARTY HAS BEEN PREVIOUSLY SPECIFIED AS RESPONSIBLE FOR THE EROSION CONTROL ASSOCIATED WITH THAT TASK. IN THE EVENT ANOTHER PARTY IS RESPONSIBLE FOR EROSION CONTROL, THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR COORDINATION WITH THE PARTY RESPONSIBLE. IN THE EVENT THAT DAMAGE TO THE CONSTRUCTED ITEM RESULTS DUE TO LACK OF EROSION CONTROL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF SAID EROSION CONTROL ITEMS AT NO CHARGE TO THE OWNER.
5. TEMPORARY EROSION CONTROL SHALL CONSIST OF TEMPORARY GRASS, TEMPORARY MULCH, TEMPORARY SOD, ARTIFICIAL COVERINGS, BALED HAY OR STRAW, SILT FENCES AND TURBIDITY BARRIERS AS SHOWN ON THE CONSTRUCTION DRAWINGS AND IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES MANUAL FROM THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY, LATEST EDITION.
6. PERMANENT EROSION CONTROL SHALL CONSIST OF SEED, SEED AND MULCH, HYDRO-SEEDING, SOD AND/OR ARTIFICIAL COVERINGS AS SHOWN ON THE CONSTRUCTION PLANS AND IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES MANUAL FROM THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY, LATEST EDITION.
7. TEMPORARY EROSION CONTROL BY ARTIFICIAL COVERINGS SHALL CONSIST OF STRAW BLANKETS, COCONUT FIBER BLANKETS, POLYESTER BLANKETS, JUTE MESH AND DRAINAGE FABRICS. MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEEDING SHALL BE INCLUDED IF MATERIAL REQUIRES VEGETATION TO FUNCTION PROPERLY.
8. THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES, SILT FENCE, TURBIDITY BARRIER OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS AND WETLAND OR JURISDICTIONAL AREAS. IF, IN THE OPINION OF THE ENGINEER AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFF-SITE BY EROSION OR STORMWATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR LOCAL, STATE OR FEDERAL GOVERNING AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER. IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER.
9. PLACE STONE CHECK DAM IN ALL NATURAL OR CREATED DRAINAGEWAYS WHERE PIPES DISCHARGE WATER TO TRAP SEDIMENT ON SITE AND DO NOT ALLOW IT TO GO ONTO ADJACENT PROPERTY. ALL SEDIMENT AND EROSION CONTROL STRUCTURES SHALL BE INSTALLED BY A METHOD ACCEPTABLE TO THE ENGINEER AND/OR TO THE LOCAL, STATE OR FEDERAL GOVERNING AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER.
10. SEED ALL SWALES AND DITCHES TO SOME TYPE OF PERMANENT GRASS WHERE SLOPE OF LAND DOES NOT EXCEED 2%.
11. ALL SEDIMENT AND EROSION CONTROL STRUCTURES, INCLUDING BASINS, GRAVEL FILTERS, SILT FENCE AND TRAPS SHALL BE INSPECTED EVERY 7 DAYS AND AFTER ALL RAINFALLS IN EXCESS OF 0.5". AN INSPECTION REPORT SHALL BE MADE ON EACH OCCASION, NOTING CONDITION OF ALL STRUCTURES AND OUTLINING ANY REQUIRED MAINTENANCE. ALL STRUCTURES SHALL BE CLEANED AND REESTABLISHED WHEN SEDIMENT REACHES 50% STORAGE CAPACITY.
12. THE CONTRACTOR SHALL BE FAMILIAR WITH, AND KNOWLEDGEABLE OF, ALL FEDERAL, STATE, AND LOCAL CODES, REQUIREMENTS, REGULATIONS AND SPECIFICATIONS REGARDING THE CONSTRUCTION OF THIS PROJECT. ALL MATERIALS, WORKMANSHIP, INSTALLATION AND RESTORATION SHALL MEET OR EXCEED MINIMUM REQUIREMENTS. LACK OF DETAILS ON THE PLANS OR ABSENCE OF SPECIFIC INFORMATION SHALL NOT RELIEVE THE CONTRACTOR OF COMPLYING WITH ALL APPLICABLE CODES, REQUIREMENTS AND SPECIFICATIONS.
13. PROVIDE A TEMPORARY STONE SPLASH PAD AT ALL FIRE HYDRANTS OR OTHER POINTS OF DISCHARGE DURING TESTING OF THE WATER DISTRIBUTION SYSTEM.
14. CUT OR FILL SLOPES WHICH EXCEED (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED DAILY UNTIL THE SLOPE IS BROUGHT TO GRADE.
15. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED. ANY ADDITIONAL TEMPORARY CONTROL DEVICES THAT MAY BE REQUIRED SHALL BE PROVIDED AS PART OF THIS PROJECT AT NO ADDITIONAL COST TO THE OWNER.
16. THE PROPOSED WORK ITEMS SHOWN ON THESE PLANS DOES NOT RELIEVE THE CONTRACTOR OF ENSURING THAT ALL LOCAL, STATE AND FEDERAL REQUIREMENTS FOR STORM WATER POLLUTION PREVENTION, WATER QUALITY AND ILLEGAL POINT SOURCE DISCHARGE ARE STRICTLY ADHERED TO. ANY AND ALL ACTION NECESSARY TO BE IN COMPLIANCE WITH ALL REGULATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

SEQUENCING OF SITE WORK AND RELATED EROSION CONTROL DEVICES

THE CONSTRUCTION PHASE SHOULD BE DIVIDED INTO THREE PHASES OF BEST MANAGEMENT PRACTICES IMPLEMENTATION (BMP). THE FOLLOWING IS A SUGGESTED PHASING PROCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE CONSTRUCTION PLANS, MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY BEST MANAGEMENT PRACTICES MANUAL, LATEST EDITION AND ANY OTHER INFORMATION THAT MAY BE RELEVANT TO THE IMPLEMENTATION AND PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN BEST SUITED FOR THIS PROJECT:

PHASE I: START UP AND PERIMETER CONTROLS

- CONTRACTOR SHALL POST ALL SITE AND STORMWATER CONTROL PERMITS AS REQUIRED BY EACH INDIVIDUAL PERMIT.
- CONTRACTOR SHALL INSTALL PERIMETER CONTROLS. PREFERABLY, THESE SHOULD BE INSTALLED AFTER CLEARING AND PRIOR TO ANY GRUBBING OF THE SITE. FOR LARGER AREAS, CLEARING OF AN AREA THE WIDTH OF A BULLDOZER AND INSTALLING THE PERIMETER CONTROLS SHOULD BE PERFORMED PRIOR TO CLEARING THE INTERIOR PORTIONS OF THE SITE.
- HOLD PRE-CONSTRUCTION CONFERENCE AT LEAST ONE (1) WEEK PRIOR TO STARTING CONSTRUCTION AND PERFORM WEEKLY REVIEWS OF THE EROSION SEDIMENT AND STORMWATER CONTROL PLAN.
- REMOVE VEGETATION, UNDERGROWTH AND TOP SIX (6) INCHES OF ORGANIC MATERIAL FROM THE SITE AND STOCKPILE TOPSOIL. CONTRACTOR SHALL PERFORM STOCKPILE PROTECTION AS REQUIRED TO PREVENT LOOSE DIRT FROM BEING WASHED FROM THE STOCKPILE.
- PLACE TEMPORARY SANITARY FACILITIES AND DUMPSTERS.

PHASE II: INTERMEDIATE CONTROLS

- INTERMEDIATE CONTROLS ARE IMPLEMENTED FROM GRUBBING TO FINAL GRADE. THIS INCLUDES INSTALLATION OF SUBSURFACE DRAINAGE, INLETS AND UTILITIES AND BRINGING THE SITE TO FINAL GRADE. DURING THIS PHASE, THE EXTENT AND DURATION OF EXPOSURE OF UN-STABILIZED AREAS IS GREATEST. THE CONTRACTOR SHALL TAKE ANY ADDITIONAL MEASURES REQUIRED TO PREVENT ADDITIONAL STORMWATER OR SEDIMENTATION RUNOFF AT NO ADDITIONAL COST TO THE OWNER.

PHASE III: FINAL CONTROLS

- THESE CONTROLS ARE IMPLEMENTED TO ACHIEVE FINAL STABILIZATION OF THE SITE. THE CONSTRUCTION OF HARD SURFACES AND FINAL PAVEMENT, STRUCTURES AND UTILITIES ARE INSTALLED. THIS PHASE ESTABLISHES THE PERMANENT VEGETATION, RETENTION/DETENTION PONDS FACILITIES AND THE INSTALLATION OF ANY OUTLET PROTECTIONS, ENERGY DISSIPATERS ROCK CHECK DAMS, ETC. AT FINAL STABILIZATION, USEPA (1992) GUIDELINES STATES THAT PERMANENT VEGETATION MUST BE UNIFORMLY ESTABLISHED ON AT LEAST 70 PERCENT OF SOIL SURFACES NOT COVERED WITH EROSION-RESISTANT SURFACES (PAVEMENTS, BUILDINGS, ETC.). ALL PERMANENT DRAINAGE IMPROVEMENTS MUST BE INSTALLED AND TESTED TO VERIFY THAT THEY PERFORM AS DESIGNED. THE STORMWATER MANAGEMENT SYSTEM SHOULD BE CHECKED AND CLEANED OF ANY ACCUMULATED SEDIMENTS. TEMPORARY BMP'S NOT REQUIRED AS PART OF THE PERMANENT STABILIZATION OR BMP PLAN SHALL BE REMOVED AND PROPERLY DISPOSED OF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY AND ALL SEDIMENT, DEBRIS, ETC., FROM THE STORMWATER INLETS, PIPE SYSTEMS, RETENTION/DETENTION PONDS, ETC. AS MAY BE REQUIRED TO CREATE A FULLY FUNCTIONAL STORMWATER MANAGEMENT SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

OTHER POLLUTION SOURCES CONTROL NOTES

1. MAINTENANCE AND REPAIR OF CONSTRUCTION EQUIPMENT SHALL BE CONFINED TO ONE AREA – LOCATED ON A LEVEL AREA, AS FAR FROM CREEKS AND WETLANDS AREAS AS POSSIBLE. STORAGE CONTAINERS AND WASTE DISPOSAL RECEPTACLES SHALL BE PROVIDED AT THIS AREA FOR OILS, FUELS, GREASE, SOLVENTS, ETC., THAT ARE USED ON THE SITE. THE MAINTENANCE AREA SHALL BE INSPECTED AND CLEANED DAILY. DISPOSAL RECEPTACLES SHALL BE EMPTIED WEEKLY, PROPERLY AND IN A LEGAL MANNER.
2. ANY FUEL STORAGE TANKS KEPT ON THE SITE SHALL BE PROVIDED WITH SECONDARY CONTAINMENT; THIS SHALL CONSIST OF A PAN UNDER THE TANK, LINED CONTAINMENT AREA WITH BERMS OR CONCRETE CONTAINMENT AREA, TO CONTAIN ANY LEAKAGE OR SPILLAGE WHICH MAY OCCUR FROM THE TANK DURING USE AND NON-USE TIMES.
3. TRASH RECEPTACLES AND OTHER WASTE-HOLDING FACILITIES SHALL BE UTILIZED AT ONE OR TWO LOCATIONS ON THE PROJECT SITE TO CONTAIN WASTES AND PREVENT ITS MOVEMENT DOWN-GRADE OR OFFSITE. THESE FACILITIES SHALL BE EMPTIED AND WASTE DISPOSED OF ON A WEEKLY BASIS, OR MORE OFTEN AS NEEDED.
4. THE CONTRACTOR SHALL TAKE NECESSARY ACTION AS REQUIRED TO MINIMIZE THE TRACKING OF MUD/SOIL ONTO THE PAVED ROADWAY FROM THE CONSTRUCTION AREA. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
5. WASHING OF CONSTRUCTION VEHICLES ON THE SITE WILL NOT BE ALLOWED. VEHICLES SHALL BE TRANSPORTED TO THE CONTRACTOR'S YARD AND WASHED AS NEEDED.
6. THE STORAGE OF ALL HAZARDOUS MATERIALS, FERTILIZERS, CHEMICALS, CEMENTS, SOLVENTS, PAINTS, OR OTHER POTENTIAL WATER POLLUTANTS SHALL BE LOCATED IN AN ISOLATED, LEVEL AREA, FAR FROM CREEK/WETLAND AREAS, WHERE THEY WILL NOT CAUSE POLLUTION DUE TO RUNOFF FROM THEM DURING RAINFALL EVENTS AND SHALL BE STORED IN A HAZMAT APPROVED FACILITY. ALL MSDS SHEETS FOR EACH HAZARDOUS MATERIAL SHALL BE KEPT IN THE HAZMAT STORAGE FACILITY AND A COPY OF THE MSDS SHEET SHALL BE KEPT IN THE GENERAL CONTRACTOR'S OFFICE. TOXIC CHEMICALS AND MATERIALS, SUCH AS PESTICIDES, PAINTS AND ACIDS, SHALL BE STORED ACCORDING TO THE MANUFACTURER'S GUIDELINES. CARE SHALL BE TAKEN TO PREVENT ACCIDENTAL SPILLAGE DURING USE OF THE MATERIALS. CONTAINERS SHALL NOT BE WASHED IN OR NEAR FLOWING STREAMS OR STORMWATER HANDLING SYSTEMS (INLETS, DITCHES, PONDS, ETC.).
7. ADEQUATE SANITARY FACILITIES SHALL BE PROVIDED FOR WORKERS ON THE SITE IN ACCORDANCE WITH HEALTH DEPARTMENT REGULATIONS. THESE FACILITIES SHALL BE REGULARLY EMPTIED AND MAINTAINED AND PLACED AWAY FROM CREEKS/WETLANDS AS FAR AS POSSIBLE AND ANCHORED TO PREVENT OVERTURNING, AS NEEDED.
8. CONTRACTOR SHALL PERFORM A DAILY WALK THRU OF THE PROJECT SITE TO PICK UP ANY LOOSE DEBRIS, LITTER OR TRASH AND DISPOSE OF ALL ITEMS IN THE WASTE RECEPTACLES SHOWN.

GENERAL NOTES

1. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH TWO SETS OF "AS-BUILT" DRAWINGS PRIOR TO REQUESTING A FINAL INSPECTION. THE "AS-BUILT" DRAWINGS SHALL SHOW THE LOCATIONS OF ALL SEWER AND WATER STRUCTURES, LINES, BENDS, AND APPURTENANCES. GRADES ON STORM SEWER LINES SHALL ALSO BE FURNISHED ON "AS-BUILT" DRAWINGS.
2. INSTALLATION OF ANY GRAVITY FLOW PIPE, SUCH AS SANITARY SEWER OR STORM DRAIN, SHALL REQUIRE THAT THE CONTRACTOR START AT THE LOWEST CONNECTION POINT ELEVATION, AND WORK IN THE UPHILL DIRECTION. IF, IN THE BEST INTEREST OF THE PROJECT, THE CONTRACTOR WISHES TO INITIATE PIPE LAYING AT SOME LOCATION OTHER THAN THE LOWEST CONTROL, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM A SATISFACTORY CONNECTION TO THE LOWEST CONTROL, PRIOR TO BEGINNING CONSTRUCTION AT SOME POINT OTHER THAN THE LOWEST CONTROL ELEVATION, THE CONTRACTOR SHALL REQUEST, IN WRITING, AND RECEIVE, IN WRITING, APPROVAL FROM THE DESIGN ENGINEER, WHOSE NAME APPEARS ON THESE PLANS. SANITARY SEWER MAINS OR SERVICES WITH LESS THAN THREE FEET OF COVER SHALL BE DUCTILE IRON PIPE. WHEREVER A SANITARY SEWER SERVICE CROSSES OVER OR UNDER A STORM DRAIN PIPE AND/OR A WATER MAIN, THE SERVICE SHALL BE EXTENDED A MINIMUM OF FIVE FEET BEYOND THE FURTHEST PIPELINE. IN NO CASE, WITHOUT THE ENGINEER'S WRITTEN APPROVAL, SHALL THE CONTRACTOR TERMINATE THE SANITARY SEWER SERVICE AT A LOCATION THAT WOULD REQUIRE THE BUILDING PLUMBER TO CROSS THE STORM DRAIN PIPE AND/OR WATER MAIN.

SITE NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS FOR THIS PROJECT PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR DEMOLITION.
2. CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION TO PREVENT DAMAGE TO ALL TREE ROOTS DURING ENTRENCHING AND ANY OTHER CONSTRUCTION THAT MAY ENDANGER THE HEALTH OF THE TREES ACCORDING TO THE LOCAL MUNICIPALITIES REQUIREMENTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ANY AND ALL UTILITY COMPANIES IN REGARDS TO UTILITIES THAT MAY NEED TO BE RELOCATED AS PART OF THIS WORK.
4. CONTRACTOR SHALL PROVIDE PROPER TRAFFIC CONTROL WARNING SIGNS THROUGH THE DURATION OF THE PROJECT. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), LATEST EDITION.
5. CONTRACTOR SHALL NOTIFY ALL AGENCIES AT LEAST SEVENTY-TWO (72) HOURS IN ADVANCE OF ANY ROAD CLOSINGS. THIS NOTIFICATION SHALL INCLUDE, BUT NOT BE LIMITED TO, POLICE, FIRE AND SCHOOL ALONG WITH ALL REGULATORY AND GOVERNMENTAL AGENCIES.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PUBLIC NOTICE OF EACH ROAD CLOSING. CONTRACTOR SHALL FOLLOW ALL GUIDELINES FOR PUBLIC NOTICE AS ESTABLISHED BY CITY, COUNTY AND/OR STATE OFFICIALS. ANY DELAY IN CONSTRUCTION DUE TO CONTRACTOR NOT NOTIFYING THE PROPER AUTHORITIES OR NOT FOLLOWING THE REGULATORY AGENCY REQUIREMENTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
7. IF TRAFFIC INTERRUPTIONS ARE REQUIRED, THEY SHALL BE KEPT TO A MINIMUM AND THE CONTRACTOR SHALL BE SUBJECT TO LOCAL LAWS IN REGARDS TO TRAFFIC INTERRUPTIONS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF TREES SHOWN TO REMAIN. CONTRACTOR SHALL PROTECT TREES AS REQUIRED BY THE LOCAL MUNICIPALITIES TREE ORDINANCE AND/OR LAND DEVELOPMENT CODE.
9. ALL PERVIOUS AREAS DISTURBED DURING CONSTRUCTION SHALL RECEIVE NEW SOD OR SHALL BE SEEDED OR MULCHED. MINIMUM, AFTER COMPLETION AND APPROVAL OF WORK IN THAT AREA.
10. CONTRACTOR SHALL INSTALL HANDICAP PARKING, SYMBOLS AND RAMPS PER A.D.A. REQUIREMENTS.
11. CONTRACTOR SHALL STRIPE ALL HANDICAP PARKING SPACES BLUE. ALL OTHER STRIPING SHALL BE WHITE.
12. ANY EXISTING SITE DEBRIS AND/OR EXISTING STRUCTURES SHALL BE COMPLETELY REMOVED PRIOR TO CONSTRUCTION AS PER DEMOLITION PLAN.

SITE LAYOUT NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AS SHOWN ON THE PLANS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
2. EXTREME CARE HAS BEEN TAKEN IN DETERMINING LAYOUT DIMENSIONS. CONTRACTOR SHALL ONLY SCALE AREAS IN WHICH NO DIMENSION IS SHOWN. CONTRACTOR SHALL VERIFY SCALE AND CONTACT ENGINEER IF ANY DISCREPANCIES OCCUR. IN NO CASE SHALL CONTRACTOR SCALE THE DRAWING TO OVERRIDE A SHOWN DIMENSION.
3. CONTRACTOR SHALL CONSULT AND VERIFY ALL BUILDING DIMENSIONS WITH THE BUILDING PLANS AND THE FOUNDATION PLANS. IF ANY DISCREPANCIES ARISE, THE BUILDING PLANS AND/OR THE FOUNDATION PLAN OVERRIDE ANY DIMENSIONS ON THIS PLAN. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ENGINEER IF ANY SAID DISCREPANCIES MAY AFFECT THE LAYOUT OF THE SITE PLAN.

SITE GRADING & DRAINAGE NOTES

1. EXISTING CONTOUR INTERVALS SHOWN ARE ONE FOOT (1').
2. PROPOSED CONTOUR INTERVALS SHOWN ARE ONE FOOT (1').
3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, ETC., AND ALL UTILITIES PRIOR TO CONSTRUCTION.
5. CLEARING AND GRUBBING LIMITS SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UNDISTURBED AREAS, ALL PROPERTY CORNERS AND REPLACING ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL LOCAL GOVERNING CODES AND SHALL COMPLY WITH SAID CODES.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN THE EXISTING CONDITIONS.

UTILITY NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL PROJECT RELATED UTILITIES, BURIED AND ABOVE GROUND, REGARDLESS OF INCLUSION ON THESE PLANS. THE LOCATIONS OF ANY EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ALL CONTRACTOR DAMAGED UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
2. SITE CONTRACTOR SHALL BE RESPONSIBLE FOR STUB OUT OF ALL UTILITIES TO WITHIN 5' OF THE BUILDING. SITE CONTRACTOR SHALL COORDINATE LOCATION AND STUB OUT REQUIREMENTS PER ARCHITECTURAL/PLUMBING/ELECTRICAL, ETC. PRIOR TO COMMENCEMENT OF CONSTRUCTION. TIE IN LOCATIONS WERE SHOWN AS PER SURVEY OR LOCATED/PROVIDED BY LOCAL UTILITY AUTHORITY AND EXACT LOCATIONS HAVE NOT BEEN VERIFIED. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL UTILITY DEPARTMENT TO VERIFY LOCATION OF SEWER AND WATER CONNECTIONS.
3. CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION HAVING POTENTIAL IMPACT TO THE UTILITY'S STRUCTURE.
4. WATER SERVICE SHALL BE MAINTAINED TO ALL EXISTING CUSTOMERS; IF ANY SERVICE MUST BE INTERRUPTED, THE AFFECTED CUSTOMERS SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE BY THE CONTRACTOR.
5. CONTRACTOR SHALL PROVIDE A MINIMUM COVER OF 36", MINIMUM, ON ALL WATER MAINS.
6. NEW WATER MAIN SHALL MAINTAIN 18" VERTICAL SEPARATION BETWEEN WATER MAIN AND STORM DRAIN PIPES, WHERE CROSSINGS OCCUR. WATER MAIN SHALL BE ROUTED OVER STORM PIPE WHEREVER POSSIBLE.
7. ALL WATER LINE FITTINGS 4 INCHES IN DIAMETER AND LESS SHALL BE OF THE SAME MATERIAL AS THE PIPE (i.e., PVC) AND SHALL BE CONSISTENT THEREWITH IN STRENGTH, DIMENSIONS AND FUNCTION.
8. CONTRACTOR SHALL INSTALL THRUST BLOCKS AT ALL BENDS AND FITTINGS (SEE DETAIL SHEET).
9. CONTRACTOR SHALL INSTALL LOCATOR WIRE AROUND ALL NEW INSTALLED PIPE AND FITTINGS.
10. ALL PROPOSED POTABLE WATER LINE FITTINGS, FIRE HYDRANTS AND ALL OTHER WATER LINE PIPING MATERIALS AND FITTINGS FOR THIS PROJECT SHALL BE AWWA APPROVED.
11. CONTRACTOR SHALL INSTALL ALL WATER LINES AND FITTINGS AS PER MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
12. EXISTING WATER AND SANITARY SERVICE LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THESE LINES LOCATED AND COORDINATE TIE IN LOCATIONS WITH THE BUILDING CONTRACTOR.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING BUILDING SANITARY SEWER PIPE ELEVATION AND DETERMINE THE ELEVATION REQUIRED TO CONNECT TO THE EXISTING SEWER LINES.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL SEWER LINES TO INSURE POSITIVE FLOW OF SEWER LINES.
15. THESE PLANS ARE SUBJECT TO APPROVAL BY THE LOCAL GOVERNING MUNICIPALITY AND ANY OTHER GOVERNING AUTHORITY.
16. ENGINEER HAS ATTEMPTED TO UTILIZE APPARENT EXISTING UTILITIES ON THE SITE, HOWEVER THE FUNCTION OR FEASIBILITY OF UTILIZING THESE APPARENT UTILITIES HAS NOT BEEN FIELD VERIFIED. THE ENGINEER DOES NOT WARRANT TO THE OWNER OR THE CONTRACTOR THAT THESE UTILITIES CAN BE USED. THIS SHOULD BE FIELD VERIFIED BY THE CONTRACTOR AND BE ACCOUNTED FOR APPROPRIATELY IN THE COSTING OF THE PROJECT.

MISSISSIPPI ONE CALL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION (INCLUDING BUT NOT LIMITED TO: WATER LINES, SEWER LINES, ELECTRICAL AND TELECOMMUNICATION LINES, AND FIBER OPTIC CABLES.)

MISSISSIPPI ONE CALL SYSTEM SERVICE AT: 1-800-227-6477 OR www.ms811.org

AT LEAST 3 DAYS BEFORE ANY CONSTRUCTION

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EXISTING DUGOUT TO REMAIN

SAWCUT

CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION AROUND EXISTING DUGOUT. CONTRACTOR SHALL REMOVE AND REPLACE DUGOUT PANELS AS NECESSARY TO PERFORM PROPOSED DEMOLITION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INCURRED.

18" CMP:
INV=152.25'

18" CMP:
INV=152.27'

18" CMP:
INV=151.46'

2'X2' CULVERT:
INV=151.53'

SEWER MANHOLE:
TOP=154.80'
8" PVC NW=150.90'
8" PVC E=151.50'
8" PVC S=150.90'

CONTROL POINT:
N:1026325.87'
E:2124778.06'
ELEV:155.02'
DESC:PK NAIL

15" CMP:
INV=154.48'

15" CMP:
INV=154.85'

CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION AROUND EXISTING DUGOUT. CONTRACTOR SHALL REMOVE AND REPLACE DUGOUT PANELS AS NECESSARY TO PERFORM PROPOSED DEMOLITION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INCURRED.

EXISTING DUGOUT TO REMAIN

DRAIN INLET:
TOP=161.95'
12" HDPE N INV=158.99'
18" RCP E INV=156.05'
18" RCP W INV=154.65'

CONTROL POINT:
N:1026322.24'
E:2124963.73'
ELEV:164.55'
DESC:PK NAIL

SAWCUT

GRAPHIC SCALE
1" = 10'
0' 5' 10' 20'

DEMOLITION LEGEND

- DENOTES BUILDING REMOVAL
- DENOTES ALUMINUM BLEACHER REMOVAL
- DENOTES CONCRETE PAVEMENT REMOVAL
- DENOTES ASPHALT PAVEMENT REMOVAL
- DENOTES CONCRETE STAIR REMOVAL
- DENOTES OVERHEAD POWER LINE REMOVAL
- DENOTES CHAIN LINK FENCE REMOVAL
- DENOTES SAWCUT LINE

DEMOLITION NOTES

1. OVERHEAD POWER SERVICE TO BE REMOVED, SEE ELECTRICAL FOR DETAILS. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING BUILDING, CONCRETE FOUNDATION, CONCRETE SIDEWALK, PORCH AND ALL OTHER APPURTENANCES CONNECTED AND AS PART OF THIS STRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITIES AND COORDINATING THE DISCONNECTION OF ANY AND ALL UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
3. CONTRACTOR SHALL REMOVE EXISTING CONCRETE STAIRS, RAILING, AND ALL OTHER APPURTENANCES CONNECTED AND AS PART OF THIS STRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
4. CONTRACTOR SHALL REMOVE EXISTING CHAIN LINK FENCE AND GATE. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
5. CONTRACTOR SHALL SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK AND PAVEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
6. CONTRACTOR SHALL REMOVE EXISTING LIGHT POLES, SEE ELECTRICAL FOR DETAILS. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
7. CONTRACTOR SHALL REMOVE EXISTING BLEACHERS, CONCRETE FOUNDATION, AND ALL OTHER APPURTENANCES CONNECTED AND AS PART OF THIS STRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
8. CONTRACTOR SHALL REMOVE 20± L.F. OF EXISTING 15"ø CMP STORM DRAIN PIPE. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
9. CONTRACTOR SHALL SAWCUT, WHERE APPLICABLE, AND REMOVE EXISTING ASPHALT PAVEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.

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JASON G. POLITE
LICENSED PROFESSIONAL ENGINEER
33177
STATE OF MISSISSIPPI
10.31.2025

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: ALR
CHECKED BY: JGP

SITE DEMOLITION PLAN
(VICKSBURG HIGH SCHOOL SOFTBALL)

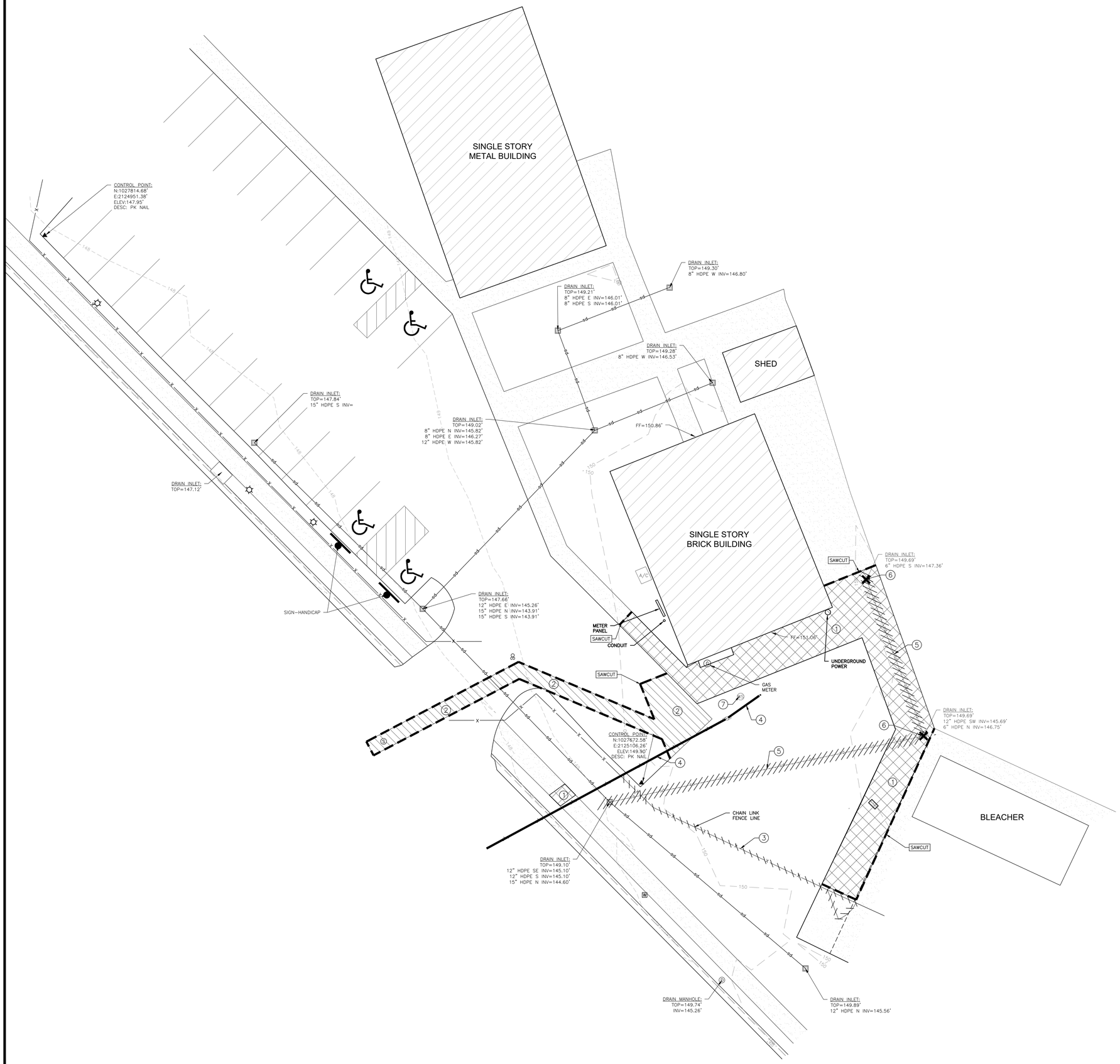
NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION

C100

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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DEMOLITION LEGEND

- DENOTES CONCRETE PAVEMENT REMOVAL
- DENOTES ASPHALT PAVEMENT REMOVAL
- DENOTES CHAIN LINK FENCE REMOVAL
- DENOTES SAWCUT LINE
- DENOTES OVERHEAD POWER LINE/ GUY WIRE REMOVAL
- DENOTES STORM PIPE REMOVAL
- DENOTES STORM DRAIN INLET REMOVAL
- (WS) DENOTES WATER SPIGOT REMOVAL

DEMOLITION NOTES

1. CONTRACTOR SHALL SAWCUT, WHERE APPLICABLE, AND REMOVE EXISTING CONCRETE PAVEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
2. CONTRACTOR SHALL SAWCUT, WHERE APPLICABLE, AND REMOVE EXISTING ASPHALT PAVEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
3. CONTRACTOR SHALL REMOVE CHAIN LINK FENCING. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
4. EXISTING POWER POLE, GUY WIRE AND OVERHEAD AND UNDERGROUND POWER SERVICE TO BE REMOVED, SEE ELECTRICAL FOR DETAILS. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
5. CONTRACTOR SHALL REMOVE EXISTING HDPE STORM PIPE. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DEBRIS RELATED TO THIS ITEM.
6. CONTRACTOR SHALL REMOVE EXISTING NYLOPLAST DRAIN INLET. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DEBRIS RELATED TO THIS ITEM.
7. CONTRACTOR SHALL CAP AND ABANDON EXISTING WATER SPIGOT. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.

GRAPHIC SCALE
1" = 10'
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JASON G. POLITE
LICENSED PROFESSIONAL
ENGINEER
33177
STATE OF MISSISSIPPI
10.31.2025

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
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CHECKED BY: JGP

SITE DEMOLITION PLAN
(VICKSBURG HIGH SCHOOL BASEBALL)

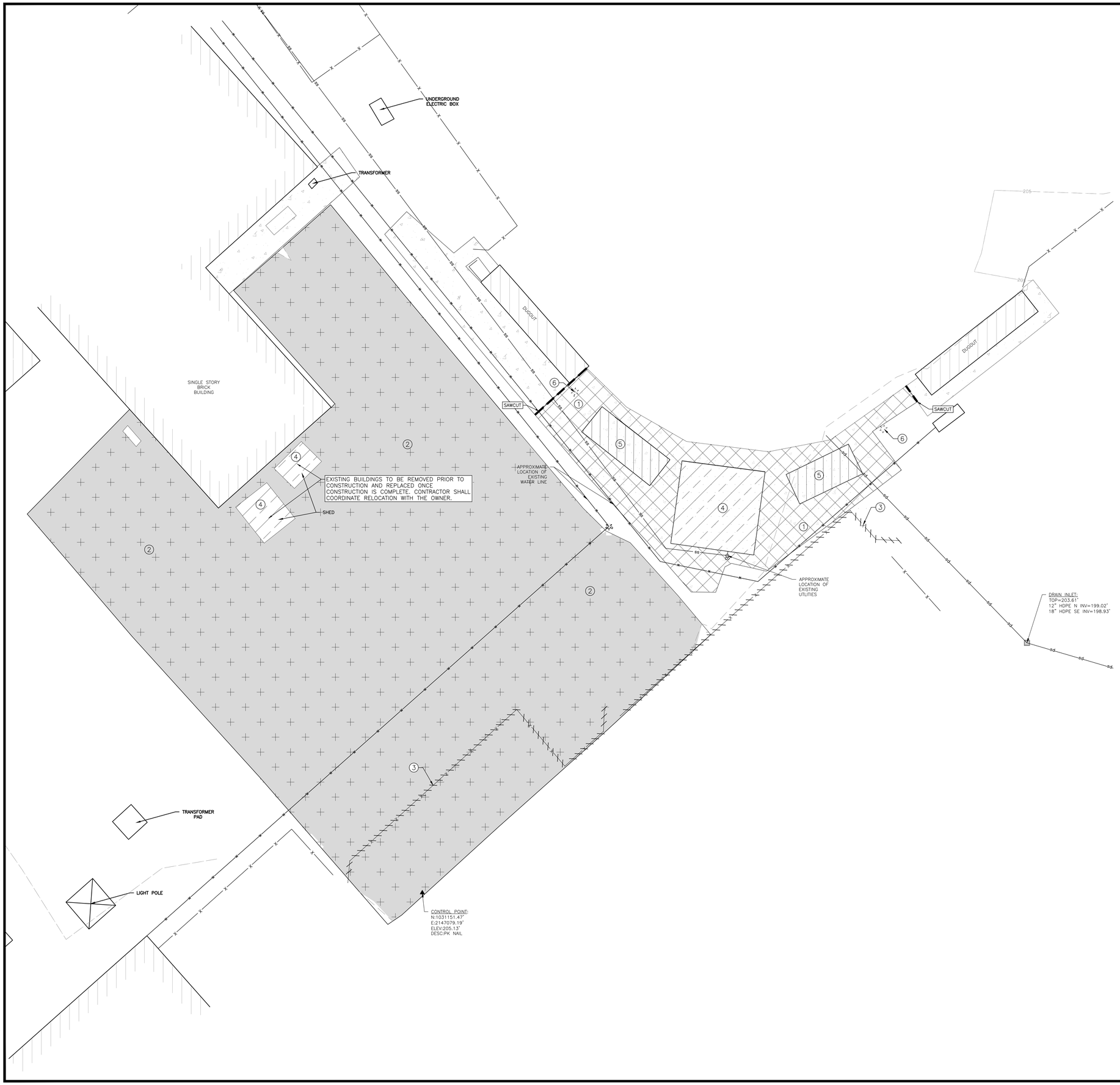
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DEMOLITION LEGEND

- DENOTES BUILDING REMOVAL
- DENOTES CONCRETE PAVEMENT REMOVAL
- DENOTES ASPHALT PAVEMENT REMOVAL
- DENOTES CHAIN LINK FENCE REMOVAL
- DENOTES ALUMINUM BLEACHER REMOVAL

DEMOLITION NOTES

1. CONTRACTOR SHALL SAWCUT, WHERE APPLICABLE, AND REMOVE EXISTING CONCRETE PAVEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
2. CONTRACTOR SHALL SAWCUT, WHERE APPLICABLE, AND REMOVE EXISTING ASPHALT PAVEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
3. CONTRACTOR SHALL REMOVE SECTION OF CHAIN LINK FENCING. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING BUILDING, CONCRETE FOUNDATION, CONCRETE SIDEWALK, PORCH AND ALL OTHER APPURTENANCES CONNECTED AND AS PART OF THIS STRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITIES AND COORDINATING THE DISCONNECTION OF ANY AND ALL UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
5. CONTRACTOR SHALL REMOVE EXISTING BLEACHERS, CONCRETE FOUNDATION, AND ALL OTHER APPURTENANCES CONNECTED AND AS PART OF THIS STRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL DEBRIS RELATED TO THIS ITEM.
6. CONTRACTOR SHALL REMOVE EXISTING LIGHT POLES, SEE ELECTRICAL FOR DETAILS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DEBRIS RELATED TO THIS ITEM.

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JASON G. POLITE
LICENSED PROFESSIONAL ENGINEER
33177
STATE OF MISSISSIPPI
10.31.2025

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
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SITE DEMOLITION PLAN
(WARREN CENTRAL HIGH SCHOOL SOFTBALL)

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
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STORM WATER POLLUTION PREVENTION PLAN
(VICKSBURG HIGH SCHOOL SOFTBALL)

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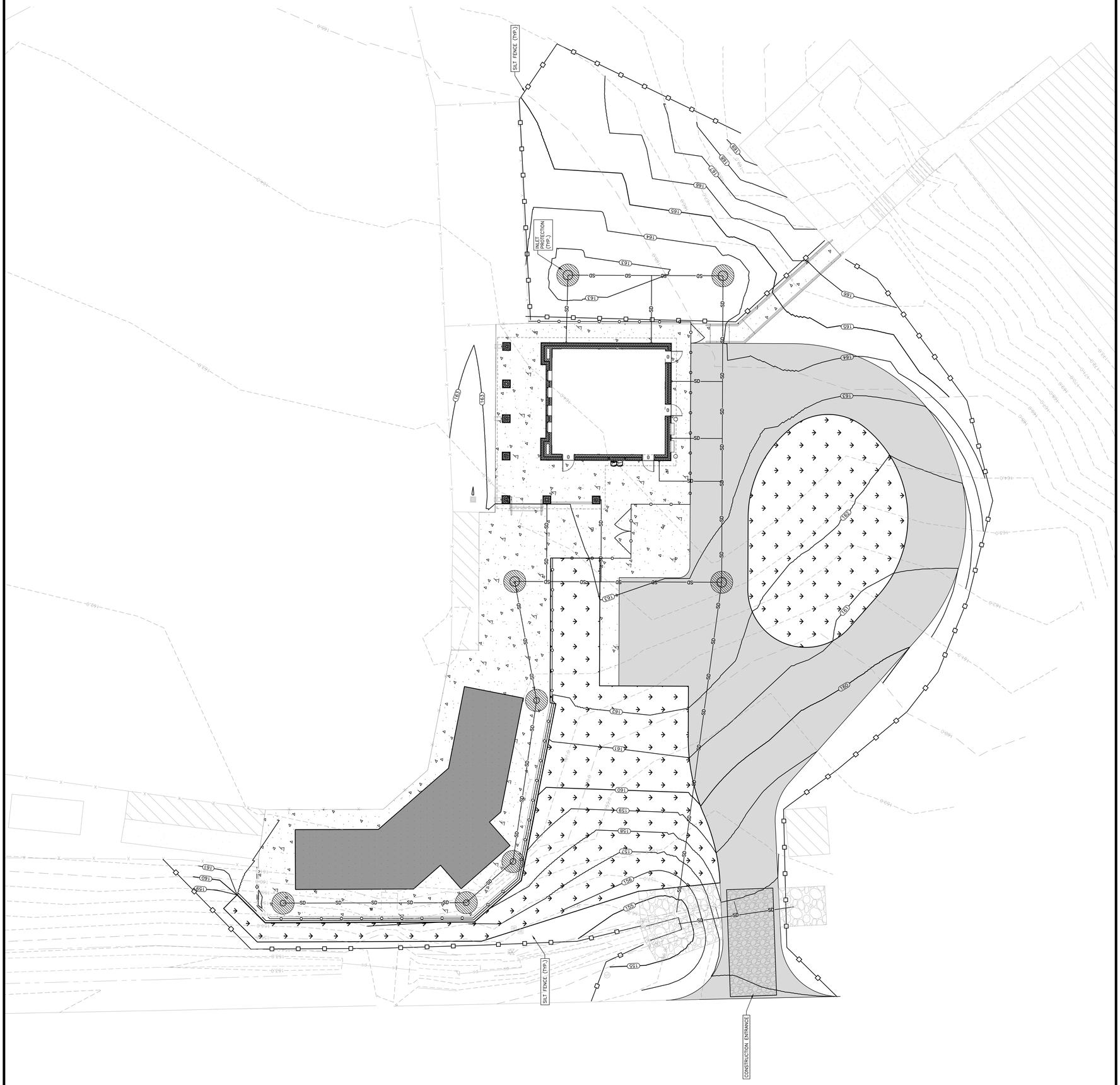
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- DENOTES INLET PROTECTION
- DENOTES CONSTRUCTION ENTRANCE/EXIT

GRAPHIC SCALE
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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

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1000 MS-27, Vicksburg, MS 39180

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STORM WATER POLLUTION PREVENTION PLAN
(VICKSBURG HIGH SCHOOL BASEBALL)

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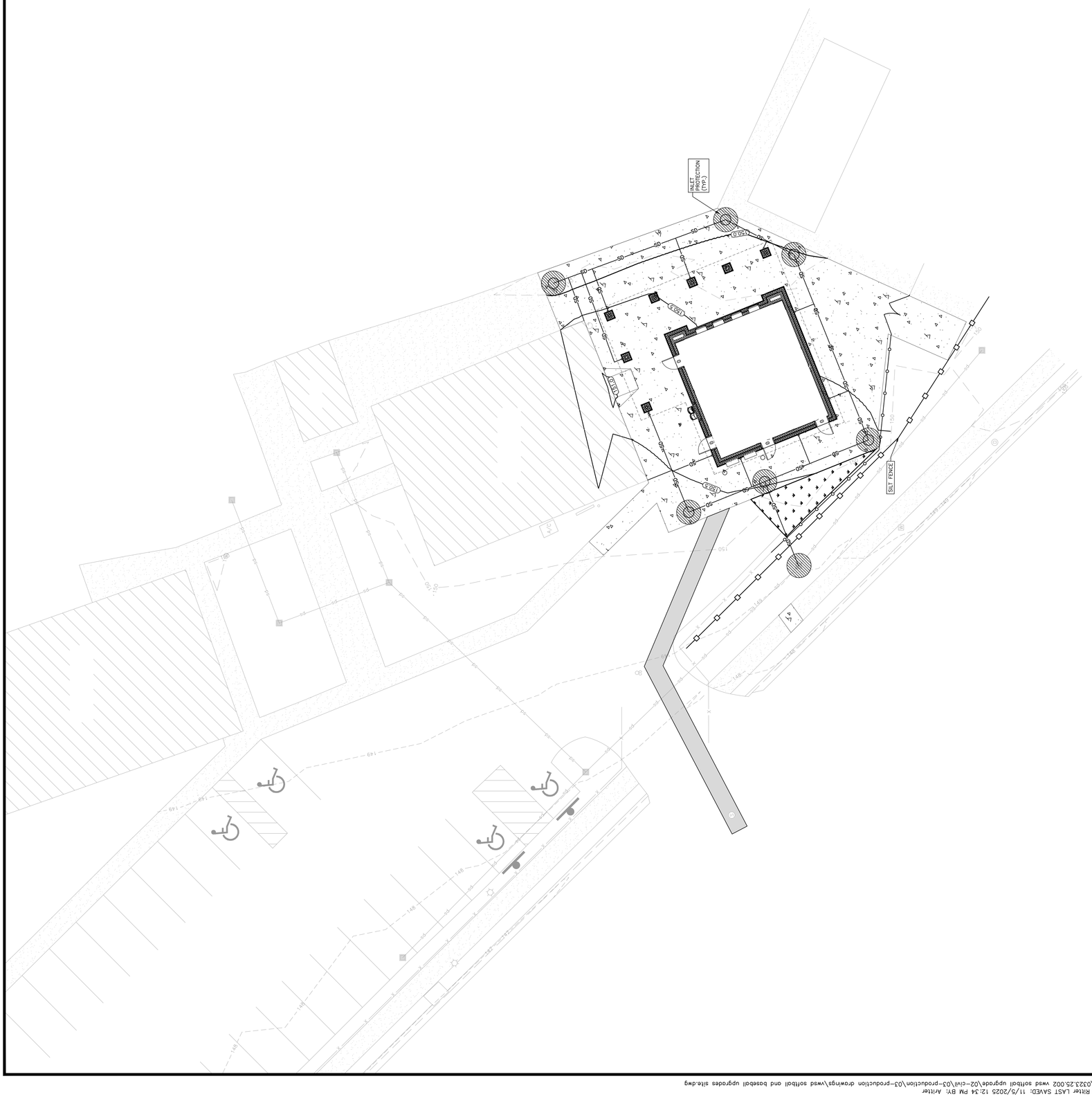
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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

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1000 MS-27, Vicksburg, MS 39180

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STORM WATER POLLUTION PREVENTION PLAN
(WARREN CENTRAL HIGH SCHOOL SOFTBALL)

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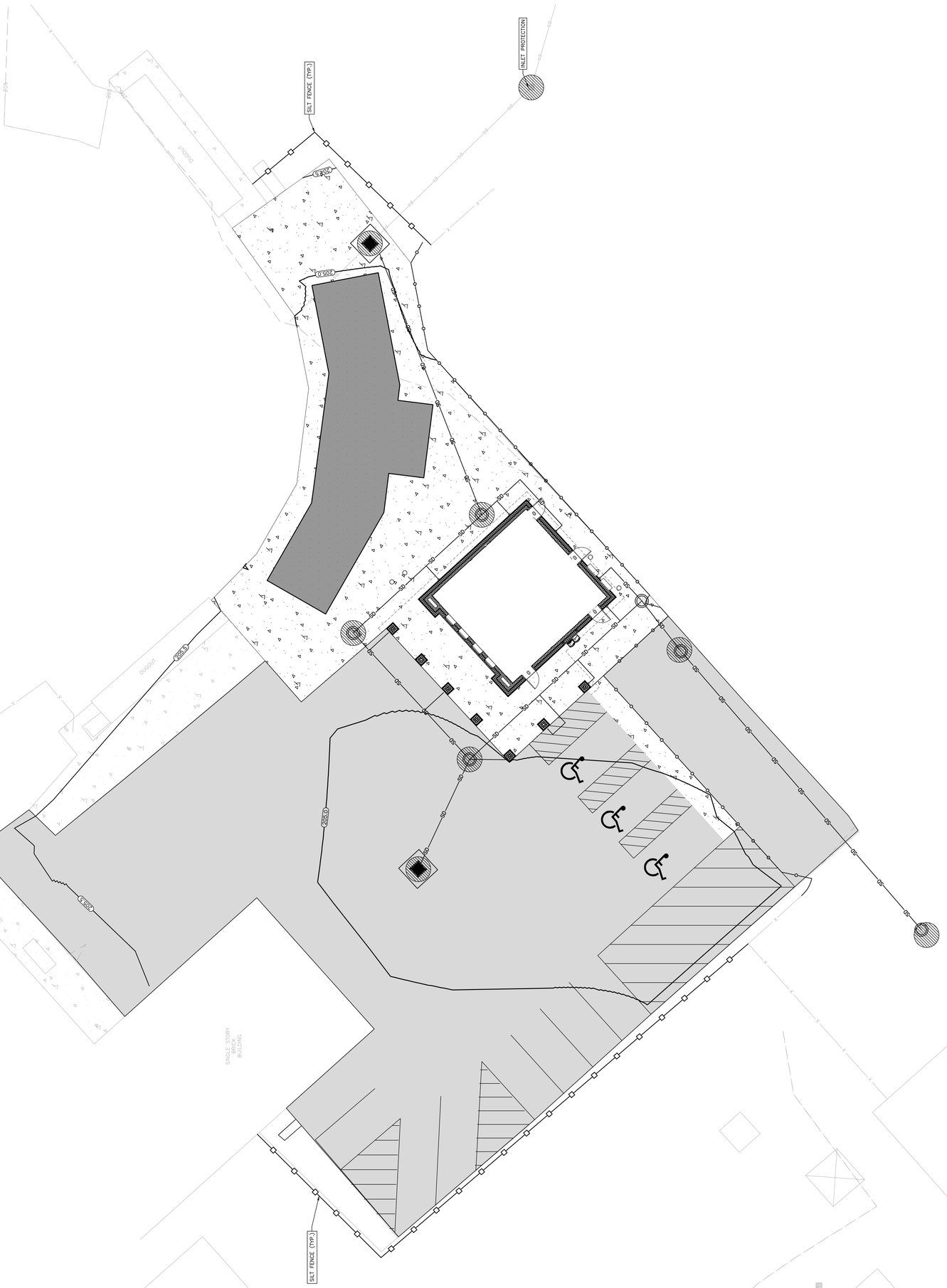
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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

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1000 MS-27, Vicksburg, MS 39180

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CIVIL SITE PLAN
(VICKSBURG HIGH SCHOOL SOFTBALL)

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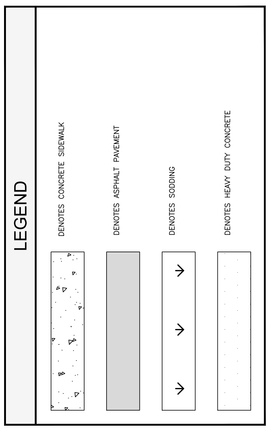
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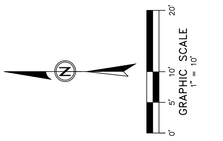
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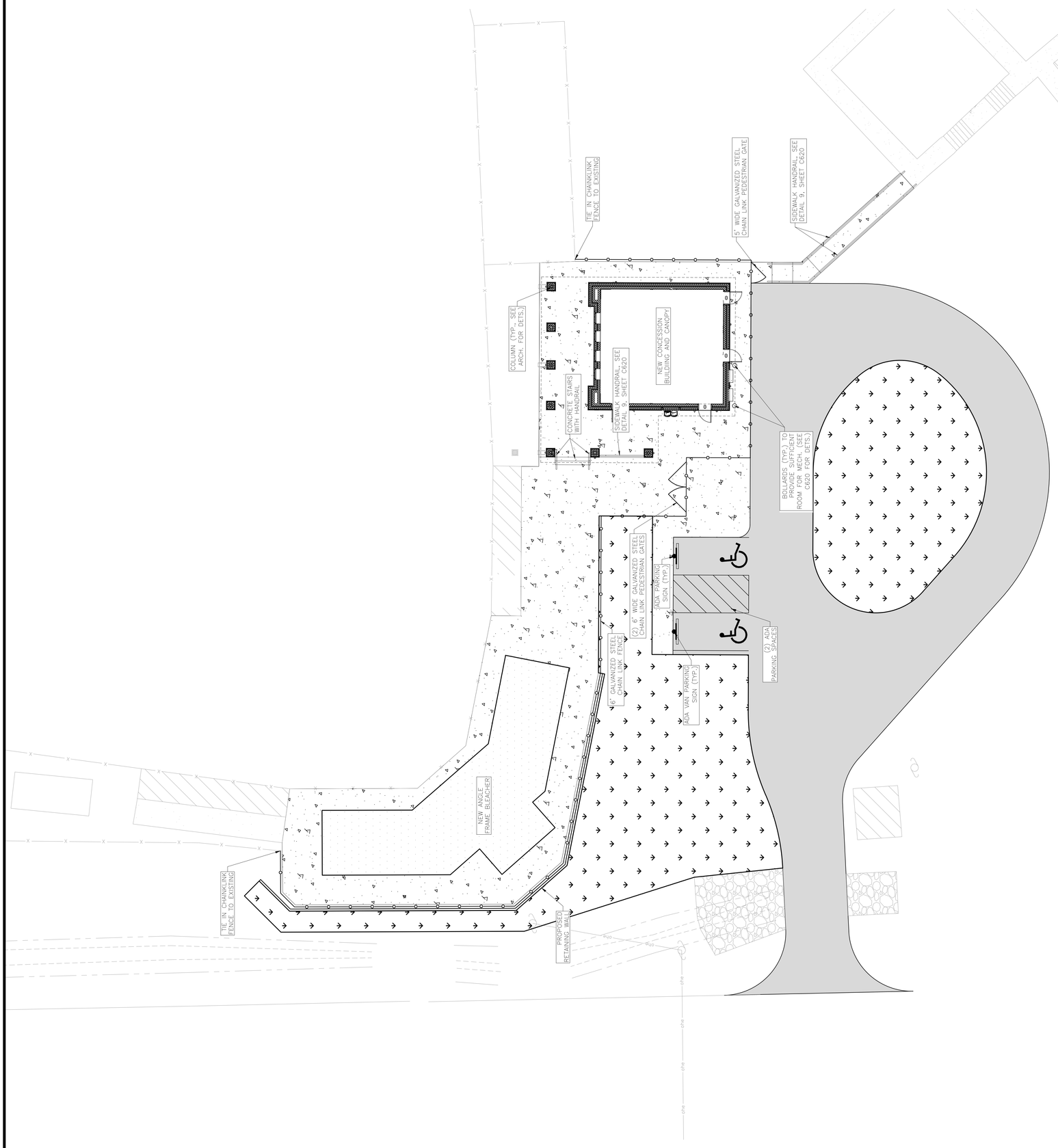
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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

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CIVIL SITE PLAN
(VICKSBURG HIGH SCHOOL BASEBALL)

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

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CIVIL SITE PLAN
(WARREN CENTRAL HIGH SCHOOL SOFTBALL)

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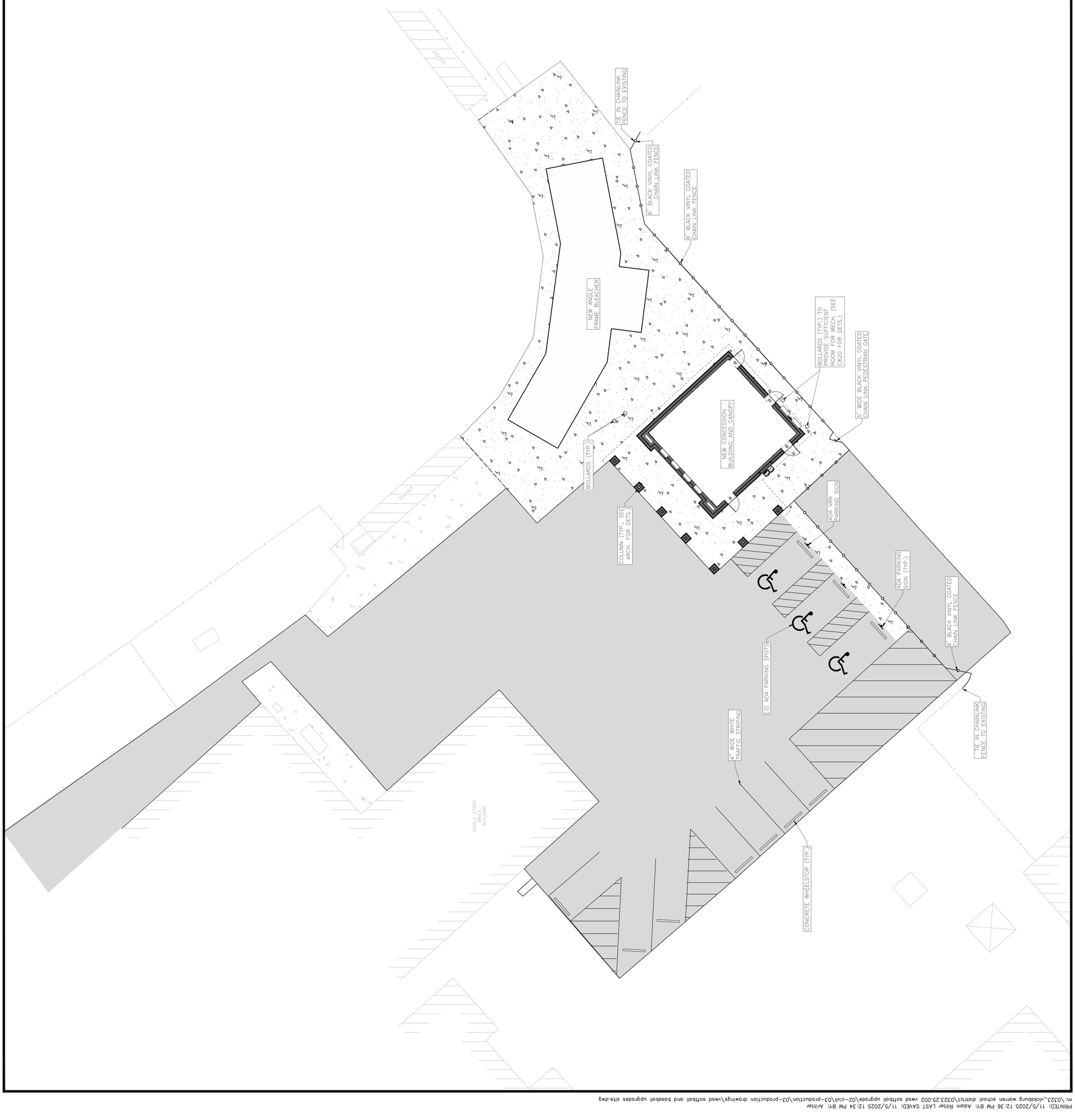
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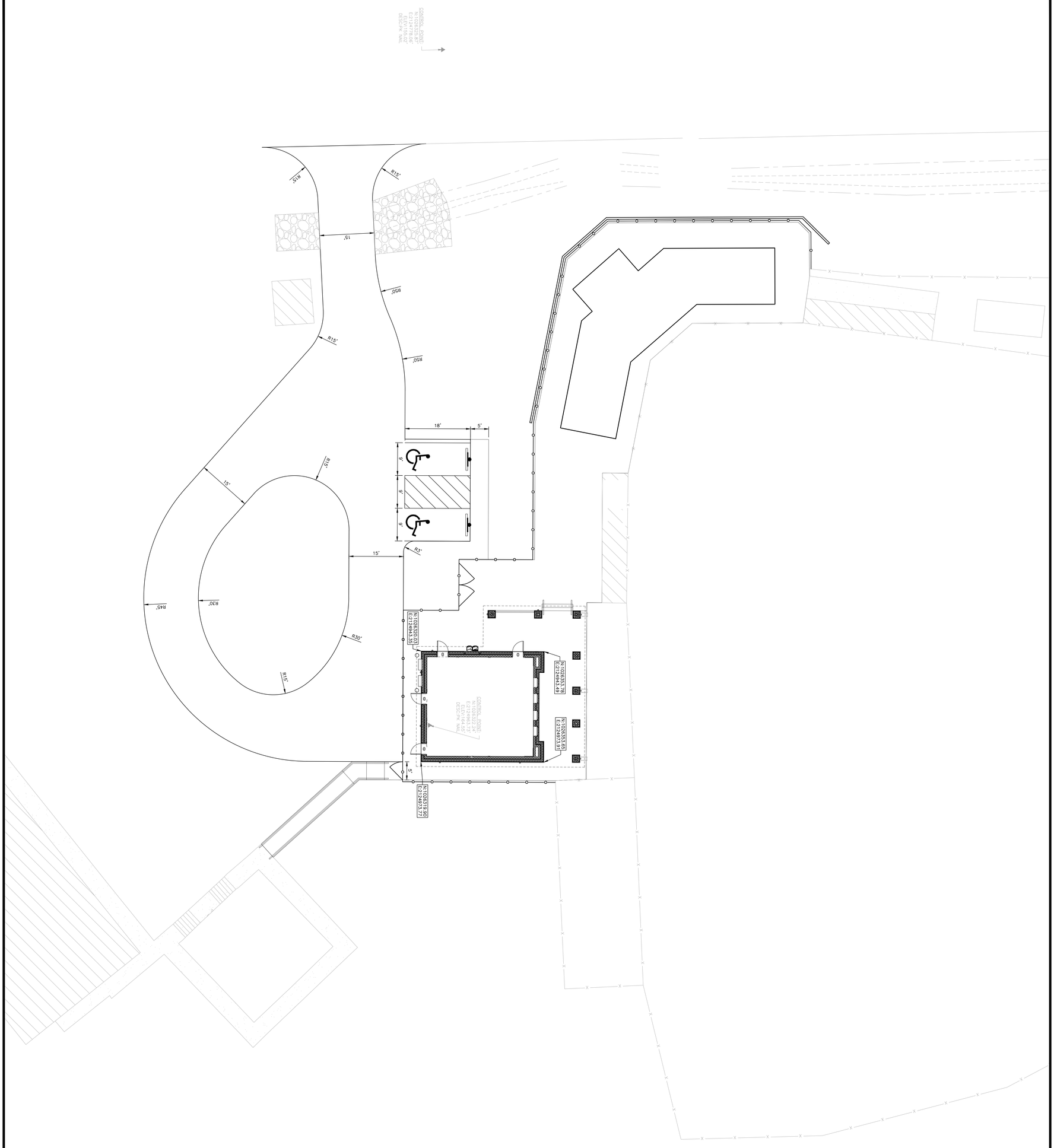
- DENOTES CONCRETE SIDEWALK
- DENOTES ASPHALT PAVEMENT
- DENOTES HEAVY DUTY CONCRETE

GRAPHIC SCALE
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SITE LAYOUT PLAN
(VICKSBURG HIGH SCHOOL SOFTBALL)

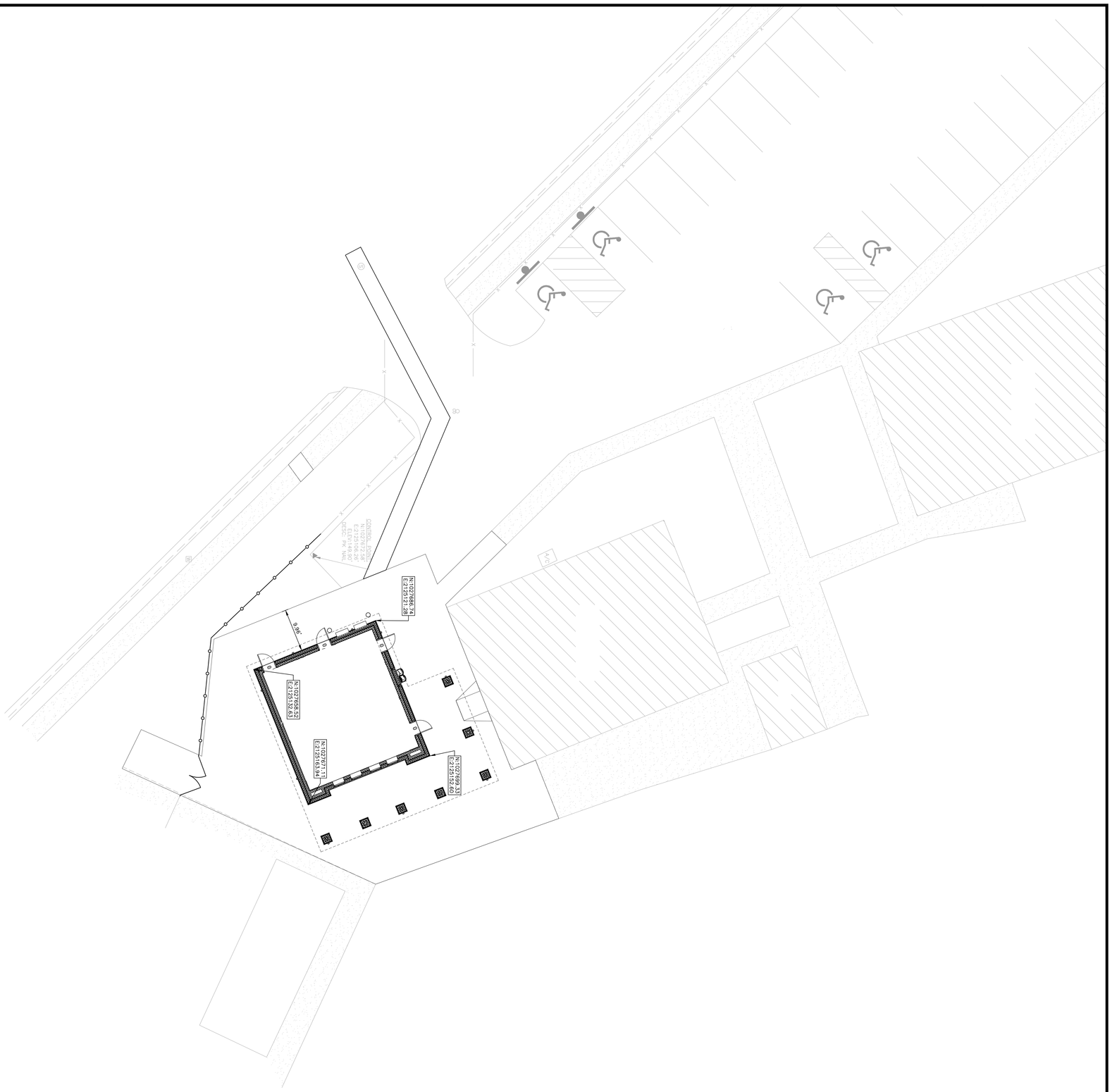
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SOFTBALL UPGRADES
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1000 MS-27, Vicksburg, MS 39180

JASON G. POLLEY — 33177 — STATE OF MISSISSIPPI — REGISTERED PROFESSIONAL ENGINEER — 10.31.2025

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SITE LAYOUT PLAN
(VICKSBURG HIGH SCHOOL BASEBALL)

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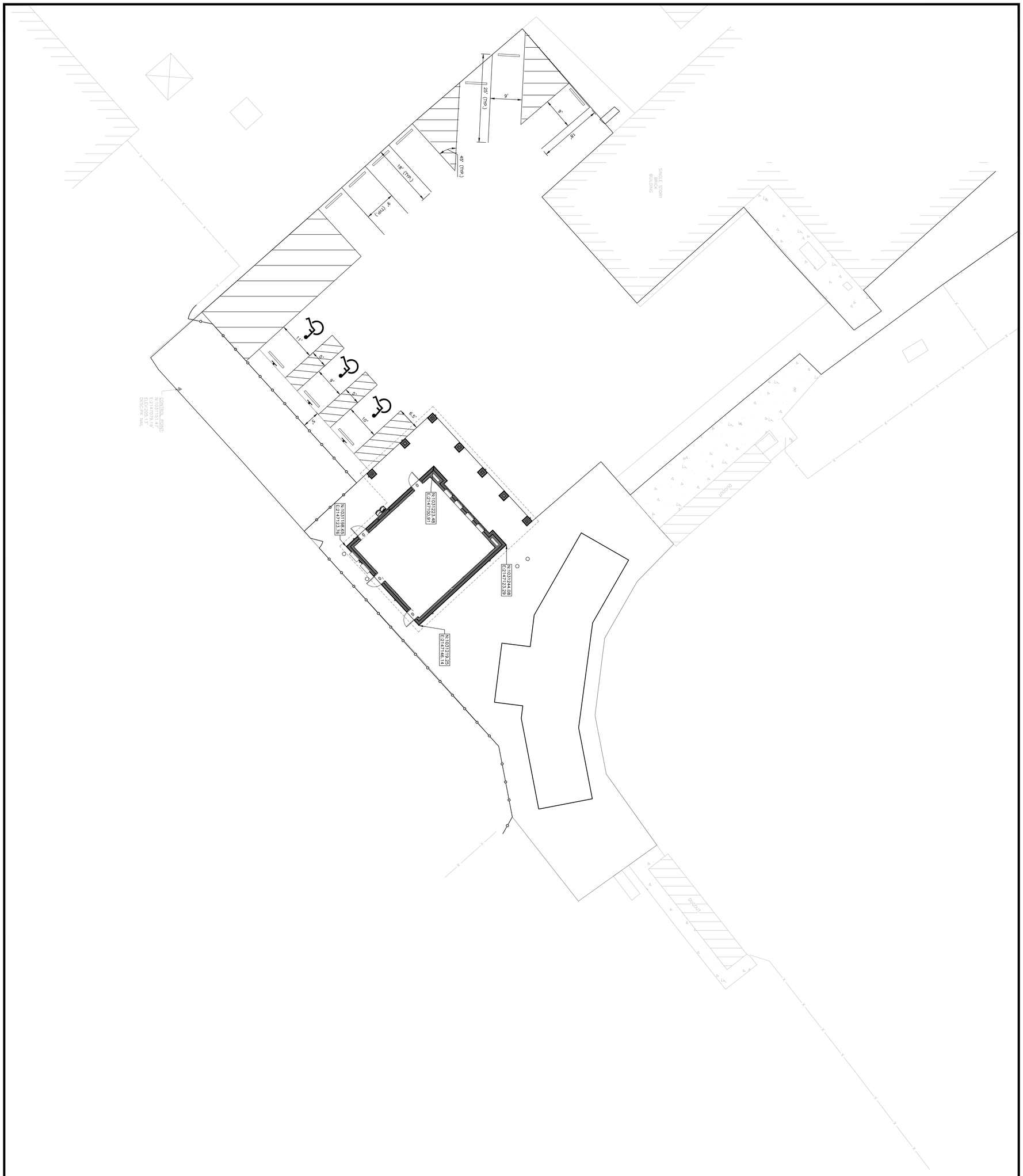
SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

JASON G. POLLARD
LICENSED PROFESSIONAL ENGINEER
35177
STATE OF MISSISSIPPI
10.31.2025

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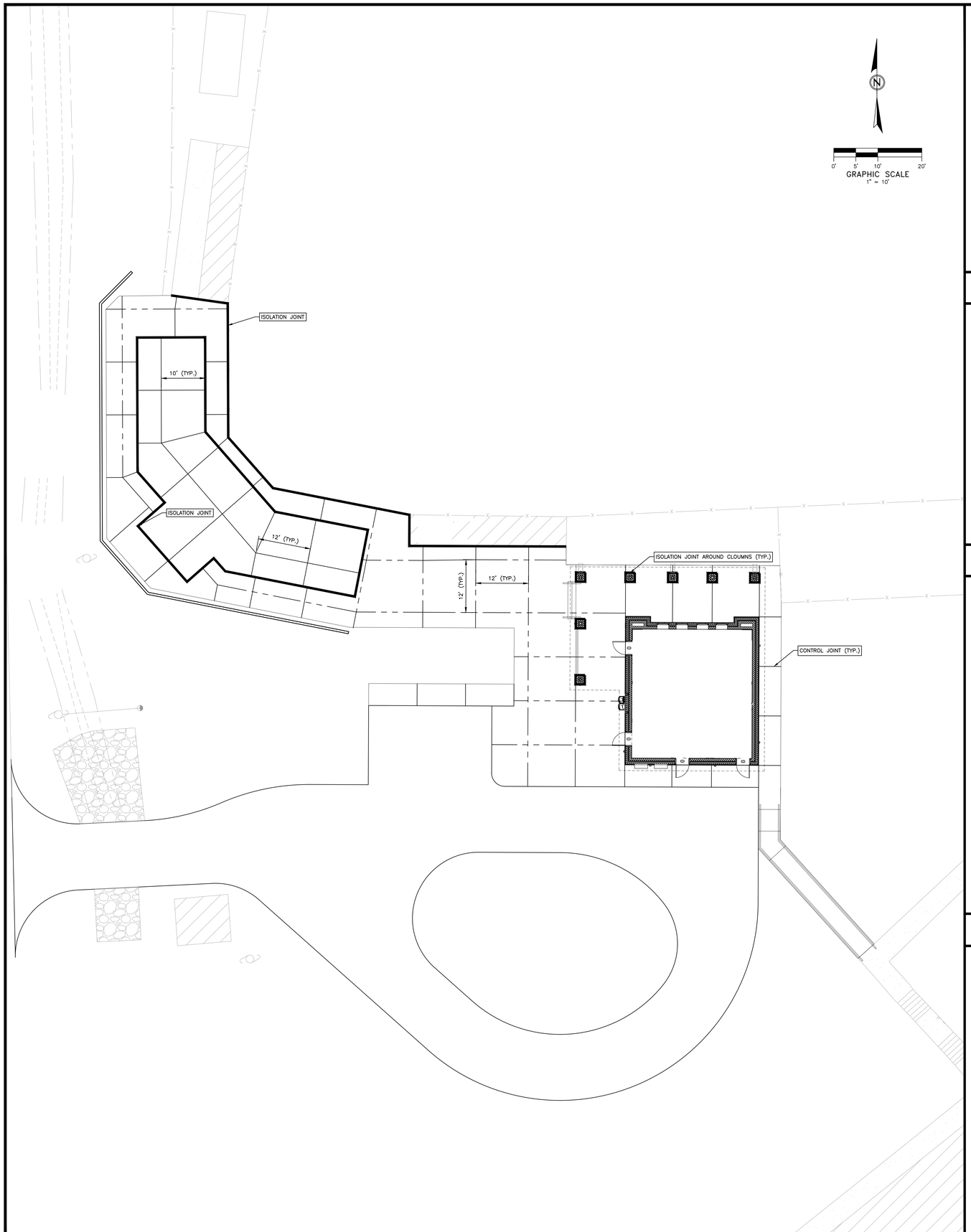
SITE LAYOUT PLAN
(WARREN CENTRAL HIGH SCHOOL SOFTBALL)

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: ALR
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SOFTBALL UPGRADES
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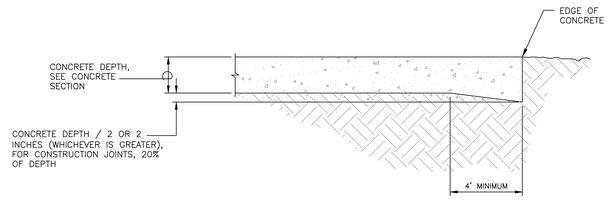
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1 JOINTING PLAN

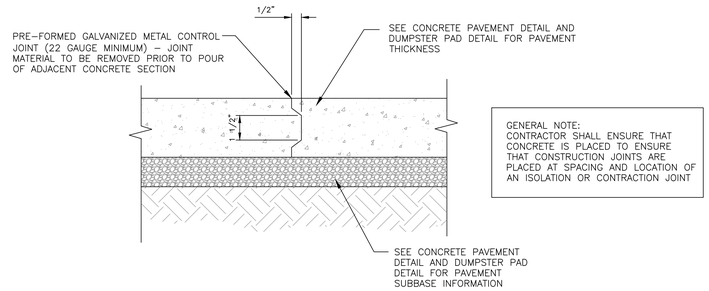
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2 GENERAL JOINTING NOTES



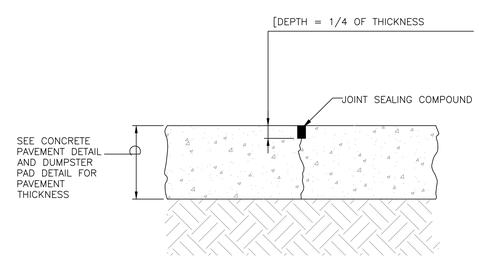
3 THICKENED SLAB DETAIL

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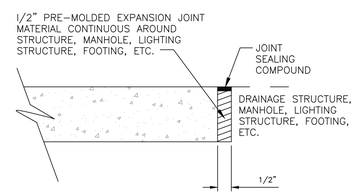
4 PRE-FORMED GALVANIZED METAL CONSTRUCTION JOINT DETAIL

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5 CONTRACTION JOINT DETAIL

NOT TO SCALE



6 ISOLATION JOINT DETAIL

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JASON G. POLITE
LICENSED PROFESSIONAL ENGINEER
33177
STATE OF MISSISSIPPI
10.31.2025

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

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JOINTING PLAN AND DETAILS (VICKSBURG HIGH SCHOOL SOFTBALL)

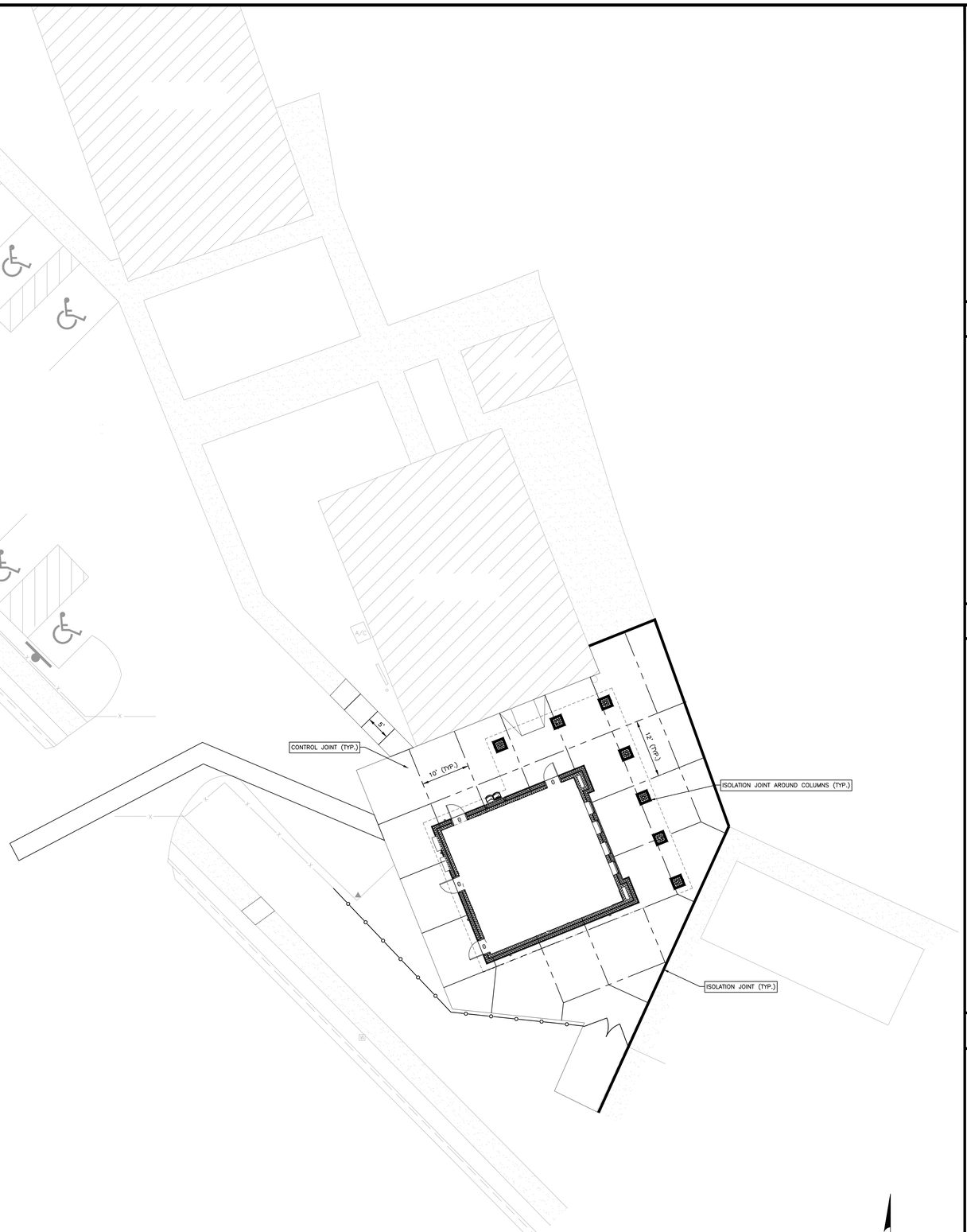
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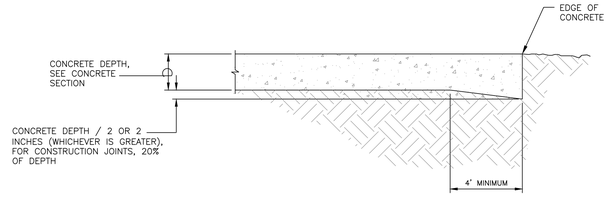
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1 JOINTING PLAN

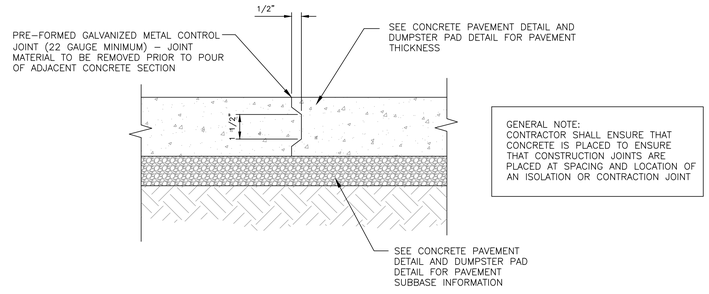
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2 GENERAL JOINTING NOTES



