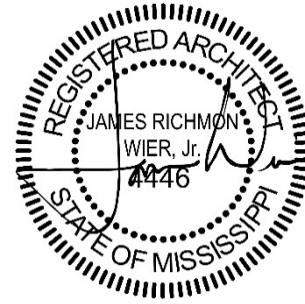




September 13, 2021

Pearl High School Indoor Training Facility
Pearl, Mississippi



ADDENDUM NO. 03

NOTICE TO ALL DOCUMENT HOLDERS:

The following additions, deletions, changes and clarifications to the drawings and specifications are to be included as part of the Contract Documents.

SPECIFICATIONS

ITEM NO. 01 11.3013 RESIDENTIAL APPLIANCES

Clarification: Items specified under this Section shall be Owner-Provided and Contractor-Installed.

DRAWINGS

ITEM NO. 02 C111 DEMOLITION PLAN

C131 GRADING PLAN

C141 UTILITY PLAN

C205 CIVIL DETAILS

C207 CIVIL DETAILS

Revise per the enclosed sheets

ITEM NO. 03 A102 FIELD HOUSE PLAN

Add the following **General Note** to Rooms Assistant 104 & Assistant 106:

"Provide millwork counter on three sides of room as indicated by floor plan. Counter shall be 2'-0" deep w/ cont. 4" backsplash". Finish Shall be Plastic Laminate. Brackets shall be heavy duty steel type spaced @ 2'-0" o.c. max. typical."

Add the following **General Note** to this Sheet:

"The following items shall be Owner-Purchased and Contractor-Installed:

Training Tables at Trainer 116

Walk in Cooler and Freezer units at Concessions 127

Commercial Food Service Equipment at Concessions 127

Ice Maker at Storage 124

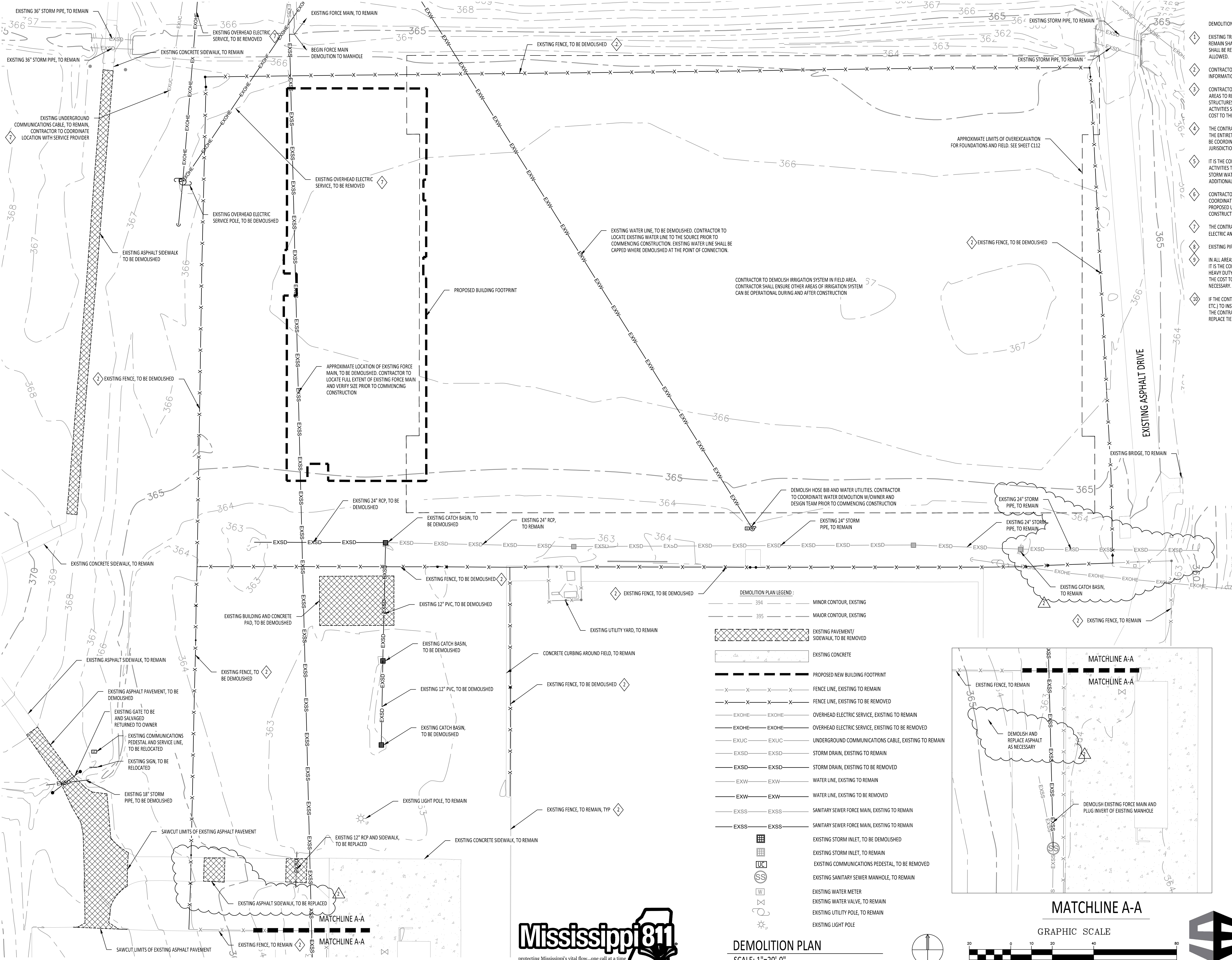
Compact Shelving Storage System at Storage 124"

- ITEM NO. 04 A401 EXTERIOR DETAILS**
Revise per the enclosed sheet
- ITEM NO. 05 A501 DOORS & WINDOWS**
Detail #s 1 & 3 Window Sill Details
Add General note to read as follows:
 “ Wooden Sills and Aprons shall be paint-grade Poplar and shall have a painted finish.”
- ITEM NO. 06 A702 ENLARGED PLANS & INTERIOR ELEVATIONS**
Drawing #4 Coach Lounge – Interior Elevation
Add General note to read as follows:
 “Refrigerator shall be Owner-Provided and Contractor installed.”
- Drawing #5 Coach Lounge – Interior Elevation 2**
Revise “Stained White Oak Wd Lockers, Typ.” To read: **“Millwork Lockers – See details”.**
- Drawing #6 Training Room Plan**
Add General note to read as follows:
 “Training Tables shown in Trainer 116 shall be Owner-Provided and Contractor installed.”
- Drawing #12 Team Room Plan**
Add General note to read as follows:
 “Fixed seating in Team Room 108 shall be Owner-provided and Contractor installed.”
- ITEM NO. 07 A703 ENLARGED PLANS & ELEVATIONS**
Add General Notes to read as follows:
 “Finish of player lockers shall be Plastic Laminate”.
 “Benches shall be Owner-Provided and Contractor Installed.”
 “Laundry Bins shall be Owner-Provided and Contractor Installed.”
- Drawing #16 Cubby Wall - Interior Elevation**
Add General Note to read as follows:
 “Finish of pass thru lockers shall be Plastic Laminate”.
- ITEM NO. 08 A801 MILLWORK GENERAL NOTES**
Detail #1 PHS Locker Details
Add General Note to read as follows:
 “Finish of player and coaches lockers shall be Plastic Laminate”.
- ITEM NO. 09 E1.2 PARTIAL LIGHTING PLAN – PART B**
E2.2 PARTIAL POWER PLAN – PART B
Revise per the enclosed sheets

Encl: Revised Sheet #s C111, C131, C141, C205, C207 (5 sheets)
 Revised Sheet A401
 Revised Sheets E1.2 & E2.2 (2 sheets)

cc: All Document Holders
 File 5820

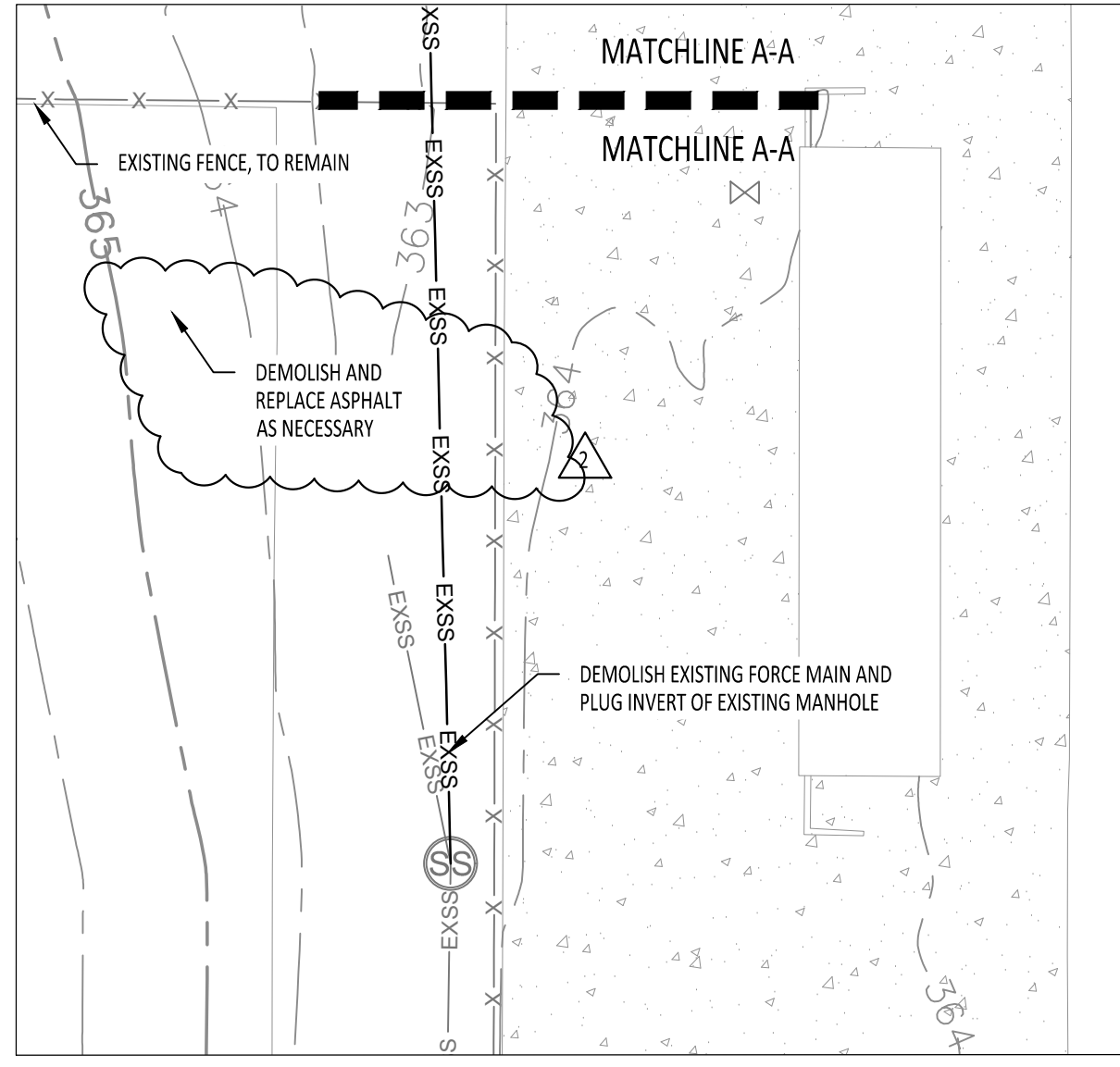




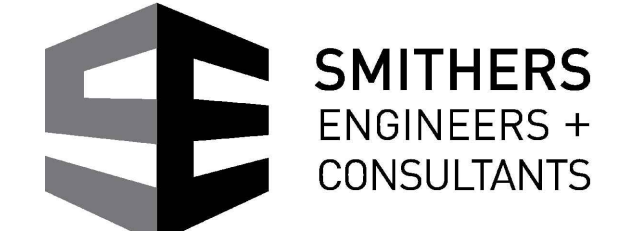
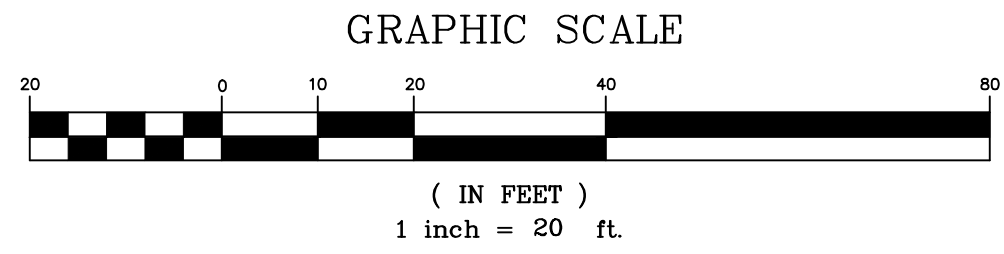
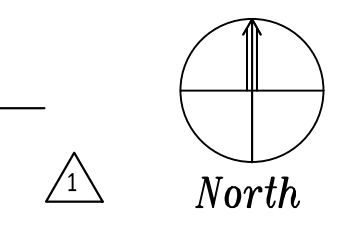
- DEMOLITION NOTES:
- 1 EXISTING TREE AND SHRUBS WITHIN PROJECT AREA THAT ARE NOT TO REMAIN SHALL BE REMOVED AND DISPOSED OF OFFSITE. TREE STUMPS SHALL BE REMOVED IN THEIR ENTIRETY. GRINDING OF STUMPS IS NOT ALLOWED.
 - 2 CONTRACTOR SHALL REFERENCE ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION PERTAINING TO FENCE DEMOLITION AND FINAL FENCE LAYOUT
 - 3 CONTRACTOR MUST USE CAUTION DURING DEMOLITION, PARTICULARLY IN AREAS TO RECEIVE CONCRETE OR ASPHALT DEMOLITION. ANY UTILITY, STRUCTURES, OR OTHER ITEMS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - 4 THE CONTRACTOR SHALL KEEP ALL UTILITIES OPERATIONAL THROUGHOUT THE ENTIRETY OF THE PROJECT. ANY INTERRUPTION IN UTILITY SERVICE SHALL BE COORDINATED WITH THE OWNER AND AUTHORITIES HAVING JURISDICTION PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
 - 5 IT IS THE CONTRACTOR'S RESPONSIBILITY TO PHASE CONSTRUCTION ACTIVITIES TO PROVIDE POSITIVE STORM WATER RUNOFF AT ALL TIMES. SEE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PLAN FOR ADDITIONAL INFORMATION ON EROSION CONTROL MEASURES REQUIRED.
 - 6 CONTRACTOR SHALL REFERENCE SITE, GRADING, AND UTILITY PLANS TO COORDINATE PAVEMENT AND UTILITY DEMOLITION AND CONNECTION TO PROPOSED UTILITIES, PAVEMENT, ETC. PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
 - 7 THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT FOR ALL ELECTRIC AND UNDERGROUND CABLE DEMOLITION AND/OR RELOCATION.
 - 8 EXISTING PIPE TO BE REMOVED SHALL BE REMOVED IN ITS ENTIRETY
 - 9 IN ALL AREAS WHERE THE CONTRACTOR MUST CROSS THE EXISTING ASPHALT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR THE PAVEMENT WITH A HEAVY DUTY ASPHALT PAVING SECTION. THE CONTRACTOR SHALL INCLUDE THE COST TO PERFORM THE ASPHALT REPAIRS IN HIS BASE BID IF DEEMED NECESSARY.
 - 10 IF THE CONTRACTOR MUST CROSS AN EXISTING ITEM (PAVEMENT, SIDEWALK, ETC.) TO INSTALL A NEW IMPROVEMENT (UTILITIES, STORM DRAINAGE, ETC.), THE CONTRACTOR SHALL INCLUDE IN HIS BASE BID, ALL COST REQUIRED TO REPLACE THE EXISTING ITEM IMPACTED BY CONSTRUCTION.

DEMOLITION PLAN LEGEND:

394	MINOR CONTOUR, EXISTING
395	MAJOR CONTOUR, EXISTING
[Hatched Box]	EXISTING PAVEMENT/ SIDEWALK, TO BE REMOVED
[Dotted Box]	EXISTING CONCRETE
[Dashed Line]	PROPOSED NEW BUILDING FOOTPRINT
[X-X-X-X]	FENCE LINE, EXISTING TO REMAIN
[X-X-X-X]	FENCE LINE, EXISTING TO BE REMOVED
EXOHE	OVERHEAD ELECTRIC SERVICE, EXISTING TO REMAIN
EXOHE	OVERHEAD ELECTRIC SERVICE, EXISTING TO BE REMOVED
EXUC	UNDERGROUND COMMUNICATIONS CABLE, EXISTING TO REMAIN
EXSD	STORM DRAIN, EXISTING TO REMAIN
EXSD	STORM DRAIN, EXISTING TO BE REMOVED
EXW	WATER LINE, EXISTING TO REMAIN
EXW	WATER LINE, EXISTING TO BE REMOVED
EXSS	SANITARY SEWER FORCE MAIN, EXISTING TO REMAIN
EXSS	SANITARY SEWER FORCE MAIN, EXISTING TO BE REMOVED
[SS Symbol]	EXISTING STORM INLET, TO BE DEMOLISHED
[SS Symbol]	EXISTING STORM INLET, TO REMAIN
[UC Symbol]	EXISTING COMMUNICATIONS PEDESTAL, TO BE REMOVED
[SS Symbol]	EXISTING SANITARY SEWER MANHOLE, TO REMAIN
[W Symbol]	EXISTING WATER METER
[W Symbol]	EXISTING WATER VALVE, TO REMAIN
[W Symbol]	EXISTING UTILITY POLE, TO REMAIN
[W Symbol]	EXISTING LIGHT POLE



DEMOLITION PLAN
SCALE: 1"=20'-0"



