



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

KAY IVEY, GOVERNOR OF ALABAMA
DOUG OTTO, DIRECTOR




FEBRUARY 2026

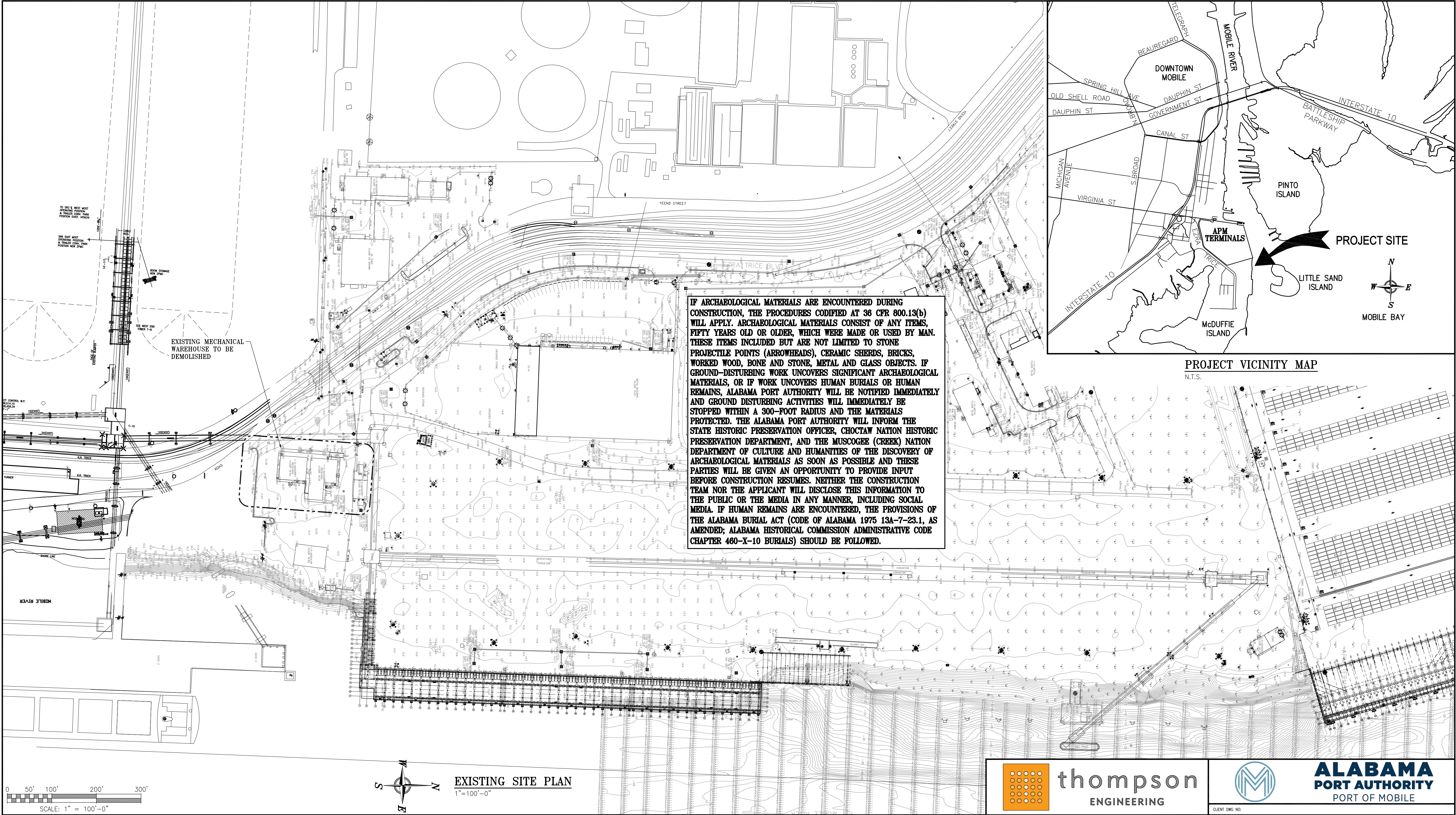


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PORT AUTHORITY
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CLIENT DWG NO:

NOTES								 APTIM PORT SERVICES, LLC					<u>McDUFFIE TERMINAL IMPROVEMENTS</u>		
		E	ISSUED FOR BID	JLH	JEJ	RSG	01-14-26	<small>THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.</small>	<u>NEW FABRICATION SHOP PACKAGE</u>						
		D	100% DESIGN REVIEW	JLH	JEJ	RSG	09-09-25		<u>PROJECT COVER SHEET</u>						
		C	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25		FOR: ALABAMA PORT AUTHORITY						
		B	60% DESIGN REVIEW	JLH	JEJ	RSG	06-10-25								
		A	30% DESIGN REVIEW	JLH	JEJ	RSG	04-11-25								
	REFERENCE DRAWINGS	NO.	REVISION		DRAWN	CK'D	APPD		DATE	DRAWN: JLH	CK'D: JEJ	APPD: RSG	DATE: 01-03-25	SCALE: NONE	PROJECT NO: 4617

DRAWING INDEX										GENERAL NOTES										CODE/DESIGN CRITERIA										STRUCTURAL STEEL GENERAL NOTES										REFERENCE SPECIFICATIONS																																							
Drawing No.					Drawing Title																																																																										
4617-G1					PROJECT COVER SHEET					1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING THE ACTUAL EXISTING CONDITIONS AND HOW THEY AFFECT THE REQUIRED WORK PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCY NOTED BETWEEN ACTUAL CONDITIONS AND THOSE DESCRIBED BY THESE DRAWINGS SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ENGINEER. NO ADDITIONAL COST ASSOCIATED WITH THE MODIFICATIONS TO THE SCOPE OF WORK REQUIRED DUE TO INACCURATE EXISTING CONDITIONS AS SHOWN BY THESE DRAWINGS WILL BE CONSIDERED UNLESS SAID CONDITIONS HAVE BEEN BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO RECEIVING BIDS.					1. SEE ALSO SPECIFICATIONS PROVIDED BY ARCHITECT. WHERE SPECIFICATIONS CONFLICT OR ARE DUPLICATED THE MORE RESTRICTIVE OF THE ARCHITECTURAL OR ENGINEERING SPECS WILL GOVERN.					1. STRUCTURAL STEEL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING PROJECT SPECIFICATION:					1. STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS – ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN" (1989) AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (1992).					1. STRUCTURAL STEEL "W", "WT" AND "S" SHAPES SHALL CONFORM TO ASTM A992, GRADE 50. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 CLASS B, Fy 46 ksi. ALL CHANNELS, ANGLES AND PLATES SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE.					1. HIGH STRENGTH BOLTING SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS OR A490 BOLTS" (1994).					1. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS AND IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STANDARD D1.1, LATEST EDITION.																																							
4617-G2					PROJECT GENERAL NOTES & DRAWING INDEX					2. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE ALABAMA PORT AUTHORITY.					2. BUILDING DIMENSIONS SHALL BE AS SHOWN ON THE DRAWINGS AND SHALL BE DESIGNED AS FOLLOWS AND IN ACCORDANCE WITH THE 2021 BUILDING CODE:					05100 – "STRUCTURAL STEEL MATERIALS FABRICATION AND ERECTION"					2. HIGH STRENGTH BOLTING SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS OR A490 BOLTS" (1994).					2. DEFLECTIONS SHALL BE LIMITED AS FOLLOWS:					2. MATERIALS					2. STRUCTURAL STEEL "W", "WT" AND "S" SHAPES SHALL CONFORM TO ASTM A992, GRADE 50. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 CLASS B, Fy 46 ksi. ALL CHANNELS, ANGLES AND PLATES SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE.																																							
4617-G3					EXISTING SITE PLAN & VICINITY MAP					3. ALL WORK SHALL CONFORM TO ALL APPLICABLE LOCAL BUILDING CODES AND ORDINANCES.					A. DEAD LOAD OF STRUCTURE					PRIMARY FRAMING – L/240 FOR LIVE LOAD					2. HIGH STRENGTH BOLTS, NUTS AND HARDENED WASHERS SHALL CONFORM TO ASTM A325, ASTM A563 DH, AND ASTM F436 RESPECTIVELY. MACHINE BOLTS AND NUTS SHALL CONFORM TO ASTM A307, AND PLAIN WASHERS SHALL CONFORM TO ANSI B18.22.1. BOLTS, NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED.					2. WELDING ELECTRODES USED FOR FIELD CONNECTIONS SHALL CONFORM TO AWS A5.1, CLASS E70XX UNLESS NOTED OTHERWISE ON THE DRAWINGS. WELDING ELECTRODES USED FOR SHOP CONNECTIONS SHALL CONFORM TO AWS A5.1 WITH A MINIMUM ELECTRODE TENSILE STRENGTH OF 70 KSI, UNLESS NOTED OTHERWISE ON THE DRAWINGS.					2. GRATING SHALL BE WELDED STEEL BAR TYPE WITH SERRATED 1½ INCH BY ¾ INCH BEARING BARS SPACED AT 1½ INCH CENTER TO CENTER, UNLESS NOTED OTHERWISE ON THE DRAWINGS. CROSS BARS SHALL BE SPACED AT 4 INCHES CENTER TO CENTER. ALL BEARING BARS AND CROSS BARS SHALL BE WELDING QUALITY MILD CARBON STEEL AND SHALL CONFORM TO ASTM A1011.																																												
4617-G4					EXISTING SITE PLAN – AERIAL OVERLAY					4. AT ALL TIMES, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF PERSONS AND PROPERTY, AND FOR ALL NECESSARY INDEPENDENT ENGINEERING REVIEW OF THESE CONDITIONS. THE ENGINEER'S JOB SITE REVIEW IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.					B. WIND LOAD – 159 MPH (3 SECOND GUST) (RISK CATEGORY II) (EXPOSURE D)					SECONDARY FRAMING – L/240 FOR ROOF DEAD LOAD + ROOF LIVE LOAD.					2. ALL STRUCTURAL STEEL, MISCELLANEOUS STEEL, HANDRAIL AND LADDERS SHALL BE SHOP PAINTED IN ACCORDANCE WITH THE PROJECT PAINT SPECIFICATION 09910, DESIGNATION S-2S.					2. FABRICATION AND ERECTION					2. NO TEMPORARY ERECTION BOLTS OTHER THAN HIGH STRENGTH BOLTS SHALL BE USED DURING ERECTION OF THE MEMBERS REQUIRING HIGH STRENGTH BOLTS.																																												
4617-G5					NEW SITE PLAN					5. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT AN EROSION CONTROL PLAN INDICATING THE NECESSARY SILT FENCES AND HAY BALES AS REQUIRED TO PREVENT STORM WATER RUN-OFF INTO THE ADJACENT WATERWAYS DURING CONSTRUCTION.					C. ROOF LIVE LOAD – 20 PSF (REDUCIBLE)					ANCHOR BOLT MATERIAL SHALL BE AS SHOWN ON THE DRAWINGS. ALL A-36 AND A-307 ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A-123 AND ASTM A-143, UNLESS NOTED OTHERWISE ON THE DRAWINGS.					2. FIELD CORRECTING OF FABRICATED STEEL BY GAS CUTTING SHALL NOT BE PERMITTED ON MAJOR STRUCTURAL FRAMING MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.					2. ALL ANGLE AND STRUCTURAL TEE BRACING SHALL HAVE ¾ INCH DRAW PER 10 FEET OF LENGTH. MAXIMUM DRAW SHALL BE ¾ INCH AND NO DEDUCTION SHALL BE MADE FOR LENGTHS LESS THAN 10 FEET.					2. FILLET WELD SIZES, IF NOT CALLED OUT ON THE DRAWINGS, SHALL BE ¾ INCH MINIMUM UNLESS TABLE J2.4 OF AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS – ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN" REQUIRES A LARGER SIZE.																																												
4617-G6					ENLARGED AREA PLAN					6. LOADINGS AND LOAD COMBINATIONS SHALL BE IN ACCORDANCE WITH THE MBMA 'METAL BUILDINGS SYSTEMS MANUAL',LATEST EDITION, AND THE IBC, LATEST EDITION, EXCEPT THAT LIVE LOAD REDUCTIONS SHALL NOT BE ALLOWED. DESIGN WIND SPEED SHALL BE 140 MPH.					D. COLLATERAL LOAD – 10 PSF					2. EPOXY MATERIAL FOR DRILLED AND GROUTED REBAR AND ANCHORS SHALL BE AS CALLED FOR ON THE DRAWINGS (HILTI) OR ENGINEERING APPROVED EQUAL.					2. CONSTRUCTION METHODS					2. COORDINATE CONCRETE WORK WITH PIPING, ELECTRICAL AND MECHANICAL WORK PRIOR TO PLACING CONCRETE.					2. UNLESS NOTED OTHERWISE, DETAIL, FABRICATE AND PLACE REINFORCING IN CONFORMANCE WITH ACI 318.																																												
4617-G7					CIVIL SECTIONS – SHEET 1 OF 4					7. THE BUILDING SHALL BE DESIGNED TO SUPPORT ALL MECHANICAL AND ELECTRICAL EQUIPMENT INCLUDING HEATERS, SPRINKLERS, EXHAUST SYSTEMS, LIGHTING AND OTHER SUCH DEVICES. ADDITIONAL GIRTS OR PURLINS SHALL BE PLACED IN CONVENIENT LOCATIONS FOR ATTACHMENT OF ALL MECHANICAL EQUIPMENT.					E. FLOOR LOAD – 100 PSF					3. EXPOSED EDGES OF CONCRETE SHALL HAVE A ¾" CHAMFER UNLESS NOTED OTHERWISE.					3. CONCRETE COVER FOR REINFORCING IN CAST-IN-PLACE CONCRETE WORK SHALL BE AS FOLLOWS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DETAIL DRAWINGS:					3. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO THE EARTH – 3 INCHES					3. ALL HIGH STRENGTH BOLTED CONNECTIONS SHALL BE BEARING TYPE WITH THREADS INCLUDED IN THE SHEAR PLANE EXCEPT FOR VERTICAL BRACES, TRUSSES, MOMENT CONNECTIONS, HANGERS, DIRECT TENSION CONNECTIONS AND VIBRATORY STRUCTURES, WHICH SHALL BE SLIP CRITICAL CLASS A.																																												
4617-G8					CIVIL SECTIONS – SHEET 2 OF 4					8. DIAGONAL CROSS BRACING SHALL BE USED TO TAKE LATERAL LOADS PARALLEL TO THE RIDGE LINE WHERE POSSIBLE. IN LIEU OF DIAGONAL BRACING, WIND COLUMNS OR PORTAL FRAMES MAY BE USED TO TAKE THESE LATERAL LOADS.					F. CRANE – (2) 7 TON (CLASS C) (AS SHOWN ON DRAWING S4).					4. SPLICES IN REINFORCING BARS SHALL BE CLASS "B" SPLICES AS DEFINED BY ACI 318 UNLESS NOTED OTHERWISE ON THE DRAWING.					4. CONSTRUCTION JOINTS SHALL BE MADE AT THE LOCATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS.					4. CONCRETE INDICATED ON THE DRAWINGS TO BE ROUGHENED SHALL BE FREE OF LAITANCE AND DEBRIS, AND ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY ¼ INCH.					4. CONCRETE FLOOR SLABS, DOCK SURFACE, ROADWAYS AND AREA PAVING SHALL HAVE A BROOM FINISH. VERTICAL WALLS SHALL HAVE A RUBBED FINISH AS DESCRIBED IN THE PROJECT SPECIFICATIONS.																																												
4617-G9					CIVIL SECTIONS – SHEET 3 OF 4					9. THE BUILDING SHALL BE INSULATED WITH BUILDING MANUFACTURER'S STANDARD VINYL BACKED INSULATION AS FOLLOWS:					ALL OTHER REINFORCING – 2 INCHES					5. CORNER BARS SHALL BE REQUIRED AT ALL REENTRANT CORNER INTERSECTIONS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. THESE BARS SHALL BE #4 WITH A LENGTH OF 2'-6" PLACED AT 45° TO THE CORNER.					5. PROVIDE CORNER BARS FOR ALL HORIZONTAL WALL REINFORCEMENT STEEL WITH A MINIMUM LAP OF 36 BAR DIAMETERS.					5. GRATING ANCHORS SHALL BE GFI G-CLIPS WITH A MECHANICALLY GALVANIZED FINISH AS MANUFACTURED BY: GRATING FASTENERS, INC. PO BOX 6438 NEW ORLEANS, LA 70174																																																	
4617-G102.0					1ST & 2ND FLOOR LIFE SAFETY PLAN					10. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.					CONCRETE COVER FOR REINFORCING IN CAST-IN-PLACE CONCRETE WORK SHALL BE AS FOLLOWS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DETAIL DRAWINGS:					6. CONSTRUCTION JOINTS SHALL BE MADE AT THE LOCATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS.					6. CONCRETE INDICATED ON THE DRAWINGS TO BE ROUGHENED SHALL BE FREE OF LAITANCE AND DEBRIS, AND ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY ¼ INCH.					6. CONCRETE FLOOR SLABS, DOCK SURFACE, ROADWAYS AND AREA PAVING SHALL HAVE A BROOM FINISH. VERTICAL WALLS SHALL HAVE A RUBBED FINISH AS DESCRIBED IN THE PROJECT SPECIFICATIONS.					6. PROVIDE CORNER BARS FOR ALL HORIZONTAL WALL REINFORCEMENT STEEL WITH A MINIMUM LAP OF 36 BAR DIAMETERS.																																												
4617-A100.0					OVERVIEW 1ST FLOOR PLAN					11. CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE THE ARCHITECTURAL DRAWINGS.					ROOF: R19 VINYL BACKED ROLL INSULATION WALLS: R10 VINYL BACKED ROLL INSULATION					7. CONCRETE INDICATED ON THE DRAWINGS TO BE ROUGHENED SHALL BE FREE OF LAITANCE AND DEBRIS, AND ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY ¼ INCH.					7. CONCRETE FLOOR SLABS, DOCK SURFACE, ROADWAYS AND AREA PAVING SHALL HAVE A BROOM FINISH. VERTICAL WALLS SHALL HAVE A RUBBED FINISH AS DESCRIBED IN THE PROJECT SPECIFICATIONS.					7. PROVIDE CORNER BARS FOR ALL HORIZONTAL WALL REINFORCEMENT STEEL WITH A MINIMUM LAP OF 36 BAR DIAMETERS.					7. CORNER BARS SHALL BE REQUIRED AT ALL REENTRANT CORNER INTERSECTIONS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. THESE BARS SHALL BE #4 WITH A LENGTH OF 2'-6" PLACED AT 45° TO THE CORNER.																																												
4617-A100.1					OVERVIEW & DIMENSIONAL 2ND FLOOR PLAN					12. CONTRACTOR SHALL OBTAIN AND COORDINATE EDGE OF SLAB DIMENSIONS, OPENING LOCATIONS AND DIMENSIONS, DEPRESSED SLAB LOCATIONS AND EXTENTS, SLAB SLOPES AND CURB LOCATIONS. STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.					CONCRETE COVER FOR REINFORCING IN CAST-IN-PLACE CONCRETE WORK SHALL BE AS FOLLOWS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DETAIL DRAWINGS:					8. CONSTRUCTION JOINTS SHALL BE MADE AT THE LOCATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS.					8. CONCRETE INDICATED ON THE DRAWINGS TO BE ROUGHENED SHALL BE FREE OF LAITANCE AND DEBRIS, AND ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY ¼ INCH.					8. CONCRETE FLOOR SLABS, DOCK SURFACE, ROADWAYS AND AREA PAVING SHALL HAVE A BROOM FINISH. VERTICAL WALLS SHALL HAVE A RUBBED FINISH AS DESCRIBED IN THE PROJECT SPECIFICATIONS.					8. PROVIDE CORNER BARS FOR ALL HORIZONTAL WALL REINFORCEMENT STEEL WITH A MINIMUM LAP OF 36 BAR DIAMETERS.					8. CORNER BARS SHALL BE REQUIRED AT ALL REENTRANT CORNER INTERSECTIONS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. THESE BARS SHALL BE #4 WITH A LENGTH OF 2'-6" PLACED AT 45° TO THE CORNER.																																							
4617-A100.2					DIMENSIONAL 1ST FLOOR PLAN					13. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.					CONCRETE COVER FOR REINFORCING IN CAST-IN-PLACE CONCRETE WORK SHALL BE AS FOLLOWS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DETAIL DRAWINGS:					9. CONCRETE INDICATED ON THE DRAWINGS TO BE ROUGHENED SHALL BE FREE OF LAITANCE AND DEBRIS, AND ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY ¼ INCH.					9. CONCRETE FLOOR SLABS, DOCK SURFACE, ROADWAYS AND AREA PAVING SHALL HAVE A BROOM FINISH. VERTICAL WALLS SHALL HAVE A RUBBED FINISH AS DESCRIBED IN THE PROJECT SPECIFICATIONS.					9. PROVIDE CORNER BARS FOR ALL HORIZONTAL WALL REINFORCEMENT STEEL WITH A MINIMUM LAP OF 36 BAR DIAMETERS.					9. CORNER BARS SHALL BE REQUIRED AT ALL REENTRANT CORNER INTERSECTIONS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. THESE BARS SHALL BE #4 WITH A LENGTH OF 2'-6" PLACED AT 45° TO THE CORNER.																																												
4617-A101.1					1ST FLOOR REFLECTED CEILING PLAN					14. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, SAFETY, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.					CONCRETE COVER FOR REINFORCING IN CAST-IN-PLACE CONCRETE WORK SHALL BE AS FOLLOWS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DETAIL DRAWINGS:					10. CONCRETE INDICATED ON THE DRAWINGS TO BE ROUGHENED SHALL BE FREE OF LAITANCE AND DEBRIS, AND ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY ¼ INCH.					10. CONCRETE FLOOR SLABS, DOCK SURFACE, ROADWAYS AND AREA PAVING SHALL HAVE A BROOM FINISH. VERTICAL WALLS SHALL HAVE A RUBBED FINISH AS DESCRIBED IN THE PROJECT SPECIFICATIONS.					10. PROVIDE CORNER BARS FOR ALL HORIZONTAL WALL REINFORCEMENT STEEL WITH A MINIMUM LAP OF 36 BAR DIAMETERS.					10. CORNER BARS SHALL BE REQUIRED AT ALL REENTRANT CORNER INTERSECTIONS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. THESE BARS SHALL BE #4 WITH A LENGTH OF 2'-6" PLACED AT 45° TO THE CORNER.																																												
4617-A101.2					2ND FLOOR REFLECTED CEILING PLAN					15. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTIBILITY ANALYSIS, AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION.					CONCRETE COVER FOR REINFORCING IN CAST-IN-PLACE CONCRETE WORK SHALL BE AS FOLLOWS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DETAIL DRAWINGS:					11. A 6-MIL POLY VAPOR BARRIER SHALL BE PROVIDED UNDERNEATH ALL FLOOR SLABS. CARE SHALL BE TAKEN IN THE USE OF REINFORCING STEEL CHAIRS SO AS NOT TO DAMAGE THE VAPOR BARRIER.					11. CONCRETE INDICATED ON THE DRAWINGS TO BE ROUGHENED SHALL BE FREE OF LAITANCE AND DEBRIS, AND ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY ¼ INCH.					11. CONCRETE FLOOR SLABS, DOCK SURFACE, ROADWAYS AND AREA PAVING SHALL HAVE A BROOM FINISH. VERTICAL WALLS SHALL HAVE A RUBBED FINISH AS DESCRIBED IN THE PROJECT SPECIFICATIONS.					11. PROVIDE CORNER BARS FOR ALL HORIZONTAL WALL REINFORCEMENT STEEL WITH A MINIMUM LAP OF 36 BAR DIAMETERS.					11. CORNER BARS SHALL BE REQUIRED AT ALL REENTRANT CORNER INTERSECTIONS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. THESE BARS SHALL BE #4 WITH A LENGTH OF 2'-6" PLACED AT 45° TO THE CORNER.																																							
4617-A102.0					ROOF PLAN																																																																										
4617-A103.0					ENLARGED FLOOR PLAN																																																																										
4617-A200.0					EXTERIOR ELEVATIONS																																																																										
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4617-A201.1					MILLWORK DETAILS																																																																										
4617-A300.0					BUILDING SECTIONS																																																																										
4617-A301.0					BUILDING WALL SECTIONS																																																																										
4617-A400.0					PARTITION TYPES																																																																										
4617-A400.1					PARTITION TYPES																																																																										
4617-A500.0					DETAILS																																																																										
4617-A500.1					DETAILS																																																																										
4617-A600.0					DOOR & FINISH SCHEDULE																																																																										
4617-CV1					SOIL BORING LOCATION PLAN																																																																										
4617-CV2					SOIL BORING LOGS																																																																										
4617-CV3					PILE DETAILS/SCHEDULE																																																																										
4617-CV4					PILE LOCATION PLAN																																																																										
4617-S1					FOUNDATION PLAN																																																																										
4617-S2					FOUNDATION SECTIONS – SHEET 1 OF 3																																																																										
4617-S3					FOUNDATION SECTIONS – SHEET 2 OF 3																																																																										
4617-S3A					FOUNDATION SECTIONS – SHEET 3 OF 3																																																																										
4617-S4					ROOF FRAMING PLAN																																																																										
4617-S4A					MEZZANINE FLOOR FRAMING PLAN																																																																										
4617-S5					TYPICAL FRAME ELEVATION																																																																										
4617-S6					SIDEWALL FRAMING – FRAME LINE A																																																																										
4617-S7					SIDEWALL FRAMING – FRAME LINE B																																																																										
4617-S8					SIDEWALL FRAMING – FRAME LINE G																																																																										
4617-S9					ENDWALL FRAMING – FRAME LINE 1																																																																										
4617-S10					MEZZANINE FLOOR FRAMING SECTIONS																																																																										
4617-S11					STAIR PLAN, SECTIONS, & DETAILS																																																																										
4617-S12					STAIR MISCELLANEOUS DETAILS																																																																										
4617-M100.1					HVAC SCHEDULES AND NOTES																																																																										
4617-M100.2					HVAC SCHEDULES AND NOTES																																																																										
4617-M200.1					HVAC PLAN																																																																										
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4617-P300.1					PLUMBING RISER																																																																										
4617-P400.1					SANITARY WASTE AND COMPRESSED AIR RISER																																																																										
4617-P500.1					PLUMBING DETAILS																																																																										
4617-ES101					ELECTRICAL SITE PLAN																																																																										
4617-E100					ELECTRICAL NOTES & LEGEND																																																																										
4617-E101					LIGHTING PLAN																																																																										
4617-E102					POWER & AUXILIARY PLAN																																																																										
4617-E201					ENLARGED OFFICE PLANS																																																																										
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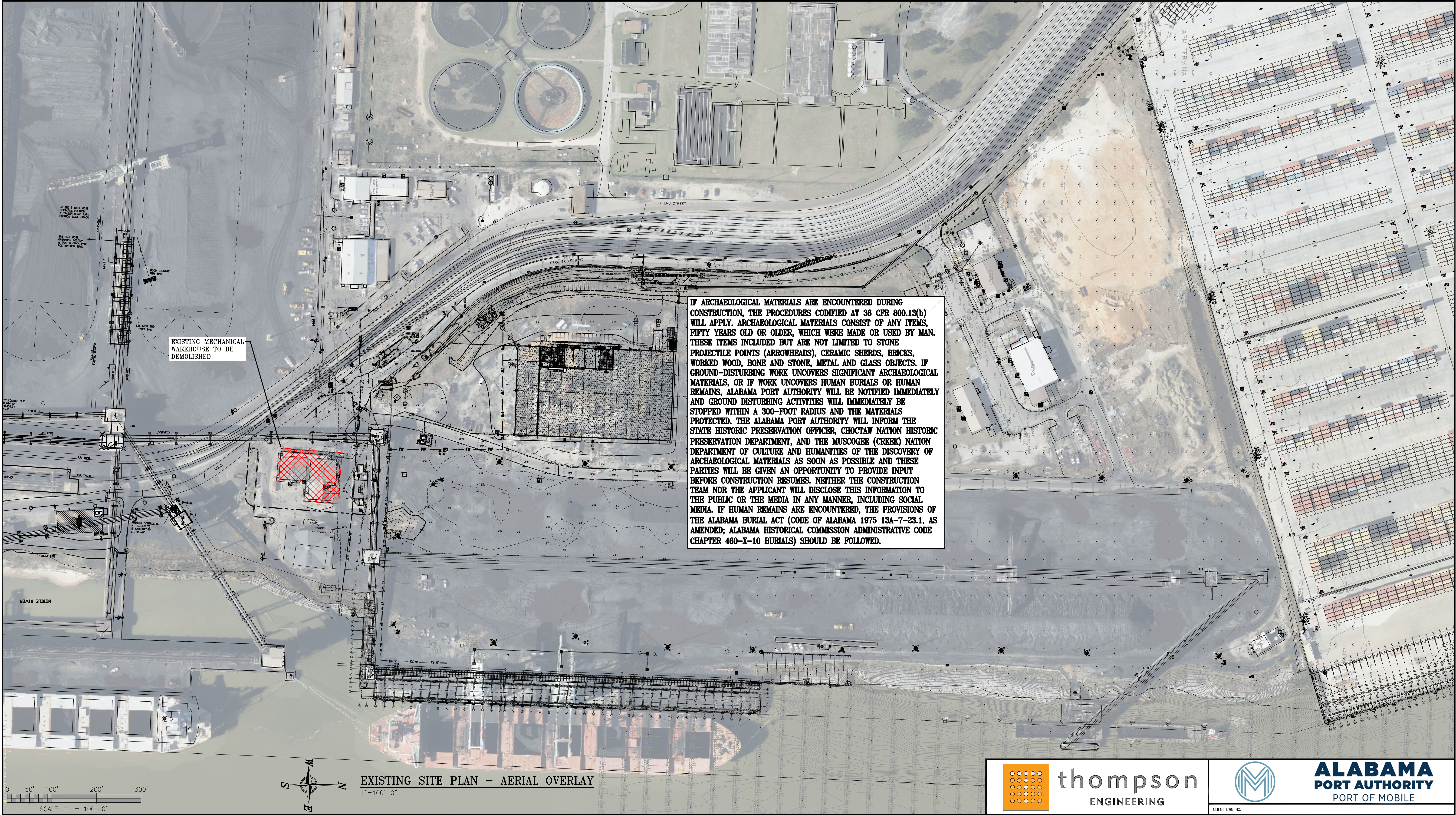
NOTES							
			E	ISSUED FOR BID	JLH	JEJ	RSG 01-14-26
			D	100% DESIGN REVIEW	JLH	JEJ	RSG 09-09-25
			C	95% DESIGN REVIEW	JLH	JEJ	RSG 08-08-25
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			A	30% DESIGN REVIEW	JLH	JEJ	RSG 04-11-25
		REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD DATE

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McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
EXISTING SITE PLAN & VICINITY MAP

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617	DWG NO: G3	REV: E
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NOTES							
		E	ISSUED FOR BID	JLH	JEJ	RSG	01-14-26
		D	100% DESIGN REVIEW	JLH	JEJ	RSG	09-09-25
		C	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25
		B	60% DESIGN REVIEW	JLH	JEJ	RSG	06-10-25
		A	30% DESIGN REVIEW	JLH	JEJ	RSG	04-11-25
REFERENCE DRAWINGS		NO.	REVISION	DRAWN	CK'D	APPD	DATE

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McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

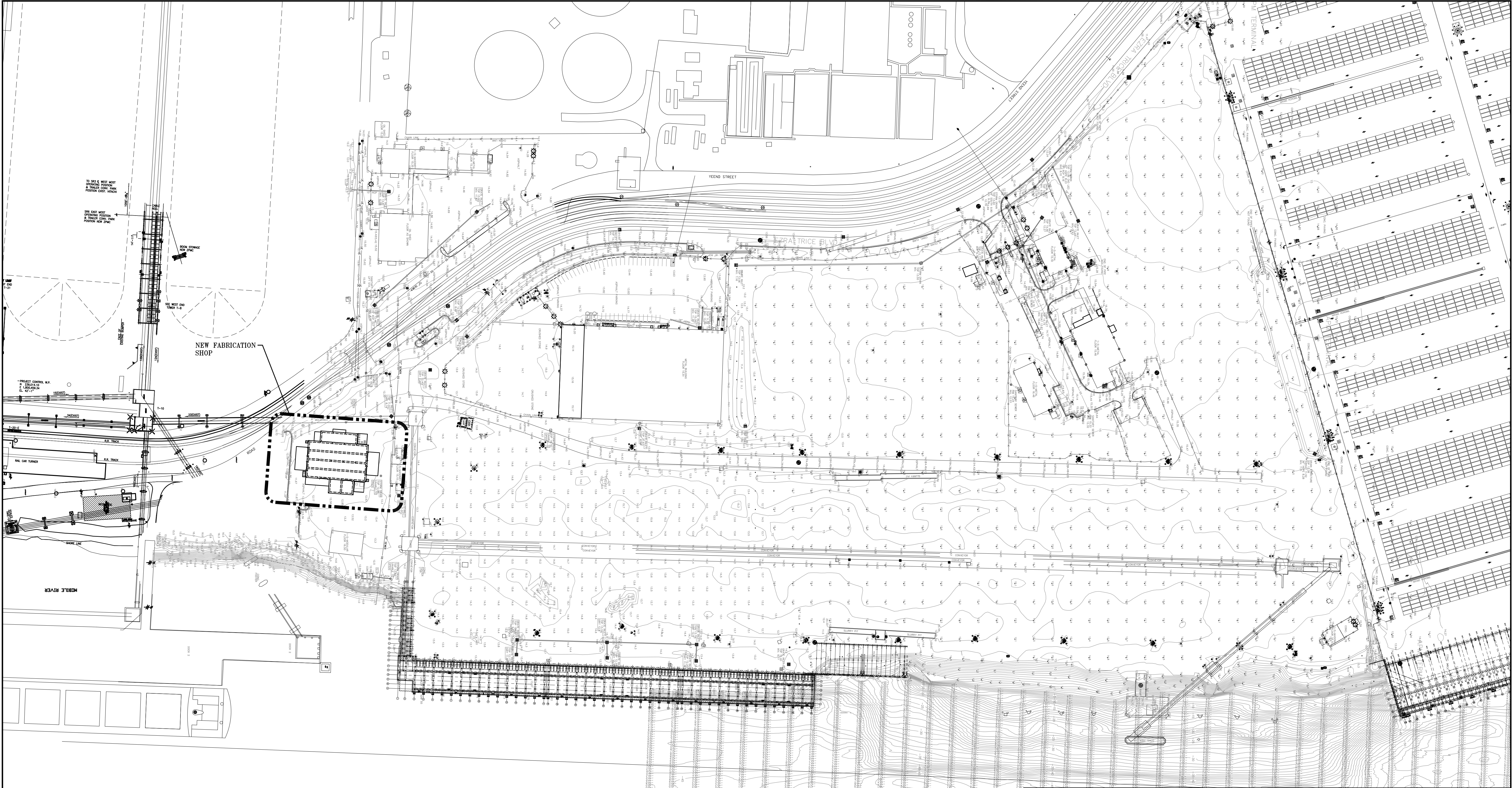
EXISTING SITE PLAN – AERIAL OVERLAY

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617

DWG NO: G3A

REV: E



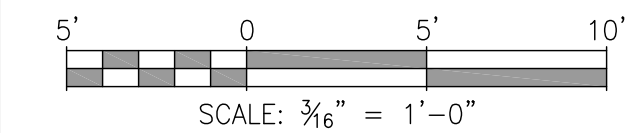
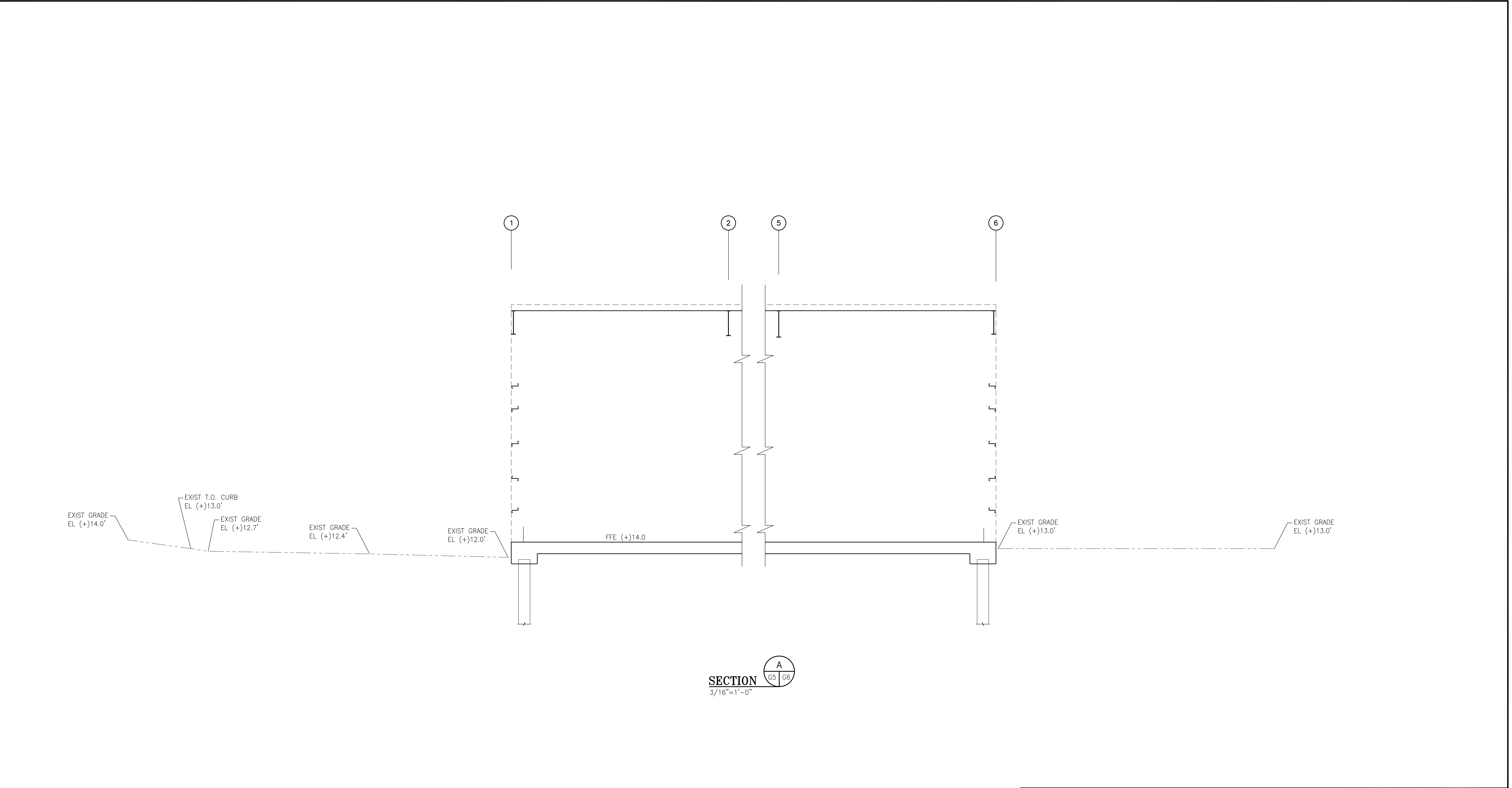
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McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
NEW SITE PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: G4 REV: E



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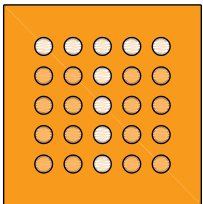
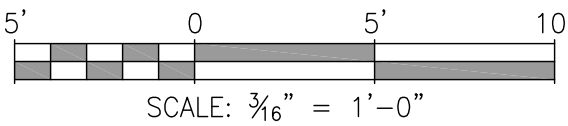
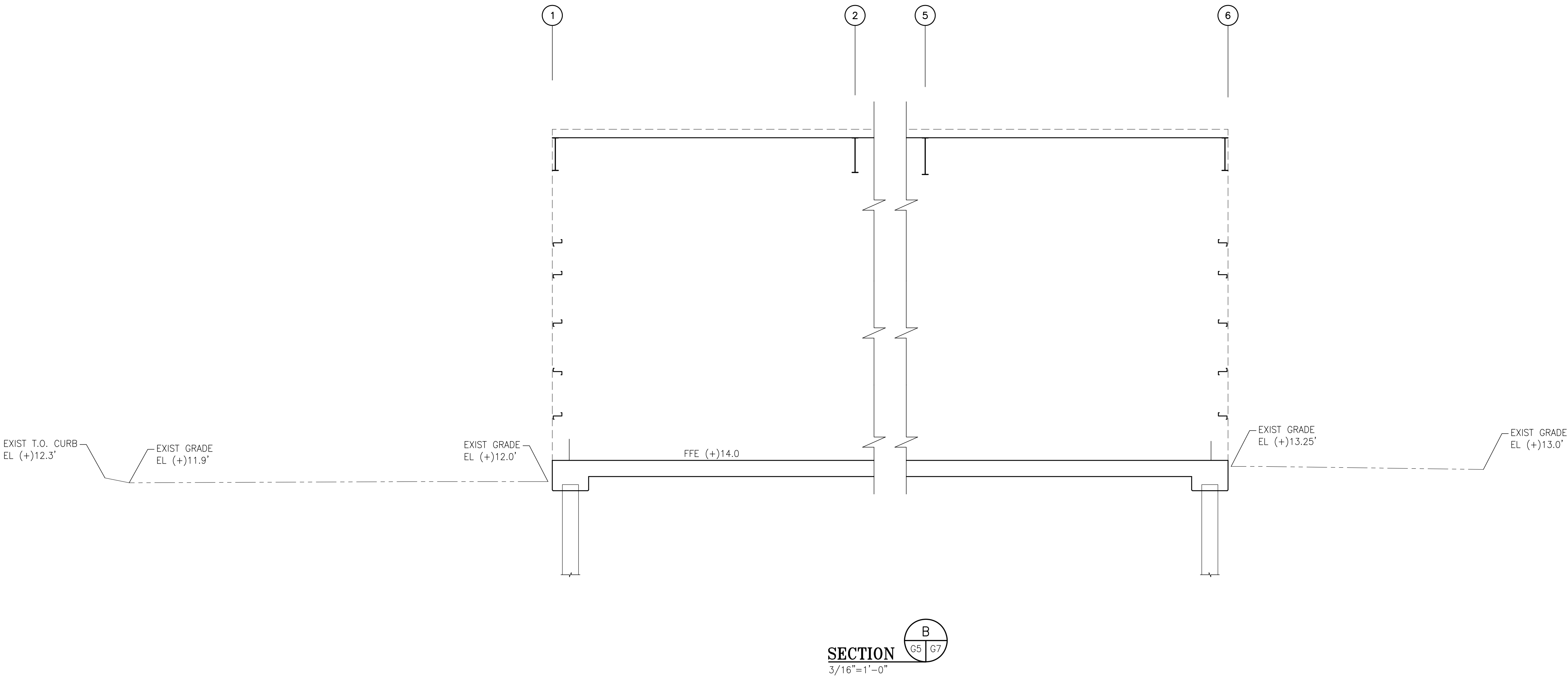
CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
CIVIL SECTIONS – SHEET 1 OF 4

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: G6 REV: D

NOTES							
		D	ISSUED FOR BID	JLH	JEJ	RSG	01-14-26
		C	100% DESIGN REVIEW	JLH	JEJ	RSG	09-09-25
		B	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25
		A	60% DESIGN REVIEW	JLH	JEJ	RSG	06-10-25
	REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE

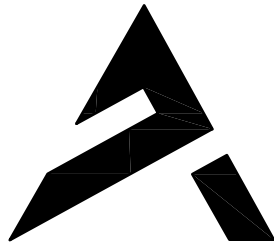


thompson
ENGINEERING



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:



APTIM
PORT SERVICES, LLC

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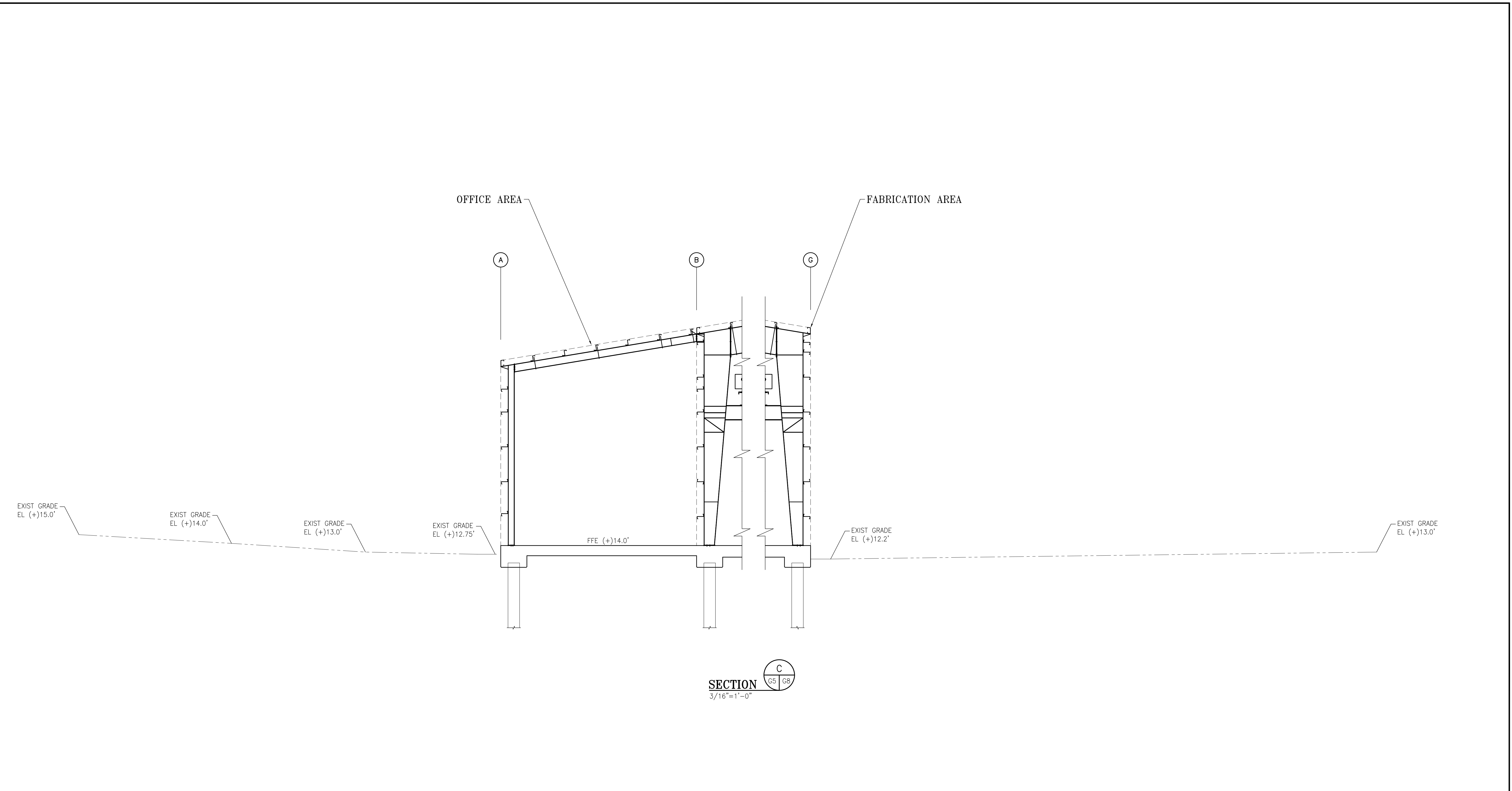
McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
CIVIL SECTIONS – SHEET 2 OF 4

FOR: ALABAMA PORT AUTHORITY

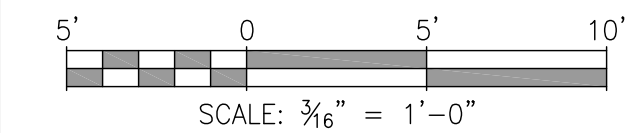
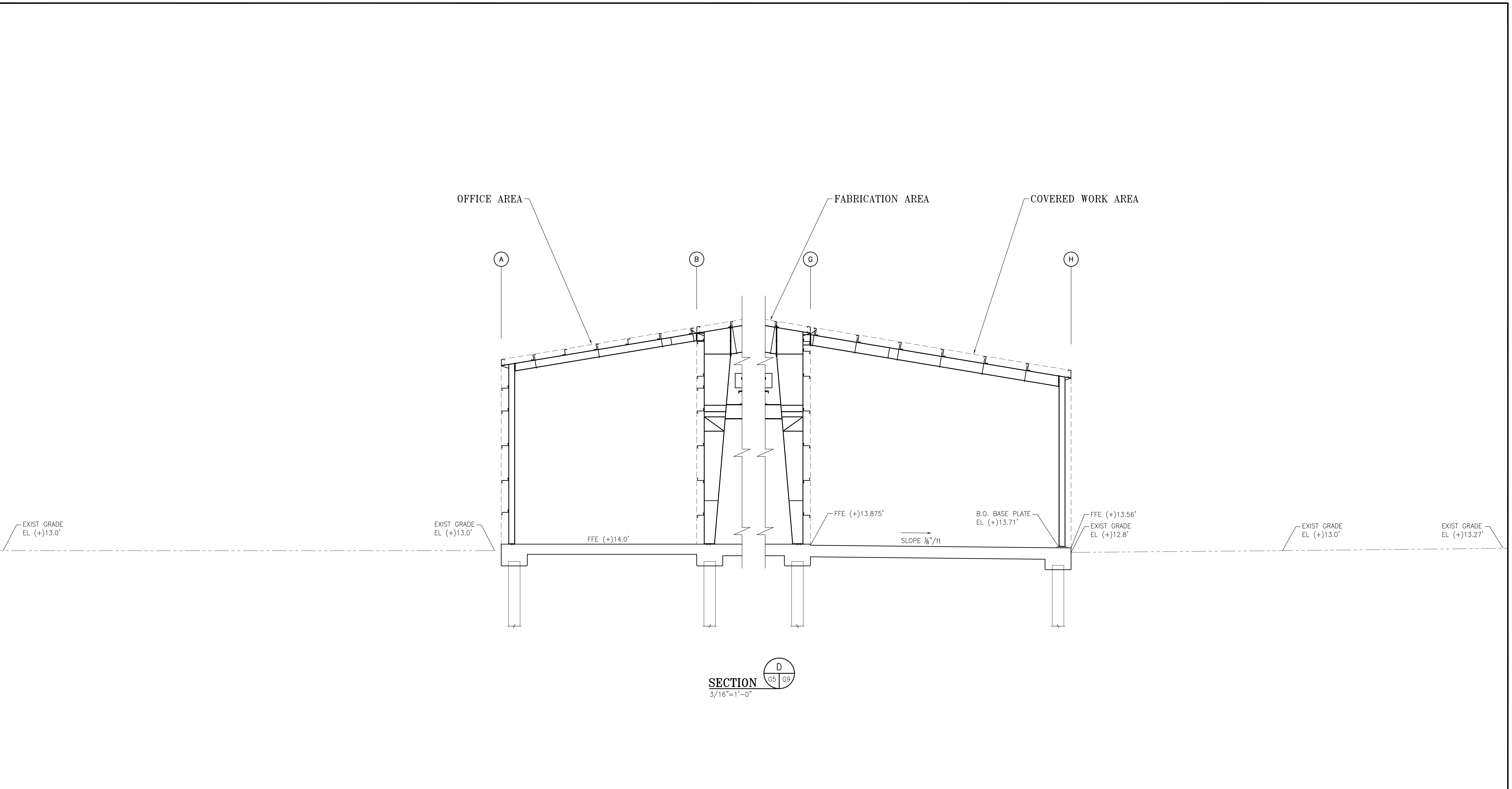
PROJECT NO: 4617

DWG NO: G7

REV: D

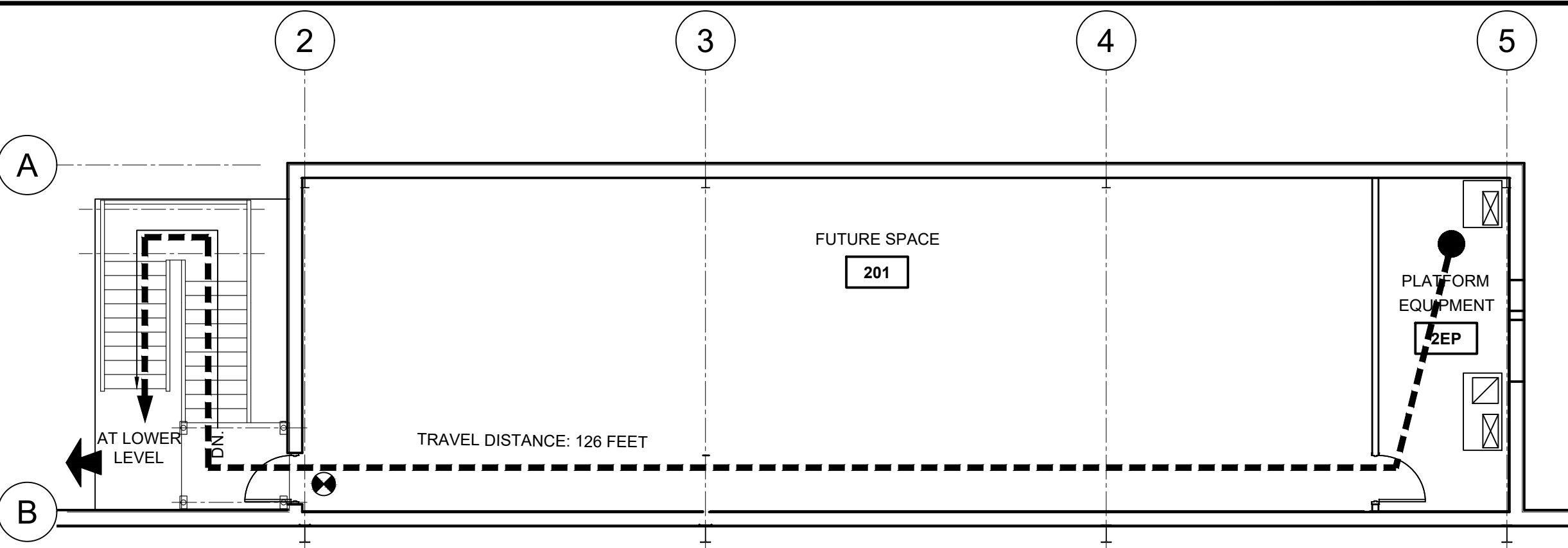
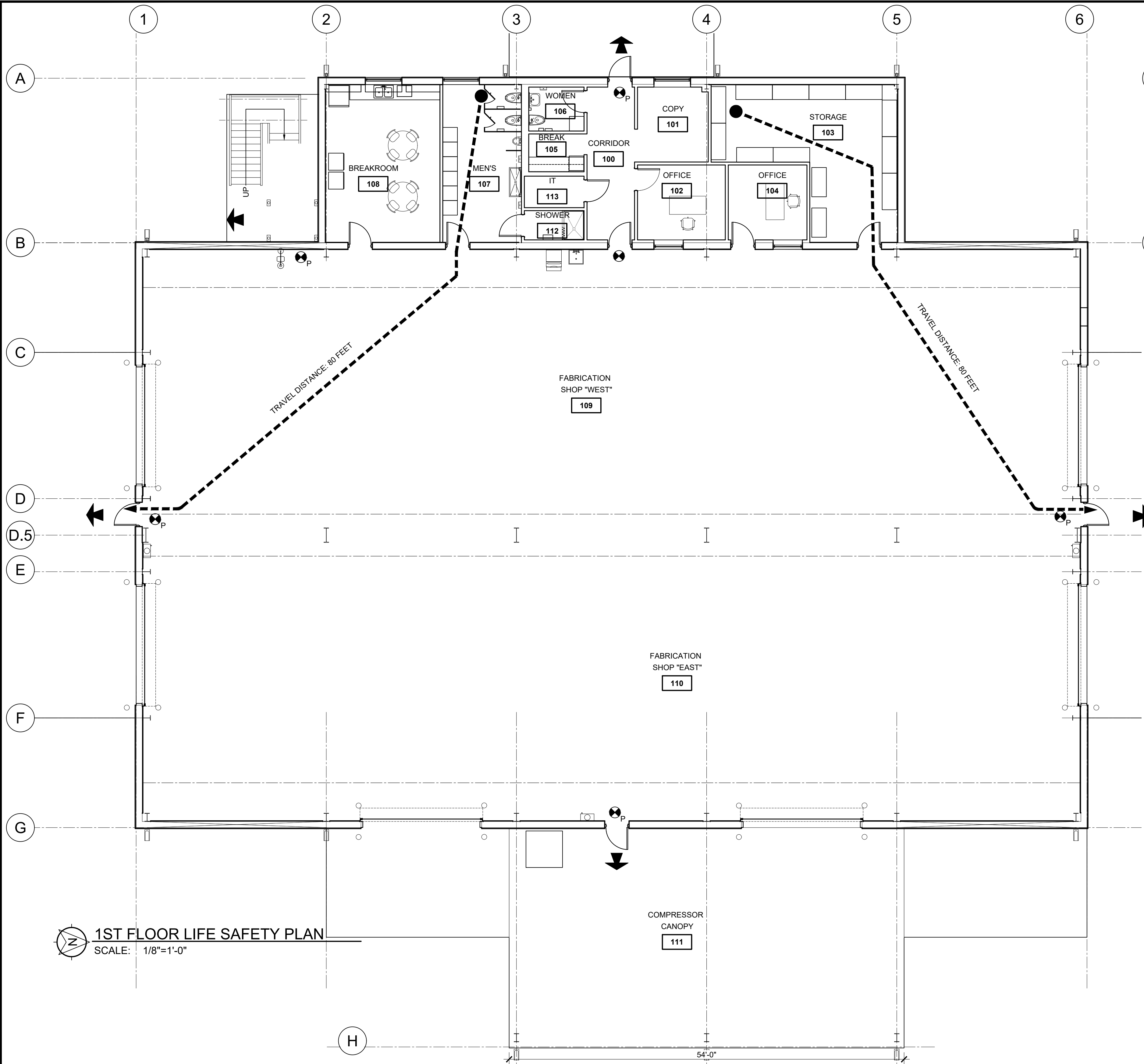


<div><div><div>5'05'</div><div>0</div><div>5'10'</div></div><div>SCALE: 3/16" = 1'-0"</div></div>							<div><div><div><div></div></div><div>thompson</div><div>ENGINEERING</div></div></div>				<div><div><div><div></div></div><div>ALABAMA</div><div>PORT AUTHORITY</div><div>PORT OF MOBILE</div></div></div>			
NOTES							CLIENT DWG NO:							
							<div><div><div><div></div></div><div>APTIM</div><div>PORT SERVICES, LLC</div></div><div><div>THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.</div></div></div>	McDUFFIE TERMINAL IMPROVEMENTS						
		D	ISSUED FOR BID	JLH	JEJ	RSG		01-14-26	NEW FABRICATION SHOP PACKAGE					
		C	100% DESIGN REVIEW	JLH	JEJ	RSG		09-09-25	CIVIL SECTIONS – SHEET 3 OF 4					
		B	95% DESIGN REVIEW	JLH	JEJ	RSG		08-08-25						
		A	60% DESIGN REVIEW	JLH	JEJ	RSG		06-10-25						
	REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD		DATE	DRAWN: JLH	CK'D: JEJ	APPD: RSG	DATE: 01-03-25	SCALE: AS NOTED	PROJECT NO: 4617



CLIENT DWG NO:	
McDUFFIE TERMINAL IMPROVEMENTS NEW FABRICATION SHOP PACKAGE CIVIL SECTIONS – SHEET 4 OF 4	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4617 DWG NO: G9 REV: D	

NOTES							
		D	ISSUED FOR BID	JLH	JEJ	RSG	01-14-26
		C	100% DESIGN REVIEW	JLH	JEJ	RSG	09-09-25
		B	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25
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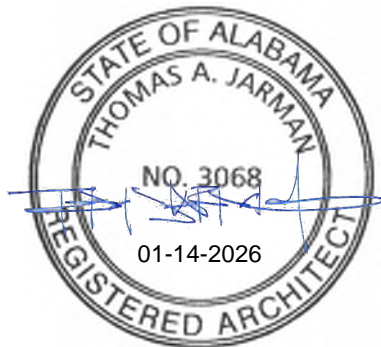
2ND FLOOR LIFE SAFETY PLAN
SCALE: 1/8"=1'-0"

LIFE SAFETY LEGEND:	
	TRAVEL DISTANCE
	EXIT DISCHARGE
	FIRE EXTINGUISHER CABINET (NFPA 10) FEC1 - SEMI RECESSED FEC2 - SURFACE MOUNTED
	ACCESSIBLE MEANS OF EGRESS
	EXIT WITH EXIT SIGN (P) EQUIPPED WITH PANIC HARDWARE
	EXIT WITH EXIT SIGN
	TWO HOUR FIRE BARRIER

OCCUPANCY AND EGRESS:	
OCCUPANCY CLASSIFICATION/LOAD FACTOR: FACTORY (F-1) = 100 GROSS S.F. PER PERSON STORAGE (S-1) = 300 GROSS S.F. PER PERSON BUSINESS (B) = 150 GROSS S.F. PER PERSON	
AREA SUMMARY FIRST LEVEL (S.F.): FACTORY = 10,058.81 S.F. STORAGE = 412.20 S.F. BUSINESS = 1,339.93 S.F. TOTAL GROSS = 11,810.94 S.F.	
OCCUPANCY LOAD: FACTORY = 101 PEOPLE STORAGE = 2 PEOPLE BUSINESS = 9 PEOPLE TOTAL OCCUPANTS = 112 PEOPLE	
EGRESS DOOR WIDTH REQUIRE: DOORS (20 IN./PERSON) = 23 IN.	
EGRESS DOOR WIDTH PROVIDED: (4) 36 IN. DOORS = 144 IN.	
MAXIMUM TRAVEL DISTANCE: REQUIRED = 200 FEET ACTUAL = 80 FEET	

OCCUPANCY AND EGRESS:	
OCCUPANCY CLASSIFICATION/LOAD FACTOR: STORAGE (S-1) = 300 GROSS S.F. PER PERSON	
AREA SUMMARY 2ND FLOOR (S.F.): STORAGE = 1751.83 S.F. TOTAL GROSS = 1751.83 S.F.	
OCCUPANCY LOAD: STORAGE = 6 PEOPLE TOTAL OCCUPANTS = 6 PEOPLE	
EGRESS DOOR WIDTH REQUIRE: DOORS (20 IN./PERSON) = 1.2 IN.	
EGRESS DOOR WIDTH PROVIDED: (1) 36 IN. DOORS = 36 IN.	
MAXIMUM TRAVEL DISTANCE: REQUIRED = 200 FEET ACTUAL = 120 FEET	

1ST FLOOR LIFE SAFETY PLAN
SCALE: 1/8"=1'-0"



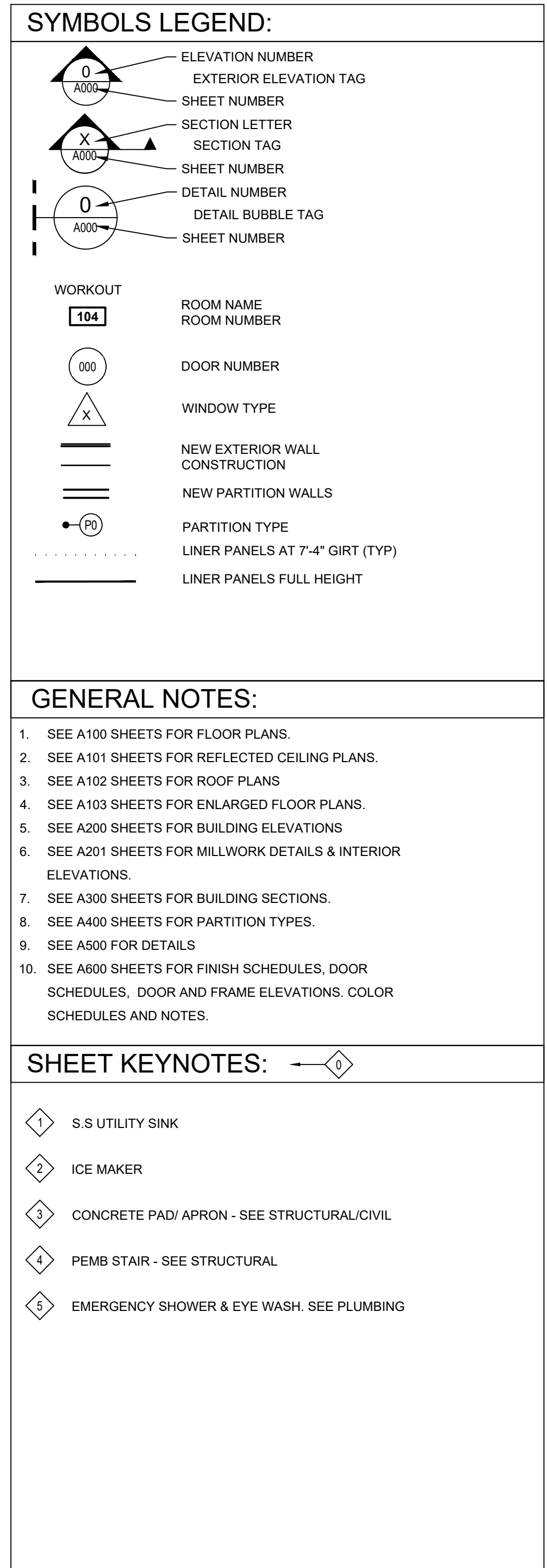
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		C	95% DESIGN REVIEW	DG	SM	SM	08-08-25
		B	60% DESIGN REVIEW	DG	SM	SM	06-11-25
		A	30% DESIGN REVIEW	DG	SM	SM	04-11-25
	REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE

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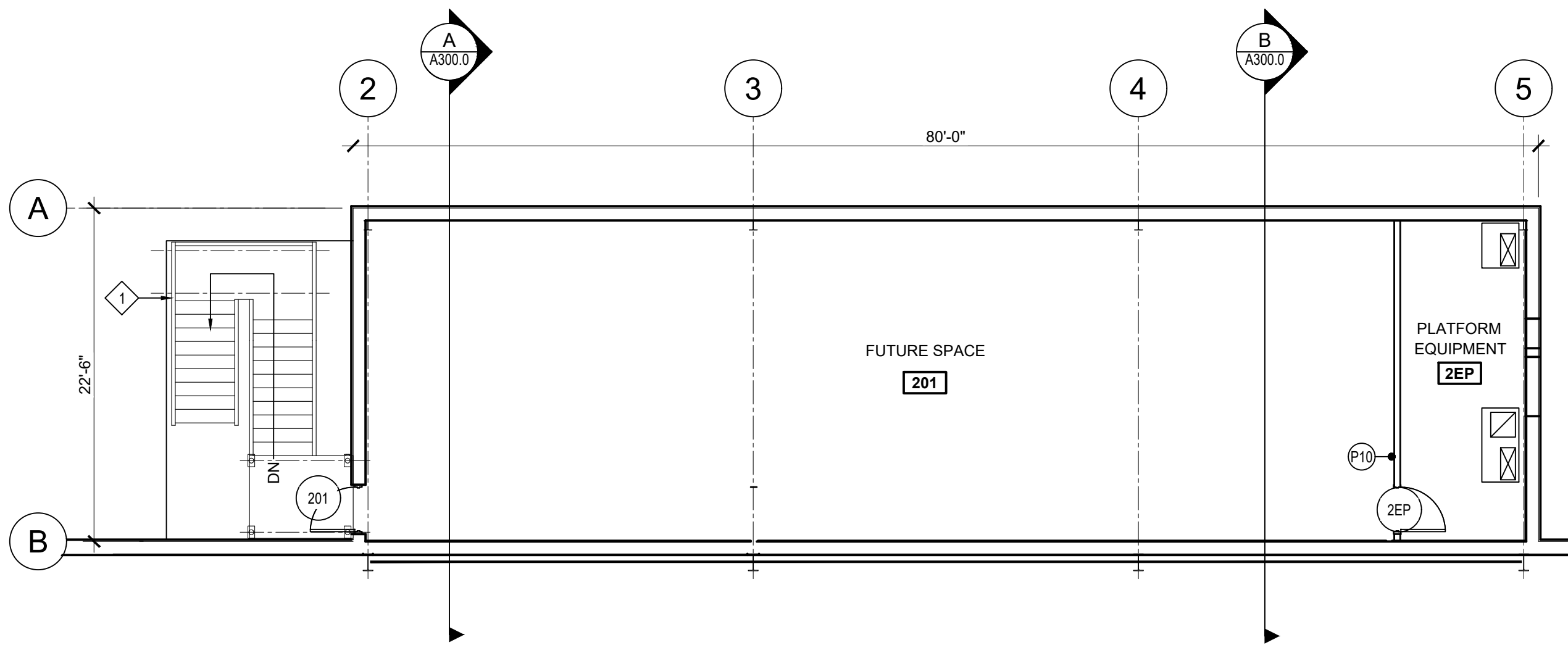
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DRAWN: DG	CK'D: TJ	APPD: TJ	DATE: 01-14-26	SCALE: AS NOTED
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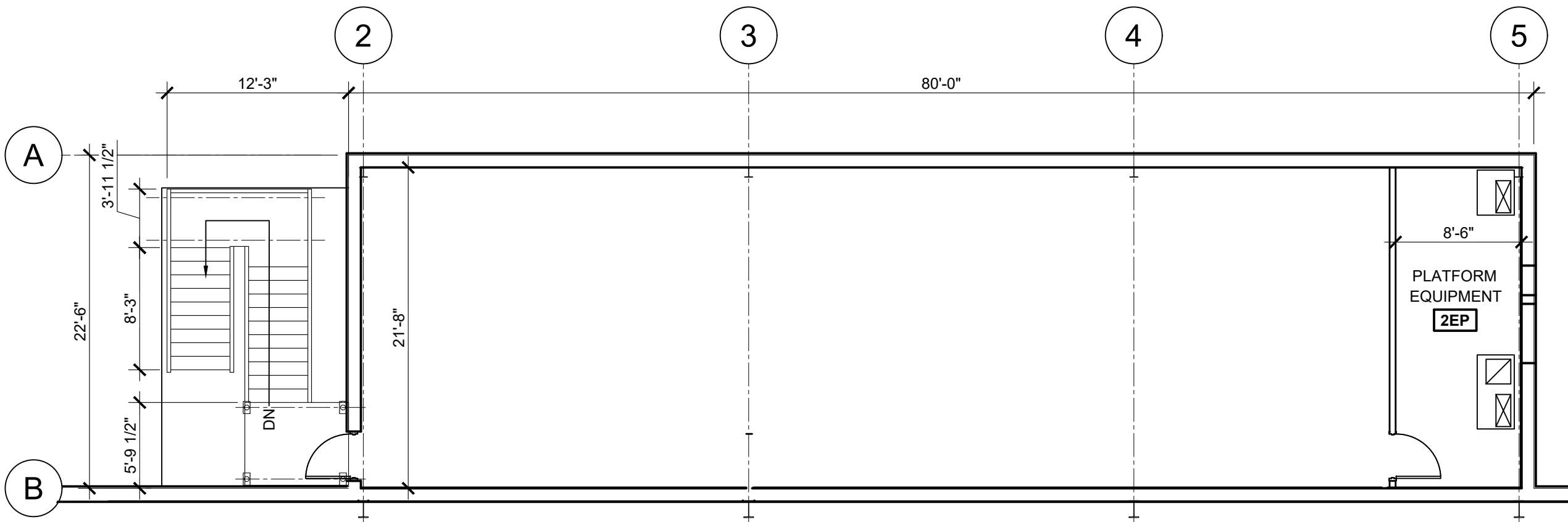
CLIENT DWG NO:	
McDUFFIE TERMINAL IMPROVEMENTS NEW FABRICATION SHOP PACKAGE 1ST AND 2ND FLOOR LIFE SAFETY PLAN	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4617	DWG NO: G102.0
REV: E	



P:\2024\Projects\1101\24-1101-0117 APTM Checkov Point Dev Phase V\Working\Architecture\04 Contract Document Phase\Drawings\A100.0 A100.2 FAR Floor Plan.dwg R: doornikz Printed: Thu 28-Jan-2026 - 04:30PM



OVERVIEW 2ND FLOOR PLAN
SCALE: 1/8"=1'-0"



DIMENSIONAL 2ND FLOOR PLAN
SCALE: 1/8"=1'-0"

SYMBOLS LEGEND:

- ELEVATION NUMBER
- EXTERIOR ELEVATION TAG
- SHEET NUMBER
- SECTION LETTER
- SECTION TAG
- SHEET NUMBER
- DETAIL NUMBER
- DETAIL BUBBLE TAG
- SHEET NUMBER

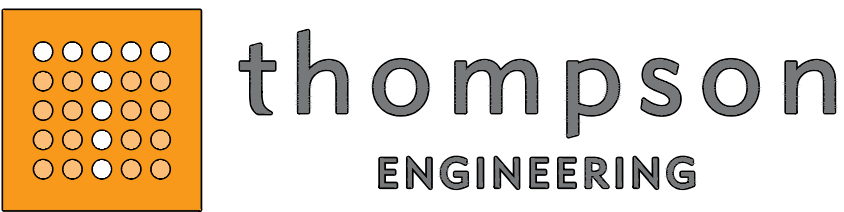
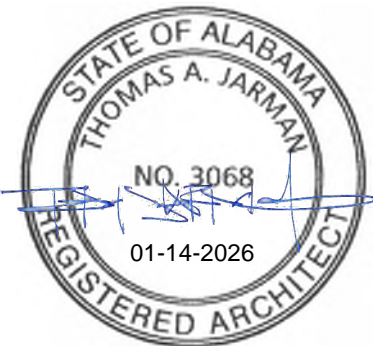
- WORKOUT
- ROOM NAME
- ROOM NUMBER
- DOOR NUMBER
- WINDOW TYPE
- NEW EXTERIOR WALL CONSTRUCTION
- NEW PARTITION WALLS
- PARTITION TYPE
- LINER PANELS FULL HEIGHT

GENERAL NOTES:

- SEE A100 SHEETS FOR FLOOR PLANS.
- SEE A101 SHEETS FOR REFLECTED CEILING PLANS.
- SEE A102 SHEETS FOR ROOF PLANS
- SEE A103 SHEETS FOR ENLARGED FLOOR PLANS.
- SEE A200 SHEETS FOR BUILDING ELEVATIONS
- SEE A201 SHEETS FOR MILLWORK DETAILS & INTERIOR ELEVATIONS.
- SEE A300 SHEETS FOR BUILDING SECTIONS.
- SEE A400 SHEETS FOR PARTITION TYPES.
- SEE A500 FOR DETAILS
- SEE A600 SHEETS FOR FINISH SCHEDULES, DOOR SCHEDULES, DOOR AND FRAME ELEVATIONS. COLOR SCHEDULES AND NOTES.