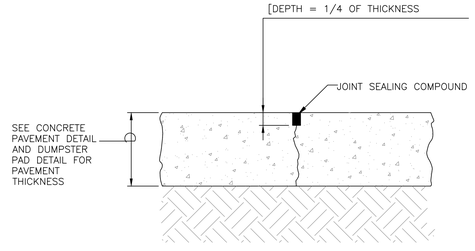
3 THICKENED SLAB DETAIL

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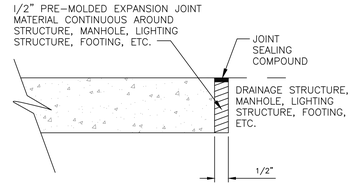
4 PRE-FORMED GALVANIZED METAL CONSTRUCTION JOINT DETAIL

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NOT TO SCALE



6 ISOLATION JOINT DETAIL

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JASON G. POLITE
LICENSED PROFESSIONAL ENGINEER
33177
STATE OF MISSISSIPPI
10.31.2025

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

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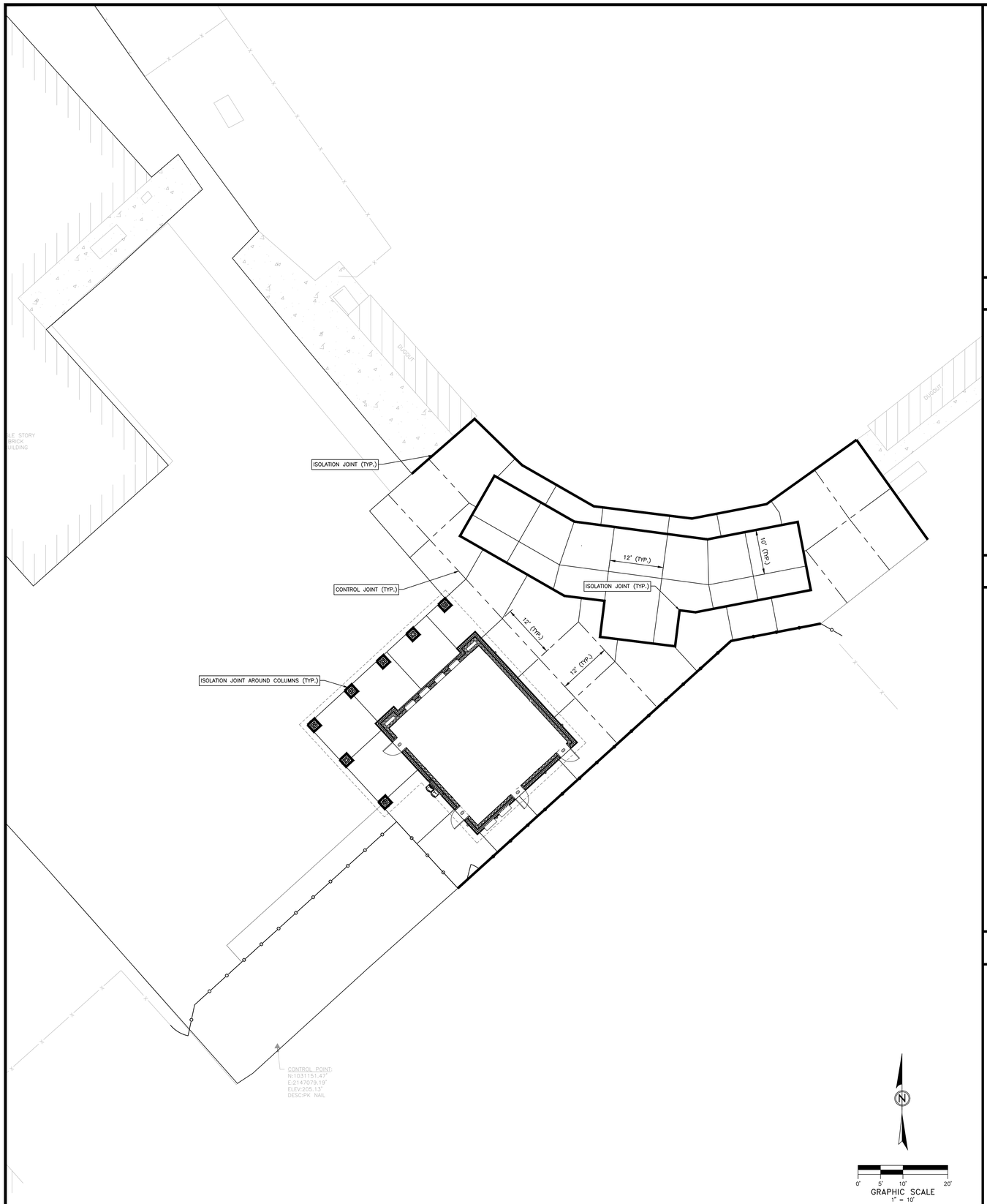
JOINTING PLAN AND DETAILS (VICKSBURG HIGH SCHOOL BASEBALL)

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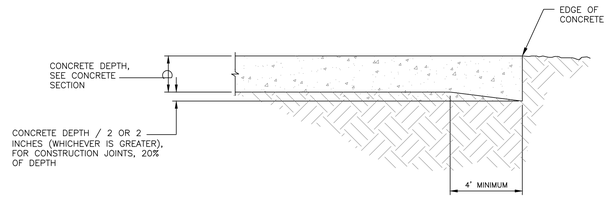
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1 JOINTING PLAN

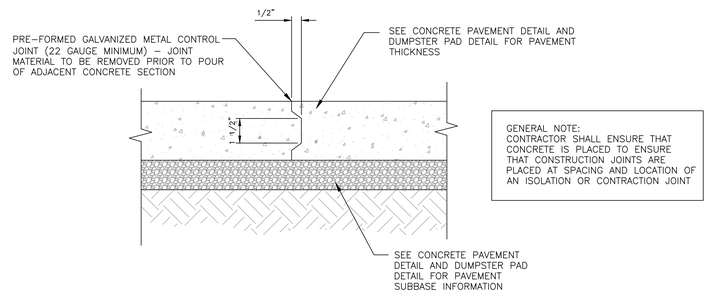
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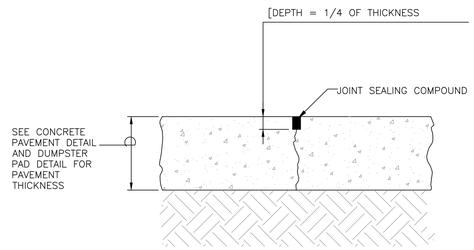
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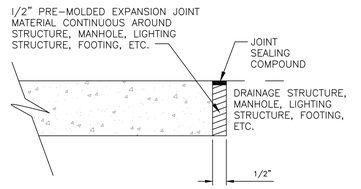
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STATE OF MISSISSIPPI
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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
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JOINTING PLAN AND DETAILS
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VICKSBURG WARREN SCHOOL DISTRICT

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SITE GRADING PLAN
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GRADING LEGEND

- 195.50 — DENOTES PROPOSED SPOT ELEVATIONS
- TC 195.50 — DENOTES TOP OF RETAINING WALL ELEVATION
- TC 195.50 — DENOTES TOP OF CURB ELEVATION
- 50 — DENOTES EXISTING GRADE CONTOUR
- 50 — DENOTES FINISHED GRADE CONTOUR
- −3.50% — DENOTES WATERSHED FLOW DIRECTION

GRAPHIC SCALE
1" = 10'
0' 5' 10' 20'

N

PROPOSED CONCESSION & RESTROOMS BUILDING FFE 163.75

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JASON E. POLITE JR. — MISSISSIPPI — LICENSED PROFESSIONAL ENGINEER — 35177 — STATE OF MISSISSIPPI — 10.31.2025

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: ALR
CHECKED BY: JGP

SITE GRADING PLAN
(WARREN CENTRAL HIGH SCHOOL SOFTBALL)

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C301

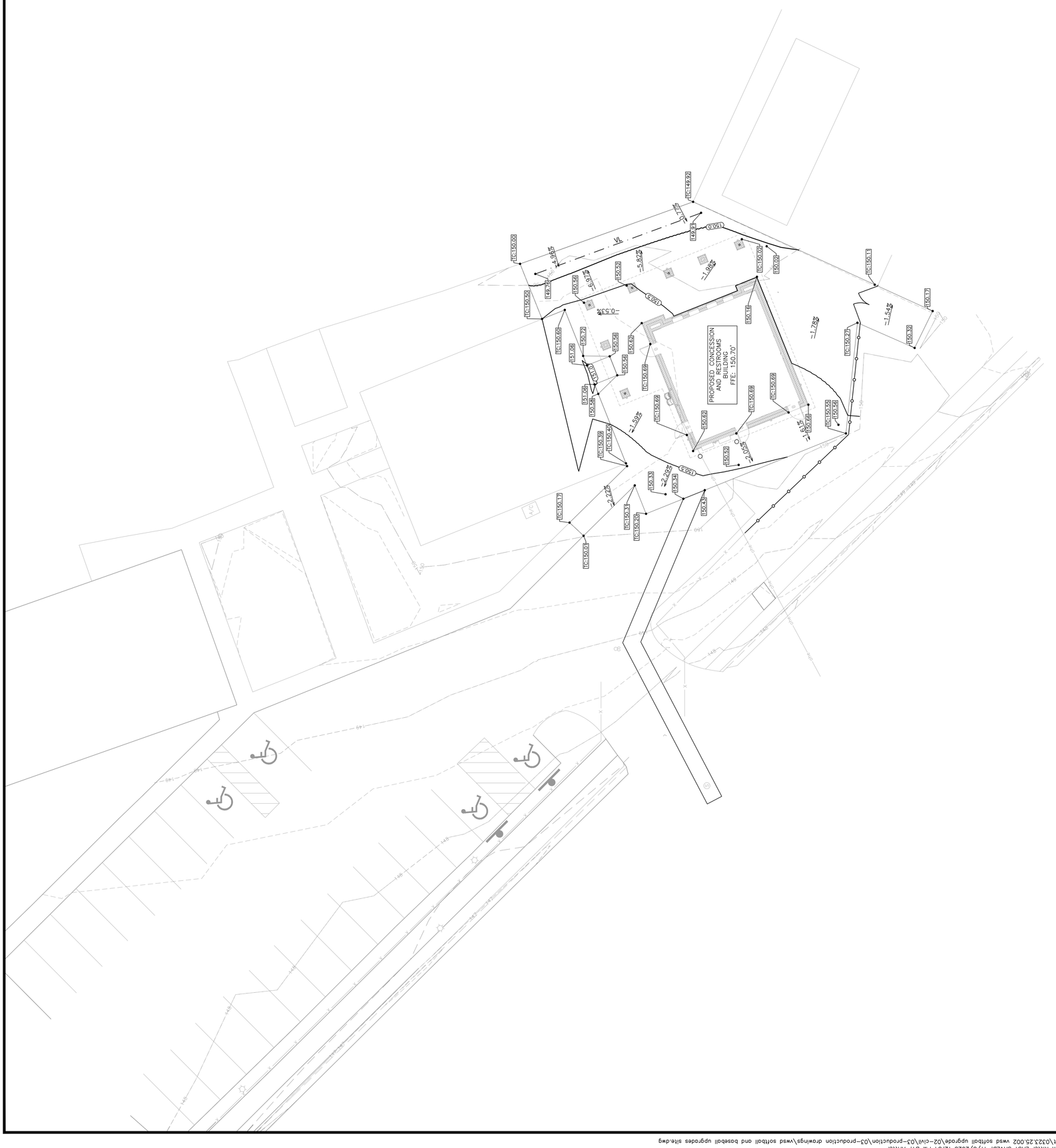
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GRADING LEGEND

1186.50	DENOTES PROPOSED SPOT ELEVATIONS
150	DENOTES EXISTING GRADE CONTOUR
150	DENOTES FINISHED GRADE CONTOUR
-3.50%	DENOTES WATERSHED FLOW DIRECTION
VL	DENOTES GRADING VALLEY LINE

GRAPHIC SCALE
1" = 10'
0' 5' 10' 20'



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JASON E. POLITE JR. — MISSISSIPPI — LICENSED PROFESSIONAL ENGINEER — 35177 — STATE OF MISSISSIPPI — 10.31.2025

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: ALR
CHECKED BY: JGP

SITE GRADING PLAN
(WARREN CENTRAL HIGH SCHOOL SOFTBALL)

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GRADING LEGEND

- 1185.50 — DENOTES PROPOSED SPOT ELEVATIONS
- 30 — DENOTES EXISTING GRADE CONTOUR
- 30 — DENOTES FINISHED GRADE CONTOUR
- ~3.50% — DENOTES WATERSHED FLOW DIRECTION

GRAPHIC SCALE
1" = 10'
0' 5' 10' 20'

N

CONTROL POINT
N:1031151.47
E:2747079.19
ELEV=205.13
DESCRIPTION: NAIL

PROPOSED CONCESSION AND RESTROOMS BUILDING
FFE: 205.30'

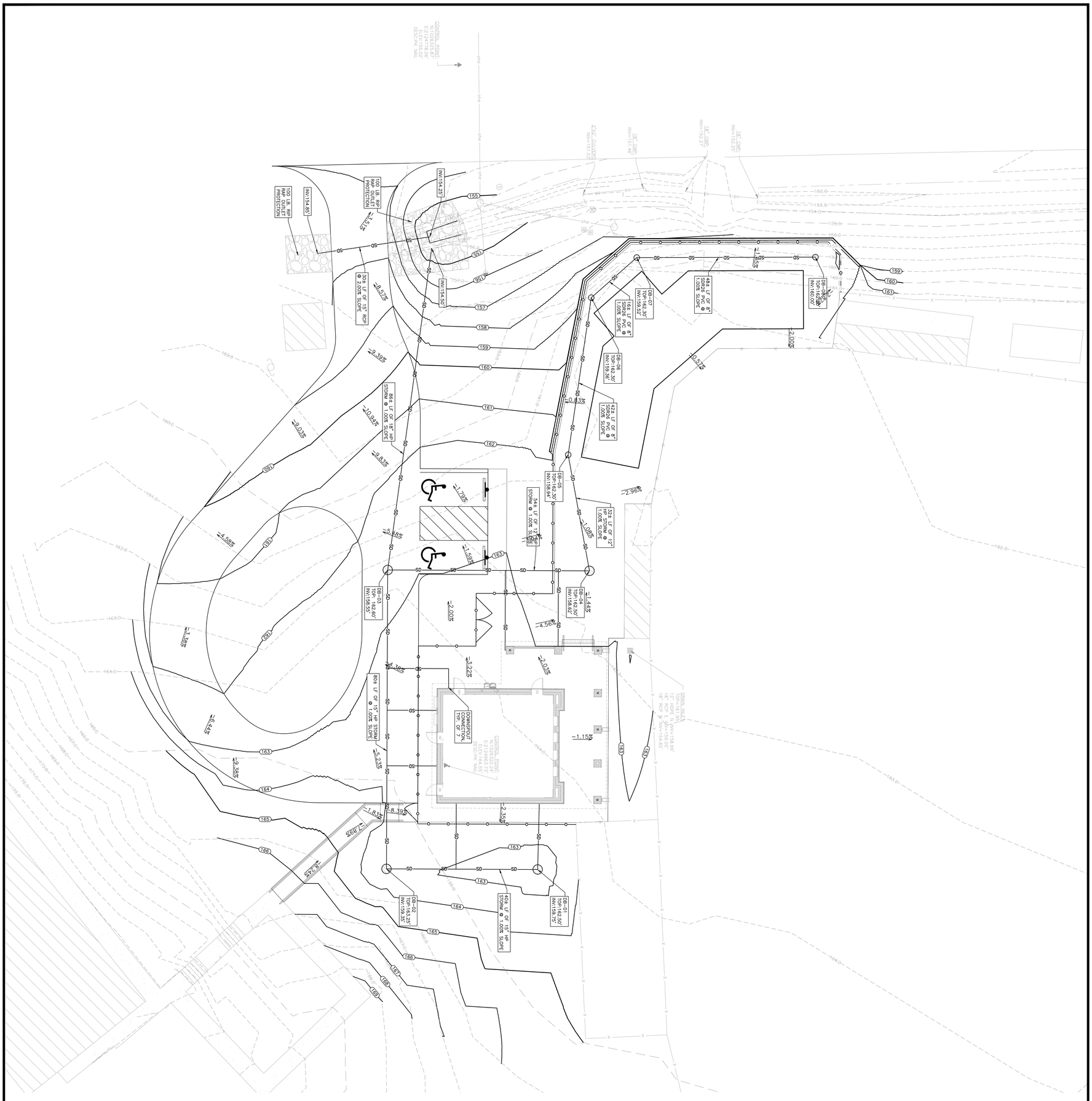
TC 205.30
TC 205.30
TC 205.30
TC 205.30

SINGLE STORY BRICK BUILDING

GUTTER

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SITE DRAINAGE PLAN
(VICKSBURG HIGH SCHOOL SOFTBALL)

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: ALR
CHECKED BY: JGP

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

JASON G. POLITZ — LICENSED PROFESSIONAL ENGINEER — 33177 — STATE OF MISSISSIPPI — 10.31.2025

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: ALR
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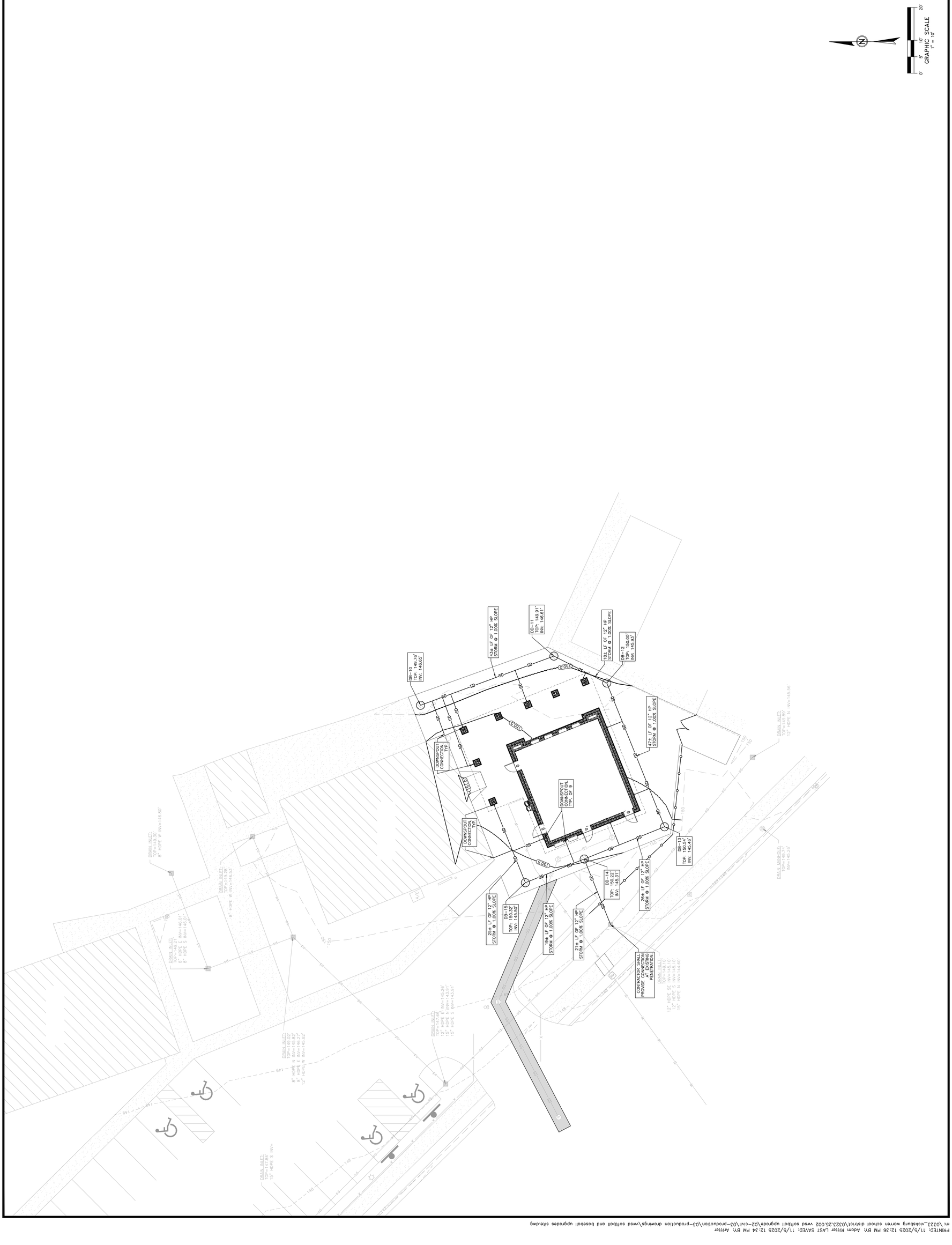
SITE DRAINAGE PLAN
(VICKSBURG HIGH SCHOOL BASEBALL)

NO.	DATE	REVISION / SUBMITTAL
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C311

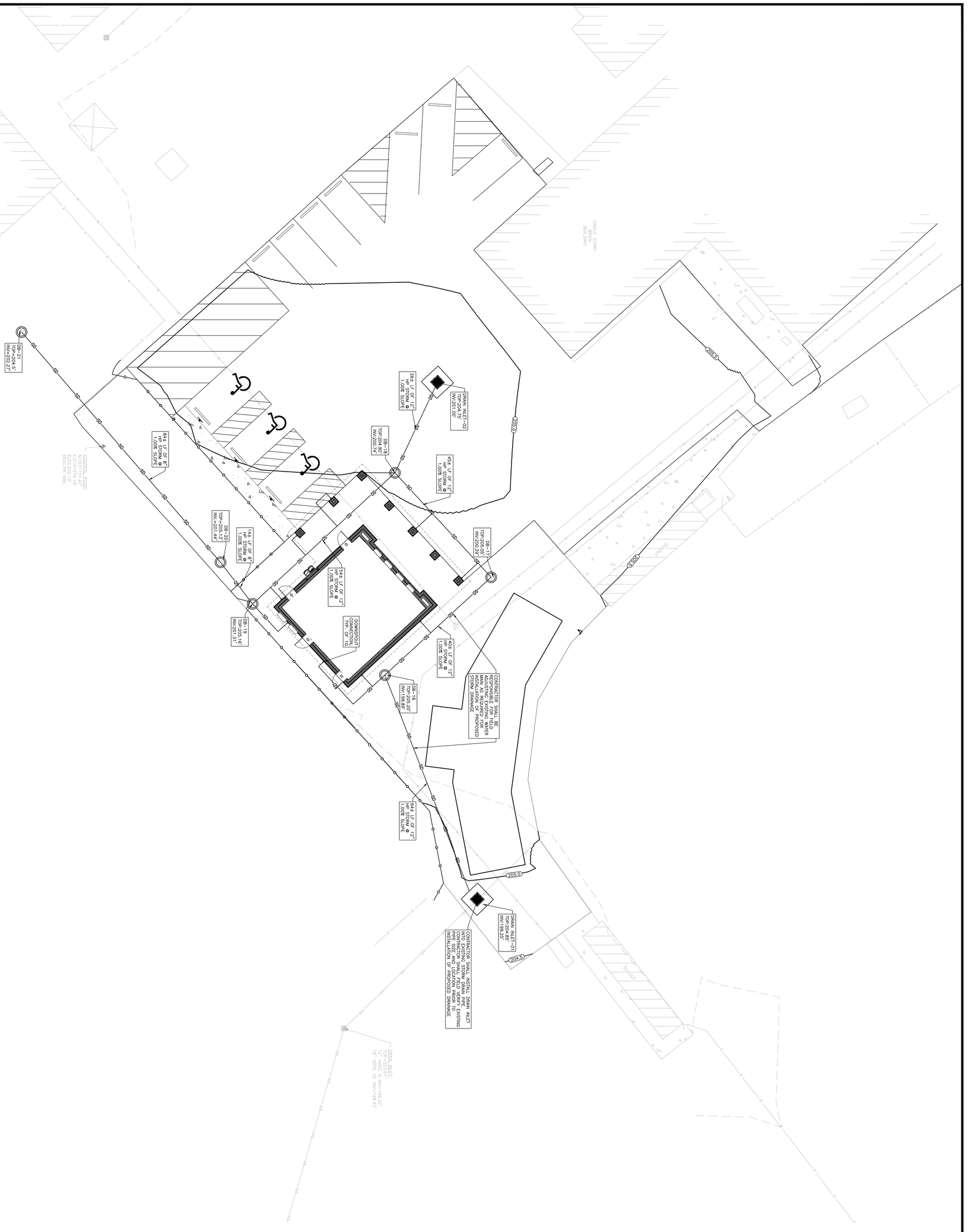
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SITE DRAINAGE PLAN
(WARREN CENTRAL HIGH SCHOOL SOFTBALL)

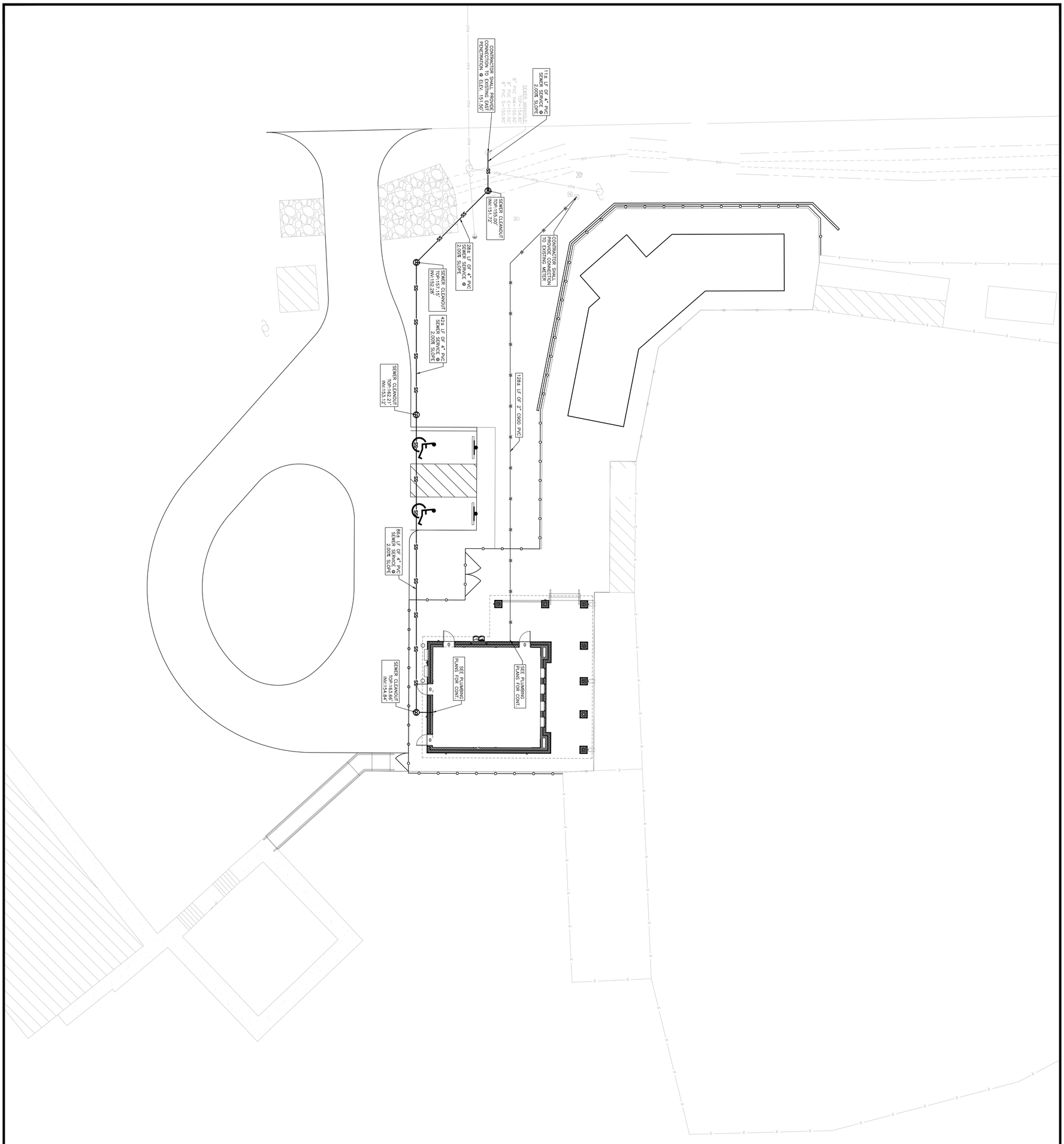
SCALE: AS SHOWN
PROJECT NO. 0323.25.002
DRAWN BY: ALR
CHECKED BY: JGP

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

JASON G. POLITZ
LICENSED PROFESSIONAL ENGINEER
33177
STATE OF MISSISSIPPI
11.31.2025

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SITE UTILITY PLAN
(VICKSBURG HIGH SCHOOL SOFTBALL)

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
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1000 MS-27, Vicksburg, MS 39180

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LICENSED PROFESSIONAL ENGINEER
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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
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SITE UTILITY PLAN
(VICKSBURG HIGH SCHOOL BASEBALL)

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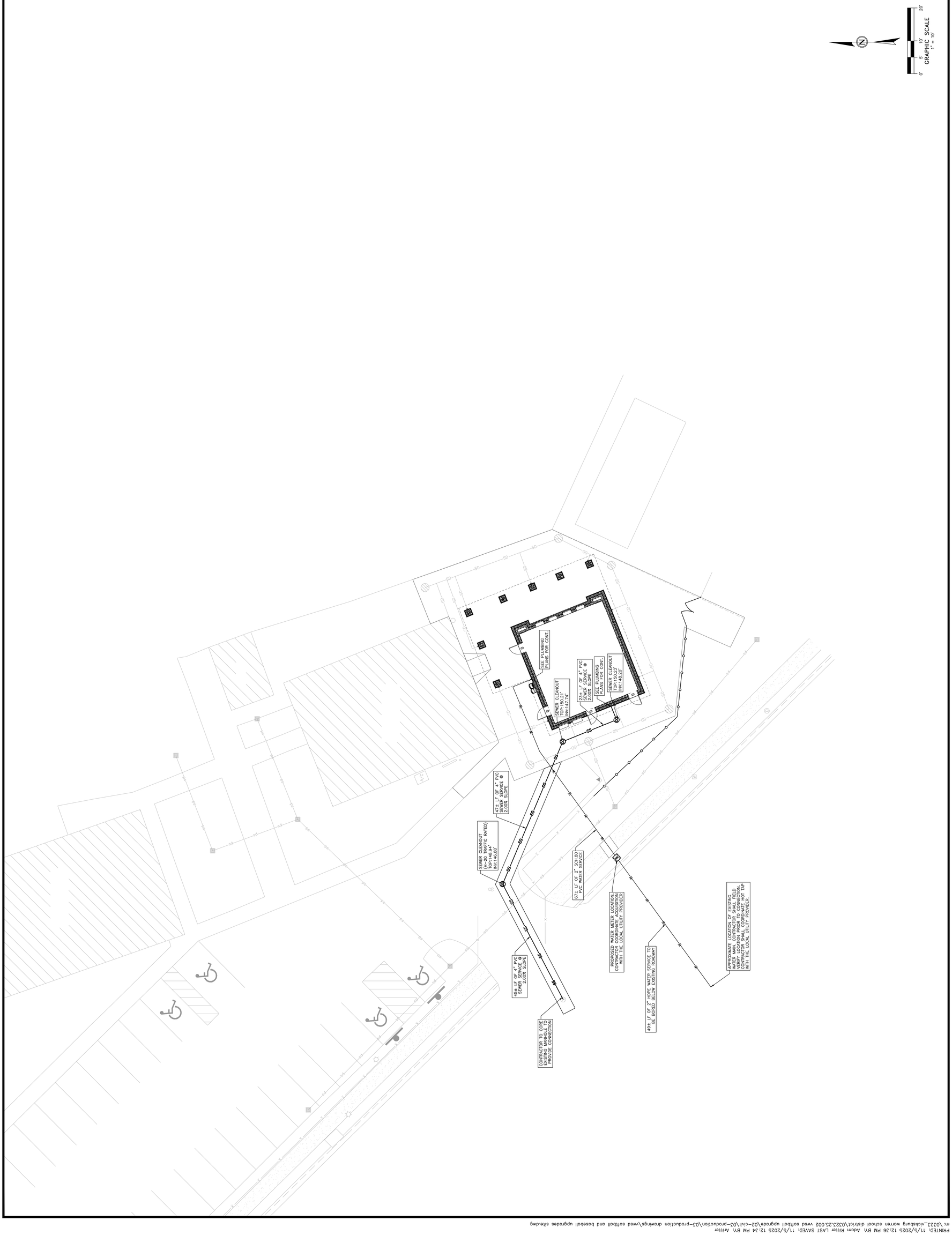
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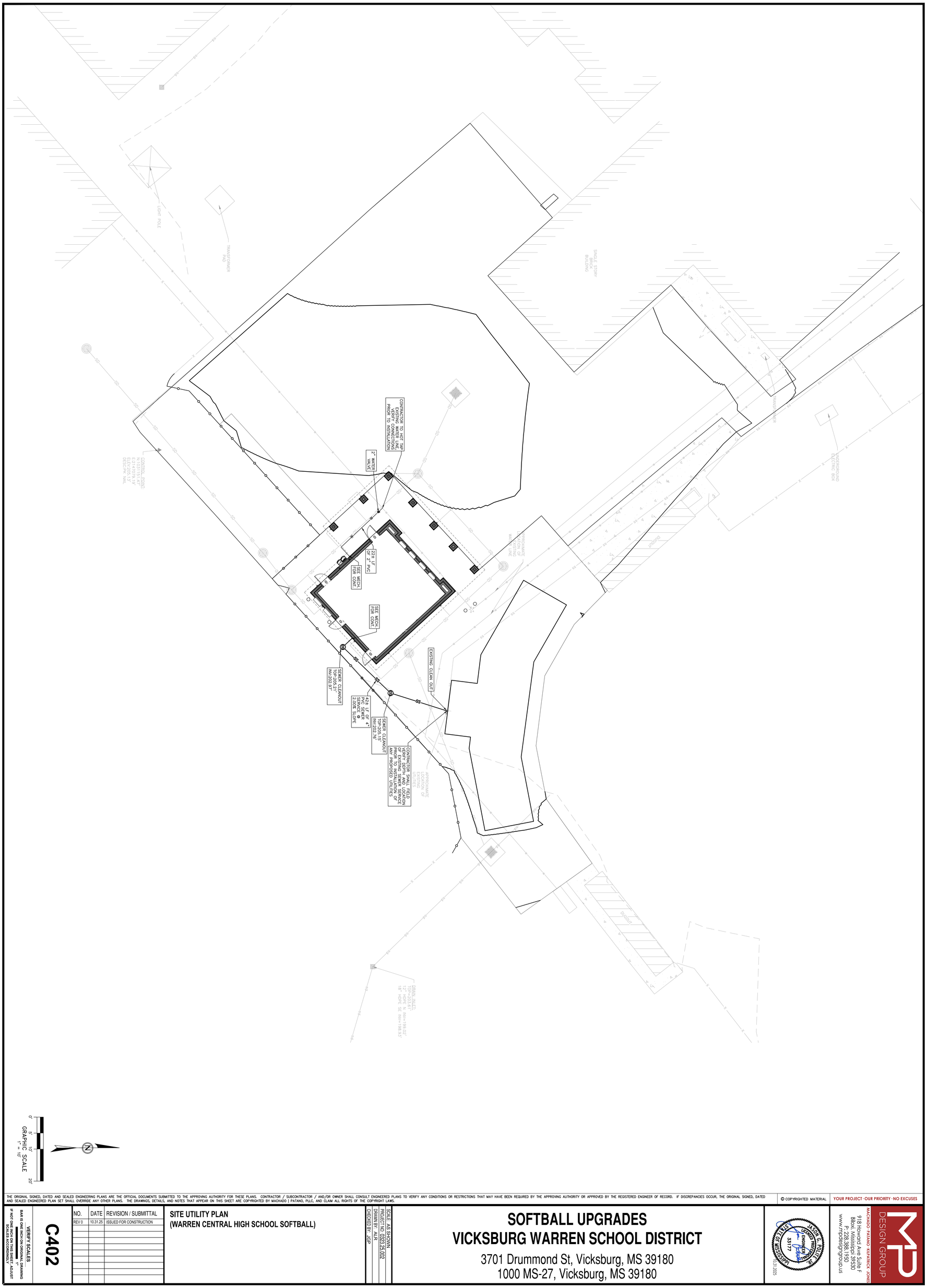
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GRAPHIC SCALE
1" = 10'
0' 5' 10' 20'

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SITE UTILITY PLAN
(WARREN CENTRAL HIGH SCHOOL SOFTBALL)

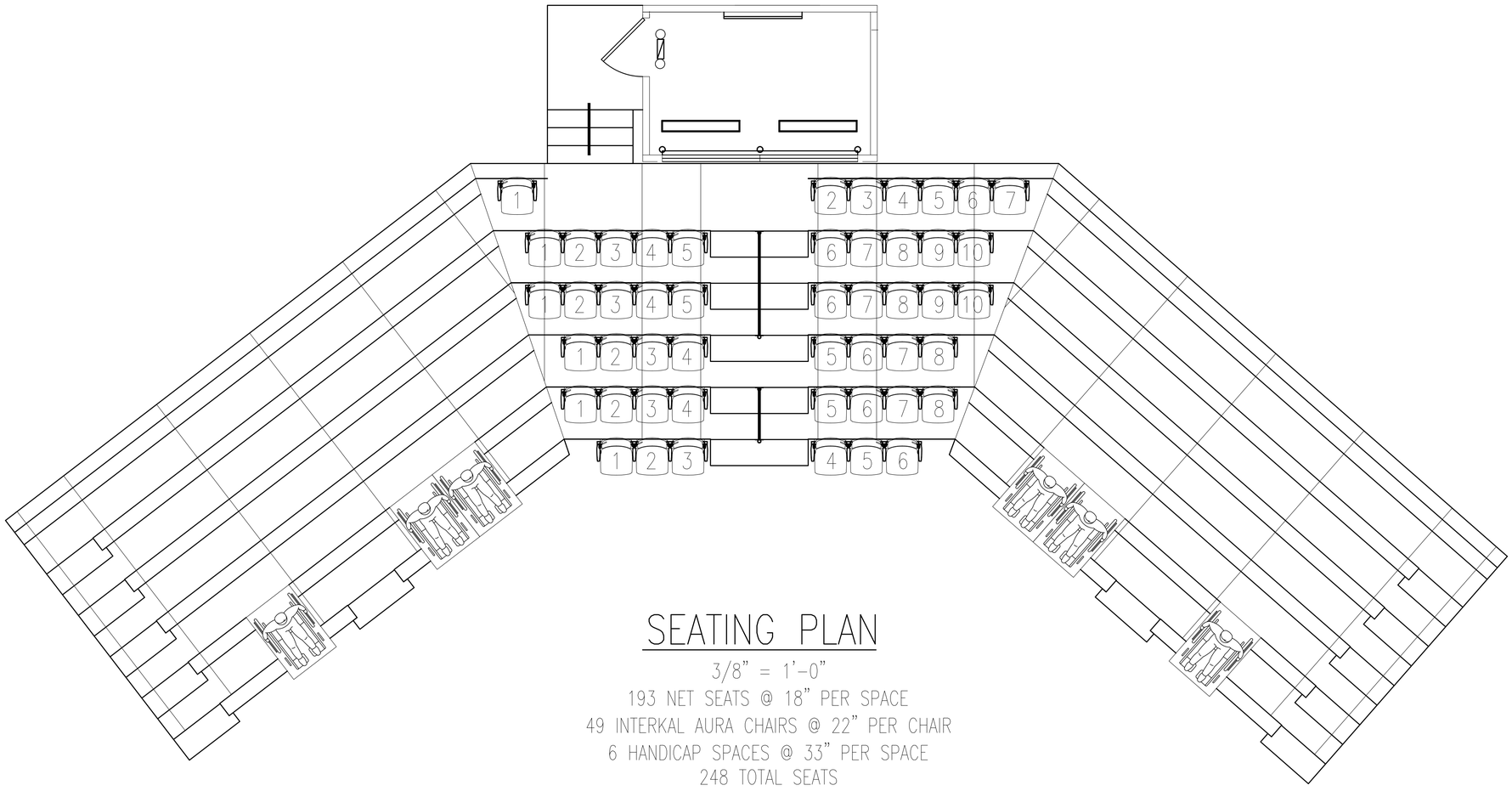
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PROJECT NO. 0323.25.002
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CHECKED BY: JGP

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

JASON G. POLITZ — LICENSED PROFESSIONAL ENGINEER — 33177 — STATE OF MISSISSIPPI — 10.31.2025

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SEATING PLAN

3/8" = 1'-0"

193 NET SEATS @ 18" PER SPACE

49 INTERKAL AURA CHAIRS @ 22" PER CHAIR

6 HANDICAP SPACES @ 33" PER SPACE

248 TOTAL SEATS

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JASON G. POLITE JR. LICENSED PROFESSIONAL ENGINEER 33177 STATE OF MISSISSIPPI
10.31.2025

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE:	AS SHOWN
PROJECT NO:	0323.25.002
DRAWN BY:	ALR
CHECKED BY:	JGP

BLEACHER PLAN (VICKSBURG HIGH SCHOOL)

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JASON E. POLITE JR. — MISSISSIPPI — ENGINEER — 35177 — STATE OF — 10.31.2025

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
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BLEACHER PLAN
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NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION

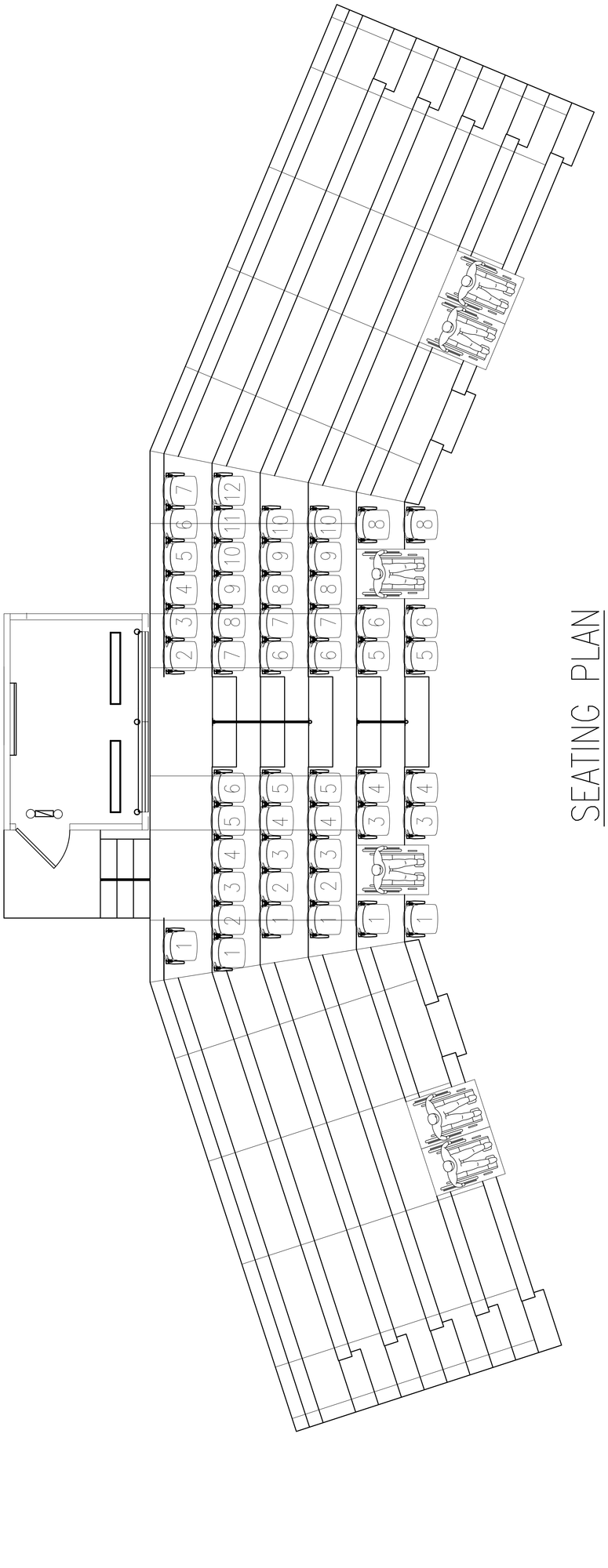
C501

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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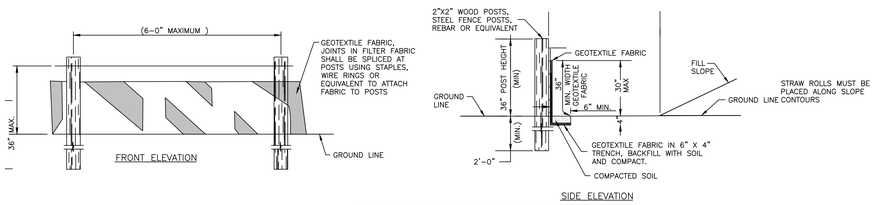
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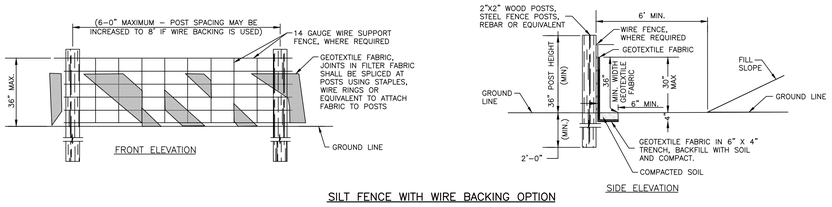
SEATING PLAN
3/8" = 1'-0"

152 NET SEATS @ 18" PER SPACE
51 INTERKAL AURA CHAIRS @ 22" PER CHAIR
6 HANDICAP SPACES @ 33" PER SPACE
209 TOTAL SEATS

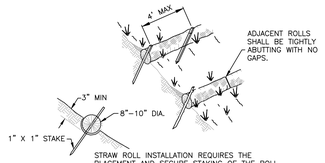
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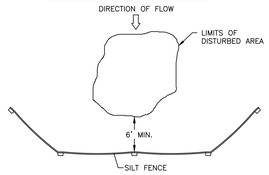
SILT FENCE FABRIC ONLY OPTION



SILT FENCE WITH WIRE BACKING OPTION



STRAW ROLL WATTLE OPTION



PLAN VIEW

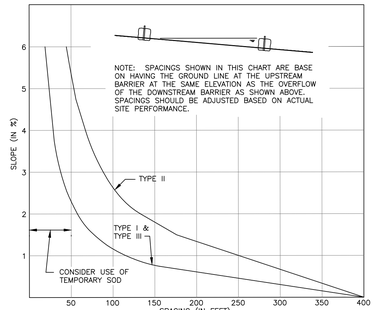


CHART 1 (SPACING FOR SEDIMENT BARRIERS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING EACH AREA THAT SEDIMENTATION BARRIERS ARE REQUIRED AND DETERMINING IF, BASED ON THE ABOVE CHART, ADDITIONAL ROWS OF SEDIMENTATION BARRIERS ARE REQUIRED. THE STORMWATER POLLUTION PREVENTION PLAN IS ONLY A SCHEMATIC DRAWING OF THE BASIC REQUIREMENTS FOR A BEST MANAGEMENT PRACTICES PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ANY ADDITIONAL REQUIREMENTS FOR IMPLEMENTATION OF THIS PLAN.

PERIMETER CONTROL NOTES

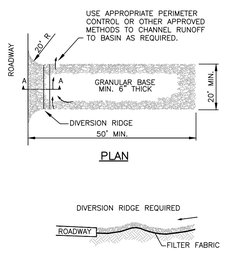
1. FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE.
1. POSTS SHALL BE SPACED A MAXIMUM OF 6' O.C, SPACING MAY BE INCREASED TO 8' IF WIRE BACKING IS USED.
2. POSTS SHALL BE A MINIMUM OF 5'-0" IN LENGTH. IN ADDITION POSTS SHALL BE EITHER 2" x 2" N.D. WOOD POST OR HEAVY DUTY STEEL T-POSTS WITH PROJECTIONS FOR WIRE FASTENING.
3. WIRE SUPPORT FENCE SHALL BE A MINIMUM OF 36" IN HEIGHT, SHALL NOT EXTEND MORE THAN 36" ABOVE THE GROUND, AND SHALL EXTEND 2" INTO THE TRENCH.
4. WIRE FENCE SHALL BE A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM MESH SPACING OF 6". WIRE SHALL BE SECURELY FASTENED TO THE UPSLOPE, PROJECT SIDE OF POSTS USING HEAVY DUTY STAPLES (AT LEAST 1" LONG), TIE WIRES OR HOG RINGS.
5. GEOTEXTILE FABRIC SHALL BE A MINIMUM OF 36" IN HEIGHT, AND SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE.
6. FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE AT THE TOP, MIDDLE, AND BOTTOM OF EACH POST. IN ADDITION THE FABRIC SHALL BE STAPLED OR WIRED TO THE WIRE FENCE APPROXIMATELY ONE HALF (1/2) THE DISTANCE BETWEEN THE POSTS AT THE TOP, MIDDLE AND BOTTOM OF THE WIRE FENCE.
7. GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM OF 3' OVERLAP. EACH FREE END OF THE FABRIC SHALL BE SECURELY TIED TO THE WIRE FENCE AT 6" O.C. VERTICALLY.
8. SILT FENCES SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT. THE ENTIRE LENGTH OF FENCE SHALL BE CHECKED FOR ANY DAMAGES ON A DAILY BASIS AND BEFORE AND AFTER ANY RAINFALL EVENT, FOR ANY DAMAGES. ANY DAMAGES FOUND SHALL BE REMEDIATED BEFORE THE DAY'S END AT NO ADDITIONAL COST TO THE OWNER.
9. SILT FENCES SHALL BE MAINTAINED TO PREVENT ANY MATERIAL FROM MIGRATING FROM THE UPSLOPE SIDE OF THE FENCE. ANY REQUIRED MAINTENANCE OF THE SILT FENCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH RAINFALL EVENT AND WHEN DEPOSITS REACH APPROXIMATELY ONE–HALF (1/2) THE HEIGHT OF THE FENCE.
11. IN ORDER TO PREVENT SEDIMENT LADEN STORM WATER FROM BY–PASSING THE FENCE, IN AREAS WHERE SILT FENCES ARE NOT UTILIZED ON ALL SIDES OF A DISTURBED AREA, THE FENCE SHALL EXTEND BEYOND THE DISTURBED AREA IN J–HOOK SHAPE ON EACH END AS SHOWN IN THE ISOLATED SILT FENCE INSTALLATION PLAN VIEW.

1 PERIMETER CONTROL DETAILS

NOT TO SCALE

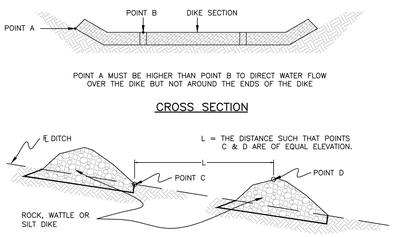
CONSTRUCTION ENTRANCE/EXIT NOTE

1. THE ENTRANCE SHALL BE PROPERLY MAINTAINED FOR THE DURATION OF THE PROJECT TO PREVENT THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHT–OF–WAY. ALL MAINTENANCE AND REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE ENTRANCE SHALL BE CHECKED ON A DAILY BASIS AND BEFORE AND AFTER ANY RAINFALL EVENT FOR ANY DAMAGES. ANY DAMAGES FOUND SHALL BE REMEDIATED BEFORE THE DAYS END AT NO ADDITIONAL COST TO THE OWNER.
3. THE ENTRANCE SHALL BE PROPERLY GRADED TO PREVENT THE FLOW OF SEDIMENT ONTO PUBLIC RIGHT–OF–WAY. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS SHALL BE REMOVED IMMEDIATELY.
4. MEASURES SHALL BE TAKEN TO PREVENT VEHICULAR TRAFFIC FROM BYPASSING THE CONSTRUCTION ENTRANCE DURING INGRESS AND EGRESS.



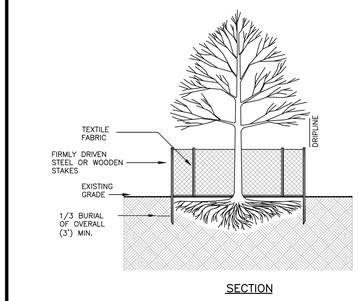
2 CONSTRUCTION ENTRANCE/EXIT DETAIL

NOT TO SCALE



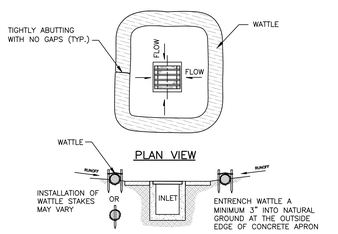
3 CHECK DAM PLACEMENT DETAIL

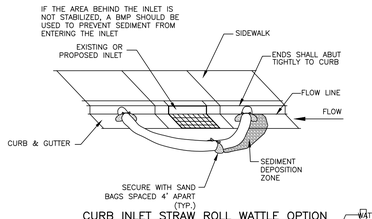
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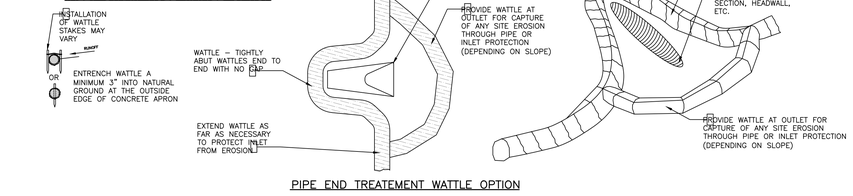


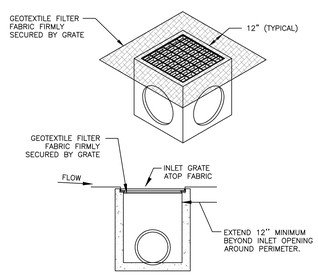
4 TREE PROTECTION PLACEMENT DETAIL

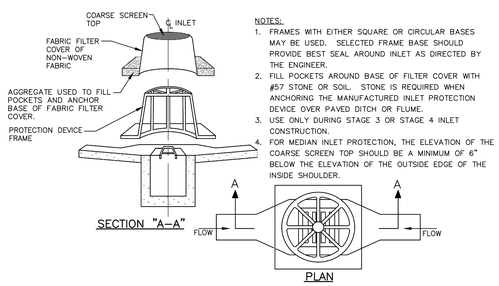
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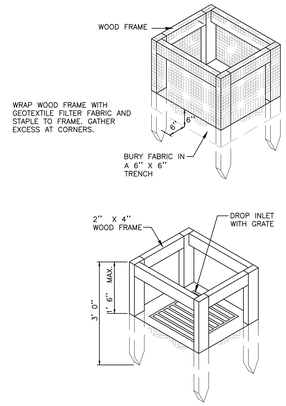










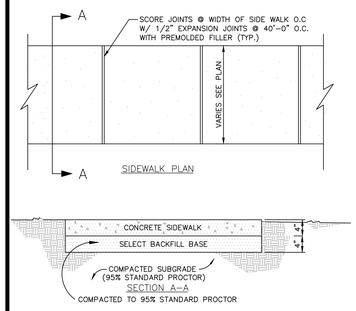


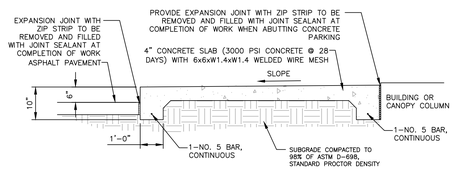
5 TYPICAL INLET PROTECTION DETAILS

NOT TO SCALE

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m:\0323_vicksburg warren school district\0323.25.002 vwsd softball upgrade\02-civil\03-production\03-production drawings\vwsd softball and baseball upgrades site.dwg

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEER IF DISCREPANCIES EXIST BETWEEN THESE PLANS AND ANY OTHER PLANS, DRAWINGS, ETC. AND NOTES THAT APPEAR ON THIS SHEET AS EXPEDITED PLANNING, FILING AND CLAIM OF ERRORS OR OMISSIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS SHALL GOVERN. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEER IF DISCREPANCIES EXIST BETWEEN THESE PLANS AND ANY OTHER PLANS, DRAWINGS, ETC. AND NOTES THAT APPEAR ON THIS SHEET AS EXPEDITED PLANNING, FILING AND CLAIM OF ERRORS OR OMISSIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS SHALL GOVERN. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEER FOR ANY CONDITIONS OR RESTRICT

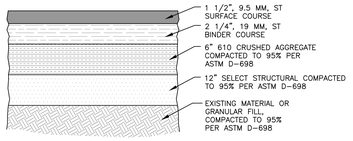




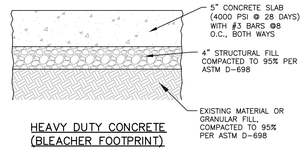
SIDEWALK NOTES

1. ALL JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 330R-08 OR SECTION 3.07 IN THE NRMCA GUIDE SPECIFICATIONS.
2. EXPANSION JOINTS SHALL BE LOCATED WHERE SIDEWALK ABUTS CONCRETE DRIVEWAYS, CURB OR OTHER ADJACENT STRUCTURES.
3. CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF APPROXIMATELY 5 FEET OR AT A SPACING THAT MATCHES THE ADJACENT CURB.
4. JOINTS SHALL BE PROVIDED WITHIN TWELVE (12) HOURS OF FINISHING CONCRETE.
5. CONTRACTION JOINT CUTS SHALL BE 1/4 OF THE PAVEMENT THICKNESS DEEP. THE WIDTH OF THE CUT SHOULD BE APPROXIMATELY 1/8 INCH FOR UNSEALED JOINTS AND 1/4 INCH FOR SEALED JOINTS.
6. FORMED CONTRACTION JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4" RADIUS.
7. SCORED JOINTS SHALL BE 1/4" DEEP AND PLACED AT THE SPACING INDICATED FOR THE WIDTH OF SIDEWALK OR MATCH SCORED JOINTS OF ADJACENT CURB.
8. CONCRETE SHALL BE FINISHED BY MEANS OF A FLOAT, STEEL TROWELLED AND BROOMED WITH A FINE BRUSH IN A TRANSVERSE DIRECTION.
9. CONTRACTOR SHALL INSTALL CONSTRUCTION JOINTS AT THE END OF ONE PLACEMENT AND THE BEGINNING OF A SECOND PLACEMENT.
10. CONTRACTOR SHALL CONTINUE CONTRACTION JOINTS THROUGH CURB AND CURB AND GUTTER TO HELP ELIMINATE SYMPATHY CRACKS.

1 BUILDING SIDEWALK DETAIL — NOT TO SCALE



NEW LIGHT-DUTY ASPHALT PAVEMENT SECTION

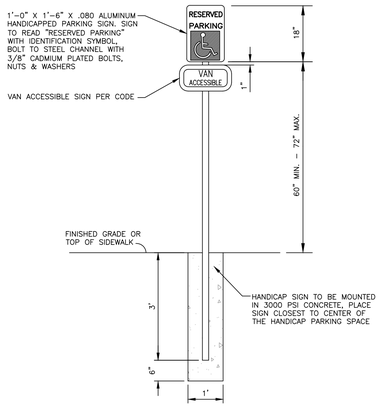


HEAVY DUTY CONCRETE (BLEACHER FOOTPRINT)

2 PAVEMENT SECTION DETAILS — NOT TO SCALE

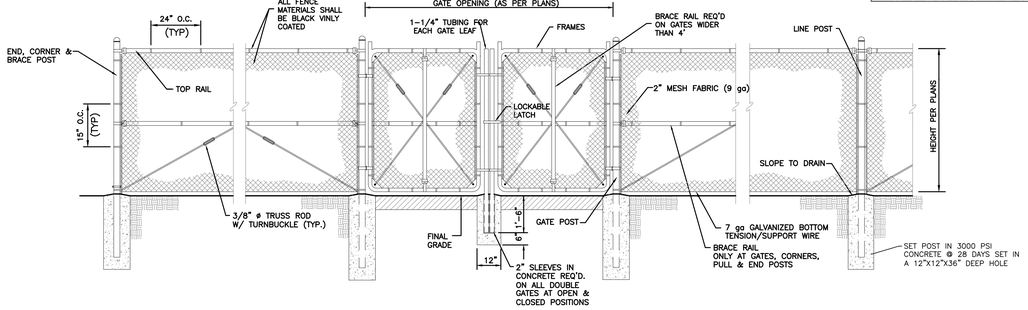
HANDICAP SIGN DETAIL NOTE

HANDICAP PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS.



4 HANDICAP SIGN — NOT TO SCALE

NOTE:
1. MESH FENCE FABRIC SHALL BE CLASS 2B, 8 GAUGE BLACK VINYL COATED.
2. ALL REMAINING FENCING HARDWARE, MATERIAL AND POST SHALL BE POWDER COATED BLACK.



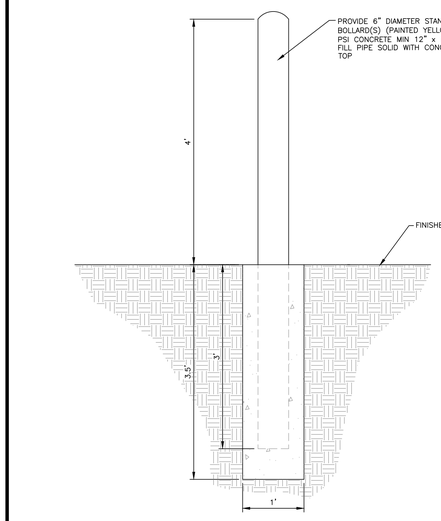
GATE POST SCHEDULE				
GATE OPENING	POST TYPE & MIN. SIZE ROUND SIZE (NPS)	MIN. ANCHOR SIZE HOLE DIA.	HOLE DEPTH	POST DEPTH
UP TO 6' SINGLE UP TO 12' DOUBLE	2 1/2"	16"	48"	42"
OVER 6' TO 13' SINGLE OVER 12' TO 26' DOUBLE	3 1/2"	16"	48"	42"
OVER 13' TO 18' SINGLE OVER 26' TO 36' DOUBLE	6"	16"	48"	42"
OVER 18' SINGLE OVER 36' DOUBLE	8"	24"	48"	42"

FENCE POST & RAIL SCHEDULE					
FENCE HEIGHT	POST TYPES	MINIMUM POST SIZE ROUND NPS (I.D.)	MIN. ANCHOR SIZE HOLE DIA.	HOLE DEPTH	POST DEPTH
LESS THAN 6'	LINE	1 1/2"	7"	28"	22"
LESS THAN 6'	END, CORNER, PULL, & BRACE	2"	10"	32"	28"
6' THRU 12'	LINE	2"	9"	42"	36"
6' THRU 12'	END, CORNER, PULL, & BRACE	2 1/2"	12"	48"	42"
6' THRU 12'	TOP RAILS & HORIZ. BRACE	1 1/4"	N/A	N/A	N/A

MINIMUM GATE FRAME (I.D. NPS)			
GATE OPENING	TOP & BOTTOM MEMBERS	VERT. MEMBERS	HORIZ. & DIAG.
UP TO 6' SINGE UP TO 12' DOUBLE	1 1/4"	1 1/4"	1 1/4"
OVER 6' TO 14' SINGLE OVER 12' TO 28' DOUBLE	2 1/2"	1 1/2"	1 1/4"

* THESE SIZES SHALL BE AS PER GATE MANUFACTURERS RECOMMENDATION OR AS A MINIMUM TO THE SIZES SHOWN IN THIS SCHEDULE, THE PLANS, OR SPECIAL DETAILS AS APPROVED BY THE ENGINEER.
(NPS) = NOMINAL PIPE SIZE
(ID) = INSIDE DIAMETER

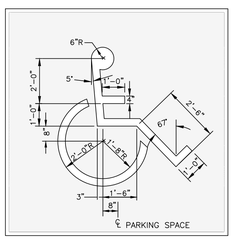
5 TYPICAL CHAIN LINK FENCE DETAILS — NOT TO SCALE



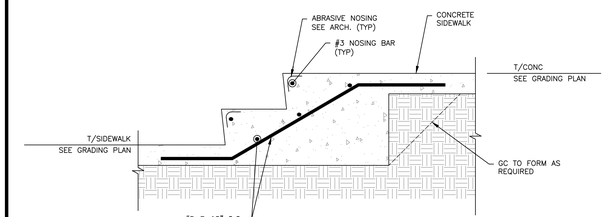
6 TYPICAL STEEL BOLLARD DETAIL — NOT TO SCALE

HANDICAP SYMBOL DETAIL NOTES

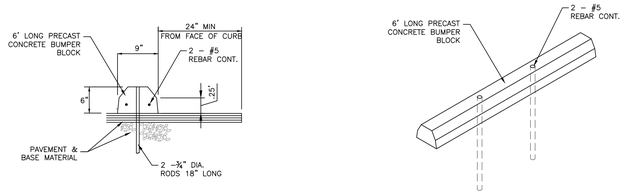
1. PAVEMENT SYMBOL SHALL BE PAINTED WHITE ON A BLUE BACKGROUND.
2. BLUE COLOR SHALL MATCH NO. 15090 IN THE FEDERAL STANDARD 595B AS SPECIFIED IN SECTION 522(B)2.



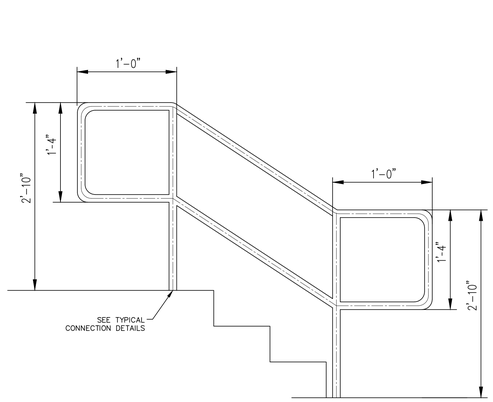
7 INTERNATIONAL HANDICAP SYMBOL DETAIL — NOT TO SCALE



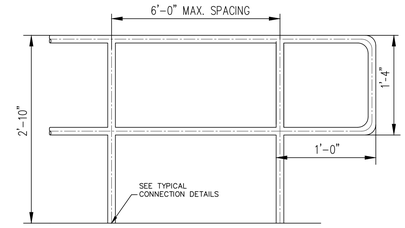
8 CONCRETE STAIRS DETAIL — NOT TO SCALE



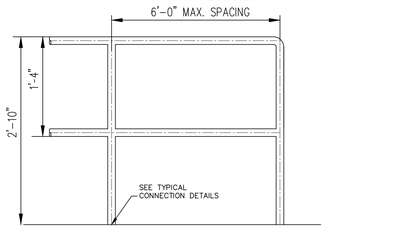
3 PRECAST CONCRETE WHEEL STOP — NOT TO SCALE



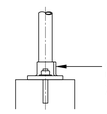
STAIR HANDRAIL DETAIL



SIDEWALK HANDRAIL DETAIL 1



SIDEWALK HANDRAIL DETAIL 2



CONNECTION DETAIL

GENERAL HANDRAIL NOTES AND SPECIFICATIONS:
1. GUARDRAILS AND HANDRAILS SHALL BE THE PRODUCT OF A COMPANY NORMALLY ENGAGED IN THE MANUFACTURE OF PIPE RAILING. RAILING SHALL BE SHOP ASSEMBLED IN LENGTHS NOT TO EXCEED 24 FEET FOR FIELD ERECTION.
2. THE HANDRAIL SHALL BE MADE OF PIPES JOINED TOGETHER WITH COMPONENT FITTINGS. SAMPLES OF ALL COMPONENTS, BASES, TOE PLATE AND PIPE SHALL BE SUBMITTED FOR APPROVAL AT THE REQUEST OF THE ENGINEER. COMPONENTS THAT ARE POP-RIVETED OR GLUED AT THE JOINTS WILL NOT BE ACCEPTABLE. ALL COMPONENTS MUST BE MECHANICALLY FASTENED WITH STAINLESS STEEL HARDWARE.
3. RAILINGS SHALL BE 1 1/2" SCHEDULE 40 ALUMINUM PIPE ALLOY 6105-T5, ASTM-B-429 OR ASTM-B-221. POSTS SHALL BE 1 1/2" SCHEDULE 80 ALUMINUM PIPE OF THE SAME ALLOY. POST SPACING SHALL BE A MAXIMUM OF 6'-0".
4. GUARDRAILS AND HANDRAILS SHALL BE DESIGNED TO WITHSTAND A 200 LB CONCENTRATED LOAD APPLIED IN ANY DIRECTION AND AT ANY POINT ON THE TOP RAIL. GUARDRAILS AND HANDRAILS SHALL ALSO BE DESIGNED TO WITHSTAND A UNIFORM LOAD OF 50 LB/FT APPLIED HORIZONTALLY TO THE TOP RAIL. UNIFORM LOADS ARE NOT TO BE APPLIED SIMULTANEOUSLY WITH THE CONCENTRATED LOADS.
5. PICKETS AND INTERMEDIATE RAILINGS SHALL BE PROVIDED SUCH THAT A 4-INCH DIAMETER SPHERE CANNOT PASS THROUGH ANY OPENING UP TO A HEIGHT OF 34 INCHES. FROM A HEIGHT OF 34 INCHES TO 42 INCHES ABOVE THE ADJACENT WALKING SURFACE, A SPHERE 8 INCHES IN DIAMETER SHALL NOT PASS. THE TRIANGULAR OPENINGS FORMED BY THE RISER, TREAD AND BOTTOM RAIL AT THE OPEN SIDE OF A STAIRWAY SHALL BE OF A SIZE SUCH THAT A SPHERE OF 6 INCHES IN DIAMETER CANNOT PASS THROUGH THE OPENING.
6. PICKETS AND INTERMEDIATE RAILINGS SHALL BE DESIGNED TO WITHSTAND A HORIZONTALLY APPLIED NORMAL LOAD OF 50 LB ON AN AREA NOT TO EXCEED ONE SQUARE FOOT INCLUDING OPENINGS AND SPACE BETWEEN RAILS.
7. THE MANUFACTURER SHALL SUBMIT CALCULATIONS FOR APPROVAL AT THE REQUEST OF THE ENGINEER. TESTING OF BASE CASTINGS OR BASE EXTRUSIONS BY AN INDEPENDENT LAB OR MANUFACTURER'S LAB (IF MANUFACTURER'S LAB MEETS THE REQUIREMENTS OF THE ALUMINUM ASSOCIATION) WILL BE AN ACCEPTABLE SUBSTITUTE FOR CALCULATIONS. CALCULATIONS WILL BE REQUIRED FOR APPROVAL OF ALL OTHER DESIGN ASPECTS.
8. POSTS SHALL NOT INTERRUPT THE CONTINUATION OF THE TOP RAIL AT ANY POINT ALONG THE RAILING, INCLUDING CORNERS AND END TERMINATIONS (OSHA 1910.23). THE TOP SURFACE OF THE TOP RAILING SHALL BE SMOOTH AND SHALL NOT BE INTERRUPTED BY PROJECTED FITTINGS.
9. THE MID-RAIL AT A CORNER RETURN SHALL BE ABLE TO WITHSTAND A 200 LB LOAD WITHOUT LOOSENING. THE MANUFACTURER IS TO DETERMINE THIS DIMENSION FOR THEIR SYSTEM AND PROVIDE PHYSICAL LABORATORY TESTS TO CONFIRM COMPLIANCE.
10. CONCRETE ANCHORS SHALL BE STAINLESS STEEL TYPE 303 OR 304 AND SHALL BE FURNISHED BY THE HANDRAIL MANUFACTURER. THE ANCHOR DESIGN SHALL INCLUDE THE APPROPRIATE REDUCTION FACTORS FOR SPACING AND EDGE DISTANCES IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED DATA.
11. TOE PLATE SHALL CONFORM TO OSHA STANDARDS. TOE PLATE SHALL BE A MINIMUM OF 4" HIGH AND SHALL BE BE AN EXTRUSION THAT ATTACHES TO THE POSTS WITH CLAMPS THAT WILL ALLOW FOR EXPANSION AND CONTRACTION BETWEEN POSTS. TOE PLATES SHALL BE SET 1/4" ABOVE THE WALKING SURFACE. TOE PLATES SHALL BE PROVIDED ON HANDRAILS AS REQUIRED BY OSHA AND/OR AS SHOWN ON DRAWINGS. TOE PLATES SHALL BE SHIPPED LOOSE IN STOCK LENGTHS FOR FIELD INSTALLATION.
12. OPENINGS IN THE RAILING SHALL BE GUARDED BY A SELF-CLOSING GATE (OSHA 1910.23). SAFETY CHAINS SHALL NOT BE USED UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS.
13. FINISH SHALL BE ALUMINUM ASSOCIATION M10-C22-A41 (215-R1). THE PIPE SHALL BE PLASTIC-WRAPPED. THE PLASTIC WRAP IS TO BE REMOVED AFTER ERECTION.
14. ALUMINUM SURFACES IN CONTACT WITH CONCRETE, GROUT OR DISSIMILAR METALS WILL BE PROTECTED WITH A COAT OF BITUMINOUS PAINT, MYLAR ISOLATORS OR OTHER APPROVED MATERIAL.

9 HANDRAIL DETAILS — NOT TO SCALE

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JASON G. POLITE
LICENSED PROFESSIONAL ENGINEER
33177
STATE OF MISSISSIPPI
10.31.2025

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: ALR
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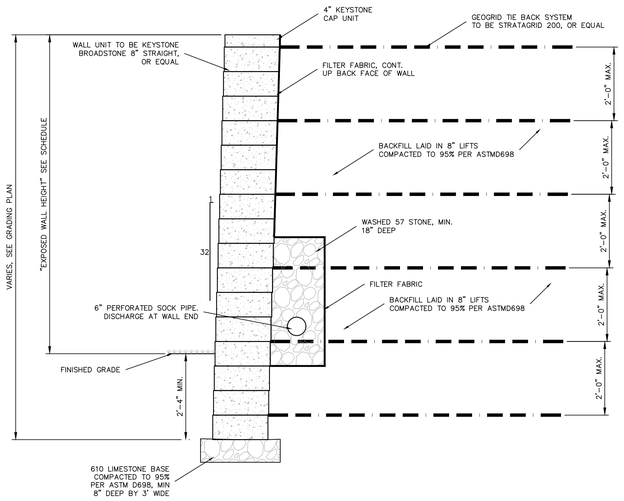
CIVIL SITE DETAILS

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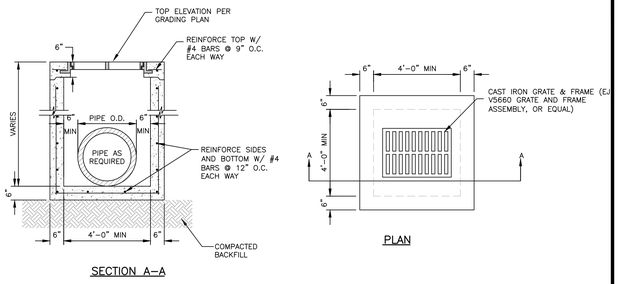
MODULAR BLOCK TIE BACK SCHEDULE			
EXPOSED WALL HEIGHT	TIEBACK TYPE	TIEBACK VERTICAL SPACING	TIEBACK DEPTH
LESS THAN 6'	STRATAGRID 200	2'-0" MAX.	8'-0" MIN.
6' TO 8'	STRATAGRID 200	2'-0" MAX.	9-0" MIN.

1 MODULAR BLOCK RETAINING WALL DETAIL

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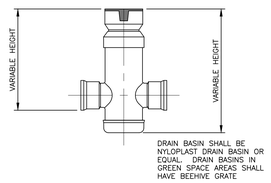
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SECTION A–A

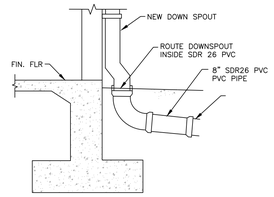
PLAN

1	DRAIN INLET DETAIL	NOT TO SCALE

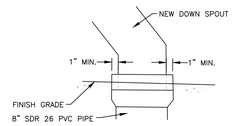


DRAIN BASIN SHALL BE NYLOPLAST DRAIN BASIN OR EQUAL. DRAIN BASINS IN GREEN SPACE AREAS SHALL HAVE BEEHIVE GRATE

2	DRAIN BASIN DETAIL	NOT TO SCALE



NOTE: VERIFY LOCATION OF ROOF DOWN SPOUTS WITH ARCHITECTURAL PLANS AND PLUMBING PLANS

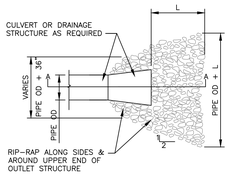


ENLARGED CONNECTION

3	DOWN SPOUT CONNECTION DETAIL	NOT TO SCALE

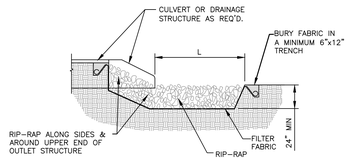
RIP-RAP DETAIL NOTES

1. RIP–RAP IS REQUIRED AT ALL FLARED END SECTION AND HEADWALLS LOCATIONS
2. GEOTEXTILE FILTER FABRIC IS REQUIRED BETWEEN THE RIP–RAP AND SUB–GRADE.
3. IN A WELL–DEFINED CHANNELS, EXTEND THE RIP–RAP APRON UP THE CHANNEL BANKS ABOVE THE TAILWATER ELEVATION.



PLAN

RIP–RAP LENGTH TABLE	
PIPE DIA.	L (FT)
15"	5'
18"	8'
24"	10'
30"	12'
36"	14'
42"	16'
48"	18'
60"	20'
72"	22'



SECTION A–A

3	TYPICAL RIP-RAP OUTFALL DETAIL	NOT TO SCALE

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m:\0323_vicksburg warren school district\0323.25.002 vwsd softball upgrade\02-civil\03-production\03-production drawings\vwsd softball and baseball upgrades site.dwg

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

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1000 MS-27, Vicksburg, MS 39180

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SITE GRADING AND DRAINAGE DETAILS

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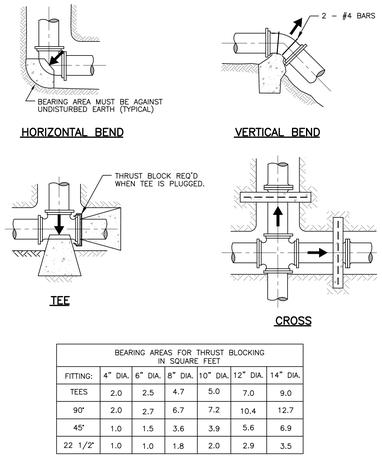
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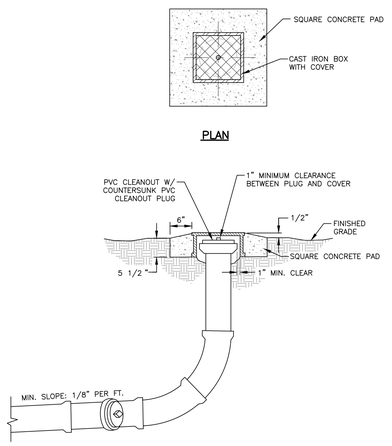
WATER MAIN THRUST BLOCK NOTE

ALL FITTINGS SHALL BE COVERED WITH A GEOTEXTILE FABRIC PRIOR TO POURING CONCRETE THRUST BLOCKING

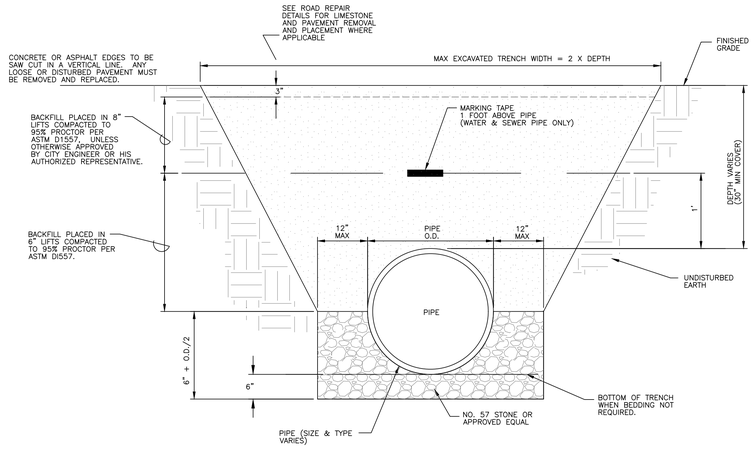


BEARING AREAS FOR THRUST BLOCKING IN SQUARE FEET						
FITTING:	4" DIA.	6" DIA.	8" DIA.	10" DIA.	12" DIA.	14" DIA.
TEES	2.0	2.5	4.7	5.0	7.0	9.0
90°	2.0	2.7	6.7	7.2	10.4	12.7
45°	1.0	1.5	3.6	3.9	5.6	6.9
22 1/2"	1.0	1.0	1.8	2.0	2.9	3.5

1 WATER MAIN THRUST BLOCK DETAILS — NOT TO SCALE



2 SEWER CLEAN OUT DETAIL — NOT TO SCALE



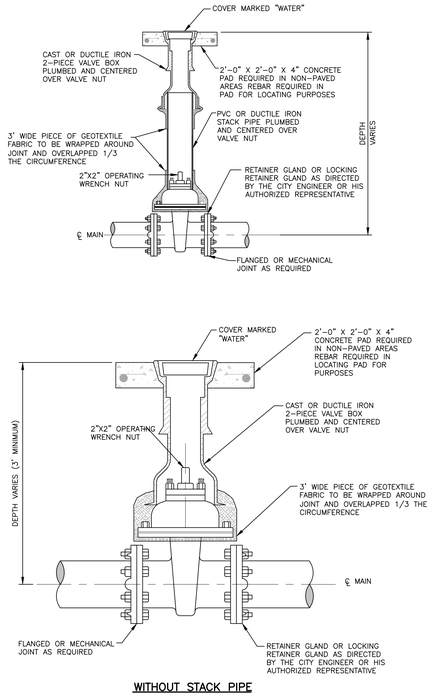
3 TRENCH DETAIL FOR SANITARY SEWER AND NON-PERFORATED STORM DRAIN PIPE — NOT TO SCALE

GENERAL NOTES

1. PIPE BEDDING SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL EARTHWORK SECTION AND ANY OTHER SECTION THAT MAY APPLY OR AS DIRECTED BY THE ENGINEER OF RECORD. TYPE AND LOCATION OF BEDDING SHALL BE DETERMINED BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. BEDDING FOR ARCH PIPE SHALL COVER THE HAUNCHES.
2. BACKFILL MATERIAL SHALL BE PLACED ON BOTH SIDES OF PIPE SIMULTANEOUSLY DURING BACKFILLING OPERATIONS TO PREVENT SHIFTING OR DAMAGE TO PIPE.
3. "MAXIMUM EXCAVATED TRENCH WIDTH" REFERS TO THE MAXIMUM WIDTH THAT WILL BE USED FOR COMPUTATION OF APPLICABLE PAY ITEMS FOR BORROW FOR BACKFILL, LIMESTONE, AND PAVING. PIPE BEDDING SHALL BE PAID BASED ON A WIDTH OF TWO FEET PLUS THE OUTSIDE DIAMETER FOR THE PIPE (O.D. OF PIPE + 2 FEET) AS SHOWN ON THE DETAIL. THE CONTRACTOR MAY EXCAVATE A WIDER TRENCH AT HIS OWN EXPENSE AS LONG AS TRENCH REMAINS WITHIN THE PROJECT LIMITS, PROPERTY OR EASEMENT AND THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE APPROVES THE DIMENSIONS OF THE WIDER TRENCH.
4. IN THE CASE OF OVERLAPPING UTILITY TRENCHES, THE CONTRACTOR SHALL ONLY BE PAID ONCE FOR ITEMS SUCH AS LIMESTONE AND PAVING. ADDITIONALLY ANY MARKING TAPE ABOVE SEWER PIPE THAT IS DISTURBED OR DAMAGED BY OVERLAPPING TRENCHES SHALL BE PROPERLY REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. INSTALLATION AND COVER REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS.
6. TOP OF PIPE SHALL BE BELOW ROAD BASE IN PAVED AREAS. IF EXISTING MATERIAL IS USED FOR BACKFILL, THERE SHALL BE NO ADDITIONAL PAYMENT FOR EXCAVATION AND BACKFILL. IF EXISTING MATERIAL IS UNSUITABLE FOR BACKFILL, BORROW MATERIAL SHALL BE USED. DISPOSAL OF UNSUITABLE MATERIAL SHALL BE PAID FOR AT THE UNIT PRICE BID FOR EXCESS EXCAVATION. APPROVED PLACEMENT OF BORROW SHALL BE PAID FOR AT THE UNIT PRICE BID FOR BORROW MATERIAL.