PEARL HIGH SCHOOL INDOOR TRAINING FACILITY

PEARL PUBLIC SCHOOL DISTRICT
500 PIRATES COVE
PEARL, MS 39208



WED 25 AUG 2021

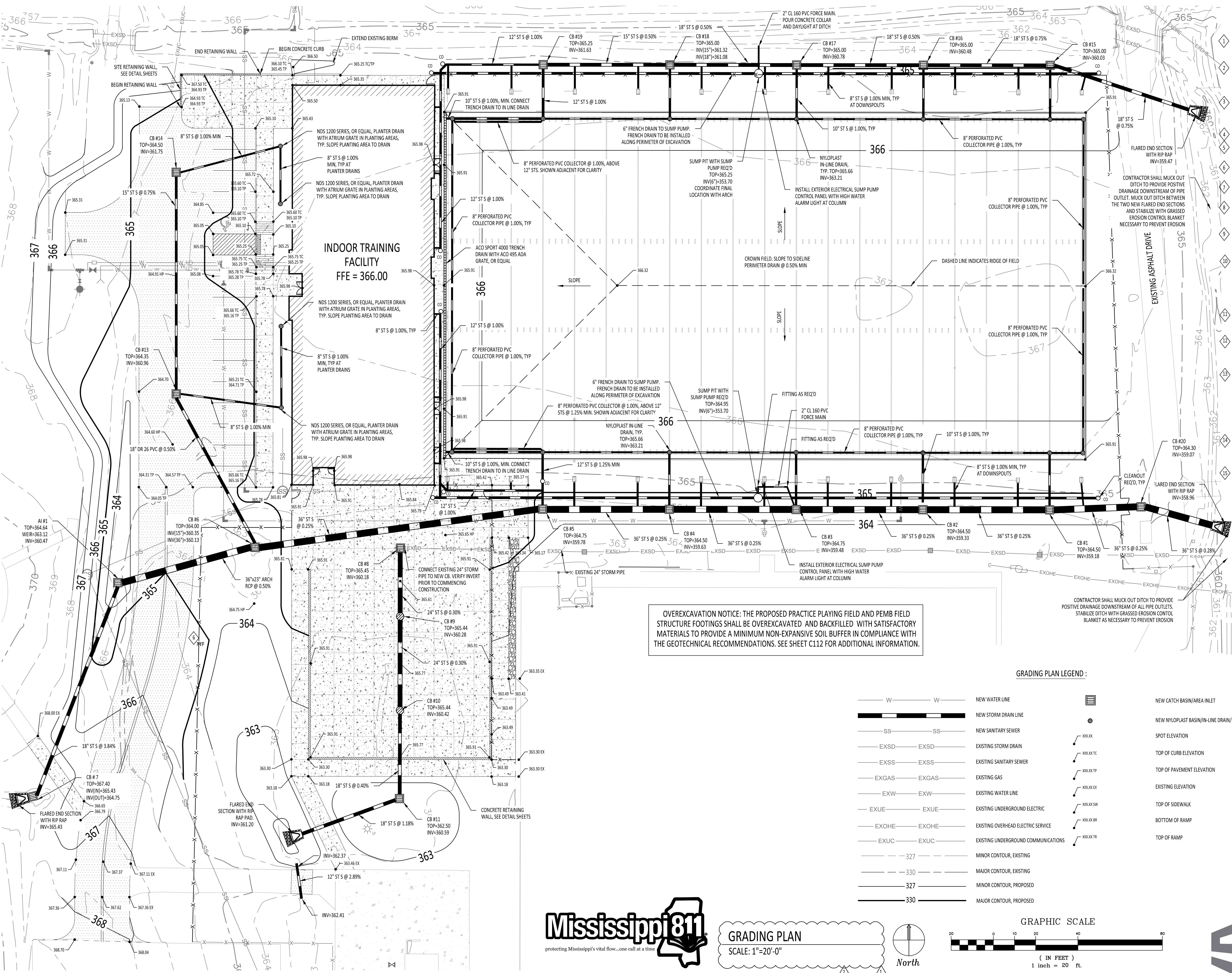
CONSTRUCTION DOCUMENTS

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2	MON 13 SEP 2021	





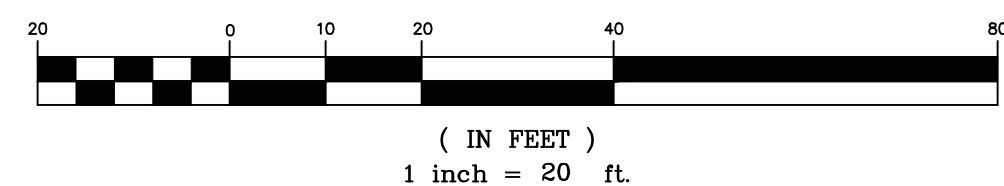
- GRADING NOTES:
- 1. CONTRACTOR SHALL GRADE AREA AROUND NEW CATCH BASINS TO ENSURE POSITIVE STORM WATER DISCHARGE FROM THE DRAINAGE AREA UPSTREAM OF THE CATCH BASIN.
 - 2. ALL STORM SEWER (ST S) PIPE 12" AND LARGER SHALL BE CORRUGATED POLYETHYLENE (HP STORM), UNLESS NOTED OTHERWISE. ALL STORM PIPE 10" AND LESS SHALL BE SDR 26 PVC UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - 3. ALL ADA ROUTES SHALL MEET CITY OF PEARL AND ADA CODE REQUIREMENTS. LONGITUDINAL SLOPE ON ALL ADA ROUTES SHALL NOT EXCEED 1:20. TRANSVERSE SLOPES ON ALL ADA ROUTES SHALL NOT EXCEED 1:50.
 - 4. ELEVATION OF NEW EDGE OF PAVEMENT SHALL MATCH EXISTING.
 - 5. EXISTING SLOPES GREATER THAN 6:1 SHALL BE BENCHMARKED PRIOR TO PLACING FILL.
 - 6. AI #1 AN AREA INLET CONSTRUCTED PER THE AREA INLET DETAIL ON THE DETAIL SHEETS.
 - 7. CONSTRUCT 6" SHOULDER WITH 5% SLOPE ON EACH SIDE OF DRIVE. SEE PAVEMENT DETAILS FOR MORE INFORMATION.
 - 8. CONTRACTOR SHALL REFERENCE MEP SHEETS, THIS SET, FOR ADDITIONAL INFORMATION ON INSTALLATION AND CONNECTION OF ROOF DRAINS AND RAIN LEADERS.
 - 9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY INSPECTIONS, APPROVALS AND/OR CERTIFICATIONS REQUIRED BY CODES AND AUTHORITIES.
 - 10. CATCH BASINS SHALL BE MOOT TYPE SS-3 WITH EAST JORDAN IRON WORKS V-5726 GRATES OR APPROVED EQUAL. GRATES IN PEDESTRIAN AREAS SHALL BE ADA, HEEL PROOF GRATES. CB #9-#10 AND CB #15-#19 SHALL BE NYLOPLAST, OR EQUAL, WITH AN ADA, HEEL PROOF GRATE. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION. DRAINAGE STRUCTURE, SIZE AND PIPE CONNECTION SHALL BE SIZED TO ACCOUNT FOR SKEW OF PIPE.
 - 11. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AS SHOWN ON THIS SHEET. ANY WATER TRAPS WILL REQUIRE REMOVING AND REPLACING BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - 12. THE CONTRACTOR SHALL CLOSELY FOLLOW COMPACTION REQUIREMENTS FOR OPEN TRENCHES AS DESCRIBED IN THE PROJECT SPECIFICATIONS. COMPACTION TESTING REQUIREMENTS AND REPORTS SHALL BE PROVIDED TO THE OWNER AS NOTED IN THE SPECIFICATIONS.
 - 13. EXISTING UNDERGROUND UTILITY LINES ARE SHOWN ON THE PLANS BASED UPON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. THE ENGINEER CANNOT AND DOES NOT WARRANT THAT THIS INFORMATION IS COMPLETE OR ACCURATE. THE CONTRACTOR MUST COORDINATE DIRECTLY WITH THE INVOLVED UTILITY OWNERS TO HAVE THE UNDERGROUND UTILITY LINES FIELD VERIFIED PRIOR TO CONSTRUCTION. IF PROPOSED UTILITIES ARE FOUND IN CONFLICT WITH EXISTING UTILITIES, THE ENGINEER SHALL BE NOTIFIED AND THE PROPOSED UTILITIES SHALL BE INSTALLED IN A DESIGNATED LOCATION TO AVOID CONFLICT.
 - 14. TWO 45" FITTINGS SHALL BE INSTALLED WHERE STORM PIPES CONNECT AT 90°. CLEANOUTS, WHERE SHOWN, SHALL BE INSTALLED AT THE DOWNSTREAM 45° FITTING.
 - 15. CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT "PEARL HIGH SCHOOL INDOOR TRAINING FACILITY" PREPARED BY W GEOTECHNICAL AND TESTING, INC. DATED MARCH 2021 FOR ALL SUBGRADE PREPARATION AND PAVEMENT CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCY BETWEEN THE GEOTECHNICAL REPORT AND CONSTRUCTION DOCUMENTS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.

OVEREXCAVATION NOTICE: THE PROPOSED PRACTICE PLAYING FIELD AND PEMB FIELD STRUCTURE FOOTINGS SHALL BE OVEREXCAVATED AND BACKFILLED WITH SATISFACTORY MATERIALS TO PROVIDE A MINIMUM NON-EXPANSIVE SOIL BUFFER IN COMPLIANCE WITH THE GEOTECHNICAL RECOMMENDATIONS. SEE SHEET C112 FOR ADDITIONAL INFORMATION.

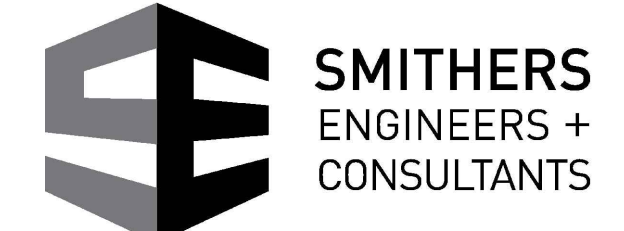
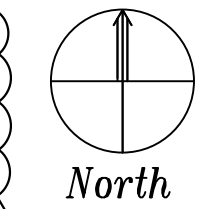
GRADING PLAN LEGEND :

	NEW WATER LINE		NEW CATCH BASIN/AREA INLET
	NEW STORM DRAIN LINE		NEW NYLOPLAST BASIN/IN-LINE DRAIN/PLANTER DRAIN
	NEW SANITARY SEWER		SPOT ELEVATION
	EXISTING STORM DRAIN		TOP OF CURB ELEVATION
	EXISTING SANITARY SEWER		TOP OF PAVEMENT ELEVATION
	EXISTING GAS		EXISTING ELEVATION
	EXISTING WATER LINE		TOP OF SIDEWALK
	EXISTING UNDERGROUND ELECTRIC		BOTTOM OF RAMP
	EXISTING OVERHEAD ELECTRIC SERVICE		TOP OF RAMP
	EXISTING UNDERGROUND COMMUNICATIONS		
	MINOR CONTOUR, EXISTING		
	MAJOR CONTOUR, EXISTING		
	MINOR CONTOUR, PROPOSED		
	MAJOR CONTOUR, PROPOSED		

GRAPHIC SCALE



GRADING PLAN
SCALE: 1"=20'-0"



PEARL HIGH SCHOOL INDOOR TRAINING FACILITY

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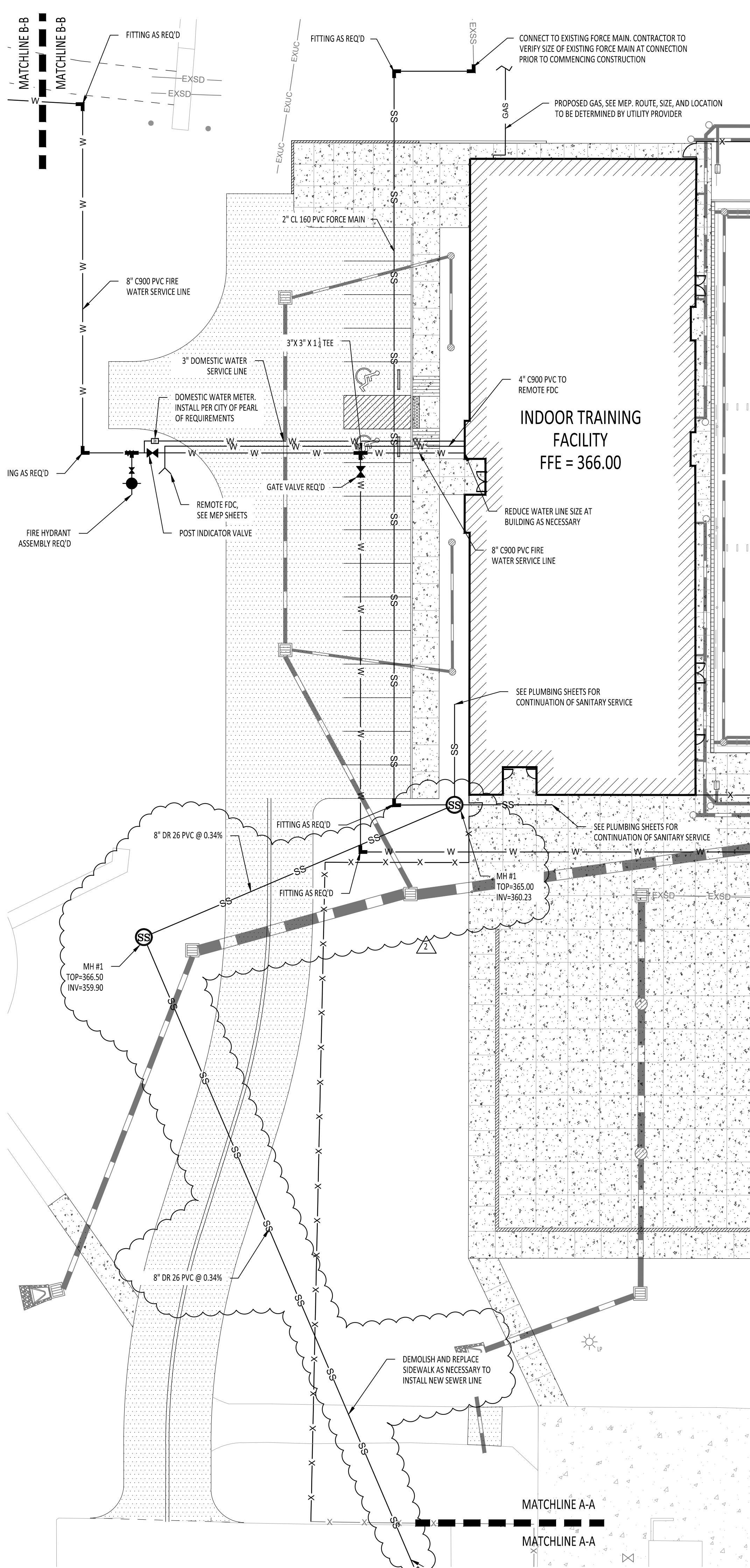


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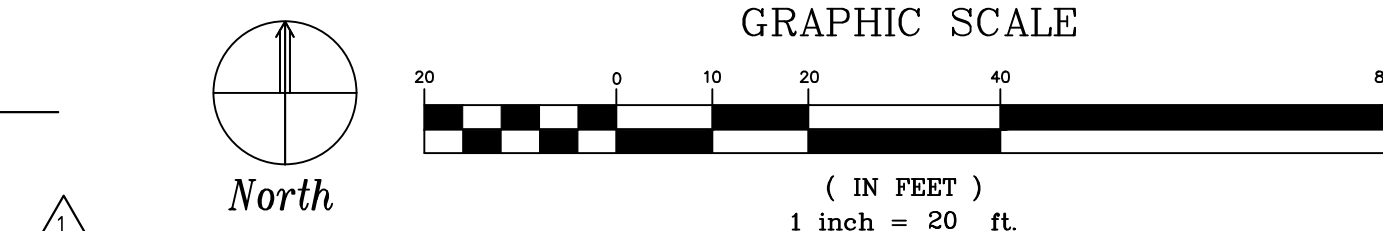
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UTILITY PLAN
SCALE: 1"=20'-0"