SHEET KEYNOTES:

- PEMB STAIR - SEE STRUCTURAL



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

OVERVIEW & DIMENSIONAL 2ND FLOOR PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO:4617

DWG NO:A100.1

REV: E

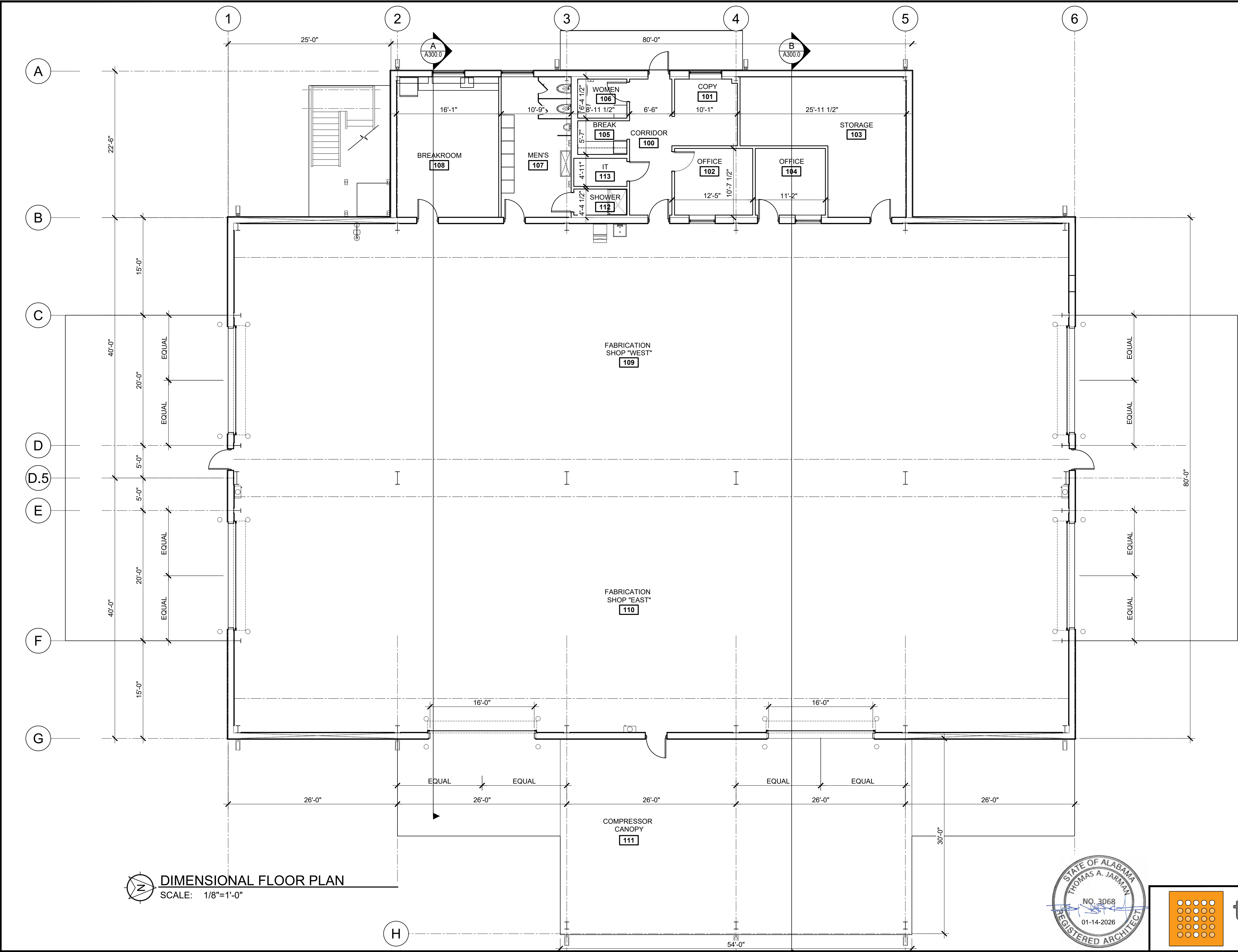


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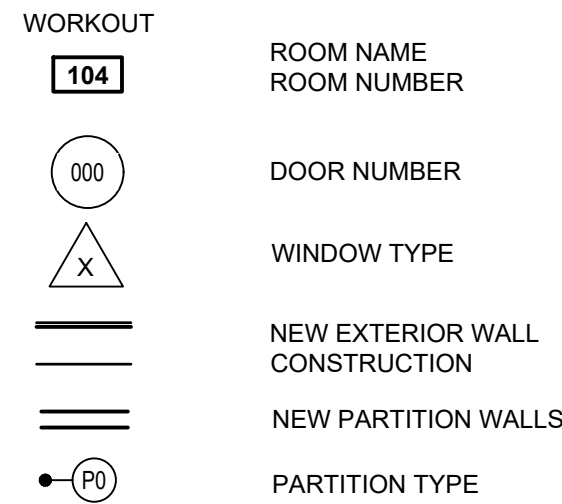
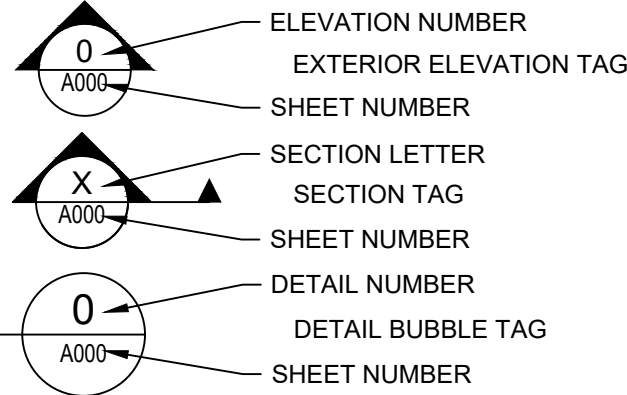
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NOTES

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	C	95% DESIGN REVIEW	DG	SM	SM	08-08-25	
	B	60% DESIGN REVIEW	DG	SM	SM	06-11-25	
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REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE	



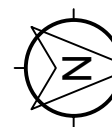
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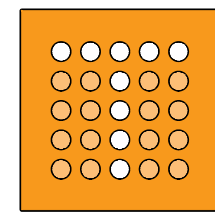
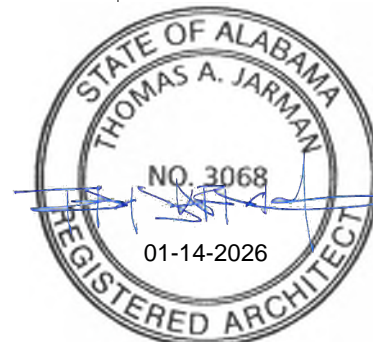
GENERAL NOTES:

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- SEE A101 SHEETS FOR REFLECTED CEILING PLANS.
- SEE A102 SHEETS FOR ROOF PLANS
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- SEE A400 SHEETS FOR PARTITION TYPES.
- SEE A500 FOR DETAILS
- SEE A600 SHEETS FOR FINISH SCHEDULES, DOOR SCHEDULES, DOOR AND FRAME ELEVATIONS. COLOR SCHEDULES AND NOTES.

SHEET KEYNOTES:



DIMENSIONAL FLOOR PLAN
SCALE: 1/8"=1'-0"



thompson
ENGINEERING



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
DIMENSIONAL 1ST FLOOR PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617

DWG NO: A100.2

REV: E

E ISSUED FOR BID

DG TJ TJ 01-14-26

D 100% DESIGN REVIEW

DG SM SM 09-09-25

C 95% DESIGN REVIEW

DG SM SM 08-08-25

B 60% DESIGN REVIEW

DG SM SM 06-11-25

A 30% DESIGN REVIEW

DG SM SM 04-11-25

REFERENCE DRAWINGS

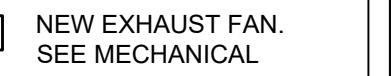
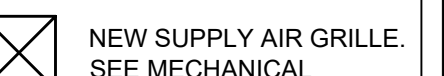
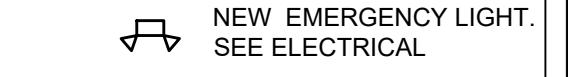
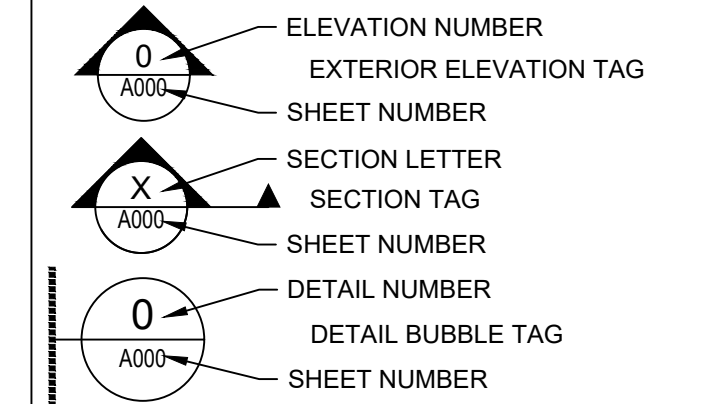
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REVISION

DRAWN CK'D APPD DATE


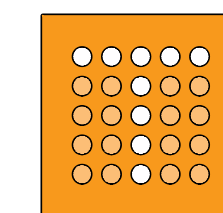
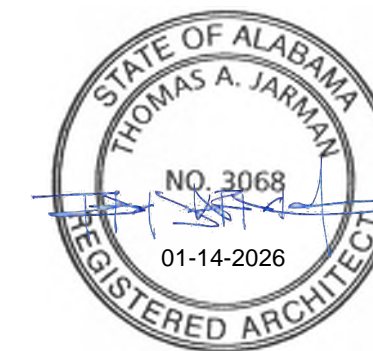
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DRAWN: DG CK'D: TJ APPD: TJ DATE: 01-14-26 SCALE: AS NOTED



1. SEE A100 SHEETS FOR FLOOR PLANS.
2. SEE A101 SHEETS FOR REFLECTED CEILING PLANS.
3. SEE A102 SHEETS FOR ROOF PLANS
4. SEE A103 SHEETS FOR ENLARGED FLOOR PLANS.
5. SEE A200 SHEETS FOR BUILDING ELEVATIONS
6. SEE A201 SHEETS FOR MILLWORK DETAILS & INTERIOR ELEVATIONS.
7. SEE A300 SHEETS FOR BUILDING SECTIONS.
8. SEE A400 SHEETS FOR PARTITION TYPES.
9. SEE A500 FOR DETAILS
10. SEE A600 SHEETS FOR FINISH SCHEDULES, DOOR SCHEDULES, DOOR AND FRAME ELEVATIONS. COLOR SCHEDULES AND NOTES.

- 1 PRE-ENGINEERED METAL BUILDING CANOPY
- 2 PRE-FINISHED METAL CANOPY



thompson
ENGINEERING



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
1ST FLOOR REFLECTED CEILING PLAN

ED FOR: ALABAMA PORT AUTHORITY

PROJECT NO:4617

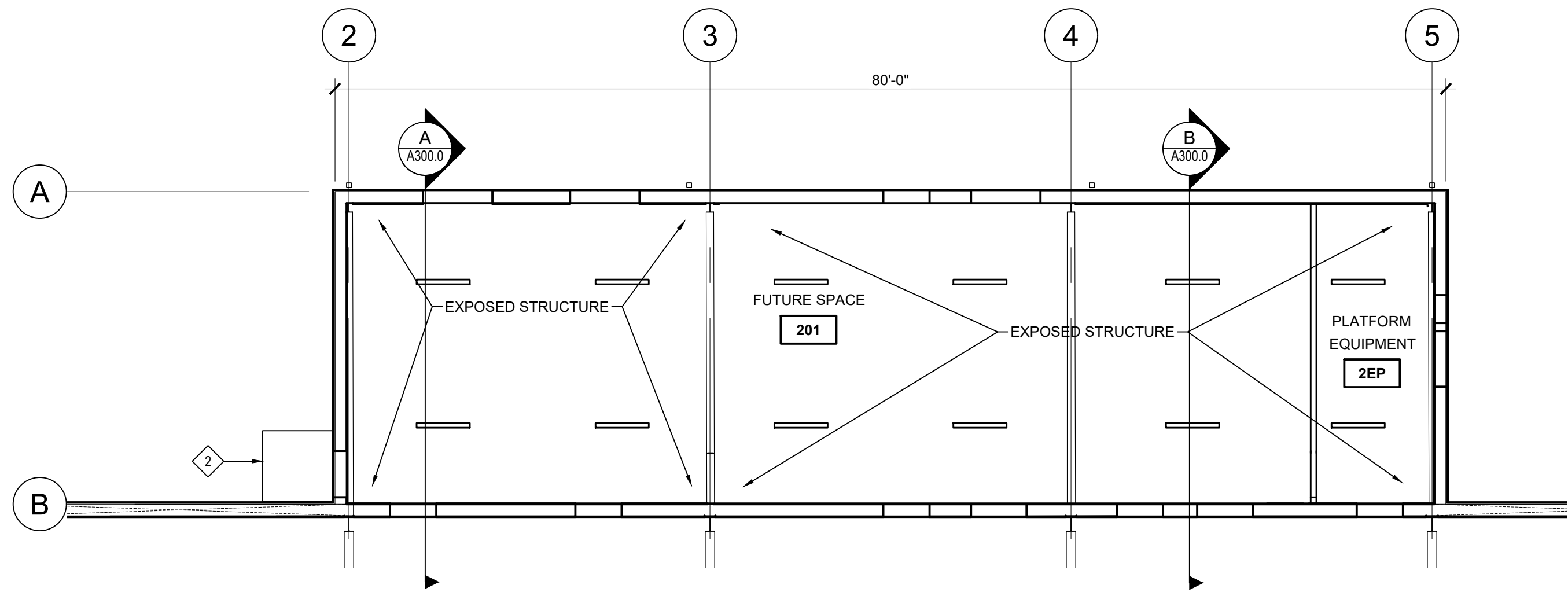
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NOTES							
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		C	95% DESIGN REVIEW	DG	SM	SM	08-08-2
		B	60% DESIGN REVIEW	DG	SM	SM	06-11-2
		A	30% DESIGN REVIEW	DG	SM	SM	04-11-2
	REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE

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DRAWN: DG	CK'D: TJ	APPD: TJ	DATE: 01-14-26	SCALE: AS NOTED
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2ND FLOOR REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"

SYMBOLS LEGEND:

ELEVATION NUMBER
EXTERIOR ELEVATION TAG
SHEET NUMBER

SECTION LETTER
SECTION TAG
SHEET NUMBER

DETAIL NUMBER
DETAIL BUBBLE TAG
SHEET NUMBER

WORKOUT

ROOM NAME
ROOM NUMBER

NEW EXTERIOR WALL
CONSTRUCTION

NEW PARTITION WALLS

NEW 2x2 LAY-IN ACOUSTICAL
CEILING TILE AND GRID

GYPSUM CEILING. SEE
FINISH SCHEDULE

NEW EXIT SIGN / EMERGENCY
LIGHT. SEE ELECTRICAL

NEW 2x4 LIGHT FIXTURE.
SEE ELECTRICAL

DOWNLIGHT SURFACE MOUNTED.
SEE ELECTRICAL

NEW HIGH BAY FIXTURE-
SEE ELECTRICAL

NEW 4' LINEAR PENDANT
- SEE ELECTRICAL

NEW EMERGENCY LIGHT.
SEE ELECTRICAL

NEW SUPPLY AIR GRILLE.
SEE MECHANICAL

NEW RETURN GRILLE.
SEE MECHANICAL

NEW EXHAUST FAN.
SEE MECHANICAL

GENERAL NOTES:

- SEE A100 SHEETS FOR FLOOR PLANS.
- SEE A101 SHEETS FOR REFLECTED CEILING PLANS.
- SEE A102 SHEETS FOR ROOF PLANS
- SEE A103 SHEETS FOR ENLARGED FLOOR PLANS.
- SEE A200 SHEETS FOR BUILDING ELEVATIONS
- SEE A201 SHEETS FOR MILLWORK DETAILS & INTERIOR ELEVATIONS.
- SEE A300 SHEETS FOR BUILDING SECTIONS.
- SEE A400 SHEETS FOR PARTITION TYPES.
- SEE A500 FOR DETAILS
- SEE A600 SHEETS FOR FINISH SCHEDULES, DOOR SCHEDULES, DOOR AND FRAME ELEVATIONS. COLOR SCHEDULES AND NOTES.

SHEET KEYNOTES:

PRE-ENGINEERED METAL BUILDING CANOPY

PRE-FINISHED METAL CANOPY

ALABAMA
PORT AUTHORITY
PORT OF MOBILE

NOTES							
		E	ISSUED FOR BID	DG	TJ	TJ	01-14-26
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		C	95% DESIGN REVIEW	DG	SM	SM	08-08-25
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DRAWN: DG CK'D: TJ APPD: TJ DATE: 01-14-26 SCALE: AS NOTED

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
2ND FLOOR REFLECTED CEILING PLAN

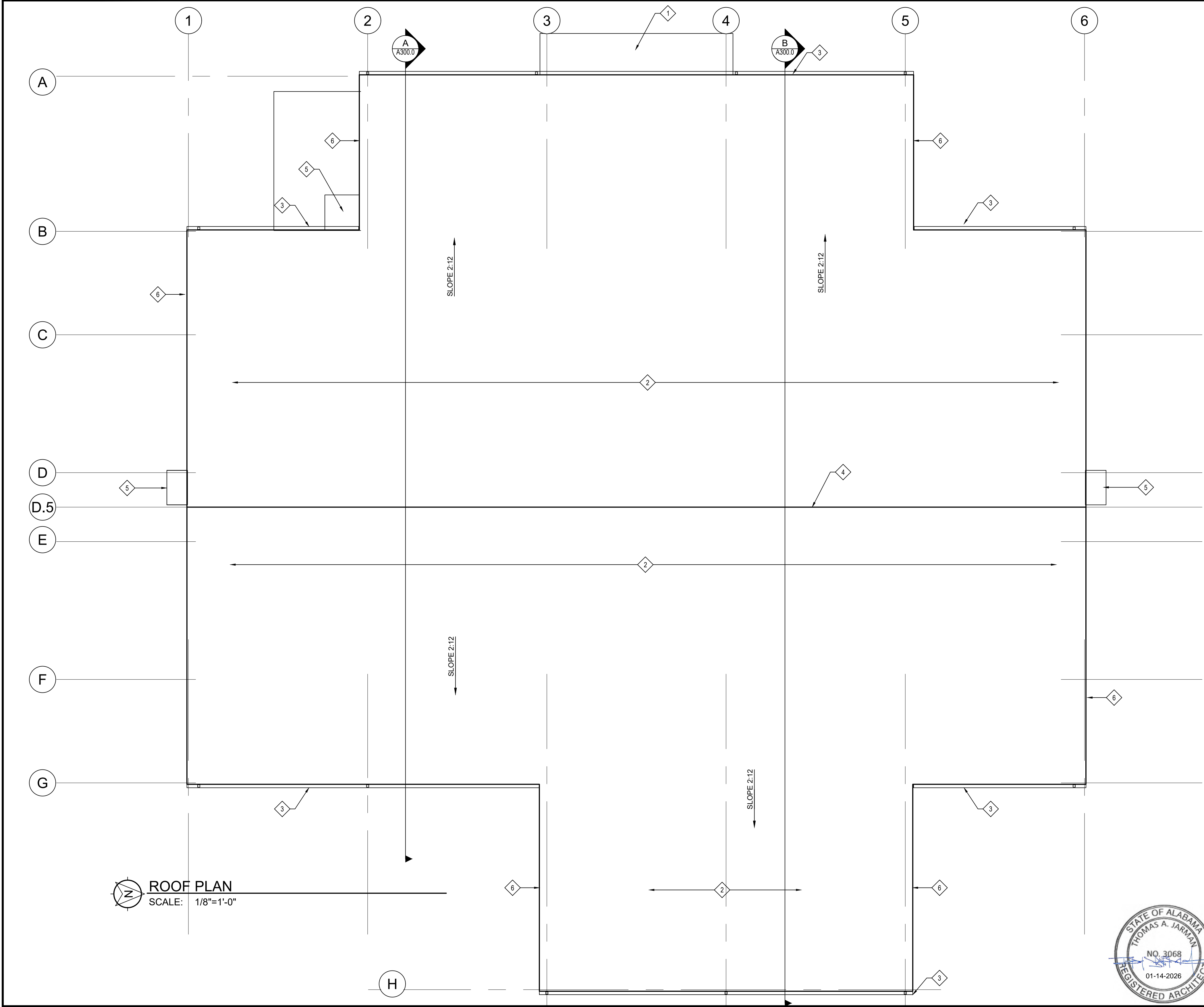
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617

DWG NO: A101.2

REV: E

Form: 006-030-00-F0-02104 Aptim AHS Data



SYMBOLS LEGEND:

- ELEVATION NUMBER
- EXTERIOR ELEVATION TAG
- SECTION LETTER
- SECTION TAG
- SHEET NUMBER
- DETAIL NUMBER
- DETAIL BUBBLE TAG
- SHEET NUMBER

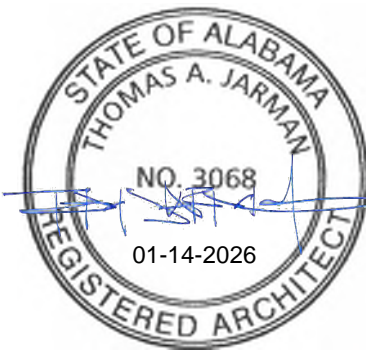
GENERAL NOTES:

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- SEE A500 FOR DETAILS
- SEE A600 SHEETS FOR FINISH SCHEDULES, DOOR SCHEDULES, DOOR AND FRAME ELEVATIONS. COLOR SCHEDULES AND NOTES.

SHEET KEYNOTES:

- PRE-ENGINEERED METAL BUILDING CANOPY
- PRE-ENGINEERED METAL BUILDING STANDING SEAM ROOFING
- PRE-FINISHED METAL EDGE FLASHING, GUTTER AND DOWNSPOUTS - PROVIDE SPLASH BLOCK AT EACH DOWNSPOUT
- PRE-FINISHED METAL RIDGE FLASHING
- PRE-FINISHED METAL CANOPY
- METAL EDGE FLASHING / TRIM

ROOF PLAN
SCALE: 1/8"=1'-0"



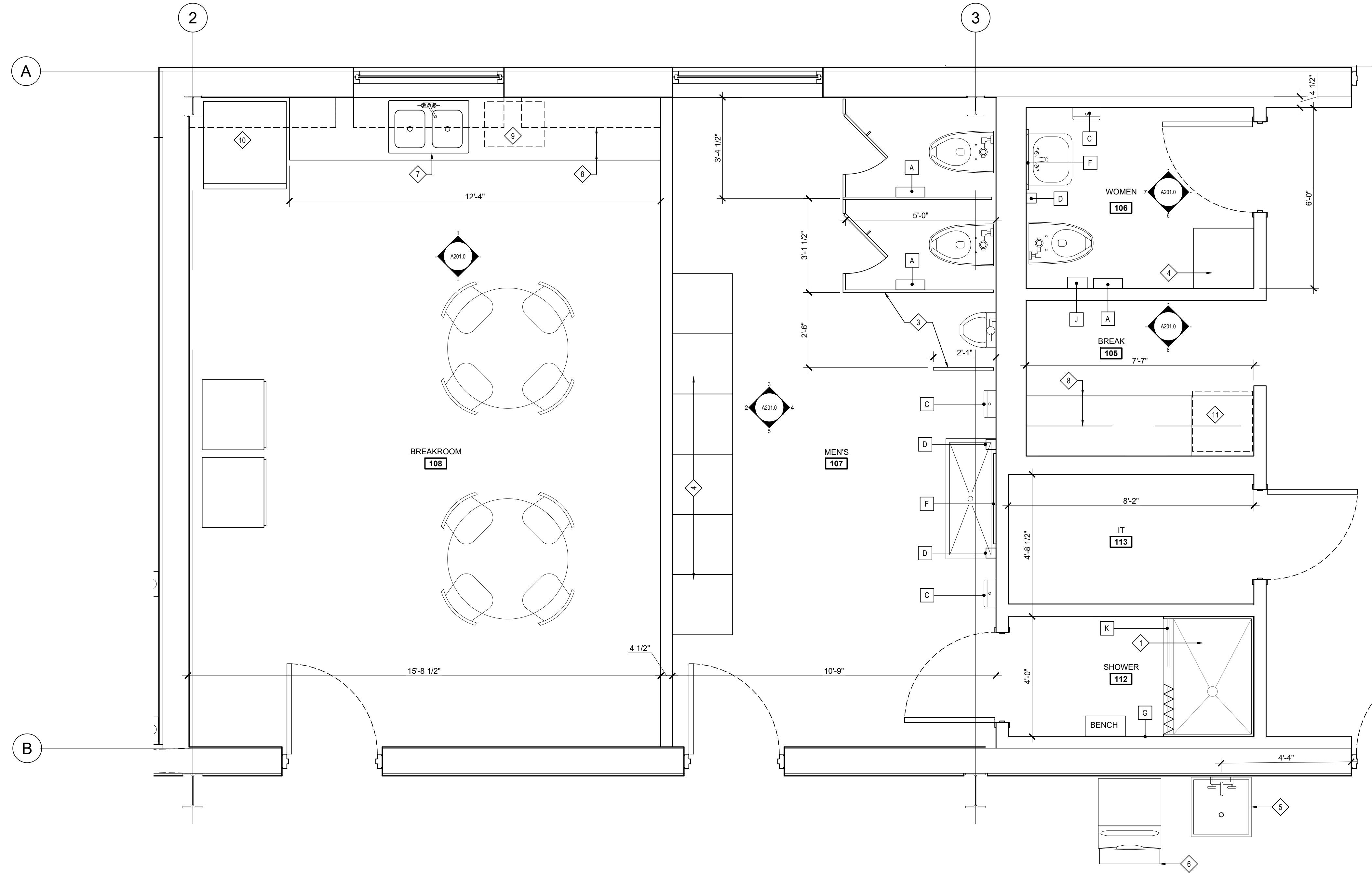
ALABAMA
PORT AUTHORITY
PORT OF MOBILE

NOTES							
		E	ISSUED FOR BID	DG	TJ	TJ	01-14-26
		D	100% DESIGN REVIEW	DG	SM	SM	09-09-25
		C	95% DESIGN REVIEW	DG	SM	SM	08-08-25
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		A	30% DESIGN REVIEW	DG	SM	SM	04-11-25
	REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE



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CLIENT DWG NO:	
McDUFFIE TERMINAL IMPROVEMENTS NEW FABRICATION SHOP PACKAGE ROOF PLAN	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4617	DWG NO: A102.0
REV: E	



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

SYMBOLS LEGEND:

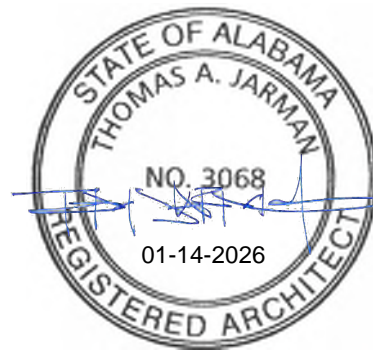
- ELEVATION NUMBER
EXTERIOR ELEVATION TAG
SHEET NUMBER
- SECTION LETTER
SECTION TAG
SHEET NUMBER
- DETAIL NUMBER
DETAIL BUBBLE TAG
SHEET NUMBER
- ELEVATION NUMBER
INTERIOR ELEVATIONS TAG
SHEET NUMBER
- WORKOUT
ROOM NAME
ROOM NUMBER
- DOOR NUMBER
- WINDOW TYPE
- NEW EXTERIOR WALL
CONSTRUCTION
- NEW PARTITION WALLS
- PARTITION TYPE

TOILET ACCESSORIES

- A = TOILET TISSUE DISPENSER
- B = GRAB BAR B1-42" L, B2 -36"L, B3-18"L
- C = PAPER TOWEL DISPENSER
- D = SOAP DISPENSER
- E = SHOWER DOOR UNIT
- F = WALL MIRROR
- G = ROBE/TOWEL HOOK
- H = MOP HOOK
- J = SANITARY NAPKIN DISPOSAL
- K = SHOWER ROD, HOOKS & CURTAIN

SHEET KEYNOTES:

- 1 PRE MANUFACTURED SOLID PLASTIC SHOWER UNITS WITH TERRAZZO SHOWER PAN
- 2 NOT USED
- 3 SOLID PLASTIC TOILET PARTITIONS
- 4 STEEL LOCKERS
- 5 S.S UTILITY SINK
- 6 ICE MAKER
- 7 DROP-IN STAINLESS STEEL SINK
- 8 PLASTIC LAMINATE CABINETS (BASE, TOP, BACK SPLASH AND UPPER)
- 9 COUNTERTOP MICROWAVE (PROVIDED BY OWNER)
- 10 RESIDENTIAL REFRIGERATOR (PROVIDED BY OWNER)
- 11 UNDER CABINET REFRIGERATOR (PROVIDED BY OWNER)



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ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

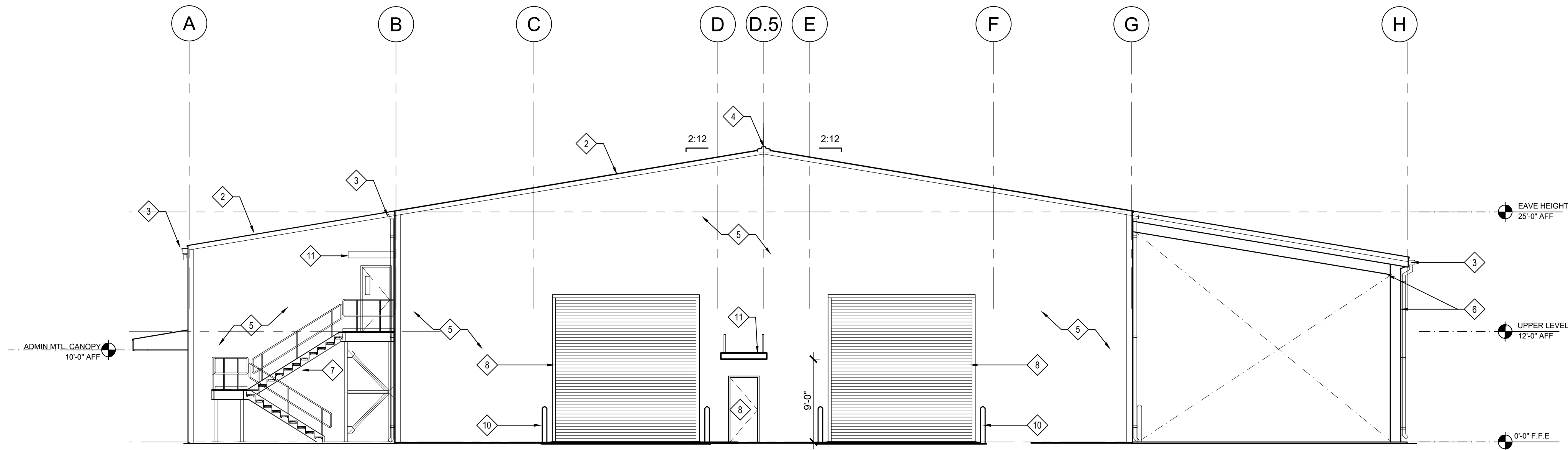
ENLARGED FLOOR PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617

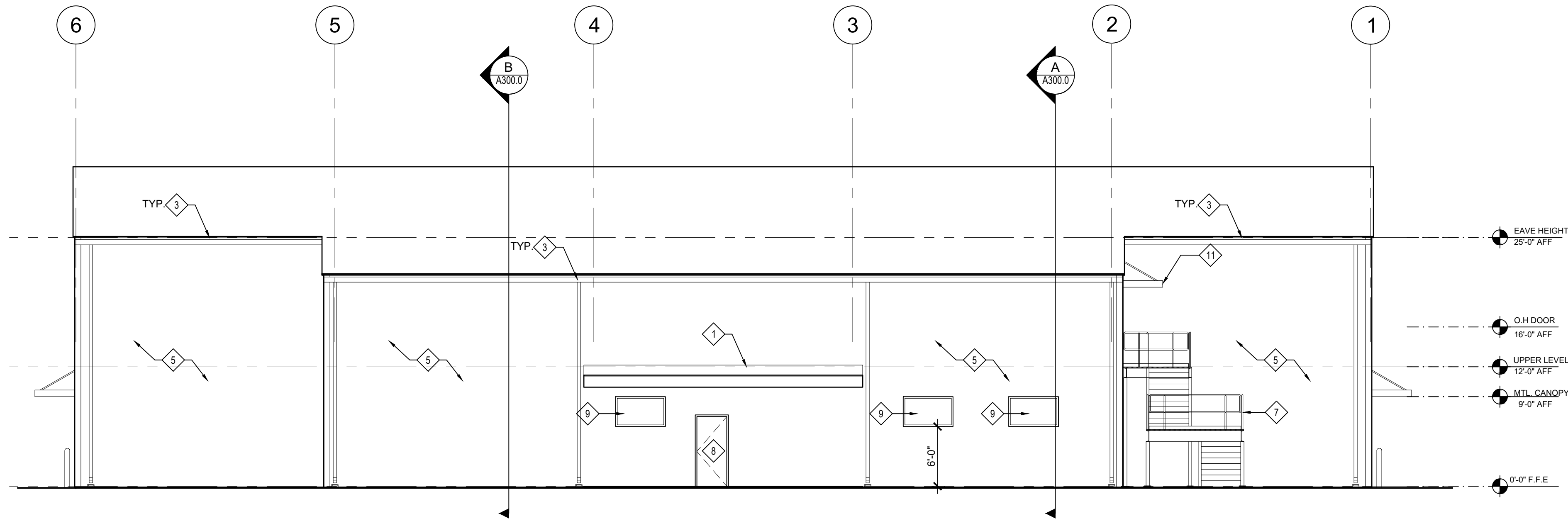
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REV: E

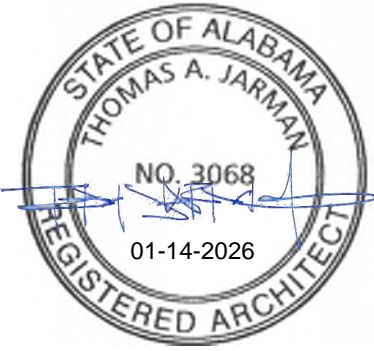


- SHEET KEYNOTES:** ← 0
- 1 PRE-ENGINEERED METAL BUILDING CANOPY
 - 2 PRE-ENGINEERED METAL BUILDING STANDING SEAM ROOFING
 - 3 PRE-FINISHED METAL EDGE FLASHING, GUTTER AND DOWNSPOUTS - PROVIDE SPLASH BLOCK AT EACH DOWNSPOUT
 - 4 PRE-FINISHED METAL RIDGE FLASHING
 - 5 PRE-ENGINEERED METAL WALL PANELS
 - 6 METAL BUILDING FRAME
 - 7 PRE-FINISHED METAL STAIR, RAILING AND HANDRAIL-SEE STRUCTURAL
 - 8 DOOR - SEE SCHEDULE
 - 9 WINDOW - SEE SCHEDULE
 - 10 BOLLARDS - SEE STRUCTURAL
 - 11 PRE-FINISHED METAL CANOPY

1 EXTERIOR ELEVATION
SCALE: 1/8"=1'-0"

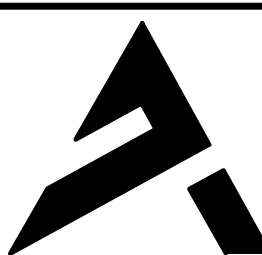


2 EXTERIOR ELEVATION
SCALE: 1/8"=1'-0"



NOTES	

NO.	REVISION	DRAWN	CK'D	APPD	DATE
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C	95% DESIGN REVIEW	DG	SM	SM	08-08-25
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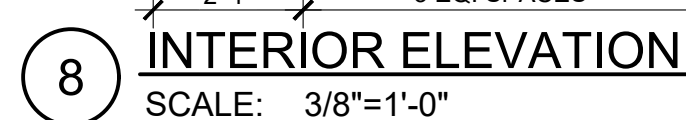
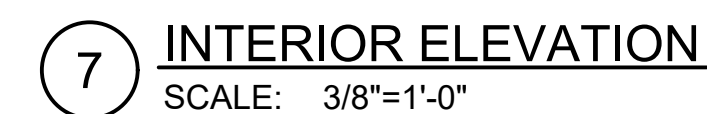
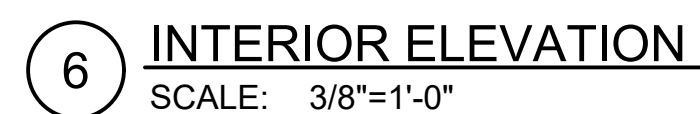
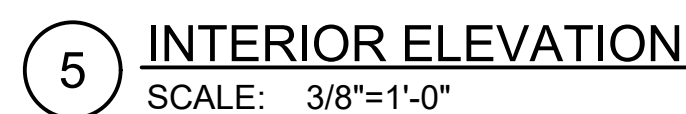
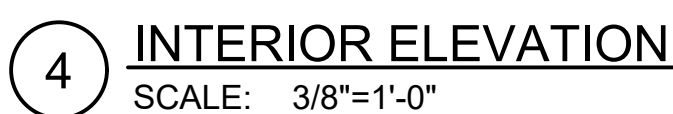
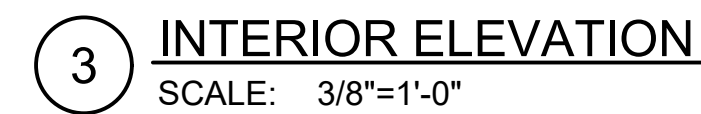
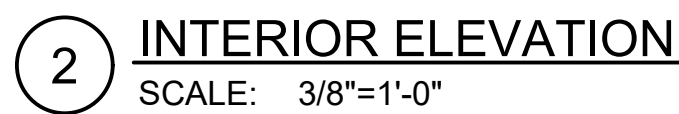
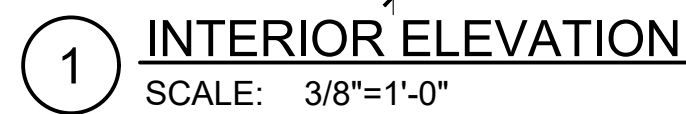
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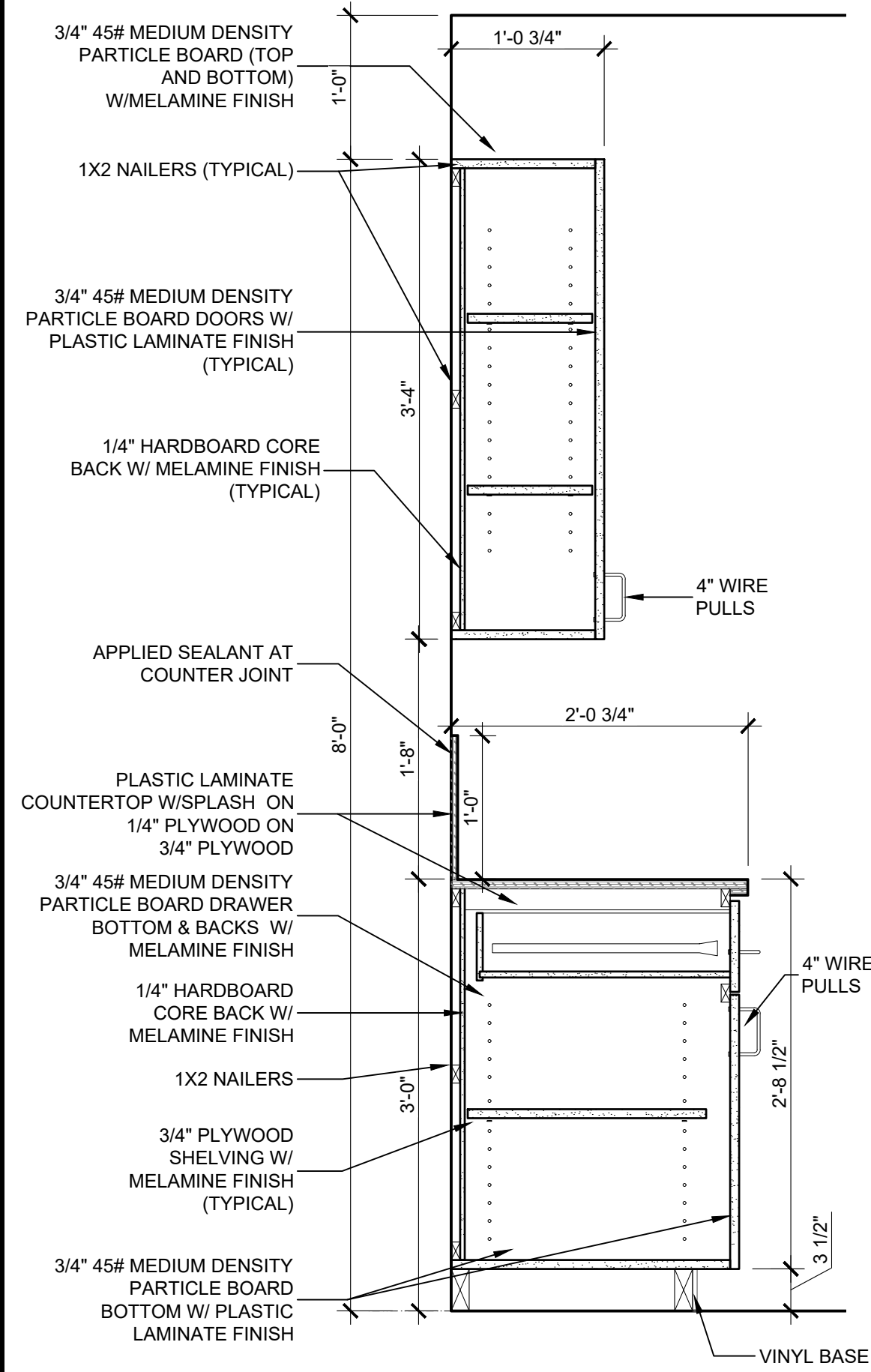
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CLIENT DWG NO:	
McDUFFIE TERMINAL IMPROVEMENTS NEW FABRICATION SHOP PACKAGE EXTERIOR ELEVATIONS	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4617	DWG NO: A200.0
REV: E	

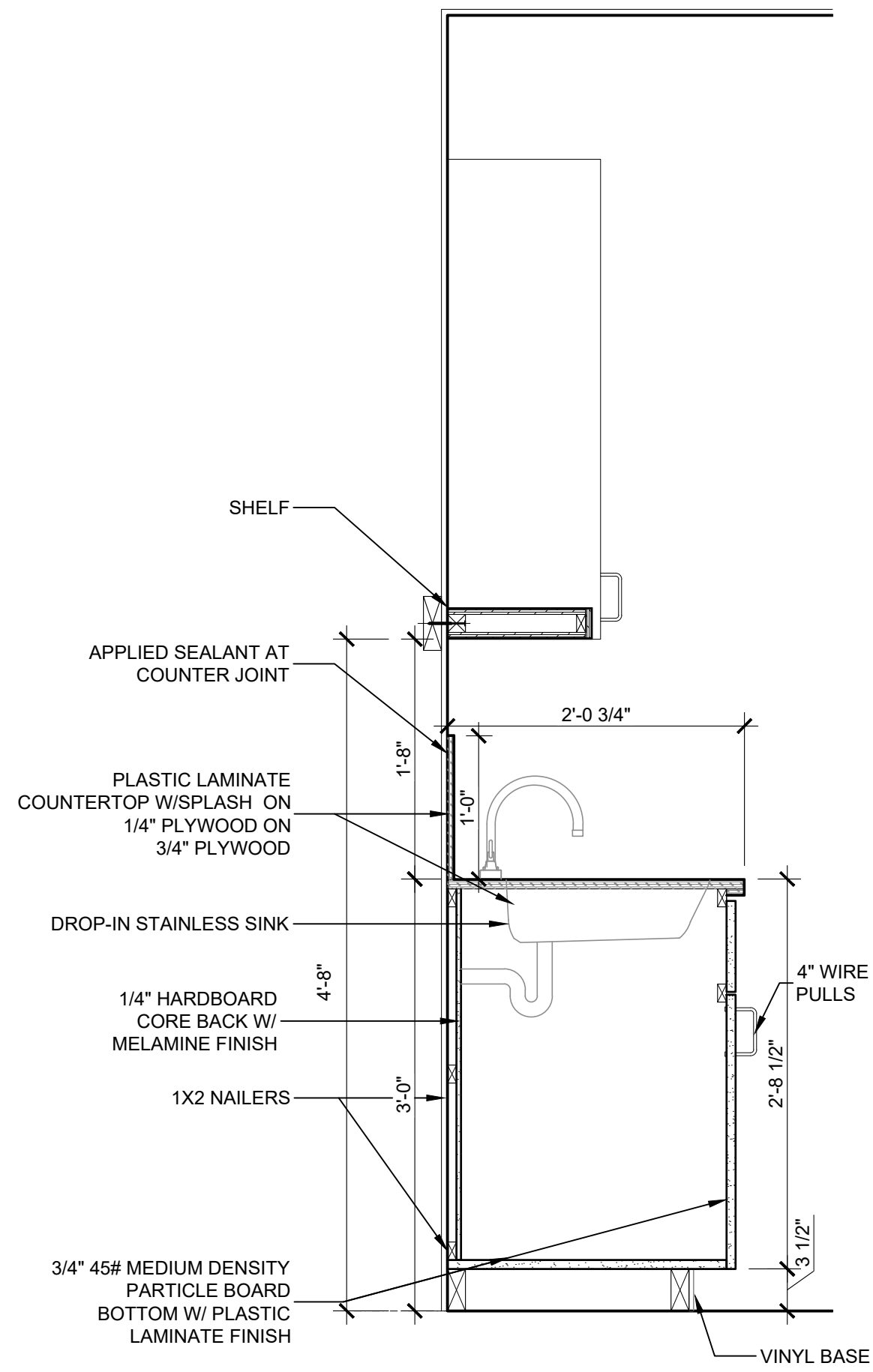




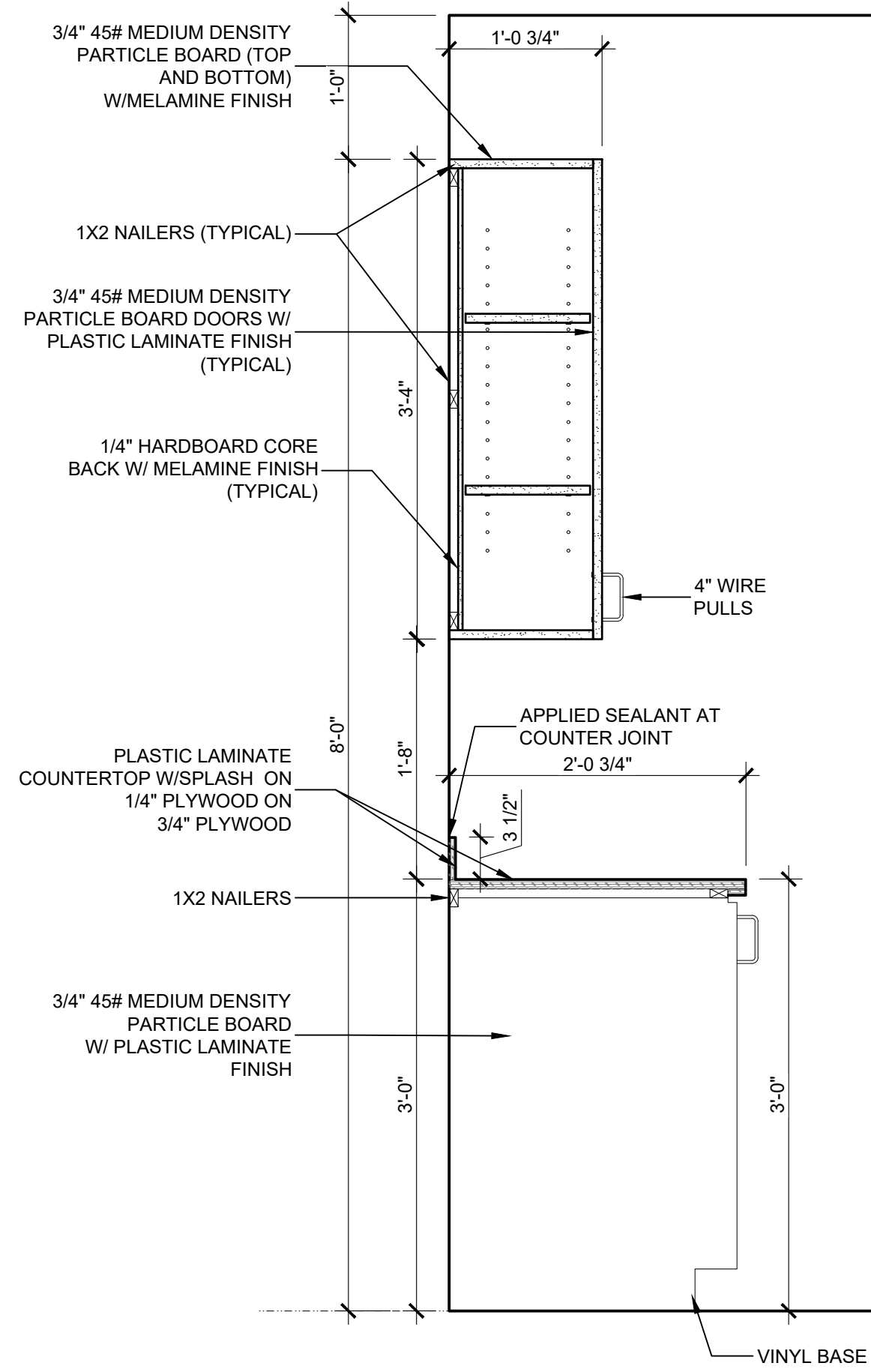
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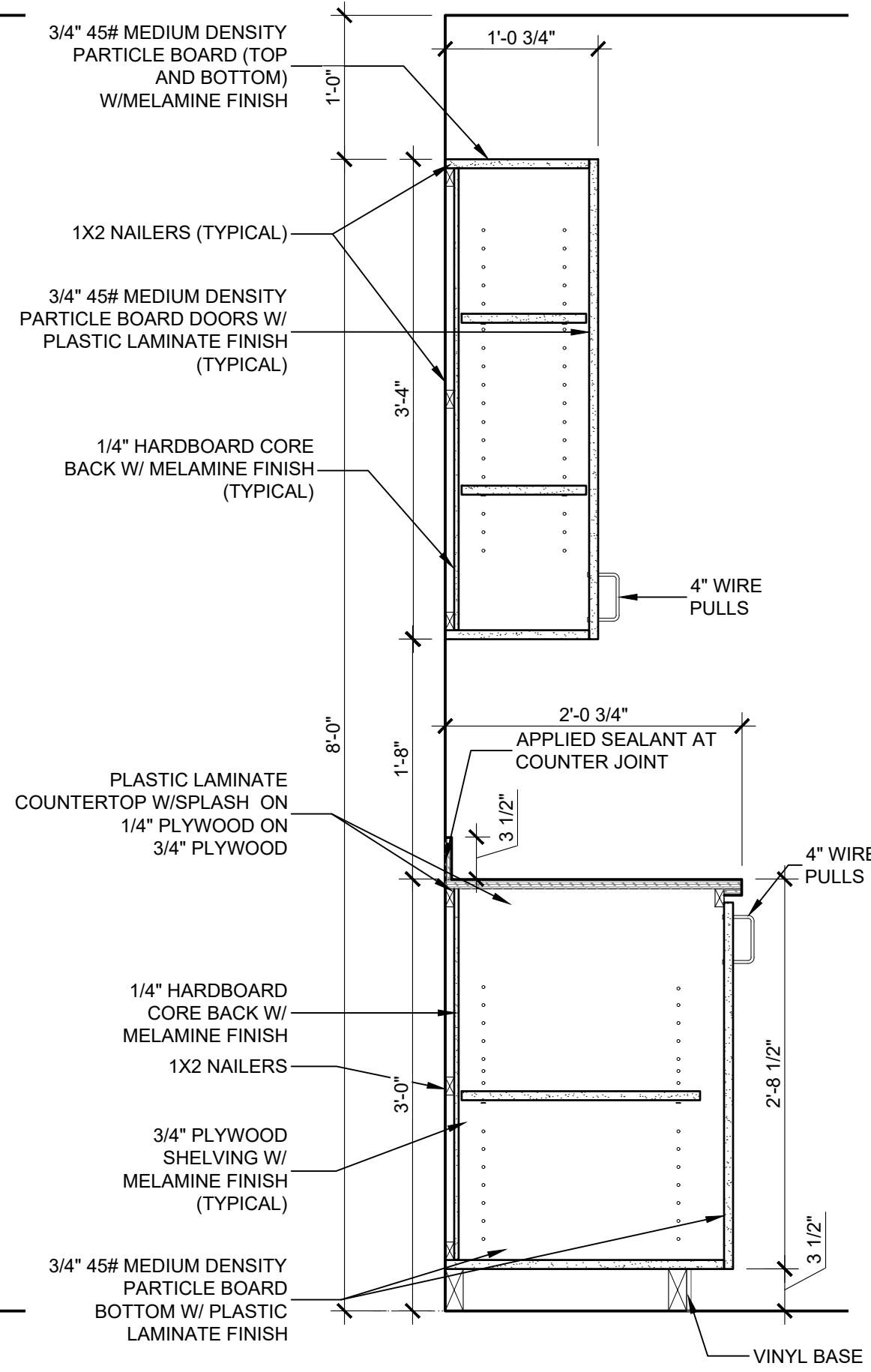
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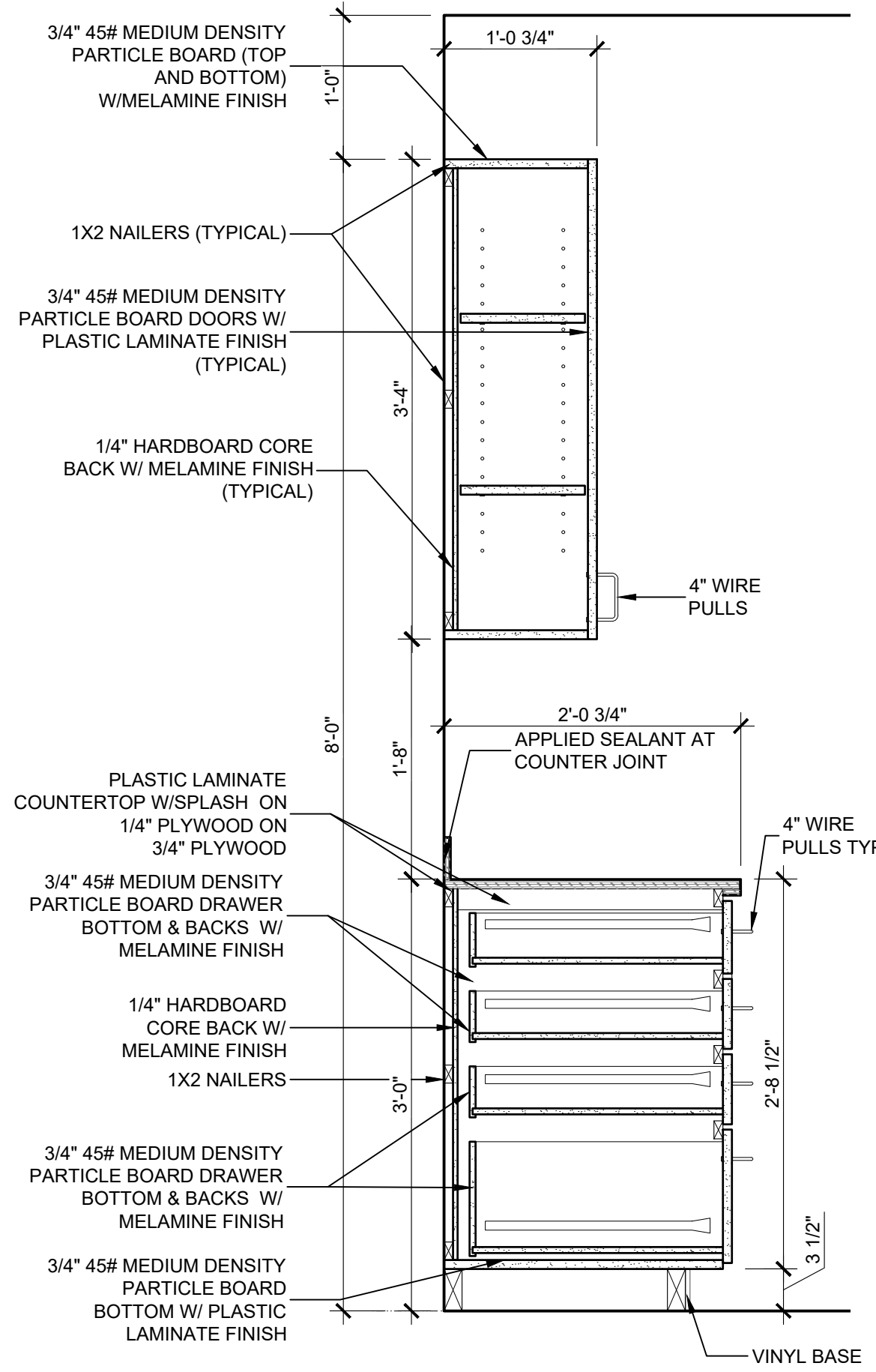
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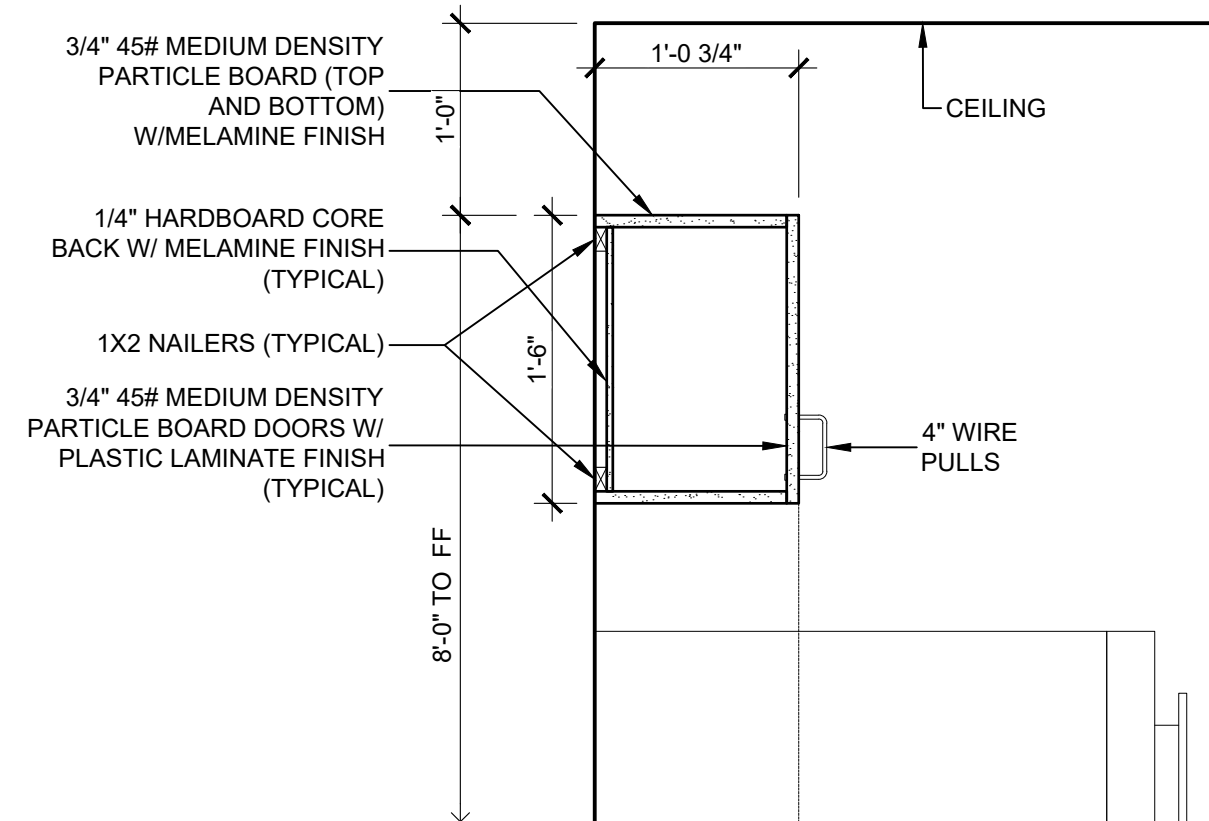
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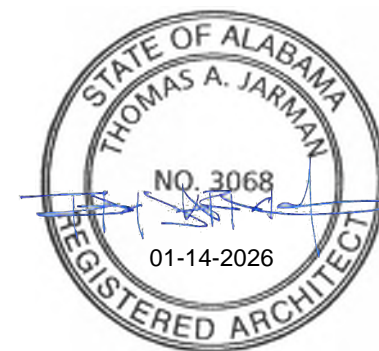
4 COUNTER DETAIL
SCALE: 1-1/2"=1'-0"



5 COUNTER DETAIL
SCALE: 1-1/2"=1'-0"



6 COUNTER DETAIL
SCALE: 1-1/2"=1'-0"



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:



McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
MILLWORK DETAILS

FOR: ALABAMA PORT AUTHORITY

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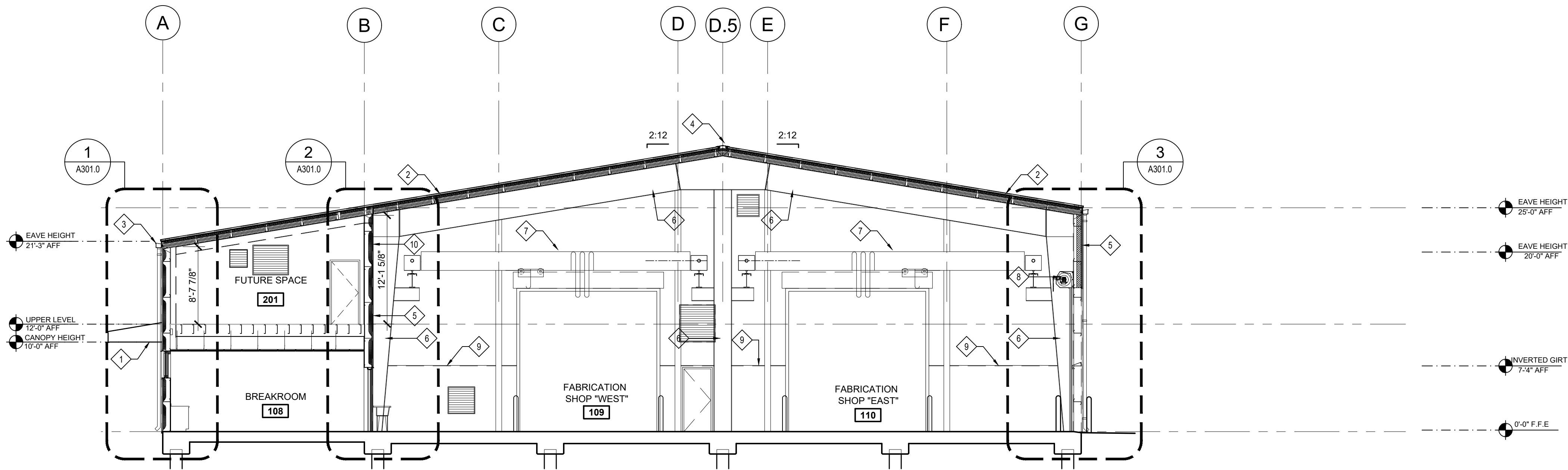
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PROJECT NO: 4617 DWG NO: A201.1 REV: E

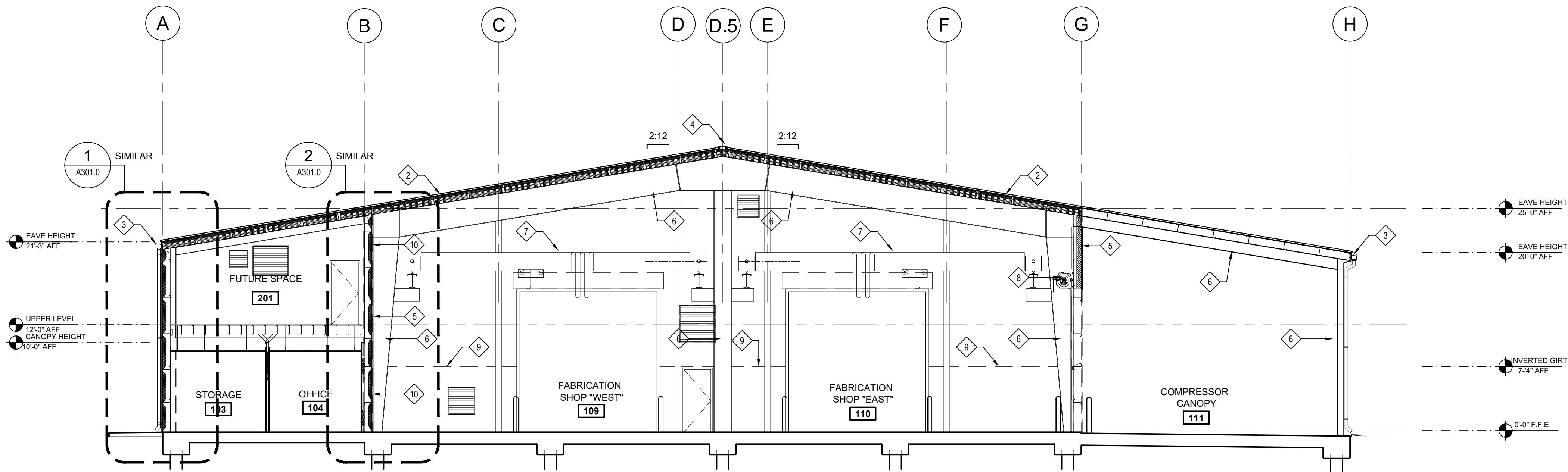
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SHEET KEYNOTES:

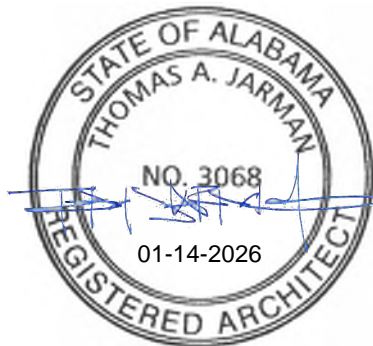
- 1 PRE-ENGINEERED METAL BUILDING CANOPY
- 2 PRE-ENGINEERED METAL BUILDING STANDING SEAM ROOFING
- 3 PRE-FINISHED METAL EDGE FLASHING, GUTTER AND DOWNSPOUTS - PROVIDE SPLASH BLOCK AT EACH DOWNSPOUT
- 4 PRE-FINISHED METAL RIDGE FLASHING
- 5 PRE-ENGINEERED METAL WALL PANELS
- 6 METAL BUILDING FRAME PAINTED
- 7 CRANE - SEE STRUCTURAL
- 8 OVERHEAD DOOR - SEE STRUCTURAL
- 9 LINER PANELS AT 7'-4" INVERTED GIRT W/FLASHING (TYP)
- 10 LINER PANELS FULL HEIGHT



A BUILDING SECTION
SCALE: 1/8"=1'-0"



B BUILDING SECTION
SCALE: 1/8"=1'-0"



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
BUILDING SECTIONS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617

DWG NO: A300.0

REV: E

NOTES


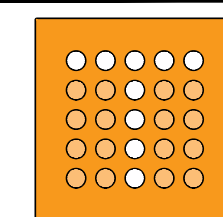
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NO.	REVISION	DRAWN	CK'D	APPD	DATE

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DRAWN: DG CK'D: TJ APPD: TJ DATE: 01-14-26 SCALE: AS NOTED



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ALABAMA
PORT AUTHORITY
PORT OF MOBILE

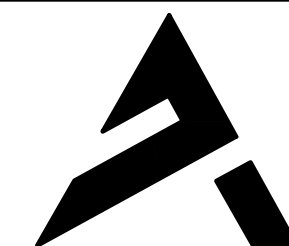
McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
BUILDING WALL SECTIONS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617

DWG NO: A301.0

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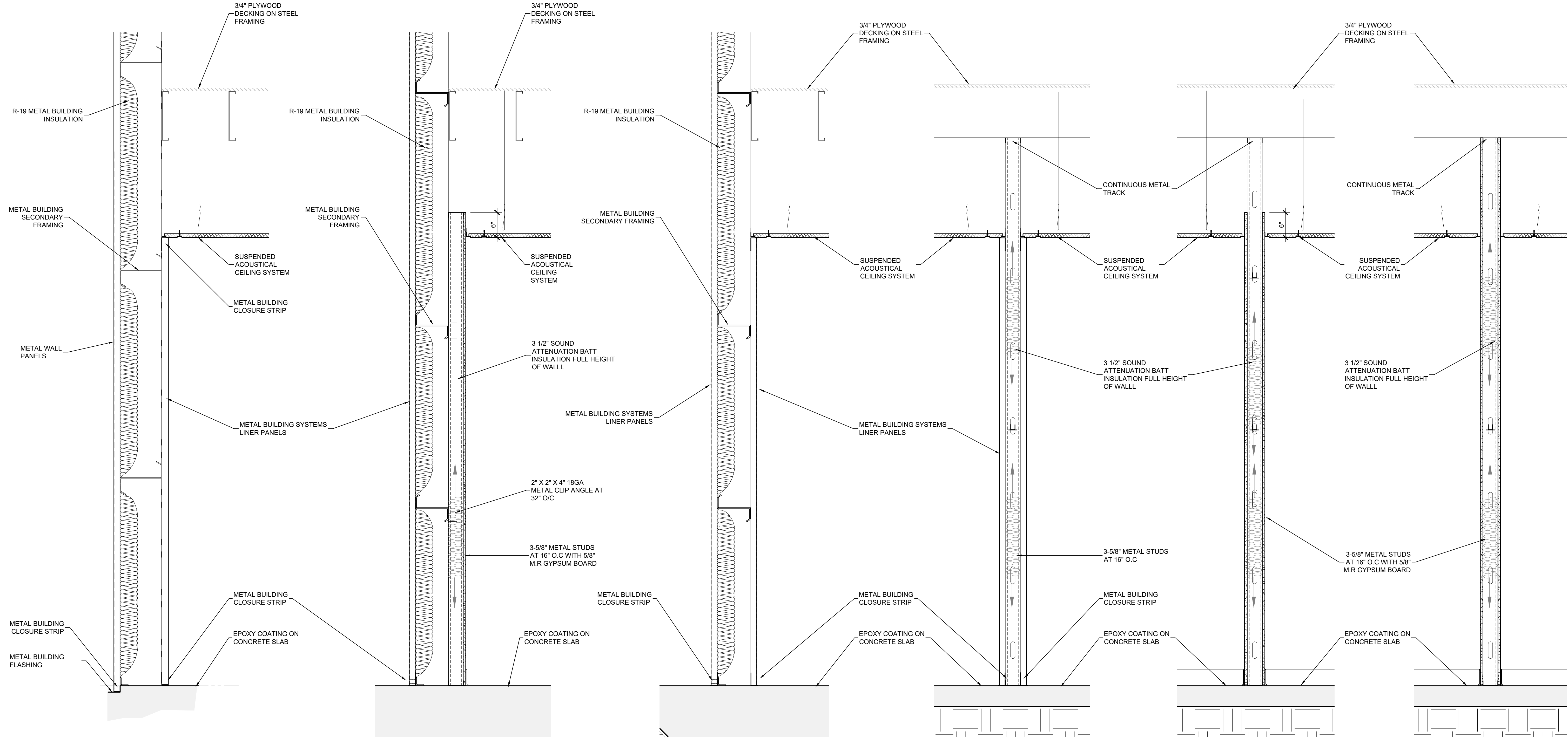


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DRAWN: DG	CK'D: TJ	APPD: TJ	DATE: 01-14-26	SCALE: AS NOTED
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		A	30% DESIGN REVIEW	DG	SM	SM	04-11-2
	REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE



P1 PARTITION TYPE
SCALE: 1"=1'-0"

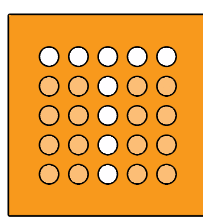
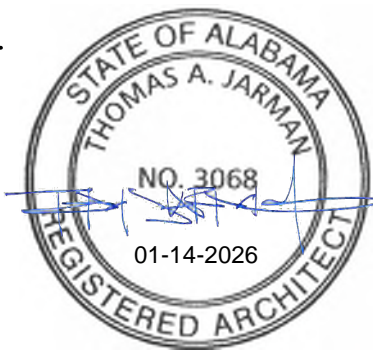
P2 PARTITION TYPE
SCALE: 1"=1'-0"

P3 PARTITION TYPE
SCALE: 1"=1'-0"

P4 PARTITION TYPE
SCALE: 1"=1'-0"

P5 PARTITION TYPE
SCALE: 1"=1'-0"

P6 PARTITION TYPE
SCALE: 1"=1'-0"



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ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
PARTITION TYPES

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617

DWG NO: A400.0

REV: E

NOTES							
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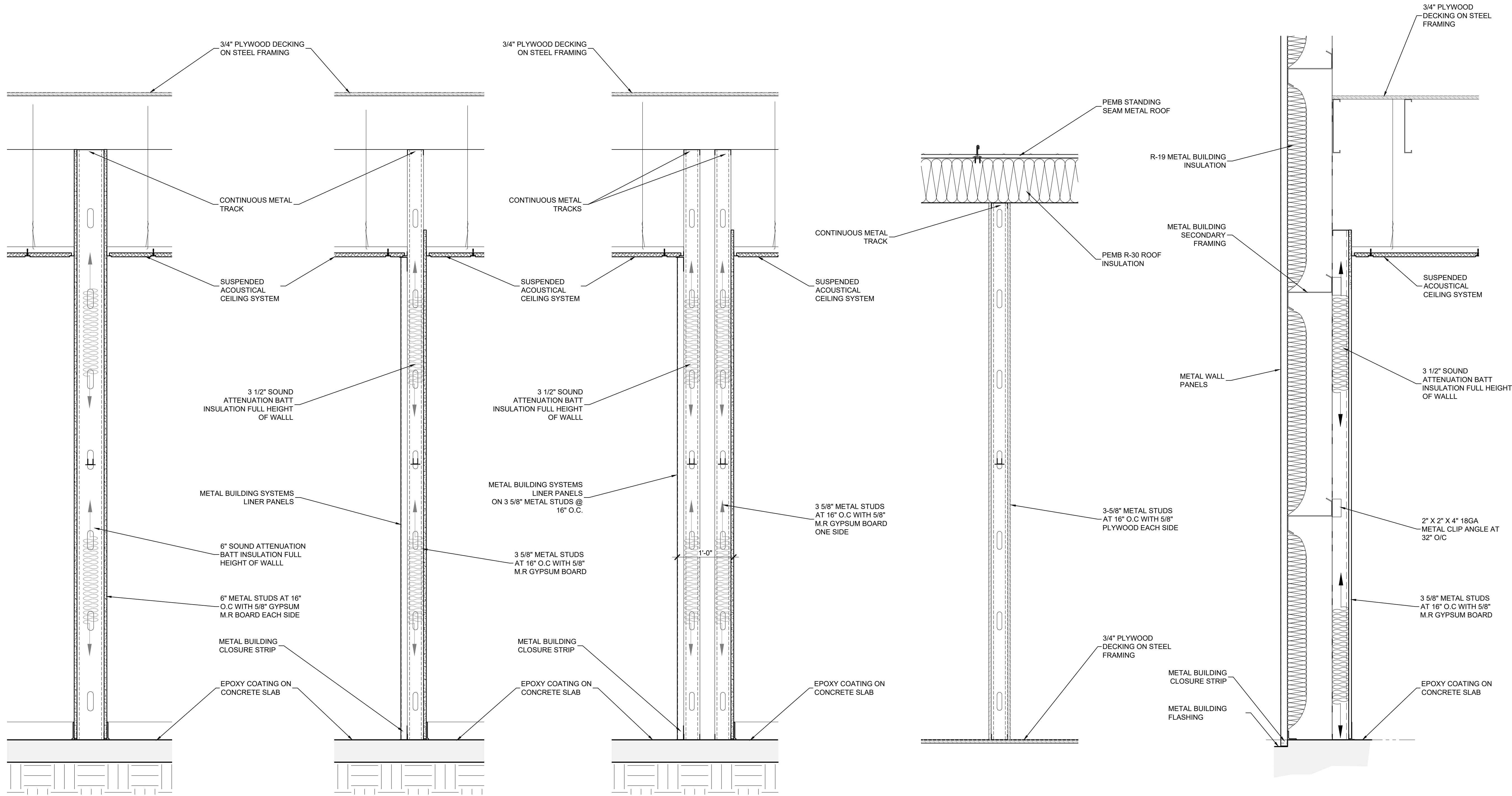
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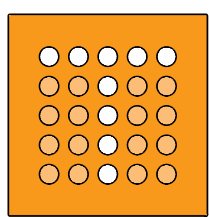
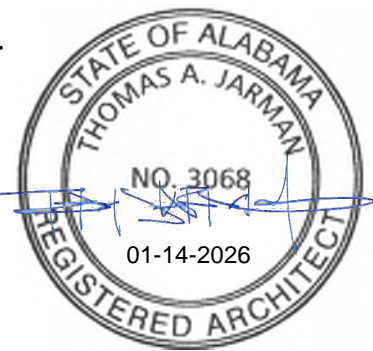
P7 PARTITION TYPE
SCALE: 1"=1'-0"

P8 PARTITION TYPE
SCALE: 1"=1'-0"

P9 PARTITION TYPE
SCALE: 1"=1'-0"

P10 PARTITION TYPE
SCALE: 1"=1'-0"

P11 PARTITION TYPE
SCALE: 1"=1'-0"



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ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:



APTIM
PORT SERVICES, LLC

McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
PARTITION TYPES

FOR: ALABAMA PORT AUTHORITY

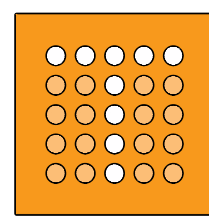
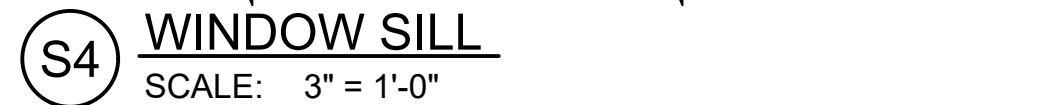
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PROJECT NO: 4617

DWG NO: A400.1

REV: E

NOTES							
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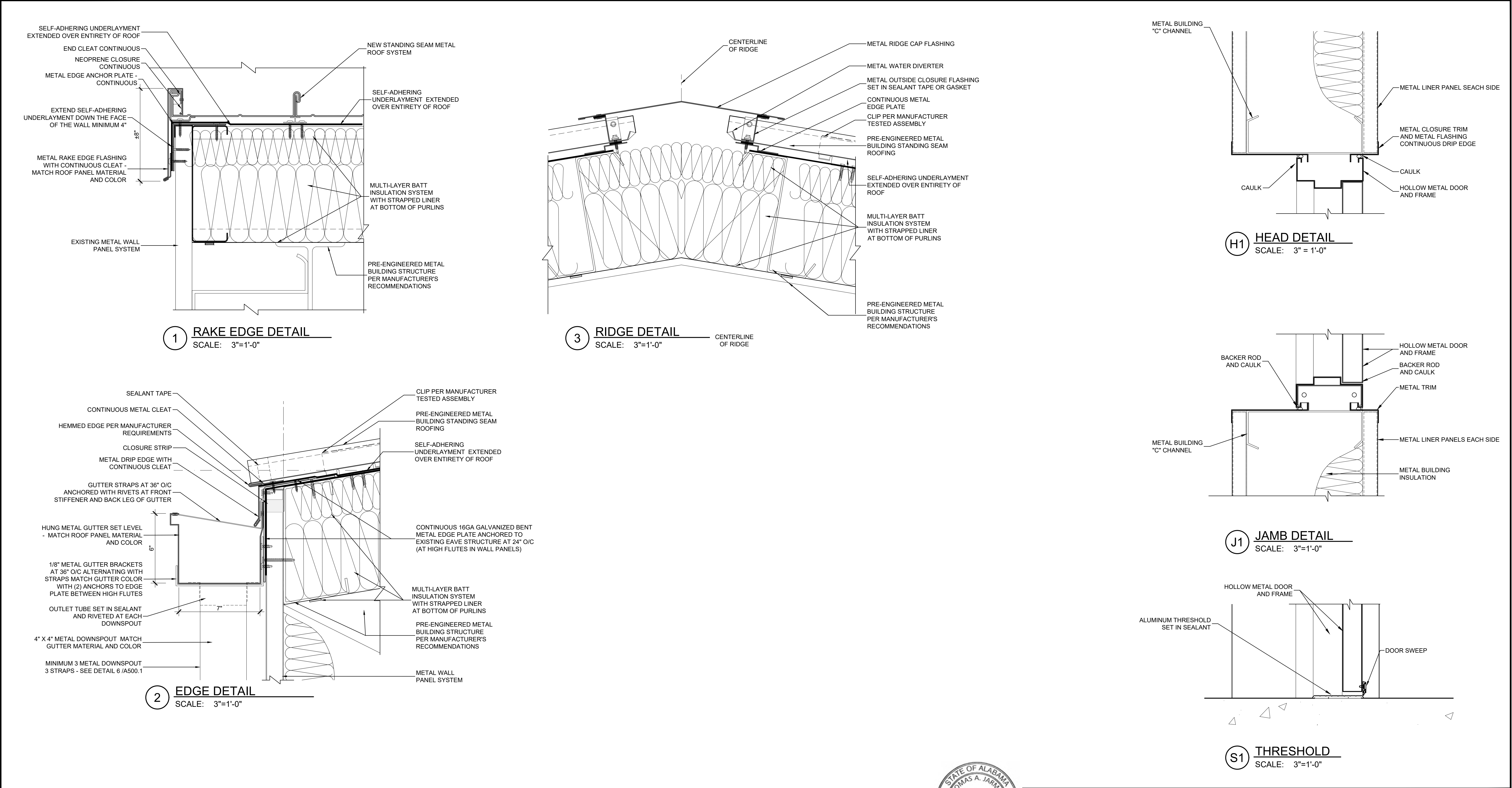


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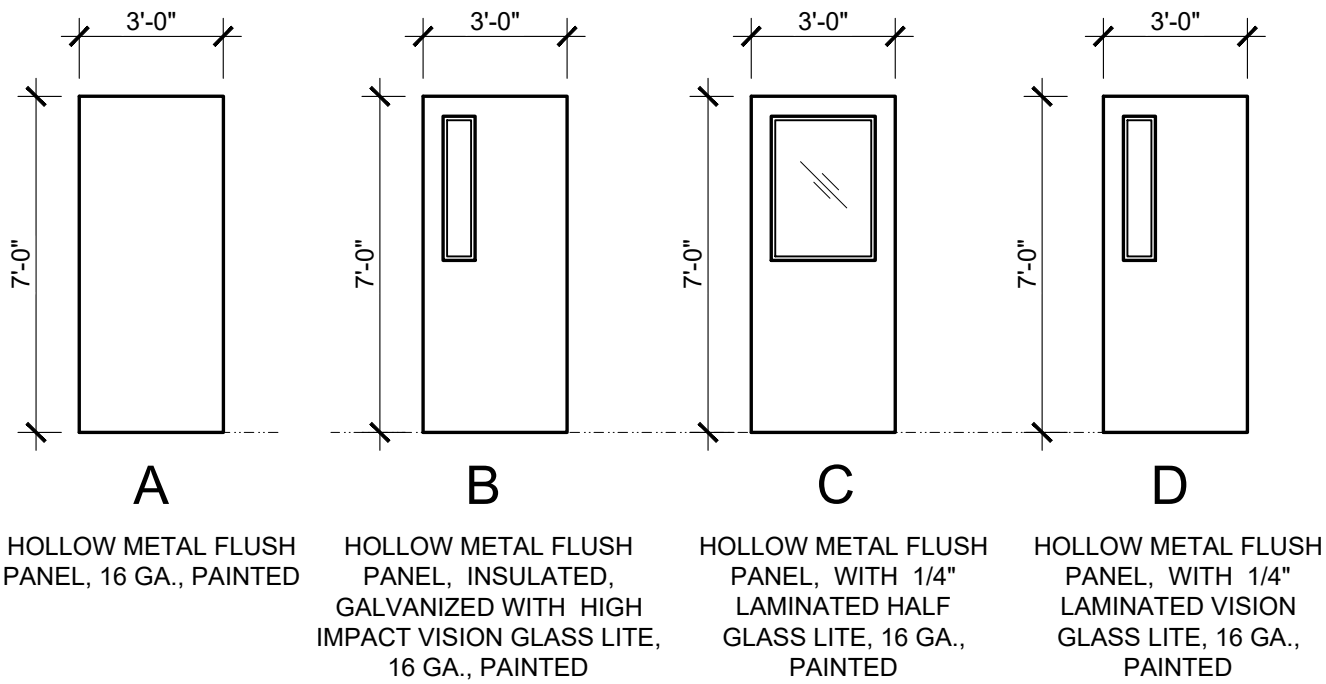


ALABAMA
PORT AUTHORITY
PORT OF MOBILE

P:\2024\Projects\1101\24-1101-0117 APTIM Choctaw Point Dev Phase V\Working\Architectural\04 Contract Document Phase\Drawings\A500.0 FAB Details.dwg By: dgonzalez Printed: Thu 29-Jan-2026 - 04:40PM

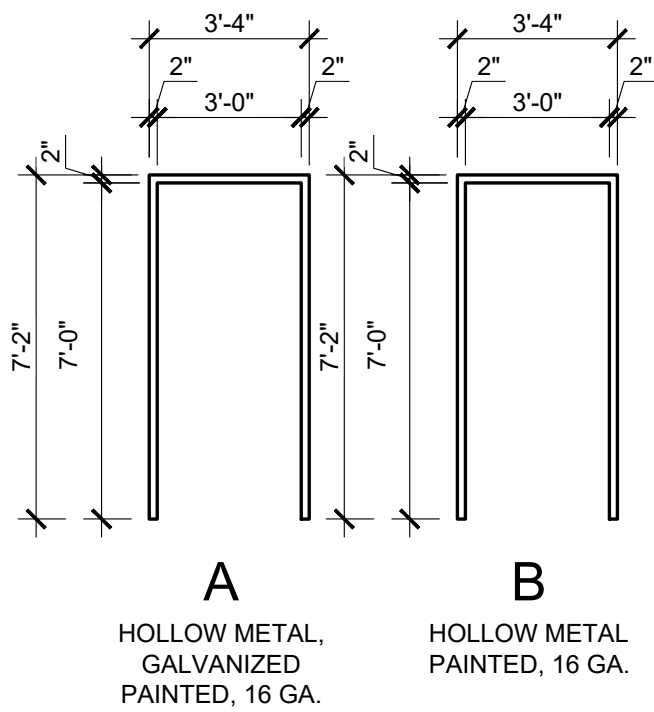


<div><div><div>STATE OF ALABAMA THOMAS A. JARMAN NO. 3068 01-14-2026 REGISTERED ARCHITECT</div></div><div><div>thompson</div><div>ENGINEERING</div></div></div>	<div><div><div></div><div>ALABAMA</div><div>PORT AUTHORITY</div><div>PORT OF MOBILE</div></div></div>
<div><div><div></div><div>APTIM</div><div>PORT SERVICES, LLC</div></div><div><div>THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.</div></div></div>	<div><div>CLIENT DWG NO:</div><div>McDUFFIE TERMINAL IMPROVEMENTS NEW FABRICATION SHOP PACKAGE DETAILS</div></div>
<div><div>FOR: ALABAMA PORT AUTHORITY</div><div><div>DRAWN: DG</div><div>CK'D: TJ</div><div>APPD: TJ</div><div>DATE: 01-14-26</div><div>SCALE: AS NOTED</div></div></div>	<div><div>PROJECT NO: 4617</div><div>DWG NO: A500.1</div><div>REV: E</div></div>



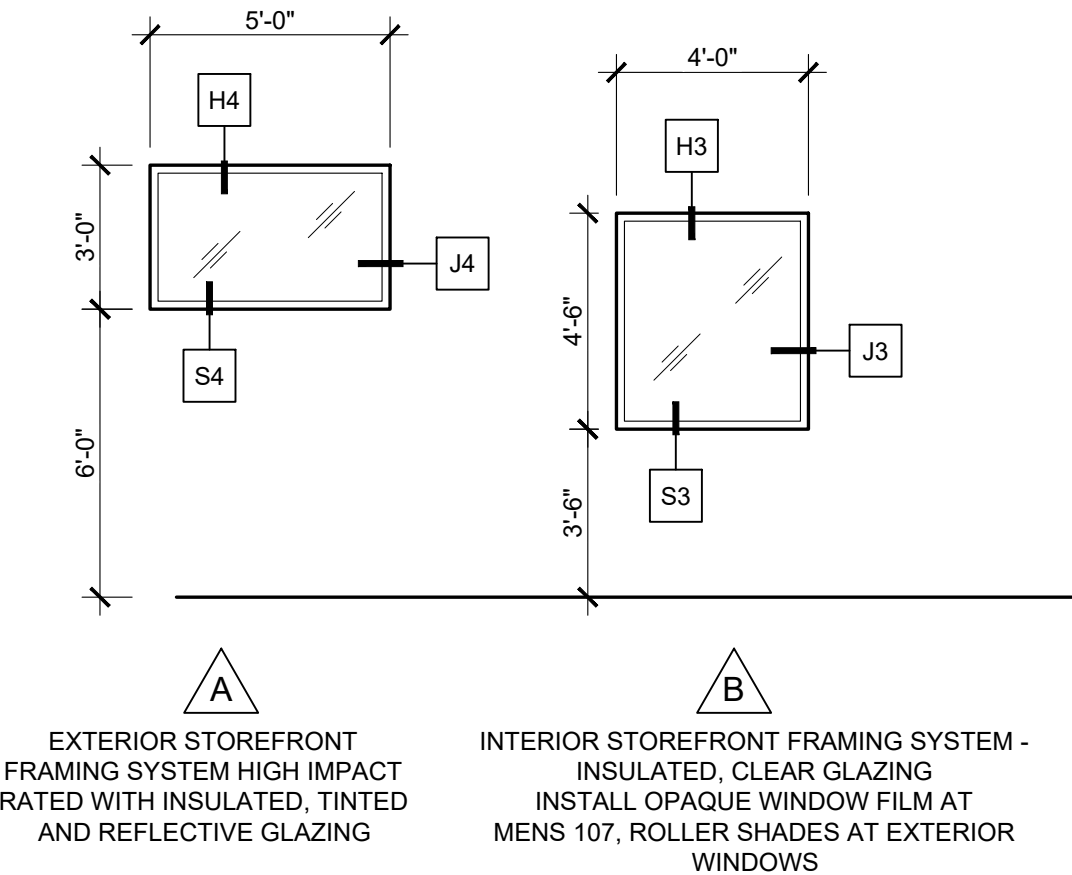
1 DOOR TYPES

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



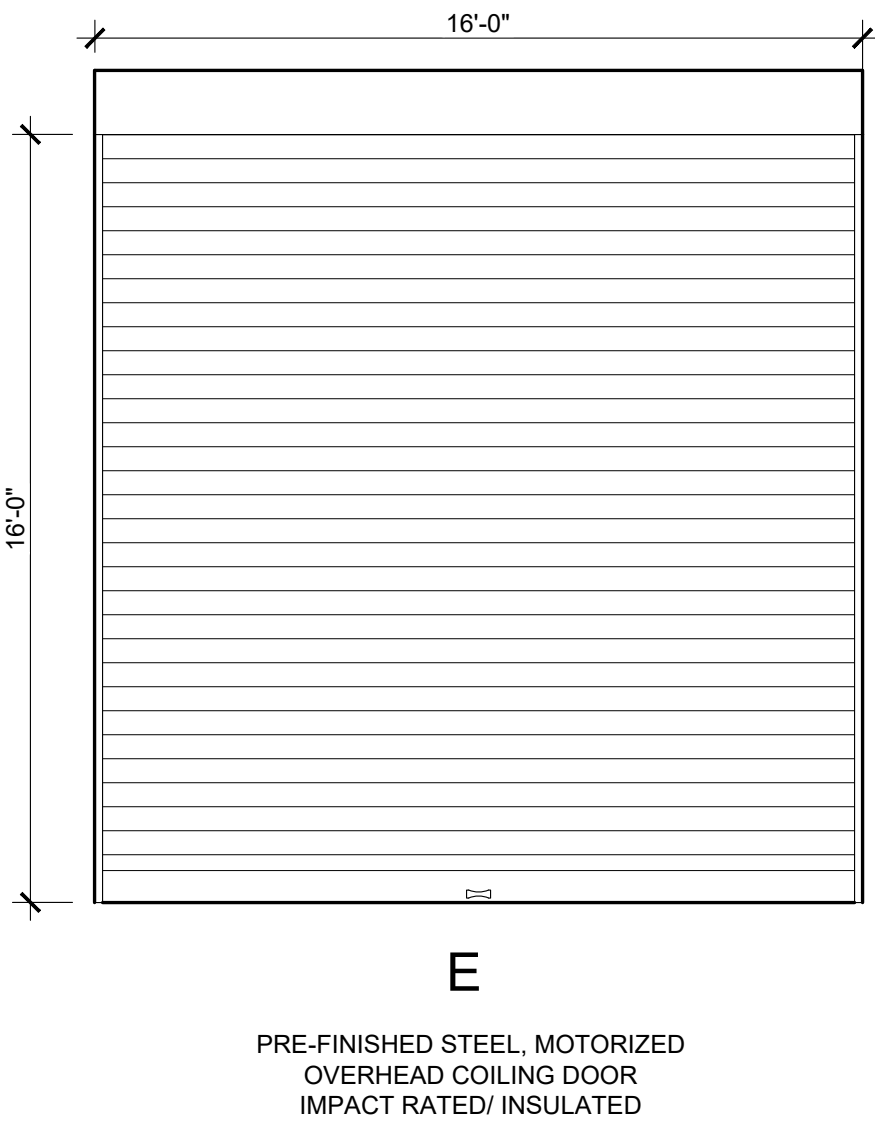
2 FRAME TYPES

SCALE: 1/4" = 1'-0



3 WINDOW ELEVATIONS

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



E
PRE-FINISHED STEEL, MOTORIZED
OVERHEAD COILING DOOR
IMPACT RATED/ INSULATED

DOOR SCHEDULE

NO.	LOCATION	DOOR		FRAME				U.L. RATING	HDW.	REMARKS
		TYPE	SIZE	TYPE	HEAD	JAMB	SILL			
100A	EXTERIOR TO CORRIDOR 100	B	3'-0"x7'-0"x1 3/4"	A	H-2/A500.0	J-2/A500.0	S-2/A500.0	---	HW-1	
100B	CORRIDOR 100 TO FABRICATION SHOP-WEST 109	C	3'-0"x7'-0"x1 3/4"	B	H-2/A500.0 SIM	J-2/A500.0 SIM	--	---	HW-3	
102	CORRIDOR 100 TO OFFICE 102	D	3'-0"x7'-0"x1 3/4"	B	H-1/A500.0	J-1/A500.0	--	---	HW-2	
103	FABRICATION SHOP-WEST 109 TO STORAGE 103	A	3'-0"x7'-0"x1 3/4"	B	H-1/A500.1	J-1/A500.1	--	---	HW-2	
104	FABRICATION SHOP-WEST 109 TO OFFICE 104	D	3'-0"x7'-0"x1 3/4"	B	H-2/A500.0 SIM	J-2/A500.0 SIM	--	---	HW-2	
106	CORRIDOR 100 TO WOMEN'S 106	A	3'-0"x7'-0"x1 3/4"	B	H-1/A500.0	J-1/A500.0	--	---	HW-4	
107	FABRICATION SHOP-WEST 109 TO MEN'S 107	A	3'-0"x7'-0"x1 3/4"	B	H-1/A500.1	J-1/A500.1	--	---	HW-5	
108	FABRICATION SHOP-WEST 109 TO BREAKROOM 108	C	3'-0"x7'-0"x1 3/4"	B	H-1/A500.1	J-1/A500.1	--	---	HW-5	
109A	EXTERIOR TO FABRICATION SHOP-WEST 109	E	16'-0" X 16'-0"	-	-	-	-	---	---	OVERHEAD DOOR
109B	EXTERIOR TO FABRICATION SHOP-WEST 109	B	3'-0"x7'-0"x1 3/4"	A	H-5/A500.0	J-5/A500.0	S-5/A500.0	---	HW-1	
109C	EXTERIOR TO FABRICATION SHOP-WEST 109	E	16'-0" X 16'-0"	-	-	-	-	---	---	OVERHEAD DOOR
109D	EXTERIOR TO FABRICATION SHOP-WEST 109	B	3'-0"x7'-0"x1 3/4"	A	H-5/A500.0	J-5/A500.0	S-5/A500.0	---	HW-1	
110A	EXTERIOR TO FABRICATION SHOP-EAST 110	E	16'-0" X 16'-0"	-	-	-	-	---	---	OVERHEAD DOOR
110B	EXTERIOR TO FABRICATION SHOP-EAST 110	E	16'-0" X 16'-0"	-	-	-	-	---	---	OVERHEAD DOOR
110C	EXTERIOR TO FABRICATION SHOP-EAST110	B	3'-0"x7'-0"x1 3/4"	A	H-5/A500.0	J-5/A5000	S-5/A500.0	---	HW-1	
110D	COMP CANOPY 111 TO FABRICATION SHOP-EAST 110	E	16'-0" X 16'-0"	-	-	-	-	---	---	OVERHEAD DOOR
110E	EXTERIOR TO FABRICATION SHOP-EAST 110	E	16'-0" X 16'-0"	-	-	-	-	---	---	OVERHEAD DOOR
112	CORRIDOR 100 TO SHOWER 112	A	3'-0"x7'-0"x1 3/4"	B	H-1/A500.0	J-1/A500.0	--	---	HW-4	
113	CORRIDOR 100 TO IT 113	A	3'-0"x7'-0"x1 3/4"	B	H-1/A500.0	J-1/A5000	--	---	HW-2	
201	EXTERIOR TO OPEN SPACE 201	B	3'-0"x7'-0"x1 3/4"	A	H-2/A500.1	J-2/A500.1	S-2/A500.1	---	HW-1	
2EP	OPEN SPACE 201 TO PLATFORM EQUIPMENT 2EP	A	3'-0"x7'-0"x1 3/4"	B	H-1/A500.0	J-1/A500.0	--	---	HW-2	

ALL OF THE DOORS IN THE MEANS OF EGRESS REQUIRE PANIC HARDWARE.

FINISH SCHEDULE

NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING		NOTES
		MATERIAL	MATERIAL	MATERIAL	MATERIAL	CEILING HT.	
	LOWER LEVEL						
100	CORRIDOR	CONC/EPOXY	VINYL	M.R GYP/FRP	ACT-1	9'-0"	
101	COPY	CONC/EPOXY	VINYL	M.R GYP	ACT-1	9'-0"	
102	OFFICE	CONC/EPOXY	VINYL	M.R GYP	ACT-1	9'-0"	
103	STORAGE	CONC/EPOXY	-	MTL	ACT-1	9'-0"	
104	OFFICE	CONC/EPOXY	VINYL	M.R GYP	ACT-1	9'-0"	
105	BREAK	CONC/EPOXY	VINYL	M.R GYP/FRP	ACT-1	9'-0"	
106	WOMEN'S	CONC/EPOXY	VINYL	M.R GYP	ACT-1	9'-0"	
107	MEN'S	CONC/EPOXY	-	MTL	ACT-1	9'-0"	
108	BREAKROOM	CONC/EPOXY	-	MTL	ACT-1	9'-0"	
109	FABRICATION SHOP "WEST"	CONC/SEALED	-	MTL	EXP. STR.	+/- 24'-4" TO 30'-9"	
110	FABRICATION SHOP "EAST"	CONC/SEALED	-	MTL	EXP. STR.	+/- 24'-4" TO 30'-9"	
111	COMPRESSOR CANOPY	CONC/SEALED	-	MTL	EXP. STR.	+/- 19'-9" TO 23'-0"	
112	SHOWER	CONC/EPOXY	INTEGRAL W/FRP	M.R GYP/FRP	ACT-2	9'-0"	
113	IT	CONC/EPOXY	VINYL	M.R GYP	ACT-1	9'-0"	
201	OPEN SPACE	PLYWOOD	-	MTL	EXP. STR.	+/- 8'-7" TO 12'-1"	
2EP	PLATFORM EQUIPMENT	PLYWOOD	-	MTL	EXP. STR.	+/- 10'-8" TO 12'-1"	

HARDWARE SCHEDULE

PROVIDE WALL BUMPERS WHERE NECESSARY

HW-1

- (1) CONTINUOUS HINGE
- (1) MORTISE LOCKSET, LEVER HANDLE, ENTRY FUNCTION
- (1) RIM EXIT DEVICE
- (1) SURFACE CLOSER
- (1) KICKPLATE
- (1) THRESHOLD
- (1) WEATHERSTRIPPING
- (1) RAIN GUARD
- (3) SILENCERS

HW-2

- (1 1/2 PR) HINGES
- (1) LOCKSET, LEVER HANDLE, OFFICE FUNCTION
- (3) SILENCERS
- (1) THRESHOLD @ DOORS 103 & 104
- (1) WEATHERSTRIPPING @ DOORS 103 & 104

HW-3

- (1 1/2 PR) HINGES
- (1) LOCKSET, LEVER HANDLE, PASSAGE FUNCTION
- (1) SURFACE CLOSER
- (1) KICKPLATE
- (1) MOP PLATE
- (3) SILENCERS
- (1) THRESHOLD
- (1) WEATHERSTRIPPING

HW-4

- (1 1/2 PR) HINGES
- (1) LOCKSET, LEVER HANDLE, PRIVACY FUNCTION WITH OUTSIDE INDICATOR
- (1) KICKPLATE
- (1) SURFACE CLOSER
- (3) SILENCERS

HW-5

- (1 1/2 PR) HINGES
- (1) PUSH PLATE 8" X16"
- (1) PULL PLATE 8" X 16"
- (1) SURFACE CLOSER
- (1) KICK PLATE
- (1) MOP PLATE
- (3) SILENCERS
- (1) THRESHOLD
- (1) WEATHERSTRIPPING

FINISH SCHEDULE LEGEND

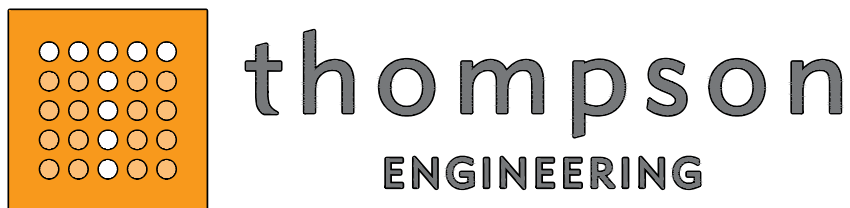
FLOOR
CONC/SEALED CONCRETE - CLEAR SEALER COMPATIBLE WITH CURING COMPOUND
CONC/EPOXY - CONCRETE WITH HIGH-PERFORMANCE EPOXY COATING
PLYWOOD - NO FINISH

BASE
VINYL - 4" VINYL WALL COVE BASE, JOHNSONITE COLOR 28 MEDIUM GRAY.
INT- INTEGRAL WITH FLOOR AND WALL

WALL
GYP - PAINTED GYPSUM WALLBOARD
M.R GYP- MOISTURE RESISTANT GYPSUM WALLBOARD PAINTED ON METAL STUD
MTL - PRE-FINISHED METAL LINER PANELS
FRP- FIBERGLASS REINFORCED PANELS

CEILING
ACT -1 - HIGH NRC ACOUSTICAL CEILING TILE
ACT - 2 CERAMIC ACOUSTICAL CEILING TILE SYSTEM
STR - EXPOSED STRUCTURE - METAL BLDG FRAMING MANF. GREY PRIMER

OTHER FINISHES
H.M. DOOR FRAMES - SPRAYED FINISH. COLOR SW7068 GRIZZLE GRAY SEMI-GLOSS
H.M. DOORS - SPRAYED FINISH, COLOR SW2850 CHESLA GRAY, SEMI-GLOSS
SOLID SURFACE WINDOW SILLS - CORIAN SORRELL
PLASTIC LAMINATE CABINET FRONTS @ BREAKROOM WILSONART CITADEL WARP 5882
PLASTIC LAMINATE COUNTERTOP - WILSONART RIVER ROCK MOSAIC 656
TOILET PARTITION - GENERAL PARTITIONS 602 GLACIER GREY
MECHO SHADE ROLLER SHADE GRAPHITE 6461
ALUMINUM WINDOWS - # 29 BLACK
METAL LOCKERS - BLUE
FRP WALL PANELS P100 WHITE
METAL CANOPIES - SNOW WHITE
METAL WALL PANELS, GUTTERS AND DOWNSPOUTS - SLATE GRAY
METAL ROOF PANELS - GALVALUME
OVERHEAD COILING DOOR - SPECTRASHIELD POWDER COAT ULTRA RAL 7005



CLIENT DWG NO:



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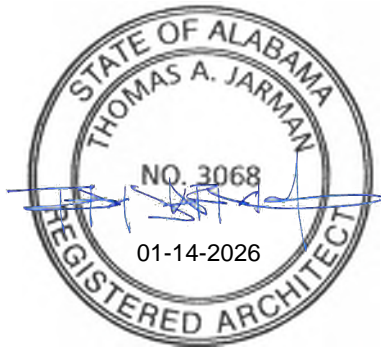
McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
DOOR & FINISH SCHEDULE

FOR: ALABAMA PORT AUTHORITY

PROJECT NO:4617

DWG NO: A600.0

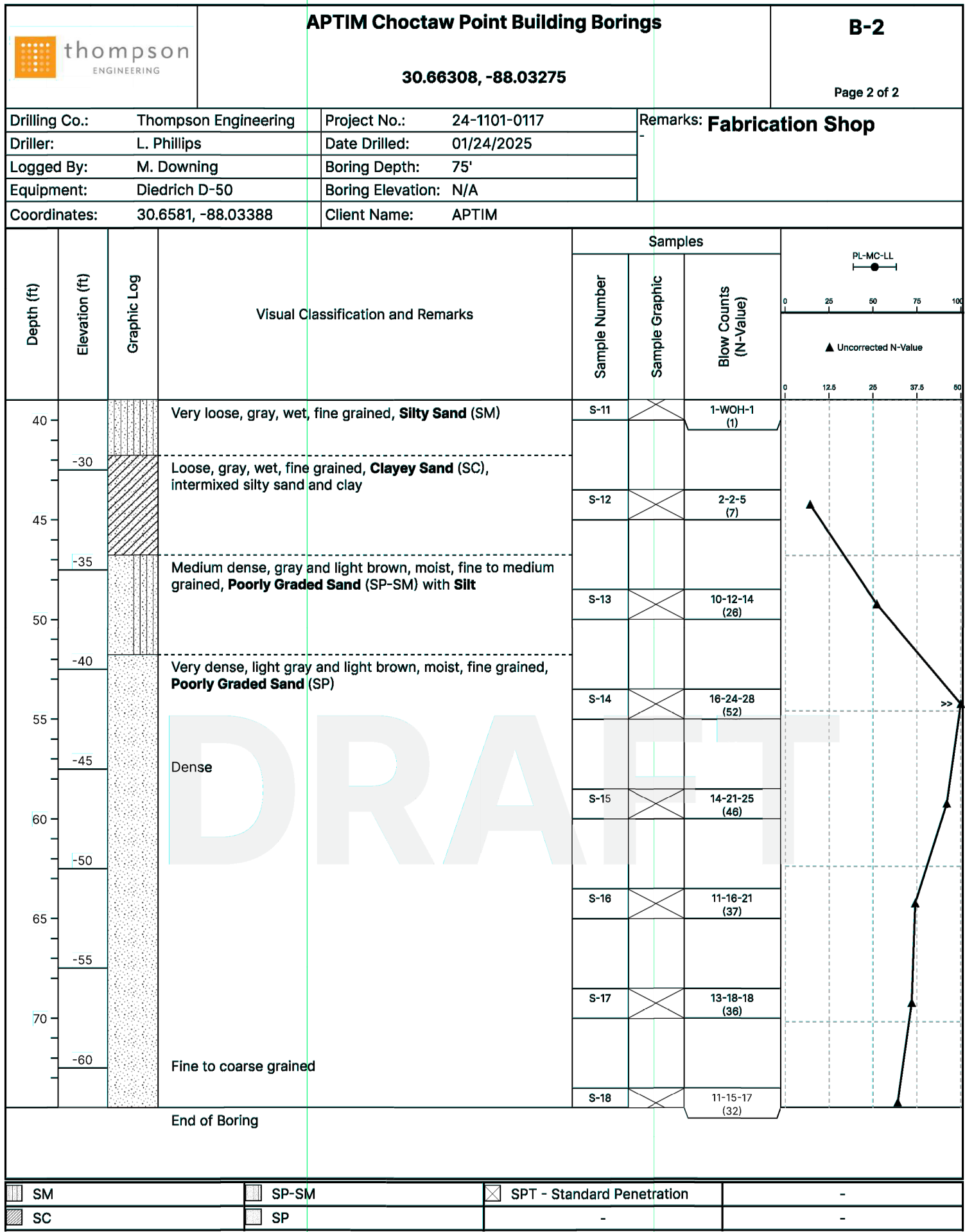
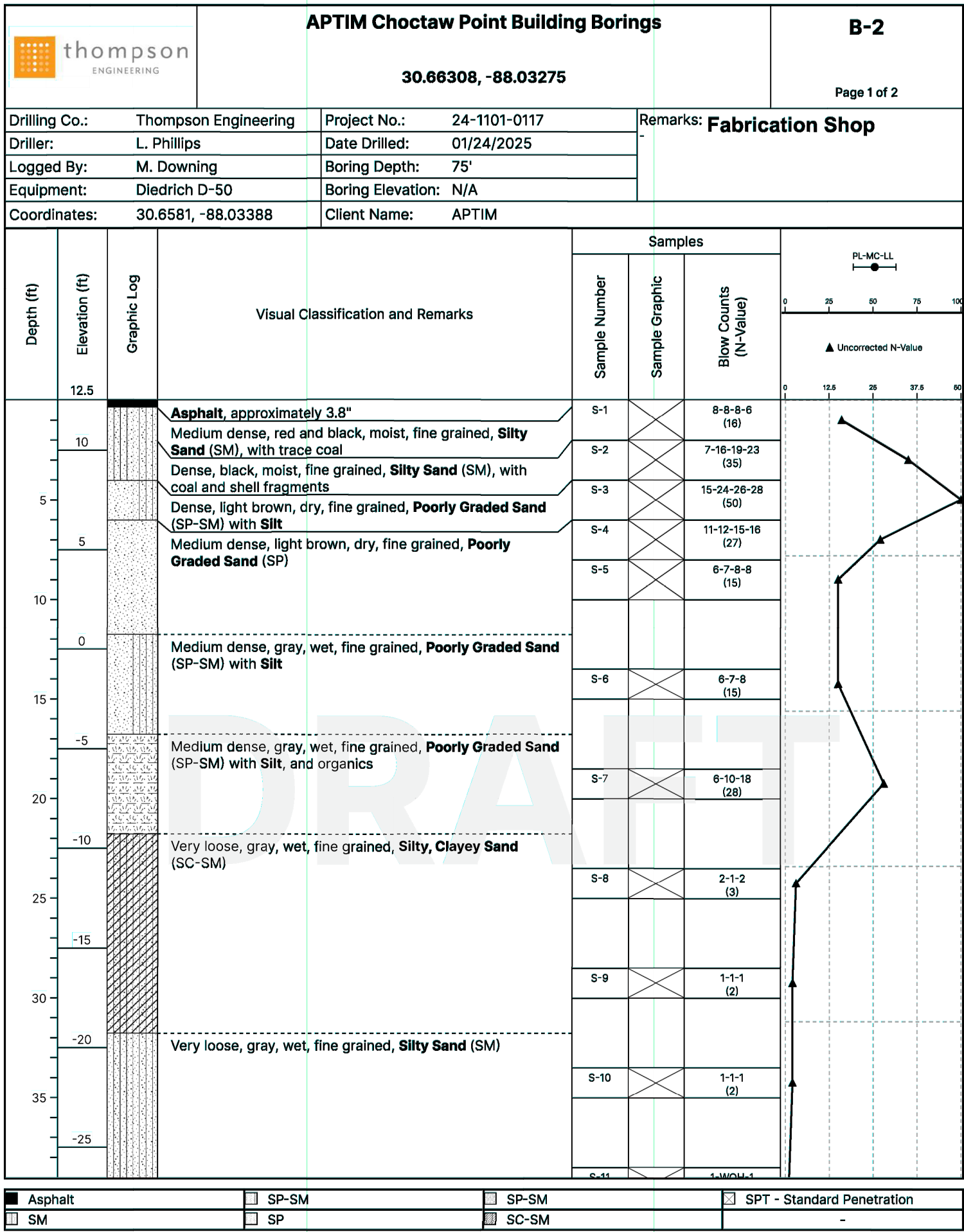
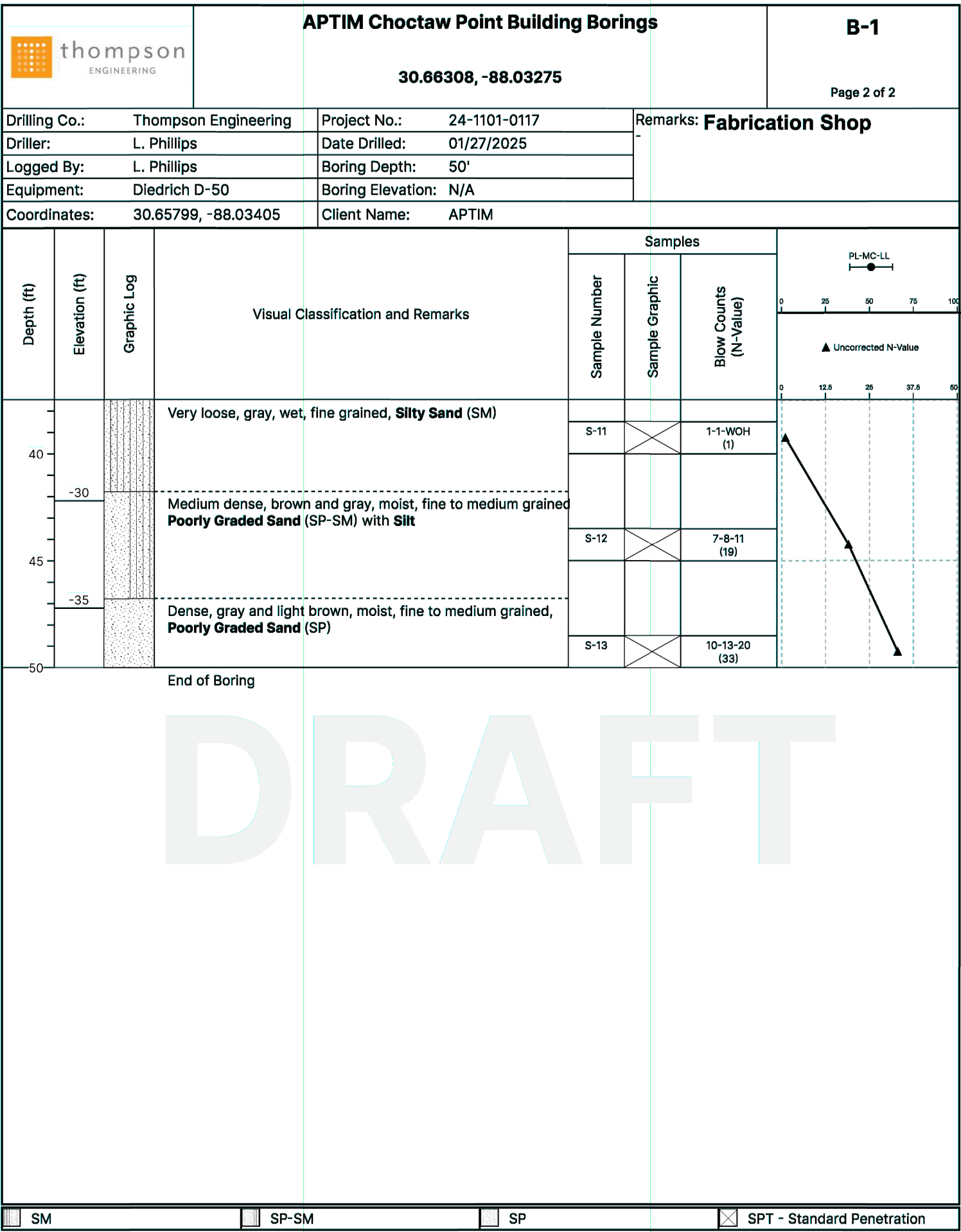
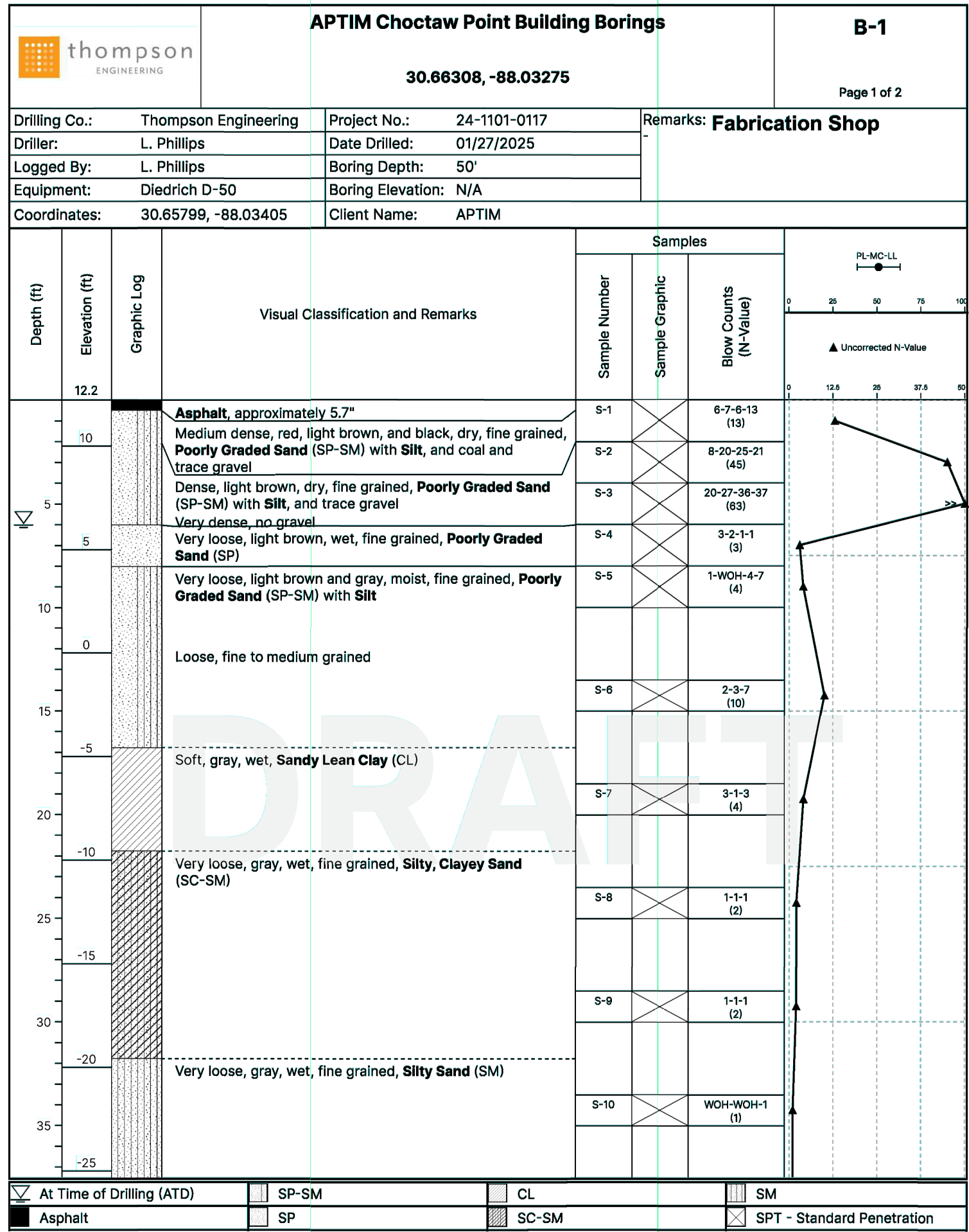
REV: E



NOTES

	E	ISSUED FOR BID		DG	TJ	TJ	01-14-26
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	C	95% DESIGN REVIEW		DG	SM	SM	08-08-25
	B	60% DESIGN REVIEW		DG	SM	SM	06-11-25
	A	30% DESIGN REVIEW		DG	SM	SM	04-11-25
		REFERENCE DRAWINGS					
	NO.	REVISION		DRAWN	CK'D	APPD	DATE

DRAWN: DG CK'D: TJ APPD: TJ DATE: 01-14-26 SCALE: AS NOTED



NOTES

E ISSUED FOR BID

D 100% DESIGN REVIEW

C 95% DESIGN REVIEW

B 60% DESIGN REVIEW

A 30% DESIGN REVIEW

REFERENCE DRAWINGS

NO.

REVISION

JLH JEJ RSG 01-14-26

JLH JEJ RSG 09-09-25

JLH JEJ RSG 08-08-25

JLH JEJ RSG 06-10-25

ECW JEJ RSG 04-11-25

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APTIM PORT SERVICES, LLC

thompson ENGINEERING

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

SOIL BORING LOGS 1 OF 1

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617

DWG NO: CV2

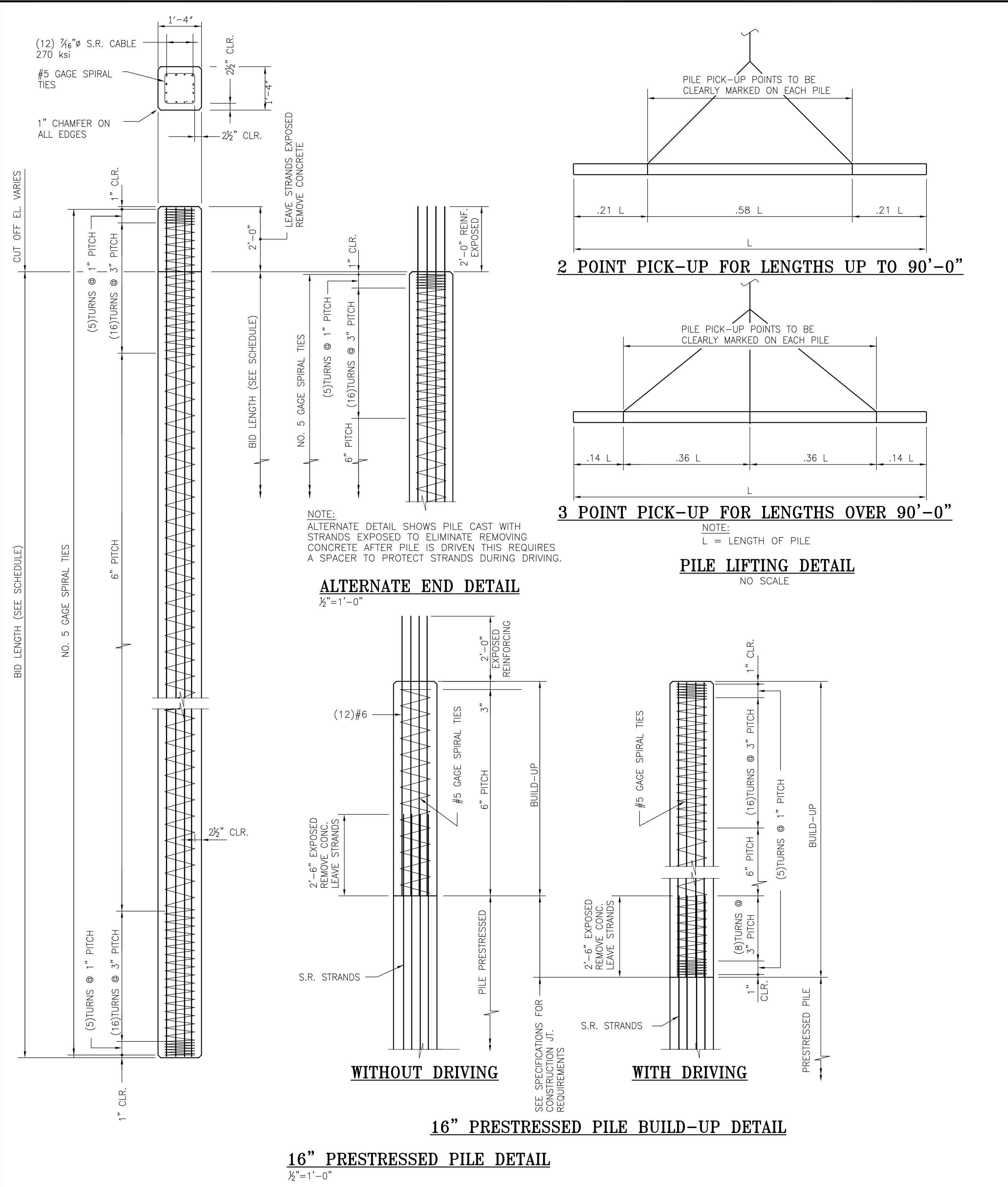
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ALABAMA PORT AUTHORITY

PORT OF MOBILE

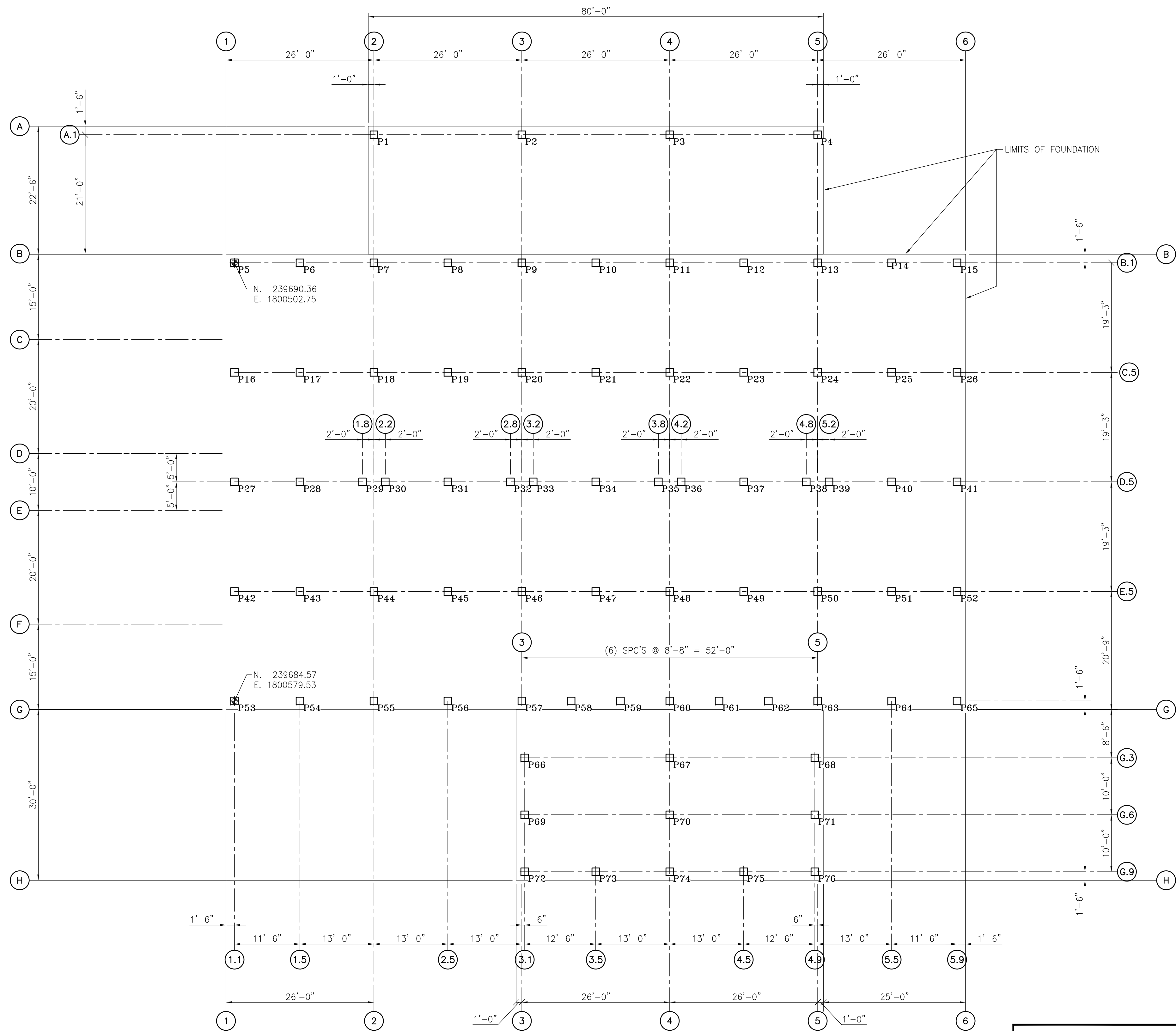
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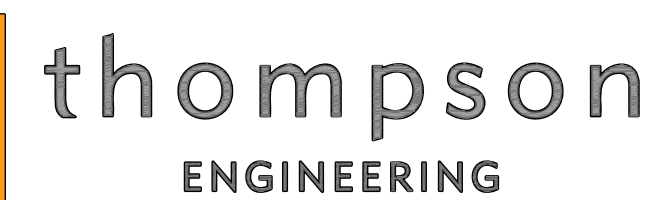
PRESTRESSED CONCRETE PILE SCHEDULE								
PILE NUMBERS	PILE SIZE	APPROXIMATE TIP ELEVATION (FEET)	PILE CUT-OFF ELEVATION (FEET)	BID LENGTH (FEET)	MINIMUM REQ'D LENGTH OF STRAND EXPOSURE BEYOND CUT-OFF ELEVATION (FEET)	CAPACITY (T)	NUMBER OF PILES	TOTAL BID LENGTH (FEET)
P1 THRU P65	16" SQ.	(-)38.00'	(+)12.00'	50	2.00		65	3,250
P66 THRU P68	16" SQ.	(-)38.22'	(+)11.78'	50	2.00		3	150
P69 THRU P71	16" SQ.	(-)38.33'	(+)11.67'	50	2.00		3	150
P72 THRU P76	16" SQ.	(-)38.44'	(+)11.56'	50	2.00		5	250
						TOTALS:	76	3,800

- CONCRETE PILE NOTES**
- PRESTRESSED PILES & PILE BUILD-UPS SHALL CONFORM TO THE REQUIREMENTS OF THE JOINT COMMITTEE OF AASHTO AND PCI FOR PRESTRESSED CONCRETE PILES UNLESS OTHERWISE NOTED OR SPECIFIED.
 - CONCRETE FOR PRESTRESSED PILES & PILE BUILD-UPS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI IN 28 DAYS.
 - PRESTRESSING REINFORCEMENT SHALL CONFORM TO ASTM A416.
 - REINFORCING FOR PILE BUILD-UPS SHALL CONFORM TO ASTM A615 GRADE 60.