STORM DRAIN PIPE PLACEMENT NOTES

1. STORM DRAIN PIPE SHALL BE CONCRETE, RIBBED PVC OR HIGH DENSITY POLYETHYLENE IN ACCORDANCE WITH THE SPECIFICATIONS OR AS SHOWN ON THE PLANS. LOCATION FOR INSTALLATION OF TYPE OF PIPE SHALL BE AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. ONLY CONCRETE STORM DRAIN PIPE SHALL BE INSTALLED UNDER PAVED AREAS UNLESS SHOWN DIFFERENTLY ON THE CONSTRUCTION PLANS.
2. ALL STORM DRAIN JOINTS SHALL BE WRAPPED WITH GEOTEXTILE FABRIC. FABRIC SHALL BE THREE (3') FEET WIDE (CENTERED OVER JOINT) AND LONG ENOUGH TO WRAP AROUND THE PIPE JOINT AND OVERLAP 1/3 THE CIRCUMFERENCE. THE COST OF FABRIC SHALL BE ABSORBED IN THE UNIT PRICE BID FOR STORM DRAIN PIPE AND SHALL NOT BE MEASURED FOR SEPARATE PAYMENT.
3. REFER TO OTHER DETAILS FOR DRAINAGE STRUCTURES, CONCRETE PIPE REPAIR METHODS, PIPE END TREATMENTS, & GRATES.



WITHOUT STACK PIPE

4 IN-LINE WATER VALVE AND VALVE BOX WITH AND WITHOUT STAKE PIPE DETAIL — NOT TO SCALE

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JASON G. POLITE — LICENSED PROFESSIONAL ENGINEER — 33177 — STATE OF MISSISSIPPI — 10.31.2025

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GENERAL CONDITIONS

1. MASONRY WALLS, STRUCTURAL STEEL, AND TIMBER TRUSSES ARE NON-SELF-SUPPORTING AND ARE DESIGNED FOR A COMPLETED CONDITION ONLY. A COMPLETED STRUCTURE IS REQUIRED TO PROVIDE LATERAL STABILITY AND RESISTANCE TO WIND AND SEISMIC FORCES. CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING REQUIRED TO MAINTAIN STABILITY OF STRUCTURAL SYSTEM.

REINFORCING STEEL

1. MINIMUM COVER (OR CONCRETE PROTECTION) OF ALL CONCRETE REINFORCEMENT MEASURED FROM THE FINISHED CONCRETE FACE TO THE SOIL SHALL BE THREE (3) INCHES FOR FOOTINGS AND GRADE BEAMS (BOTTOM AND SIDE) AND THREE (3) INCHES BOTTOM AND SIDE FOR SLAB ON GRADE.
2. ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE A.C.I. MANUAL OF PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, A.C.I. 315.
3. REINFORCING STEEL SHALL BE PLACED IAW CRSI "PLACING REINFORCING BARS", LATEST EDITION. REINFORCING BARS SHALL BE ASTM A615 GRADE 60.
4. DEFORMED WELDED WIRE FABRIC (WWF) SHALL CONFORM WITH A185.
5. THE LAP SPLICE DEVELOPMENT LENGTH OF STEEL REINFORCEMENT SHALL BE ACHIEVED AND MADE TO DEVELOP FULL STRENGTH OF THE REINFORCEMENT STEEL. WHERE SPLICES IN REINFORCING ARE NECESSARY, REINFORCING SHALL BE LAPPED 48 BAR DIAMETERS IN INCHES (MINIMUM). ALL BAR SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES, UNLESS NOTED OTHERWISE. SPLICES SHALL CONFORM TO A.C.I. 318, LATEST REVISION.
6. REINFORCEMENT STEEL SHALL BE STORED IN SUCH MANNER TO PREVENT EXPOSURE TO THE ELEMENTS AND SHALL BE FREE OF RUST BEFORE PLACEMENT. REINFORCEMENT STEEL SHALL NOT BE WELDED.
7. ALL FOOTING REINFORCEMENT SHALL BE HELD SECURELY FROM THE GROUND USING REBAR CHAIRS OR OTHER APPROVED METHODS. CONCRETE BLOCK OR BROKEN TILE MAY BE USED.
8. ALL TIE REINFORCEMENT SHALL BE NO. 3 UNLESS NOTED OTHERWISE.
9. OUTER BAR OF FOUNDATION REINFORCEMENTS SHALL BE CONTINUOUS AROUND CORNERS OR BY BENDING THE BAR, MINIMUM BAR LAP SHALL BE 25 INCHES.
10. PROVIDE ONE (1) #4 HOOP WITH 8' LAP IN SLAB AROUND ALL FLOOR DRAINS.

SUBMITTALS

1. REVIEW OF SHOP DRAWINGS AND OTHER SUBMITTALS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. ALL SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR PRIOR TO SUBMITTAL.
2. SUBMIT ALL SHOPS DRAWINGS & OTHER SUBMITTALS IN PDF FORMAT OR HARD COPY. IF HARD COPY IS SUBMITTED, PROVIDE 3 SETS ONLY. ALL OTHERS WILL BE RETURNED UNMARKED. MP DESIGN GROUP, PLLC, WILL RETURN 1 MARKED SET TO THE CONTRACTOR.
3. SHOP DRAWINGS: THE CONTRACTOR SHALL SUBMIT FOR STRUCTURAL ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS. ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
   a. STRUCTURAL STEEL
   b. CONCRETE REINFORCING STEEL
   c. PRE-ENGINEERED TIMBER TRUSSES (*)
   d. CONCRETE MIX DESIGN

FOUNDATIONS AND SLABS ON GRADE

1. PREPARE AREA BY STRIPPING OF ALL GRAVEL, VEGETATION, TOPSOIL AND OTHER ORGANIC MATERIAL, AND DEBRIS. REMOVE EXISTING STRUCTURES, FOUNDATIONS, CONCRETE, ETC. IN WAY OF FOUNDATIONS. AFTER MAKING REQUIRED CUTS/EXCAVATIONS, COMPACT EXPOSED SUBGRADE PER GEOTECHNICAL RECOMMENDATIONS. ANY UNSTABLE OR SOFT AREAS SHALL BE OVER-EXCAVATED AND STABILIZED.
2. THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING COMPACTION/PROOFROLLING ACTIVITIES AND SHALL INSPECT SUBGRADE PRIOR TO PLACEMENT OF ANY FILL MATERIAL.
3. COMPACTED FILL PLACEMENT SHALL BE INSPECTED CONTINUOUSLY BY THE CONTRACTORS SELECTED (OWNER APPROVED) INDEPENDENT TESTING AGENCY.
4. NOTIFY THE STRUCTURAL ENGINEER OF RECORD IMMEDIATELY OF ANY ENCOUNTERED BASE MATERIAL OF QUESTIONABLE BEARING CAPACITY.
5. ALL SELECT FILL MATERIAL UNDER STRUCTURES SHALL CONFORM WITH GEOTECHNICAL REPORT REQUIREMENTS, UNLESS NOTED OTHERWISE IN PLANS. MATERIAL SHALL BE PLACED IN MAXIMUM 8" LOOSE LIFTS AND COMPACTED TO 95% STANDARD PROCTOR PER ASTM D698. MOISTURE AND DENSITY SHALL BE FIELD TESTED PRIOR TO PLACEMENT OF ADDITIONAL FILL.
6. PRIOR TO PLACEMENT OF CONCRETE, PREPARED AREAS SHALL BE INSPECTED AND APPROVED BY THE CONTRACTORS SELECTED (OWNER APPROVED) INDEPENDENT TESTING AGENCY AND THE STRUCTURAL ENGINEER OF RECORD.
7. PROVIDE A POLYETHYLENE FILM VAPOR BARRIER (SEE SPECS FOR THICKNESS) BELOW INTERIOR SLABS-ON-GRADES UNLESS NOTED OTHERWISE.
8. CONCRETE MIX SHALL BE DESIGNED TO DEVELOP THE FOLLOWING STRENGTH MEASURED AT 28 DAYS: (SEE MATERIAL SPECIFICATIONS THIS SHEET)
9. CONTRACTOR SHALL VERIFY ALL IN SLAB FIXTURE DIMENSIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL PLANS. ALL SLOTS, SLEEVES AND OTHER EMBEDDED ITEMS SHALL BE SET BEFORE CONCRETE IS PLACED.
10. ALL FOUNDATION PENETRATIONS SHALL BE THROUGH THICKENED SLAB EDGE OR 6" CLEAR BELOW FOOTING. CONDUIT SHALL NOT BE PLACED WITHIN THE SLAB ON GRADE. CONDUIT SHALL BE INSTALLED BELOW THE SLAB ON GRADE. PIPES AND DUCTS SHALL NOT EXCEED ONE-THIRD THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
11. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIAL FINISHES, INCLUDING BUT NOT LIMITED TO MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATIONS OF FLOOR FINISHES AND SLAB DEPRESSIONS.
12. ALL HONEY-COMBING, SPALLS, CRACKS, ETC. SHALL BE REPAIRED. EXTENT OF DEFECTIVE AREA SHALL BE DETERMINED BY THE STRUCTURAL ENGINEER.
13. CONTROL JOINTS SHALL BE ADDED IN CONCRETE SLABS ON GRADE AT A RECOMMENDED SPACING AS INDICATED ON PLANS.
14. CONSTRUCTION JOINTS SHALL BE ADDED AS REQUIRED TO PREVENT THE FORMATION OF CONCRETE COLD JOINTS DURING PLACEMENT OF CONCRETE. CONSTRUCTION JOINTS SHALL BE INSTALLED IN LOCATIONS WHERE THE CONCRETE PLACEMENT OPERATION IS SCHEDULED FOR SEVERAL SEPARATE PLACEMENTS OR WHEREVER THE CONCRETE PLACEMENT IS DELAYED A SUFFICIENT AMOUNT OF TIME TO FORM A CONCRETE
15. UNDER NO CIRCUMSTANCES WILL DIGGING, TUNNELING OR TRENCHING BE ALLOWED AT OR NEAR ANY CONCRETE STRUCTURE WHICH MIGHT ACT TO UNDERMINE THE STRUCTURE.
16. ALL DETAILS SHOWN ARE TYPICAL, SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS.
17. COORDINATE ALL STRUCTURAL PLANS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL PLANS.

CONCRETE MASONRY

1. MASONRY CONSTRUCTION SHALL COMPLY WITH ACI 530; BUILDING CODE REQUIREMENTS & SPECIFICATIONS FOR MASONRY STRUCTURES.
2. ALL CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C-90, TYPE II, AND HAVE A MINIMUM ULTIMATE COMPRESSIVE PRISM STRENGTH (F'm) OF 1,900 PSI FOR THE MASONRY ASSEMBLAGE.
3. ALL MORTAR SHALL BY TYPE S CONFORMING TO ASTM C270 WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI.
4. CMU WALLS SHALL BE GROUTED IN 4'-0" LIFTS, MAXIMUM.
5. ALL CMU BOND BEAMS, LINTELS, AND CELLS WHICH CONTAIN REINFORCING STEEL SHALL BE FILLED SOLID WITH 2000 PSI CONCRETE GROUT (UNLESS NOTED OTHERWISE).
6. VERTICAL CELLS TO BE FILLED SHALL HAVE A VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR UNOBSTRUCTED CONTINUOUS VERTICAL CELL NOT LESS THAN 2" X 3" IN PLAN DIMENSIONS.
7. A CONTINUOUS BOND BEAM WITH (2) #5 BARS SHALL BE PROVIDED NEAR THE TOP AND BOTTOM OF ALL CMU WALLS AND AT INTERVALS OF 4'-0" VERTICALLY, UNLESS NOTED OTHERWISE IN PLANS. ALL BOND BEAMS SHALL BE REINFORCED WITH (2) #5 BARS UNLESS NOTED OTHERWISE IN PLANS.
8. FOUNDATION DOWELS SHALL EXTEND INTO FOUNDATION CONCRETE. SPLICES LENGTHS FOR WALL REINFORCEMENT SHALL BE DEVELOPED A MINIMUM OF 48". BEND DIAMETER FOR REINFORCING BARS SHALL BE A MINIMUM OF 6 x BAR DIA. WITH A MINIMUM EXTENSION OF 7.5", AND HOOK EXTENSIONS SHALL BE A MINIMUM OF 13 x BAR DIA. THERE SHALL BE A FOUNDATION DOWEL FOR EACH VERTICAL WALL REINFORCEMENT.
9. HORIZONTAL REINFORCING SHALL BE KNOCKOUT BOND BEAMS WITH (2) #5 CONTINUOUS UNLESS NOTED OTHERWISE. CORNER BARS SHALL BE INSTALLED IN BOND BEAMS.
10. CORNER BARS SHALL BE PROVIDED FOR ALL HORIZONTAL REINFORCEMENT, WITH A MINIMUM LEG LENGTH OF 2'-0" OR 48" x BAR DIA., WHICHEVER IS GREATER.
11. NORMAL VERTICAL WALL REINFORCING SHALL EXTEND CONTINUOUSLY FROM THE TOP OF THE FOUNDATION TO EMBED AT LEAST 6" INTO THE TOP OF WALL BOND BEAM, THE VERTICAL SLOTS IN KNOCKOUT BOND BEAMS SHALL BE AT LEAST 3" INTO THE HEIGHT OF AN 8" HIGH BLOCK UNIT. AN ADDITIONAL #4 HOOKED DOWEL SHALL BE INSTALLED IN THE TOP OF ALL MASONRY WALLS AT EACH VERTICAL WALL CELL CONTAINING VERTICAL REINFORCING. DOWELS SHALL PROJECT 24" INTO THE WALL AND HOOK 6" INTO THE WALL TOP BOND BEAM.
12. AN ADDITIONAL VERTICAL BAR, SAME SIZE AND LENGTH AS THE NORMAL VERTICAL REINFORCING BAR SHALL BE PLACED:
    a. AS SHOWN ON DRAWINGS.
    b. AT A CORNER INTERSECTION OF TWO WALLS.
    c. AT "T" INTERSECTIONS OF TWO WALLS.
    d. AT EACH SIDE ON CONTROL JOINTS.
    e. AT END OF DISCONTINUOUS WALLS AND AT OPENINGS.
13. CORNER BLOCKS SHALL BE INTERWOVEN BETWEEN TWO WALLS.
14. NON-LOAD BEARING WALLS:
    a. PROVIDE CONTINUOUS BOND BEAMS WITH (2) #5 BARS NEAR THE TOP AND BOTTOM OF CMU WALLS AND AT INTERVALS OF 4'-0" VERTICALLY, UNLESS NOTED OTHERWISE IN PLANS.
16. EVERY PIER OR WALL SECTION WITH A WIDTH OF 3'-0" OR LESS SHALL HAVE HORIZONTAL SHEAR STEEL IN THE FORM OF TIES.
17. ALL BOLTS, ANCHORS, REINFORCEMENT AND EMBEDDED ITEMS SHALL BE GROUTED IN PLACE.
18. CONTINUE REINFORCEMENT THROUGH MASONRY CONTROL JOINTS FOR BOND BEAMS AT FLOOR AND TOP OF WALL.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC360 "SPECIFICATION FOR STRUCTURAL STEEL". SEISMIC DESIGN OF STRUCTURAL STEEL STRUCTURES SHALL CONFORM TO AISC 341.
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:

A.	ANCHOR RODS	F1554, GRADE 36
B.	HIGH STRENGTH STRUCTURAL BOLTS	A325-N U.N.O.
C.	STRUCTURAL SHAPES (W)	A992
D.	STRUCTURAL PLATES, SHAPES (EXCEPT W)	A36, GRADE 36
E.	STRUCTURAL TUBING (HSS)	A500 GRADE B
F.	STRUCTURAL ANGLES	A36

3. ALL WELDING SHALL CONFORM TO THE SPECIFICATIONS OF THE AMERICAN WELDING SOCIETY. WELDING ELECTRODES SHALL BE E-70 SERIES. WELDING SHALL BE DONE BY A CERTIFIED WELDER.
4. WELDING ELECTRODES SHALL BE E6022 WHEN METAL DECK IS WELDED.
5. HIGH STRENGTH BOLTS SHALL BE 3/4" DIAMETER (U.N.O.) CONFORMING TO ASTM A-325. CONNECTIONS SHALL BE DESIGNED AS BEARING TYPE WITH THREADS IN SHEAR PLANE. HOLES SHALL BE 1/16" LARGER THAN BOLT SIZE (U.N.O.)
6. BEARING ENDS OF ALL COLUMNS SHALL BE SQUARE CUT.
7. NO OPENINGS SHALL BE CUT IN STRUCTURAL MEMBERS UNLESS SHOWN ON THE DRAWINGS.
8. ALL COLUMN BASE PLATES SHALL BE ON 1 1/2" NON-SHRINK NON-METALLIC GROUT.

DESIGN CRITERIA

WIND DESIGN DATA (PER ASCE 7-16):
- -WIND SPEED, V = 108 MPH
- -BUILDING RISK CATEGORY: II
- -MEAN ROOF HEIGHT: < 25 FT
- -ROOF PITCH: 1:12

GROUND SNOW LOAD (Pg): 0 PSF
FLAT ROOF SNOW LOAD (Pf): 0 PSF
SLOPED ROOF SNOW LOAD (Ps): 0 PSF
SLOPE FACTOR (Cs): 1.0
SNOW EXPOSURE FACTOR (Ce): 1.0
SNOW LOAD IMPORTANCE FACTOR (Is): 1.0
THERMAL FACTOR (Ct): 1.0

DRIFT LOAD:
DRIFT LOAD: 0 PSF
DRIFT LENGTH: 0 FT

PRESUMPTIVE BEARING PRESSURE OF 1500 PSF HAS BEEN UTILIZED IN DESIGN OF THE FOUNDATIONS.

SEISMIC DESIGN:
- -RISK CATEGORY:II
- -S_s = 0.093
- -S_1 = 0.058
- -S_{MS} = 0.148
- -S_{M1} = 0.139
- -S_{DS} = 0.099
- -S_{D1} = 0.093
- -SEISMIC IMPORTANCE FACTOR, Ie =1.00
- -SEISMIC DESIGN CATEGORY: B
- -SITE CLASS: D
- -METHOD OF ANALYSIS: EQUIVALENT LATERAL FORCE (ELF)
- -COEFFICIENT OF RISK (0.2s): CR_s = 0.952
- -COEFFICIENT OF RISK (1.0s): CR_1 = 0.952
- -SEISMIC BASE SHEAR = LESS THAN 4 KIPS (DOES NOT CONTROL DESIGN)
- -SEISMIC FORCE RESISTING SYSTEM

ROOF LIVE LOAD: 20 PSF
ROOF DEAD LOAD: 18 PSF
COLLATERAL LOAD: 5 PSF MINIMUM

PRE-ENGINEERED TIMBER TRUSSES

1. All TRUSSES AND RAFTERS SHALL BE DESIGNED BY THE TRUSS SYSTEM ENGINEER. THE SYSTEM SHALL BE DESIGNED AND FABRICATED BY MANUFACTURER TO FUNCTION AS A SYSTEM INCLUDING All TEMPORARY AND PERMANENT BRACING REQUIRED AND SPECIFIED.
2. TRUSSES SHALL BE FABRICATED WITH STANDARD CAMBER, AND ERECTED AND BRACED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. TRUSS SYSTEM ENGINEER SHALL SUBMIT ERECTION AND SHOP DRAWINGS SHOWING LOCATIONS, BRIDGING, CONNECTIONS AND DETAILS, SPECIAL AND EXTENDED ENDS. ACCESSORIES REQUIRED FOR THE INSTALLATION OF TRUSS SYSTEM. THE SPECIALTY ENGINEER SHALL INCLUDE COMPONENT DETAILS AND LAYOUT DRAWINGS SHOWING DESIGN LOADING, MEMBER SIZES, BRACING, ANCHORAGE, CONNECTIONS, AND OTHER NECESSARY FABRICATION AND ERECTION INFORMATION. THE SPECIALTY ENGINEER SHALL BE REGISTERED IN THE STATE OF MISSISSIPPI AND SHALL SIGN AND SEAL DOCUMENTS.
4. TOP CHORDS SHALL BE MINIMUM 2X6. TOP AND BOTTOM CHORDS SHALL BE OF THE CONFIGURATIONS INDICATED ON THE DRAWINGS. ARRANGEMENT OF WEB MEMBERS TO BE AT THE DISCRETION OF THE DESIGN ENGINEER. AT TRUSS JOINTS, CENTERLINES OF MEMBERS SHALL INTERSECT AT A COMMON POINT OR ECCENTRICITIES SHALL BE CONSIDERED IN THE DESIGN.
5. TRUSS BEARING SHALL BE DESIGNED TO TRANSFER 350 POUNDS/FOOT LATERAL FORCE FROM THE ROOF DIAPHRAGM INTO THE WALLS PENDICULAR TO TRUSSES. TEMPORARY AND PERMANENT BRACING REQUIRED FOR THIS CAPACITY SHALL BE DESIGNED, DETAILED, AND PROVIDED BY THE TRUSS SYSTEM MANUFACTURER.
6. DIAGONAL BRIDGING SHALL BE DESIGNED FOR L/R LESS THAN OR EQUAL TO 200.
7. TRUSS BRIDGING SHALL NOT BE USED TO SUPPORT EQUIPMENT, PIPING, CONDUITS, DUCTWORK, ETC.
8. TRUSS ANCHORAGES, AS A RESULT OF ACTUAL TRUSS CALCULATIONS, TO TOP PLATE OR SUPPORTS SHALL BE DESIGNED AND SPECIFIED BY THE TRUSS SYSTEM ENGINEER. ANCHORAGES AND BRACING SPECIFIED BY TRUSS SYSTEM ENGINEER MUST MEET THE REQUIREMENT FOR LATERAL CAPACITY PREVIOUSLY INDICATED IN THESE NOTES.
9. THE TRUSS SYSTEM ENGINEER SHALL DESIGN AND SPECIFY All TRUSS TO TRUSS CONNECTIONS.
10. PROVIDE 12" WIDE x 14 GAGE CONTINUOUS PLATES AT All HIPS AND VALLEYS.
11. JOINTS AND CONNECTIONS SHALL BE MADE WITH SCREWS OR BOLTS.
12. TRUSS SYSTEM ENGINEER SHALL PROVIDE CHORD MEMBERS OF SUFFICIENT MATERIAL THICKNESS TO ENSURE ROOF SHEATHING ATTACHMENTS CAN DEVELOP THE REQUIRED UPLIFT LOADS. TOP CHORD SHALL BE 2X6 MINIMUM.
13. TRUSS SYSTEM ENGINEER SHALL DESIGN TOP CHORD EXTENSIONS AS INDICATED. TRUSS SYSTEM ENGINEER SHALL DESIGN RAFTERS AS INDICATED. PROVIDE CLOSURE, BRIDGING, ANCHORAGE, ETC AND All OTHER REQUIREMENTS SPECIFIED FOR TRUSSES.

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STATE OF MISSISSIPPI
10.31.25

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3701 Drummond St, Vicksburg, MS 39180
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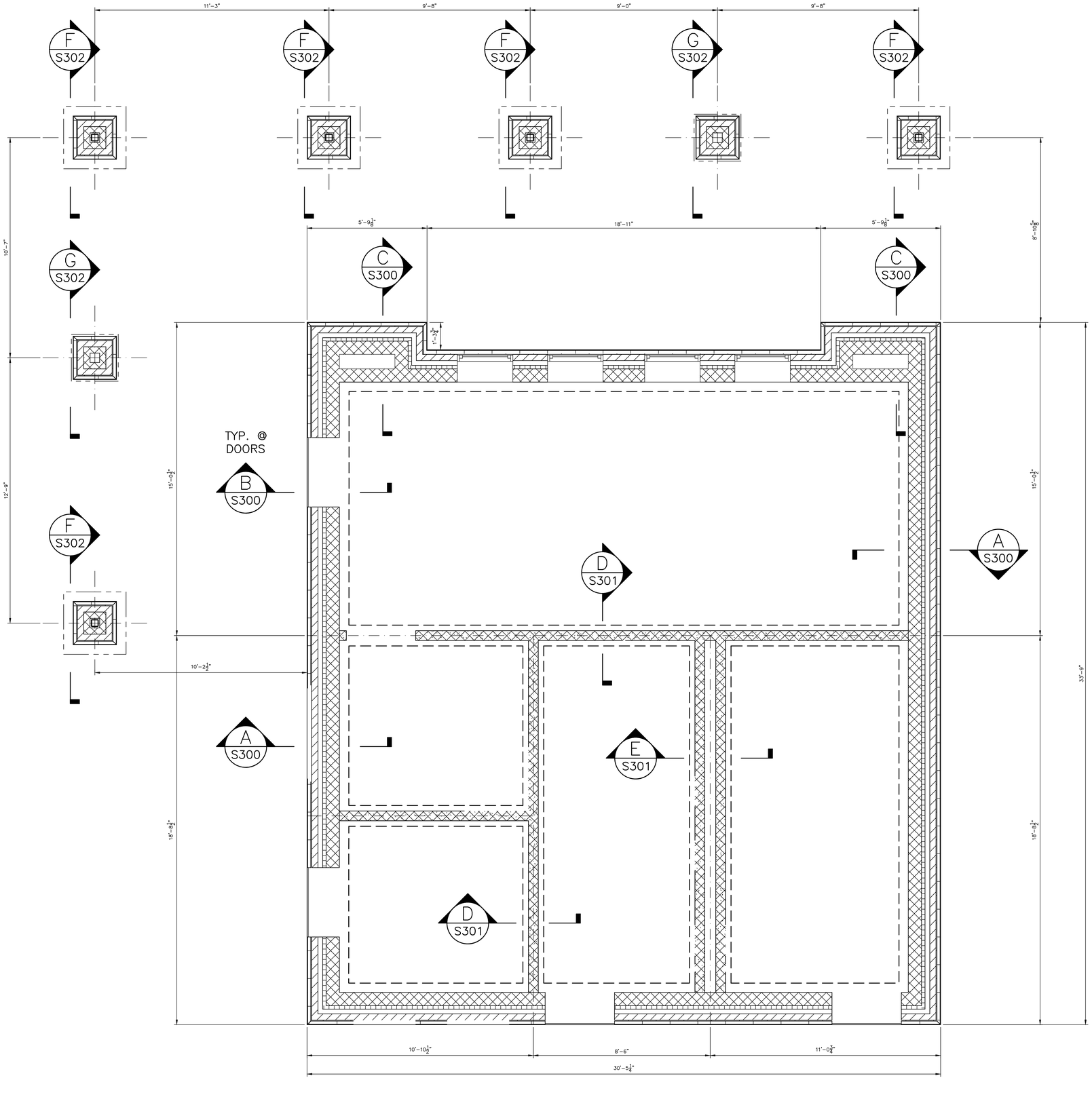
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GENERAL STRUCTURAL NOTES

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1 FOUNDATION PLAN
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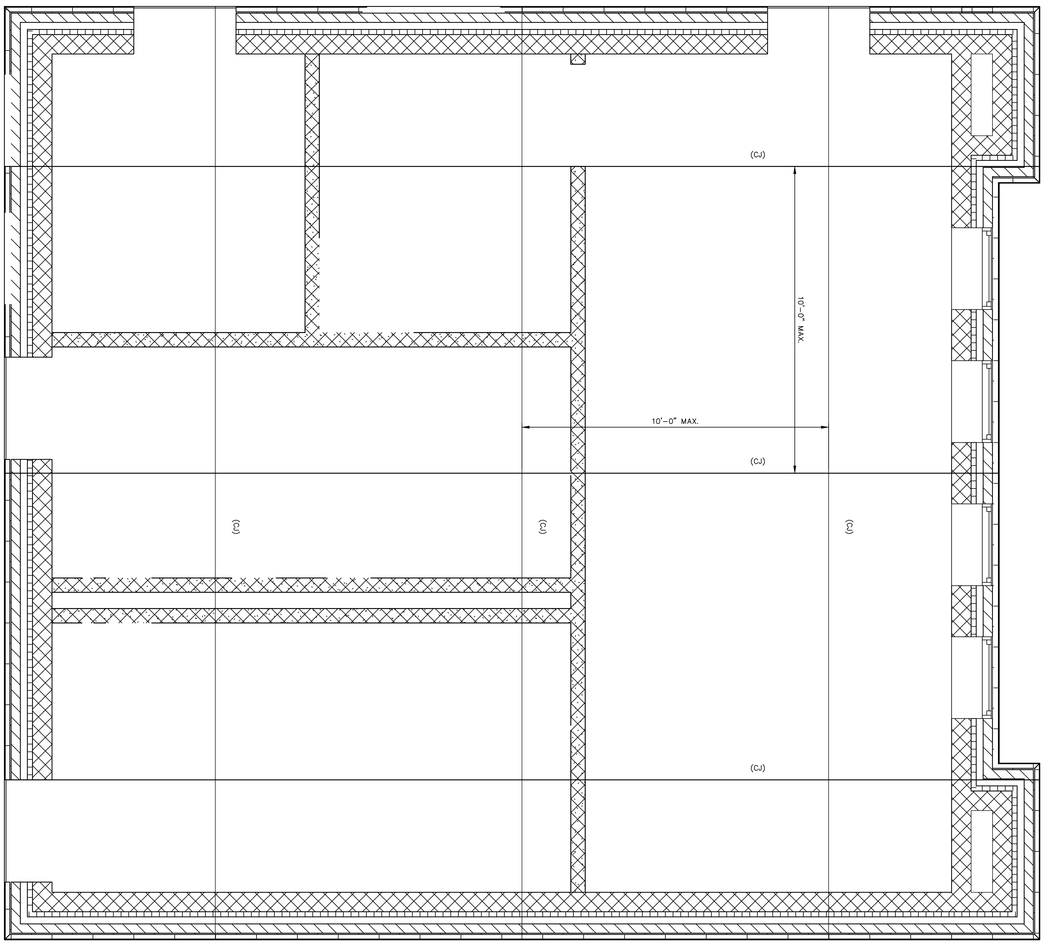
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1 SLAB JOINTING PLAN
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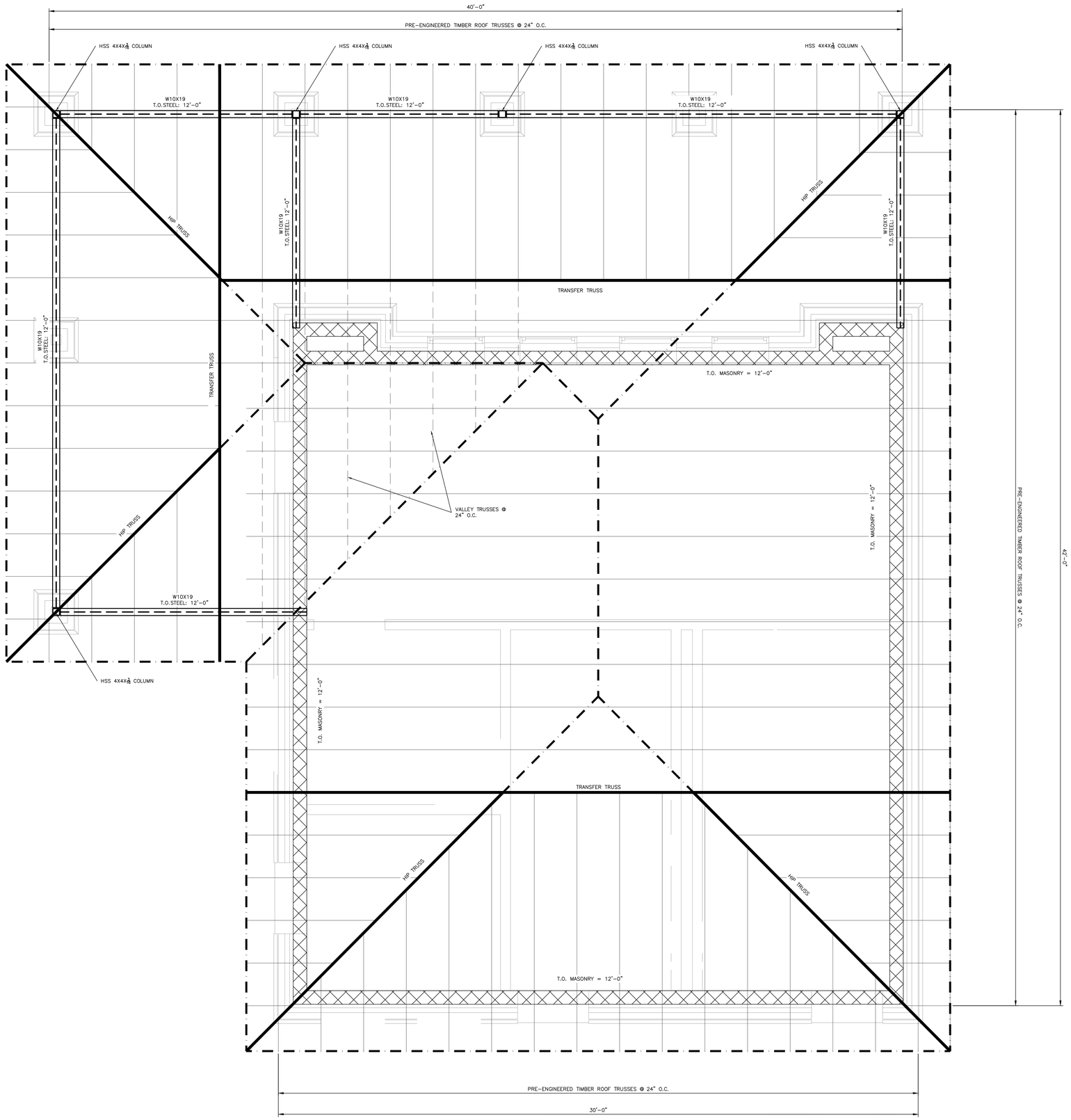
SLAB JOINTING PLAN

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1 ROOF FRAMING PLAN
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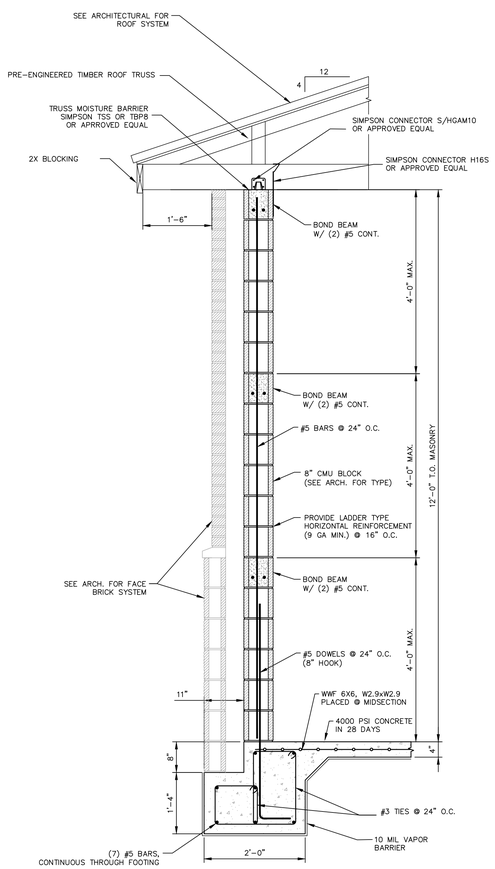
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LOCKER ROOM

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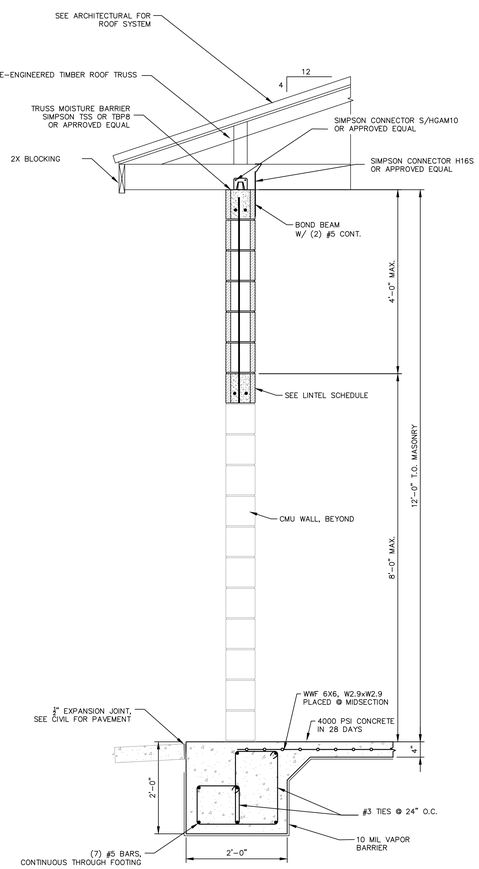
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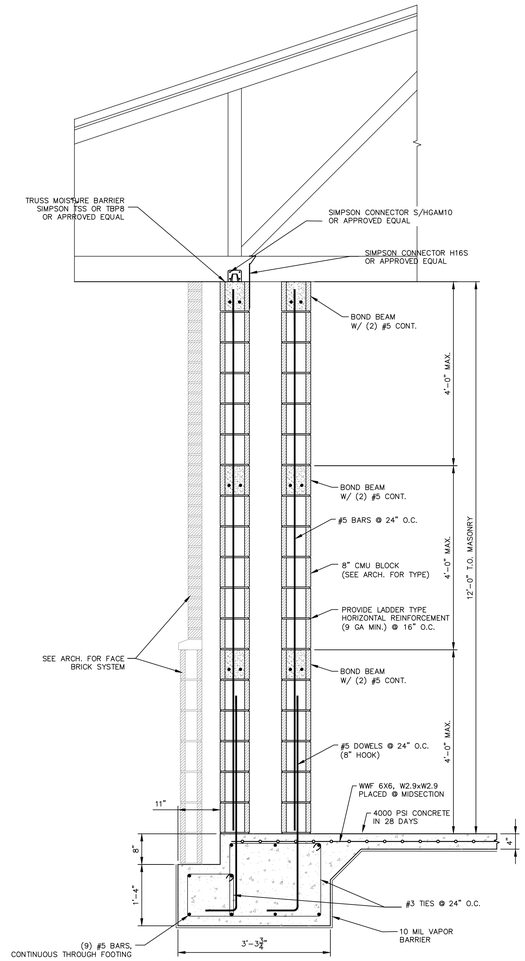
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A SECTION - EXTERIOR WALL
S100|S300 SCALE: 3/4" = 1'-0"



B SECTION - EXTERIOR WALL
S100|S300 SCALE: 3/4" = 1'-0"



C SECTION - EXTERIOR WALL
S100|S300 SCALE: 3/4" = 1'-0"

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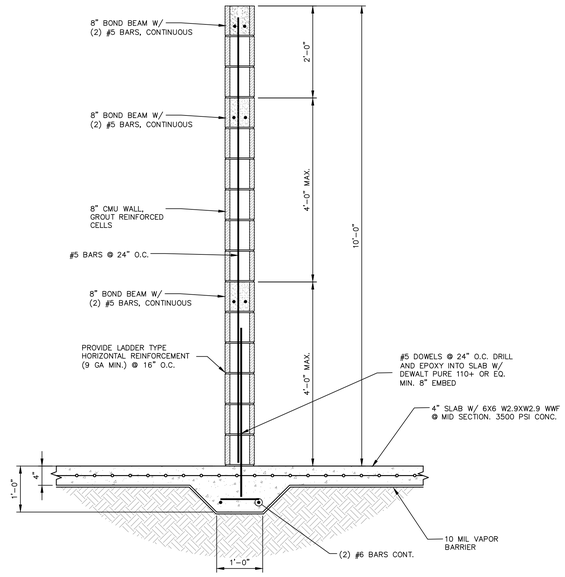
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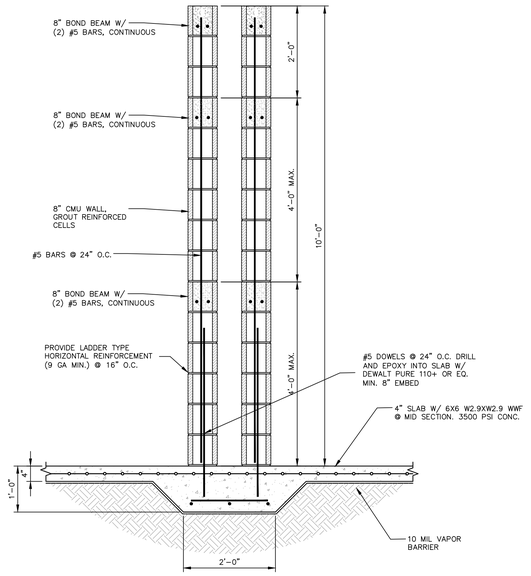
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D
S100 S301 SECTION - INTERIOR WALL

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



E
S100 S301 SECTION - INTERIOR WALL

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ENGINEER
32997
STATE OF MISSISSIPPI
10.31.25

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE:
PROJECT NO: 0323.25.002
DRAWN BY: BJS
CHECKED BY: BJS

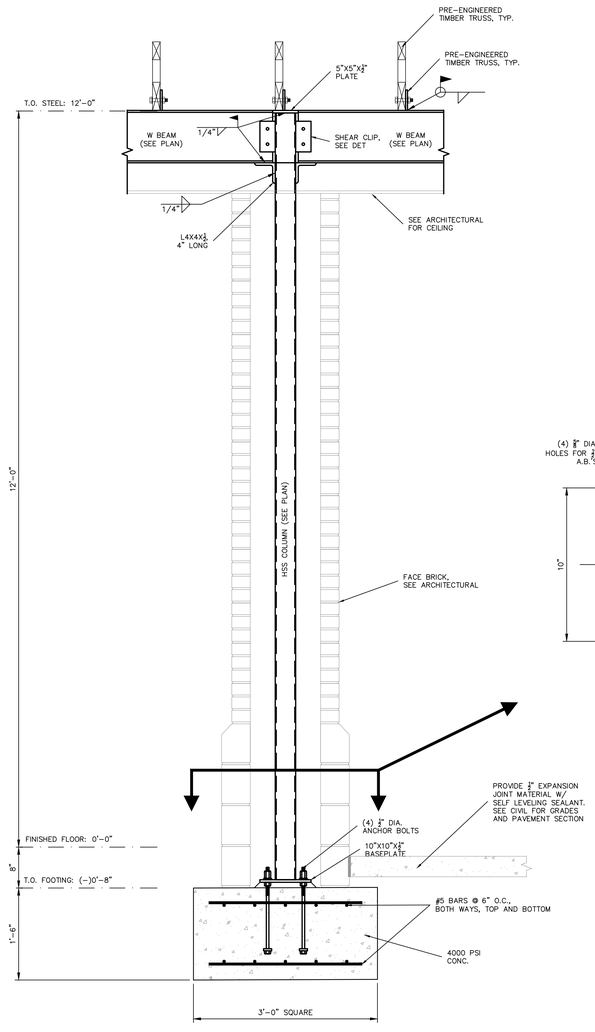
SECTIONS AND DETAILS

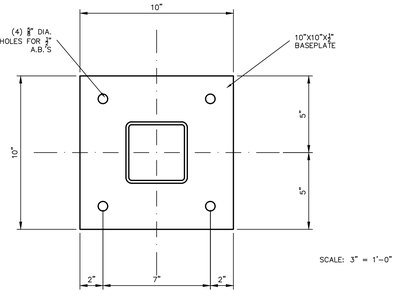
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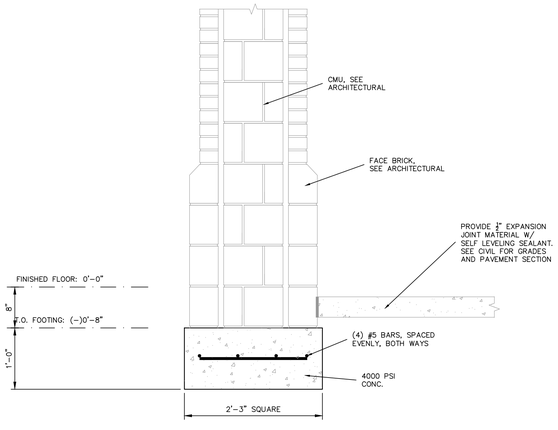


SCALE: 3" = 1'-0"

F
S100 | S302

SECTION - COLUMN

SCALE: 1" = 1'-0"



G
S100 | S302

SECTION - COLUMN

SCALE: 1" = 1'-0"

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

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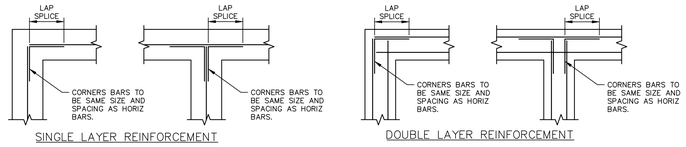
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STANDADRD DETAIL - REINFORCING @ CORNERS AND INTERSECTIONS

SCALE: NTS

EMBEDMENT LENGTHS

CONCRETE 28-DAY COMPRESSIVE STRENGTH = 3,500 PSI

BAR SIZE	STRAIGHT BARS		HOOKED BARS
	"TOP" BAR	OTHER BAR	
3	1'-10"	1'-5"	0'-9"
4	2'-5"	1'-10"	0'-11"
5	3'-0"	2'-4"	1'-2"
6	3'-7"	2'-9"	1'-5"
7	5'-3"	4'-0"	1'-8"
8	6'-0"	4'-7"	1'-10"
9	6'-8"	5'-2"	2'-1"
10	7'-5"	5'-9"	2'-4"
11	8'-2"	6'-4"	2'-6"

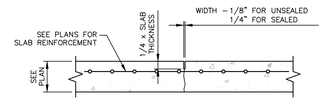
GRADE 60 REINFORCEMENT. MINIMUM LENGTHS SHOWN ABOVE SHALL BE USED UNLESS OTHERWISE NOTED ON THE PLANS. "TOP" BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.

LAP SPLICE LENGTHS

CONCRETE 28-DAY COMPRESSIVE STRENGTH = 3,500 PSI

BAR SIZE	SPACING 6" OR GREATER		SPACING LESS THAN 6"	
	"TOP" BAR	OTHER BAR	"TOP" BAR	OTHER BAR
3	2'-5"	1'-10"	2'-11"	2'-3"
4	3'-2"	2'-5"	3'-10"	2'-11"
5	3'-11"	3'-1"	4'-9"	3'-9"
6	4'-8"	3'-7"	5'-8"	4'-4"
7	6'-10"	5'-3"	8'-3"	6'-4"
8	7'-10"	6'-0"	9'-5"	7'-3"
9	8'-8"	6'-9"	10'-5"	8'-2"
10	9'-8"	7'-6"	11'-8"	9'-0"
11	10'-8"	8'-3"	12'-10"	9'-11"

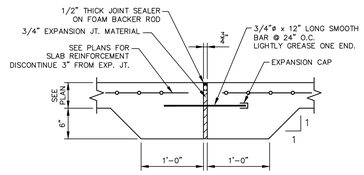
GRADE 60 REINFORCEMENT. MINIMUM LENGTHS SHOWN ABOVE SHALL BE USED UNLESS OTHERWISE NOTED ON THE PLANS. "TOP" BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.



STANDARD SECTION
CONCRETE SAW CUT CONTROL JOINT (CJ)

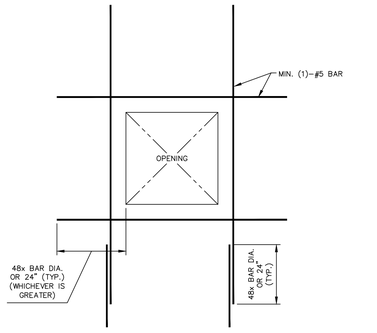
SCALE: 1" = 1'-0"

NOTES:
1.) SAW JOINTS IN GREEN CONCRETE ONCE ADEQUATE CURING HAS OCCURRED TO SUPPORT THE WEIGHT OF THE SAW AND OPERATOR (APPROX. 1 HOUR IN HOT WEATHER AND 4 HOURS IN COLD WEATHER). CUTS TO BE MADE USING A BLADE SPECIFICALLY DESIGNED FOR DRY EARLY ENTRY CONCRETE CUTTING

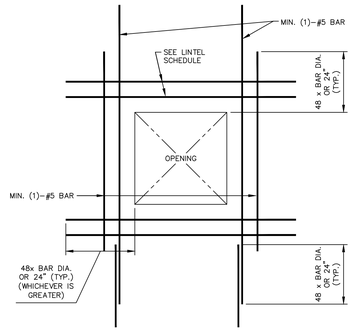


STANDARD SECTION
CONCRETE EXPANSION JOINT (EJ)

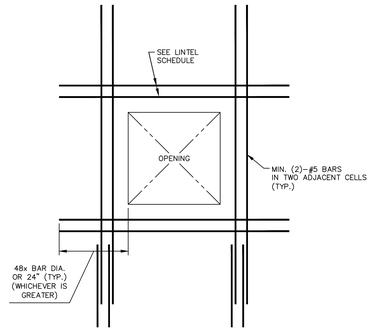
SCALE: 1" = 1'-0"



FOR OPENINGS IN NON-STRUCTURAL PARTITIONS OVER 212 SF OR OPENINGS 24" OR LESS BOTH WAYS IN STRUCTURAL OR EXTERIOR WALLS OVER 212 SF



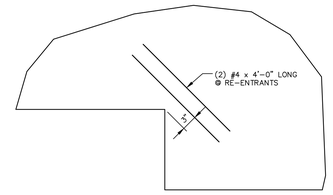
FOR OPENINGS IN STRUCTURAL OR EXTERIOR WALLS WHERE OPENING IN EITHER DIRECTION EXCEEDS 24" BUT NO MORE THAN 48".



FOR OPENINGS IN STRUCTURAL OR EXTERIOR WALLS WHERE OPENING IN EITHER DIRECTION EXCEEDS 48".

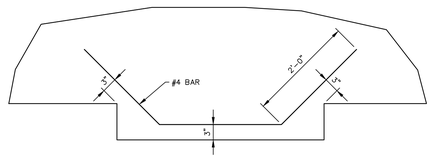
STANDARD DETAILS
CMU WALL REINFORCEMENT AT OPENINGS

SCALE: NTS



TYP. SECTION
REINFORCEMENT @ RE-ENTRANT CORNERS

SCALE: 1" = 1'-0"



TYP. SECTION
REINFORCEMENT @ INTERIOR DOORWAYS

SCALE: 1" = 1'-0"

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

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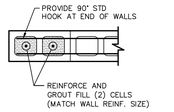
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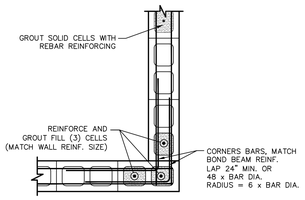
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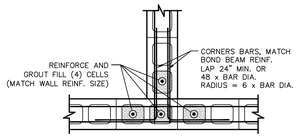
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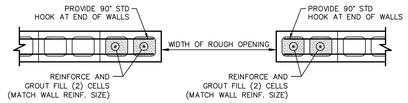
WALL END REINFORCEMENT



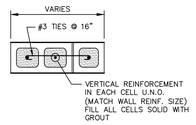
WALL CORNER REINFORCEMENT



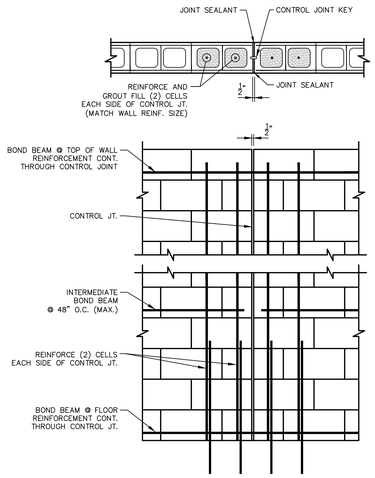
WALL INTERSECTION REINFORCEMENT



WALL ROUGH OPENING (WINDOWS/DOORS) REINFORCEMENT



PIER OR WALL SECTION 3'-0" OR LESS IN WIDTH REINFORCEMENT

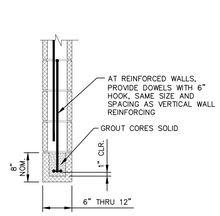


MASONRY WALL CONTROL JOINT REINFORCEMENT DETAIL

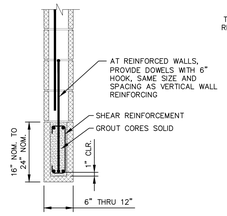
STANDARD DETAIL
CMU REINFORCEMENT DETAILS

SCALE: NTS

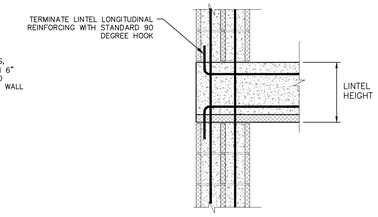
NOTES:
1. REINFORCEMENT SHOWN IS IN ADDITION TO MINIMUM REINFORCEMENT SHOWN ON PLANS.
2. REINFORCEMENT SHALL BE CONTINUOUS FROM FOOTING TO TOP OF WALL. FILL CORES SOLID WITH GROUT AS NOTED IN SPECIFICATIONS, GENERAL NOTES, AND/OR PLANS.



8" DEEP LINTELS



16" DEEP OR DEEPER LINTELS



DETAIL AT BEARING

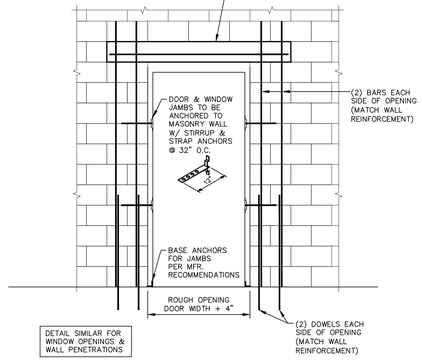
STANDARD DETAIL
CMU LINTEL SECTIONS AND DETAILS

SCALE: NTS

NOTES:
1. SEE STRUCTURAL AND ARCHITECTURAL PLANS FOR SPECIFIC LOCATIONS AND CLEAR OPENING SPANS.
2. LINTELS ARE TO SPAN CONTINUOUS BETWEEN BEARINGS ON EACH SIDE OF OPENING.
3. EXTEND BOTTOM REINFORCEMENT TO END OF BEARING ON EACH SIDE OF OPENING AND EXTEND TOP REINFORCEMENT WHERE POSSIBLE (BASIC DEVELOPMENT STRENGTH). TERMINATE TOP REINFORCEMENT WITH STD HOOK AT CONTROL JOINTS OR FREE EDGES.
4. PROVIDE SOLID GROUTED OR MASONRY JAMB UNDER LINTEL ON EACH SIDE OF OPENING FOR SPANS GREATER THAN 6'-0".

CMU LINTEL OPENING SCHEDULE

CLEAR OPENING SPAN (CO)	HEIGHT	REINFORCING			BEARING EACH END
		BOTTOM BARS	TOP BARS	SHEAR REINF	
0'-0" < CO ≤ 4'-0"	8"	2 – #4 BARS	N/A	N/A	8"
4'-0" < CO < 6'-0"	8"	2 – #4 BARS	N/A	N/A	16"
6'-0" ≤ CO ≤ 12'-0"	16"	2 – #5 BARS	2 – #5 BARS	#3 @ 12"	16"
"L1" LINTEL	24"	2 – #6 BARS	2 – #6 BARS	#3 @ 12"	16"



STD. DETAIL - ROUGH DOOR OPENING

SCALE: NTS

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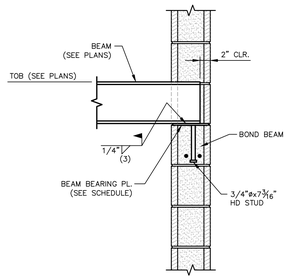
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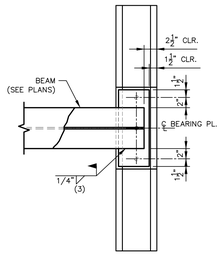
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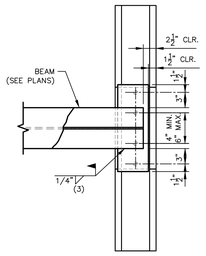
BEAM BEARING PL. SCHEDULE				
BEAM SIZE	PLATE THICKNESS	PLATE WIDTH	PLATE LENGTH	NO. OF HD STUDS
W8, W10	3/8"	6"	BEAM FLANGE + 7"	3
W12, W14, W16	3/4"	6"	BEAM FLANGE + 7"	3
W18	1"	6"	BEAM FLANGE + 7"	3
W21	1"	6"	BEAM FLANGE + 9"	4
W24	1 1/2"	6"	BEAM FLANGE + 9"	4



ELEVATION
BEAM PERPENDICULAR TO WALL



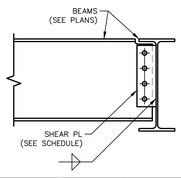
PLAN
(3) HD STUDS



PLAN
(4) HD STUDS

STANDARD DETAIL
BEAM BEARING AT CMU WALLS

SCALE: NTS

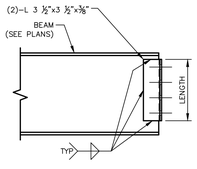


STEEL SECTION	NO. BOLTS (A325-N)	SHEAR PL THICKNESS	FILLET WELD SIZE
W8, W10	(2)-3/4"ø	3/8"	5/16"
W12, W14	(3)-3/4"ø	3/8"	5/16"
W16, W18	(4)-3/4"ø	3/8"	5/16"
W21, W24	(5)-3/4"ø	3/8"	5/16"
W27	(7)-3/4"ø	1/2"	5/16"
W30	(8)-3/4"ø	1/2"	5/16"

CLEARLY MARK SHEAR PL TO IDENTIFY CORRECT PLACEMENT OF BEAM TO SHEAR PL UPON ERECTION

STANDARD DETAIL
SINGLE SHEAR PL CONNECTION (MIN.)

SCALE: NTS

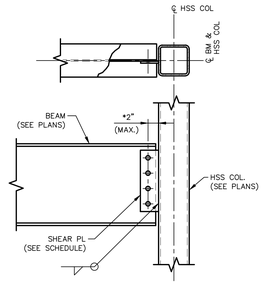


STEEL SECTION	NO. BOLTS EACH ANGLE (A325-N)	FILLET WELD SIZE	LENGTH
W8, W10	(2)-3/4"ø	5/16"	5 ¼"
W12, W14	(3)-3/4"ø	5/16"	8 ¼"
W16, W18	(4)-3/4"ø	5/16"	11 ¼"
W21, W24	(5)-3/4"ø	5/16"	14 ¼"
W27	(7)-3/4"ø	5/16"	20 ½"
W30	(8)-3/4"ø	5/16"	23 ½"

SHEAR CAPACITY IS BASED UPON MIN WEB THICKNESS OF STEEL SECTION AND A36 STEEL (TABLE 111 NOTE a)

STANDARD DETAIL
DOUBLE ANGLE FRAME CONNECTION (MIN.)

SCALE: NTS



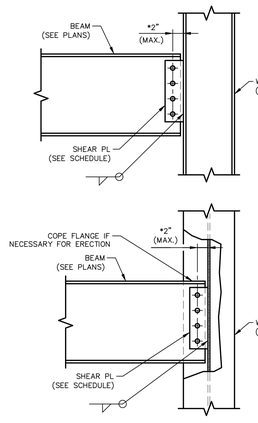
STEEL SECTION	NO. BOLTS (A325-N)	SHEAR PL THICKNESS	FILLET WELD SIZE
W8, W10	(2)-3/4"ø	3/8"	5/16"
W12, W14	(3)-3/4"ø	3/8"	5/16"
W16, W18	(4)-3/4"ø	3/8"	5/16"
W21, W24	(5)-3/4"ø	3/8"	5/16"
W27	(7)-3/4"ø	1/2"	5/16"
W30	(8)-3/4"ø	1/2"	5/16"

CLEARLY MARK SHEAR PL TO IDENTIFY CORRECT PLACEMENT OF BEAM TO SHEAR PL UPON ERECTION

*2" (MAX.) IS BASED UPON 1/4" CLEARANCE FROM FACE OF COLUMN TO EDGE OF BEAM PLUS 1 3/4" TO CENTERLINE OF BOLT HOLES.

STANDARD DETAIL
BEAM TO HSS COLUMN CONNECTION (MIN.)

SCALE: NTS



STEEL SECTION	NO. BOLTS (A325-N)	SHEAR PL THICKNESS	FILLET WELD SIZE
W8, W10	(2)-3/4"ø	3/8"	1/4"
W12, W14	(3)-3/4"ø	3/8"	1/4"
W16, W18	(4)-3/4"ø	3/8"	5/16"
W21, W24	(5)-3/4"ø	1/2"	3/8"
W27	(7)-3/4"ø	1/2"	3/8"
W30	(8)-3/4"ø	1/2"	3/8"

*2" (MAX.) IS BASED UPON 1/4" CLEARANCE FROM COLUMN FLANGE/WEB TO END OF BEAM PLUS 1 3/4" TO CENTERLINE OF BOLT HOLES

STANDARD DETAIL
BEAM TO W COLUMN CONNECTION (MIN.)

SCALE: NTS

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

STANDARD SECTIONS AND DETAILS

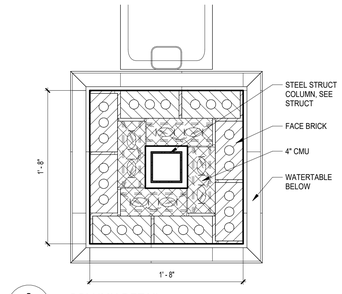
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m:\0323_vicksburg warren school district\0323.25.002 *weld softball upgrade\03-structural\03-production\03-production drawings\vicksburg concession structural.dwg



3 A101 COLUMN DETAIL
1 1/2" = 1'-0"

DIM. FLOOR PLAN NOTES

1. ALL EXTERIOR DIMENSIONS ARE TAKEN FROM OUTSIDE FACE OF STEEL TO OUTSIDE FACE OF STEEL OR OUTSIDE FACE OF MASONRY TO OUTSIDE FACE OF MASONRY.

ENLARGED RR NOTES

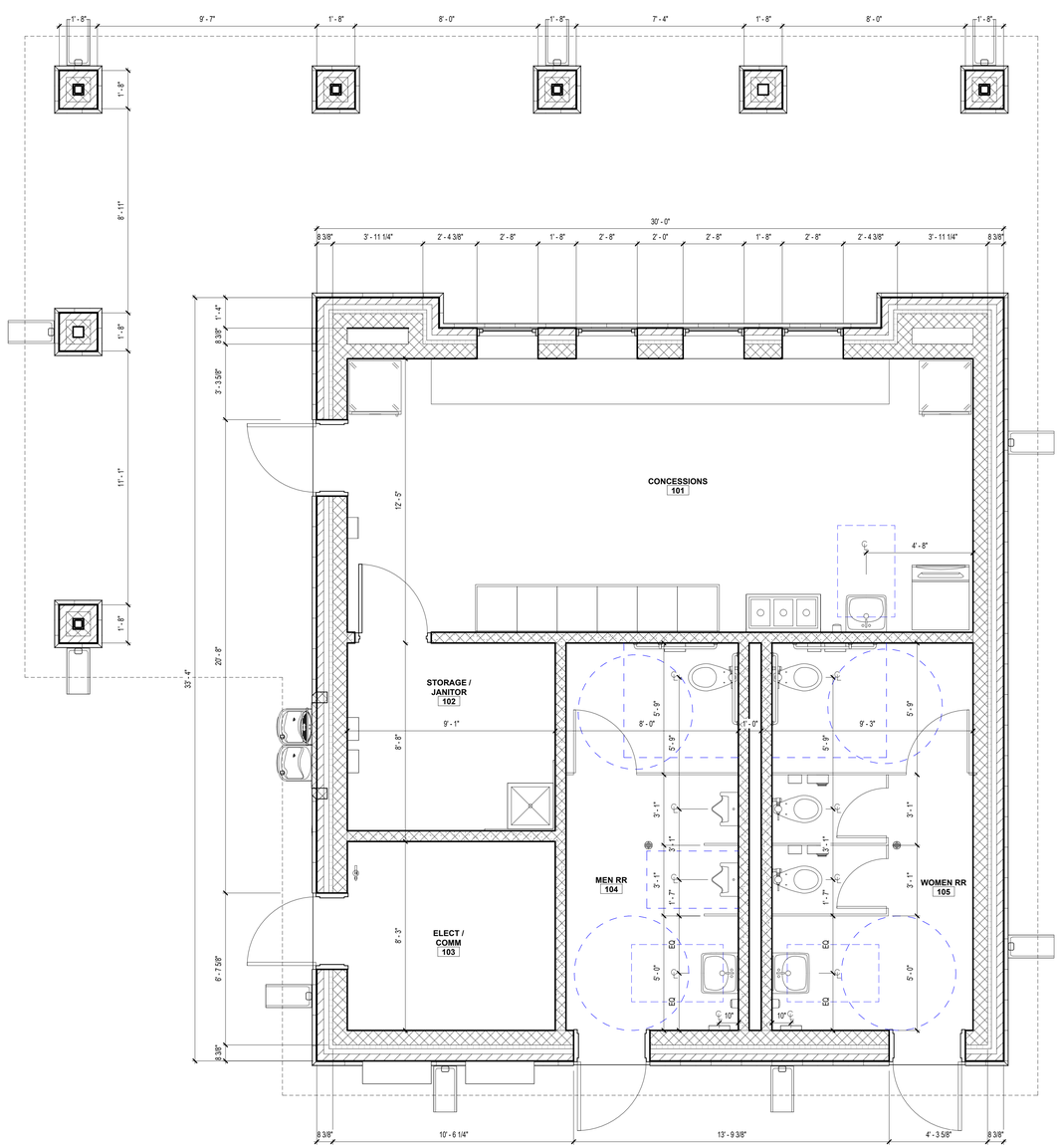
1. ALL DIMENSIONS ARE TAKEN FROM FINISHED SURFACE OF WALL TO CENTER OF FIXTURE UNLESS NOTED OTHERWISE.
2. SEE STRUCTURAL FOR LOCATIONS OF SLAB RECESSES.
3. ADA TOILET PARTITION STALL DOORS MUST HAVE CLEAR OPENING OF 32" MINIMUM.
4. SEE SHEET G201 FOR GENERAL ADA CLEARANCES AND REQUIREMENTS.

RESTROOM/JANITOR ACCESSORY SCHEDULE

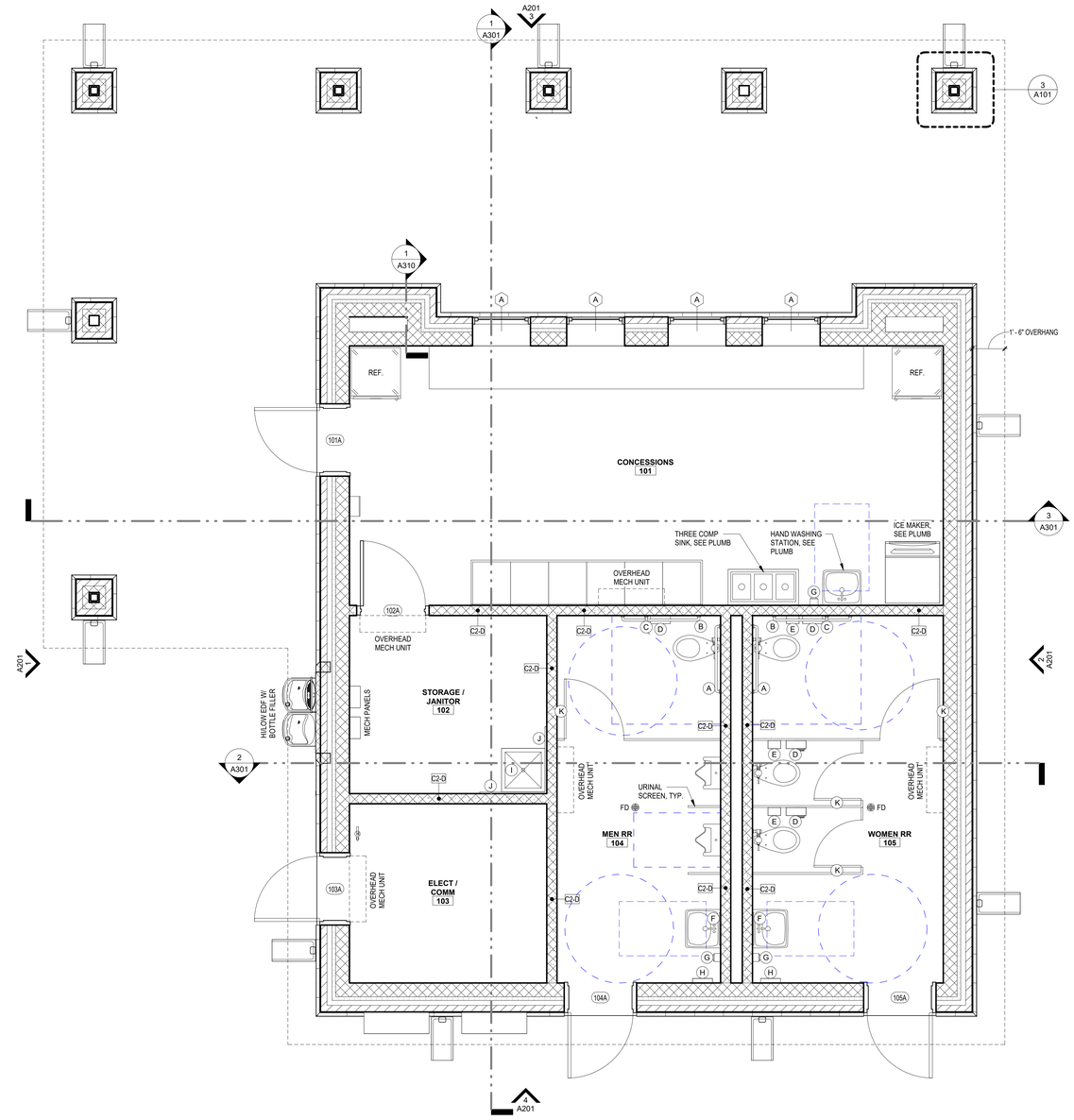
SYMBOL	ACCESSORY	MOUNTING HEIGHT	NOTES
A	36" GRAB BAR (REAR OF WC)	33" - 36" AFF	1
B	42" GRAB BAR (SIDE OF WC)	33" - 36" AFF	1
C	18" VERTICAL GRAB BAR	39" - 41" AFF TO CL OF ATTACHMENT	1, 5
D	TOILET TISSUE DISPENSER	18" MIN AFF MAX TO BOTTOM OF TISSUE	1
E	SANITARY NAPKIN DISPOSAL		
F	MIRROR 18" X 36"	40" AFF MAX TO REFLECTIVE SURFACE	2
G	SOAP DISPENSER	44"-48" MAX TO OPERABLE PART	1
H	PAPER TOWEL DISPENSER/GARBAGE RECEPTACLE	44"-48" MAX TO TOWEL DISPENSER	1
I	34" MOP HOLDER W/ SHELF	---	1
J	FIBERGLASS REINFORCED PANEL (FRP)	---	3
K	ROBE HOOK	42" AFF ON RR SIDE OF DOOR	1

ACCESSORY NOTES

1. FIELD VERIFY MOUNTING HEIGHTS WITH ARCHITECT BEFORE INSTALLATION. ALL MOUNTING HEIGHTS SHALL COMPLY WITH ADA REQUIREMENTS & MANUFACTURER RECOMMENDATIONS.
2. ATTACH MIRROR PER MANUFACTURER RECOMMENDATIONS. CENTER MIRROR WITH LAVATORY OR LAVATORY UNIT BELOW.
3. PROVIDE FRP UP TO 8'-0" TALL AND EXTEND PAST SIDES OF MOP SINK MINIMUM 12 INCHES. PROVIDE TRIM PIECES FOR EXPOSED EDGES OF FRP.
4. NIC- NOT IN CONTRACT; OWNER FURNISHED/OWNER INSTALLED
5. MOUNTING HEIGHT DIMENSION IS TO THE CENTER LINE OF THE BOTTOM ATTACHMENT.



1 A101 DIMENSIONED FLOOR PLAN
3/8" = 1'-0"



2 A101 FLOOR PLAN
3/8" = 1'-0"

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CONCESSIONS FLOOR PLAN

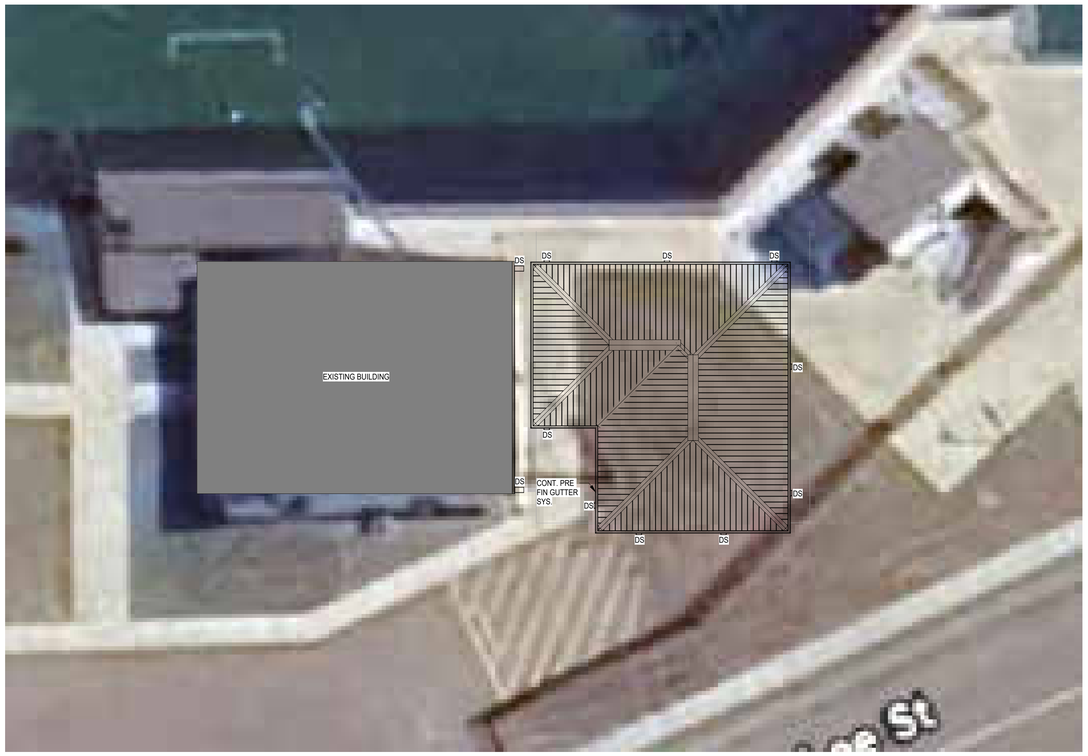
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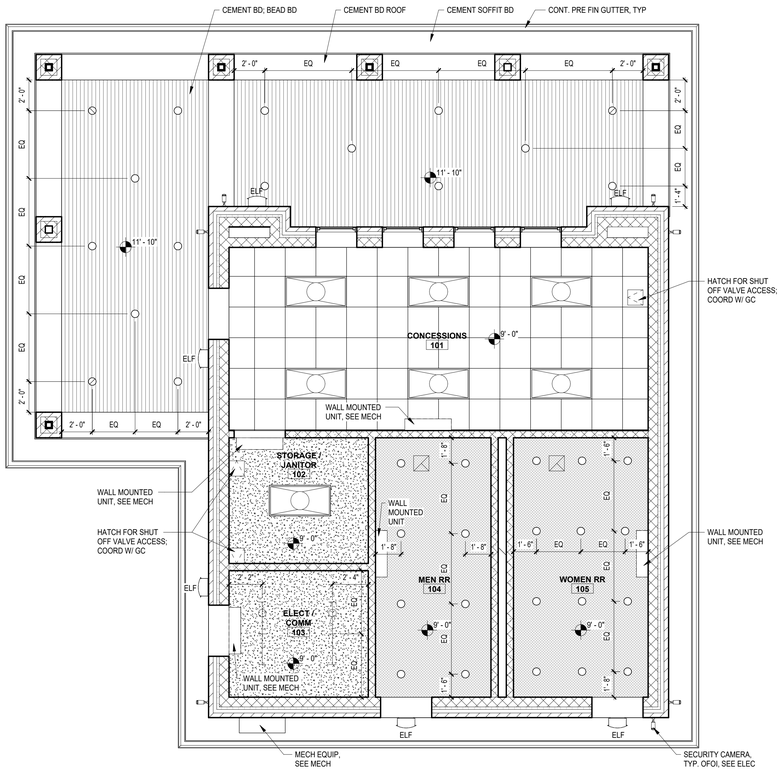
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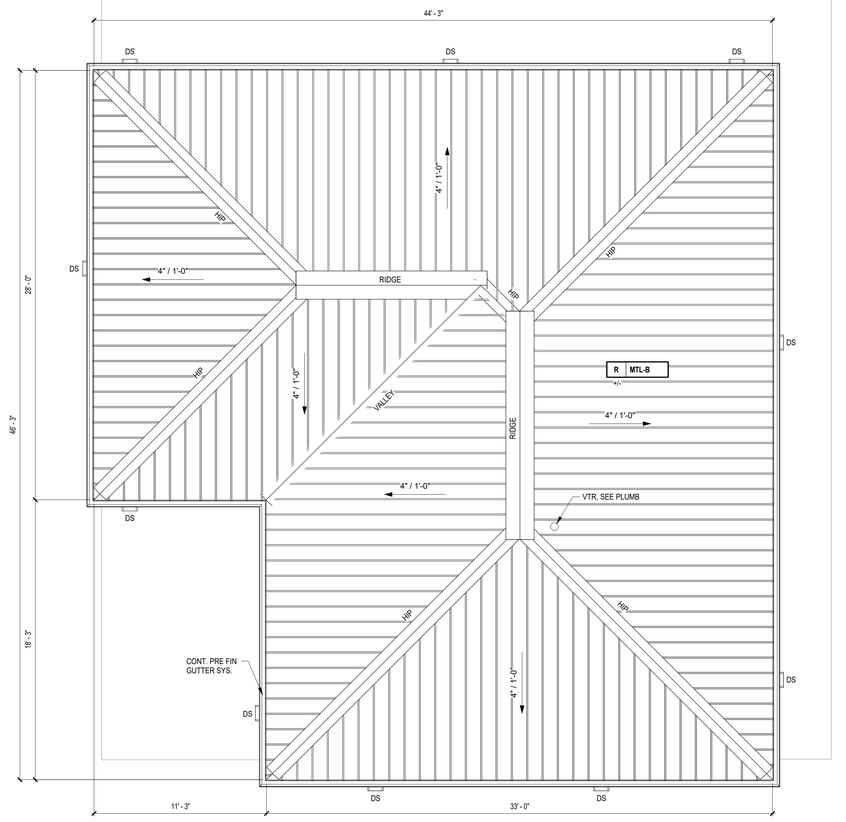


3 / A110 VHS ROOF PLAN
3/32" = 1'-0"

NOTE: SEE IMAGE EXHIBIT 4/A110 FOR DOWNSPOUT LOCATIONS AT VHS BASEBALL CONCESSION AND ADDITIONAL GUTTER AND DOWNSPOUT EXTENTS



1 / A110 REFLECTED CEILING PLAN
1/4" = 1'-0"



2 / A110 ROOF PLAN
1/4" = 1'-0"

RCP GENERAL NOTES

1. SEE MECHANICAL AND ELECTRICAL SHEETS TO VERIFY SIZE, TYPE, NUMBER, AND LOCATION OF FIXTURES.
2. ALL LIGHTS TO BE CENTERED WITHIN 2X2 GRID TYP.
3. WHERE LAY-IN-ACOUSTICAL TILE UNITS LESS THAN 6" WIDE OCCUR AT EDGES OF THE ROOM PROVIDE 2AX48 INCH PANELS CUT TO EXTEND TO WALL, ELIMINATING THE TEE NEAR THE WALL.
4. PROVIDE MOISTURE, MOLD, & MILDEW RESISTANT GYPSUM BOARD @ RESTROOMS.
5. SEE ROOM FINISH SCHEDULE FOR CEILING HEIGHTS NOT LISTED HERE.
6. VANITY FIXTURES TO BE CENTERED OVER LAV, TYP.
7. SEE ELEC FOR SECONDARY CAMERA\C@TV LOCATIONS.

RCP HATCH LEGEND

- GYP-1
- GYP-2 MOISTURE RES GYP BD
- ACT-1
- MTL SOFFIT
- CEMENT SOFFIT

RCP GRAPHIC LEGEND

NOTE: SEE ELECTRICAL FOR SPECIFIC LIGHT FIXTURE SCHEDULING. FIXTURE SYMBOLS/GRAPHICS MAY VARY FROM THOSE SHOWN ON ELEC DWGS.

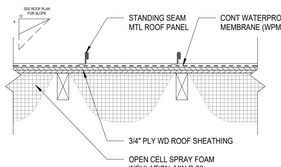
- 2X4 LAY IN LIGHT FIXTURE
- 2X2 LAY IN LIGHT FIXTURE
- WALL MOUNTED LIGHT @ 26' AFF
- CAN DOWNLIGHT; SIZE MAY VERY, SEE ELEC FOR SIZE AS SCHED
- SUSPENDED FIXTURE, SIZE MAY VARY, SEE ELEC FOR SIZE AS SCHED AND VARIFY MOUNTING HEIGHT WITH ARCHITECT.
- HVAC SUPPLY
- HVAC RETURN
- SUSPENDED FIXTURE, SIZE MAY VARY, SEE ELEC FOR SIZE AS SCHED. MOUNT LIGHT AT 16'-0" ABOVE FINISH FLOOR.