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DOCUMENTS

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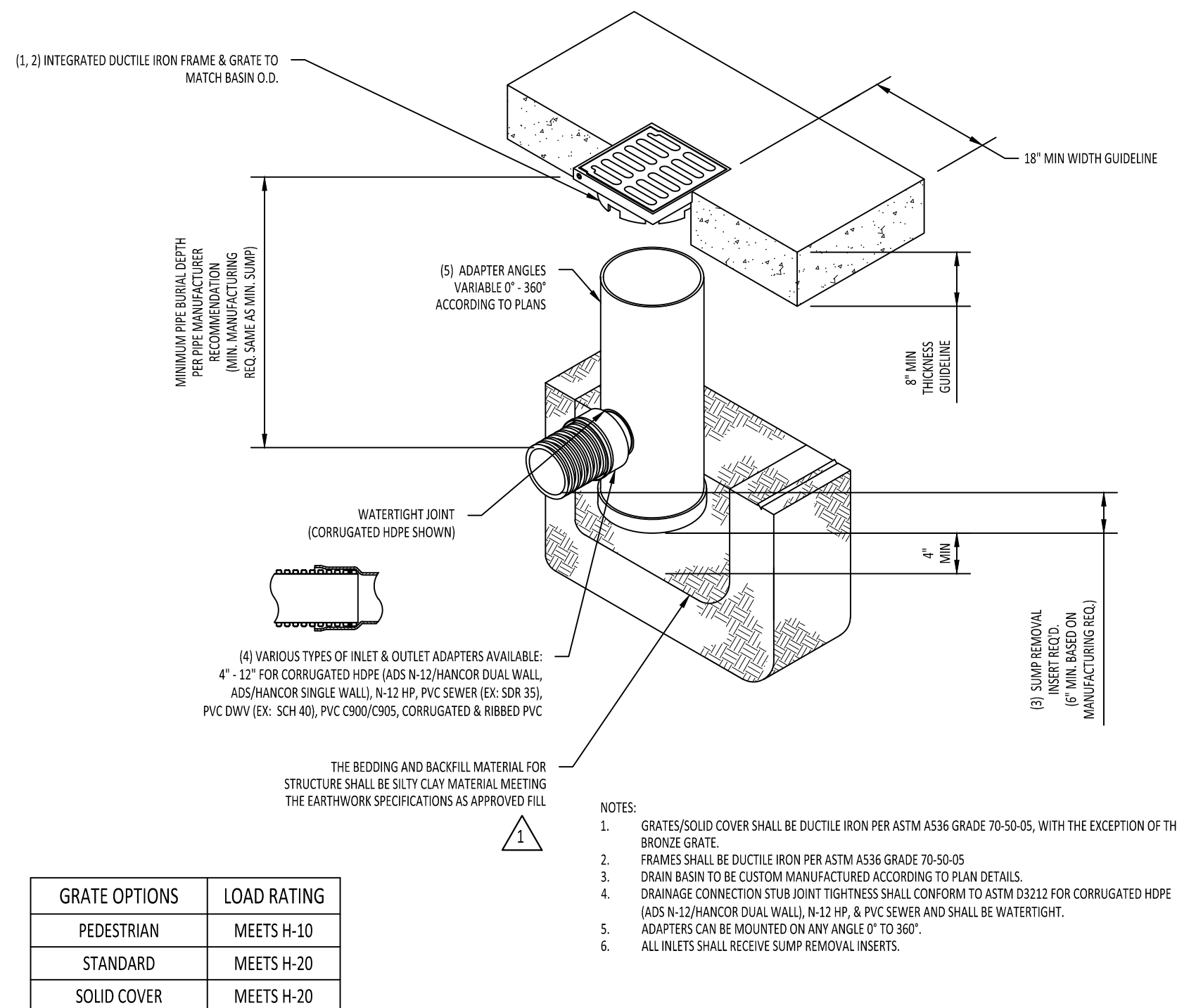
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- EXISTING UNDERGROUND UTILITY LINES ARE SHOWN ON THE PLANS BASED UPON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. THE ENGINEER CANNOT AND DOES NOT WARRANT THAT THIS INFORMATION IS COMPLETE OR ACCURATE. THE CONTRACTOR MUST COORDINATE DIRECTLY WITH THE INVOLVED UTILITY OWNERS TO HAVE THE UNDERGROUND UTILITY LINES FIELD VERIFIED PRIOR TO CONSTRUCTION. IF PROPOSED UTILITIES ARE FOUND IN CONFLICT WITH EXISTING UTILITIES, THE ENGINEER SHALL BE NOTIFIED AND THE PROPOSED UTILITIES SHALL BE INSTALLED IN A DESIGNATED LOCATION TO AVOID CONFLICT. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR ACTIVE UTILITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY INSPECTIONS, APPROVALS AND/OR CERTIFICATIONS REQUIRED BY CODES AND AUTHORITIES.
- CONTRACTOR SHALL MAINTAIN A 10' HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN WATER, STORM AND SANITARY SEWER.
- CONTRACTOR SHALL NOT OPEN, TURN OFF, INTERFERE WITH OR ATTACH ANY PIPE OR HOSE TO OR TAP ANY WATER MAIN OR OTHER UTILITIES BELONGING TO THE UTILITY AUTHORITY UNLESS DULY AUTHORIZED TO DO SO BY THE UTILITY AUTHORITY. ANY ADVERSE OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE LIABILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL REPAIR SIDEWALK PER SIDEWALK DETAIL TO MATCH EXISTING WIDTH WHERE UTILITY CROSSING IS REQ'D. CONTRACTOR SHALL ENSURE A SMOOTH CONNECTION BETWEEN THE NEW AND EXISTING SIDEWALK.
- ALL NEW UTILITIES INSTALLED AS A PART OF THIS PROJECT SHALL BE INSTALLED WITH TRACER WIRE.
- ALL NEW DUCTILE IRON FITTINGS (TEES, ELBOWS, VALVES, ETC.) TO BE INSTALLED USING MEGA-LUG RESTRAINT GLANDS.
- CONTRACTOR SHALL VERIFY DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER OF ANY CONFLICTS WITH THE DEPTH OF THE EXISTING UTILITIES AND PROPOSED UTILITIES PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
- ALL DOMESTIC WATER SERVICE LINES SHALL BE HDPE PRESSURE CLASS 200 WATER LINE. ALL FIRE WATER LINES SHALL BE DR 18 C900 PVC UNLESS NOTED OTHERWISE.
- PRIOR TO THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL TEST THE SANITARY SEWER SYSTEM PER THE TECHNICAL SPECIFICATIONS AND ANY ADDITIONAL TESTING REQ'D BY THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TESTING REQUIREMENTS WITH THE CITY AND ENSURING ALL NEW SANITARY SEWER ITEMS MEET THOSE REQUIREMENTS.
- CONTRACTOR SHALL REFERENCE THE ELECTRICAL PLANS, THIS SET, FOR ALL INFORMATION REGARDING THE ELECTRICAL SITE LAYOUT.
- STEEL CASING PIPE SHALL BE ASTM A 252, GRADE 2 WITH SCHEDULE 40 MINIMUM WALL THICKNESS. CASING SPACERS SHALL BE MODEL SS18 DESIGNED AND MANUFACTURED BY ADVANCE PRODUCTS & SYSTEMS OR APPROVED EQUAL.
- ALL TRENCHES TO BE BACKFILLED AND COMPACTED TO 98% STANDARD PROCTOR DENSITY (ASTM D698). REFER TO THE TECHNICAL SPECIFICATIONS FOR ADDITIONAL COMPACTION REQUIREMENTS.
- CONTRACTOR SHALL MAINTAIN A 3' CLEARANCE AROUND ALL FIRE HYDRANTS. NOTIFY THE ARCHITECT PRIOR TO COMMENCING CONSTRUCTION IF CLEARANCE CAN NOT BE MAINTAINED.
- NEW HDPE GAS SERVICE LINE SHALL MEET ALL NFPA 58 AND STATE OF MISSISSIPPI STANDARDS. SEE TYPICAL TRENCHING DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION PERTAINING TO LAYING OF NEW GAS LINES.
- THE CONTRACTOR SHALL INCLUDE IN HIS BASE BID ALL WORK REQUIRED TO PROVIDE WATER SERVICE TO THE PROPOSED NEW BUILDING AS SHOWN ON THE BID DOCUMENTS. THIS INCLUDES ALL REQUIREMENTS RELATED TO WATER TAPPING AND WATER METERING. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH THE WATER UTILITY PROVIDER PRIOR TO COMMENCING CONSTRUCTION.

PEARL HIGH
SCHOOL
INDOOR
TRAINING
FACILITY

PEARL PUBLIC
SCHOOL DISTRICT
500 PIRATES COVE
PEARL, MS 39208

NYLOPLAST DRAINAGE BASIN



GRATE OPTIONS	LOAD RATING
PEDESTRIAN	MEETS H-10
STANDARD	MEETS H-20
SOLID COVER	MEETS H-20

2
C205 NYLOPLAST DRAINAGE STRUCTURE
SCALE: NOT TO SCALE

SPORT 4000

GENERAL:
THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE SYSTEM 4000 CHANNEL SYSTEM AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC., OR EQUAL.

MATERIALS:
CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:
COMPRESSIVE STRENGTH: 14,000 PSI
FLEXURAL STRENGTH: 4,000 PSI
TENSILE STRENGTH: 1,500 PSI
WATER ABSORPTION: 0.07 %
FROST PROOF: YES
DILUTE ACID AND ALKALI RESISTANT: YES
B117 SALT SPRAY TEST COMPLIANT: YES

THE SYSTEM SHALL BE 4" (100mm) NOMINAL INTERNAL WIDTH AND A 6.1" (155mm) OVERALL WIDTH. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

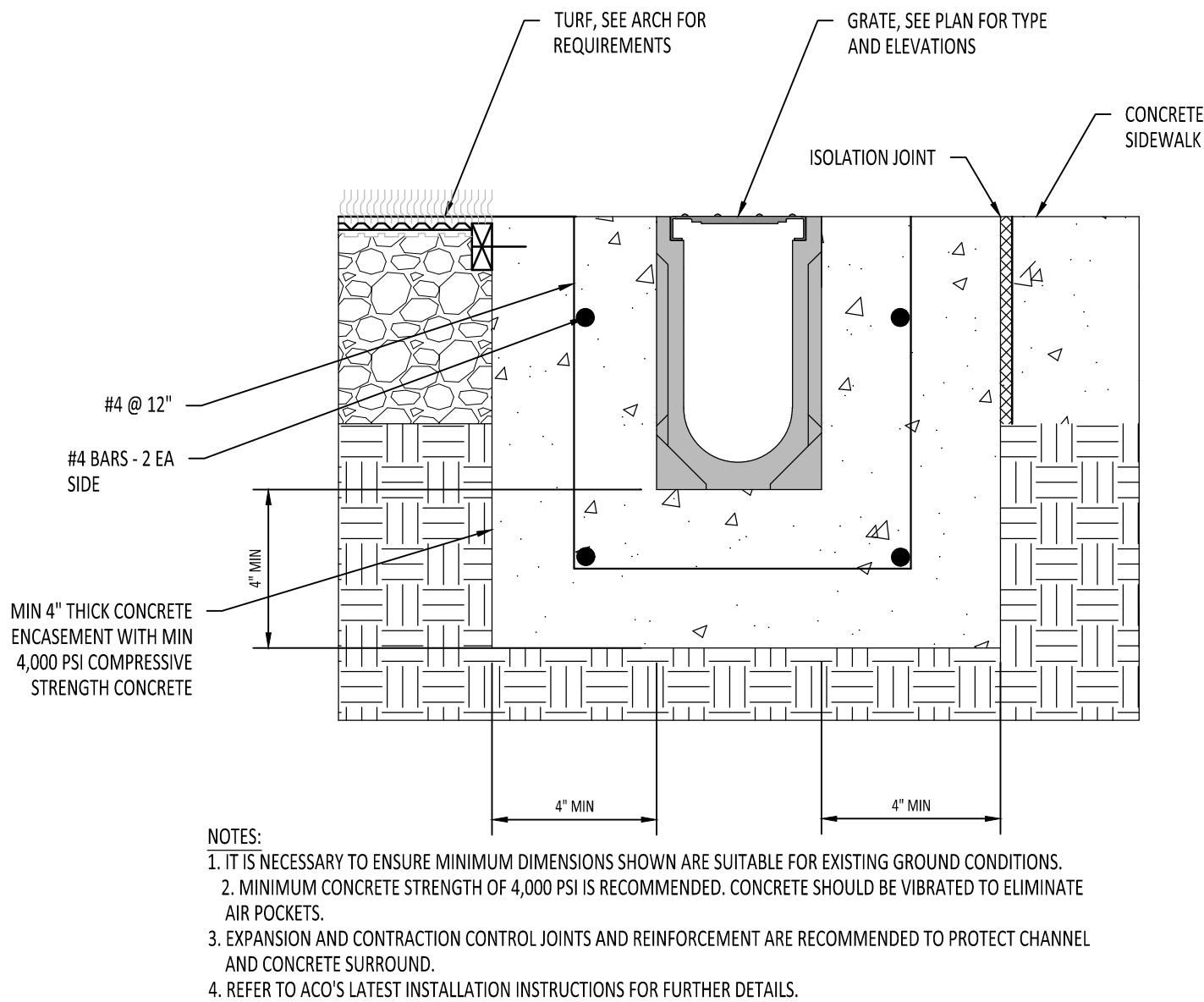
4002 CHANNEL: INVERT DEPTH - 4.65"
4010 CHANNEL: INVERT DEPTH - 6.54"
4020 CHANNEL: INVERT DEPTH - 8.90"
4030 CHANNEL: INVERT DEPTH - 11.26"

STANDARD ACO DRAIN, OR EQUAL, GRATES AND LOCKING DEVICES ARE USED, SEE SEPARATE SPECIFICATION SHEETS FOR INFORMATION.

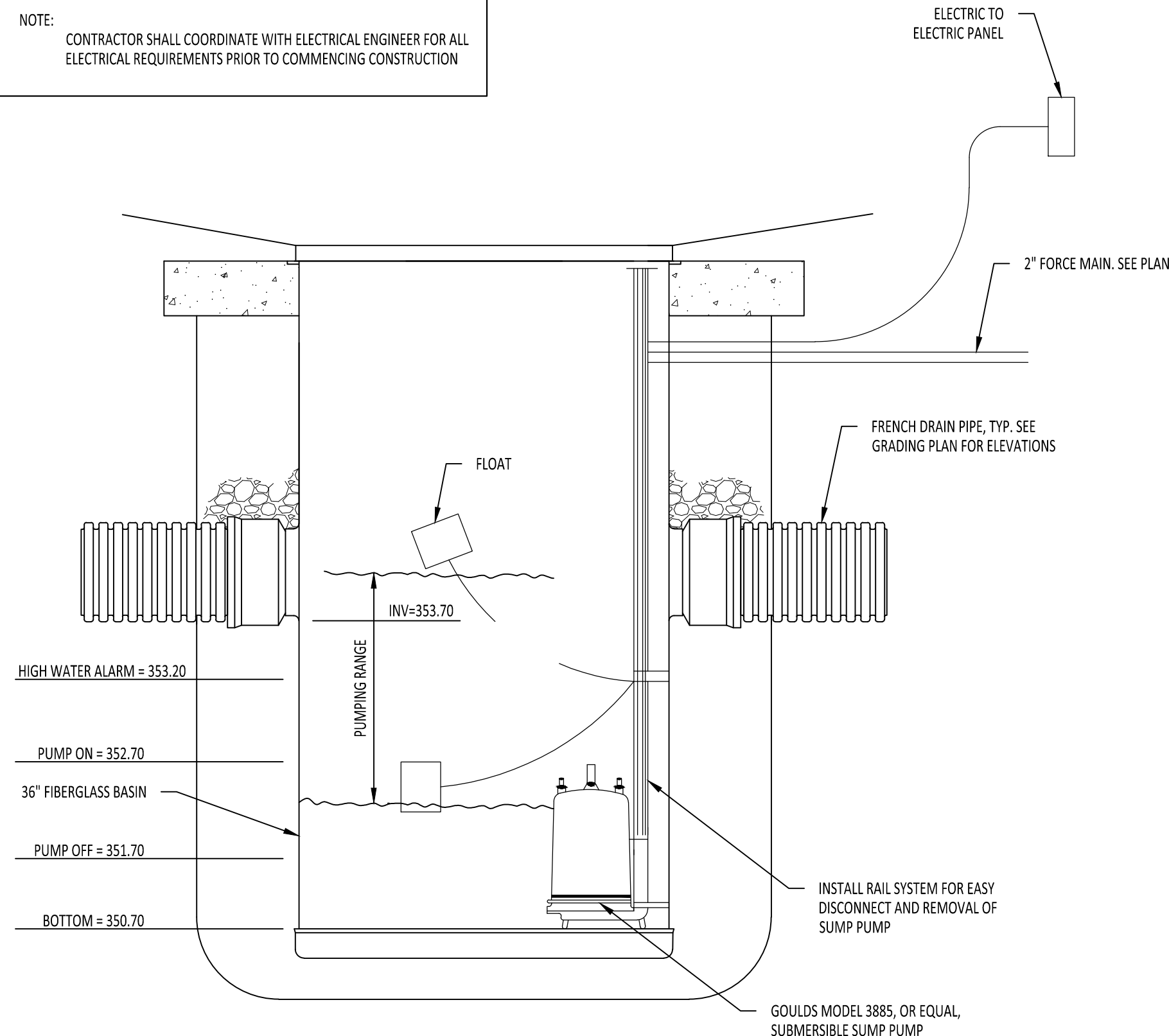
THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC., OR EQUAL.

THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

REFER TO PLANS FOR TRENCH AND CATCH BASIN LOCATION.

1
C205 TRENCH DRAIN DETAIL
SCALE: NOT TO SCALE

NOTE:
CONTRACTOR SHALL COORDINATE WITH ELECTRICAL ENGINEER FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO COMMENCING CONSTRUCTION



- NOTES:
- INSTALL ELECTRICAL PANEL WITH HIGH WATER ALARM LIGHT AT EACH LOCATION, TYP.
 - CONTRACTOR SHALL PERFORM DRAWDOWN TESTING AND OTHER TESTING AS NECESSARY TO ENSURE PUMP SYSTEM IS PERFORMING PROPERLY PRIOR TO CONSTRUCTION COMPLETION

3
C205 SUBMERSIBLE EFFLUENT PUMP DETAIL
SCALE: NOT TO SCALE

SUBMERSIBLE EFFLUENT PUMPS SPECIFICATIONS

GENERAL: FURNISH AND INSTALL ONE GOULDS PUMPS, MODEL 3885, OR EQUAL SUBMERSIBLE EFFLUENT PUMP(S), 1/2 HP, SINGLE PHASE, 115 VOLTS, 60 HZ, PUMP(S) RATED FOR 45 GPM AT 25 FT. TOTAL DYNAMIC HEAD. COORDINATE ELECTRIC WITH ELECTRICAL ENGINEER.

QUALIFICATIONS: ALL PUMP MANUFACTURERS MUST BE PRE-QUALIFIED BY THE ENGINEER IN ORDER TO QUALIFY AS ACCEPTABLE MANUFACTURERS. PRE-QUALIFICATION SHALL BE NO LATER THAN TWO(2) WEEKS PRIOR TO PUBLISHED BID DATE FOR THIS PROJECT.

PUMP DESIGN: PUMPS SHALL HAVE 2 INCH NPT INTEGRAL VERTICAL DISCHARGE AND SHALL BE CAPABLE OF HANDLING EFFLUENT CONTAINING NON-ABRASIVE 3/4 INCH MAXIMUM SOLIDS.

MECHANICAL SHAFT SEALS: THE MOTOR SHALL BE PROTECTED BY A MECHANICAL SHAFT SEAL MOUNTED ON THE PUMP SHAFT. THE MECHANICAL SEAL SHALL BE CONSTRUCTED OF A SILICON CARBIDE VS. SILICON CARBIDE SEALING FACES. THE UPPER MECHANICAL SEAL SHALL BE TENSIONED BY AN INDEPENDENT SPRING SYSTEM CONSTRUCTED OF SERIES 300 STAINLESS STEEL METAL COMPONENTS AND BUNA-N ELASTOMERS.

IMPELLER: THE IMPELLER SHALL BE SEMI-OPEN WITH EJECTOR (PUMP OUT) VANES ON TOP OF THE IMPELLER FOR PROTECTION OF THE LOWER MECHANICAL SEAL AND HYDRAULIC BALANCE. DUE TO DESIGN, ONLY SINGLE PLANE SPIN BALANCING SHALL BE REQUIRED FOR SMOOTH OPERATION.

THE IMPELLER SHALL BE THREADED TO THE SOLID SERIES 400 STAINLESS STEEL SHAFT. PUMPS PROVIDED FOR THREE PHASE SERVICE SHALL BE SECURED BY A THREAD-LOCKING FEATURE WHICH WILL PREVENT THE IMPELLER FROM LOOSENING DURING SHORT PERIODS OF REVERSE ROTATION AS MIGHT OCCUR WHEN ROTATION DIRECTION IS BEING VERIFIED OUTSIDE THE INSTALLATION.

CASING: THE CASING SHALL BE CAST FROM ASTM A48 CLASS 25 GRAY CAST IRON OF SUFFICIENT THICKNESS TO WITHSTAND 1.5 TIMES THE SHUT OFF PRESSURE GENERATED BY THE LARGEST IMPELLER AVAILABLE FOR THIS MODEL IN ACCORDANCE WITH CURRENT REVISION OF THE HYDRAULIC INSTITUTE STANDARDS. THE DISCHARGE CONNECTION SHALL BE A STANDARD 2 INCH NPT SUITABLE FOR DIRECT CONNECTION TO THE STATION. PIPING, WITHOUT THE USE OF ANY EXTERNAL FITTING OR ADAPTERS FOR VERTICAL ORIENTATION OF THE DISCHARGE DIRECTION. INTEGRAL FEET OF CAST IRON SHALL BE MADE A PART OF THE CASING FOR ACCURATELY POSITIONING THE PUMP SUCTION OPENING AT THE CORRECT ELEVATION OFF THE SUMP FLOOR FOR GOOD PUMP DOWN CAPABILITY.

MAJOR CASTING MATERIALS: THE IMPELLER, CASING, BEARING/SEAL HOUSING AND MOTOR COVER SHALL BE OF ASTM A48 CLASS 25 HIGH QUALITY CAST IRON FOR STRENGTH AND LONG LIFE.

CORROSION PROTECTION: THE PUMP/MOTOR SHAFT WETTED-END SHALL BE SERIES 400 STAINLESS STEEL. BOTH INNER AND OUTER SURFACES OF CAST IRON SHALL BE ELECTROCOAT-PAINTED WITH THERMO-SETTING ACRYLIC ENAMEL BAKED 20 MINUTES AT 350 DEGREES F., AFTER CASTINGS ARE COMPLETELY MACHINED.