NOTES									CLIENT DWG NO:		
		E	ISSUED FOR BID		JLH	JEJ	RSG	01-14-26	McDUFFIE TERMINAL IMPROVEMENTS		
		D	100% DESIGN REVIEW		JLH	JEJ	RSG	09-09-25	NEW FABRICATION SHOP PACKAGE		
		C	95% DESIGN REVIEW		JLH	JEJ	RSG	08-08-25	PILE DETAILS/SCHEDULE		
		B	60% DESIGN REVIEW		JLH	JEJ	RSG	06-10-25	FOR: ALABAMA PORT AUTHORITY		
		A	30% DESIGN REVIEW		JLH	JEJ	RSG	04-11-25			
REFERENCE DRAWINGS		NO.	REVISION		DRAWN	CK'D	APPD	DATE	DRAWN: JLH	CK'D: JEJ	APPD: RSG
									DATE: 01-03-25	SCALE: AS NOTED	PROJECT NO: 4617
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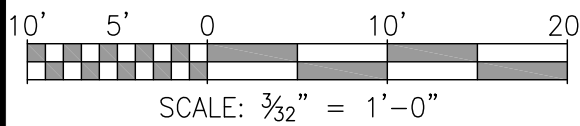
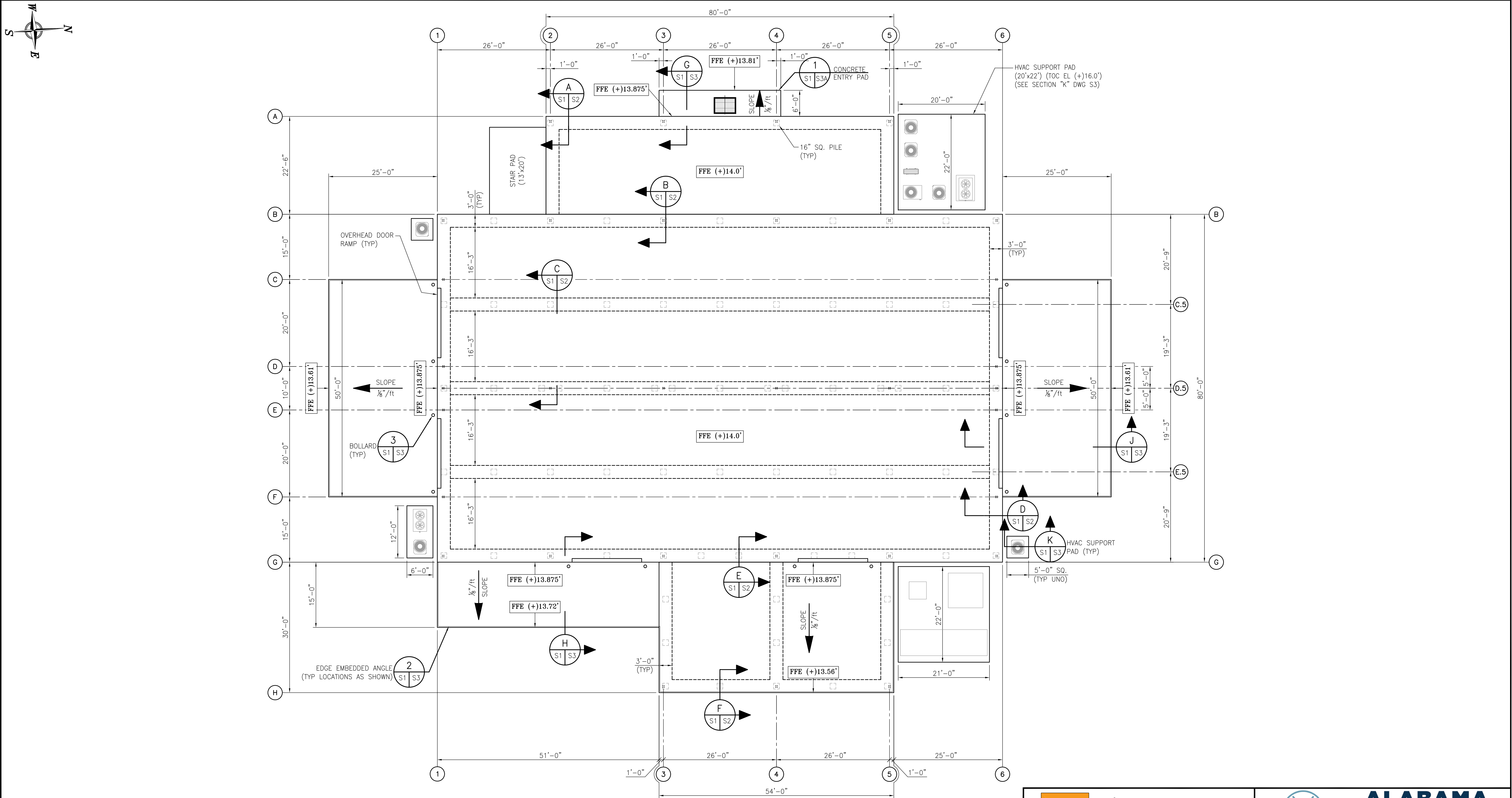
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PILE LOCATION PLAN

REV: E

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

NOTES	

		E	ISSUED FOR BID	JLH	JEJ	RSG	01-14-26
		D	100% DESIGN REVIEW	JLH	JEJ	RSG	09-09-25
		C	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25
		B	60% DESIGN REVIEW	JLH	JEJ	RSG	06-10-25
		A	30% DESIGN REVIEW	JLH	JEJ	RSG	04-11-25
REFERENCE DRAWINGS		NO.	REVISION	DRAWN	CK'D	APPD	DATE

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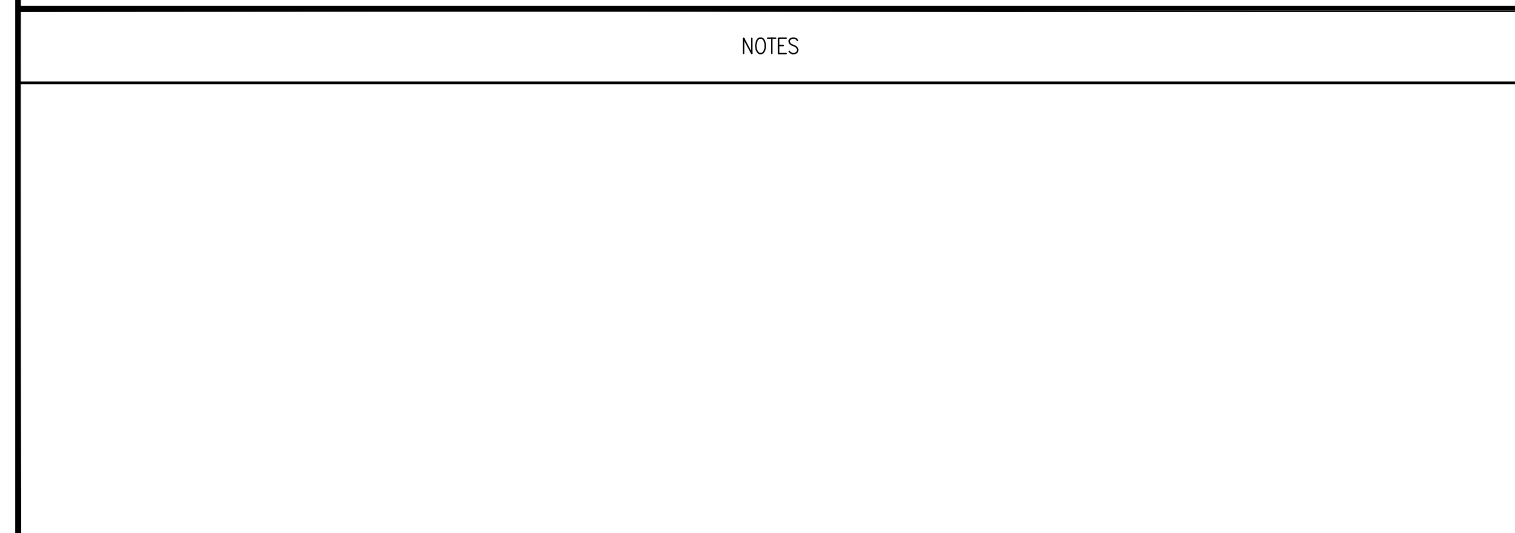
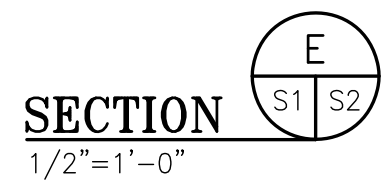
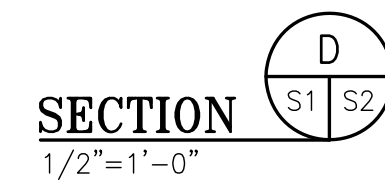
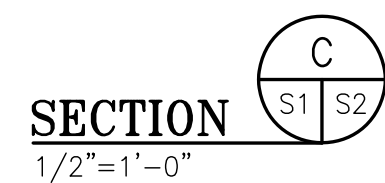
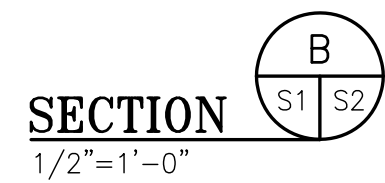
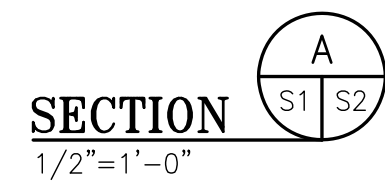
DRAWN: JLH CK'D: JEJ APPD: RSG DATE: 03-05-25 SCALE: AS NOTED

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
FOUNDATION PLAN

FOR: ALABAMA PORT AUTHORITY

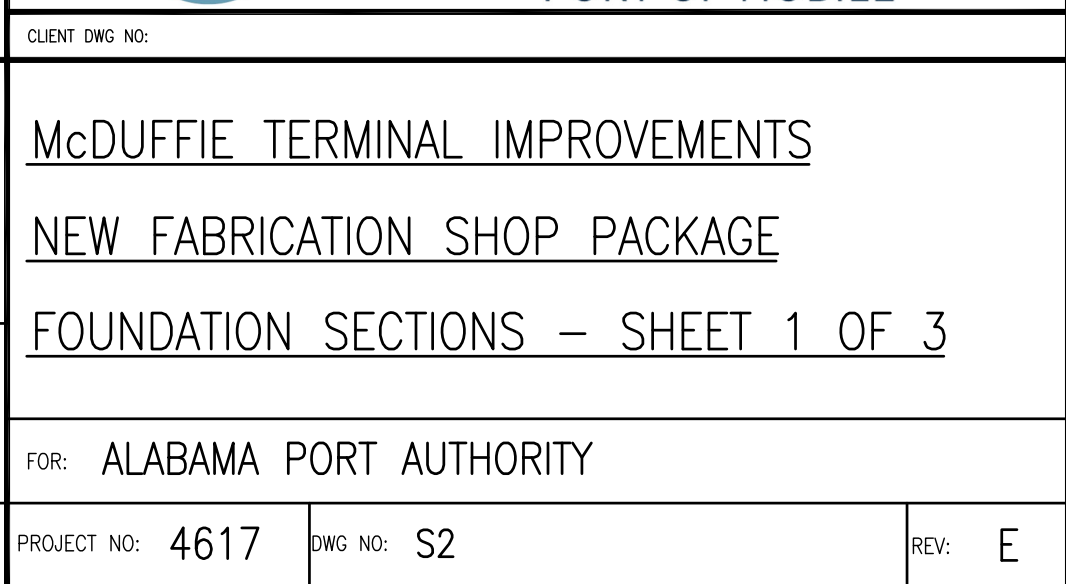
PROJECT NO: 4617	DWG NO: S1	REV: E
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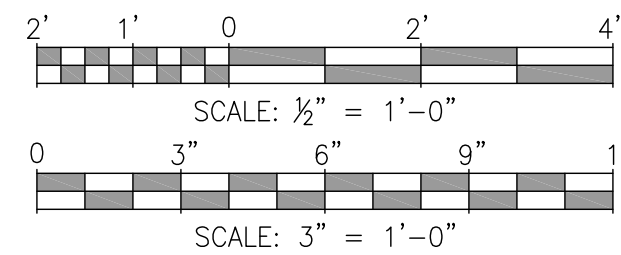
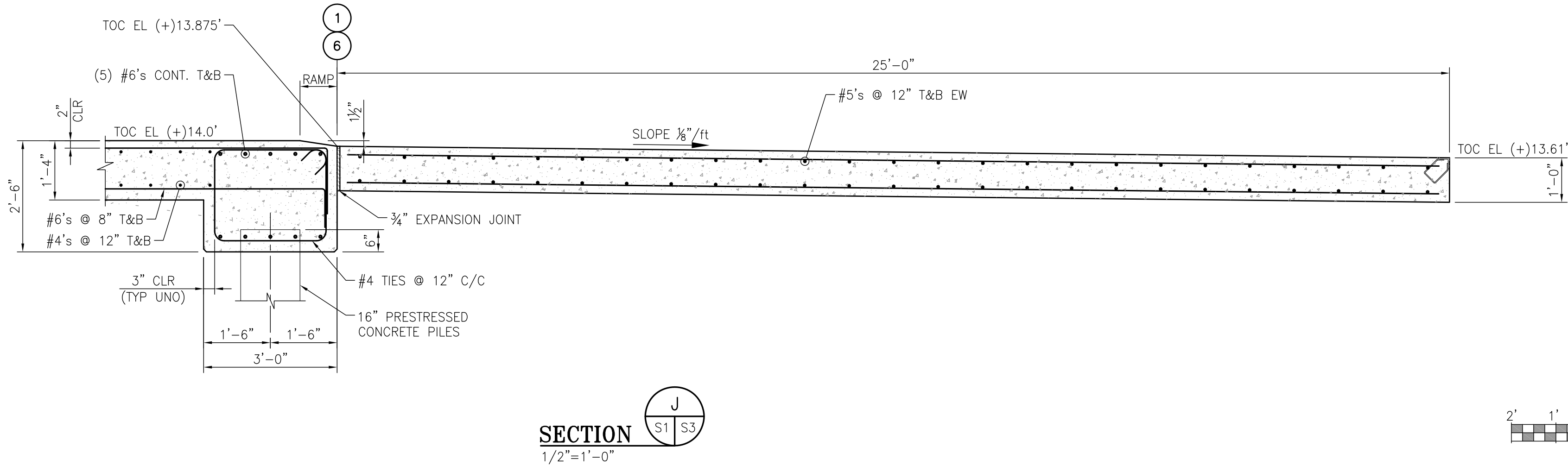
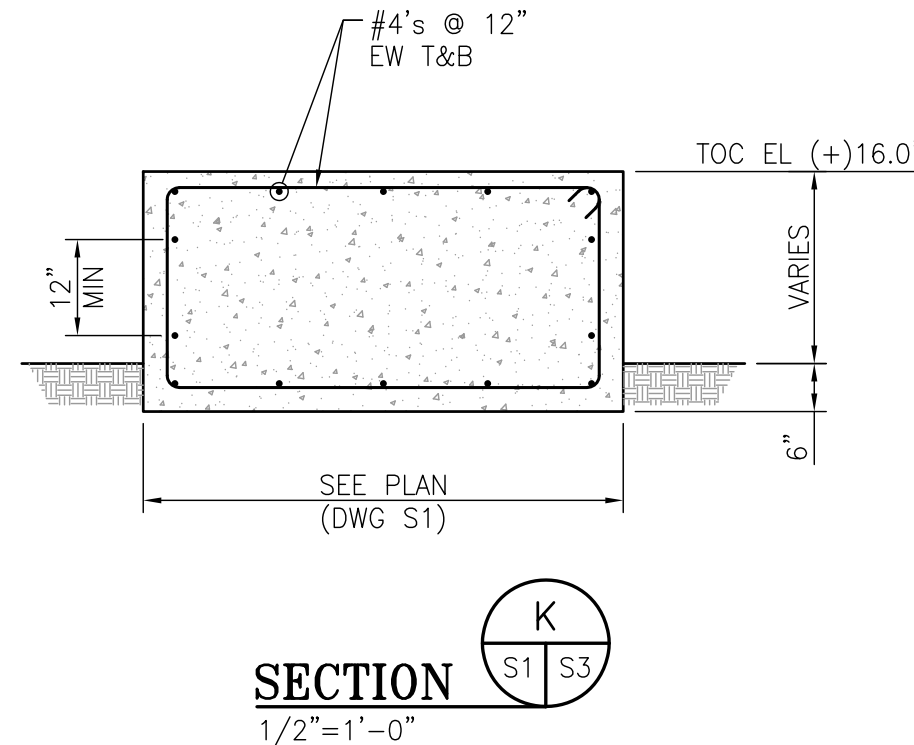
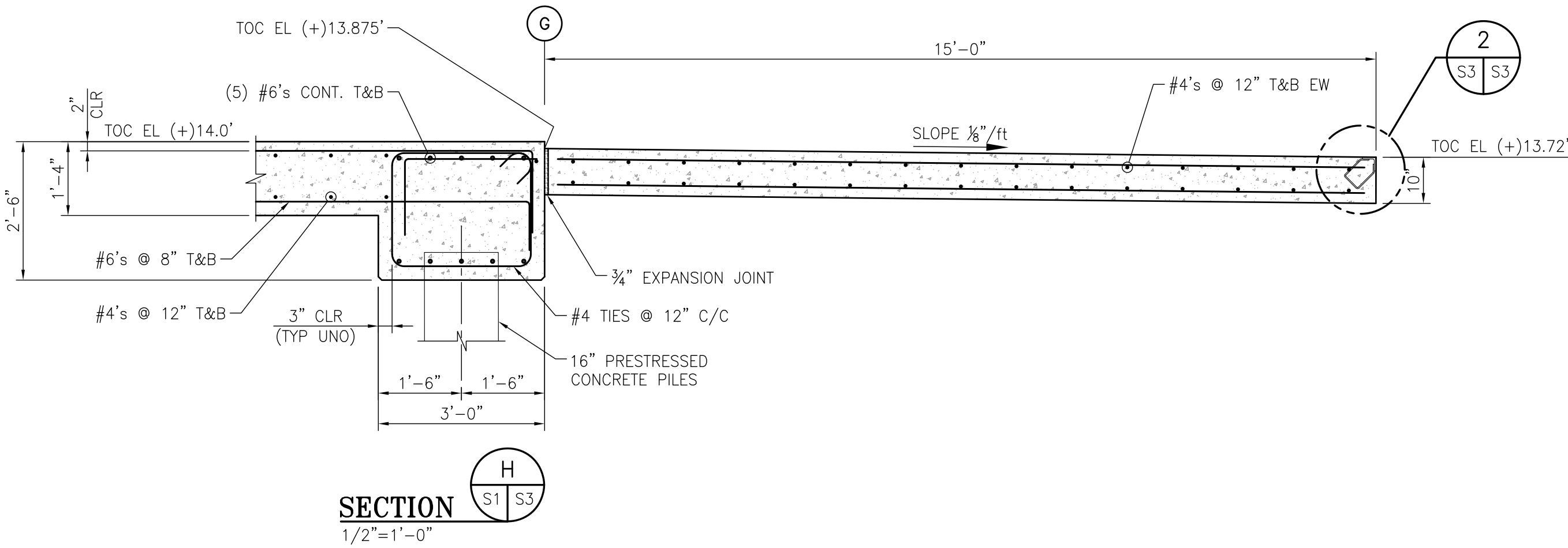
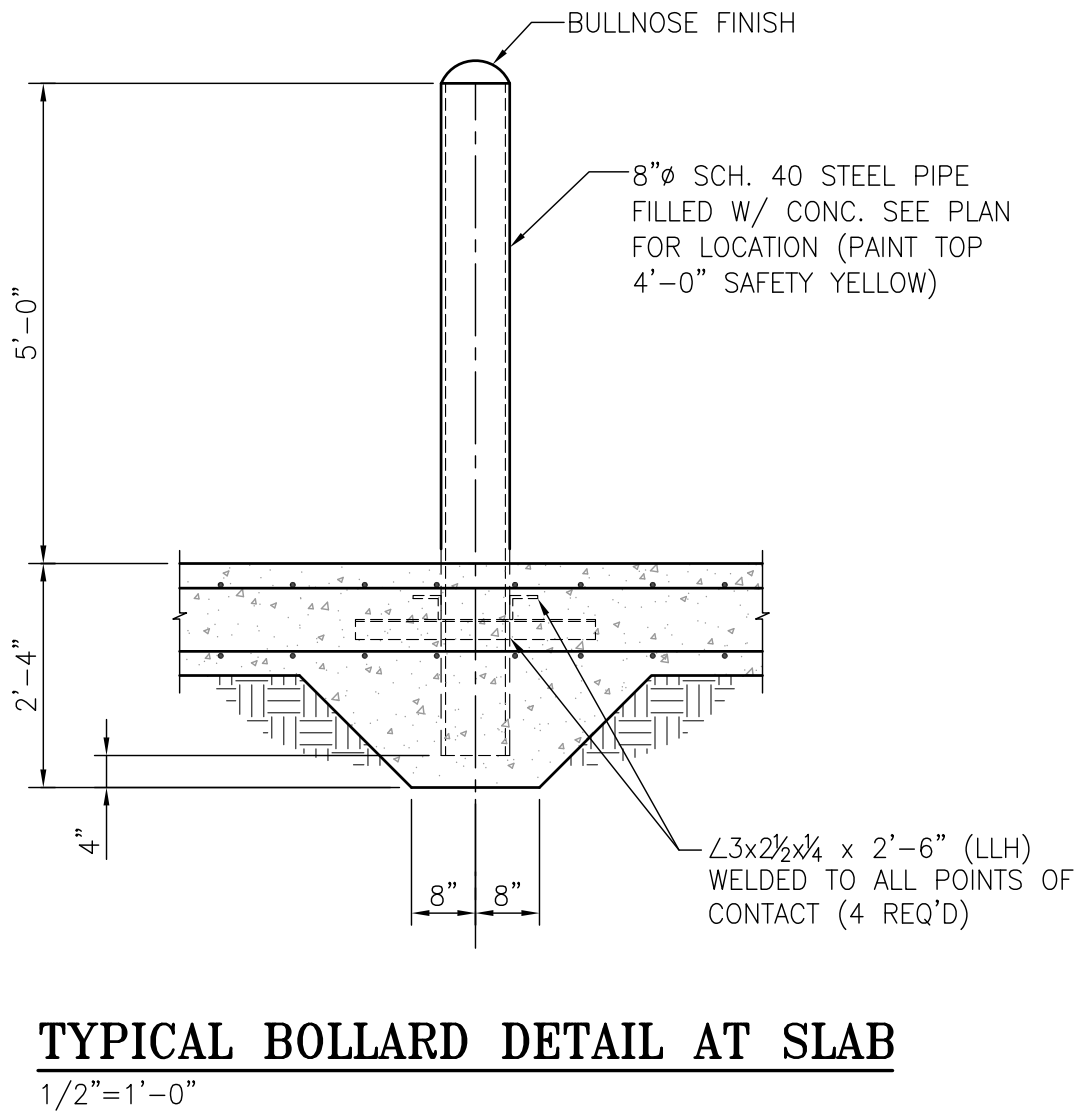
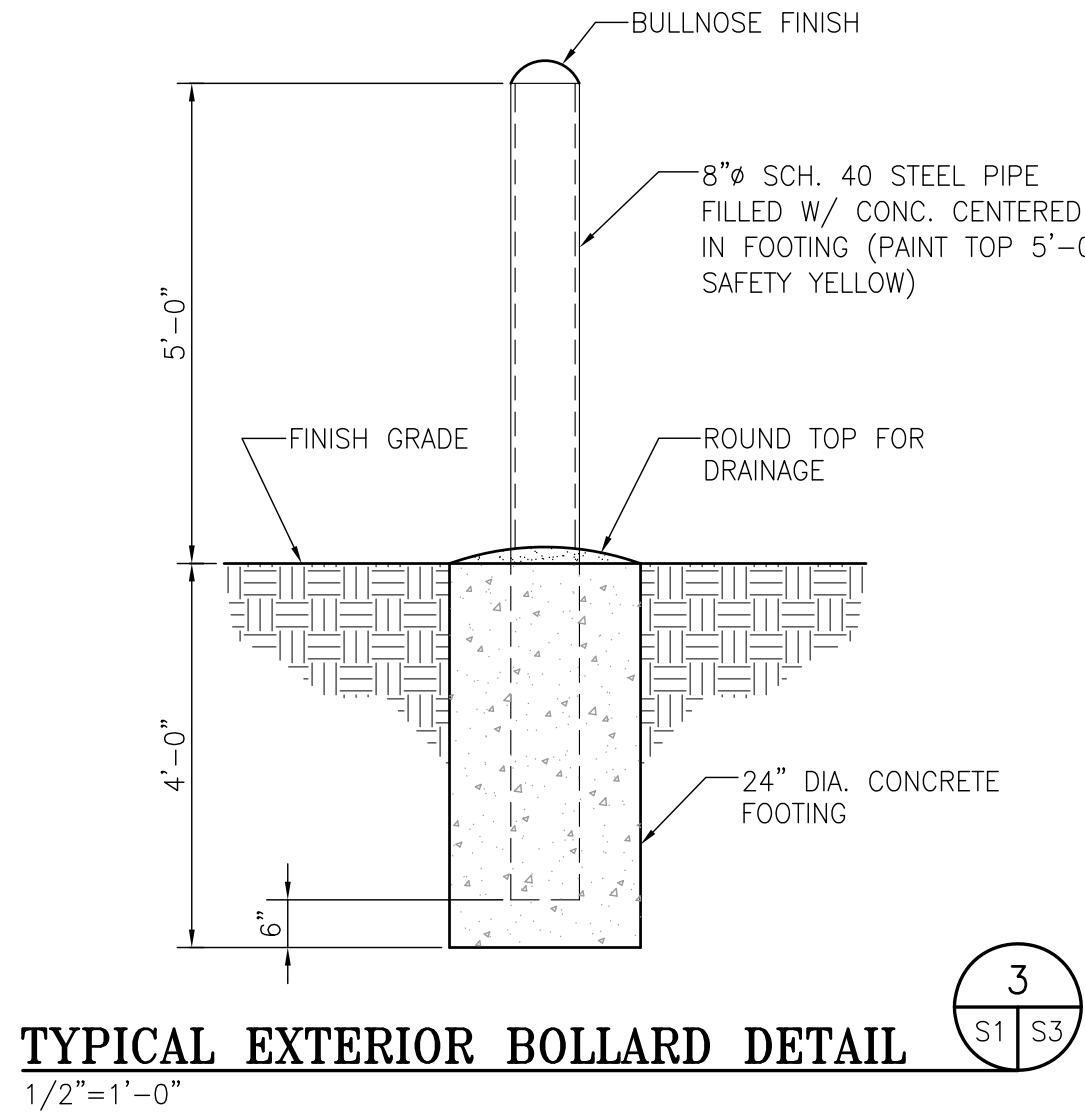
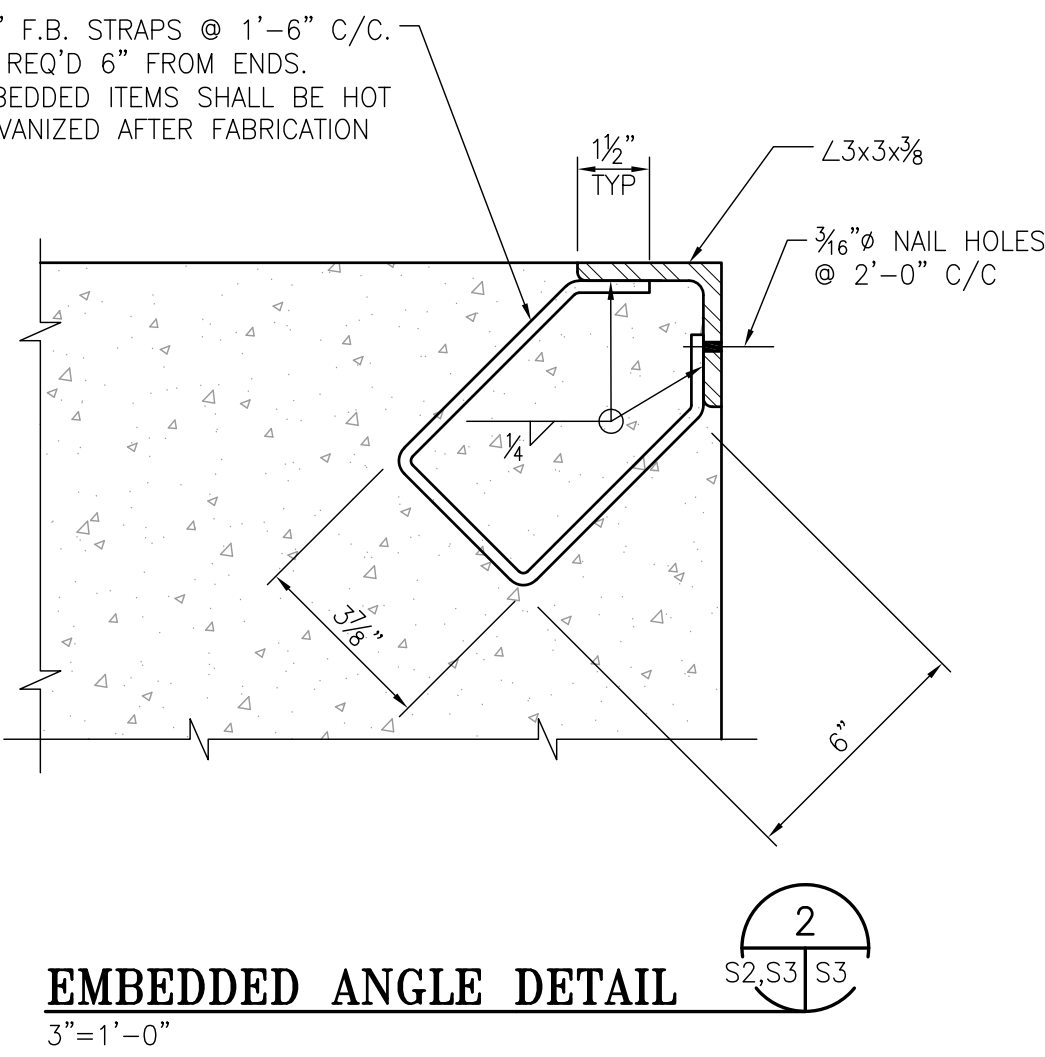
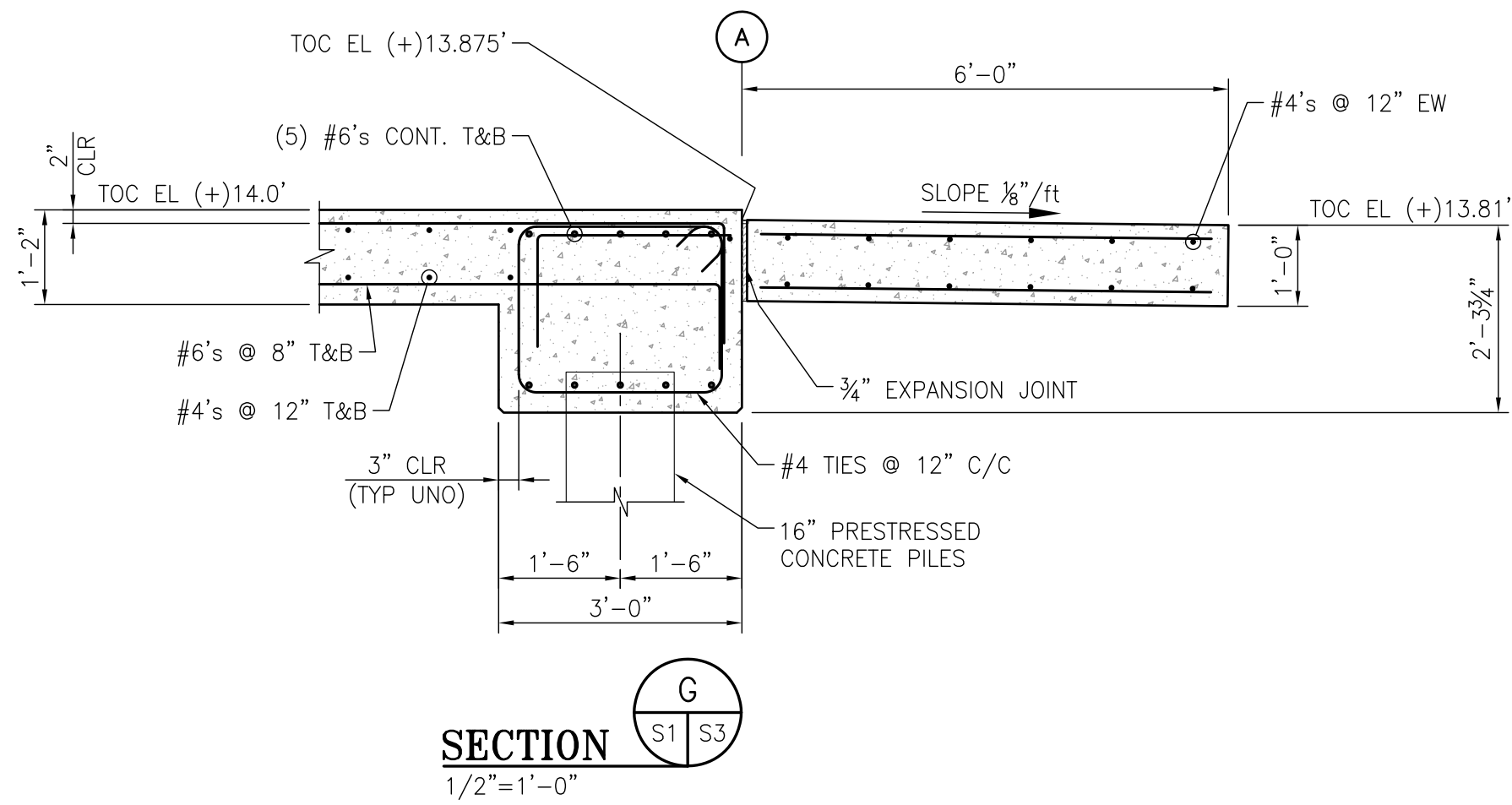


	E	ISSUED FOR BID	JLH	JEJ	RSG	01-14-26
	D	100% DESIGN REVIEW	JLH	JEJ	RSG	09-09-25
	C	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25
	B	60% DESIGN REVIEW	JLH	JEJ	RSG	06-10-25
	A	30% DESIGN REVIEW	JLH	JEJ	RSG	04-11-25
REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE



DRAWN: JLH	CK'D: JEJ	APPD: RSG	DATE: 03-05-25	SCALE: AS NOTED
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ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

FOUNDATION SECTIONS – SHEET 2 OF 3

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617

DWG NO: S3

REV: D



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DRAWN: JLH

CK'D: JEJ

APPD: RSG

DATE: 03-05-25

SCALE: AS NOTED

NOTES

REFERENCE DRAWINGS

NO.

REVISION

DRAWN

CK'D

APPD

DATE

01-14-26

09-09-25

08-08-25

06-10-25

JLH

JLH

JLH

JLH

JEJ

JEJ

JEJ

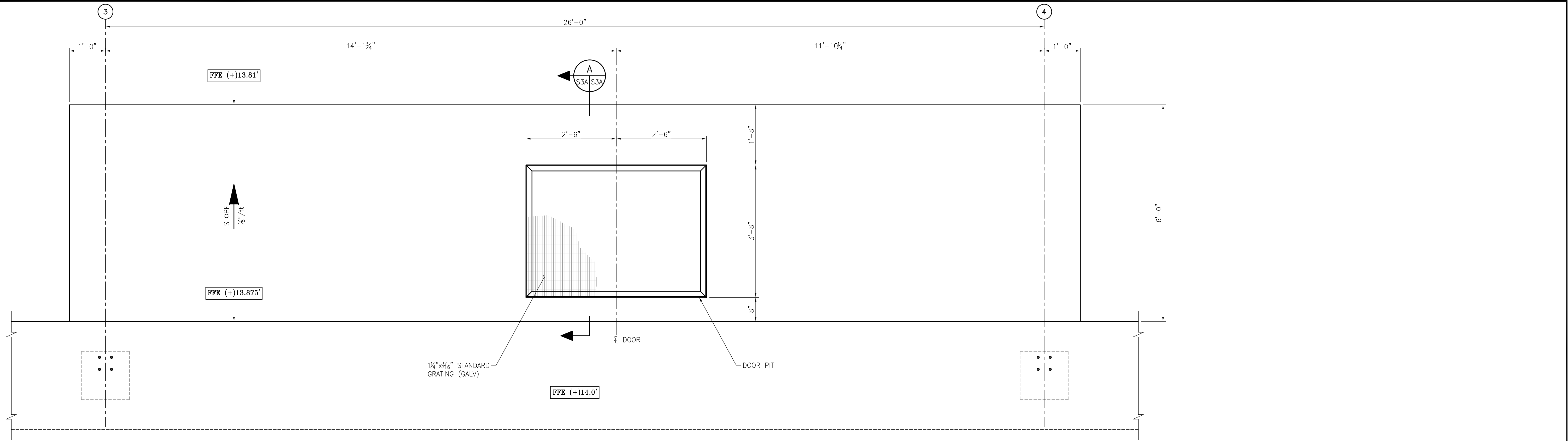
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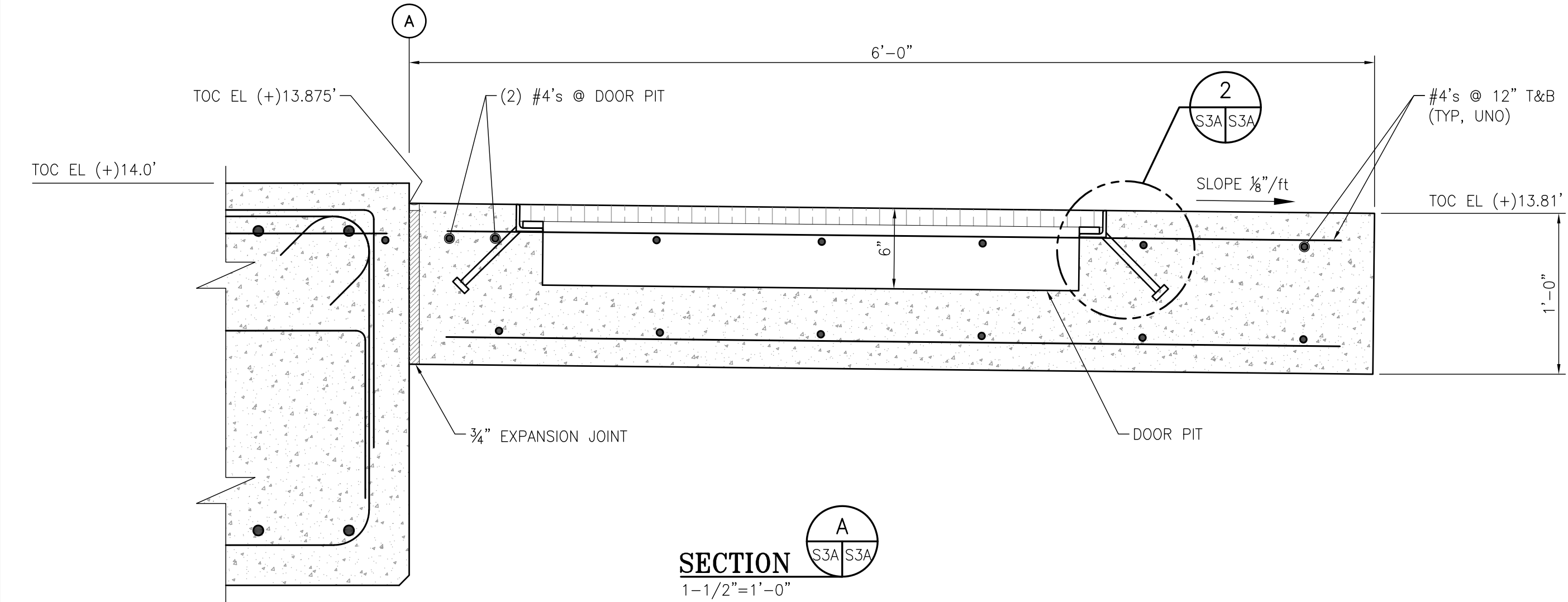
RSG

RSG

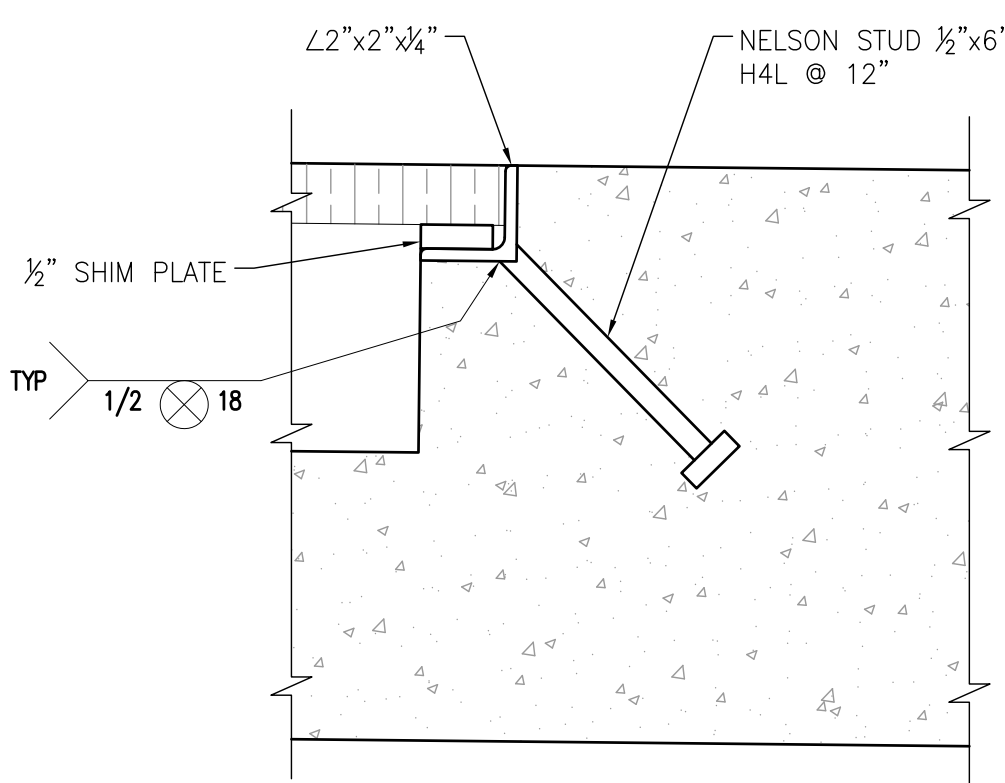
RSG



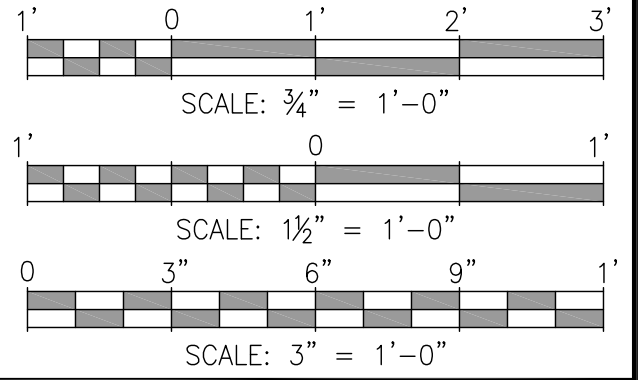
DETAIL 1
3/4"=1'-0"



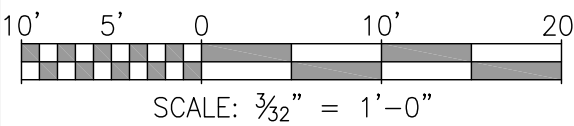
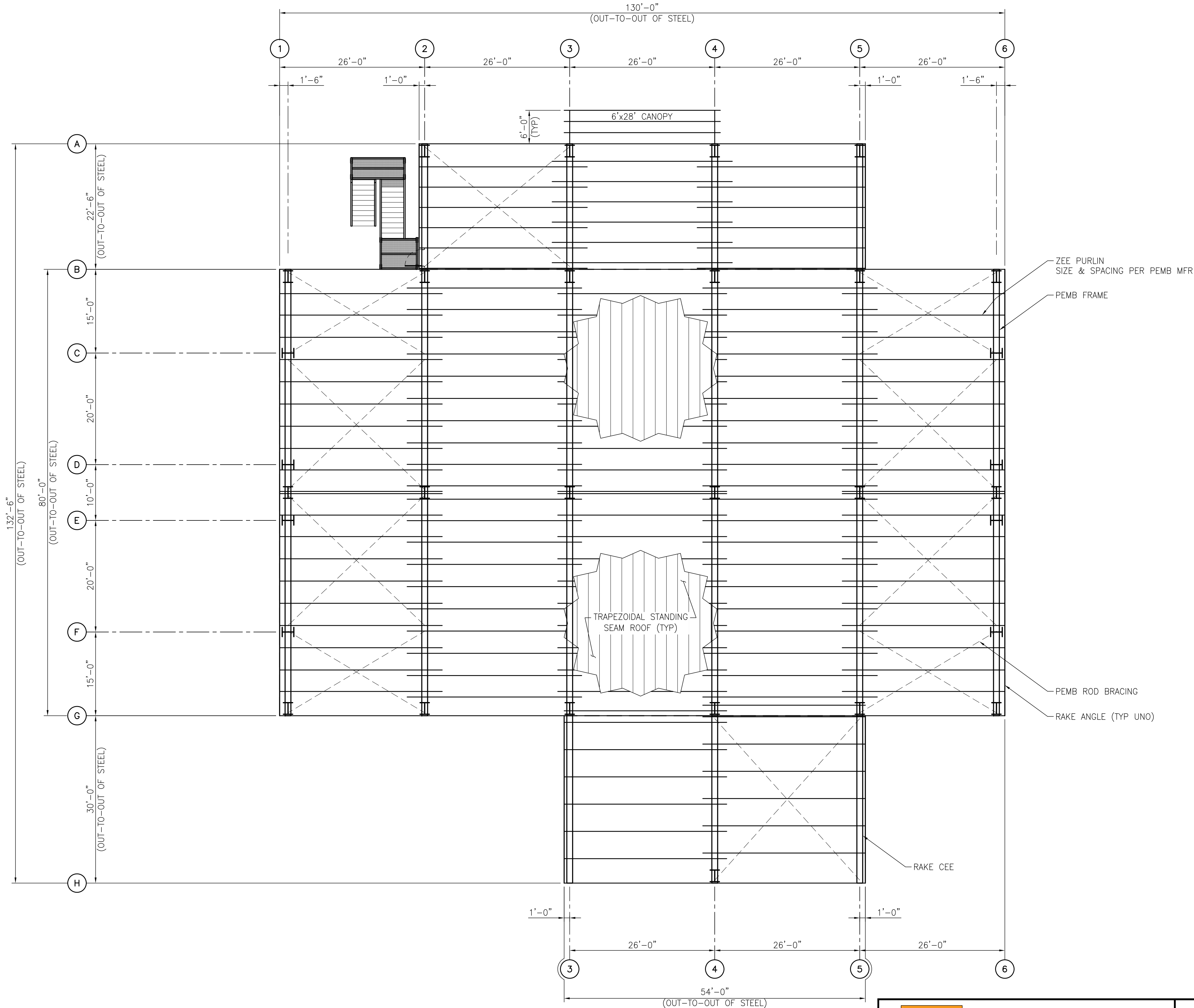
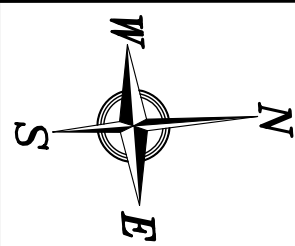
SECTION A
1'-1/2"=1'-0"



DETAIL 2
3"=1'-0"



NOTES		CLIENT DWG NO:	
		McDUFFIE TERMINAL IMPROVEMENTS	
		NEW FABRICATION SHOP PACKAGE	
		FOUNDATION SECTIONS – SHEET 3 OF 3	
		FOR: ALABAMA PORT AUTHORITY	
		PROJECT NO: 4617	DWG NO: S3A
REFERENCE DRAWINGS		NO.	REVISION
		DRAWN	CK'D
		APPD	DATE
		DRAWN: JLH	CK'D: JEJ
		APPD: RSG	DATE: 11-05-25
		SCALE: AS NOTED	REV: A



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



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
ROOF FRAMING PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617

DWG NO: S4

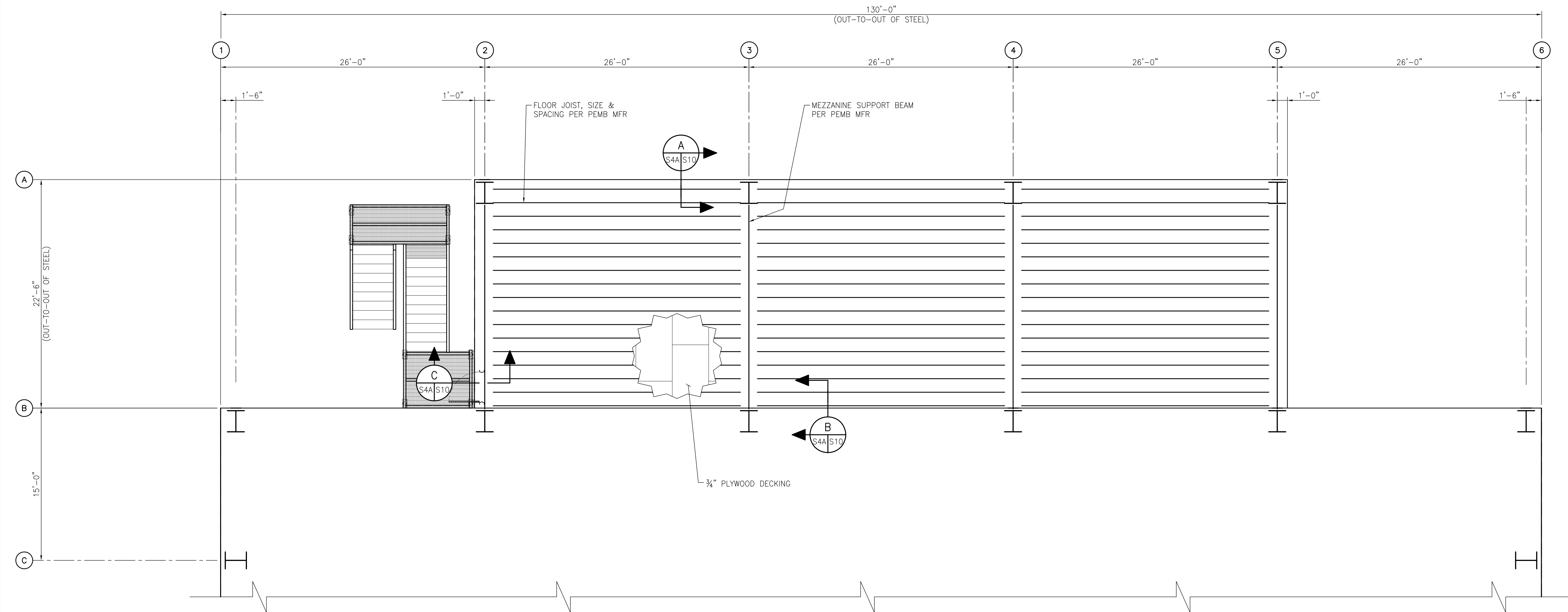
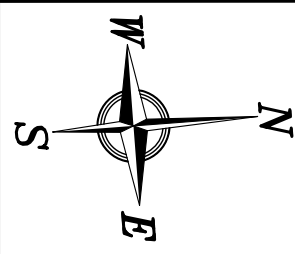
REV: D



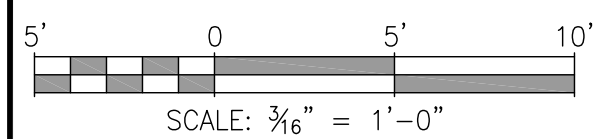
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DRAWN: JLH CK'D: JEJ APPD: RSG DATE: 03-05-25 SCALE: AS NOTED

NOTES							
		D	ISSUED FOR BID	JLH	JEJ	RSG	01-14-26
		C	100% DESIGN REVIEW	JLH	JEJ	RSG	09-09-25
		B	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25
		A	60% DESIGN REVIEW	JLH	JEJ	RSG	06-10-25
REFERENCE DRAWINGS		NO.	REVISION	DRAWN	CK'D	APPD	DATE



MEZZANINE FLOOR FRAMING PLAN @ EL (+)26.0'
3/16"=1'-0"



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
MEZZANINE FLOOR FRAMING PLAN

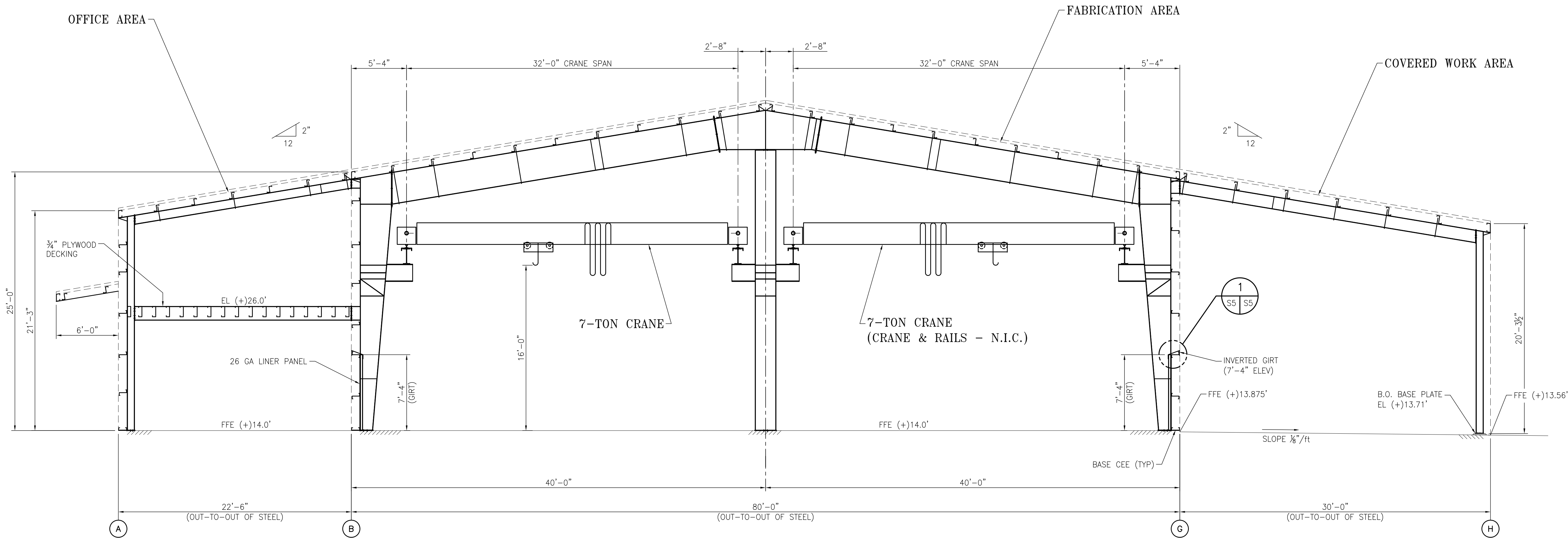
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617

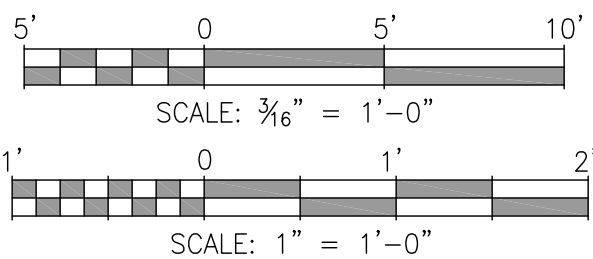
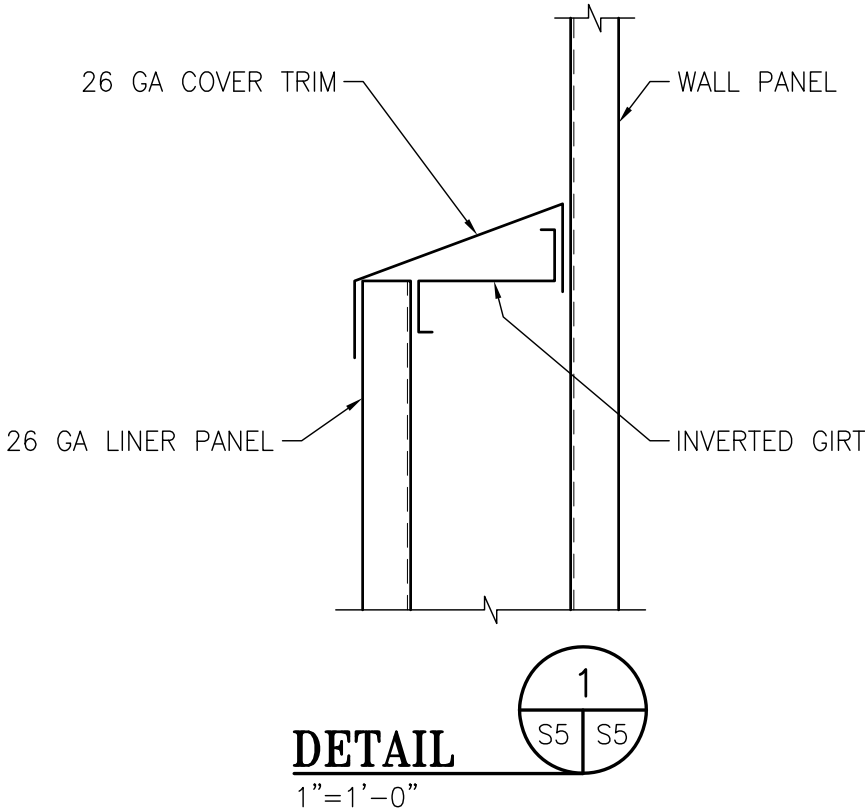
DWG NO: S4A

D

NOTES							
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		B	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25
		A	60% DESIGN REVIEW	JLH	JEJ	RSG	06-10-25
	REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE



TYPICAL FRAME ELEVATION
3/16"=1'-0"



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:



McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
TYPICAL FRAME ELEVATION

FOR: ALABAMA PORT AUTHORITY

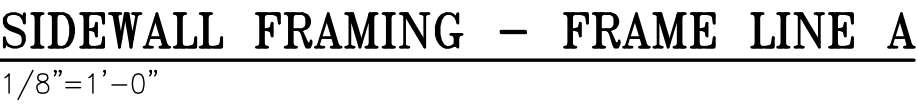
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DRAWN: JLH CK'D: JEJ APPD: RSG DATE: 01-03-25 SCALE: AS NOTED

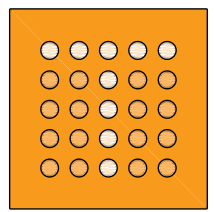
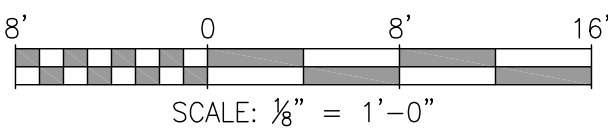
PROJECT NO: 4617

DWG NO: S5

REV: E




SIDEWALL SHEETING - FRAME LINE A
1/8"=1'-0"

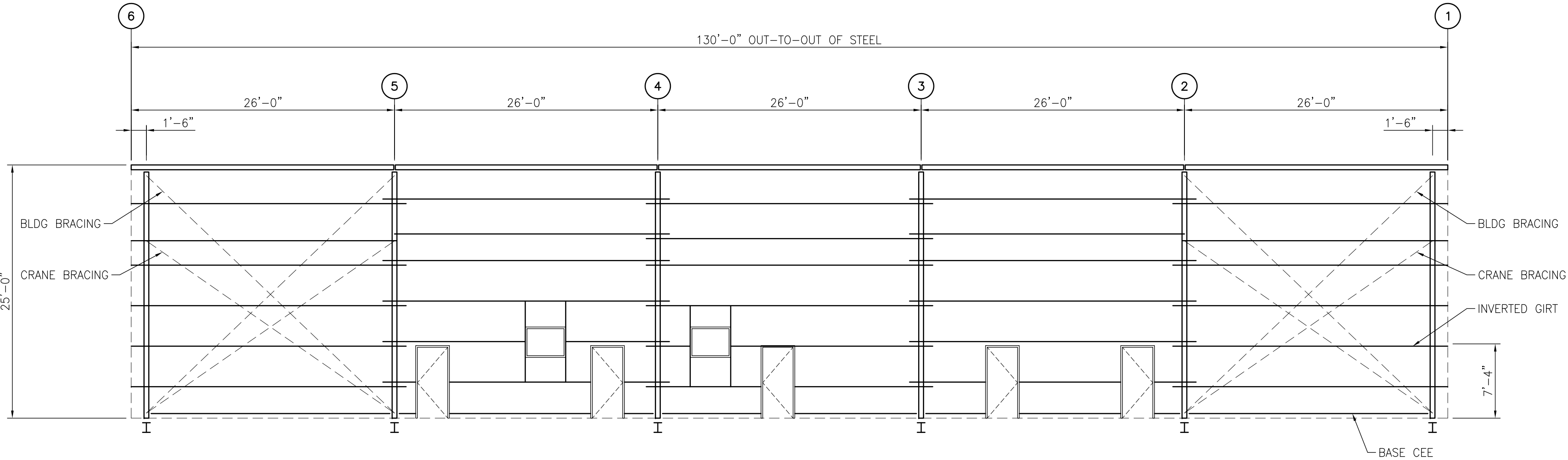


thompson
ENGINEERING



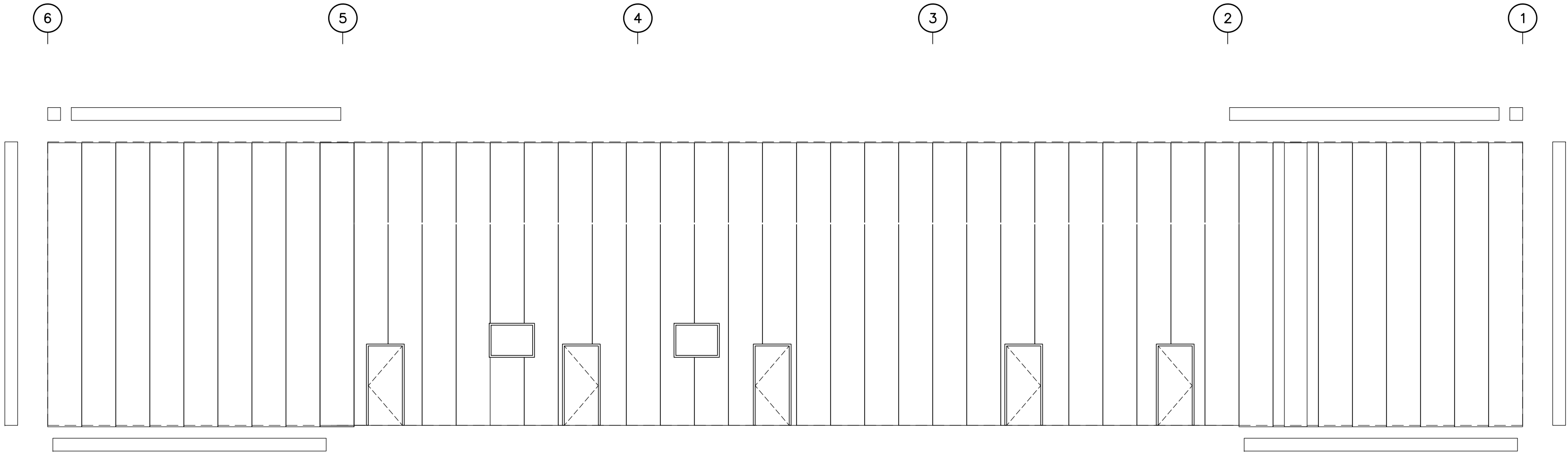
ALABAMA
PORT AUTHORITY
PORT OF MOBILE

NOTES								 APTIM PORT SERVICES, LLC				McDUFFIE TERMINAL IMPROVEMENTS			
												NEW FABRICATION SHOP PACKAGE			
		D	ISSUED FOR BID	JLH	JEJ	RSG	01-14-26	<small>THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.</small>				SIDEWALL FRAMING — FRAME LINE A			
		C	100% DESIGN REVIEW	JLH	JEJ	RSG	09-09-25								
		B	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25								
		A	60% DESIGN REVIEW	JLH	JEJ	RSG	06-10-25								
	REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE	DRAWN: JLH	CK'D: JEJ	APPD: RSG	DATE: 03-05-25	SCALE: AS NOTED	PROJECT NO: 4617	DWG NO: S6	REV: D

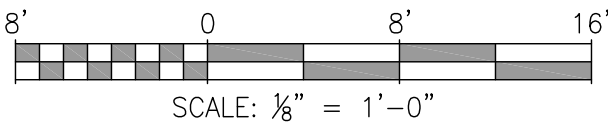


SIDEWALL FRAMING – FRAME LINE B
1/8"=1'-0"

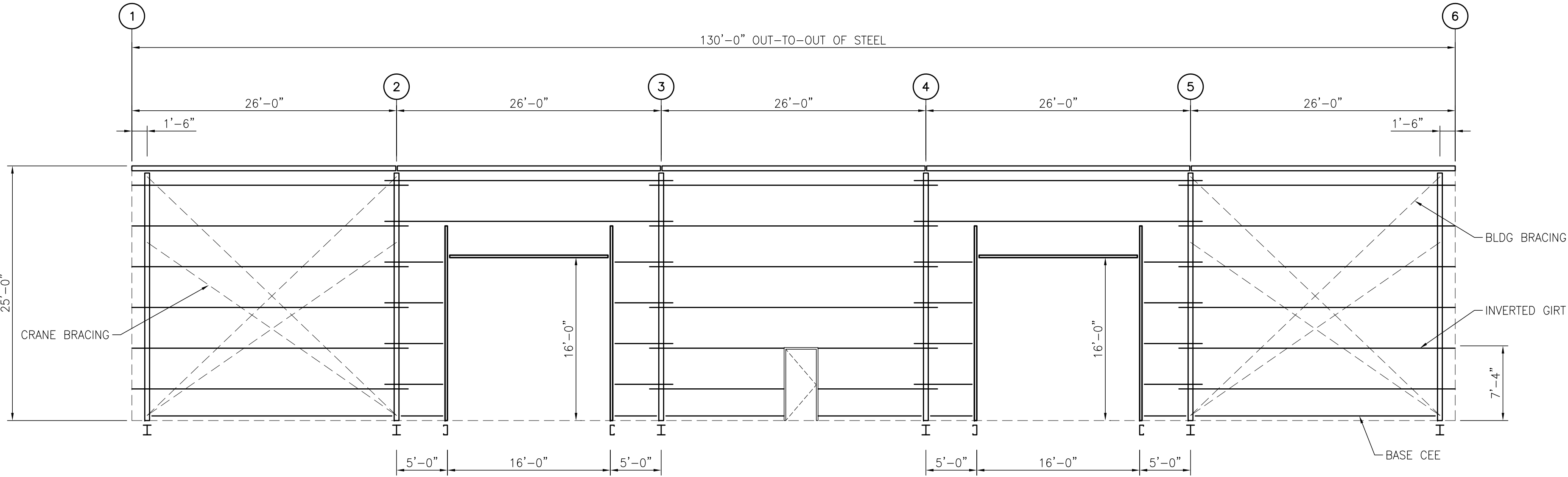
NOTE: 26 GA LINER PANELS
REQ'D (7'-4" GIRT).



