

SARACENNIA FIRE STATION JACKSON COUNTY

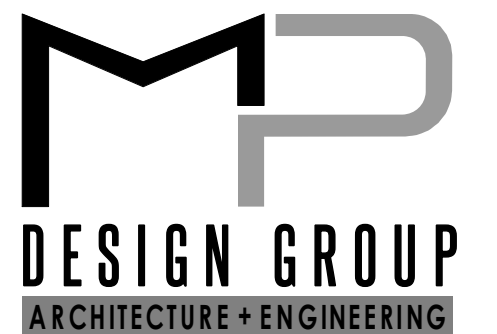
SARACENNIA RD, MOSS POINT, MS
39562

REV 0: ISSUED FOR
CONSTRUCTION



JACKSON COUNTY BOARD OF SUPERVISORS:

- BARRY CUMBEST - DISTRICT 1
- ENNIT MORRIS - DISTRICT 2
- KEN TAYLOR - DISTRICT 3
- TROY ROSS - DISTRICT 4
- RANDY BOASARGE - DISTRICT 5



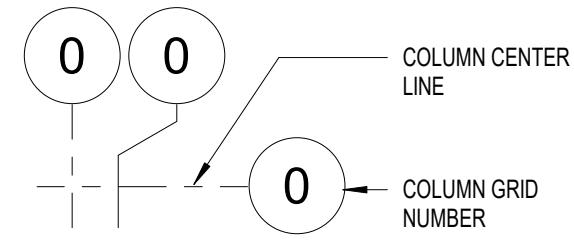
"Designed to Build"

918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

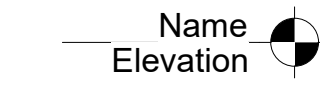
David J. Machado, PE
Brad P. Patano, PE
Gerrod W. Kilpatrick, PE
Bradford A. Jones, AIA

GENERAL GRAPHIC LEGEND

SYMBOL-COLUMN GRID



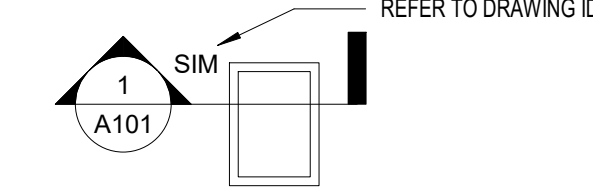
SYMBOL-FINISHED FLOOR ELEVATION



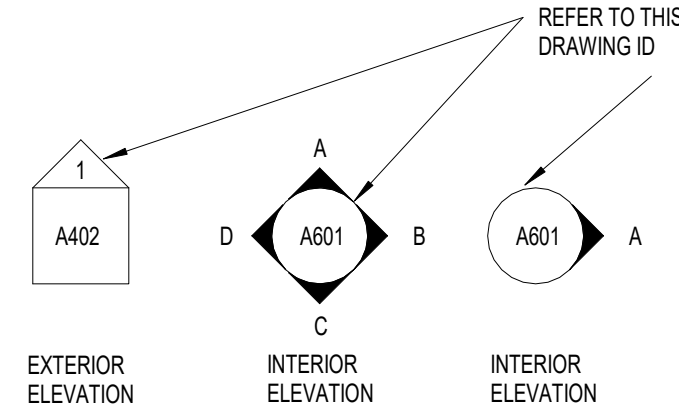
SYMBOL-SPOT ELEVATION



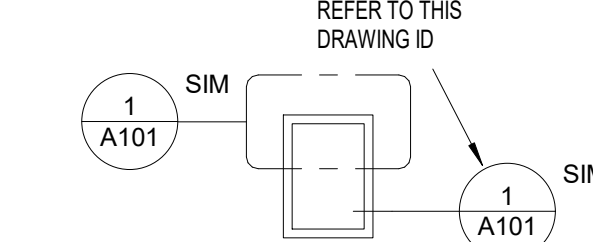
SYMBOL-BUILDING SECTION / WALL SECTION



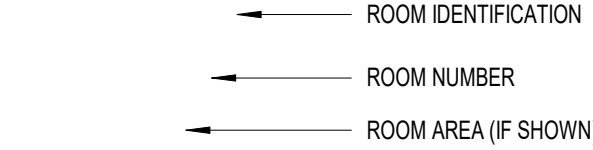
SYMBOL-EXTERIOR ELEVATION / INTERIOR ELEVATION



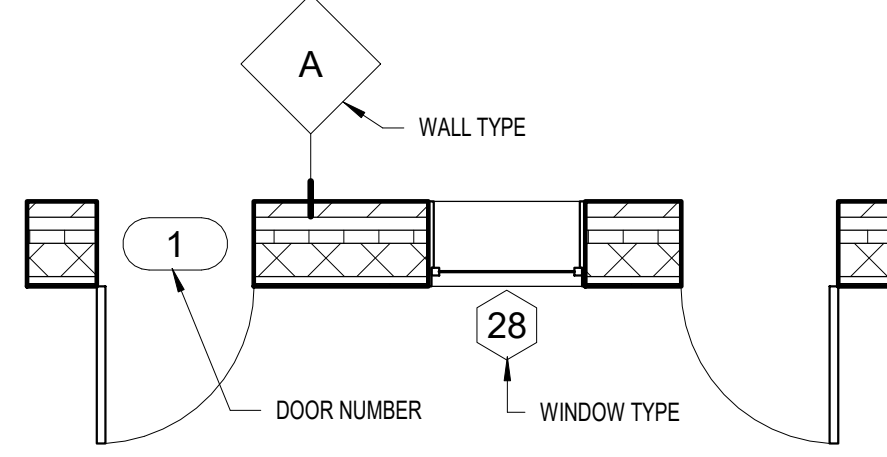
SYMBOL-DETAIL CALLOUT



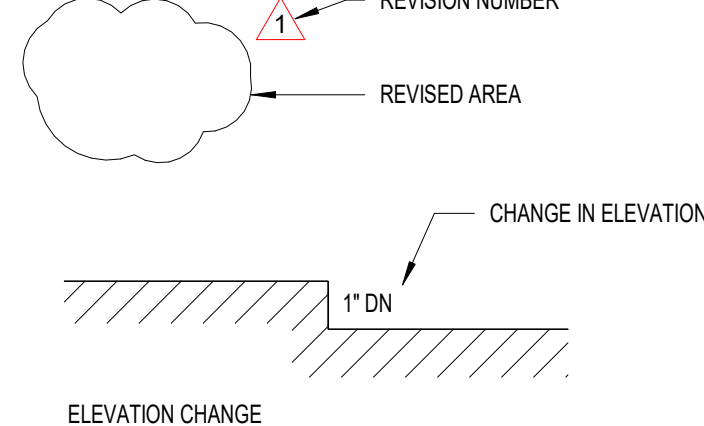
SYMBOL-ROOM TAG



SYMBOL-WALL / DOOR / WINDOW



SYMBOL-REVISIONS



ABBREVIATIONS INDEX

A		E (CONT)		L		R (CONT)	
& @ /	AND AT ANGLE	EJ ELEC E/ELEV	EXPANSION JOINT ELECTRICAL ELEVATION	LAM LAV LT	LAMINATE LAVATORY LIGHT	RET RM R.O RTU	RETURN ROOM ROUGH OPENING ROOF TOP UNIT
A/C ACT ADDTL	AIR CONDITIONING ACOUSTICAL CEILING TILE ADDITIONAL	EMBED ENGR ENT	EMBEDDED ENGINEER ENTERING/ ENTRY EQUAL	M		S	
ADJ AF AFD AFF ALUM ALT APPROX ARCH ASF	ADJUSTABLE ACCESS FLOORING AUTOMATIC FIRE DAMPER ABOVE FINISH FLOOR ALUMINUM ALTERNATE APPROXIMATE ARCHITECT ALUMINUM STORE FRONT	EQ EQUIP ES EXH EXPAN EXT	EQUIPMENT EXPOSED STRUCTURE EXHAUST EXPANSION EXTERIOR				
B		F		N		T	
BTWN BIT BJ BLDG BLK BLKG BLT BM BO BR BTWN	BETWEEN BITUMEN BAR JOIST BUILDING BLOCK BLOCKING BUILT BEAM BOTTOM OF BACKER ROD BETWEEN	FA FAC FD FAR FE FEC	FIRE ALARM FIRE ALARM CABINET FLOOR DRAIN FIRE ALARM REMOTE FIRE EXTINGUISHER CABINET	MT MTD MTL	METAL THRESHOLD MOUNTED METAL	SA SAN SAFM	SUPPLY AIR SANITARY SELF ADHERING FLASHING MEMBRANE
C		G		O		U	
CAP C/C CCTV	CAPACITY CENTER TO CENTER CLOSED CIRCUIT TELEVISION	GA GALV GC	GAUGE GALVANIZED GENERAL CONTRACTOR	OA OC OCEW OH OPNG OPP OZ	OUTSIDE AIR ON CENTER ON CENTER EACH WAY OVERHEAD OPENING OPPOSITE OUNCE	T&B TBM TEL T&G THRESH TLT T.O. T.O.B. T.O.S.	TOP & BOTTOM TEMPORARY BENCH MARK TELEPHONE TONGUE & GROOVE THRESHOLD TOILET TOP OF TOP OF BEAM TOP OF STRUCTURE TOILET PAPER HOLDER
CJ CL CLG CLO CLR CMU	CONTROL JOINT CLEAR CEILING CLOSET COLOR CONCRETE MASONRY	GF CMU GL GPM GYP BD	GROUND FACE CMU GLASS GALLONS PER MIN. GYPSUM BOARD	P		V	
CONTR COL COMP		H		Q		W	
CONC COND CONSTR CONT CONG CPT CT CTB CTR	CONTRACTOR COLUMN COMPRESSION OR COMPRESSED CONCRETE CONDENSATE CONSTRUCTION CONTINUOUS COUPLING CARPET CERAMIC TILE CERAMIC TILE BASE CENTERS CENTER COLD WATER	HB HC HDWR HM HP HORIZ HR HT HW HVAC	HOSE BIB HANDICAP HANDWARE HOLLOW METAL HIGH POINT HORIZONTAL HOUR HEIGHT HOT WATER HEATING VENTILATION, AIR CONDITIONING	±, +, - PT PARTN PRE-FIN PL PPL PLAM PLYWD PNL PP PRE FAB PROJ PSF PTD	PLUS OR MINUS PAINT PARTITION PRE FINISH(ED) PLATE PROPERTY LINE PLASTIC LAMINATE PLYWOOD PANEL POWER POLE PAIR PREFABRICATED PROJECTION POUNDS/SQUARE INCH PAPER TOWEL DISPENSER	VAR VD VERT VCT VIF VTR VWC	VARIABLES VOLUME DAMPER VERTICAL VINYL COMPOSITION TILE VERIFY IN FIELD VENT-THRU-ROOF VINYL WALL COVERING
D		I		R		W	
DIA / DB DBL DEFL DEPT DET/DTL DISP DK DN DP DS DWG(S)	DIAMETER DRY BULB DOUBLE DEFLECTION DEPARTMENT DETAIL DISPENSER DARK DOWN DAMP PROOFING DOWNSPOUT DRAWING(S)	IC INSUL INT INV	INTERCOM INSULATION INTERIOR INVERT	RA RB RD RE REF REFR REIN REQ'D	RETURN AIR RUBBER BASE ROOF DRAIN REFER TO... REFERENCE REFRIGERATOR REINFORCED REQUIRED	W W/ W/O WD WG WGVP WH WP WPMB	WIDE, WITH WITH WITHOUT WOOD WATER GAUGE WIRE GLASS VISION PANEL WATER HEATER WATERPROOFING WATERPROOFING MEMBRANE
E		K		R		W	
EA EDF EF EFC	EACH ELECTRONIC DRINKING FOUNTAIN EXHAUST FAN EACH FACE	LAM LAT LAV LF LG LP	LAMINATE(D) LAY-IN ACOUSTICAL CEILING LAVATORY LINEAR FEET LEG LIGHT POLE	R		W	

PROJECT MAP



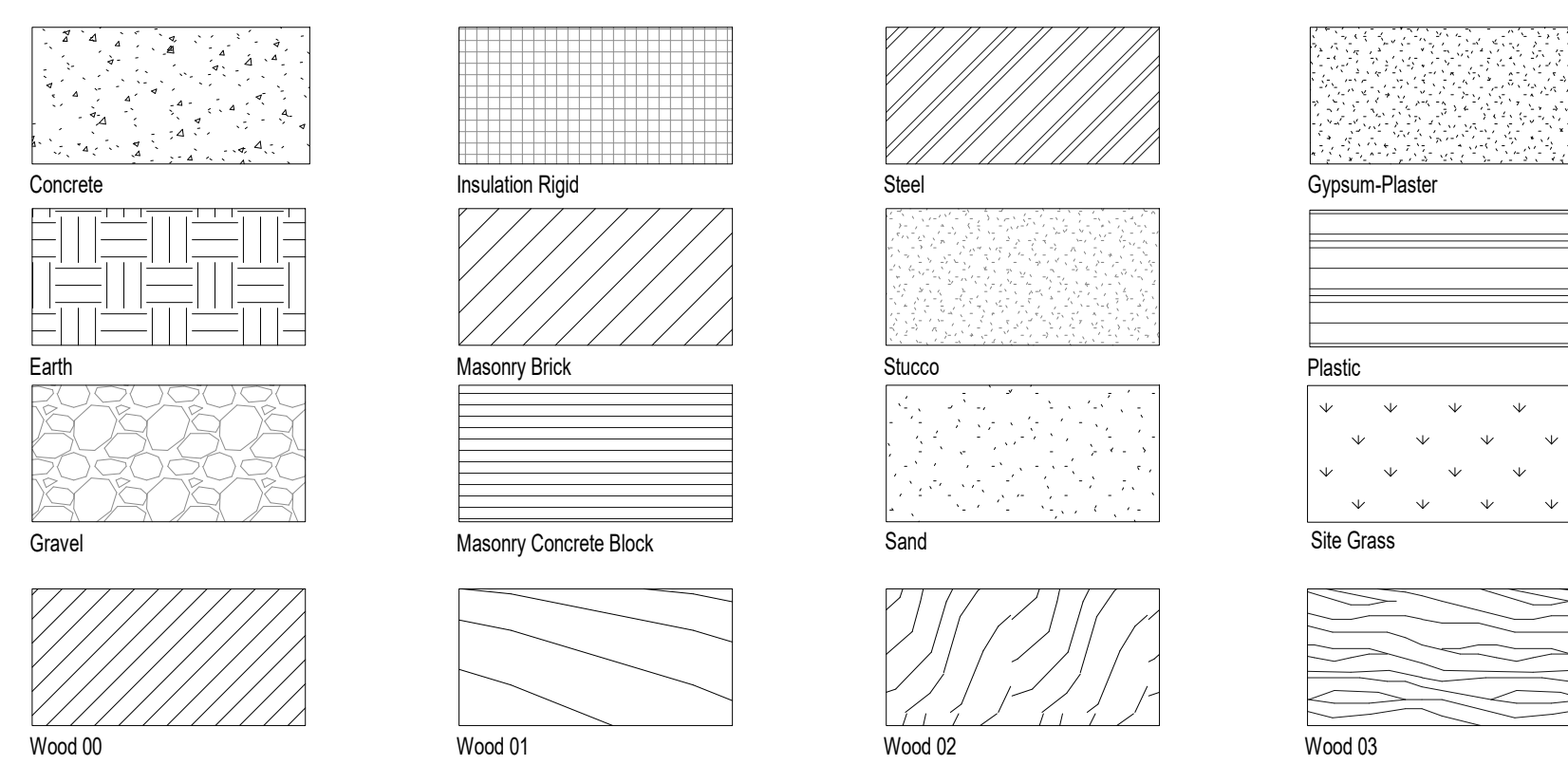
VICINITY MAP



PROJECT GENERAL NOTES

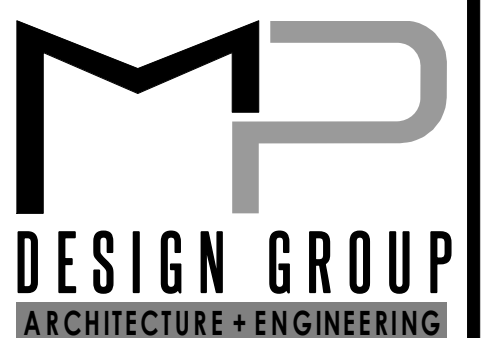
- THE CONSTRUCTION DOCUMENTS ARE COMPRISED OF BOTH DRAWINGS AND SPECIFICATIONS (PROJECT MANUAL). THE GENERAL CONTRACTOR SHALL NOT BREAK OUT SECTIONS TO SUB-CONTRACTORS OR VENDORS.
- DO NOT SCALE DRAWINGS; IF DIMENSIONS ARE IN QUESTION CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM ARCHITECT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

MATERIAL HATCH LEGEND



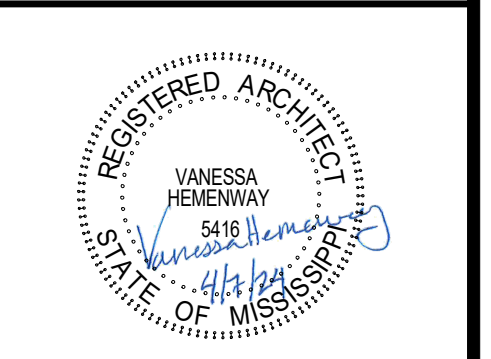
DRAWING INDEX

GENERAL INDEX	ARCHITECTURAL INDEX	ELECTRICAL INDEX CONTIUED
C000 COVER SHEET	A101 FLOOR PLAN, REFLECTED CEILING PLAN, ROOF PLAN	E111 ELECTRICAL POWER PLAN
G101 GENERAL NOTES, ABBREV. SYMBOLS, SHEET INDEX	A201 EXTERIOR ELEVATIONS	E121 ELECTRICAL LIGHTING PLAN
G102 ADA & ABA STANDARDS	A301 BUILDING SECTIONS AND WALL SECTIONS	E141 ELECTRICAL SPECIAL SYSTEMS PLAN
G103 TYPICAL MOUNTING HEIGHTS	A501 SECTION DETAILS	E151 MECHANICAL POWER PLAN
LS100 CODE STUDY	A601 OPENING SCHEDULE AND DETAILS	E501 ELECTRICAL GENERAL DETAILS
LS110 LIFE SAFETY PLAN AND PARTITION TYPES AND NOTES	A701 ROOM FINISH SCHEDULE, ENLARGED PLANS, AND MILLWORK	E601 ELECTRICAL ONE-LINE DIAGRAM
CIVIL INDEX	PLUMBING INDEX	ALTERNATES:
C001 GENERAL NOTES AND LEGENDS	P001 PLUMBING ABBREVIATIONS, SYMBOLS AND NOTES	ALTERNATE 1:
C100 EXISTING CONDITIONS AND SITE DEMOLITION PLAN	P101 SANITARY SEWER PLAN	PROVIDE SPRAY FOAM INSULATION IN LIEU OF THE PRE ENGINEERED METAL BUILDING INSULATION SYSTEM.
C110 STORM WATER POLLUTION PREVENTION PLAN	P102 SANITARY VENT PLAN	
C200 CIVIL SITE PLAN	P103 DOMESTIC WATER PLAN	
C210 SITE LAYOUT PLAN	P501 PLUMBING DETAILS	
C220 SITE JOINTING PLAN AND DETAILS	P601 PLUMBING SCHEDULES	
C300 SITE GRADING AND DRAINAGE PLAN	MECHANICAL INDEX	
C400 SITE UTILITY PLAN	M001 MECHANICAL NOTES	
C610 STORM WATER POLLUTION PREVENTION PLAN	M002 HVAC ABBREVIATIONS AND SYMBOLS	
C620 CIVIL SITE DETAILS	M101 MECHANICAL PLAN	
C630 SITE GRADING AND DRAINAGE DETAILS	M501 MECHANICAL DETAILS	
C640 SITE UTILITY DETAILS	M601 MECHANICAL SCHEDULES	
STRUCTURAL INDEX	ELECTRICAL INDEX	
S001 STRUCTURAL GENERAL NOTES	E001 ELECTRICAL SYMBOL SCHEDULES	
S100 OVERALL FOUNDATION PLAN	E002 ELECTRICAL NOTES	
S101 SLAB JOINTING PLAN	E003 ELECTRICAL ABBREVIATIONS, LUMINAIRE SCHEDULE & FEEDER SCHEDULE	
S300 SECTIONS AND DETAILS	E101 ELECTRICAL SITE PLAN	
S500 STANDARD DETAILS		



"Designed to Build"
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

David J. Machado, PE
Brad P. Patano, PE
Gerrod W. Kilpatrick, PE
Bradford A. Jones, AIA



SARACENNIA FIRE STATION
JACKSON COUNTY
SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
PROJECT NO: 0004.23.001
DRAWN BY: VJH
CHECKED BY: VJH