MOTOR: THE INTEGRAL MOTOR SHALL BE COMPLETELY SEALED FROM THE ENVIRONMENT BY USE OF A CIRCULAR CROSS SECTION O-RINGS ACCURATELY FITTED INTO MACHINED GROOVES WHICH SHALL PROVIDE DESIGNED COMPRESSION OF METAL TO METAL FITS. DESIGNS WHICH REQUIRE A SPECIFIC TORQUE ON THE CASING BOLTS OR WHICH REQUIRE RECTANGULAR GASKETS OR SEALING RINGS SHALL NOT BE ALLOWED. THE MOTOR SHALL BE RATED FOR CONTINUOUS DUTY UNDER FULL NAMEPLATE LOAD WHILE AT FULL SUBMERGENCE IN THE STATION. THE MOTOR SHALL BE PROVIDED AT THE SPECIFIC SITE CONDITIONS OF --- VOLTS, --PHASE, 60 HZ, AS REQUIRED. COORDINATE WITH ELECTRICAL ENGINEER

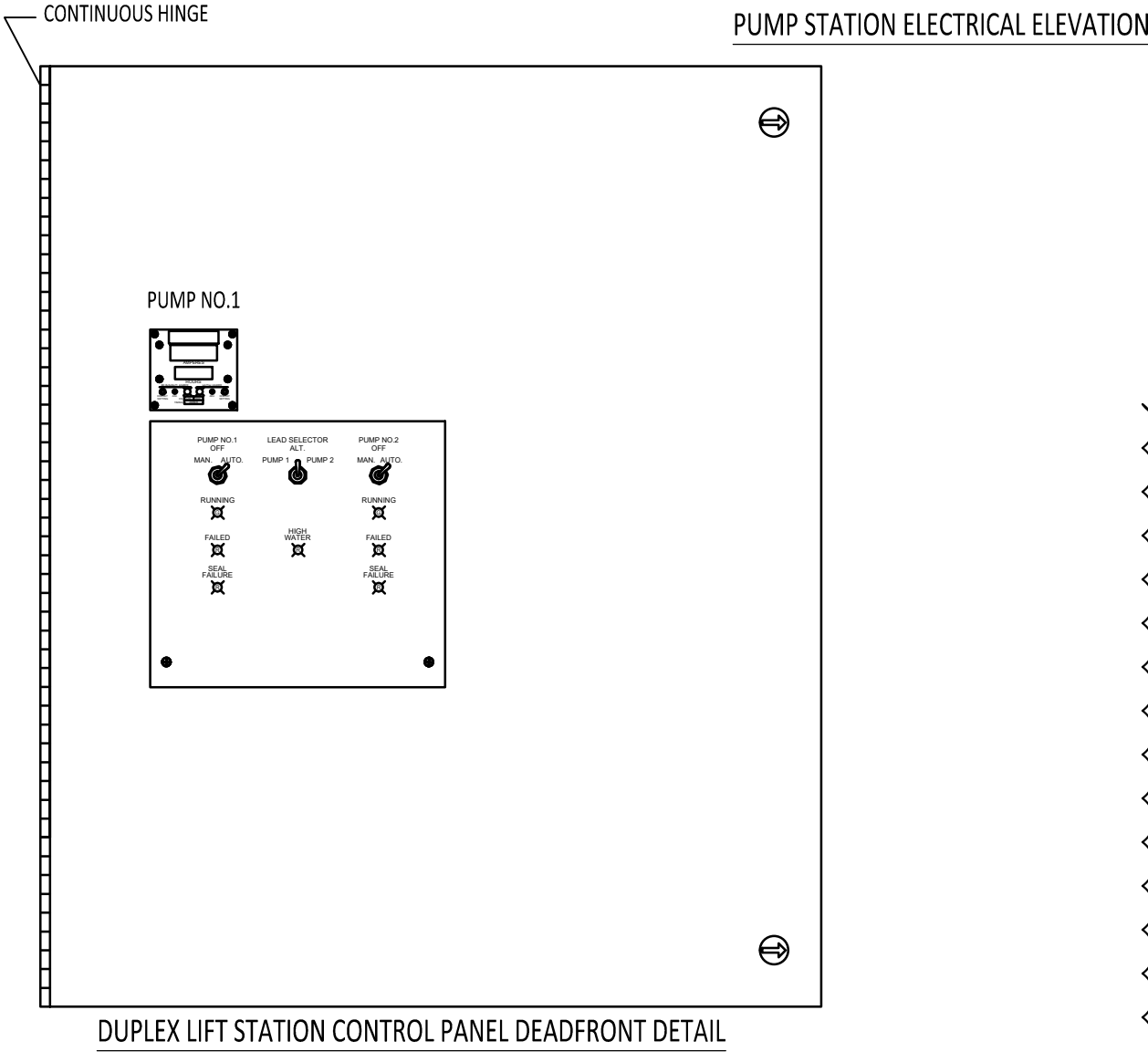
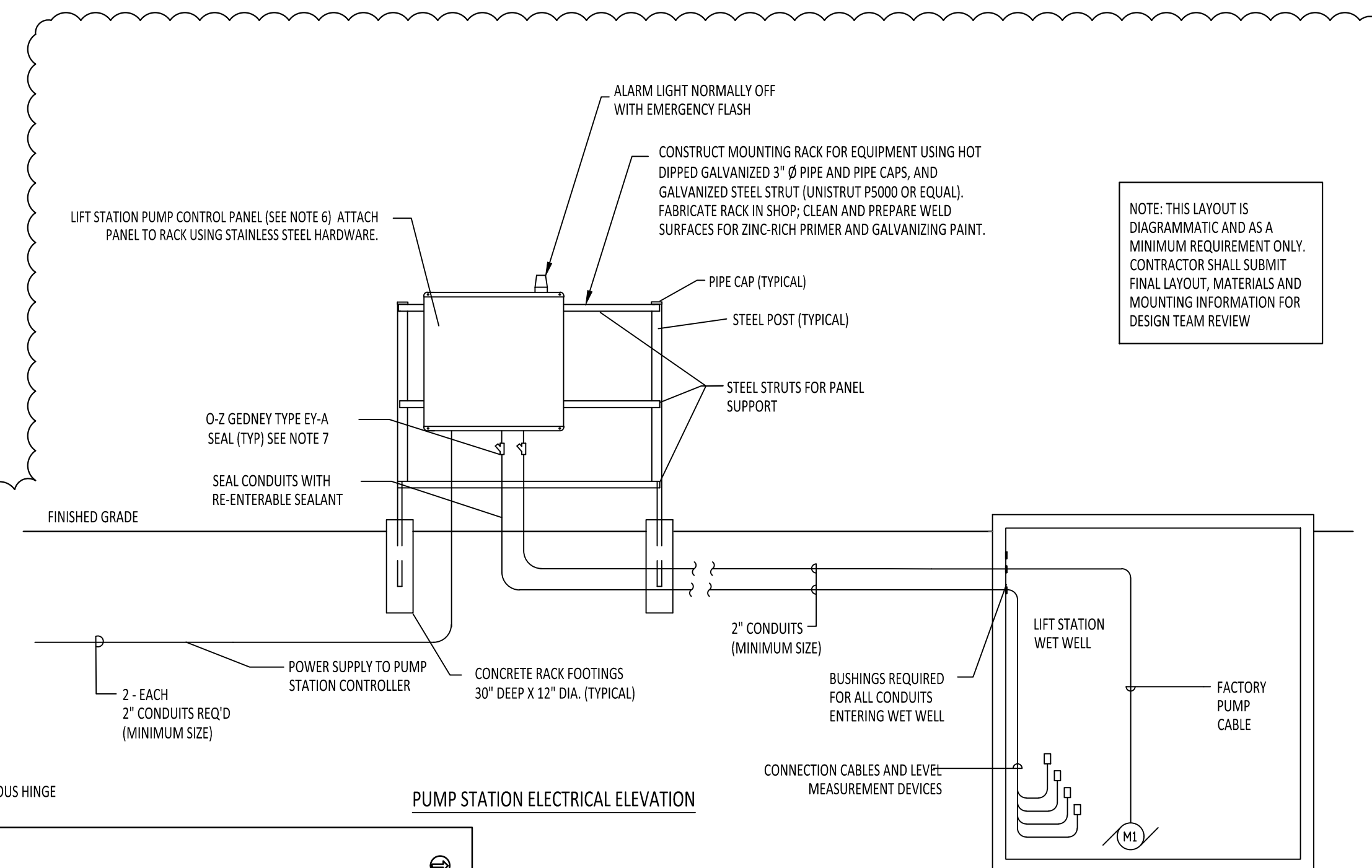
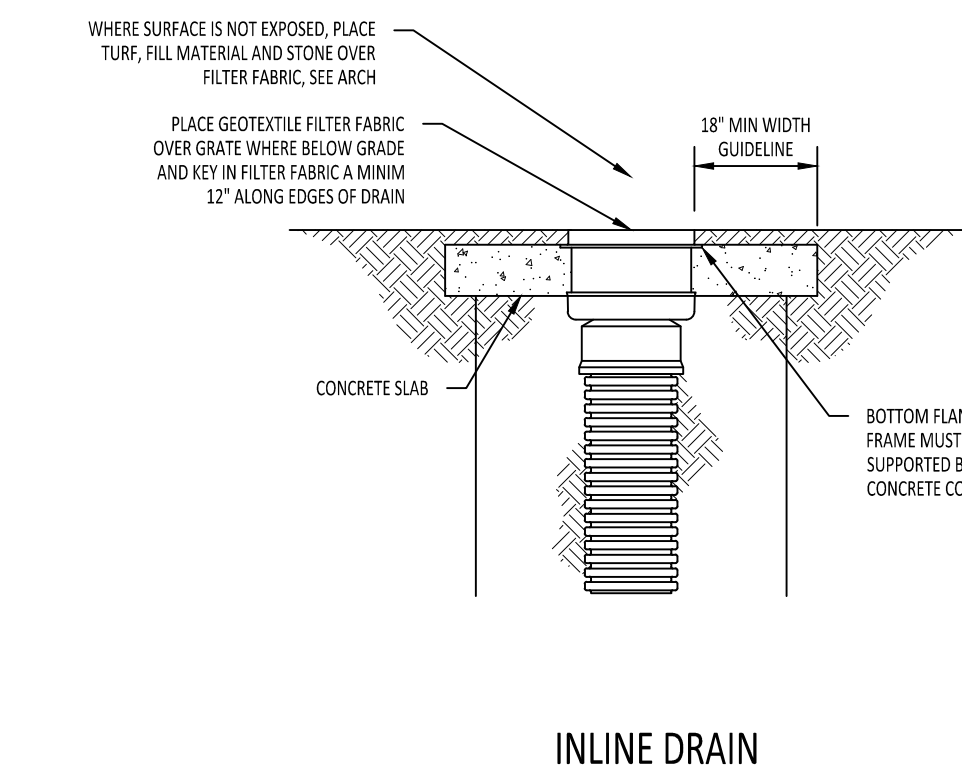
SINGLE PHASE MOTORS: SHALL BE CAPACITOR-START. ALL SINGLE PHASE MOTORS SHALL BE PROVIDED WITH THERMAL PROTECTION. SINGLE PHASE MOTORS SHALL HAVE AN ON WINDING SENSOR WITH AUTOMATIC RESET.

THREE PHASE MOTORS SHALL BE PROTECTED BY AMBIENT COMPENSATED QUICK-TRIP HEATERS, OR ADJUSTABLE MOTOR CIRCUIT PROTECTORS PROVIDED IN CONTROL. THE STATOR WINDING SHALL BE OPEN TYPE WITH CLASS B INSULATION SUITABLE FOR OPERATION IN CLEAN DIELECTRIC OIL FOR EFFICIENT HEAT TRANSFER AND LUBRICATION OF THE BALL BEARINGS. THE STATOR SHALL BE REGISTER FIT INTO THE BEARING HOUSING TO ENSURE POSITIVE ALIGNMENT, AND ISOLATED FOR EASE OF SERVICEABILITY. THE MOTOR SHALL BE PROVIDED WITH BALL TYPE ANTI-FRICTION BEARINGS WHICH SHALL SUPPORT THE HEAVY DUTY ROTOR SHAFT AND TO HANDLE ALL RADIAL AND AXIAL LOADS IMPOSED BY THE IMPELLER WHILE LIMITING SHAFT DEFLECTION AT THE MECHANICAL SEAL FACES. SLEEVE TYPE BEARINGS SHALL NOT BE CONSIDERED EQUAL AND, THEREFORE, SHALL NOT BE ALLOWED. THE BALL BEARINGS SHALL BE DESIGNED FOR A B-10 LIFE OF 30,000 HOURS MINIMUM. THE MOTOR SHALL BE DESIGNED AND TESTED TO WITHSTAND AN 18 DAY LOCKED-ROTOR OPERATION WITHOUT DAMAGE.

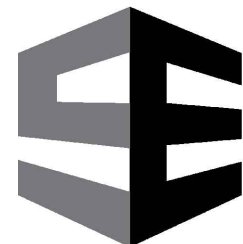
POWER CABLE: THE POWER CABLE SHALL BE SEALED AT THE MOTOR END AS IT ENTERS THE MOTOR CASING BY A TWO PART BARRIER TO MOISTURE INTRUSION. THE FIRST LINE OF DEFENSE SHALL BE THE COMPRESSION OF THE OIL AND CHEMICAL RESISTANT GROMMET WHICH SHALL SEAL THE OUTER JACKET OF THE POWER CORD. IN THE EVENT THAT THE OUTER JACKET OF THE POWER CORD SHOULD BECOME DAMAGED, THEN THE SECOND LINE OF DEFENSE SHALL BE THE EPOXY POURED ISOLATED CONDUCTORS WITHIN THE JACKETED CABLE ITSELF. THE INSULATION SHALL BE REMOVED FROM THE INDIVIDUAL CONDUCTORS AND THE EPOXY SHALL BE ALLOWED TO FORM A LEAK-PROOF SEAL AGAINST WICKING OF THE POWER CABLE BETWEEN THE OUTER JACKET AND THE INSULATION OF THE INDIVIDUAL CONDUCTORS. THE OUTER JACKET OF THE POWER CORD SHALL BE OIL RESISTANT AND WATER RESISTANT. THE POWER CABLE SHALL BE RATED FOR NEC SEVERE SERVICE "S", TYPE "STIOW" OR "STOW".

DO NOT INSTALL UNTIL SUBMITTAL HAS BEEN APPROVED. SUBMITTAL SHALL CONSIST OF:

- DIMENSIONS
- SINGLE LINE PUMP CURVE
- NAME AND LOCATION OF FACTORY AUTHORIZED DEALER AND SERVICE



- ELECTRICAL GENERAL NOTES**
- ALL CONDUITS SHALL BE RIGID ALUMINUM.
 - PROVIDE CONDUCTORS OF COPPER WITH TYPE THHN INSULATION.
 - COORDINATE WITH UTILITY COMPANY BEFORE THE START OF CONSTRUCTION. PROVIDE MATERIALS AND INSTALL ELECTRICAL SERVICE AND METERING IN ACCORDANCE WITH THE LOCAL ELECTRICAL UTILITY REQUIREMENTS.
 - COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS FOR SERVICE EQUIPMENT AND INSTALLATION.
 - CONNECT NEUTRAL TERMINAL IN SERVICE ENTRANCE DISCONNECTING DEVICE TO GROUND.
 - CONTROL PANEL ENCLOSURE SHALL BE RATED NEMA 4X AND MANUFACTURED OF TYPE 304 STAINLESS STEEL OR FRP, COMPLETE WITH HINGED COVER SIMILAR TO CONTROLS OF HOUSTON MODEL EP50-23D SIZE 18" x 16" OR APPROVED EQUAL. CONTRACTOR TO SUBMIT SMALLER SIZE WHERE APPLICABLE.
 - FILL ALL CONDUIT SEAL-OFF DEVICES IN ACCORDANCE WITH NEC ARTICLE 501.
 - ALL CONDUITS SHALL ENTER PANELS THROUGH THE BOTTOM OF THE PANELS.
 - ELECTRICAL EQUIPMENT SIZE AND RATING SHALL BE CONFIRMED WITH PUMP SUBMITTAL.