ROOF PLAN GENERAL NOTES

1. SEE MECHANICAL AND ELECTRICAL FOR ALL ROOF PENETRATIONS.
2. PROVIDE MIN R-28 INSULATION AT ROOF, SEE WALL SECTIONS FOR DETAILS.
3. VERIFY LOCATIONS, SIZE, & NUMBER OF MECHANICAL & PLUMBING PENETRATIONS WITH MECHANICAL DRAWINGS.
4. DIMENSIONS SHOWN FOR REFERENCE CONLY. CONTRACTOR TO VERIFY.
5. PEMB MANUFACTURE TO ACCOUNT FOR MECHANICAL EQUIPMENT LOADS ON ROOF.

ROOF HATCH LEGEND

- STANDING SEAM METAL ROOFING
- GUTTER & DOWNSPOUT



R | MTL-B **STANDING SEAM MTL ROOF PANEL OVER METAL DECK**

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REFLECTED CEILING PLAN & ROOF PLAN

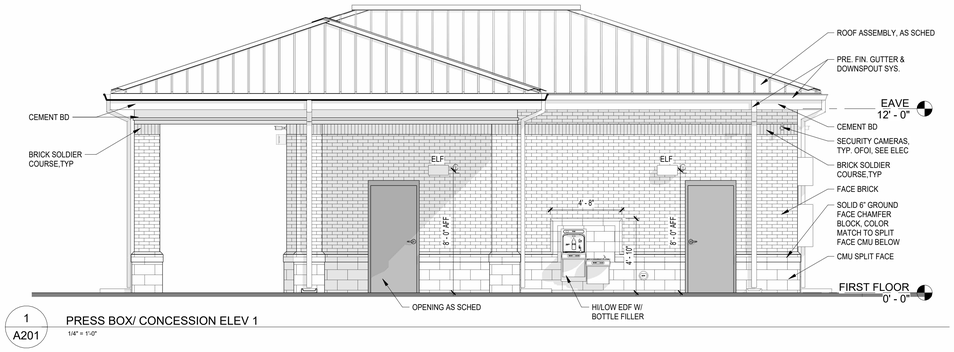
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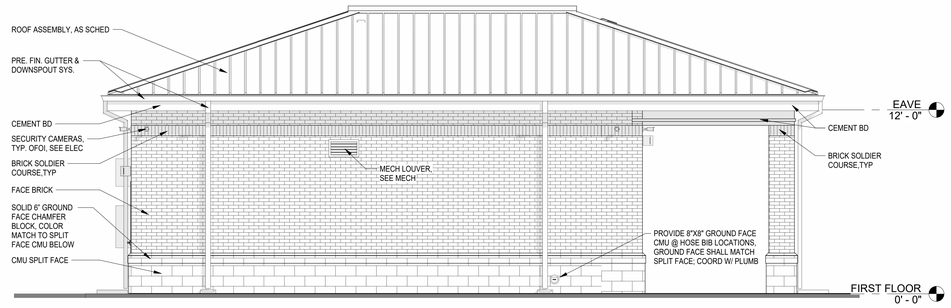
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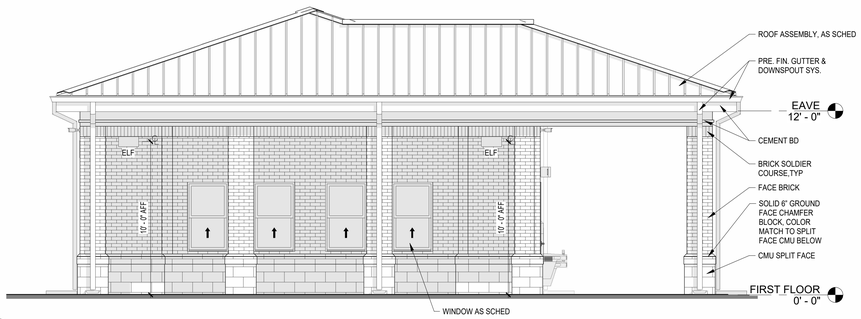
1 A201 PRESS BOX/ CONCESSION ELEV 1

1/4" = 1'-0"



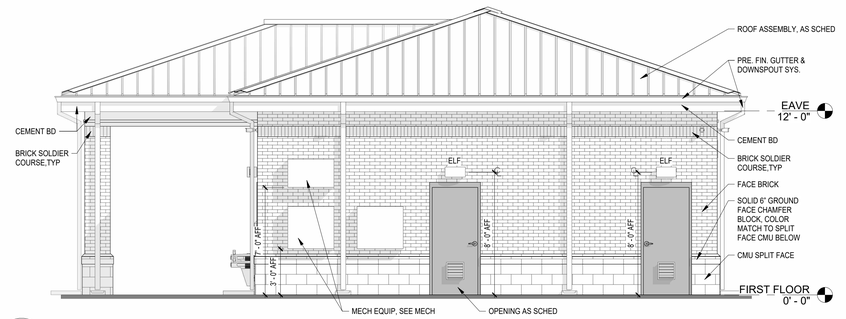
2 A201 PRESS BOX/ CONCESSION ELEV 2

1/4" = 1'-0"



3 A201 PRESS BOX/ CONCESSION ELEV 3

1/4" = 1'-0"



4 A201 PRESS BOX/ CONCESSION ELEV 4

1/4" = 1'-0"

CONTROL JOINT LOCATION - GENERAL NOTES:

1. FOR FURTHER INFORMATION, CONSULT THE CONCRETE MASONRY HANDBOOK AND THE GYPSUM CONSTRUCTION HANDBOOK.
2. MAXIMUM SPACING BETWEEN CONTROL JOINTS IN REINFORCED MASONRY CONSTRUCTION IS 25 FEET; THE DISTANCE OF A JOINT FROM A CORNER IS 25 FEET. AVOID PLACING CONTROL JOINTS BETWEEN TWO ADJACENT WINDOWS; CRACKS MAY SEEK A PATH TO A WINDOW.
3. CONTROL JOINTS ARE TO OCCUR AT ALL ABRUPT CHANGES IN WALL HEIGHT (SEE DIAGRAM 1.)
4. PROVIDE CONTROL JOINTS AT ALL CHANGES IN WALL THICKNESS, SUCH AS THOSE AT PIPE OR DUCT CHASES AND THOSE ADJACENT TO COLUMNS OR PILASTERS (SEE DIAGRAM 2.)
5. PROVIDE CONTROL JOINTS AT ALL LARGE OPENINGS IN WALLS. OPENINGS LESS THAN 6 FEET WIDE OR TO RECEIVE A CONTROL JOINT ALONG ONLY ONE SIDE; OPENINGS LARGER THAN 6FEET MUST HAVE JOINTS AT BOTH SIDES. OFFSET THE CONTROL JOINT (MIN 8") AS REQ'D TO ALLOW LINTEL ADEQUATE BEARING AREA (SEE DIAGRAM 3.) TO PERMIT MOVEMENT, THE BEARING OF AT LEAST ONE END OF THE LINTEL SHOULD BE BUILT TO SLIDE. PLASTIC OR BITUMINOUS SHEET SHOULD BE USED FOR A SLIP PLATE.

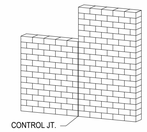


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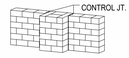


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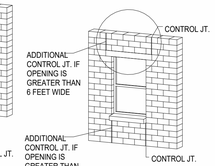
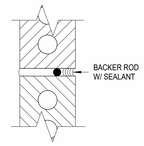


DIAGRAM 3

CONTROL AND EXPANSION JOINT NOTES:

1. TOOL JOINTS TO ENSURE FULL CONTACT WITH AND ADHESION TO SUBSTRATE.
2. ENSURE THAT SUBSTRATE IS CLEAN AND DRY PRIOR TO APPLICATION OF SEALANT MAT'L. PROVIDE PRIMER TO IMPROVE ADHESION OF SEALANT TO SUBSTRATE AS REQ'D.
3. SEALANT DEPTH:
   A. 1/4" MIN FOR 1/4" JOINTS
   B. EQUAL TO JOINT WIDTH FOR JOINTS UP TO 1/2"
   C. HALF OF JOINT WIDTH FOR JOINTS 1/2" OR WIDER, BUT NOT MORE THAN 1/2"
4. JOINT FILLER (BACKER ROD) CONTROLS DEPTH OF SEALANT CONTACT W/ ADJOINING PARS. IT SHOULD BE COMPRESSIBLE AND NOT ADHERE TO SEALANT.



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EXTERIOR ELEVATIONS

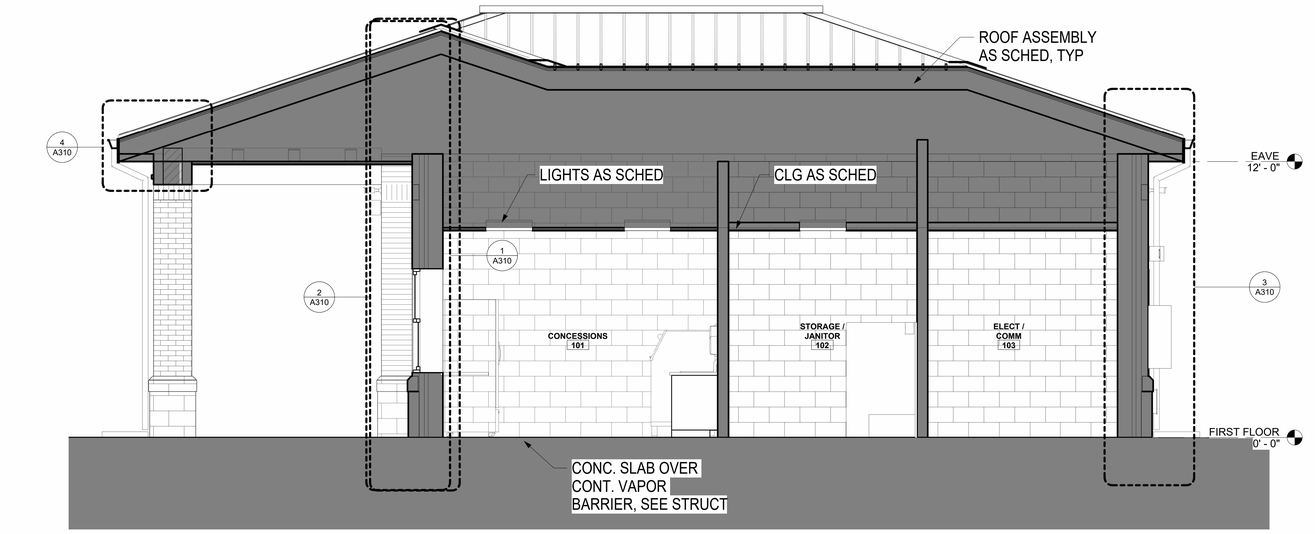
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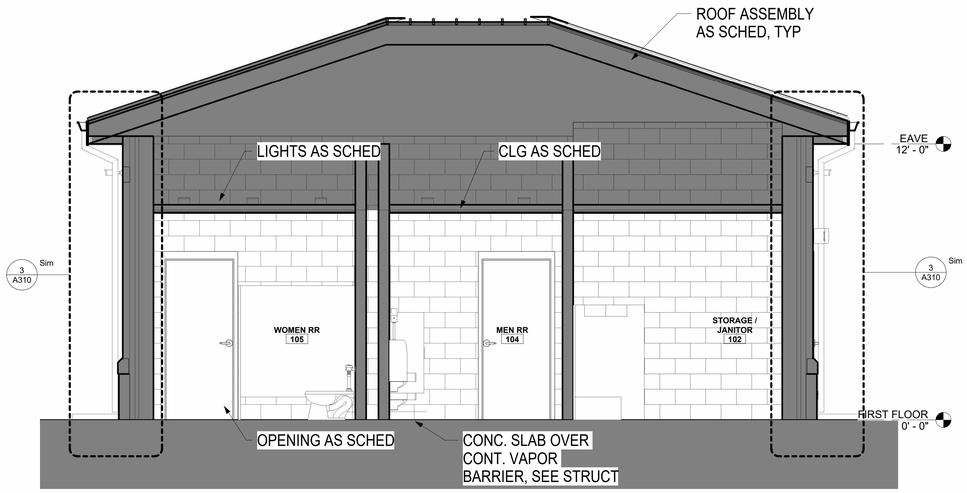
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1 A301 BUILDING SECTION 1
3/8" = 1'-0"



2 A301 BUILDING SECTION 2
3/8" = 1'-0"



3 A301 BUILDING SECTION 3
3/8" = 1'-0"

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VANESSA J. HOWARD
10941
STATE OF MISSISSIPPI

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

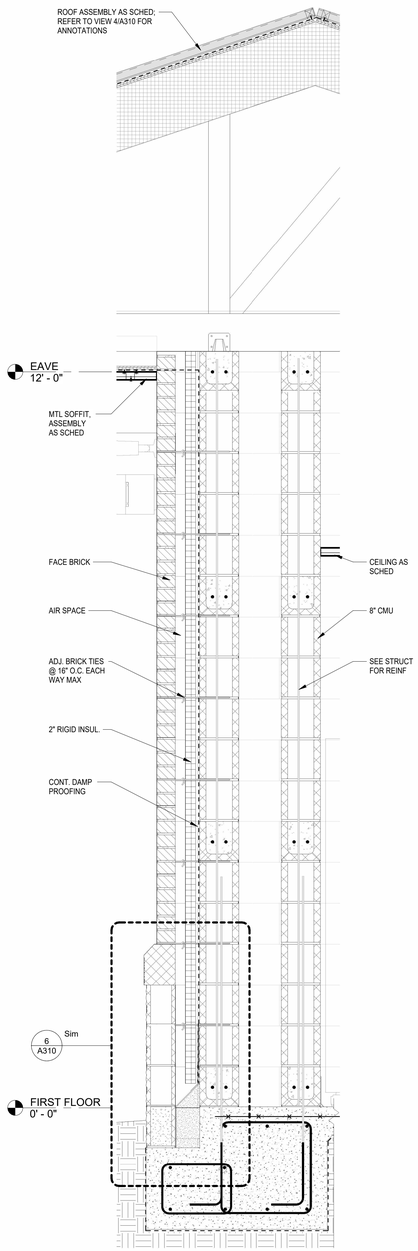
SCALE: AS INDICATED
PROJECT NO: 0323.25.002
DRAWN BY: CG
CHECKED BY: VJH

BUILDING SECTIONS

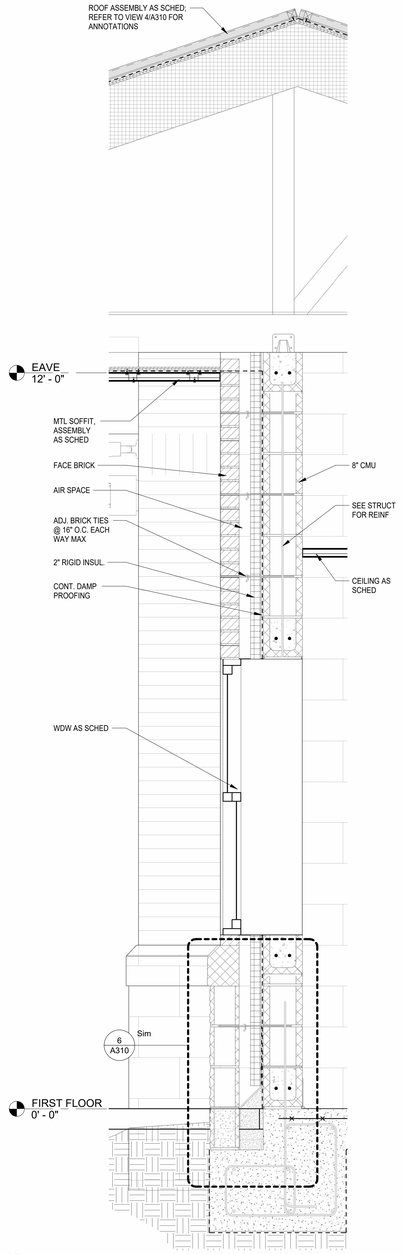
NO.	DATE	REVISION/ SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION

A301

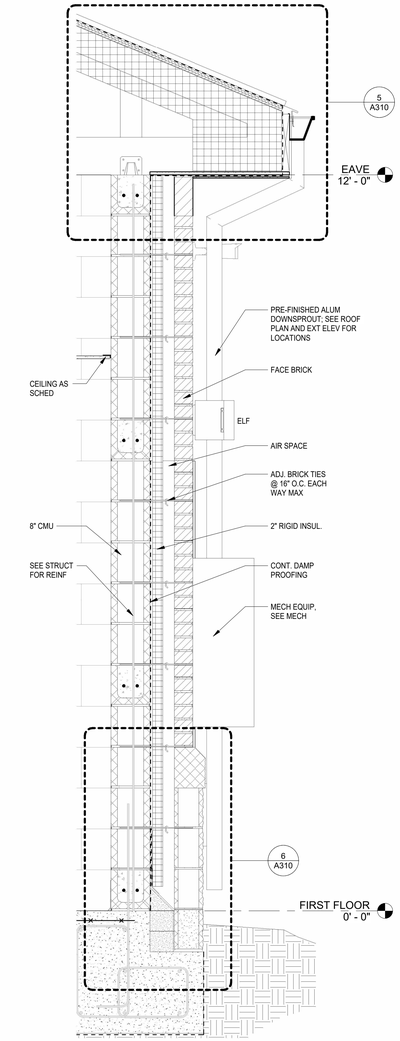
VERIFY SCALES
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1"
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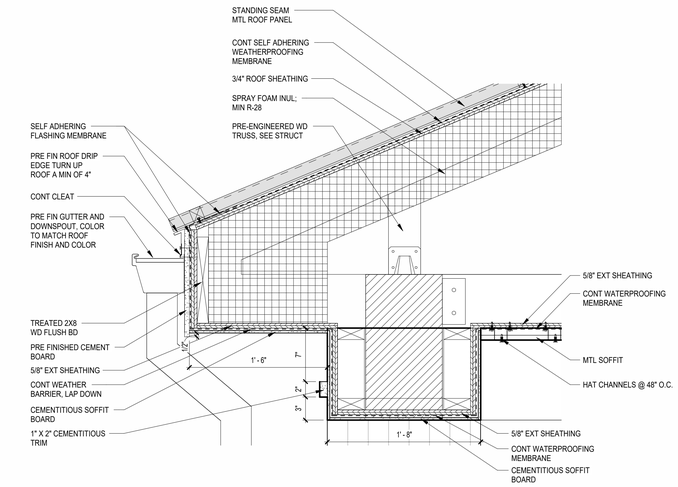
1 A310 WALL SECTION 1
1" = 1'-0"



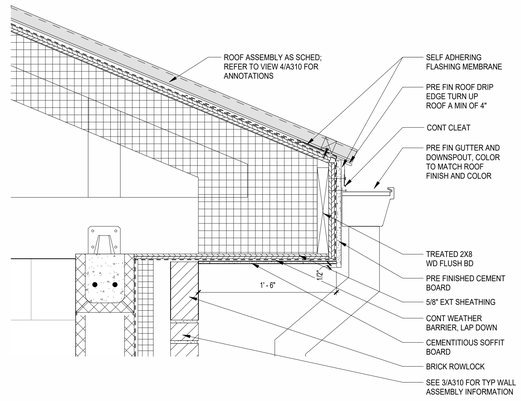
2 A310 WALL SECTION 2
1" = 1'-0"



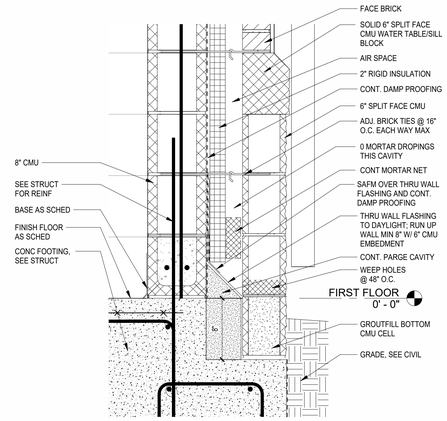
3 A310 WALL SECTION 3
1" = 1'-0"



4 A310 WALL SECTION 1
1 1/2" = 1'-0"



5 A310 TOP PLATE DETAIL 2
1 1/2" = 1'-0"



6 A310 FOOTING DETAIL
1 1/2" = 1'-0"

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REGISTERED ARCHITECT
VANCE JOHNSTON
10191
STATE OF MISSISSIPPI

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
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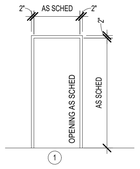
WALL SECTIONS & SECTION DETAILS

SCALE: AS INDICATED
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A310

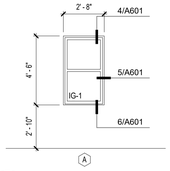
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1 A601 FRAME TYPES
1/4" = 1'-0"



2 A601 DOOR TYPES
1/4" = 1'-0"



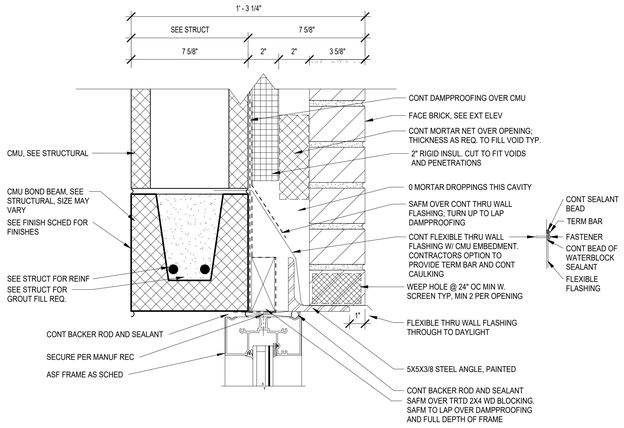
3 A601 WINDOW TYPES
1/4" = 1'-0"

OPENING SCHEDULE

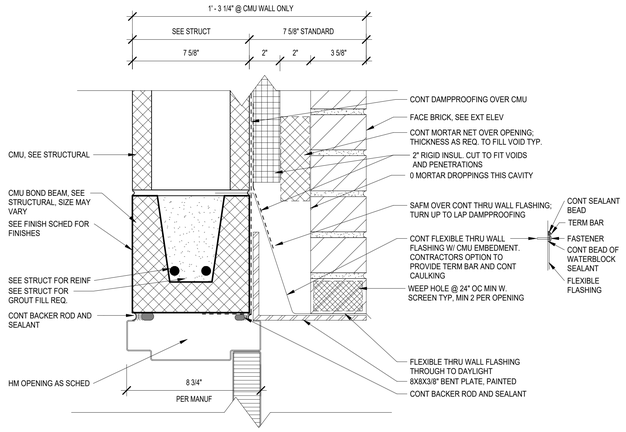
DOOR NO.	DOOR						FRAME						RATING	CLOSER REQ.	SMOKE RATING	ACCESS CONTROL	REMARKS	DOOR NO.
	SINGLE/PAIR	W	H	TYPE	MTL	GLASS	MTL	TYPE	GLASS	HEAD	JAMB	SILL						
101A	S	3' - 0"	7' - 0"	1	HM	---	GHM	1	---	7/A601	8/A601	9/A601	---	Yes		No		101A
102A	S	3' - 0"	7' - 0"	1	HM	---	HM	1	---	10/A601	11/A601	12/A601	---	Yes		No		102A
103A	S	3' - 0"	7' - 0"	1	HM	---	GHM	1	---	7/A601	8/A601	9/A601	---	Yes		No		103A
104A	S	3' - 0"	7' - 0"	2	HM	---	GHM	1	---	7/A601	8/A601	9/A601	---	Yes		No		104A
105A	S	3' - 0"	7' - 0"	2	HM	---	GHM	1	---	7/A601	8/A601	9/A601	---	Yes		No		105A

GLAZING TYPES

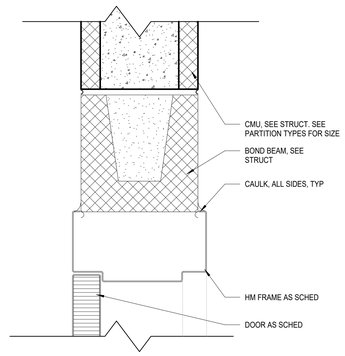
G-2	CLEAR SAFETY GLAZING APPLICATION: INTERIOR GLAZING
G-6	SOLAR CONTROL LAMINATED TINTED GLAZING APPLICATION: EXTERIOR DOOR GLAZING
IG-1	SOLAR CONTROL INSULATED LAMINATED TINTED GLAZING APPLICATION: EXTERIOR OPENING FRAME GLAZING



4 A601 ASF WDW HEAD DETAIL
3" = 1'-0"



7 A601 EXT HM DOOR HEAD DETAIL
3" = 1'-0"

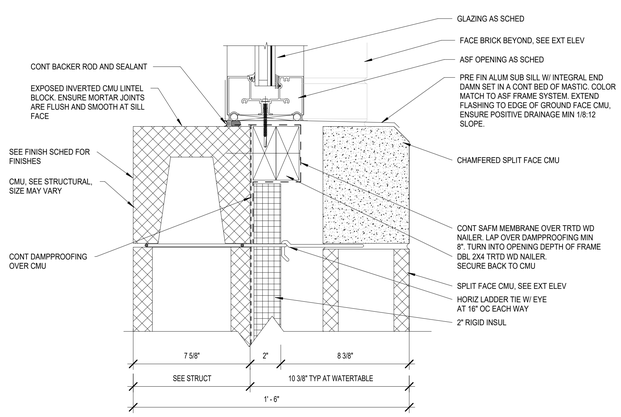


10 A601 INTERIOR HM DOOR HEAD DETAIL
3" = 1'-0"

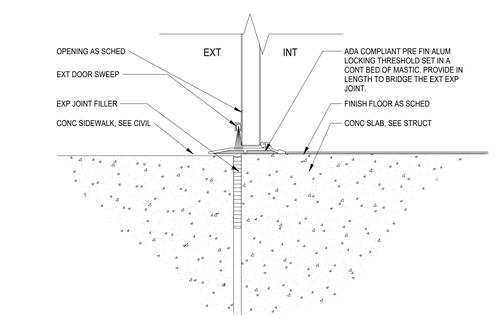
5 A601 ASF WDW JAMB DETAIL
3" = 1'-0"

8 A601 EXT HM DOOR JAMB DETAIL
3" = 1'-0"

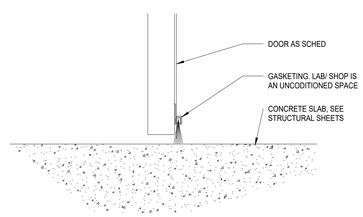
11 A601 INTERIOR HM DOOR JAMB DETAIL
3" = 1'-0"



6 A601 ASF WDW SILL DETAIL
3" = 1'-0"



9 A601 EXT HM DOOR SILL DETAIL
3" = 1'-0"



12 A601 INTERIOR HM DOOR SILL DETAIL
3" = 1'-0"

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS INDICATED
PROJECT NO: 0323.25.002
DRAWN BY: CG
CHECKED BY: VJH

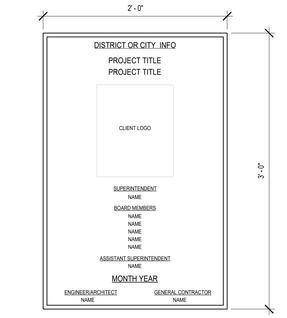
OPENING SCHEDULE & HEAD, JAMB & SILL DETAILS

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.3.1.25	ISSUED FOR CONSTRUCTION

A601

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GRAPHICS SHOWN ARE FOR PRELIMINARY PRESENTATION PURPOSES ONLY. OWNER APPROVAL IS REQUIRED ON FINAL PLAQUE SUBMITTAL. TYPICAL MOUNTING HEIGHT AT 7'-0" TO THE TOP UON.

QUANTITY OF 3: VWSD SOFTBALL, VWSD BASEBALL, & WCHS SOFTBALL

1 / A701 PLAQUE
1 1/2" = 1'-0"

ROOM FINISH SCHEDULE

RM NO.	ROOM NAME	FLOOR FINISH: FINISH FLOOR	FLOOR FINISH: BASE	WALL FINISHES: NORTH	WALL FINISHES: EAST	WALL FINISHES: SOUTH	WALL FINISHES: WEST	CEILING TYPE	REMARKS
101	CONCESSIONS	CSC1	TB1	EP1	EP1	EP1	EP1	ACT1	E
102	STORAGE / JANITOR	CSC1	TB1	PT1	PT1	PT1	PT1	GYP1 (PT2)	E
103	ELECT / COMM	CSC1	---	PT1	PT1	PT1	PT1	GYP1 (PT2)	E
104	MEN RR	CSC1	TB1	EP1 & EP2/3	EP1 & EP2/3	EP1 & EP2/3	EP1 & EP2/3	GYP2 (PT2)	A, B, C, D, E
105	WOMEN RR	CSC1	TB1	EP1 & EP2/3	EP1 & EP2/3	EP1 & EP2/3	EP1 & EP2/3	GYP2 (PT2)	A, B, C, D, E

ROOM SIGNAGE SCHEDULE

DOOR NO.	DOOR SINGLE/PAIR	SIGNAGE REQUIRED	SIGANGE TEXT	ADA SYMBOL	GLAZING MOUNT	DOOR NO.
101A	S	Yes	CONCESSIONS	No	No	101A
102A	S	Yes	STORAGE	No	No	102A
103A	S	Yes	ELECT. / COMM. ROOM	No	No	103A
104A	S	Yes	RESTROOM (MALE/ADA SYMBOLS)	Yes	No	104A
105A	S	Yes	RESTROOM (FEMALE/ADA SYMBOLS)	Yes	No	105A

FINISH KEY SCHEDULE

ITEM:	MATERAL:	PRODUCT:
FLOOR:		
CSC1	COLOR SEALED CONCRETE	SHERWIN WILLIAMS: ARMORSEAL REXTHANE; COLOR: STEEL GRAY
BASE:		
TB1	TILE BASE	DATILE VOL. 1.0: THUNDER
PAINT:		
PT1	FIELD COLOR	SHERWIN WILLIAMS: SW7015 REPOSE GRAY
PT2	GYP CEILING FINISH, TYP	SHERWIN WILLIAMS: SW7004 SNOWBOUND
PT3	@ EXT GHM FRAME & GHM DOOR	SHERWIN WILLIAMS: SW6258 TRICORN BLACK
PT4	@ INT HM FRAME	SHERWIN WILLIAMS: SW6258 TRICORN BLACK
EP1	EPOXY PAINT: FIELD COLOR	SHERWIN WILLIAMS: SW7015 REPOSE GRAY
EP2	EPOXY PAINT: VWSD ACCENT PAINT	SHERWIN WILLIAMS: SW6927 GREENBELT
EP3	EPOXY PAINT: WCHS ACCENT PAINT	SHERWIN WILLIAMS: SW7588 SHOW STOPPER
CEILING:		
ACT1	24X24 ACOUSTIC CEILING TILE	ARMSTRONG: 673 KITCHEN ZONE
GYP1	GYPSUM BOARD	PER SPECIFICATIONS
GYP2	MOISTURE RES GYPSUM BOARD	PER SPECIFICATIONS
MISC:		
PLAM1	PLASTIC LAMINATE: UPPER & LOWER CABINETS, TYP	WILSONART STEEL MESH
GT1	GRANITE TOP	BLACK PEARL GRANITE
---	VWSD ROOM SIGNAGE	BACKGROUND: GREEN- LETTERING: WHITE
---	WCHS ROOM SIGNAGE	BACKGROUND: RED- LETTERING: WHITE
---	VWSD TOILET PARTITIONS	SCRATON PARTITION; BLACK
---	WCHS TOILET PARTITIONS	SCRATON PARTITION; BLUEBERRY

NOTE: GC SHALL VERIFY FINAL FINISHES SELECTIONS WITH OWNER/ARCHITECT PRIOR TO PURCHASE. GC SHALL CONTACT ARCHITECT IF A DISCREPENCY BETWEEN THE FINISH SELECTIONS IN THIS TABLE ARE IN CONFLICT WHITH THAT OF THE SPECIFICATIONS.

GENERAL FINISH NOTES

1. PROVIDE SOLID SURFACE SILL AT ALL WINDOWS
2. PROVIDE MOISTURE MOLD RESISTANT GYPSUM BOARD AT ALL RESTROOM AND LOCKER ROOM LOCATIONS.
3. SEE FINISH FLOOR PLAN FOR FLOOR PATTERN OF FLOORING MATERIALS.
4. PROVIDE FRP PANEL BEHIND MOP SINK.

GENERAL FINISH REMARKS

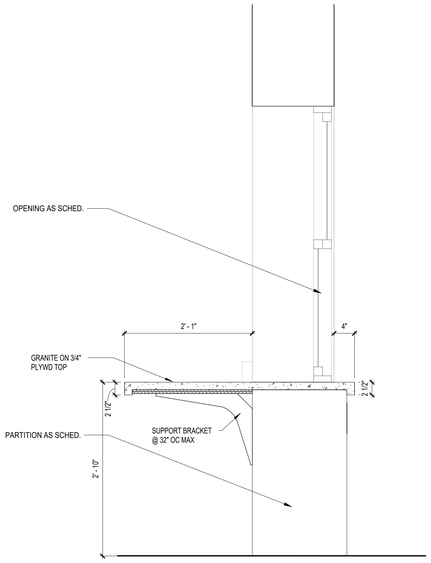
A. INCLUDE NON-SKID TEXTURE ADDITITVE TO COLOR SEALED CONCRETE FLOORING.

B. SEE RESTROOM ACCENT WALL TYPICAL 7/A701.

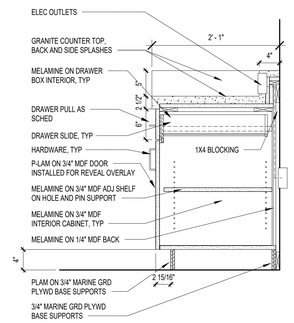
C. ACCENT PAINT LOCATIONS AND EXTENTS ARE CONSISTENT ACROSS ALL SCHOOLS. ACCENT COLOR VARIES BY SCHOOL AS FOLLOWS:
   a. VWSD SOFTBALL- EP2 (SW GREENBELT)
   b. VWSD BASEBALL- EP2 (SW GREENBELT)
   c. WCHS SOFTBALL- EP3 (SW SHOWSTOPPER)

D. PARTITIONS LOCATIONS AND EXTENTS ARE CONSISTENT ACROSS ALL SCHOOLS. PARTITION COLOR VARIES BY SCHOOL AS FOLLOWS:
   a. VWSD SOFTBALL- SCRATION PARTITION; BLACK
   b. VWSD BASEBALL- SCRATION PARTITION; BLACK
   c. WCHS SOFTBALL- SCRATION PARTITION; BLUEBERRY

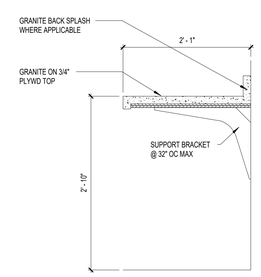
E. SIGNAGE LOCATIONS AND EXTENTS ARE CONSISTENT ACROSS ALL SCHOOLS. SIGNAGE COLOR VARIES BY SCHOOL AS FOLLOWS:
   a. VWSD SOFTBALL- BACKGROUND: GREEN- LETTERING: WHITE
   b. VWSD BASEBALL- BACKGROUND: GREEN- LETTERING: WHITE
   c. WCHS SOFTBALL- BACKGROUND: RED- LETTERING: WHITE



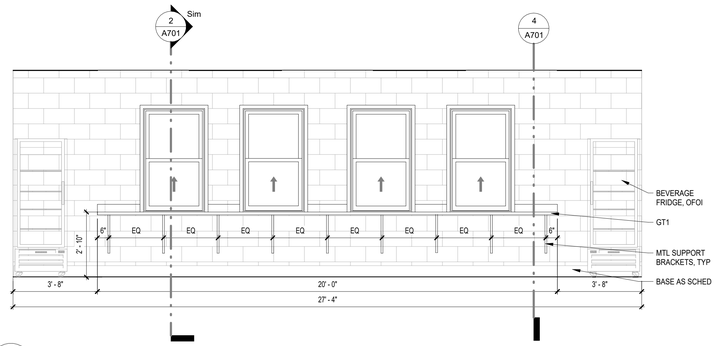
2 / A701 CONCESSION STAND COUNTER SECTION
1" = 1'-0"



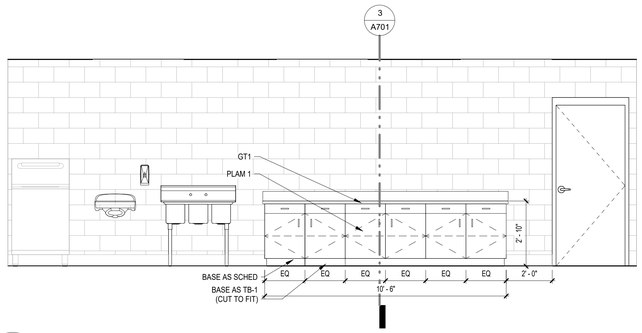
3 / A701 MILLWORK SECTION
1" = 1'-0"



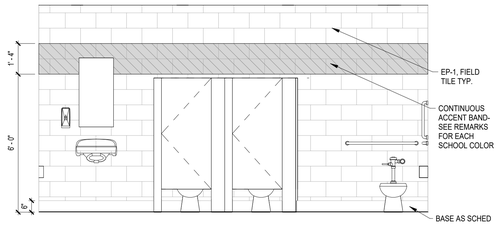
4 / A701 MILLWORK SECTION
1" = 1'-0"



5 / A701 MILLWORK ELEVATION- CONCESSION STAND 1
3/8" = 1'-0"



6 / A701 MILLWORK ELEVATION- CONCESSION STAND 2
3/8" = 1'-0"



7 / A701 ELEVATION RESTROOM- ACCENT WALL PAINT BAND TYPICAL
3/8" = 1'-0"

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SCALE: AS INDICATED
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DRAWN BY: CG
CHECKED BY: VJH

ROOM FINISH SCHEDULE, MILLWORK SECTIONS, & ELEVATIONS

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A701

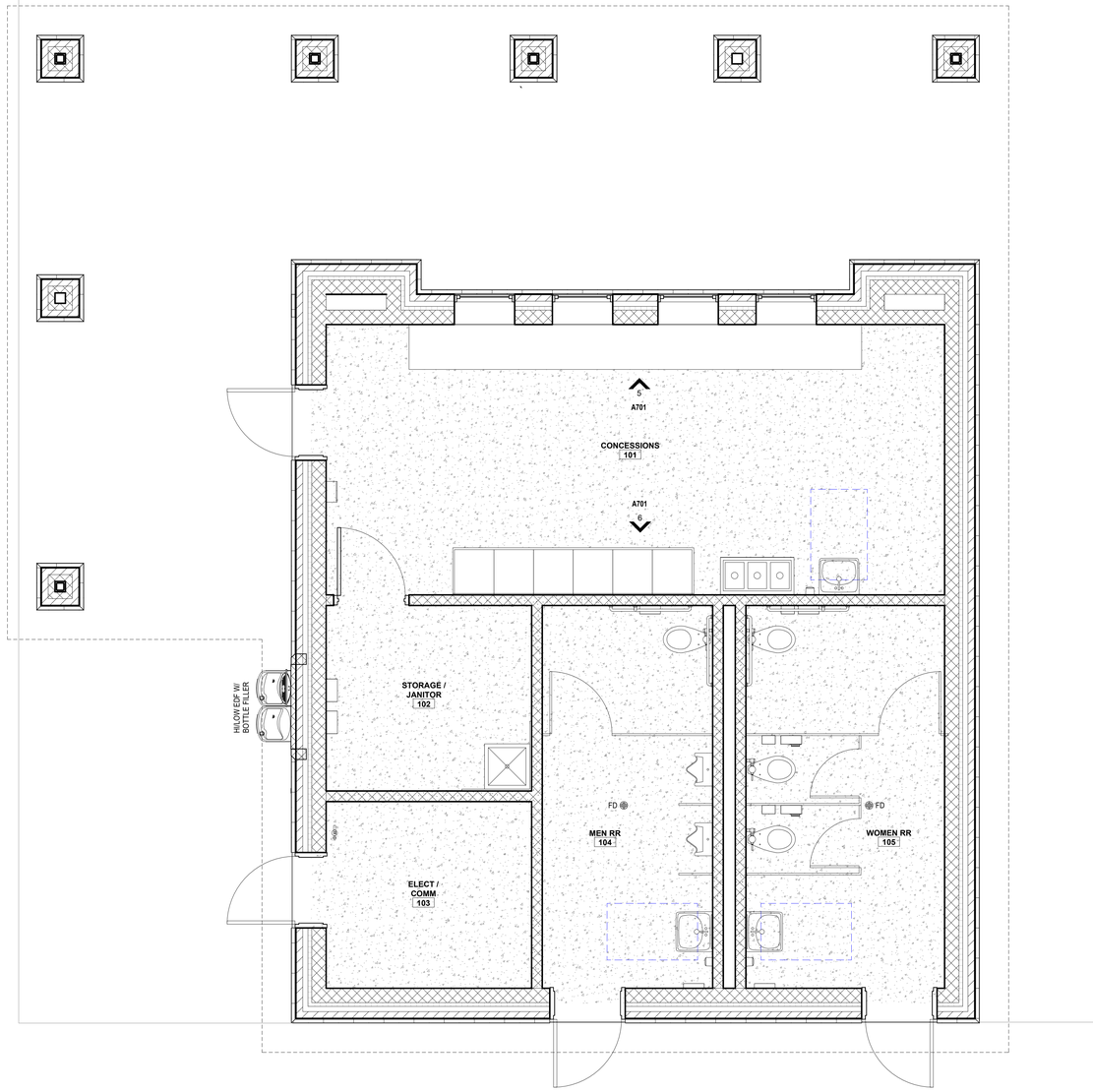
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FINISH FLOOR GEN. NOTES

1. FINISH PLANS ARE SHOWN FOR REFERENCE OF FLOOR FINISH COLOR, FLOOR FINISH PATTERN, AND FLOOR FINISH GRAIN DIRECTION.
2. SEE FINISH SCHEDULE FOR FINISHES NOT INDICATED ON FINISH FLOOR PLANS AND FOR FURTHER INFORMATION.
3. SEE FINISH KEY ON SHEET A701 FOR FURTHER FINISH MATERIAL INFORMATION.

FINISH FLOOR PLAN LEGEND

- CSC-1
- FCO — FLOOR CLEAN OUT
- FD — FLOOR DRAINS



2 / A702 FLOOR PLAN
3/8" = 1'-0"

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FINISH FLOOR PLAN & MILLWORK KEY PLAN

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PLUMBING NOTES

A. GENERAL

1. ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE INTERNATIONAL CODE AND ALL LOCAL ORDINANCES AS ADOPTED BY THE LOCAL JURISDICTION.
2. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR THE COMPLETE INSTALLATION AND OPERATION OF THE SYSTEMS INDICATED ON THE CONTRACT DOCUMENTS AND DRAWINGS EVEN IF NOT SPECIFICALLY SHOWN.
3. THE DRAWINGS ARE, IN PART, DIAGRAMMATIC AND DO NOT ALWAYS SHOW ALL NECESSARY MATERIALS AND EQUIPMENT TO SCALE OR IN EXACT LOCATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL MEASUREMENTS, COORDINATE ALL WORK WITH OTHER TRADES, REVIEW ALL ARCHITECTURAL AND STRUCTURAL DRAWINGS, AND VISIT THE JOBSITE TO MAKE APPROPRIATE MEASUREMENTS.
4. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS AND SHALL PAY ALL ASSOCIATED FEES FOR SCOPE OF WORK.
5. WHEN THE SPECIFICATIONS OR DRAWINGS ARE UNCLEAR OR IN CONFLICT WITH CODES OR OTHER TRADES, THE CONTRACTOR SHALL BRING THIS TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE SUBMITTING A BID.
6. SUBMITTALS AND SHOP DRAWINGS FOR ALL EQUIPMENT, MATERIALS, AND ACCESSORIES SHALL BE PROVIDED TO THE OWNER AND ENGINEER FOR REVIEW AND COMMENT PRIOR TO ORDER, MANUFACTURE, FABRICATION, AND INSTALLATION. FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR OF THE RESPONSIBILITY, CONSEQUENCES, AND POSSIBLE COSTS OF SUCH ACTION OR LACK OF ACTION REGARDLESS OF ANY AND ALL ERRORS OR OMISSIONS ON THESE DOCUMENTS. THIS ENGINEER SHALL NOT BE HELD LIABLE FOR ANY COSTS ASSOCIATED WITH THIS CONTRACTOR'S FAILURE TO COMPLY WITH THIS ITEM. IF SUBSTITUTIONS FOR SPECIFIED ITEMS ARE MADE, IT IS THIS CONTRACTOR'S RESPONSIBILITY TO PROVE PERFORMANCE, COMPATIBILITY, AND CONFORMANCE WITH THE ORIGINAL DESIGN AND SPECIFICATIONS. RE-DESIGN BY THIS ENGINEER TO ACCOMMODATE SUBSTITUTIONS SHALL NOT BE PERFORMED. OTHERWISE, IT WILL BE CONSIDERED ADDITIONAL WORK FOR WHICH COMPENSATION WILL BE REQUIRED.
7. ALL ACTUAL EQUIPMENT, MATERIALS, AND ACCESSORIES TO BE INSTALLED SHALL BE FULLY COORDINATED WITH THE ELECTRICAL, MECHANICAL, CIVIL, STRUCTURAL, AND ARCHITECTURAL CONTRACTORS PRIOR TO ORDER, MANUFACTURE, FABRICATION, AND INSTALLATION. THIS INCLUDES BUT IS NOT LIMITED TO ELECTRICAL DATA, WEIGHTS, PLUMBING REQUIREMENTS, DIMENSIONS, PENETRATIONS, ETC. FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR OF THE RESPONSIBILITY, CONSEQUENCES, AND POSSIBLE COSTS OF SUCH ACTION OR LACK OF ACTION REGARDLESS OF ANY AND ALL ERRORS OR OMISSIONS ON THESE DOCUMENTS. THIS ENGINEER SHALL NOT BE HELD LIABLE FOR ANY COSTS ASSOCIATED WITH THIS CONTRACTOR'S FAILURE TO COMPLY WITH THIS ITEM.
8. ANY AND ALL DEVIATIONS FROM THE DESIGN DOCUMENTS WITHOUT THIS ENGINEER'S APPROVAL INDICATES ACCEPTANCE BY THIS CONTRACTOR AND/OR OWNER FOR THE RESPONSIBILITY OF THE PERFORMANCE OF THE SYSTEM AFFECTED. THIS ENGINEER SHALL NOT BE HELD LIABLE FOR ANY COSTS ASSOCIATED WITH THIS CONTRACTOR'S FAILURE TO FOLLOW THE DESIGN DOCUMENTS. IF MODIFICATIONS TO THE SPECIFIED DESIGN ARE MADE, IT IS THIS CONTRACTOR'S RESPONSIBILITY TO PROVE PERFORMANCE, COMPATIBILITY, AND CONFORMANCE WITH THE ORIGINAL DESIGN AND SPECIFICATIONS. RE-DESIGN BY THIS ENGINEER TO ACCOMMODATE MODIFICATIONS SHALL NOT BE PERFORMED. OTHERWISE, IT WILL BE CONSIDERED ADDITIONAL WORK FOR WHICH COMPENSATION WILL BE REQUIRED. SITE VISITS, INSPECTIONS, CALCULATIONS, COORDINATION, ETC. PERFORMED BY THIS ENGINEER TO INVESTIGATE PROBLEMS ASSOCIATED WITH DESIGN DEVIATIONS WILL ALSO BE CONSIDERED ADDITIONAL WORK FOR WHICH COMPENSATION WILL BE REQUIRED.
9. ANY ERRORS OR OMISSIONS ON THESE DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR REVIEW AND CORRECTION.
10. THE CONSTRUCTION DOCUMENTS ARE COMPRISED OF BOTH DRAWINGS AND SPECIFICATIONS (PROJECT MANUAL). THE GENERAL CONTRACTOR SHALL NOT BREAK OUT SECTIONS TO SUB-CONTRACTORS OR VENDORS.
11. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK OF ALL TRADES TO INSURE A USABLE & FUNCTIONAL END PRODUCT. ANY CONFLICTS BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE CLARIFIED BY THE ARCHITECT/ENGINEER. IF NO CLARIFICATION IS ISSUED THE BIDDER SHALL BID THE MOST STRINGENT PRODUCT OR APPLICATION.
12. IF DISCREPANCIES ARE ENCOUNTERED BETWEEN THE DRAWINGS, DIAGRAMS, DESCRIPTIONS, NOTES, SYMBOLS, AND/OR SPECIFICATIONS, THE MOST STRINGENT PRODUCT OR APPLICATION APPLIES IN ALL CASES. IF A COMPONENT, SYSTEM, EQUIPMENT, POINT, PROGRAM, ETC. IS LISTED IN ONE DOCUMENT BUT NOT ANOTHER, OR IF IT IS NECESSARY FOR THE OPERATION, IT SHALL BE PROVIDED AND INSTALLED.
13. THIS ENGINEER SHALL NOT BE HELD LIABLE FOR COSTS ASSOCIATED WITH ERRORS AND/OR OMISSIONS ON THESE DOCUMENTS IN EXCESS OF THE COST AND/OR TIME FOR THIS ENGINEER TO CORRECT THE DOCUMENTS. IN ANY CASE, THE LIMIT OF LIABILITY FOR THIS ENGINEER SHALL BE NO MORE THAN THE COST OF THIS ENGINEER'S INDIVIDUAL FEE, REGARDLESS OF THE TOTAL DESIGN FEE CHARGED FOR THE SET OF CONSTRUCTION DOCUMENTS.
14. TO THE FULLEST EXTENT PERMITTED BY LAW, THE TOTAL LIABILITY IN THE AGGREGATE, OF THIS ENGINEER AND THIS ENGINEER'S OFFICERS, DIRECTORS, EMPLOYEES, AGENTS, AND INDEPENDENT PROFESSIONAL ASSOCIATES, AND ANY OF THEM, TO OWNER AND ANY ONE CLAIMING BY, THROUGH OR UNDER OWNER, FOR ANY AND ALL INJURIES, CLAIMS, LOSSES, EXPENSES, OR DAMAGES WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATED TO THIS ENGINEER'S SERVICES, THE PROJECT OR THESE DOCUMENTS, FROM ANY CAUSE OR CAUSES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, THE NEGLIGENCE, ERRORS, OMISSIONS, STRICT LIABILITY, BREACH OF CONTRACT, MISREPRESENTATION, OR BREACH OF WARRANTY OF THIS ENGINEER; OR THIS ENGINEER'S OFFICERS, DIRECTORS, EMPLOYEES, AGENTS OR INDEPENDENT PROFESSIONAL ASSOCIATES, OR ANY OF THEM, SHALL NOT EXCEED THE TOTAL COMPENSATION RECEIVED BY THIS ENGINEER FOR SERVICES PROVIDED.
15. THE USE OF THESE DOCUMENTS FOR CONSTRUCTION SIGNIFIES THIS OWNER, TENANT, AND CONTRACTOR'S AGREEMENT WITH THE ABOVE REQUIREMENTS REGARDLESS OF ANY OTHER PRIOR, CURRENT, OR FUTURE AGREEMENT AND/OR CONTRACT.

B. CODES, FEES, PERMITS, ETC.: THE PLUMBING CONTRACTOR SHALL BE PROPERLY LICENSED AND SHALL SECURE ALL PERMITS AND PAY ALL FEES AS REQUIRED FOR THE COMPLETE PLUMBING INSTALLATION, INCLUDING SANITARY SEWER AND POTABLE WATER TIE-INS TO THE SERVING UTILITIES. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE AS AMENDED BY STATE AND COUNTY AUTHORITIES.

C. SCOPE OF WORK: THE WORK CONSISTS OF MATERIALS AND LABOR FOR A COMPLETE, OPERABLE PLUMBING SYSTEM INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

1. SANITARY SEWER SYSTEM, OUTSIDE UTILITIES, SOIL AND WASTE DRAIN AND VENT PIPING AND FIXTURE CONNECTIONS.
2. DOMESTIC COLD AND HOT WATER SYSTEM TO ALL SINKS & LAVATORIES. VERIFY W/ OWNER. PIPING SHALL BE DISINFECTED I.A.W. THE PLUMBING CODE.
3. ALL PLUMBING FIXTURES AND EQUIPMENT INCLUDING FLOOR DRAINS, HOSE BIBBS, WATER HEATERS, ETC. AS REQUIRED. VERIFY LOCATIONS WITH OWNER.
4. PROVIDE TRAP SEAL PROTECTION FOR ALL FLOOR DRAINS AND HUB DRAINS.
5. WATER AND DRAIN PIPING SHALL BE PRESSURE TESTED I.A.W. THE PLUMBING CODE.

D. MATERIALS

1. FIXTURES AND EQUIPMENT ALL FIXTURES AND EQUIPMENT SHALL BE STANDARD, FIRST QUALITY COMPLETE WITH ALL TRIM, TRAPS, ETC., AS REQUIRED OR AS SPECIFIED BY OWNER. TOILETS, URINALS, AND LAVATORIES SHALL BE INSTALLED I.A.W. THE ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.
2. PIPING
   - a. DRAIN, WASTE, VENT, AND SANITARY SEWER PIPING
     - a.1. BELOW GRADE
       - a.1.A. POLYVINYL CHLORIDE (PVC)
         - a.1.A.A. BELOW GRADE DRAIN, WASTE, VENT, AND SANITARY SEWER PIPING SHALL BE DWV SCHEDULE 40 PVC WITH PVC-DWV FITTINGS AND SOLVENT CEMENT JOINTS.
     - a.2. ABOVE GRADE
       - a.2.A. POLYVINYL CHLORIDE (PVC)
         - a.2.A.A. DRAIN, WASTE, VENT, ROOF/STORM DRAINAGE, AND SANITARY SEWER PIPING SHALL BE DWV SCHEDULE 40 PVC WITH PVC-DWV FITTINGS AND SOLVENT CEMENT JOINTS.
       - a.2.B. BRASS
         - a.2.B.A. EXPOSED DRAIN AND WASTE PIPING SHALL BE 17 GAUGE CHROME PLATED BRASS. TRAP JOINTS SHALL BE SLIP TYPE WITH CHROME PLATED BRASS NUTS AND COMPRESSION GASKETS. CHROME PLATED BRASS ESCUTCHEON PLATES SHALL BE INSTALLED AT WALL PENETRATIONS.
         - a.2.B.B. EXPOSED DRAIN AND WASTE PIPING IN ADA INSTALLATIONS SHALL BE COVERED WITH ADA COMPLIANT MOLDED VINYL JACKET COVERS PRECISELY FITTED TO INSTALLED PIPING.
   - b. DOMESTIC WATER
     - b.1. ABOVE GRADE-CONCEALED- PEX-A WITH GALVANIZED STEEL SUPPORT CHANNEL.
     - b.2. ABOVE GRADE-EXPOSED-(I.E AT WATER HEATER, ETC) – TYPE L HARD DRAWN COPPER WITH WROT COPPER FITTINGS AND SOLDERED JOINTS.
     - b.3. BELOW GRADE, INSIDE STRUCTURE-POLYETHYLENE COATED TYPE K SOFT COPPER TUBING WITH NO JOINTS BELOW SLAB. COATED PIPE SHALL EXTEND THROUGH THE BUILDING SLAB IF PRESENT.
     - b.4. BELOW GRADE, OUTSIDE STRUCTURE-POLYETHYLENE COATED TYPE K HARD DRAWN COPPER WITH POLYETHYLENE COATED WROT COPPER FITTINGS AND BRAZED JOINTS.
     - b.5. INSULATION
       - b.5.A. COLD WATER: INSULATE ALL PIPING ABOVE SLAB OR GRADE (INCLUDING TRAP PRIMERS) WITH 1/2" THICK FIBERGLASS WITH VAPOR SEAL. ALL PIPING IN PLENUM AREAS SHALL BE INSULATED WITH INSULATION WITH A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50
       - b.5.B. HOT WATER: INSULATE ALL PIPING 1-1/4" OR SMALLER WITH 1" THICK FIBERGLASS. INSULATE ALL PIPING 1-1/2" OR LARGER WITH 1-1/2" THICK FIBERGLASS. ALL PIPING IN PLENUM AREAS SHALL BE INSULATED WITH INSULATION WITH A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50
       - b.5.C. EXPOSED PIPE AND FITTING INSULATION IN FINISHED AREAS SHALL BE JACKETED WITH FACTORY COLORED PVC INSULATION JACKETING. SUBMIT COLORS FOR APPROVAL.
       - b.5.D. EXPOSED EXTERIOR PIPE AND FITTINGS SHALL BE HEAT TRACED AND JACKETED WITH ALUMINUM AND SEALED WEATHERTIGHT.
     - b.6. ALL HOT WATER SUPPLIES SHALL BE EQUIPPED WITH ANTI-SCALD/TEMPERING DEVICES CONFORMING TO ASSE 1070. LAVATORY AND HAND WASH DEVICES SHALL LIMIT THE TEMPERATURE TO NO MORE THAN 110F. THE WATER HEATER SHALL BE SET TO NO MORE THAN 120F.
     - b.7. PROVIDE WATER HAMMER ARRESTORS FOR HOT AND COLD WATER SUPPLY AT ALL HARD SHUTOFF DEVICES (LAVATORIES, SINKS, DRINKING FOUNTAINS, DISHWASHERS, CLOTHES WASHERS, ETC.).
   - c. DIELECTRIC UNIONS SHALL BE INSTALLED AT ALL DIS-SIMILAR METAL CONNECTIONS. DIS-SIMILAR HANGER TO PIPE, HANGER TO STRUCTURE, OR PIPE TO STRUCTURE CONTACT SHALL BE ISOLATED. THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
     - c.1. COPPER TO STEEL
     - c.2. CAST IRON TO STAINLESS STEEL
     - c.3. STAINLESS STEEL TO STEEL
     - c.4. BRASS TO STEEL
     - c.5. BRONZE TO STEEL

E. PRESSURE TESTING

1. SANITARY, DRAIN, WASTE, AND VENT
   - a. PLUG ALL OPENINGS EXCEPT THOSE AT THE UPPERMOST 10 FT OF THE SYSTEM.
   - b. FILL SYSTEM WITH WATER TO MAINTAIN NO LESS THAN 10 FT HEAD ON ALL JOINTS AND PIPES BELOW THE UPPERMOST 10 FT OF THE SYSTEM. MAINTAIN PRESSURE FOR 12 HOURS.
   - c. IF LOSS OF PRESSURE OCCURS, LOCATE AND REPAIR LEAKS AND REPEAT TEST PROCEDURE.
   - d. DOCUMENT TEST AND PROVIDE TO OWNER. INSPECTION BY LOCAL AUTHORITY MAY BE REQUIRED.
2. WATER SUPPLY
   - a. ALL SYSTEM PIPES AND JOINTS SHALL BE TESTED.
   - b. ISOLATE PORTION OF SYSTEM TO BE TESTED WITH SHUTOFF VALVES AND/OR CAPS.
   - c. FILL SYSTEM WITH AIR (FOR PIPE OTHER THAN PLASTIC) OR WATER (FOR PLASTIC PIPE) TO A PRESSURE OF 100 PSI. MAINTAIN PRESSURE FOR 12 HOURS.
   - d. IF LOSS OF PRESSURE OCCURS, LOCATE AND REPAIR LEAKS AND REPEAT TEST PROCEDURE.
   - e. DOCUMENT TEST AND PROVIDE TO OWNER. INSPECTION BY LOCAL AUTHORITY MAY BE REQUIRED.

F. DISINFECTION OF DOMESTIC WATER PIPING SYSTEM

1. PRIOR TO STARTING WORK, VERIFY SYSTEM IS COMPLETE, FLUSHED, AND CLEAN.
2. ENSURE PH OF WATER TO BE TREATED IS BETWEEN 7.4 AND 7.6 BY ADDING ALKALI (CAUSTIC SODA OR SODA ASH) OR ACID (HYDROCHLORIC).
3. INJECT DISINFECTANT (FREE CHLORINE IN LIQUID, POWDER, TABLET OR GAS FORM) THROUGHOUT SYSTEM TO OBTAIN 50 TO 80 MG/L RESIDUAL.
4. BLEED WATER FROM OUTLETS TO ENSURE DISTRIBUTION AND TEST FOR DISINFECTANT RESIDUAL AT MINIMUM 15 PERCENT OF OUTLETS.
5. MAINTAIN DISINFECTANT IN SYSTEM FOR 24 HOURS.
6. TEST FOR DISINFECTANT RESIDUAL. IF FINAL DISINFECTANT RESIDUAL TESTS LESS THAN 25 MG/L, REPEAT TREATMENT.
7. FLUSH DISINFECTANT FROM SYSTEM UNTIL RESIDUAL IS EQUAL TO THAT OF INCOMING WATER OR 1.0 MG/L.
8. TAKE SAMPLES NO SOONER THAN 24 HOURS AFTER FLUSHING FROM 10 PERCENT OF OUTLETS AND FROM WATER ENTRY. ANALYZE IN ACCORDANCE WITH AWWA C651. REPEAT ENTIRE PROCEDURE IF CONTAMINATION REMAINS.
9. DOCUMENT DISINFECTION AND PROVIDE TO OWNER. INSPECTION BY LOCAL AUTHORITY MAY BE REQUIRED.

G. ALL PIPING SHALL BE LABELED IN ACCORDANCE WITH ASTM STANDARD A13.1. LABELS SHALL INCLUDE PIPING SERVICE (COLD WATER, HOT WATER, HOT WATER RETURN, VENT, ETC.), SIZE, AND DIRECTION OF FLOW.

H. THE FINISHED FLOOR OF ALL AREAS SERVED BY A FLOOR DRAIN SHALL BE SLOPED A MINIMUM OF 1/16" PER FOOT DOWNWARD TOWARD THE FLOOR DRAIN. THE SLOPE SHALL BE CONTINUOUS AND CONSISTENT FOR THE ENTIRE AREA BOUND BY THE ENCLOSING WALLS UNLESS OTHERWISE INDICATED IN THE ARCHITECTURAL OR FOUNDATION PLANS. THE TOP OF THE FLOOR DRAIN STRAINER SHALL BE THE LOWEST POINT IN THE SLOPED AREA, SHALL BE INSTALLED LEVEL, AND SHALL BE INSTALLED FLUSH WITH THE SURROUNDING FINISHED FLOOR. COORDINATE WITH GC.

I. COORDINATE ALL REQUIRED WALL, FLOOR, CEILING, AND ROOF PENETRATION LOCATIONS AND SIZES WITH THE GC PRIOR TO CONSTRUCTION. GC SHALL PROVIDE ALL REQUIRED FRAMED OPENINGS, HEADERS, MASONRY OPENINGS, LINTELS, ETC. AS NECESSARY.

J. COORDINATE ALL PIPE & FIXTURE LOCATIONS, SIZES, AND ROUTING WITH GC PRIOR TO CONSTRUCTION. GC SHALL PROVIDE A CLEAR PATH THROUGH FRAMING AND MASONRY COMPONENTS TO ACCOMMODATE PIPE ROUTING.

PLUMBING ABBREVIATIONS

A	
A	AMPS
AFF	ABOVE FINISHED FLOOR
ASSE	AMERICAN SOCIETY OF SAFETY ENGINEERS
C	
CA	COMPRESSED AIR
CFH	CUBIC FEET PER HOUR
CO	CLEAN OUT
CO2	CARBON DIOXIDE
CS	CARBON STEEL
CW	COLD WATER
C3H6	PROPYLENE
D	
D	DRAIN
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
E	
EC	ELECTRICAL CONTRACTOR
F	
F	FAHRENHEIT
FCO	FLOOR CLEAN OUT
FT	FOOT/FEET
G	
GAL	GALLONS
GC	GENERAL CONTRACTOR
GCO	GRADE CLEAN OUT
GOX	GASEOUS OXYGEN
H	
HB	HOSE BIB
HP	HORSEPOWER
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
K	
KW	KILOWATT
L	
LBS	POUNDS
M	
MAX	MAXIMUM
MBH	ONE THOUSAND BRITISH THERMAL UNITS PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
N	
NPT	NATIONAL PIPE TAPER
NRS	NON RISING STEM
NTS	NOT TO SCALE
P	
PC	PLUMBING CONTRACTOR
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PW	POTABLE WATER
R	
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
S	
S	SANITARY
SAN	SANITARY SEWER
SCO	SIDEWALK CLEANOUT
SP	SPARE
SQFT	SQUARE FEET
SW	SERVICE WATER
T	
TBD	TO BE DETERMINED
TW	TEMPERED WATER
T&P	TEMPERATURE AND PRESSURE
TYP	TYPICAL
V	
V	VOLTAGE OR VENT
VTR	VENT TO ROOF
W	
W	WATT
WCO	WALL CLEAN OUT
WH	WATER HEATER
#	
94-6	94% ARGON, 6% CARBON DIOXIDE

PLUMBING SYMBOLS

	COLD WATER
	EXISTING COLD WATER
	HOT WATER
	EXISTING HOT WATER
	HOT WATER RETURN
	EXISTING HOT WATER RETURN
	SANITARY
	EXISTING SANITARY
	VENT
	EXISTING VENT
GAS GAS	GAS
GAS GAS	EXISTING GAS
	FIRE PROTECTION
	EXISTING FIRE PROTECTION
	EXISTING TO BE REMOVED
	LEVER BALL VALVE
	HOSE BIB
	CONNECT TO EXISTING
	CAP AND SEAL
	ELBOW UP
GCO	GRADE CLEAN OUT
	CROSS
	DOUBLE SANITARY TEE
	DOUBLE SANITARY VENT TEE
	DOUBLE WYE
	ELBOW DOWN
	ELBOW DOWN TO TEE
CO	CLEANOUT
	SANITARY TEE
	SANITARY VENT TEE
	TEE
	TEE DOWN
	TEE UP
	LONG RADIUS ELBOW
	WYE
	SANITARY VENT TEE UP
	LONG RADIUS 45° ELBOW
	MITER ELBOW
	SANITARY VENT WYE
6" EXISTING	EXISTING DOMESTIC WATER LINE
6" DCW	DOMESTIC COLD WATER
6" DHW	DOMESTIC HOT WATER
6" SAN	SANITARY SEWER
6" V	SANITARY VENT
6" STM	STORM DRAIN
6" EXISTING	EXISTING SANITARY SEWER
6" MPFW	MEDIUM PRESSURE FIRE WATER
6" FW	FIRE WATER

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JIMCAH VAN DUNK CAMPBELL — ENGINEER — REGISTERED PROFESSIONAL — 18922 — STATE OF MISSISSIPPI — 10.31.2025

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

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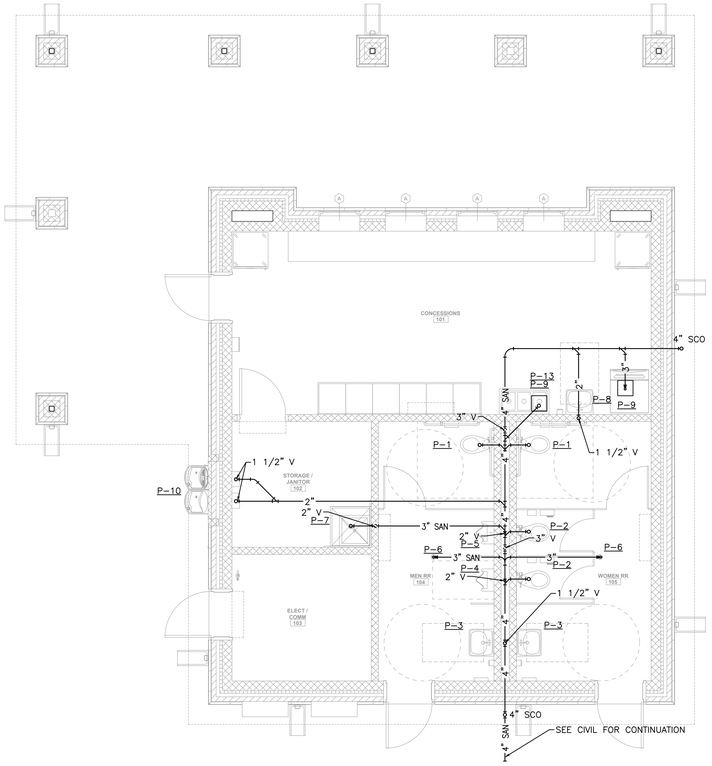
PLUMBING NOTES, SYMBOLS AND ABBREVIATIONS

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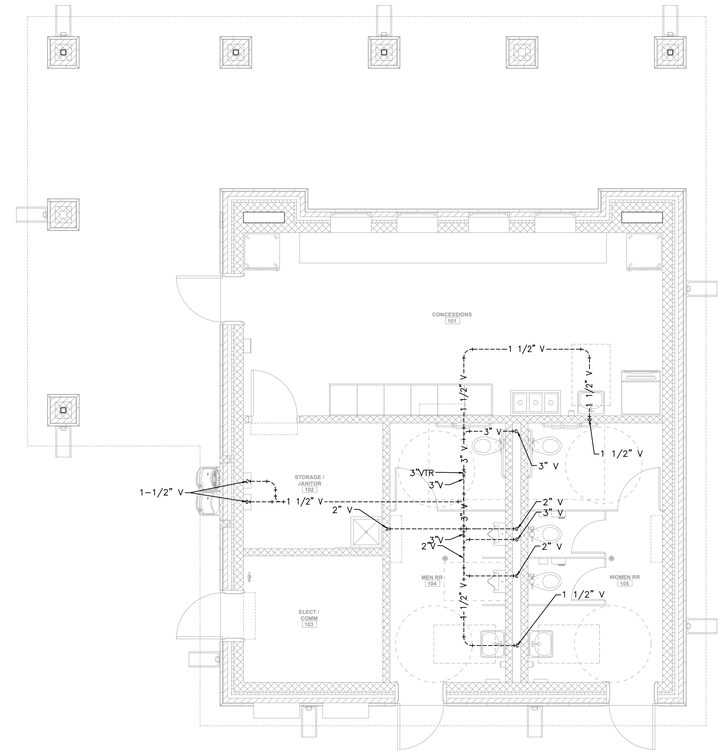
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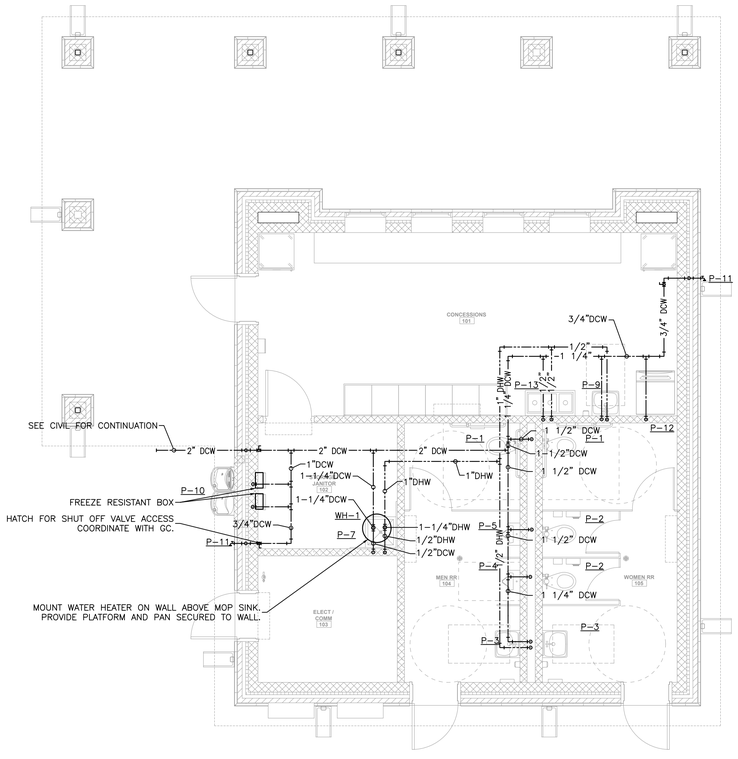
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1 SANITARY SEWER PLAN
SCALE: 1/4"=1'-0"



2 SANITARY VENT PLAN
SCALE: 1/4"=1'-0"



3 DOMESTIC WATER PLAN
SCALE: 1/4"=1'-0"

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REGISTERED PROFESSIONAL ENGINEER
16922
STATE OF MISSISSIPPI
10.31.2025

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

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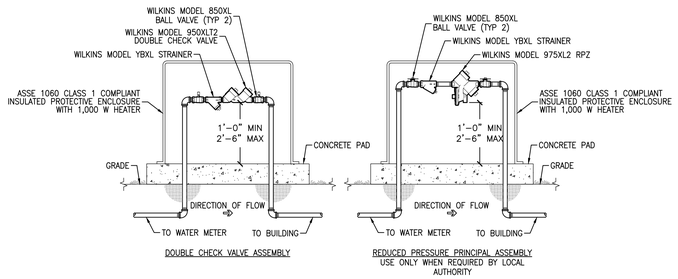
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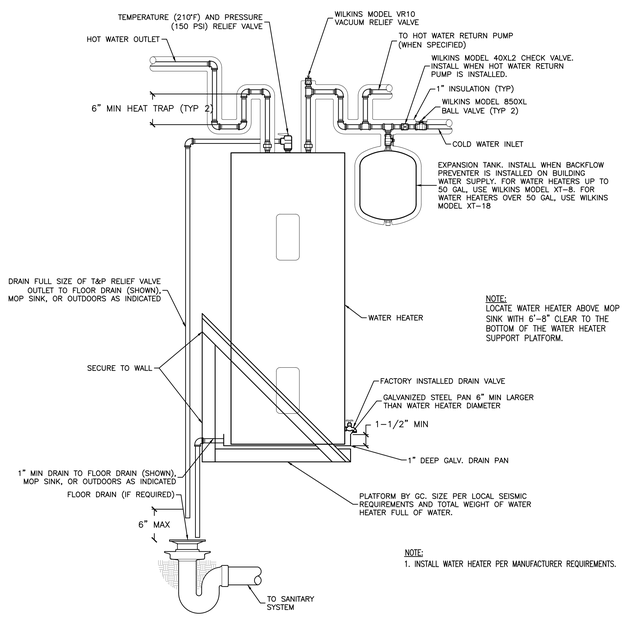
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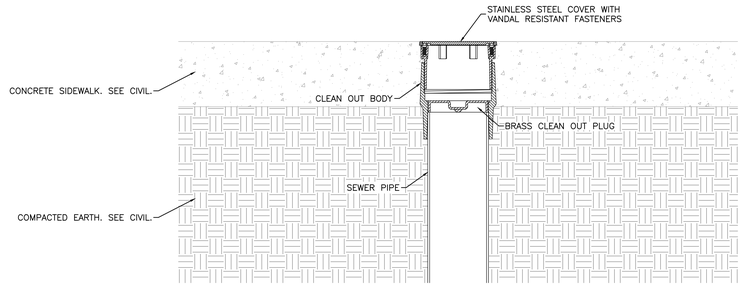
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1 DOMESTIC BACKFLOW PREVENTER DETAIL
SCALE: NTS



2 WATER HEATER PIPING DETAIL
SCALE: NTS



3 SIDEWALK CLEANOUT DETAIL
SCALE: NTS

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JUSTIN ANDREW VAN DUNK
REGISTERED PROFESSIONAL ENGINEER
18922
STATE OF MISSISSIPPI
10.31.2025

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE:	1/4"=1'0"
PROJECT NO:	0323.25.002
DRAWN BY:	TJA
CHECKED BY:	JMV

PLUMBING DETAILS

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PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MAKE	MODEL	CONNECTIONS				NOTES
				CW	HW	TW	D	
P-1	ADA FLOOR MOUNT WATER CLOSET-FV	ZURN	Z5665-BWL1	1"	N/A	N/A	3"	1,2,3,4
P-2	FLOOR MOUNT WATER CLOSET-FV	ZURN	Z5665-BWL1	1"	N/A	N/A	3"	2,3,5
P-3	ADA WALL MOUNT LAVATORY	ZURN	Z5361-PED	1/2"	1/2"	3/8"	1-1/4"	1,6,7,8,9,13,14,15
P-4	ADA URINAL	ZURN	Z5755-U	3/4"	N/A	N/A	2"	1,10,15
P-5	URINAL	ZURN	Z5755-U	3/4"	N/A	N/A	2"	5,10,15
P-6	3" FLOOR DRAIN	ZURN	ZN415B-VP	N/A	N/A	N/A	3"	11,16
P-7	MOP SINK	ACORN	TSH-24-BDS-SSC-KF-KFC-KH36-KMH-KWG	1/2"	1/2"	N/A	3"	12
P-8	ADA HAND SINK	BK RESOURCES	BKHS-ADA-D-P-G	1/2"	1/2"	N/A	1-1/2"	1,15,23
P-9	FLOOR SINK	ZURN	Z1900-1	N/A	N/A	N/A	3"	16
P-10	ADA DRINKING FOUNTAIN/BOTTLE FILLER	ELKAY	EDFP217FPK	(2)1/2"	N/A	N/A	(2)1-1/2"	1,15,17,21,22
P-11	WALL HYDRANT	WOODFORD	B65	3/4"	N/A	N/A	N/A	20
P-12	ICE MACHINE	N/A	N/A	1/2"	N/A	N/A	(2) 3/4" & 3/8"	23
P-13	3 COMPARTMENT SINK	ELKAY	3C10X14-0X	1/2"	1/2"	N/A	1-1/2"	24,25
4" SCO	4" SIDEWALK CLEAN OUT	ZURN	ZN1400-BP-VP	N/A	N/A	N/A	4"	11,19

1 MOUNT WITH ADA CLEARANCES
2 WITH ZURN Z5955SS-EL SEAT
3 WITH ZURN ZEMS6000AV-WS1-FM12-MOB-HW6 HARDWIRED SENSOR FLUSH VALVE
4 OVERRIDE BUTTON SHALL BE MOUNTED TOWARD OPEN SIDE OF STALL
5 MOUNT WITH STANDARD CLEARANCES
6 WITH ZURN Z6913-XL-TMV-1-HW6-MJ-F HARDWIRED SENSOR FAUCET
7 WITH PVC P-TRAP
8 WITH BALL VALVE STOPS AND FLEXIBLE SUPPLIES
9 WITH ASSE 1070 COMPLIANT MIXING VALVE
10 WITH ZURN ZEMS6003AV-IS-MOB-ULF-HW6 HARDWIRED SENSOR FLUSH VALVE
11 WITH VANDAL RESISTANT SCREWS
12 WITH DOME STRAINER, TILING FLANGES, WALL GUARDS, STAINLESS CAP, MOP HANGER, FAUCET, & HOSE
13 SINGLE HOLE DRILLING
14 WITH ACYRLIC SHROUD
15 WITH HEAVY DUTY WALL CARRIER
16 WITH ASSE 1072 COMPLIANT TRAP SEAL PROTECTOR
17 WITH CANE APRON
18 LESS GRATE
19 WITH BRASS PLUG
20 COORDINATE WALL THICKNESS AND CLAMP COLLAR WITH ARCHITECTURE
21 VANDAL RESISTANT
22 WITH TWO ELKAY LKFRB1 FREEZE RESISTANT BOXES
23 OWNER PROVIDED, CONTRACTOR INSTALLED.
24 WITH ELKAY LK940AT10T4H FAUCET
25 WITH STAINLESS STEEL CONSTRUCTION
26 WITH ADA DRAIN AND SUPPLY COVERS

WATER HEATER SCHEDULE

TAG	MAKE	MODEL	GAL	100°F RECOVERY	V/PH	KW	FLA	NOTES
WH-1	RHEEM	EGSP30	30	24	208/1	6	28.8	1,2,3

1 WITH T&P RELIEF VALVE
2 WITH DRAIN VALVE
3 WITH 3 YEAR TANK WARRANTY

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MECHANICAL NOTES

A. GENERAL

1. ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE INTERNATIONAL CODE AND ALL LOCAL ORDINANCES AS ADOPTED BY THE LOCAL JURISDICTION.

2. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR THE COMPLETE INSTALLATION AND OPERATION OF THE SYSTEMS INDICATED ON THE CONTRACT DOCUMENTS AND DRAWINGS EVEN IF NOT SPECIFICALLY SHOWN.

3. THE DRAWINGS ARE, IN PART, DIAGRAMMATIC AND DO NOT ALWAYS SHOW ALL NECESSARY MATERIALS AND EQUIPMENT TO SCALE OR IN EXACT LOCATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK ALL MEASUREMENTS, COORDINATE ALL WORK WITH OTHER TRADES, REVIEW ALL ARCHITECTURAL AND STRUCTURAL DRAWINGS, AND VISIT THE JOBSITE TO MAKE APPROPRIATE MEASUREMENTS.

4. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS AND SHALL PAY ALL ASSOCIATED FEES FOR SCOPE OF WORK.

5. WHEN THE SPECIFICATIONS OR DRAWINGS ARE UNCLEAR OR IN CONFLICT WITH CODES OR OTHER TRADES, THE CONTRACTOR SHALL BRING THIS TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE SUBMITTING A BID.

6. SUBMITTALS AND SHOP DRAWINGS FOR ALL EQUIPMENT, MATERIALS, AND ACCESSORIES SHALL BE PROVIDED TO THE OWNER AND ENGINEER FOR REVIEW AND COMMENT PRIOR TO ORDER, MANUFACTURE, FABRICATION, AND INSTALLATION. FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR OF THE RESPONSIBILITY, CONSEQUENCES, AND POSSIBLE COSTS OF SUCH ACTION OR LACK OF ACTION REGARDLESS OF ANY AND ALL ERRORS OR OMISSIONS ON THESE DOCUMENTS. THIS ENGINEER SHALL NOT BE HELD LIABLE FOR ANY COSTS ASSOCIATED WITH THIS CONTRACTOR'S FAILURE TO COMPLY WITH THIS ITEM. IF SUBSTITUTIONS FOR SPECIFIED ITEMS ARE MADE, IT IS THIS CONTRACTOR'S RESPONSIBILITY TO PROVE PERFORMANCE, COMPATIBILITY, AND CONFORMANCE WITH THE ORIGINAL DESIGN AND SPECIFICATIONS. RE-DESIGN BY THIS ENGINEER TO ACCOMMODATE SUBSTITUTIONS SHALL NOT BE PERFORMED. OTHERWISE, IT WILL BE CONSIDERED ADDITIONAL WORK FOR WHICH COMPENSATION WILL BE REQUIRED.