SIDEWALL SHEETING – FRAME LINE B
1/8"=1'-0"

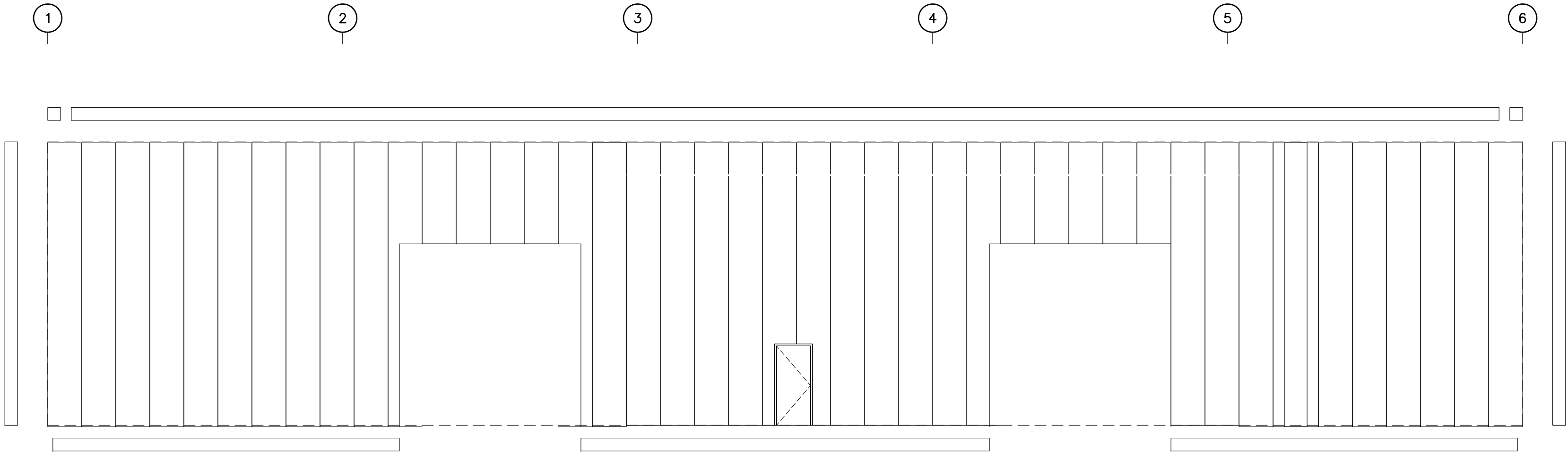


NOTES		D		ISSUED FOR BID		JLH	JEJ	RSG	01-14-26	<div></div> <p>THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.</p>	McDUFFIE TERMINAL IMPROVEMENTS NEW FABRICATION SHOP PACKAGE SIDEWALL FRAMING – FRAME LINE B		
		C		100% DESIGN REVIEW		JLH	JEJ	RSG	09-09-25		FOR: ALABAMA PORT AUTHORITY		
		B		95% DESIGN REVIEW		JLH	JEJ	RSG	08-08-25				
		A		60% DESIGN REVIEW		JLH	JEJ	RSG	06-10-25				
REFERENCE DRAWINGS		NO.		REVISION		DRAWN	CK'D	APPD	DATE		DRAWN: JLH CK'D: JEJ APPD: RSG DATE: 03-05-25 SCALE: AS NOTED		
										PROJECT NO: 4617 DWG NO: S7 REV: D			

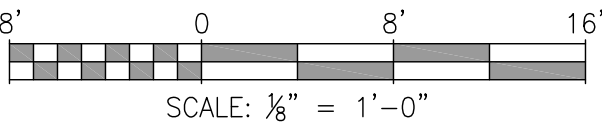


NOTE: 26 GA LINER PANELS
REQ'D (7'-4" GIRT).

SIDEWALL FRAMING - FRAME LINE G
1/8"=1'-0"



SIDEWALL SHEETING - FRAME LINE G
1/8"=1'-0"



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:

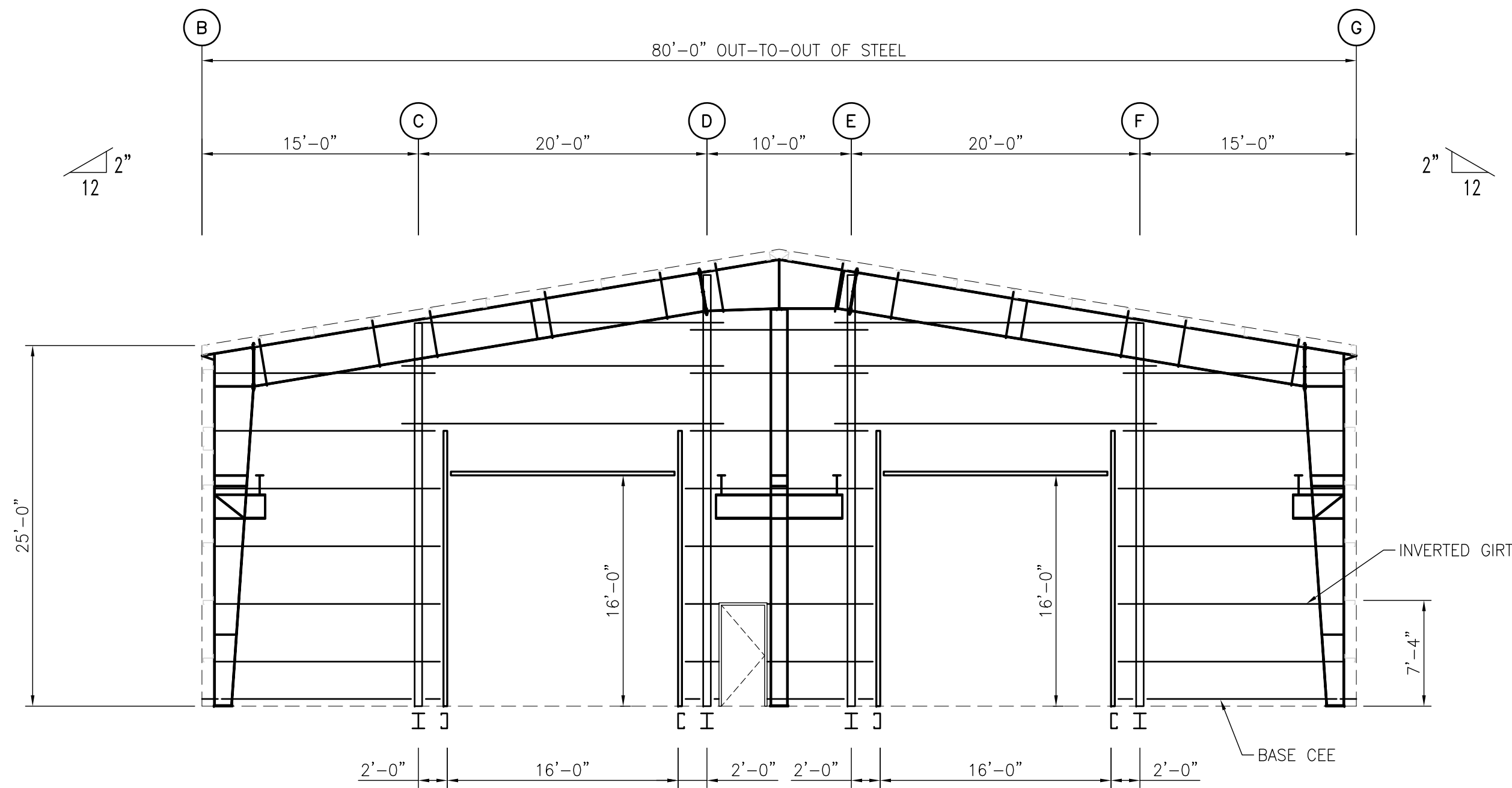
NOTES	

	D	ISSUED FOR BID	JLH	JEJ	RSG	01-14-26	
	C	100% DESIGN REVIEW	JLH	JEJ	RSG	09-09-25	
	B	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25	
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REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE	



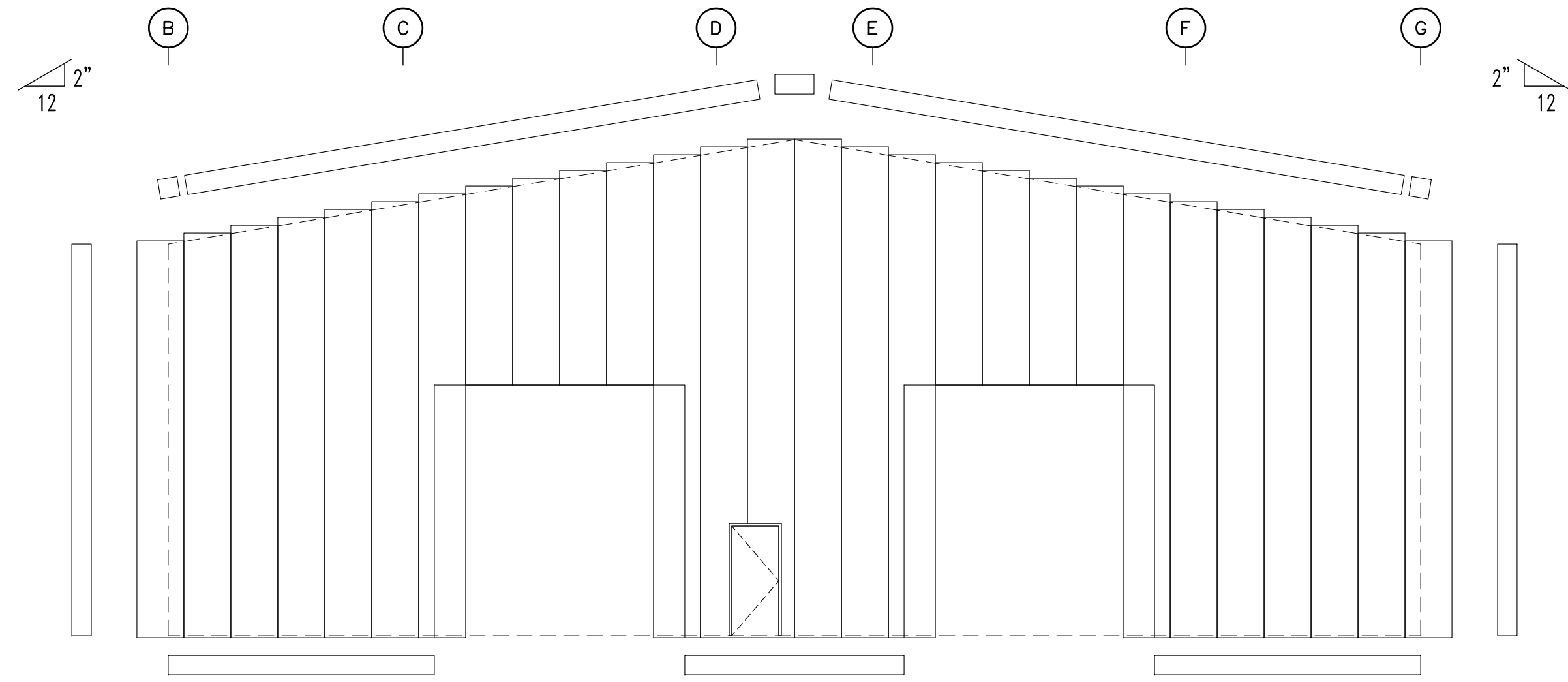
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McDUFFIE TERMINAL IMPROVEMENTS		
NEW FABRICATION SHOP PACKAGE		
SIDEWALL FRAMING - FRAME LINE G		
FOR: ALABAMA PORT AUTHORITY		
PROJECT NO: 4617	DWG NO: S8	REV: D

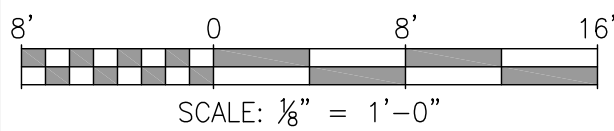


ENDWALL FRAMING – FRAME LINE 1
1/8"=1'-0"

NOTE: 26 GA LINER PANELS
REQ'D (7'-4" GIRT).



ENDWALL SHEETING – FRAME LINE 1
1/8"=1'-0"



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:



McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

ENDWALL FRAMING – FRAME LINE 1

FOR: ALABAMA PORT AUTHORITY

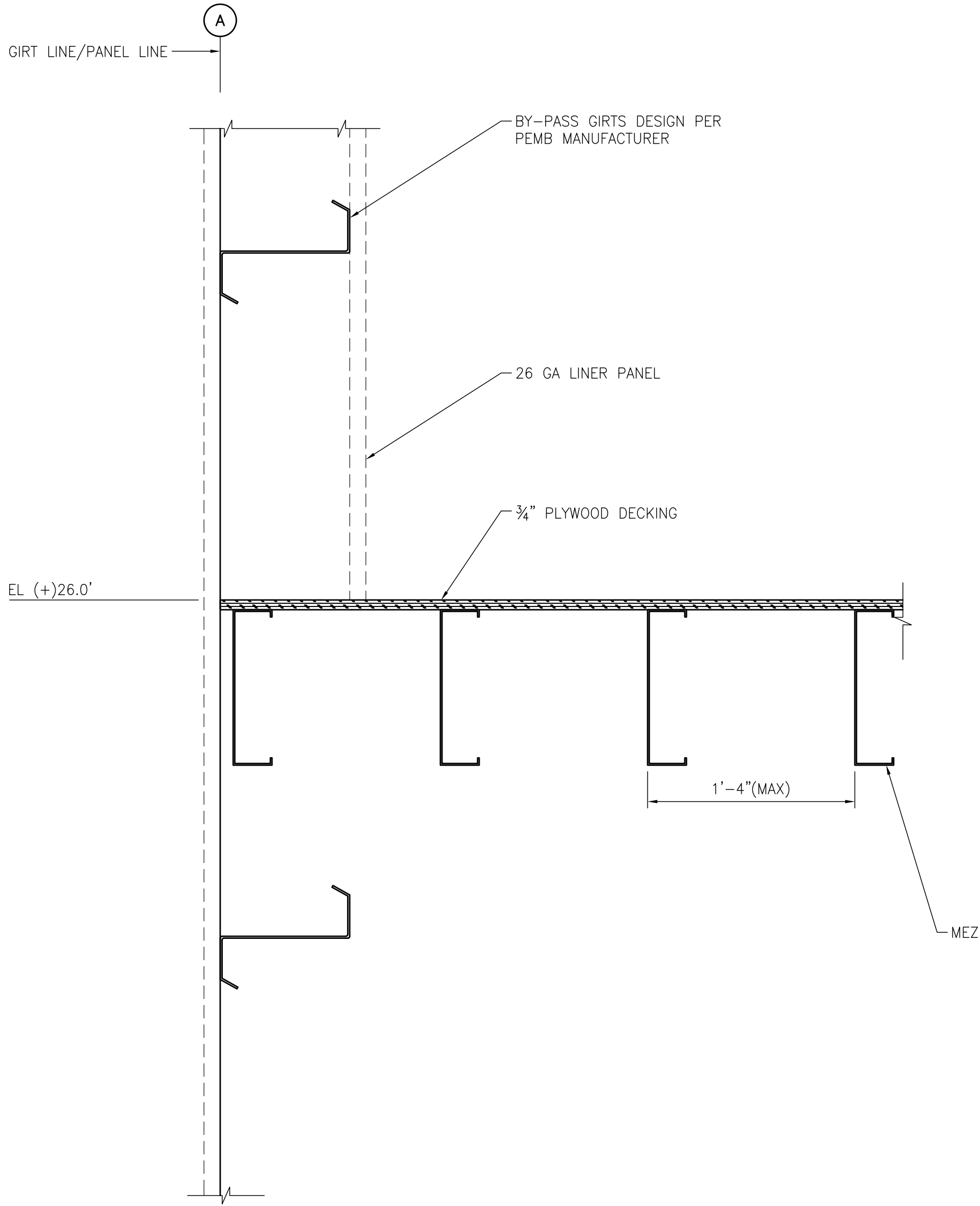
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DRAWN: JLH CK'D: JEJ APPD: RSG DATE: 03-05-25 SCALE: AS NOTED

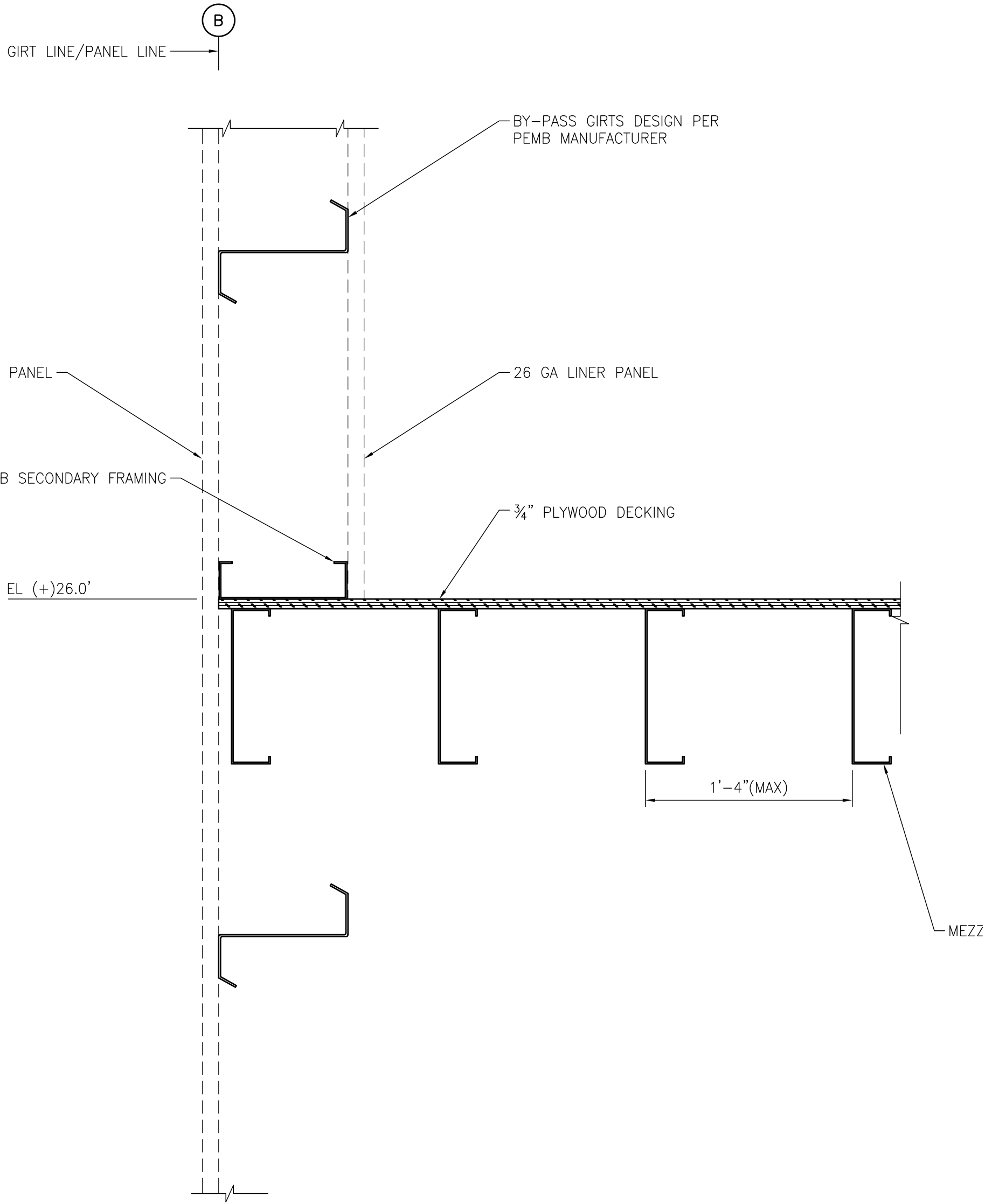
PROJECT NO: 4617

DWG NO: S9

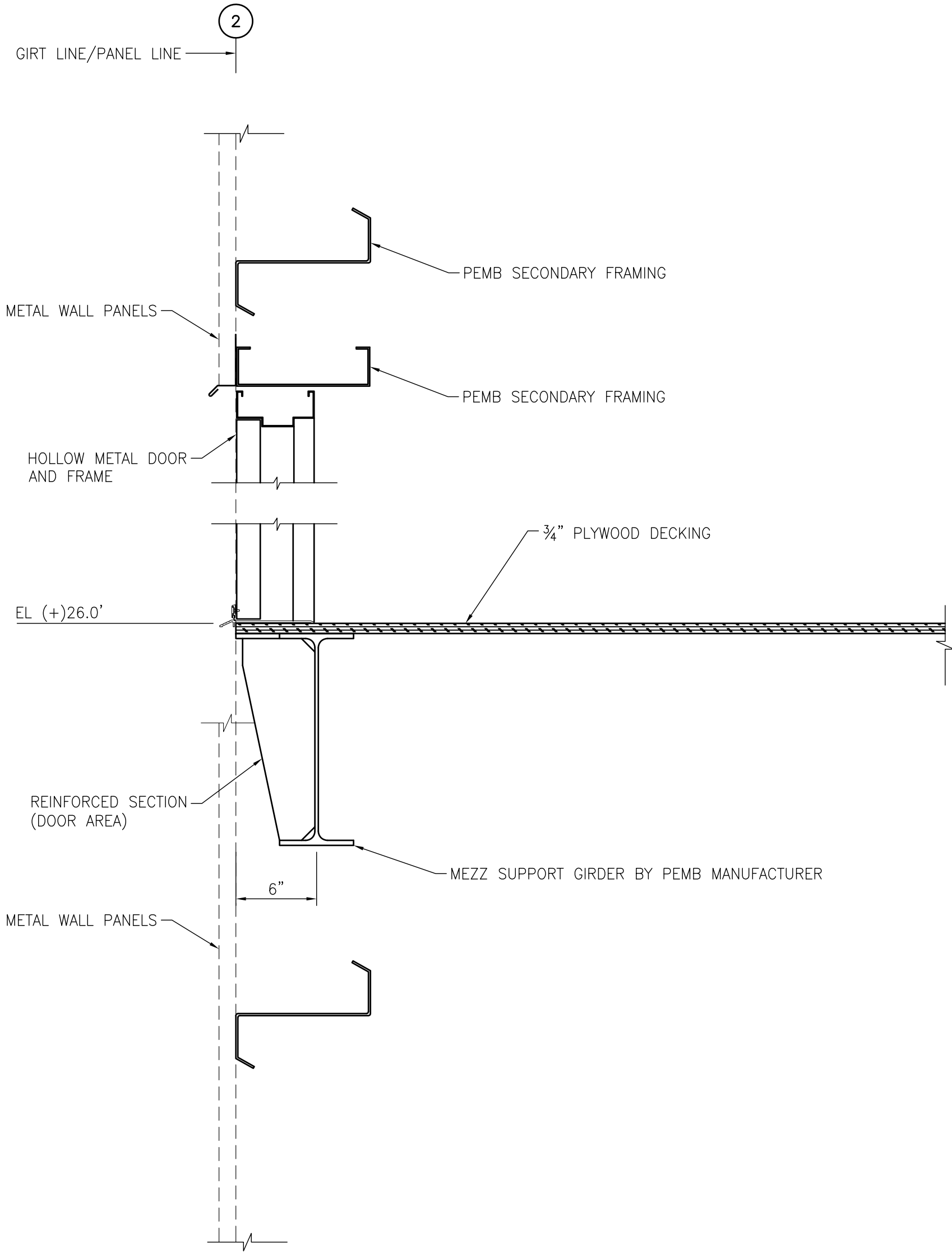
REV: D



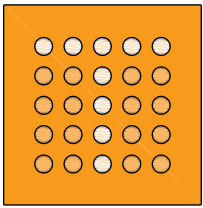
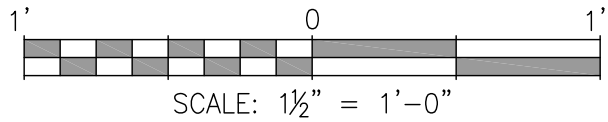
SECTION A
1-1/2"=1'-0"



SECTION B
1-1/2"=1'-0"



SECTION C
1-1/2"=1'-0"



thompson
ENGINEERING



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:

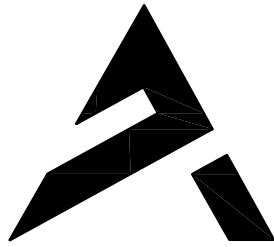
McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
MEZZANINE FLOOR FRAMING SECTIONS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617

DWG NO: S10

REV: C



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PORT SERVICES, LLC

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DRAWN: JLH

CK'D: JEJ

APPD: RSG

DATE: 07-14-25

SCALE: AS NOTED

NOTES

REFERENCE DRAWINGS

NO.

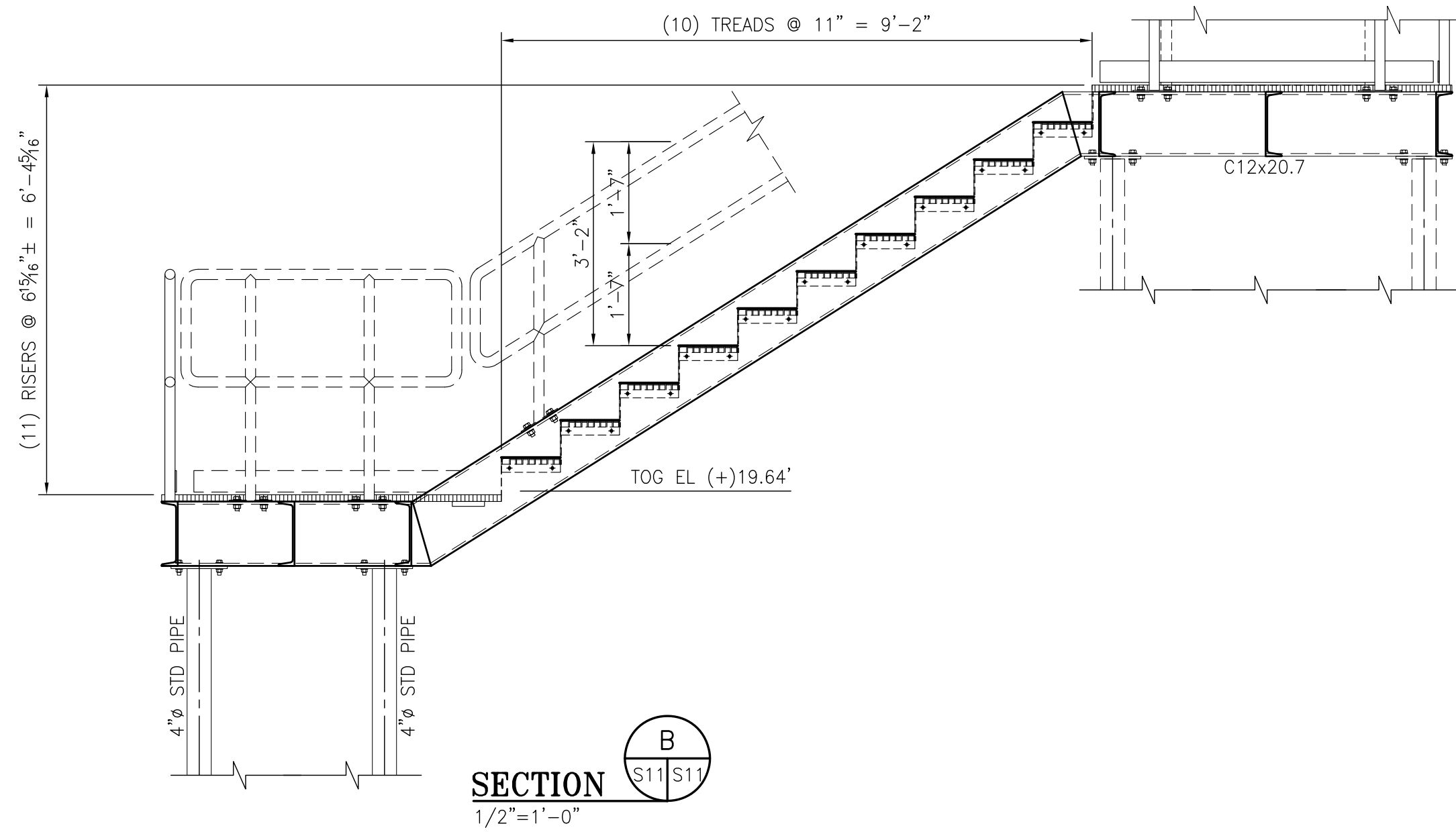
REVISION

DRAWN

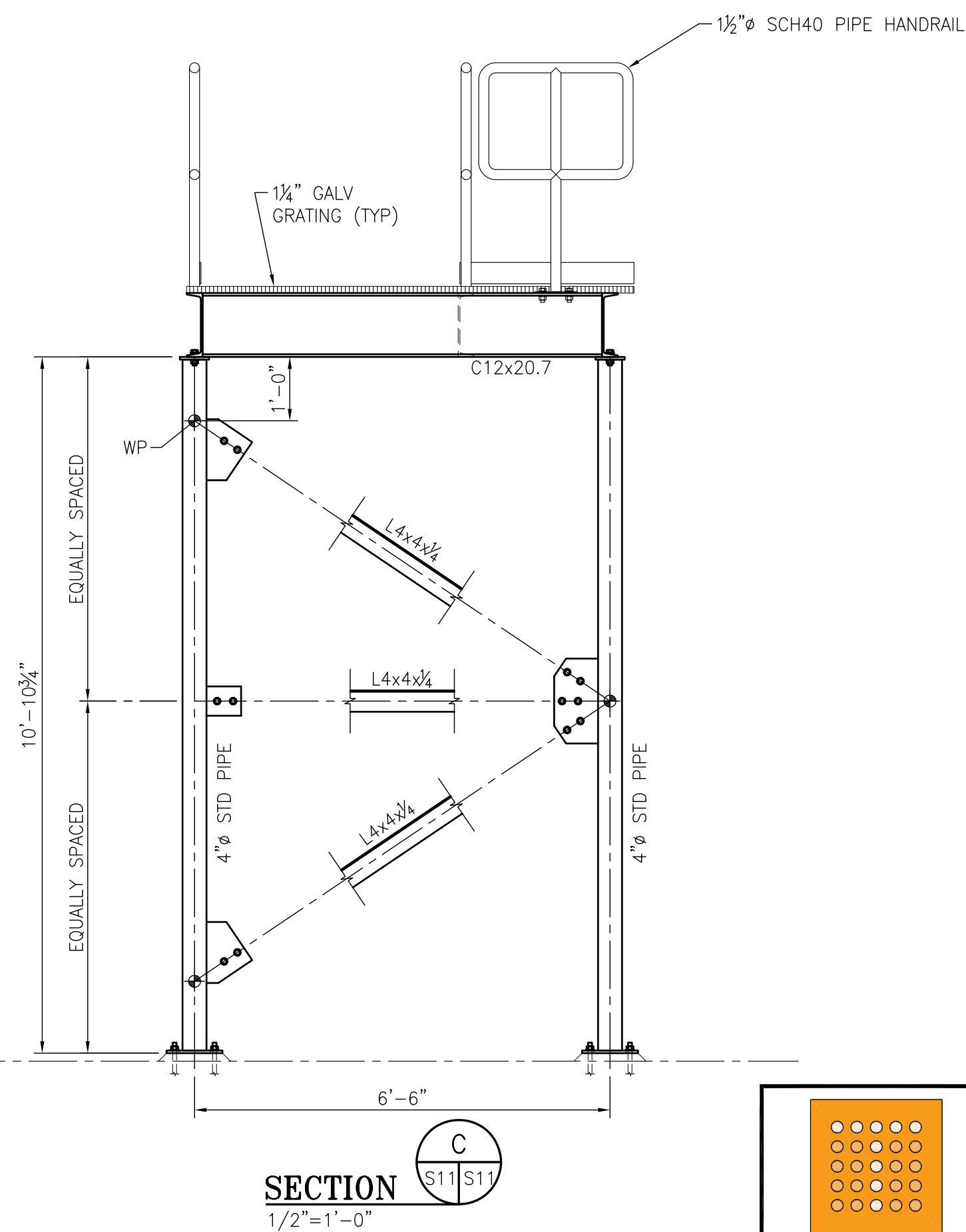
CK'D

APPD

DATE

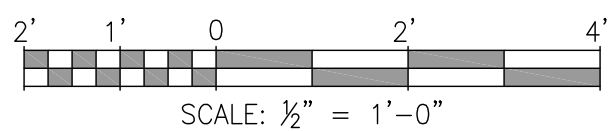


STAIR - PLAN
1/2"=1'-0"



SECTION
1/2"=1'-0"

SECTION
1/2"=1'-0"



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

STAIR PLAN, SECTIONS, & DETAILS

FOR: ALABAMA PORT AUTHORITY

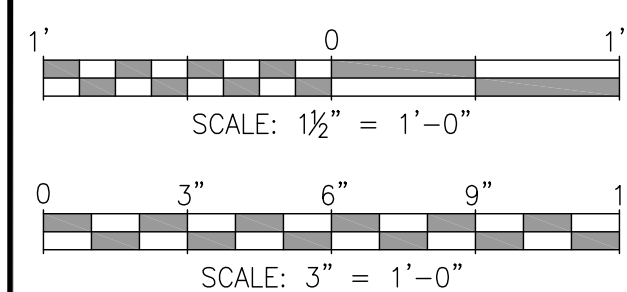
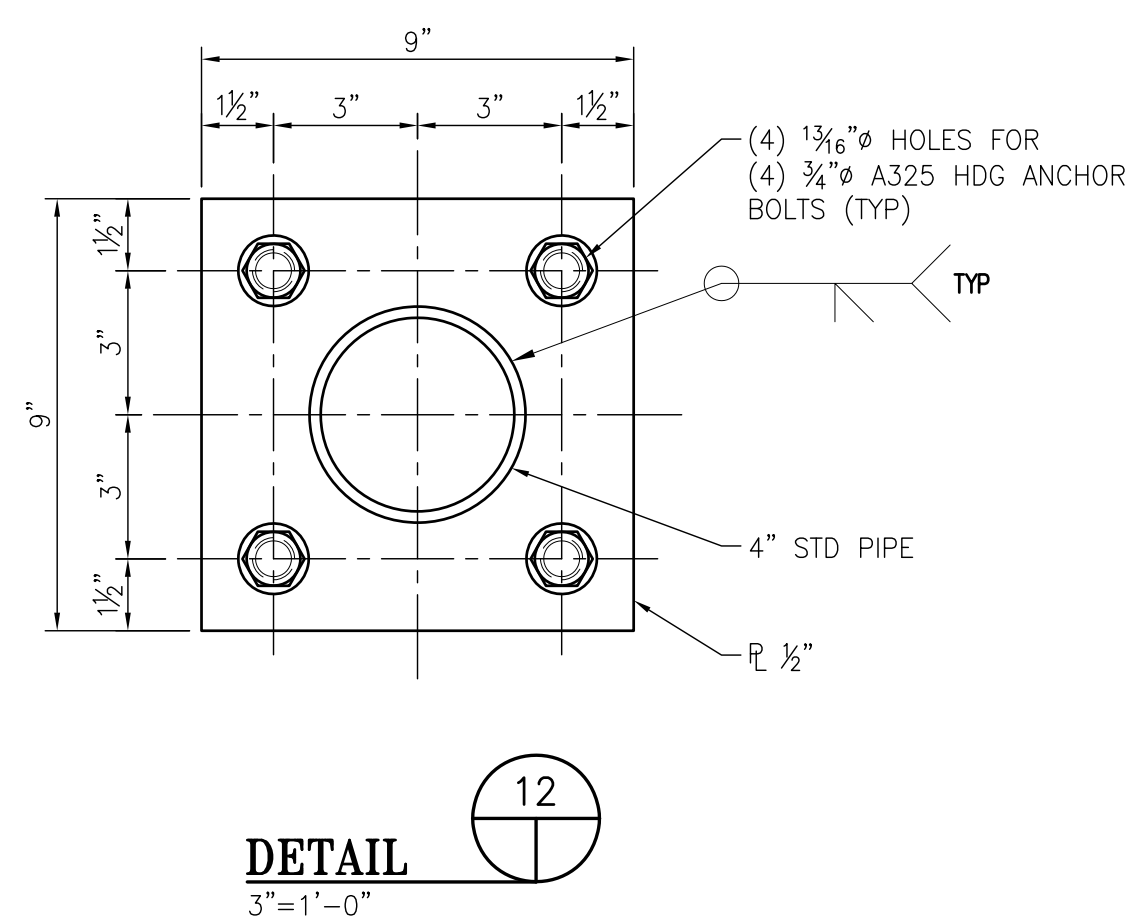
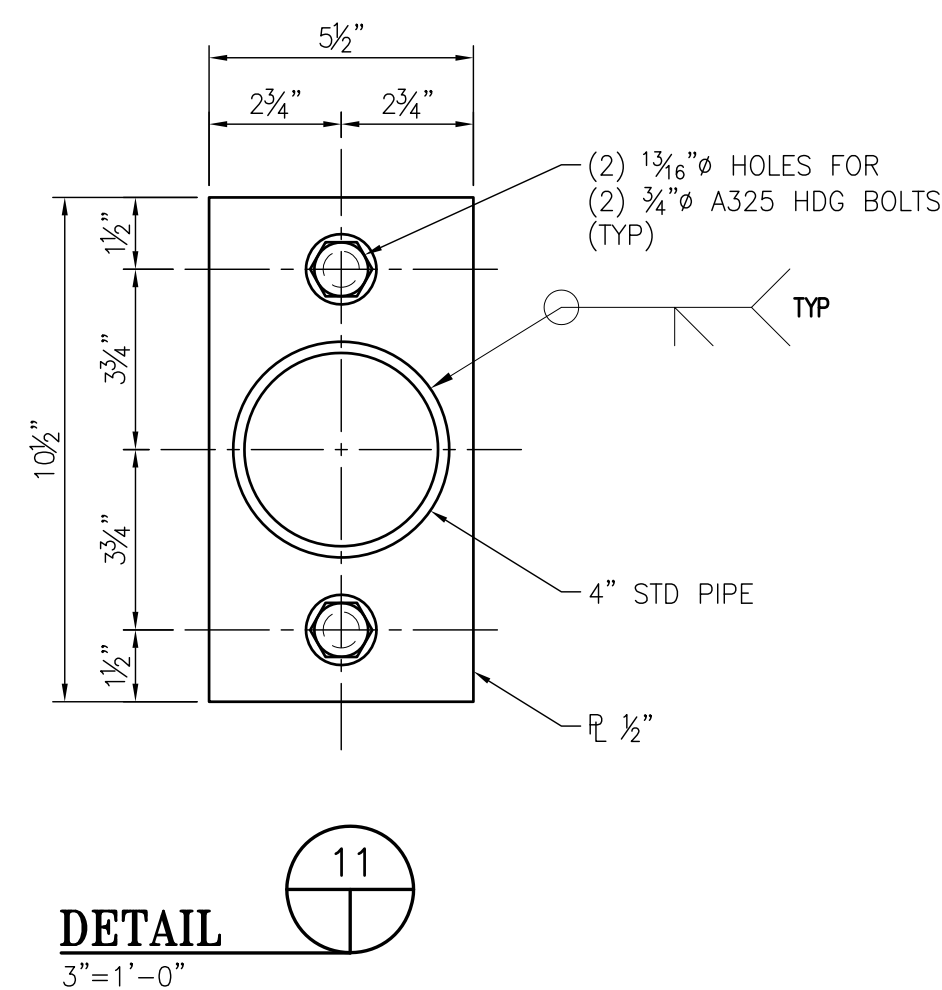
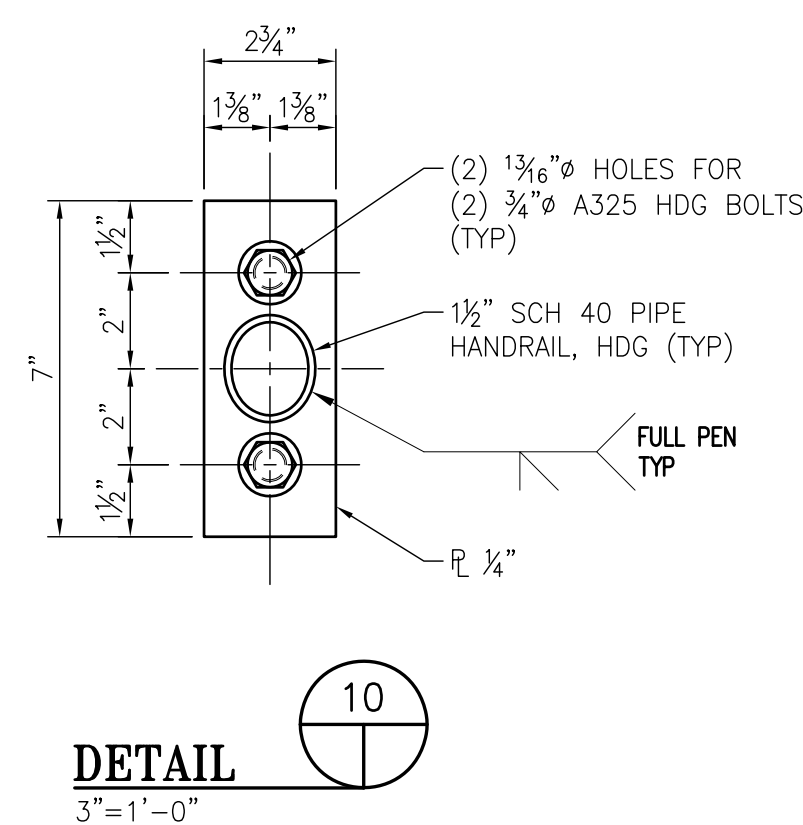
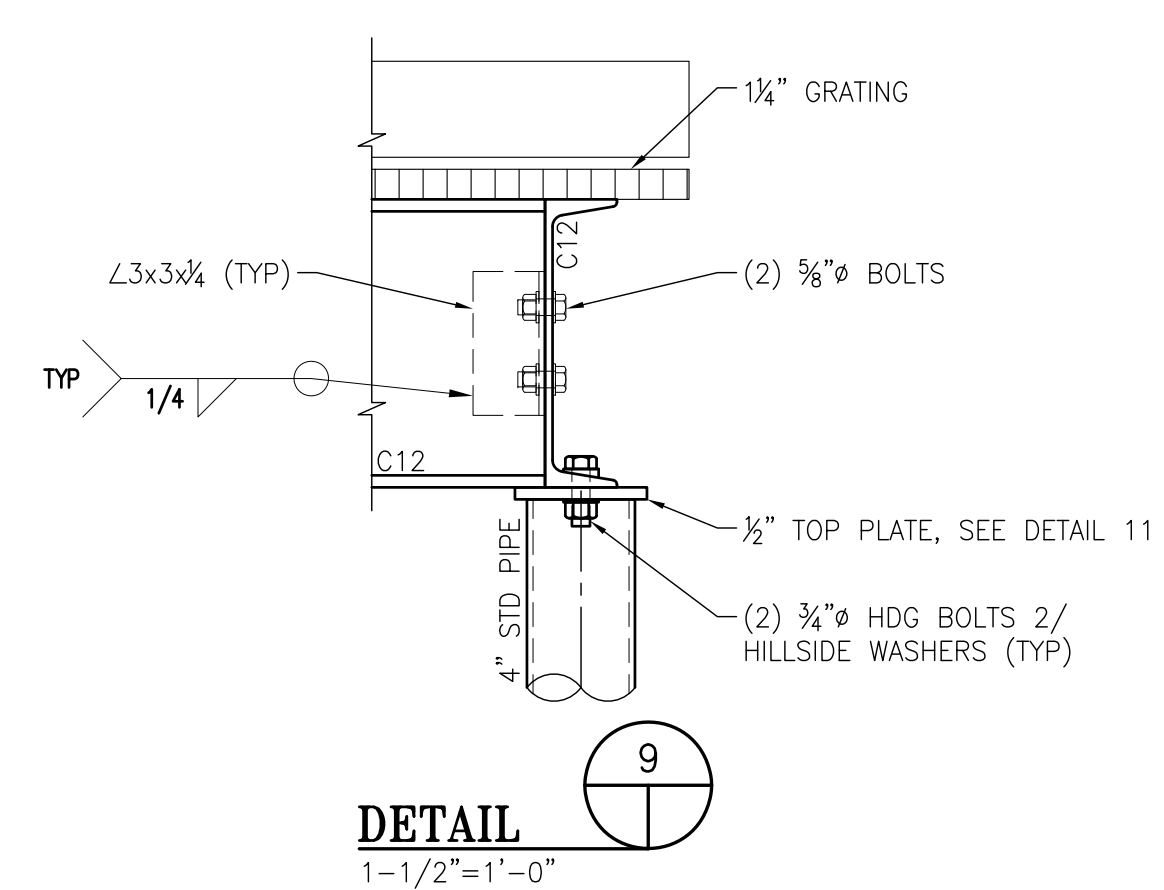
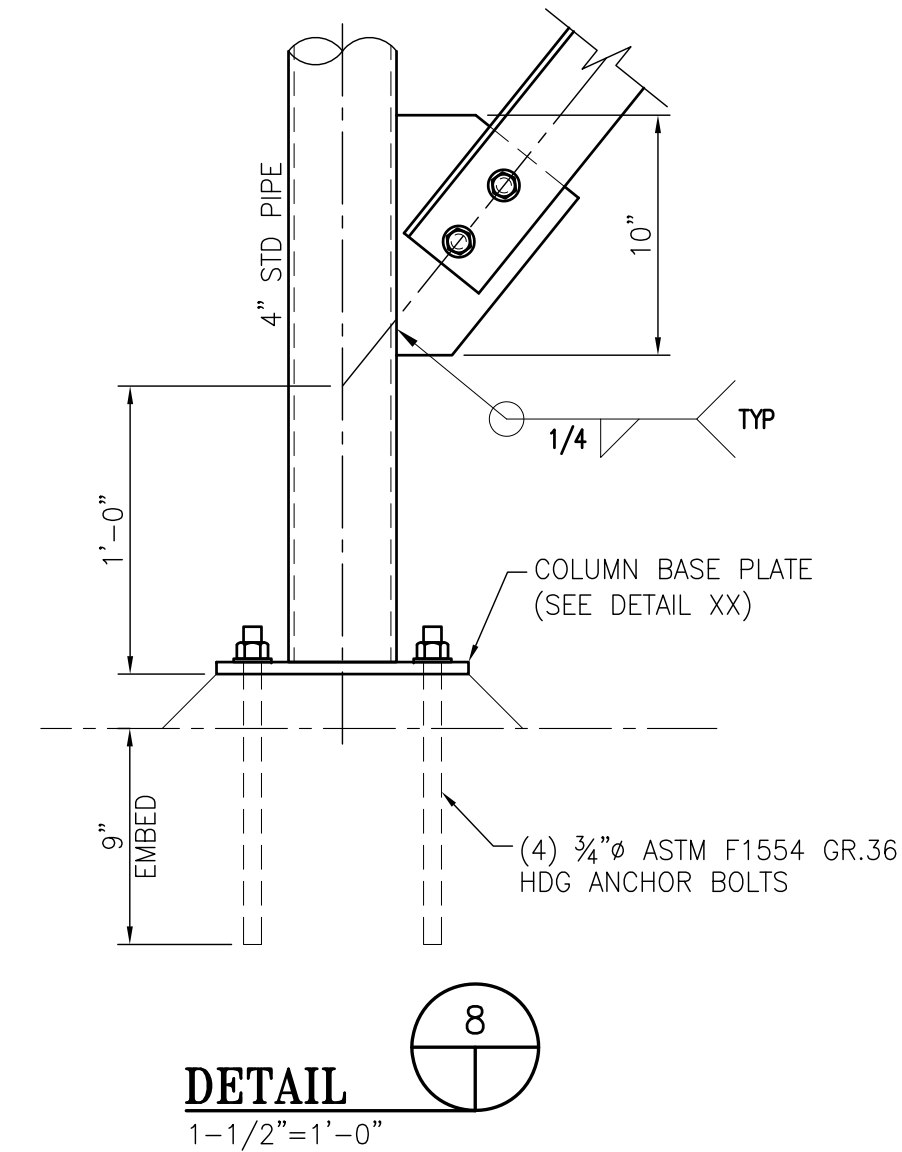
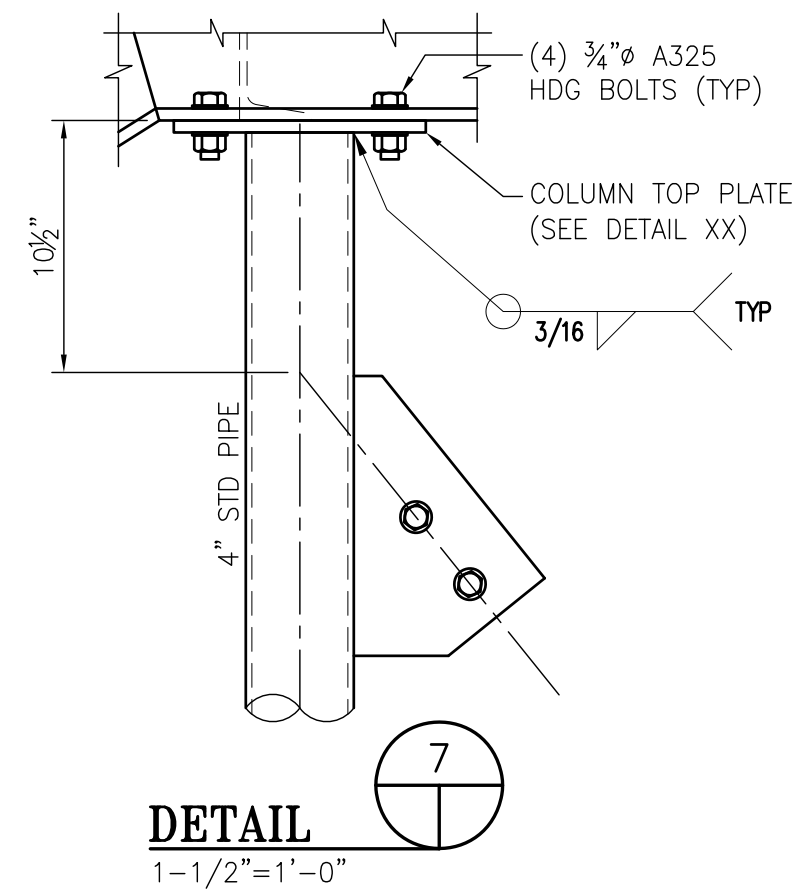
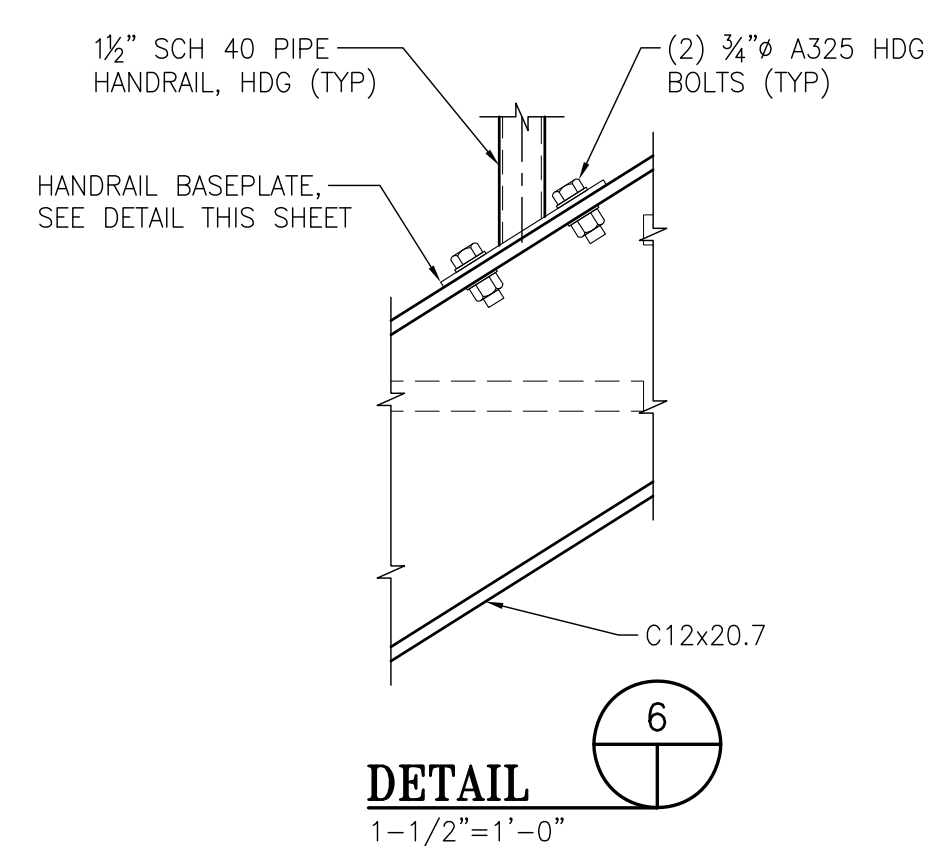
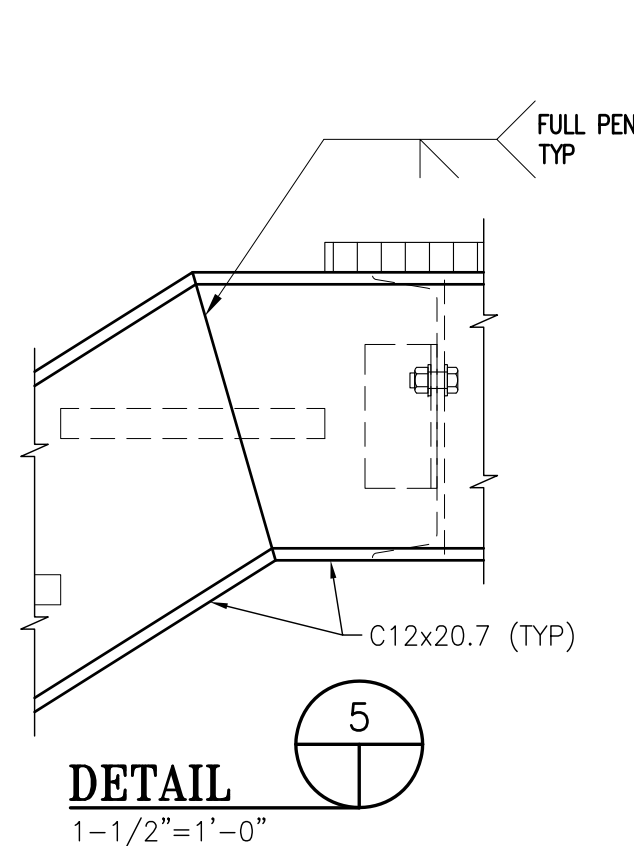
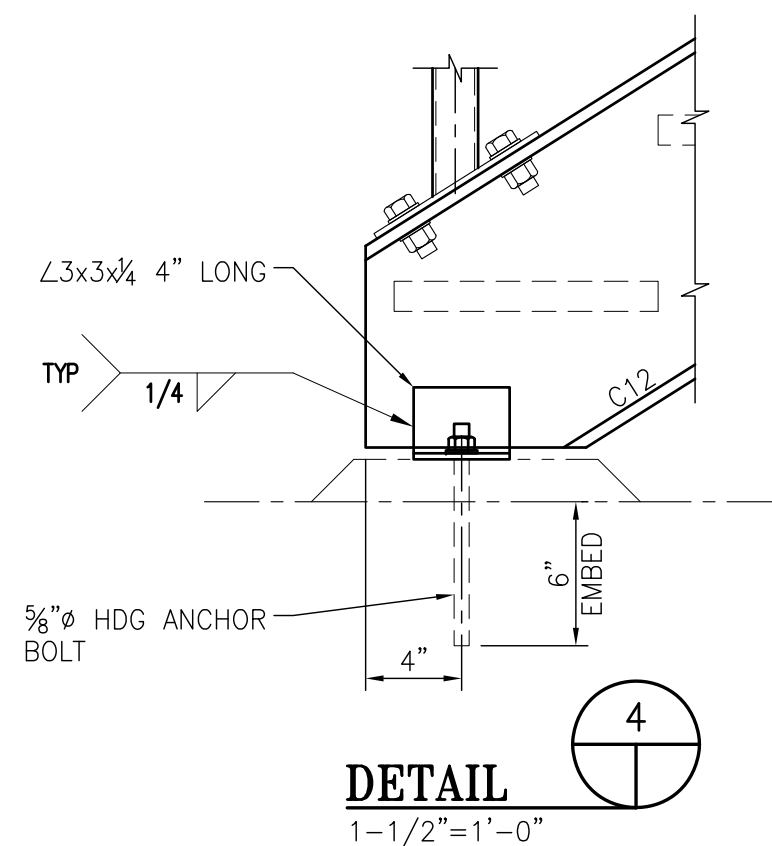
PROJECT NO: 4617


D/WG NO: S11

REV: C

NOTES							
		C	ISSUED FOR BID	JLH	JEJ	RSG	01-14-26
		B	100% DESIGN REVIEW	JLH	JEJ	RSG	09-09-25
		A	95% DESIGN REVIEW	JLH	JEJ	RSG	08-08-25
	REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE

The logo for APTIM PORT SERVICES, LLC. It features a stylized graphic on the left consisting of two thick, black, angular shapes that form a larger, abstract 'A' or a port structure. To the right of this graphic, the word 'APTIM' is written in a large, bold, black, sans-serif font. Below 'APTIM', the words 'PORT SERVICES, LLC' are written in a smaller, bold, black, sans-serif font.



NOTES									McDUFFIE TERMINAL IMPROVEMENTS						
									NEW FABRICATION SHOP PACKAGE						
									STAIR MISCELLANEOUS DETAILS						
									FOR: ALABAMA PORT AUTHORITY						
		C	ISSUED FOR BID		JLH	JEJ	RSG	01-14-26	THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.						
		B	100% DESIGN REVIEW		JLH	JEJ	RSG	09-09-25							
	A	95% DESIGN REVIEW		JLH	JEJ	RSG	08-08-25								
	REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE	DRAWN: JLH	CK'D: JEJ	APPD: RSG	DATE: 07-14-25	SCALE: AS NOTED	PROJECT NO: 4617	DWG NO: S12	REV: C

CONTROL SEQUENCE - SPLIT SYSTEM HEAT PUMPS

SPLIT-SYSTEM HEAT PUMP UNIT INCLUDES AN AIR HANDLER WITH TWO SPEED SUPPLY FAN, ELECTRIC STRIP HEAT, AND AN OUTSIDE AIR DAMPER. TWO SPEED FAN IS CONTROLLED BY THE EQUIPMENT MANUFACTURER FACTORY VFD TO PROVIDE FOR STAGED COOLING CONTROL.

CONTROLS INCLUDE SPACE TEMPERATURE CONTROL.

SUPPLY FAN CONTROL:

A. DURING OCCUPIED PERIODS: THE SUPPLY FAN SHALL RUN CONTINUOUSLY.

B. DURING UNOCCUPIED PERIODS: THE SUPPLY FAN IS NORMALLY OFF AND SHALL CYCLE ON CALL FOR HEATING OR COOLING IF SPACE IS UNOCCUPIED HIGHLOW TEMPERATURE LIMITS ARE MET. THE SYSTEM SHALL BE ENERGIZED IN THE OCCUPIED MODE UNTIL THE SPACE TEMPERATURE RISES/FALLS BY 5°F.

2. COMPRESSOR AND REVERSING VALVE CONTROL:

A. DURING OCCUPIED PERIODS: UNIT SHALL MAINTAIN SPACE TEMPERATURE SETPOINT AS DETERMINED BY LOCAL SPACE TEMPERATURE SENSORS (SUBJECT TO SOFTWARE LIMITS).

B. UPON A CALL FOR COOLING, THE COMPRESSOR(S) SHALL ENERGIZE AND REVERSING VALVE SHALL BE DE-ENERGIZED. LEAD COMPRESSOR OPERATION SHALL BE DISABLED IF DISCHARGE AIR TEMPERATURE FALLS BELOW 52°F WHILE UNIT IS OPERATING IN THE COOLING MODE.

C. UPON A CALL FOR HEATING, THE COMPRESSOR(S) AND REVERSING VALVE SHALL BE ENERGIZED SIMULTANEOUSLY.

D. DURING UNOCCUPIED PERIODS: IF SPACE UNOCCUPIED HIGHLOW TEMPERATURE LIMITS ARE MET, THE SYSTEM SHALL BE ENERGIZED UNTIL THE SPACE TEMPERATURE RISES/FALLS BY 5°F.

3. ELECTRIC HEAT CONTROL:

A. ELECTRIC STRIP HEAT SHALL ONLY BE ENABLED WHEN OUTSIDE AIR TEMPERATURE IS BELOW 40°F, UNLESS:

(1) DURING OCCUPIED PERIODS, THE SPACE TEMPERATURE FALLS 2°F BELOW SPACE SETPOINT FOR 15 MINUTES, ENERGIZE ELECTRIC STRIP HEAT, WHICH IS THE SECOND STAGE OF COOLING, UNTIL OCCUPIED SETPOINT IS REACHED.

(2) DURING UNOCCUPIED PERIODS: IF SPACE TEMPERATURE FALLS BELOW UNOCCUPIED LOW TEMPERATURE LIMIT AND HEAT PUMP IS RUNNING IN HEATING MODE FOR 20 MINUTES, WITHOUT SUCCESSFULLY RAISING THE SPACE TEMPERATURE BY 5°F, ENERGIZE THE ELECTRIC STRIP HEAT IN ADDITION TO THE HEAT PUMP UNTIL THE SPACE TEMPERATURE INCREASES BY 5°F ABOVE UNOCCUPIED SETPOINT.

4. OUTSIDE AIR DAMPER CONTROL:

A. DURING OCCUPIED PERIODS: DAMPER SHALL OPEN TO ITS MINIMUM POSITION (SET BY TAB).

(1) AS CO2 LEVELS INCREASE FROM MIN (350 PPM, A.D.) TO MAX (1000 PPM, A.D.), OUTSIDE AIR DAMPER SHALL MODULATE OPEN FROM MINIMUM TO MAXIMUM POSITION.

B. DURING UNOCCUPIED PERIODS: DAMPER SHALL BE CLOSED.

5. SAFETY SHUTDOWN CONTROL: THE UNITS SHALL RUN SUBJECT TO SHUTDOWN BY THE FOLLOWING SAFETIES:

A. INTERNAL SAFETIES (AIR COIL LOW TEMP, HIGH PRESSURE SWITCH, ETC.)

B. CONDENSATE PAN FLOAT SWITCH IN THE AUXILIARY DRAIN PAN.

C. SMOKE DETECTOR OR SIGNAL FROM THE CENTRALIZED FIRE ALARM SYSTEM THROUGH AN ADDRESSABLE RELAY.

CONTRACTOR SHALL PROVIDE A CENTRAL CONTROLLER OR CONTROL PANEL THAT ALLOWS THE CONNECTION OF ALL UNIT THERMOSTATS TO BE MONITORED REMOTELY BY THE FACILITY MAINTENANCE STAFF.

AIR DEVICE SCHEDULE

MARK	CD	CFM	BASIS OF DESIGN: TITUS TDC-AA									NOTES		
CFM	0-95	96-175	175-240	241-280	281-380	381-470	471-650	471-535	536-740	741-925		1	2	3
GRILLE FACE SIZE	6x6	9x9	9x9	12x12	12x12	12x12	15x15	18x18	18x18	18x18		4	5	
DUCT CONNECTION	6Ø	7Ø	8Ø	9Ø	10Ø	12Ø	14Ø	12Ø	14Ø	16Ø				

MARK	RG	CFM	BASIS OF DESIGN: TITUS 350FL											
CFM	0-110	111-220	221-350	351-525	526-730	731-970	971-1240	1241-1500	1501-1850	1851-2250		1	2	4
GRILLE FACE SIZE	6x6	8x8	10x10	12x12	14x14	16x16	18x18	20x20	22x22	24x24		5		
DUCT CONNECTION	6x6	8x8	10x10	12x12	14x14	16x16	18x18	20x20	22x22	24x24				

MARK	SW	CFM	BASIS OF DESIGN: TITUS 300FS											
CFM	0-150	151-220	221-300	301-340	341-400	401-440	441-520	521-600				2	4	5
GRILLE FACE SIZE	8x6	10x6	12x6	14x6	12x8	18x6	22x6	12x12						
DUCT CONNECTION	8x6	10x6	12x6	14x6	12x8	18x6	22x6	12x12						

PROVIDE AIR DEVICE WITH THE FOLLOWING OPTIONS:

1 REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES. PROVIDE AIR DEVICE WITH 24"x24" LAY-IN PANEL FOR GRILLES IN LAY-IN CEILING.