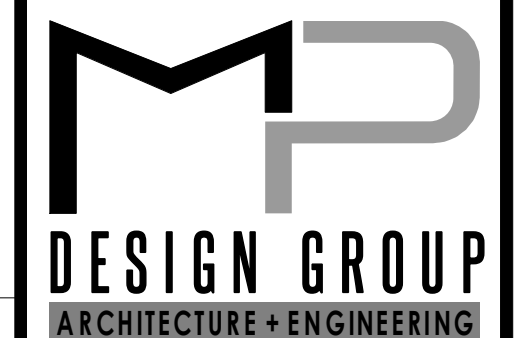
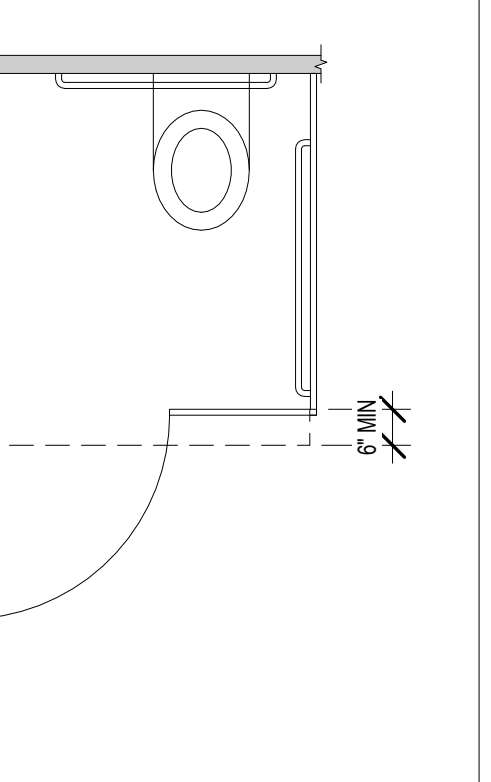
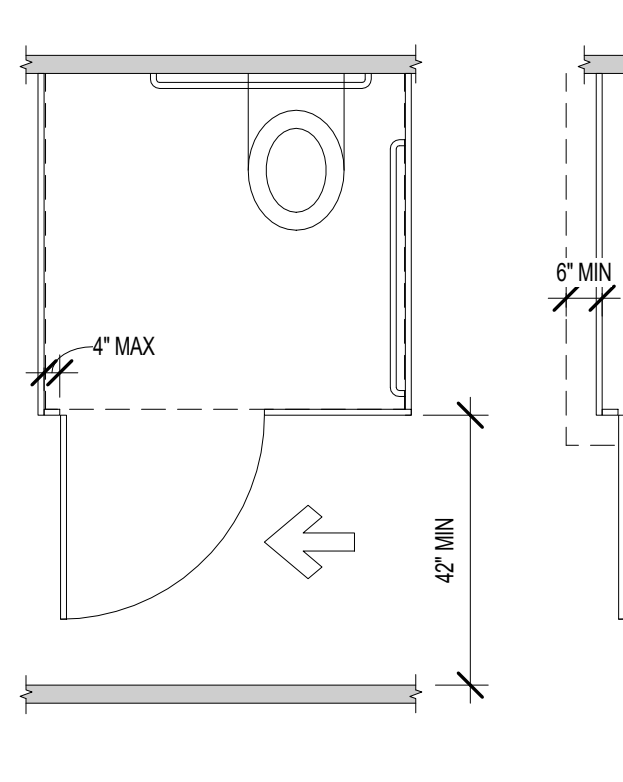
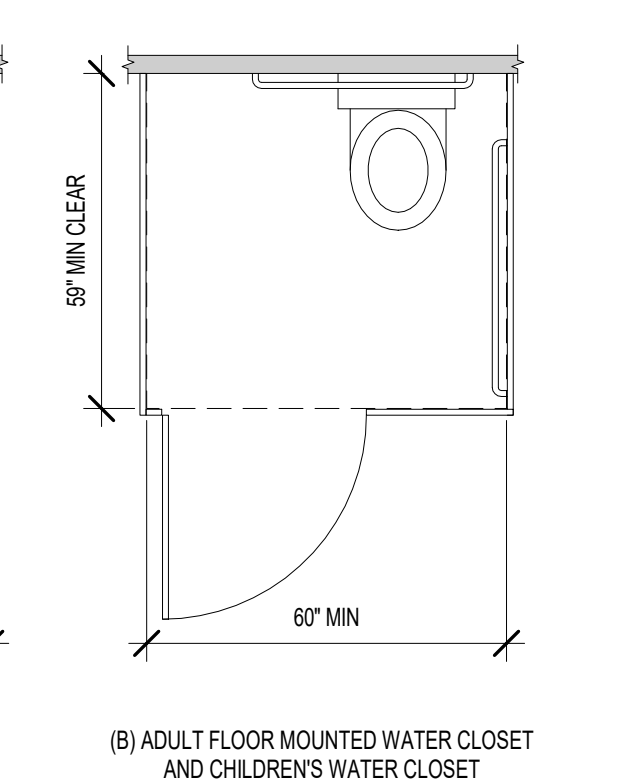
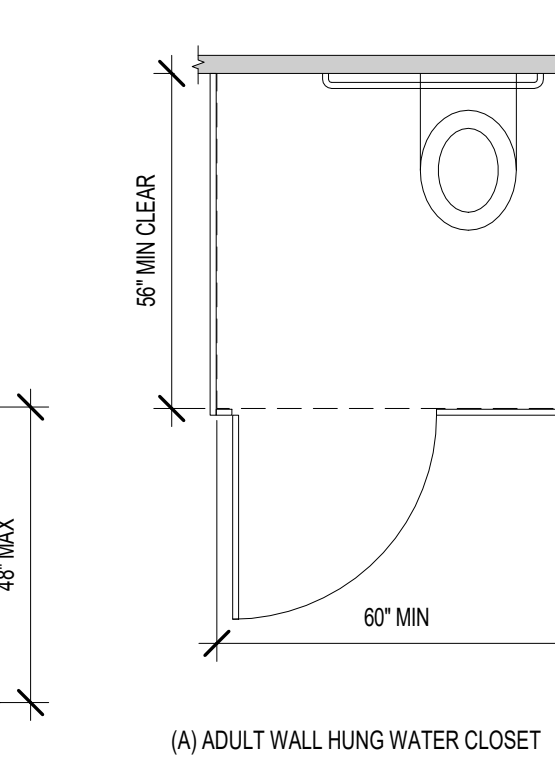
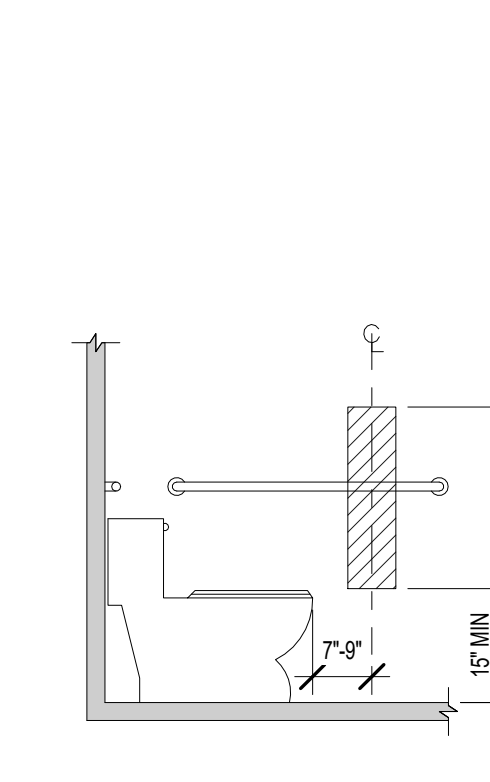
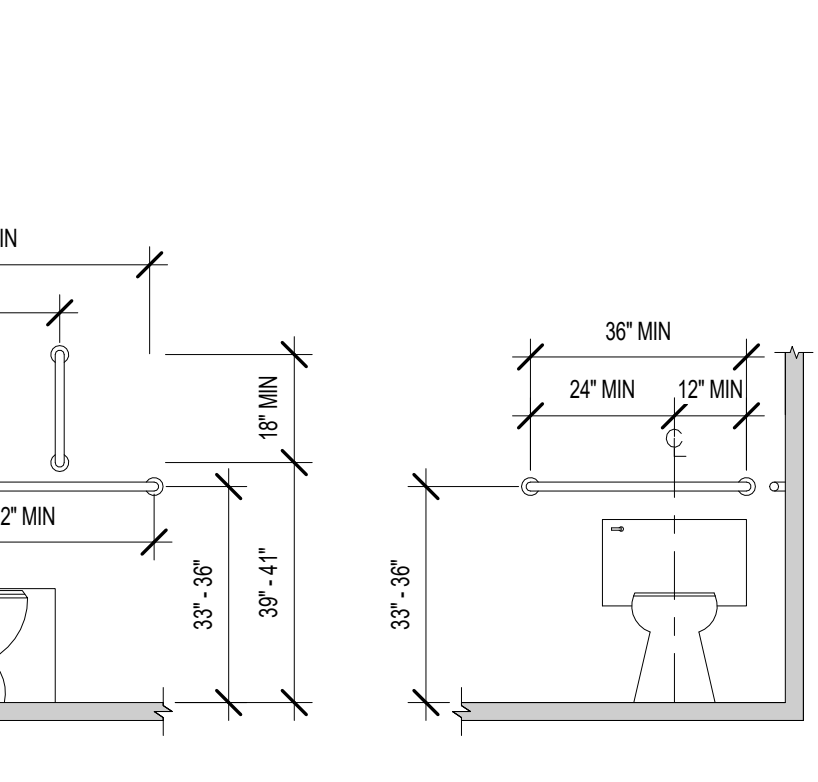
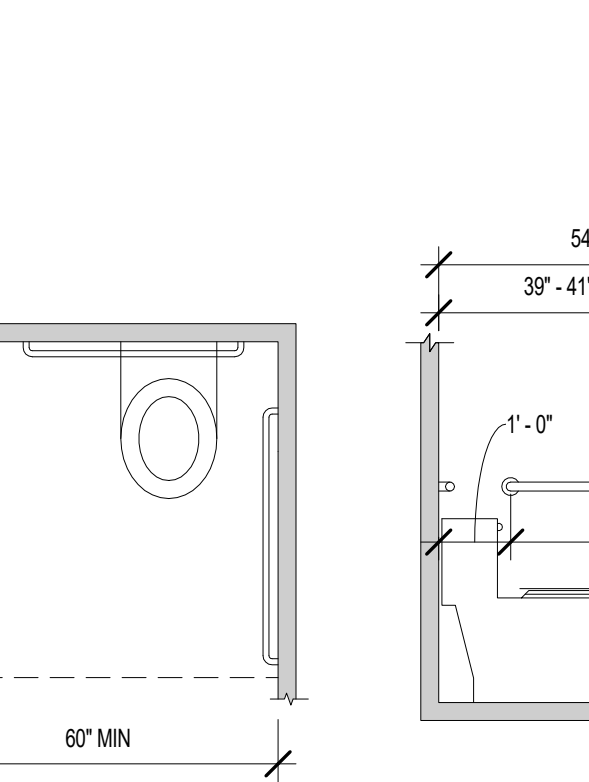
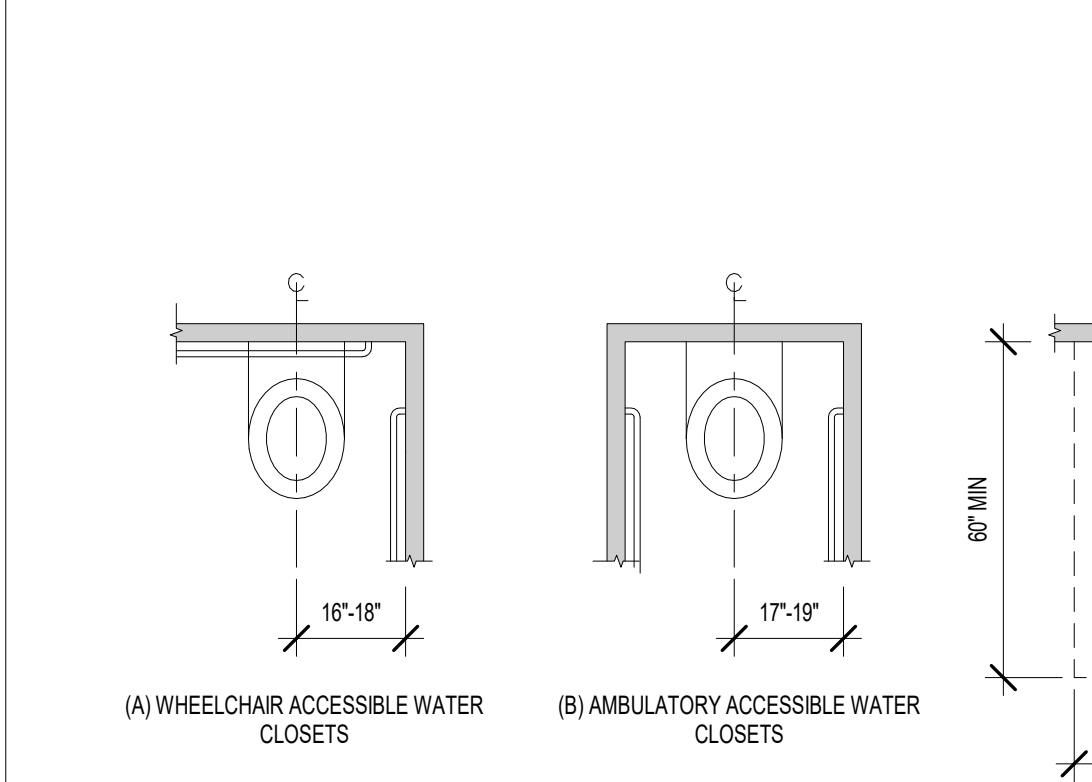
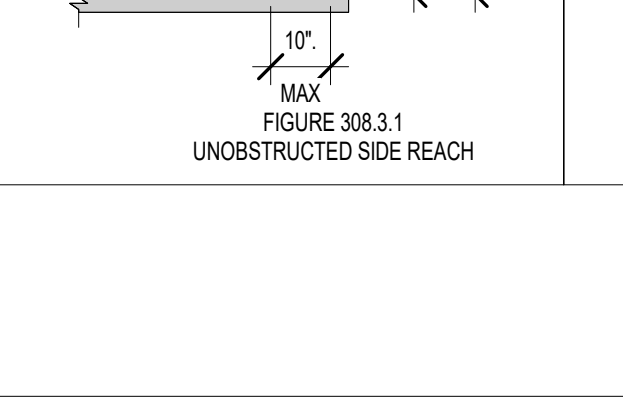
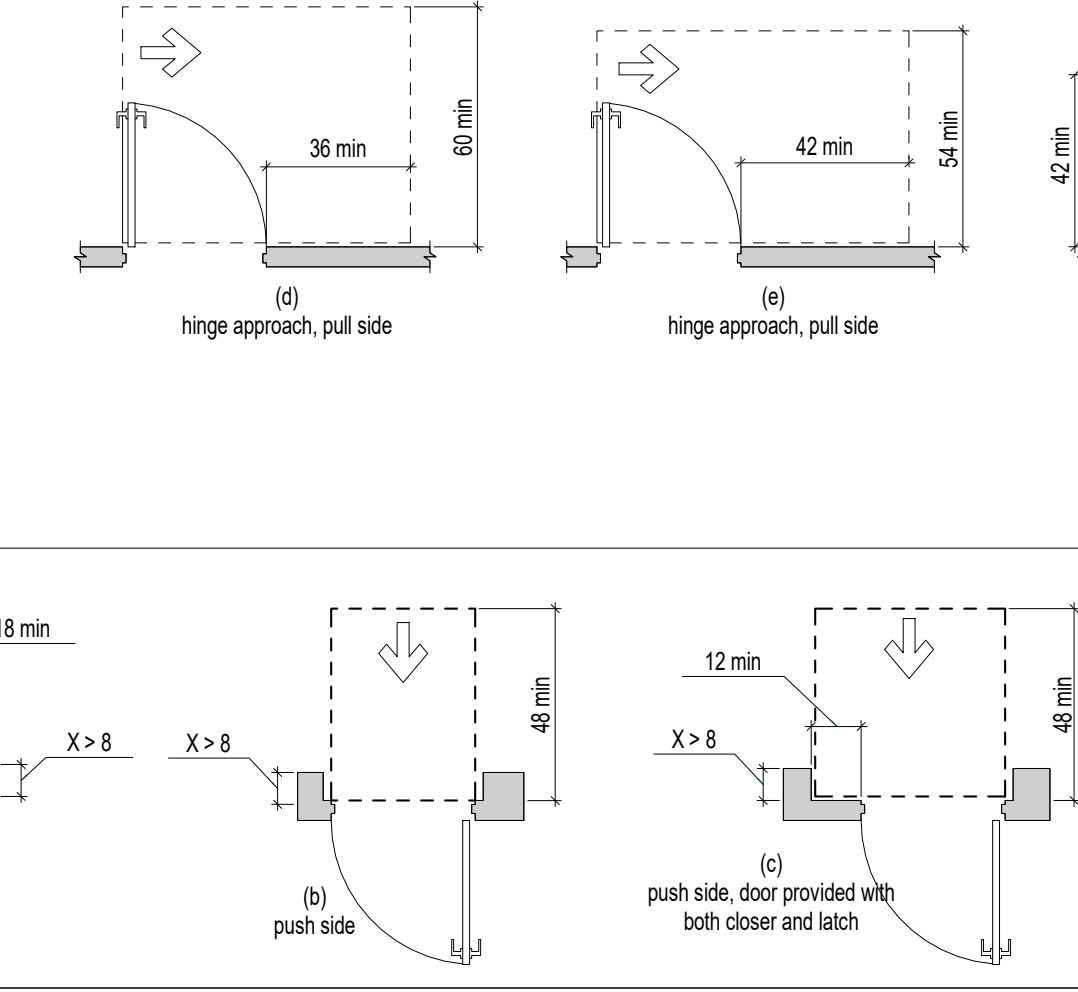
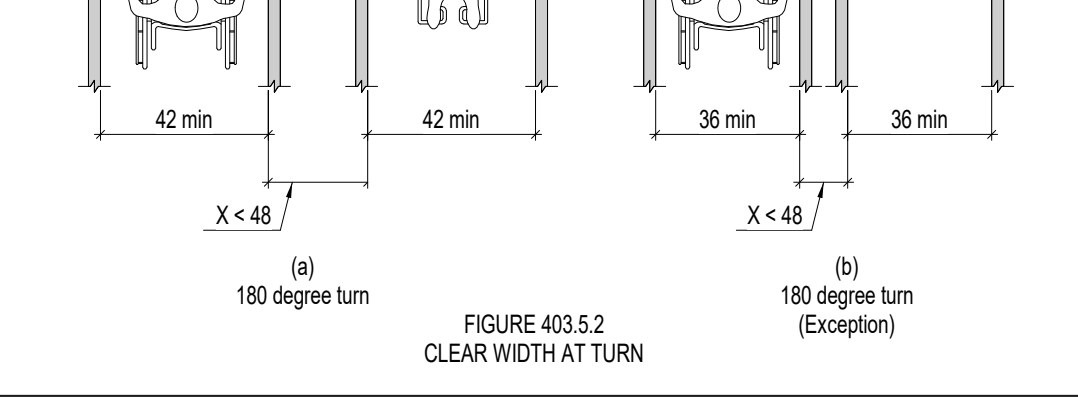
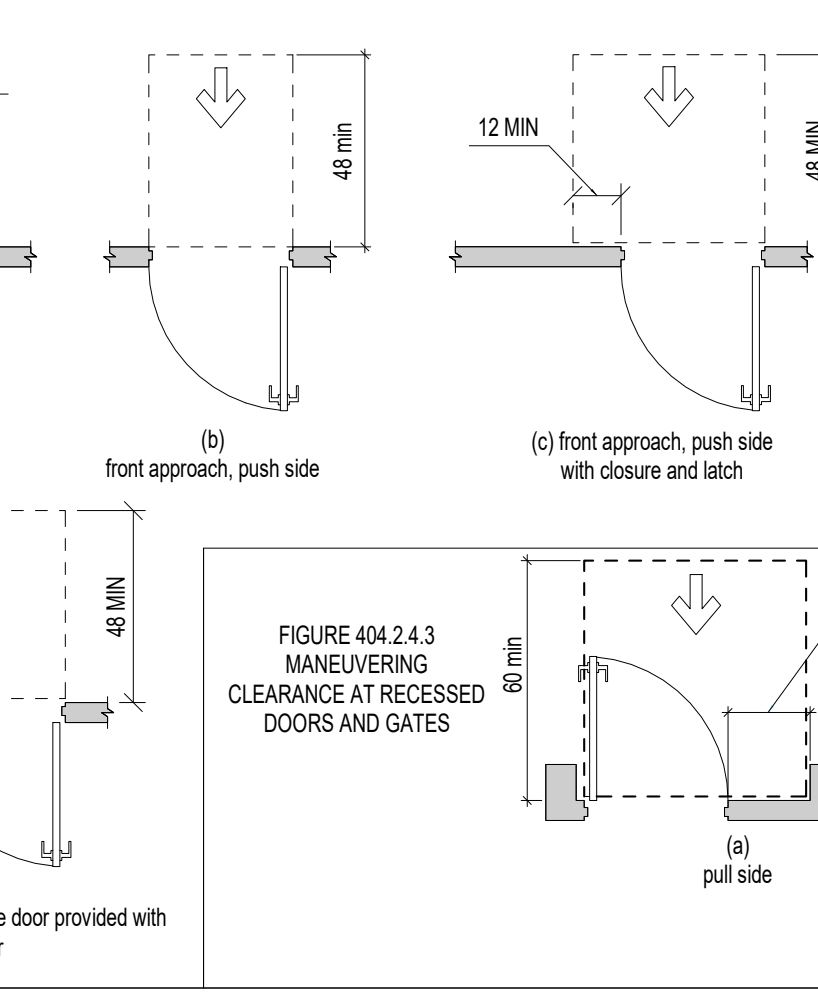
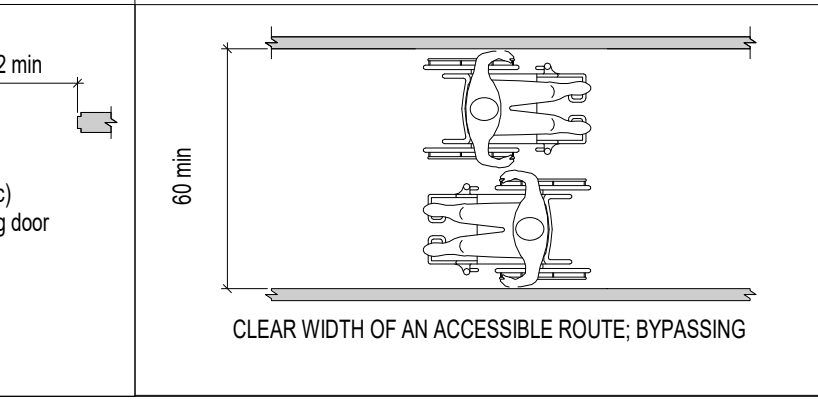
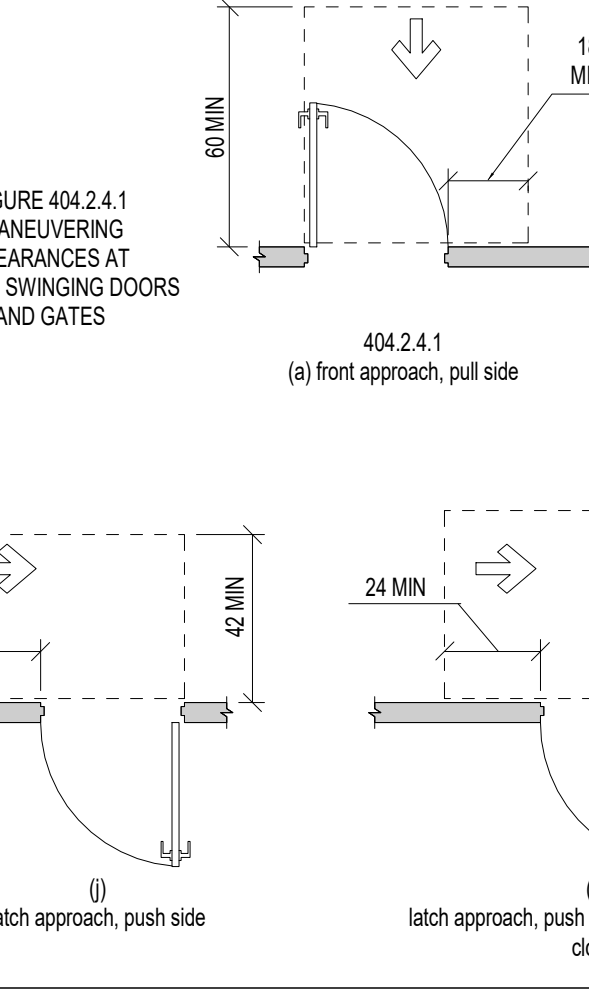
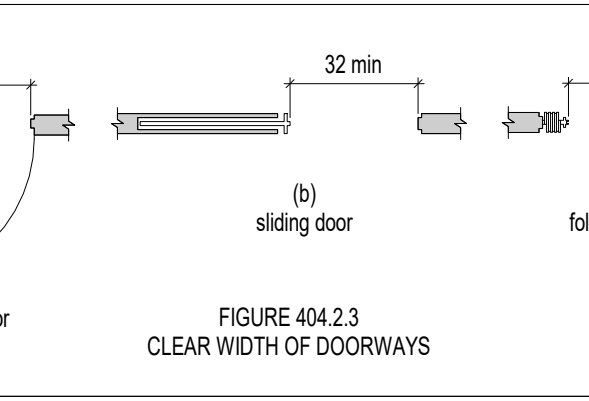
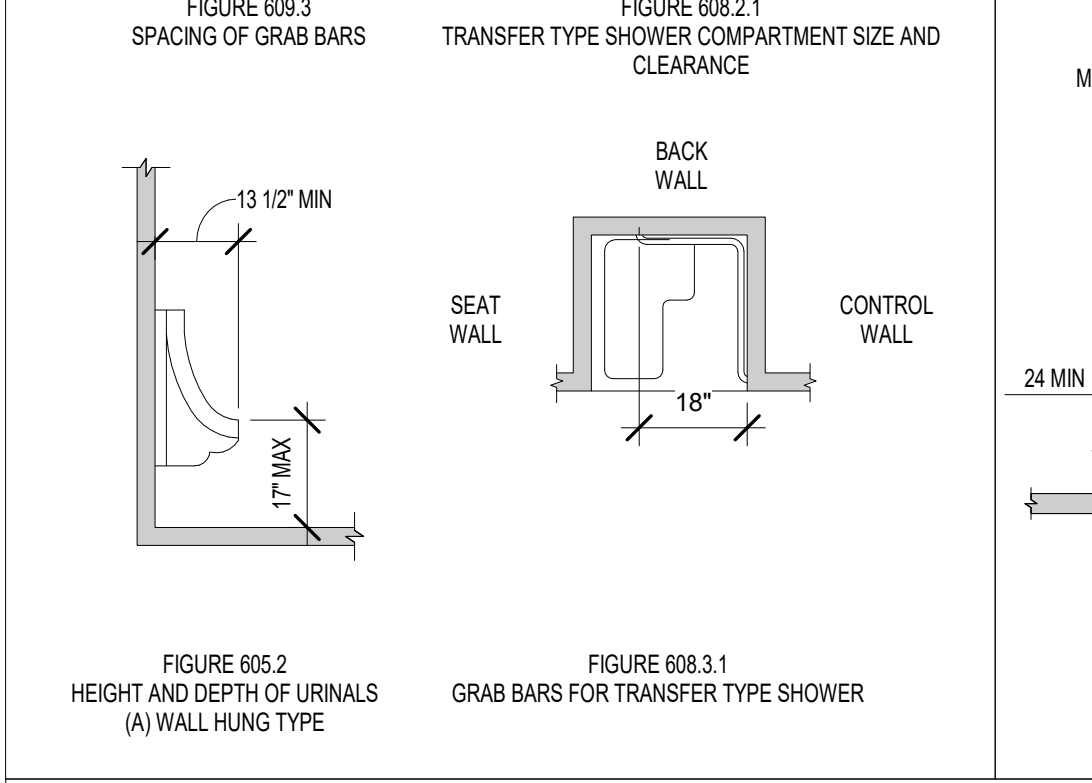
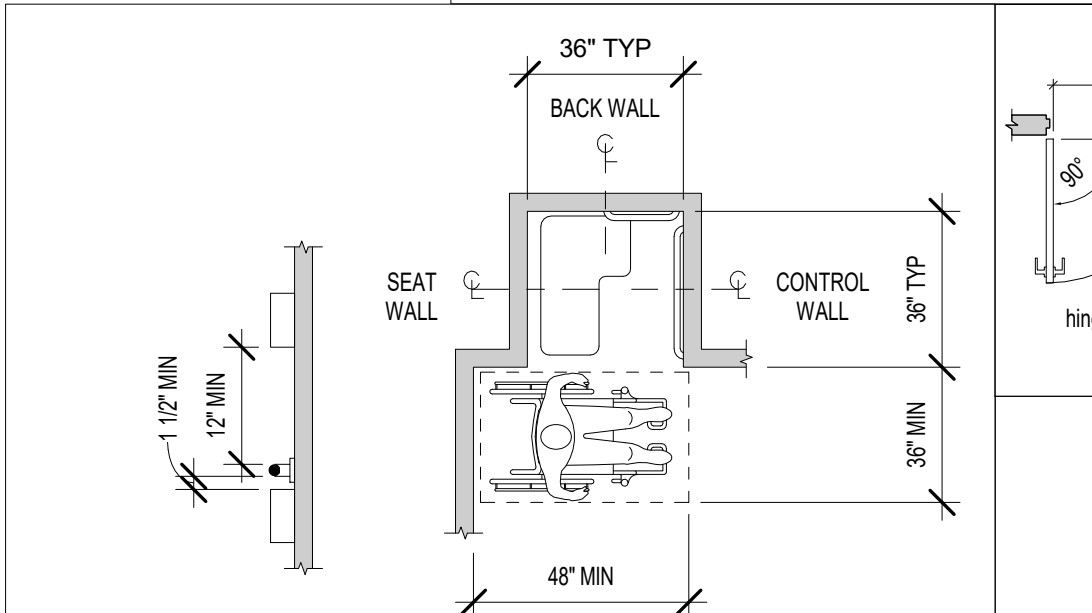
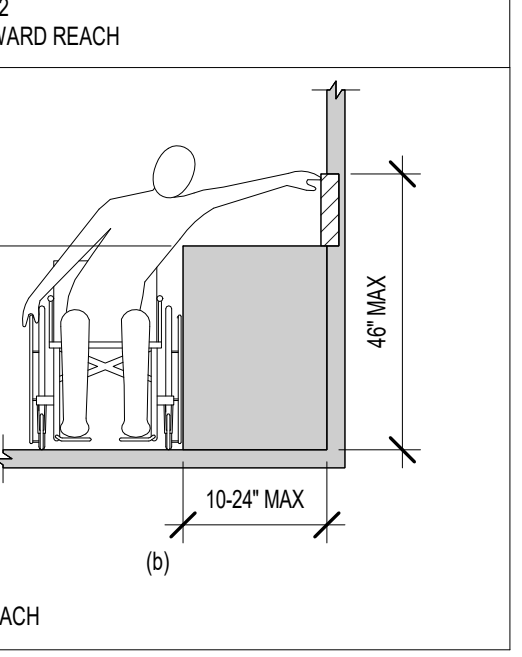
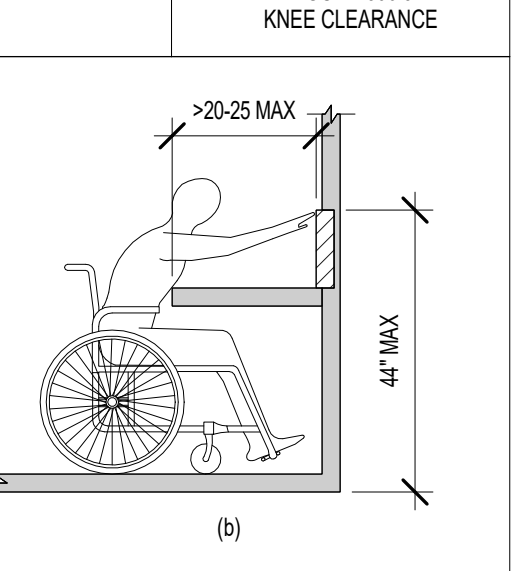
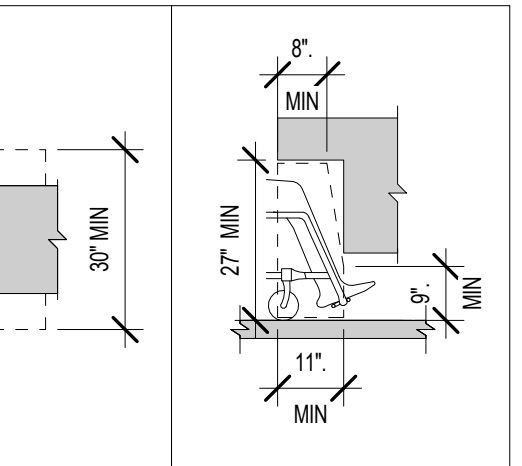
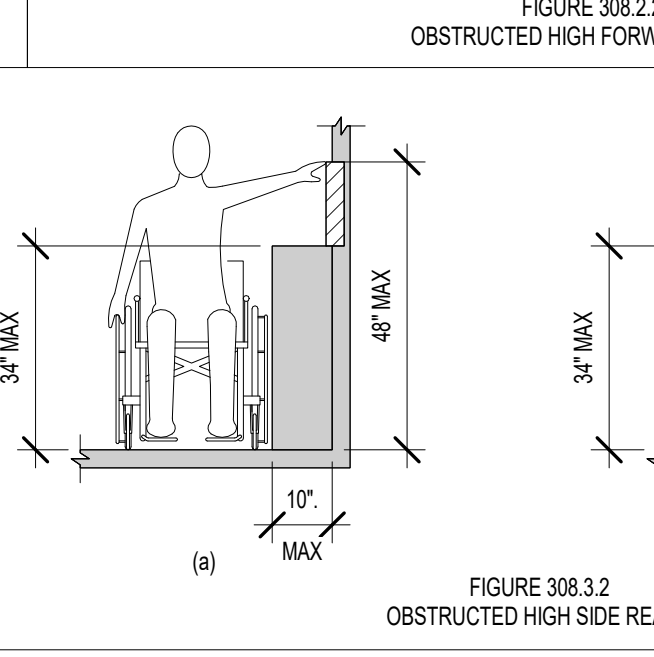
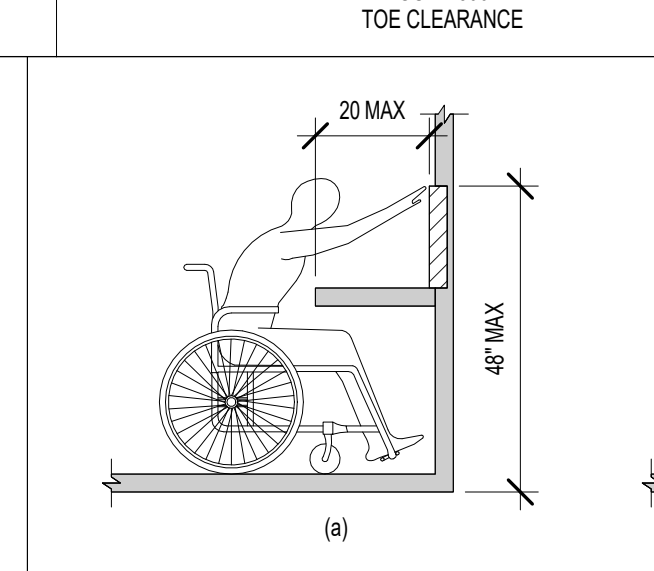
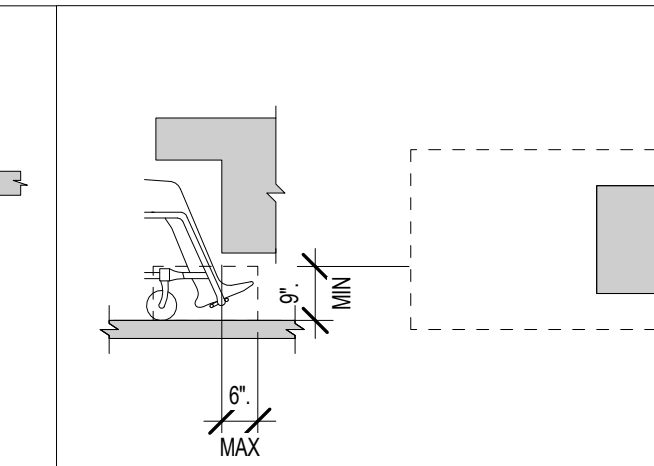
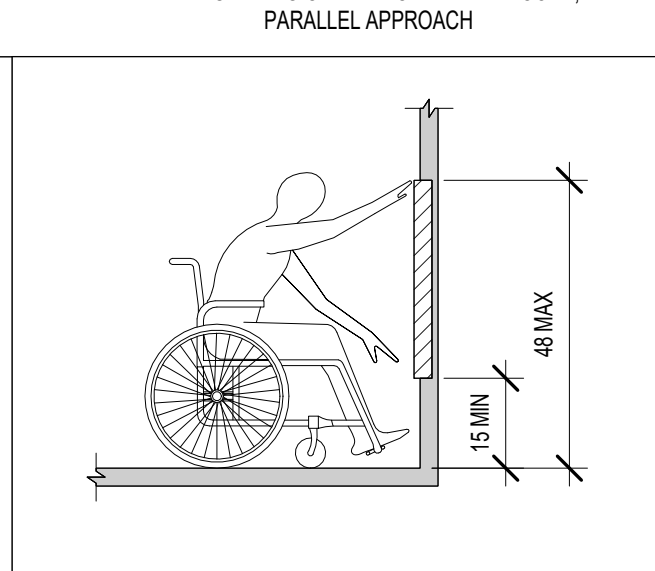
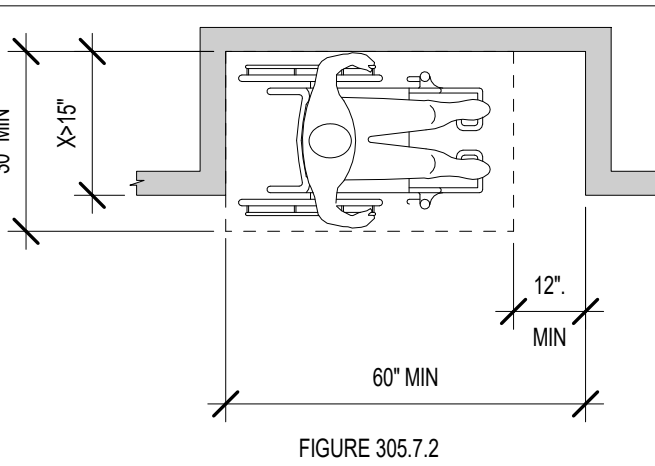
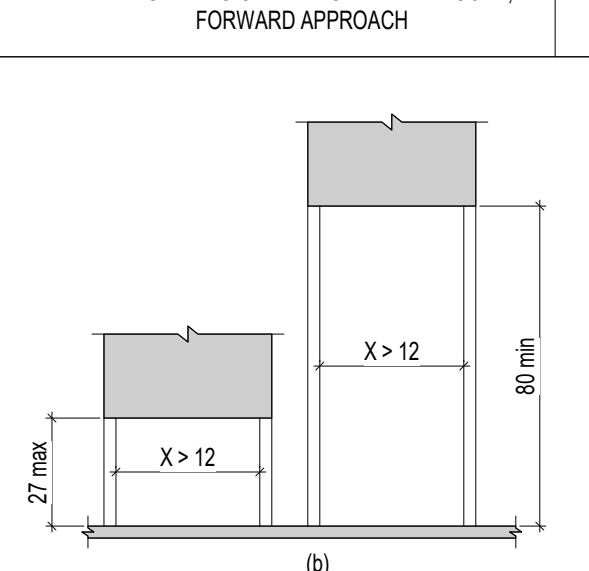
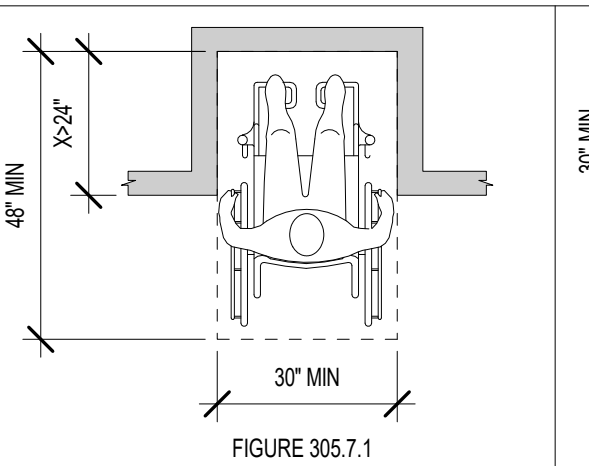
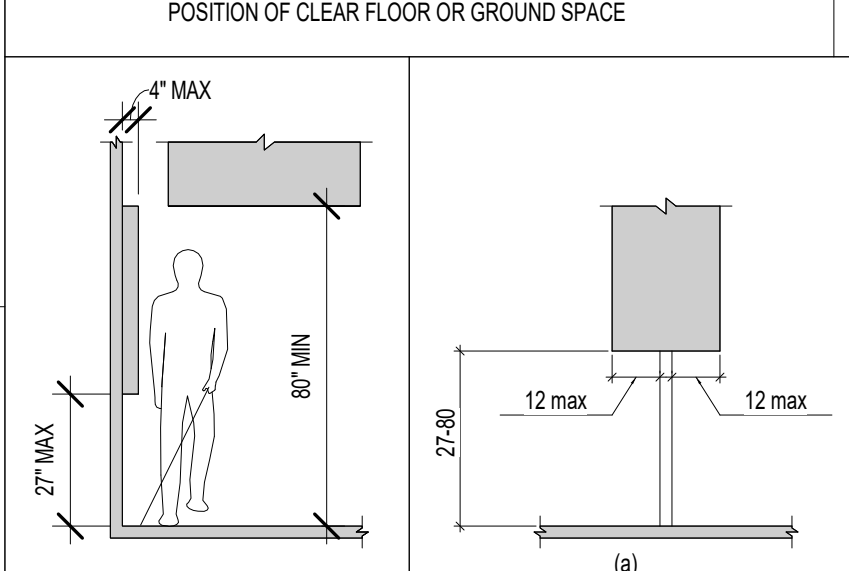
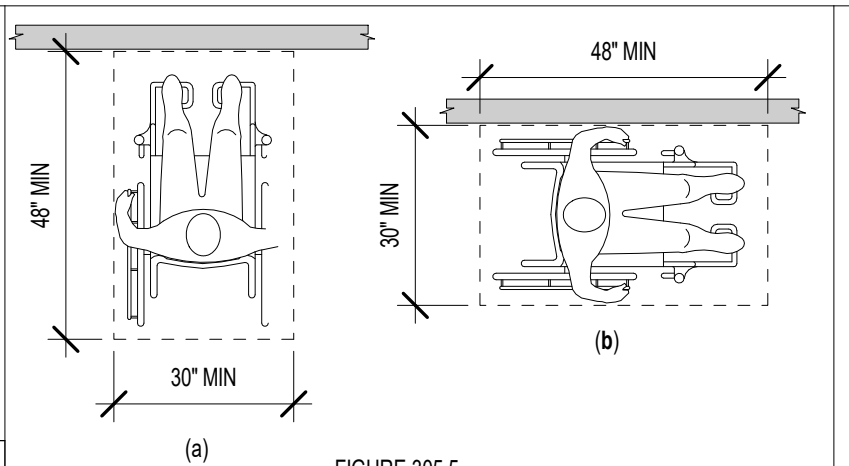
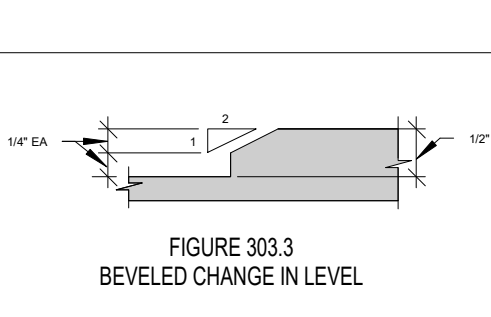
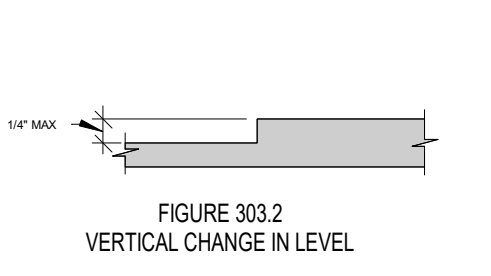
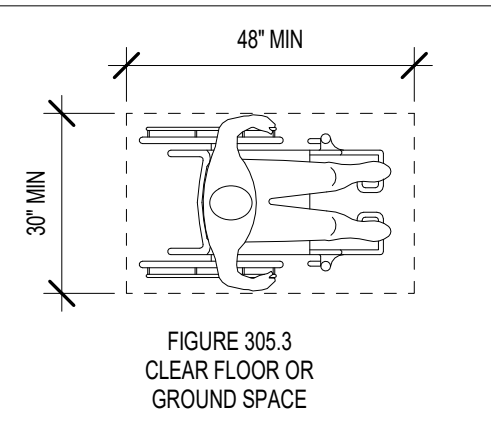
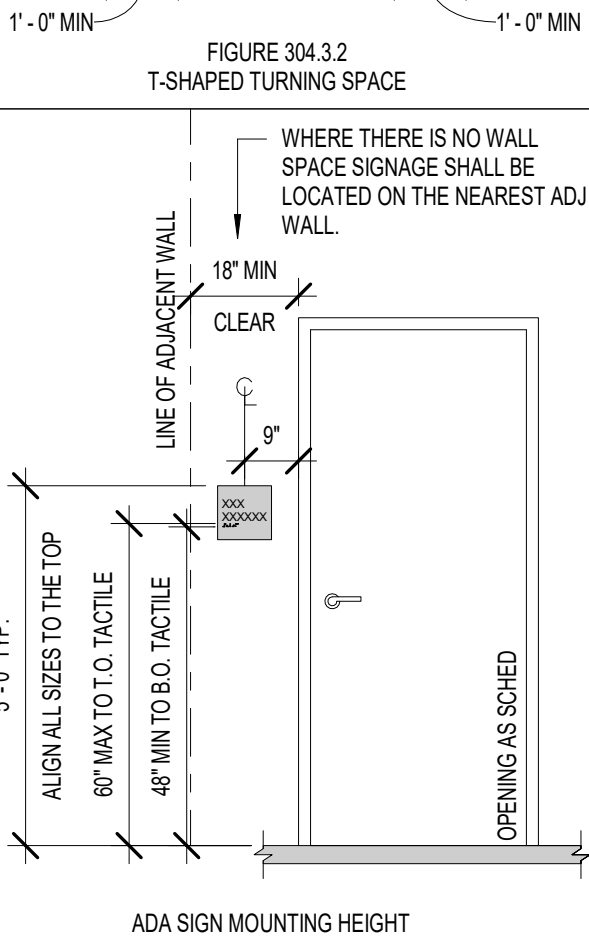
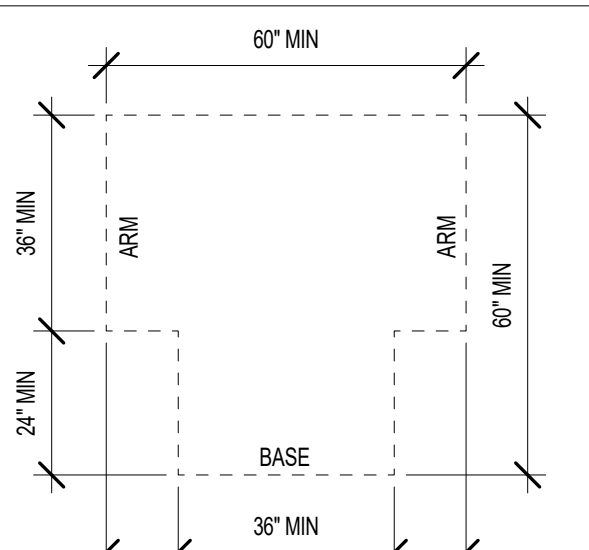
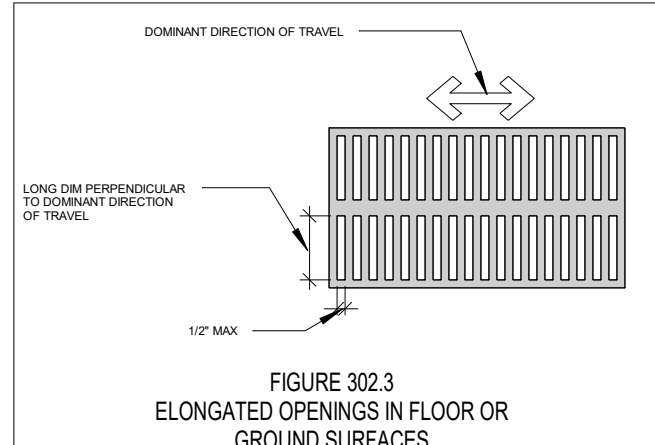
NO.	REVISION	DATE	ISSUED FOR CONSTRUCTION
REV 0		04/07/24	