SMITHERS
ENGINEERS +
CONSULTANTS

WED 25 AUG 2021

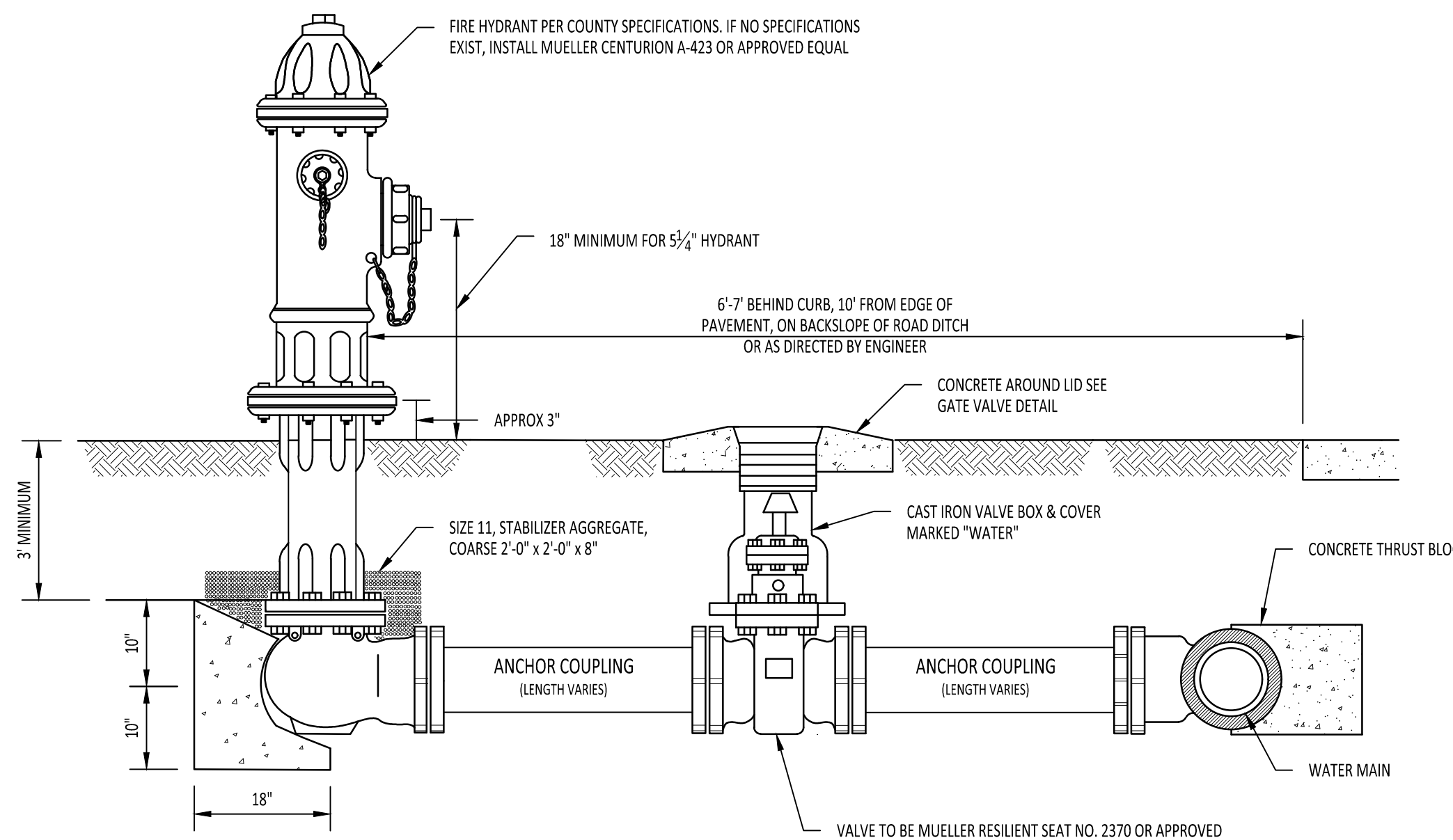
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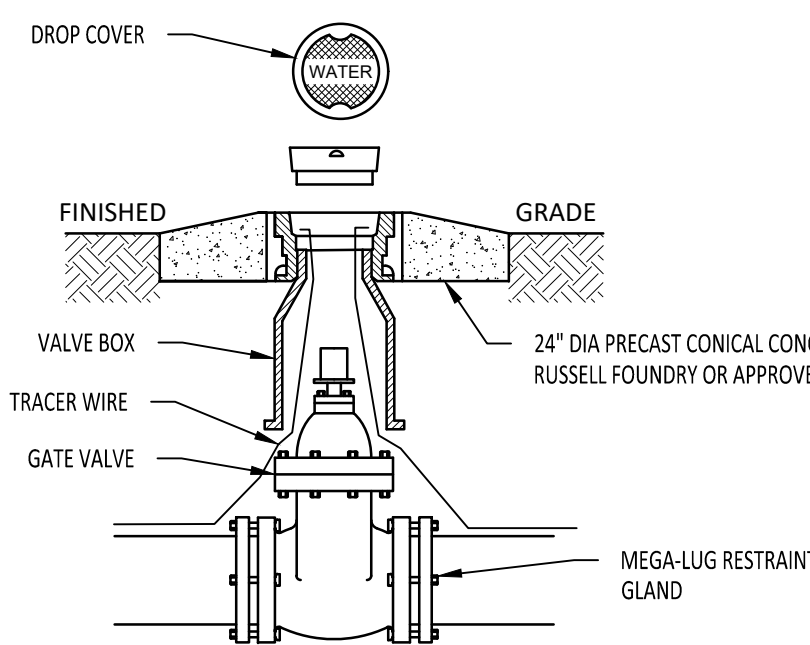
REVISIONS

NO.	DESCRIPTION	DATE
1	FRI 03 SEP 2021	
2	MON 13 SEP 2021	

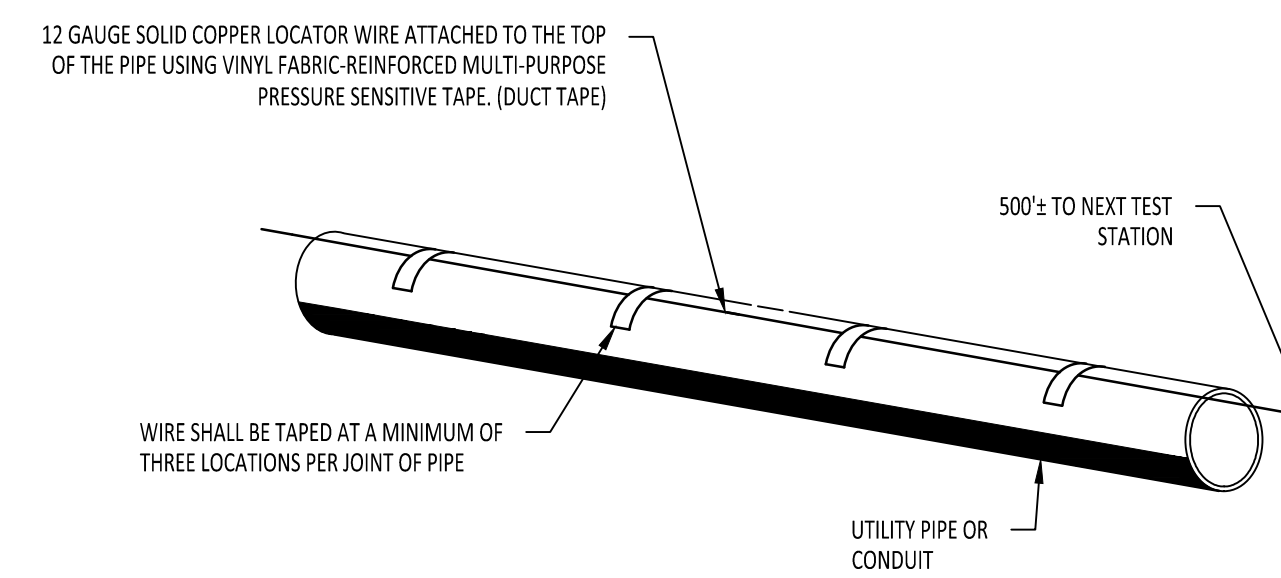
C205
CIVIL
DETAILS



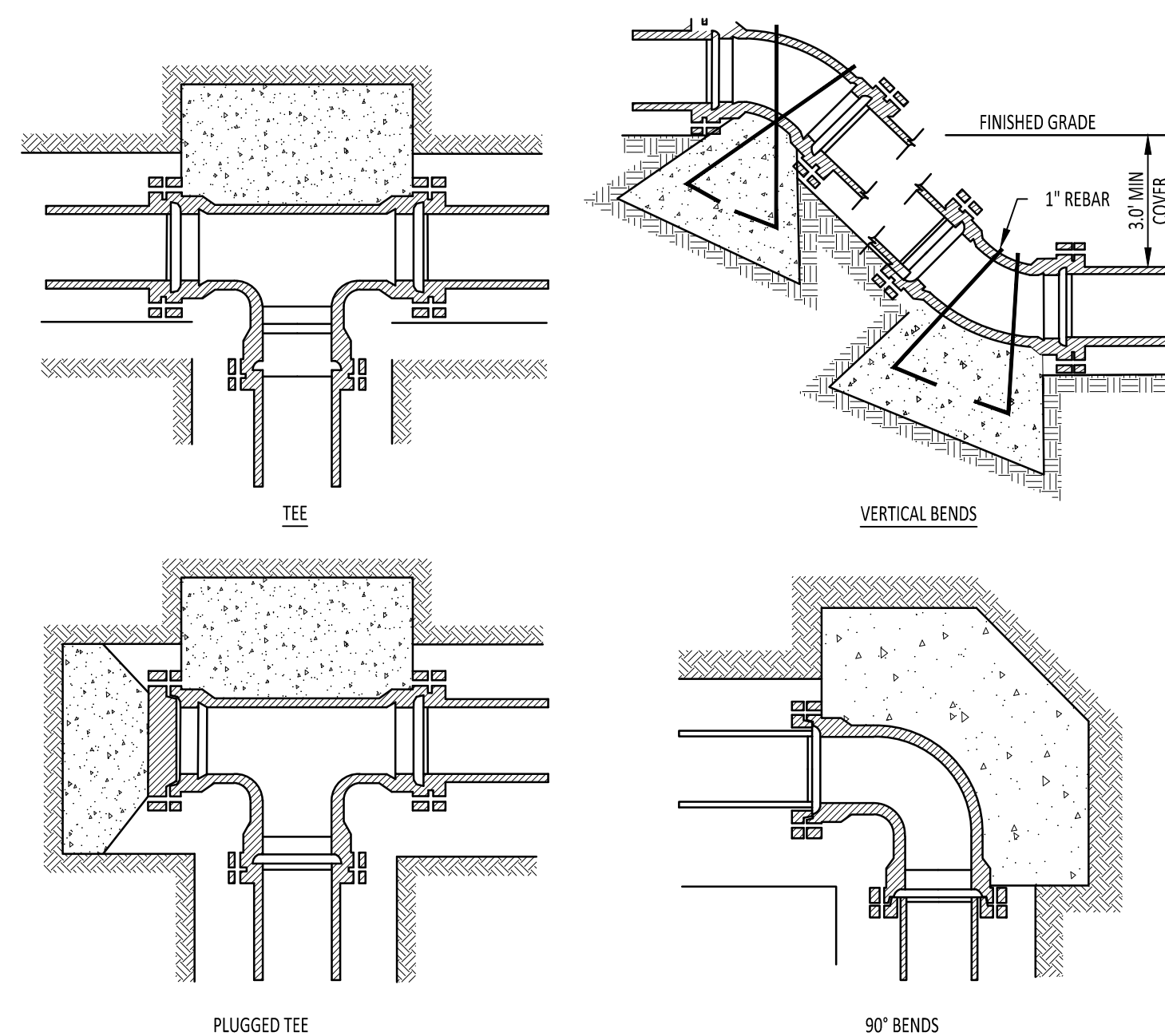
1 FIRE HYDRANT ASSEMBLY
C207 SCALE: NOT TO SCALE



2 GATE VALVE
C207 SCALE: NOT TO SCALE



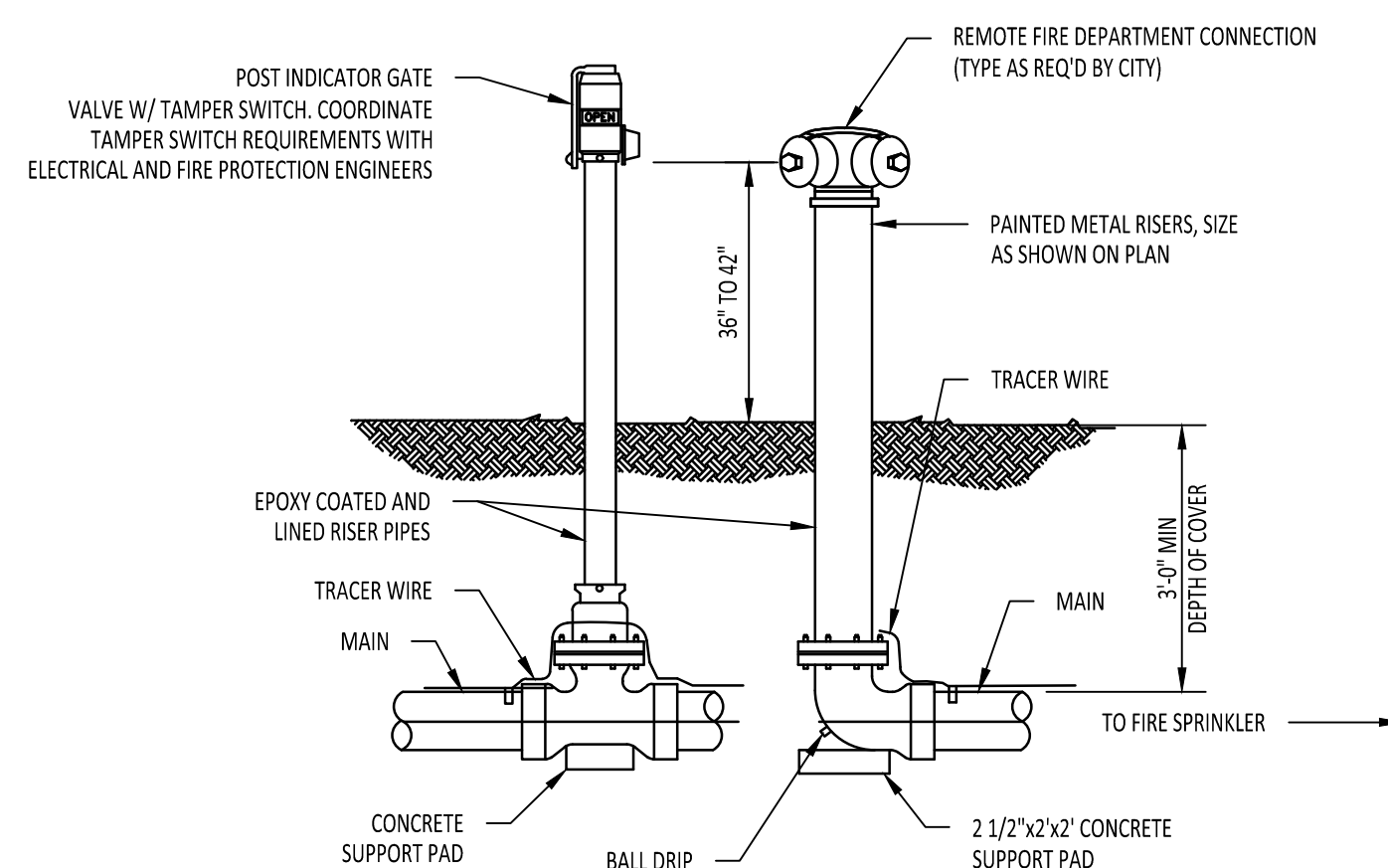
3 LOCATOR WIRE INSTALLATION
C207 SCALE: 1/2"=1'-0"



NOMINAL PIPE DIAMETER (IN.)	DEAD END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4	2.0	2.0	2.0	2.0	2.0
6	2.0	2.0	2.0	2.0	2.0
8	3.0	3.0	2.0	2.0	2.0
12	5.0	6.0	4.0	3.0	3.0
16	8.0	12.0	6.0	4.0	4.0
4	—	—	6.0 (2.2)	4.0 (1.5)	4.0 (1.5)
6	—	—	14.0 (5.2)	6.0 (2.2)	4.0 (1.5)
8	—	—	27.0 (1.0)	9.0 (3.3)	6.0 (2.2)
12	—	—	68.0 (2.5)	22.0 (8.0)	9.0 (3.3)
16	—	—	90. (3.33)	52.0 (1.9)	18.0 (.67)

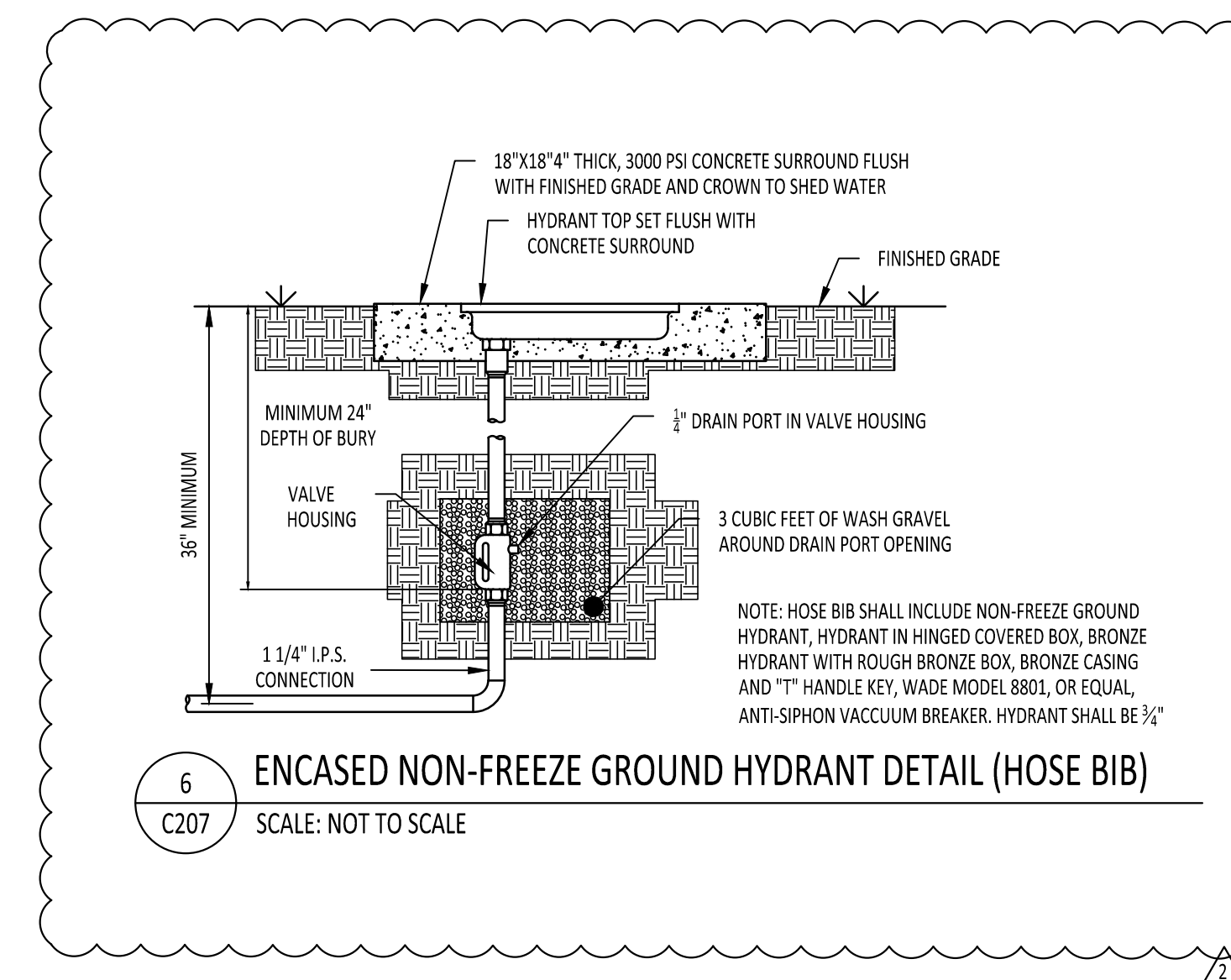
Volume of blocks including soil load CU.FT. (CU.YDS.)

4 THRUST BLOCKS FOR WATER MAINS
C207 SCALE: 1"=1'-0"

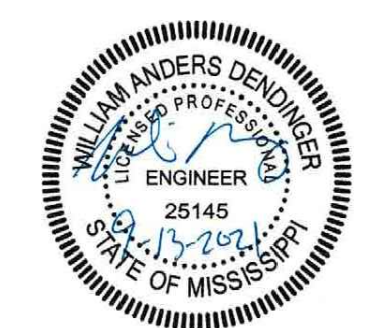


- NOTES:
1. LANDSCAPE PLANTING, WHEN FULLY GROWN, SHALL NOT OBSCURE VALVE OR FIRE DEPARTMENT CONNECTION (THREE FEET MINIMUM CLEARANCE REQ'D ON ALL SIDES).
 2. ALL UNDERGROUND BOLTS, NUTS AND WASHERS SHALL BE 316 STAINLESS STEEL.
 3. PROVIDE A MINIMUM OF 2 CY OF CLEAN 3/4" GRAVEL AROUND BALL DRIP VALVE.
 4. PROVIDE BOLLARD PROTECTION AS SHOWN ON THE PLANS.
 5. LOCATE A SINGLE SWING CHECK VALVE ON THE FDC LINE IMMEDIATELY INSIDE THE BUILDING TO PREVENT FLOW FROM THE FIRE SPRINKLER SYSTEM TO THE FDC.
 6. POST INDICATOR VALVE AND REMOTE FDC SHALL MEET ALL REQUIREMENTS OF NFPA 24 AND ANY ADDITIONAL REQUIREMENT OF THE AUTHORITY HAVING JURISDICTION.