2 PROVIDE AIR DEVICE WITH INTEGRAL BALANCING DAMPER.

3 PROVIDE AS 4-WAY THROW UNLESS INDICATED OTHERWISE.

4 AIR DEVICE SHALL BE PAINTED OFF WHITE.

5 TRANSITION DUCT FROM SIZE INDICATED TO AIR DEVICE CONNECTION SIZE.

2021 IMC OUTDOOR AIR VENTILATION
REQUIREMENT CALCULATIONS

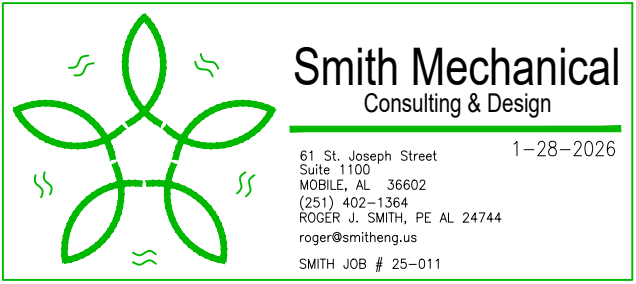
APPLICATION	OCCUPANCY (PERSONS AND/OR AREA)	X	CFM/PERSON REQUIREMENT	X	CFM/SF REQUIREMENT	=	TOTAL OUTSIDE AIR REQUIRED
OFFICE	8 PEOPLE 1,600 SF	X	5.0	X	0.06	=	136

HVAC GENERAL NOTES:

- INSTALL ALL WORK IN COMPLIANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION, THE 2021 INTERNATIONAL MECHANICAL CODE, AND THE 2013 ASHRAE 90.1 ENERGY CONSERVATION CODE.
- COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR PRIOR TO BEGINNING ANY WORK.
- INSTALL OUTDOOR UNITS ON 4" THICK CONCRETE PADS EXTENDING 6" IN ALL DIRECTIONS BEYOND FOOTPRINT OF UNIT. PLASTIC OR FIBERGLASS EQUIPMENT PADS SHALL NOT BE USED. SECURE UNITS TO CONCRETE PAD WITH A MINIMUM OF TWO "REDHEAD" TYPE ANCHORS.
- DUCT CONSTRUCTION SHALL BE PER THE LATEST REQUIREMENTS OF NFPA 90A AND 90B, SMACNA AND ASHRAE AND SHALL MEET OR EXCEED THEIR REQUIREMENTS FOR SUPPORT AND REINFORCEMENT.
- REFRIGERANT SUCTION LINES SHALL BE INSULATED WITH FLEXIBLE ELASTOMERIC INSULATION WITH A MINIMUM THICKNESS OF 0.5". ALL INSULATION INSTALLED AT BUILDING EXTERIOR SHALL BE PAINTED WITH TWO COATS OF WHITE UV PROTECTIVE PAINT. ADDITIONALLY PIPING INSULATION AT BUILDING EXTERIOR SHALL BE COVERED WITH CORRUGATED ALUMINUM.
- BRANCH SUPPLY AND RETURN DUCT RUNOUTS SHALL BE GALVANIZED SNAP-LOCK WITH ALL JOINTS AND SEAMS SEALED WITH MASTIC. TRAVERSE JOINTS SHALL BE CONNECTED WITH SHEET METAL SCREWS MINIMUM 6" ON CENTER. ALL GALVANIZED DUCT SHALL BE INSULATED WITH 2" THICK, 1 POUND DENSITY WRAP INSULATION. INSULATION TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
- FLEXIBLE DUCT TO SUPPLY GRILLES SHALL NOT EXCEED 8'-0". ROUTE EXTERNALLY INSULATED RIGID SNAP LOCK DUCT TO WITHIN 8'-0" OF GRILLE.
- EQUIPMENT PROVIDED AND INSTALLED ON THIS PROJECT SHALL MEET OR EXCEED THE MINIMUM EFFICIENCY REQUIREMENTS INDICATED IN THE SCHEDULE.
- INTAKE LOUVERS SHALL BE EQUAL TO RUSKIN ELF6375DXD, COLOR TO BE SELECTED BY THE ARCHITECT.
- DUCT CONSTRUCTION SHALL BE G-90 GALVANIZED SHEET METAL. DUCT SEALING SHALL BE CLASS "A", ALL JOINTS, SEAMS, AND PENETRATIONS SHALL BE BRUSHED WITH 2 COATS OF WATER BASED MASTIC. THE DUCT SEAL SHALL MEET OR EXCEED PRESSURE CLASS 2".
- ALL SHEET METAL DUCT SHALL BE EXTERNALLY INSULATED WITH MINIMUM R-8.0 DUCT WRAP WITH AN FSK JACKET. JOINTS AND SEAMS SHALL OVERLAP 2" AND SHALL BE STAPLED AT 6" ON CENTER. ALL INSULATION JACKET JOINTS AND SEAMS SHALL BE SEALED WITH PRESSURE SENSITIVE TAPE. INSULATION APPLIED TO DUCT DIMENSIONS GREATER THAN 24" SHALL BE SECURED ON THE BOTTOM OF THE DUCT WITH MECHANICAL FASTENERS AT 18" ON CENTER.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS IN WALLS, FOUNDATIONS, FLOORS, AND ROOFS. CONTRACTOR SHALL INSTALL LOUVERS PER MANUFACTURERS RECOMMENDATIONS AND DETAILS INDICATED ON THE ARCHITECTURAL PLANS.
- ALL OUTSIDE AIR INLETS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ANY EXHAUST AIR OUTLET OR PLUMBING VENT STACK. COORDINATE WITH THE PLUMBING DRAWINGS AND WITH THE PLUMBING AND GENERAL CONTRACTORS IN THE FIELD.
- THE MECHANICAL CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS AND BE RESPONSIBLE FOR ALL RELATED CLEARANCES IN THE FIELD. PROVIDE CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS PER NATIONAL ELECTRIC CODE REQUIREMENTS. DUCT SHALL NOT ROUTE OVER ELECTRICAL PANELS.
- OFFSET AND TRANSITION DUCT AS NECESSARY TO AVOID STRUCTURAL MEMBERS OR EQUIPMENT CONNECTION SIZES. PROVIDE FLEXIBLE DUCT CONNECTORS ON ALL DUCT CONNECTION TO MOTORIZED EQUIPMENT.
- PROVIDE EACH HVAC SYSTEM WITH A 7 DAY PROGRAMMABLE WI-FI THERMOSTAT WITH BATTERY BACKUP AND UNOCCUPIED HOURS SET BACK CAPABILITIES.

100% OUTSIDE AIR SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

MARK OAAHU / OAHP -	AIR DATA				COOLING CAPACITY						HOT GAS REHEAT		ELECTRIC REHEAT			FILTER		COMPRESSOR (RLA)	MINIUMUM EFFICIENCY EER	ELECTRICAL DATA										NOTES
	TOTAL (CFM)	OUTSIDE (CFM)	EXTERNAL STATIC PRESSURE (in of H2O)	MOTOR (HP)	EDB (F)	EWB (F)	LDB (F)	LWB (F)	AMBIENT (F)	TOTAL BTUH	EDB (F)	TOTAL BTUH	CONTROL STAGES	STRIP HEAT (KW)	LDB (F)	TYPE	MIN MERV			INDOOR			OUTDOOR			INDOOR		OUTDOOR		
																				VOLTS	Hz	PHASE	VOLTS	Hz	PHASE	MCA (AMPS)	MOCP (AMPS)	MCA (AMPS)	MOCP (AMPS)	
F1	1,500	1,500	1.0	1.0	95.0	77.0	59.0	49.9	95	120,000	60.0	51,000	N/A	N/A	N/A	2"	8	1 @ 10.3 1 @ 8.5	11.0	208	60	1	460	60	3	7.5	15	26.4	35	1, 2, 3
NOTES																														
1	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. SEE PLAN NOTES FOR FRAGRANCE DIFFUSER REQUIREMENTS.																													
2	PROVIDE AIR HANDLING UNIT WITH 1" THICK 1.5 LB DENSITY INSULATION AND FACTORY MOUNTED SINGLE POINT POWER DISCONNECT. TRAP CONDENSATE PER SPECIFIC MANUFACTURER'S RECOMMENDATIONS. PROVIDE UNIT WITH FACTORY AUTHORIZED START UP.																													
3	BASIS OF DESIGN: LG ARUM144 / ARND153DCR4 SERIES WITH HOT GAS REHEAT. ALTERNATES MUST BE SUBMITTED 2 WEEKS PRIOR TO BID TIME FOR APPROVAL.																													



CLIENT DWG NO:



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McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
HVAC SCHEDULES AND NOTES

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617

DWG NO: M100.1

REV: E

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

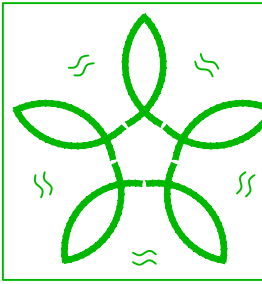
MARK AHU/ HPU	AIR DATA				COOLING CAPACITY					ELECTRIC REHEAT		FILTER		COMPRESSOR (RLA)	OUTDOOR FAN (FLA)	MINIUMUM HSPF/COP	MINIMUM SEER	ELECTRICAL DATA										NOTES
	TOTAL (CFM)	OUTSIDE (CFM)	EXTERNAL STATIC PRESSURE (in of H2O)	MOTOR (HP)	EDB (F)	EWB (F)	AMBIENT (F)	SENSIBLE BTUH	TOTAL BTUH	CONTROL STAGES	STRIP HEAT (KW)	TYPE	MIN MERV					OUTDOOR UNIT			INDOOR UNIT			OUTDOOR UNIT		INDOOR UNIT		
																		VOLTS	Hz	PHASE	VOLTS	Hz	PHASE	MCA (AMPS)	MOCP (AMPS)	MCA (AMPS)	MOCP (AMPS)	
1	1,900	140	0.5	3/4	80	67	95	43,140	57,080	1	11.3	1"	8	16.0	1.5	7.5 / 3.72	15.0	208	60	3	208	60	3	21.5	35	45.6	50	1, 2, 4, 6
2	1,900	140	0.5	3/4	80	67	95	43,140	57,080	1	11.3	1"	8	16.0	1.5	7.5 / 3.72	15.0	208	60	3	208	60	3	21.5	35	45.6	50	1, 2, 4, 6
3	3,800	0	0.5	1.5	80	67	95	86,900	119,500	2	18.4 + 13.8	1"	8	2@7.7	2@0.8	3.4 COP	11.0 EER	460	60	3	460	60	3	19.0	25	56.4	60	1, 2, 3, 6, 7
4	1,900	0	0.5	3/4	80	67	95	43,140	57,080	1	11.3	1"	8	16.0	1.5	7.5 / 3.72	15.0	208	60	3	208	60	3	21.5	35	45.6	50	1, 2, 4, 6
5	1,900	0	0.5	3/4	80	67	95	43,140	57,080	1	11.3	1"	8	16.0	1.5	7.5 / 3.72	15.0	208	60	3	208	60	3	21.5	35	45.6	50	1, 2, 4, 6
6	1,900	0	0.5	3/4	80	67	95	43,140	57,080	1	11.3	1"	8	16.0	1.5	7.5 / 3.72	15.0	208	60	3	208	60	3	21.5	35	45.6	50	1, 2, 4, 6
7	1,900	0	0.5	3/4	80	67	95	43,140	57,080	1	11.3	1"	8	16.0	1.5	7.5 / 3.72	15.0	208	60	3	208	60	3	21.5	35	45.6	50	1, 2, 4, 6
NOTES																												
1	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. PROVIDE ALL REQUIRED SIGNAGE FOR REFRIGERANT SAFETY NOTIFICATIONS. SEE PLAN NOTES FOR FRAGRANCE DIFFUSER REQUIREMENTS.																											
2	PROVIDE AIR HANDLING UNIT WITH 1" THICK INSULATION AND FACTORY MOUNTED SINGLE POINT POWER DISCONNECT TO SERVE BOTH THE FAN MOTOR AND STRIP HEAT (TWO WIRE).																											
3	PROVIDE AND INSTALL AIR HANDLING UNIT WITH RETURN DUCT MOUNTED SMOKE DETECTOR. SMOKE DETECTOR SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR. COORDINATE INSTALLATION BETWEEN MECHANICAL AND FIRE ALARM CONTRACTOR FOR PROPER PLACEMENT. SMOKE DETECTOR SHALL BE UL LISTED AND ADDRESSABLE.																											
4	BASIS OF DESIGN: CARRIER 27SCA/FG5A SERIES. PROVIDE WITH WIFI ENABLED THERMOSTAT.																											
5	PROVIDE AIR HANDLING UNIT WITH 1" THICK INSULATION AND FACTORY MOUNTED DUAL POINT POWER CONNECTION TO SERVE THE FAN MOTOR AND STRIP HEAT (FOUR WIRE DUAL CIRCUIT SINGLE PHASE).																											
6	PROVIDE AIR HANDLING UNIT WITH 1" THICK INSULATION AND FACTORY MOUNTED POWER CONNECTION DISCONNECT TO SERVE THE FAN MOTOR AND STRIP HEAT (3 PHASE).																											
7	BASIS OF DESIGN: CARRIER 38AUQ/40RFQ DUAL STAGE SERIES. PROVIDE WITH WIFI ENABLED THERMOSTAT.																											

FAN SCHEDULE

MARK FAN	FLOW AIR (CFM)	PRESSURE STATIC (in of H2O)	DRIVE TYPE	FAN TYPE	FAN SERVICE	INTERLOCK WITH	MAXIMUM RPM	MAXIMUM SONES	MOTOR		ELECTRICAL DATA			NOTES
									WATTS	HORSE POWER	VOLTS	Hz	PHASE	
EF-1	210	0.25	DIRECT	CEILING	RESTROOM	LIGHTS	1,200	3.0	130	N/A	120	60	1	1, 2, 8
EF-2	70	0.25	DIRECT	CEILING	RESTROOM	LIGHTS	1,200	3.0	130	N/A	120	60	1	1, 2, 3
EF-3	50	0.25	DIRECT	CEILING	SHOWER	WALL SWITCH	1,200	3.0	130	N/A	120	60	1	1, 2, 3
EF-4	1,100	0.35	DIRECT	SIDEWALL	PLASMA TABLE	WALL SWITCH	1,140	12.2	N/A	1/6	208	60	1	1, 4, 6
EF-5	9,500	0.35	DIRECT	SIDEWALL	FAB SHOP	WALL SWITCH	860	22.0	N/A	1-1/2	460	60	3	1, 4, 6
EF-6	800	0.5	DIRECT	INLINE	FAB SHOP SNORKEL	WALL SWITCH	1,000	12.0	N/A	1/3	208	60	1	1, 4, 6
CF-1 & -2	N/A	N/A	HVLS DIRECT	SUSPENDED	APPARATUS BAY	WALL MOUNTED SPEED CONTROLLER	200	N/A	N/A	1.0	460	60	3	1, 5
NOTES														
1	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.													
2	PROVIDE FAN WITH SOLID STATE SPEED CONTROLLER. CONTROLLER SHALL BE LOCATED ABOVE THE CEILING ADJACENT TO THE FAN.													
3	EXTEND RIGID SNAP LOCK EXHAUST DUCT TO DISCHARGE WALL LOUVER.													
4	PROVIDE WITH MOTOR SIDE GUARD, BACKDRAFT DAMPER, WEATHER HOOD, AND DISCONNECT. INTERLOCK WITH INTAKE LOUVER MOTORIZED DAMPER.													
5	HVAC CONTRACTOR IS RESPONSIBLE FOR PURCHASE AND INSTALLATION OF EQUIPMENT BAY HVLS CEILING FAN. COORDINATE INSTALLATION WITH SPECIFIC MANUFACTURER'S REQUIREMENTS. BASIS OF DESIGN I "BIG ASS FANS MODEL POWERFOIL D". FANS ARE 10"0" DIAMETER. ACCEPTABLE MANUFACTURERS ARE BIG ASS, HUNTER INDUSTRIAL, AND GREENHECK. COORDINATE ALL ELECTRICAL REQUIREMENTS AND INTERLOCKS WITH THE ELECTRICAL CONTRACTOR. FAN SHALL BE SUSPENDED 4'-0" BELOW THE CEILING SURFACE. PROVIDE A MINIMUM OF 2'-0" CLEARANCE ON THE SIDES OF THE FAN BLADES. PROVIDE WITH LATERAL SUPPORT AND AUXILIARY RESTRAINT SYSTEM.													
6	IN ORDER TO MANAGE CONDITIONS WITHIN THE FABRICATION SHOP, THIS EXHAUST FAN IS TO BE TURNED OFF WHEN WELDING ACTIVITIES ARE NOT ON GOING.													

DUCTLESS SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

MARK DSSHP / DSSAH-	AIR DATA		COOLING CAPACITY				HEATING CAPACITY		MINIMUM HSPF	MINIMUM COP	MINIMUM SEER	ELECTRICAL DATA					NOTES
	TOTAL (CFM)	OUTSIDE (CFM)	EDB (F)	EWB (F)	AMBIENT (F)	TOTAL BTUH	EDB (F)	TOTAL BTUH				VOLTS	Hz	PHASE	MCA (AMPS)	MOCP (AMPS)	
A	382	N/A	80.0	67.0	95	9,000	47.0	9,000	13.0	1.8	28.1	208	60	1	15.0	20	1, 2, 3
NOTES																	
1	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. COORDINATE ALL POWER REQUIREMENTS FOR INDOOR AND OUTDOOR UNITS WITH SPECIFIC MANUFACTURER'S REQUIREMENTS.																
2	PROVIDE INTEGRAL CONDENSATE PUMP. EXTEND INSULATED CONDENSATE DRAIN FROM UNIT TO BUILDING EXTERIOR FOR DISCHARGE , SPILL ON GRADE. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT. PROVIDE DOUBLE POLE MOTOR RATED SWITCH AT INDOOR UNIT FOR DISCONNECT.																
3	BASIS OF DESIGN CARRIER 30MARBQ09 / 40MAHBQ09 SERIES. INDOOR UNIT IS TO BE SURFACE MOUNTED ON THE WALL AS HIGH AS POSSIBLE. PROVIDE WITH INDOOR REMOTE WALL MOUNTED TYPE THERMOSTAT CARRIER MODEL KSACN0801AAA.																



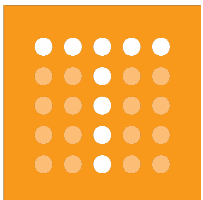
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Consulting & Design

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SMITH_J08 # 25-011

1-28-2026



thompson


ENGINEERING



ALABAMA
PORT AUTHORITY

PORT OF MOBILE

CLIENT DWG NO:



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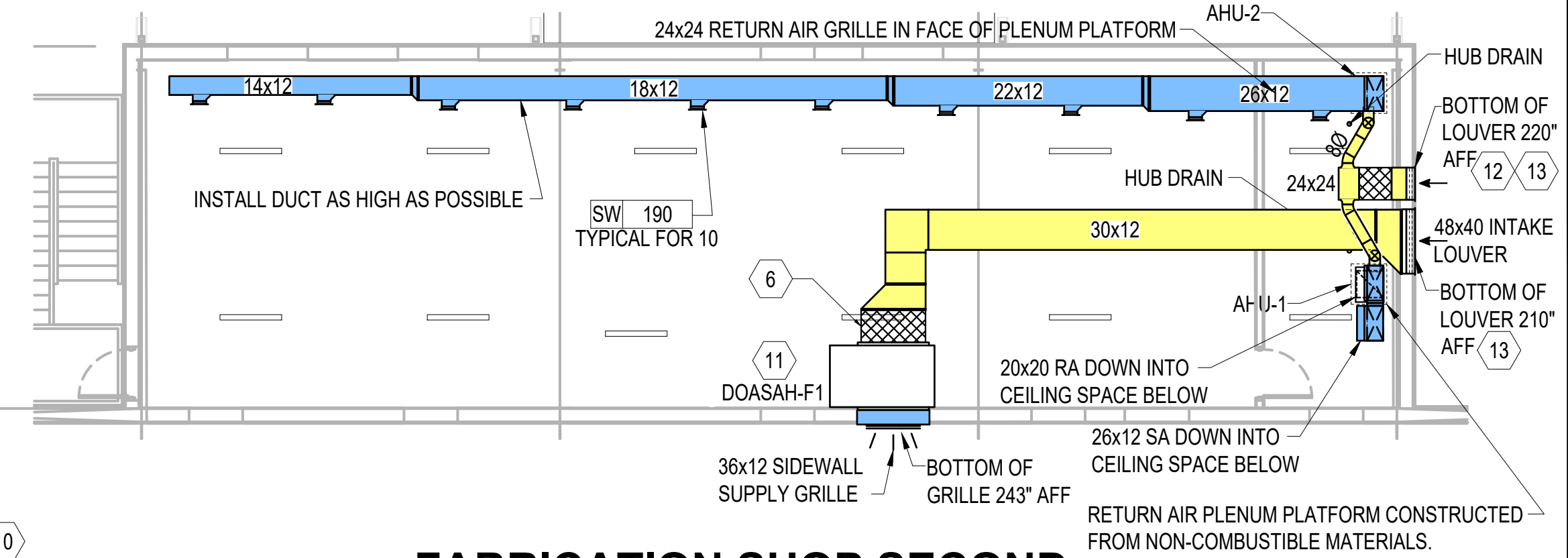
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PROJECT NO:4617

DWG NO: M100.2

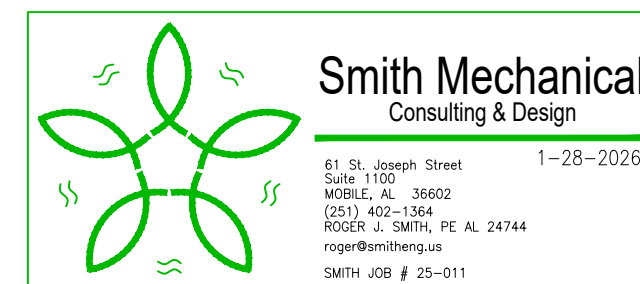
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Form: CMS-830-00-FM-02104 Aptim ANSI Dwg



- 1 ROUTE RECTANGULAR TRUNK DUCT BELOW THE CRANE RAIL TIGHT TO THE COLUMN LINE TO AVOID CONFLICTS.
- 2 12"Ø BRANCH DUCT WITH AN ELBOW POINTING DOWNWARD. TERMINATE DUCT DROP AT 9' AFF.
- 3 INSTALL UNIT ON A RETURN AIR PLENUM PLATFORM CONSTRUCTED FROM NON-COMBUSTIBLE MATERIALS.
- 4 36x20 RETURN GRILLE IN RETURN AIR PLENUM PLATFORM.
- 5 INSTALL OUTDOOR UNITS ON A RAISED PLATFORM. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR MORE INFORMATION. PLATFORM SHALL BE SIZED TO ACCOMMODATE THE PROVIDED OUTDOOR EQUIPMENT WITH 30" CLEARANCE BETWEEN EACH UNIT AND 24" CLEARANCE BETWEEN THE UNITS AND THE ADJACENT EDGE OF THE PLATFORM. PLATFORM SHALL BE 36" ABOVE BUILDING FINISHED FLOOR.
- 6 CONTRACTOR SHALL PROVIDE AND INSTALL A FACTORY FABRICATED FILTER BOX TO HOUSE TWO 24x24 CARBON FILTERS EQUAL TO CAMFIL OPKCS-242412. CONTRACTOR SHALL PROVIDE 4 SETS OF REPLACEMENT FILTERS (8 EACH) TO BE TURNED OVER TO THE OWNER.
- 7 8"Ø EXHAUST DUCT SNORKEL DROP WITH BALANCING DAMPER. BALANCE EACH DROP FOR 200 CFM. PROVIDE 30' LONG UNINSULATED FLEXIBLE DUCT WITH A 4" LONG SHEET METAL COLLAR AT THE END OF EACH FLEX DROP.
- 8 CONTROLLERS FOR HVLS FANS CF-1 & CF-2. INSTALL PER SPECIFIC MANUFACTURERS RECOMMENDATIONS.
- 9 INSTALL HVLS FANS AS HIGH AS POSSIBLE PER SPECIFIC MANUFACTURER'S RECOMMENDATIONS. COORDINATE INSTALLATION WITH OTHER TRADES AND ENSURE CLEARANCES TO TROLLEY CRANE IS MAINTAINED. FAN IS INSTALLED ABOVE TROLLEY CRANE.
- 10 INSTALL SHOP AIR HANDLING UNIT ON A 24" TALL STEEL RETURN AIR PLENUM OPEN FRAME.
- 11 SUSPEND AIR HANDLING UNIT FROM STRUCTURE ABOVE AS HIGH AS POSSIBLE.
- 12 24x24OUTSIDE AIR INTAKE LOUVER. PROVIDE AND INSTALL A FACTORY FABRICATED FILTER BOX TO HOUSE ONE 24X24 CARBON FILTER EQUAL TO CAMFIL OPKCS-242412. EXTEND 8"Ø BRANCH CONNECTION AS NECESSARY FOR CONNECTION TO UNIT RETURN DUCT/PLENUM. PROVIDE MOTORIZED DAMPER AND MANUAL VOLUME DAMPER IN EACH BRANCH CONNECTION. PROVIDE WITH FOUR EXTRA FILTERS TO BE TURNED OVER TO THE OWNER.
- 13 CONTRACTOR SHALL COORDINATE LOUVER OR FAN FRAMING SIZE WITH STRUCTURAL ENGINEER AND METAL BUILDING MANUFACTURER.

CONTRACTOR SHALL PROVIDE AND
INSTALL A MANUAL VOLUME DAMPER ON
EACH RETURN AIR BRANCH DUCT.



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

NOTES							
		E	ISSUED FOR BID	RS	RS	RS	01-14-21
		D	100% DESIGN REVIEW	DG	SM	SM	09-09-25
		C	95% DESIGN REVIEW	DG	SM	SM	08-08-25
		B	60% DESIGN REVIEW	DG	SM	SM	06-11-21
		A	30% DESIGN REVIEW	DG	SM	SM	04-11-21
	REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE



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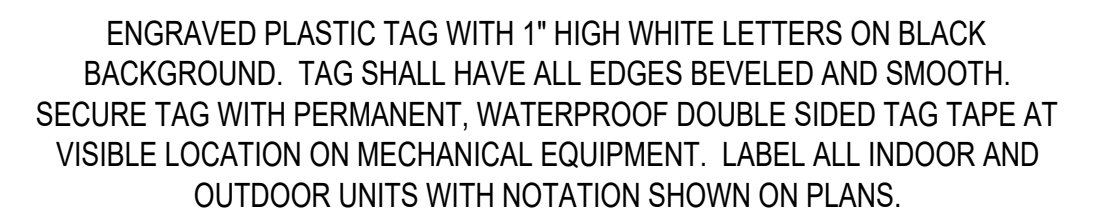
McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
HVAC PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617


DWG NO: M200.1

$$v: E$$



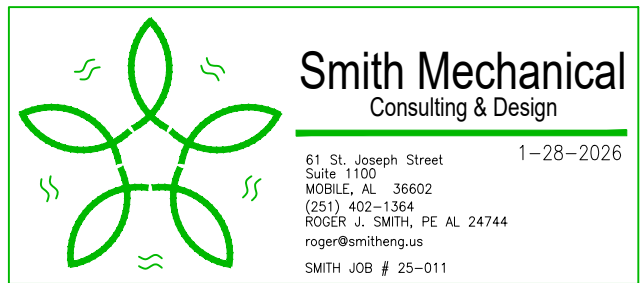
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 <div style="display: inline-block; vertical-align: middle;"> <h1 style="margin: 0;">APTIM</h1> <p style="margin: 0;">PORT SERVICES, LLC</p> </div>		<u>McDUFFIE TERMINAL IMPROVEMENTS</u> <u>NEW FABRICATION SHOP PACKAGE</u> <u>HVAC DETAILS</u>	
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DRAWN: RS	CK'D: RS	APPD: RS	DATE: 01-14-26 SCALE: AS NOTED
PROJECT NO: 4617		DWG NO: M300.2	REV: E

GENERAL PLUMBING NOTES

1. THE CONTRACTOR SHALL MAKE ALL WORK AS THAT IT PROCEEDS WITH A MINIMUM INTERFERENCE WITH OTHER TRADES.
 2. VERIFY EXACT PLUMBING FIXTURE ROUGH-IN AND FINAL HVAC EQUIPMENT REQUIREMENTS IN THE FIELD.
 3. DRAIN, WASTE, AND VENT PIPING AND FITTINGS SHALL BE SCHEDULE 40 POLY VINYL CHLORIDE (PVC) SYSTEM "ASTM D 2665". NO FOAM CORE SHALL BE USED.
 4. DOMESTIC WATER PIPING SHALL BE ASTM B 88, TYPE K, WITH ANSI B16.18 OR ANSI B16.22 SOLDER JOINT FITTINGS USING SILVER SOLDER AND FLUX CONTAINING NOT MORE THAN 0.2 PERCENT LEAD; OR WITH ANSI B16.26 FLARED JOINT FITTINGS. ASTM B 88, TYPE L MAY BE PROVIDED FOR ABOVEGROUND PIPING. SLEEVE SERVICE ENTRANCE AT SLAB. SEAL AROUND PIPING WATER PROOF.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO PLUMBING FIXTURES. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, FURNISHING AND INSTALLING ALL TRAPS, DRAINS, AND SUPPLIES WITH STOPS. FURNISH AND INSTALL PLUMBING FIXTURES INDICATED OR SPECIFIED, COMPLETE WITH ALL EQUIPMENT, FITTINGS, TRIM AND ACCESSORIES INDICATED OR SPECIFIED. EXPOSED WATER PIPING TO FIXTURES SHALL BE CHROME-PLATED BRASS, IPS. ADJUST WATER FLOW THROUGH ALL FIXTURES TO PROVIDE PROPER FLUSHING ACTION WITH THE LEAST AMOUNT OF WATER.
 6. COORDINATE ROUTING OF WATER SUPPLY, WASTE, AND VENT PIPING WITH OTHER TRADES.
 7. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS AND EXCAVATIONS.
 8. ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10 FEET FROM ANY OUTSIDE AIR INTAKE.
 9. FLOOR CLEANOUTS SHALL BE ADJUSTABLE HEIGHT POLISHED BRONZE, NICKEL BRONZE WITH "CO" CAST IN THE FLOOR PLATE.
 10. PROVIDE STOPS AND WATER HAMMER ARRESTORS IN ACCORDANCE WITH PDI AND ASSE 1010. AN ACCESS PANEL MUST BE INSTALLED IF WATER HAMMER ARRESTER IS LOCATED INSIDE A WALL OR ABOVE A HARD CEILING. COORDINATE OPENINGS WITH ARCHITECT.
 11. PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR METAL CONNECTIONS.
 12. INSULATE ALL WATER PIPING. DOMESTIC WATER PIPE NOT EXPOSED TO VIEW SHALL BE INSULATED WITH 1" THICK GLASS FIBER WITH FACTORY APPLIED UNIVERSAL JACKET. DENSITY SHALL BE 4 POUNDS PER CUBIC FOOT. FITTINGS SHALL BE INSULATED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. INSULATION VAPOR BARRIER SHALL BE LAPPED AND CEMENTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DOMESTIC WATER PIPE EXPOSED TO VIEW SHALL BE INSULATED SAME AS WHERE NOT EXPOSED TO VIEW, EXCEPT IT SHALL BE FINISHED WITH A SIZED UNIVERSAL JACKET SUITABLE FOR PAINTING. FITTING SHALL BE MADE OF "QUICKSET" CEMENT MOLDED TO FIT AND COVERED WITH 8 OZ. CANVAS AND FINISHED WITH WHITE VAPOR BARRIER CEMENT, AND HAVE PLASTIC MOLDED FITTING COVERS. INSULATE DOMESTIC WATER AND WASTE PIPING UNDER HANDICAP LAVATORIES AND SINKS USING "LAVGUARD2 E-Z SERIES" MOLDED VINYL PIPING COVERS. COVER ALL PIPING, FITTING, VALVES, AND TRAPS EXPOSED TO VIEW.
 13. ROUTE ALL PIPING AS TO CAUSE MINIMAL INTERFERENCE FOR MAINTENANCE OF ALL EQUIPMENT. UNLESS OTHERWISE NOTED, ALL DOMESTIC WATER PIPING SHALL BE ROUTED WITHIN CHASE SPACE. PIPING BELOW SLAB SHALL BE WITHOUT JOINTS AND TEES. PIPING PASSING THRU WALLS EXTENDING TO BOTTOM OF STRUCTURE SHALL BE SLEEVED AND SEALED. ALL DOMESTIC WATER PIPING ROUTED EXPOSED BELOW 6'-8" ABOVE FINISH FLOOR SHALL BE PROVIDED WITH A PVC JACKET TO PREVENT DAMAGE TO THE PIPE.
 14. PROVIDE SHUTOFF VALVE TO EACH SILLCOCK WITH VALVE IDENTIFICATION AS REQUIRED BY CODE.
 15. BEFORE FINAL ACCEPTANCE OF THE WORK, TEST EACH SYSTEM AS IN SERVICE TO DEMONSTRATE COMPLIANCE WITH 2021 INTERNATIONAL PLUMBING CODE AND LOCAL CODE REQUIREMENTS. ONCE TEST ARE IN COMPLIANCE WITH CONTRACT REQUIREMENTS DISINFECT WATER SYSTEM IN ACCORDANCE WITH AWWA C651.
 16. CONTRACTOR TO VERIFY ALL LOCATIONS OF ROOF PENETRATIONS WITH ARCHITECTURAL DRAWINGS.
 17. PIPE HANGERS AND SUPPORTS SHALL BE MSS SP-58 AND MSS SP-69, TYPE 1 OR 6, OF THE ADJUSTABLE TYPE, EXCEPT AS INDICATED OTHERWISE. ATTACHMENTS TO STEEL W OR S BEAMS SHALL BE WITH TYPE 21, 28, 29, OR 30 CLAMPS. ATTACHMENTS TO STEEL ANGLES AND CHANNELS (WITH WEB VERTICAL) SHALL BE WITH TYPE 20 CLAMP WITH A BEAM CLAMP CHANNEL ADAPTER. ATTACHMENTS TO STEEL CHANNEL (WITH WEB HORIZONTAL) SHALL BE WITH DRILLED HOLE ON CENTERLINE AND DOUBLE NUT AND WASHER. ATTACHMENTS TO CONCRETE SHALL BE WITH TYPE 18 INSERT OR A DRILLED HOLE WITH EXPANSION ANCHOR. HANGER RODS AND ATTACHMENTS SHALL BE FULL SIZE OF THE HANGER-THREADED DIAMETER. PROVIDE TYPE 40 INSULATION PROTECTION SHIELDS FOR INSULATED PIPING. PROVIDE STEEL SUPPORT RODS. PROVIDE NONMETALLIC, HAIR FELT, OR PLASTIC PIPING ISOLATORS BETWEEN COPPER TUBING AND THE HANGERS.
 18. LABEL ALL WATER SERVICE VALVES IN ACCORDANCE WITH APPLICABLE CODES
 19. COORDINATE EXACT FLOOR DRAIN LOCATIONS ARCHITECTURAL DRAWINGS. SLOPE ENTIRE ROOM TO DRAINS.
 20. ALL TRAP PRIMER VALVES NOT LOCATED IN NORMALLY UNOCCUPIED SPACES SHALL BE MOUNTED ABOVE THE CEILING AND PROVIDED WITH A LABEL ON THE CEILING GRID TO INDICATE THE TRAP PRIMER LOCATION. NO TRAP PRIMERS SHALL BE INSTALLED EXPOSED IN NORMALLY OCCUPIED SPACES.
 21. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL ASSOCIATED WASTE AND WATER TAP FEES ASSOCIATED WITH THIS PROJECT. ALL FEES ARE TO BE INCLUDED IN THE CONSTRUCTION COST.
 22. ALL WORK INSTALLED SHALL MEET THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION, THE 2021 INTERNATIONAL PLUMBING CODE, AND THE ASHRAE 90.1 ENERGY CONSERVATION CODE.



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FOR: ALABAMA PORT AUTHORITY

PROJECT NO:4617

DWG NO: P100.1

REV: E

NOTES

REFERENCE DRAWINGS

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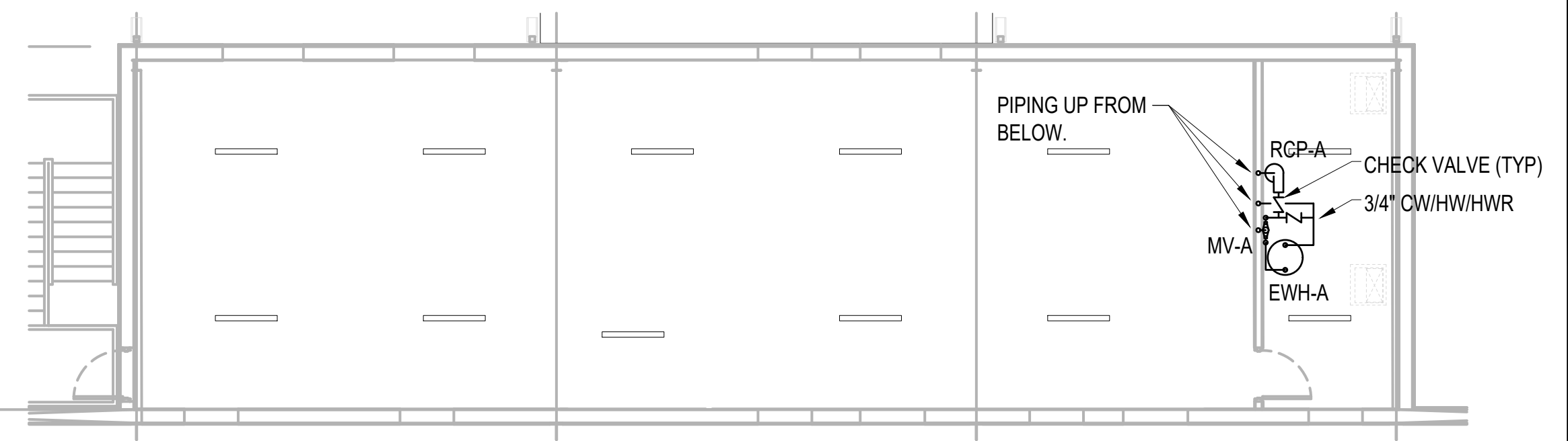
PLUMBING FIXTURE CONNECTION SCHEDULE							
MARK #	FIXTURE TYPE	CONNECTIONS				REMARKS	NOTES
		WASTE	VENT	CW	HW		
P-1	FLUSH VALVE WATER CLOSET	3"	1-1/2"	1"	-	VIT. CHINA, WHITE, 15" HIGH ELONGATED BOWL, FLOOR MOUNTED FLUSH VALVE TYPE, 1.28 GALLONS PER FLUSH, WITH OPEN FRONT SEAT WITHOUT COVER, AND SLOAN ROYAL FLUSH VALVE. EQUAL TO KOHLER. INSTALL PER ADA REQUIREMENTS. PROVIDE WITH FLUSH HANDLE ON THE APPROACH SIDE OF THE FIXTURE.	
P-1A	FLUSH VALVE WATER CLOSET (HC)	3"	1-1/2"	1"	-	VIT. CHINA, WHITE, 16-1/8" HIGH ELONGATED BOWL, FLOOR MOUNTED FLUSH VALVE TYPE, 1.28 GALLONS PER FLUSH, WITH OPEN FRONT SEAT WITHOUT COVER, AND SLOAN ROYAL FLUSH VALVE. EQUAL TO KOHLER. INSTALL PER ADA REQUIREMENTS. PROVIDE WITH FLUSH HANDLE ON THE APPROACH SIDE OF THE FIXTURE.	①
P-2	FLUSH VALVE URINAL (HC)	3"	1-1/2"	3/4"	-	VIT. CHINA, WALL HUNG WITH FLOOR MOUNTED CARRIER. PROVIDE WITH SLOAN ROYAL FLUSH VALVE 0.5 GPF VALVE. FIXTURE EQUAL TO KOHLER. INSTALL PER ADA REQUIREMENTS.	①
P-3	LAVATORY (HC)	1-1/2"	1-1/2"	1/2"	1/2"	VIT. CHINA, WHITE, WALL MOUNTED LAVATORY. PROVIDE WITH SINGLE LEVER ADA FAUCET, 17 GA. P-TRAP, GRID DRAIN, FLOOR MOUNTED CARRIER, FLEXIBLE SUPPLIES AND STOPS, AND ADA TRAP INSULATION EQUAL TO TRUBRO. PROVIDE WITH ASSE 1070 TEMPERATURE LIMITING VALVE SET FOR 105°F. BASIS OF DESIGN KOHLER CHESAPEAKE SERIES. INSTALL PER ADA REQUIREMENTS.	①
P-3A	WASH STATION	1-1/2"	1-1/2"	1/2"	1/2"	16 GAUGE STAINLESS STEEL WALL MOUNTED 48"x17 1/2" SINK WITH TWO DRILL HOLES FOR SENSOR FAUCETS. PROVIDE SINGLE HOLE WALL MOUNT 1 GPM FAUCET WITH POLISHED CHROME PLATED BRASS BODY, 4 1/8" RIGID GOOSNECK, 2.2 GPM VANDAL RESISTANT AERATOR, PLUG IN AC TRANSFORMER, MECHANICAL TEMPERATURE MIXING VALVE WITH CHECK VALVES, AND TWO FLEXIBLE STAINLESS STEEL SUPPLY HOSES WITH 3/8" COMPRESSION CONNECTIONS. PROVIDE WITH FLEXIBLE SUPPLIES AND STOPS. BASIS OF DESIGN REGENCY #600HSMSE1848 AND T&S BRASS EC-3101. INSTALL PER ADA REQUIREMENTS	①
P-4	SHOWER	2"	1-1/2"	1/2"	1/2"	60x36 SHOWER. PROVIDE WITH DELTA PRESSURE BALANCED SHOWER VALVE AND ADJUSTABLE SPRAY HEAD. COORDINATE INSTALLATION WITH OTHER TRADES.	
P-5	BREAK ROOM SINK	2"	1-1/2"	1/2"	1/2"	22x25x7" DEEP SINGLE COMPARTMENT STAINLESS STEEL SINK EQUAL TO ELKAY. PROVIDE WITH DELTA SINGLE LEVER FAUCET WITH PULL OF SPOUT. PROVIDE WITH FLEXIBLE SUPPLIES, STOPS, P-TRAP, AND BASKET STRAINER.	
P-6	ICE MAKER BOX	-	-	1/2"	-	RECESSED ICE MAKER BOX WITH WATTER HAMMER ARRESTOR AND 1/4 TURN STOP.	
P-7	SERVICE SINK	2"	2"	1/2"	1/2"	SERVICE SINK EQUAL TO FIAT FL-1 WITH WALL BRACKET AND LEG KIT. PROVIDE WITH DECK MOUNTED T&S BRASS B-1110-XS-WH4 FAUCET, P-TRAP, FLEXIBLE SUPPLIES, AND STOP. INSTALL PER SPECIFIC MANUFACTURER'S RECOMMENDATIONS.	
P-8	EMERGENCY SHOWER AND EYE WASH	3"	2"	3/4"	3/4"	EMERGENCY SHOWER AND EYE WASH EQUAL TO GUARDIAN MODEL G1950BC. PROVIDE WITH GB6040 MIXING VALVE. INSTALL EQUIPMENT PER SPECIFIC MANUFACTURER'S RECOMMENDATIONS.	
MV-A	MIXING VALVE	-	-	3/4"	3/4"	MIXING VALVE EQUAL TO SYMMONS. MINIMUM FLOW SHALL BE 0.5 GPM. DESIGN FLOW SHALL BE 5.5 GPM AT A 10 PSI PRESSURE DROP. INSTALL PER SPECIFIC MANUFACTURER'S RECOMMENDATIONS FOR A RECIRCULATED SYSTEM.	
FPHB	FREEZE PROOF HOSE BIBB	-	-	3/4"	-	FREEZE PROOF HOSE BIBB WITH VACUUM BREAKER. PROVIDE AS RECESSED BOX TYPE WITH HINGED COVER.	

① HANDICAPPED FIXTURES SHALL BE INSTALLED PER THE LATEST REQUIREMENTS OF ADA.

ELECTRIC WATER HEATER SCHEDULE									
MARK EWH	TANK CAPACITY (GALLONS)	MINIMUM EFFICIENCY	TEMPERATURE SETPOINT (F)	HEATING CAPACITY (KW)	VOLTS	Hz	PHASE	RECIRCULATED SYSTEM	NOTES
A	40	0.9	119	4.5	208	60	1	YES	1, 2, 3
NOTES									
1	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.								
2	PROVIDE WITH EXPANSION TANK, HEAT TRAPS ON CONNECTIONS, T&P RELIEF VALVE, AUXILIARY DRAIN PAN, ISOLATION VALVES WITH DI-ELECTRIC UNIONS ON HOT AND COLD CONNECTIONS. PROVIDE WATER HEATER AS LOW BOY TYPE.								
3	PROVIDE WITH MASTER MIXING VALVE AND RECIRCULATION PUMP. SEE DETAIL AND MANUFACTURERTS REQUIREMENTS FOR SPECIFIC PIPING REQUIREMENTS.								
4	BASIS OF DESIGN: BRADFORD WHITE MODEL NUMBER RE330S6. SUBMIT ALTERNATE MANUFACTURER'S FOR PRIOR APPROVAL.								

HOT WATER RECIRCULATION PUMP SCHEDULE									
MARK RCP	CONTROL WITH	CAPACITY (GPM)	TOTAL HEAD (FT)	PUMP CONSTRUCTION	MOTOR (HP)	VOLTS	Hz	PHASE	NOTES
A	AQUASTAT	2	15	STAINLESS STEEL	1/5	120	60	1	1, 2, 3, 4
NOTES									
1	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.								
2	PROVIDE WITH AQUASTAT WITH A TEMPERATURE SETPOINT OF 105°F.								
3	PROVIDE WITH 24 HOUR TIME CLOCK. PUMP SHALL OPERATE DURING OCCUPIED HOURS, ELSE IT SHALL BE OFF.								
4	PUMP SHALL BE SUITABLE FOR POTABLE WATER USE.								

NOTES								 APTIM PORT SERVICES, LLC	McDUFFIE TERMINAL IMPROVEMENTS					
	E	ISSUED FOR BID	RS	RS	RS	01-14-26			NEW FABRICATION SHOP PACKAGE					
	D	100% DESIGN REVIEW	DG	SM	SM	09-09-25			PLUMBING SCHEDULES AND NOTES					
	C	95% DESIGN REVIEW	DG	SM	SM	08-08-25	THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.		FOR: ALABAMA PORT AUTHORITY					
	B	60% DESIGN REVIEW	DG	SM	SM	06-11-25								
	A	30% DESIGN REVIEW	DG	SM	SM	04-11-25								
REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE	DRAWN: RS	CK'D:RS	APPD: RS	DATE:01-14-26	SCALE: AS NOTED	PROJECT NO:4617	DWG NO: P100.2	REV: E



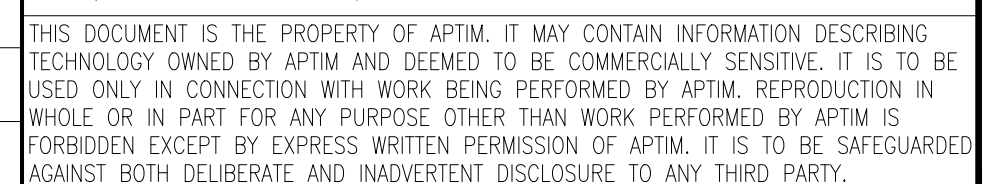
FLOOR PLUMBING

- 1 3/4" CW DOWN FOR CONNECTION TO FREEZE PROOF HOSE BIBB. PROVIDE ISOLATION SHUT OFF VALVE IN DROP 60" AFF.
- 2 3/4" COMPRESSED AIR BRANCH. PROVIDE WITH ISOLATION VALVE IN DROP. PROVIDE 1/2" BRANCH ON EACH SIDE OF COLUMN. TERMINATE WITH ISOLATION BALL VALVE AND QUICK CONNECT FITTING.
- 3 FIELD VERIFY EXACT LOCATION OF EXISTING 3" POTABLE WATER SERVICE IN THIS GENERAL AREA. CONNECT NEW TO EXISTING AS NECESSARY. SEE CIVIL PLANS FOR ADDITIONAL INFORMATION.


1 FABRICATION SHOP
 8' 0' 8' 16'
 SCALE: 1/8" = 1'-0"



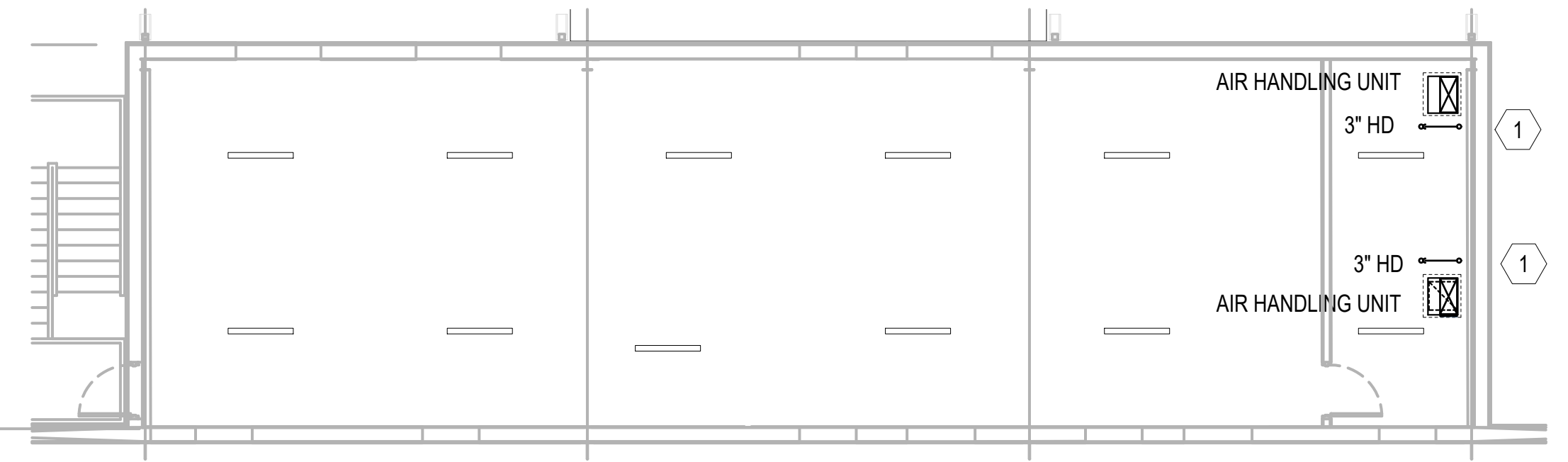
CLIENT DWG NO:



FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617	DWG NO: P200.1	REV: E
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		A	30% DESIGN REVIEW	DG	SM	SM	04-11-25
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FLOOR SANITARY V




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

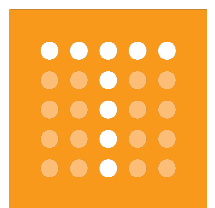
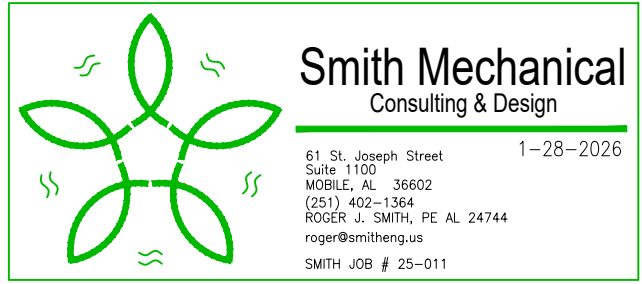
1 3" SANITARY WASTE DOWN INSIDE WALL BELOW. THIS WASTE PIPING SERVES AS CONDENSATE REMOVAL. THE FLOOR DRAIN TRAP AND ALL HORIZONTAL PIPING ABOVE THE FIRST FLOOR SLAB SHALL BE INSULATED WITH 1" SECTIONAL FIBERGLASS INSULATION WITH AN ASJ JACKET.

2 3" SANITARY WASTE DOWN FROM ABOVE. OFFSET AS NECESSARY INTO FIRST FLOOR WALL. THE FLOOR DRAIN TRAP AND ALL HORIZONTAL PIPING ABOVE THE FIRST FLOOR SLAB SHALL BE INSULATED WITH 1" SECTIONAL FIBERGLASS INSULATION WITH AN ASJ JACKET.

 N **1** **FABRICATION SHOP**
 8' 0' 8' 16'
 SCALE: 1/8" = 1'-0"



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thompson
ENGINEERING



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:


McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
PLUMBING RISER

FOR: ALABAMA PORT AUTHORITY

PROJECT NO:4617

DWG NO: P300.1

REV: E



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APPD: RS

DATE: 01-

-26 SCALE: AS NOTED

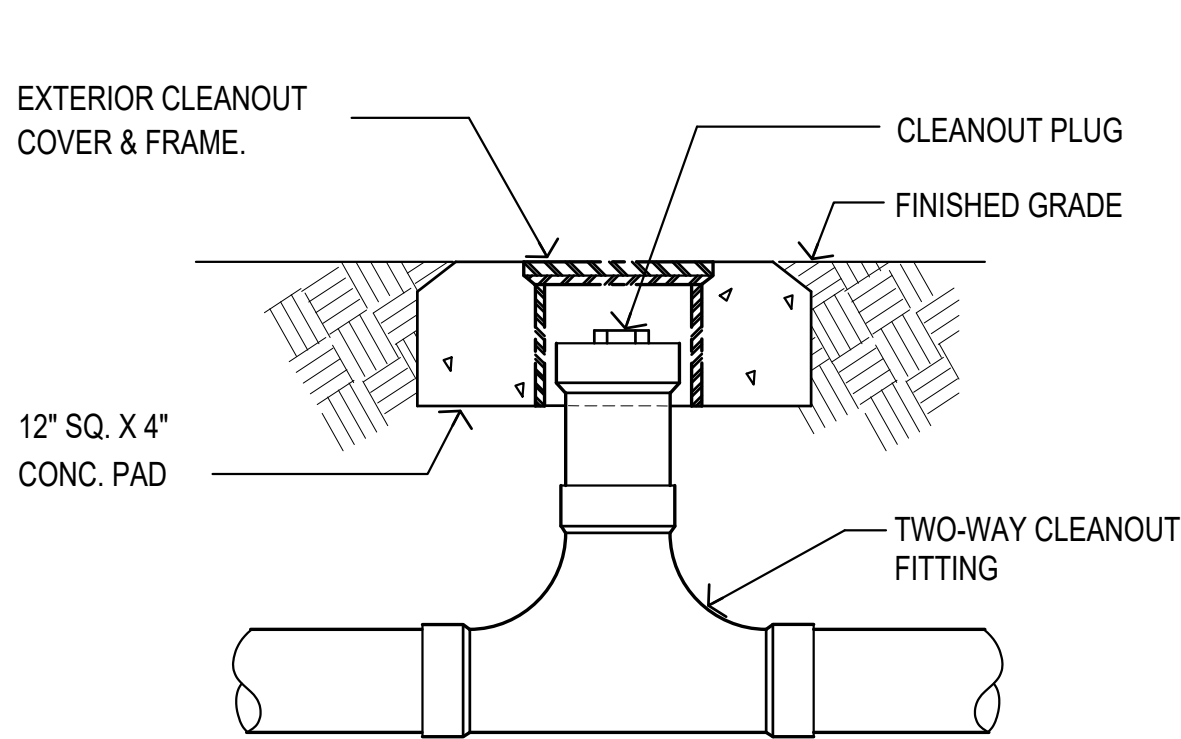
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DWG NO: P300.1

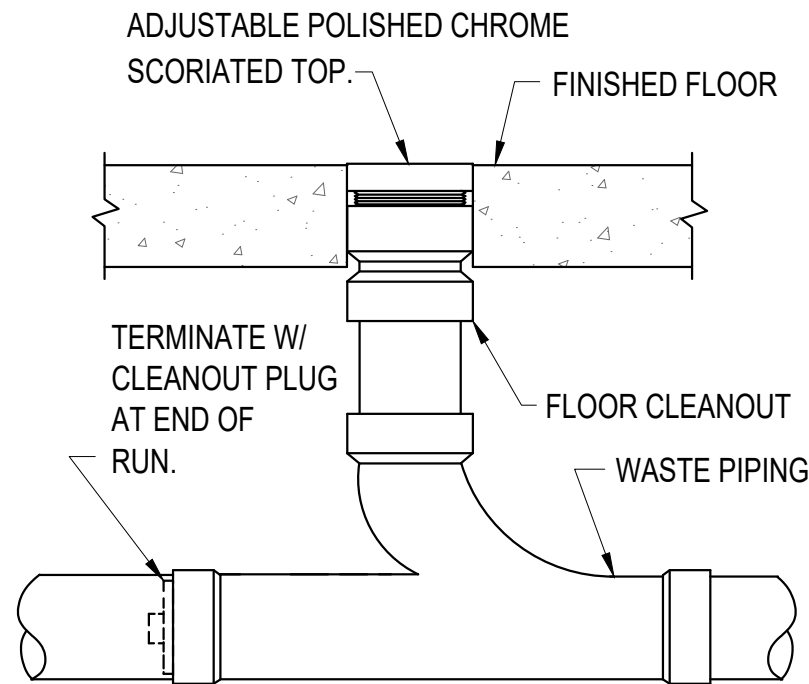
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NOTES							
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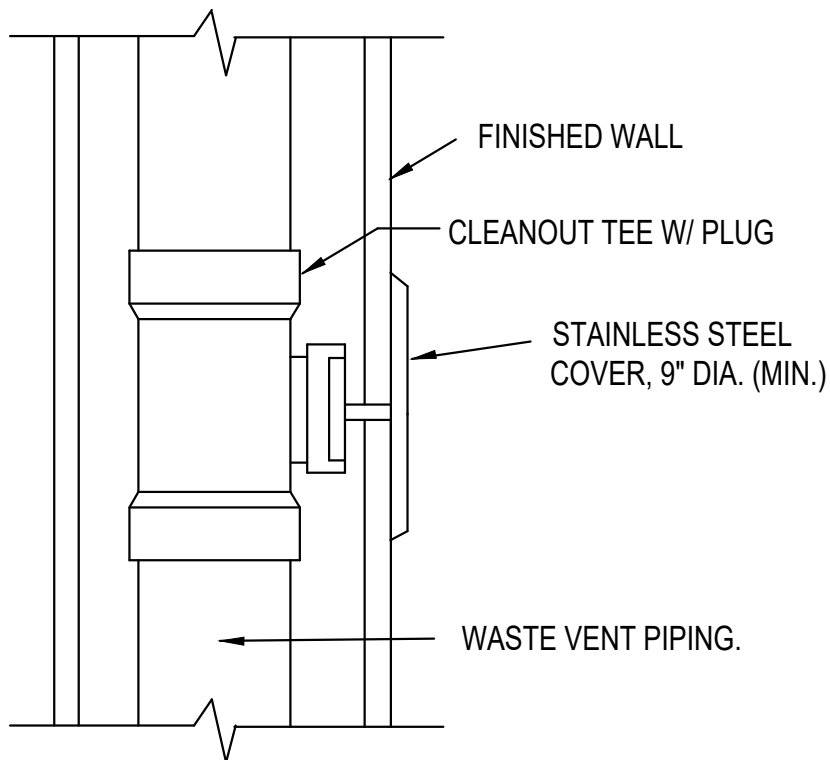




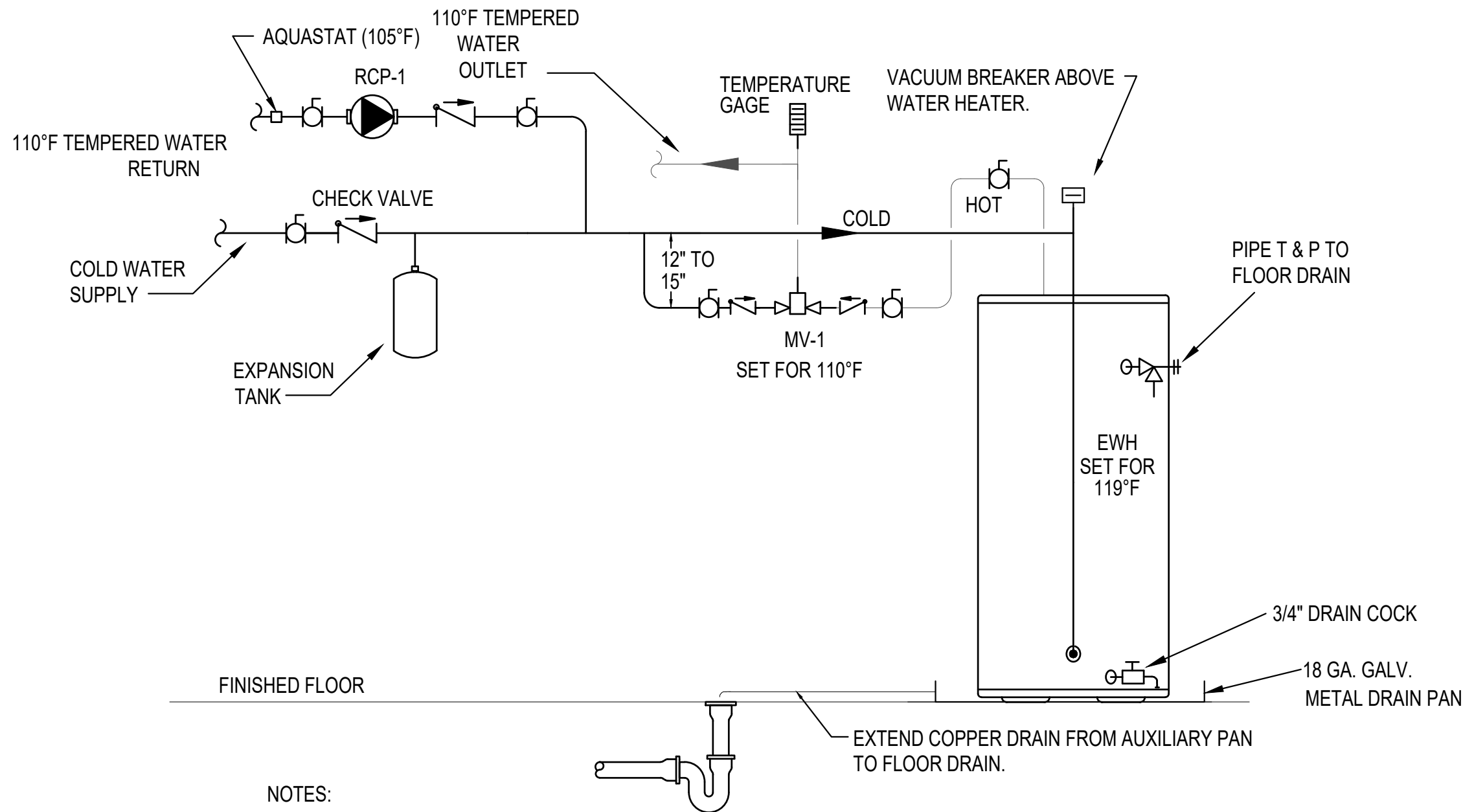
1 TWO-WAY CLEANOUT DETAIL
NOT TO SCALE



2 FLOOR CLEANOUT DETAIL
NOT TO SCALE

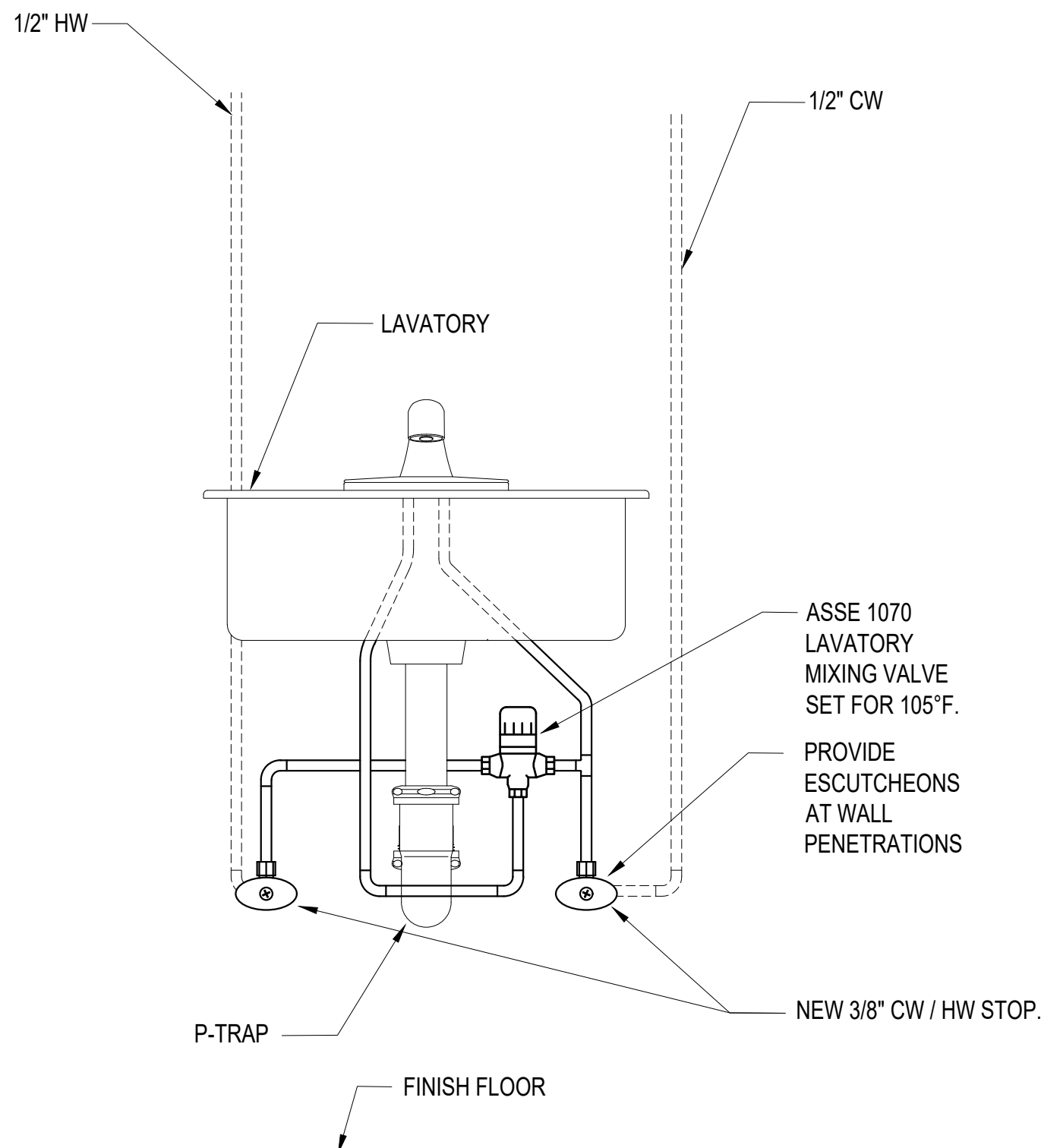


3 WALL CLEANOUT DETAIL
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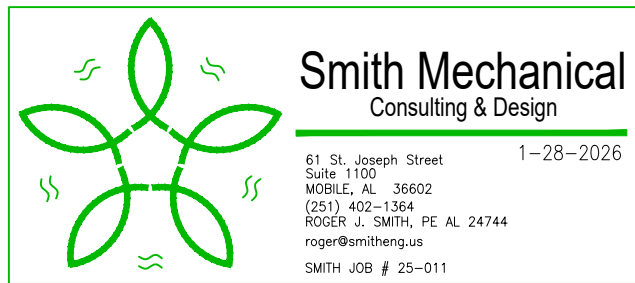


- NOTES:
1. PIPING DIAGRAM. SEE MANUFACTURERS RECOMMENDATIONS FOR ADDITIONAL INFORMATION.
 2. THE TEMPERATURE AND PRESSURE RELIEF VALVE SETTING SHALL NOT EXCEED PRESSURE RATING OF ANY ANY COMPONENT IN THE SYSTEM.
 3. SERVICE VALVES ARE SHOWN FOR SERVICING UNIT. HOWEVER, LOCAL CODES SHALL GOVERN THEIR USAGE.

4 WATER HEATER PIPING DIAGRAM
NOT TO SCALE



5 LAVATORY MIXING VALVE DETAIL
NOT TO SCALE



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:



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McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
PLUMBING DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617

DWG NO: P500.1

REV: E

REFERENCE DRAWINGS

NO.

REVISION

DRAWN

CK'D

APPD

DATE

RS

RS

RS

01-14-26

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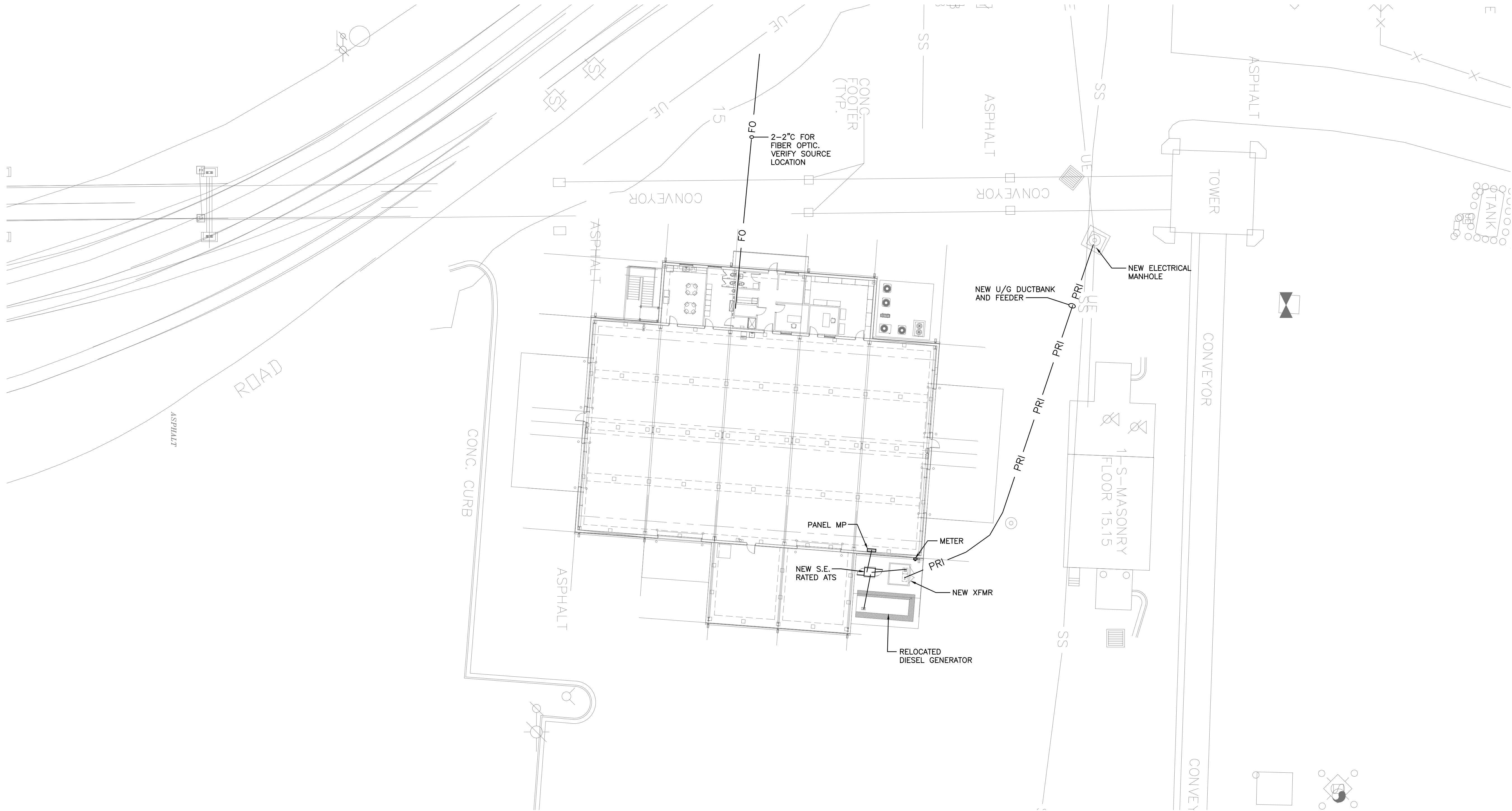
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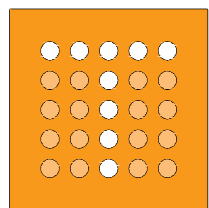
DATE: 01-14-26

SCALE: AS NOTED



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ES101

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



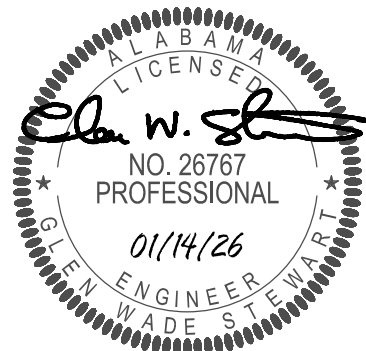
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NOTES



E

ISSUED FOR BID

GWS

GWS

GWS

01-14-26

D

100% DESIGN REVIEW

GWS

GWS

GWS

09-09-25

C

95% DESIGN REVIEW

GWS

GWS

GWS

08-08-25

B

60% DESIGN REVIEW

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06-11-25

A

30% DESIGN REVIEW

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04-11-25

REFERENCE DRAWINGS

NO.