7. ALL ACTUAL EQUIPMENT, MATERIALS, AND ACCESSORIES TO BE INSTALLED SHALL BE FULLY COORDINATED WITH THE ELECTRICAL, PLUMBING, CIVIL, STRUCTURAL, AND ARCHITECTURAL CONTRACTORS PRIOR TO ORDER, MANUFACTURE, FABRICATION, AND INSTALLATION. THIS INCLUDES BUT IS NOT LIMITED TO ELECTRICAL DATA, WEIGHTS, PLUMBING REQUIREMENTS, DIMENSIONS, PENETRATIONS, ETC. FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR OF THE RESPONSIBILITY, CONSEQUENCES, AND POSSIBLE COSTS OF SUCH ACTION OR LACK OF ACTION REGARDLESS OF ANY AND ALL ERRORS OR OMISSIONS ON THESE DOCUMENTS. THIS ENGINEER SHALL NOT BE HELD LIABLE FOR ANY COSTS ASSOCIATED WITH THIS CONTRACTORS FAILURE TO COMPLY WITH THIS ITEM.

8. ANY AND ALL DEVIATIONS FROM THE DESIGN DOCUMENTS WITHOUT THIS ENGINEER'S APPROVAL INDICATES ACCEPTANCE BY THIS CONTRACTOR AND/OR OWNER FOR THE RESPONSIBILITY OF THE PERFORMANCE OF THE SYSTEM AFFECTED. THIS ENGINEER SHALL NOT BE HELD LIABLE FOR ANY COSTS ASSOCIATED WITH THIS CONTRACTOR'S FAILURE TO FOLLOW THE DESIGN DOCUMENTS. IF MODIFICATIONS TO THE SPECIFIED DESIGN ARE MADE, IT IS THIS CONTRACTOR'S RESPONSIBILITY TO PROVE PERFORMANCE, COMPATIBILITY, AND CONFORMANCE WITH THE ORIGINAL DESIGN AND SPECIFICATIONS. RE-DESIGN BY THIS ENGINEER TO ACCOMMODATE MODIFICATIONS SHALL NOT BE PERFORMED. OTHERWISE, IT WILL BE CONSIDERED ADDITIONAL WORK FOR WHICH COMPENSATION WILL BE REQUIRED. SITE VISITS, INSPECTIONS, CALCULATIONS, COORDINATION, ETC. PERFORMED BY THIS ENGINEER TO INVESTIGATE PROBLEMS ASSOCIATED WITH DESIGN DEVIATIONS WILL ALSO BE CONSIDERED ADDITIONAL WORK FOR WHICH COMPENSATION WILL BE REQUIRED.

9. ANY ERRORS OR OMISSIONS ON THESE DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR REVIEW AND CORRECTION.

10. THE CONSTRUCTION DOCUMENTS ARE COMPRISED OF BOTH DRAWINGS AND SPECIFICATIONS (PROJECT MANUAL). THE GENERAL CONTRACTOR SHALL NOT BREAK OUT SECTIONS TO SUB-CONTRACTORS OR VENDORS.

11. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK OF ALL TRADES TO INSURE A USABLE & FUNCTIONAL END PRODUCT. ANY CONFLICTS BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE CLARIFIED BY THE ARCHITECT/ENGINEER. IF NO CLARIFICATION IS ISSUED THE BIDDER SHALL BID THE MOST STRINGENT PRODUCT OR APPLICATION.

12. IF DISCREPANCIES ARE ENCOUNTERED BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT PRODUCT OR APPLICATION OVERRIDES IN ALL CASES.

13. THIS ENGINEER SHALL NOT BE HELD LIABLE FOR COSTS ASSOCIATED WITH ERRORS AND/OR OMISSIONS ON THESE DOCUMENTS IN EXCESS OF THE COST AND/OR TIME FOR THIS ENGINEER TO CORRECT THE DOCUMENTS. IN ANY CASE, THE LIMIT OF LIABILITY FOR THIS ENGINEER SHALL BE NO MORE THAN THE COST OF THIS ENGINEER'S INDIVIDUAL FEE, REGARDLESS OF THE TOTAL DESIGN FEE CHARGED FOR THE SET OF CONSTRUCTION DOCUMENTS.

14. TO THE FULLEST EXTENT PERMITTED BY LAW, THE TOTAL LIABILITY IN THE AGGREGATE, OF THIS ENGINEER AND THIS ENGINEER'S OFFICERS, DIRECTORS, EMPLOYEES, AGENTS, AND INDEPENDENT PROFESSIONAL ASSOCIATES, AND ANY OF THEM, TO OWNER AND ANY ONE CLAIMING BY, THROUGH OR UNDER OWNER, FOR ANY AND ALL INJURIES, CLAIMS, LOSSES, EXPENSES, OR DAMAGES WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATED TO THIS ENGINEER'S SERVICES, THE PROJECT OR THESE DOCUMENTS, FROM ANY CAUSE OR CAUSES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, THE NEGLIGENCE, ERRORS, OMISSIONS, STRICT LIABILITY, BREACH OF CONTRACT, MISREPRESENTATION, OR BREACH OF WARRANTY OF THIS ENGINEER; OR THIS ENGINEER'S OFFICERS, DIRECTORS, EMPLOYEES, AGENTS OR INDEPENDENT PROFESSIONAL ASSOCIATES, OR ANY OF THEM, SHALL NOT EXCEED THE TOTAL COMPENSATION RECEIVED BY THIS ENGINEER FOR SERVICES PROVIDED.

15. THE USE OF THESE DOCUMENTS FOR CONSTRUCTION SIGNIFIES THIS OWNER, TENANT, AND CONTRACTORS AGREEMENT WITH THE ABOVE REQUIREMENTS REGARDLESS OF ANY OTHER PRIOR, CURRENT, OR FUTURE AGREEMENT AND/OR CONTRACT.

B. DUCTWORK

1. ALL DUCT SIZES ON THE PLANS ARE CLEAR, INSIDE DIMENSIONS.

2. ALL EXHAUST DUCTWORK SHALL BE SHEET METAL CONSTRUCTION. FLEXIBLE DUCTWORK IS NOT ACCEPTABLE.

3. ALL SHEET METAL DUCT CONNECTIONS TO ANY FAN POWERED EQUIPMENT SHALL BE MADE WITH FLEXIBLE DUCT CONNECTORS 3" MIN IN LENGTH.

4. LOW PRESSURE DUCTWORK

   a. ALL SUPPLY DUCTWORK, RETURN DUCTWORK, AND EXHAUST DUCTWORK SHALL BE CONSTRUCTED TO 2" WG PRESSURE CLASS STANDARDS AND SHALL CONFORM TO THE LATEST EDITIONS OF THE SMACNA DUCT CONSTRUCTION STANDARDS.

   b. ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTION UNLESS OTHERWISE NOTED IN THIS SECTION. SHEET METAL GAUGE SHALL BE AS PER SMACNA DUCT CONSTRUCTION STANDARDS (28 GAUGE OR LESS DEPENDING ON SIZE AND SHAPE). 30 GAUGE OR HIGHER SHEET METAL DUCT IS NOT ACCEPTABLE.

   c. ROUND MAIN DUCTS (601-2,000 FPM)

      c.1. ALL ROUND ELBOWS SHALL BE FULL RADIUS TYPE (THE CENTER LINE RADIUS OF DUCT SHALL BE 1.5 TIMES THE DIAMETER OF THE DUCT). 90° ELBOWS SHALL BE 5 GORE MINIMUM. 60° ELBOWS SHALL BE 4 GORE MINIMUM. 45° ELBOWS SHALL BE 3 GORE MINIMUM. 30° AND SMALLER ANGLE ELBOWS MAY BE 2 GORE. SMOOTH DIE STAMPED/PRESSED ELBOWS ARE ACCEPTABLE IN CONCEALED AREAS AND/OR WHEN THE DUCT IS EXTERNALLY INSULATED. PLEATED AND ADJUSTABLE ELBOWS ARE NOT ACCEPTABLE.

   d. ROUND BRANCH DUCTS (0-600 FPM)

      d.1. ROUND ELBOWS MAY BE SHORT RADIUS TYPE (THE CENTER LINE RADIUS OF DUCT SHALL BE 1 TIME THE DIAMETER OF THE DUCT). 90° ELBOWS SHALL BE 4 GORE MINIMUM. 60° ELBOWS SHALL BE 3 GORE MINIMUM. 45° AND SMALLER ANGLE ELBOWS MAY BE 2 GORE. SMOOTH DIE STAMPED/PRESSED ELBOWS ARE ACCEPTABLE IN CONCEALED AREAS AND/OR WHEN THE DUCT IS EXTERNALLY INSULATED. PLEATED AND ADJUSTABLE ELBOWS ARE NOT ACCEPTABLE.

   e. CONCEALED AND/OR EXTERNALLY INSULATED ROUND SHEET METAL DUCT MAY BE SPIRAL OR LONGITUDINAL SEAM. BUTT WELD, LAP WELD, OR GROOVED SEAM PIPE LOCK/FLAT LOCK IS ACCEPTABLE FOR LONGITUDINAL SEAMS. SNAPLOCK SEAMS SHALL ONLY BE USED FOR POSITIVE PRESSURE DUCT. EXPOSED ROUND SHEET METAL DUCT SHALL BE SPIRAL SEAM. EXPOSED ROUND SPIRAL SHEET METAL DUCT BRANCHES SHALL BE CONICAL TEES OR WYE FITTINGS AS DESIGNED. TAKEOFFS ARE NOT ACCEPTABLE.

   f. GRAVITY BACKDRAFT DAMPERS SHALL START TO OPEN AT NO MORE THAN 0.01" WG.

C. REFRIGERANT PIPING

3. ALL REFRIGERANT PIPING 1-3/8" AND SMALLER SHALL BE TYPE L-ACR OR TYPE K-ACR HARD DRAWN OR SOFT (AS INDICATED) COPPER UL RATED FOR 700 PSI AT 250°F AND CONFORMING TO ASTM STANDARD B280.

4. ALL REFRIGERANT PIPING LARGER THAN 1-3/8" AND 2-5/8" OR LESS SHALL BE TYPE K-ACR HARD DRAWN OR SOFT (AS INDICATED) COPPER UL RATED TO 700 PSI AT 250°F AND CONFORMING TO ASTM STANDARD B280.

5. ALL REFRIGERANT PIPE FITTINGS SHALL BE WROT COPPER UL RATED TO 700 PSI AT 250°F AND SHALL MEET ANSI/ASME STANDARD B16.22 AND NSF 61G.

6. ALL STRAIGHT RUNS OF REFRIGERANT PIPING SHALL BE SLOPED 1/8" PER FOOT MIN IN THE DIRECTION OF FLOW.

7. IF SOFT COPPER TUBING IS USED, IT SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE WITHOUT EXCESSIVE BENDS, KINKS, OR OTHER OBSTRUCTIONS.

D. THERMOSTATS SHALL BE 7 DAY PROGRAMMABLE TYPE WITH SETBACK, AUTOMATIC HEAT/COOL CHANGEOVER, MANUAL OVERIDE, DIGITAL DISPLAY. AND LOCKOUT CAPABILITIES.

E. A CERTIFIED TEST AND BALANCE SHALL BE PERFORMED BY A CERTIFIED, 3RD PARTY TEST AND BALANCE COMPANY. INDIVIDUAL GRILLES SHALL BE BALANCED TO WITHIN 10% OF THE DESIGN AIR FLOWS AND UNITS SHALL BE BALANCED TO WITHIN 5% OF THE DESIGN AIR FLOWS. THE RESTROOMS SHALL BE BALANCED NEGATIVE WITH THE EXHAUST FANS RUNNING. THE TEST AND BALANCE REPORT SHALL BE PROVIDED TO THE OWNER AND THIS ENGINEER FOR REVIEW AND COMMENT.

F. ALL LINE VOLTAGE (120V, 240V, 460V, ETC.) CONTROLS (SWITCHES, TIME CLOCKS, ETC.), ACCESSORIES, AND INTERCONNECTING WIRING SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR EXCEPT THAT ALL DAMPER ACTUATORS SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR. ALL LOW VOLTAGE (24V, ETC.) CONTROLS (THERMOSTATS, ETC.), ACCESSORIES, AND INTERCONNECTING WIRING SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR EXCEPT THAT ALL ASSOCIATED SMOKE AND FIRE ALARM WIRING SHALL BE PROVIDED AND INSTALLED BY THE FIRE ALARM CONTRACTOR. COORDINATE ALL WORK WITH THE ELECTRICAL AND FIRE ALARM CONTRACTORS.

G. EXTERIOR WALL LOUVERS

1. EXTERIOR WALL LOUVERS SHALL BE GREENHECK MODEL EVH-501 OR APPROVED EQUAL. PROVIDE WITH CONTINUOUS MOUNTING ANGLES. PROVIDE WITH INTEGRAL FLANGE FOR ALL STUCCO, EIFS, MASONRY, AND OTHER FLAT EXTERIOR SURFACE CONSTRUCTION. PROVIDE WITH EXTENDED SILL, END DAMS, AND DRIP CAP FOR ALL CORRUGATED METAL EXTERIOR WALL PANEL CONSTRUCTION. PROVIDE INSECT SCREENS FOR ALL FOOD SERVICE INSTALLATIONS. PROVIDE BIRD SCREENS FOR ALL OTHER INSTALLATIONS. FASTEN AND SEAL AS PER THE MANUFACTURER'S INSTRUCTIONS. APPROVED EQUAL SHALL HAVE 17% MINIMUM FREE AREA FOR A 12"x12" LOUVER, SHALL MEET THE REQUIREMENTS OF AMCA STANDARD 540, AND SHALL COMPLY WITH AMCA STANDARD 550. PHYSICAL FINISH SAMPLES SHALL BE SUBMITTED TO THE ARCHITECT FOR SELECTION.

2. ALL BIRD SCREENS SHALL BE WIRE CONSTRUCTION WITH NO LESS THAN 75% FREE AREA. EXPANDED METAL BIRD SCREENS ARE NOT ACCEPTABLE.

J. REFRIGERANT SYSTEM TESTS

1. PRESSURE TEST

   a. INTERCONNECTING PIPING

      a.1. EVACUATE ALL REFRIGERANT FROM THE SYSTEM.

      a.2. ISOLATE THE COMPONENT INTERCONNECTING PIPING AND CHARGE WITH DRY, OXYGEN FREE NITROGEN (OFN) TO 1.3 TIMES THE MAXIMUM ALLOWABLE PRESSURE OF THE SYSTEM COMPONENTS. MAINTAIN PRESSURE FOR 12 HOURS. IF LOSS OF PRESSURE OCCURS, LOCATE AND REPAIR LEAKS AND REPEAT TEST PROCEDURE.

   b. ENTIRE SYSTEM

      b.1. EVACUATE ALL REFRIGERANT FROM THE SYSTEM.

      b.2. CHARGE SYSTEM WITH DRY OFN TO THE MAXIMUM ALLOWABLE PRESSURE OF THE SYSTEM COMPONENTS. MAINTAIN PRESSURE FOR 12 HOURS. IF LOSS OF PRESSURE OCCURS, LOCATE AND REPAIR LEAKS AND REPEAT TEST PROCEDURE.

2. VACUUM TEST

   a. FOLLOWING SUCCESSFUL PRESSURE TESTING, EVACUATE THE SYSTEM TO 1500 MICRON. BREAK THE VACUUM WITH DRY OFN TO 1 BAR. REPEAT ONCE.

   b. CONTINUOUSLY EVACUATE THE SYSTEM TO BETWEEN 300 MICRON AND 500 MICRON FOR A MINIMUM OF 1 HOUR. INSPECT VACUUM PUMP FOR SIGNS OF MOISTURE DISCHARGE. CONTINUE EVACUATION AND INSPECT AT 1 HOUR INTERVALS UNTIL MOISTURE IS NOT PRESENT.

   c. MAINTAIN VACUUM FOR FOR 12 HOURS. IF LOSS OF VACUUM OCCURS, REPEAT TEST PROCEDURE.

3. FOLLOWING SUCCESSFUL PRESSURE AND VACUUM TESTING, CHARGE SYSTEM WITH NEW REFRIGERANT. RECOVERED, RECYCLED, OR RECLAIMED REFRIGERANT SHALL BE TREATED TO REMOVE MOISTURE, OIL, ACID, AND PARTICULATE MATTER PRIOR TO USE.

4. DOCUMENT TESTING AND PROVIDE TO OWNER. INSPECTION BY LOCAL AUTHORITY MAY BE REQUIRED.

K. CONDENSATE PIPING

1. ALL CONDENSATE PIPING SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

2. MATERIAL

   a. INTERIOR CONDENSATE PIPING SHALL BE APPROVED, SCHEDULE 40 PVC WITH PVC FITTINGS AND SOLVENT CEMENT JOINTS UNLESS OTHERWISE NOTED.

   b. EXTERIOR CONDENSATE PIPING SHALL BE APPROVED SCHEDULE 80 PVC WITH PVC FITTINGS AND SOLVENT CEMENT JOINTS.

   c. CONDENSATE WITHIN AN AIR PLEMUM SHALL BE TYPE M COPPER.

3. SIZING-CONNECTED LOAD

   a. 2 TONS OR LESS = 3/4"

   b. 2 TONS TO 5 TONS = 1"

   c. 5 TONS TO 30 TONS = 1 1/4"

4. MINIMUM SLOPE

   a. 2-1/2" OR LESS=1/4" PER FOOT

L. ALL PIPING SHALL BE LABELED IN ACCORDANCE WITH ASTM STANDARD A13.1. LABELS SHALL INCLUDE PIPING SERVICE (REFRIGERANT SUCTION, REFRIGERANT LIQUID, CONDENSATE, ETC.), SIZE, AND DIRECTION OF FLOW.

M. COORDINATE ALL REQUIRED WALL, FLOOR, CEILING, AND ROOF PENETRATION LOCATIONS AND SIZES WITH THE GC PRIOR TO CONSTRUCTION. GC SHALL PROVIDE ALL REQUIRED FRAMED OPENINGS, HEADERS, MASONRY OPENINGS, LINTELS, ETC. AS NECESSARY.

N. COORDINATE ALL DUCT LOCATIONS, SIZES, AND ROUTING WITH GC PRIOR TO CONSTRUCTION. GC SHALL PROVIDE A CLEAR PATH THROUGH FRAMING AND MASONRY COMPONENTS TO ACCOMMODATE DUCT ROUTING.

O. ALL OPERABLE WALL MOUNTED DEVICES (SWITCHES, THERMOSTATS, ETC.) SHALL BE INSTALLED SO THAT THE OPERABLE COMPONENT IS A MAXIMUM OF 48" AFF AND IN ACCORDANCE WITH ADA AND ABA STANDARDS.

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MECHANICAL ABBREVIATIONS

A	
A	AMPS
AC	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ALUMINUM
B	
BDD	BACKDRAFT DAMPER
BOD	BOTTOM OF DUCT
C	
CEF	CEILING EXHAUST FAN
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHW	CHILLED WATER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CU	CONDENSING UNIT
CW	CONDENSER WATER
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
D	
DC	DIRECT CURRENT
E	
E	EXISTING
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
F	
FC	FAN COIL
FD	FIRE DAMPER
FSD	COMBINATION FIRE/SMOKE DAMPER
FT	FOOT/FEET
G	
GA	GAUGE
GC	GENERAL CONTRACTOR
GFM	GLASS FABRIC AND MASTIC
H	
HP	HORSEPOWER OR HEAT PUMP
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
K	
KW	KILOWATT
L	
LBS	POUNDS
M	
MAX	MAXIMUM
MBH	ONE THOUSAND BRITISH THERMAL UNITS PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MD	MOTORIZED DAMPER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
N	
NC/PO	NORMALLY CLOSED/POWERED OPEN
NIC	NOT IN CONTRACT
NIS	NEOPRENE IN SHEAR
NO/PC	NORMALLY OPEN/POWERED CLOSED
NTS	NOT TO SCALE
O	
OA	OUTDOOR AIR
OC	ON CENTER
P	
PC	PLUMBING CONTRACTOR
PH	PHASE
R	
RA	RETURN AIR
RGS	RIGID SEALED
RIS	RUBBER IN SHEAR
RPM	REVOLUTIONS PER MINUTE
S	
SA	SUPPLY AIR
SQFT	SQUARE FEET
T	
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
U	
UC	UNDERCUT DOOR
UL	UNDERWRITERS LABORATORIES
V	
V	VOLTAGE
VD	VOLUME DAMPER
VIF	VERIFY IN FIELD
W	
W	WATT
WC	WATER COLUMN

MECHANICAL SYMBOLS

	SQUARE/RECTANGULAR SUPPLY DOWN
	SQUARE/RECTANGULAR SUPPLY UP
	ROUND SUPPLY DOWN
	ROUND SUPPLY UP
	SQUARE/RECTANGULAR RETURN DOWN
	SQUARE/RECTANGULAR RETURN UP
	ROUND RETURN DOWN
	ROUND RETURN UP
	SQUARE/RECTANGULAR EXHAUST DOWN
	SQUARE/RECTANGULAR EXHAUST UP
	ROUND EXHAUST DOWN
	ROUND EXHAUST UP
	SQUARE/RECTANGULAR ELBOW
	SQUARE/RECTANGULAR ELBOW WITH TURNING VANES
	ROUND MAIN WITH CONICAL TAKEOFF
	ROUND MAIN WITH CONICAL TEE
	SQUARE/RECTANGULAR MAIN WITH CONICAL TEE
	ROUND MAIN WITH 45° LATERAL WYE
	SQUARE/RECTANGULAR MAIN WITH 45° LEAD IN TAKEOFF
	ROUND ELBOW
	EXISTING DUCT TO BE REMOVED
	EXISTING DUCT TO REMAIN
	NEW DUCT
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
	INTERNALLY INSULATED DUCT
	SQUARE/RECTANGULAR TO ROUND TRANSITION
	CONCENTRIC TRANSITION
	ECCENTRIC TRANSITION
	ROUND NECK CEILING AIR TERMINAL
	SQUARE/RECTANGULAR NECK CEILING AIR TERMINAL
	TRANSFER AIR PATH
C	TIMECLOCK
T	THERMOSTAT
S	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
SD	DUCT SMOKE DETECTOR
	CONNECT TO EXISTING
$	SWITCH
MD	MOTORIZED DAMPER
FD	FIRE DAMPER
FSD	COMBINATION FIRE/SMOKE DAMPER
SD	SMOKE DAMPER
BDD	BACKDRAFT DAMPER
	CAP AND SEAL
	FLEXIBLE CONNECTION

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16922
STATE OF MISSISSIPPI
10.31.2025

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

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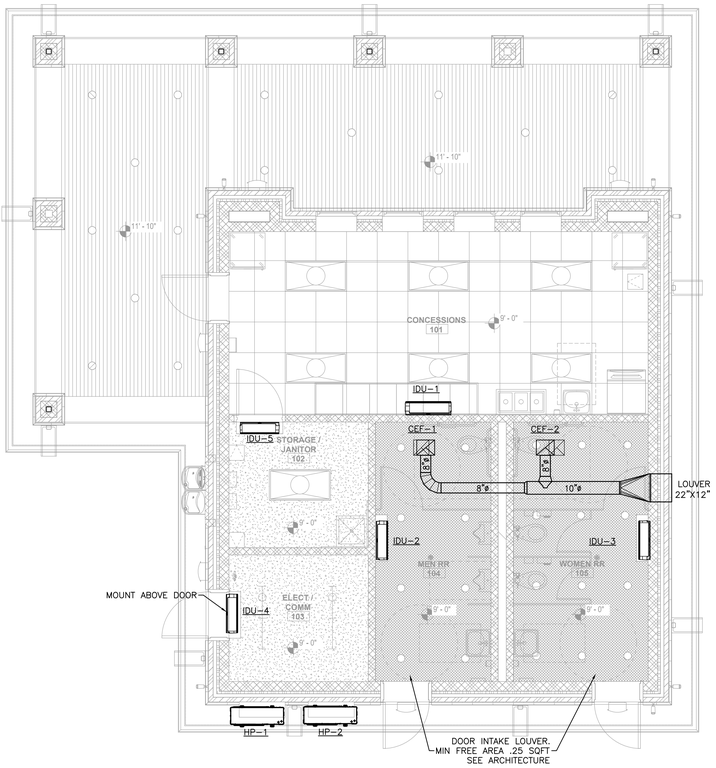
MECHANICAL ABBREVIATIONS AND SYMBOLS

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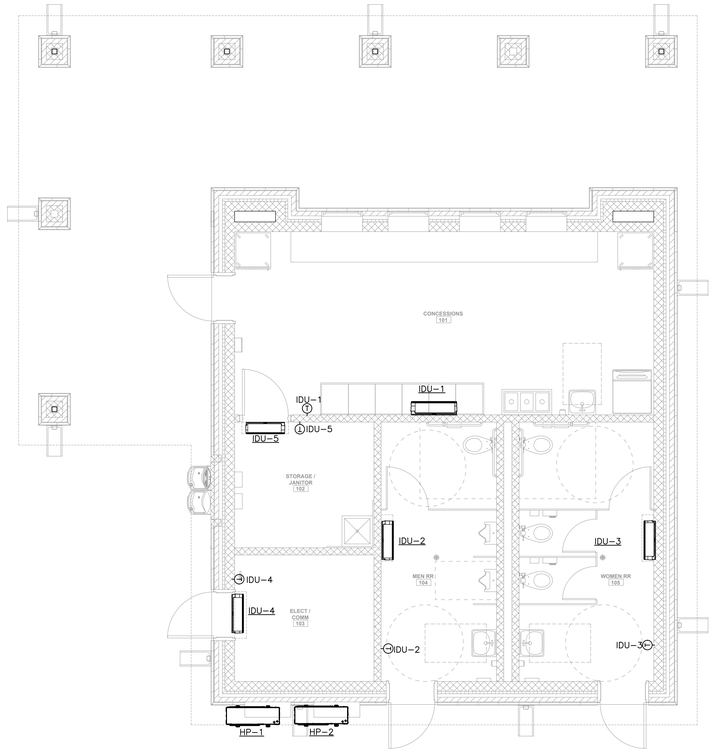
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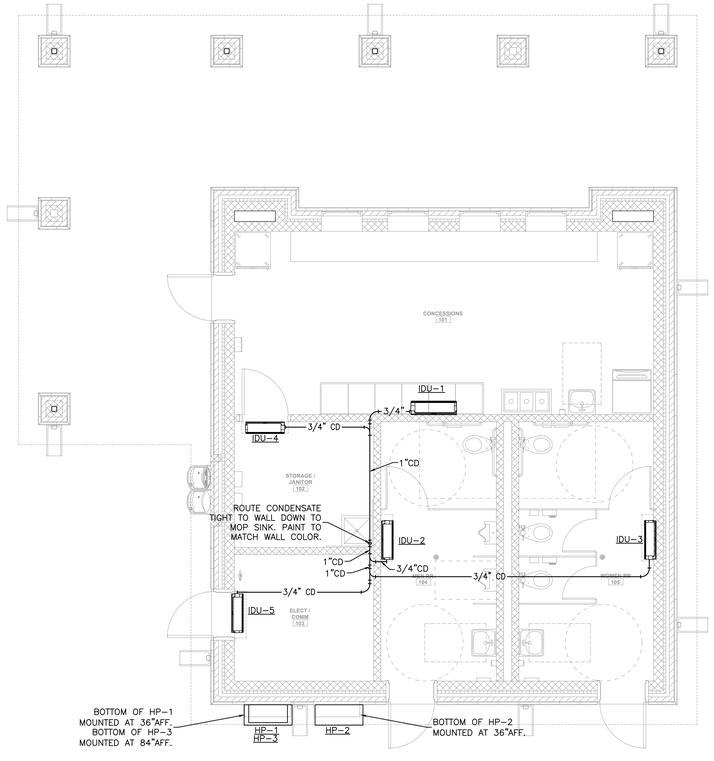
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1 MECHANICAL PLAN
SCALE: 1/4"=1'-0"



2 THERMOSTAT PLAN
SCALE: 1/4"=1'-0"



3 CONDENSATE PIPING PLAN
SCALE: 1/4"=1'-0"

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

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FAN COIL SCHEDULE

TAG	MAKE	MODEL	CFM	OA	ESP	NOMINAL COOLING (BTUH)	NOMINAL HEATING (BTUH)	ELEC HEAT (KW)	LIQUID LINE (IN)	SUCTION LINE (IN)	V/PH	FLA	MCA	MOCP	LBS	NOTES
IDU-1	LG	KNUAB181A	438	N/A	N/A	18000	21600	N/A	1/4	1/2	208/1	N/A	0.4	15	30	1,2,3,4,5
IDU-2	LG	KNUAB181A	438	N/A	N/A	18000	21600	N/A	1/4	1/2	208/1	N/A	0.4	15	30	1,2,3,4,5
IDU-3	LG	KNUAB181A	438	N/A	N/A	18000	21600	N/A	1/4	1/2	208/1	N/A	0.4	15	30	1,2,3,4,5
IDU-4	LG	KNUAB121A	388	N/A	N/A	14100	12400	N/A	1/4	3/8	208/1	N/A	0.4	15	25	1,2,3,4,5
IDU-5	LG	KNUAB091A	218	N/A	N/A	9000	10900	N/A	1/4	3/8	208/1	N/A	0.4	15	20	1,2,3,4,5
IDU-6	LG	KNUAB091A	218	N/A	N/A	9000	10900	N/A	1/4	3/8	208/1	N/A	0.4	15	20	1,2,3,4,5

1 WITH WIRED, WALL MOUNTED THERMOSTAT
2 WITH CONDENSATE PUMP
3 WITH 5 YEAR WARRANTY
4 WALL MOUNT
5 COORDINATE REFRIGERANT LINE SIZING AND ROUTING WITH MANUFACTURER

HEAT PUMP/CONDENSING UNIT SCHEDULE

TAG	MAKE	MODEL	SERVES	NOMINAL COOLING (BTUH)	NOMINAL HEATING (BTUH)	LIQUID LINE (IN)	SUCTION LINE (IN)	V/PH	COMPRESSOR RLA	COMPRESSOR LRA	FAN FLA	MCA	MOCP	LBS	NOTES
HP-1	LG	KUMXB361A	IDU-1, IDU-4	38400	41600	(4) 1/4	(4) 3/8	208/1	13.5	19.0	0.65	19.0	25	160	1,2,3,4,5,6
HP-2	LG	KUMXB361A	IDU-2, IDU-3	38400	41600	(4) 1/4	(4) 3/8	208/1	13.5	19.0	0.65	19.0	25	160	1,2,3,4,5,6
HP-3	LG	KUSAB121A	IDU-5	14100	12400	1/4	3/8	208/1	8.3	9.0	0.4	12	15	80	1,2,3,4,5,6

1 WITH 5 YEAR WARRANTY
2 WITH WALL MOUNT BRACKET
3 WITH LOW AMBIENT COOLING
4 COORDINATE REFRIGERANT LINE SIZING, ROUTING AND LENGTHS WITH MANUFACTURER
5 WITH HIGH AND LOW PRESSURE PROTECTION
6 WITH CRANKCASE HEATER

EXHAUST FAN SCHEDULE

TAG	MAKE	MODEL	CFM	TSP	RPM	WATTS	FLA	V/PH	LBS	NOTES
CEF-1	GREENHECK	SP-A390-VG	150	0.25	917	18	1.5	120/1	24	1,2
CEF-2	GREENHECK	SP-A390-VG	150	0.25	917	18	1.5	120/1	24	1,2

1 WITH ECM MOTOR
2 WIRE TO LIGHT SWITCH

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10.31.2025

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

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LIGHTING SYMBOLS

CEILING	WALL	DESCRIPTION
		LED, FLUORESCENT OR H.I.D. LIGHT FIXTURE. LETTER DENOTES FIXTURE TYPE. SEE LUMINARE SCHEDULE.
		LED OR FLUORESCENT STRIP LIGHT FIXTURE. LETTER DENOTES FIXTURE TYPE. SEE LUMINARE SCHEDULE
		LED OR FLUORESCENT LIGHT FIXTURE. LETTER DENOTES FIXTURE TYPE. SEE LUMINARE SCHEDULE.
		"EXIT" LIGHT FIXTURE. DIRECTIONAL ARROWS AS INDICATED. SHADED QUADRANT INDICATE FACE(S). SEE LUMINARE SCHEDULE.
		EMERGENCY BATTERY PACK FIXTURE. LETTER DENOTES FIXTURE TYPE. SEE LUMINARE SCHEDULE.
		H.I.D.FLOODLIGHT FIXTURE. LETTER DENOTES FIXTURE TYPE. SEE LUMINARE SCHEDULE.

POWER SYMBOLS

FLOOR	WALL	CEIL.	COUNTR	DESCRIPTION
				DUPLEX OUTLET; GFCI=GFCI PROTECTION, WP=WEATHER PROOF COVER, IG=ISOLATED GROUND.
				SPECIAL OUTLET
				480/277V PANELBOARD
				208/120V PANELBOARD
				DISCONNECT SWITCH; AS=FRAME SIZE, AT=FUSE SETTING (NF=NON FUSED), #P=NUMBER POLES, NR=NEMA ENCLOSURE RATING (NEMA 1 UNLESS OTHERWISE NOTED)
				COMBINATION STARTER/DISCONNECT SWITCH, MP=MAX PROTECTION RATING, SS=STARTER SIZE, #P=NUMBER POLES, NR=NEMA ENCLOSURE RATING.
				MAGNETIC MOTOR STARTER. SS=STARTER SIZE, NR=NEMA ENCLOSURE RATING (NEMA 1 UNLESS OTHERWISE NOTED
				MOTOR, SINGLE-PHASE. HP=DENOTES HORSEPOWER
				MOTOR, THREE-PHASE. HP=DENOTES HORSEPOWER
				JUNCTION BOX
				JUNCTION BOX, WALL MOUNTED
				TRANSFORMER

SYSTEM DEVICES

FLOOR	WALL	CEIL.	DESCRIPTION
			TELEPHONE OUTLET, FLUSH MOUNTED
			COMBINATION DATA/TELEPHONE OUTLET, FLUSH MOUNTED, CT – COUNTER TOP, POE – POWER OVER ETHERNET WIFI LOCATION
			HDMI OUTLET, FLUSH MOUNTED
	H	H	FIRE ALARM, COMBINATION AUDIO/VISUAL ANNUNCIATION UNIT. CANDELA AS INDICATED. WALL MOUNTED 7'-6" AFF UNLESS OTHERWISE NOTED, CEILING MOUNTED.
	S	S	STROBE, WALL MOUNTED 7'-6" AFF UNLESS OTHERWISE NOTED. CEILING MOUNTED CANDELA AS INDICATED.
P			FIRE ALARM PULL STATION WITH TAMPER PROOF COVER WALL MOUNTED 48" AFF.
H			HEAT DETECTOR CEILING MOUNTED.
2			SMOKE DETECTOR CEILING MOUNTED, ER – ELEVATOR RECALL
DSD			DUCT SMOKE DETECTOR, WITH SAMPLING TUBE MOUNTED IN HVAC DUCT.
FS			FLOW SWITCH
CM			CONTROL MODULE
TS			TAMPER SWITCH
FAP			FIRE ALARM CONTROL PANEL (FACP)
TX			TRANSCEIVER
ANN			FIRE ALARM REMOTE ANNUNCIATOR PANEL.
VFD			VARIABLE FREQUENCY DRIVE
TBB			TELEPHONE BACK BOARD PANEL

WIRING SYMBOLS

	DESCRIPTION
	WIRING (IN CONDUIT) CONCEALED IN CEILING OR WALL
	WIRING (IN CONDUIT) RUN EXPOSED
	WIRING UNDERGROUND (SITE WORK)
	TELECOMMUNICATION RACEWAY (SITE WORK)
L1,3	HOMERUN TO PANELBOARD WITH NOMENCLATURE (LETTERS), CIRCUIT NUMBERS (NUMBERS), NUMBER OF CIRCUITS (NUMBER OF ARROWS), EACH CIRCUIT TO HAVE GROUND.
E	ELECTRICAL MANHOLE
T	TELECOMMUNICATION MANHOLE
	GROUND CONNECTION
S	SINGLE-POLE TOGGLE SWITCH.
S_2	DOUBLE-POLE TOGGLE SWITCH.
S_3	THREE-WAY TOGGLE SWITCH.
S_D	SLIDE DIMMER FLUORESCENT.
S_M	SWITCH, MOTOR RATED
S_{MS}	SWITCH, MOTION SENSOR
PC X	PHOTO CELL, LETTER OR NUMBER DENOTES WHAT LIGHTING CONTROL PANEL TO ROUTE BACK TO
	CONDUIT TURNED UP
	CONDUIT STUBBED OUT
	GROUNDING CONNECTION BAR
	10' 3/4" COPPER CLAD GROUND ROD.

REFERENCE SYMBOLS

	DESCRIPTION
100	FEEDER REFERENCE.
A E1 E2 / 1 E1 E2	DETAIL/SECTION REFERENCE: "1" DENOTES DETAIL "A" DENOTES SECTION "E1" DENOTES DRAWING NUMBER WHERE DETAIL/SECTION IS TAKEN "E2" DENOTES DRAWING NUMBER WHERE DETAIL/SECTION IS DRAWN

SPECIAL SYSTEMS

	DESCRIPTION
SP	INTERCOM SPEAKER, RECESSED CEILING MOUNTED
CS	INTERCOM CALL STATION, WALL MOUNTED AT 48" AFF.
SP	INTERCOM SPEAKER, WALL MOUNTED AT 96" AFF., WP = WEATHER PROOF
TC	INTERCOM – TIME CLOCK, WALL MOUNTED AT 96" AFF.
DC	ACCESS CONTROL – DOOR CONTACT
CR	ACCESS CONTROL – CARD READER
PB	ACCESS CONTROL – REQUEST TO EXIT
J C	SECURITY CAMERA PROVISIONS LOCATION ONLY. SECURITY CAMERAS CALLED OUT BY SPECIFIC NOTE ON SPECIAL SYSTEMS PLANS

ONE-LINE SYMBOLS

	DESCRIPTION
M	METER ENCLOSURE
M	METER
	CIRCUIT BREAKER
	SWITCH, SINGLE POLE-SINGLE THROW
	FUSE
	FUSE
	FUSED SWITCH
	FUSED SWITCH
	DRY TYPE TRANSFORMER
PANEL	PANELBOARD
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
LC	LIGHTING CONTACTOR
GFM	GROUND FAULT MONITORING
K	KIRK-KEY MECHANICAL INTER-LOCK
	GROUND SYSTEM TEST WELL WITH GROUND ROD CONNECTION
	EXOTHERMIC WELD GROUND ROD CONNECTION
	EXOTHERMIC WELD CONNECTION
	4-WAY SF_6 SWITCH
	6-WAY SF_6 SWITCH
	TYPICAL DUAL CIRCUIT AIR BREAK TRANSFORMER DESIGN
400A 440V	TRANSFORMER STATION NUMBER BUILDING NUMBER OR LOCATION
	LOAD BREAK SF_6 SWITCH
1	MOTOR STARTER (NUMBER INDICATES NEMA SIZE)
27	UNDERVOLTAGE RELAY
V	VOLT METER
A	AMMETER
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION

GENERAL NOTES

1. PROVIDE A PERMANENT, DURABLE SIGN ON THE MAIN ELECTRICAL ROOM DOOR TO THE BUILDING STATING THAT THE MAIN SERVICE DISCONNECT(S) ARE LOCATED INSIDE IN LETTERS ≥ 1" HIGH, PER NEC 230.2(E).
2. EQUIPMENT SHALL BE MOUNTED ON MATERIALS SUITABLE FOR THE ENVIRONMENT AND RATED PER NEC 110.28 FOR THE ENVIRONMENT OF INSTALLATION.
3. MAINTAIN WORKING CLEARANCES FOR ALL ELECTRICAL EQUIPMENT PER NEC 110.26. PROVIDE DEDICATED ELECTRICAL SPACE ABOVE AND AROUND SWITCHBOARDS, PANELBOARDS, AND SIMILAR EQUIPMENT PER NEC 110.32; THE WIDTH AND DEPTH OF THE EQUIPMENT FOOTPRINT, EXTENDING FROM THE FLOOR TO THE STRUCTURAL CEILING OR 6 ft ABOVE THE EQUIPMENT (WHICHEVER IS LOWER), SHALL BE KEPT CLEAR OF PIPING, DUCTWORK, OR EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION. WHERE SPRINKLER PIPING IS PRESENT, PROVIDE LISTED DRIP SHIELDS. COORDINATE ALL ELECTRICAL EQUIPMENT LOCATIONS WITH OTHER TRADES PRIOR TO ROUGH-IN.
4. ALL ELECTRICAL EQUIPMENT AND THE RESULTANT INSTALLATION OF SUCH EQUIPMENT, DEVICES, ETC., SHALL BE IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRIC CODE, NFPA 70, ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND THE STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE NFPA 70E.
5. DRAWINGS AND SPECIFICATIONS FORM A COMPLETE SET OF DOCUMENTS FOR THE WORK IN THIS PROJECT. NEITHER IS COMPLETE WITHOUT THE OTHER. ANY ITEM MENTIONED IN ONE SHALL BE BINDING AS MENTIONED IN BOTH.
6. CONTRACTOR SHALL TAKE RESPONSIBILITY FOR FIELD VERIFICATION OF ALL DIMENSIONS AND LOCATIONS OF EXISTING, RELOCATED AND NEW EQUIPMENT AND SHALL BE RESPONSIBLE FOR COORDINATION WITH THE WORK OF OTHER TRADES NECESSARY TO THE PROJECT.
7. THESE DRAWINGS ARE INTENDED TO OUTLINE THE SCOPE OF WORK REQUIRED TO PROVIDE A COMPLETE AND OPERABLE PROJECT CONCLUSION. ALL MISCELLANEOUS COMPONENTS, PARTS, FASTENERS, SPLICES AND OTHER INCIDENTAL ITEMS NECESSARY TO PROVIDE A COMPLETED PROJECT SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY NOTED.
8. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS ARISING FROM DISCOVERED CONDITIONS AT ANY PHASE OF THE PROJECT.
9. CONTRACTOR SHALL NOTIFY MISSISSIPPI ONE CALL TO DETERMINE THE LOCATION AND DEPTH OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
10. AT ANY LOCATION WHERE EXCAVATION OR ASSOCIATED WORK CAUSES DAMAGE TO EXISTING UNDERGROUND UTILITIES, CONTRACTOR SHALL RESTORE THE DAMAGED SYSTEM TO LIKE-NEW STATE.
11. ALL BRANCH CIRCUITS SHALL BE INSTALLED WITH AN INSULATED NEUTRAL CONDUCTOR AND AN EQUIPMENT GROUNDING CONDUCTOR, SIZED PER THE NEC.
12. ALL ABOVE-GROUND, EXPOSED EXTERIOR CONDUIT SHALL BE RIGID GALVANIZED STEEL (RGS). INTERIOR EXPOSED CONDUIT SHALL BE RGS OR IMC UNLESS OTHERWISE APPROVED.
13. LOCATIONS OF OTHER EQUIPMENT SPECIFIED BY OTHER TRADES OR PROVIDED BY OWNER ARE APPROXIMATE. COORDINATE EXACT LOCATION IN FIELD PRIOR TO ROUGHING IN AND ROUTING CONDUIT.
14. SEE ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR EXACT LOCATIONS FOR LIGHT FIXTURES IN LAY-IN OR DRYWALL CEILINGS, AND ON INTERIOR OR EXTERIOR WALLS.
15. CONDUITS ARE NOT NECESSARILY SHOWN ON PLAN DRAWINGS FOR SAKE OF CLARITY. PROVIDE CONDUITS BETWEEN DEVICES AND TO PANELS PER REQUIREMENTS LISTED IN DIVISION 26 SPECIFICATIONS. INDICATE EXACT ROUTING OF CONDUIT ON PLAN DRAWINGS AS PART OF AS BUILD DOCUMENTATION TO BE SUBMITTED AFTER FINAL COMPLETION.
16. FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
17. ALL EXIT SIGNS, NIGHT LIGHTS, AND EMERGENCY EGRESS LUMINAIRES SHALL BE PROVIDED WITH INTEGRAL BATTERY PACKS (UNIT EQUIPMENT) SIZED FOR 90 MINUTES MINIMUM OPERATION IN ACCORDANCE WITH NFPA 101 AND NEC 700.12(F). NORMAL BRANCH CIRCUIT CONNECTION SHALL BE UNSWITCHED (AHEAD OF LOCAL SWITCHING), SO THAT BATTERY CHARGING IS MAINTAINED AT ALL TIMES. CONTRACTOR SHALL PERFORM FIELD ACCEPTANCE TESTING BY DISCONNECTING NORMAL POWER TO VERIFY THAT EACH LUMINAIRE AND EXIT SIGN OPERATES ON BATTERY FOR THE FULL 90-MINUTE DURATION, PER NFPA 101. RESULTS SHALL BE DOCUMENTED AND SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.
18. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
19. ELECTRICAL CONTRACTOR SHALL REVIEW MECHANICAL DRAWINGS AND SPECIFICATION TO OBTAIN LOCATIONS, WIRING REQUIREMENTS, CONTROL WIRING SCHEMES, INTERLOCK WIRING AND THERMOSTAT LOCATIONS.
20. CONTRACTOR SHALL COORDINATE THE MOUNTING HEIGHTS AND EXACT LOCATIONS OF ALL LOW-VOLTAGE DEVICES, INCLUDING SECURITY CAMERAS, WITH ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS PRIOR TO ROUGH-IN. WHERE CONFLICTS ARISE WITH FINISHES, CASEWORK, SIGNAGE, OR MECHANICAL SYSTEMS, FINAL LOCATIONS SHALL BE APPROVED BY THE ARCHITECT/ENGINEER.
21. ALL DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO QUANTIFY THE MATERIALS SPECIFIED AND INDICATED THEIR INTENDED RELATIONSHIP TO EACH OTHER. THE DRAWINGS ARE NOT TO BE SCALED. THE VARIOUS SCALES USED ON THE DRAWINGS MAY NOT ALLOW FOR ALL FITTINGS, OFFSETS, AND ACCESSORIES THAT MAY BE REQUIRED TO COMPLETE THE WORK. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE CONDITIONS THAT WOULD AFFECT THE WORK TO BE PERFORMED AND SHALL ARRANGE SUCH WORK AS NECESSARY TO COMPLY WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS.
22. CONTRACTOR SHALL PROVIDE LISTED SURGE PROTECTION DEVICES (SPD), ON ALL UNDERGROUND-ROUTED CABLE (POWER, FIBER, CAT6, AUDIO, ETC.), INSTALLED AT BOTH BUILDING ENTRY AND ORIGINATING EQUIPMENT. SPD'S SHALL BE UL 1449 4TH EDITION LISTED, TYPE 1 OR TYPE 2 AS APPLICABLE, WITH A SHORT CIRCUIT CURRENT RATING (SCCR) NOT LESS THAN THE AVAILABLE FAULT CURRENT. INSTALLATION SHALL COMPLY WITH NEC ARTICL 285 AND INCLUDE PROPER GROUNDING AND BONDING PER NEC 250.

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: MAB
CHECKED BY: KDB

ELECTRICAL GENERAL NOTES AND LEGEND

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E001

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ABBREVIATIONS

A

A	AMPERE(S)
AC	ALTERNATING CURRENT
ACS	ACCESS CONTROL SYSTEM
A/C	AIR CONDITIONING
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERES INTERRUPTING CAPACITY
ALUM	ALUMINUM
AT	AMPERE TRIP
AWG	AMERICAN WIRE GAGE
AHU	AIR HANDLING UNIT

C

C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CL	CLASS
COND	CONDUCTOR(S)
CT	COUNTER TOP
CU	COPPER
COMM	COMMUNICATION
CWP	CHILLED WATER PUMP

D

DC	DIRECT CURRENT
DET.	DETECTOR

E

E.C.	ELECTRICAL CONTRACTOR
EEB	ELECTRICAL EQUIPMENT BUILDING
EF	EXHAUST FAN
EL.	ELEVATION
EM	EMERGENCY
ESD	EMERGENCY SHUTDOWN
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING

F

FC	FOOT CANDLE
FF	FINISHED FLOOR
FLA	FULL LOAD AMPS
FL	FLUORESCENT
FREQ.	FREQUENCY
FT.	FOOT; FEET

G

G	GROUND
GALV	GALVANIZED
GFI	GROUND FAULT INTERRUPTER
GND	GROUND

H

HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HZ	HERTZ

J

JB	JUNCTION BOX

K

KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPERES
KW	KILOWATT

L

LBS.	POUNDS
LEV	LEVEL
LTG.	LIGHTING
LV	LOW VOLTAGE

M

MCB	MAIN CIRCUIT BREAKER
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MH	MOUNTING HEIGHT

N

N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NF	NONFUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	UN SWITCHED NIGHT LIGHT
NTS	NOT TO SCALE

O

OC	ON CENTER
OL	OVERLOAD CONTACT

P

ø	PHASE
PNL	PANEL
PR	PAIR
PE	PHOTO ELECTRIC
PRI	PRIMARY
PIR	PASSIVE INFRARED
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER

R

REC	RECEPTACLE
REQ'D.	REQUIRED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RT	RAINTIGHT

S

SEC	SECONDARY
SMK	SMOKE
SPC	SINGLE POINT CONNECTION
SR	SUNRISE
SS	SUNSET
STD	STANDARD
SUPVR	SUPERVISORY
SWBD	SWITCHBOARD

T

TYP	TYPICAL

U

UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORIES

V

V	VOLTS
VAC	VOLTAGE, ALTERNATING CURRENT
VDC	VOLTAGE, DIRECT CURRENT

W

W	WATTS, WIRE, WIDTH
WP	WEATHERPROOF

X

XFMR	TRANSFORMER

FEEDER SCHEDULE (3)

TYPE THHN/THWN INSUL. COPPER CONDUCTOR AMPACITY BASED ON (75° TEMP. RATING) IN RIGID METAL CONDUIT
DRY INTERIOR LOCATIONS: EMT WITH CAST COMPRESSION FITTINGS
WET EXTERIOR LOCATIONS: RGS WITH CAST FITTINGS
UNDERGROUND INSTALLATIONS: SCHEDULE 80 PVC
BASED ON 40% FILL CAPACITIES, MINIMUM CONDUIT SIZE – 3/4"

FEEDER DESIGNATION	3PH+G PHASE + GND. CONDUCTORS AND CONDUIT SIZE	FEEDER DESIGNATION	3PH+N+G PHASE + NEUTRAL + GND. CONDUCTORS AND CONDUIT SIZE	FEEDER DESIGNATION	2 WIRE + GND. OR 1 WIRE + NEUTRAL + GND. CONDUCTORS AND CONDUIT SIZE
20	3#12+#12 GND., 3/4"C	20N	4#12+#12 GND., 3/4"C	20S	2#12+#12 GND., 3/4"C
30	3#10+#10 GND., 3/4"C	30N	4#10+#10 GND., 3/4"C	30S	2#10+#10 GND., 3/4"C
50	3#8+#10 GND., 1"C	50N	4#8+#10 GND., 1"C	50S	2#8+#10 GND., 1"C
65	3#6+#8 GND., 1"C	65N	4#6+#8 GND., 1 1/4"C	65S	2#6+#8 GND., 1"C
85	3#4+#8 GND., 1 1/4"C	85N	4#4+#8 GND., 1 1/4"C	85S	2#4+#8 GND., 1 1/4"C
100	3#3+#8 GND., 1 1/4"C	100N	4#3+#8 GND., 1 1/2"C	100S	2#3+#8 GND., 1 1/4"C
115	3#2+#6 GND., 1 1/2"C	115N	4#2+#6 GND., 1 1/2"C	115S	2#2+#6 GND., 1 1/2"C
130	3#1+#6 GND., 1 1/2"C	130N	4#1+#6 GND., 2"C	130S	2#1+#6 GND., 1 1/2"C
150	3#1/0+#6 GND., 2"C	150N	4#1/0+#6 GND., 2"C	150S	2#1/0+#6 GND., 2"C
175	3#2/0+#6 GND., 2"C	175N	4#2/0+#6 GND., 2 1/2"C	175S	2#2/0+#6 GND., 2"C
200	3#3/0+#6 GND., 2"C	200N	4#3/0+#6 GND., 2 1/2"C	200S	2#3/0+#6 GND., 2"C
230	3#4/0+#4 GND., 2 1/2"C	230N	4#4/0+#4 GND., 3"C	230S	2#4/0+#4 GND., 2 1/2"C
255	3#250+#4 GND., 2 1/2"C	255N	4#250+#4 GND., 3"C	255S	2#250+#4 GND., 2 1/2"C
285	3#300+#4 GND., 3"C	285N	4#300+#4 GND., 3"C	285S	2#300+#4 GND., 3"C
310	3#350+#3 GND., 3"C	310N	4#350+#3 GND., 4"C	310S	2#350+#3 GND., 3"C
335	3#400+#3 GND., 3"C	335N	4#400+#3 GND., 4"C	335S	2#400+#3 GND., 4"C
380	3#500+#3 GND., 4"C	380N	4#500+#3 GND., 4"C	380S	2#500+#3 GND., 4"C
400	2 SETS(3#3/0+#3 GND., 2"C)	400N	2 SETS(4#3/0+#3 GND., 2 1/2"C)		
420	3#600+#2 GND., 4"C	420N	4#600+#2 GND., 4"C		
460	2 SETS(3#4/0+#2 GND., 2"C)	460N	2 SETS(4#4/0+#2 GND., 2 1/2"C)		
510	2 SETS(3#250+#1 GND., 2 1/2"C)	510N	2 SETS(4#250+#1 GND., 3"C)		
570	2 SETS(3#300+#4 GND., 2 1/2"C)	570N	2 SETS(4#300+#4 GND., 3"C)		
620	2 SETS(3#350+#1/0 GND., 3"C)	620N	2 SETS(4#350+#1/0 GND., 3"C)		
760	2 SETS(3#500+#1/0 GND., 3"C)	760N	2 SETS(4#500+#1/0 GND., 4"C)		
840	2 SETS(3#600+#2/0 GND., 4"C)	840N	2 SETS(4#600+#2/0 GND., 4"C)		
855	3 SETS(3#300+#2/0 GND., 2 1/2"C)	855N	3 SETS(4#300+#2/0 GND., 3"C)		
1005	3 SETS(3#400+#3/0 GND., 3"C)	1005N	3 SETS(4#400+#3/0 GND., 3"C)		
1240	4 SETS(3#350+#4/0 GND., 3"C)	1240N	4 SETS(4#350+#4/0 GND., 4"C)		
1650	5 SETS(3#400+#250 GND., 3"C)	1650N	5 SETS(4#400+#250 GND., 4"C)		
2010	6 SETS(3#400+#350 GND., 3"C)	2010N	6 SETS(4#400+#350 GND., 4"C)		
2660	7 SETS(3#500+#450 GND., 4"C)	2660N	7 SETS(4#500+#400 GND., 4"C)		
3040	8 SETS(3#500+#500 GND., 4"C)	3040N	8 SETS(4#500+#500 GND., 4"C)		
4180	11 SETS(3#500+#700 GND., 4"C)	4180N	11 SETS(4#500+#700 GND., 4"C)		

DRAWING E002 SPECIFIC NOTES

1. ALTERNATE LIGHTING FIXTURE SUBMITTAL MUST BE SUBMITTED TO ENGINEER 10 DAYS PRIOR TO BID FOR REVIEW. SUBMITTAL SHALL BE COMPLETE INCLUDING ALL FIXTURES UTILIZED IN THE PROJECT, AS WELL AS PHOTOMETRIC LAYOUTS VERIFYING IES FOOTCANDLE LEVELS. ANY EXCEPTIONS TO THE SPECIFIED FIXTURES SHALL BE CLEARLY NOTED OR ENTIRE PACKAGE WILL BE REJECTED. **CONTRACTOR MUST BE APPROVED BY ADDENDUM IN ORDER TO QUOTE THE PROJECT.**
2. CONTRACTOR SHALL COORDINATE ALL FIXTURE MOUNTING HEIGHTS WITH THE ARCHITECTURAL PLANS PRIOR TO ROUGHING IN. COORDINATE FIXTURE MOUNTING TYPE WITH CEILING TYPES AND MOUNTING HEIGHTS.
3. ALL OVERCURRENT PROTECTIVE DEVICES AND PANELBOARDS SHALL HAVE AN INTERRUPTING RATING (AIC) NOT LESS THAN THE AVAILABLE FAULT CURRENT AT THEIR LINE TERMINALS, AS ESTABLISHED BY THE SHORT CIRCUIT/COORDINATION STUDY.

LUMINARE SCHEDULE (1) (2)

TAG	NOTES	DESCRIPTION	CATALOG	VOLTAGE	LAMP	COLOR TEMP.	CATALOG NUMBER
F1	1,4	2'X4' RECESSED LED EDGE LIT PANEL	COOPER LIGHTING METALUX FP SERIES	120	42W	4000K	24FP4740C
F2	1,4	6" RECESSED LED CAN LIGHT	COOPER LIGHTING HALO HC6 SERIES	120	21W	4000K	HC620DB010
F3	1	4' LENSED LED STRIP LIGHT	COOPER LIGHTING SNLED LENSED SERIES	120	52W	4000K	4SNLED-LC-63SL-UNV-L840
F4	1,4,9	6" ROUND SURFACE MOUNT DOWNLIGHT	COOPER LIGHTING HALO SMD6 SERIES	120	16W	4000K	SMD6R 12 940 WH E
F5	1,10	EXTERIOR LED WALL MOUNT FIXTURE	COOPER LIGHTING IMPACT ELITE LED SERIES	120	26W	4000K	ISW-SA1-450-740-U-T4W-FINISH
F6	1,4	2'X4' SURFACE MOUNT LED EDGE LIT PANEL	COOPER LIGHTING METALUX FP SERIES	120	42W	4000K	24FP4740C-CGTSURF24

LUMINARE SCHEDULE NOTES

1. CONTRACTOR SHALL COORDINATE FIXTURE TRIM TYPE WITH ARCHITECTURAL CEILING TYPE. SEE ARCHITECTURAL RCP.
2. UL LISTED AND APPROVED FOR WET LOCATIONS.
3. COORDINATE BUILDING PENETRATIONS WITH EXTERIOR BUILDING SURFACE MATERIALS. PROVIDE MANUFACTURERS LISTED PENETRATION SEALS. ALL PENETRATIONS SHALL BE MADE WATERPROOF. COORDINATE WITH OTHER TRADES REQUIREMENTS WHERE APPLICABLE.
4. WHEN FIXTURE IS DENOTED WITH AN "E", EXAMPLE – F1E, ALL EXIT SIGNS, NIGHT LIGHTS, AND EMERGENCY EGRESS LUMINAIRES SHALL BE PROVIDED WITH INTEGRAL BATTERY PACKS (UNIT EQUIPMENT) SIZED FOR 90 MINUTES MINIMUM OPERATION, PER NFPA 101 AND NEC 700.12(F). EMERGENCY FIXTURES SHALL BE CIRCUITED AHEAD OF LOCAL SWITCHING TO MAINTAIN CONTINUOUS CHARGING. REFER ALSO TO GENERAL NOTE 18 ON SHEET E001 FOR SYSTEM-WIDE REQUIREMENTS, INCLUDING FIELD ACCEPTANCE TESTING FOR 90-MINUTE OPERATION. EXTERIOR EMERGENCY/EGRESS LUMINAIRES MOUNTED MORE THAN 10' ABOVE GRADE SHALL BE PROVIDED WITH EITHER:
   - 4.1. A REMOVE, LOCKABLE, WALL-MOUNTED TEST SWITCH LOCATED INSIDE THE BUILDING NEAR THE NORMAL LIGHTING SWITCH, OR
   - 4.2. A FACTORY SELF-TESTING/SELF-DIAGNOSTIC BATTERY PACK.
   - 4.3. TEST SWITCH LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER PRIOR TO ROUGH-IN.
   - 4.4. ALL EMERGENCY FIXTURES SHALL COMPLY WITH NFPA 101 TESTING REQUIREMENTS (MONTHLY 30-SECOND, ANNUAL 90-MINUTES).
5. PROVIDE WITH ALL COMPONENTS TO MOUNTS SUPSENDED AT REQUIRED MOUNTING HEIGHT.
6. PROVIDE WITH A 30' ROUND ALUMINUM TAPERED POLE. ACUITY MODEL RTA 30 7E DM19AS FBC FINISH. PROVIDE AND INSTALL A CONCRETE POLE BASE, SEE SHEET E501 FOR DETAILS.
7. COORDINATE FINISH WITH ENGINEER DURING THE SUBMITTAL PROCESS.
8. EXIT SIGNS TYPE X1 (CEILING RECESSED) AND X2 (WALL RECESSED) REQUIRE COMPATIBLE CEILING/WALL FRAMING. COORDINATE WITH ARCHITECTURAL CEILING PLANS (RCP). SEE ELECTRICAL LIGHTING SHEETS FOR ARROW INFORMATION ON EXIT SIGNS.
9. COORDINATE FIXTURE COLOR/FINISH WITH ENGINEER DURING THE SUBMITTAL PROCESS.
10. LIGHTING CONTROLLER BY CONTRACTOR. COORDINATE MOUNTING LOCATION IN CONCESSIONS PRIOR TO ROUGH-IN.
11. PROVIDE WITH MOUNTING KIT AS REQUIRED TO MOUNT IN A GYP CEILING.
12. PROVIDE WITH A 16' ROUND ALUMINUM TAPERED POLE. ACUITY MODEL RTA 16 5C DM19AS FBS FINISH. PROVIDE AND INSTALL A CONCRETE POLE BASE, SEE SHEET E501 FOR DETAILS.
13. PROVIDE WITH A 30' ROUND ALUMINUM TAPERED POLE. ACUITY MODEL RTA 30 7E DM28AS FBC FINISH. PROVIDE AND INSTALL A CONCRETE POLE BASE, SEE SHEET E501 FOR DETAILS.

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: MAB
CHECKED BY: KDB

ELECTRICAL ABBREVIATIONS AND SCHEDULES

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VHS SOFTBALL FIELD LIGHTING SCHEDULE

POLE ID	POLE HEIGHT	FIXTURE HEIGHT	FIXTURE QTY.	FIXTURE TYPE	LOAD	CIRCUIT #
A1	70'	70'	1	EPHESUS EPH-3S	.68 KW	MDP-VHS-S-2,4
		70'	3	EPHESUS EPH-4S	2.04 KW	MDP-VHS-S-2,4
		70'	1	EPHESUS EPH-5S	.68 KW	MDP-VHS-S-2,4
		18'				
A2	70'	70'	1	EPHESUS EPH-3S	.68 KW	MDP-VHS-S-6,8
		70'	3	EPHESUS EPH-4S	2.04 KW	MDP-VHS-S-6,8
		70'	1	EPHESUS EPH-5S	.68 KW	MDP-VHS-S-6,8
		70'				
		18'				
B1	70'	70'	3	EPHESUS EPH-2S	2.04 KW	MDP-VHS-S-7,9
		70'	1	EPHESUS EPH-3S	.68 KW	MDP-VHS-S-7,9
		70'	2	EPHESUS EPH-4S	1.36 KW	MDP-VHS-S-7,9
		70'	2	EPHESUS EPH-5S	1.36 KW	MDP-VHS-S-7,9
		70'				
		28'				
B2	70'	70'	3	EPHESUS EPH-2S	2.04 KW	MDP-VHS-S-10,12
		70'	1	EPHESUS EPH-3S	.68 KW	MDP-VHS-S-10,12
		70'	2	EPHESUS EPH-4S	1.36 KW	MDP-VHS-S-10,12
		70'	2	EPHESUS EPH-5S	1.36 KW	MDP-VHS-S-10,12
		70'				
		28'				

SCHEDULE NOTES:

1. ALL FIELD LIGHTING POLES SHALL BE NEW STEEL POLES, SIZED TO ACHIEVE A LUMINAIRE MOUNTING HEIGHT OF 70'-0" ABOVE FINISH GRADE.
2. CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 26 56 68 FOR ADDITIONAL SYSTEM INFORMATION AND REQUIREMENTS.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DURING THE SUBMITTAL PROCESS SHOWING MOUNTING OF ALL EQUIPMENT ON LIGHT POLES, INCLUDING SPEAKERS AND CAMERAS. DRAWINGS SHALL INDICATE MOUNTING HEIGHTS, ORIENTATIONS, ATTACHMENT DETAILS, AND WIRING DIAGRAMS FOR EACH DEVICE. COORDINATE ALL ATTACHMENTS, LOADS, DRILLING PATTERNS, HANDHOLE LOCATIONS, AND INTERNAL CABLE ROUTING WITH THE POLE MANUFACTURER; OBTAIN WRITTEN ACCEPTANCE FROM THE MANUFACTURER FOR THE ADDED EQUIPMENT AND LOADS. COORDINATE FINAL MOUNTING WITH STRUCTURAL AND ELECTRICAL REQUIREMENTS.
4. EPHESUS EPH-2S FIXTURE SHALL BE EPHESUS LUMA SPORT 8 MODEL NUMBER EPH-08-680R-57-70-2S-HEG-S.
5. EPHESUS EPH-3S FIXTURE SHALL BE EPHESUS LUMA SPORT 8 MODEL NUMBER EPH-08-680R-57-70-3S-HEG-S.
6. EPHESUS EPH-4S FIXTURE SHALL BE EPHESUS LUMA SPORT 8 MODEL NUMBER EPH-08-680R-57-70-4S-HEG-S.
7. EPHESUS EPH-5S FIXTURE SHALL BE EPHESUS LUMA SPORT 8 MODEL NUMBER EPH-08-680R-57-70-5S-HEG-S.
8. CONTROLS SHALL BE EPHESUS WIRELESS AIRMESH SYSTEM. PROVIDE SIMPLE ON/OFF CONTROL INTERFACE LOCATED AT THE PRESS BOX. COORDINATE CONTROL DEVICE TYPE, LOCATION, AND NETWORK INTEGRATION WITH THE OWNER AND EPHESUS REPRESENTATIVE PRIOR TO ROUGH-IN.
9. SYSTEM SHALL BE REMOTE POWER TYPE. BULK POWER SUPPLY, DRIVER, AND CONTROL/DISTRIBUTION COMPONENTS SHALL BE LOCATED AT THE BASE OF EACH INDIVIDUAL LIGHT POLE. COORDINATE EXACT LOCATIONS, MOUNTING HEIGHTS, AND ENCLOSURE REQUIREMENTS WITH THE MANUFACTURER.
10. FOR POLE 'A1' AND 'A2', PROVIDE TWO (2) POWER AND CONTROLS (PAC) BOXES AND ONE (1) DISTRIBUTION BOX PER POLE. COORDINATE MOUNTING LOCATIONS, CONDUIT ROUTING, AND CONNECTIONS BETWEEN PAC BOXES, DISTRIBUTION BOX, AND LUMINAIRES WITH THE MANUFACTURER.
11. FOR POLE 'B1' AND 'B2', PROVIDE THREE (3) POWER AND CONTROLS (PAC) BOXES AND ONE (1) DISTRIBUTION BOX PER POLE. COORDINATE MOUNTING LOCATIONS, CONDUIT ROUTING, AND CONNECTIONS BETWEEN PAC BOXES, DISTRIBUTION BOX, AND LUMINAIRES WITH THE MANUFACTURER.
12. COORDINATE EXACT LOCATIONS OF EPHESUS AIRMESH CONTROL SYSTEM ANTENNAS AT PRESS BOX AND LIGHT POLES. VERIFY MOUNTING HEIGHTS, ORIENTATION, AND LINE-OF-SIGHT REQUIREMENTS WITH THE MANUFACTURER TO ENSURE PROPER WIRELESS COMMUNICATION AND SIGNAL STRENGTH.

WCHS SOFTBALL FIELD LIGHTING SCHEDULE

POLE ID	POLE HEIGHT	FIXTURE HEIGHT	FIXTURE QTY.	FIXTURE TYPE	LOAD	CIRCUIT #
A3	70'	70'	1	EPHESUS EPH-3S	.68 KW	MDP-WCHS-S-2,4
		70'	3	EPHESUS EPH-4S	2.04 KW	MDP-WCHS-S-2,4
		70'	1	EPHESUS EPH-5S	.68 KW	MDP-WCHS-S-2,4
		18'				
A4	70'	70'	1	EPHESUS EPH-3S	.68 KW	MDP-WCHS-S-6,8
		70'	3	EPHESUS EPH-4S	2.04 KW	MDP-WCHS-S-6,8
		70'	1	EPHESUS EPH-5S	.68 KW	MDP-WCHS-S-6,8
		70'				
		18'				
B3	70'	70'	3	EPHESUS EPH-2S	2.04 KW	MDP-WCHS-S-10,12
		70'	1	EPHESUS EPH-3S	.68 KW	MDP-WCHS-S-10,12
		70'	2	EPHESUS EPH-4S	1.36 KW	MDP-WCHS-S-10,12
		70'	2	EPHESUS EPH-5S	1.36 KW	MDP-WCHS-S-10,12
		70'				
		28'				
B4	70'	70'	3	EPHESUS EPH-2S	2.04 KW	MDP-WCHS-S-7,9
		70'	1	EPHESUS EPH-3S	.68 KW	MDP-WCHS-S-7,9
		70'	2	EPHESUS EPH-4S	1.36 KW	MDP-WCHS-S-7,9
		70'	2	EPHESUS EPH-5S	1.36 KW	MDP-WCHS-S-7,9
		70'				
		28'				

SCHEDULE NOTES:

1. ALL FIELD LIGHTING POLES SHALL BE NEW STEEL POLES, SIZED TO ACHIEVE A LUMINAIRE MOUNTING HEIGHT OF 70'-0" ABOVE FINISH GRADE.
2. CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 26 56 68 FOR ADDITIONAL SYSTEM INFORMATION AND REQUIREMENTS.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DURING THE SUBMITTAL PROCESS SHOWING MOUNTING OF ALL EQUIPMENT ON LIGHT POLES, INCLUDING SPEAKERS AND CAMERAS. DRAWINGS SHALL INDICATE MOUNTING HEIGHTS, ORIENTATIONS, ATTACHMENT DETAILS, AND WIRING DIAGRAMS FOR EACH DEVICE. COORDINATE ALL ATTACHMENTS, LOADS, DRILLING PATTERNS, HANDHOLE LOCATIONS, AND INTERNAL CABLE ROUTING WITH THE POLE MANUFACTURER; OBTAIN WRITTEN ACCEPTANCE FROM THE MANUFACTURER FOR THE ADDED EQUIPMENT AND LOADS. COORDINATE FINAL MOUNTING WITH STRUCTURAL AND ELECTRICAL REQUIREMENTS.
4. EPHESUS EPH-2S FIXTURE SHALL BE EPHESUS LUMA SPORT 8 MODEL NUMBER EPH-08-680R-57-70-2S-HEG-S.
5. EPHESUS EPH-3S FIXTURE SHALL BE EPHESUS LUMA SPORT 8 MODEL NUMBER EPH-08-680R-57-70-3S-HEG-S.
6. EPHESUS EPH-4S FIXTURE SHALL BE EPHESUS LUMA SPORT 8 MODEL NUMBER EPH-08-680R-57-70-4S-HEG-S.
7. EPHESUS EPH-5S FIXTURE SHALL BE EPHESUS LUMA SPORT 8 MODEL NUMBER EPH-08-680R-57-70-5S-HEG-S.
8. CONTROLS SHALL BE EPHESUS WIRELESS AIRMESH SYSTEM. PROVIDE SIMPLE ON/OFF CONTROL INTERFACE LOCATED AT THE PRESS BOX. COORDINATE CONTROL DEVICE TYPE, LOCATION, AND NETWORK INTEGRATION WITH THE OWNER AND EPHESUS REPRESENTATIVE PRIOR TO ROUGH-IN.
9. SYSTEM SHALL BE REMOTE POWER TYPE. BULK POWER SUPPLY, DRIVER, AND CONTROL/DISTRIBUTION COMPONENTS SHALL BE LOCATED AT THE BASE OF EACH INDIVIDUAL LIGHT POLE. COORDINATE EXACT LOCATIONS, MOUNTING HEIGHTS, AND ENCLOSURE REQUIREMENTS WITH THE MANUFACTURER.
10. FOR POLE 'A3' AND 'A4', PROVIDE TWO (2) POWER AND CONTROLS (PAC) BOXES AND ONE (1) DISTRIBUTION BOX PER POLE. COORDINATE MOUNTING LOCATIONS, CONDUIT ROUTING, AND CONNECTIONS BETWEEN PAC BOXES, DISTRIBUTION BOX, AND LUMINAIRES WITH THE MANUFACTURER.
11. FOR POLE 'B3' AND 'B4', PROVIDE THREE (3) POWER AND CONTROLS (PAC) BOXES AND ONE (1) DISTRIBUTION BOX PER POLE. COORDINATE MOUNTING LOCATIONS, CONDUIT ROUTING, AND CONNECTIONS BETWEEN PAC BOXES, DISTRIBUTION BOX, AND LUMINAIRES WITH THE MANUFACTURER.
12. COORDINATE EXACT LOCATIONS OF EPHESUS AIRMESH CONTROL SYSTEM ANTENNAS AT PRESS BOX AND LIGHT POLES. VERIFY MOUNTING HEIGHTS, ORIENTATION, AND LINE-OF-SIGHT REQUIREMENTS WITH THE MANUFACTURER TO ENSURE PROPER WIRELESS COMMUNICATION AND SIGNAL STRENGTH.

DRAWING E003 NOTES

1. CONTRACTOR SHALL REFERENCE SPECIFICATION SECTION 265668 FOR FURTHER DETAILS.

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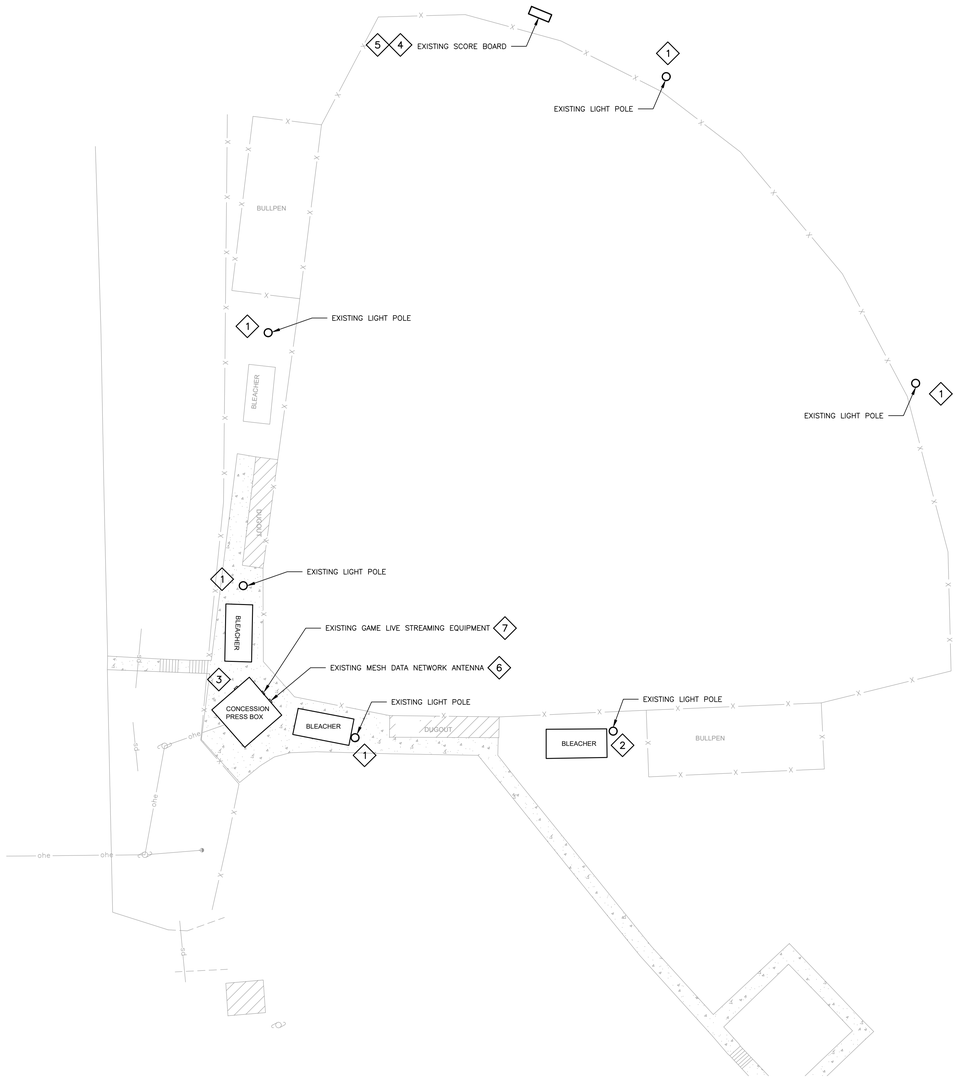
ELECTRICAL STADIUM LIGHTING SCHEDULES

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E003

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1 ELECTRICAL SITE DEMO PLAN - VHS SOFTBALL
SCALE: 1" = 20'-0"

DRAWING E004 NOTES

1. CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF DEMOLITION. NOTIFY ENGINEER OF DISCREPANCIES BEFORE PROCEEDING.
2. CALL 811 AND COORDINATE PRIVATE UTILITY LOCATES. POTHOLE AND HAND-EXPOSE WHEREVER UNDERGROUND CONFLICTS ARE POSSIBLE. PROTECT ALL UTILITIES TO REMAIN.
3. IMPLEMENT LOCKOUT/TAGOUT PER OSHA/NEC. VERIFY ALL CIRCUITS ARE DE-ENERGIZED AT THE SOURCE WITH APPROVED TEST INSTRUMENTS BEFORE DISCONNECTING OR CUTTING ANY CONDUCTORS.
4. REMOVE EXISTING ATHLETIC FIELD LIGHTING SYSTEM IN ITS ENTIRETY WHERE INDICATED, INCLUDING LUMINAIRES, WOOD POLES, ARMS/CROSSARMS, CONTACTORS/RELAYS, CONTROL EQUIPMENT, HANDHOLES, FEEDERS, BRANCH CIRCUITS, GROUND RODS, BONDING JUMPERS, AND ASSOCIATED RACEWAYS. DO NOT DISTURB SCOREBOARD POWER/CONTROLS OR FOUNDATIONS TO REMAIN.
5. COORDINATE ALL POWER OUTAGES, PANEL CUT-OVERS, AND WORK WINDOWS WITH OWNER. PROVIDE TEMPORARY/ALTERNATE FEEDS AS REQUIRED TO MAINTAIN SCOREBOARD AND ANY FIELD SYSTEMS TO REMAIN DURING PANEL REPLACEMENT. PROVIDE TEMPORARY LIGHTING ONLY AS REQUIRED FOR SAFE EGRESS DURING BLEACHER/PRESS BOX WORK.
6. DISCONNECT AND REMOVE LIGHTING FEEDERS AND BRANCH CIRCUITS BACK TO THE UPSTREAM ACTIVE SOURCE (SWITCHBOARD, PANEL, OR JUNCTION) IDENTIFIED FOR CUTBACK. MAINTAIN/PROTECT CIRCUITS SERVING THE SCOREBOARD AND FIELD SYSTEMS TO REMAIN, INCLUDING ANY TEMPORARY RE-FEEDS DURING PANEL DEMOLITION. DO NOT ABANDON LIVE OR DEAD CONDUCTORS IN PLACE.
7. DEMOLISH EXISTING ELECTRICAL PANELS AS INDICATED. PRIOR TO REMOVAL, IDENTIFY AND MIGRATE (OR TEMPORARILY RE-FEED) ALL CIRCUITS SERVING THE SCOREBOARD AND OTHER SYSTEMS TO REMAIN. DISCONNECT AND CAP FEEDERS AT THE UPSTREAM SOURCE PER ENGINEER DIRECTION. TURN OVER UPDATED PANEL SCHEDULES/REDLINES SHOWING CIRCUITS TRANSFERRED OR MADE SPARE.
8. REMOVE ABANDONED CONDUITS WHERE ACCESSIBLE. WHERE REMOVAL WOULD DAMAGE ACTIVE UTILITIES OR THE SCOREBOARD/FIELD SYSTEMS TO REMAIN, CUT CONDUIT FLUSH AND CAP WITH LISTED WATERTIGHT DUCT PLUGS. MARK "ABANDONED." COORDINATE STUB-UPS/ENTRIES AT NEW PANELS TO AVOID REUSE OF DETERIORATED RACEWAYS.
9. REMOVE ABANDONED CONDUITS WHERE ACCESSIBLE. WHERE REMOVAL WOULD DAMAGE ACTIVE UTILITIES OR THE SCOREBOARD/FIELD SYSTEMS TO REMAIN, CUT CONDUIT FLUSH AND CAP WITH LISTED WATERTIGHT DUCT PLUGS. LABEL "ABANDONED."
10. REMOVE ABOVE-GRADE HANDHOLES/JUNCTION BOXES ASSOCIATED WITH LIGHTING OR BLEACHER/PRESS BOX SYSTEMS SCHEDULED FOR DEMO. BELOW-GRADE UNITS: REMOVE BOX AND LID WHERE PRACTICABLE; OTHERWISE CUT AND CAP DUCTS, BACKFILL, AND COMPACT. PROTECT ANY HANDHOLES/DUCTS FEEDING THE SCOREBOARD TO REMAIN.
11. REMOVE WOODEN LIGHT POLES BY CONTROLLED LOWERING AND SECTIONING; DO NOT DROP. EXTRACT POLE BUTTS AND REMOVE EMBEDMENT TO A MINIMUM OF 24 INCHES BELOW FINISHED GRADE (OR FULL DEPTH WHERE NEW WORK CONFLICTS). REMOVE GUY ANCHORS, GROUND PLATES, AND HARDWARE. BACKFILL WITH ENGINEERED FILL AND COMPACT. DO NOT DISTURB SCOREBOARD FOUNDATION.
12. REMOVE GROUNDING ELECTRODES AND BONDING JUMPERS ASSOCIATED WITH WOOD POLES AND DEMOLISHED EQUIPMENT. MAINTAIN AND PROTECT GROUNDING ELECTRODES SERVING THE SCOREBOARD OR OTHER EQUIPMENT TO REMAIN.
13. SALVAGE ONLY ITEMS IDENTIFIED BY OWNER PRIOR TO DEMO. DISPOSE OF WOOD POLES AND TREATED TIMBERS (E.G., CREOSOTE/CCA) IN ACCORDANCE WITH EPA/STATE/LOCAL REQUIREMENTS; PROVIDE DISPOSAL MANIFESTS UPON REQUEST. ALL OTHER DEMO MATERIALS SHALL BE LEGALLY DISPOSED OF OR RECYCLED. SCOREBOARD EQUIPMENT IS NOT IN SCOPE FOR SALVAGE/DEMO.
14. HANDLE LEGACY LAMPS/BALLASTS AS UNIVERSAL WASTE. COLLECT, CONTAIN, AND DISPOSE OF IN ACCORDANCE WITH EPA/STATE REQUIREMENTS. PROVIDE DISPOSAL MANIFESTS UPON REQUEST.
15. PROTECT THE EXISTING SCOREBOARD, FIELD/TURF, TRACK SURFACES, FENCES, AND ANY UTILITIES TO REMAIN. USE SPREAD MATS OR LOW-GROUND-PRESSURE EQUIPMENT WHEN MOVING/LOWERING WOOD POLES OVER TURF. REPAIR ANY DAMAGE AT NO COST TO OWNER.
16. COORDINATE WITH CIVIL FOR FIELD ACCESS, HAUL ROUTES, EROSION CONTROL, AND FINAL GRADING/TURF RESTORATION. DESIGNATE POLE LOWERING ZONES AND LOGISTICS PATHS TO AVOID TURF/IRRIGATION DAMAGE AND SCOREBOARD AREAS.
17. REMOVE ALL ABANDONED CONDUCTOR PULL STRINGS, TRACER WIRES, WARNING TAPE, AND MARKERS ASSOCIATED WITH DEMOED RACEWAYS/DUCTS.
18. TERMINATE, LABEL, AND MAKE SAFE ANY TEMPORARY OR EXISTING CONTROL/NETWORK CABLING ENCOUNTERED DURING BLEACHER/PRESS BOX DEMO. RETAIN AND PROTECT ALL CABLING SERVING THE SCOREBOARD AND FIELD SYSTEMS TO REMAIN.
19. MAINTAIN SITE SAFETY: BARRICADE OPEN EXCAVATIONS AND SECURE WORK AREAS. WOOD POLE REMOVAL SHALL USE TAG LINES, SECTIONING, AND CONTROLLED LOWERING PER OSHA/UTILITY PRACTICE; NO FREE-FALLING OF POLES. CRANE/HOIST OPERATIONS SHALL FOLLOW APPROVED LIFT PLANS. MAINTAIN CLEARANCES FROM THE SCOREBOARD AND OVERHEAD LINES.
20. VERIFY NO OVERHEAD LINE OR SCOREBOARD STRUCTURE CLEARANCE CONFLICTS EXIST PRIOR TO LOWERING WOOD POLES OR REMOVING BLEACHER/PRESS BOX COMPONENTS. COORDINATE WITH UTILITY AS REQUIRED.
21. PRIOR TO BACKFILL, DEMONSTRATE THAT ALL DEMO'D RACEWAY ENDS ARE REMOVED OR PERMANENTLY SEALED AGAINST WATER/PEST INTRUSION. NO ABANDONED ELECTRICAL COMPONENTS SHALL REMAIN EXPOSED. PRESERVE ACTIVE RACEWAYS FEEDING THE SCOREBOARD AND ANY TEMPORARY FEEDS USED FOR CUT-OVER.
22. REMOVE ALL ABANDONED CONCRETE PADS, EQUIPMENT STANDS, BOLLARDS, AND ELECTRICAL SITE ELEMENTS ASSOCIATED WITH THE EXISTING LIGHTING, BLEACHERS, AND PRESS BOX. INCLUDE REMOVAL OF GUY ANCHORS/DEADMEN FOR WOOD POLES. DO NOT REMOVE OR DAMAGE ANY SCOREBOARD-RELATED PADS, CONDUITS, OR FOUNDATIONS TO REMAIN.
23. INCLUDE ALL INCIDENTIALS REQUIRED FOR A COMPLETE AND SAFE DEMOLITION WHETHER OR NOT SPECIFICALLY CALLED OUT IN THESE NOTES.