5 REMOTE FIRE DEPT CONNECTION AND POST INDICATOR VALVE
C207 SCALE: NOT TO SCALE



6 ENCASED NON-FREEZE GROUND HYDRANT DETAIL (HOSE BIB)
C207 SCALE: NOT TO SCALE



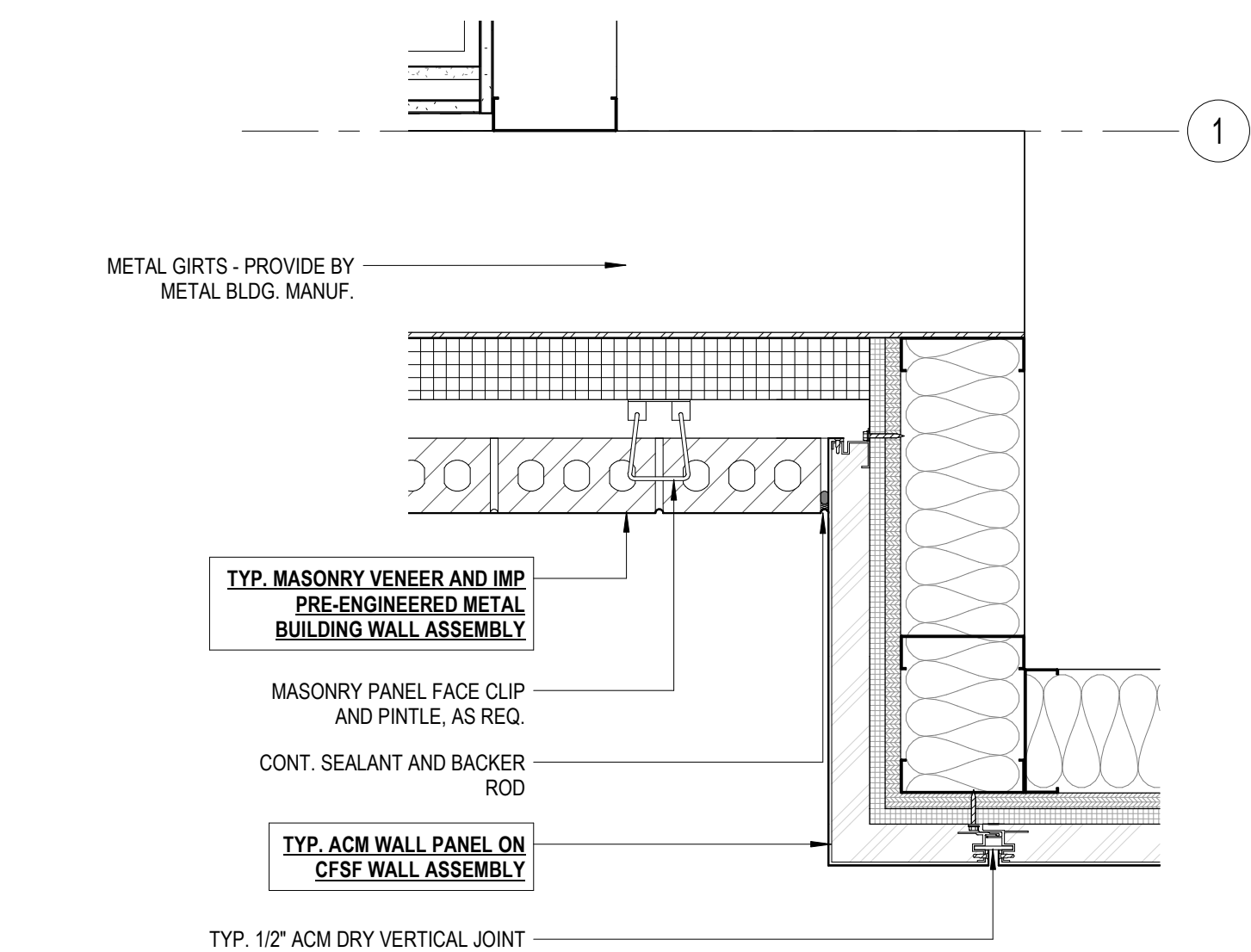
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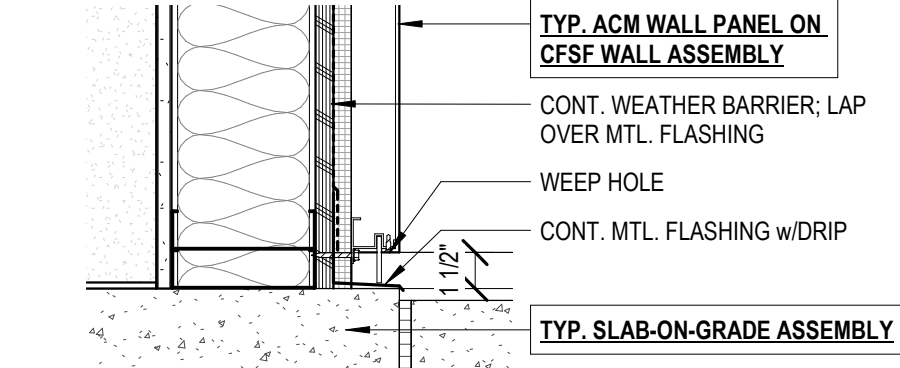
WBA # 5820

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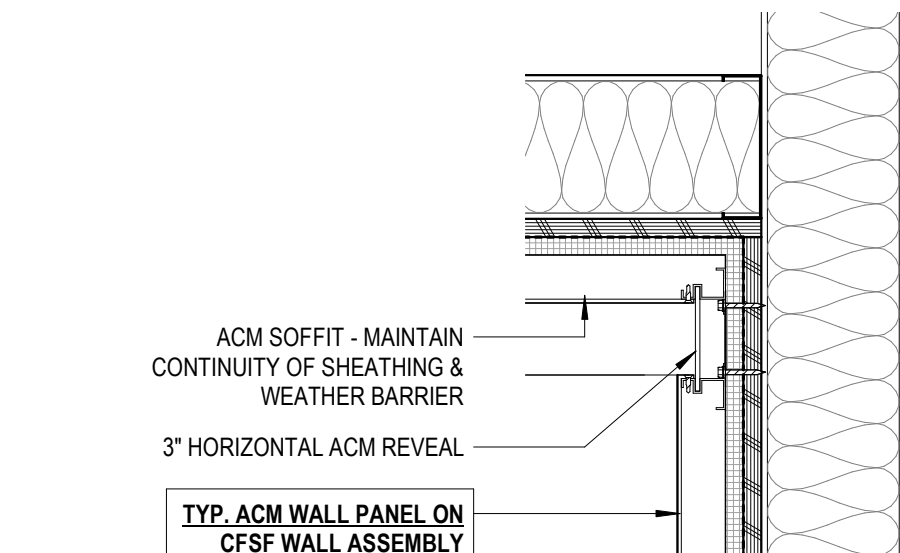
NO.	DESCRIPTION	DATE
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2	MON 13 SEP 2021	



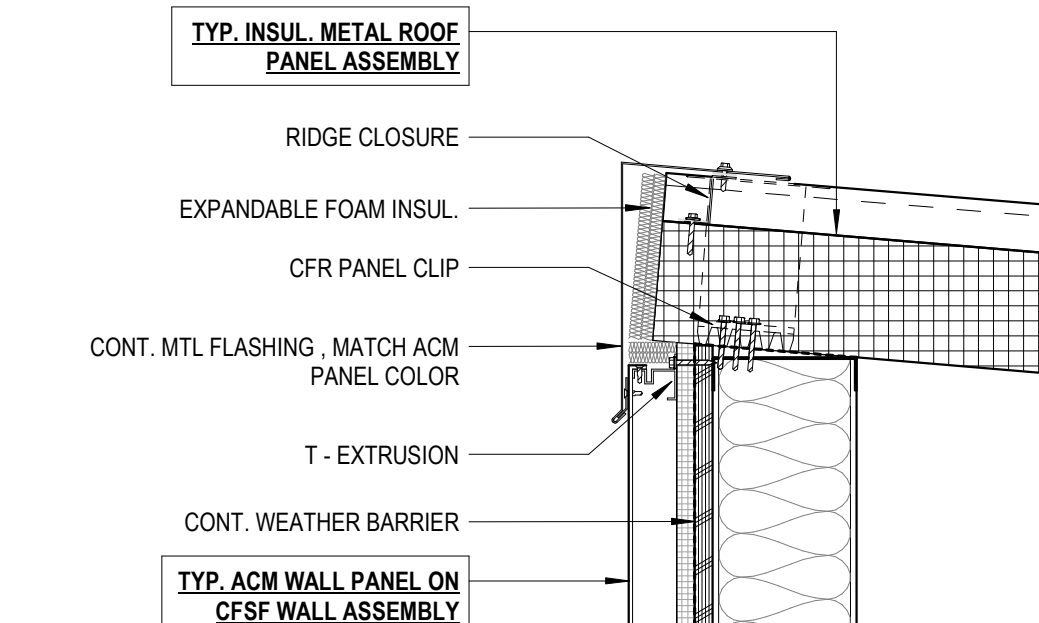
15) EXTERIOR DETAIL
1 1/2" = 1'-0"



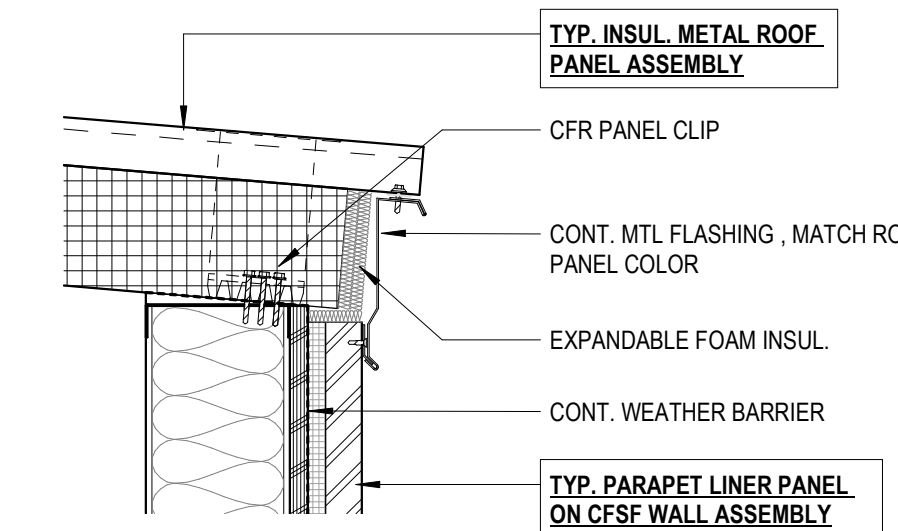
14) ACM BASE DETAIL
1 1/2" = 1'-0"



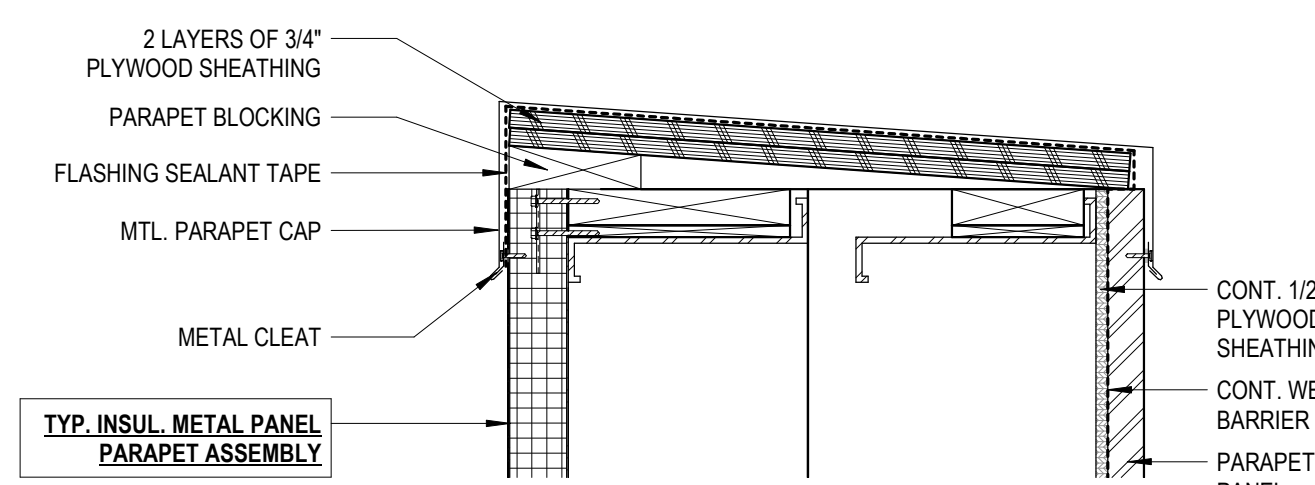
10) ACM SOFFIT EDGE DETAIL
1 1/2" = 1'-0"



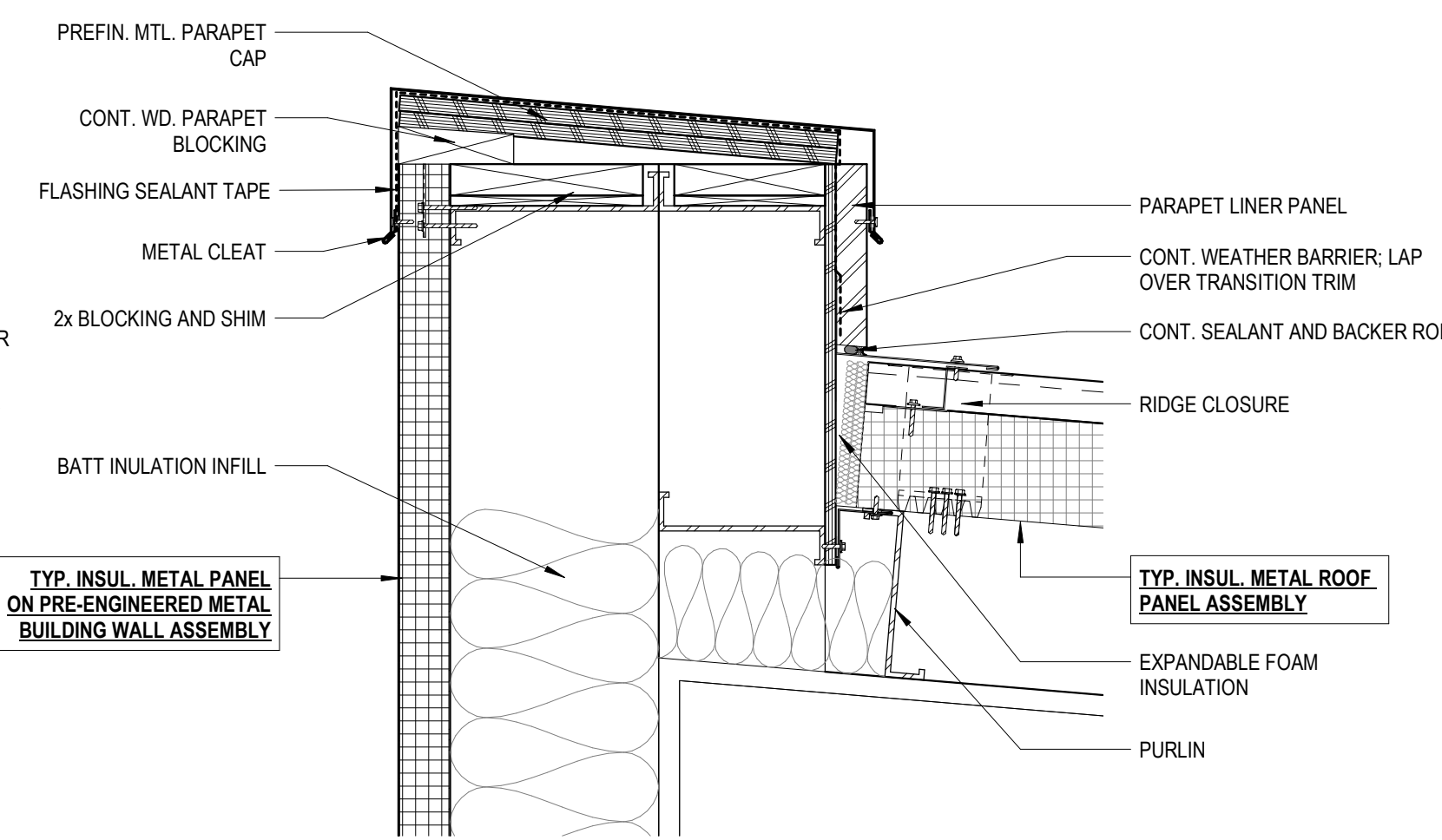
13) ACM HIGH EAVE DETAIL
1 1/2" = 1'-0"



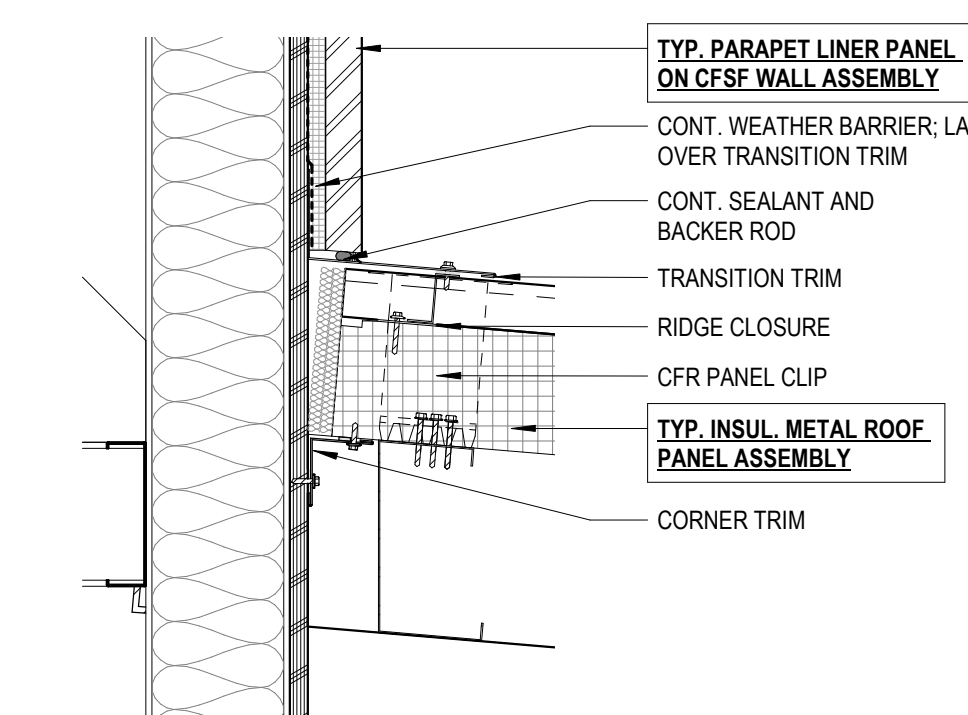
12) ACM LOW EAVE DETAIL
1 1/2" = 1'-0"