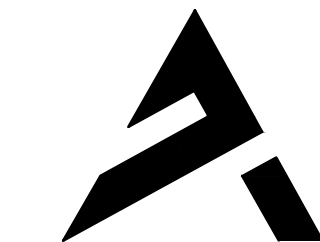
REVISION

DRAWN

CK'D

APPD

DATE



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APPD: GWS

DATE: TBD

SCALE: NONE





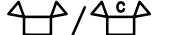










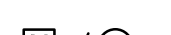


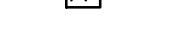

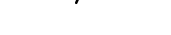
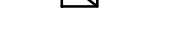
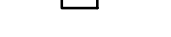








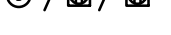
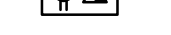






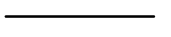
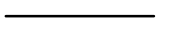
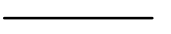
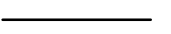
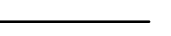
PROJECT NO: 4617

DWG NO: ES-101

REV: E

POWER & LIGHTING LEGEND

ALL ABBREVIATIONS SHOWN MAY NOT APPEAR IN DRAWINGS.

	FIXTURE STRIP, OVERHEAD / WALL MOUNTED.
	FIXTURE STRIP, OVERHEAD / WALL MOUNTED, EMERGENCY.
	FIXTURE, 2X2, 1X4, 2X4.
	FIXTURE, 2X2, 1X4, 2X4. W/ BATTERY BACKUP.
	EMERGENCY BATTERY PACK FIXTURE, WALL / CEILING MOUNTED.
	FIXTURE, SURFACE MTD. / RECESSED / WALL MOUNTED.
	FIXTURE, SURFACE MTD. / RECESSED / WALL MOUNTED. W/ BATTERY BACKUP.
	EXIT SIGN, CEILING/WALL MOUNTED W/BATTERY. PROVIDE ARROWS AS INDICATED
	SINGLE POLE TOGGLE SWITCH, 120/277V, 20A. 3'-10" AFF
	THREE-WAY TOGGLE SWITCH/FOUR-WAY TOGGLE SWITCH, 120/277V, 20A. 3'-10" AFF
	MOTOR RATED SWITCH, VERIFY REQUIREMENT AND # OF POLES W/ EQUIPMENT
	SINGLE POLE, THREE POSITION MOMENTARY CONTACT, 120/277 V, 20A. 3'-10" AFF
	DIMMER SWITCH. 120/277V, AMPERAGE AS REQUIRED. 3'-10" AFF
	KEYED SWITCH. 120/277V, AMPERAGE AS REQUIRED. 3'-10" AFF
	LOW VOLTAGE SWITCH. 3'-10" AFF
	OCCUPANCY SENSOR, 3'-10" AFF WALL/CEILING MTD.
	OCCUPANCY SENSOR, 3'-10" AFF DUAL RELAY FOR LIGHTING/EXHAUST FAN
	OCCUPANCY SENSOR, RELAY/POWER PACK, CONCEALED, ACCESSIBLE.
	PHOTOCELL
	PANEL, LIGHTING OR POWER AS SPECIFIED IN PANEL SCHEDULE.
	FUSED DISCONNECT SPECIFY AMP/POLE
	NON-FUSED DISCONNECT SPECIFY AMP/POLE
	MOTOR STARTER. NUMBER NEXT TO SYMBOL INDICATES SIZE, SEE SPECIFICATIONS FOR DESCRIPTION WHEN SHOWN WITHIN BOUNDARY OF EQUIPMENT PROVIDED AS PART OF THE EQUIPMENT.
	COMBINATION NONFUSIBLE DISCONNECT SWITCH/MAGNETIC MOTOR STARTER IN NEMA 1 ENCLOSURE, NUMBER NEXT TO SYMBOL INDICATES SIZE, SEE SPECIFICATIONS FOR DESCRIPTION
	EXHAUST FAN FURNISHED AND INSTALLED BY HVAC. REFER TO MECHANICAL DWG'S FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS.
	SINGLE RECEPTACLE 120/277V, AMPERAGE AS REQUIRED. 1'-6" AFF
	DUPLEX/QUAD RECEPTACLE OUTLET, 120/277V, 20A. 1'-6" AFF
	DUPLEX/QUAD RECEPTACLE OUTLET, 120/277V, 20A. 6" ABOVE COUNTER U.N.O.
	DUPLEX/QUAD RECEPTACLE OUTLET, ISOLATED GROUND, 120/277V, 20A. 1'-6"
	RECEPTACLE, FLOOR / CEILING FLUSH MOUNTED. 120/277V, 20A.
	TWO GANG FLOOR BOX WITH ONE RECEPT AND PROVISION FOR DUAL COMM CABLE WIREMOLD RFB2 MULTI-SERVICE RECESSED FLOOR BOX WITH BRASS COVERPLATE. FURNISH WITH ALL APPURTENANCES FOR COMPLETE SYS LESS COMM CABLING.
	2-POLE SINGLE RECEPTACLE 240V, AMPERAGE AS REQUIRED.
	TVSS RECEPTACLE DUPLEX RECEPTACLE , 120V, 20A. EQUAL TO PASS & SEYMOUR #5362WSP
	SPECIAL PURPOSE RECEPTACLE OUTLET, NEMA CONFIGURATION TO MATCH PLUG. ("GF"=GROUND FAULT PROTECTED, "WP"= (WR & GF TYPE) WEATHER PROOF & GFI PROTECTED) USE GF RATED BREAKER WHERE DEVICE IS NOT READILY ACCESSIBLE PER NEC
	JUNCTION BOX
	PRIMARY FEEDER CONDUIT, SEE RISER DIAGRAM FOR DETAILS
	SECONDARY FEEDER CONDUIT, SEE RISER DIAGRAM FOR DETAILS
	OVERHEAD ELECTRICAL, SEE RISER DIAGRAM FOR DETAILS
	UNDERGROUND ELECTRICAL FEEDER, SEE RISER DIAGRAM FOR DETAILS
	COMMUNICATION CONDUIT TO TRAILER
	UNDERGROUND FIBER OPTIC CONDUIT
	COMMUNICATIONS, TELEPHONE / COMPUTER BACKBOARD.
	HVAC CONTROLS, 54" AFF U.N.O. WITH 3/4"C TO ACCESSIBLE CEILING. TSTAT WIRING BY HVAC
	LIGHTING CONTACTOR. ELECTRICALLY HELD, 4-POLE MINIMUM WITH HOA SWITCH. COORDINATE ACTUAL NUMBER OF POLES WITH NUMBER OF EXTERIOR LIGHTING CIRCUITS. COIL VOLTAGE SHALL MATCH PHOTOCELL OUTPUT VOLTAGE.




















ELECTRICAL ABBREVIATIONS

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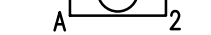
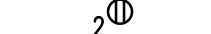


⊕	AT	MAX	MAXIMUM
&	AND	MCB	MAIN CIRCUIT BREAKER
A	AMPERE	MCC	MOTOR CONTROL CENTER
AB	ABOVE	MCL	1000 CIRCUULAR MILS
AC	ALTERNATING CURRENT	MECH	MECHANICAL
A/C	AIR CONDITIONING	MH	MANHOLE
AFC	ABOVE FINISH CEILING	MIN	MINIMUM
AFF	ABOVE FINISH FLOOR	MISC	MISCELLANEOUS
AFG	ABOVE FINISH GRADE	MLO	MAIN LUGS ONLY
AIC	AMPERE INTERRUPTING CAPACITY	MFR	MANUFACTURER
ALUM	ALUMINUM	MTD	MOUNTED
APPROX	APPROXIMATE(LY)	MTG	MOUNTING
ARCH	ARCHITECT(URAL)	MTS	MANUAL TRANSFER SWITCH
ATS	AUTOMATIC TRANSFER SWITCH	N	NEUTRAL
AUX	AUXILIARY	NA	NOT APPLICABLE
AWG	AMERICAN WIRE GAGE	N.C.	NORMALLY CLOSED
BB	BACKBOARD	NEC	NATIONAL ELECTRICAL CODE
BKR	BREAKER	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSO.
BLDG	BUILDING	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
C	CONDUIT	N.I.C.	NOT IN CONTRACT
CAB	CABINET	NL	NIGHT LIGHT
CCR	CIRCUIT	N.O.	NORMALLY OPEN
CLO	CEILING	NO. OR #	NUMBER
CON	CONTROL	OD	OUTSIDE DIAMETER
CT	CURRENT TRANSFORMER	P	POLE
CTV	CABLE TELEVISION	PF	POWER FACTOR
CU	COPPER	PH OR Ø	PHASE
CWP	COLD WATER PIPE	PMS	PAD MOUNTED SWITCH
DB	DIRECT BURIAL	PMT	PAD MOUNTED TRANSFORMER
DC	DIRECT CURRENT	PNL	PANEL
DEG	DEGREE	PRI	PRIMARY
DETD	DUAL ELEMENT TIME DELAY	PROVIDE	FURNISH AND INSTALL
DIRECT	DIRECTED	PT	POTENTIAL TRANSFORMER
DISC	DISCONNECT SWITCH	PVC	POLYVINYL CHLORIDE
DN	DOWN	REF	REFERENCE
DPSL	GARBAGE DISPOSAL	REQD	REQUIRED
DPST	DOUBLE POLE - SINGLE THROW	R	RATED LOAD AMPERES
DPDT	DOUBLE POLE - DOUBLE THROW	RM	ROOM
DITXMR	DRY TYPE TRANSFORMER	RNC	RIGID NONMETALLIC CONDUIT
DW	DISHWASHER	RNG	ELECTRICAL RANGE
EA	EACH	REF	REFERERATOR
EXH	EXHAUST	RT	RAIN TIGHT
EM	EMERGENCY	SCCR	SHORT CIRCUIT CURRENT RATING
EMT	ELECTRICAL METALLIC TUBING	SCH	SCHEDULE
EP	EXPLOSION PROOF	SD	SOFT DRAWN
EQUIP	EQUIPMENT	SE	SERVICE ENTRANCE
ER	EXISTING, REMOVE.	SEC	SECONDARY
EWG	ELECTRIC WATER COOLER	SH	SHEET
EX	EXISTING, REPLACE WITH NEW	SI	INTERNATIONAL SYSTEM OF UNITS
F	FUSE	SLO	SINGLE LINE DIAGRAM
f	FLUSH MTG	SMR	SURFACE METALLIC RACEWAY
FA	FIRE ALARM	SN	SOLID NEUTRAL
FIN	FINISHED	SPECS	SPECIFICATIONS
FLR	FLOOR	SPDT	SINGLE POLE - DOUBLE THROW
FLA	FULL LOAD AMPERES	SPST	SINGLE POLE - SINGLE THROW
FMC	FLEXIBLE METAL CONDUIT	STS	STATIC TRANSFER SWITCH
GA	GAUGE	SW	SWITCH
GALV	GALVANIZED	SW BD	SWITCH BOARD
GF	GROUND FAULT INTERRUPTER	SW GR	SWITCHGEAR
GRD	GALVANIZED RIGID METAL CONDUIT	TELE	TERMINAL BACKBOARD
HD	HEAVY DUTY	TEMP	TEMPERATURE
HH	HANDHOLE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSORS
HP	HORSEPOWER	TYP	TYPICAL
HP	HIGH VOLTAGE	UL	UNDERWRITER'S LABORATORY
HV	HEATING/VENTILATION/AIR COND.	V	VOLTAGE
HZ	HERTZ (CYCLES PER SECOND)	VAC	VOLTS ALTERNATING CURRENT
ID	INSIDE DIAMETER	VDC	VOLTS DIRECT CURRENT
IG	ISOLATED GROUND	VENT	VENTILATION
IMC	INTERMEDIATE METAL CONDUIT	W	WIRE
J-BOX	JUNCTION BOX	W/	WITH
k	KILO (1000)	WP	WEATHERPROOF
KCMIL	KILO CIRCULAR MILS	WT	WATERTIGHT
KV	KILO VOLTS	Z	ZONE
KVA	KILO VOLTS - AMPERES	"	FEET
KW	KILO WATTS	"	INCHES
LFC	LIQUIDTIGHT FLEXIBLE CONDUIT		
LGT	LIGHTING		
LV	LOW VOLTAGE		

AUXILIARY LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN DRAWINGS.

	FIRE ALARM MANUAL PULL STATION, 3'-10" AFF
	FIRE ALARM STROBE / HORN-STROBE, 7'-6" AFF
	FIRE ALARM STROBE / HORN-STROBE. CEILING MOUNTED.
	FIRE ALARM SMOKE DETECTOR, CEILING MOUNTED.
	FIRE ALARM DUCT-MOUNTED SMOKE DETECTOR W/ SAMPLING TUBE.
	FIRE ALARM REMOTE TEST STATION, 3'-10" AFF
	FIRE ALARM HEAT DETECTOR. CEILING MOUNTED.
	FIRE ALARM AUXILIARY RELAY.
	MONITOR MODULE FOR AUXILIARY CONTROL
	FIRE ALARM FIRE SPRINKLER SYSTEM VALVE TAMPER SWITCH
	FIRE ALARM FIRE SPRINKLER SYSTEM FLOW SWITCH
	FIRE ALARM CONTROL PANEL.
	FIRE ALARM REMOTE PANEL.
	TELEPHONE/DATA OUTLET AND COVER PLATE. 18" AFF WITH 3/4" C. AAC/UNO
	WALL MOUNTED TELEPHONE, MOUNT 60" AFF/UNO
	COMBINATION DATA/TELEPHONE OUTLET AND COVER PLATE. 18" ACC WITH 3/4"C TO ACC/UNO
	ACCESS CONTROL ROUGH-IN, CARD READER
	ACCESS CONTROL ROUGH-IN, DOOR LOCK
	PUBLIC ADDRESS SYSTEM, SPEAKER (BY OTHERS)

ELECTRICAL DESIGNATIONS

	FIXTURE NOTE	TYPE 'A' FIXTURE (SEE FIXTURE SCHEDULE). CIRCUIT NO. 2 (TYP)
	FIXTURE NOTE	TYPE 'A' FIXTURE (SEE FIXTURE SCHEDULE). CIRCUIT NO. 2 (TYP)
	RECEPT NOTE	WALL OUTLET WITH RECEPTACLE NOTED, CONNECT TO CIRCUIT NO. 2 (TYP)
	HOME RUN	HOMERUN (TYP) TO PANEL 'PPA', CONNECT TO CIRCUIT NO. 5 EX: 1#12 (PH), 1#12 (N) & 1#12 GND.
	MULTI-CONDUCTOR RUN	MULTI-CONDUCTED RUN (TYP) EX: 3#12 (PH), 1#12 (N) & 1#12 GND
	WIRE DESIGNATION	TIC INDICATES NUMBER OF CONDUCTORS, EX: 3#12 (PH), 1#12 (N) & 1#12 GND

NOTES:

- "NL" DESIGNATION REQUIRES FIXTURE TO BE CONFIGURED FOR OPERATION AT ALL TIMES.
- ALL CIRCUITS SHALL CONTAIN A GREEN EQUIPMENT GROUNDING CONDUCTOR.
- EQUIPMENT GROUND CONDUCTOR SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED:
#12 AWG CIRCUIT - #12 GND
#10 AWG CIRCUIT - #10 GND
8 AWG CIRCUIT - #10 GND
- UNLESS OTHERWISE INDICATED, CONDUIT SIZE SHALL BE 3/4" MIN. AND SHALL NOT EXCEED A FILL OF 40% MAXIMUM, SEE NEC.

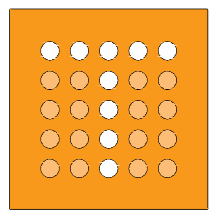


# OF CIRCUIT CONDUCTORS	_____	# _____ & 1# _____ GND - _____ C _____	SIZE OF CONDUIT
SIZE OF CIRCUIT CONDUCTORS "AWG"	_____	_____	SIZE OF GROUNDING CONDUCTOR "AWG"

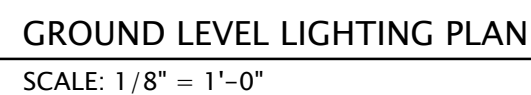
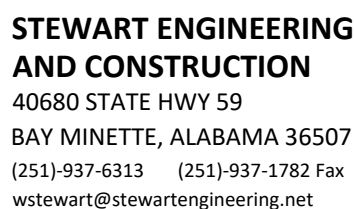
ELECTRICAL NOTES

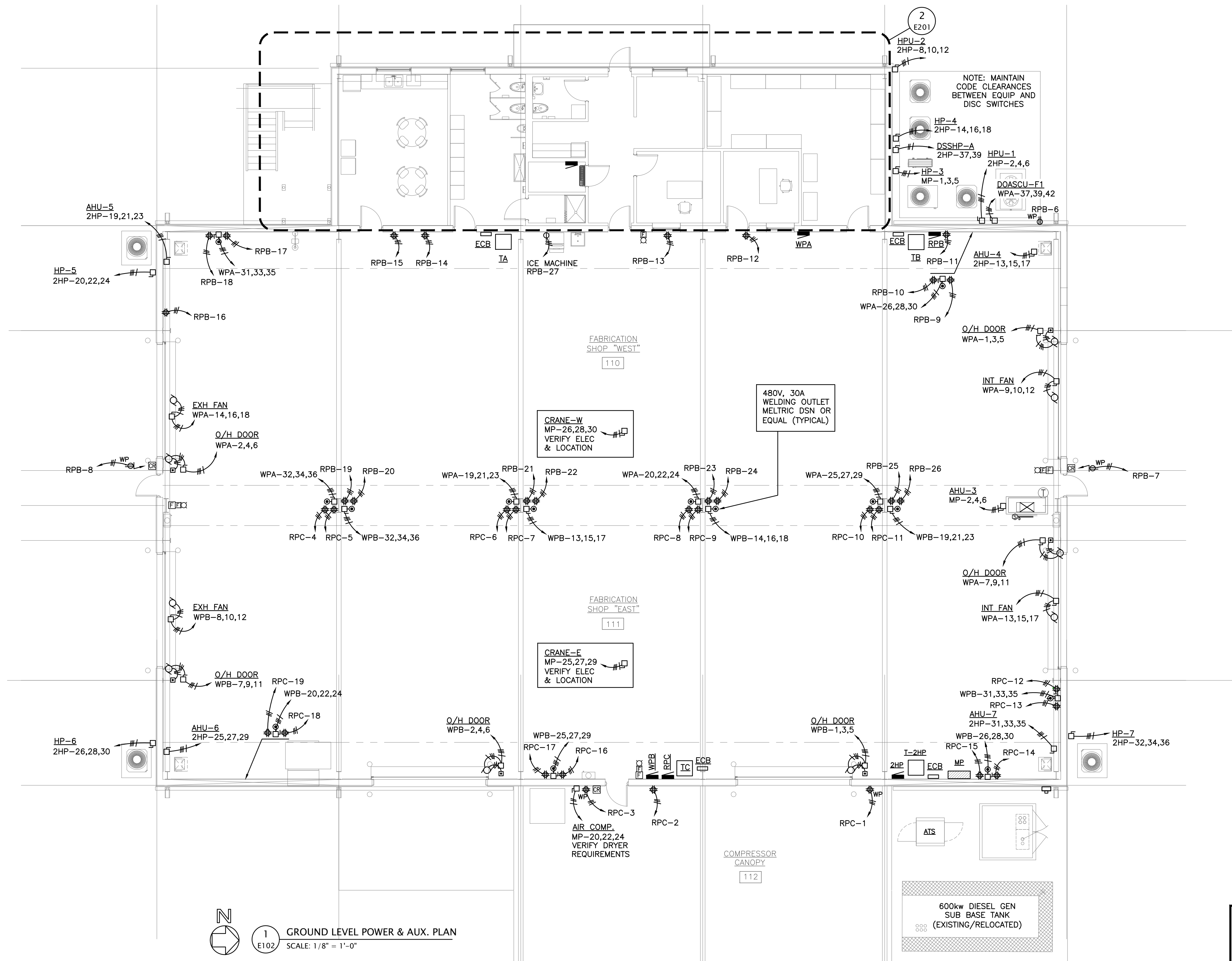
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES.
 - ALL WORK SHALL COMPLY WITH IBC 2021, NEC 2020, STATE AND LOCAL CODES, AND CHEVRON CONSTRUCTION STANDARDS WHERE APPLICABLE. VERIFY WITH AUTHORITY HAVING JURISDICTION AND COMPLY AS REQUIRED.
 - OMISSIONS OR MISDESCRIPTION OF DETAILS OF WORK WHICH ARE EVIDENTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMISSIONS AND DETAILS OF WORK, BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH & DESCRIBED.
 - EQUIPMENT, MATERIALS, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THIS PERIOD SHALL BE CORRECTED AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.
 - MATERIALS AND ALL COMPONENTS THEREOF SHALL BE NEW AND SHALL BE UL APPROVED WHERE A STANDARD HAS BEEN ESTABLISHED. COMPONENTS SHALL BE EQUAL TO THOSE SCHEDULED ON DRAWINGS.
 - ALL RACEWAY EXPOSED ON THE EXTERIOR SHALL BE RIGID GALVANIZED STEEL "RGS" OR "IMC". EMT SHALL NOT BE ACCEPTABLE. COORDINATE WITH ARCHITECT IF FINISH PAINTING SHALL BE REQUIRED.
 - VERIFY FIELD DIMENSIONS. COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCES.
 - ALL EXIT AND EMERGENCY LIGHTS SHALL BE UNSWITCHED AND SHALL BE SERVED FROM THE SAME CIRCUIT AS THE GENERAL LIGHTING IN THE SAME AREA U.N.O.
 - ALL ELECTRICAL PANELS SHALL HAVE ENGRAVED LAMINATED (BLACK ON WHITE) LABELS IDENTIFYING THEM AS INDICATED ON DRAWINGS.
 - ENSURE THAT ALL PENETRATIONS OF FIRE WALLS AND DECKS ARE PROPERLY SEALED PER IBC, ANY APPLICABLE UL ASSEMBLIES, AND THE SPECIFICATIONS.
 - COLOR OF WIRING DEVICES AND PLATES SHALL BE AS SELECTED BY THE ARCHITECT.
 - COORDINATE LAYOUT CAREFULLY WITH SYSTEMS FURNITURE AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGHING IN POWER AND COMMUNICATIONS OUTLETS TO ENSURE PROPER ORIENTATION OF OUTLETS WITH COMPONENTS OF THESE SYSTEMS.
 - AVOID PENETRATING THE OUTER SKIN OF METAL BUILDING WALLS AND ROOF. MOUNT EQUIPMENT ON STRUCTURAL COLUMNS AND PURLINS WHERE POSSIBLE. PROVIDE MOUNTING STRUT BETWEEN STRUCTURAL MEMBERS WHERE NECESSARY. FOR ANY UNAVOIDABLE ROOF PENETRATION, ENSURE THAT METAL BUILDING MANUFACTURER'S ROOF WARRANTY REQUIREMENTS ARE SATISFIED.
 - CONDUCTOR SIZES INDICATED ON THE DRAWINGS HAVE BEEN SELECTED TO PROVIDE FOR ACCEPTABLE VOLTAGE DROP. DO NOT REDUCE WIRE SIZES SHOWN WITHOUT CONSENT OF ENGINEER. ANY RECEPTACLE BRANCH WIRING OVER 100' SHALL BE #10 AWG FOR HOT AND NEUTRAL.
 - CONDUCTORS SHALL BE SINGLE CONDUCTOR COPPER, STRANDED FOR AWG #8 AND LARGER AND SOLID FOR AWG #10 AND SMALLER, WITH 600 VOLT THHN INSULATION.
 - ALL CONDUCTORS SHALL BE INSTALLED IN METALLIC CONDUIT. PVC SCHEDULE 40, MAY BE INSTALLED BELOW GRADE WITH TRANSITIONS TO PVC SCH 80 IF CONCEALED WALL OR "RGS" IF EXPOSED ABOVE GRADE.
 - THE USE OF MC CABLE IS PERMISSIBLE ONLY IN CONCEALED LOCATIONS AND FOR FLEXIBLE CONNECTIONS TO LIGHTING FIXTURES.
 - THE LOCATION OF OUTLETS AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE AND THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COST.
 - TELECOM OUTLETS WHERE INSTALLED ADJACENT TO RECEPTACLE OUTLETS, SHALL HAVE UNIFORM SPACING BETWEEN RESPECTIVE DEVICES. E.C. SHALL UTILIZE MOUNTING PROVISIONS BETWEEN STUDS, IF REQUIRED, TO MAINTAIN THIS REQUIREMENT.
- FIRE ALARM SYSTEM NOTES:
- THE FIRE ALARM SYSTEM SHALL BE A FIRE SPRINKLER SUPERVISORY TYPE SYSTEM. PROVIDE PRIMARY POWER CIRCUITS AND ALARM NOTIFICATION AND INITIATING CIRCUITS IN ACCORDANCE WITH SPECIFICATIONS.
 - THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. PER IFC 907.7.5.1, AN AUTOMATIC TELEPHONE DIALING DEVICE USED TO TRANSMIT AN EMERGENCY ALARM SHALL NOT BE CONNECTED TO ANY FIRE DEPARTMENT TELEPHONE NUMBER UNLESS APPROVED BY THE FIRE CHIEF.
 - INSTALLATION SHALL COMPLY WITH IBC 2021, NEC 2020, NFPA 72, FACTORY MUTUAL ENGINEERING AND RESEARCH (FM), UL AND LOCAL FIRE MARSHALL REQUIREMENTS.
 - ALL SYSTEM COMPONENTS, ENCLOSURES, FRAMES, SURGE ARRESTORS, ETC. SHALL BE GROUNDED.
 - DUCT DETECTORS SHALL BE PROVIDED BY E.C. AS PART OF THE F/A EQUIPMENT PACKAGE. INSTALLATION OF DUCT DETECTOR, SAMPLING TUBES AND CORRESPONDING FAN SHUTDOWN CONTROL WIRING SHALL BE BY MECHANICAL.
 - IN GENERAL, THE FIRE ALARM WIRING SYSTEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR THE SYSTEM SPECIFIED AND AS FOLLOWS:

POWER, 120VAC, #12 AWG
NOTIFICATION APPLIANCE CIRCUITS (NAC), 24VDC, #14 AWG, NFPA 72 STYLE Z (CLASS B)
SIGNALING LINE CIRCUIT (SLC), 24VDC, STYLE 5 (CLASS B)

ALL CLASS 'A' CIRCUITS SHALL BE INSTALLED SUCH THAT THE OUTGOING AND RETURN CONDUCTORS, EXITING FROM AND RETURNING TO THE CONTROL UNIT RESPECTIVELY, ARE ROUTED SEPARATELY AND NOT ROUTED THROUGH THE SAME CABLE OR RACEWAY. A LOOP CIRCUIT SYSTEM SHALL BE UTILIZED.
 - ALL WIRING SHALL BE IN A COMPLETE CONDUIT SYSTEM, SIZED IN ACCORDANCE WITH NFPA 70 (NEC). JB COVERPLATES SHALL BE RED IN COLOR. PERMANENT MARKER IDENTIFICATION NOTES SHALL BE WRITTEN INSIDE JB FOR ZONE OR ADDRESS OF DEVICE. INSTALLATION SHALL COMPLY WITH SPECIFICATIONS.
 - ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, APPLICABLE STANDARDS AND ACCESSIBLE FOR VISUAL INSPECTION AND MAINTENANCE. WIRING DIAGRAMS SHALL BE OBTAINED FROM THE SYSTEM MANUFACTURER AND INSTALLED ACCORDINGLY TO MEET THE SPECIFIED TYPES.
 - E.C. SHALL COORDINATE WITH GENERAL CONTRACTOR, FIRE ALARM CONTRACTOR AND FIRE MARSHALL ALL REQUIRED INSPECTIONS.
 - A "CERTIFICATE OF COMPLETION" IN ACCORDANCE WITH NFPA 72 SHALL BE FURNISHED PRIOR TO FINAL ACCEPTANCE.

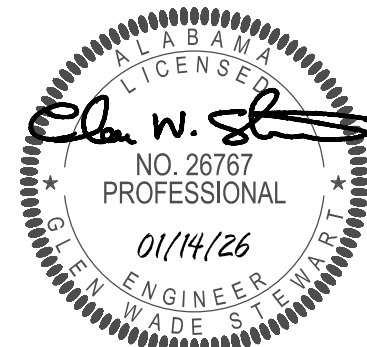
	thompson ENGINEERING		ALABAMA PORT AUTHORITY PORT OF MOBILE
CLIENT DWG NO:			
		McDUFFIE TERMINAL IMPROVEMENTS NEW FABRICATION SHOP PACKAGE ELECTRICAL NOTES & LEGEND	
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DRAWN: GWS	CK'D: GWS	APPD: GWS	DATE: TBD
SCALE: NONE			
PROJECT NO: 4617	DWG NO: E-100	REV: E	

Form: CMS-830-00-EM-02104 Antism ANSI 0 days



1
E102

GROUND LEVEL POWER & AUX. PLAN
SCALE: 1/8" = 1'-0"



	E	ISSUED FOR BID	GWS	GWS	GWS	01-14-26
	D	100% DESIGN REVIEW	GWS	GWS	GWS	09-09-25
	C	95% DESIGN REVIEW	GWS	GWS	GWS	08-08-25
	B	60% DESIGN REVIEW	GWS	GWS	GWS	06-11-25
	A	30% DESIGN REVIEW	GWS	GWS	GWS	04-11-25
REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

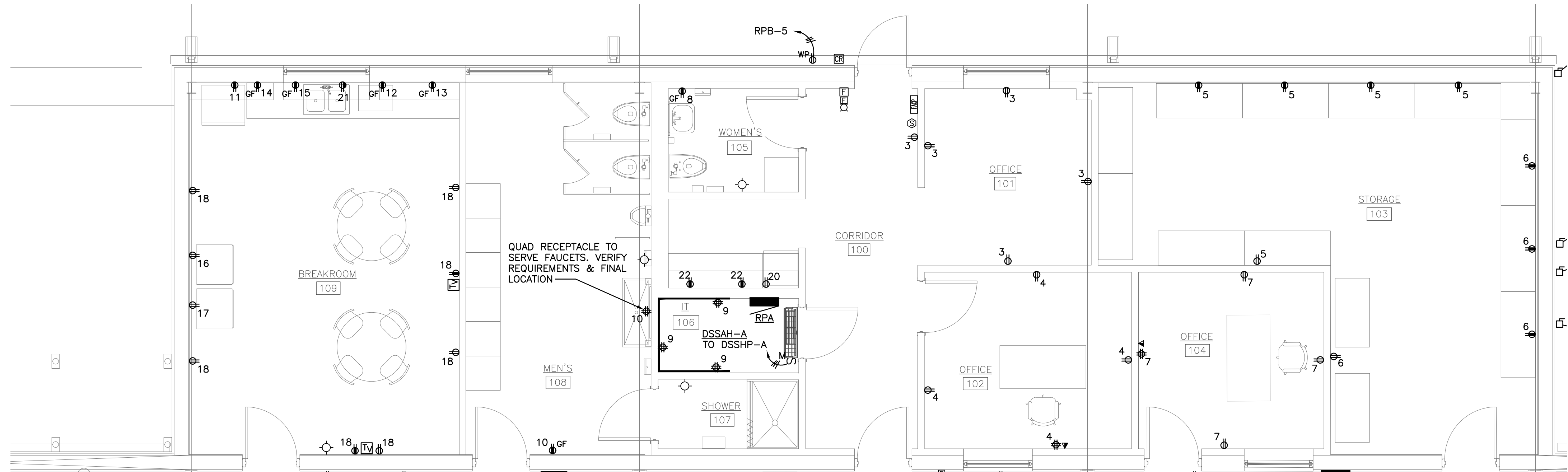
CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
POWER & AUXILIARY PLAN

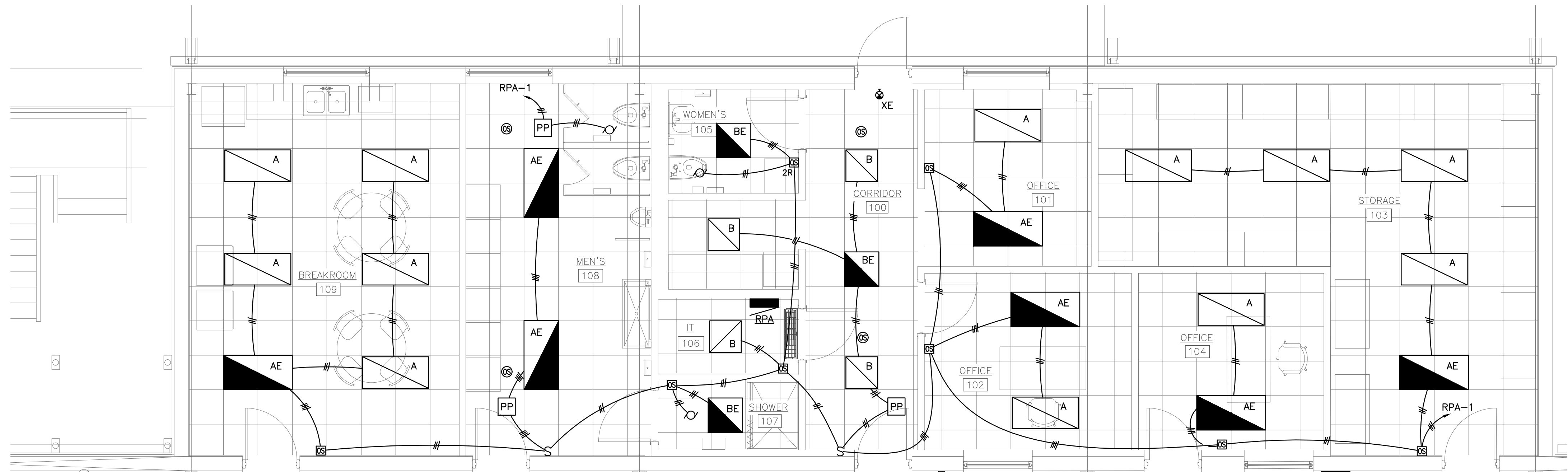
ED FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617	DWG NO: E-102
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REV: F



N
2
E201
FIRST FLOOR
OFFICE POWER & AUX. PLAN
SCALE: 1/4" = 1'-0"



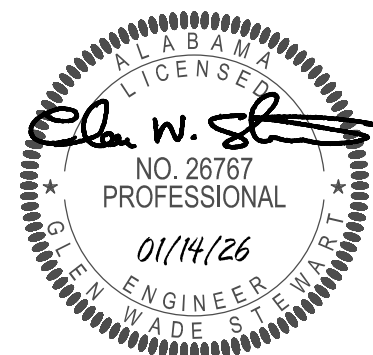
N
1
E201
FIRST FLOOR
OFFICE LIGHTING PLAN
SCALE: 1/4" = 1'-0"



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:

NOTES



E	ISSUED FOR BID	GWS	GWS	GWS	01-14-26
D	100% DESIGN REVIEW	GWS	GWS	GWS	09-09-25
C	95% DESIGN REVIEW	GWS	GWS	GWS	08-08-25
B	60% DESIGN REVIEW	GWS	GWS	GWS	06-11-25
A	30% DESIGN REVIEW	GWS	GWS	GWS	04-11-25

REFERENCE DRAWINGS

NO.	REVISION	DRAWN	CK'D	APPD	DATE
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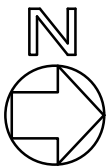
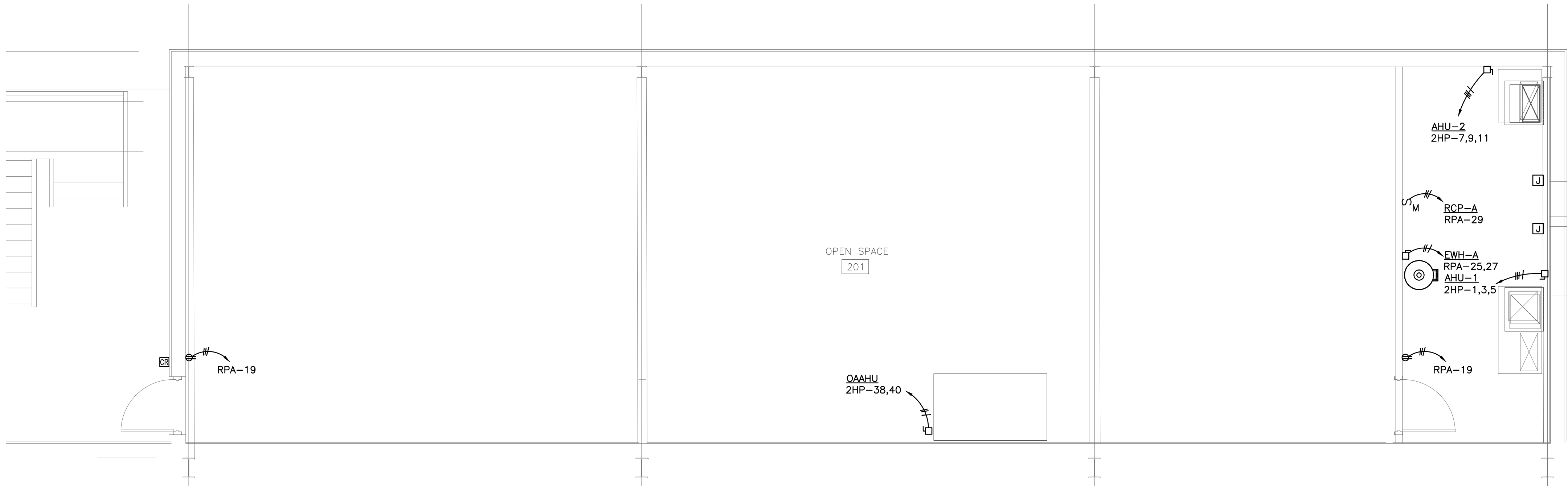


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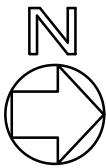
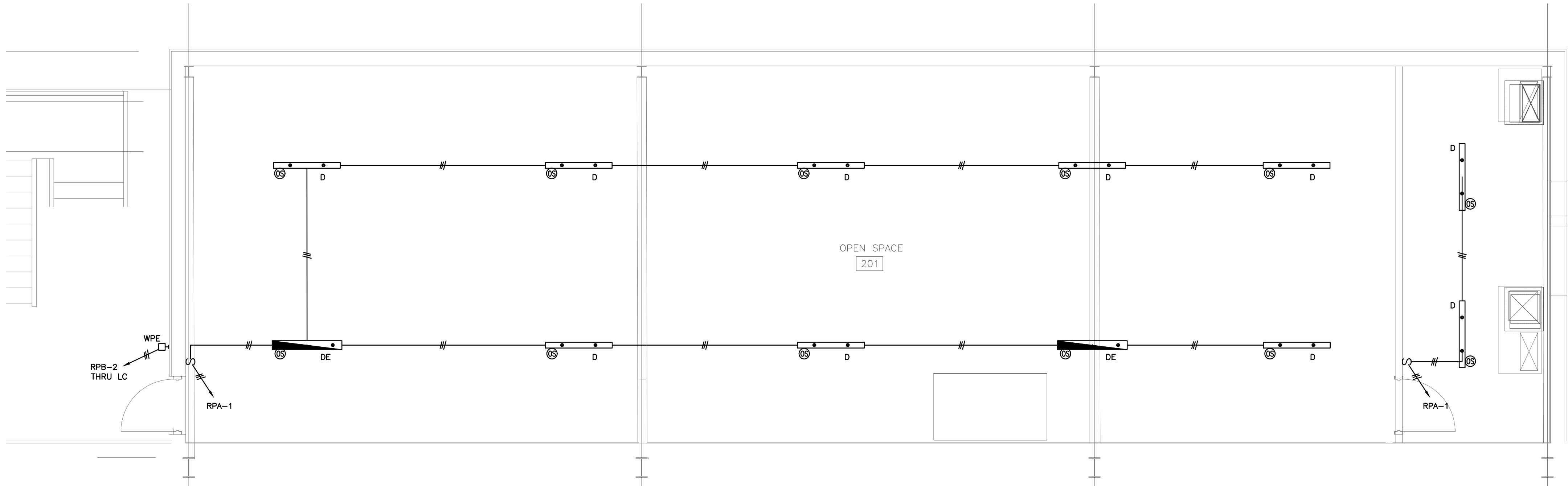
McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
ENLARGED OFFICE PLANS

FOR: ALABAMA PORT AUTHORITY

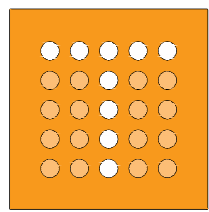
PROJECT NO: 4617 DWG NO: E-201 REV: E



2 SECOND FLOOR POWER & AUX. PLAN
SCALE: 1/4" = 1'-0"



1 SECOND FLOOR LIGHTING PLAN
SCALE: 1/4" = 1'-0"



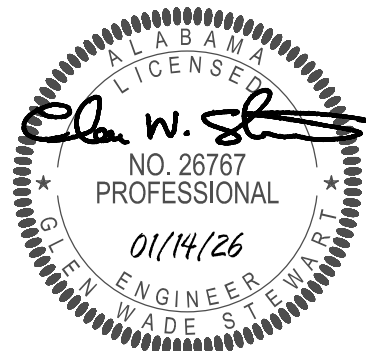
thompson
ENGINEERING



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:

NOTES



E	ISSUED FOR BID	GWS	GWS	GWS	01-14-26
D	100% DESIGN REVIEW	GWS	GWS	GWS	09-09-25
C	95% DESIGN REVIEW	GWS	GWS	GWS	08-08-25
B	60% DESIGN REVIEW	GWS	GWS	GWS	06-11-25
A	30% DESIGN REVIEW	GWS	GWS	GWS	04-11-25



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McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
ENLARGED OFFICE PLANS

FOR: ALABAMA PORT AUTHORITY

REFERENCE DRAWINGS

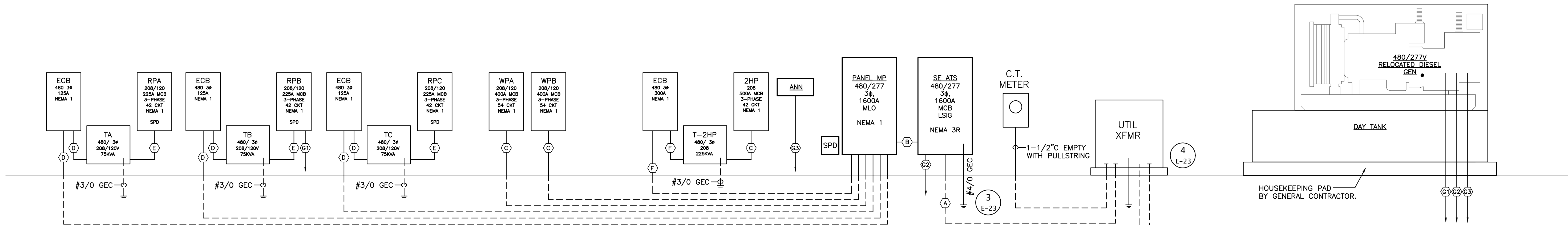
NO.	REVISION	DRAWN	CK'D	APPD	DATE
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DRAWN: GWS CK'D: GWS APPD: GWS DATE: TBD SCALE: NONE

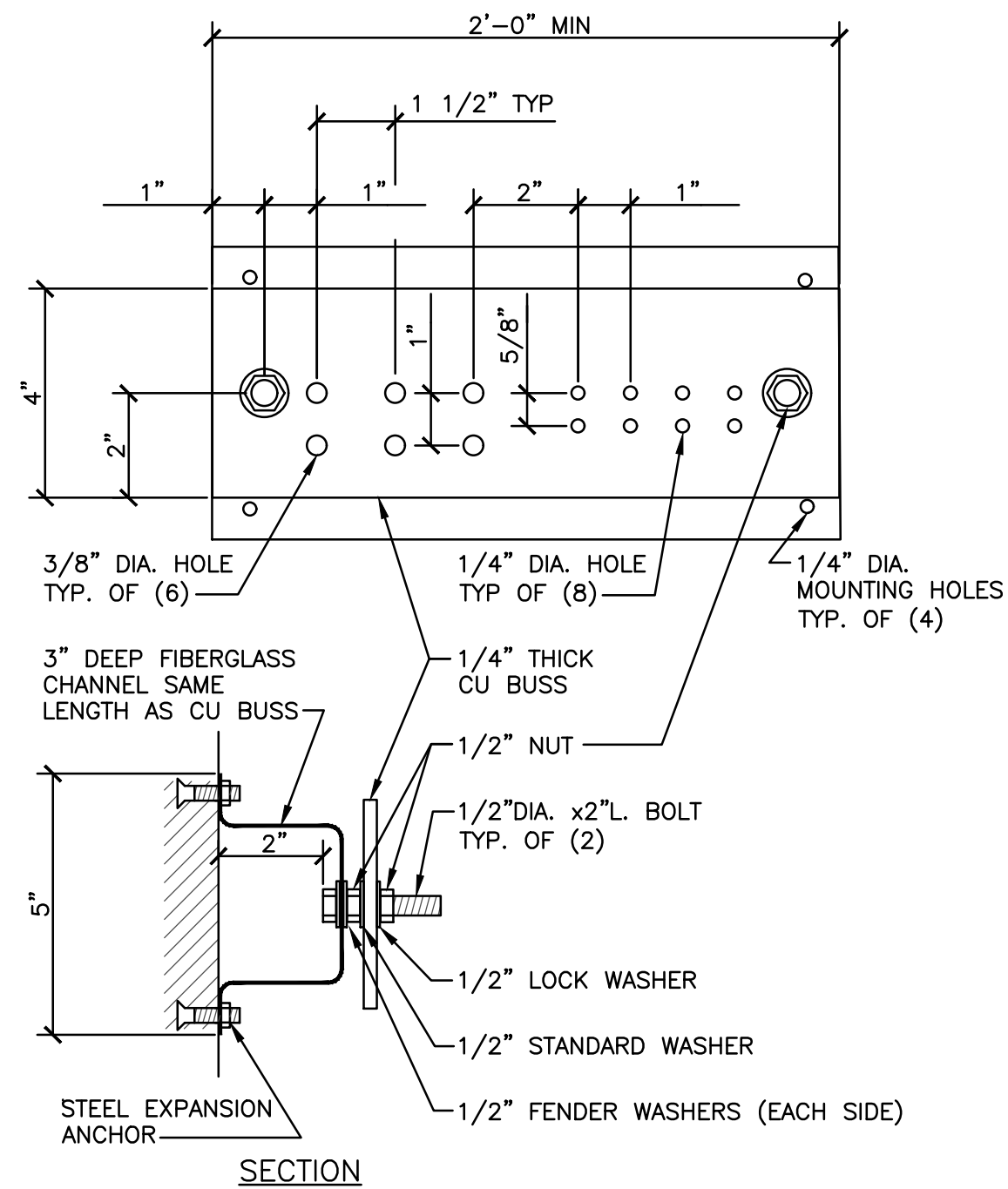
PROJECT NO: 4617

DWG NO: E-202

REV: E



1 ELECTRICAL RISER DIAGRAM (NEW)
E300 SCALE: NONE

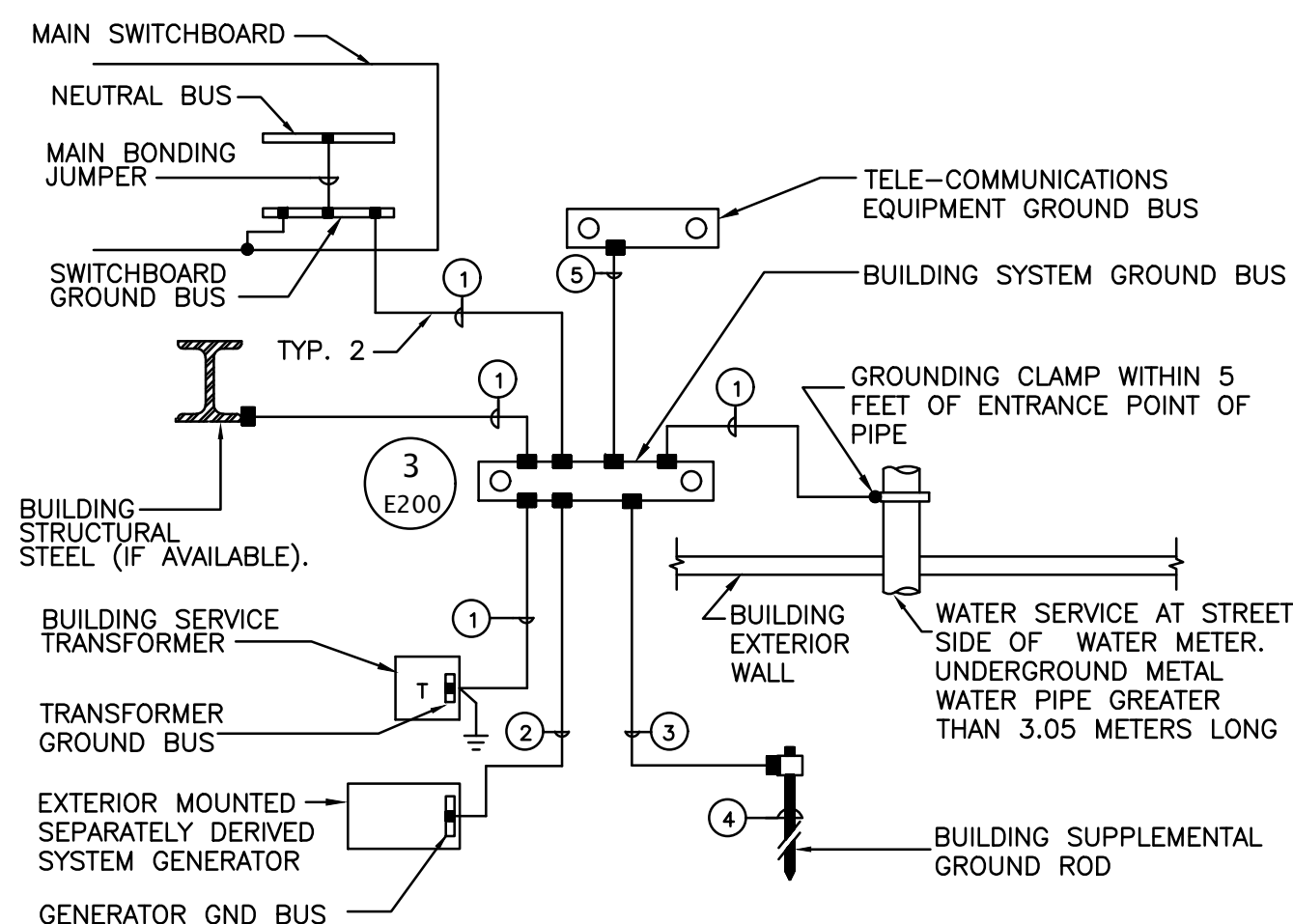


SECTION

GENERAL NOTES

1. ALL HARDWARE SHOWN SHALL BE STAINLESS STEEL.
2. PROVIDE 1 MOUNTING POINT PER 12" OF BAR LENGTH.
3. HOLES MAY BE ADDED IF REQUIRED.

3 GROUND BUS DETAIL
E300 SCALE: NONE



LEGEND:

- INDICATES BOLTED CONNECTION.
 - INDICATES EXOTHERMIC WELD CONNECTION, COMPATIBLE WITH MATERIALS BEING JOINED.
- 1 4/0 AWG INSULATED COPPER GROUND CONDUCTOR IN 1-1/4" CONDUIT.
 - 2 4/0 AWG COPPER GROUND CONDUCTOR ENCASED IN CONCRETE.
 - 3 4/0 AWG BARE COPPER GROUND CONDUCTOR.
 - 4 3/4" x 10' COPPER-CLAD GROUND ROD DRIVEN WITH TOP 12" BELOW GRADE.
 - 5 2/0 AWG INSULATED COPPER GROUND CONDUCTOR IN 1-1/4" CONDUIT.

2 SERVICE GROUND DETAIL
E300 SCALE: NONE

- 4 PARALLEL RUNS: (1600A)
4-#600KCML AWG THWN, 4"C
- 4 PARALLEL RUNS: (1600A)
4-#600KCML AWG THWN &
1-#4/O GND, 4"C
- 2 PARALLEL RUNS: (500A)
3-#250KCML AWG THWN &
1-#4 GND, 3"C
- 3-#1 AWG THHN & 1-#6 GND, 1-1/4"C
- 4-#4/O AWG THHN & 1-#6 GND, 2-1/2"C
- 3-#350KCML AWG THHN & 1-#4 GND, 3"C
- 120V, 20A CKT - BATTERY CHARGER
208V, 20A CKT - BLOCK HEATER
- 6-#14 AWG, 3/4" TO ATS FOR CONTROL
- BELDEN CONTROL CABLE IN 3/4" CONDUIT TO REMOTE ANNUCIATOR (VERIFY WITH GEN MFRG)



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:



McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION SHOP PACKAGE
ELECTRICAL DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617

DWG NO: E-300

REV: E

PANEL MP													
VOLTAGE (L-N): 277				ENCLOSURE TYPE: NEMA 1									
VOLTAGE (L-L): 480				MOUNTING: SURFACE									
PHASES, WIRES: 3 ϕ 4 W				AIC RATING (A): 65000									
MINIMUM BUS CAPACITY (A): 1600 A				NOTES: -----									
MAIN O.C. DEVICE (A): MLO													
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)			POLE	TRIP AMPS	DESCRIPTION		CKT NO		
				A	B	C							
1,3,5	HPU-3	25	3	5265	15630		3	60	AHU-3		2,4,6		
1,3,5	HPU-3	25	3		5265	15630	3	60	AHU-3		2,4,6		
1,3,5	HPU-3	25	3			5265	3	60	AHU-3		2,4,6		
7,9,11	PANEL WPA	400	3	68529	74344		3	400	PANEL WPB		8,10,12		
7,9,11	PANEL WPA	400	3		68529	74344	3	400	PANEL WPB		8,10,12		
7,9,11	PANEL WPA	400	3			68529	3	400	PANEL WPB		8,10,12		
13,15,17	XFMR RPA	125	3	8714	10688		3	125	XFMR RPB		14,16,18		
13,15,17	XFMR RPA	125	3		8490	10500	3	125	XFMR RPB		14,16,18		
13,15,17	XFMR RPA	125	3			7530	3	125	XFMR RPB		14,16,18		
19,21,23	XFMR RPC	125	3	10500	62000		3	125	AIR COMP		20,22,24		
19,21,23	XFMR RPC	125	3		9000	62000	3	125	AIR COMP		20,22,24		
19,21,23	XFMR RPC	125	3			9000	3	125	AIR COMP		20,22,24		
25,27,29	CRANE E	125	3	25000	25000		3	125	CRANE W		26,28,30		
25,27,29	CRANE E	125	3		25000	25000	3	125	CRANE W		26,28,30		
25,27,29	CRANE E	125	3			25000	3	125	CRANE W		26,28,30		
31,33,35	SHOP CLG FANS	20	3	3330	50688		3	250	XFMR 2HP		32,34,36		
31,33,35	SHOP CLG FANS	20	3		3330	50688	3	250	XFMR 2HP		32,34,36		
31,33,35	SHOP CLG FANS	20	3			3330	3	250	XFMR 2HP		32,34,36		
37,39,41	SPARE	200	3	0	0		3	200	SPARE		38,40,42		
37,39,41	SPARE	200	3		0	0	3	200	SPARE		38,40,42		
37,39,41	SPARE	200	3			0	3	200	SPARE		38,40,42		
43,45,47	SPARE	100	3	0	0		3	100	SPARE		44,46,48		
43,45,47	SPARE	100	3		0	0	3	100	SPARE		44,46,48		
43,45,47	SPARE	100	3			0	3	100	SPARE		44,46,48		
49,51,53	SPARE	100	3	0	0		3	30	SPD		50,52,54		
49,51,53	SPARE	100	3		0	0	3	30	SPD		50,52,54		
49,51,53	SPARE	100	3			0	3	30	SPD		50,52,54		
				CONNECTED LOAD PHASE TOTALS (VA)									
				359688	357776	353336							
				CONNECTED LOAD (KVA)			DEMAND FACTOR			DEMAND LOAD (KVA)			
Welding				350.0			0.50			175.0			
Cooling				21.0			1.00			21.0			
Cooling and Heating				128.7			1.00			128.7			
Heating				86.6			1.00			86.6			
Lighting				2.2			1.25			2.7			
Kitchen Equipment - Non-Dwelling Unit				10.5			0.65			6.8			
Lighting - Exterior				0.4			1.25			0.4			
Motors				219.6			1.00			219.6			
Motors (Largest)				186.0			1.25			232.5			
Receptacles (0 - 10 KVA)				10.0			1.00			10.0			
Receptacles (Over 10 KVA)				55.8			0.50			27.9			
TOTAL:				1070.8						911.4			
LOAD (AMPS):				1288.0						1096.2			
				CONNECTED LOAD (KVA)			DEMAND FACTOR			DEMAND LOAD (KVA)			
Welding				350.0			0.50			175.0			
Cooling				21.0			1.00			21.0			
Motors				219.6			1.00			219.6			
Motors (Largest)				186.0			1.25			232.5			
Receptacles (0 - 10 KVA)				10.0			1.00			10.0			
Receptacles (Over 10 KVA)				55.8			0.50			27.9			
TOTAL:				1070.8						911.4			
LOAD (AMPS):				1288.0						1096.2			

PANEL				RPA									
VOLTAGE (L-N):		120		ENCLOSURE TYPE:		NEMA 1							
VOLTAGE (L-L):		208		MOUNTING:		SURFACE							
PHASES, WIRES:		3 Ø 4 W		AIC RATING (A):		22000							
MINIMUM BUS CAPACITY (A):		225 A		NOTES:		-----							
MAIN O.C. DEVICE (A):		225 A											
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)			POLE	TRIP AMPS	DESCRIPTION	CKT NO			
				A	B	C							
1	LTGS, OFFICE	20	1	1524	0		1	20	SPARE	2			
3	REC, 101 OFFICE	20	1		900	900	1	20	REC, 102 OFFICE	4			
5	REC, 103 STORAGE	20	1			900	1	20	REC, 103 STORAGE	6			
7	REC, 104 OFFICE	20	1	900	180		1	20	REC, 105 WOMEN'S RR	8			
9	REC, 106 IT	20	1		540	360	1	20	REC, 108 MEN'S RR (GFCI)	10			
11	REC, 109 BREAKROOM FRIDGE	20	1			1500	1	20	REC, 109 BREAKROOM (GFCI)	12			
13	REC, 109 BREAKROOM (GFCI)	20	1	1500	1500		1	20	REC, 109 BREAKROOM (GFCI)	14			
15	REC, 109 BREAKROOM (GFCI)	20	1		180	1500	1	20	REC, 109 BREAKROOM APPLIANCE	16			
17	REC, 109 BREAKROOM APPLIANCE	20	1			1500	1	20	REC, BREAKROOM 109 (GFCI)	18			
19	REC, 2ND FLOOR	20	1	360	500		1	20	REC, CORR. 100 PRINTER	20			
21	REC, 109 DISPOSAL	20	1		1500	360	1	20	REC, CORR. 100 COUNTER	22			
23	FACP	20	1			0	1	20	SPARE	24			
25,27	EWI-A	30	2	2250	0		1	20	SPARE	26			
25,27	EWI-A	30	2		2250	0	1	20	SPARE	28			
29	RCP-A	20	1			150	1	20	SPARE	30			
31	SPARE	20	1	0	0		1	20	SPARE	32			
33	SPARE	20	1		0	0	1	20	SPARE	34			
35	SPARE	20	1			0	1	20	SPARE	36			
37	SPARE	20	1	0	0		3	30	SPD	38,40,42			
39	SPARE	20	1		0	0	3	30	SPD	38,40,42			
41	SPARE	20	1			0	3	30	SPD	38,40,42			
				CONNECTED LOAD PHASE TOTALS (VA)									
				8714	8490	7530							
				CONNECTED LOAD (KVA)			DEMAND FACTOR			DEMAND LOAD (KVA)			
Lighting				1.2	1.25	1.5				21.9 KVA			
Kitchen Equipment – Non-Dwelling Unit				9.0	0.65	5.8				59.1KVA			
Motors				0.3	1.00	0.3				164.1AMPS			
Motors (Largest)				0.1	1.25	0.2				73 %			
Receptacles (0 – 10 KVA)				9.6	1.00	9.6				PHASE BALANCE			
Heating				4.5	1.00	4.5				A TO B 97 %			
										B TO C 89 %			
										C TO A 86 %			
TOTAL:				24.7		21.9							
LOAD (AMPS):				68.7		60.9							

PANEL												RPC			
VOLTAGE (L-N):				120				ENCLOSURE TYPE:				NEMA 1			
VOLTAGE (L-L):				208				MOUNTING:				SURFACE			
PHASES, WIRES:				3 Ø 4 W				AIC RATING (A):				22000			
MINIMUM BUS CAPACITY (A):				225 A				NOTES:				-----			
MAIN O.C. DEVICE (A):				225 A											
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)						POLE	TRIP AMPS	DESCRIPTION	CKT NO		
				A		B		C							
1	REC, COMPRESSOR CANOPY	20	1	1500	1500					1	20	REC, COMPRESSOR CANOPY	2		
3	REC, COMPRESSOR CANOPY	20	1		1500	1500				1	20	REC, QUAD SHOP EAST	4		
5	REC, QUAD SHOP EAST	20	1				1500	1500		1	20	REC, QUAD SHOP EAST	6		
7	REC, QUAD SHOP EAST	20	1	1500	1500					1	20	REC, QUAD SHOP EAST	8		
9	REC, QUAD SHOP EAST	20	1		1500	1500				1	20	REC, QUAD SHOP EAST	10		
11	REC, QUAD SHOP EAST	20	1				1500	1500		1	20	REC, QUAD SHOP EAST	12		
13	REC, QUAD SHOP EAST	20	1	1500	1500					1	20	REC, QUAD SHOP EAST	14		
15	REC, QUAD SHOP EAST	20	1		1500	1500				1	20	REC, QUAD SHOP EAST	16		
17	REC, QUAD SHOP EAST	20	1				1500	1500		1	20	REC, QUAD SHOP EAST	18		
19	REC, QUAD SHOP EAST	20	1	1500	0					1	20	SPARE	20		
21	SPARE	20	1		0	0				1	20	SPARE	22		
23	SPARE	20	1				0	0		1	20	SPARE	24		
25	SPARE	20	1	0	0					1	20	SPARE	26		
27	SPARE	20	1		0	0				1	20	SPARE	28		
29	SPARE	20	1				0	0		1	20	SPARE	30		
31	SPARE	20	1	0	0					1	20	SPARE	32		
33	SPARE	20	1		0	0				1	20	SPARE	34		
35	SPARE	20	1				0	0		1	20	SPARE	36		
37	SPARE	20	1	0	0					3	30	SPD	38,40,42		
39	SPARE	20	1		0	0				3	30	SPD	38,40,42		
41	SPARE	20	1				0	0		3	30	SPD	38,40,42		
				CONNECTED LOAD PHASE TOTALS (VA)											
				10500		9000		9000							
				CONNECTED LOAD (KVA)				DEMAND FACTOR		DEMAND LOAD (KVA)		DEMAND LOAD			
Receptacles (0 - 10 KVA)				10.0				1.00		10.0		19.3 KVA			
Receptacles (Over 10 KVA)				18.5				0.50		9.3		61.8 KVA			
												171.6 AMPS			
												76 %			
												PHASE BALANCE			
												A TO B 86 %			
												B TO C 100 %			
												C TO A 86 %			
TOTAL:				28.5						19.3					
LOAD (AMPS):				79.1						53.4					

PANEL RPB													
VOLTAGE (L-N):				120		ENCLOSURE TYPE:				NEMA 1			
VOLTAGE (L-L):				208		MOUNTING:				SURFACE			
PHASES, WIRES:				3 4 W		AIC RATING (A):				22000			
MINIMUM BUS CAPACITY (A):				225 A		NOTES:				-----			
MAIN O.C. DEVICE (A):				225 A									
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)						POLE	TRIP AMPS	DESCRIPTION	CKT NO
				A		B		C					
1	LTGS, SHOP	20	1	880	448					1	20	LTGS, EXTERIOR	2
3	SPARE	20	1			0	0			1	20	SPARE	4
5	REC, EXT. W (GFCI)	20	1					180	180	1	20	REC, EXT. HPU (GFCI)	6
7	REC, EXT. S (GFCI)	20	1	180	180					1	20	REC, EXT. N (GFCI)	8
9	REC, QUAD SHOP (GFCI)	20	1			1500	1500			1	20	REC, QUAD SHOP (GFCI)	10
11	REC, QUAD SHOP (GFCI)	20	1					1500	1500	1	20	REC, QUAD SHOP (GFCI)	12
13	REC, QUAD SHOP (GFCI)	20	1	1500	1500					1	20	REC, QUAD SHOP (GFCI)	14
15	REC, QUAD SHOP (GFCI)	20	1			1500	1500			1	20	REC, QUAD SHOP (GFCI)	16
17	REC, QUAD SHOP (GFCI)	20	1					1500	1500	1	20	REC, QUAD SHOP (GFCI)	18
19	REC, QUAD SHOP (GFCI)	20	1	1500	1500					1	20	REC, QUAD SHOP (GFCI)	20
21	REC, QUAD SHOP (GFCI)	20	1			1500	1500			1	20	REC, QUAD SHOP (GFCI)	22
23	REC, QUAD SHOP (GFCI)	20	1					1500	1500	1	20	REC, QUAD SHOP (GFCI)	24
25	REC, QUAD SHOP (GFCI)	20	1	1500	1500					1	20	REC, QUAD SHOP (GFCI)	26
27	REC, ICE MACHINE	20	1			1500	0			1	20	SPARE	28
29	SPARE	20	1					0	0	1	20	SPARE	30
31	SPARE	20	1	0	0					1	20	SPARE	32
33	SPARE	20	1			0	0			1	20	SPARE	34
35	SPARE	20	1					0	0	1	20	SPARE	36
37	SPARE	20	1	0	0					3	30	SPD	38,40,42
39	SPARE	20	1			0	0			3	30	SPD	38,40,42
41	SPARE	20	1					0	0	3	30	SPD	38,40,42
				CONNECTED LOAD PHASE TOTALS (VA)									
				10688		10500		9360					
				CONNECTED LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)		DEMAND LOAD		22.0 KVA	
Lighting				1.0		1.25		1.2		SPARE CAPACITY		59.0 KVA	
Kitchen Equipment – Non-Dwelling Unit				1.5		1.00		1.5		SPARE CAPACITY		163.9 AMPS	
Lighting – Exterior				0.4		1.25		0.4		PHASE BALANCE		73 %	
Receptacles (0 – 10 KVA)				10.0		1.00		10.0		A TO B		98 %	
Receptacles (Over 10 KVA)				17.7		0.50		8.9		B TO C		89 %	
										C TO A		88 %	
TOTAL:				30.5				22.0					
LOAD (AMPS):				84.8				61.1					



MAY 16, 2025

For Help Desk Phone Numbers [Click here](#)

Selected Model			
Engine: 3412	Generator Frame: 594	Genset Rating (kW): 600.0	Line Voltage: 480
Fuel: Diesel	Generator Arrangement: 1366616	Genset Rating (kVA): 750.0	Phase Voltage: 277
Frequency: 60	Excitation Type: Permanent Magnet	Pwr. Factor: 0.8	Rated Current: 902.1
Duty: STANDBY	Connection: SERIES STAR	Application: EPG	Status: Current

Version: 39094 /38915 /38261 /2151

Generator Specification		Generator Efficiency		
Frame: 594	Type: SR4B	No. of Bearings: 1		
Winding Type: RANDOM WOUND Flywheel: 18.0		Per Unit Load	kW	Efficiency %
Connection: SERIES STAR		0.25	150.0	91.7
Phases: 3		0.5	300.0	94.5
Poles: 4		0.75	450.0	95.0
Sync Speed: 1800		1.0	600.0	94.9
		Generator Pitch: 0.7333		

Reactances	Per Unit	Ohms
SUBTRANSIENT - DIRECT AXIS X_d	0.1517	0.0466
SUBTRANSIENT - QUADRATURE AXIS X_q	0.1517	0.0466
TRANSIENT - SATURATED X_d'	0.2201	0.0676
SYNCHRONOUS - DIRECT AXIS X_d	2.9626	0.9101
SYNCHRONOUS - QUADRATURE AXIS X_q	1.5062	0.4627
NEGATIVE SEQUENCE X_2	0.1517	0.0466
ZERO SEQUENCE X_0	0.0436	0.0134

Time Constants	Seconds
OPEN CIRCUIT TRANSIENT - DIRECT AXIS T'_{d0}	2.6440
SHORT CIRCUIT TRANSIENT - DIRECT AXIS T'_d	0.1963
OPEN CIRCUIT SUBTRANSIENT - DIRECT AXIS T''_{d0}	0.0094
SHORT CIRCUIT SUBTRANSIENT - DIRECT AXIS T''_d	0.0072
OPEN CIRCUIT SUBTRANSIENT - QUADRATURE AXIS T'^{q0}	0.0082
SHORT CIRCUIT SUBTRANSIENT - QUADRATURE AXIS T''^q	0.0065
EXCITER TIME CONSTANT T_e	0.1400
ARMATURE SHORT CIRCUIT T_a	0.0303

Short Circuit Ratio: 0.46	Stator Resistance = 0.0088 Ohms	Field Resistance = 1.5 Ohms
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Voltage Regulation		Generator Excitation			
Voltage level adjustment: +/-	5.0%		No Load	Full Load, (rated) pf	
Voltage regulation, steady state: +/-	0.5%			Series	Parallel
Voltage regulation with 3% speed change: +/-	0.5%	Excitation voltage:	8.7 Volts	39.98 Volts	Volts
Waveform deviation line - line, no load: less than 5.0%		Excitation current	1.93 Amps	7.29 Amps	Amps
Telephone influence factor: less than	50				

PROJECT PARAMETERS

Frequency (hz):	60.0	Number of Genset to Parallel:	1.0
Duty:	Standby	Ambient Temperature (F):	104.0
Phase:	Three	Altitude (ft):	100.0
Voltage:	120/208, Parallel Wye	Max Allowable Temperature Rise:	125.0
Fuel Type(s):	Diesel	Max Allowable Project Voltage Dip (%):	24.0
Emissions Preference:	US Stationary Emergency	Max Allowable Project Frequency Dip (%):	10.0
Country:	United States		
Min Load Capacity (%):	30.0		
Max Load Capacity (%):	100.0		

Generator Set Name:		B-Code:	BC4
Engine Name:		R-Code:	R09
Fuel:	Diesel	Number of Leads:	12.0
Cooling System:	High Ambient	Reconnectable:	Yes
Alternator Frame:		Full Single Phase Output:	No
Alternator Winding:		Increased Motor Starting:	No
Alternator Excitation:	PMG	Extended Stack:	No
Temperature Rise:	80.0		
Max SkVA:	3657.0		

LOADS AND STEPS

Step Name			Starting		Running			Cyclic Load	NonLinear Load
Step #	Load Name	Load Qty	kW	kVA	kW	kVA	Amps		
1	Step 1		128.27	142.36	126.27	142.36	395.62		
	LIGHTING	1	2.56	2.7	2.56	2.7	7.5		Y
	LIGHTING, EXT.	1	0.38	0.4	0.38	0.4	1.11		Y
	RECEPTACLES	1	34.02	37.8	34.02	37.8	105.05		
	KITCHEN EQUIP	1	6.12	6.8	6.12	6.8	18.9		
	HEAT	1	78.21	86.9	78.21	86.9	241.5		
	MOTOR, HVAC	1	6.98	7.76	6.98	7.76	21.58		Y
2	Step 2		165.7	235.72	24.24	29.54	82.09		
	AHU-1	1	32.41	40.51	4.76	5.98	28.77		
	AHU-2	1	32.31	54.69	4.76	5.56	15.45		
	AHU-3	1	68.69	85.86	9.96	12.44	59.82		
	AHU-4	1	32.29	54.66	4.76	5.56	15.45		
3	Step 3		429.49	499.83	329.28	367.1	1020.18		
	WELDING	1	332.5	350.0	315.0	350.0	972.65		
	AHU-5	1	32.29	54.66	4.76	5.56	15.45		
	AHU-6	1	32.41	40.51	4.76	5.98	28.77		
	AHU-7	1	32.29	54.66	4.76	5.56	15.45		

Note: Step Starting kW and kVA include all loads marked as cyclical from any prior step. Running kW and kVA assume all cyclical loads start and remain on at their assigned step. Values are total power system, assumed to be shared by paralleled gensets when applicable

Step Name		Starting		Running	
Step #	Step Name	kW	kVA	kW	kVA
1	Step 1	128.27	142.36	128.27	142.36
2	Step 2	293.97	378.08	152.51	171.9
3	Step 3	582	671.73	481.79	539

Effective Project Power Requirements:	529.59
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Note: Cumulative Step Starting kW and kVA include all cyclical loads from prior steps. Cumulative Step Running kW and kVA assume all cyclical loads start and remain on at their assigned step. Values reflect the total power system, assumed to be shared by paralleled gensets when applicable.