NO.	REVISION	DATE	ISSUED FOR CONSTRUCTION
REV 0		04/07/24	

G101
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ADA & ABA GENERAL NOTES

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



"Designed to Build"
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

David J. Machado, PE
Brad P. Patano, PE
Gerrod W. Kilpatrick, PE
Bradford A. Jones, AIA



SARACENNIA FIRE STATION
JACKSON COUNTY
SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
PROJECT NO: 0004.23.001
DRAWN BY: VJH
CHECKED BY: VJH

ADA & ABA STANDARDS	
NO.	REVISION / SUBMITTAL
REV 0	ISSUED FOR CONSTRUCTION
DATE	04.07.24

VERIFY SCALES	
NO.	REVISION / SUBMITTAL
REV 0	ISSUED FOR CONSTRUCTION
DATE	04.07.24

G102

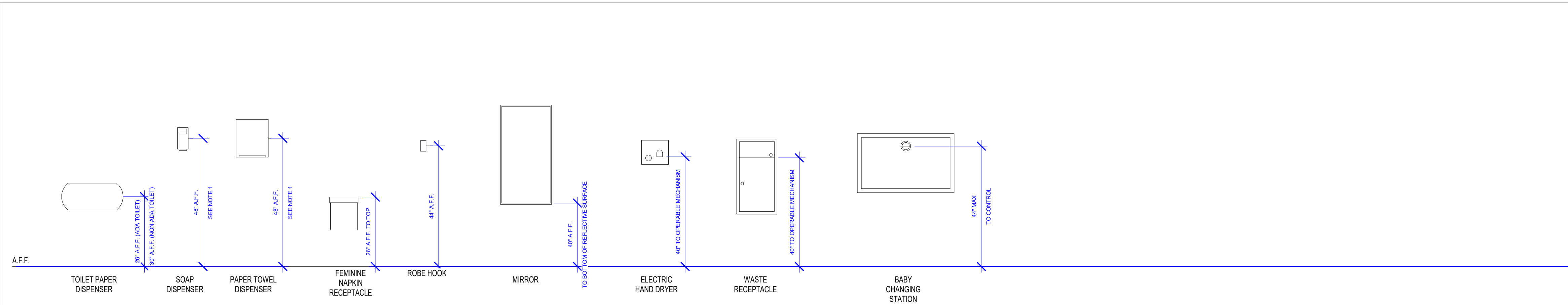
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO PATANO PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

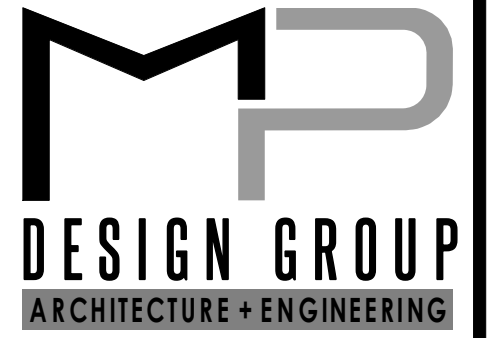
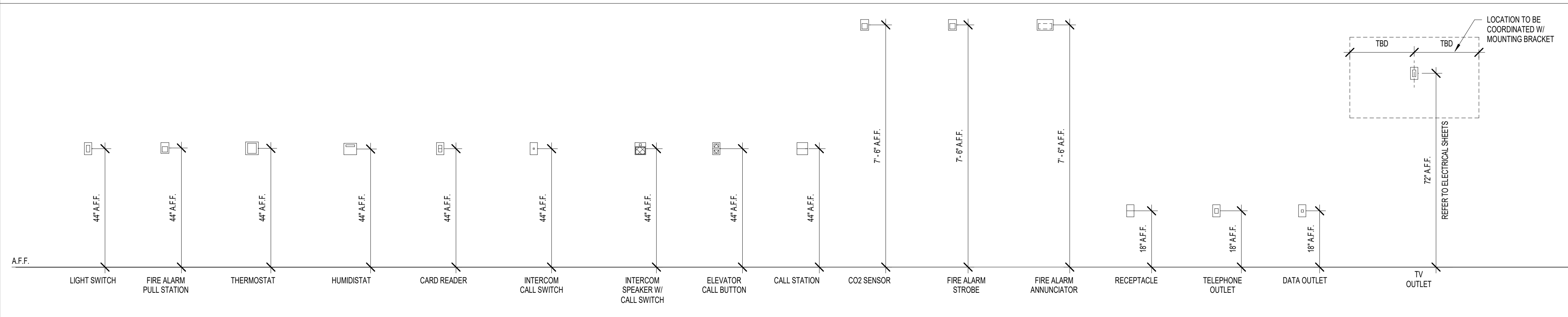
TYP. MOUNTING HEIGHT GENERAL NOTES

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

TYPICAL TOILET ACCESSORY MOUNTING HEIGHTS



TYPICAL PLATE AND DEVICE MOUNTING HEIGHTS



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerard W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENIA FIRE STATION

JACKSON COUNTY

SARACENIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: VJH
 CHECKED BY: VJH

TYPICAL MOUNTING HEIGHTS

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

G103

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

CODE STUDY : 2018

PART 1: GENERAL PROJECT INFORMATION

NAME OF PROJECT: SARACENNIA FIRE STATION
 ADDRESS: STREET: SARACENNIA ROAD
 CITY: MOSS POINT, STATE: MS, ZIP: 39532
 PROPOSED USE: APPARATUS BAY
 PROJECT NUMBERS: MP: 0155.23.001

OWNER: JACKSON COUNTY
 JACKSON COUNTY BOARD OF SUPERVISORS
 ADDRESS: STREET: P.O. BOX 998
 CITY: PASCAGOULA, STATE: MS, ZIP: 39568
 CONTACT NUMBERS: GENERAL ADMINISTRATION: 228-769-3089

PRINCIPAL DESIGN FIRM: MIP DESIGN GROUP
 PROJECT MANAGERS: BRAD PATANO, PE, & VANESSA HEMENWAY, AIA
 ADDRESS: STREET: 918 HOWARD AVE, SUITE F
 CITY: BILOXI STATE: MS, ZIP: 39530
 CONTACT NUMBERS: OFFICE: 228.388.1950 FAX: 228.388.1971
 E-MAIL ADDRESS: BPATANO@MPDESIGNGROUP.US, VANESSA@MPDESIGNGROUP.US

PROJECT DESIGN TEAM

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

LETTER OF SUPERVISION REQ: YES NO

PART 2: GENERAL CODE INFORMATION

2.1 BUILDING CODES USED IN DESIGN:
 2018 INTERNATIONAL BUILDING CODE
 2018 INTERNATIONAL FIRE CODE
 2018 INTERNATIONAL MECHANICAL CODE
 2018 INTERNATIONAL PLUMBING CODE
 NFPA 13: STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS

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

BRIEF PROJECT DESCRIPTION AND SCOPE OF WORK:
 VOLUNTEER FIRE STATION FOR MEETING SPACE AND DISPATCH INCLUDING APPARATUS BAY FOR EMERGENCY SERVICE VEHICLE STORAGE.

PART 3: EXISTING CONDITIONS

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

PART 4: BUILDING DATA

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

MIXED CONSTRUCTION: NO YES TYPES

FIRE SUPPRESSION SYSTEM: NO YES PARTIAL

OVERALL BUILDING HEIGHT: 14'-0" FEET 0" INCHES EAVE HEIGHT

NUMBER OF STORIES: 1 OR UNLIMITED PER N/A.

5.0 OCCUPANCY CLASSIFICATION (CHAPTER 3)
 BUSINESS
 STORAGE: S-1 S-2 HIGH-PILED NO YES

OCCUPANCY DESCRIPTION: MEETING / DISPATCH SPACE FOR VOLONTEER FIRE STATION OFFICE USE AND APPARATUS BAY FOR VEHICLE STORAGE.

HAZARDOUS MATERIAL STORAGE: NO YES

5.2 MIXED OCCUPANCY
 IS THIS BUILDING MIXED OCCUPANCY: NO YES SEPARATION HOURS REQ 0

5.3 MIXED OCCUPANCY EXCEPTIONS
 SEPARATED MIXED OCCUPANCY: NO YES N/A

INCIDENTAL USE AREAS: NO YES

ACCESSORY USE AREA(S): NO YES

5.1 SPECIAL OCCUPANCY: APPLICABLE: NO YES

PART 6: ALLOWABLE BUILDING AREA AND HEIGHT

6.1 ALLOWABLE AND ACTUAL BUILDING AREA
 ALLOWABLE AREA(S): BUSINESS: 23,000 SF

ACTUAL AREA(S): BUSINESS & S-2: 4,050 SF

UNLIMITED AREA: NO YES

BUILDING AREA MODIFICATIONS: NO YES

6.2 ALLOWABLE AND ACTUAL BUILDING HEIGHT
 ALLOWABLE HEIGHT: 55 FT
 ALLOWABLE # OF STORIES: 3 STORIES
 ACTUAL BUILDING HEIGHT: 14 FT TO BLDG EAVE
 ACTUAL # OF STORIES: 1 STORIES

PART 7: OCCUPANT LOAD
 SEE OCCUPANCY LOAD SCHEDULE

PART 8: FIRE PROTECTION REQUIREMENTS FOR BUILDING ELEMENTS

8.1 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

BUILDING ELEMENT	REQD RATING	UL NO.
STRUCTURAL FRAME:	0	
BEARING WALLS:	0	
EXTERIOR:	0	
INTERIOR:	2	UL419
NON-BEARING WALLS AND PARTITIONS:		
EXTERIOR:	0	
INTERIOR:	0	
FLOOR CONSTRUCTION:		
INCLUDING SUPPORTING BEAMS AND JOISTS:	0	
ROOF CONSTRUCTION:	0	

RATINGS WERE REDUCED BY 1 HR DUE TO AN AUTOMATIC SPRINKLER SYSTEM:
 NO YES N/A

8.2 OTHER RATED ELEMENTS

BUILDING ELEMENT	REQD RATING	UL NO.
SHAFTS (EXIT)	0	
SHAFTS (OTHER)	0	
CORRIDOR SEPARATION	0	
OCCUPANCY SEPARATION	0	
PARTY/FIRE WALL SEPARATION	0	
SMOKE BARRIER SEPARATION:	0	
SPACES APPURTENANT TO STAGE	0	

RATINGS WERE REDUCED BY 1 HR DUE TO AN AUTOMATIC SPRINKLER SYSTEM:
 NO YES

8.3 DRAFTSTOPPING
 DRAFTSTOPPING IN FLOOR: NO YES N/A
 DRAFTSTOPPING IN ATTIC: NO YES N/A

8.4 DISTANCE TO PROPERTY LINE FROM EXTERIOR WALL BUILDINGS ON THE SAME LOT: NO

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

PART 9: EXIT REQUIREMENTS

9.1 EXIT ACCESS
 FIRST FLOOR: 2 EXITS REQUIRED 3 EXITS FURNISHED
 DEAD END CORRIDORS: NO

9.2 MEANS OF EGRESS WIDTH
 32 INCHES TOTAL WIDTH OF EXITS REQUIRED
 36" [EACH DOOR] TOTAL WIDTH OF EXITS PROVIDED

9.3 DIAGONAL RULE
 BLDG DIAGONAL DIM: 98 FT 6 IN | EXIT SEPARATION DIM: 73 FT 4 IN
 1/3 AUTOMATIC SPRINKLER EXCEPTION USED: NO
 PROTECTED CORRIDOR EXCEPTION USED: NO

9.4 TRAVEL DISTANCE:
 ALLOWABLE TRAVEL DISTANCE: 200 FT FOR B OCCUPANCY CLASS
 ACTUAL TRAVEL DISTANCE: (SEE LS SHEETS)

PART 10: LIFE SAFETY PLAN
 IS A LIFE SAFETY PLAN PROVIDED: YES

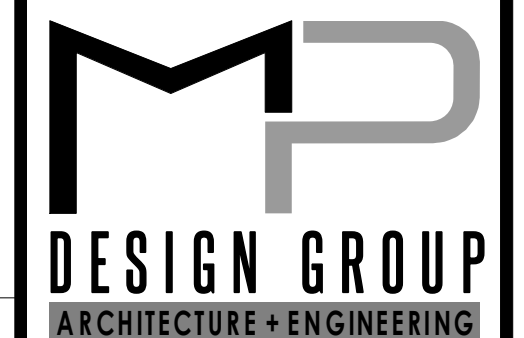
PART 11: ACCESSIBILITY
 DESIGN CONFORMS TO ANSI STANDARD 117.1: YES

PART 12: PLUMBING SYSTEMS
 OCCUPANCY CLASS: BUSINESS
 OCCUPANCY CLASS LOAD: 14 TOTAL

WATER CLOSETS REQ.: 1, 1 PROVIDED - OCCUPANT LOAD UNDER 15
 LAVATORIES REQ.: 1, 1 PROVIDED
 BATH TUBS/SHOWERS REQ.: NONE, 1 SHOWER PROVIDED
 DRINKING FOUNTAINS REQ.: NONE - OCCUPANT LOAD UNDER 15
 SERVICE SINKS REQ.: 0 REQUIRED, 1 PROVIDED

OCCUPANCY LOAD SCHEDULE

RM #	RM NAME	OCCUPANCY TYPE	AREA	OCCUPANCY FACTOR	OCCUPANT LOAD	EGRESS WIDTH REQ. SP
101	APPARATUS BAY	STORAGE (S-2)	2763 SF	300	9	0' - 1 13/16"
102	FACILITY AREA	BUSINESS	664 SF	150	4	0' - 0 13/16"
106	OFFICE	BUSINESS	191 SF	150	1	0' - 0 3/16"
Grand total: 3					14	0' - 2 13/16"



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION

JACKSON COUNTY

SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: VJH
 CHECKED BY: VJH

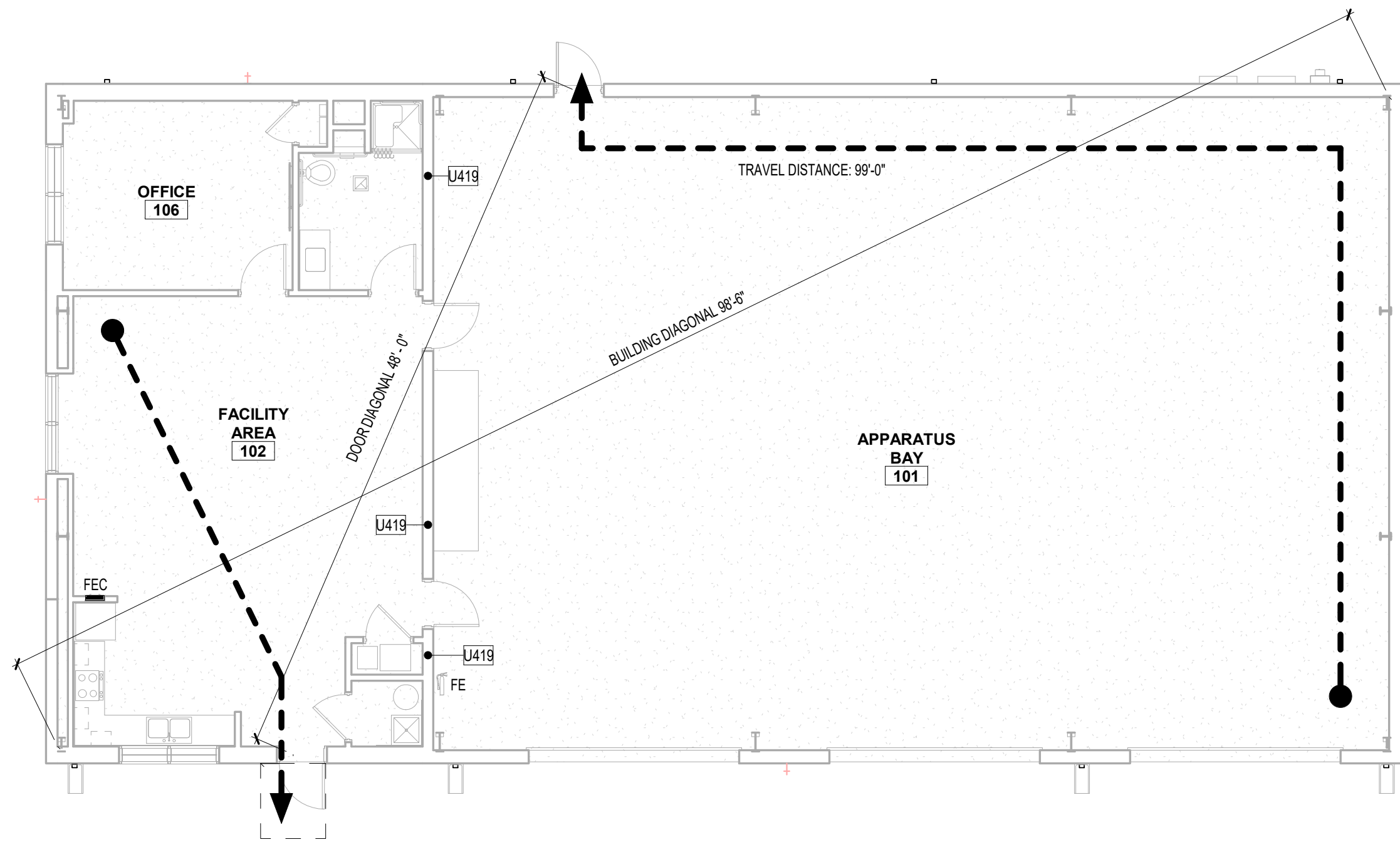
CODE STUDY

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

LS100

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

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

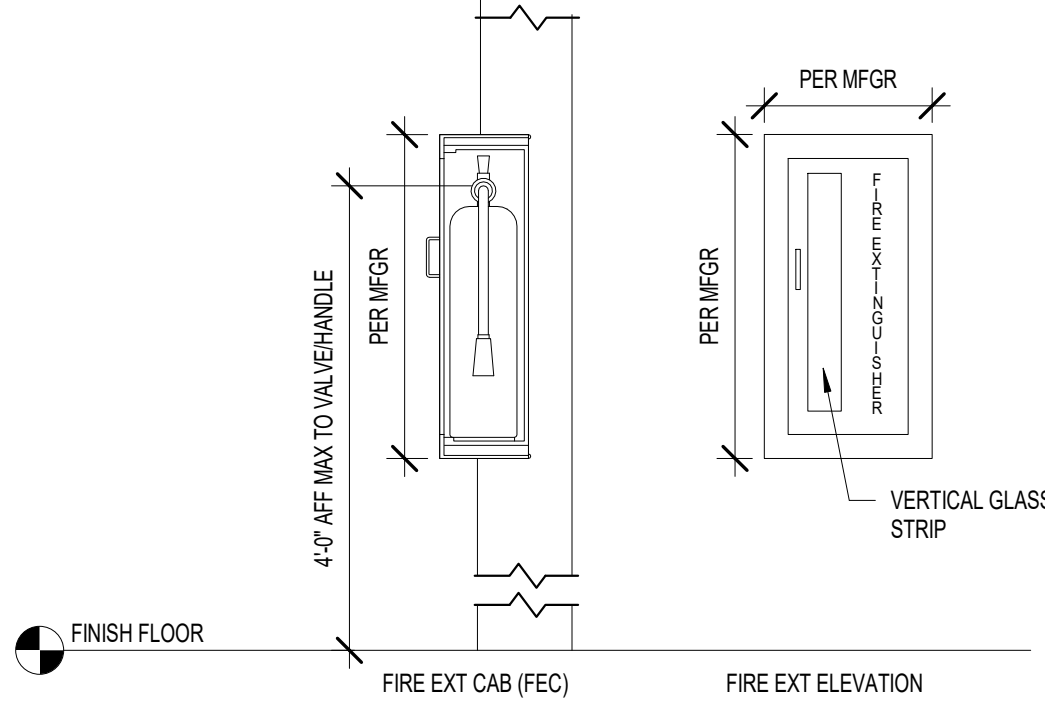
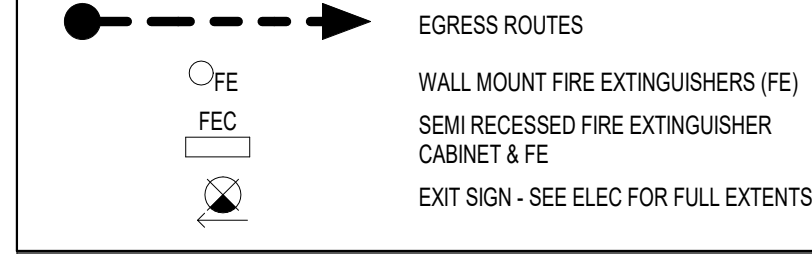


2
LS110
FIRST FLOOR PLAN - LIFE SAFETY PLAN
1/8" = 1'-0"

LIFE SAFETY GENERAL NOTES

- SEE ELECTRICAL FOR ALL EMERGENCY LIGHT FIXTURES, FIRE ALARM AND SMOKE DETECTION.
- SEE FLOOR PLANS FOR WALL PARTITION LOCATIONS.
- FEC AND FE LOCATIONS ARE LOCATED TO COMPLY WITH CODES AND STANDARDS. VERIFY WITH ARCHITECT BEFORE RELOCATING FEC'S.
- SEE MECHANICAL FOR FIRE/SMOKE DAMPERS.