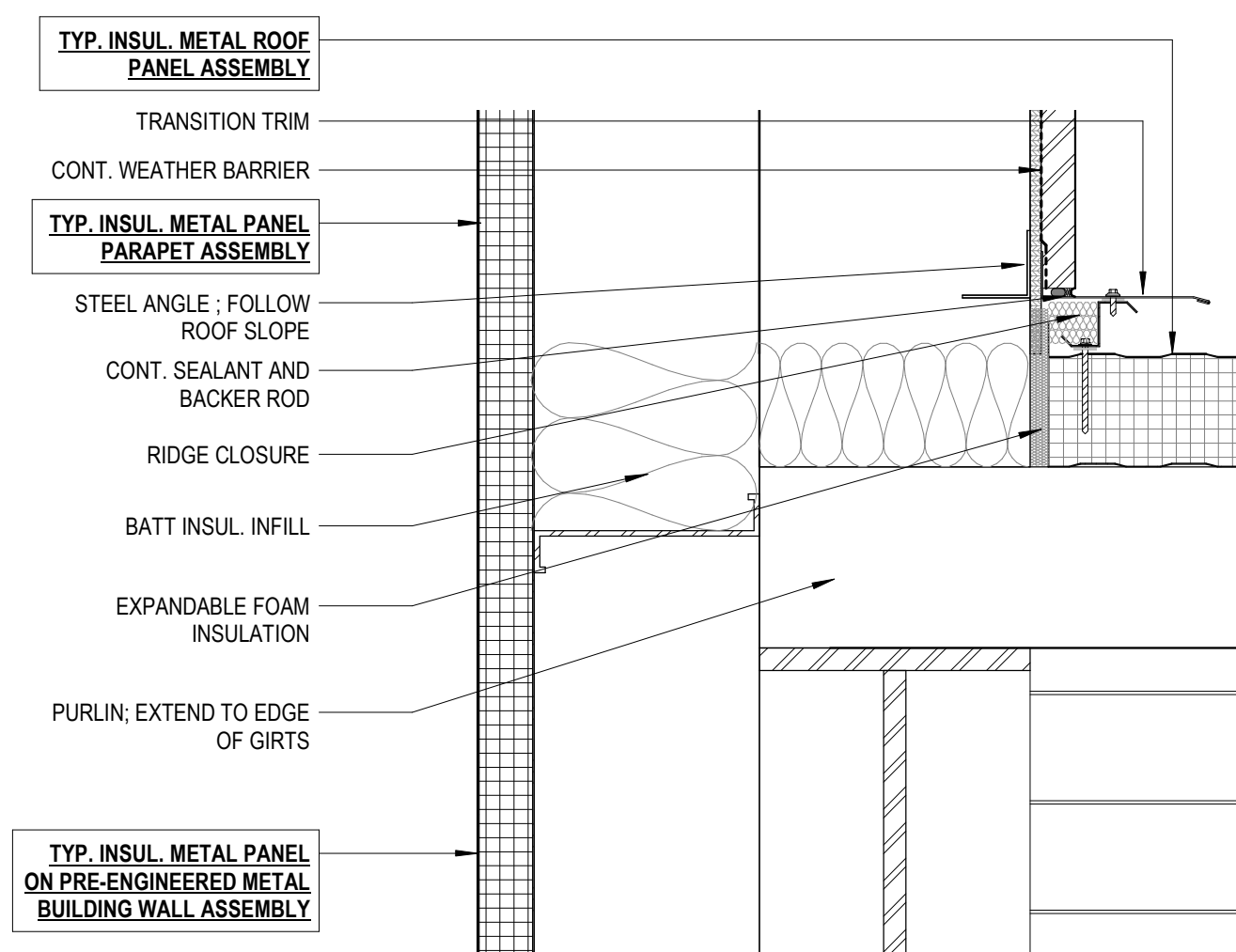
8) SECTION DETAIL
1 1/2" = 1'-0"



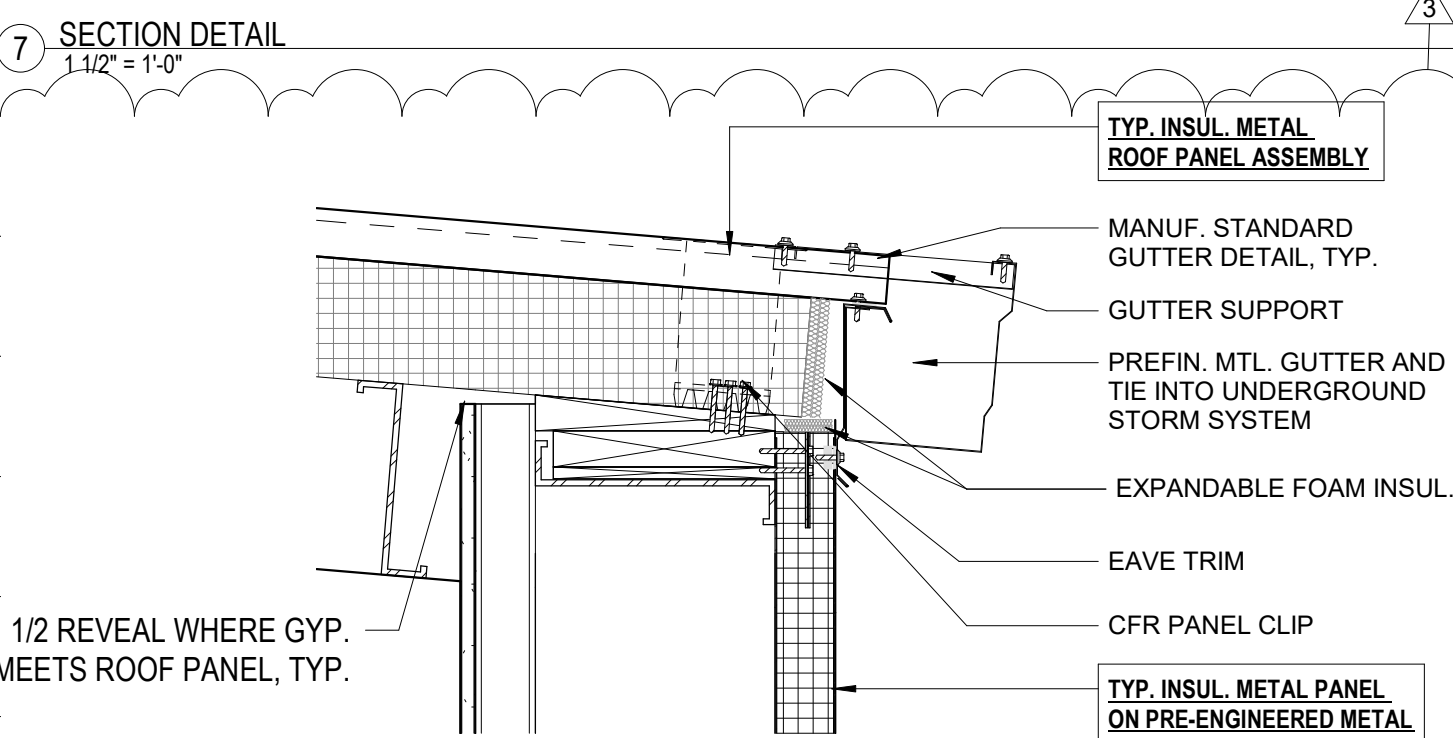
7) SECTION DETAIL
1 1/2" = 1'-0"



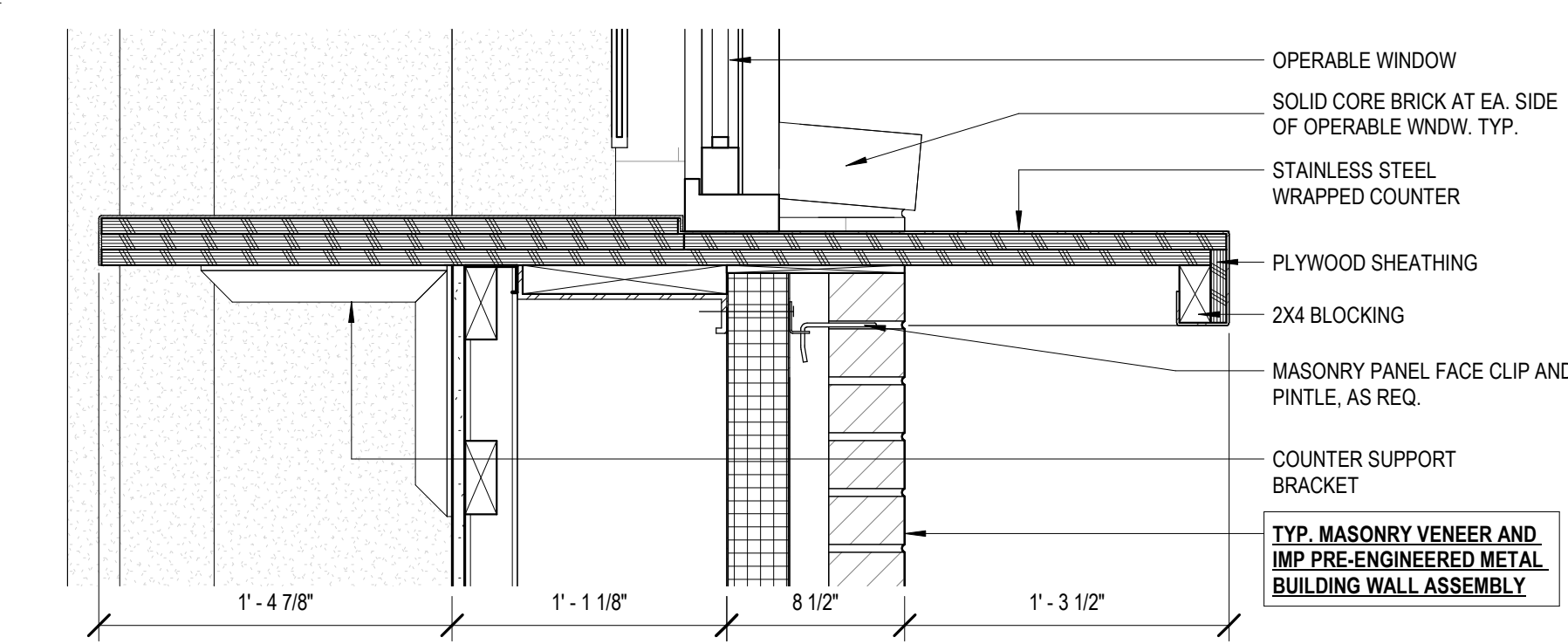
11) ACM PARAPET TRANSITION
1 1/2" = 1'-0"



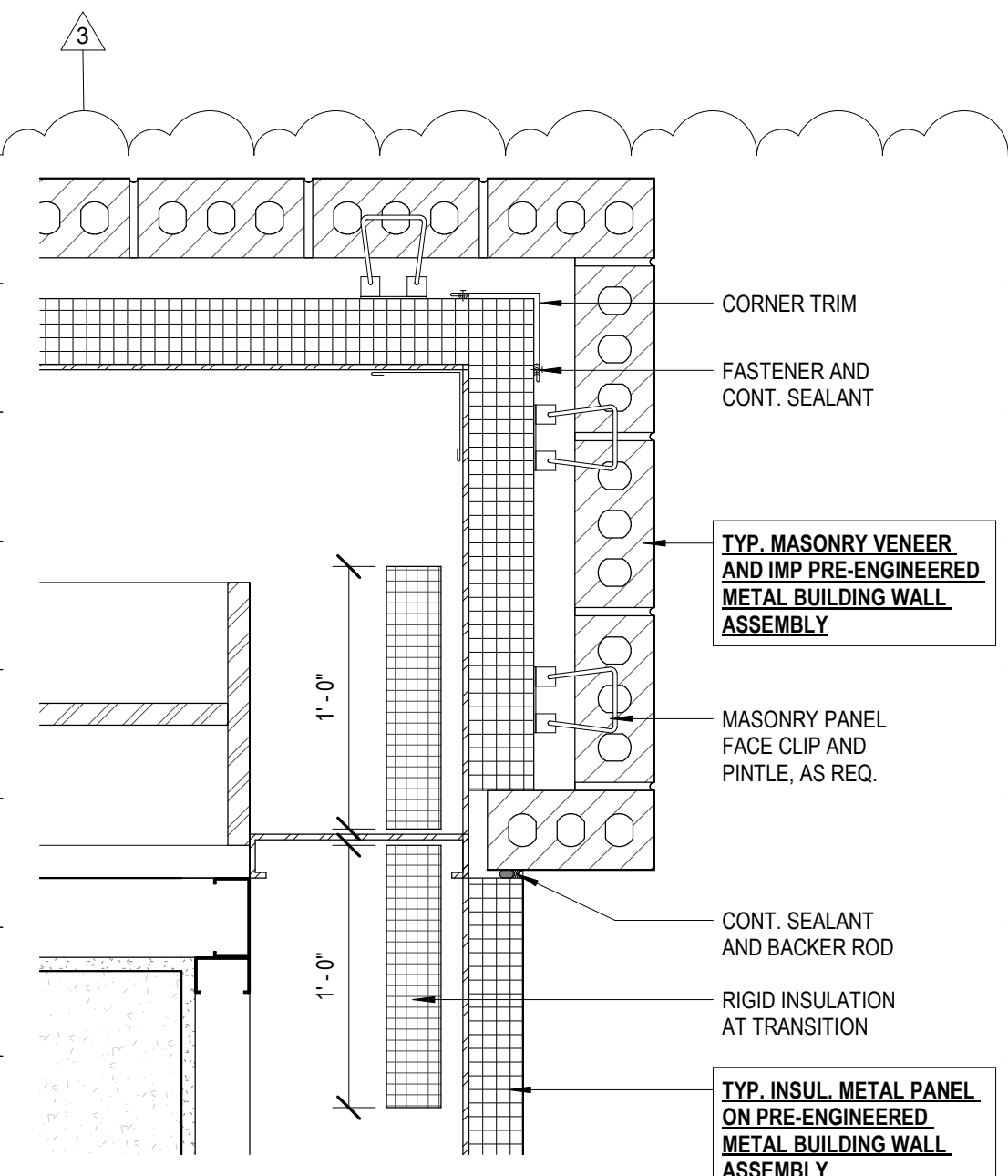
6) SECTION DETAIL
1 1/2" = 1'-0"



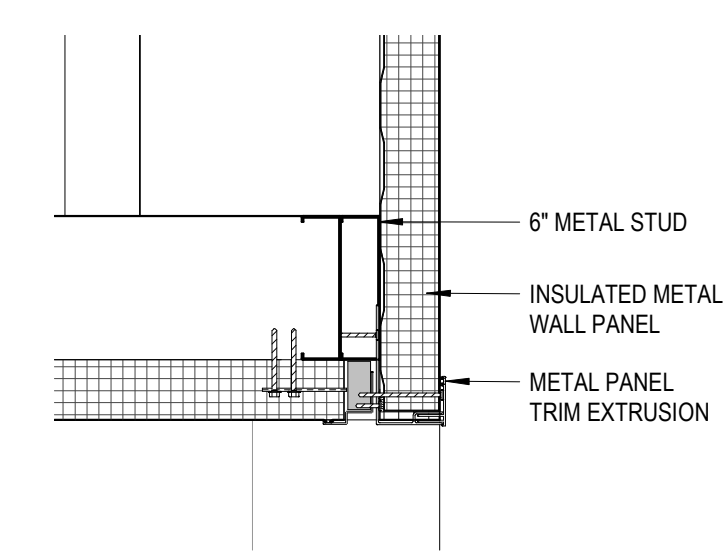
5) SECTION DETAIL
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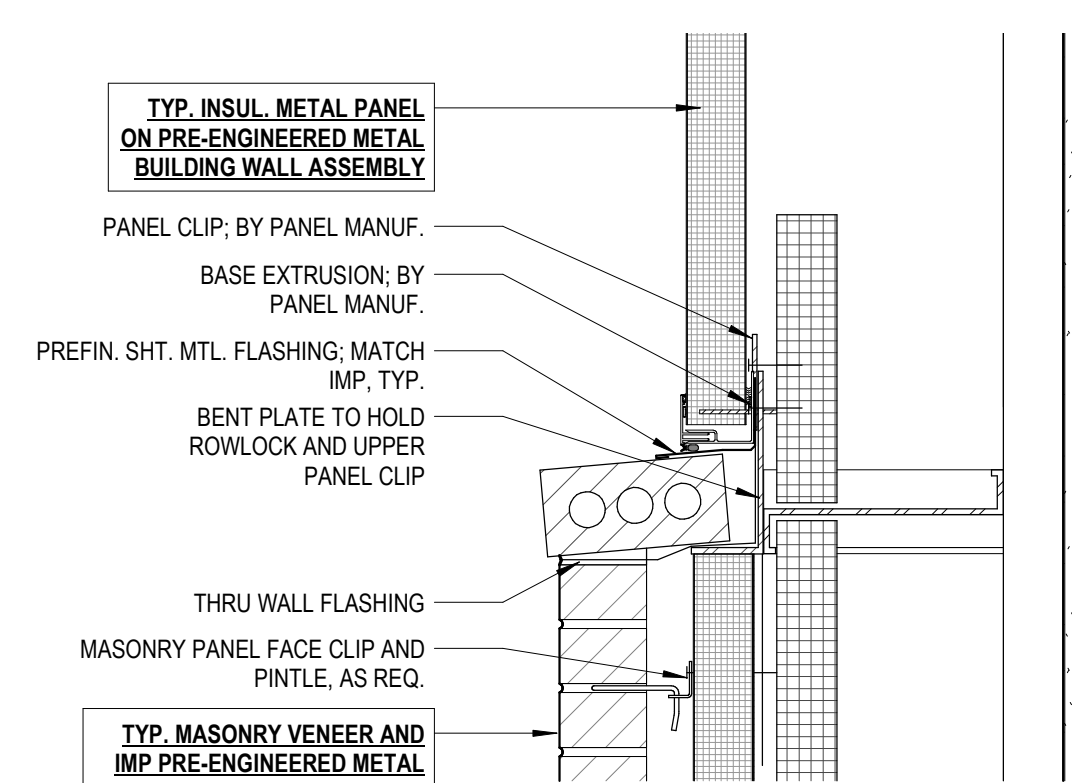
4) SECTION DETAIL
1 1/2" = 1'-0"