PRODUCT CAPACITY

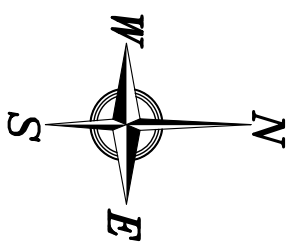
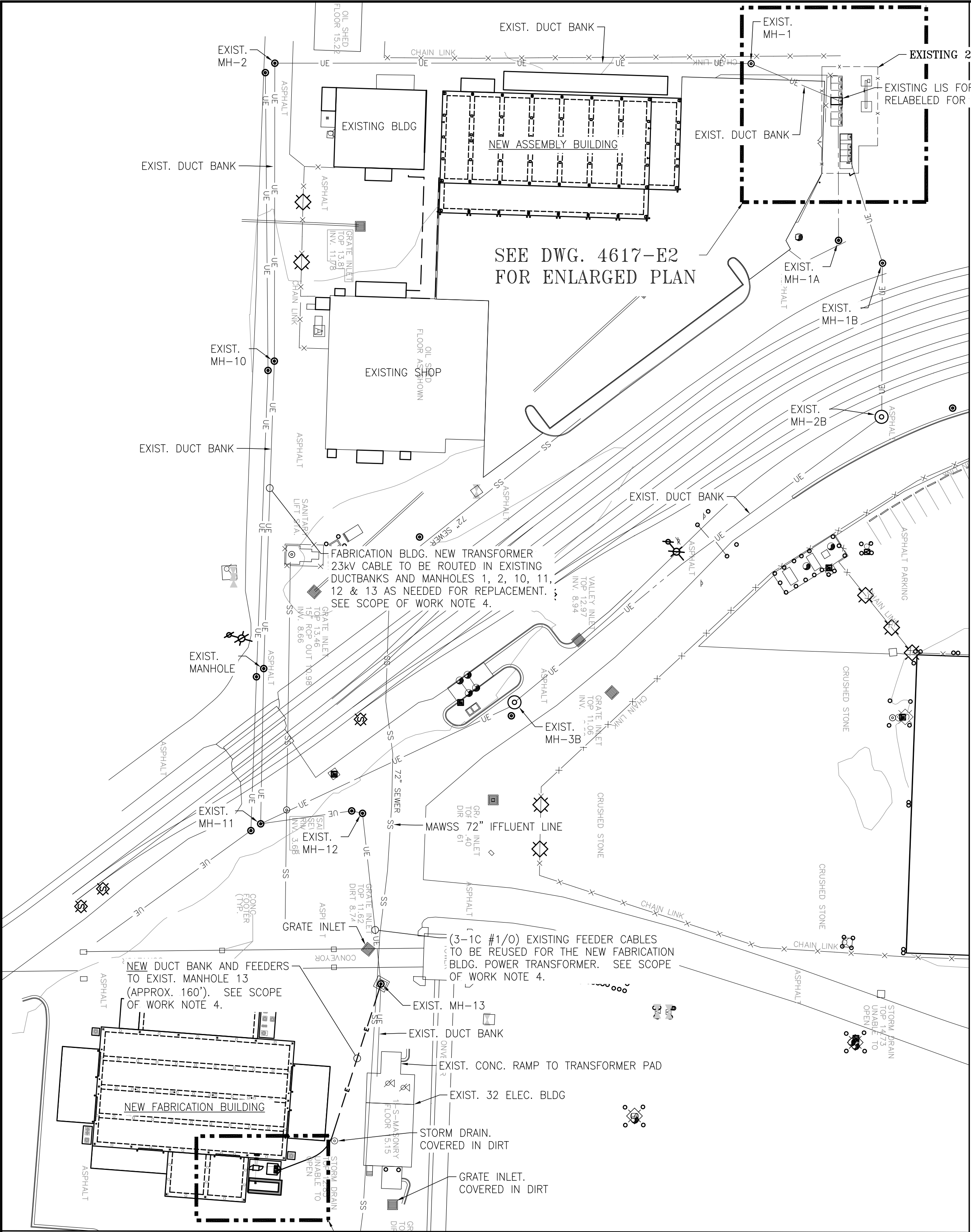
Project Running (kWe):	481.79	Project Max Starting(kWe):	582
Base Product Rating (kWe):	600	Project Effective Max Starting(kWe):	529.59
Site Adjusted Product Rating (kWe):	600	Max Starting kWe:	844
Product kWe Capacity (%):	80.3	Product Capacity (%):	62.75

Project Running (kVA):	539	Total Running Non-Linear kVA:	10.86
Base Alternator Rating (kVA):	790	Max Allowed (THDV %):	10
Site Adjusted Alternator Rating (kVA):	790	Total Voltage Harmonic Distortion (THDV)%:	0.25
Running kVA Capacity (%):	68.23		

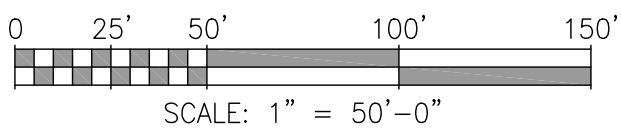
Note: Capacity % values are within the user-selected project parameters for product capacity. If the number of generator sets is greater than one, the values here will reflect one generator set assuming the loads are evenly shared.

Step Name			Voltage	Frequency	
Step #	Step Name	Dip %	Recovery Time	Dip %	Recovery Time
1	Step 1	3.14	0.32	0.9	0.45
2	Step 2	4.21	0.41	1.16	0.58
3	Step 3	10.01	1.29	3.3	1.67

Note: Voltage and frequency dips and recovery times are estimates based on measured performance of prototype testing or advanced simulation. Recovery times may be assumed to be based on ISO8528-5 G2 class bandwidths unless otherwise stated in the model Spec Sheet. Typically, best practice may allow for approximately 5 seconds between application of load steps when designing your system. These values are within the user-selected project parameters for max allowable voltage and frequency dip performance.



ELECTRICAL OVERALL SITE PLAN
1"=50'-0"



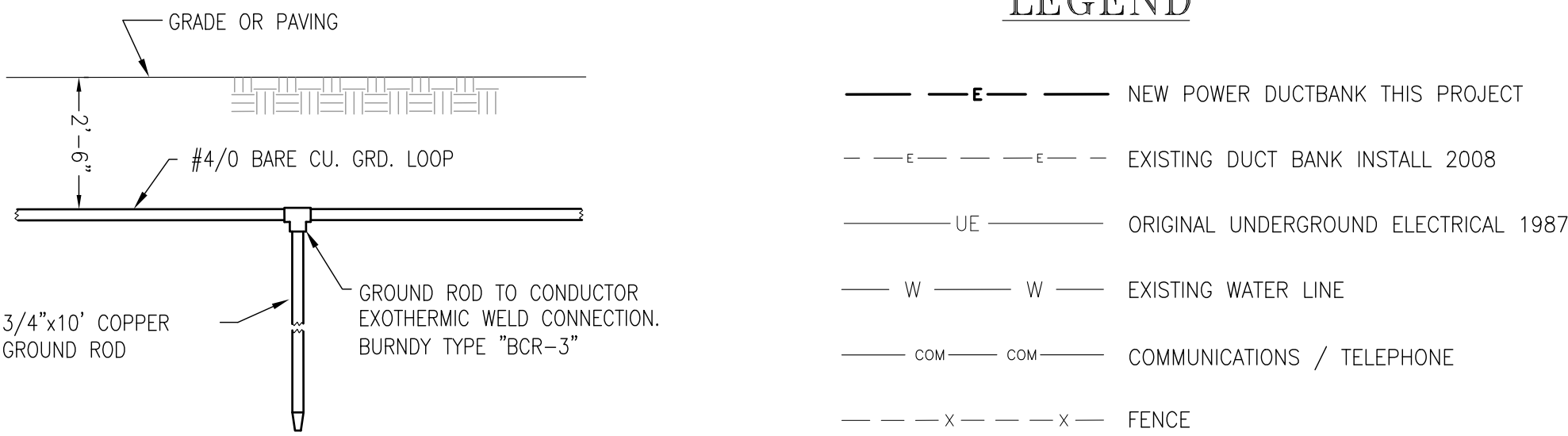
ELECTRICAL GENERAL SCOPE OF WORK:

1. THE WORK COVERED BY THE CONTRACT DRAWINGS 4617-E1 THRU 4617-E2 AND THE ELECTRICAL SPECIFICATIONS CONSISTS OF THE CONTRACTOR PROVIDING ALL LABOR, EQUIPMENT, AND MATERIALS AND PERFORMING ALL OPERATIONS NECESSARY TO PROVIDE THE COMPLETE INSTALLATION OF THE ELECTRICAL SERVICE REQUIRED FOR THE McDUFFIE TERMINAL NEW FABRICATION BUILDING.
2. NEW FABRICATION BUILDING ELECTRICAL SERVICE: CONTRACTOR SHALL PROCURE, PROVIDE AND INSTALL THE ELECTRICAL EQUIPMENT AS LISTED BELOW:
 - 2.1. NEW 1500KVA TRANSFORMER
 - 2.2. NEW AUTOMATIC TRANSFER SWITCH (A.T.S.)
 - 2.3. EXISTING GENERATOR (TO BE RELOCATED FROM CURRENT LOCATION AT McDUFFIE TERMINAL)
 - 2.4. NEW SWITCHBOARD 'MP' INSTALLATION AND FEEDER FROM A.T.S ONLY (LOAD SIDE WIRING BY OTHERS)
 - 2.5. 23kV FEEDER FROM EXIST. 23kV SWITCHYARD SPARE LOAD INTERRUPTER SWITCH (LIS) TO NEW 1500KVA TRANSFORMER.
 - 2.6. EXISTING 23kV LIS FOR THE EXISTING WAREHOUSE BLDG TO BE DISCONNECTED AND REUSED FOR THE NEW ADMINISTRATION BLDG. POWER AFTER THE NEW FABRICATION BLDG. POWER IS CONNECTED.
 - 2.7. EXISTING 23kV SPARE LIS TO BE USED FOR NEW 23kV FEEDERS TO THE NEW FABRICATION BLDG.
 - 2.8. FABRICATION BLDG. POWER NEEDS TO BE WORKED AND INSTALLED BEFORE THE NEW ASSEMBLY BLDG. POWER IS REQUIRED.
 - 2.9. RECONDITIONING THE 23kV LOAD INTERRUPTER SWITCH INCLUDING THE UPGRADING OF FUSES.
 - 2.10. ALL NEW ELECTRICAL CONDUIT AND DUCTBANKS AS SHOWN ON PLAN DRAWING 4617-E2.
 - 2.11. ALL CONDUIT AND WIRING BETWEEN THE TRANSFORMER, A.T.S., GENERATOR AND SWITCHBOARD 'MP'.
 - 2.12. ALL GROUNDING AS SHOWN ON DWGS. 4617-E1 AND E2 AND AS PER NEC ARTICLE 250.
 - 2.13. SEE NOTE 4 THIS DRAWING FOR REQUIRED CONDUIT AND CABLE REPLACEMENT IF NECESSARY.
3. APA IS RESPONSIBLE FOR COMMUNICATIONS, WIFI ANTENNA AND SECURITY CAMERA INSTALLATION REQUIREMENTS.
4. ELECTRICAL CONTRACTOR TO MEGGER EXISTING #1/0 CABLES TO ACCEPTABLE MEGGING STANDARDS. IF MEGGERING CABLES RESULTS ARE NOT DETERMINED TO BE ACCEPTABLE THEN CONTRACTOR TO PULL NEW #1/0 CABLES FROM EXISTING LOAD INTERRUPTER SWITCH (LIS) TO THE NEW TRANSFORMER AT THE NEW FABRICATION BUILDING. PROVIDE NEW CONDUITS AS NEEDED TO REPAIR AND COMPLETE THE CONDUIT ROUTING FROM THE NEW FABRICATION BUILDING TRANSFORMER TO THE EXISTING LIS LOCATION. SPLICING OF CONDUCTORS IS ALLOWED IN MANHOLES USING APPROVED UNDERWATER/WATERPROOF SPLICE KITS ONLY.

GENERAL GROUNDING NOTES:

1. PROVIDE GROUNDING AND BONDING SYSTEMS IN STRICT ACCORDANCE WITH THE LATEST PUBLISHED EDITION OF THE N.E.C., EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE SPECIFIED HEREIN.
2. INTERCONNECTION OF NEUTRAL AND GROUND IS NOT PERMITTED EXCEPT AT SERVICE ENTRANCE EQUIPMENT.
3. INSTALL GROUNDING TO PERMIT SHORTEST AND MOST DIRECT PATH TO GROUND.
4. ALL ELECTRICAL CIRCUITS SHALL INCLUDE A SEPARATE GREEN, XHHW COPPER EQUIPMENT GROUNDING CONDUCTOR, SIZED PER THE REQUIREMENTS DEFINED IN THE LATEST EDITION OF THE NEC, TO GROUND THE ELECTRICAL EQUIPMENT AND POWER PANELS.
5. GREEN INSULATED GROUND WIRE SHALL BE RUN IN ALL FEEDER AND BRANCH CIRCUIT CONDUITS WITH PHASE AND/OR NEUTRAL CONDUCTORS.
6. GROUNDING CONNECTIONS ABOVE GRADE SHALL BE OF THE MECHANICAL TYPE. CONNECTIONS SHALL BE CLEANED TO BRIGHT METAL AND COATED WITH CORROSION INHIBITOR (T&B KOPR-SHIELD OR APPROVED EQUAL) PRIOR TO MAKE UP. CONNECTION SHALL THEN BE CLEANED AND SPRAYED WITH EPOXY ENAMEL AFTER MAKE UP.
7. GROUNDING CONNECTIONS UNDERGROUND SHALL BE EXOTHERMIC TYPE WELDS.
8. GROUND CONDUCTORS ROUTED THROUGH A CONCRETE SLAB OR WALL SHALL BE INSTALLED IN A 2" DIA. SCHEDULE 80 PVC CONDUIT SLEEVE. CONDUIT SLEEVE SHALL EXTEND 3" BEYOND THE FINISHED SURFACE. CONTRACTOR SHALL PROVIDE SUFFICIENT AMOUNT (LENGTHS) OF GROUND CONDUCTOR TO COMPLETE THE GROUNDING SYSTEM ABOVE GRADE WITHOUT SPLICES.

LEGEND



GROUND ROD DETAIL

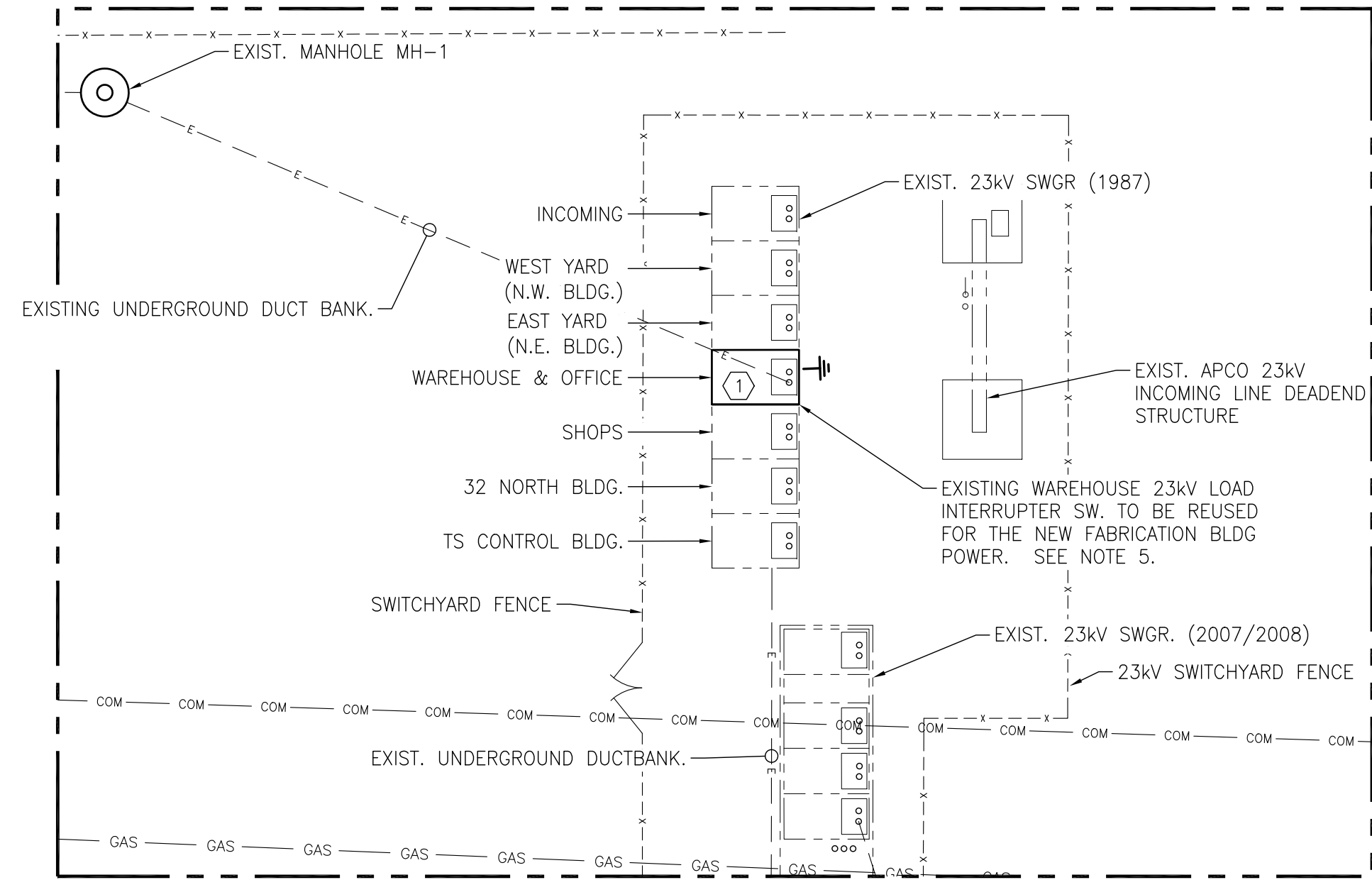
GENERAL NOTES:

1. SEE DWG. 4617-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4617-E2 FOR THE NEW FABRICATION BUILDING ELECTRICAL SERVICE PLAN.
2. ALL WORK AND WIRING SHALL COMPLY WITH OR EXCEED ALL NATIONAL ELECTRICAL CODE REQUIREMENTS, AND ALL CODE REQUIREMENTS OF THE STATE, CITY AND LOCAL ELECTRIC CODES.
3. ALL GROUNDING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE LATEST APPLICABLE RULES OF THE NATIONAL ELECTRIC CODE INCLUDING ANY STATE, COUNTY, CITY AND LOCAL CODE REQUIREMENTS.
4. LABELS AND TAGS FOR WIRING SHALL CARRY A REVERSE TAGGING IDENTIFICATION TO INDICATE THE EQUIPMENT, DEVICE, TERMINAL BLOCK AND TERMINAL NUMBER ON THE OPPOSITE END. REFERENCE ANSI/TIA STANDARD 606-B FOR GENERIC LABELING PRACTICES THAT APPLIES TO ALL TYPES OF PREMISES.
5. CONDUIT AND WIRING: CONDUIT ROUTING ON PLAN DRAWINGS IS DIAGRAMMATIC AND SHALL BE USED FOR REFERENCE ONLY. CONTRACTOR TO VERIFY THE EXISTING CONDITIONS OF EXISTING CONDUITS FOR OBSTRUCTIONS WITHIN. DIFFERENT VOLTAGES OF POWER AND CONTROL SYSTEMS SHALL BE ROUTED IN SEPARATE CONDUITS.
6. THE CONTRACTOR SHALL PERFORM POINT TO POINT CONTINUITY CHECKS OF ALL HARDWIRED CONNECTIONS PRIOR TO START-UP.
7. GROUNDING OF FIELD ENCLOSURES SHALL BE GROUNDED TO THE NEAREST GROUNDED STEEL STRUCTURE OR GROUNDING GRID WITH A NO. 2# BARE COPPER WIRE UNLESS NOTED OTHERWISE. CONDUIT SHALL NOT BE USED AS A RACEWAY TO GROUND ENCLOSURES. CONTRACTOR TO FOLLOW NEC GUIDELINES FOR SUITABLE GROUNDING METHODS.
8. CONDUIT:
 - 8.1. UNDERGROUND CONDUIT RUNS SHALL BE SCHED. 40 PVC
 - 8.2. UNDERGROUND ELBOWS SHALL BE RIGID GALV. STEEL.
 - 8.3. EXPOSED CONDUIT SHALL BE RIGID GALV. STEEL.
 - 8.4. EXPOSED CONDUIT FITTINGS SHALL BE GALVANIZED STEEL.
 - 8.5. CONDUIT ENTERING EQUIPMENT SHALL BE BONDED VIA COPPER GROUND BUSHING.
 - 8.6. DRAIN BREATHERS TO BE INSTALLED AT LOW POINTS IN CONDUIT RUNS.
 - 8.7. 90° SWEEPS SHALL BE REQUIRED FOR ALL COMMUNICATIONS CONDUITS.
9. MANHOLE CABLE INSTALLATION, CONTRACTOR SHALL INSTALL ALL CABLES IN MANHOLES & HANDHOLES ALONG THE WALLS USING CABLE SUPPORTS. CABLES SHALL ALWAYS TAKE THE LONGEST ROUTE AROUND THE MANHOLES AND HANDHOLES TO ALLOW FOR SLACK FOR FUTURE.
10. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL FIELD VERIFY WITH APA THE LOCATIONS OF ANY POSSIBLE UNDERGROUND UTILITIES THAT ARE NOT PRESENTLY SHOWN ON THE CONTRACT DRAWINGS. THE UNDERGROUND UTILITIES THAT ARE SHOWN ON THE CONTRACT DRAWINGS ARE APPROXIMATE LOCATIONS ONLY. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE EXACT LOCATIONS. THE CONTRACTOR SHALL STOP ALL WORK IF ANY UNDERGROUND UTILITY IS DISCOVERED DURING EXCAVATION THAT WAS NOT PREVIOUSLY IDENTIFIED UNTIL APPROVED BY THE APA REPRESENTATIVE.
11. EXISTING CONDUIT AND STUB-UP LOCATIONS HAVE BEEN SHOWN IN GENERAL LOCATIONS IN RESPECT TO ON-SITE FIELD INVESTIGATIONS AND AVAILABLE AS-BUILT DRAWINGS RECEIVED FROM APA. THE CONTRACTOR SHALL VERIFY ALL CONDUIT SIZES, ROUTING AND STUB-UP LOCATIONS PRIOR TO PROJECT BID AND EXECUTION. CONTRACTOR TO REPORT ANY DISCREPANCIES WITH PREVIOUS AS-BUILT DRAWINGS TO THE APA PROJECT MANAGER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT SPARE CONDUITS AND SPACE CURRENTLY EXIST AS SHOWN ON THE PLAN DRAWINGS TO PERFORM THIS INSTALLATION PRIOR TO CONSTRUCTION.
12. INSTALLATION OF ALL ELECTRICAL EQUIPMENT SHALL BE COORDINATED WITH THE ELECTRICAL EQUIPMENT MANUFACTURER. ANCHOR BOLTS SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED AS INSTRUCTED PER MANUFACTURER'S SPECIFICATIONS. MAINTAIN MINIMUM REQUIRED CLEARANCES PER MANUFACTURER'S SPECIFICATIONS.
13. AS-BUILTS: CONTRACTOR TO PROVIDE AS-BUILT DRAWINGS AT THE END OF THE PROJECT COMPLETION FOR MAINTENANCE TO USE FOR EQUIPMENT REPAIRS AND TROUBLE SHOOTING. ALL TERMINATION DRAWINGS SHALL BE UPDATED AT THE END OF THE PROJECT TO REFLECT ACTUAL INSTALLATION AND TERMINATION OF ALL WIRING.
14. EXISTING AS-BUILT DRAWINGS ARE FOR GENERAL REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ANY REFERENCED EXISTING AS-BUILT INFORMATION INCLUDING, BUT NOT LIMITED TO, THE UNDERGROUND UTILITIES, BURIED CONDUIT AND DUCTBANKS AS REQUIRED FOR CONSTRUCTION INSTALLATION PURPOSES.
15. DUCTBANKS:
 - 15.1. PLASTIC DUCT SPACERS SHALL BE USED TO MAINTAIN DISTANCE BETWEEN CONDUITS THAT HAVE BEEN CALLED OUT ON THE DWG. THESE SPACERS SHALL BE PLACED PER MANUFACTURER'S INSTRUCTIONS, BUT NOT LESS THAN 2 SPACER ASSEMBLIES PER 10FT OF CONDUIT ASSEMBLY.
 - 15.2. PROVIDE GROUND WIRE SIZE PER NEC REQUIREMENTS FOR ALL CIRCUITS. USE OF RACEWAYS AS GROUNDING IS NOT ACCEPTABLE.
 - 15.3. ALL ELECTRICAL DUCTBANKS SHALL USE 3000 PSI RED DYE CONCRETE.
 - 15.4. DUCTBANKS SHALL BE A MIN. OF 36" BELOW FINISHED GRADE. DUCTBANKS SHALL BE SLOPED AT 0.5% BACK TO MANHOLES TO INSURE PROPER DRAINAGE OF CONDUITS.
 - 15.5. DEPTHS TO THE TOP OF DUCTBANKS GREATER THEN 4'-0" FOR DISTANCES OF SUBSTANTIAL LENGTH SHALL BE APPROVED BY THE APA REPRESENTATIVE PRIOR TO INSTALLATION. A MINIMUM SEPARATION OF 2 1/2" IS REQUIRED BETWEEN CONDUITS IN DUCTBANKS.
 - 15.6. COORDINATE DUCTBANK AND UTILITY CROSSING LOCATIONS WITH UTILITY PLANS FOR CLEARANCES AND DEPTHS.

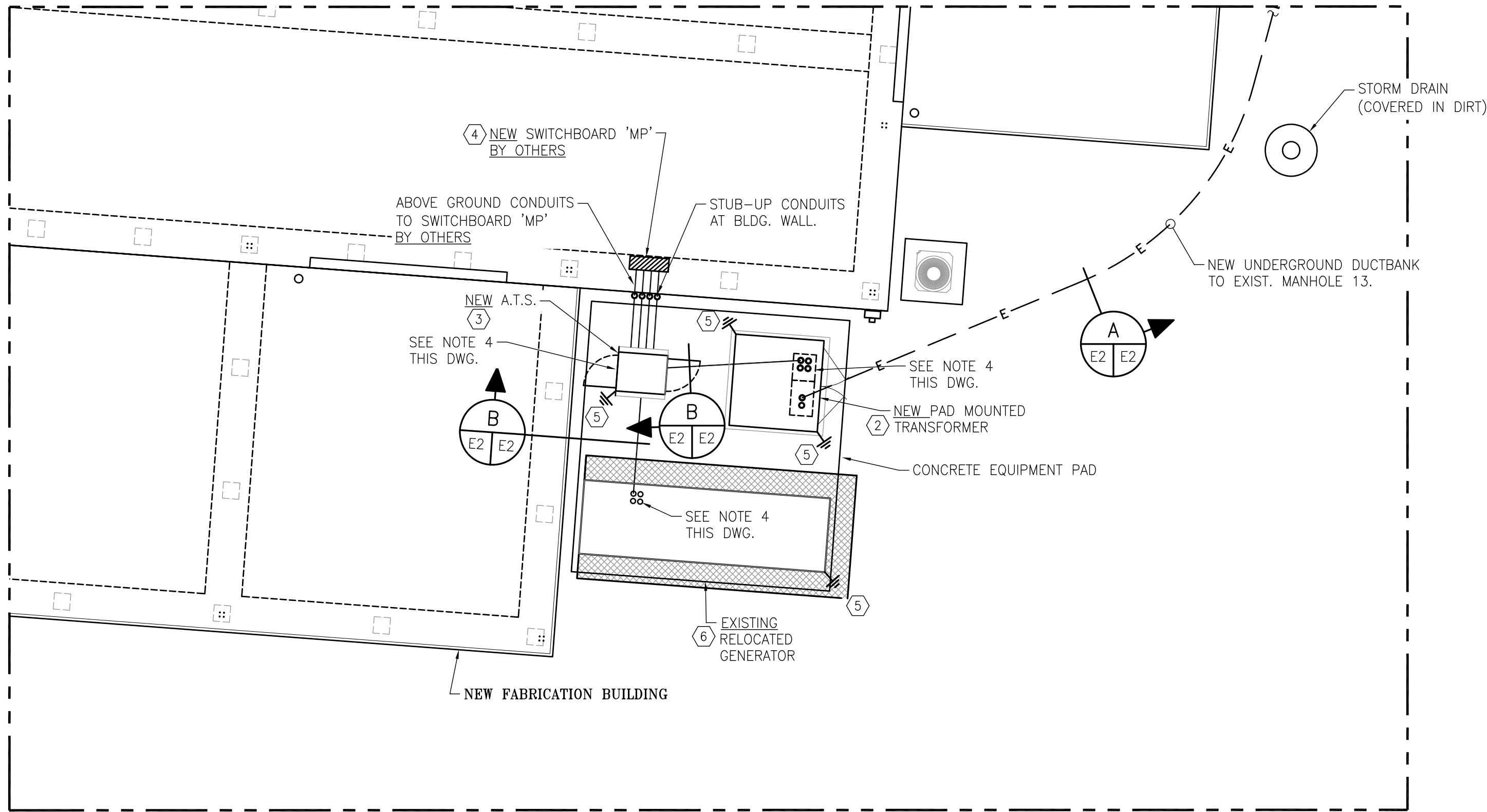
ABBREVIATIONS

LIS	LOAD INTERRUPTER SWITCH
MP	MAIN POWER PANEL
A.T.S.	AUTOMATIC TRANSFER SWITCH

thompson ENGINEERING							ALABAMA PORT AUTHORITY PORT OF MOBILE		
CLIENT DWG NO:									
APTIM PORT SERVICES, LLC							McDUFFIE TERMINAL IMPROVEMENTS NEW FABRICATION SHOP PACKAGE ELECTRICAL OVERALL SITE PLAN & NOTES		
THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.							FOR: ALABAMA PORT AUTHORITY		
DRAWN: WMB CK'D: JEJ APPD: RSG DATE: 9-8-25 SCALE: 1"=100'							PROJECT NO: 4617	DWG NO: E1	REV: B
NOTES									
1876-E2 McDUFFIE TERMINALS 2007/08 EXP-PKG 2 ELECTRICAL ENLARGED VIEW OF SUBSTATION & NEW DUCT BANK									
1876-E3 McDUFFIE TERMINALS 2007/08 EXP-PKG 2 ELECTRICAL UNDERGROUND DUCT BANK DETAILS									
4617-E-300 FABRICATION BUILDING ELECTRICAL RISER DIAGRAM AND DETAILS									
							B	ISSUED FOR BID	WMB JEJ RSG 01-14-26
							A	100% DESIGN REVIEW	WMB JEJ RSG 09-09-25
REFERENCE DRAWINGS							NO.	REVISION	DRAWN CK'D APPD DATE



ENLARGED POWER PLAN @ 23kV SWITCHYARD
N.T.S.



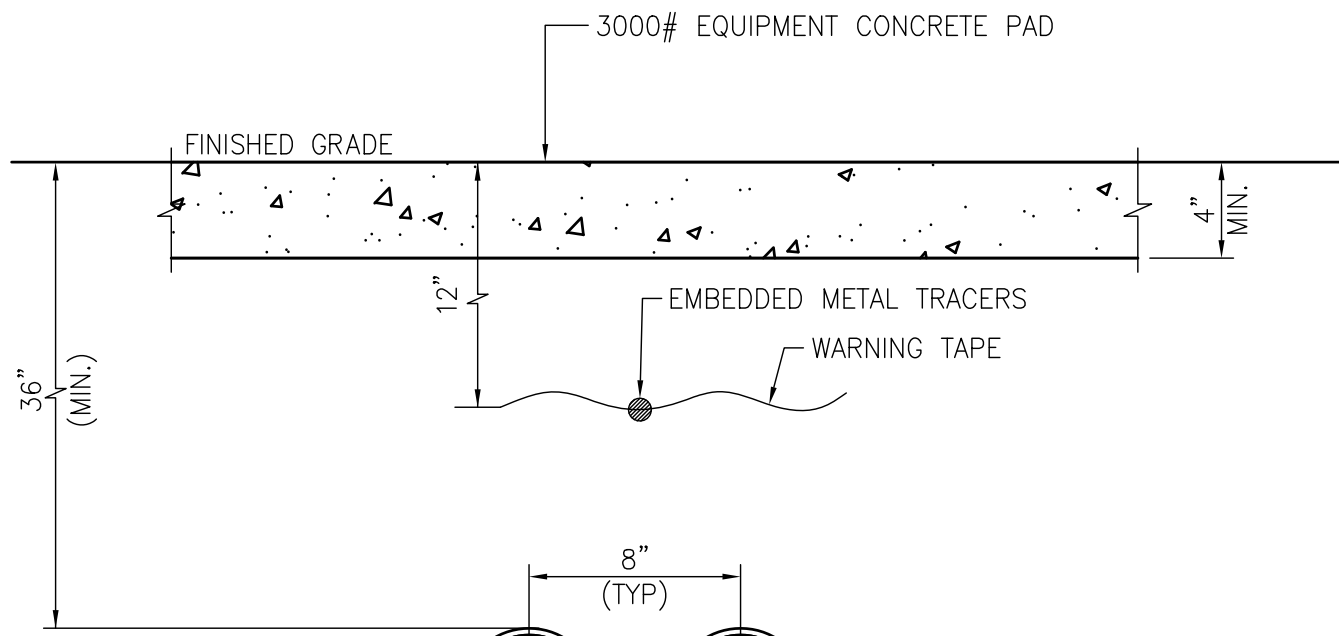
ENLARGED POWER PLAN @ FABRICATION BLDG.
N.T.S.

CONDUIT & CABLE SCHEDULE					
DUCT BANK SECTION	CONDUCTORS DESCRIPTIONS	CONDUIT SIZE	LENGTH ESTIMATE (FT)	ROUTING	REMARKS/COMMENTS
A	3-#1/0 MV105, 25KV, TYPE XLPE W/GND	5"	1045'	MEW FABRICATION BLDG.23KV XFMR TO EXIST. MANHOLE MH-13. SPlice TO EXISTING CONDUCTORS FROM MAIN 25KV SWITCHGEAR EXISTING LIS SWITCH	EXISTING CABLES ARE ROUTED THRU EXIST. MANHOLES 1, 2, 10, 11, 12 & 13
B	SEE DWG. 4617 E-300 FOR CONDUCTOR DETAILS	5"	50'	TRANSFORMER TO ATS SWITCH	NEW CABLES ROUTED IN NEW DUCT BANK
B	SEE DWG. 4617 E-300 FOR CONDUCTOR DETAILS	5"	60'	EMERGENCY GENERATOR TO ATS SWITCH	NEW CABLES ROUTED IN NEW DUCT BANK
	SEE DWG. 4617 E-300 FOR CONDUCTOR DETAILS	4"	50'	ATS SWITCH TO SWITCHBOARD 'MP'	CONDUIT AND CABLES BY OTHERS

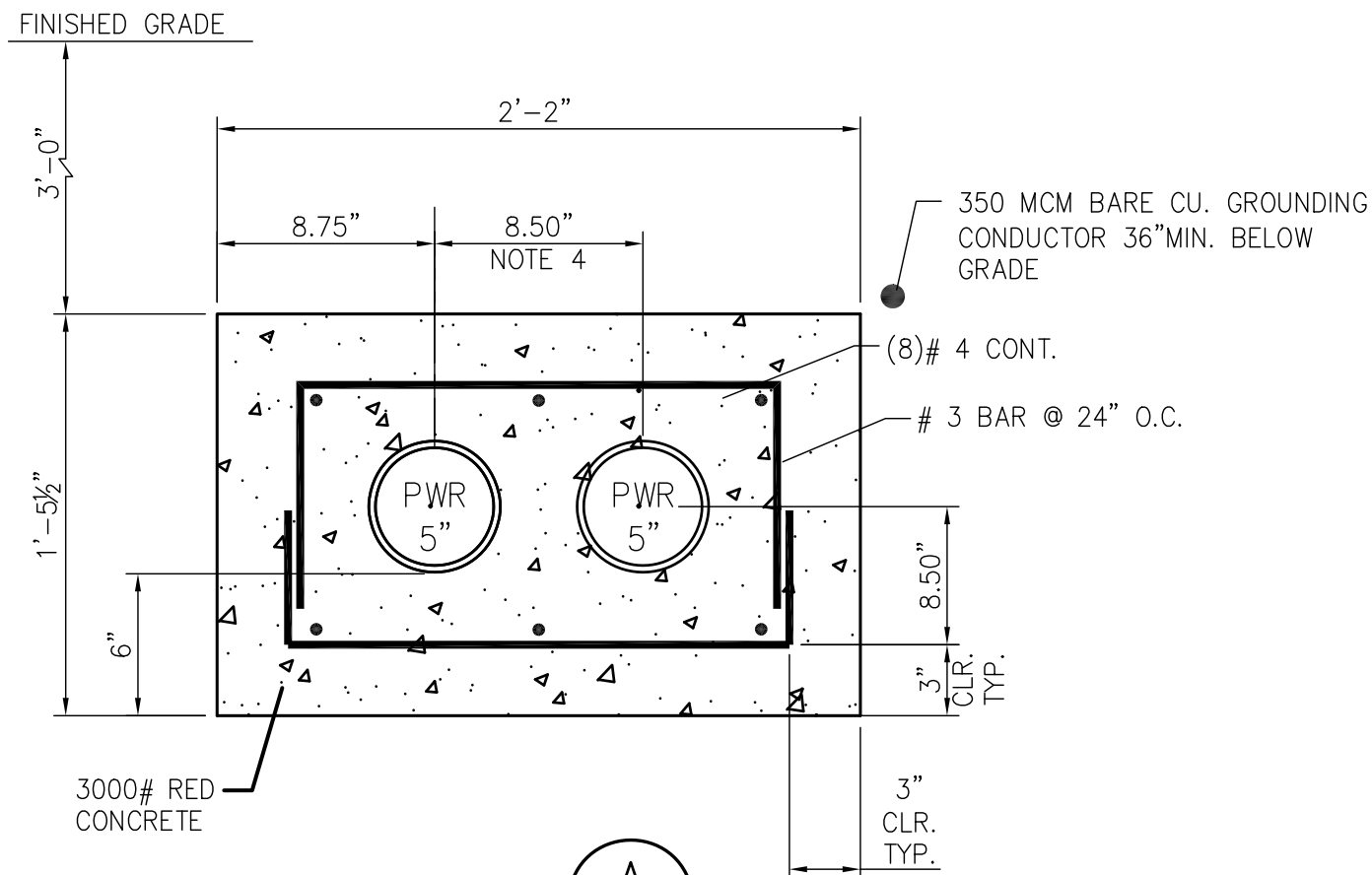
MAJOR ELECTRICAL EQUIPMENT LIST		
MARK	QTY	DESCRIPTION
①	01	EXISTING 23KV FUSED LOAD INTERRUPTER SWITCH (LIS) (REPLACE EXISTING FUSES WITH NEW FUSES.)
②	01	PAD MOUNTED COMPARTMENTAL TRANSFORMER, 1500KVA, 22.9KV-480/277V, 3#4W, EATON'S COOPER POWER SERIES OR APPROVED EQUAL.
③	01	AUTOMATIC TRANSFER SWITCH (ATS), 1600A, ASCO SERIES 300 OR APPROVED EQUAL
④	01	SWITCHBOARD 'MP' 1600A, 3#4W, 480/277V (SUPPLIED AND INSTALLED BY OTHERS)
⑤	A/R	COPPER GROUND ROD, 3/4"Ø X 10 FT. LONG. MINIMUM 2/0 CU GREEN INSULATED GROUND REQUIRED UNLESS NOTED OTHERWISE ON THIS DRAWING. SEE NOTE 3 THIS DWG.
⑥	01	EXISTING GENERATOR - RELOCATE FROM EXISTING LOCATION AT McDUFFIE TERMINAL

NOTES

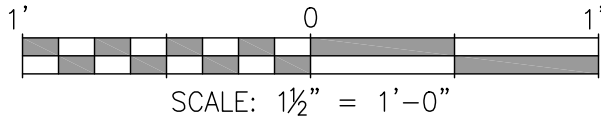
- SEE DWG. 4617-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4617-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL GROUNDING NOTES, GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
- DUCT BANK SHALL BE ENCASED IN RED DYE CONCRETE WITH AT LEAST THREE INCHES OF CONCRETE AT THE TOP AND BOTTOM AND THREE INCHES OF CONCRETE ON EACH SIDE. A HORIZONTAL AND VERTICAL SEPARATION BETWEEN DUCTS OF 3" INCHES SHALL BE MAINTAINED BY INSTALLING SPACERS WITH HORIZONTAL AND VERTICAL LOCKING ON INTERVALS OF 8 TO 10 FEET.
- ALL EQUIPMENT GROUNDS TO BE BONDED TO THE EXISTING SWITCHYARD GROUNDING GRID. CONTRACTOR TO REFERENCE THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE ARTICLE 250 FOR SWITCHGEAR, TRANSFORMER AND GENERATOR GROUNDING REQUIREMENTS AND GUIDELINES. CONTRACTOR TO REFERENCE NFPA-780 FOR LIGHTNING PROTECTION REQUIREMENTS AND GUIDELINES.
- CONDUIT STUB-UP LOCATIONS: REFERENCE CIVIL/STRUCTURAL DRAWINGS AND ELECTRICAL EQUIPMENT SHOP DRAWINGS FOR CONDUIT STUB-UP LOCATIONS BEFORE THE INSTALLATION OF UNDERGROUND DUCT BANKS AND CONDUITS.
- EXISTING 23KV LOAD INTERRUPTER SWITCH (LIS) AND FEEDER CABLE FOR THE EXISTING WAREHOUSE BLDG TO BE REUSED FOR THE NEW FABRICATION BLDG. POWER. SEE DRAWING 4617-E1 SCOPE OF WORK NOTE 4 FOR ELECTRICAL SCOPE OF WORK.



SECTION B-B
1-1/2"=1'-0"



SECTION A-A
1-1/2"=1'-0"



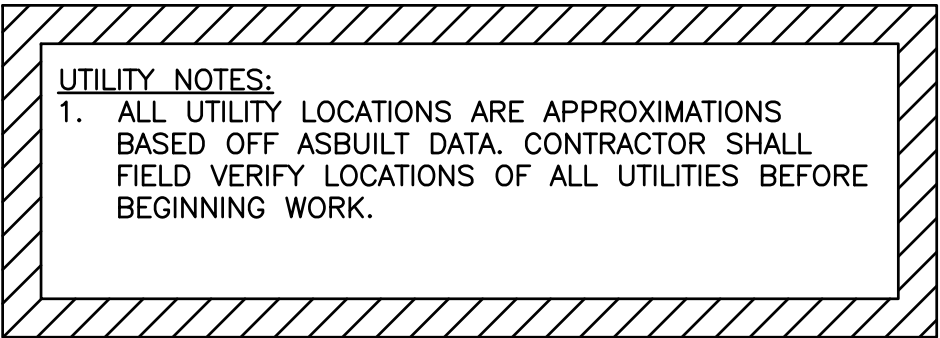
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CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS
NEW FABRICATION BUILDING PACKAGE
ELECTRICAL SERVICE PLAN & DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617 DWG NO: E2 REV: B



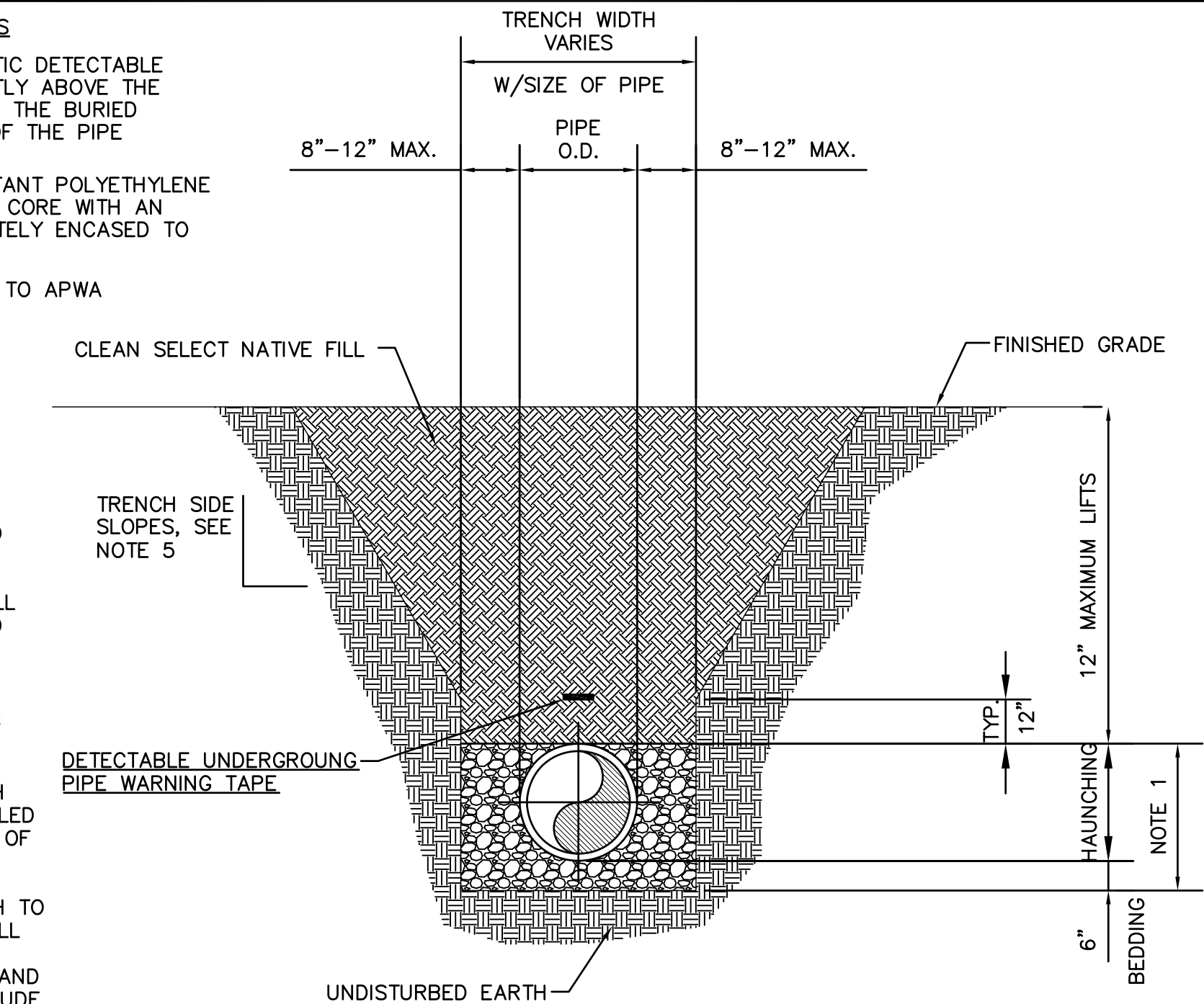
DETECTABLE UNDERGROUND PIPE WARNING TAPES

1. ALL BURIED PIPING SHALL INCLUDE A MAGNETIC DETECTABLE UNDERGROUND WARNING TAPE PLACED DIRECTLY ABOVE THE PIPE CENTERLINE FOR THE FULL DISTANCE OF THE BURIED PIPE. THE TAPE SHALL BE PLACED ON TOP OF THE PIPE ZONE BACKFILL.
2. THE TAPE SHALL BE ACID AND ALKALI RESISTANT POLYETHYLENE CONSTRUCTED OF A 4.5 MIL SOLID ALUMINUM CORE WITH AN IMPRINTED WARNING LEGEND THAT IS COMPLETELY ENCASED TO PREVENT INK RUB-OFF.
3. THE TAPES SHALL BE 6" WIDE AND CONFORM TO APWA UNIFORM COLOR CODES.

NOTES:

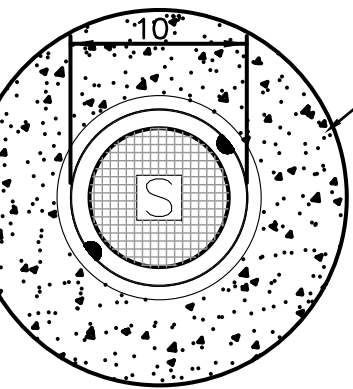
1. PIPE BEDDING : #57 STONE OR BEDDING ROCK COMPACTED TO 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY AS PER AASHTO T-180.

PIPE HAUNCHING: #57 STONE OR ENGINEERED FILL COMPACTED TO 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY AS PER AASHTO T-180.
2. BACKFILL: FILL COMPACTED TO 95 T-180. (98% DENSITY REQUIRED UNDER PAVEMENT, DRIVEWAYS AND STRUCTURES.)
3. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF FLOW.
4. CONTRACTOR SHALL EXCAVATE REQUIRED TRENCH TO PREVENT CAVE-IN AND PROVIDE TRENCH SIDEWALL STABILITY. TRENCH EXCAVATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH OSHA AND OTHER GOVERNING SAFETY REGULATIONS TO INCLUDE ALL DEWATERING, SHEETING, AND SHORING NECESSARY TO INSTALL SEWER.

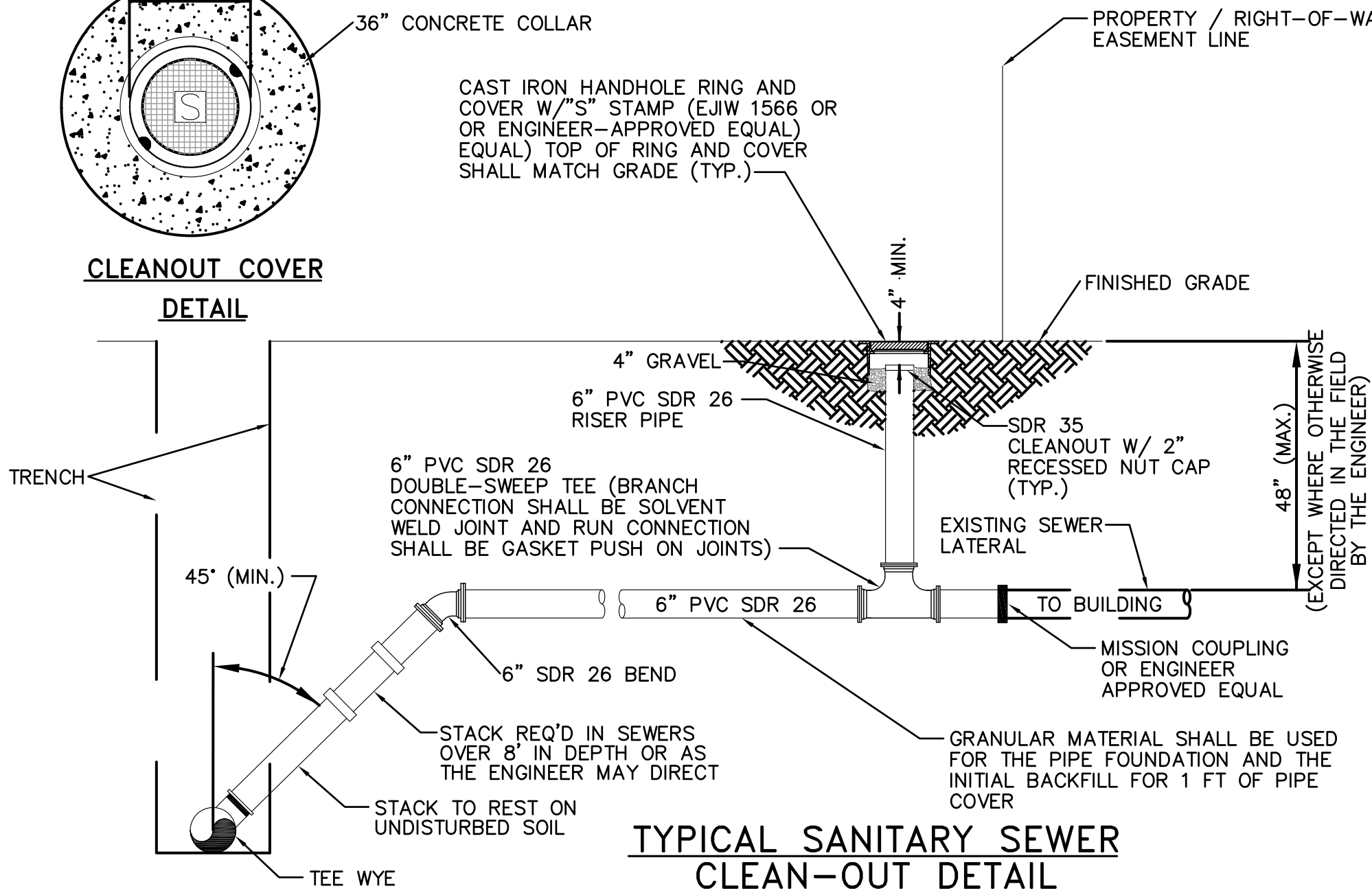


TYPICAL WATER AND SEWER TRENCH DETAIL

N.T.S.

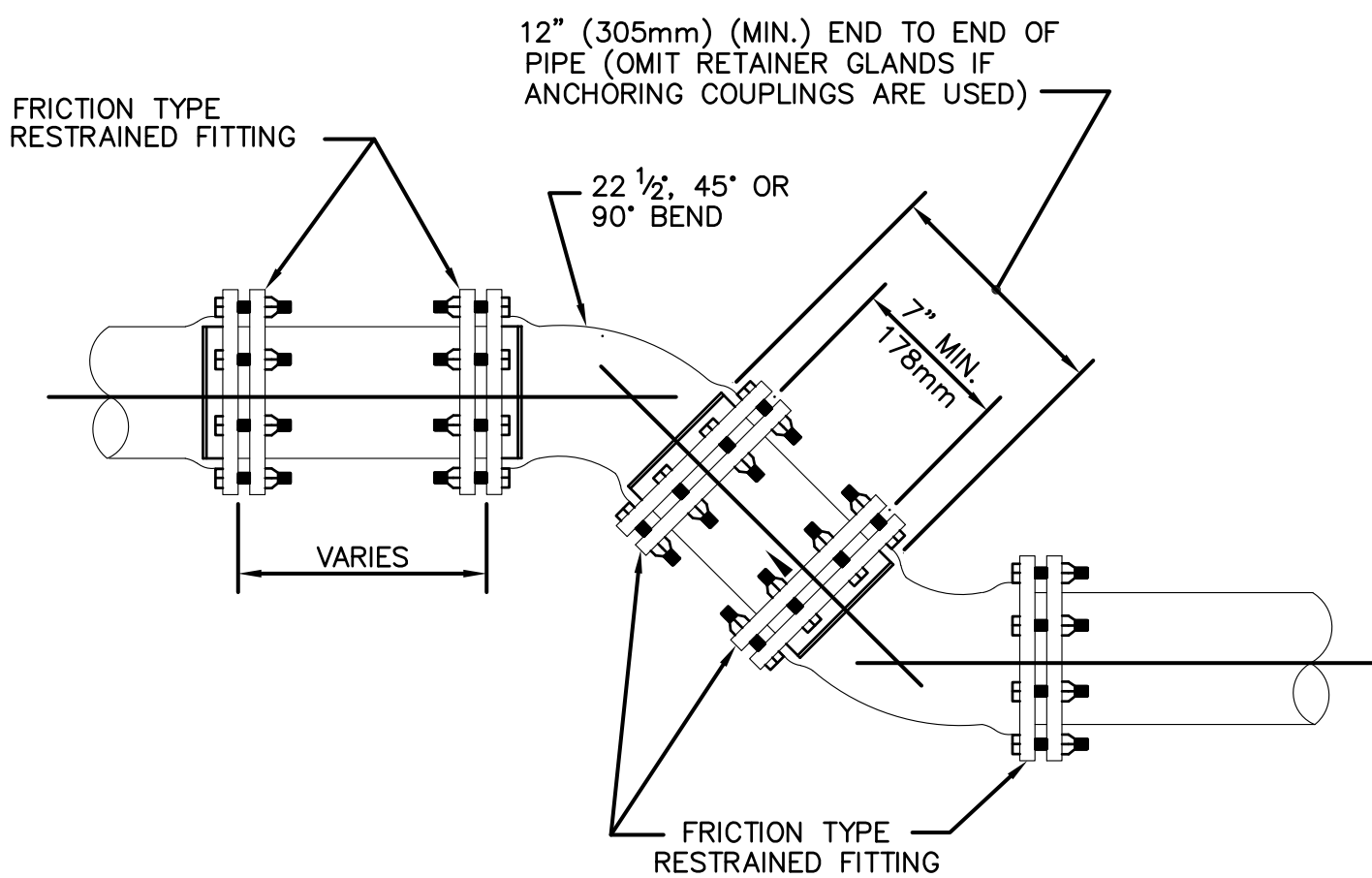


CLEANOUT COVER DETAIL

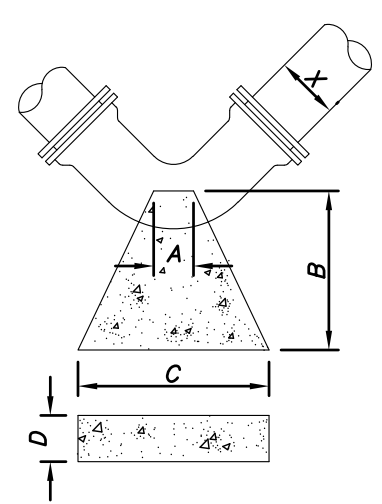


TYPICAL SANITARY SEWER CLEAN-OUT DETAIL

N.T.S.



ANCHORING OF VERTICAL OR HORIZONTAL BENDS WHERE THRUST BLOCKS ARE NOT DESIRED



BLOCKING DIMENSIONS				
X	A	B	C	D
TEES 16" RUN				
16	12	3'-0"	3'-8"	3'-8"
12	10	2'-6"	2'-9"	2'-9"
10	10	2'-6"	2'-6"	2'-3"
8	10	2'-0"	1'-9"	2'-0"
6	8	2'-0"	1'-4"	1'-6"
TEES 12" RUN				
12	10	2'-6"	2'-9"	2'-9"
10	10	2'-6"	2'-6"	2'-3"
8	10	2'-0"	1'-9"	2'-0"
6	8	2'-0"	1'-4"	1'-6"
TEES 10" RUN				
10	10	2'-6"	2'-6"	2'-3"
8	10	2'-0"	1'-9"	2'-0"
6	8	2'-0"	1'-4"	1'-6"

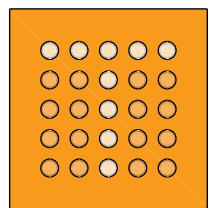
BLOCKING DIMENSIONS				
X	A	B	C	D
90° BENDS				
16	14	3'-0"	4'-6"	4'-3"
12	12	2'-6"	3'-4"	3'-4"
10	8	2'-6"	3'-0"	2'-6"
8	8	2'-0"	2'-6"	2'-0"
6	6	2'-0"	1'-10"	1'-6"
45° BENDS				
16	14	3'-0"	3'-6"	4'-3"
12	12	2'-6"	2'-6"	3'-4"
10	8	2'-6"	2'-3"	2'-6"
8	8	2'-0"	1'-8"	2'-0"
6	6	2'-0"	1'-3"	1'-6"
22.5° BENDS				
16	12	2'-6"	2'-4"	2'-4"
12	8	2'-0"	1'-9"	1'-9"
10	8	2'-0"	1'-6"	1'-6"
8	6	2'-0"	1'-3"	1'-3"
6	6	1'-6"	1'-0"	1'-0"
11.25° BENDS				
16	8	2'-0"	1'-8"	1'-8"
12	6	2'-0"	1'-3"	1'-3"
10	6	1'-6"	1'-0"	1'-0"
8	6	1'-6"	1'-0"	1'-0"
6	6	1'-6"	1'-0"	1'-0"
TEES 8" RUN				
8	10	2'-0"	1'-9"	2'-0"
6	8	2'-0"	1'-4"	1'-6"
TEES 6" RUN				
6	8	2'-0"	1'-4"	1'-6"

NOTES:

1. ALL CONCRETE SHALL BE 3500 PSI.

CONCRETE THRUST BLOCKING

N.T.S.



thompson
ENGINEERING



ALABAMA
PORT AUTHORITY
PORT OF MOBILE

CLIENT DWG NO:

McDUFFIE TERMINAL IMPROVEMENTS

NEW FABRICATION SHOP PACKAGE

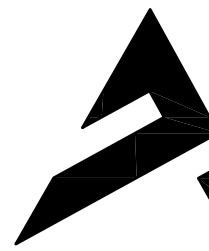
UTILITY DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4617

DWG NO: C101

REV: B



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DRAWN: CNL

CK'D: FEL

APPD: FEL

DATE: 9/9/25

SCALE: AS NOTED

NOTES

B

ISSUED FOR BID

CNL

FEL

FEL

1/14/26

A

100% DESIGN REVIEW

CNL

FEL

FEL

9/9/25

REFERENCE DRAWINGS

NO.

REVISION

DRAWN

CK'D

APPD

DATE