LIFE SAFETY PLAN LEGEND



3
LS110
LIFE SAFETY FEC DETAIL
3/4" = 1'-0"

PARTITION TYPES				
TYPE MARK	TYPE IMAGE	DESCRIPTION	WIDTH	REMARKS
A1		3-5/8" MTL STUD @ 16" OC, 5/8" GYP BOTH SIDES	0' - 4 7/8"	
a1		3-5/8" MTL STUD @ 16" OC, 5/8" GYP ONE SIDE	0' - 4 1/4"	
B1-D		3-5/8" MTL STUD @ 16" OC, 5/8" GYP BOTH SIDES, SOUND BATT INSUL, TO DECK	0' - 4 7/8"	
U419		6" MTL STUD @ 24" OC, 2 LAYER TYPE X GYP BOTH SIDES, TO DECK	0' - 8 1/2"	A

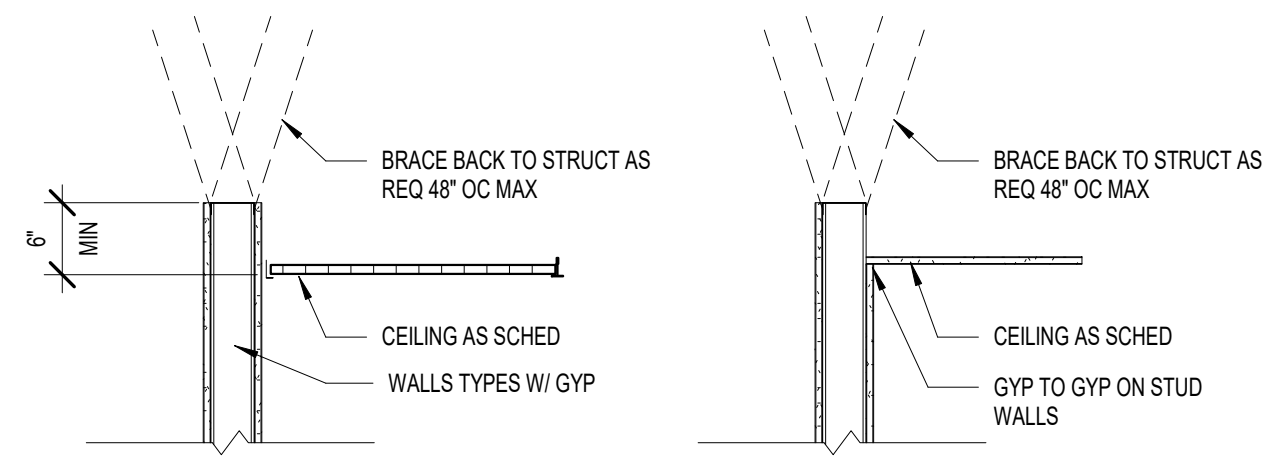
Grand total: 18

PARTITION TYPES GENERAL NOTES

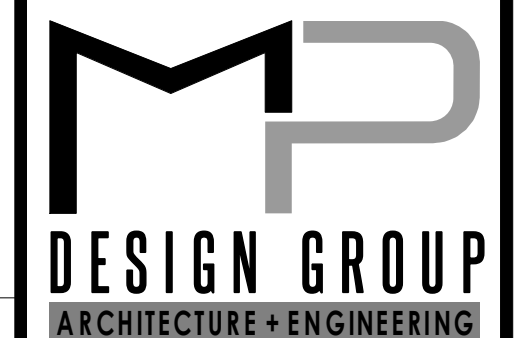
- SEE ARCHITECTURAL FLOOR PLANS FOR WALL PARTITION TYPE LOCATIONS.
- PARTITION TYPES ARE INTENDED TO DESCRIBE BASIC MATERIALS & ASSEMBLIES. FURR OUTS, FURR DOWNS, AND OTHER DESIGN FEATURES ARE DESCRIBED ON OTHER SHEETS IN CONSTRUCTION DOCUMENTS.
- FINAL PARTITION FINISHES ARE NOT INCLUDED ON PARTITION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

PARTITION TYPES REMARKS

- INSTALL UL RATED ASSEMBLY IN COMPLIANCE WITH ALL RATING PERFORMANCE APPLICATIONS AND REQUIREMENTS.
 - SEE FINISH SCHEDULE FOR FINISHES NOT NOTED HERE.



1
LS110
STANDARD CEILING TO WALL DETAILS
3/4" = 1'-0"



"Designed to Build"
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

David J. Machado, PE
Brad P. Patano, PE
Gerrod W. Kilpatrick, PE
Bradford A. Jones, AIA



SARACENNIA FIRE STATION

JACKSON COUNTY

SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
PROJECT NO: 0004.23.001
DRAWN BY: VJH
CHECKED BY: VJH

LIFE SAFETY PLAN AND PARTITION TYPES & NOTES

NO.	DATE	REVISION / SUBMITTAL
REV 0	04/07/24	ISSUED FOR CONSTRUCTION

LS110

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

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL



"Designed to Build"
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us



SARACENIA FIRE STATION
JACKSON COUNTY
SARACENIA RD, MOSS POINT, MS 39562

SCALE:
PROJECT NO: 0004.23.001
DRAWN BY: BJS
CHECKED BY: BJS

GENERAL NOTES AND LEGENDS

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

C001
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

SITE DEMOLITION NOTES

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

SURVEY LEGEND

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

STORMWATER POLLUTION PREVENTION NOTES

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

SEQUENCING OF SITE WORK AND RELATED EROSION CONTROL DEVICES

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

- PHASE I: START UP AND PERIMETER CONTROLS**
- CONTRACTOR SHALL POST ALL SITE AND STORMWATER CONTROL PERMITS AS REQUIRED BY EACH INDIVIDUAL PERMIT.
 - CONTRACTOR SHALL INSTALL PERIMETER CONTROLS. PREFERABLY, THESE SHOULD BE INSTALLED AFTER CLEARING AND PRIOR TO ANY GRUBBING OF THE SITE. FOR LARGER AREAS, CLEARING OF AN AREA THE WIDTH OF A BULLDOZER AND INSTALLING THE PERIMETER CONTROLS SHOULD BE PERFORMED PRIOR TO CLEARING THE INTERIOR PORTIONS OF THE SITE.
 - HOLD PRE-CONSTRUCTION CONFERENCE AT LEAST ONE (1) WEEK PRIOR TO STARTING CONSTRUCTION AND PERFORM WEEKLY REVIEWS OF THE EROSION, SEDIMENT AND STORMWATER CONTROL PLAN.
 - REMOVE VEGETATION, UNDERGROWTH AND TOP SIX (6) INCHES OF ORGANIC MATERIAL FROM THE SITE AND STOCKPILE TOPSOIL. CONTRACTOR SHALL PERFORM STOCKPILE PROTECTION AS REQUIRED TO PREVENT LOOSE DIRT FROM BEING WASHED FROM THE STOCKPILE.
 - PLACE TEMPORARY SANITARY FACILITIES AND DUMPSTERS.
- PHASE II: INTERMEDIATE CONTROLS**
- INTERMEDIATE CONTROLS ARE IMPLEMENTED FROM GRUBBING TO FINAL GRADE. THIS INCLUDES INSTALLATION OF SUBSURFACE DRAINAGE, INLETS AND UTILITIES AND UTILITIES ARE INSTALLED. THIS PHASE, DURING THIS PHASE, THE EXTENT AND DURATION OF EXPOSURE OF UN-STABILIZED AREAS IS GREATEST. THE CONTRACTOR SHALL TAKE ANY ADDITIONAL MEASURES REQUIRED TO PREVENT ADDITIONAL STORMWATER OR SEDIMENTATION RUNOFF AT NO ADDITIONAL COST TO THE OWNER.
- PHASE III: FINAL CONTROLS**
- THESE CONTROLS ARE IMPLEMENTED TO ACHIEVE FINAL STABILIZATION OF THE SITE. THE CONSTRUCTION OF HARD SURFACES AND FINAL PAVEMENT, STRUCTURES AND UTILITIES ARE INSTALLED. THIS PHASE ESTABLISHES THE PERMANENT VEGETATION, RETENTION/DETENTION PONDS FACILITIES AND THE INSTALLATION OF ANY OUTLET PROTECTIONS, ENERGY DISSIPATORS ROCK CHECK DAMS, ETC. AT FINAL STABILIZATION, USEPA (1992) GUIDELINES STATES THAT PERMANENT VEGETATION MUST BE UNIFORMLY ESTABLISHED ON AT LEAST 70 PERCENT OF SOIL SURFACES NOT COVERED WITH EROSION-RESISTANT SURFACES (PAVEMENTS, BUILDINGS, ETC.). ALL PERMANENT DRAINAGE IMPROVEMENTS MUST BE INSTALLED AND TESTED TO VERIFY THAT THEY PERFORM AS DESIGNED. THE STORMWATER MANAGEMENT SYSTEM SHOULD BE CHECKED AND CLEANED OF ANY ACCUMULATED SEDIMENTS. TEMPORARY BMP'S NOT REQUIRED AS PART OF THE PERMANENT STABILIZATION OR BMP PLAN SHALL BE REMOVED AND PROPERLY DISPOSED OF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY AND ALL SEDIMENT, DEBRIS, ETC., FROM THE STORMWATER INLETS, PIPE SYSTEMS, RETENTION/DETENTION PONDS, ETC. AS MAY BE REQUIRED TO CREATE A FULLY FUNCTIONAL STORMWATER MANAGEMENT SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

OTHER POLLUTION SOURCES CONTROL NOTES

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

GENERAL NOTES

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

SITE NOTES

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

SITE LAYOUT NOTES

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

SITE GRADING & DRAINAGE NOTES

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

UTILITY NOTES

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

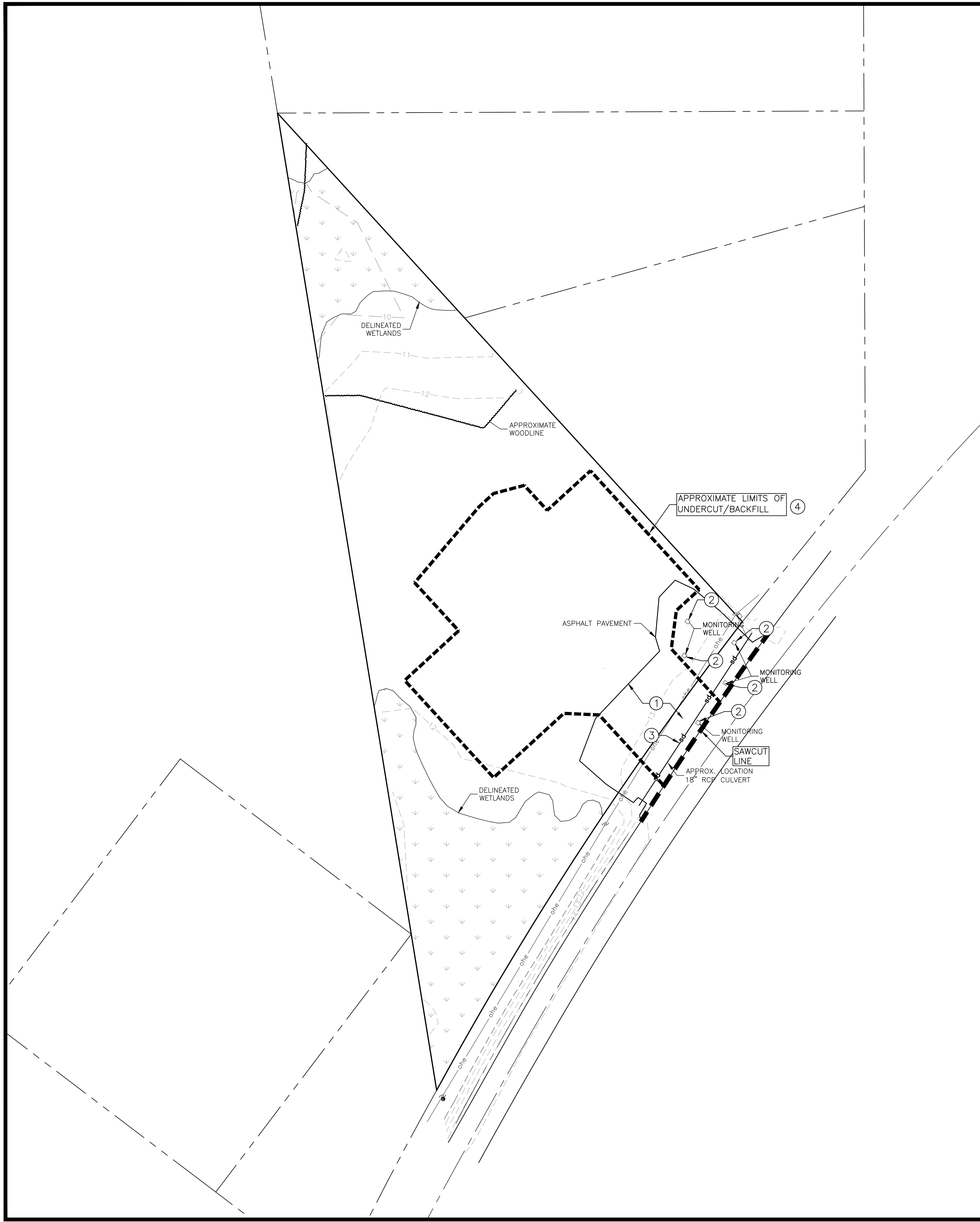
MISSISSIPPI ONE CALL

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

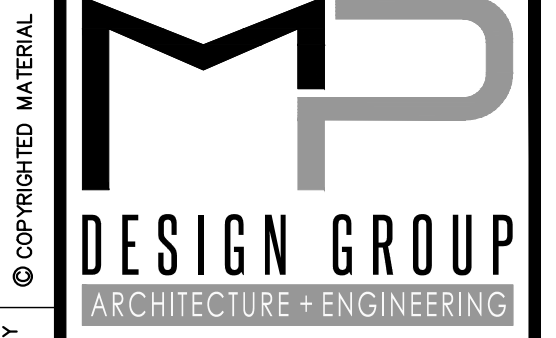
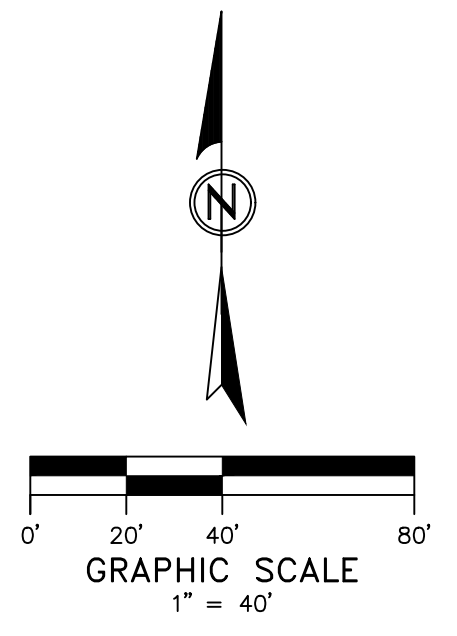
MISSISSIPPI ONE CALL SYSTEM
SERVICE AT:
1-800-227-6477
OR
www.ms811.org
AT LEAST 3 DAYS BEFORE ANY CONSTRUCTION

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS. © COPYRIGHTED MATERIAL. © 2024 MP DESIGN GROUP ARCHITECTURE + ENGINEERING. ALL RIGHTS RESERVED.

PRINTED: 3/22/2024 9:01 AM BY: Ben Sellers LAST SAVED: 3/22/2024 8:59 AM BY: Bsellers
 m:\0004_jackson county\0004.23.001_saracennia fire station\02-civil\03-production drawings_saracennia fire station_site_vehicle_tracking.dwg



- ### DEMOLITION NOTES
- ① CONTRACTOR SHALL SAWCUT AT LIMITS SHOWN AND REMOVE EXISTING ASPHALT PAVEMENT AND PAVEMENT SUBBASE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEBRIS RELATED TO THIS ITEM.
 - ② CONTRACTOR SHALL TAKE CAUTION WHEN REMOVING PAVEMENT AROUND MONITORING WELL. WELL SHALL BE RECAPPED WITH DUCTILE IRON PLATE READING "MONITORING WELL". NEW CAP SHALL BE FLUSH WITH PROPOSED CONCRETE PAVEMENT (SEE C200).
 - ③ CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING 18" DRAINAGE CULVERT. CONTRACTOR SHALL BACKFILL TRENCH TO PROPOSED GRADES AS REQUIRED WITH SELECT FILL LAID IN 8" MAX. LIFTS, COMPACTED TO 95% PER ASTM D698.
 - ④ MINIMUM 5' OUTSIDE OF BUILDING AND PAVEMENT FOOTPRINT SHALL BE UNDERCUT A MIN. OF 24" AND PROOF ROLLED. ANY SOFT SPOTS OR AREAS OF "PUMPING" SHALL BE CUT AND REPLACED WITH SELECT FILL. UPON PASSING OF PROOF ROLL, SITE SHALL BE BROUGHT TO PROPOSED GRADE WITH A SELECT FILL MATERIAL. FILL SHALL BE LAID IN MAX. 8" LIFTS COMPACTED TO 95% PER ASTM D698.



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION

JACKSON COUNTY

SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: BJS
 CHECKED BY: BJS

**EXISTING CONDITIONS &
 SITE DEMOLITION PLAN**

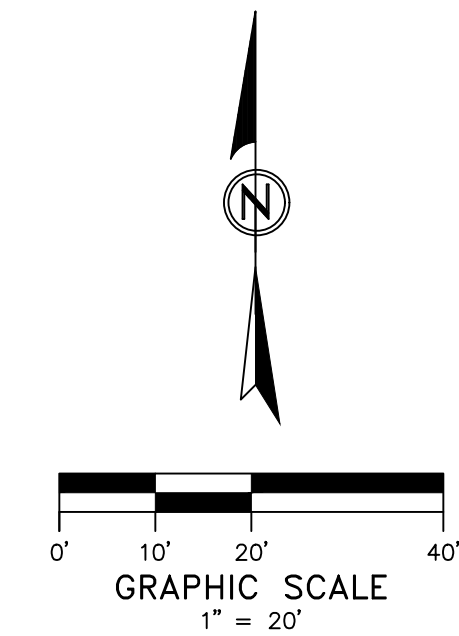
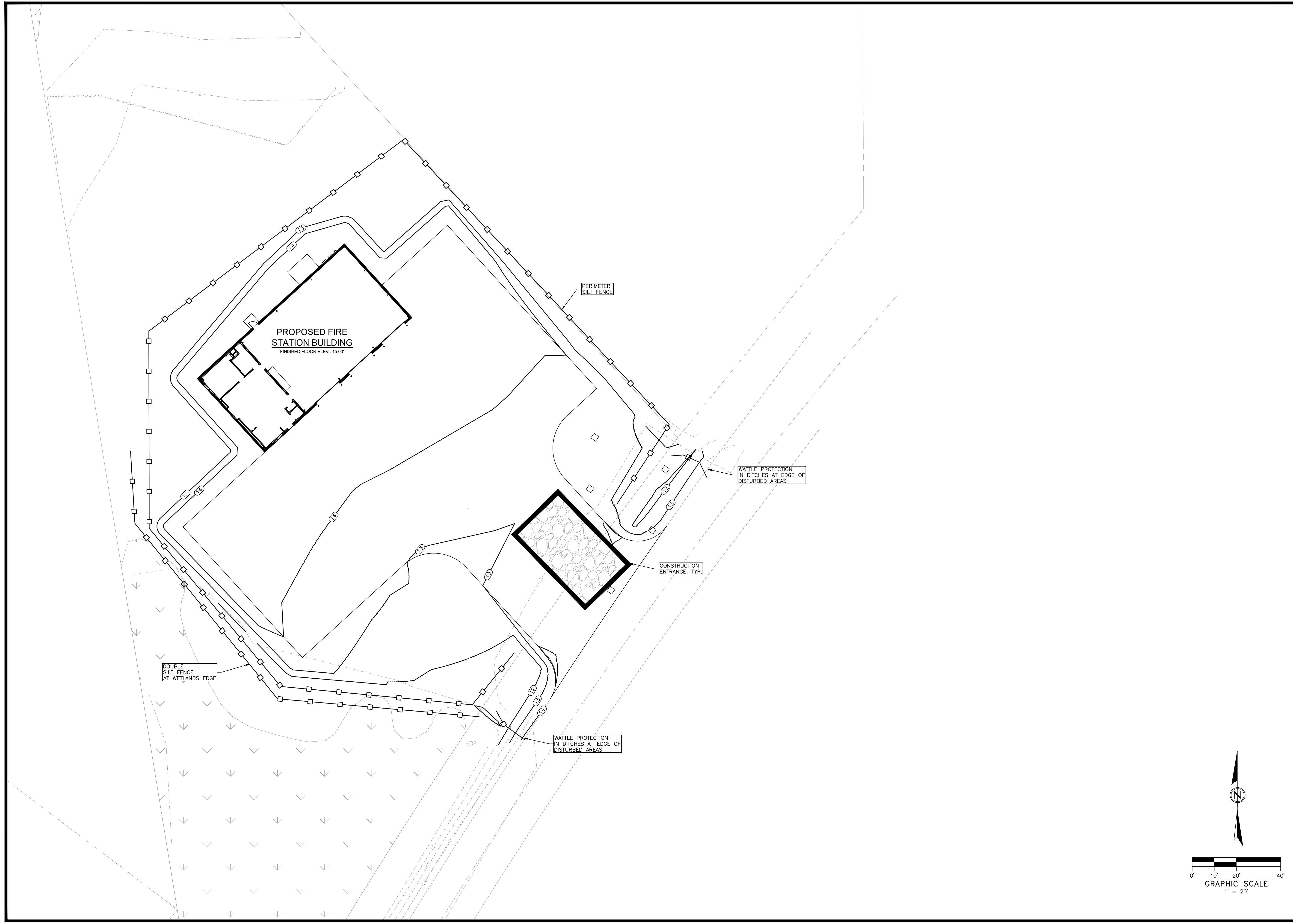
NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

C100

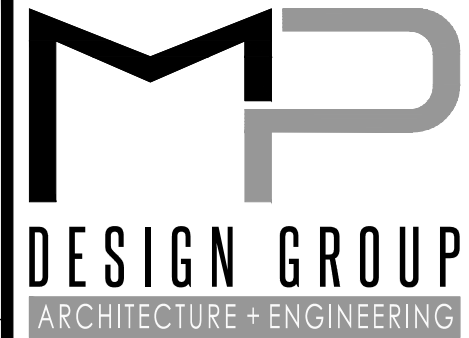
VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

PRINTED: 3/22/2024 9:01 AM BY: Ben Sellers LAST SAVED: 3/22/2024 8:59 AM BY: Bsellers
 m:\0004_jackson county\0004.23.001_saracennia fire station\02-civil\03-production\03-production drawings\saracennia fire station site_vehicle tracking.dwg



THE ORIGINAL, SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL, SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION

JACKSON COUNTY
 SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: BJS
 CHECKED BY: BJS

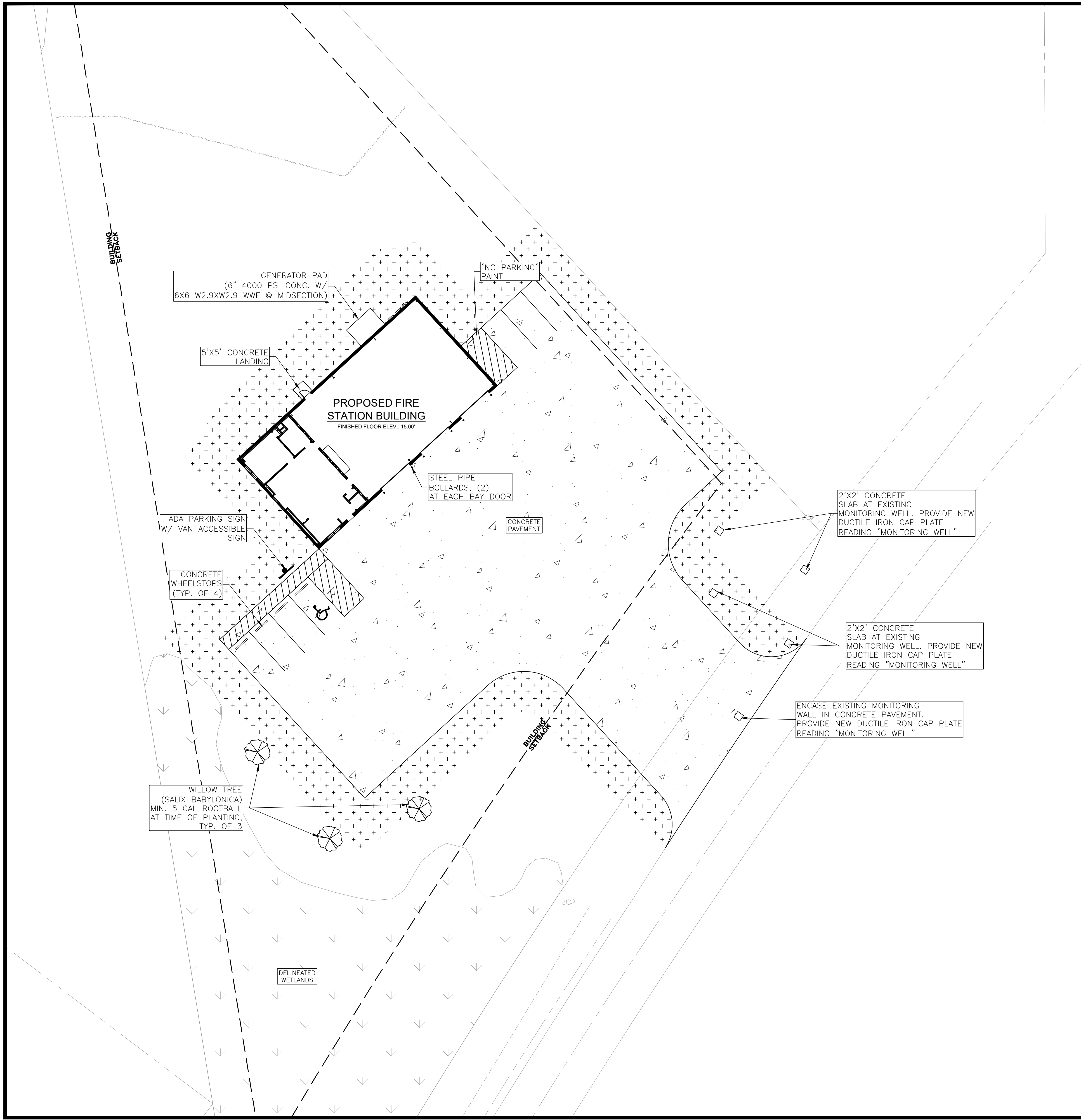
STORM WATER POLLUTION PREVENTION PLAN

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

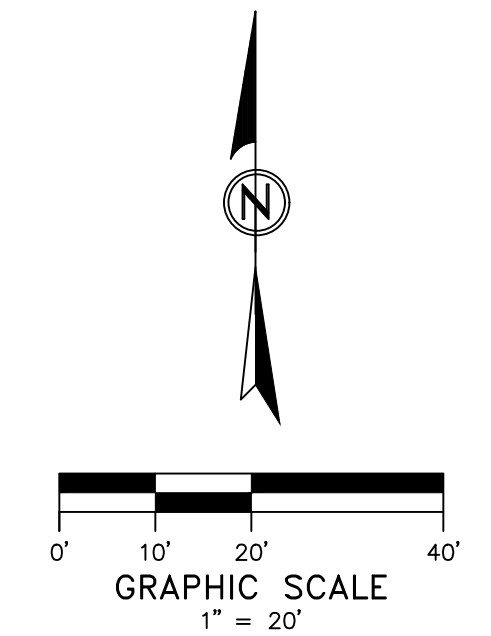
C110

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

PRINTED: 3/22/2024 9:01 AM BY: Ben Sellers LAST SAVED: 3/22/2024 8:59 AM BY: Bsellers
 m:\0004_jackson county\0004.23.001_saracennia fire station\02-civil\03-production drawings\saracennia fire station site_vehicle tracking.dwg



LEGEND	
	DENOTES HEAVY DUTY PAVEMENT
	DENOTES SOD (ALL OTHER DISTURBED AREAS TO RECEIVE SEED)



MP DESIGN GROUP
 ARCHITECTURE + ENGINEERING
 "Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION
 JACKSON COUNTY
 SARACENNIA RD, MOSS POINT, MS 39562