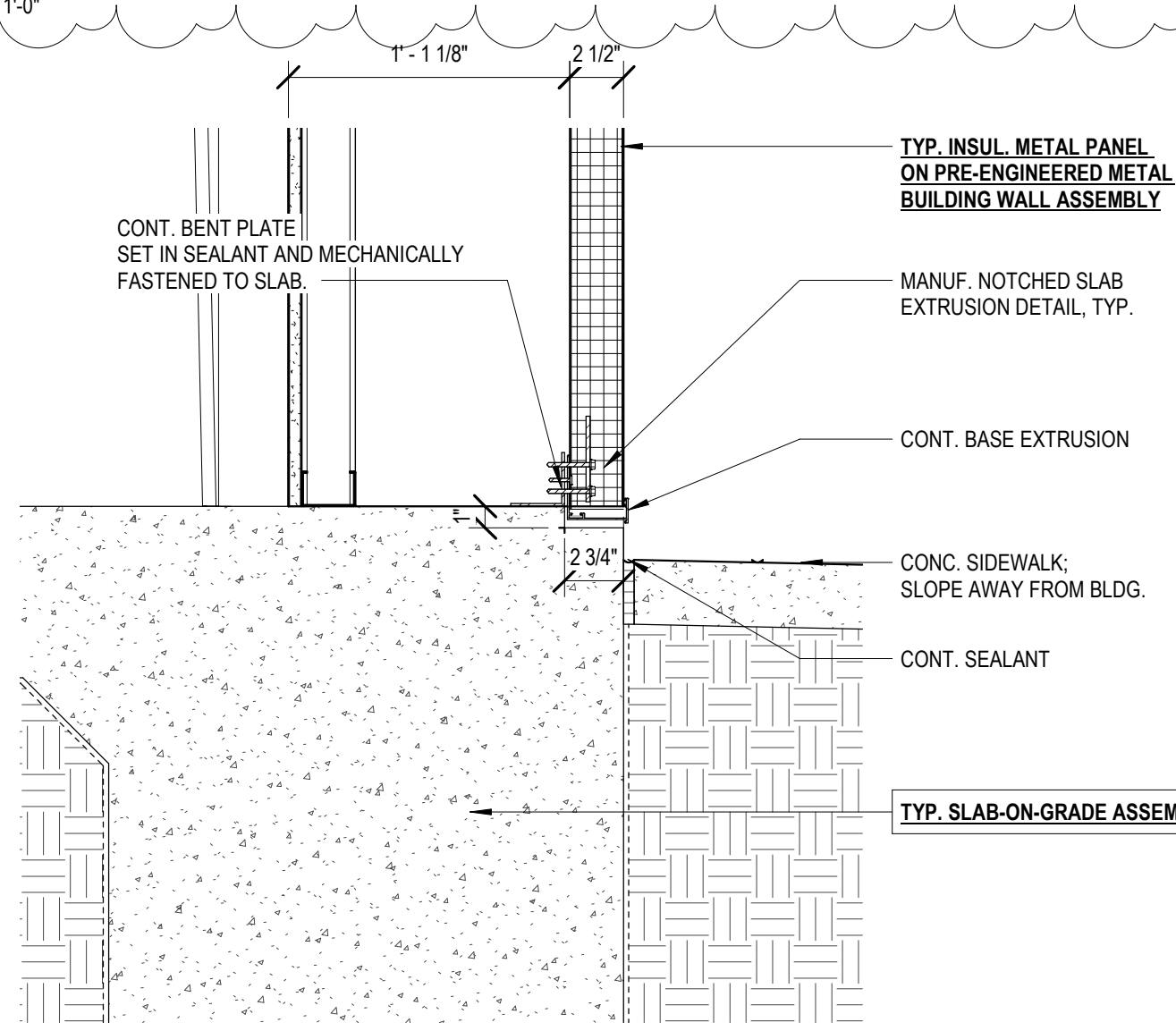
16) EXTERIOR DETAIL
1 1/2" = 1'-0"



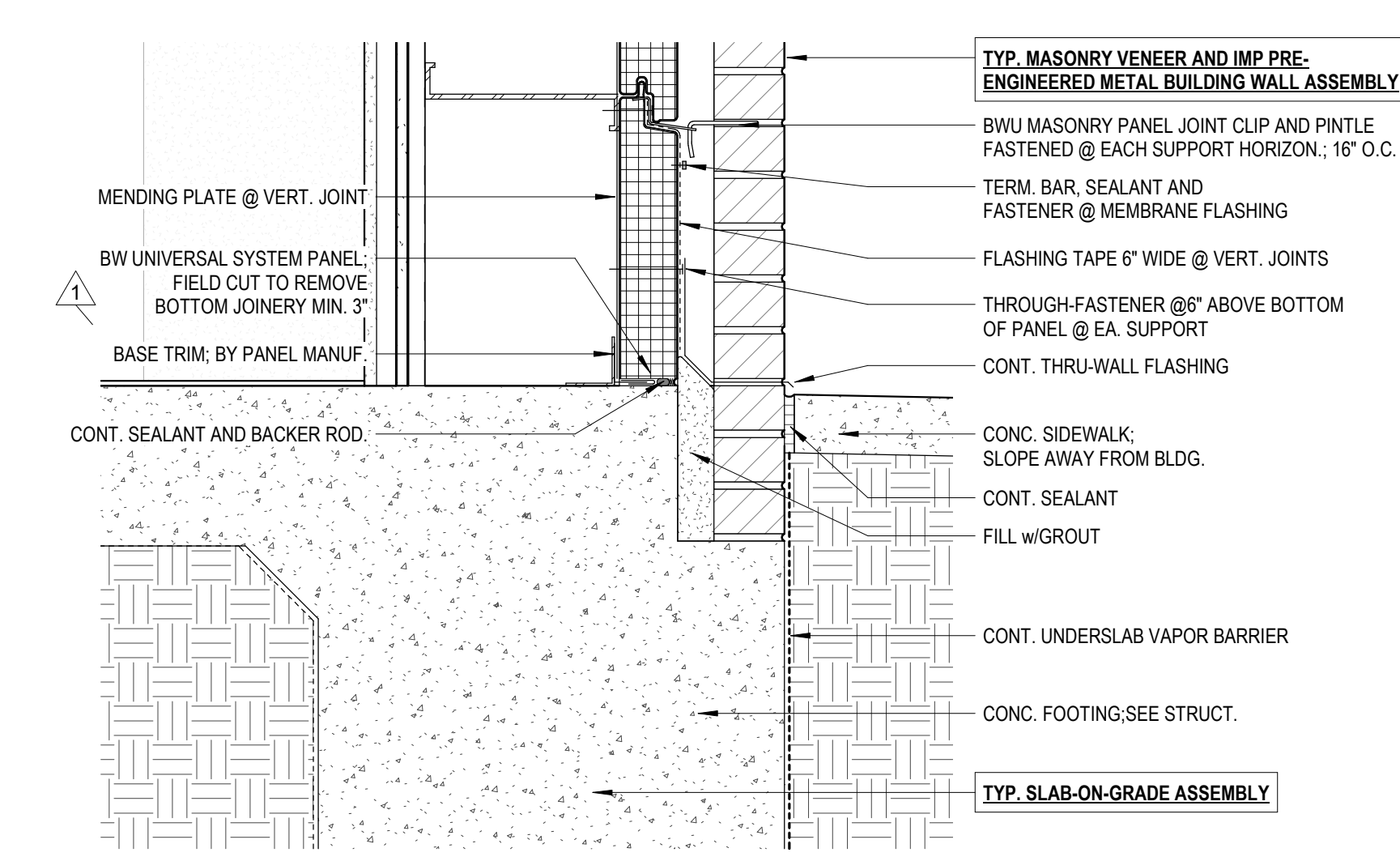
9) RESTROOM ENTRY SOFFIT DETAIL
1 1/2" = 1'-0"



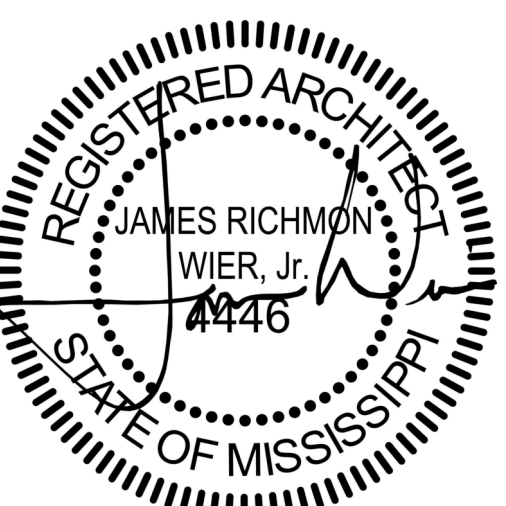
3) SECTION DETAIL
1 1/2" = 1'-0"



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



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

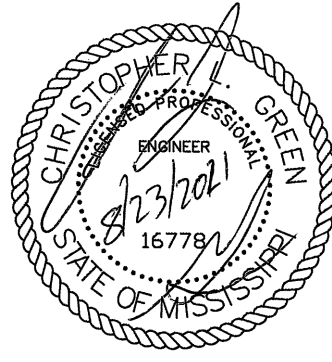
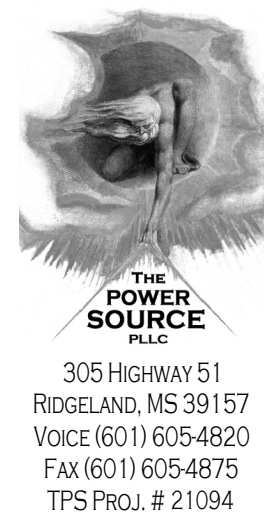


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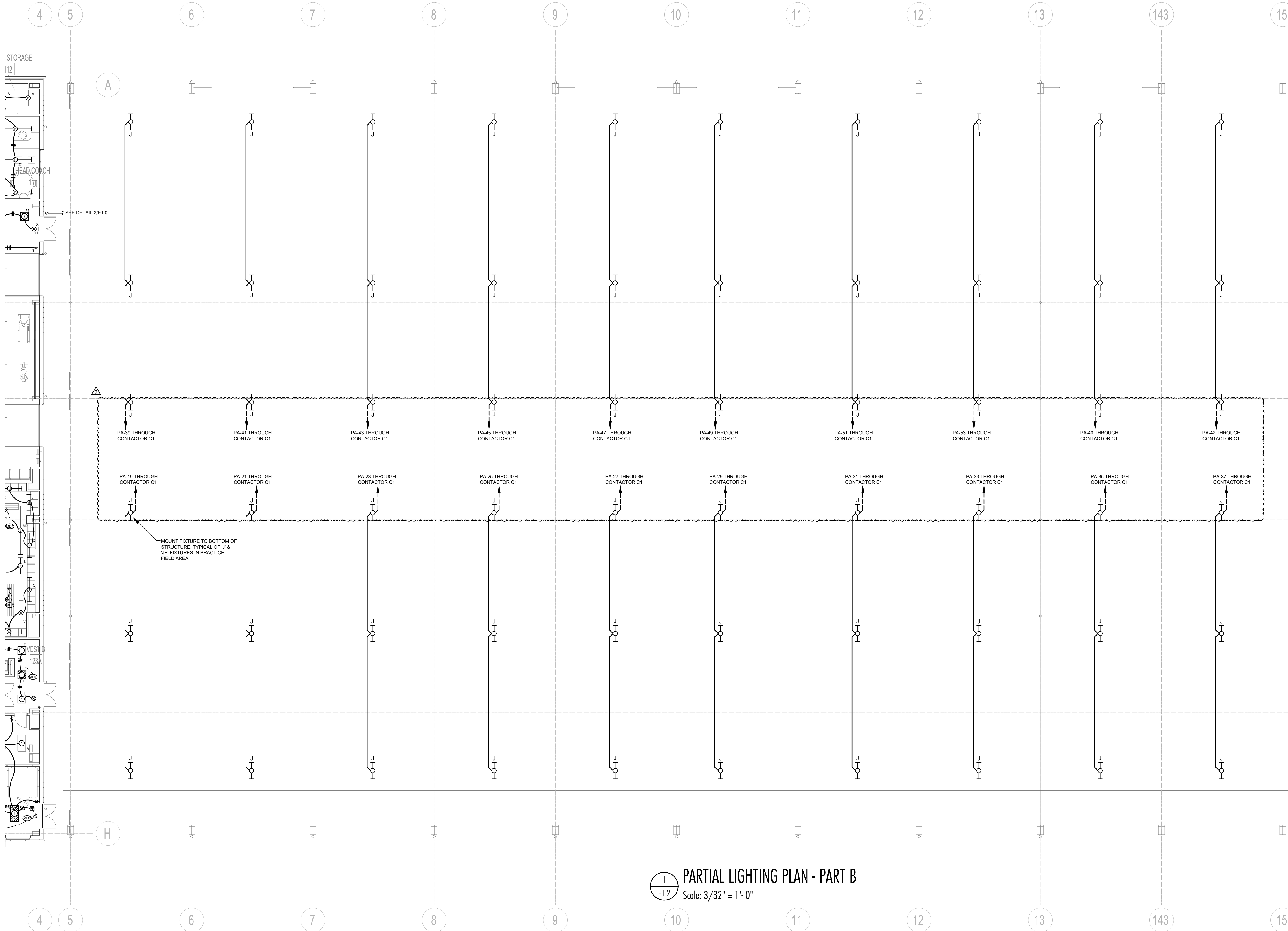
REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM NO. 1	09-03-2021
3	ADDENDUM NO. 3	09-13-2021



PEARL HIGH SCHOOL
INDOOR TRAINING
FACILITY

PEARL PUBLIC SCHOOL DISTRICT
500 PIRATES COVE
PEARL, MS 39208



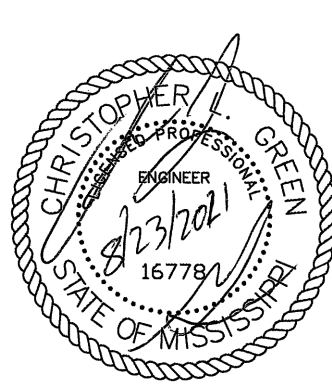
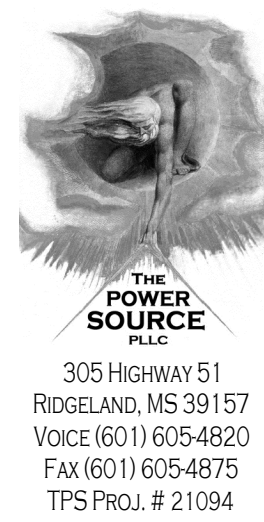
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E1.2 PARTIAL LIGHTING PLAN - PART B
Scale: 3/32" = 1'-0"

23 AUG 2021

CONSTRUCTION DOCUMENTS
WBA # 5820

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2021-09-03
2	ADDENDUM #2	2021-09-10
3	ADDENDUM #3	2021-09-13

E1.2
PARTIAL LIGHTING
PLAN - PART B



**PEARL HIGH SCHOOL
INDOOR
TRAINING
FACILITY**

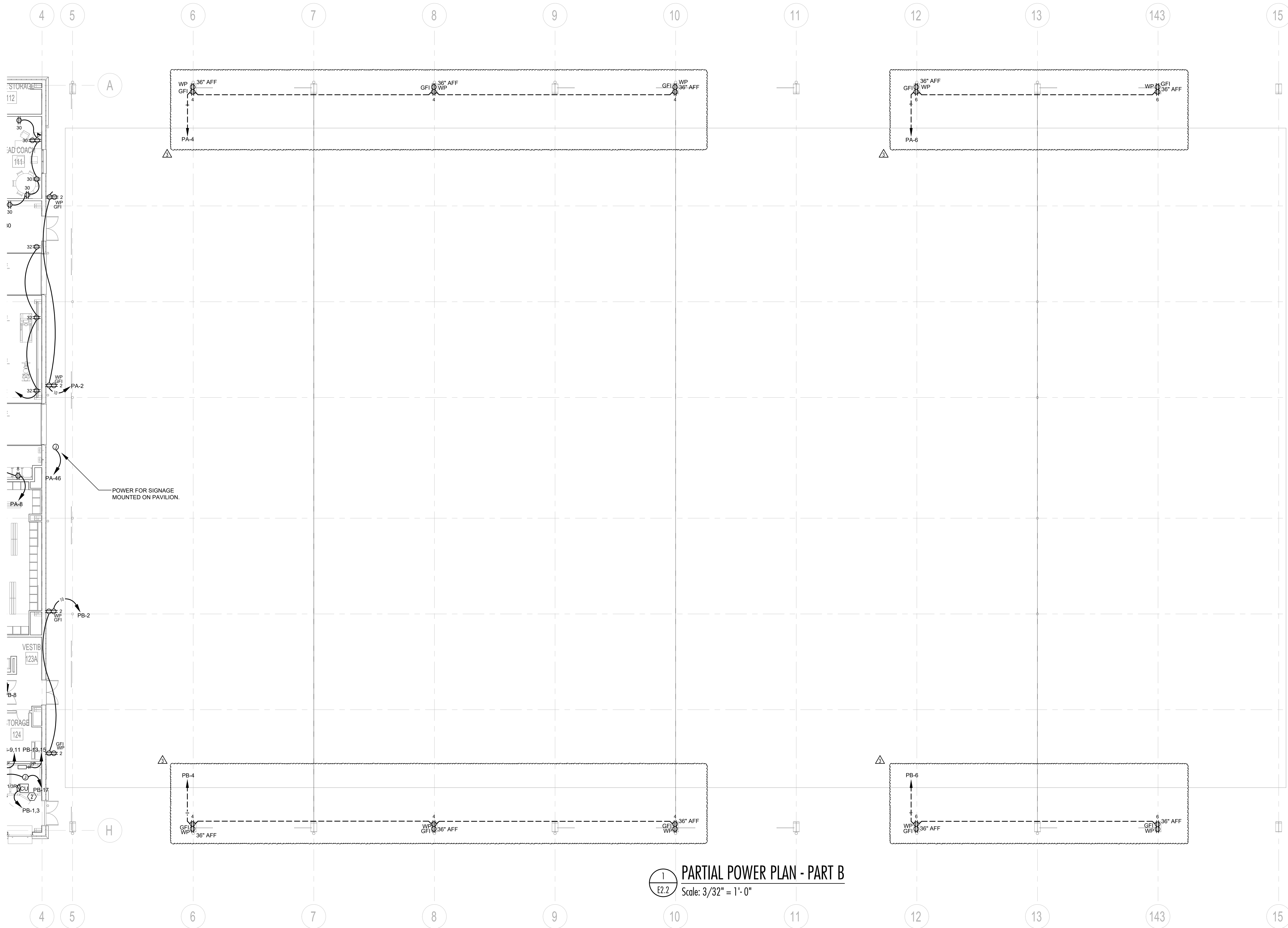
**PEARL PUBLIC
SCHOOL DISTRICT**
500 PIRATES COVE
PEARL, MS 39208

23 AUG 2021

CONSTRUCTION DOCUMENTS
WBA # 5820

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2021-09-03
2	ADDENDUM #2	2021-09-10
3	ADDENDUM #3	2021-09-13

E2.2
PARTIAL POWER
PLAN - PART B



PARTIAL POWER PLAN - PART B
Scale: 3/32" = 1'-0"