DRAWING E004 SPECIFIC NOTES

1. CONTRACTOR SHALL DEMOLISH EXISTING FIELD LIGHTING, WOOD POLES (CONTROLLED LOWERING), ARMS, RECEPTACLES, AND ALL ASSOCIATED ACCESSORIES, HANDHOLES, RACEWAYS, AND FOUNDATIONS (REMOVE TO 24" MIN BELOW FINISHED GRADE OR FULL DEPTH WHERE NEW WORK CONFLICTS). REMOVE FEEDERS AND BRANCH CONDUCTORS BACK TO THE UPSTREAM ACTIVE SOURCE (PANEL/SWITCHBOARD OR FIRST ACTIVE JUNCTION) AND CAP/SEAL RACEWAY ENDS WATERTIGHT. MAINTAIN AND PROTECT ALL CIRCUITS/RACEWAYS SERVING THE SCOREBOARD AND FIELD SYSTEMS TO REMAIN.
2. CONTRACTOR SHALL DEMOLISH EXISTING FIELD LIGHTING, WOOD POLES (CONTROLLED LOWERING), ARMS, RECEPTACLES, AND ALL ASSOCIATED ACCESSORIES, HANDHOLES, RACEWAYS, AND FOUNDATIONS (REMOVE TO 24" MIN BELOW FINISHED GRADE OR FULL DEPTH WHERE NEW WORK CONFLICTS). REMOVE FEEDERS/BRANCH CONDUCTORS BACK TO THE UPSTREAM ACTIVE SOURCE AND SEAL RACEWAY ENDS WATERTIGHT. REMOVE EXISTING SPRINKLER/IRRIGATION CONTROLLER WITH CARE FOR REUSE; TAG, PROTECT, AND DELIVER TO OWNER AT LOCATION DESIGNATED. DISCONNECT AND LABEL LOW-VOLTAGE CONTROL CABLES; PROTECT VALVE WIRING/CABLING TO REMAIN. COORDINATE WITH GC FOR FINAL LOCATION OF THE IRRIGATION CONTROL VALVE(S) AND FUTURE CONTROLLER MOUNTING; PRESERVE/PROTECT ANY ACTIVE IRRIGATION EQUIPMENT. DO NOT DISTURB SCOREBOARD POWER/CONTROLS TO REMAIN.
3. CONTRACTOR SHALL DEMOLISH EXISTING MAIN DISTRIBUTION PANEL (MDP) AND METER CAN, INCLUDING ASSOCIATED SERVICE CONDUCTORS/RACEWAYS, CT CABINET (IF PRESENT), DISCONNECTS, AND ANCILLARY HARDWARE AS INDICATED. COORDINATE WITH THE UTILITY FOR SHUTOFF, METER PULL, CUTOVER SCHEDULING, AND RECONNECTION REQUIREMENTS; OBTAIN REQUIRED PERMITS/INSPECTIONS. AFTER DE-ENERGIZATION AND LOCKOUT/TAGOUT, REMOVE CONDUCTORS BACK TO THE SERVICE POINT OR FIRST ACTIVE JUNCTION; CAP/SEAL RACEWAY ENDS WATERTIGHT AND INSTALL FILLER PLATES WHERE EQUIPMENT REMAINS. DEMOLISH THE EXISTING GROUNDING ELECTRODE SYSTEM (GEC, GROUND RODS/PLATES, BONDS, AND CONNECTION HARDWARE) ASSOCIATED WITH THIS SERVICE; REMOVE EXOTHERMIC/MECHANICAL CONNECTIONS AND CUT/EXTRACT ELECTRODES TO 24" MIN BELOW FINISHED GRADE OR FULL DEPTH WHERE CONFLICTS OCCUR. TURN OVER REDLINES SHOWING CIRCUITS TRANSFERRED, MADE SPARE, OR ABANDONED.
4. EXISTING SCOREBOARD TO REMAIN AND BE REUSED. PROTECT IN PLACE DURING DEMOLITION AND ALL SUBSEQUENT CONSTRUCTION ACTIVITIES.
5. REMOVE AND DISPOSE OF EXISTING CONDUCTORS FROM SOURCE TO SCOREBOARD. LEAVE EXISTING CONDUIT IN PLACE FOR REUSE; CAP AND LABEL BOTH ENDS. PROVIDE PULL STRING AND VERIFY CONDUIT IS CLEAR/CONTINUOUS. PROTECT DURING DEMOLITION; REPAIR ANY DAMAGE PRIOR TO REUSE.
6. EXISTING MESH NETWORK SYSTEM TO BE REMOVED, PRESERVED, AND REINSTALLED IN NEW PRESS BOX. CONTRACTOR SHALL CAREFULLY REMOVE ALL COMPONENTS DURING CONSTRUCTION AND PROTECT FOR REUSE. COORDINATE FINAL REINSTALLATION LOCATION AND CONNECTIONS WITH ENGINEER AND OWNER.
7. EXISTING GAME LIVE STREAMING EQUIPMENT TO BE REMOVED, PRESERVED, AND REINSTALLED IN NEW PRESS BOX. CONTRACTOR SHALL CAREFULLY REMOVE ALL COMPONENTS DURING CONSTRUCTION AND PROTECT FOR REUSE. COORDINATE FINAL REINSTALLATION LOCATION AND CONNECTIONS WITH ENGINEER AND OWNER.

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1000 MS-27, Vicksburg, MS 39180

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ELECTRICAL SITE DEMO PLAN - VHS SOFTBALL

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E004

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1 ELECTRICAL SITE DEMO PLAN - VHS BASEBALL
SCALE: 1" = 10'-0"

DRAWING E005 NOTES

1. CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF DEMOLITION. NOTIFY ENGINEER OF DISCREPANCIES BEFORE PROCEEDING.
2. CALL 811 AND COORDINATE PRIVATE UTILITY LOCATES. POTHOLE AND HAND-EXPOSE WHEREVER UNDERGROUND CONFLICTS ARE POSSIBLE. PROTECT ALL UTILITIES TO REMAIN.
3. IMPLEMENT LOCKOUT/TAGOUT PER OSHA/NEC. VERIFY ALL CIRCUITS ARE DE-ENERGIZED AT THE SOURCE WITH APPROVED TEST INSTRUMENTS BEFORE DISCONNECTING OR CUTTING ANY CONDUCTORS.
4. COORDINATE ALL PLANNED POWER OUTAGES WITH OWNER AND UTILITY. PROVIDE MINIMUM FOURTEEN (14) DAYS ADVANCE WRITTEN NOTICE. SCHEDULE OUTAGES TO MINIMIZE DISRUPTION TO OPERATIONS (AFTER-HOURS/WEEKEND AS REQUIRED). PROVIDE TEMPORARY POWER AS NEEDED FOR CRITICAL LOADS. OBTAIN OWNER APPROVAL PRIOR TO SHUTDOWN AND RESTORE SERVICE SAME DAY.
5. REMOVE ABANDONED CONDUITS WHERE ACCESSIBLE. WHERE REMOVAL WOULD DAMAGE ACTIVE UTILITIES OR THE SCOREBOARD/FIELD SYSTEMS TO REMAIN, CUT CONDUIT FLUSH AND CAP WITH LISTED WATERTIGHT DUCT PLUGS. LABEL "ABANDONED."
6. INCLUDE ALL INCIDENTIALS REQUIRED FOR A COMPLETE AND SAFE DEMOLITION WHETHER OR NOT SPECIFICALLY CALLED OUT IN THESE NOTES.
7. COORDINATE ALL WORK WITH LOCAL UTILITY COMPANY. ALL COSTS ASSOCIATED WITH UTILITY COMPANY WORK SHALL BE PAID FROM THE ELECTRICAL UTILITY ALLOWANCE.

DRAWING E005 SPECIFIC NOTES

1 CONTRACTOR SHALL COORDINATE WITH LOCAL ELECTRICAL UTILITY COMPANY TO RELOCATE EXISTING ELECTRICAL DISTRIBUTION DIP POLE. SEE SHEET E102 FOR PROPOSED NEW LOCATION. CONTRACTOR SHALL COORDINATE WITH UTILITY TO REMOVE THE FOLLOWING:
- EXISTING SERVICE ENTRANCE FEEDER FROM ELECTRICAL UTILITY DIP POLE TO SINGLE STORY BRICK BUILDING SERVICE ENTRANCE. CONTRACTOR SHALL DEMOLISH CONDUCTOR AND RESERVE CONDUIT TO BE RE-USED.
- EXISTING SERVICE ENTRANCE FEEDER FROM ELECTRICAL UTILITY DIP POLE TO UNKNOWN LOCATION. CONTRACTOR SHALL FIELD VERIFY EXACT TERMINATION POINT. CONTRACTOR SHALL DEMOLISH CONDUCTOR AND RESERVE CONDUIT TO BE RE-USED.
- OVERHEAD CABLE FROM ELECTRICAL UTILITY DIP POLE TO ELECTRICAL UTILITY TRANSFORMER POLE.

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1 ELECTRICAL SITE DEMO PLAN - WCHS SOFTBALL
SCALE: 1" = 20'-0"

DRAWING E006 NOTES

1. CONTRACTOR SHALL FIELD–VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF DEMOLITION. NOTIFY ENGINEER OF DISCREPANCIES BEFORE PROCEEDING.
2. CALL 811 AND COORDINATE PRIVATE UTILITY LOCATES. POTHOLE AND HAND–EXPOSE WHEREVER UNDERGROUND CONFLICTS ARE POSSIBLE. PROTECT ALL UTILITIES TO REMAIN.
3. IMPLEMENT LOCKOUT/TAGOUT PER OSHA/NEC. VERIFY ALL CIRCUITS ARE DE–ENERGIZED AT THE SOURCE WITH APPROVED TEST INSTRUMENTS BEFORE DISCONNECTING OR CUTTING ANY CONDUCTORS.
4. REMOVE EXISTING ATHLETIC FIELD LIGHTING SYSTEM IN ITS ENTIRETY WHERE INDICATED, INCLUDING LUMINAIRES, WOOD POLES, ARMS/CROSSARMS, CONTACTORS/RELAYS, CONTROL EQUIPMENT, HANDHOLES, FEEDERS, BRANCH CIRCUITS, GROUND RODS, BONDING JUMPERS, AND ASSOCIATED RACEWAYS. DO NOT DISTURB SCOREBOARD POWER/CONTROLS OR FOUNDATIONS TO REMAIN.
5. COORDINATE ALL POWER OUTAGES, PANEL CUT–OVERS, AND WORK WINDOWS WITH OWNER. PROVIDE TEMPORARY/ALTERNATE FEEDS AS REQUIRED TO MAINTAIN SCOREBOARD AND ANY FIELD SYSTEMS TO REMAIN DURING PANEL REPLACEMENT. PROVIDE TEMPORARY LIGHTING ONLY AS REQUIRED FOR SAFE EGRESS DURING BLEACHER/PRESS BOX WORK.
6. DISCONNECT AND REMOVE LIGHTING FEEDERS AND BRANCH CIRCUITS BACK TO THE UPSTREAM ACTIVE SOURCE (SWITCHBOARD, PANEL, OR JUNCTION) IDENTIFIED FOR CUTBACK. MAINTAIN/PROTECT CIRCUITS SERVING THE SCOREBOARD AND FIELD SYSTEMS TO REMAIN, INCLUDING ANY TEMPORARY RE–FEEDS DURING PANEL DEMOLITION. DO NOT ABANDON LIVE OR DEAD CONDUCTORS IN PLACE.
7. DEMOLISH EXISTING ELECTRICAL PANELS AS INDICATED. PRIOR TO REMOVAL, IDENTIFY AND MIGRATE (OR TEMPORARILY RE–FEED) ALL CIRCUITS SERVING THE SCOREBOARD AND OTHER SYSTEMS TO REMAIN. DISCONNECT AND CAP FEEDERS AT THE UPSTREAM SOURCE PER ENGINEER DIRECTION. TURN OVER UPDATED PANEL SCHEDULES/REDLINES SHOWING CIRCUITS TRANSFERRED OR MADE SPARE.
8. REMOVE ABANDONED CONDUITS WHERE ACCESSIBLE. WHERE REMOVAL WOULD DAMAGE ACTIVE UTILITIES OR THE SCOREBOARD/FIELD SYSTEMS TO REMAIN, CUT CONDUIT FLUSH AND CAP WITH LISTED WATERTIGHT DUCT PLUGS. MARK "ABANDONED." COORDINATE STUB–UPS/ENTRIES AT NEW PANELS TO AVOID REUSE OF DETERIORATED RACEWAYS.
9. REMOVE ABANDONED CONDUITS WHERE ACCESSIBLE. WHERE REMOVAL WOULD DAMAGE ACTIVE UTILITIES OR THE SCOREBOARD/FIELD SYSTEMS TO REMAIN, CUT CONDUIT FLUSH AND CAP WITH LISTED WATERTIGHT DUCT PLUGS. LABEL "ABANDONED."
10. REMOVE *ABOVE–GRADE* HANDHOLES/JUNCTION BOXES ASSOCIATED WITH LIGHTING OR BLEACHER/PRESS BOX SYSTEMS SCHEDULED FOR DEMO. BELOW–GRADE UNITS: REMOVE BOX AND LID WHERE PRACTICABLE; OTHERWISE CUT AND CAP DUCTS, BACKFILL, AND COMPACT. PROTECT ANY HANDHOLES/DUCTS FEEDING THE SCOREBOARD TO REMAIN.
11. REMOVE WOODEN LIGHT POLES BY CONTROLLED LOWERING AND SECTIONING; DO NOT DROP. EXTRACT POLE BUTTS AND REMOVE EMBEDMENT TO A MINIMUM OF 24 INCHES BELOW FINISHED GRADE (OR FULL DEPTH WHERE NEW WORK CONFLICTS). REMOVE GUY ANCHORS, GROUND PLATES, AND HARDWARE. BACKFILL WITH ENGINEERED FILL AND COMPACT. DO NOT DISTURB SCOREBOARD FOUNDATION.
12. REMOVE GROUNDING ELECTRODES AND BONDING JUMPERS ASSOCIATED WITH WOOD POLES AND DEMOLISHED EQUIPMENT. MAINTAIN AND PROTECT GROUNDING ELECTRODES SERVING THE SCOREBOARD OR OTHER EQUIPMENT TO REMAIN.
13. SALVAGE ONLY ITEMS IDENTIFIED BY OWNER PRIOR TO DEMO. DISPOSE OF WOOD POLES AND TREATED TIMBERS (E.G., CREOSOTE/CCA) IN ACCORDANCE WITH EPA/STATE/LOCAL REQUIREMENTS; PROVIDE DISPOSAL MANIFESTS UPON REQUEST. ALL OTHER DEMO MATERIALS SHALL BE LEGALLY DISPOSED OF OR RECYCLED. SCOREBOARD EQUIPMENT IS NOT IN SCOPE FOR SALVAGE/DEMO.
14. HANDLE LEGACY LAMPS/BALLASTS AS UNIVERSAL WASTE. COLLECT, CONTAIN, AND DISPOSE OF IN ACCORDANCE WITH EPA/STATE REQUIREMENTS. PROVIDE DISPOSAL MANIFESTS UPON REQUEST.
15. PROTECT THE EXISTING SCOREBOARD, FIELD/TURF, TRACK SURFACES, FENCES, AND ANY UTILITIES TO REMAIN. USE SPREAD MATS OR LOW–GROUND–PRESSURE EQUIPMENT WHEN MOVING/LOWERING WOOD POLES OVER TURF. REPAIR ANY DAMAGE AT NO COST TO OWNER.
16. COORDINATE WITH CIVIL FOR FIELD ACCESS, HAUL ROUTES, EROSION CONTROL, AND FINAL GRADING/TURF RESTORATION. DESIGNATE POLE LOWERING ZONES AND LOGISTICS PATHS TO AVOID TURF/IRRIGATION DAMAGE AND SCOREBOARD AREAS.
17. REMOVE ALL ABANDONED CONDUCTOR PULL STRINGS, TRACER WIRES, WARNING TAPE, AND MARKERS ASSOCIATED WITH DEMOED RACEWAYS/DUCTS.
18. TERMINATE, LABEL, AND MAKE SAFE ANY TEMPORARY OR EXISTING CONTROL/NETWORK CABLING ENCOUNTERED DURING BLEACHER/PRESS BOX DEMO. RETAIN AND PROTECT ALL CABLING SERVING THE SCOREBOARD AND FIELD SYSTEMS TO REMAIN.
19. MAINTAIN SITE SAFETY: BARRICADE OPEN EXCAVATIONS AND SECURE WORK AREAS. WOOD POLE REMOVAL SHALL USE TAG LINES, SECTIONING, AND CONTROLLED LOWERING PER OSHA/UTILITY PRACTICE; NO FREE–FALLING OF POLES. CRANE/HOIST OPERATIONS SHALL FOLLOW APPROVED LIFT PLANS. MAINTAIN CLEARANCES FROM THE SCOREBOARD AND OVERHEAD LINES.
20. VERIFY NO OVERHEAD LINE OR SCOREBOARD STRUCTURE CLEARANCE CONFLICTS EXIST PRIOR TO LOWERING WOOD POLES OR REMOVING BLEACHER/PRESS BOX COMPONENTS. COORDINATE WITH UTILITY AS REQUIRED.
21. PRIOR TO BACKFILL, DEMONSTRATE THAT ALL DEMO'D RACEWAY ENDS ARE REMOVED OR PERMANENTLY SEALED AGAINST WATER/PEST INTRUSION. NO ABANDONED ELECTRICAL COMPONENTS SHALL REMAIN EXPOSED. PRESERVE ACTIVE RACEWAYS FEEDING THE SCOREBOARD AND ANY TEMPORARY FEEDS USED FOR CUT–OVER.
22. REMOVE ALL ABANDONED CONCRETE PADS, EQUIPMENT STANDS, BOLLARDS, AND ELECTRICAL SITE ELEMENTS ASSOCIATED WITH THE EXISTING LIGHTING, BLEACHERS, AND PRESS BOX. INCLUDE REMOVAL OF GUY ANCHORS/DEADMEN FOR WOOD POLES. DO NOT REMOVE OR DAMAGE ANY SCOREBOARD–RELATED PADS, CONDUITS, OR FOUNDATIONS TO REMAIN.
23. INCLUDE ALL INCIDENTIALS REQUIRED FOR A COMPLETE AND SAFE DEMOLITION WHETHER OR NOT SPECIFICALLY CALLED OUT IN THESE NOTES.

DRAWING E006 SPECIFIC NOTES

1. CONTRACTOR SHALL DEMOLISH EXISTING FIELD LIGHTING, WOOD POLES (CONTROLLED LOWERING), ARMS, RECEPTACLES, AND ALL ASSOCIATED ACCESSORIES, HANDHOLES, RACEWAYS, AND FOUNDATIONS (REMOVE TO 24" MIN BELOW FINISHED GRADE OR FULL DEPTH WHERE NEW WORK CONFLICTS). REMOVE FEEDERS/BRANCH CONDUCTORS BACK TO THE UPSTREAM ACTIVE SOURCE AND SEAL RACEWAY ENDS WATERTIGHT. REMOVE EXISTING SPRINKLER/IRRIGATION CONTROLLER WITH CARE FOR REUSE; TAG, PROTECT, AND DELIVER TO OWNER AT LOCATION DESIGNATED. DISCONNECT AND LABEL LOW–VOLTAGE CONTROL CABLES; PROTECT VALVE WIRING/CABLING TO REMAIN. COORDINATE WITH GC FOR FINAL LOCATION OF THE IRRIGATION CONTROL VALVE(S) AND FUTURE CONTROLLER MOUNTING; PRESERVE/PROTECT ANY ACTIVE IRRIGATION EQUIPMENT. DO NOT DISTURB SCOREBOARD POWER/CONTROLS TO REMAIN.
2. CONTRACTOR SHALL DEMOLISH EXISTING FIELD LIGHTING, WOOD POLES (CONTROLLED LOWERING/SECTIONING), ARMS, AUDIO SPEAKERS AND BRACKETS, RECEPTACLES, AND ALL ASSOCIATED ACCESSORIES, HANDHOLES, RACEWAYS, GUY ANCHORS/DEADMEN, AND FOUNDATIONS (REMOVE TO 24" MIN BELOW FINISHED GRADE OR FULL DEPTH WHERE NEW WORK CONFLICTS). DISPOSE OF TREATED WOOD POLES PER EPA/STATE/LOCAL REQUIREMENTS. REMOVE FEEDERS AND BRANCH CONDUCTORS BACK TO THE UPSTREAM ACTIVE SOURCE (PANEL/SWITCHBOARD OR FIRST ACTIVE JUNCTION); IDENTIFY AND PRESERVE CIRCUITS SERVING THE SCOREBOARD AND FIELD SYSTEMS TO REMAIN. CAP/SEAL ALL ABANDONED RACEWAY ENDS WATERTIGHT. DO NOT DISTURB SCOREBOARD POWER/CONTROLS, FIELD/TURF, OR IRRIGATION/NETWORK CABLING TO REMAIN; USE LOW–GROUND–PRESSURE METHODS AND MATS OVER TURF AS REQUIRED.
3. CONTRACTOR SHALL DEMOLISH EXISTING OVERHEAD FIBER–OPTIC CABLE AND ALL SUPPORT HARDWARE FROM THE SOFTBALL PRESS BOX TO THE EXISTING SINGLE STORY BRICK BUILDING IT ROOM, INCLUDING MESSENGER/STRAND, LASHING WIRE, CLAMPS, J–HOOKS, AND WEATHERHEADS. COORDINATE WITH DISTRICT I.T.; VERIFY CIRCUIT IS DECOMMISSIONED AND NOT SERVING THE SCOREBOARD OR OTHER FIELD SYSTEMS TO REMAIN. REMOVE AERIAL HARDWARE FROM WOOD POLES SCHEDULED FOR DEMO. AT BUILDING/ENCLOSURE PENETRATIONS, REMOVE AND PATCH/SEAL OPENINGS TO MATCH THE EXISTING WALL/ROOF SYSTEM — WATERTIGHT, PEST–TIGHT. AT THE SOURCE, EITHER REMOVE CABLE AND CAP/SEAL PORTS OR COIL, LABEL "DARK," AND SECURE INSIDE THE ENCLOSURE PER ENGINEER DIRECTION. PROVIDE AS–DEMOLISHED REDLINES INDICATING FINAL ENDPOINTS AND REMOVALS.
4. CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL PANELS, FEEDERS/BRANCH CONDUCTORS, CONDUITS, BOXES, AND ACCESSORIES FROM THE EXISTING PRESS BOX AS INDICATED. REMOVE FEEDERS ("MAIN CONDUCTORS") BACK TO THE UTILITY SERVICE POINT (TRANSFORMER SECONDARY TERMINALS, CT/ METERING ASSEMBLY, OR FIRST ACTIVE JUNCTION) AS DIRECTED BY THE UTILITY; DO NOT OPEN OR DISTURB UTILITY–OWNED EQUIPMENT WITHOUT UTILITY PRESENCE. COORDINATE METER PULL/SHUTOFF AND CUT–OVER WITH THE UTILITY. CAP/SEAL ALL ABANDONED RACEWAY ENDS WATERTIGHT. COORDINATE LOCKOUT/TAG–OUT AND OUTAGE WINDOWS WITH OWNER. REMOVE ASSOCIATED GROUNDING/BONDING CONDUCTORS AND ELECTRODES FOR THIS PRESS BOX SERVICE/FEED AS PART OF DEMOLITION UNLESS NOTED TO REMAIN. PATCH AND SEAL ALL WALL/ROOF PENETRATIONS TO MATCH ADJACENT CONSTRUCTION — WATERTIGHT, PEST–TIGHT. COORDINATE WITH DISTRICT I.T. BEFORE REMOVING ANY LOW–VOLTAGE/NETWORK CABLING; PRESERVE ANY CIRCUITS SERVING THE SCOREBOARD OR FIELD SYSTEMS TO REMAIN. TURN OVER AS–DEMOLISHED REDLINES SHOWING CUTBACK/TERMINATION POINTS.
5. EXISTING SCOREBOARD TO REMAIN AND BE REUSED. PROTECT IN PLACE DURING DEMOLITION AND ALL SUBSEQUENT CONSTRUCTION ACTIVITIES.
6. REMOVE AND DISPOSE OF EXISTING CONDUCTORS FROM SOURCE TO SCOREBOARD. LEAVE EXISTING CONDUIT IN PLACE FOR REUSE; CAP AND LABEL BOTH ENDS. PROVIDE PULL STRING AND VERIFY CONDUIT IS CLEAR/CONTINUOUS. PROTECT DURING DEMOLITION; REPAIR ANY DAMAGE PRIOR TO REUSE.
7. EXISTING GAME LIVE STREAMING EQUIPMENT TO BE REMOVED, PRESERVED, AND REINSTALLED IN NEW PRESS BOX. CONTRACTOR SHALL CAREFULLY REMOVE ALL COMPONENTS DURING CONSTRUCTION AND PROTECT FOR REUSE. COORDINATE FINAL REINSTALLATION LOCATION AND CONNECTIONS WITH ENGINEER AND OWNER.

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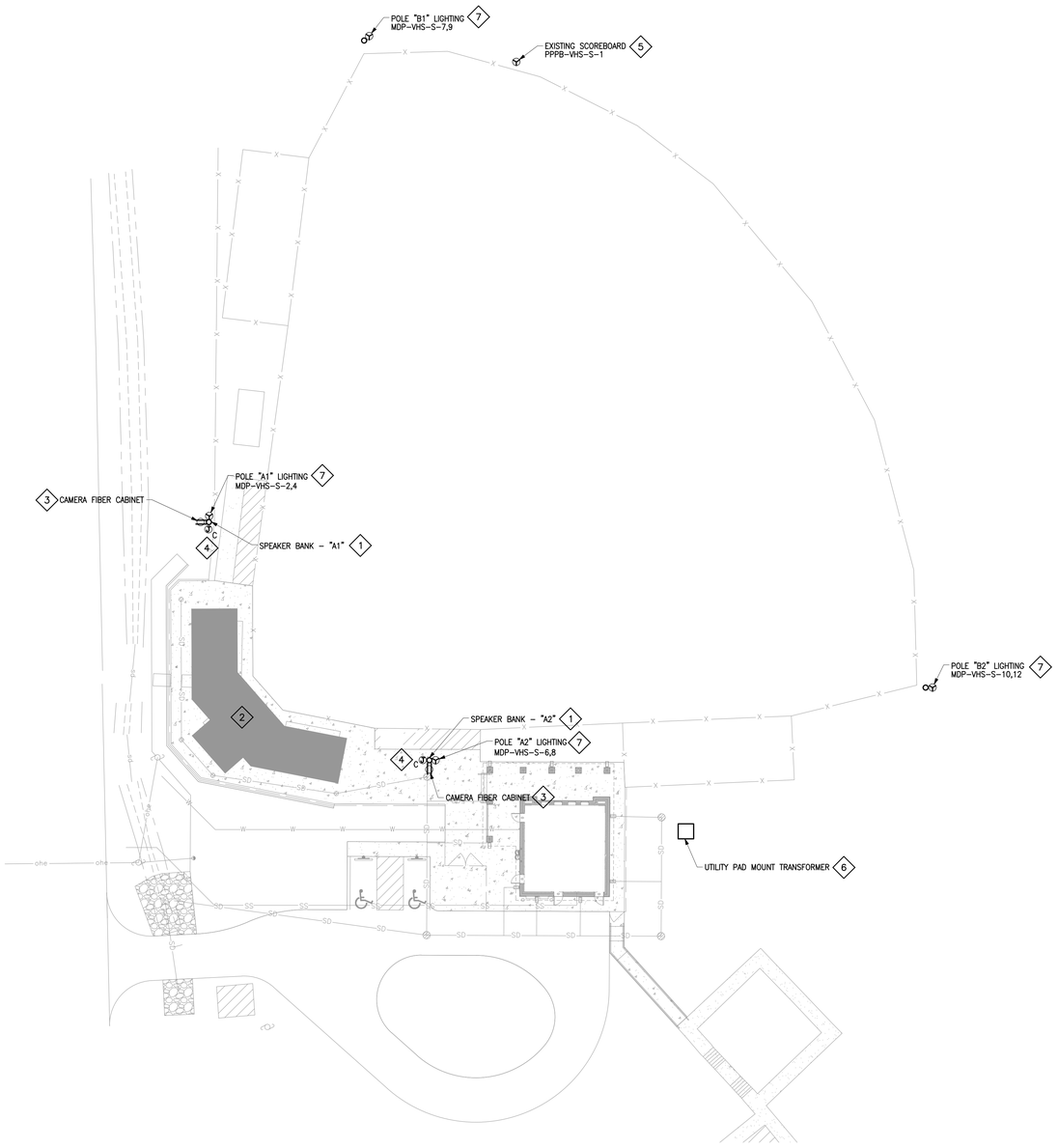
ELECTRICAL SITE DEMO PLAN - WCHS SOFTBALL FIELD

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E006

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1 ELECTRICAL SITE PLAN - VHS SOFTBALL
SCALE: 1" = 20'-0"

DRAWING E101 NOTES

1. REFERENCE SPECIFICATION SECTION 265668 – ATHLETIC FIELD LIGHTING FOR FIXTURE TYPES, POLES/FOUNDATIONS, WIRING METHODS, CONTROLS/INTERFACES, GROUNDING/BONDING, PHOTOMETRIC PERFORMANCE, SUBMITTALS, FIELD AIMING/FOCUSING, COMMISSIONING, AND WARRANTY REQUIREMENTS. COORDINATE INSTALLATION WITH VENDOR'S STAMPED SHOP DRAWINGS AND APPROVED PHOTOMETRICS.
2. POLE FOUNDATIONS, ANCHOR BOLT LAYOUTS, AND REACTION LOADS SHALL BE PROVIDED BY THE ATHLETIC LIGHTING MANUFACTURER, SIGNED AND SEALED BY A MISSISSIPPI–LICENSED PROFESSIONAL ENGINEER, BASED ON PROJECT GEOTECHNICAL PARAMETERS. SUBMIT STAMPED FOUNDATION DETAILS/CALCULATIONS, ANCHOR BOLT TEMPLATES, AND SETTING DRAWINGS FOR REVIEW PRIOR TO EXCAVATION. COORDINATE POLE LOCATIONS, OFFSETS, FINISH GRADES, AND CONDUIT ENTRIES WITH CIVIL/STRUCTURAL; FIELD–VERIFY BEFORE EXCAVATION.
3. ALL POLES SHALL BE INSTALLED PLUMB WITH FINAL AIMING PER MANUFACTURER'S SIGNED AND SEALED PHOTOMETRICS AND AIMING DIAGRAMS. PROVIDE FINAL AIMING REPORTS AND AS–BUILTS.
4. PROVIDE A GROUNDING ELECTRODE SYSTEM AT EACH POLE PER NEC AND MANUFACTURER REQUIREMENTS. BOND POLE, LUMINAIRES, CAMERA ENCLOSURES, HANDHOLES, AND ALL METALLIC COMPONENTS.
5. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 80 PVC WITH LONG–RADIUS SWEEPS. PROVIDE TRACER WIRE, WARNING TAPE, AND 36–INCH MINIMUM COVER UNLESS NOTED OTHERWISE.
6. NO SPLICING OF FEEDERS OR LIGHTING CIRCUITS IS PERMITTED WITHIN POLES OR BELOW GRADE EXCEPT THROUGH LISTED EQUIPMENT AND WHEN SHOWN ON THE DRAWINGS.
7. SEAL ALL CONDUIT ENTRIES TO POLES, JUNCTION BOXES, AND EQUIPMENT CABINETS WITH LISTED SEALANTS/PLUGS TO PREVENT MOISTURE, GAS, AND INSECT INTRUSION.
8. PROTECT EXISTING SCOREBOARD CIRCUITS, IRRIGATION, COMMUNICATIONS, AND UNDERGROUND UTILITIES DURING CONSTRUCTION. REPAIR DAMAGE TO EQUAL OR BETTER THAN ORIGINAL CONDITION AT NO COST TO OWNER.
9. PROVIDE OSHA–COMPLIANT TRENCHING/SHORING, BARRICADES, AND SITE SAFETY. BACKFILL WITH ENGINEERED FILL, COMPACT, AND RESTORE TURF/SURFACES TO MATCH ADJACENT CONDITIONS.
10. FINAL COMMISSIONING SHALL BE PERFORMED WITH OWNER, ENGINEER, AND MANUFACTURER REPRESENTATIVE PRESENT. VERIFY OPERATION, CONTROLS, AND AIMING; RECORD LIGHT LEVELS AND TURN OVER AS–BUILTS AND COMMISSIONING REPORTS.
11. ALL JUNCTION BOXES DENOTED WITH THE LETTER "C" ARE FOR SECURITY CAMERAS (CAMERAS BY OWNER). CONTRACTOR SHALL PROVIDE AND INSTALL A 6–STRAND SINGLE–MODE FIBER–OPTIC CABLE IN 1" CONDUIT FROM THE I.T. RACK IN THE CONCESSIONS BUILDING TO EACH LIGHT POLE, AND TERMINATE IN A NEW EXTERIOR CAMERA FIBER CABINET AT THE BASE OF EACH POLE; SEE SHEET E502 FOR CABINET DETAILS. CAMERA POLE JUNCTION BOXES SHALL BE MOUNTED TO EACH LIGHT POLE AT THE HEIGHT/LOCATION SHOWN AND SHALL BE HOFFMAN 8"X6"X4" (864) NEMA 3R GASKETED STEEL J–BOX (OR EQUAL) WITH DRIP SHIELD AND WEATHERTIGHT HUBS; USE 304 STAINLESS OR HOT–DIP GALVANIZED FASTENERS AND PROVIDE ISOLATION WASHERS TO AVOID DISSIMILAR–METAL CORROSION. BOND THE BOX TO THE POLE GROUND. PROVIDE AND INSTALL A NEMA 5–20R RECEPTACLE INSIDE THE CAMERA FIBER CABINET (WEATHER–RESISTANT, TAMPER–RESISTANT, WITH IN–USE COVER). PROVIDE AND INSTALL OUTDOOR–RATED CAT 6 FROM THE CAMERA J–BOX TO THE CAMERA FIBER CABINET IN WEATHERPROOF RACEWAY; LABEL BOTH ENDS. SEAL ALL PENETRATIONS WEATHER–TIGHT; MAINTAIN SEPARATION FROM FIELD–LIGHTING CIRCUITS. TEST AND CERTIFY FIBER AND COPPER CABLING PER SPECIFICATIONS.

DRAWING E101 SPECIFIC NOTES

1. SPEAKER BANKS SHALL BE MOUNTED TO THE NEW LIGHT POLES. SEE SHEET E611 FOR MORE DETAILS.
2. CONTRACTOR SHALL PROVIDE A #4/0 BARE COPPER CONDUCTOR FROM BLEACHERS TO GROUNDING ELECTRODE SYSTEM. CONTRACTOR SHALL BOND THE BLEACHERS IN A MINIMUM OF 6 PLACES.
3. CONTRACTOR SHALL MOUNT RECEPTACLE INSIDE CAMERA FIBER CABINET. SEE SHEET E502 FOR DETAILS.
4. CONTRACTOR SHALL PROVIDE AND INSTALL A HOFFMAN 864 BOX FOR CAMERA MOUNTING.
5. CONTRACTOR SHALL LOCATE/INTERCEPT THE EXISTING SCOREBOARD POWER CONDUIT AND EXTEND IT TO THE NEW PRESS BOX. PROVIDE A NEW BRANCH CIRCUIT FROM PANEL PPPB–VHS–S TO THE EXISTING SCOREBOARD USING #8 AWG CU THWN–2 (VOLTAGE–DROP BASIS). FIELD–COORDINATE FINAL TERMINATION WITH THE SCOREBOARD; PROVIDE BREAKER/DISCONNECT AS SCHEDULED. REMOVE OR CAP/SEAL ANY ABANDONED FEEDS WATERTIGHT.
6. PAD MOUNTED TRANSFORMER SHALL BE PROVIDED AND INSTALLED BY UTILITY. CONTRACTOR SHALL PROVIDE AND INSTALL TRANSFORMER PAD PER LOCAL UTILITY REQUIREMENTS. COORDINATE ALL DIMENSIONS, CONDUIT STUB–UPS, AND GROUNDING DETAILS WITH UTILITY PRIOR TO CONSTRUCTION. REFER TO SHEET E502 FOR TYPICAL TRANSFORMER PAD DETAILS AND TO ONE–LINE DIAGRAM ON SHEET E601 FOR SERVICE ENTRANCE REQUIREMENTS.
7. PANELBOARD MDP–VHS–S IS LOCATED IN THE CONCESSIONS BUILDING.

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SOFTBALL UPGRADES
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ELECTRICAL SITE PLAN - VHS SOFTBALL

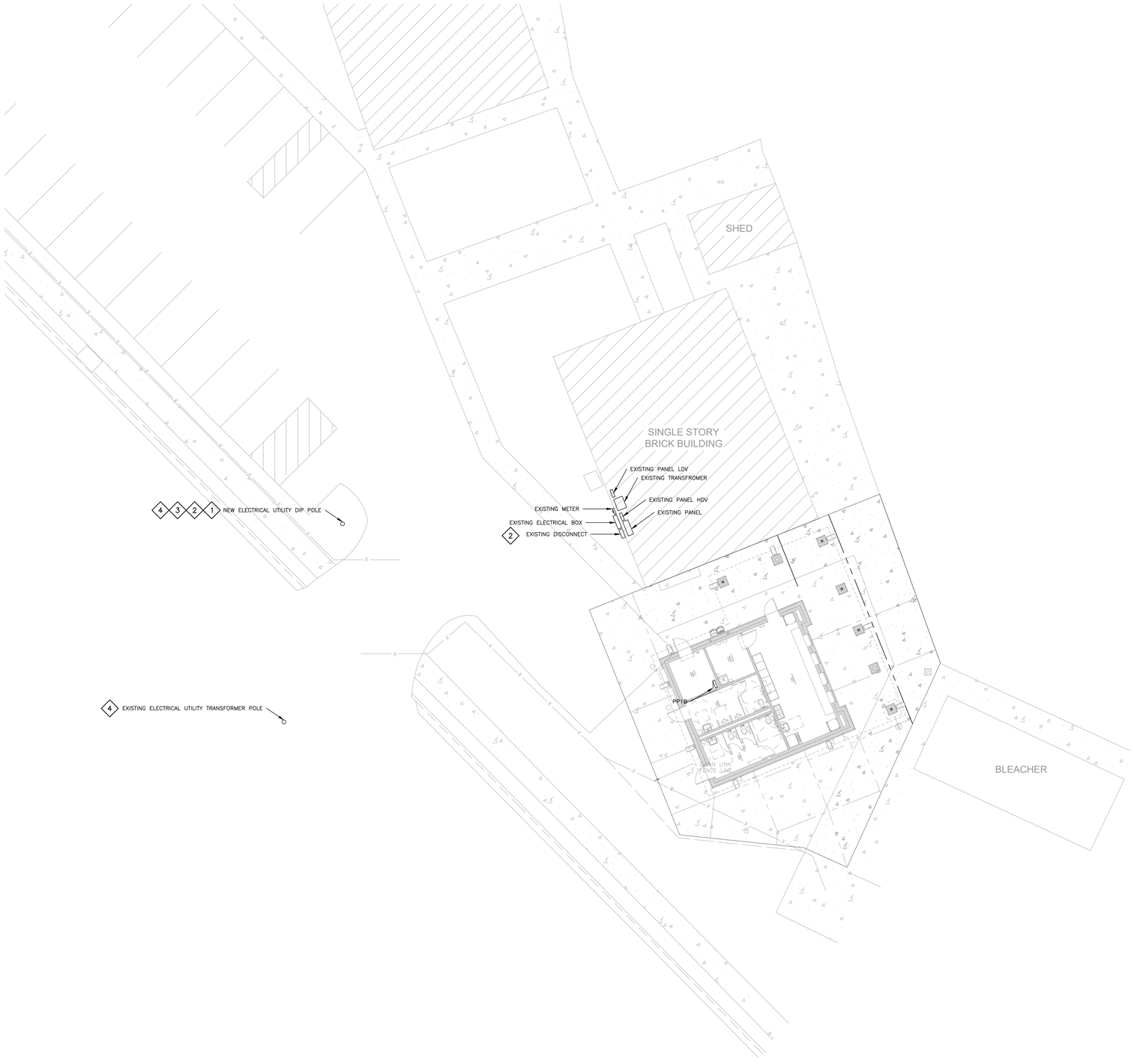
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1 ELECTRICAL SITE PLAN - VHS BASEBALL
SCALE: 1" = 10'-0"

DRAWING E102 NOTES

1. ALL UNDERGROUND CONDUIT BENDS SHALL BE LONG-RADIUS (36-INCH MINIMUM) RIGID GALVANIZED STEEL (RGS).
2. INSTALL DETECTABLE METALLIC WARNING TAPE 12" ABOVE ALL EXTERIOR CONDUITS. COLOR: RED FOR POWER, ORANGE FOR TELECOMMUNICATIONS.
3. ALL EXTERIOR CONDUIT ABOVE GRADE SHALL BE RIGID GALVANIZED STEEL.
4. SAW CUT THROUGH EXISTING ASPHALT AND CONCRETE AND RETURN SURFACE GRADE MATERIALS AND GROUND TO ORIGINAL CONDITION.
5. ALL CONDUIT SHALL BE INSTALLED WITH A MINIMUM COVER OF 36 INCHES BELOW FINISHED GRADE, UNLESS OTHERWISE REQUIRED BY NEC OR LOCAL UTILITY.
6. CONTRACTOR SHALL COORDINATE CONDUIT ROUTING WITH MECHANICAL/PLUMBING PLANS FOR SANITARY SEWER CROSSING.
7. CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTINGS WITH ALL FOOTINGS, FOUNDATIONS, AND PILE LAYOUTS.
8. ALL ELECTRICAL POWER UTILITY COST SHALL BE PAID FROM THE ELECTRICAL POWER UTILITY ALLOWANCE.
9. PROVIDE ALL EMPTY CONDUITS WITH NYLON PULL STRINGS AND CAP ALL ENDS UNTIL USE.

DRAWING E102 SPECIFIC NOTES

1. CONTRACTOR SHALL COORDINATE WITH THE LOCAL ELECTRICAL UTILITY COMPANY TO RELOCATE THE EXISTING ELECTRICAL DISTRIBUTION DIP POLE. NEW LOCATION AS SHOWN ON THIS SHEET. ALL WORK ASSOCIATED WITH THE RELOCATION SHALL BE PERFORMED BY, OR UNDER THE DIRECTION OF, THE UTILITY COMPANY. COORDINATE OUTAGE TIMING AND SHUTDOWNS WITH THE OWNER AND UTILITY. ALL UTILITY COSTS SHALL BE PAID FROM THE ELECTRICAL UTILITY ALLOWANCE.
2. PROVIDE NEW SERVICE-ENTRANCE CONDUCTORS FROM THE NEW UTILITY DIP POLE TO THE SINGLE-STORY BRICK BUILDING SERVICE ENTRANCE. INTERCEPT EXISTING SERVICE-ENTRANCE CONDUIT, RETAIN FOR REUSE, AND EXTEND TO THE NEW POLE LOCATION; PROVIDE NEW CONDUIT/RISERS AS REQUIRED. COORDINATE CONDUCTOR SIZE, NEUTRAL, AND GROUNDING WITH EXISTING SERVICE EQUIPMENT AND UTILITY REQUIREMENTS.
3. PROVIDE NEW SERVICE-ENTRANCE CONDUCTORS FROM THE NEW UTILITY DIP POLE TO THE UNKNOWN SERVICE ENTRANCE (FIELD-VERIFY EXACT TERMINATION/LOCATION). INTERCEPT EXISTING SERVICE-ENTRANCE CONDUIT, RETAIN FOR REUSE, AND EXTEND TO THE NEW POLE LOCATION; PROVIDE NEW CONDUIT/RISERS AS REQUIRED. COORDINATE CONDUCTOR SIZE, NEUTRAL, AND GROUNDING WITH EXISTING SERVICE EQUIPMENT AND UTILITY REQUIREMENTS.
4. CONTRACTOR SHALL COORDINATE WITH LOCAL ELECTRICAL UTILITY COMPANY TO PROVIDE NEW OVERHEAD CABLING FROM THE NEW ELECTRICAL UTILITY DIP POLE TO ELECTRICAL UTILITY TRANSFORMER POLE.

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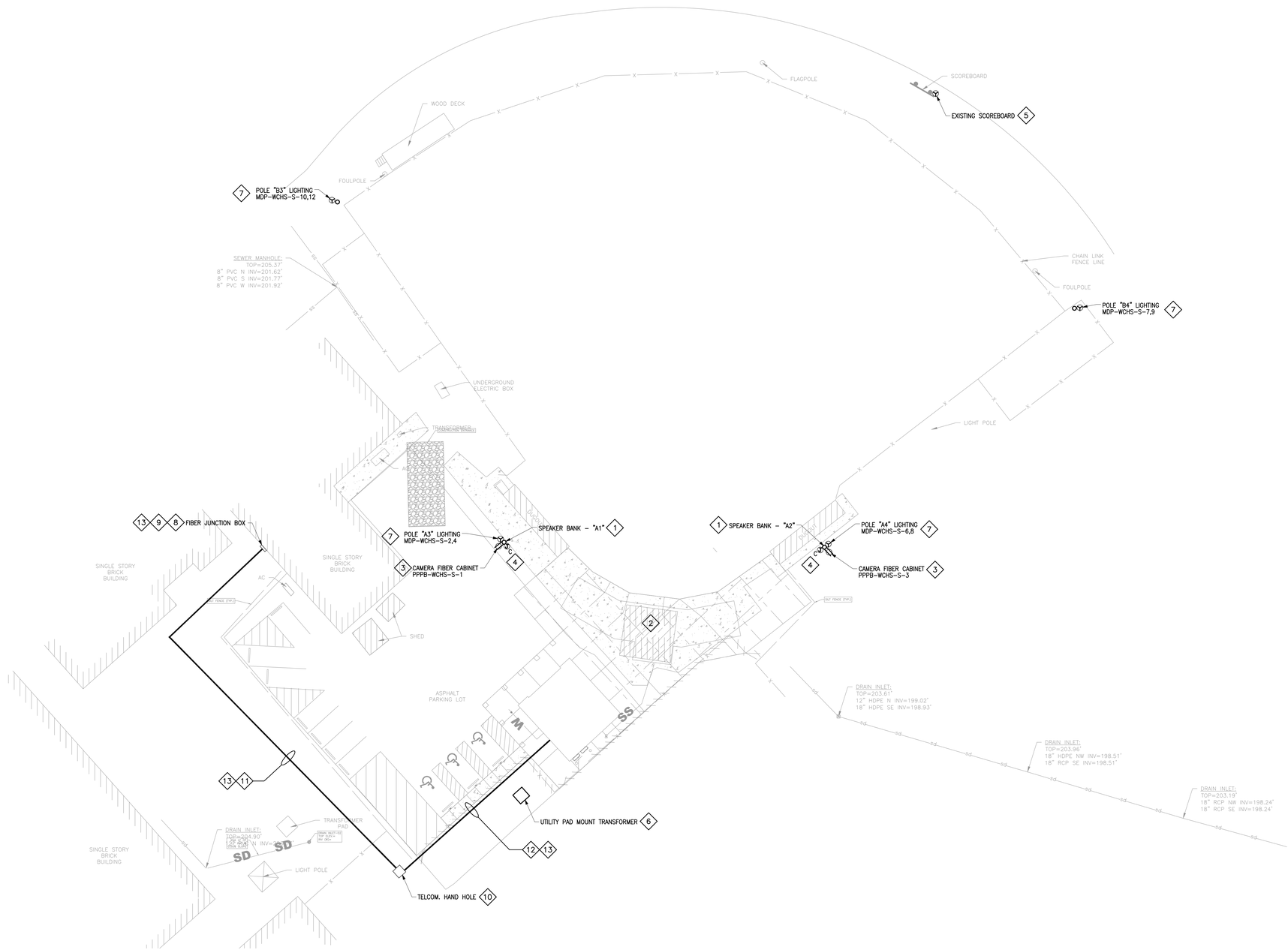
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1 ELECTRICAL SITE PLAN - WCHS SOFTBALL
SCALE: 1" = 20'-0"

DRAWING E103 NOTES

1. REFERENCE SPECIFICATION SECTION 265668 – ATHLETIC FIELD LIGHTING FOR FIXTURE TYPES, POLES/FOUNDATIONS, WIRING METHODS, CONTROLS/INTERFACES, GROUNDING/BONDING, PHOTOMETRIC PERFORMANCE, SUBMITTALS, FIELD AIMING/FOCUSING, COMMISSIONING, AND WARRANTY REQUIREMENTS. COORDINATE INSTALLATION WITH VENDOR'S STAMPED SHOP DRAWINGS AND APPROVED PHOTOMETRICS.
2. POLE FOUNDATIONS, ANCHOR BOLT LAYOUTS, AND REACTION LOADS SHALL BE PROVIDED BY THE ATHLETIC LIGHTING MANUFACTURER, SIGNED AND SEALED BY A MISSISSIPPI–LICENSED PROFESSIONAL ENGINEER, BASED ON PROJECT GEOTECHNICAL PARAMETERS. SUBMIT STAMPED FOUNDATION DETAILS/CALCULATIONS, ANCHOR BOLT TEMPLATES, AND SETTING DRAWINGS FOR REVIEW PRIOR TO EXCAVATION. COORDINATE POLE LOCATIONS, OFFSETS, FINISH GRADES, AND CONDUIT ENTRIES WITH CIVIL/STRUCTURAL; FIELD–VERIFY BEFORE EXCAVATION.
3. ALL POLES SHALL BE INSTALLED PLUMB WITH FINAL AIMING PER MANUFACTURER'S SIGNED AND SEALED PHOTOMETRICS AND AIMING DIAGRAMS. PROVIDE FINAL AIMING REPORTS AND AS–BUILTS.
4. PROVIDE A GROUNDING ELECTRODE SYSTEM AT EACH POLE PER NEC AND MANUFACTURER REQUIREMENTS. BOND POLE, LUMINAIRES, CAMERA ENCLOSURES, HANDHOLES, AND ALL METALLIC COMPONENTS.
5. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 80 PVC WITH LONG–RADIUS SWEEPS. PROVIDE TRACER WIRE, WARNING TAPE, AND 36–INCH MINIMUM COVER UNLESS NOTED OTHERWISE.
6. NO SPLICING OF FEEDERS OR LIGHTING CIRCUITS IS PERMITTED WITHIN POLES OR BELOW GRADE EXCEPT THROUGH LISTED EQUIPMENT AND WHEN SHOWN ON THE DRAWINGS.
7. SEAL ALL CONDUIT ENTRIES TO POLES, JUNCTION BOXES, AND EQUIPMENT CABINETS WITH LISTED SEALANTS/PLUGS TO PREVENT MOISTURE, GAS, AND INSECT INTRUSION.
8. PROTECT EXISTING SCOREBOARD CIRCUITS, IRRIGATION, COMMUNICATIONS, AND UNDERGROUND UTILITIES DURING CONSTRUCTION. REPAIR DAMAGE TO EQUAL OR BETTER THAN ORIGINAL CONDITION AT NO COST TO OWNER.
9. PROVIDE OSHA–COMPLIANT TRENCHING/SHORING, BARRICADES, AND SITE SAFETY. BACKFILL WITH ENGINEERED FILL, COMPACT, AND RESTORE TURF/SURFACES TO MATCH ADJACENT CONDITIONS.
10. FINAL COMMISSIONING SHALL BE PERFORMED WITH OWNER, ENGINEER, AND MANUFACTURER REPRESENTATIVE PRESENT. VERIFY OPERATION, CONTROLS, AND AIMING; RECORD LIGHT LEVELS AND TURN OVER AS–BUILTS AND COMMISSIONING REPORTS.
11. ALL JUNCTION BOXES DENOTED WITH THE LETTER "C" ARE FOR SECURITY CAMERAS (CAMERAS BY OWNER). CONTRACTOR SHALL PROVIDE AND INSTALL A 6–STRAND SINGLE–MODE FIBER–OPTIC CABLE IN 1" CONDUIT FROM THE I.T. RACK IN THE CONCESSIONS BUILDING TO EACH LIGHT POLE, AND TERMINATE IN A NEW EXTERIOR CAMERA FIBER CABINET AT THE BASE OF EACH POLE. SEE SHEET E502 FOR CABINET DETAILS. CAMERA POLE JUNCTION BOXES SHALL BE MOUNTED TO EACH LIGHT POLE AT THE HEIGHT/LOCATION SHOWN AND SHALL BE HOFFMAN 8"X6"X4" (864) NEMA 3R GASKETED STEEL J–BOX (OR EQUAL) WITH DRIP SHIELD AND WEATHERTIGHT HUBS; USE 304 STAINLESS OR HOT–DIP GALVANIZED FASTENERS AND PROVIDE ISOLATION WASHERS TO AVOID DISSIMILAR–METAL CORROSION. BOND THE BOX TO THE POLE GROUND. PROVIDE AND INSTALL A NEMA 5–20R RECEPTACLE INSIDE THE CAMERA FIBER CABINET (WEATHER–RESISTANT, TAMPER–RESISTANT, WITH IN–USE COVER). PROVIDE AND INSTALL OUTDOOR–RATED CAT 6 FROM THE CAMERA J–BOX TO THE CAMERA FIBER CABINET IN WEATHERPROOF RACEWAY; LABEL BOTH ENDS. SEAL ALL PENETRATIONS WEATHER–TIGHT; MAINTAIN SEPARATION FROM FIELD–LIGHTING CIRCUITS. TEST AND CERTIFY FIBER AND COPPER CABLING PER SPECIFICATIONS.

DRAWING E103 SPECIFIC NOTES

1. SPEAKER BANKS SHALL BE MOUNTED TO THE NEW LIGHT POLES. SEE SHEET E611 FOR MORE DETAILS.
2. CONTRACTOR SHALL PROVIDE A #4/0 BARE COPPER CONDUCTOR FROM BLEACHERS TO GROUNDING ELECTRODE SYSTEM. CONTRACTOR SHALL BOND THE BLEACHERS IN A MINIMUM OF 6 PLACES.
3. CONTRACTOR SHALL MOUNT RECEPTACLE INSIDE CAMERA FIBER CABINET. SEE SHEET E502 FOR DETAILS.
4. CONTRACTOR SHALL PROVIDE AND INSTALL A HOFFMAN 864 BOX FOR CAMERA MOUNTING.
5. CONTRACTOR SHALL LOCATE/INTERCEPT THE EXISTING SCOREBOARD POWER CONDUIT AND EXTEND IT TO THE NEW PRESS BOX. PROVIDE A NEW BRANCH CIRCUIT FROM PANEL PPPB–WCHS–S TO THE EXISTING SCOREBOARD USING #8 AWG CU THWN–2 (VOLTAGE–DROP BASIS). FIELD–COORDINATE FINAL TERMINATION WITH THE SCOREBOARD; PROVIDE BREAKER/DISCONNECT AS SCHEDULED. REMOVE OR CAP/SEAL ANY ABANDONED FEEDS WATERTIGHT.
6. PAD MOUNTED TRANSFORMER SHALL BE PROVIDED AND INSTALLED BY UTILITY. CONTRACTOR SHALL PROVIDE AND INSTALL TRANSFORMER PAD PER LOCAL UTILITY REQUIREMENTS. COORDINATE ALL DIMENSIONS, CONDUIT STUB–UPS, AND GROUNDING DETAILS WITH UTILITY PRIOR TO CONSTRUCTION. REFER TO SHEET E502 FOR TYPICAL TRANSFORMER PAD DETAILS AND TO ONE–LINE DIAGRAM ON SHEET E601 FOR SERVICE ENTRANCE REQUIREMENTS.
7. PANELBOARD MDP–WCHS–S IS LOCATED IN THE CONCESSIONS BUILDING.
8. PROVIDE 24" X 12" X 12" NEMA 3R WALL–MOUNTED JUNCTION BOX WITH LOCKABLE HINGED COVER. MOUNT SECURELY TO STRUCTURE AT AN ELEVATION THAT ALLOWS CONDUITS TO ENTER THE BUILDING ABOVE THE LAY–IN CEILING. USE RAINTIGHT HUBS; MAKE ALL WALL PENETRATIONS WATERTIGHT. SLEEVE AND FIRESTOP IF PENETRATING RATED ASSEMBLIES. BOND BOX TO EQUIPMENT GROUND.
9. PROVIDE AND INSTALL TWO (2) 2–INCH CONDUITS FROM THE FIBER JUNCTION BOX TO THE IT RACK IN THE EXISTING SINGLE–STORY BRICK BUILDING. ROUTE ABOVE THE LAY–IN CEILING, CONCEALED WHERE PRACTICABLE. PROVIDE NYLON PULL STRINGS IN EACH CONDUIT; CAP AND LABEL BOTH ENDS. LIMIT TOTAL BENDS TO 360 DEGREES; USE LONG–RADIUS SWEEPS. SLEEVE AND FIRESTOP AT ALL WALL/FLOOR PENETRATIONS. MAINTAIN SEPARATION FROM POWER CONDUCTORS PER CODE. SUPPORT PER NEC/NECA STANDARDS.
10. CONTRACTOR SHALL PROVIDE AND INSTALL A 4–FOOT BY 4–FOOT BY 4–FOOT PRECASE CONCRETE HAND HOLE WITH INTEGRAL FLOOR. HAND HOLE SHALL BE TRAFFIC–RATED PER ASSHTO H–20 AND FURNISHED WITH A LOCKABLE, NON–SKID COVER LABELED "TELECOM". PROVIDE CONDUIT TERMINATIONS WITH BELL ENDS AND PULL STRINGS IN ALL EMPTY CONDUITS. REFER TO CIVIL DRAWINGS FOR STRUCTURAL AND DRAINAGE REQUIREMENTS AND TO ELECTRICAL SHEET E504 FOR HAND HOLE ELECTRICAL DETAILS.
11. CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) 2–INCH PVC CONDUITS FROM NEW FIBER JUNCTION BOX TO NEW TELECOM. HAND HOLE. CONDUITS SHALL BE INSTALLED EMPTY, WITH NYLON PULL STRINGS PROVIDED. TERMINATE ALL CONDUITS WITH PVC BELL ENDS AT BOTH ENDS.
12. CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) 2–INCH PVC CONDUITS FROM NEW TELECOM. HAND HOLE TO NEW TELECOM. BACKBOARD LOCATED IN CONCESSIONS BUILDING. CONDUITS SHALL BE INSTALLED EMPTY, WITH NYLON PULL STRINGS PROVIDED. TERMINATE ALL CONDUITS WITH PVC BELL ENDS AT BOTH ENDS. COORDINATE EXACT STUB–UP LOCATION IN CONCESSIONS BUILDING WITH LOCATION OF TELECOM. BACKBOARD PRIOR TO ROUGH IN.
13. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 12–STRAND (6 DUPLEX) LASER–OPTIMIZED OM3 50/125 µm MULTIMODE FIBER OPTIC CABLE, INDOOR/OUTDOOR, DIELECTRIC, LOOSE–TUBE, WATER–BLOCKED, OFNR RATED (OFNP WHERE INSTALLED IN PLENUMS) FROM EXISTING IT RACK IN THE SINGLE STORY BRICK BUILDING TO NEW IT RACK IN THE CONCESSIONS BUILDING ROUTED THROUGH NEW FIBER PULL BOX, AND NEW TELECOM. HAND HOLE. NO FIELD SPLICE AT BUILDING ENTRANCE (CONTINUOUS CABLE). TERMINATE AT BOTH ENDS ON RACK–MOUNTED PATCH PANEL WITH LC DUPLEX ADAPTERS AND PROVIDE MATCHING LC DUPLEX PATCH CORDS. PROVIDE SERVICE LOOPS (MIN. 10 FT AT EACH HANDHOLE; MIN. 30 FT AT MDF). CAP AND SEAL SPARE CONDUITS.

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

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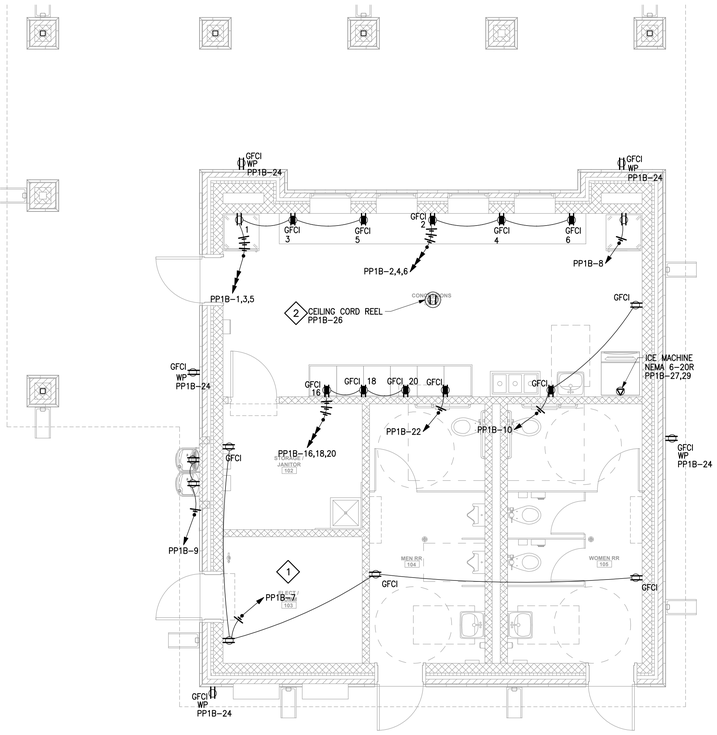
ELECTRICAL SITE PLAN - WCHS SOFTBALL

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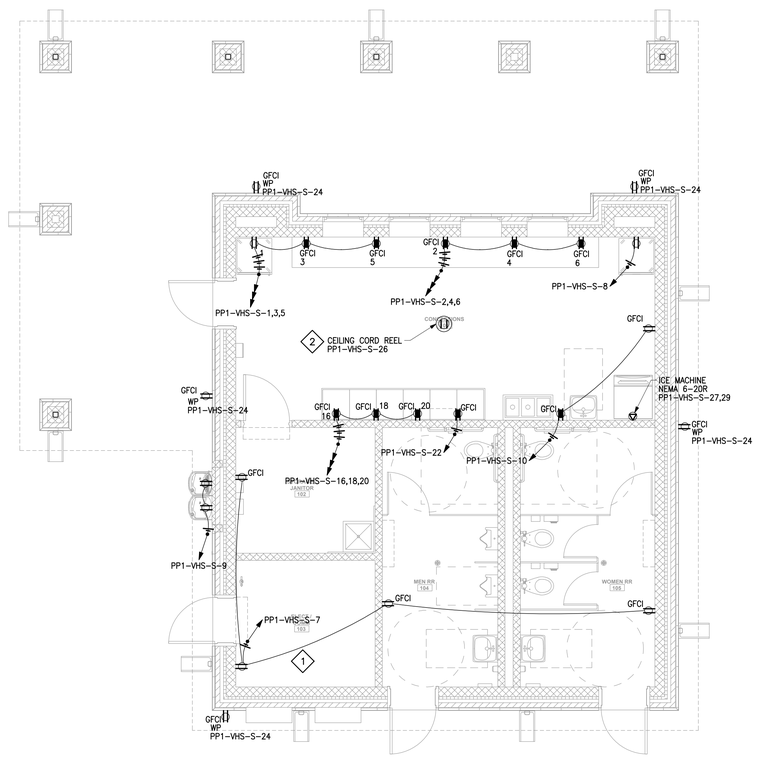
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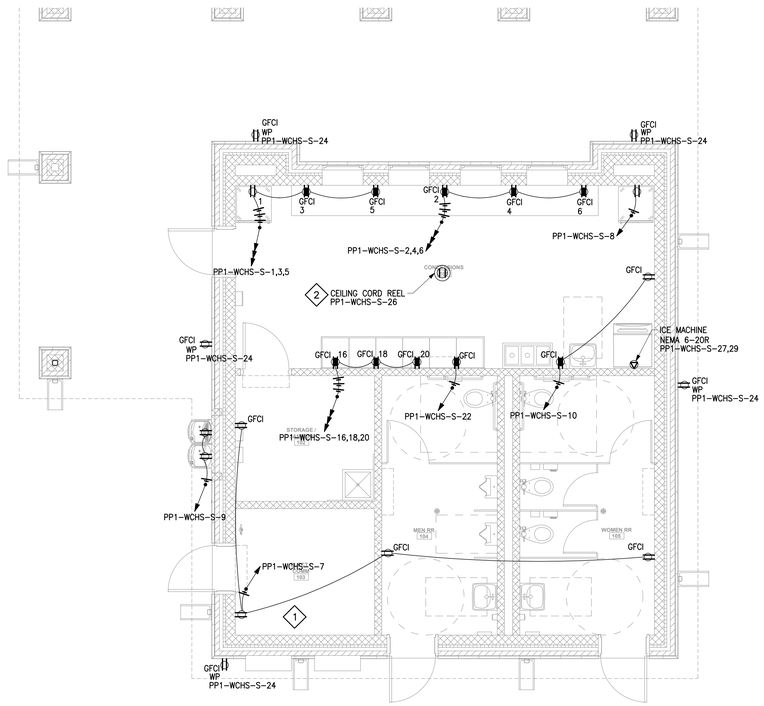
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1 ELECTRICAL POWER PLAN - VHS BASEBALL CONCESSION STAND
SCALE: 1/4" = 1'-0"



2 ELECTRICAL POWER PLAN - VHS SOFTBALL CONCESSION STAND
SCALE: 1/4" = 1'-0"



3 ELECTRICAL POWER PLAN - WCHS SOFTBALL CONCESSION STAND
SCALE: 1/4" = 1'-0"

DRAWING E111 NOTES

1. ALL RECEPTACLE BRANCH CIRCUITS SHALL BE #12 AWG MINIMUM. WHERE CIRCUIT LENGTH EXCEEDS 100' TO THE FIRST DEVICE, INCREASE TO #10 AWG.
2. ALL RECEPTACLES SHALL BE MOUNTED 18" AFF UNLESS OTHERWISE NOTED. COORDINATE COUNTER RECEPTACLES WITH ARCHITECTURAL ELEVATIONS AND CASEWORK.
3. ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL (RGS) OR INTERMEDIATE METAL CONDUIT (IMC), SUITABLE FOR THE ENVIRONMENT.
4. COORDINATE ALL COUNTER RECEPTACLE HEIGHTS WITH ARCHITECTURAL MILLWORK PRIOR TO ROUGH-IN.
5. ALL RECEPTACLES SHALL BE TAMPER-RESISTANT PER NEC 406.12.
6. DRINKING FOUNTAIN RECEPTACLES SHALL BE MOUNTED INSIDE THE ENCLOSURE. PROVIDE GFCI PROTECTION PER NEC 422.52.

DRAWING E111 SPECIFIC NOTES

1. SEE ENLARGED ELECTRICAL/COMM ROOM 103 PLAN ON SHEET E201 FOR EQUIPMENT LAYOUT.
2. SEE SHEET E501 FOR CEILING CORD REEL DETAILS.

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ELECTRICAL POWER PLANS - CONCESSION STANDS

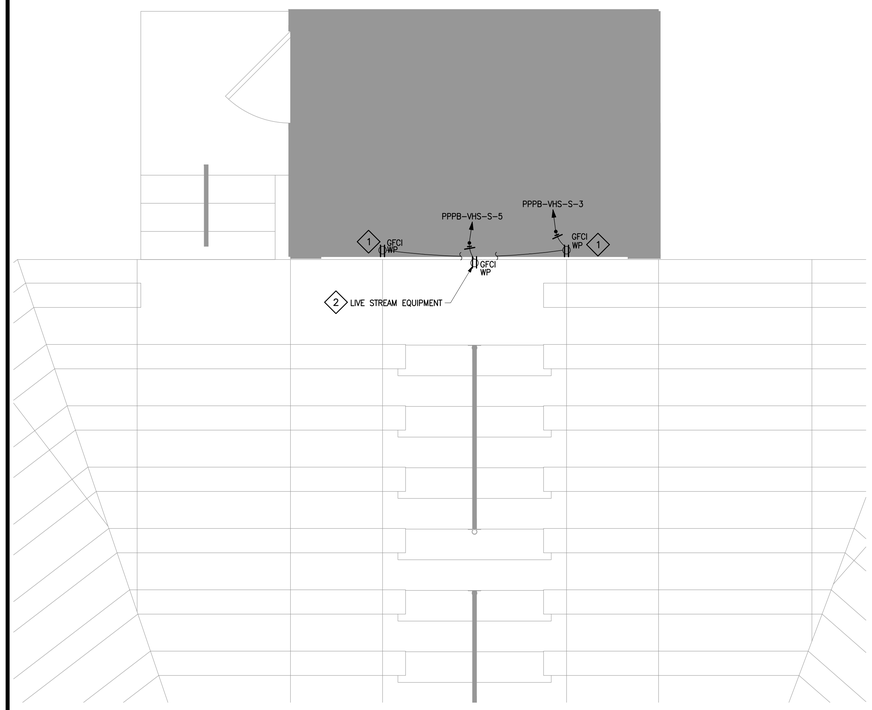
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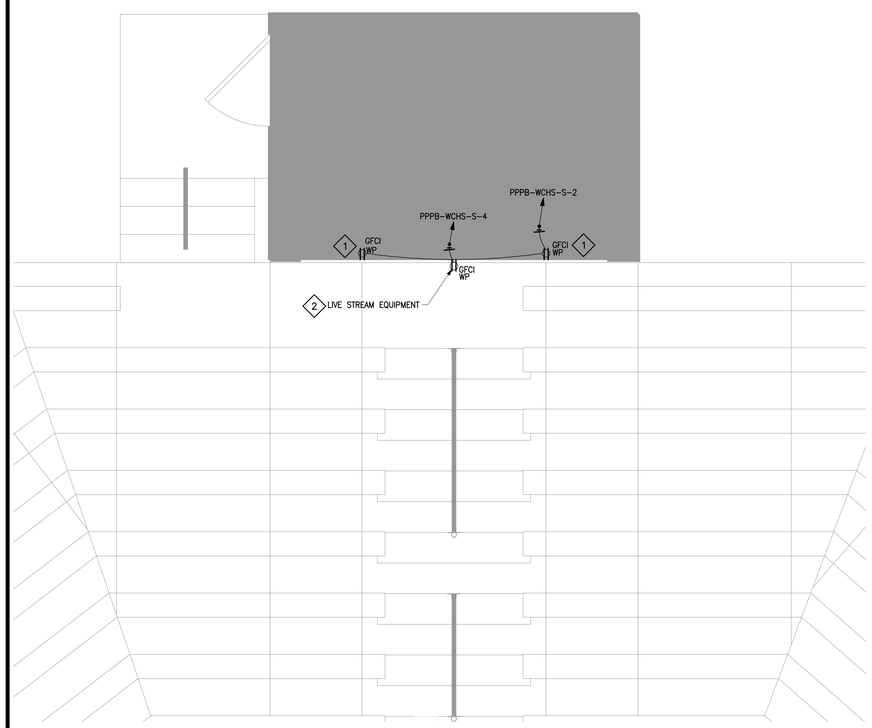
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1 ELECTRICAL POWER PLAN - VHS SOFTBALL PRESS BOX - ROOF PLAN
SCALE: 1/2" = 1'-0"



1 ELECTRICAL POWER PLAN - WCHS SOFTBALL PRESS BOX - ROOF PLAN
SCALE: 1/2" = 1'-0"

DRAWING E112 NOTES

1. ALL UNDERGROUND CONDUIT BENDS SHALL BE LONG-RADIUS (36-INCH MINIMUM) RIGID GALVANIZED STEEL (RGS).
2. INSTALL DETECTABLE METALLIC WARNING TAPE 12" ABOVE ALL EXTERIOR CONDUITS. COLOR: RED FOR POWER, ORANGE FOR TELECOMMUNICATIONS.
3. ALL EXTERIOR CONDUIT ABOVE GRADE SHALL BE RIGID GALVANIZED STEEL.
4. SAW CUT THROUGH EXISTING ASPHALT AND CONCRETE AND RETURN SURFACE GRADE MATERIALS AND GROUND TO ORIGINAL CONDITION.
5. ALL CONDUIT SHALL BE INSTALLED WITH A MINIMUM COVER OF 36 INCHES BELOW FINISHED GRADE, UNLESS OTHERWISE REQUIRED BY NEC OR LOCAL UTILITY.
6. CONTRACTOR SHALL COORDINATE CONDUIT ROUTING WITH MECHANICAL/PLUMBING PLANS FOR SANITARY SEWER CROSSING.
7. CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTINGS WITH ALL FOOTINGS, FOUNDATIONS, AND PILE LAYOUTS.
8. PROVIDE ALL EMPTY CONDUITS WITH NYLON PULL STRINGS AND CAP ALL ENDS UNTIL USE.
9. ALL RECEPTACLE BRANCH CIRCUITS SHALL BE #12 AWG. MINIMUM. WHERE CIRCUIT LENGTH EXCEEDS 100' TO THE FIRST DEVICE, INCREASE TO #10 AWG.
10. ALL RECEPTACLES SHALL BE MOUNTED 48" AFG UNLESS OTHERWISE NOTED.
11. ALL RECEPTACLES SHALL BE TAMPER-RESISTANT PER NEC 406.12.

DRAWING E112 SPECIFIC NOTES

1. PROVIDE ROOF MOUNTED RECEPTACLE ON A FIXED GALVANIZED STANCHION INSTALLED THROUGH A LISTED ROOF PIPE BOOT. ROUTE CONDUIT UP THROUGH THE BOOT; SEAL AND FLASH PER MANUFACTURER'S INSTRUCTIONS – NO FIELD-CAULKED PENETRATIONS. SET RECEPTACLE 12" ABOVE ROOF (CENTERLINE). USE STAINLESS HARDWARE; BOND METALLIC COMPONENTS TO EQUIPMENT GROUND. INSTALL EXPANSION FITTING BELOW ROOF LINE. COORDINATE WITH ROOFING CONTRACTOR FOR FLASHING AND WARRANTY COMPLIANCE. LOCATE CLEAR OF DRAINS, SCUPPERS, AND WALK PATHS; PROVIDE GUARD IF SUBJECT TO DAMAGE.
2. MOUNT LIVE-STREAM EQUIPMENT RECEPTACLE ON THE EXTERIOR FRONT FACE OF THE PRESS BOX, ABOVE THE WINDOWS, LOCATION/ELEVATION AS DIRECTED BY ENGINEER AND OWNER PRIOR TO ROUGH-IN. ROUTE CONDUIT WITHIN WALL CAVITY; PROVIDE SLEEVED, GASKETED, AND SEALED PENETRATIONS THROUGH METAL PANEL/WEATHER BARRIER – NO FIELD-CAULKED ONLY OPENINGS. USE STAINLESS HARDWARE; BOND BOX/EQUIPMENT GROUND PER NEC. MAINTAIN CLEARANCE FROM WINDOW OPERATION/TRIM AND CAMERA SIGHTLINES. LIVE STREAM EQUIPMENT PROVIDED AND INSTALLED BY OWNER.

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ELECTRICAL POWER PLAN
PRESS BOX ROOF

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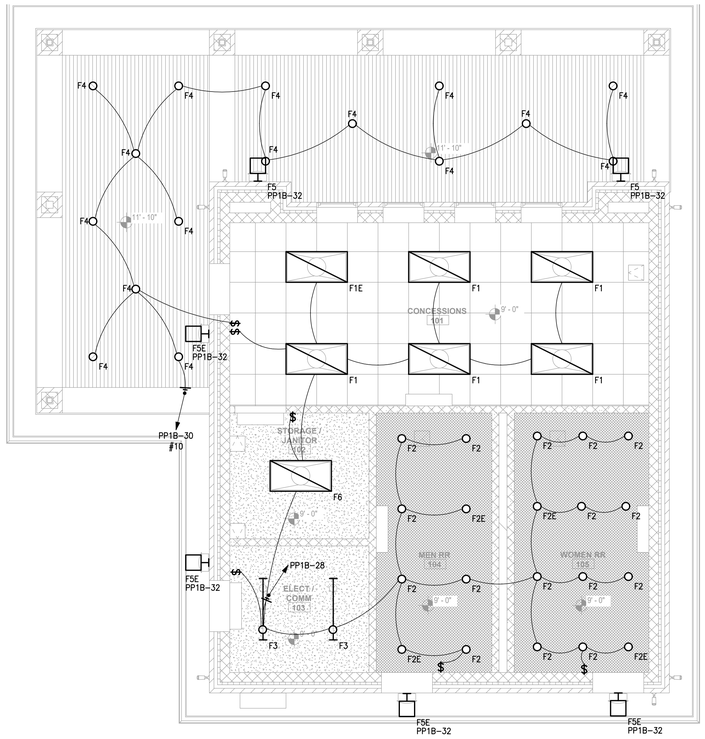
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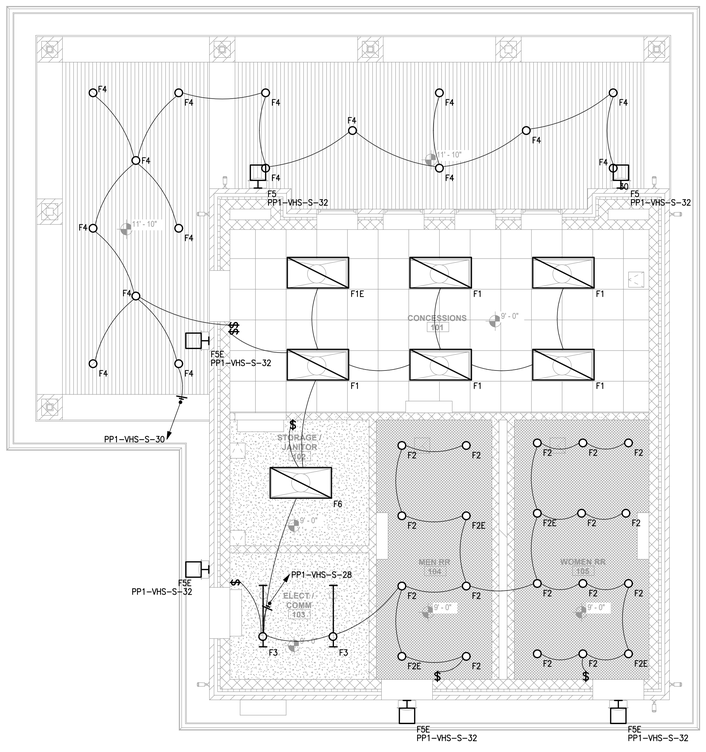
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DRAWING E121 NOTES

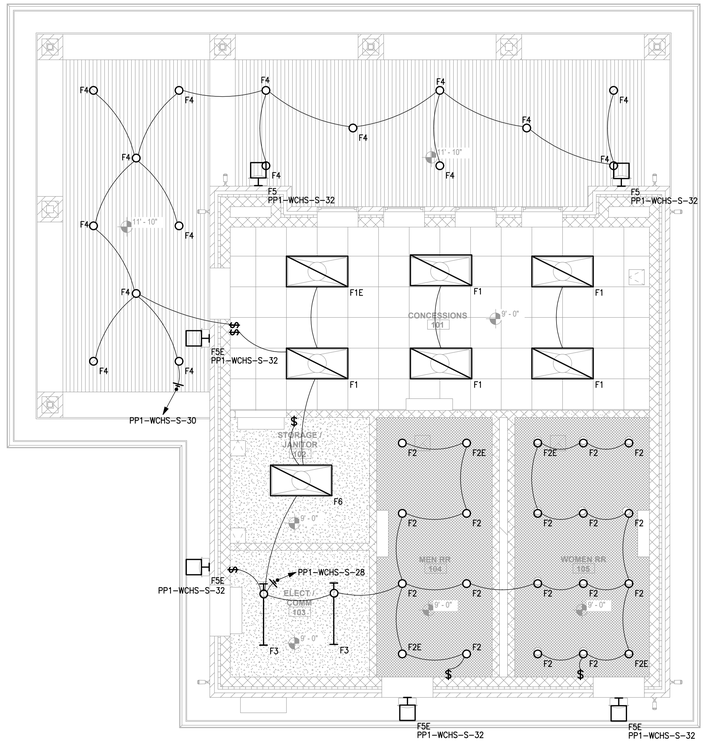
1. ALL LIGHTING BRANCH CIRCUITS SHALL BE #12 AWG MINIMUM. WHERE BRANCH CIRCUIT LENGTH EXCEEDS 100' TO THE FIRST FIXTURE, PROVIDE #10 AWG CONDUCTORS TO LIMIT VOLTAGE DROP.
2. REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT FIXTURE MOUNTING LOCATIONS WITHIN CEILINGS AND FINISHES.
3. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS AND PLANS FOR EXACT MOUNTING HEIGHTS OF WALL-MOUNTED AND PENDANT FIXTURES.
4. REFERENCE ARCHITECTURAL EXTERIOR ELEVATIONS AND PLANS FOR EXACT MOUNTING HEIGHTS OF EXTERIOR WALL-MOUNTED FIXTURES.
5. CIRCUIT PP1B-32 SHALL BE CONTROLLED BY LIGHTING CONTACTOR LC-B; SEE SHEET E201 FOR CONTACTOR LOCATION AND SHEET E502 FOR WIRING DETAILS.
6. CIRCUIT PP1-VHS-S-32 SHALL BE CONTROLLED BY LIGHTING CONTACTOR LC-VHS; SEE SHEET E201 FOR CONTACTOR LOCATION AND SHEET E502 FOR WIRING DETAILS.
7. CIRCUIT PP1-WCHS-S-32 SHALL BE CONTROLLED BY LIGHTING CONTACTOR LC-WCHS; SEE SHEET E201 FOR CONTACTOR LOCATION AND SHEET E502 FOR WIRING DETAILS.
8. CONTRACTOR SHALL COORDINATE MOUNTING HEIGHTS, SUSPENSION METHODS, AND ALIGNMENT OF FIXTURES IN OPEN TO STRUCTURE AREAS WITH STRUCTURAL FRAMING, DUCTWORK, AND OTHER OVERHEAD SYSTEMS. SUBMIT SHOP DRAWINGS SHOWING SUSPENSION DETAILS FOR ENGINEER APPROVAL.