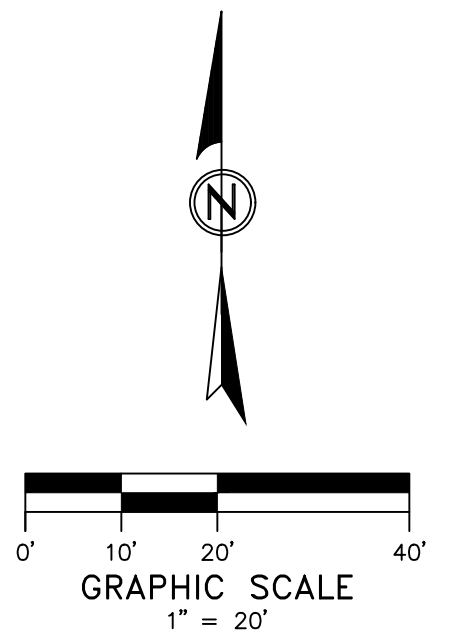
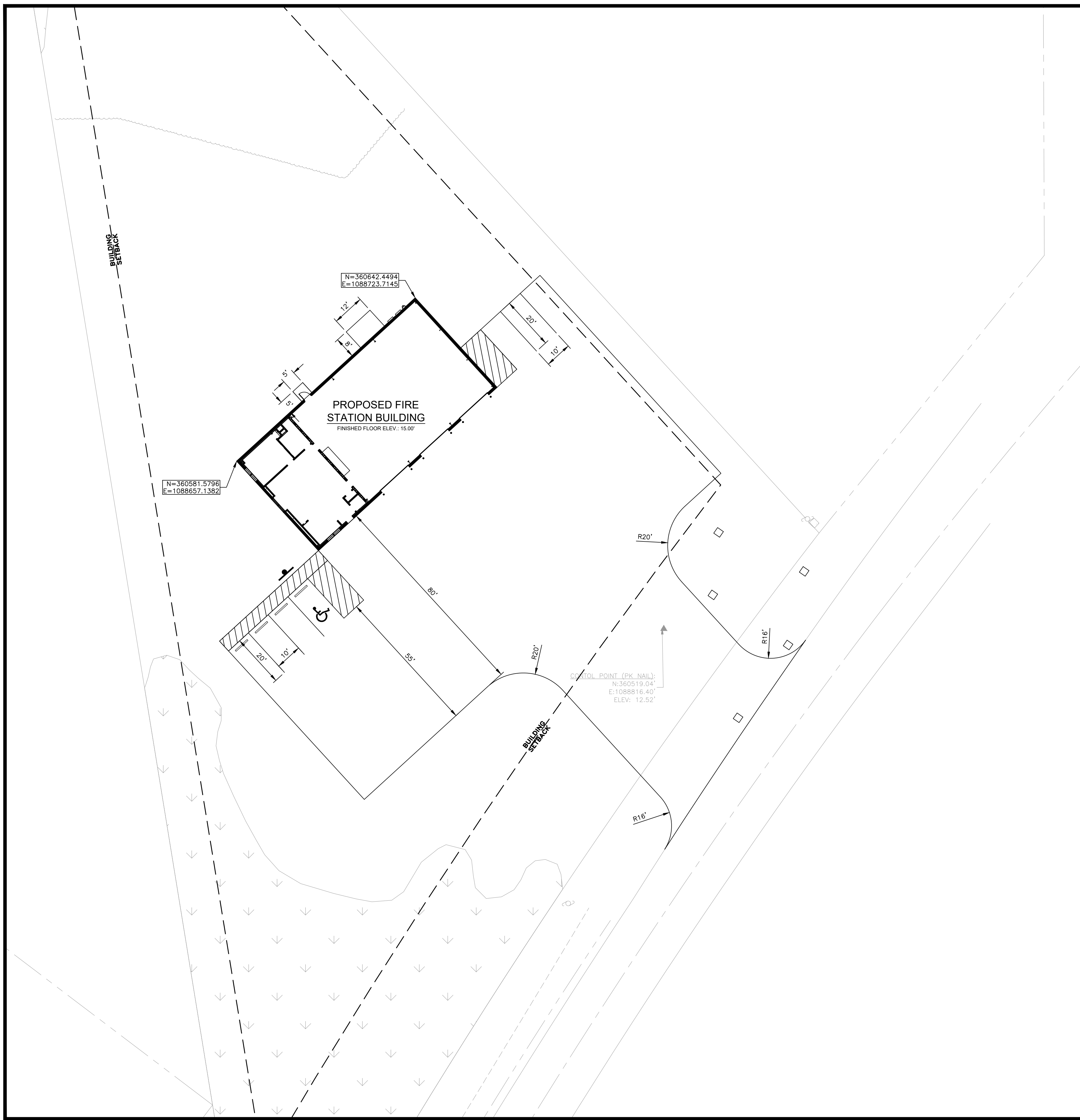
SCALE:	AS INDICATED
PROJECT NO:	0004.23.001
DRAWN BY:	BJS
CHECKED BY:	BJS

CIVIL SITE PLAN		
NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

C200

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

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL



MP
DESIGN GROUP
ARCHITECTURE + ENGINEERING

"Designed to Build"

918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

David J. Machado, PE
Brad P. Patano, PE
Gerrod W. Kilpatrick, PE
Bradford A. Jones, AIA



SARACENNIA FIRE STATION

JACKSON COUNTY

SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
PROJECT NO: 0004.23.001
DRAWN BY: BJS
CHECKED BY: BJS

SITE LAYOUT PLAN

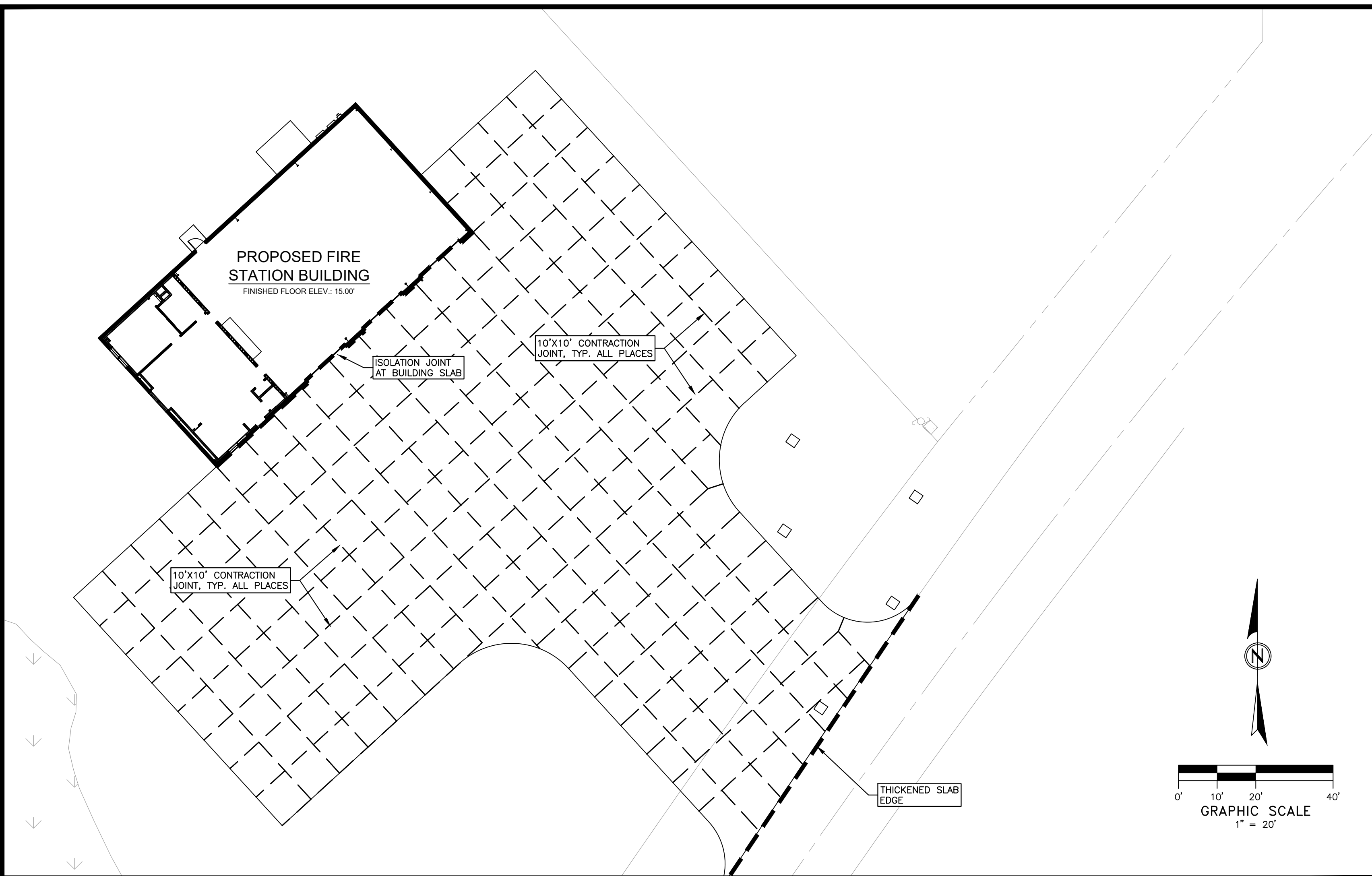
NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

C210

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

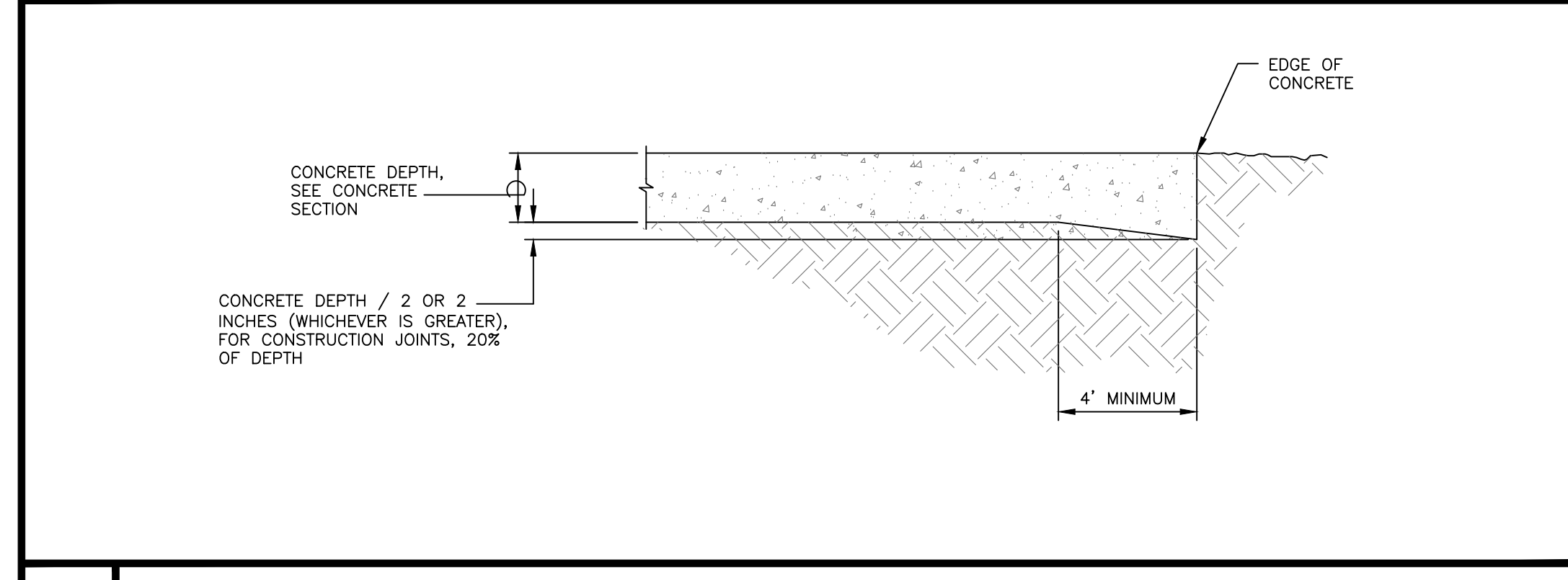
PRINTED: 3/22/2024 9:01 AM BY: Ben Sellers LAST SAVED: 3/22/2024 8:59 AM BY: Bsellers
 m:\0004_jackson county\0004.23.001_saracennia fire station\02-civil\03-production drawings\saracennia fire station site_vehicle tracking.dwg



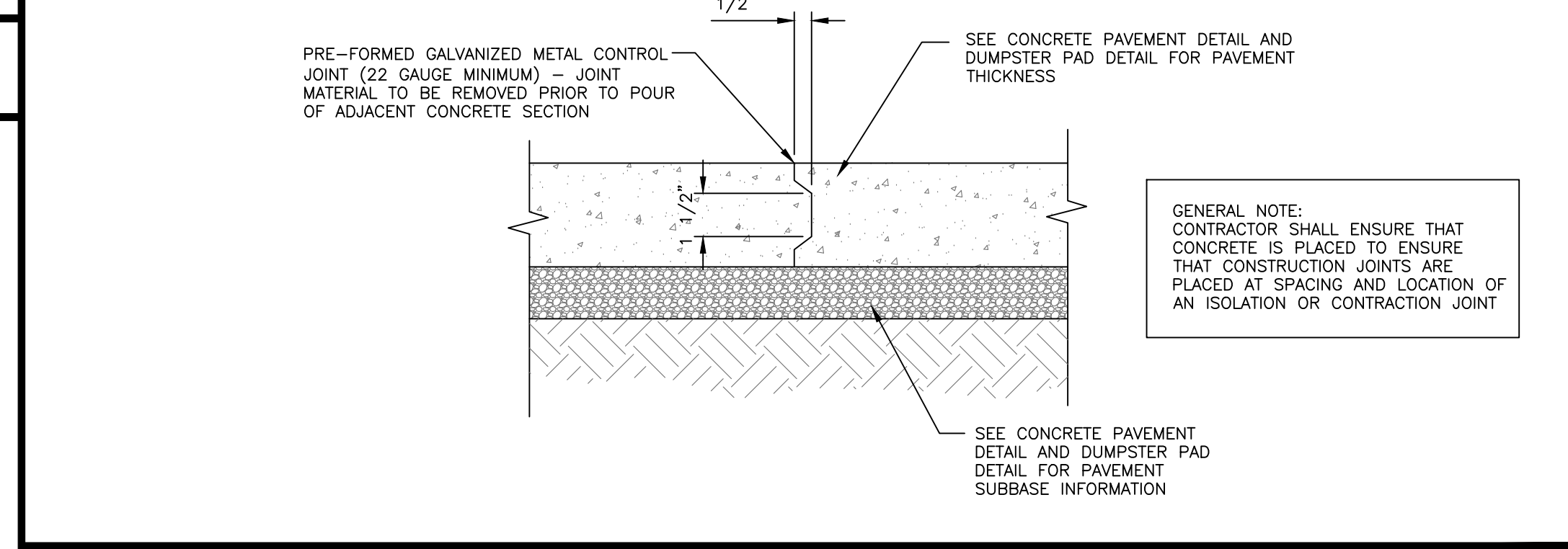
1 SITE CONCRETE JOINTING PLAN

1. CONTRACTOR SHALL CONFORM TO THE PROVIDED JOINT LAYOUT PLAN. CONTRACTOR SHALL PLAN POURS TO ENSURE THAT CONSTRUCTION JOINTS ARE PROVIDED AT LOCATIONS OF ISOLATION OR CONTRACTION JOINTS.
2. ALL JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 330R-08 OR SECTION 3.07 IN THE NRMCA GUIDE SPECIFICATIONS.
3. ISOLATION JOINTS SHALL BE APPLIED AROUND IN-PAVEMENT AND FIXED STRUCTURES, SUCH AS DRAINAGE INLETS, MANHOLES, LIGHTING STRUCTURES, FOOTINGS, ETC. AND AS NOTED ON PLANS.
4. JOINTS ARE TO ENTER CURVED EDGES WITH PERPENDICULAR CUTS.
5. JOINTS SHALL BE CUT WITHIN TWELVE (12) HOURS OF FINISHING CONCRETE.
6. CONTRACTION JOINT CUTS SHALL BE 1/4 OF THE PAVEMENT THICKNESS DEEP.
7. CONTRACTOR SHALL INSTALL CONSTRUCTION JOINTS AT THE END OF ONE PLACEMENT AND THE BEGINNING OF A SECOND PLACEMENT. LOCATION SHALL BE PLANNED AS NOTED IN NOTE 1 ABOVE.
8. CONTRACTOR SHALL PROVIDE A THICKENED PAVEMENT EDGE AT BOTH SIDES OF ALL CONSTRUCTION JOINTS. THICKENED EDGE SHALL BE 20% OF SLAB THICKNESS OR 2 INCHES, WHICHEVER IS GREATER.
9. PROVIDE THICKENED EDGE ALL ALL AREAS WHERE CONCRETE TERMINATES (i.e. INTERSECTIONS) AND WHERE SHOWN ON PLAN.
10. CONTRACTOR SHALL CONTINUE CONTRACTION JOINTS THROUGH CURB AND GUTTER TO HELP ELIMINATE SYMPATHY CRACKS.
11. IF EDGE RESTRAINTS ARE NOT USED, TIE BARS SHOULD BE PLACED AT THE FIRST LONGITUDINAL JOINT.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ISOLATION JOINTS AROUND ALL IN PAVEMENT AND FIXED STRUCTURES AS NOTED ABOVE WHETHER THEIR LOCATION IS SHOWN ON THIS PLAN OR NOT. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAID JOINTS IRREGARDLESS OF WHETHER STRUCTURES ARE SHOWN ON THIS PLAN.
13. A PREFORMED JOINT FILLER MATERIAL OCCUPIES THE GAP BETWEEN THE STRUCTURE AND PAVEMENT.
14. FILLER MATERIAL IS A BITUMEN - TREATED FIBER BOARD, (SEE DETAIL)
15. JOINT SEALER IS APPLIED ABOVE THE FILLER MATERIAL AND AT EACH CONTRACTION JOINT.
16. RECOMMENDED JOINT PLAN MUST BE REVISED TO ACCOMMODATE CONSTRUCTION JOINTS.

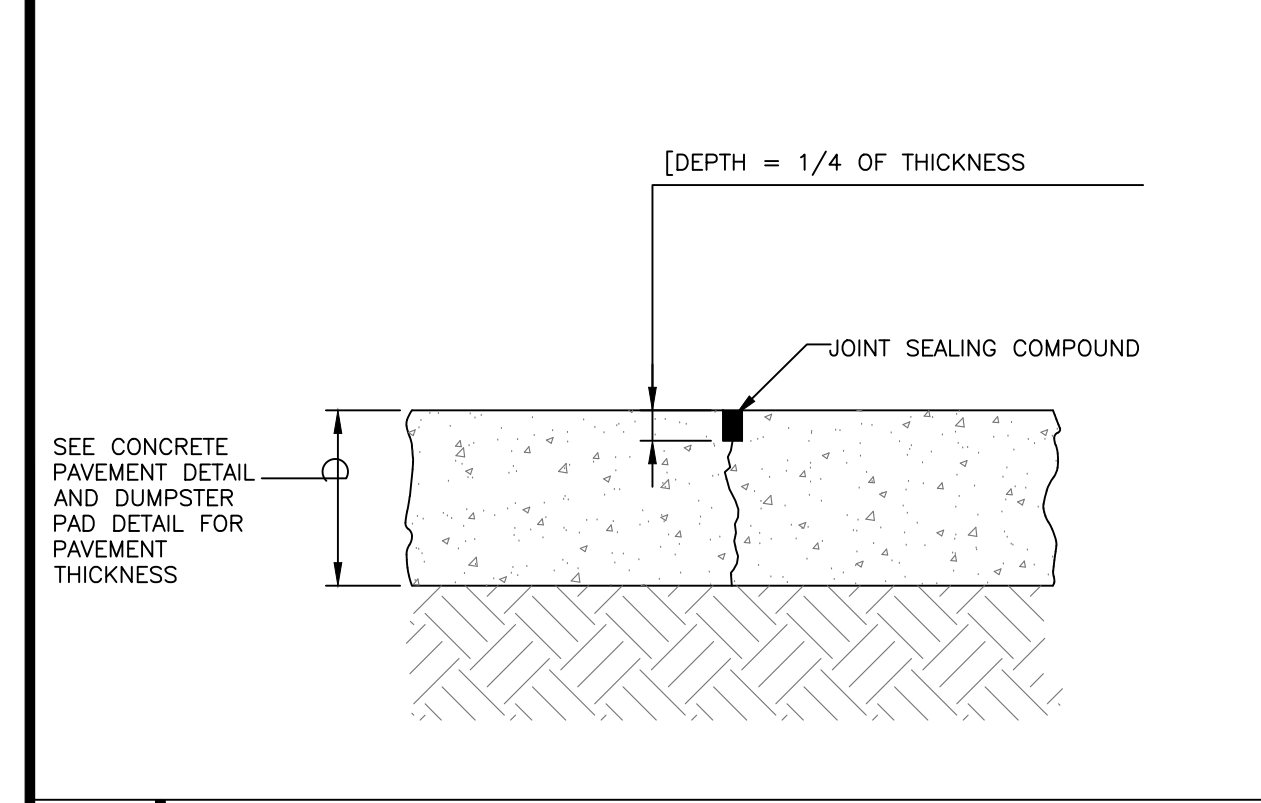
2 GENERAL JOINTING NOTES



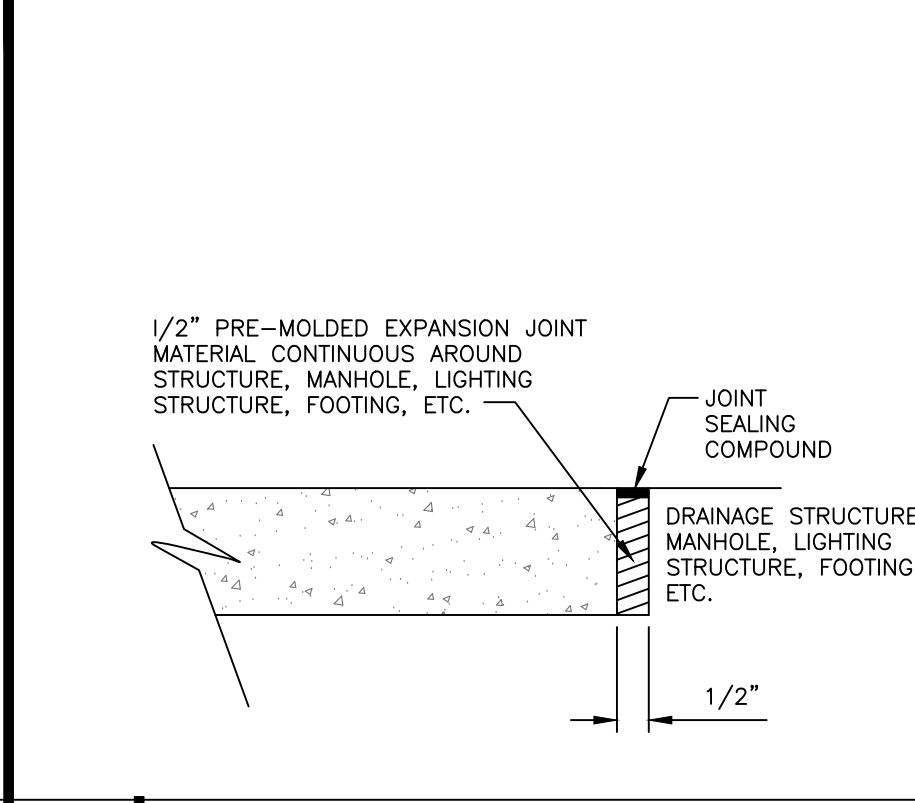
3 THICKENED SLAB DETAIL NOT TO SCALE



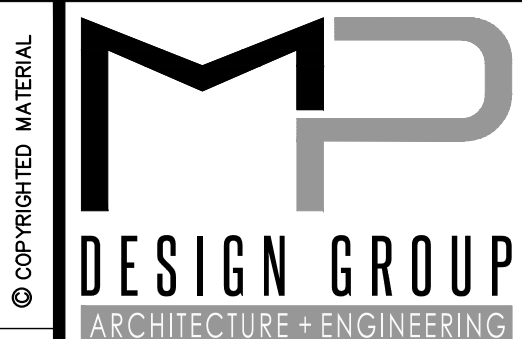
4 PRE-FORMED GALVANIZED METAL CONSTRUCTION JOINT DETAIL NOT TO SCALE



5 CONTRACTION JOINT DETAIL NOT TO SCALE



6 ISOLATION JOINT DETAIL NOT TO SCALE




DESIGN GROUP
ARCHITECTURE + ENGINEERING

"Designed to Build"

918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION

JACKSON COUNTY

SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED	
PROJECT NO: 0004.23.001	
DRAWN BY: BJS	
CHECKED BY: BJS	

SITE JOINTING PLAN AND DETAILS	
NO.	REVISION / SUBMITTAL
REV 0	ISSUED FOR CONSTRUCTION
REV 0	04.07.24

C220

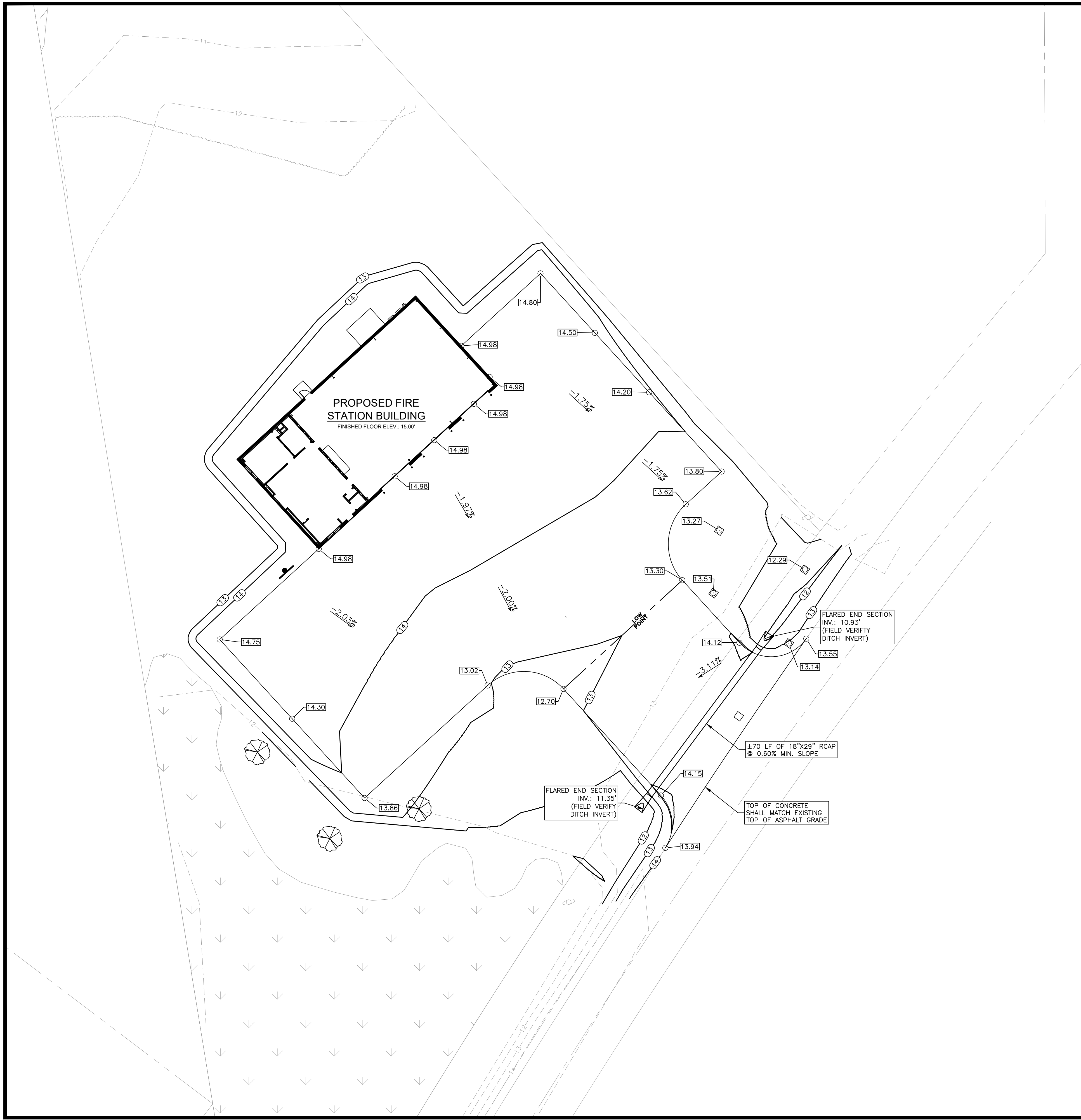
VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

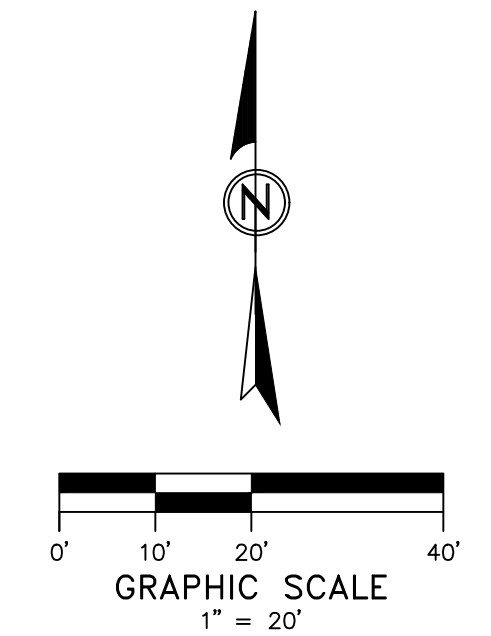
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS, THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAW. © COPYRIGHTED MATERIAL

PRINTED: 3/22/2024 9:01 AM BY: Ben Sellers LAST SAVED: 3/22/2024 8:59 AM BY: Bsellers
 m:\0004_jackson county\0004.23.001_saracennia fire station\02-civil\03-production\03-production drawings\saracennia fire station site_vehicle tracking.dwg



GRADING LEGEND	
	DENOTES PROPOSED SPOT ELEVATIONS
	DENOTES EXISTING GRADE CONTOUR
	DENOTES FINISHED GRADE CONTOUR
	DENOTES WATERSHED FLOW DIRECTION
	DENOTES GRADING RIDGE LINE



MP DESIGN GROUP
 ARCHITECTURE + ENGINEERING
 "Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION
 JACKSON COUNTY
 SARACENNIA RD, MOSS POINT, MS 39562

SCALE:	AS INDICATED
PROJECT NO:	0004.23.001
DRAWN BY:	BJS
CHECKED BY:	BJS

SITE GRADING AND DRAINAGE PLAN

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

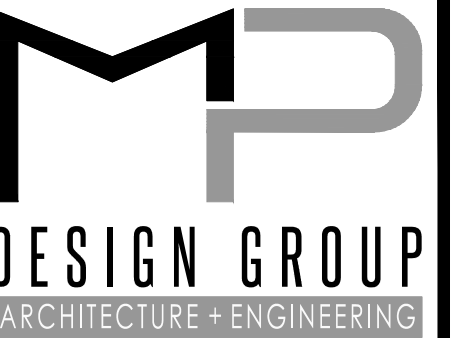
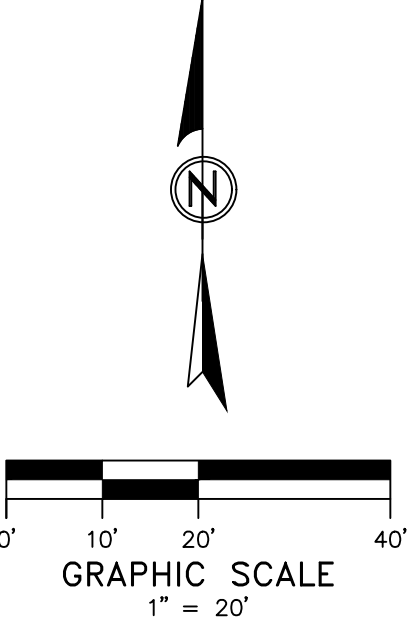
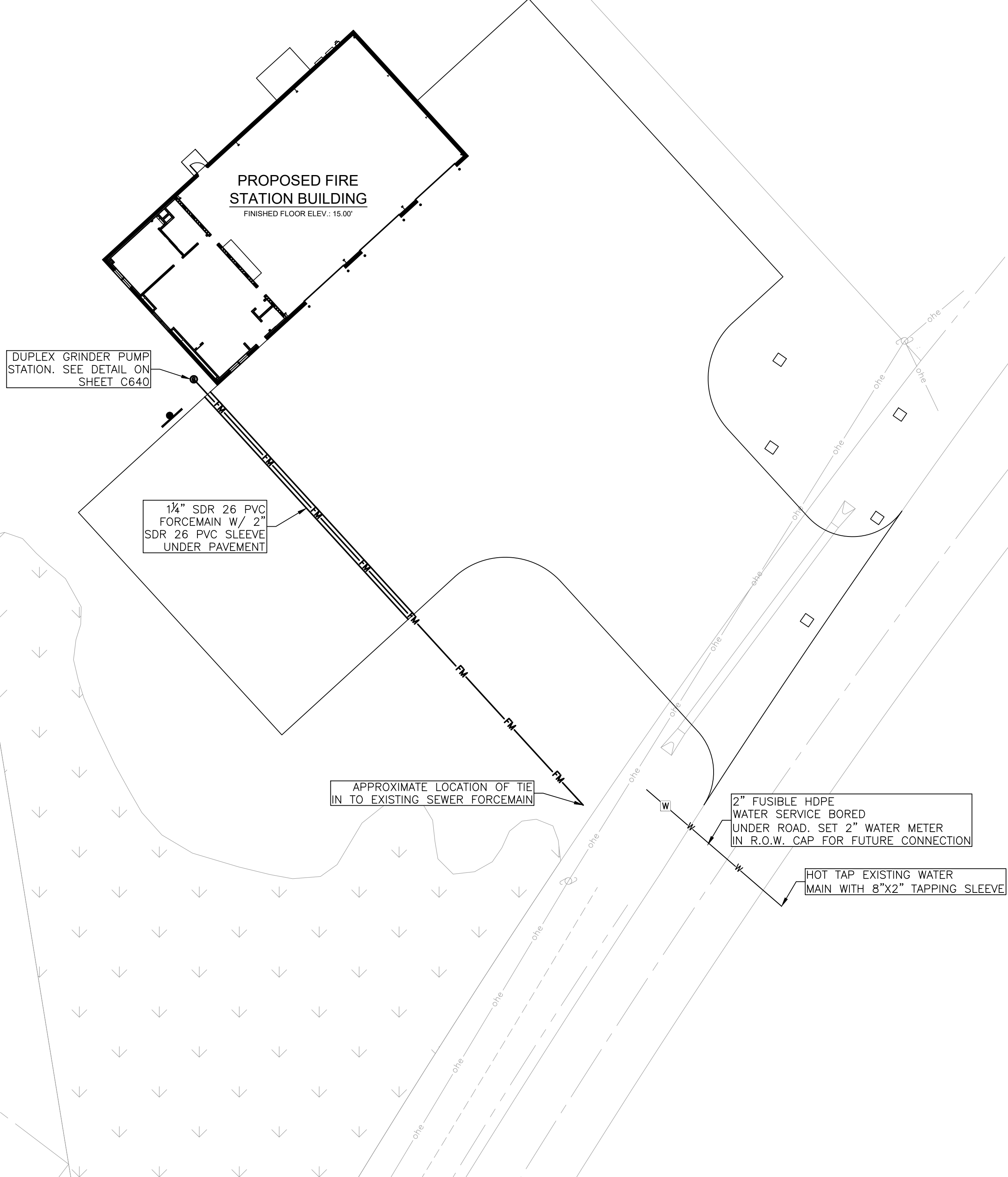
C300
 VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL, SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL, SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS, THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

PRINTED: 3/22/2024 9:01 AM BY: Ben Sellers LAST SAVED: 3/22/2024 8:59 AM BY: Bsellors
 m:\0004_jackson county\0004.23.001_saracennia fire station\02-civil\03-production drawings\saracennia fire station site_vehicle_tracking.dwg

UTILITY PLAN NOTE

ALL UTILITY RELATED WORK SHOWN ON THIS PLAN IS TO BE PERFORMED BY HELENA UTILITY DISTRICT. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH HELENA UTILITY DISTRICT ON COMMENCEMENT OF WORK SHOWN ON THIS PLAN. HELENA UTILITY DISTRICT SHALL BE PAID FOR THIS WORK VIA SPEC SECTION 012100 - ALLOWANCES 1.03-C UTILITY CONNECTION ALLOWANCE.



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION
 JACKSON COUNTY
 SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: BJS
 CHECKED BY: BJS

SITE UTILITY PLAN
 UTILITY DISTRICT SCOPE

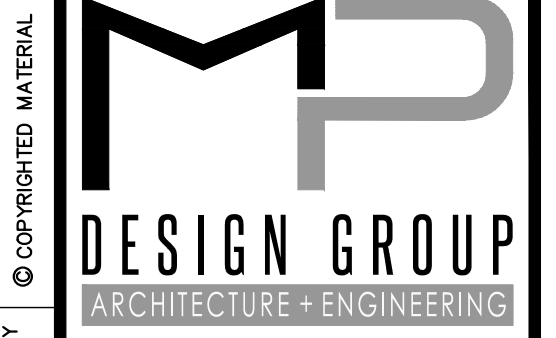
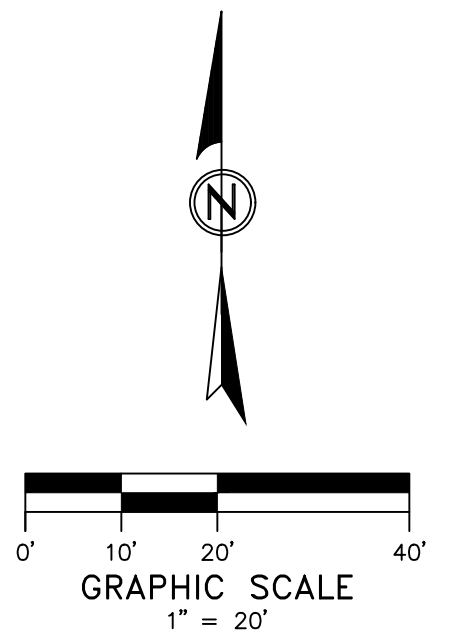
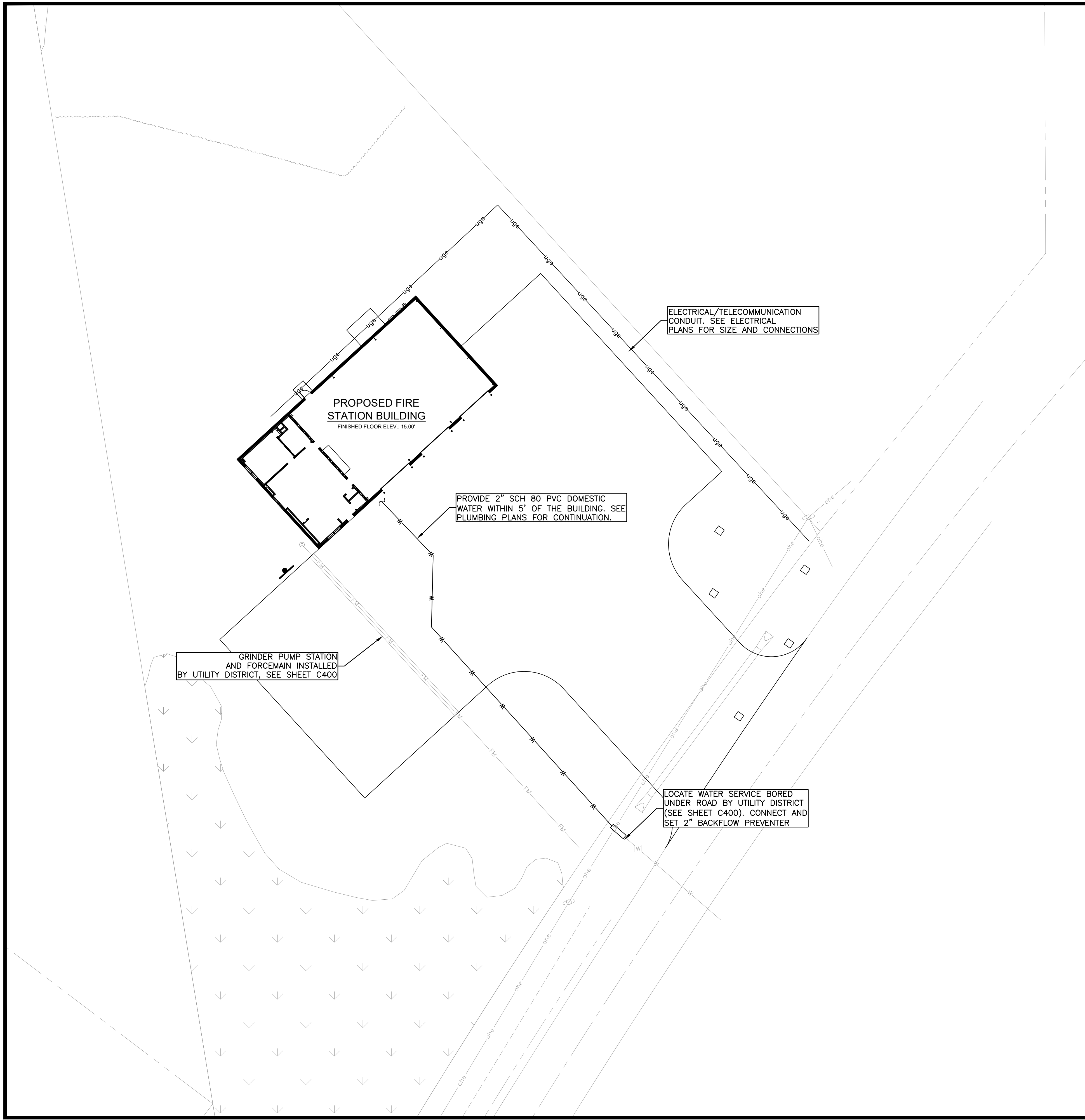
NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

C400

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

THE ORIGINAL, SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL, SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

PRINTED: 3/22/2024 9:01 AM BY: Ben Sellers LAST SAVED: 3/22/2024 8:59 AM BY: Bsellers
 m:\0004_jackson county\0004.23.001_saracennia fire station\02-civil\03-production drawings\saracennia fire station site_vehicle tracking.dwg



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION

JACKSON COUNTY

SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: BJS
 CHECKED BY: BJS

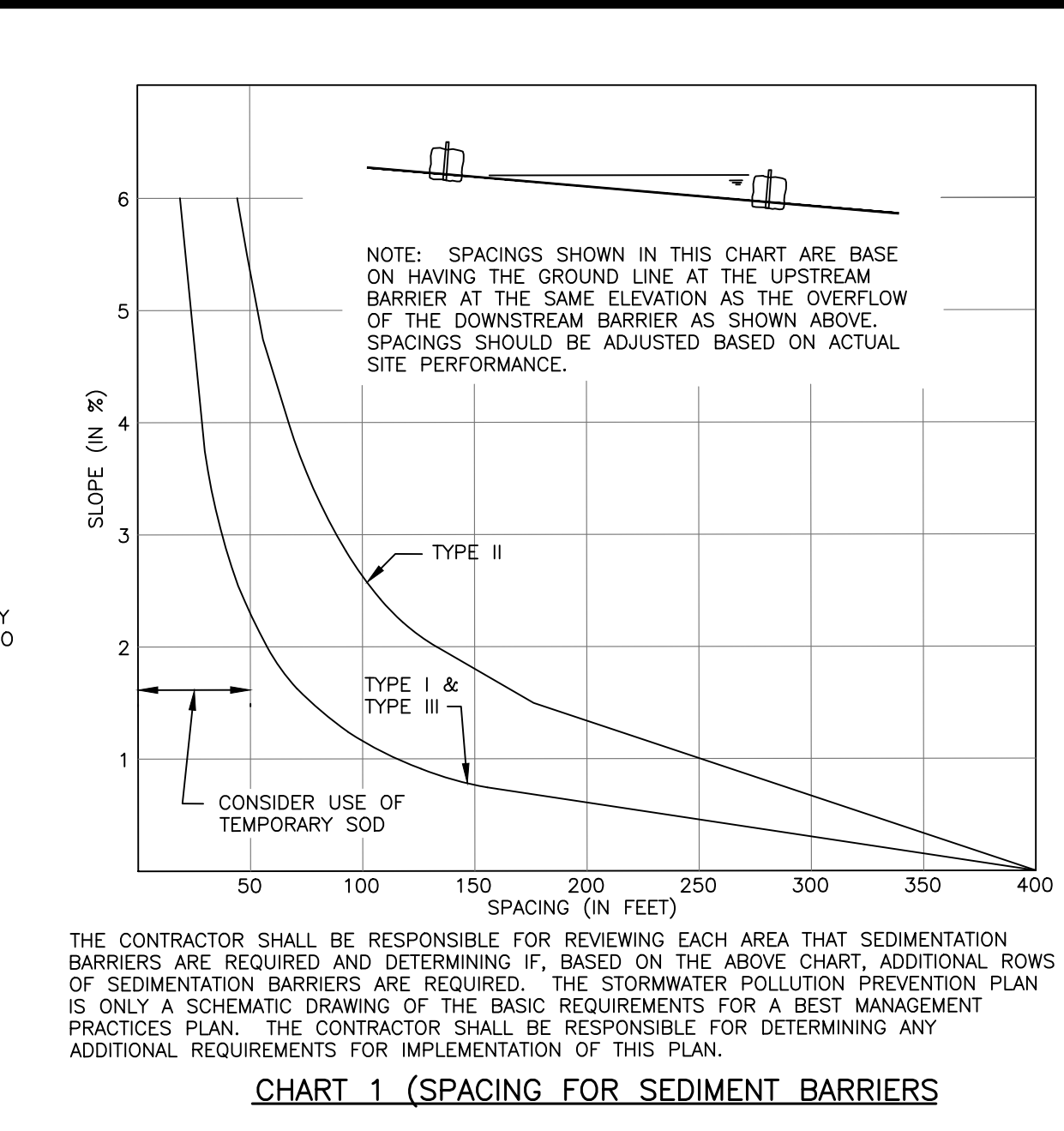
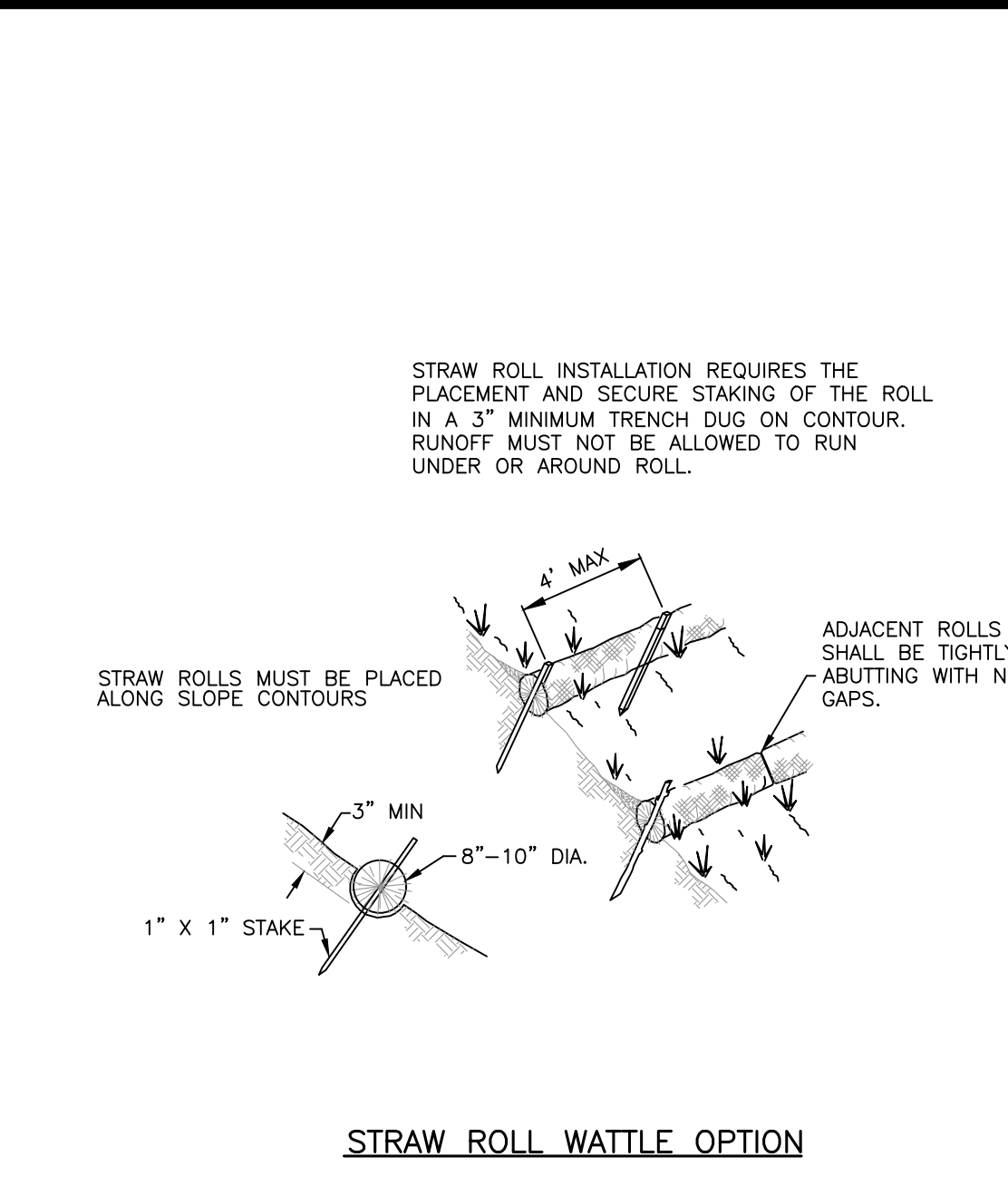
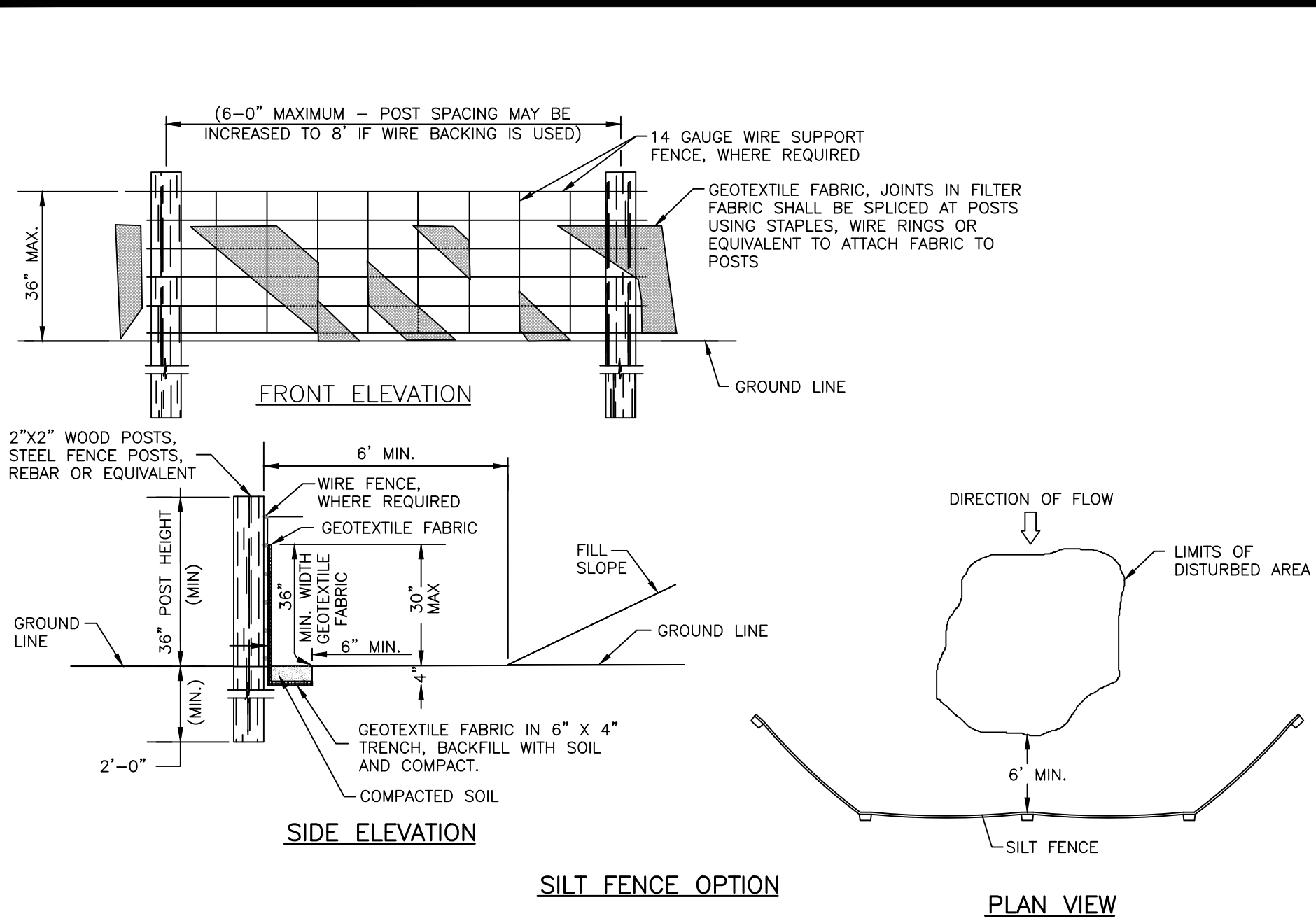
SITE UTILITY PLAN

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

C401

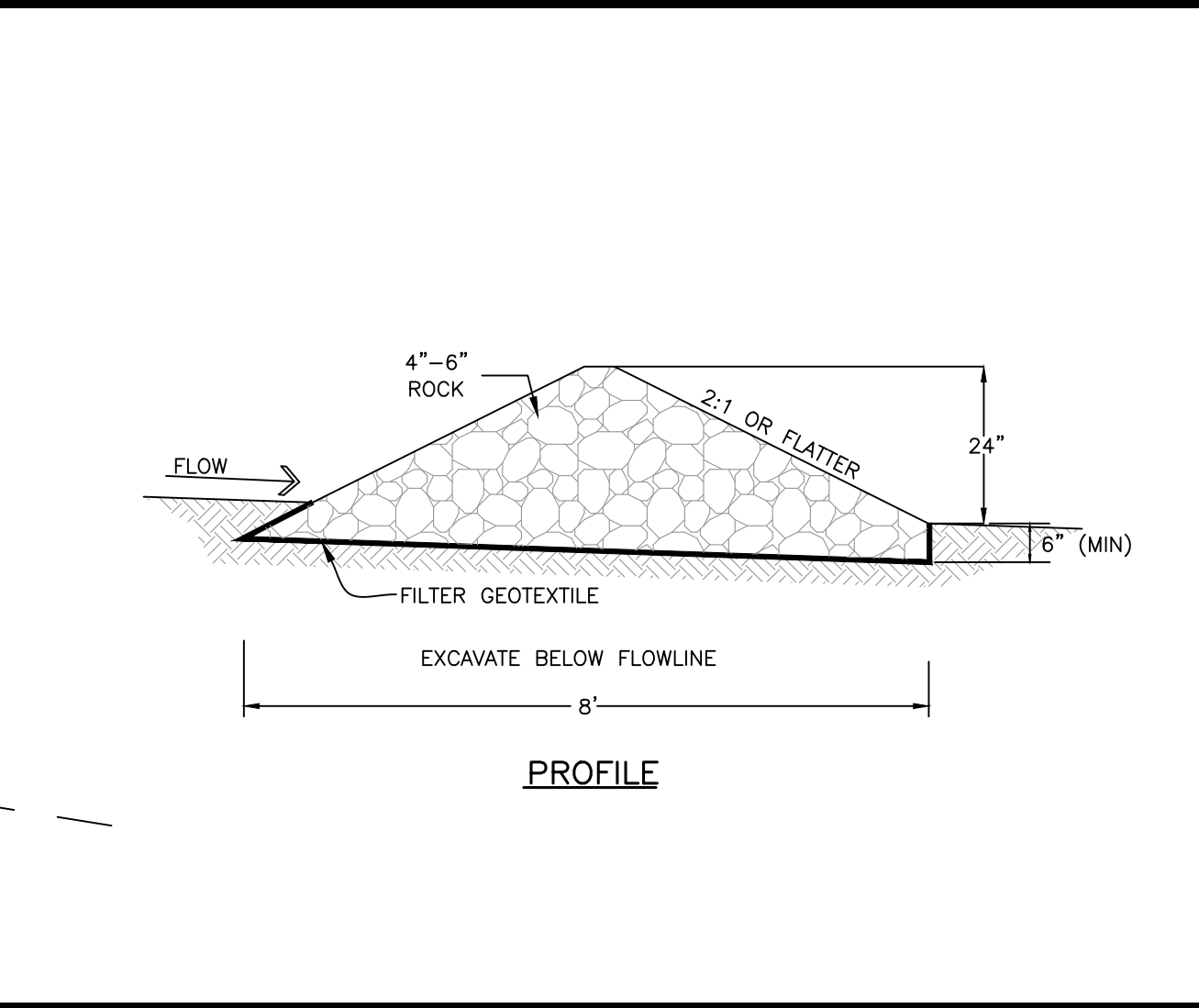
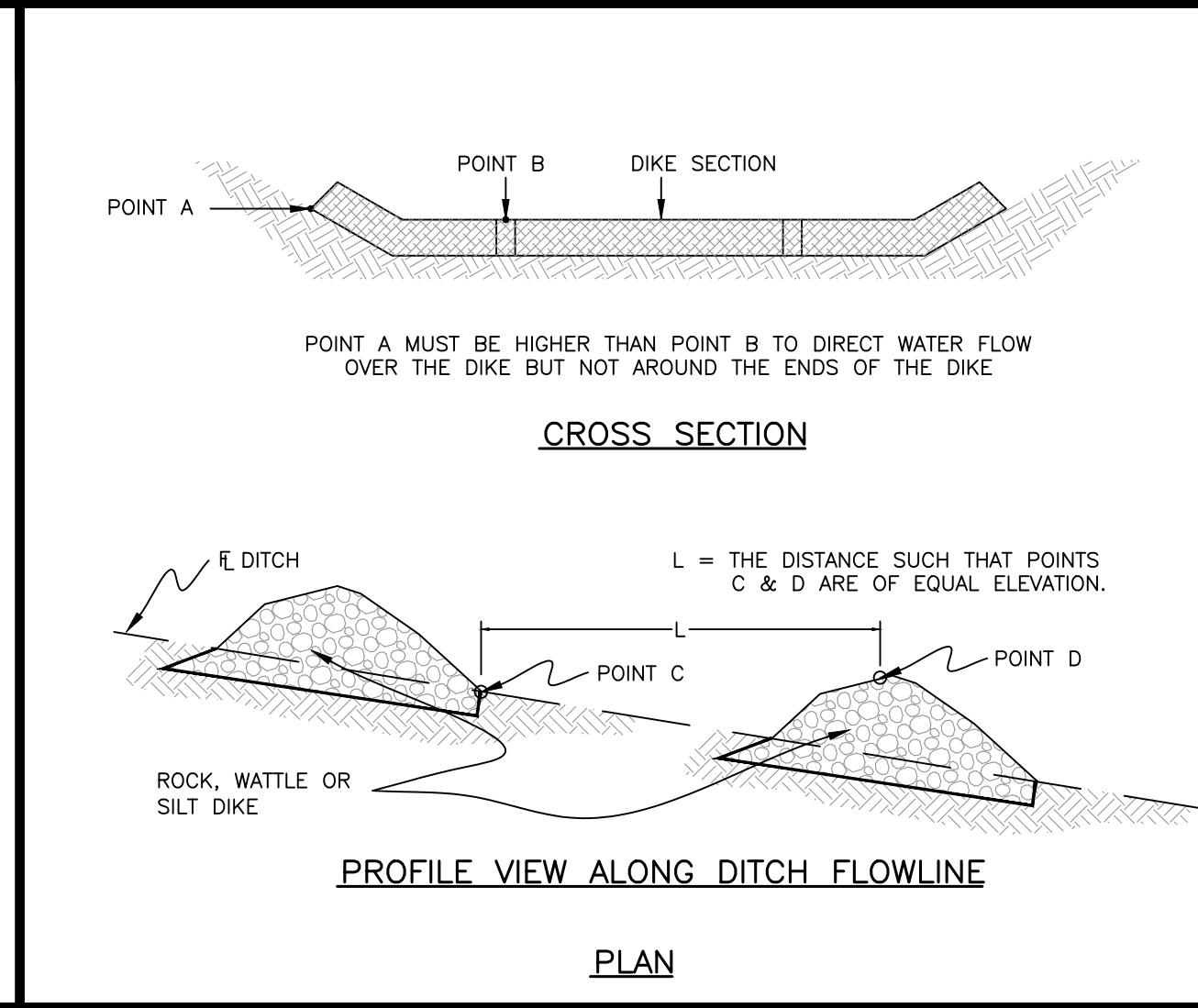
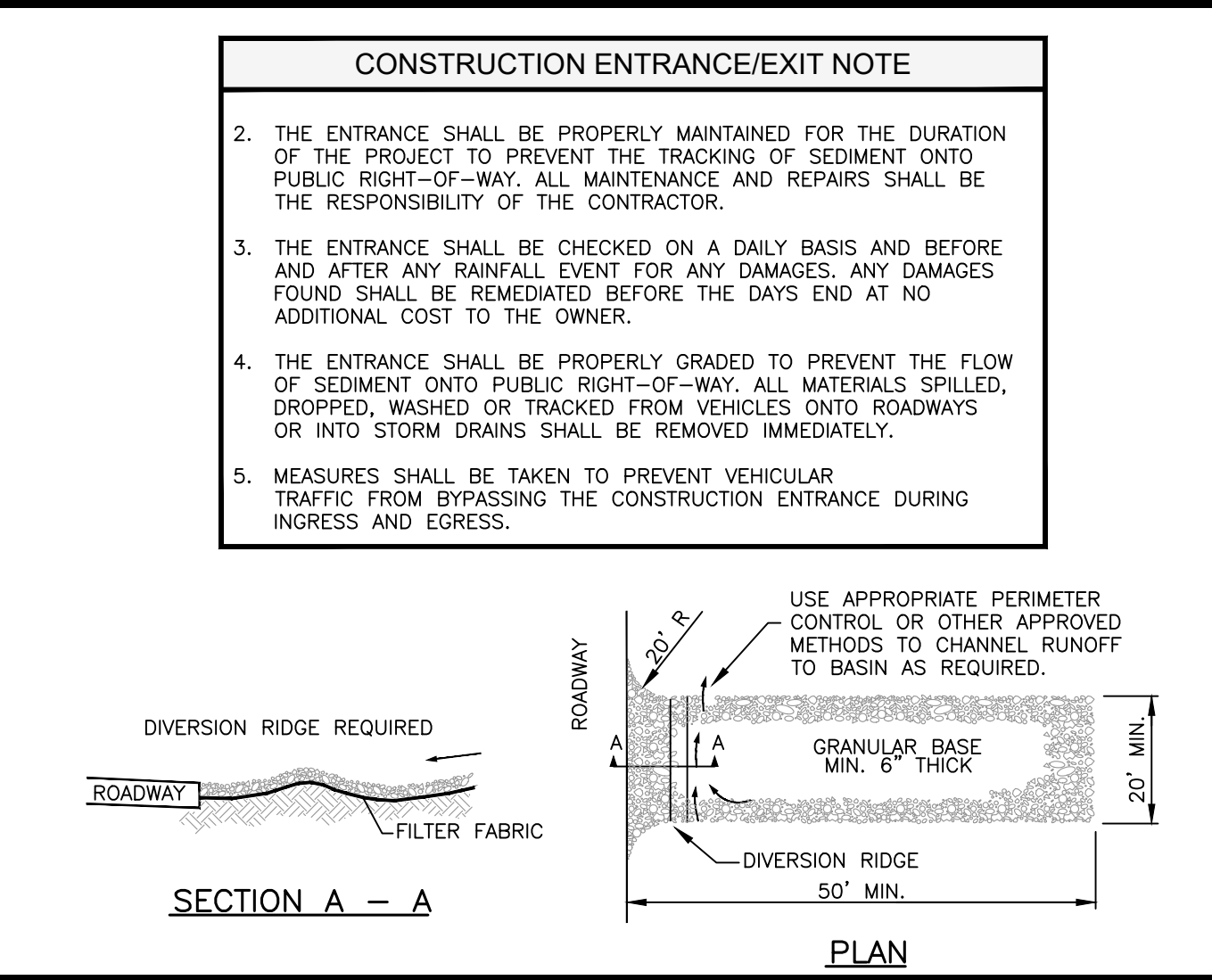
VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL



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

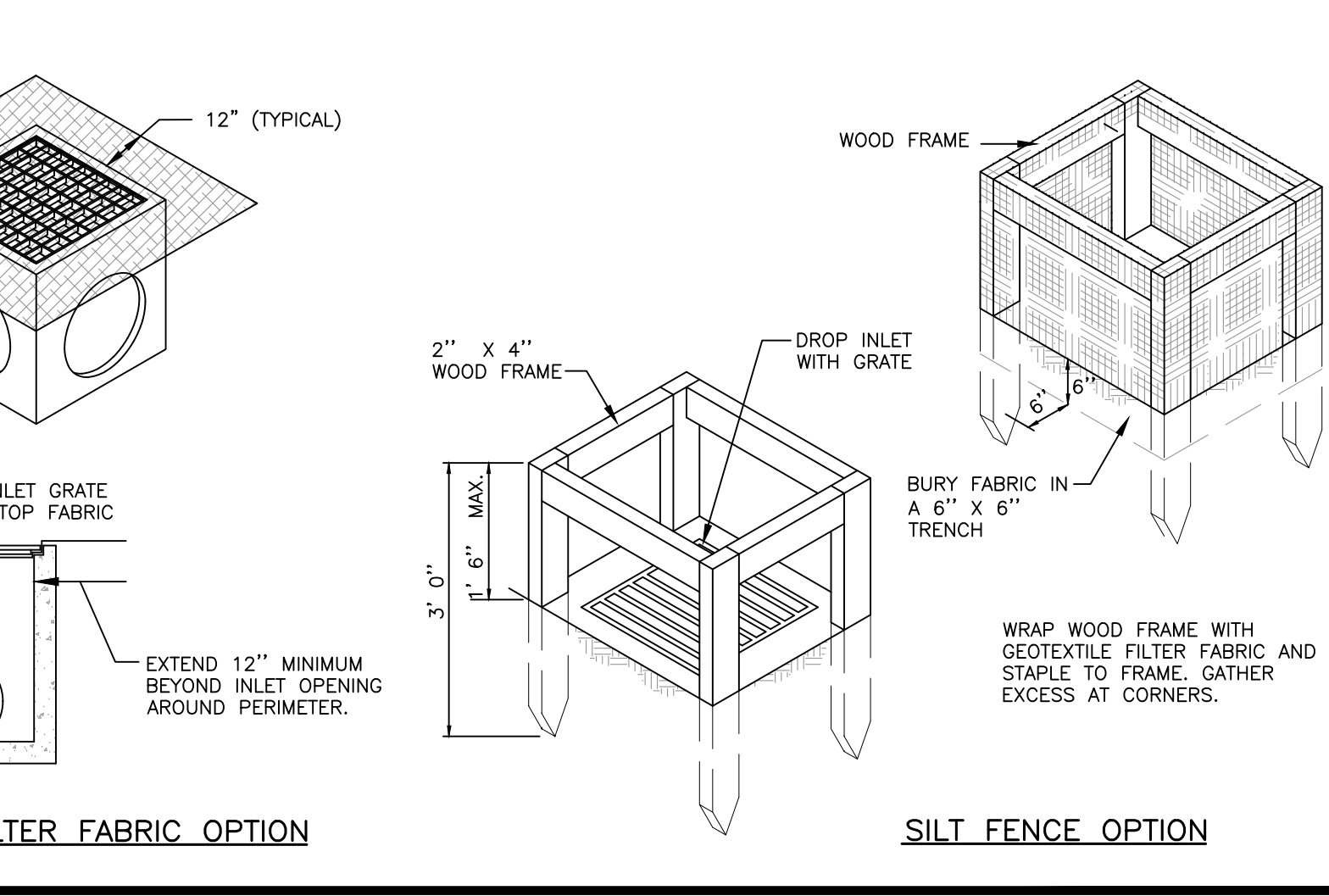
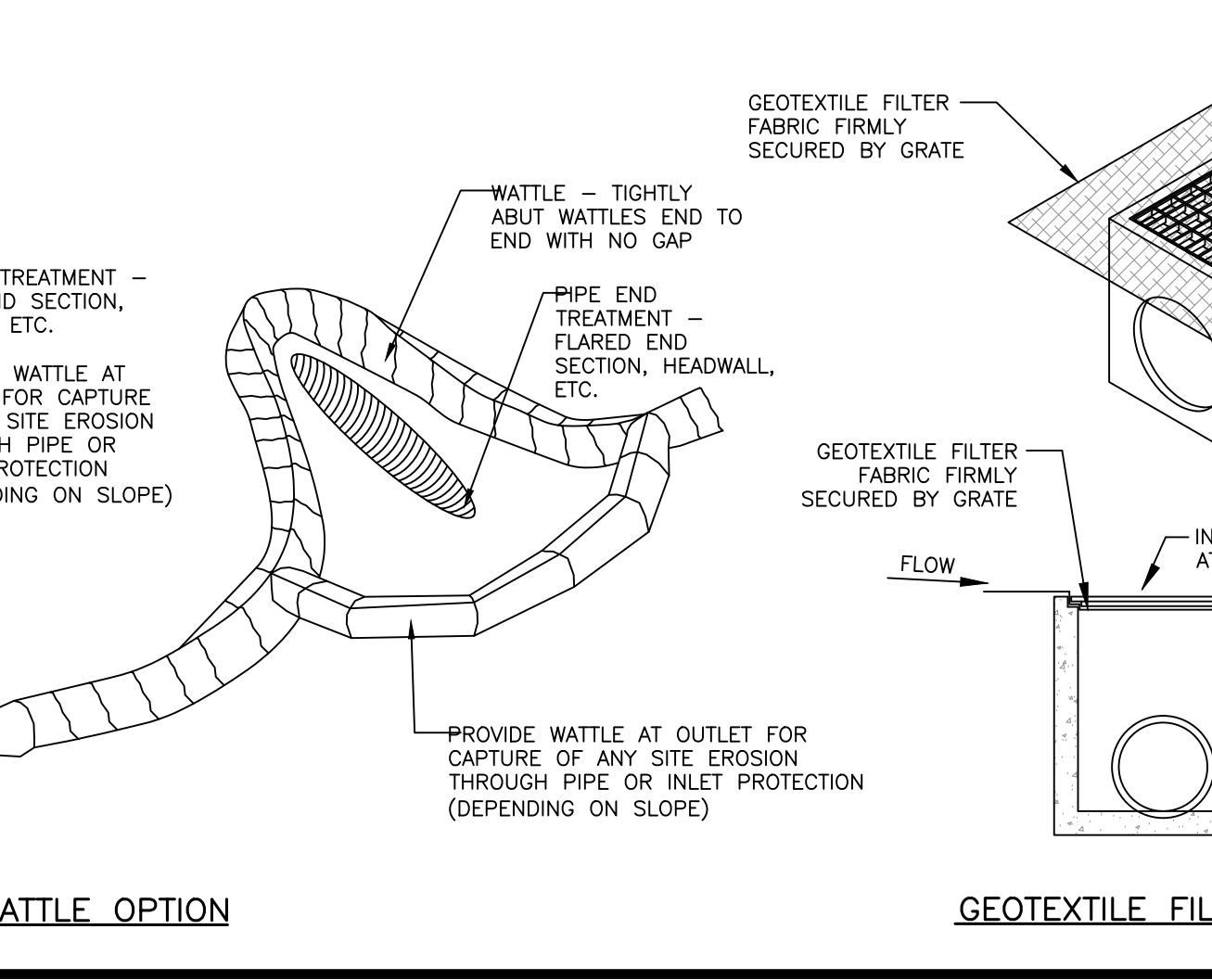
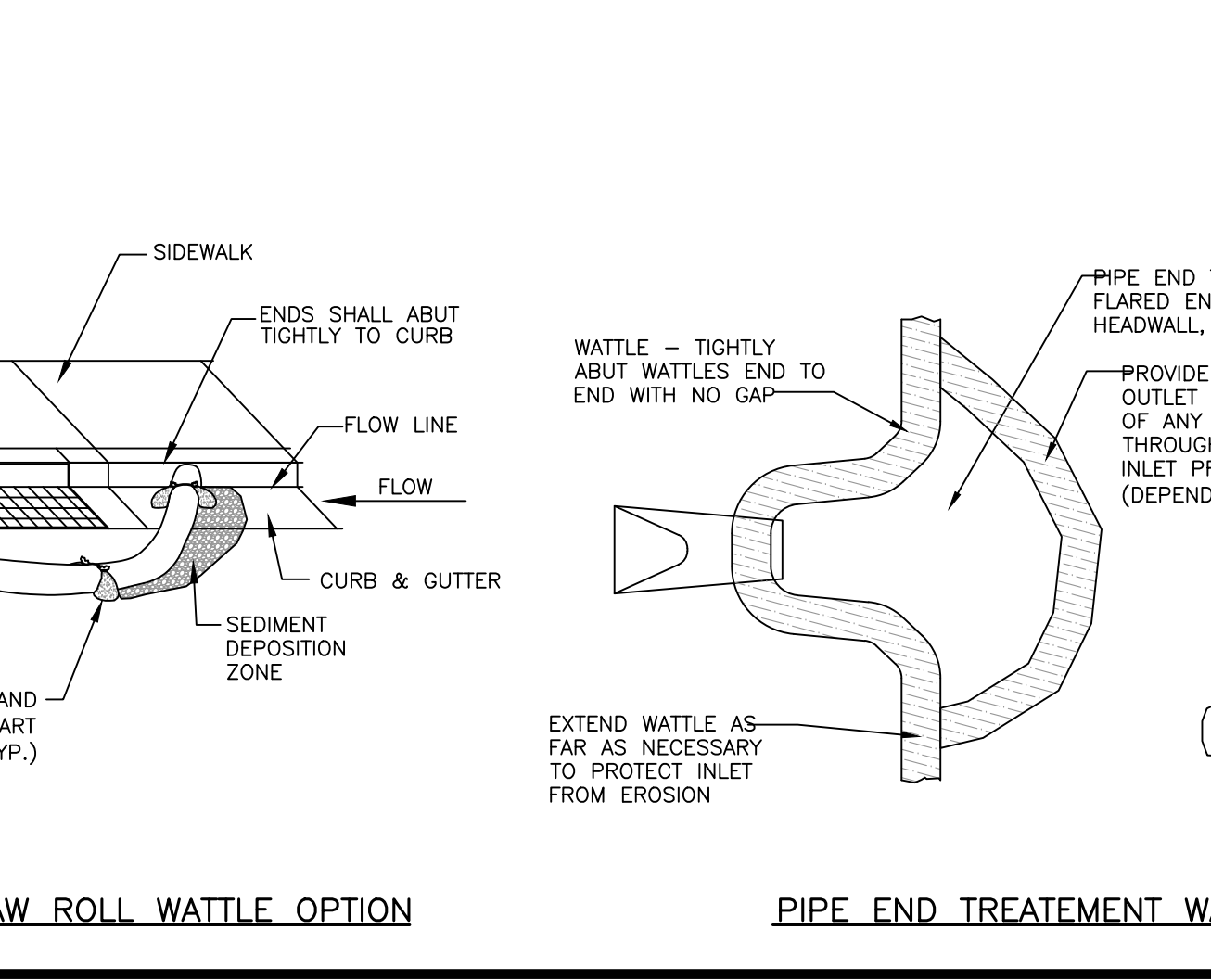
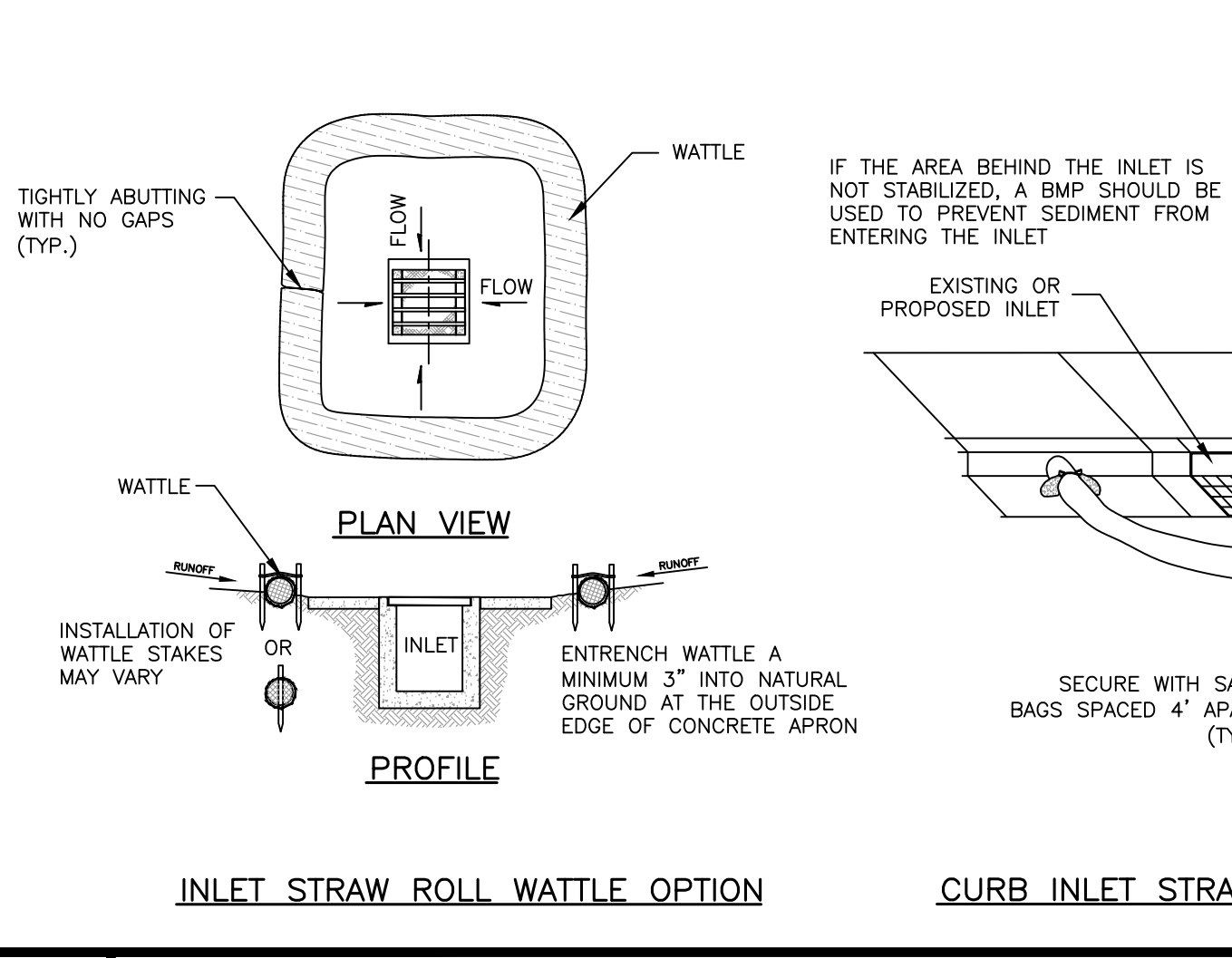
1 PERIMETER CONTROL DETAILS NOT TO SCALE



2 CONSTRUCTION ENTRANCE/EXIT DETAIL NOT TO SCALE

3 CHECK DAM PLACEMENT DETAIL NOT TO SCALE

4 TREE PROTECTION PLACEMENT DETAIL NOT TO SCALE



5 TYPICAL INLET PROTECTION DETAILS NOT TO SCALE

MP DESIGN GROUP
 ARCHITECTURE + ENGINEERING
 "Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA

SARACENIA FIRE STATION
 JACKSON COUNTY
 SARACENIA RD., MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: BJS
 CHECKED BY: BJS

STORM WATER POLLUTION PREVENTION DETAILS

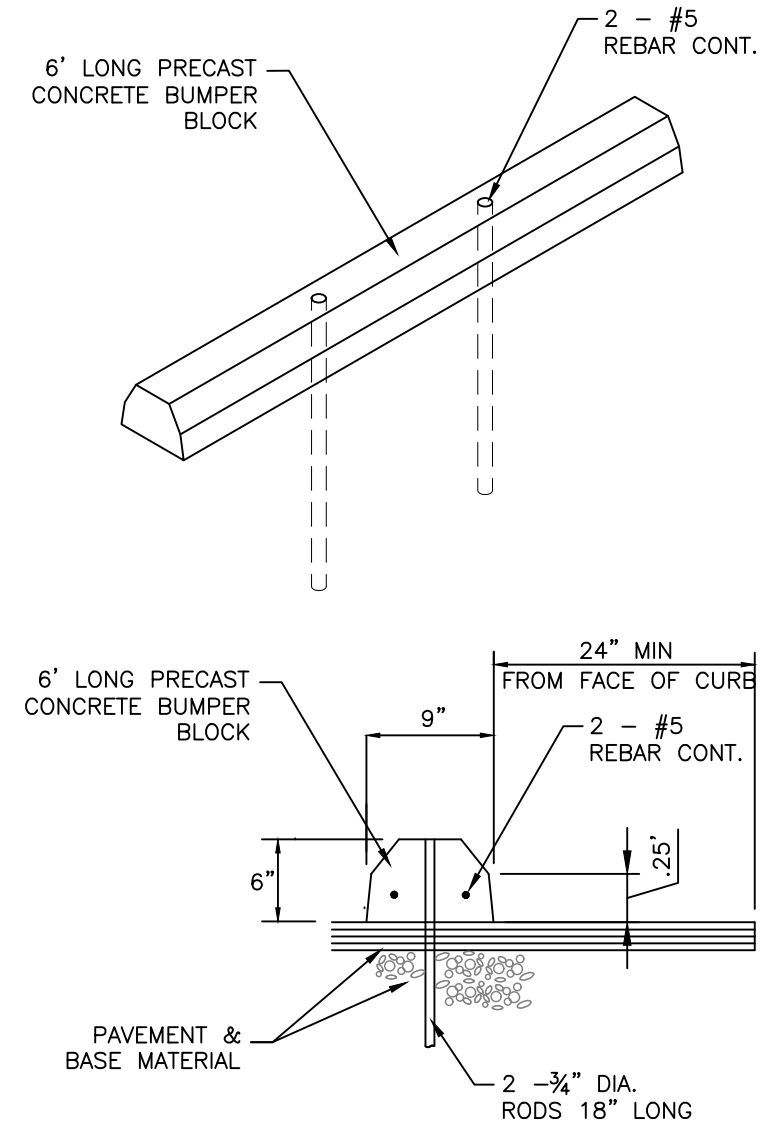
NO.	REVISION / SUBMITAL	DATE
REV 0	ISSUED FOR CONSTRUCTION	04.07.24

C610
 VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PRINTED: 3/22/2024 9:01 AM BY: Ben Sellers LAST SAVED: 3/22/2024 8:59 AM BY: Bsellers
 m:\0004_jackson county\0004.23.001_saracenia fire station\02-civil\03-production drawings\saracenia fire station_site_vehicle_tracking.dwg

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

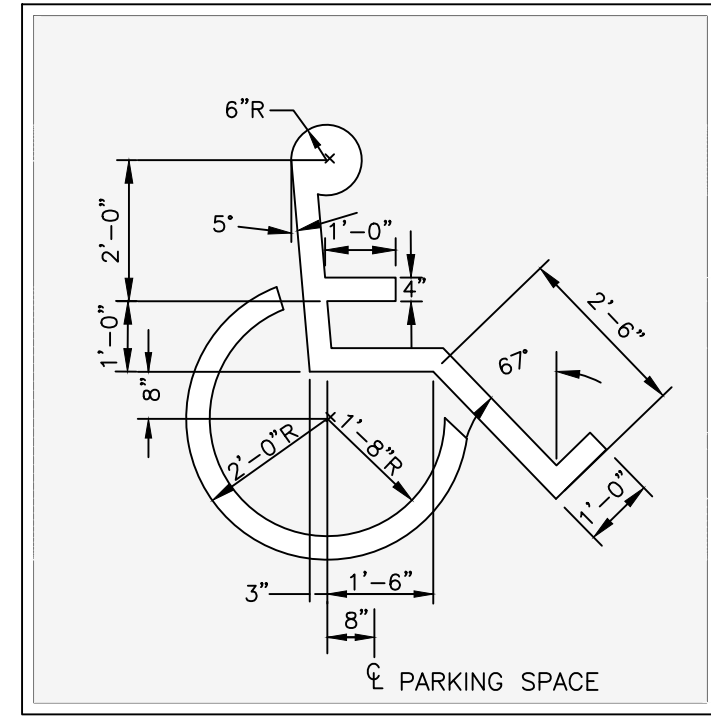
PRINTED: 3/22/2024 9:02 AM BY: Ben Sellers LAST SAVED: 3/22/2024 8:59 AM BY: Bsellers
 m:\0004_jackson county\0004.23.001_saracennia fire station\02-civil\03-production\03-production drawings\saracennia fire station site_vehicle tracking.dwg



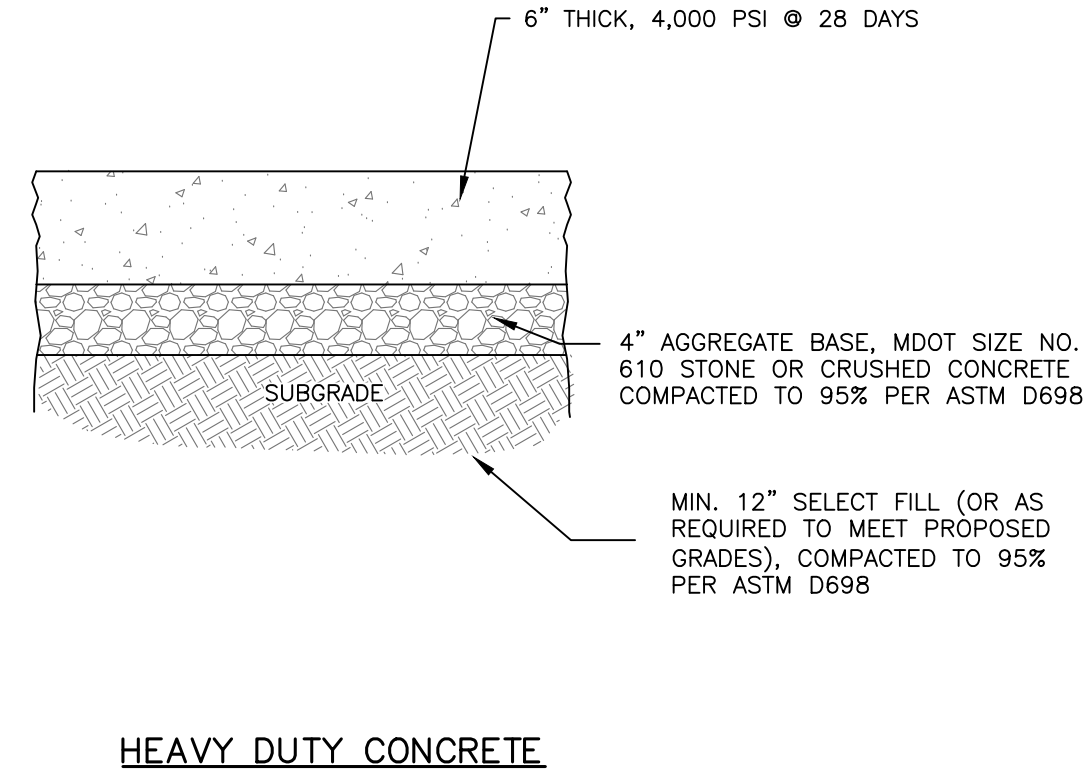
1 PRECAST CONCRETE WHEEL STOP DETAIL NOT TO SCALE

HANDICAP SYMBOL DETAIL NOTES

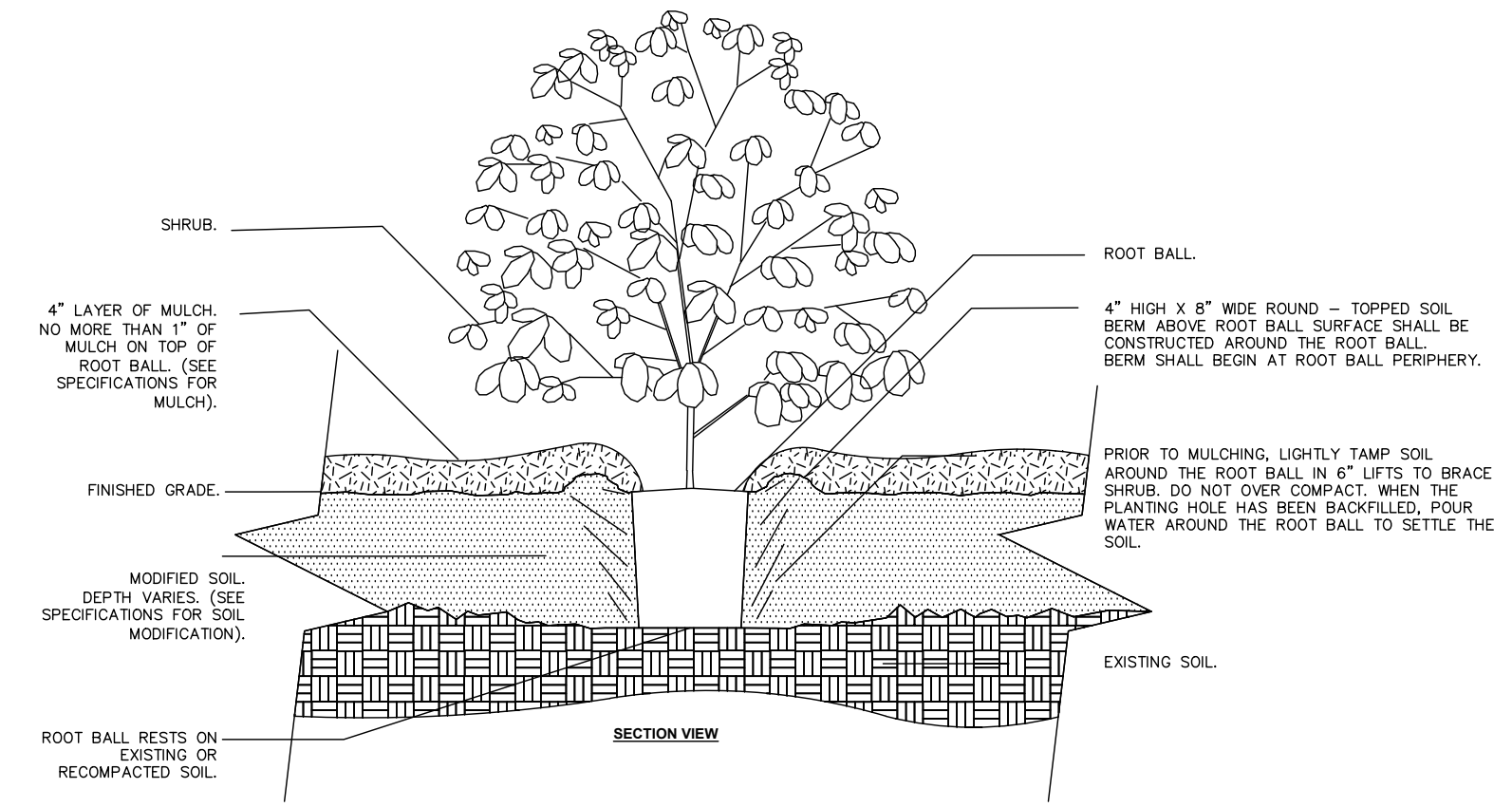
- PAVEMENT SYMBOL SHALL BE PAINTED WHITE ON A BLUE BACKGROUND.
- BLUE COLOR SHALL MATCH NO. 15090 IN THE FEDERAL STANDARD 595B AS SPECIFIED IN SECTION 522(B)2.