1 ELECTRICAL LIGHTING PLAN - VHS BASEBALL CONCESSION STAND
SCALE: 1/4" = 1'-0"



2 ELECTRICAL LIGHTING PLAN - VHS SOFTBALL CONCESSION STAND
SCALE: 1/4" = 1'-0"



3 ELECTRICAL LIGHTING PLAN - WCHS SOFTBALL CONCESSION STAND
SCALE: 1/4" = 1'-0"

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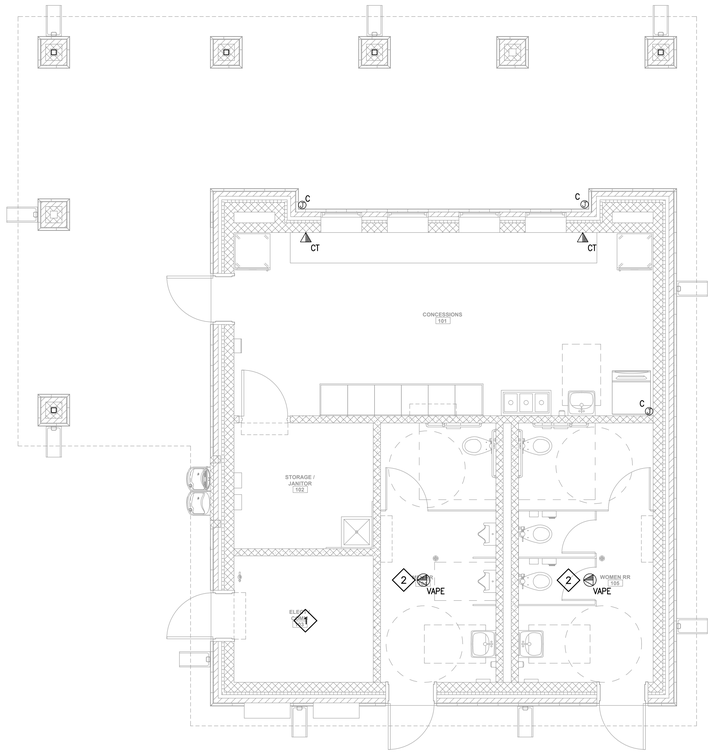
ELECTRICAL LIGHTING PLANS - CONCESSION STANDS

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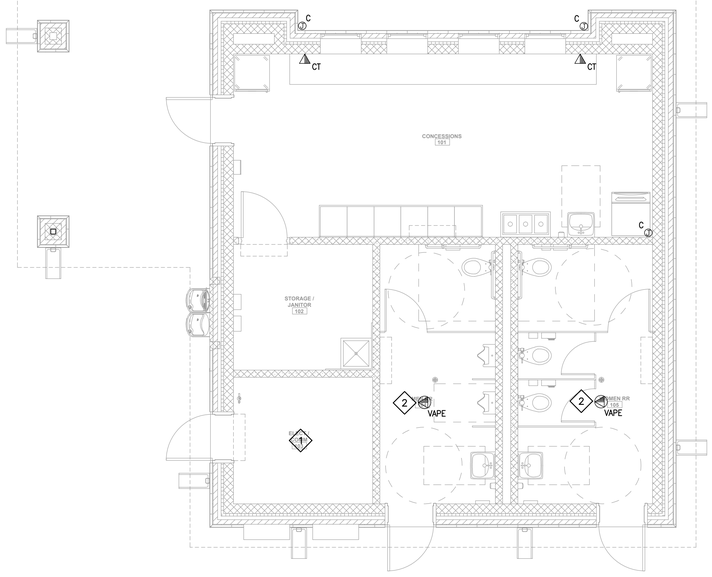
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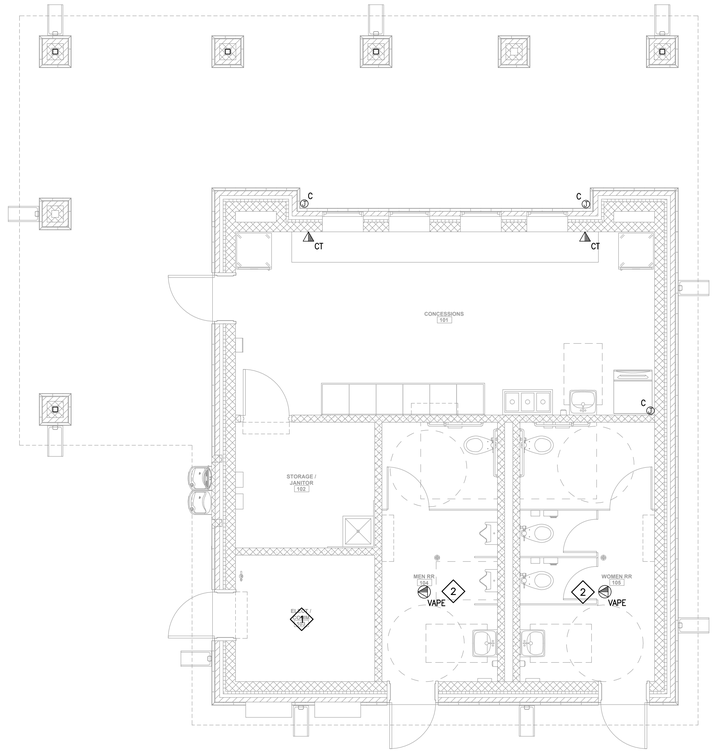
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1 ELECTRICAL SPECIAL SYSTEMS PLAN - VHS BASEBALL CONCESSION STAND
SCALE: 1/4" = 1'-0"



2 ELECTRICAL SPECIAL SYSTEMS PLAN - VHS SOFTBALL CONCESSION STAND
SCALE: 1/4" = 1'-0"



3 ELECTRICAL SPECIAL SYSTEMS - WCHS SOFTBALL CONCESSION STAND
SCALE: 1/4" = 1'-0"

DRAWING E141 NOTES

1. TELECOMMUNICATION CABLING:
- 1.1. CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) CAT6 PLENUM-RATED CABLES, BLUE JACKET, FROM EACH DATA OUTLET BACK TO THE TELECOMMUNICATIONS RACK IN IDF ROOM 113.
- 1.2. TERMINATE ALL CABLES ON RACK-MOUNTED PATCH PANELS IN THE TELECOMMUNICATIONS RACK. PROVIDE LABELING SCHEME COORDINATED WITH THE OWNER/ENGINEER.
- 1.3. CABLING PATHWAYS:
  - 1.3.1. IN INACCESSIBLE CEILINGS OR WHERE EXPOSED, ROUTE CABLE IN CONDUIT.
  - 1.3.2. IN ACCESSIBLE CEILINGS, CABLE MAY BE SUPPORTED ON J-HOOKS (SPACED AT ≤ 5FT AND SIZED FOR ≤ 60% FILL).
  - 1.3.3. ALL CABLING SHALL COMPLY WITH TIA/EIA-568 STANDARDS, WITH MAXIMUM PERMANENT LENGTH OF 90 METERS (295 FT) FROM PATCH PANEL TO OUTLET.

2. SECURITY CAMERA CABLING AND JUNCTION BOXES.
- 2.1. ALL JUNCTION BOXES LABELED "C" ARE DESIGNATED FOR SECURITY CAMERAS. PROVIDE A PATHWAY FROM EACH CAMERA JUNCTION BOX BACK TO THE TELECOMMUNICATIONS RACK IN IDF ROOM 113.
- 2.2. PULL TWO (2) CAT6 PLENUM-RATED CABLES, GREEN JACKET, TO EACH CAMERA LOCATION. TERMINATE ALL CABLES ON RACK-MOUNTED PATCH PANELS; COORDINATE LABELING SCHEME WITH OWNER/ENGINEER.
- 2.3. MOUNT CAMERA JUNCTION BOXES FLUSH WITH OR JUST BELOW THE CEILING AS REQUIRED BY DEVICE TYPE. COORDINATE EXACT LOCATIONS AND ORIENTATIONS WITH OWNER/ENGINEER PRIOR TO ROUGH-IN.
- 2.4. FOR EXTERIOR CAMERAS, COORDINATE MOUNTING HEIGHTS (TYPICALLY 12'-16' AFG) WITH THE ENGINEER. PROVIDE NEMA 4 RATED BOXES AND FITTINGS SUITABLE FOR THE ENVIRONMENT.
- 2.5. CABLING PATHWAYS: IN ACCESSIBLE CEILINGS, CONTRACTOR MAY ROUTE CABLE ON J-HOOKS (SPACED AT ≤ 5FT AND SIZED FOR ≤ 60% FILL). IN INACCESSIBLE CEILINGS OR WHERE EXPOSED, PROVIDE 3/4" CONDUIT.
- 2.6. ALL CAMERA CABLING SHALL COMPLY WITH TIA/EIA-568 STANDARDS, WITH A MAXIMUM PERMANENT LENGTH OF 90 METERS (295FT) FROM PATCH PANEL TO DEVICE.

3. DUCT AND DAMPER SMOKE DETECTORS:
- 3.1. ALL DUCT-MOUNTED SMOKE DETECTORS AND DAMPER-ASSOCIATED SMOKE DETECTORS SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL/CONTROLS CONTRACTOR IN ACCORDANCE WITH NFPA 72 AND NFPA 90A.
- 3.2. THE FIRE ALARM CONTRACTOR SHALL FURNISH AND INSTALL ALL ADDRESSABLE MONITOR/CONTROL MODULES, WIRING, POWER CONNECTIONS, AND PROGRAMMING NECESSARY TO INTEGRATE THESE DETECTORS INTO THE FIRE ALARM SYSTEM.
- 3.3. THE MECHANICAL CONTRACTOR SHALL PROVIDE REMOTE TEST/RESET STATIONS AND LABELS WHERE REQUIRED BY CODE.
- 3.4. CONTRACTORS SHALL REFERENCE THE MECHANICAL DRAWINGS FOR EXACT QUANTITIES AND LOCATIONS, AND COORDINATE ALL FINAL LOCATIONS IN THE FIELD PRIOR TO ROUGH-IN.

4. CONTRACTOR SHALL PROVIDE AND LEAVE IN PLACE A CONTINUOUS NYLON/POLYESTER PULL STRING (MINIMUM 200 LB TENSILE STRENGTH) IN ALL EMPTY CONDUITS AND RACEWAYS. PULL STRINGS SHALL BE TIED OFF AND LABELED AT BOTH ENDS FOR FUTURE USE.

DRAWING E141 SPECIFIC NOTES

1. SEE ENLARGED ELEC/COMM ROOM 103 PLAN ON SHEET E201 FOR ELECTRICAL EQUIPMENT LAYOUT.
2. VAPE SENSOR BY OWNER – CONTRACTOR TO PROVIDE CONDUIT, BOX, AND CAT6 CABLE WITH PULL STRING. TERMINATE CAT6 CABLE IN JUNCTION BOX WITH 10-FOOT SERVICE LOOP. COORDINATE FINAL DEVICE LOCATION AND CABLE ROUTING WITH OWNER PRIOR TO ROUGH-IN.

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
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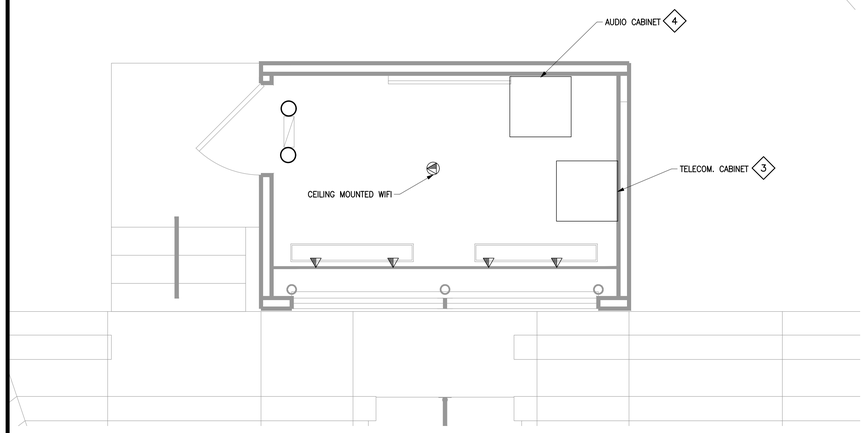
ELECTRICAL SPECIAL SYSTEMS PLAN
CONCESSION STANDS

E141

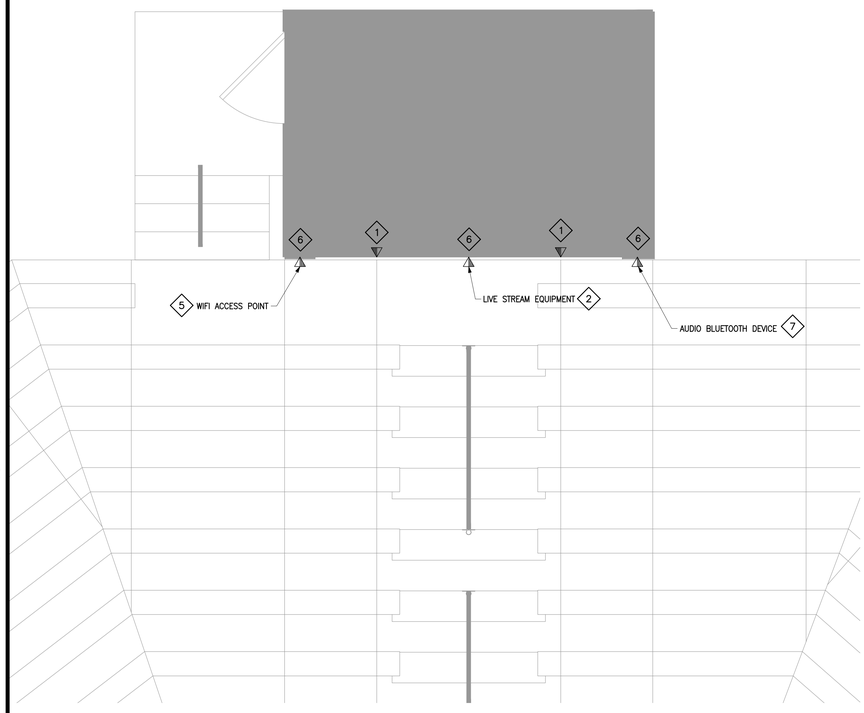
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1 ELECTRICAL SPECIAL SYSTEMS PLAN - VHS SOFTBALL PRESS BOX - FLOOR PLAN
SCALE: 1/2" = 1'-0"



2 ELECTRICAL SPECIAL SYSTEMS PLAN - VHS SOFTBALL PRESS BOX - ROOF PLAN
SCALE: 1/2" = 1'-0"

DRAWING E142 NOTES

1. **TELECOMMUNICATION CABLING:**
   - 1.1. CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) CAT6 PLENUM-RATED CABLES, BLUE JACKET, FROM EACH DATA OUTLET BACK TO THE TELECOMMUNICATIONS CABINET IN PRESS BOX.
   - 1.2. TERMINATE ALL CABLES ON RACK-MOUNTED PATCH PANELS IN THE TELECOMMUNICATIONS CABINET IN THE PRESS BOX. PROVIDE LABELING SCHEME COORDINATED WITH THE OWNER/ENGINEER.
   - 1.3. CABLING PATHWAYS:
     - 1.3.1. IN INACCESSIBLE CEILINGS OR WHERE EXPOSED, ROUTE CABLE IN CONDUIT.
     - 1.3.2. IN ACCESSIBLE CEILINGS, CABLE MAY BE SUPPORTED ON J-HOOKS (SPACED AT ≤ 5FT AND SIZED FOR ≤ 60% FILL).
     - 1.3.3. ALL CABLING SHALL COMPLY WITH TIA/EIA-568 STANDARDS, WITH MAXIMUM PERMANENT LENGTH OF 90 METERS (295 FT) FROM PATCH PANEL TO OUTLET.
2. **SECURITY CAMERA CABLING AND JUNCTION BOXES.**
   - 2.1. ALL JUNCTION BOXES LABELED "C" ARE DESIGNATED FOR SECURITY CAMERAS. PROVIDE A PATHWAY FROM EACH CAMERA JUNCTION BOX BACK TO THE TELECOMMUNICATIONS CABINET IN THE PRESS BOX.
   - 2.2. PULL TWO (2) CAT6 PLENUM-RATED CABLES, GREEN JACKET, TO EACH CAMERA LOCATION. TERMINATE ALL CABLES ON RACK-MOUNTED PATCH PANELS; COORDINATE LABELING SCHEME WITH OWNER/ENGINEER.
   - 2.3. MOUNT CAMERA JUNCTION BOXES FLUSH WITH OR JUST BELOW THE CEILING AS REQUIRED BY DEVICE TYPE. COORDINATE EXACT LOCATIONS AND ORIENTATIONS WITH OWNER/ENGINEER PRIOR TO ROUGH-IN.
   - 2.4. FOR EXTERIOR CAMERAS, COORDINATE MOUNTING HEIGHTS (TYPICALLY 12'-16' AFG) WITH THE ENGINEER. MOUNT TO FACE OF GRANDSTAND. PROVIDE NEMA 4 RATED BOXES AND FITTINGS SUITABLE FOR THE ENVIRONMENT.
   - 2.5. CABLING PATHWAYS: IN ACCESSIBLE CEILINGS, CONTRACTOR MAY ROUTE CABLE ON J-HOOKS (SPACED AT ≤ 5FT AND SIZED FOR ≤ 60% FILL). IN INACCESSIBLE CEILINGS OR WHERE EXPOSED, PROVIDE 3/4" CONDUIT.
   - 2.6. ALL CAMERA CABLING SHALL COMPLY WITH TIA/EIA-568 STANDARDS, WITH A MAXIMUM PERMANENT LENGTH OF 90 METERS (295FT) FROM PATCH PANEL TO DEVICE.
3. CONTRACTOR SHALL PROVIDE AND LEAVE IN PLACE A CONTINUOUS NYLON/POLYESTER PULL STRING (MINIMUM 200 LB TENSILE STRENGTH) IN ALL EMPTY CONDUITS AND RACEWAYS. PULL STRINGS SHALL BE TIED OFF AND LABELED AT BOTH ENDS FOR FUTURE USE.

DRAWING E142 SPECIFIC NOTES

1. ROOF DATA OUTLET (PIPE-BOOT MOUNT): PROVIDE ROOF-MOUNTED DATA OUTLET ON A FIXED GALVANIZED STANCHION (MIN. 1-1/2" RGS) INSTALLED THROUGH A LISTED ROOF PIPE BOOT; FLASH AND SEAL STRICTLY PER MANUFACTURER – NO FIELD-CAULKED OR PITCH-POCKET PENETRATIONS. SET OUTLET 12" A.F.R. (CENTERLINE) IN A NEMA 4X, UV-RATED WEATHERPROOF BOX WITH GASKETED IN-USE COVER AND DUST-CAPPED RJ45 JACK(S). SLEEVE CONDUIT THROUGH ROOF WITH RGS; PROVIDE A LISTED EXPANSION/DEFLECTION FITTING BELOW THE ROOF LINE. USE STAINLESS STEEL HARDWARE; BOND ALL METALLIC COMPONENTS TO THE EQUIPMENT GROUND. ROUTE CAT6 IN CONTINUOUS RACEWAY (NO ROOF-EXPOSED CABLE, NO SPLICES IN ROOF ASSEMBLY) BACK TO THE PRESS BOX TELECOM CABINET. SURGE SUPPRESSION: PROVIDE AN OUTDOOR-RATED ETHERNET SURGE PROTECTOR (PoE-COMPATIBLE WHERE APPLICABLE) AT THE ROOF OUTLET OR JUST INSIDE THE PENETRATION; BOND PER MANUFACTURER'S INSTRUCTIONS AND TERMINATE TO THE SAME GROUNDING POINT AS THE STANCHION. COORDINATE ALL WORK WITH THE PRESS BOX MANUFACTURER FOR FLASHING AND WARRANTY COMPLIANCE; LOCATE CLEAR OF DRAINS, SCUPPERS, AND WALK PATHS; PROVIDE A GUARD IF SUBJECT TO DAMAGE. CERTIFY CAT6 PERMANENT LINK PERFORMANCE.
2. LIVE-STREAM DATA OUTLET (PRESS BOX FRONT): MOUNT WEATHERPROOF DATA OUTLET ON THE EXTERIOR FRONT FACE ABOVE WINDOWS; LOCATION/ELEVATION AS DIRECTED BY ENGINEER AND OWNER PRIOR TO ROUGH-IN. PROVIDE NEMA 4X, UV-RATED BOX WITH GASKETED IN-USE COVER AND DUST-CAPPED RJ45 JACK(S); USE STAINLESS HARDWARE AND PROVIDE DRIP LOOP. ROUTE CONDUIT WITHIN WALL CAVITY; PROVIDE FACTORY-SLEEVED/GASKETED PENETRATIONS AND FLASHING THROUGH METAL PANEL/WEATHER BARRIER – NO FIELD-CAULK-ONLY OPENINGS; COORDINATE WITH PRESS BOX MANUFACTURER TO MAINTAIN WARRANTY. BOND BOX AND ANY METALLIC RACEWAY TO EQUIPMENT GROUND PER NEC; MAINTAIN REQUIRED CLEARANCES FROM OPERABLE WINDOW HARDWARE/TRIM AND CAMERA SIGHTLINES. PROVIDE OUTDOOR-RATED, POE-COMPATIBLE ETHERNET SURGE PROTECTOR AT THE OUTLET OR JUST INSIDE THE PENETRATION; BOND SURGE DEVICE PER MANUFACTURER TO THE SAME GROUNDING POINT. ROUTE CAT6 IN CONTINUOUS RACEWAY (NO EXPOSED CABLE, NO SPLICES) BACK TO THE PRESS BOX TELECOM CABINET; LABEL BOTH ENDS AND TEST/CERTIFY CAT6 PERMANENT LINK PERFORMANCE. LIVE-STREAM EQUIPMENT BY OWNER.
3. PROVIDE ONE (1) 19-INCH WALL-MOUNT SWING-OUT TELECOMMUNICATIONS CABINET, 18U, 24-INCH DEPTH, VENTED SIDES/DOOR WITH LOCK. MOUNT TO UNISTRUT BACKING; VERIFY WALL STRUCTURE SUPPORTS FULLY-LOADED WEIGHT. PROVIDE (2) DEDICATED 120V, 20A CIRCUITS WITH SURGE PROTECTION AND (2) DUPLEX RECEPTACLES INSIDE THE CABINET (FEED FROM PRESS BOX PANEL). INCLUDE HORIZONTAL CABLE MANAGEMENT, FIBER LIU, AND FAN KIT AS REQUIRED BY HEAT LOAD. COORDINATE EXACT LOCATION, ELEVATION, AND SWING CLEARANCES WITH ENGINEER AND OWNER PRIOR TO ROUGH-IN.
4. PROVIDE ONE (1) 19-INCH WALL-MOUNT SWING-OUT AUDIO EQUIPMENT CABINET, 22U MINIMUM, 24-INCH DEPTH, WITH FRONT/REAR RAILS, PERFORATED LOCKING FRONT DOOR, VENTED SIDES, AND REAR HINGE FOR SERVICE ACCESS. CABINET STATIC LOAD RATING ≥ 300 LB (VERIFY EQUIPMENT WEIGHT + 25% FUTURE). MOUNT TO UNISTRUT BACKING; USE ALL MANUFACTURER MOUNTING HOLES. WHERE LOADED WEIGHT OR WALL STRUCTURE REQUIRES, PROVIDE A FLOOR SUPPORT LEDGE/LEG KIT UNDER CABINET.
   1. POWER: PROVIDE CIRCUITS AS REQUIRED AND SHOWN ON AUDIO RISER DIAGRAM (SHEET E611). INCLUDE SURGE PROTECTION. INSTALL RACK POWER SEQUENCER; PROGRAM AMPLIFIERS LAST ON / FIRST OFF. PROVIDE VERTICAL PDUS BOTH SIDES.
   2. INCLUDE A THERMOSTAT-CONTROLLED FAN KIT (MIN. 200 – 400 CFM) IF CALCULATED CABINET HEAT LOAD EXCEEDS 200 W OR IF CABINET TEMPERATURE EXCEEDS ROOM TEMPERATURE BY MORE THAN 10 °F DURING COMMISSIONING. PROVIDE PERFORATED DOOR/PANELS AND MAINTAIN CLEAR AIR PATHS. FEED FAN KIT FROM PRESS BOX ELECTRICAL PANEL.
   3. GROUNDING/BONDING: BOND RACK TO EQUIPMENT GROUNDING CONDUCTOR; PROVIDE GROUND BUS/STRAP INSIDE CABINET. COORDINATE SINGLE-POINT AUDIO GROUND REFERENCE PER MANUFACTURER.
   4. COORDINATION/CLEARANCES: VERIFY SWING CLEARANCE AND SERVICE ACCESS; TARGET 36" FRONT AND 12" – 18" SIDE WORKING CLEARANCE WHERE ARCHITECTURALLY FEASIBLE. COORDINATE MOUNTING HEIGHT (~CENTERLINE 60" A.F.F.), DOOR SWING, AND ANY ADJACENT MILLWORK/GLAZING. CONFIRM EQUIPMENT U-COUNTS, DEPTHS, WEIGHTS, VOLTAGE, AND HEAT LOAD PRIOR TO ROUGH-IN.
   5. LABELING/COMMISSIONING: PROVIDE PERMANENT MACHINE-PRINTED LABELS FOR RACK, CIRCUITS, PATCH POINTS, AND DEVICES; SUBMIT LAYOUT (U-MAP), POWER SCHEDULE, AND AIRFLOW PLAN WITH SHOP DRAWINGS. RESERVE MIN. 20% FREE U-SPACE FOR FUTURE EXPANSION.
5. WIFI DATA OUTLET (PRESS BOX FRONT): MOUNT WEATHERPROOF DATA OUTLET ON THE EXTERIOR FRONT FACE ABOVE WINDOWS; LOCATION/ELEVATION AS DIRECTED BY ENGINEER AND OWNER PRIOR TO ROUGH-IN. PROVIDE NEMA 4X, UV-RATED BOX WITH GASKETED IN-USE COVER AND DUST-CAPPED RJ45 JACK(S); USE STAINLESS HARDWARE AND PROVIDE DRIP LOOP. ROUTE CONDUIT WITHIN WALL CAVITY; PROVIDE FACTORY-SLEEVED/GASKETED PENETRATIONS AND FLASHING THROUGH METAL PANEL/WEATHER BARRIER – NO FIELD-CAULK-ONLY OPENINGS; COORDINATE WITH PRESS BOX MANUFACTURER TO MAINTAIN WARRANTY. BOND BOX AND ANY METALLIC RACEWAY TO EQUIPMENT GROUND PER NEC; MAINTAIN REQUIRED CLEARANCES FROM OPERABLE WINDOW HARDWARE/TRIM. PROVIDE OUTDOOR-RATED, POE-COMPATIBLE ETHERNET SURGE PROTECTOR AT THE OUTLET OR JUST INSIDE THE PENETRATION; BOND SURGE DEVICE PER MANUFACTURER TO THE SAME GROUNDING POINT. ROUTE CAT6 IN CONTINUOUS RACEWAY (NO EXPOSED CABLE, NO SPLICES) BACK TO THE PRESS BOX TELECOM CABINET; LABEL BOTH ENDS AND TEST/CERTIFY CAT6 PERMANENT LINK PERFORMANCE. WIFI ACCESS POINT OR ROUTER EQUIPMENT BY OWNER.
6. SPEAKER BANK-A3 SHALL BE MOUNTED ATOP THE PRESS BOX IN RIGHT/CENTER/LEFT POSITIONS. MOUNT ON ENGINEER-APPROVED BRACKETS WITH VIBRATION ISOLATION; ANCHOR TO STRUCTURE. COORDINATE HEIGHT/LOCATION WITH ARCHITECT/ROOFING TO MAINTAIN WARRANTY. ROUTE CABLING WITHIN WALL/ROOF CAVITY; PROVIDE SLEEVED, GASKETED, AND SEALED PENETRATIONS – NO FIELD-CAULK-ONLY OPENINGS. USE HOT-DIP GALVANIZED OR ZINC-PLATED STEEL (NO STAINLESS REQUIRED) HARDWARE; WEATHERPROOF ALL EXPOSED CONNECTIONS; BOND/GROUND PER NEC. AIM/TILT PER SHEET E611.
7. AV BLUETOOTH DEVICE LOCATION. SEE SHEET E611 FOR DETAILS.

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SCALE: AS SHOWN
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ELECTRICAL SPECIAL SYSTEMS PLAN
PRESS BOX - VHS SOFTBALL

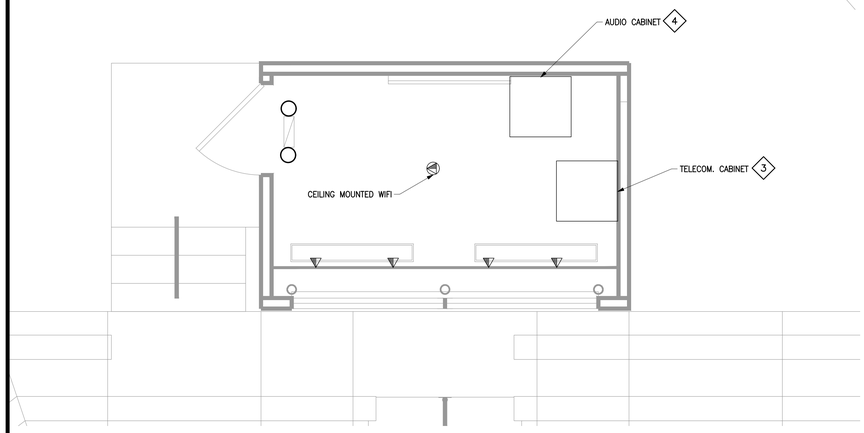
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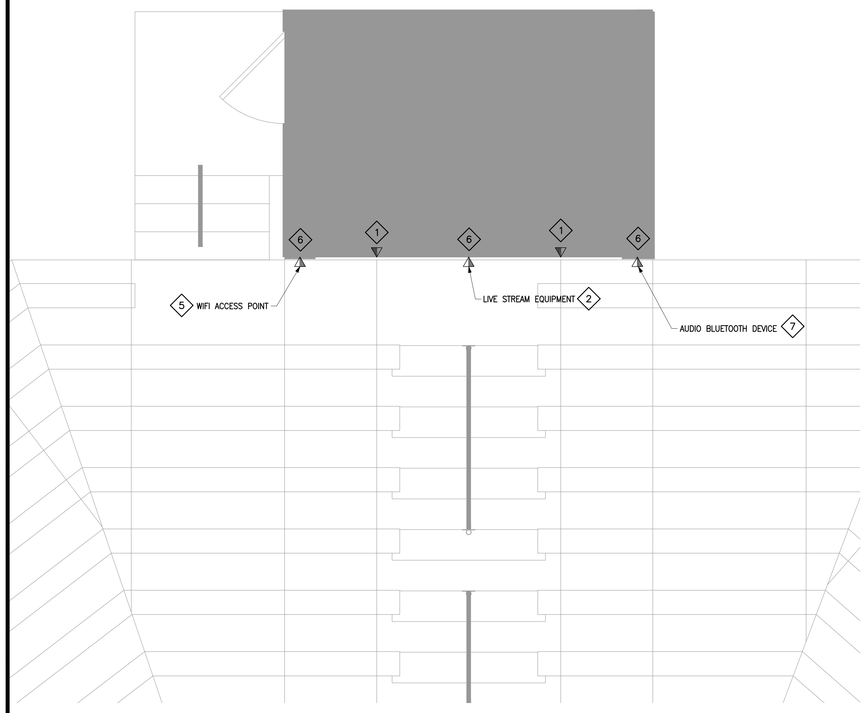
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1 ELECTRICAL SPECIAL SYSTEMS PLAN - WCHS SOFTBALL PRESS BOX - FLOOR PLAN
SCALE: 1/2" = 1'-0"



2 ELECTRICAL SPECIAL SYSTEMS PLAN - WCHS SOFTBALL PRESS BOX - ROOF PLAN
SCALE: 1/2" = 1'-0"

DRAWING E143 NOTES

1. **TELECOMMUNICATION CABLING:**
   - 1.1. CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) CAT6 PLENUM-RATED CABLES, BLUE JACKET, FROM EACH DATA OUTLET BACK TO THE TELECOMMUNICATIONS CABINET IN PRESS BOX.
   - 1.2. TERMINATE ALL CABLES ON RACK-MOUNTED PATCH PANELS IN THE TELECOMMUNICATIONS CABINET IN THE PRESS BOX. PROVIDE LABELING SCHEME COORDINATED WITH THE OWNER/ENGINEER.
   - 1.3. CABLING PATHWAYS:
     - 1.3.1. IN INACCESSIBLE CEILINGS OR WHERE EXPOSED, ROUTE CABLE IN CONDUIT.
     - 1.3.2. IN ACCESSIBLE CEILINGS, CABLE MAY BE SUPPORTED ON J-HOOKS (SPACED AT ≤ 5FT AND SIZED FOR ≤ 60% FILL).
     - 1.3.3. ALL CABLING SHALL COMPLY WITH TIA/EIA-568 STANDARDS, WITH MAXIMUM PERMANENT LENGTH OF 90 METERS (295 FT) FROM PATCH PANEL TO OUTLET.
2. **SECURITY CAMERA CABLING AND JUNCTION BOXES.**
   - 2.1. ALL JUNCTION BOXES LABELED "C" ARE DESIGNATED FOR SECURITY CAMERAS. PROVIDE A PATHWAY FROM EACH CAMERA JUNCTION BOX BACK TO THE TELECOMMUNICATIONS CABINET IN THE PRESS BOX.
   - 2.2. PULL TWO (2) CAT6 PLENUM-RATED CABLES, GREEN JACKET, TO EACH CAMERA LOCATION. TERMINATE ALL CABLES ON RACK-MOUNTED PATCH PANELS; COORDINATE LABELING SCHEME WITH OWNER/ENGINEER.
   - 2.3. MOUNT CAMERA JUNCTION BOXES FLUSH WITH OR JUST BELOW THE CEILING AS REQUIRED BY DEVICE TYPE. COORDINATE EXACT LOCATIONS AND ORIENTATIONS WITH OWNER/ENGINEER PRIOR TO ROUGH-IN.
   - 2.4. FOR EXTERIOR CAMERAS, COORDINATE MOUNTING HEIGHTS (TYPICALLY 12'-16' AFG) WITH THE ENGINEER. MOUNT TO FACE OF GRANDSTAND. PROVIDE NEMA 4 RATED BOXES AND FITTINGS SUITABLE FOR THE ENVIRONMENT.
   - 2.5. CABLING PATHWAYS: IN ACCESSIBLE CEILINGS, CONTRACTOR MAY ROUTE CABLE ON J-HOOKS (SPACED AT ≤ 5FT AND SIZED FOR ≤ 60% FILL). IN INACCESSIBLE CEILINGS OR WHERE EXPOSED, PROVIDE 3/4" CONDUIT.
   - 2.6. ALL CAMERA CABLING SHALL COMPLY WITH TIA/EIA-568 STANDARDS, WITH A MAXIMUM PERMANENT LENGTH OF 90 METERS (295FT) FROM PATCH PANEL TO DEVICE.
3. CONTRACTOR SHALL PROVIDE AND LEAVE IN PLACE A CONTINUOUS NYLON/POLYESTER PULL STRING (MINIMUM 200 LB TENSILE STRENGTH) IN ALL EMPTY CONDUITS AND RACEWAYS. PULL STRINGS SHALL BE TIED OFF AND LABELED AT BOTH ENDS FOR FUTURE USE.

DRAWING E143 SPECIFIC NOTES

1. ROOF DATA OUTLET (PIPE-BOOT MOUNT): PROVIDE ROOF-MOUNTED DATA OUTLET ON A FIXED GALVANIZED STANCHION (MIN. 1-1/2" RGS) INSTALLED THROUGH A LISTED ROOF PIPE BOOT; FLASH AND SEAL STRICTLY PER MANUFACTURER – NO FIELD-CAULKED OR PITCH-POCKET PENETRATIONS. SET OUTLET 12" A.F.R. (CENTERLINE) IN A NEMA 4X, UV-RATED WEATHERPROOF BOX WITH GASKETED IN-USE COVER AND DUST-CAPPED RJ45 JACK(S). SLEEVE CONDUIT THROUGH ROOF WITH RGS; PROVIDE A LISTED EXPANSION/DEFLECTION FITTING BELOW THE ROOF LINE. USE STAINLESS STEEL HARDWARE; BOND ALL METALLIC COMPONENTS TO THE EQUIPMENT GROUND. ROUTE CAT6 IN CONTINUOUS RACEWAY (NO ROOF-EXPOSED CABLE, NO SPLICES IN ROOF ASSEMBLY) BACK TO THE PRESS BOX TELECOM CABINET. SURGE SUPPRESSION: PROVIDE AN OUTDOOR-RATED ETHERNET SURGE PROTECTOR (PoE-COMPATIBLE WHERE APPLICABLE) AT THE ROOF OUTLET OR JUST INSIDE THE PENETRATION; BOND PER MANUFACTURER'S INSTRUCTIONS AND TERMINATE TO THE SAME GROUNDING POINT AS THE STANCHION. COORDINATE ALL WORK WITH THE PRESS BOX MANUFACTURER FOR FLASHING AND WARRANTY COMPLIANCE; LOCATE CLEAR OF DRAINS, SCUPPERS, AND WALK PATHS; PROVIDE A GUARD IF SUBJECT TO DAMAGE. CERTIFY CAT6 PERMANENT LINK PERFORMANCE.
2. LIVE-STREAM DATA OUTLET (PRESS BOX FRONT): MOUNT WEATHERPROOF DATA OUTLET ON THE EXTERIOR FRONT FACE ABOVE WINDOWS; LOCATION/ELEVATION AS DIRECTED BY ENGINEER AND OWNER PRIOR TO ROUGH-IN. PROVIDE NEMA 4X, UV-RATED BOX WITH GASKETED IN-USE COVER AND DUST-CAPPED RJ45 JACK(S); USE STAINLESS HARDWARE AND PROVIDE DRIP LOOP. ROUTE CONDUIT WITHIN WALL CAVITY; PROVIDE FACTORY-SLEEVED/GASKETED PENETRATIONS AND FLASHING THROUGH METAL PANEL/WEATHER BARRIER – NO FIELD-CAULK-ONLY OPENINGS; COORDINATE WITH PRESS BOX MANUFACTURER TO MAINTAIN WARRANTY. BOND BOX AND ANY METALLIC RACEWAY TO EQUIPMENT GROUND PER NEC; MAINTAIN REQUIRED CLEARANCES FROM OPERABLE WINDOW HARDWARE/TRIM AND CAMERA SIGHTLINES. PROVIDE OUTDOOR-RATED, POE-COMPATIBLE ETHERNET SURGE PROTECTOR AT THE OUTLET OR JUST INSIDE THE PENETRATION; BOND SURGE DEVICE PER MANUFACTURER TO THE SAME GROUNDING POINT. ROUTE CAT6 IN CONTINUOUS RACEWAY (NO EXPOSED CABLE, NO SPLICES) BACK TO THE PRESS BOX TELECOM CABINET; LABEL BOTH ENDS AND TEST/CERTIFY CAT6 PERMANENT LINK PERFORMANCE. LIVE-STREAM EQUIPMENT BY OWNER.
3. PROVIDE ONE (1) 19-INCH WALL-MOUNT SWING-OUT TELECOMMUNICATIONS CABINET, 18U, 24-INCH DEPTH, VENTED SIDES/DOOR WITH LOCK. MOUNT TO UNISTRUT BACKING; VERIFY WALL STRUCTURE SUPPORTS FULLY-LOADED WEIGHT. PROVIDE (2) DEDICATED 120V, 20A CIRCUITS WITH SURGE PROTECTION AND (2) DUPLEX RECEPTACLES INSIDE THE CABINET (FEED FROM PRESS BOX PANEL). INCLUDE HORIZONTAL CABLE MANAGEMENT, FIBER LIU, AND FAN KIT AS REQUIRED BY HEAT LOAD. COORDINATE EXACT LOCATION, ELEVATION, AND SWING CLEARANCES WITH ENGINEER AND OWNER PRIOR TO ROUGH-IN.
4. PROVIDE ONE (1) 19-INCH WALL-MOUNT SWING-OUT AUDIO EQUIPMENT CABINET, 22U MINIMUM, 24-INCH DEPTH, WITH FRONT/REAR RAILS, PERFORATED LOCKING FRONT DOOR, VENTED SIDES, AND REAR HINGE FOR SERVICE ACCESS. CABINET STATIC LOAD RATING ≥ 300 LB (VERIFY EQUIPMENT WEIGHT + 25% FUTURE). MOUNT TO UNISTRUT BACKING; USE ALL MANUFACTURER MOUNTING HOLES. WHERE LOADED WEIGHT OR WALL STRUCTURE REQUIRES, PROVIDE A FLOOR SUPPORT LEDGE/LEG KIT UNDER CABINET.
   1. POWER: PROVIDE CIRCUITS AS REQUIRED AND SHOWN ON AUDIO RISER DIAGRAM (SHEET E611). INCLUDE SURGE PROTECTION. INSTALL RACK POWER SEQUENCER; PROGRAM AMPLIFIERS LAST ON / FIRST OFF. PROVIDE VERTICAL PDUS BOTH SIDES.
   2. INCLUDE A THERMOSTAT-CONTROLLED FAN KIT (MIN. 200 – 400 CFM) IF CALCULATED CABINET HEAT LOAD EXCEEDS 200 W OR IF CABINET TEMPERATURE EXCEEDS ROOM TEMPERATURE BY MORE THAN 10 °F DURING COMMISSIONING. PROVIDE PERFORATED DOOR/PANELS AND MAINTAIN CLEAR AIR PATHS. FEED FAN KIT FROM PRESS BOX ELECTRICAL PANEL.
   3. GROUNDING/BONDING: BOND RACK TO EQUIPMENT GROUNDING CONDUCTOR; PROVIDE GROUND BUS/STRAP INSIDE CABINET. COORDINATE SINGLE-POINT AUDIO GROUND REFERENCE PER MANUFACTURER.
   4. COORDINATION/CLEARANCES: VERIFY SWING CLEARANCE AND SERVICE ACCESS; TARGET 36" FRONT AND 12" – 18" SIDE WORKING CLEARANCE WHERE ARCHITECTURALLY FEASIBLE. COORDINATE MOUNTING HEIGHT (~CENTERLINE 60" A.F.F.), DOOR SWING, AND ANY ADJACENT MILLWORK/GLAZING. CONFIRM EQUIPMENT U-COUNTS, DEPTHS, WEIGHTS, VOLTAGE, AND HEAT LOAD PRIOR TO ROUGH-IN.
   5. LABELING/COMMISSIONING: PROVIDE PERMANENT MACHINE-PRINTED LABELS FOR RACK, CIRCUITS, PATCH POINTS, AND DEVICES; SUBMIT LAYOUT (U-MAP), POWER SCHEDULE, AND AIRFLOW PLAN WITH SHOP DRAWINGS. RESERVE MIN. 20% FREE U-SPACE FOR FUTURE EXPANSION.
5. WIFI DATA OUTLET (PRESS BOX FRONT): MOUNT WEATHERPROOF DATA OUTLET ON THE EXTERIOR FRONT FACE ABOVE WINDOWS; LOCATION/ELEVATION AS DIRECTED BY ENGINEER AND OWNER PRIOR TO ROUGH-IN. PROVIDE NEMA 4X, UV-RATED BOX WITH GASKETED IN-USE COVER AND DUST-CAPPED RJ45 JACK(S); USE STAINLESS HARDWARE AND PROVIDE DRIP LOOP. ROUTE CONDUIT WITHIN WALL CAVITY; PROVIDE FACTORY-SLEEVED/GASKETED PENETRATIONS AND FLASHING THROUGH METAL PANEL/WEATHER BARRIER – NO FIELD-CAULK-ONLY OPENINGS; COORDINATE WITH PRESS BOX MANUFACTURER TO MAINTAIN WARRANTY. BOND BOX AND ANY METALLIC RACEWAY TO EQUIPMENT GROUND PER NEC; MAINTAIN REQUIRED CLEARANCES FROM OPERABLE WINDOW HARDWARE/TRIM. PROVIDE OUTDOOR-RATED, POE-COMPATIBLE ETHERNET SURGE PROTECTOR AT THE OUTLET OR JUST INSIDE THE PENETRATION; BOND SURGE DEVICE PER MANUFACTURER TO THE SAME GROUNDING POINT. ROUTE CAT6 IN CONTINUOUS RACEWAY (NO EXPOSED CABLE, NO SPLICES) BACK TO THE PRESS BOX TELECOM CABINET; LABEL BOTH ENDS AND TEST/CERTIFY CAT6 PERMANENT LINK PERFORMANCE. WIFI ACCESS POINT OR ROUTER EQUIPMENT BY OWNER.
6. SPEAKER BANK-A3 SHALL BE MOUNTED ATOP THE PRESS BOX IN RIGHT/CENTER/LEFT POSITIONS. MOUNT ON ENGINEER-APPROVED BRACKETS WITH VIBRATION ISOLATION; ANCHOR TO STRUCTURE. COORDINATE HEIGHT/LOCATION WITH ARCHITECT/ROOFING TO MAINTAIN WARRANTY. ROUTE CABLING WITHIN WALL/ROOF CAVITY; PROVIDE SLEEVED, GASKETED, AND SEALED PENETRATIONS – NO FIELD-CAULK-ONLY OPENINGS. USE HOT-DIP GALVANIZED OR ZINC-PLATED STEEL (NO STAINLESS REQUIRED) HARDWARE; WEATHERPROOF ALL EXPOSED CONNECTIONS; BOND/GROUND PER NEC. AIM/TILT PER SHEET E611.
7. AV BLUETOOTH DEVICE LOCATION. SEE SHEET E611 FOR DETAILS.

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
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1000 MS-27, Vicksburg, MS 39180

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ELECTRICAL SPECIAL SYSTEMS PLAN
PRESS BOX - WCHS SOFTBALL

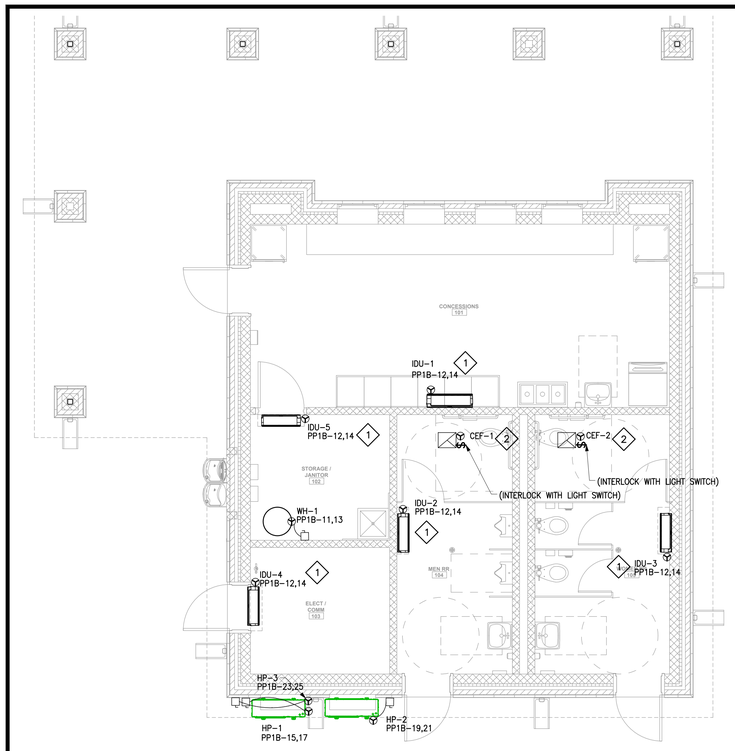
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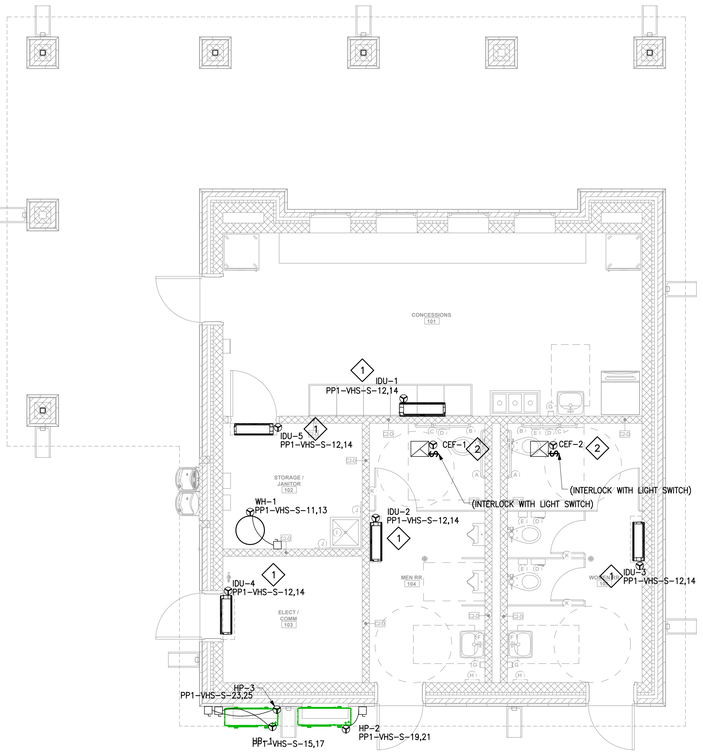
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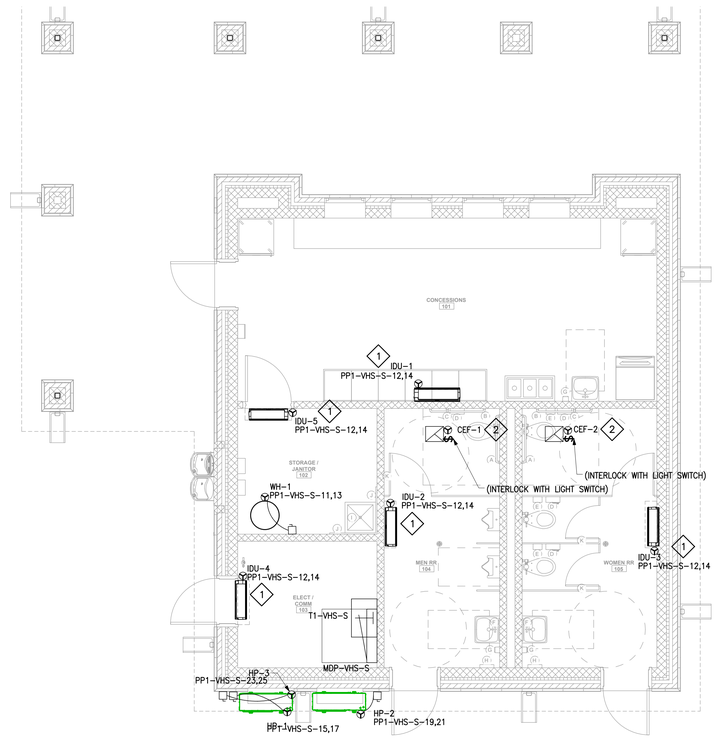
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1 MECHANICAL POWER PLAN - VHS BASEBALL CONCESSION STAND
SCALE: 1/4" = 1'-0"



2 MECHANICAL POWER PLAN - VHS SOFTBALL CONCESSION STAND
SCALE: 1/4" = 1'-0"



3 MECHANICAL POWER PLAN - WCHS SOFTBALL CONCESSION STAND
SCALE: 1/4" = 1'-0"

DRAWING E151 NOTES

1. ALL SAFETY SWITCHES SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE EXACT REQUIREMENTS AND RATINGS WITH THE EQUIPMENT MANUFACTURER.
2. COORDINATE ALL WIRING REQUIREMENTS WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
3. SAFETY SWITCHES SHALL BE HEAVY-DUTY TYPE; NEMA 1 FOR INTERIOR APPLICATIONS AND NEMA 3R FOR EXTERIOR APPLICATIONS.
4. PROVIDE AND INSTALL A DISCONNECTING MEANS WITHIN SIGHT OF ALL MECHANICAL EQUIPMENT, IN ACCORDANCE WITH NEC 430.102 (MOTORS) AND MECH 440.14 (HVAC EQUIPMENT).
5. PROVIDE BRANCH CIRCUIT AND FEEDER CONDUCTORS SIZED TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3% AT THE FARTHEST CONNECTED LOAD, AND 5% TOTAL FOR FEEDER PLUS BRANCH CIRCUIT.
6. COORDINATE POWER AND CONTROL CONDUIT ENTRY LOCATIONS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION TO AVOID CONFLICTS WITH FACTORY INSTALLED COMPONENTS.
7. PROVIDE LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC) FOR FINAL CONNECTIONS TO VIBRATING MECHANICAL EQUIPMENT (E.G., PUMPS, FANS, AND COMPRESSORS).
8. VERIFY ALL MOTOR AND EQUIPMENT NAMEPLATE DATA (VOLTAGE, FULL LOAD AMPS, HORSEPOWER, SHORT-CIRCUIT RATING) PRIOR TO INSTALLATION OF FEEDERS, OVERCURRENT PROTECTION DEVICES, AND DISCONNECTS. NOTIFY ENGINEER OF DISCREPANCIES.
9. PROVIDE SAFETY SWITCHES WITH AN INTERRUPTING RATING EQUAL TO OR GREATER THAN THE AVAILABLE FAULT CURRENT AT THEIR LINE TERMINALS. WHERE A NON-FUSIBLE SAFETY SWITCH DOES NOT HAVE ADEQUATE AIC RATING, FURNISH AND INSTALL FUSIBLE SAFETY SWITCHES WITH PROPERLY SIZED CURRENT-LIMITING FUSES (UL CLASS J OR RK1) TO ACHIEVE THE REQUIRED RATING. COORDINATE FUSE TYPE AND SIZING WITH THE PROTECTIVE DEVICE STUDY AND THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

DRAWING E151 SPECIFIC NOTES

1 **FAN COIL UNIT ISOLATION SWITCH:** PROVIDE A CEILING-MOUNTED MOTOR-RATED FAN COIL ISOLATION SWITCH ADJACENT TO EACH FAN COIL UNIT. SWITCH SHALL BE INSTALLED FLUSH WITH THE FINISHED CEILING SURFACE AND SHALL BE READILY ACCESSIBLE AND WITHIN SIGHT OF THE EQUIPMENT. COORDINATE EXACT LOCATION AND FACEPLATE COLOR WITH ARCHITECTURAL FINISHES TO MINIMIZE VISUAL IMPACT. LABEL SWITCH COVER PLATE "FAN COIL DISCONNECT".

2 **EXHAUST FAN ISOLATION SWITCH:** CEILING-MOUNTED EXHAUST FAN IS FED FROM THE SAME BRANCH CIRCUIT AS THE ROOM LIGHTING AND CONTROLLED BY THE ASSOCIATED WALL SWITCH. THE EXHAUST FAN IS NOT LOCATED WITHIN SIGHT OF THE SWITCH. PROVIDE A CEILING-MOUNTED MOTOR-RATED EXHAUST FAN ISOLATION SWITCH ADJACENT TO EACH EXHAUST FAN. SWITCH SHALL BE INSTALLED FLUSH WITH THE FINISHED CEILING SURFACE AND SHALL BE READILY ACCESSIBLE AND WITHIN SIGHT OF THE EQUIPMENT. COORDINATE EXACT LOCATION AND FACEPLATE COLOR WITH ARCHITECTURAL FINISHES TO MINIMIZE VISUAL IMPACT. LABEL SWITCH COVER PLATE "EXHAUST FAN DISCONNECT".

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

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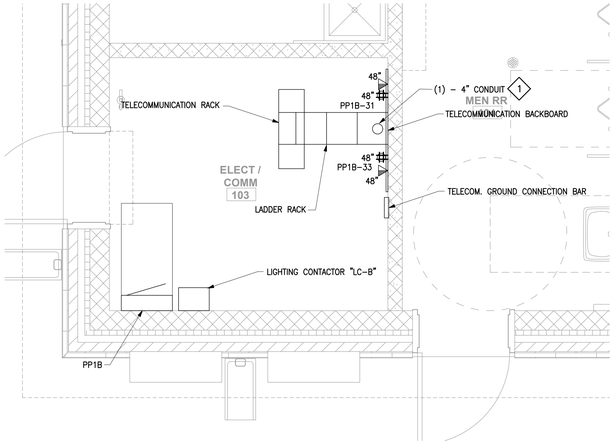
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MECHANICAL POWER PLANS - CONCESSION STANDS

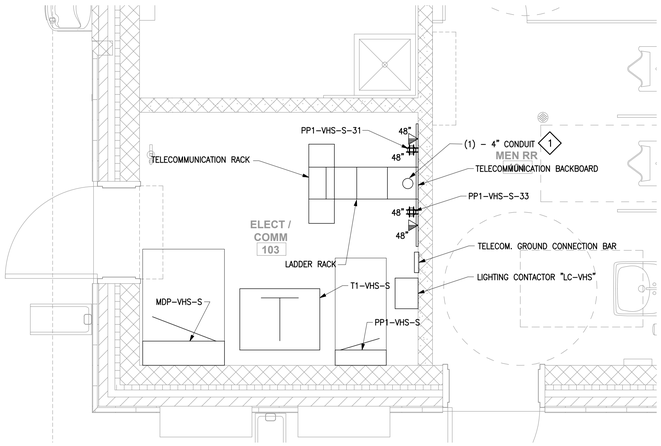
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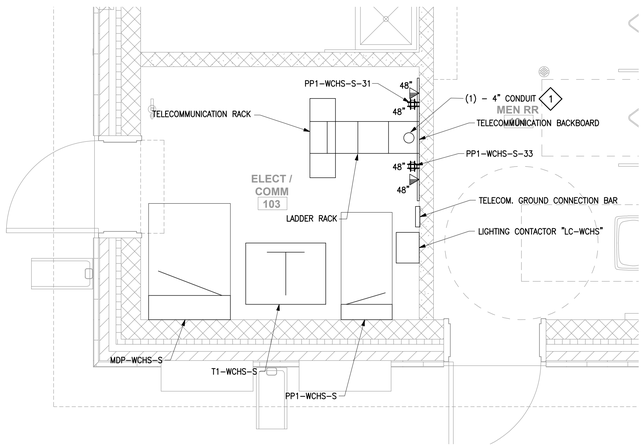
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1 ENLARGED ELECTRICAL AND TELECOM ROOM - VHS BASEBALL CONCESSIONS
SCALE: 1/2" = 1'-0"



2 ENLARGED ELECTRICAL AND TELECOM ROOM - VHS SOFTBALL CONCESSIONS
SCALE: 1/2" = 1'-0"



3 ENLARGED ELECTRICAL AND TELECOM ROOM - WCHS SOFTBALL CONCESSIONS
SCALE: 1/2" = 1'-0"

DRAWING E201 NOTES

1. MAINTAIN WORKING CLEARANCES FOR ALL ELECTRICAL EQUIPMENT PER NEC 110.26. PROVIDE DEDICATED ELECTRICAL EQUIPMENT SPACE PER NEC 110.32; THE WIDTH AND DEPTH OF THE EQUIPMENT FOOTPRINT EXTENDING FROM THE FLOOR TO THE STRUCTURAL CEILING OR 6FT ABOVE EQUIPMENT (WHICHEVER IS LOWER) SHALL BE KEPT FREE OF PIPING, DUCTWORK, AND FOREIGN SYSTEMS. WHERE SPRINKLERS ARE PRESENT, PROVIDE DRIP SHIELDS; NO SPRINKLER PIPING OR HEADS IN THE DEDICATED SPACE.
2. NO DUCTWORK, PIPING, CABLE TRAY, OR EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE ROUTED ABOVE PANELBOARDS, SWITCHBOARDS, SWITCHGEAR, TRANSFORMERS, OR SIMILAR ELECTRICAL EQUIPMENT WITHIN THE DEDICATED SPACE DESCRIBED ABOVE. MAINTAIN CLEAR WORKING ACCESS IN FRONT OF TELECOMMUNICATIONS BACKBOARDS PER TIA PRACTICE.
3. FEED–THROUGH LUG PANELBOARDS ARE NOT PERMITTED. PROVIDE MAIN–LUGS–ONLY WITH PROPER DISTRIBUTION, OR FACTORY MAIN–BREAKER PANELBOARDS AS INDICATED.
4. WHERE CONDUIT EXCEEDS THE EQUIPMENT'S TOP/BOTTOM ENTRY CAPACITY OR WOULD VIOLATE BENDING SPACE, PROVIDE LISTED METAL WIREWAY SIZED AND INSTALLED PER NEC 376 (INCLUDE FILL, COVER, AND SUPPORT REQUIREMENTS). DO NOT USE WIREWAY TO CIRCUMVENT REQUIRED WIRE–BENDING SPACE AT TERMINALS (SEE NEC 312.6/408.3)
5. PROVIDE ARC–FLASH HAZARD WARNING LABELS ON ALL SWITCHBOARDS AND PANELBOARDS PER NEC 110.16(B) AND NFPA 70E. PERFORM SHORT–CIRCUIT, PROTECTIVE DEVICE COORDINATION, AND ARC–FLASH STUDIES PER SPECIFICATIONS. COORDINATE WITH THE ELECTRICAL UTILITY COMPANY TO OBTAIN AVAILABLE FAULT CURRENT DATA REQUIRED FOR THE STUDY AND LABELING.
6. BACK–FED MAIN BREAKERS IN BRANCH SPACES ARE NOT PERMITTED. PROVIDE EQUIPMENT WITH FACTORY MAIN DEVICE AS INDICATED.
7. REFER TO SHEET E671 FOR TELECOMMUNICATIONS/LOW–VOLTAGE RISER DIAGRAM AND COORDINATE TERMINATIONS AND PATHWAY CAPACITIES ACCORDINGLY.

8. IDF RACK:
- 8.1. PROVIDE ONE (1) 19", 2–POST, EIA–310 COMPLIANT OPEN RACK, FLOOR–MOUNTED AND ANCHORED TO SLAB.
- 8.2. RACK HEIGHT 42U. CHANNEL DEPTH: 10 IN.
- 8.3. SIZE RACK CAPACITY FOR ALL TELECOM AND CCTV TERMINATIONS SERVED BY THE IDF WITH 25% MINIMUM SPARE FOR FUTURE GROWTH.
- 8.4. PROVIDE HORIZONTAL CABLE MANAGERS BETWEEN PATCH PANELS AND SWITCHES AS REQUIRED.
- 8.5. PROVIDE FULL HEIGHT VERTICAL CABLE MANAGERS ON BOTH SIDES OF RACK.
- 8.6. MAINTAIN A MINIMUM OF 36" CLEAR WORKING SPACE AT THE FRONT OF RACK; MAINTAIN REAR CLEARANCE PER MANUFACTURER (TYPICAL ≥ 12") AND PROJECT REQUIREMENTS.

9. OVERHEAD LADDER RACK:
- 9.1. PROVIDE LADDER RACK (CABLE RUNWAY) WALL–MOUNTED AT TOP OF RACK, EXTENDING TO ROOM ENTRY POINTS AND SLEEVES.
- 9.2. PROVIDE VERTICAL DROP SECTIONS FROM LADDER RACK INTO RACK.
- 9.3. PROVIDE J–HOOKS OR CONDUIT FOR PATHWAYS FROM CORRIDORS TO LADDER RACK.

10. BACKBOARD:
- 10.1. PROVIDE AN 8' X 4' X 3/4" FIRE–RETARDANT PLYWOOD BACKBOARD, PAINTED WHITE.

11. GROUNDING/BONDING:
- 11.1. PROVIDE A COPPER GROUND CONNECTION BAR IN EACH IDF. BOND WITH #4/0 BARE COPPER BACK TO THE BUILDING GROUNDING ELECTRODE SYSTEM.
- 11.2. BOND ALL RACKS, LADDER RACK, BACKBOARDS, AND METAL ENCLOSURES TO THE GROUND BAR.

12. TERMINATIONS:
- 12.1. FIBER BACKBONE (MDF TO IDF): TERMINATE IN A RACK–MOUNTED LIU IN THE IDF; 50/125 µM MULTIMODE (OM3 OR OM4) WITH LC/UPC DUPLEX ADAPTERS; MAKE TERMINATIONS VIA A FUSION–SPLICED LC/UPC PIGTAILS (NO FIELD–POLISHED CONNECTORS); LABEL PER DIVISION 27; BOND LIU TO IDF GROUND BAR; PROVIDE A MINIMUM 10 FT SERVICE LOOP AND DUST CAPS; PROTECT CONDUIT ENTRY WITH BUSHINGS.
- 12.2. TELECOM (DATA) CABLING SHALL TERMINATE ON PATCH PANELS IN THE RACK AND BE PATCHED TO PoE SWITCHES. PROVIDE SURGE PROTECTION AT BUILDING ENTRY/IDF AS REQUIRED.
- 12.1. CCTV AND CABLING SHALL TERMINATE ON PATCH PANELS IN THE RACK AND PATCH TO PoE SWITCHES. PROVIDE SURGE PROTECTION AT BUILDING ENTRY/IDF AS REQUIRED.

13. TELECOM OUTLET:
- 13.1. PROVIDE (2) CAT6 TELECOM OUTLETS AT THE COMMUNICATION BACKBOARD FOR PROGRAMMING/SERVICE. TERMINATE ON PATCH PANEL. LABEL "COMMUNICATION BACKBOARD – DATA".

14. RACK POWER:
- 14.1. PROVIDE (2)–DEDICATED 20A, 120V CIRCUITS WITH QUAD RECEPTACLES MOUNTED ON THE RACK FOR CONNECTION OF OWNER–PROVIDED UPS AND NETWORK SWITCHES.
- 14.2. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL RACK–MOUNTED PDUs, SURGE PROTECTION, GROUNDING, AND POWER DISTRIBUTION DEVICES AS REQUIRED.
- 14.3. OWNER SHALL PROVIDE AND INSTALL NETWORK SWITCHES (INCLUDING PoE SWITCHES WHERE REQUIRED) AND UPS ONLY.

15. LABELING & AS–BUILTS:
- 15.1. MACHINE LABEL ALL PATCH PANELS, CABLES, OUTLETS, AND ENCLOSURES PER DIVISION 27 STANDARDS.
- 15.2. PROVIDE AS–BUILT DOCUMENTATION SHOWING DEVICE IDs, CABLE IDs, AND TERMINATION POINTS FOR TELECOM, AND CCTV.

16. COORDINATION:
- 16.1. COORDINATE ALL IDF LAYOUTS AND EQUIPMENT MOUNTING WITH THE SCHOOL DISTRICT IT PRIOR TO INSTALLATION.

17. TESTING & STANDARDS
- 17.1. INSTALL AND TEST PER TIA–568 (CABLING/TERMINATION), TIA–569 (PATHWAYS), AND TIA–606 (LABELING/ADMIN).
- 17.2. 100% CERTIFY CAT6 PERMANENT LINKS WITH LEVEL IIIE (OR BETTER) TESTER; SUBMIT DIGITAL REPORTS
- 17.3. FIBER: TEST WITH OLTS FOR END–TO–END LOSS AND OTDR FOR EVENT CHARACTERIZATION PER TIA–568.3–D; SUBMIT TRACES AND RESULTS.

DRAWING E201 SPECIFIC NOTES

1 PROVIDE ONE (1) 4–INCH SLEEVE (EMT OR APPROVED EQUAL) THROUGH THE GYPSUM CEILING FOR LV CABLE ROUTING. LOCATE AS DIRECTED BY ENGINEER. TERMINATE SLEEVE APPROXIMATELY 3 INCHES ABOVE AND 3 INCHES BELOW THE GYP. CEILING; PROVIDE LISTED INSULATED BUSHINGS AT BOTH ENDS AND AN ESCUTCHEON/TRIM RING AT THE EXPOSED SIDE. IF THE CEILING/ASSEMBLY IS RATED OR USED AS A SMOKE BARRIER, PROVIDE LISTED FIRESTOP/SMOKE SEAL AROUND THE SLEEVE PER UL SYSTEM AND CODE. SUPPORT SLEEVE PER CODE; MAINTAIN REQUIRED SEPARATION FROM POWER CIRCUITS. CAP/PLUG SLEEVE WHEN NOT IN USE. LABEL "LV CABLE PASS–THROUGH – 4 IN."

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VICKSBURG WARREN SCHOOL DISTRICT
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1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: KDB
CHECKED BY: KDB

ENLARGED ELECTRICAL ROOM & TELECOM. ROOMS

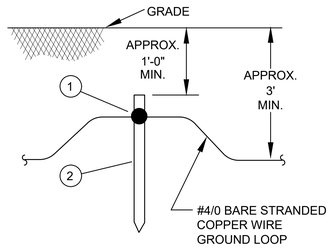
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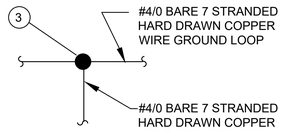
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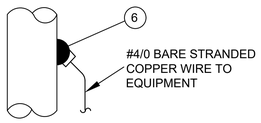
TYPICAL EXOTHERMIC WELD CABLE TO ROD CONNECTION

A



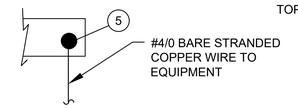
TYPICAL EXOTHERMIC WELD TEE CONNECTION

B



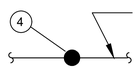
TYPICAL EXOTHERMIC WELD CABLE TO STEEL PIPE CONNECTION

C



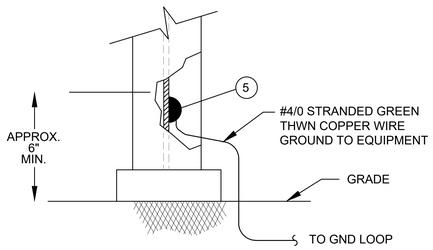
TYPICAL EXOTHERMIC WELD CABLE TO FLAT STEEL CONNECTION

D



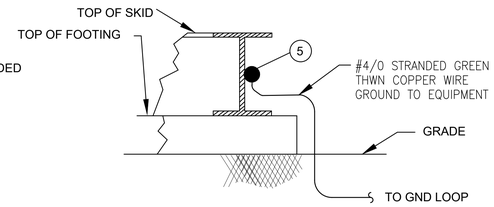
TYPICAL EXOTHERMIC WELD SPLICE CONNECTION

E



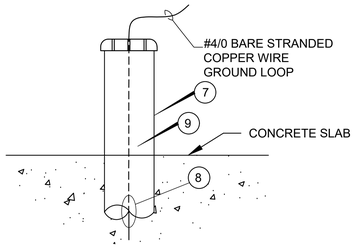
TYPICAL BUILDING STEEL OR PIPERACK COLUMN EXOTHERMIC GND CONNECTION

F



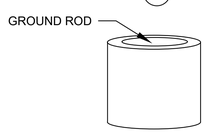
TYPICAL GROUND CONNECTION OF EQUIPMENT SKID

G



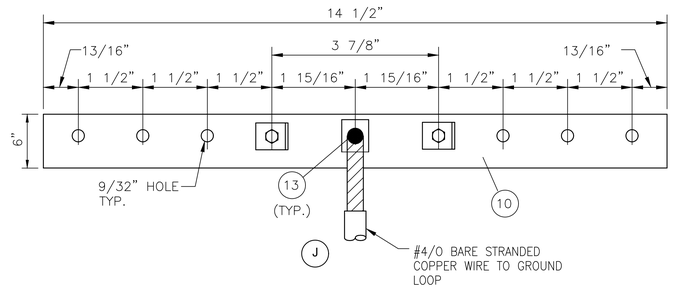
GROUND CONDUCTOR CONCRETE PENETRATION DETAIL

H



GROUND TEST WELL

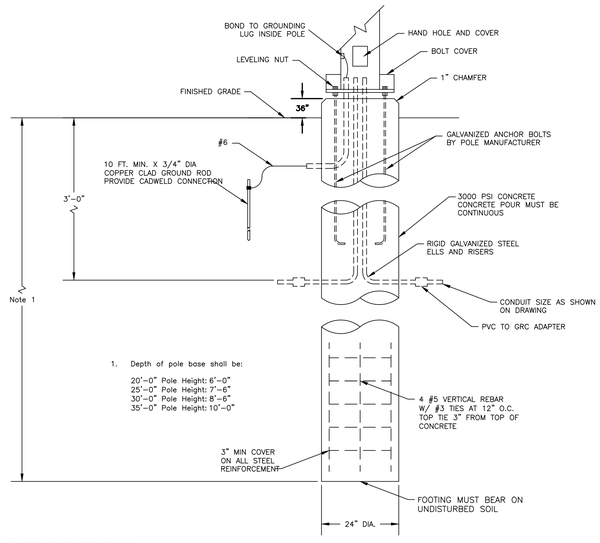
I



J

PART DESCRPTION

ITEM #	DESCRIPTION (ALL MANUFACTURERS ARE "OR EQUAL"
1	EXOTHERMIC WELD, CABLE/ROD CONNECTION, ROD SIZE 3/4", CABLE SIZE #4/0
2	COPPER CLAD GROUND ROD, 3/4" DIA., 10'-0" LONG.
3	EXOTHERMIC WELD, CABLE/CABLE TEE CONNECTION, CABLE SIZE #4/0 AND TAP RANGE #4 – #4/0
4	EXOTHERMIC WELD, CABLE SPLICE CONNECTION, CABLE SIZE #4/0
5	EXOTHERMIC WELD, CABLE/FLAT STEEL/COPPER CONNECTION, CABLE SIZE #4/0
6	EXOTHERMIC WELD, CABLE/STEEL PIPE CONNECTION, CABLE SIZE #4/0, PIPE SIZE RANGE 4"-6"
7	PVC SCH. 80 1" CONDUIT, LENGTH AS REQUIRED FOR SLAB THICKNESS WITH MALE CONNECTOR AND BUSHING.
8	WRAP SCOTCH MASTIC PAD ON CABLE WHERE CONDUCTOR CONTACTS CONCRETE.
9	FILL CONDUIT WITH RTV COMPOUND. (FILL TOP OF CONDUIT)
10	GROUND BUS BAR, HARD DRAWN COPPER 1/4" X 6" X 14 1/2" LONG
11	STAINLESS STEEL BOLT WITH NUT AND LOCK WASHER 3/8" X 1" LONG
12	STEEL ANGLE 1 1/2" X 1 1/2" X 1/4", 1" LONG, WITH COLD GALVANIZED
13	LUG AND BOLT #4/0 WIRE TO COPPER BUS



3 LIGHT POLE BASE DETAIL
SCALE: NTS

MP DESIGN GROUP
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Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

BRADLEY P. PATANO LICENSED PROFESSIONAL ENGINEER ENGINEER 17411 STATE OF MISSISSIPPI

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: KDB
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ELECTRICAL GENERAL DETAILS

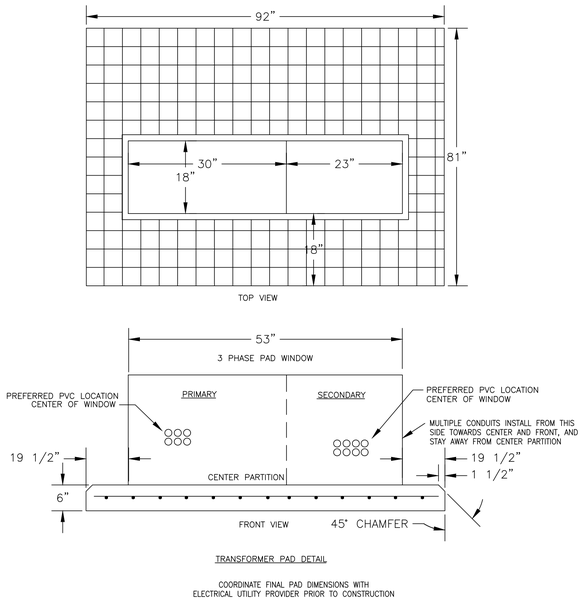
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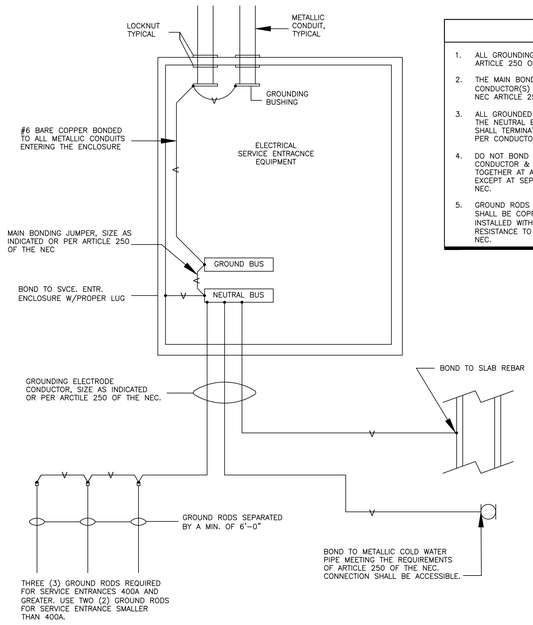
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1 UTILITY PAD MOUNT TRANSFORMER PAD DETAILS
SCALE: NTS



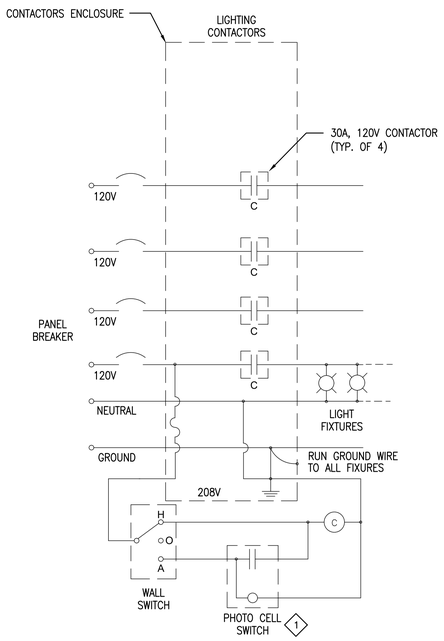
2 GROUNDING AND BONDING DETAIL
SCALE: NTS

SPECIFIC NOTES

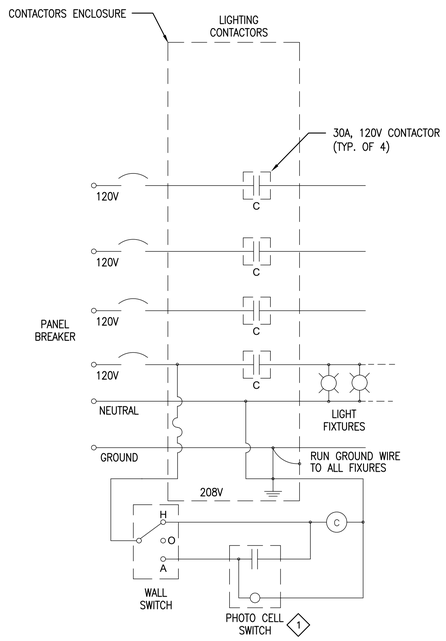
1. ALL GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH ARTICLE 250 OF THE NEC.
2. THE MAIN BONDING JUMPER & THE GROUNDING ELECTRODE CONDUCTOR(S) SHALL BE SIZED AS INDICATED AND/OR PER NEC ARTICLE 250.
3. ALL GROUNDED (NEUTRAL) CONDUCTORS SHALL TERMINATE ON THE NEUTRAL BUS & ALL EQUIPMENT GROUNDING CONDUCTOR SHALL TERMINATE ON THE GROUND BUS. ONE LUG OR TERMINAL PER CONDUCTOR.
4. DO NOT BOND OR CONNECT THE GROUNDED (NEUTRAL) CONDUCTOR & THE EQUIPMENT GROUNDING CONDUCTOR TOGETHER AT ANY OTHER POINT IN THE ELECTRICAL SYSTEM EXCEPT AT SEPARATELY DERIVED SYSTEMS AS DEFINED IN THE NEC.
5. GROUND RODS USED FOR GROUNDING ELECTRODE SYSTEMS SHALL BE COPPER CLAD, 3/4"x10' MIN. AND SHALL BE INSTALLED WITH TOP A MIN. OF 12" BELOW FINISHED GRADE. RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS PER NEC.

DRAWING E502 SPECIFIC NOTES

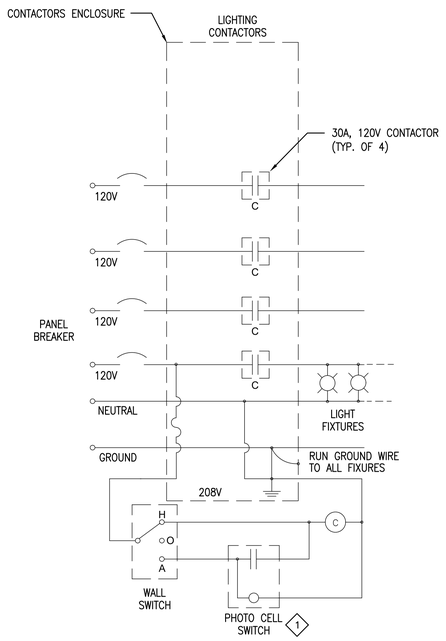
1. PHOTOCELL FOR LIGHTING CONTACTOR PANELS: PROVIDE A LOCAL PHOTOCELL FOR EACH LIGHTING CONTACTOR PANEL. MOUNT ON EXTERIOR WALL AT 12'-0" AFG., NORTH/NORTHWEST EXPOSURE WITH UNOBSTRUCTED SKY VIEW, AWAY FROM ARTIFICIAL LIGHT SOURCES. FIELD-COORDINATE EXACT LOCATION WITH ENGINEER PRIOR TO ROUGH-IN. SETPOINTS: ON AT 2 FC, OFF AT 5 FC (HYSTERESIS). PROVIDE LISTED WEATHERPROOF HOUSING AND SEALING. FURNISH PANEL BYPASS/TEST SWITCH AND LABEL CIRCUIT AND SENSOR LOCATION ON PANEL SCHEDULE.



3 LIGHTING CONTACTOR LC-B DETAIL - VHS BASEBALL CONCESSIONS
SCALE: NTS



4 LIGHTING CONTACTOR LC-VHS DETAIL - VHS SOFTBALL CONCESSIONS
SCALE: NTS



5 LIGHTING CONTACTOR LC-WCHS DETAIL - WCHS SOFTBALL CONCESSIONS
SCALE: NTS

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Biloxi, Mississippi 39530
P: 228.388.1950
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BRADLEY P. PATANO
LICENSED PROFESSIONAL ENGINEER
ENGINEER
17411
STATE OF MISSISSIPPI

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
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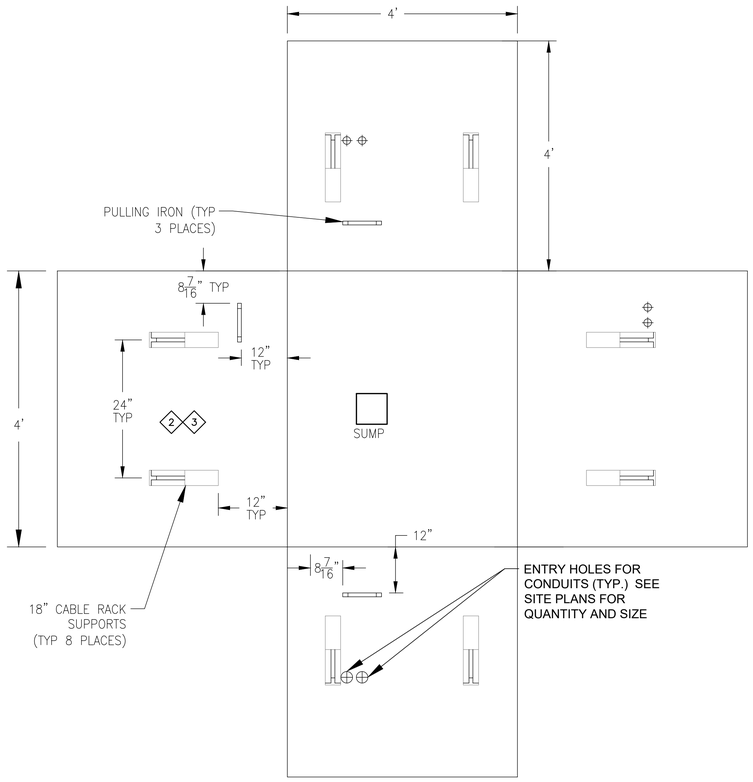
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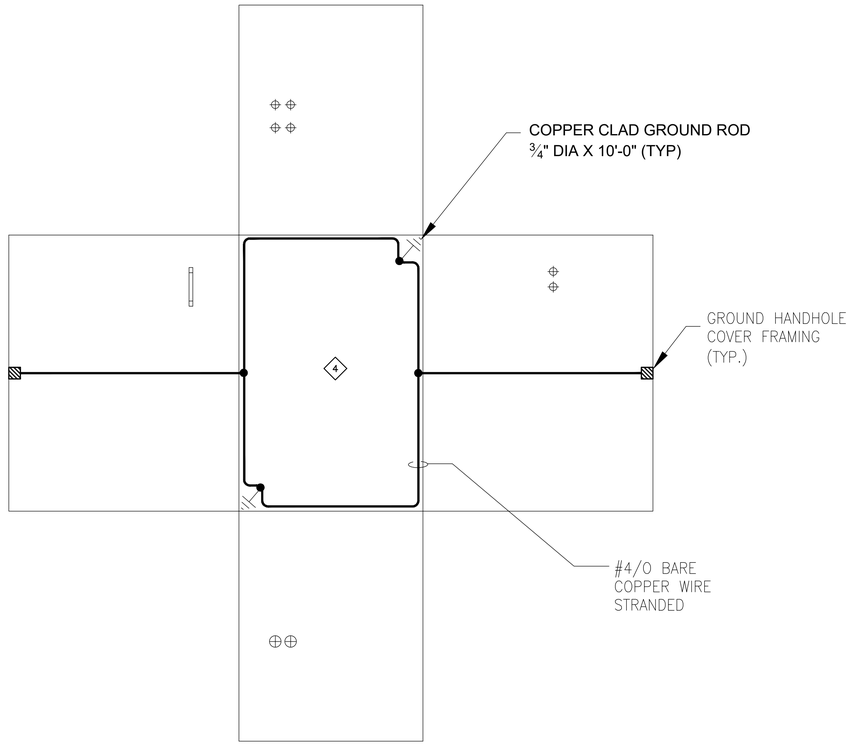
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1 TELECOMMUNICATION HAND HOLE DETAIL (TYPICAL)
SCALE: 3/4" = 1'



2 TELECOMMUNICATION HAND HOLE GROUNDING AND BONDING DETAIL (TYPICAL)
SCALE: 3/4" = 1'

DRAWING E503 NOTES

1. CONTRACTOR SHALL REFERENCE CIVIL SHEETS FOR HAND HOLE DIMENSIONS AND BUILD DETAILS.
2. CONTRACTOR SHALL PROVIDE DETAILED DIMENSION DRAWINGS OF HAND HOLE AS PART OF THE AS-BUILT PROCESS.

DRAWING E503 SPECIFIC NOTES

1. DETAILS ARE TYPICAL FOR ALL 4'X4'X4' TELECOMMUNICATION HAND HOLES. CONTRACTOR SHALL REFERENCE SITE PLAN FOR CONDUIT QUANTITY AND SIZE.
2. CONTRACTOR SHALL PROVIDE AND INSTALL EIGHT (8) RACK HOOKS FOR EACH HAND HOLE, 2 PER SIDE. INWESCO (10A3) 7-1/2 CABLE RACK HOOK OR EQUAL.
3. CONTRACTOR SHALL PROVIDE AND INSTALL EIGHT (8) UNDERGROUND CABLE RACKS FOR EACH HAND HOLE, 2 PER SIDE. INWESCO (10A11) (1-1/2"X31-5/8") OR EQUAL.
4. CONNECT (EXOTHERMIC WELD) TO #4/0 BARE COPPER CABLE ROUTED WITH CONDUITS.

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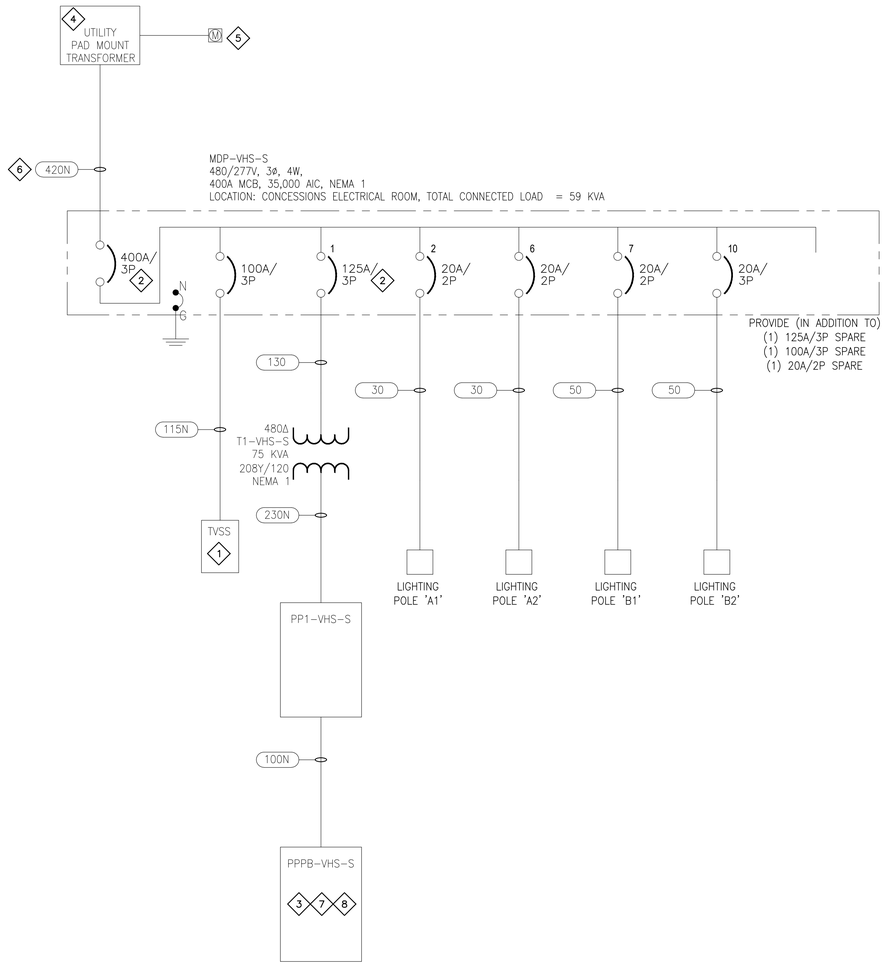
TELECOM. HAND HOLE DETAILS

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PANEL MDP-VHS-S LOAD SCHEDULE

						TOTAL CONNECTED KVA BY PHASE	16.5	17.8	17.2
						TOTAL CONNECTED AMPS BY PHASE	59.6	64.5	62.2

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	19.5	24.3	(125%)	RECEPTACLES	6.08	6.08	(50%>10)
LARGEST MOTOR	9.95	2.49	(25%)	KITCHEN EQUIPMENT	1.6	1.6	(100%)
MOTORS	18.4	18.4	(100%)	HEATING	5.99	5.99	(100%)
				TOTAL LOAD		58.9	
				BALANCED 3-PHASE LOAD		70.9 A	

PP1-VHS-S

ROOM CONCESSIONS ELECTRICAL ROOM
MOUNTING SURFACE
FED FROM T1-VHS-S
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 225
NEUTRAL 100%

AIC 22,000
MAIN BKR 225
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	B	C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	B	C
1	20/1	REFRIGERATOR (GFCI BREAKER)	0.8			2	20/1	RECEPTACLE	0.18		
3	20/1	RECEPTACLE		0.18		4	20/1	RECEPTACLE		0.18	
5	20/1	RECEPTACLE			0.18	6	20/1	RECEPTACLE			0.18
7	20/1	RECEPTACLE	0.72			8	20/1	REFRIGERATOR (GFCI BREAKER)	0.8		
9	20/1	WATER FOUNTAIN (GFCI BREAKER)		0.8		10	20/1	RECEPTACLE		0.36	
11	40/2	WH-1			3	12	20/2	IDU-1, IDU-2, IDU-3, IDU-4,			1
13	|		3			14	|	IDU-5	1		
15	60/2	HP-1		4.98		16	20/1	RECEPTACLE		0.18	
17	|				4.98	18	20/1	RECEPTACLE			0.18
19	30/2	HP-2	1.98			20	20/1	RECEPTACLE	0.18		
21	|			1.98		22	20/1	RECEPTACLE		0.18	
23	20/2	HP-3			1.25	24	20/1	RECEPTACLE			0.9
25	|		1.25			26	20/1	CEILING RECEPTACLE (GFCI BREAKER)	0.18		
27	20/2	ICE MACHINE (GFCI BREAKER)		0.75		28	20/1	LIGHTING		0.818	
29	|				0.75	30	20/1	LIGHTING			0.256
31	20/1	TELECOM. RECEPTACLE	0.6			32	20/1	LIGHTING	0.156		
33	20/1	TELECOM. RECEPTACLE		0.6		34	20/1	SPARE		0	
35	20/1	SPARE			0	36	20/1	SPARE			0
37	20/1	SPARE	0			38	20/1	SPARE	0		
39	20/1	SPARE		0		40	100/2	PANEL PPPB-VHS-S		0.28	
41	20/1	SPARE			0	42	|				0.36
43	20/1	SPARE	0			44	20/1	SPARE	0		
45	20/1	SPARE		0		46	20/1	SPARE		0	
47	20/1	SPARE			0	48	20/1	SPARE			0
49	20/1	SPARE	0			50	20/1	SPARE	0		
51	20/1	SPARE		0		52	20/1	SPARE		0	
53	20/1	SPARE			0	54	20/1	SPARE			0
55	20/1	SPARE	0			56	20/1	SPARE	0		
57	20/1	SPARE		0		58	20/1	SPARE		0	
59	20/1	SPARE			0	60	20/1	SPARE			0
61	20/1	SPARE	0			62	20/1	SPARE	0		
63	20/1	SPARE		0		64	20/1	SPARE		0	
65	20/1	SPARE			0	66	20/1	SPARE			0
67	20/1	SPARE	0			68	20/1	SPARE	0		
69	20/1	SPARE		0		70	20/1	SPARE		0	
71	20/1	SPARE			0	72	20/1	SPARE			0
								TOTAL CONNECTED KVA BY PHASE	10.8	11.3	13
								TOTAL CONNECTED AMPS BY PHASE	91.6	95.7	108

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	1.33	1.66	(125%)	RECEPTACLES	7.82	7.82	(50%>10)
LARGEST MOTOR	9.95	2.49	(25%)	KITCHEN EQUIPMENT	1.6	1.6	(100%)
MOTORS	18.4	18.4	(100%)	HEATING	5.99	5.99	(100%)
				TOTAL LOAD		38	
				BALANCED 3-PHASE LOAD		105 A	

DRAWING E601 NOTES

1. **ARC-FLASH STUDY & LABELS:** CONTRACTOR SHALL PROVIDE SHORT-CIRCUIT PROTECTIVE DEVICE COORDINATION AND ARC-FLASH STUDIES PER SPECIFICATIONS. FURNISH AND APPLY ARC-FLASH HAZARD LABELS TO ALL NEW ELECTRICAL EQUIPMENT SUBJECT TO EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED, IN ACCORDANCE WITH NFPA 70E (AND NEC 110.16(B) WHERE APPLICABLE). LABELS SHALL REFLECT AS-BUILT CONDITIONS AND BE IN PLACE PRIOR TO ENERGIZATION; UPDATE IF SYSTEM CHANGES OCCUR.

2. **ELECTRONIC TRIP SETTINGS:** CONTRACTOR SHALL SET ALL ELECTRONIC TRIP CIRCUIT BREAKERS IN ACCORDANCE WITH APPROVED PROTECTIVE DEVICE COORDINATION STUDY SETTING TABLE (LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND-FAULT WHERE PROVIDED). RECORD "AS-LEFT" SETTINGS ON THE SCHEDULE AND EQUIPMENT, AND SUBMIT TEST RESULTS.

3. **GROUNDING FOR DRY TYPE TRANSFORMER:**
   - 3.1. PROVIDE A MAIN BONDING JUMPER (MBJ) BETWEEN THE TRANSFORMER SECONDARY NEUTRAL BUS AND THE TRANSFORMER ENCLOSURE IN ACCORDANCE WITH NEC 250.30(A)(1) AND 250.28(D).
   - 3.2. INSTALL A GROUNDING ELECTRODE CONDUCTOR (GEC) FROM THE TRANSFORMER ENCLOSURE TO THE BUILDING GROUNDING ELECTRODE SYSTEM (VIA THE BONDED GROUND BAR IN THE ELECTRICAL ROOM OR LOCAL GROUND ROD).
   - 3.3. SIZE THE GEC IN ACCORDANCE WITH NEC 250.66. BASED ON THE TRANSFORMER SECONDARY PHASE CONDUCTORS.
   - 3.4. BOND METALLIC RACEWAYS AT BOTH ENDS.
   - 3.5. THE SECONDARY NEUTRAL SHALL BE ISOLATED FROM ALL EQUIPMENT GROUNDING CONDUCTORS EXCEPT AT THE MAIN BONDING JUMPER CONNECTION POINT.
   - 3.6. INSTALL PER NEC ARTICLE 250 AND NEC 450.10.

DRAWING E601 SPECIFIC NOTES

1. SURGE PROTECTIVE DEVICE (SPD): PROVIDE CURRENT TECHNOLOGY TRANSGUARD MODEL TG3-150-480-3Y-MN-B-M3-F-HPI OR APPROVED EQUAL; UL 1449 (4TH ED) TYPE 1, 480Y/277, 3ø, 4W+G, ALL MODES (L-L, L-N, L-G, N-G). MOUNT ADJACENT TO MDP AND CONNECT VIA DEDICATED BREAKER; LIMIT TOTAL LEAD LENGTH TO LESS THAN 18 IN. INTERNAL/PLUG-ON (IN-PANEL) SPDs NOT PERMITTED. PROVIDE LOCAL STATUS INDICATION AND REMOTE ALARM CONTACTS. INSTALL PER MANUFACTURER'S REQUIREMENTS. CONDUIT RUN FROM SPD TO MDP SHALL BE LESS THAN 10 FT.

2. BREAKER SHALL BE MOLDED-CASE WITH MICROPROCESSOR-BASED ELECTRONIC TRIP UNIT. PROVIDE ADJUSTABLE LONG-TIME AND SHORT-TIME; ADJUSTABLE INSTANTANEOUS. MINIMUM INTERRUPTING RATING SHALL BE GREATER THAN AVAILABLE FAULT CURRENT. SET/VERIFY TRIP SETTINGS PER THE PROTECTIVE DEVICE COORDINATION STUDY.

3. **SEPARATE BUILDING FEEDER GROUNDING:** PROVIDE INSULATED CU EQUIPMENT GROUNDING CONDUCTOR (SEE FEEDER TAG) FROM PP1-VSH-S TO PPPB-VHS-S. AT PPPB-VHS-S, BOND THE EQUIPMENT GROUNDING BUS TO THE ENCLOSURE AND CONNECT TO THE LOCAL GROUNDING ELECTRODE SYSTEM (BONDED GROUND BUS BAR IN ELECTRICAL ROOM) VIA A 4/0 CU GROUNDING ELECTRODE CONDUCTOR (GEC). NEUTRAL SHALL REMAIN ISOLATED FROM THE ENCLOSURE AND EQUIPMENT GROUNDING BUS. INSTALL AND BOND ALL METALLIC RACEWAYS AT BOTH ENDS PER NEC ARTICLE 250.

4. UTILITY PAD MOUNT TRANSFORMER: TO BE FURNISHED AND INSTALLED BY THE UTILITY COMPANY. UTILITY SHALL FURNISH, INSTALL, AND TERMINATE PRIMARY CONDUIT AND CONDUCTORS. CONTRACTOR SHALL FURNISH AND INSTALL SECONDARY CONDUIT AND CONDUCTORS FROM THE TRANSFORMER TO PANELBOARD MDP-VHS-S; UTILITY SHALL MAKE FINAL SECONDARY TERMINATIONS WITHIN THE TRANSFORMER. CURRENT TRANSFORMERS (CTs) FOR METERING SHALL BE INTEGRAL TO THE TRANSFORMER PER UTILITY STANDARDS. CONTRACTOR SHALL PROVIDE THE TRANSFORMER PAD, CONDUIT STUB-UPS, AND GROUNDING PER UTILITY STANDARD DETAILS AND COORDINATE LOCATION, CONDUIT SIZES/QUANTITIES, BEND RADII, AND REQUIRED CONDUCTOR TAIL LENGTHS WITH THE UTILITY. INCLUDE ALL UTILITY FEES/CHARGES IN BID; SEE ELECTRICAL UTILITY ALLOWANCE.

5. METERING CONDUIT: CTs ARE INTEGRAL TO THE PAD-MOUNT TRANSFORMER; NO SEPARATE CT CABINET REQUIRED. PROVIDE DEDICATED EMPTY CONDUIT FROM TRANSFORMER METERING COMPARTMENT TO THE METER SOCKET/PAN: SIZE/QUANTITY PER UTILITY STANDARD (TYP. 1-1/2" PVC. SCH. 80 UNLESS DIRECTED OTHERWISE). INCLUDE NYLON PULL STRING. NO J-BOXES OR CUSTOMER CONDUCTORS IN METERING CONDUIT. UTILITY SHALL FURNISH AND INSTALL METER AND METERING CONDUCTORS; CONTRACTOR SHALL FURNISH AND INSTALL METER SOCKET/PAN AND CONDUIT/TERMINATIONS. COORDINATE ROUTE, ENTRY HEIGHTS, AND SEALING WITH THE UTILITY PRIOR TO ROUGH-IN.

6. NO EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH THE SERVICE-ENTRANCE CONDUCTORS BETWEEN THE UTILITY PAD-MOUNT TRANSFORMER AND PANELBOARD MDP-VHS-S. BOND ALL METALLIC SERVICE RACEWAYS/FITTINGS PER NEC 250.92, PROVIDE THE MAIN BONDING JUMPER AT SWITCHBOARD MDP, AND INSTALL THE GROUNDING ELECTRODE CONDUCTOR(S) TO THE BUILDING GEC PER NEC 250.24/250.66. COORDINATE ANY SPECIFIC REQUIREMENTS WITH THE UTILITY.

7. PRESS BOX PANELBOARD SHALL BE FURNISHED AND INSTALLED BY THE PRESS BOX MANUFACTURER. ELECTRICAL CONTRACTOR SHALL COORDINATE FEEDER/BRANCH CIRCUIT TERMINATIONS, CONDUIT ENTRY LOCATIONS, LUG TYPES, VOLTAGE/AIC RATINGS, AND GROUND/NEUTRAL REQUIREMENTS WITH APPROVED PRESS BOX SHOP DRAWINGS PRIOR TO ROUGH-IN. PROVIDE SLEEVES/CONDUITS TO MATCH SHOP DRAWINGS AND VERIFY WORKING CLEARANCES AND MOUNTING ELEVATIONS.

8. SURGE PROTECTIVE DEVICE (SPD): PROVIDE CURRENT TECHNOLOGY TRANSGUARD MODEL TG3-080-208-3Y-MN-B-M3-F-HPI OR APPROVED EQUAL; UL 1449 (4TH ED) TYPE 1, 208Y/120, 3ø, 4W+G, ALL MODES (L-L, L-N, L-G, N-G). MOUNT ADJACENT TO PANEL AND CONNECT VIA DEDICATED BREAKER; LIMIT TOTAL LEAD LENGTH TO LESS THAN 18 IN. INTERNAL/PLUG-ON (IN-PANEL) SPDs NOT PERMITTED. PROVIDE LOCAL STATUS INDICATION AND REMOTE ALARM CONTACTS. INSTALL PER MANUFACTURER'S REQUIREMENTS. CONDUIT RUN FROM SPD TO PANEL SHALL BE LESS THAN 10 FT.

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: KDB
CHECKED BY: KDB

ELECTRICAL ONE-LINE DIAGRAM - VHS SOFTBALL

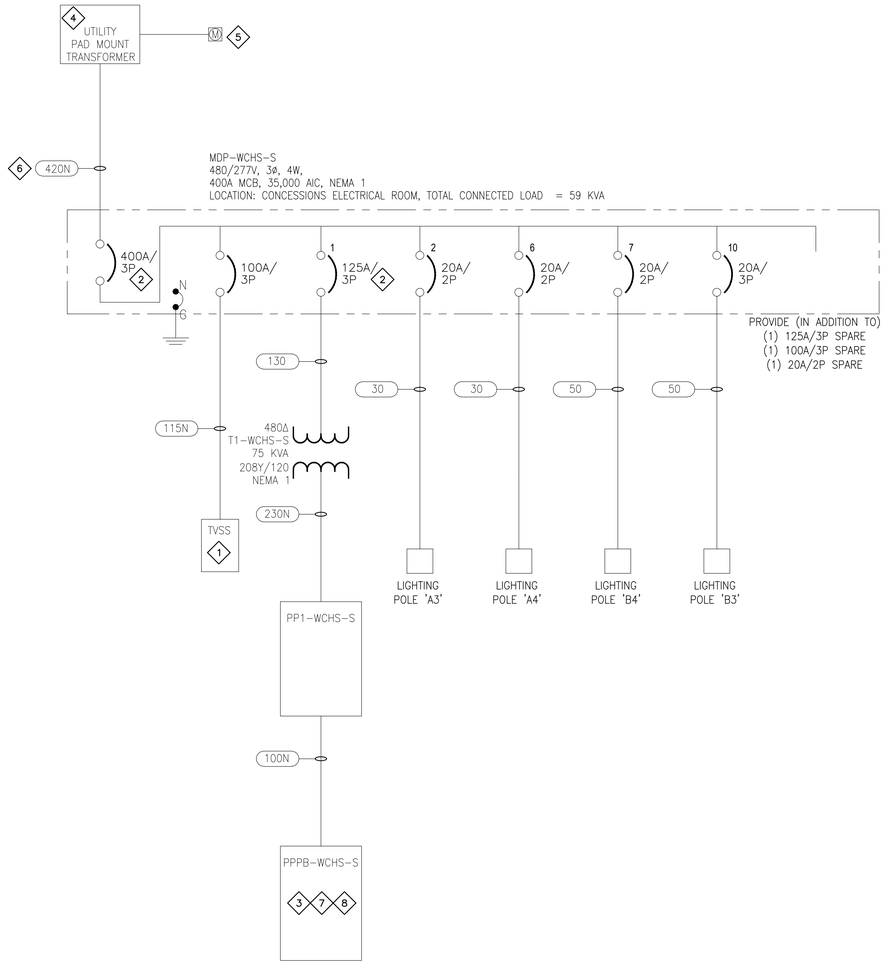
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E601

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m:\0323_vicksburg warren school district\0323.25.002 vwsd softball upgrade\06-electrical\02-production\01-production drawings\vwsd softball upgrade.dwg



PANEL MDP-WCHS-S LOAD SCHEDULE

						TOTAL CONNECTED KVA BY PHASE	16.5	15.1	14.6
						TOTAL CONNECTED AMPS BY PHASE	59.6	54.6	52.8
	CONN KVA	CALC KVA			CONN KVA	CALC KVA			
LIGHTING	19.4	24.2	(125%)	RECEPTACLES	6.88	6.88	(50%>10)		
LARGEST MOTOR	3.95	0.988	(25%)	KITCHEN EQUIPMENT	1.6	1.6	(100%)		
MOTORS	12.4	12.4	(100%)	HEATING	5.99	5.99	(100%)		
				TOTAL LOAD		52.1			
				BALANCED 3-PHASE LOAD		62.6 A			

PP1-WCHS-S

ROOM
MOUNTING SURFACE
FED FROM T1-WCHS-S
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 225
NEUTRAL 100%

AIC 22,000
MAIN BKR 225
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	B	C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	B	C
1	20/1	REFRIGERATOR (GFCI BREAKER)	0.8			2	20/1	RECEPTACLE	0.18		
3	20/1	RECEPTACLE		0.18		4	20/1	RECEPTACLE		0.18	
5	20/1	RECEPTACLE			0.18	6	20/1	RECEPTACLE			0.18
7	20/1	RECEPTACLE	0.72			8	20/1	REFRIGERATOR (GFCI BREAKER)	0.8		
9	20/1	WATER FOUNTAIN (GFCI BREAKER)		0.8		10	20/1	RECEPTACLE		0.36	
11	40/2	WH-1			3	12	20/2	IDU-1, IDU-2, IDU-3, IDU-4, IDU-5			1
13	|		3			14	|		1		
15	30/2	HP-1		1.98		16	20/1	RECEPTACLE		0.18	
17	|				1.98	18	20/1	RECEPTACLE			0.18
19	30/2	HP-2	1.98			20	20/1	RECEPTACLE	0.18		
21	|			1.98		22	20/1	RECEPTACLE		0.18	
23	20/2	HP-3			1.25	24	20/1	RECEPTACLE			0.9
25	|		1.25			26	20/1	CEILING RECEPTACLE (GFCI BREAKER)	0.18		
27	20/2	ICE MACHINE (GFCI BREAKER)		0.75		28	20/1	LIGHTING		0.818	
29	|				0.75	30	20/1	LIGHTING			0.256
31	20/1	TELECOM. RECEPTACLE	0.6			32	20/1	LIGHTING	0.156		
33	20/1	TELECOM. RECEPTACLE		0.6		34	20/1	SPARE		0	
35	20/1	SPARE			0	36	20/1	SPARE			0
37	20/1	SPARE	0			38	20/1	SPARE	0		
39	20/1	SPARE		0		40	100/2	PANEL PPPB-WCHS-S		0.76	
41	20/1	SPARE			0	42	|				0.58
43	20/1	SPARE	0			44	20/1	SPARE	0		
45	20/1	SPARE		0		46	20/1	SPARE		0	
47	20/1	SPARE			0	48	20/1	SPARE			0
49	20/1	SPARE	0			50	20/1	SPARE	0		
51	20/1	SPARE		0		52	20/1	SPARE		0	
53	20/1	SPARE			0	54	20/1	SPARE			0
55	20/1	SPARE	0			56	20/1	SPARE	0		
57	20/1	SPARE		0		58	20/1	SPARE		0	
59	20/1	SPARE			0	60	20/1	SPARE			0
61	20/1	SPARE	0			62	20/1	SPARE	0		
63	20/1	SPARE		0		64	20/1	SPARE		0	
65	20/1	SPARE			0	66	20/1	SPARE			0
67	20/1	SPARE	0			68	20/1	SPARE	0		
69	20/1	SPARE		0		70	20/1	SPARE		0	
71	20/1	SPARE			0	72	20/1	SPARE			0
								TOTAL CONNECTED KVA BY PHASE	10.8	8.76	10.2
								TOTAL CONNECTED AMPS BY PHASE	91.6	73.1	86.2

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	1.23	1.54	(125%)	RECEPTACLES	8.62	8.62	(50%>10)
LARGEST MOTOR	3.95	0.988	(25%)	KITCHEN EQUIPMENT	1.6	1.6	(100%)
MOTORS	12.4	12.4	(100%)	HEATING	5.99	5.99	(100%)
				TOTAL LOAD		31.1	
				BALANCED 3-PHASE LOAD		86.4 A	

DRAWING E602 NOTES

1. **ARC-FLASH STUDY & LABELS:** CONTRACTOR SHALL PROVIDE SHORT-CIRCUIT PROTECTIVE DEVICE COORDINATION AND ARC-FLASH STUDIES PER SPECIFICATIONS. FURNISH AND APPLY ARC-FLASH HAZARD LABELS TO ALL NEW ELECTRICAL EQUIPMENT SUBJECT TO EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED, IN ACCORDANCE WITH NFPA 70E (AND NEC 110.16(B) WHERE APPLICABLE). LABELS SHALL REFLECT AS-BUILT CONDITIONS AND BE IN PLACE PRIOR TO ENERGIZATION; UPDATE IF SYSTEM CHANGES OCCUR.
2. **ELECTRONIC TRIP SETTINGS:** CONTRACTOR SHALL SET ALL ELECTRONIC TRIP CIRCUIT BREAKERS IN ACCORDANCE WITH APPROVED PROTECTIVE DEVICE COORDINATION STUDY SETTING TABLE (LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND-FAULT WHERE PROVIDED). RECORD "AS-LEFT" SETTINGS ON THE SCHEDULE AND EQUIPMENT, AND SUBMIT TEST RESULTS.
3. **GROUNDING FOR DRY TYPE TRANSFORMER:**
   - 3.1. PROVIDE A MAIN BONDING JUMPER (MBJ) BETWEEN THE TRANSFORMER SECONDARY NEUTRAL BUS AND THE TRANSFORMER ENCLOSURE IN ACCORDANCE WITH NEC 250.30(A)(1) AND 250.28(D).
   - 3.2. INSTALL A GROUNDING ELECTRODE CONDUCTOR (GEC) FROM THE TRANSFORMER ENCLOSURE TO THE BUILDING GROUNDING ELECTRODE SYSTEM (VIA THE BONDED GROUND BAR IN THE ELECTRICAL ROOM OR LOCAL GROUND ROD).
   - 3.3. SIZE THE GEC IN ACCORDANCE WITH NEC 250.66. BASED ON THE TRANSFORMER SECONDARY PHASE CONDUCTORS.
   - 3.4. BOND METALLIC RACEWAYS AT BOTH ENDS.
   - 3.5. THE SECONDARY NEUTRAL SHALL BE ISOLATED FROM ALL EQUIPMENT GROUNDING CONDUCTORS EXCEPT AT THE MAIN BONDING JUMPER CONNECTION POINT.
   - 3.6. INSTALL PER NEC ARTICLE 250 AND NEC 450.10.

DRAWING E602 SPECIFIC NOTES

1. SURGE PROTECTIVE DEVICE (SPD): PROVIDE CURRENT TECHNOLOGY TRANSGUARD MODEL TG3-150-480-3Y-MN-B-M3-F-HPI OR APPROVED EQUAL; UL 1449 (4TH ED) TYPE 1, 480Y/277, 3ø, 4W+G, ALL MODES (L-L, L-N, L-G, N-G). MOUNT ADJACENT TO MDP AND CONNECT VIA DEDICATED BREAKER; LIMIT TOTAL LEAD LENGTH TO LESS THAN 18 IN. INTERNAL/PLUG-ON (IN-PANEL) SPDs NOT PERMITTED. PROVIDE LOCAL STATUS INDICATION AND REMOTE ALARM CONTACTS. INSTALL PER MANUFACTURER'S REQUIREMENTS. CONDUIT RUN FROM SPD TO MDP SHALL BE LESS THAN 10 FT.
2. BREAKER SHALL BE MOLDED-CASE WITH MICROPROCESSOR-BASED ELECTRONIC TRIP UNIT. PROVIDE ADJUSTABLE LONG-TIME AND SHORT-TIME; ADJUSTABLE INSTANTANEOUS. MINIMUM INTERRUPTING RATING SHALL BE GREATER THAN AVAILABLE FAULT CURRENT. SET/VERIFY TRIP SETTINGS PER THE PROTECTIVE DEVICE COORDINATION STUDY.
3. **SEPARATE BUILDING FEEDER GROUNDING:** PROVIDE INSULATED CU EQUIPMENT GROUNDING CONDUCTOR (SEE FEEDER TAG) FROM PP1-VSH-S TO PPPB-VHS-S. AT PPPB-VHS-S, BOND THE EQUIPMENT GROUNDING BUS TO THE ENCLOSURE AND CONNECT TO THE LOCAL GROUNDING ELECTRODE SYSTEM (BONDED GROUND BUS BAR IN ELECTRICAL ROOM) VIA A 4/0 CU GROUNDING ELECTRODE CONDUCTOR (GEC). NEUTRAL SHALL REMAIN ISOLATED FROM THE ENCLOSURE AND EQUIPMENT GROUNDING BUS. INSTALL AND BOND ALL METALLIC RACEWAYS AT BOTH ENDS PER NEC ARTICLE 250.
4. UTILITY PAD MOUNT TRANSFORMER: TO BE FURNISHED AND INSTALLED BY THE UTILITY COMPANY. UTILITY SHALL FURNISH, INSTALL, AND TERMINATE PRIMARY CONDUIT AND CONDUCTORS. CONTRACTOR SHALL FURNISH AND INSTALL SECONDARY CONDUIT AND CONDUCTORS FROM THE TRANSFORMER TO PANELBOARD MDP-VHS-S; UTILITY SHALL MAKE FINAL SECONDARY TERMINATIONS WITHIN THE TRANSFORMER. CURRENT TRANSFORMERS (CTs) FOR METERING SHALL BE INTEGRAL TO THE TRANSFORMER PER UTILITY STANDARDS. CONTRACTOR SHALL PROVIDE THE TRANSFORMER PAD, CONDUIT STUB-UPS, AND GROUNDING PER UTILITY STANDARD DETAILS AND COORDINATE LOCATION, CONDUIT SIZES/QUANTITIES, BEND RADII, AND REQUIRED CONDUCTOR TAIL LENGTHS WITH THE UTILITY. INCLUDE ALL UTILITY FEES/CHARGES IN BID; SEE ELECTRICAL UTILITY ALLOWANCE.
5. METERING CONDUIT: CTs ARE INTEGRAL TO THE PAD-MOUNT TRANSFORMER; NO SEPARATE CT CABINET REQUIRED. PROVIDE DEDICATED EMPTY CONDUIT FROM TRANSFORMER METERING COMPARTMENT TO THE METER SOCKET/PAN. SIZE/QUANTITY PER UTILITY STANDARD (TYP. 1-1/2" PVC. SCH. 80 UNLESS DIRECTED OTHERWISE). INCLUDE NYLON PULL STRING. NO J-BOXES OR CUSTOMER CONDUCTORS IN METERING CONDUIT. UTILITY SHALL FURNISH AND INSTALL METER AND METERING CONDUCTORS; CONTRACTOR SHALL FURNISH AND INSTALL METER SOCKET/PAN AND CONDUIT/TERMINATIONS. COORDINATE ROUTE, ENTRY HEIGHTS, AND SEALING WITH THE UTILITY PRIOR TO ROUGH-IN.
6. NO EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH THE SERVICE-ENTRANCE CONDUCTORS BETWEEN THE UTILITY PAD-MOUNT TRANSFORMER AND PANELBOARD MDP-VHS-S. BOND ALL METALLIC SERVICE RACEWAYS/FITTINGS PER NEC 250.92, PROVIDE THE MAIN BONDING JUMPER AT SWITCHBOARD MDP, AND INSTALL THE GROUNDING ELECTRODE CONDUCTOR(S) TO THE BUILDING GEC PER NEC 250.24/250.66. COORDINATE ANY SPECIFIC REQUIREMENTS WITH THE UTILITY.
7. PRESS BOX PANELBOARD SHALL BE FURNISHED AND INSTALLED BY THE PRESS BOX MANUFACTURER. ELECTRICAL CONTRACTOR SHALL COORDINATE FEEDER/BRANCH CIRCUIT TERMINATIONS, CONDUIT ENTRY LOCATIONS, LUG TYPES, VOLTAGE/AIC RATINGS, AND GROUND/NEUTRAL REQUIREMENTS WITH APPROVED PRESS BOX SHOP DRAWINGS PRIOR TO ROUGH-IN. PROVIDE SLEEVES/CONDUITS TO MATCH SHOP DRAWINGS AND VERIFY WORKING CLEARANCES AND MOUNTING ELEVATIONS.
8. SURGE PROTECTIVE DEVICE (SPD): PROVIDE CURRENT TECHNOLOGY TRANSGUARD MODEL TG3-080-208-3Y-MN-B-M3-F-HPI OR APPROVED EQUAL; UL 1449 (4TH ED) TYPE 1, 208Y/120, 3ø, 4W+G, ALL MODES (L-L, L-N, L-G, N-G). MOUNT ADJACENT TO PANEL AND CONNECT VIA DEDICATED BREAKER; LIMIT TOTAL LEAD LENGTH TO LESS THAN 18 IN. INTERNAL/PLUG-ON (IN-PANEL) SPDs NOT PERMITTED. PROVIDE LOCAL STATUS INDICATION AND REMOTE ALARM CONTACTS. INSTALL PER MANUFACTURER'S REQUIREMENTS. CONDUIT RUN FROM SPD TO PANEL SHALL BE LESS THAN 10 FT.

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: KDB
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ELECTRICAL ONE-LINE DIAGRAM - WCHS SOFTBALL

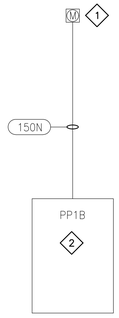
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E602

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PP1B

ROOM CONCESSIONS ELECTRICAL ROOM
MOUNTING SURFACE
FED FROM LVD-EXISTING
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 150
NEUTRAL 100%

AIC 22,000
MAIN BKR 150
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	B	C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	B	C
1	20/1	REFRIGERATOR (GFCI BREAKER)	0.8			2	20/1	RECEPTACLE	0.18		
3	20/1	RECEPTACLE		0.18		4	20/1	RECEPTACLE		0.18	
5	20/1	RECEPTACLE			0.18	6	20/1	RECEPTACLE			0.18
7	20/1	RECEPTACLE	0.72			8	20/1	REFRIGERATOR (GFCI BREAKER)	0.8		
9	20/1	WATER FOUNTAIN (GFCI BREAKER)		0.8		10	20/1	RECEPTACLE		0.36	
11	40/2	WH-1			3	12	20/2	IDU-1, IDU-2, IDU-3, IDU-4, IDU-5			1
13	|		3			14	|		1		
15	30/2	HP-1		1.98		16	20/1	RECEPTACLE		0.18	
17	|				1.98	18	20/1	RECEPTACLE			0.18
19	30/2	HP-2	1.98			20	20/1	RECEPTACLE	0.18		
21	|			1.98		22	20/1	RECEPTACLE		0.18	
23	20/2	HP-3			1.25	24	20/1	RECEPTACLE			0.9
25	|		1.25			26	20/1	CEILING RECEPTACLE (GFCI BREAKER)	0.18		
27	20/2	ICE MACHINE (GFCI BREAKER)		0.75		28	20/1	LIGHTING		0.818	
29	|				0.75	30	20/1	LIGHTING			0.256
31	20/1	SPARE	0			32	20/1	LIGHTING	0.156		
33	20/1	SPARE		0		34	20/1	SPARE		0	
35	20/1	SPARE			0	36	20/1	SPARE			0
37	20/1	SPARE	0			38	20/1	SPARE	0		
39	20/1	SPARE		0		40	20/1	SPARE		0	
41	20/1	SPARE			0	42	20/1	SPARE			0
								TOTAL CONNECTED KVA BY PHASE	10.2	7.4	9.67
								TOTAL CONNECTED AMPS BY PHASE	86.7	61.7	81.4

	CONN KVA	CALC KVA	
LIGHTING	1.23	1.54	(125%)
LARGEST MOTOR	3.95	0.988	(25%)
MOTORS	12.4	12.4	(100%)

	CONN KVA	CALC KVA	
RECEPTACLES	6.08	6.08	(50%>10)
KITCHEN EQUIPMENT	1.6	1.6	(100%)
HEATING	5.99	5.99	(100%)
TOTAL LOAD		28.6	
BALANCED 3-PHASE LOAD		79.4 A	

DRAWING E603 NOTES

1. **ARC-FLASH STUDY & LABELS:** CONTRACTOR SHALL PROVIDE SHORT-CIRCUIT PROTECTIVE DEVICE COORDINATION AND ARC-FLASH STUDIES PER SPECIFICATIONS. FURNISH AND APPLY ARC-FLASH HAZARD LABELS TO ALL NEW ELECTRICAL EQUIPMENT SUBJECT TO EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED, IN ACCORDANCE WITH NFPA 70E (AND NEC 110.16(B) WHERE APPLICABLE). LABELS SHALL REFLECT AS-BUILT CONDITIONS AND BE IN PLACE PRIOR TO ENERGIZATION; UPDATE IF SYSTEM CHANGES OCCUR.
2. **ELECTRONIC TRIP SETTINGS:** CONTRACTOR SHALL SET ALL ELECTRONIC TRIP CIRCUIT BREAKERS IN ACCORDANCE WITH APPROVED PROTECTIVE DEVICE COORDINATION STUDY SETTING TABLE (LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND-FAULT WHERE PROVIDED). RECORD "AS-LEFT" SETTINGS ON THE SCHEDULE AND EQUIPMENT, AND SUBMIT TEST RESULTS.

DRAWING E603 SPECIFIC NOTES

1. PROVIDE SELF-CONTAINED METERING FOR 208/120V, 3-PHASE, 4-WIRE, 150A SERVICE – NO CT CABINET REQUIRED. FURNISH AND INSTALL A 7-JAW, 200A-RATED, NEMA 3R METER SOCKET (RINGLESS WITH LEVER BYPASS UNLESS THE UTILITY REQUIRES OTHERWISE); LOCATION, MOUNTING HEIGHT, AND BYPASS TYPE PER LOCAL UTILITY STANDARD. UTILITY SHALL FURNISH AND INSTALL THE METER; CONTRACTOR SHALL FURNISH AND INSTALL THE METER SOCKET, HUBS, SEALS, AND SERVICE RACEWAYS/CONDUITS (OVERHEAD OR UNDERGROUND AS APPLICABLE), USING RGS WHERE EXPOSED AND PVC SCH 80 UNDERGROUND UNLESS DIRECTED OTHERWISE. ROUTE FROM SERVICE POINT TO METER SOCKET AND FROM METER SOCKET TO THE 150A, 208/120V, 3-PHASE PANEL MAIN; SIZE SERVICE CONDUCTORS AND RACEWAYS PER THIS DRAWING, UTILITY REQUIREMENTS, AND PANEL LUGS. PROVIDE NEUTRAL ISOLATION/BONDING, GROUNDING ELECTRODE CONNECTIONS, AND SEALABLE FITTINGS AS REQUIRED. COORDINATE ALL DETAILS WITH THE UTILITY PRIOR TO ROUGH-IN.
2. SURGE PROTECTIVE DEVICE (SPD): PROVIDE CURRENT TECHNOLOGY TRANSGUARD MODEL TG3-080-208-3Y-MN-B-M3-F-HPI OR APPROVED EQUAL; UL 1449 (4TH ED) TYPE 1, 208Y/120, 3Φ, 4W+G, ALL MODES (L-L, L-N, L-G, N-G). MOUNT ADJACENT TO PANEL AND CONNECT VIA DEDICATED BREAKER; LIMIT TOTAL LEAD LENGTH TO LESS THAN 18 IN. INTERNAL/PLUG-ON (IN-PANEL) SPDs NOT PERMITTED. PROVIDE LOCAL STATUS INDICATION AND REMOTE ALARM CONTACTS. INSTALL PER MANUFACTURER'S REQUIREMENTS. CONDUIT RUN FROM SPD TO PANEL SHALL BE LESS THAN 10 FT.

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VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: KDB
CHECKED BY: KDB

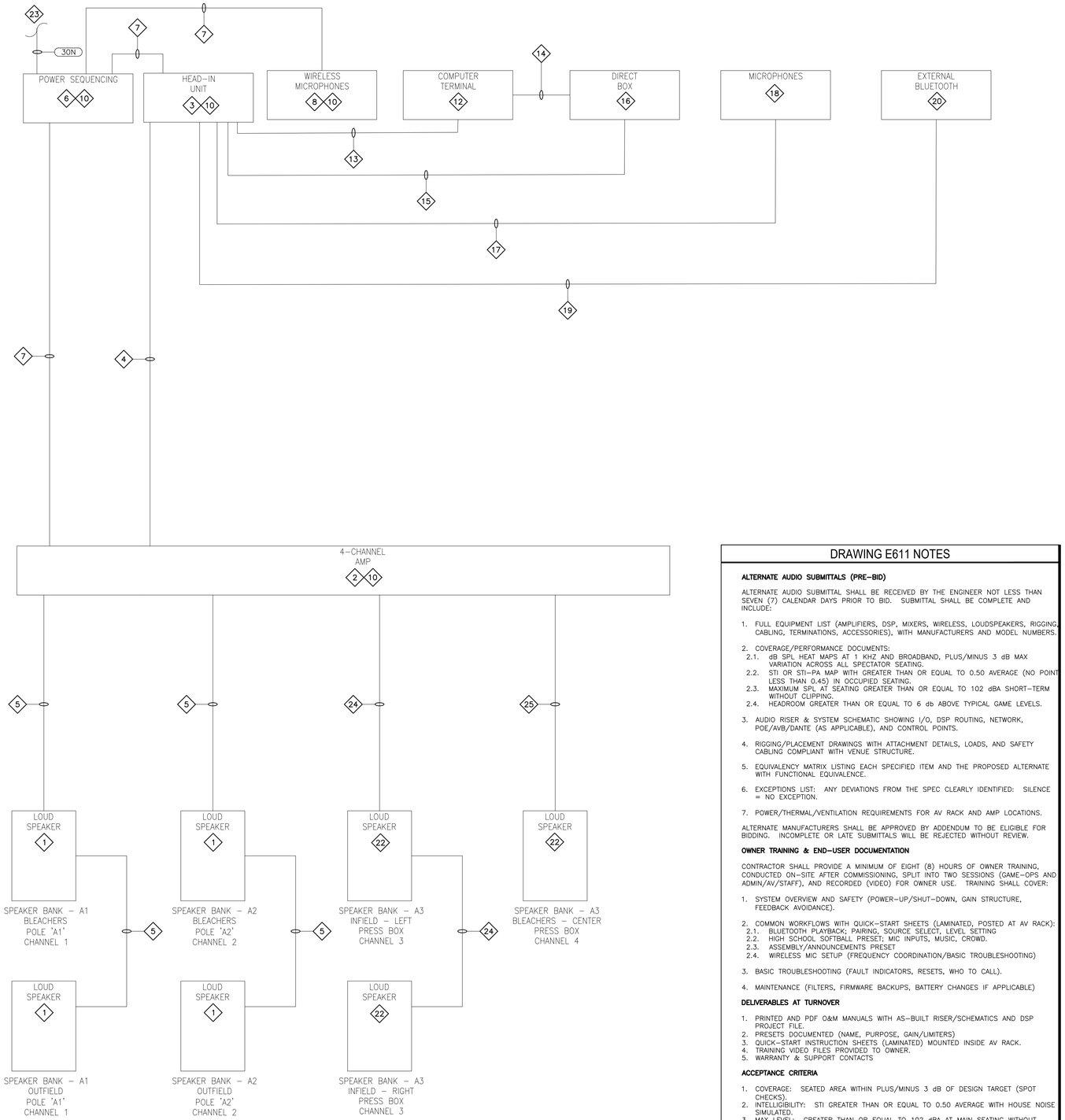
ELECTRICAL RISER DIAGRAM - VHS BASEBALL

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION

E603

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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DRAWING E611 NOTES

ALTERNATE AUDIO SUBMITTALS (PRE–BID)

ALTERNATE AUDIO SUBMITTAL SHALL BE RECEIVED BY THE ENGINEER NOT LESS THAN SEVEN (7) CALENDAR DAYS PRIOR TO BID. SUBMITTAL SHALL BE COMPLETE AND INCLUDE:

1. FULL EQUIPMENT LIST (AMPLIFIERS, DSP, MIXERS, WIRELESS, LOUDSPEAKERS, RIGGING, CABLING, TERMINATIONS, ACCESSORIES), WITH MANUFACTURERS AND MODEL NUMBERS.

2. COVERAGE/PERFORMANCE DOCUMENTS:
   - 2.1. dB SPL HEAT MAPS AT 1 KHZ AND BROADBAND, PLUS/MINUS 3 dB MAX VARIATION ACROSS ALL SPECTATOR SEATING.
   - 2.2. STI OR STI–PA MAP WITH GREATER THAN OR EQUAL TO 0.50 AVERAGE (NO POINT LESS THAN 0.45) IN OCCUPIED SEATING.
   - 2.3. MAXIMUM SPL AT SEATING GREATER THAN OR EQUAL TO 102 dBA SHORT–TERM WITHOUT CLIPPING.
   - 2.4. HEADROOM GREATER THAN OR EQUAL TO 6 dB ABOVE TYPICAL GAME LEVELS.

3. AUDIO RISER & SYSTEM SCHEMATIC SHOWING I/O, DSP ROUTING, NETWORK, POE/AVB/DANTE (AS APPLICABLE), AND CONTROL POINTS.

4. RIGGING/PLACEMENT DRAWINGS WITH ATTACHMENT DETAILS, LOADS, AND SAFETY CABLING COMPLIANT WITH VENUE STRUCTURE.

5. EQUIVALENCY MATRIX LISTING EACH SPECIFIED ITEM AND THE PROPOSED ALTERNATE WITH FUNCTIONAL EQUIVALENCE.

6. EXCEPTIONS LIST: ANY DEVIATIONS FROM THE SPEC CLEARLY IDENTIFIED: SILENCE = NO EXCEPTION.

7. POWER/THERMAL/VENTILATION REQUIREMENTS FOR AV RACK AND AMP LOCATIONS.

ALTERNATE MANUFACTURERS SHALL BE APPROVED BY ADDENDUM TO BE ELIGIBLE FOR BIDDING. INCOMPLETE OR LATE SUBMITTALS WILL BE REJECTED WITHOUT REVIEW.

OWNER TRAINING & END–USER DOCUMENTATION

CONTRACTOR SHALL PROVIDE A MINIMUM OF EIGHT (8) HOURS OF OWNER TRAINING, CONDUCTED ON–SITE AFTER COMMISSIONING, SPLIT INTO TWO SESSIONS (GAME–OPS AND ADMIN/AV/STAFF), AND RECORDED (VIDEO) FOR OWNER USE. TRAINING SHALL COVER:

1. SYSTEM OVERVIEW AND SAFETY (POWER–UP/SHUT–DOWN, GAIN STRUCTURE, FEEDBACK AVOIDANCE).

2. COMMON WORKFLOWS WITH QUICK–START SHEETS (LAMINATED, POSTED AT AV RACK):
   - 2.1. BLUETOOTH PLAYBACK; PAIRING, SOURCE SELECT, LEVEL SETTING
   - 2.2. HIGH SCHOOL SOFTBALL PRESETS: MIC INPUTS, MUSIC, CROWD.
   - 2.3. ASSEMBLY/ANNOUNCEMENTS PRESET
   - 2.4. WIRELESS MIC SETUP (FREQUENCY COORDINATION/BASIC TROUBLESHOOTING)

3. BASIC TROUBLESHOOTING (FAULT INDICATORS, RESETS, WHO TO CALL).

4. MAINTENANCE (FILTERS, FIRMWARE BACKUPS, BATTERY CHANGES IF APPLICABLE)

DELIVERABLES AT TURNOVER

1. PRINTED AND PDF O&M MANUALS WITH AS–BUILT RISER/SCHEMATICS AND DSP PROJECT FILE.
2. PRESETS DOCUMENTED (NAME, PURPOSE, GAIN/LIMITERS)
3. QUICK–START INSTRUCTION SHEETS (LAMINATED) MOUNTED INSIDE AV RACK.
4. TRAINING VIDEO FILES PROVIDED TO OWNER.
5. WARRANTY & SUPPORT CONTACTS

ACCEPTANCE CRITERIA

1. COVERAGE: SEATED AREA WITHIN PLUS/MINUS 3 dB OF DESIGN TARGET (SPOT CHECKS).
2. INTELLIGIBILITY: STI GREATER THAN OR EQUAL TO 0.50 AVERAGE WITH HOUSE NOISE SIMULATED.
3. MAX LEVEL: GREATER THAN OR EQUAL TO 102 dBA AT MAIN SEATING WITHOUT AMPLIFIER CLIPPING.
4. FEEDBACK STABILITY: GREATER THAN OR EQUAL TO 6 dB MARGIN AT GAME PRESET WITH HANDHELD WIRELESS AT CENTER COURT.
5. PRESET RECALL: ALL LISTED PRESET FUNCTION AND ARE LOCKED AGAINST ACCIDENTAL EDT.

DRAWING E611 SPECIFIC NOTES

1. LOUDSPEAKERS: RCF COMPACT C 45 WP. MOUNT AT LIGHT POLES SHOWN ON SHEETS E101 AND E103 WITH T.O. CABINET AT 40'–0" AFG. AIM AND CONFIGURE PER MANUFACTURER SHOP/AIMING DRAWINGS. PROVIDE RCF–APPROVED POLE–MOUNT BRACKETS/BANDS WITH VIBRATION ISOLATION; HARDWARE SHALL BE HOT–DIP GALVANIZED OR ZINC–PLATED STEEL. SUBMIT RIGGING LOADS, WIND/POLE – CAPACITY CHECK, AND ATTACHMENT DETAILS FOR APPROVAL; MAINTAIN POLE WARRANTY. ROUTE CABLING WITHIN POLE/CONDUIT; PROVIDE SLEEVED, GASKETED, SEALED PENETRATIONS – NO FIELD CAULK ONLY OPENINGS OR EXPOSED SPLICES. WEATHERPROOF CONNECTIONS; BOND/GROUND PER NEC. COORDINATE FINAL TILT, AZIMUTH, AND HORN/WAVEGUIDE SELECTION WITH RCF AND REFLECT IN APPROVED SHOP DRAWINGS.

2. AMPLIFIERS: RCF QPS 10K, 4–CHANNEL. RACK–MOUNT IN AUDIO CABINET WITH MANUFACTURER RACK EARS; PROVIDE VENTILATION CLEARANCES AND AIRFLOW PER MANUFACTURER. PROVIDE DEDICATED BRANCH–CIRCUIT POWER AND SURGE PROTECTION PER MANUFACTURER REQUIREMENTS. THIS AMPLIFIER HAS NO ONBOARD DSP–ALL EQ, LIMITING, AND DELAYS SHALL BE PROVIDED BY THE ALLEN & HEATH SQ–RACK AND COORDINATED DURING COMMISSIONING. MAINTAIN A MINIMUM LOAD OF 4 Ω PER CHANNEL; DO NOT PARALLEL MORE THAN TWO (2) 8–Ω LOUDSPEAKERS ON A SINGLE CHANNEL. LABEL AMP INPUTS BY ZONE AND LABEL AMP OUTPUTS TO MATCH LOUDSPEAKER IDS ON THE DRAWINGS. PROVIDE TERMINATIONS, FERRULES/LOOMING, AND CABLE MANAGEMENT FOR A NEAT, SERVICEABLE INSTALLATION.

3. HEAD–IN (MIXER/PROCESSOR): ALLEN & HEATH SQ–RACK (SQ–SERIES ENGINE/IO). RACK–MOUNT IN AV CABINET WITH MANUFACTURER RACK EARS AND PROVIDE REQUIRED VENTILATION CLEARANCE. THIS UNIT SHALL PROVIDE SYSTEM DSP (EQ, DYNAMICS, DELAYS, ROUTING) FOR ALL ZONES. PROVIDE BALANCED ANALOG LINE–LEVEL OUTPUTS TO AMPLIFIERS (OR NETWORKED AUDIO OUTPUTS SUCH AS DANTE/SLINK AS SHOWN IN SUBMITTALS); INCLUDE ALL REQUIRED INTERFACE CARDS, PATCH CABLES, AND BREAKOUTS. PROVIDE USB/NETWORK CONNECTIVITY FOR CONTROL/RECORDING AS REQUIRED. LOAD CURRENT FIRMWARE, LABEL ALL I/O TO MATCH APPROVED SHOP DRAWINGS, AND SAVE/DELIVER SCENE PRESETS (HIGH SCHOOL GAME, JUNIOR HIGH GAME, PRACTICE, BLUETOOTH) TO INTERNAL MEMORY AND TO A SUPPLIED USB DRIVE. COORDINATE FINAL I/O MAP AND OUTPUT LEVEL STRUCTURE WITH AMPLIFIER COMMISSIONING.

4. LINE–LEVEL CABLING (HEAD–IN → AMPLIFIERS): PROVIDE BALANCED ANALOG LINE–LEVEL CABLING FROM ALLEN & HEATH SQ–RACK OUTPUTS TO RCF QPS 10K INPUTS. USE SHIELDED AUDIO CABLE–STAR–QUAD PREFERRED FOR NOISE REJECTION (E.G., MOGAMI/ CANARE STAR–QUAD) OR SINGLE TWISTED–PAIR (E.G., WEST PENN 454 OR EQUAL) WHERE RUNS ARE SHORT/CLEAN. USE C(UL)US–LISTED AUDIO/COMM CABLE. TERMINATE BALANCED ANALOG (XLR/TRS AS REQUIRED BY I/O; TYPICAL: XLR–M AT AMP, XLR–F/TRS AT MIXER). BOND SHIELD/DRAIN AT RACK (SOURCE) END ONLY AND FLOAT AT AMP END; DO NOT LIFT AUDIO GROUNDS. ROUTE NEATLY IN THE AUDIO RACK USING LACING BARS/CABLE MANAGERS; USE HOOK–AND–LOOP (NO ZIP TIES ON SIGNAL); PROVIDE SERVICE LOOPS AND STRAIN RELIEF AT EACH DEVICE. MAINTAIN SEPARATION FROM AC POWER/PDUS AND SPEAKER–LEVEL CONDUCTORS; CROSS ONLY AT 90°. LABEL BOTH ENDS TO MATCH THE I/O SCHEDULE AND AS–BUILTS.

5. SPEAKER CABLING (AMPLIFIER → POLE–MOUNTED LOUDSPEAKERS): LOW–IMPEDANCE SYSTEM; TWO (2) RCF COMPACT C 45 WP (8 Ω EACH) CONNECTED IN PARALLEL PER RCF QPS 10K CHANNEL (APPROX. 4 Ω LOAD PER CHANNEL). FROM EACH AMPLIFIER OUTPUT, RUN WEST PENN 227 (12 AWG, 2 CONDUCTOR, STRANDED TINNED–COPPER, EXTERIOR/UV/WET–RATED, DIRECT–BURIAL TYPE) OR APPROVED EQUAL TO THE FIRST C45 LOUDSPEAKER; LOOP–THRU TO THE SECOND C45 USING NL4 LINK (PINS 1+ / 1– ONLY, PINS 2+ / 2– NOT USED). OBSERVE POLARITY END–TO–END. NO SPLICES IN CONCEALED RUNS – TERMINATE ONLY AT AMPLIFIER OUTPUT AND LOUDSPEAKER NL4 CONNECTORS. PROVIDE STRAIN RELIEF AND SERVICE LOOPS AT RACK AND SPEAKER LOCATIONS; APPLY DIELECTRIC GREASE AND WEATHER BOOTS AT EXTERIOR CONNECTORS. MAINTAIN SEPARATION FROM AC POWER/PDUS AND DATA CABLES. LABEL BOTH ENDS (E.G., "CH–1 TO C45–01/02"). VERIFY FINAL LOAD IS WITHIN AMPLIFIER SPECIFICATION AND SET CHANNEL LIMITERS FOR APPROXIMATELY 700 W RMS PER LOUDSPEAKER PER MANUFACTURER RECOMMENDATION.

6. AV RACK POWER DISTRIBUTION: FURMAN ASD–120 2.0, 6–CIRCUIT POWER SEQUENCER (120 A RATED). RACK–MOUNT IN AUDIO CABINET AND FEED WITH DEDICATED BRANCH CIRCUIT(S) PER NAMEPLATE, SAME PHASE/LEG GROUP, WITH NEUTRAL AND EQUIPMENT GROUND. SERVE AV EQUIPMENT ONLY (AMPLIFIERS, MIXER/PROCESSOR)–NO LIGHTING OR NON–AV LOADS. CONFIGURE SEQUENCE TIMING SO MIXER/PROCESSOR AND DSP POWER UP FIRST, AMPLIFIERS LAST; ON SHUTDOWN, AMPLIFIERS OFF FIRST. BOND PDU AND RACK TO EQUIPMENT GROUND PER NEC 640. PROVIDE STRAIN RELIEF AND CORD MANAGEMENT; MAINTAIN REQUIRED VENTILATION AND WORKING CLEARANCES IN RACK. LABEL INCOMING CIRCUIT(S), PDU, AND ALL OUTLETS.

7. POWER CORDS: PROVIDE UL–LISTED MANUFACTURER POWER CORD SETS FOR EACH AV DEVICE, MATCHING DEVICE IEC INLET (E.G., C13/C19) AND PDU RECEPTACLE (NEMA TYPE) EXACTLY–NO ADAPTERS. USE MINIMUM 14 AWG FOR AMPLIFIERS (OR PER NAMEPLATE, WHICHEVER IS LARGER). ROUTE WITHIN THE AV RACK TO THE AV RACK POWER DISTRIBUTION USING HORIZONTAL/VERTICAL CABLE MANAGERS; PROVIDE CORD RETENTION OR LOCKING IEC WHERE AVAILABLE AT BOTH ENDS. NO EXTENSION CORDS, NO DAISY–CHAINS, NO POWER STRIPS. CORD LENGTHS TO SUIT; DO NOT COIL EXCESS IN THE RACK; DO NOT OBSTRUCT EQUIPMENT VENTS. SEPARATE FROM LOW–LEVEL SIGNAL CABLES; CROSS ONLY AT 90°. LABEL BOTH ENDS WITH DEVICE ID AND CIRCUIT. USE HOOK–AND–LOOP FOR BUNDLING (NO ZIP TIES).

8. WIRELESS UMPIRE MIC SYSTEM: PROVIDE SHURE HEADWORN MICROPHONE (SM35 OR WH20) WITH INLINE ON/OFF SWITCH (WA360 OR EQUAL) AND SHURE SLXD1 BODY–PACK TRANSMITTER. PROVIDE MATCHING SHURE SLXD4 RECEIVER IN PRESS BOX AV RACK; SELECT FREQUENCY BAND COMPATIBLE WITH LOCAL RF SPECTRUM. INCLUDE TA4F CONNECTION, BELT POUCH/CLIP, AND FOAM WINDSCREEN. LABEL CHANNEL "HEAD UMPIRE." CONNECT RECEIVER XLR OUTPUT TO MIXER INPUT AS SHOWN.

9. NOT USED.

10. LOCATED IN AV EQUIPMENT WALL CABINET. SEE SHEET E142 FOR CABINET DETAILS.

11. NOT USED.

12. COMPUTER TERMINAL (LAPTOP): WINDOWS 11 PRO; INTEL I7 OR RYZEN 7 CPU; 16 GB RAM MIN; 1 TB NVME SSD; 16" DISPLAY (1920×1080 MIN). PROVIDE GIGABIT ETHERNET (RJ–45 NATIVE OR USB–C ADAPTER) AND WI–FI 6; BLUETOOTH 5.X; HDMI OUTPUT; MIN. (2) USB–A AND (1) USB–C PORTS. LOCATE IN PRESS BOX WITH DEDICATED AV RECEPTACLE AND CAT6 DATA DROP TO AV RACK (WIRED ETHERNET AS PRIMARY, WI–FI SECONDARY). INCLUDE LOCKABLE SECURITY CABLE/ANCHOR, ASSET TAG, AND CARRY CASE. CONFIGURE WINDOWS "HIGH PERFORMANCE" POWER PROFILE; DISABLE SLEEP/HYBRID SLEEP/USB SELECTIVE SUSPEND. PROVIDE AUTO–LOGIN USER ACCOUNT (PER OWNER), PLUS LOCAL ADMIN ACCOUNT FOR AV SOFTWARE/UPDATES; ENABLE BITLOCKER AND DELIVER RECOVERY KEY TO OWNER. PRE–INSTALL LATEST DRIVERS/FIRMWARE AND APPROVED AV SOFTWARE (INCLUDING ALLEN & HEATH SQ EDITOR/UTILITIES AND OWNER–APPROVED PLAYBACK/RECORD APPS). PROVIDE HDMI AND 3.5 MM/USB AUDIO BREAKOUT AS REQUIRED FOR MIXER INPUT; INCLUDE NECESSARY ADAPTERS (USB–C → HDMI/DP) AND 10–FT PATCH CABLES. POWER FROM AV RACK PDU/SEQUENCER; PROVIDE CORD MANAGEMENT. LABEL DEVICE, POWER, AND NETWORK CONNECTIONS TO MATCH SHOP DRAWINGS; DELIVER BASELINE SYSTEM IMAGE AND RESTORE MEDIA TO OWNER.

13. DATA LINK (COMPUTER → AUDIO RACK): INSTALL ONE (1) CAT6 UTP CABLE (CAT6A F/UTP OPTIONAL FOR NOISE IMMUNITY) FROM PRESS BOX COMPUTER TERMINAL TO AUDIO RACK (HEAD–IN). ROUTE IN CONDUIT; MAINTAIN MINIMUM 6" SEPARATION FROM AC POWER. TERMINATE ON CATEGORY 6–RATED RJ–45 JACKS AT BOTH ENDS (PATCH PANEL OR 1–GANG JACK AT RACK; 1–GANG JACK AT PRESS BOX TABLE). TERMINATE PER TIA/EIA–568B PINOUT. LABEL BOTH ENDS TO MATCH DRAWINGS AND I/O SCHEDULE. PROVIDE TWO (2) FACTORY–MOLDED CAT6 PATCH CORDS (3–10 FT) AT TURNOVER. TOTAL CHANNEL LENGTH SHALL NOT EXCEED 295 FT (90 M PERMANENT LINK PLUS PATCH CORDS). MAINTAIN BEND RADIUS (≥1" MIN) AND DO NOT EXCEED PULL TENSION LIMITS. NO COUPLERS OR MID–RUN SPLICES. PROVIDE PULL STRING IN CONDUIT FOR FUTURE USE. FIELD–TEST LINK WITH CERTIFIED CAT6 TESTER (FLUKE DSX OR EQUAL) AND SUBMIT RESULTS WITH CLOSEOUT DOCUMENTS.

14. AUX INPUT (LAPTOP → PASSIVE STEREO DI): PROVIDE HOSA HMP–006Y OR EQUAL 3.5 MM TRS MALE TO DUAL 1/4" TS MALE "Y" BREAKOUT CABLE TO CONNECT LAPTOP HEADPHONE OUTPUT TO PASSIVE STEREO DI INPUTS (E.G., RADIAL TRIM–TWO) AT THE PRESS BOX TABLE. KEEP UNBALANCED BREAKOUT LENGTH SHORT (6"–1') AND RUN BALANCED XLR OUTPUTS FROM THE DI TO THE MIXER LINE INPUTS IN THE RACK. DI SHALL INCLUDE GROUND–LIFT AND PAD SWITCHES. PROVIDE STRAIN RELIEF OR CABLE CLIP TO PREVENT STRESS AT THE 3.5 MM JACK. LABEL ADAPTER "LAPTOP TO DI (L/R)" AND LABEL XLR OUTPUTS TO MATCH I/O SCHEDULE.

15. DI TO HEAD–IN (LINE–LEVEL): PROVIDE TWO (2) RUNS OF SHIELDED SINGLE TWISTED–PAIR AUDIO CABLE (22 AWG, WEST PENN 454 OR EQUAL) – LEFT (DI–L) AND RIGHT (DI–R) – FROM PASSIVE STEREO DI (PRESS BOX TABLE) TO HEAD–IN LINE INPUTS IN AUDIO RACK. FOR RUNS EXCEEDING 75 FT, USE 20 AWG EQUIVALENT. ROUTE IN CONDUIT; NO MID–RUN SPLICES. TERMINATE AS BALANCED ANALOG (XLR–F AT DI OUTPUT, XLR–M AT RACK INPUT). BOND SHIELD/DRAIN AT RACK (SOURCE) END ONLY; FLOAT AT DI END – DO NOT LIFT PIN 1. PROVIDE SERVICE LOOPS AND STRAIN RELIEF AT BOTH ENDS. LABEL BOTH ENDS "DI–L" AND "DI–R" TO MATCH I/O SCHEDULE. VERIFY CONTINUITY AND POLARITY BEFORE CLOSEOUT.

DRAWING E611 SPECIFIC NOTES (CONTINUE)

16. PASSIVE STEREO DIRECT BOX: RADIAL TRIM–TWO, DUAL PASSIVE, TRANSFORMER–ISOLATED WITH TRIM/ATTENUATION. LOCATE AT PRESS BOX TABLE TO INTERFACE LAPTOP/AUX TO HEAD–IN VIA BALANCED XLR LEFT/RIGHT. PROVIDE SHORT 3.5 MM TRS–TO–DUAL 1/4" TS BREAKOUT (HOSA HMP–006Y OR EQUAL) AT THE TABLE, WITH BALANCED XLR–F OUTPUTS FROM THE DI TO THE RACK LINE INPUTS. USE DI TRIM/PAD AS REQUIRED TO PREVENT OVERLOAD AND ENGAGE GROUND–LIFT AS NEEDED TO ELIMINATE HUM (DO NOT LIFT PIN 1 AT XLR). SECURE DI AND CABLES WITH TIE–DOWN/VELCRO TO PREVENT STRAIN ON THE 3.5 MM JACK. LABEL DI AND XLR OUTPUTS "DI–L" (LEFT) AND "DI–R" (RIGHT) TO MATCH THE I/O SCHEDULE.

17. GOOSENECK MIC LINES (PRESS BOX TABLE → HEAD–IN): PROVIDE TWO (2) RUNS OF SHIELDED BALANCED MICROPHONE CABLE, 22 AWG (WEST PENN 454 OR EQUAL); STAR–QUAD PREFERRED FOR NOISE REJECTION. ROUTE IN CONDUIT; NO MID–RUN SPLICES. TERMINATE AS BALANCED MIC–LEVEL XLR (PIN 2 = HOT, PIN 3 = COLD, PIN 1 = SHIELD) WITH XLR–F AT THE TABLE JACKS AND XLR–M AT THE RACK INPUTS. BOND SHIELD (PIN 1) AT BOTH ENDS; DO NOT LIFT PIN 1. PROVIDE 48 V PHANTOM POWER AT THE HEAD–IN AS REQUIRED BY MICROPHONES. MAINTAIN SEPARATION FROM AC POWER/PDUS; CROSS ONLY AT 90°. PROVIDE SERVICE LOOPS AND STRAIN RELIEF AT BOTH ENDS. LABEL BOTH ENDS "MIC–1" AND "MIC–2" TO MATCH THE I/O SCHEDULE AND VERIFY CONTINUITY/POLARITY AT CLOSEOUT.

18. GOOSENECK MICROPHONES: PROVIDE TWO (2) SHURE MX418D/C (18", CARDIOID) DESKTOP GOOSENECK MICROPHONES WITH BASES (LED/MUTE). LOCATE AT PRESS BOX TABLE. PROVIDE 48 V PHANTOM POWER FROM HEAD–IN. TERMINATE WITH BALANCED XLR (TABLE JACK = XLR–F TO ACCEPT MIC BASE; RACK INPUT = XLR–M). CONFIGURE MUTE SWITCH BEHAVIOR (LATCHING OR MOMENTARY) AND LED TALLY PER APPROVED SHOP DRAWINGS; DEFAULT TO LATCHING "MUTE/UNMUTE" WITH LED FOLLOW. INCLUDE WINDSCREENS, SHOCK/POP ISOLATION, AND CABLE STRAIN RELIEF. USE TAMPER–RESISTANT MOUNTING HARDWARE AND SECURE BASES TO TABLE PER MANUFACTURER INSTRUCTIONS. LABEL "MIC–1" AND "MIC–2." COORDINATE FINAL GAIN STRUCTURE, PHANTOM, AND MUTE LOGIC WITH MIXER SCENES.

19. AUX BLUETOOTH LINES (BT RECEIVER → HEAD–IN): PROVIDE TWO (2) RUNS OF SHIELDED SINGLE TWISTED–PAIR AUDIO CABLE, 22 AWG (WEST PENN 454 OR EQUAL)–LEFT (BT–L) AND RIGHT (BT–R)–FROM A PROFESSIONAL BLUETOOTH RECEIVER WITH BALANCED XLR OUTPUTS (E.G., RADIAL BT–PRO V2 OR EQUAL) TO HEAD–IN LINE INPUTS. ROUTE IN CONDUIT; NO MID–RUN SPLICES. TERMINATE AS BALANCED ANALOG (XLR–F AT BT RECEIVER OUTPUTS, XLR–M AT RACK INPUTS). BOND SHIELD/DRAIN AT THE RACK (DESTINATION) END ONLY; FLOAT AT THE BT RECEIVER END. MAINTAIN SEPARATION FROM AC POWER/PDUS; CROSS ONLY AT 90°. PROVIDE SERVICE LOOPS AND STRAIN RELIEF. LABEL BOTH ENDS "BT–L" AND "BT–R" TO MATCH THE I/O SCHEDULE. VERIFY CONTINUITY/POLARITY AND LEFT/RIGHT CHANNEL ASSIGNMENTS AT CLOSEOUT.

20. BLUETOOTH RECEIVER: RADIAL BT–PRO V2 (2–CHANNEL ACTIVE BLUETOOTH DI). COORDINATE LOCATION WITH ENGINEER AND PROVIDE IN A NON–METALLIC NEMA 4X WEATHERPROOF ENCLOSURE WITH CLEAR WINDOW ORIENTED TOWARD THE FIELD FOR LINE–OF–SIGHT RF. PROVIDE GASKETED, UV–RATED CABLE GLANDS SIZED FOR (2) XLR CABLES; INSTALL DRIP LOOPS AND A DESICCANT PACK INSIDE THE ENCLOSURE. PROVIDE BALANCED LEFT/RIGHT XLR OUTPUTS TO HEAD–IN; KEEP THE DEVICE LEVEL CONTROL ACCESSIBLE THROUGH THE WINDOW OR BY OPENING THE COVER. POWER: DEFAULT TO 48 V PHANTOM (ENABLE PHANTOM ON BOTH XLR INPUT CHANNELS AT THE MIXER). MOUNT SECURELY WITH TAMPER–RESISTANT HARDWARE; PROVIDE SERVICE LOOP ON ALL CABLES. MAINTAIN SEPARATION FROM AC POWER/PDUS; AVOID MOUNTING IMMEDIATELY ADJACENT TO LARGE METAL.

21. NOT USED.

22. LOUDSPEAKERS: RCF COMPACT C 45 WP. MOUNT ATOP PRESS BOX AS SHOWN ON E142 USING ENGINEER–APPROVED BRACKETS WITH VIBRATION ISOLATION; ANCHOR TO STRUCTURE (NOT PARAPET CAP). VERIFY STRUCTURAL CAPACITY AND WIND/UPLIFT WITH ENGINEER; PROVIDE SECONDARY SAFETY TETHER PER MANUFACTURER. AIM/CONFIGURE PER APPROVED MANUFACTURER SHOP/AIMING DRAWINGS; TORQUE FASTENERS TO MANUFACTURER SPEC. ROUTE CABLING WITHIN WALL/ROOF CAVITY; PROVIDE SLEEVED, GASKETED, SEALED PENETRATIONS–NO FIELD–CAULK–ONLY OPENINGS OR EXPOSED SPLICES. USE UV–RATED OUTDOOR CABLE; PROVIDE DRIP LOOPS AND WEATHER BOOTS AT EXTERIOR CONNECTORS. HARDWARE: HOT–DIP GALVANIZED OR ZINC–PLATED STEEL (NO STAINLESS). WEATHERPROOF CONNECTIONS; BOND/GROUND PER NEC. COORDINATE FINAL TILT, AZIMUTH, AND HORN/WAVEGUIDE SELECTION WITH RCF AND SHOW IN APPROVED SHOP DRAWINGS; COORDINATE WITH ROOFING CONTRACTOR TO MAINTAIN ROOF WARRANTY.

23. EED AV RACK POWER DISTRIBUTION FROM PRESS BOX PANEL. INSTALL 30 A, 2–POLE (COMMON–TRIP) BREAKER, 120/240 V, SINGLE–PHASE, DEDICATED TO AV–NO SHARED LOADS. PROVIDE 4–WIRE FEED (2 HOTS + NEUTRAL + EQUIPMENT GROUND) IN CONDUIT TO AV RACK PDU/RECEPTACLE AS SHOWN; PROVIDE NEMA L14–30R RECEPTACLE. SIZE CONDUCTORS PER NEC 310 FOR 30 A (75 °C RATED COPPER). BOND NEUTRAL AND EQUIPMENT GROUND PER NEC 250. LABEL BREAKER, CONDUIT, AND RECEPTACLE "AV RACK PDU – 30 A DEDICATED (120/240 V 1Φ)." MAINTAIN SEPARATION FROM NON–AV CIRCUITS.

24. SPEAKER CABLING (AMPLIFIER → PRESS BOX LEFT/RIGHT LOUDSPEAKERS): LOW–IMPEDANCE SYSTEM; TWO (2) RCF COMPACT C 45 WP (8 Ω EACH) CONNECTED IN PARALLEL PER RCF QPS 10K CHANNEL (APPROX. 4 Ω LOAD PER CHANNEL). FROM EACH AMPLIFIER OUTPUT, RUN WEST PENN 227 (12 AWG, 2–CONDUCTOR, STRANDED TINNED–COPPER, EXTERIOR/UV/WET–RATED, DIRECT–BURIAL TYPE) OR APPROVED EQUAL TO THE FIRST C45 LOUDSPEAKER; LOOP–THRU TO THE SECOND C45 USING NL4 LINK (PINS 1+ / 1– ONLY; PINS 2+ / 2– NOT USED). OBSERVE POLARITY END–TO–END. NO SPLICES IN CONCEALED RUNS–TERMINATE ONLY AT AMPLIFIER OUTPUT AND LOUDSPEAKER NL4 CONNECTORS. TORQUE ALL TERMINALS PER MANUFACTURER SPEC. PROVIDE STRAIN RELIEF AND SERVICE LOOPS AT RACK AND SPEAKER LOCATIONS; APPLY DIELECTRIC GREASE AND WEATHER BOOTS AT EXTERIOR CONNECTORS. MAINTAIN SEPARATION FROM AC POWER/PDUS AND DATA CABLES. LABEL BOTH ENDS (E.G., "CH–1 TO C45–L/R"). VERIFY CONTINUITY, POLARITY, AND FINAL LOAD WITHIN AMPLIFIER SPECIFICATION; SET CHANNEL LIMITERS FOR APPROXIMATELY 700 W RMS PER LOUDSPEAKER PER MANUFACTURER RECOMMENDATION.

25. SPEAKER CABLING (AMPLIFIER → PRESS BOX CENTER LOUDSPEAKER): LOW–IMPEDANCE SYSTEM; ONE (1) RCF COMPACT C 45 WP (8 Ω) ON A DEDICATED RCF QPS 10K CHANNEL (8 Ω LOAD). FROM THE AMPLIFIER OUTPUT, RUN WEST PENN 227 (12 AWG, 2–CONDUCTOR, STRANDED TINNED COPPER, EXTERIOR/UV/WET–RATED, DIRECT–BURIAL TYPE) OR APPROVED EQUAL AS A HOME RUN TO THE C45 LOUDSPEAKER–NO LOOP–THRU. TERMINATE AT AMPLIFIER OUTPUT AND LOUDSPEAKER NL4 CONNECTOR USING PINS 1+ / 1– ONLY (PINS 2+ / 2– NOT USED). OBSERVE POLARITY END–TO–END. NO SPLICES IN CONCEALED RUNS. TORQUE ALL TERMINALS PER MANUFACTURER SPEC. PROVIDE STRAIN RELIEF AND SERVICE LOOPS AT RACK AND SPEAKER LOCATIONS; APPLY DIELECTRIC GREASE AND WEATHER BOOTS AT EXTERIOR CONNECTORS. MAINTAIN SEPARATION FROM AC POWER/PDUS AND DATA CABLES. LABEL BOTH ENDS (E.G., "CH–3 TO C45–CENTER"). VERIFY CONTINUITY, POLARITY, AND FINAL LOAD WITHIN AMPLIFIER SPECIFICATION; SET CHANNEL LIMITER FOR APPROXIMATELY 700 W RMS PER LOUDSPEAKER PER MANUFACTURER RECOMMENDATION.

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