2 INTERNATIONAL HANDICAP SYMBOL DETAIL NOT TO SCALE



3 CONCRETE PAVEMENT SECTION NOT TO SCALE



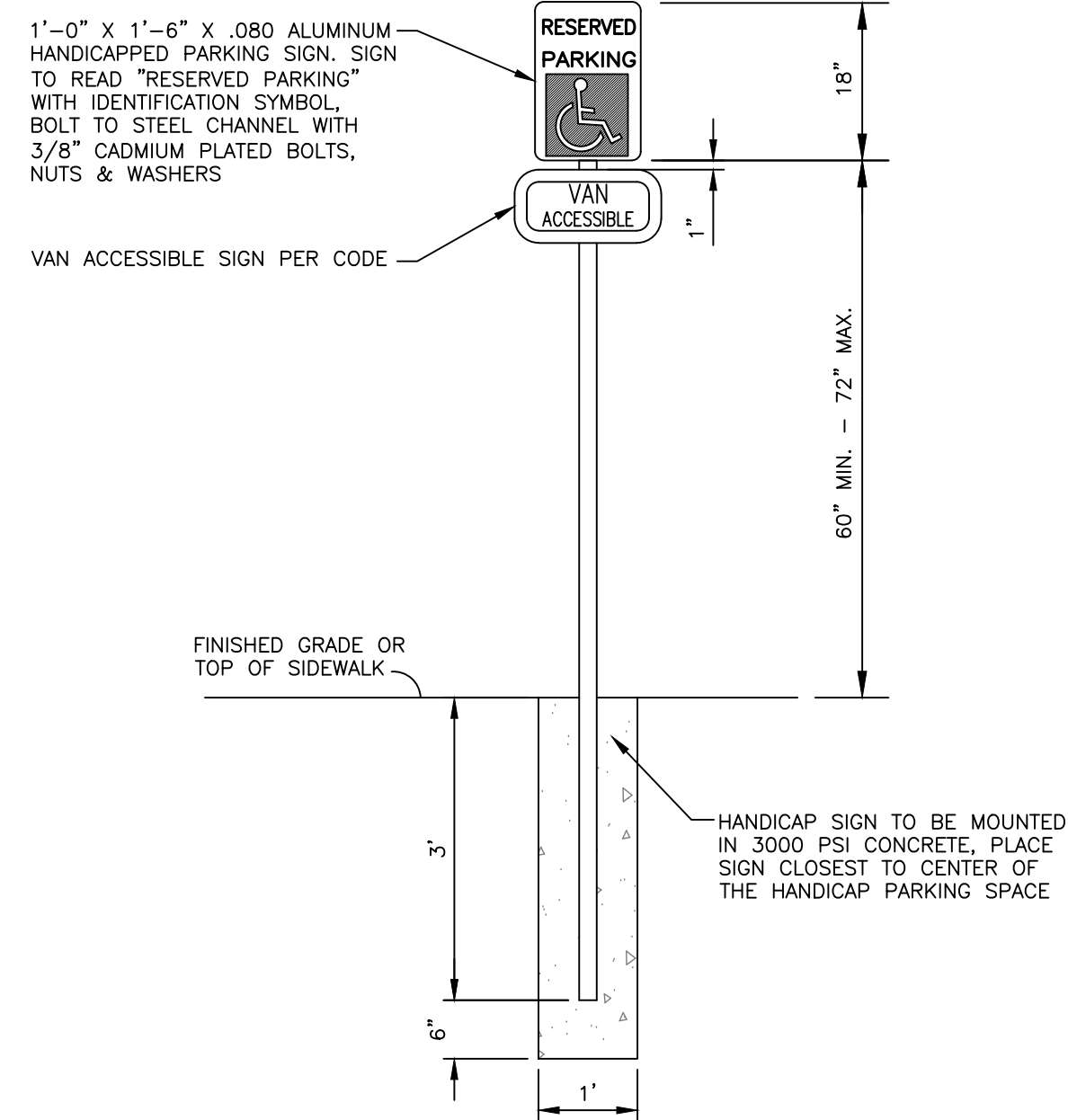
NOTES:

- SHRUBS SHALL BE OF QUALITY DESCRIBED IN THE MASTER PLANT MATERIAL SCHEDULE.
- SOAK ROOT BALL AND PLANT PIT IMMEDIATELY AFTER INSTALLATION.
- REMOVE EXCESS SOIL FROM SITE AND DISPOSE OF IN LEGAL MANNER.
- RESEED UNMULCHED, DISTURBED AREAS.

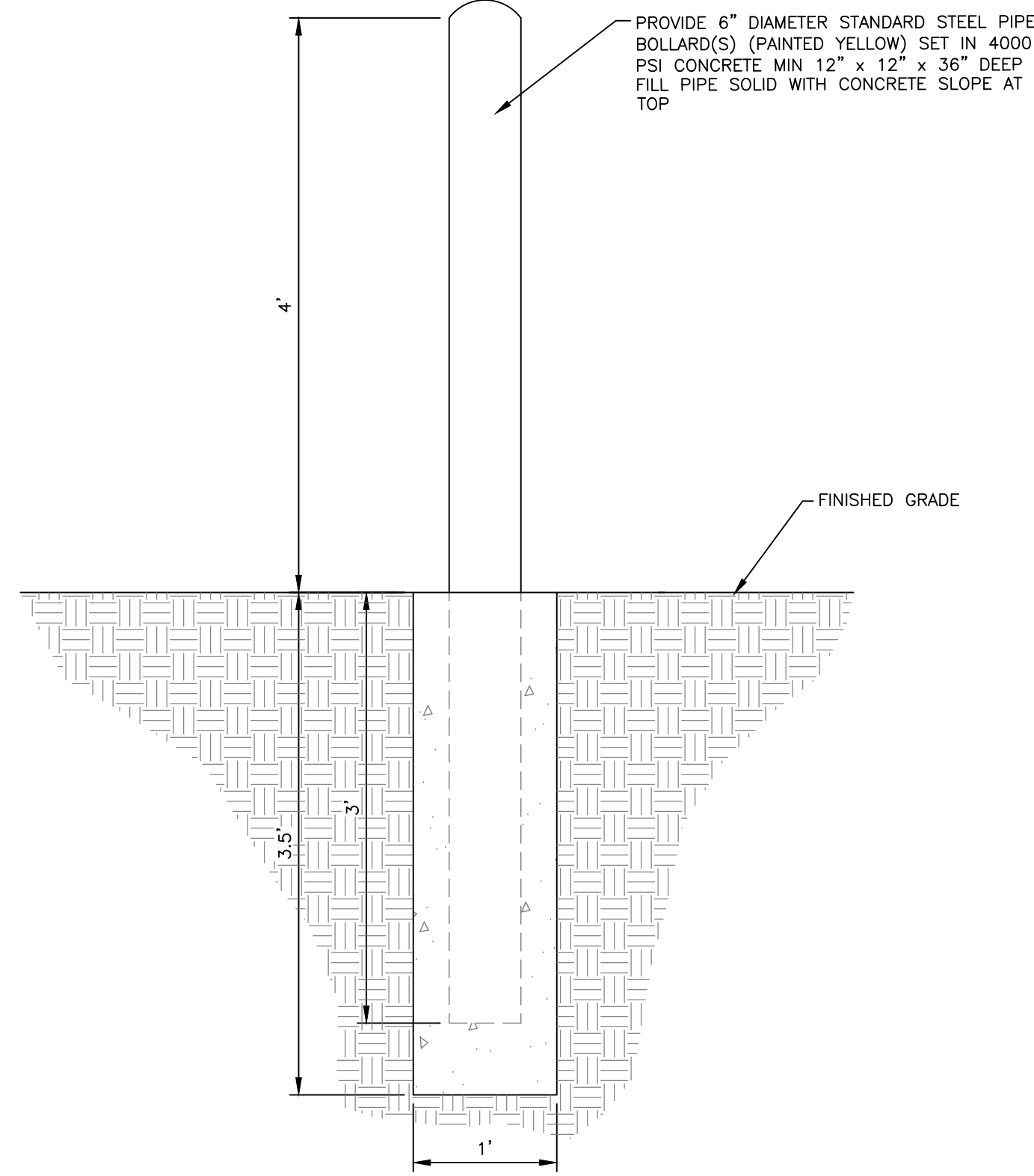
4 SHRUB/SMALL TREE PLANTING DETAIL

HANDICAP SIGN DETAIL NOTE

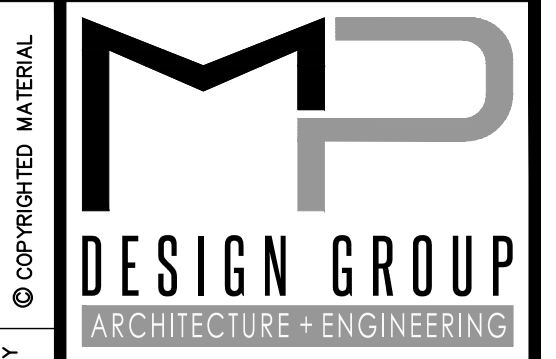
HANDICAP PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS.



5 HANDICAP SIGN NOT TO SCALE



6 TYPICAL STEEL BOLLARD DETAIL NOT TO SCALE



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION

JACKSON COUNTY

SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: BJS
 CHECKED BY: BJS

CIVIL SITE DETAILS

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

C620

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

GENERAL CONDITIONS

- STEEL FRAME IS NON-Self-SUPPORTING AND COLUMN ANCHOR RODS ARE DESIGNED FOR A COMPLETED CONDITION ONLY. A COMPLETED STRUCTURE IS REQUIRED TO PROVIDE LATERAL STABILITY FOR THE FRAME AND RESISTANCE TO WIND AND SEISMIC FORCES. CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING REQUIRED TO MAINTAIN STABILITY OF STRUCTURAL SYSTEM.
- FOUNDATIONS WERE DESIGNED BASED ON A MAXIMUM SOIL PRESSURE OF 1500 PSF
- SEE GEOTECHNICAL REPORT DATED FEBRUARY 12, 2024, BY ECS SOUTHEAST, LLC FOR RECOMMENDATIONS FOR FILL MATERIAL AND COMPACTION.

MANUFACTURED METAL BUILDING NOTES

- THE MANUFACTURED METAL BUILDING SHALL BE DESIGNED, FABRICATED AND ERECTED PER THE REQUIREMENTS OF AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE METAL BUILDING MANUFACTURERS ASSOCIATION DESIGN PRACTICES MANUAL.
- THE STRUCTURAL SYSTEM SHALL BE A GABLED OR SINGLE SLOPE RIGID FRAME WITH INTERIOR COLUMNS, BAY SPACING AND ROOF SLOPES AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- ALL ENDWALL FRAMES SHALL BE POST AND BEAM FRAMES WITH INTERIOR COLUMNS AS REQUIRED.
- LATERAL STABILITY ALONG SIDEWALLS SHALL BE PROVIDED WITH ROD X-BRACING AND/OR PORTAL FRAMES.
- BOTTOM OF BASE PLATE ELEVATION FOR ALL COLUMNS SHALL BE 1 1/2" ABOVE THE FINISHED FLOOR TO ALLOW FOR MINOR SLOPES IN THE FOUNDATION SLAB.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PURCHASE AND INSTALLATION OF THE ANCHOR RODS INDICATED ON MANUFACTURED METAL BUILDING DRAWINGS. REFER TO THE ANCHOR BOLT SCHEDULE ON THIS SHEET FOR BOLT LENGTHS REQUIRED FOR VARIOUS BOLT DIAMETERS.
- THE ENGINEER OF THE METAL BUILDING MANUFACTURER SHALL UTILIZE ROD OR CABLE X-BRACING IN THE ROOF AS REQUIRED TO RESIST WIND AND SEISMIC LOADS.
- THE ENGINEER FOR THE MANUFACTURED METAL BUILDING SHALL PROVIDE SEALED DRAWINGS, SEALED CALCULATIONS AND CERTIFY THAT THE MANUFACTURED METAL BUILDING HAS BEEN DESIGNED FOR THE REQUIRED BUILDING LOADS, SEISMIC, WIND, ETC.

REINFORCING STEEL

- WELDED WIRE MATERIAL SHALL COMPLY WITH AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) A185 STANDARD SPECIFICATIONS. SUPPORT WELDED WIRE MATERIAL AT THE PROPER DEPTH PRIOR TO PLACING CONCRETE WITH MINIMUM CLEARANCES AS NOTED BELOW AND WITH APPURTENANCES NOTED BELOW.
- WELDED WIRE FABRIC SHALL BE AS INDICATED ON DRAWINGS. WELDED WIRE MATERIAL SHALL BE LAPPED ONE FULL MESH PANEL PLUS TWO (2) INCHES AT SIDES AND ENDS AND WIRED TOGETHER. LAP ALL SIDES AND ENDS EIGHT (8) INCHES, MINIMUM.
- MINIMUM COVER (OR CONCRETE PROTECTION) OF ALL CONCRETE REINFORCEMENT MEASURED FROM THE FINISHED CONCRETE FACE TO THE SOIL SHALL BE THREE (3) INCHES FOR FOOTINGS AND GRADE BEAMS (BOTTOM AND SIDE) AND THREE (3) INCHES BOTTOM AND SIDE FOR SLAB ON GRADE.
- ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE A.C.I. MANUAL OF PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, A.C.I. 315.
- REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE (IAW) CRSI "PLACING REINFORCING BARS", LATEST EDITION. REINFORCING BARS SHALL BE ASTM A615 GRADE 60.
- THE LAP SPlice DEVELOPMENT LENGTH OF STEEL REINFORCEMENT SHALL BE ACHIEVED AND MADE TO DEVELOP FULL STRENGTH OF THE REINFORCEMENT STEEL. WHERE SPLICES IN REINFORCING ARE NECESSARY, REINFORCING SHALL BE LAPPED 48 BAR DIAMETERS IN INCHES (MINIMUM). ALL BAR SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES, UNLESS NOTED OTHERWISE. SPLICES SHALL CONFORM TO A.C.I. 318, LATEST REVISION.
- REINFORCEMENT STEEL SHALL BE STORED IN SUCH MANNER TO PREVENT EXPOSURE TO THE ELEMENTS AND SHALL BE FREE OF RUST BEFORE PLACEMENT. REINFORCEMENT STEEL SHALL NOT BE WELDED.
- ALL FOOTING REINFORCEMENT SHALL BE HELD SECURELY FROM THE GROUND USING REBAR CHAIRS OR OTHER APPROVED METHODS. CONCRETE BLOCK OR BRICK MAY BE USED.
- OUTER BAR OF FOUNDATION REINFORCEMENTS SHALL BE CONTINUOUS AROUND CORNERS OR BY BENDING THE BAR, MINIMUM BAR LAP SHALL BE 48 BAR DIAMETER.
- PROVIDE ONE (1) #4 HOOP WITH 8" LAP IN SLAB AROUND ALL FLOOR DRAINS.

CAST IN PLACE CONCRETE

- CONCRETE MIX SHALL BE DESIGNED TO DEVELOP STRENGTH OF 4,000 PSI TESTED AT 28 DAYS.
- CONTRACTOR SHALL VERIFY ALL IN SLAB FIXTURE DIMENSIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL PLANS. ALL SLOTS, SLEEVES AND OTHER EMBEDDED ITEMS SHALL BE SET BEFORE CONCRETE IS PLACED. ALL FOUNDATION PENETRATIONS SHALL BE THROUGH THICKENED SLAB EDGE OR 6" CLEAR BELOW FOOTING. CONDUIT SHALL NOT BE PLACED WITHIN THE SLAB ON GRADE. CONDUIT SHALL BE INSTALLED BELOW THE SLAB ON GRADE. PIPES AND DUCTS SHALL NOT EXCEED ONE-THIRD THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
- REFER TO ARCHITECTURAL DRAWINGS FOR SPECIAL FINISHES, INCLUDING BUT NOT LIMITED TO MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATIONS OF FLOOR FINISHES AND SLAB DEPRESSIONS. CONCRETE SHALL BE PLACED ON COMPACTED FILL OR OTHER SURFACES. SOIL POISONING SHALL BE APPLIED TO THE COMPACTED SOIL UNDER CONCRETE SLAB AREA PRIOR TO PLACEMENT OF THE VAPOR BARRIER (SEE ARCHITECTURAL DRAWINGS/ SPECIFICATIONS FOR DETAILS). VAPOR BARRIER DAMP PROOFING SHALL BE MINIMUM 10-MIL POLYETHYLENE SHEETING INSTALLED WITHIN BUILDING AREA ON TOP OF THE COMPACTED SOIL PRIOR TO PLACING SLAB CONCRETE.
- ALL HONEY-COMBING, SPALLS, CRACKS, ETC. SHALL BE REPAIRED. EXTENT OF DEFECTIVE AREA SHALL BE DETERMINED BY THE STRUCTURAL ENGINEER.
- CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH A 3/4" DEGREE CHAMFER, UNLESS NOTED OTHERWISE.
- REFER TO PLANS FOR CONTROL JOINT LOCATIONS. CONSTRUCTION JOINTS MAY BE ADDED AS REQUIRED TO PREVENT THE FORMATION OF CONCRETE COLD JOINTS DURING PLACEMENT OF CONCRETE. CONSTRUCTION JOINTS SHALL BE INSTALLED IN LOCATIONS WHERE THE CONCRETE PLACEMENT OPERATION IS SCHEDULED FOR SEVERAL SEPARATE PLACEMENTS OR WHEREVER THE CONCRETE PLACEMENT IS DELAYED A SUFFICIENT AMOUNT OF TIME TO FORM A CONCRETE COLD JOINT.
- SLABS ON GRADE SHALL BE A THICKNESS AND REINFORCING AS SHOWN ON PLANS. REINFORCING AS SHOWN ON PLANS AND SHALL BE HELD SECURELY FROM THE GROUND USING REBAR CHAIRS OR OTHER APPROVED METHODS (CUT CONCRETE BRICK OR MAY BE USED) TO ENSURE MESH STAYS AT DEPTH INTENDED.
- UNDER NO CIRCUMSTANCES WILL DIGGING, TUNNELING OR TRENCHING BE ALLOWED AT OR NEAR ANY CONCRETE STRUCTURE WHICH MIGHT ACT TO UNDERMINE THE STRUCTURE.
- ANCHOR RODS SHALL CONFORM TO ASTM F1554 STANDARDS, NUTS SHALL CONFORM TO ASTM A563 STANDARDS AND WASHERS TO ASTM F436 STANDARDS.
- ALL DETAILS SHOWN ARE TYPICAL, SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS.
- COORDINATE ALL CONSTRUCTION PLANS WITH ARCHITECTURAL PLANS.

DESIGN CRITERIA

BUILDING CODES, STANDARDS, AND SPECIFICATIONS:

- INTERNATIONAL BUILDING CODE (2012 VERSION)
- MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-16)
- AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS (ACI 318-11)
- AISC STEEL CONSTRUCTION MANUAL, 14TH EDITION, LRFD METHOD
- AISI COLD-FORMED STEEL DESIGN MANUAL 2012 EDITION

SEISMIC DESIGN:

- RISK CATEGORY: II
- S_s: 0.103
- S_i: 0.056
- S_{ws}: 0.164
- S_{wf}: 0.135
- S_{ps}: 0.109
- S_{pf}: 0.090
- SEISMIC IMPORTANCE FACTOR, I_e: 1.00
- SEISMIC DESIGN CATEGORY: B
- SITE CLASS: D
- METHOD OF ANALYSIS: EQUIVALENT LATERAL FORCE (ELF)
- RESPONSE MODIFICATION COEFFICIENT R= 3.25
- SEISMIC RESPONSE COEFFICIENT: CS = .032
- SEISMIC BASE SHEAR = LESS THAN WIND SHEAR (DOES NOT CONTROL DESIGN)
- SEISMIC FORCE RESISTING SYSTEM TYPE H PER TABLE 12.2-1 (NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE PER MANUFACTURED BUILDING DESIGN)

DESIGN LOADS:

- ROOF LIVE LOAD: 20 PSF
- ROOF DEAD LOAD: PER METAL BUILDING MANUFACTURER
- COLLATERAL LOAD: 5 PSF MINIMUM
- INTERIOR SELF SUPPORTING WALL: 25 PSF

-WIND SPEED:

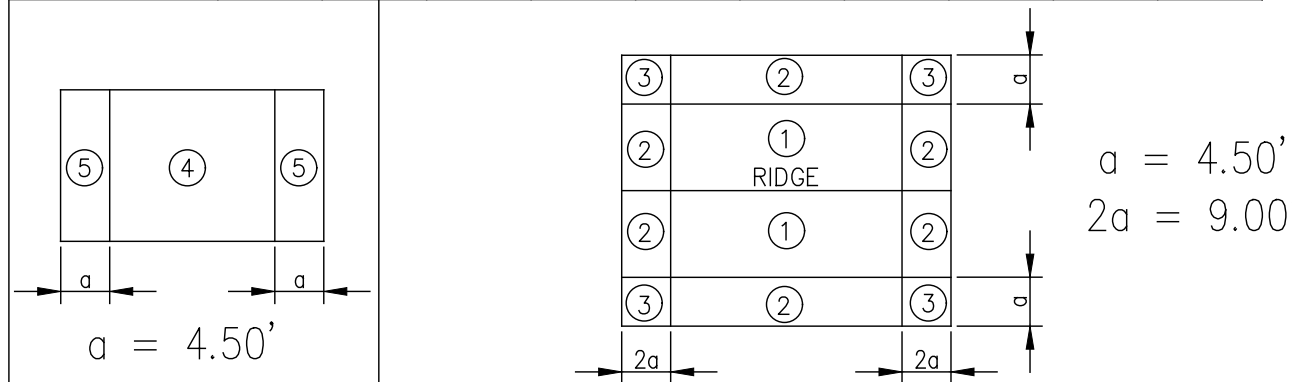
- V = 181 MPH
- WIND EXPOSURE: C
- BUILDING RISK CATEGORY: IV
- INTERNAL PRESSURE COEF: +/- 0.18

GROUND SNOW LOAD: 0 PSF

COMPONENTS AND CLADDING FOR ENCLOSED BUILDINGS

NOTE: WIND PRESSURES ARE SHOWN BASED ON STRENGTH DISIGN WIND SPEED OF 180 MPH. COMPONENTS & CLADDING WIND PRESSURE

EFFECTIVE AREA (S.F.)	ZONE 1		ZONE 2		ZONE 3		ZONE 4		ZONE 5	
10	23.7	-58.3	23.7	-97.8	23.7	-147.2	58.3	-63.2	58.3	-78.0
20	22.2	-56.8	22.2	-87.4	22.2	-121.9	55.7	-60.6	55.7	-72.8
50	20.3	-54.8	20.3	-73.6	20.3	-88.5	52.2	-57.1	52.2	-65.8
100	18.8	-53.3	18.8	-63.2	18.8	-63.2	49.6	-54.5	49.6	-60.6



WALL ZONES

ROOF ZONES



"Designed to Build"

918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

David J. Machado, PE
Brad P. Patano, PE
Gerard W. Kilpatrick, PE
Bradford A. Jones, AIA



SARACENIA FIRE STATION

JACKSON COUNTY

SARACENIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
PROJECT NO: 0004.23.001
DRAWN BY: BJS
CHECKED BY: GWK

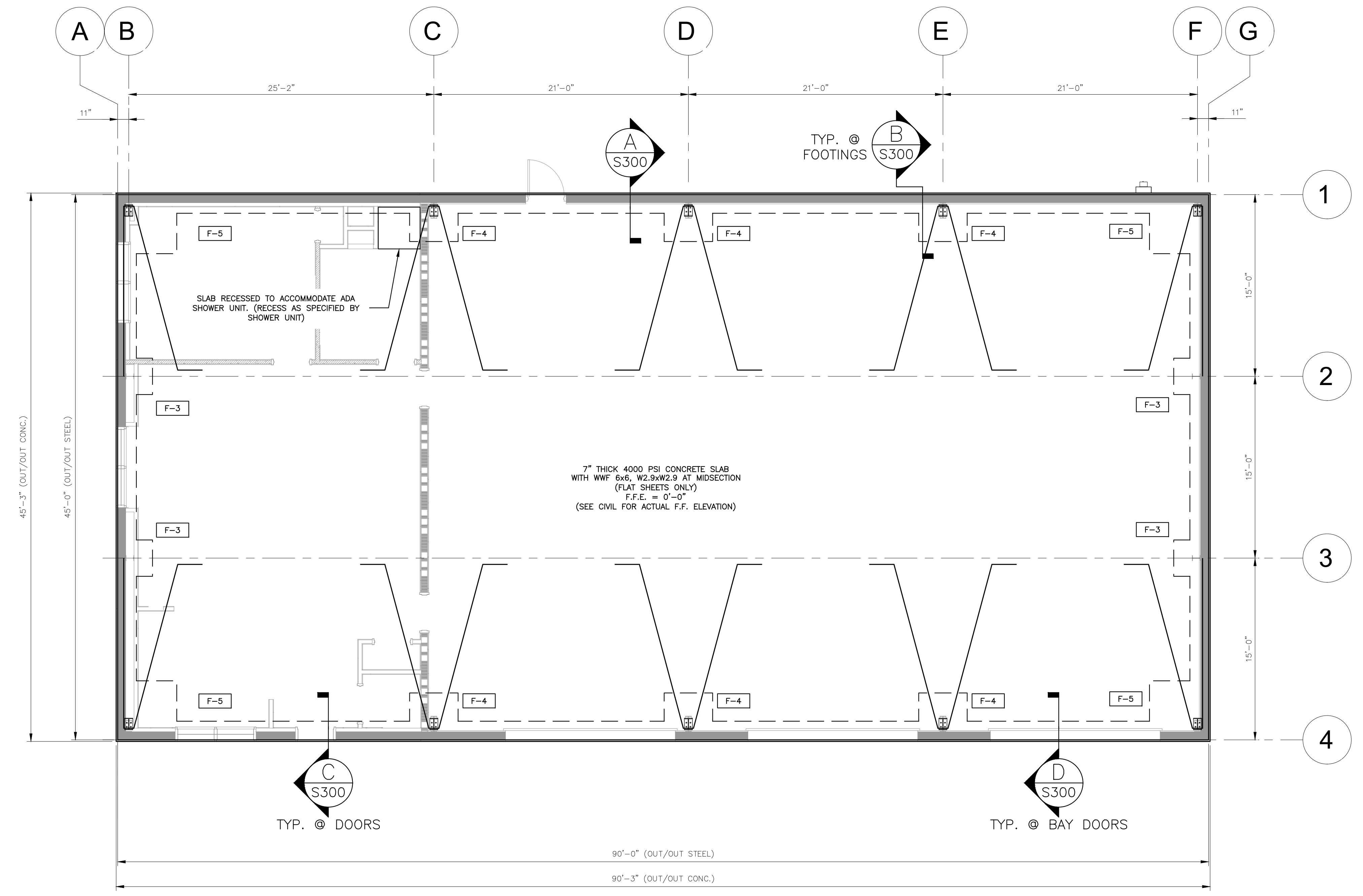
STRUCTURAL GENERAL NOTES

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

S001

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

PRINTED: 3/19/2024 1:32 PM BY: Ben Sellers LAST SAVED: 2/23/2024 10:27 AM BY: Bsellers
 m:\0004_jackson county\0004.23.001_saracenia fire station\03-structural\03-production drawings\saracenia fire station.dwg



1 OVERALL FOUNDATION PLAN
 SCALE: 3/16" = 1'-0"

FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F-3	3'-0" x 3'-0" x 2'-0" DEEP	(5)-#7 BARS E.W. ON TOP (5)-#5 BARS E.W. ON BOTTOM
F-4	4'-0" x 4'-0" x 2'-0" DEEP	(6)-#7 BARS E.W. ON TOP (6)-#5 BARS E.W. ON BOTTOM
F-5	5'-0" x 5'-0" x 2'-0" DEEP	(8)-#7 BARS E.W. ON TOP (8)-#5 BARS E.W. ON BOTTOM

NOTES:
 COORDINATE WITH ARCHITECTURAL AND MEP PLANS FOR
 SLAB PENETRATIONS, FLOOR DRAINS AND CLEANOUTS, ETC.

MP
DESIGN GROUP
 ARCHITECTURE + ENGINEERING

"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrad W. Kilpatrick, PE
 Bradford A. Jones, AIA

SARACENIA FIRE STATION
 JACKSON COUNTY
 SARACENIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: BJS
 CHECKED BY: GWK

OVERALL FOUNDATION PLAN

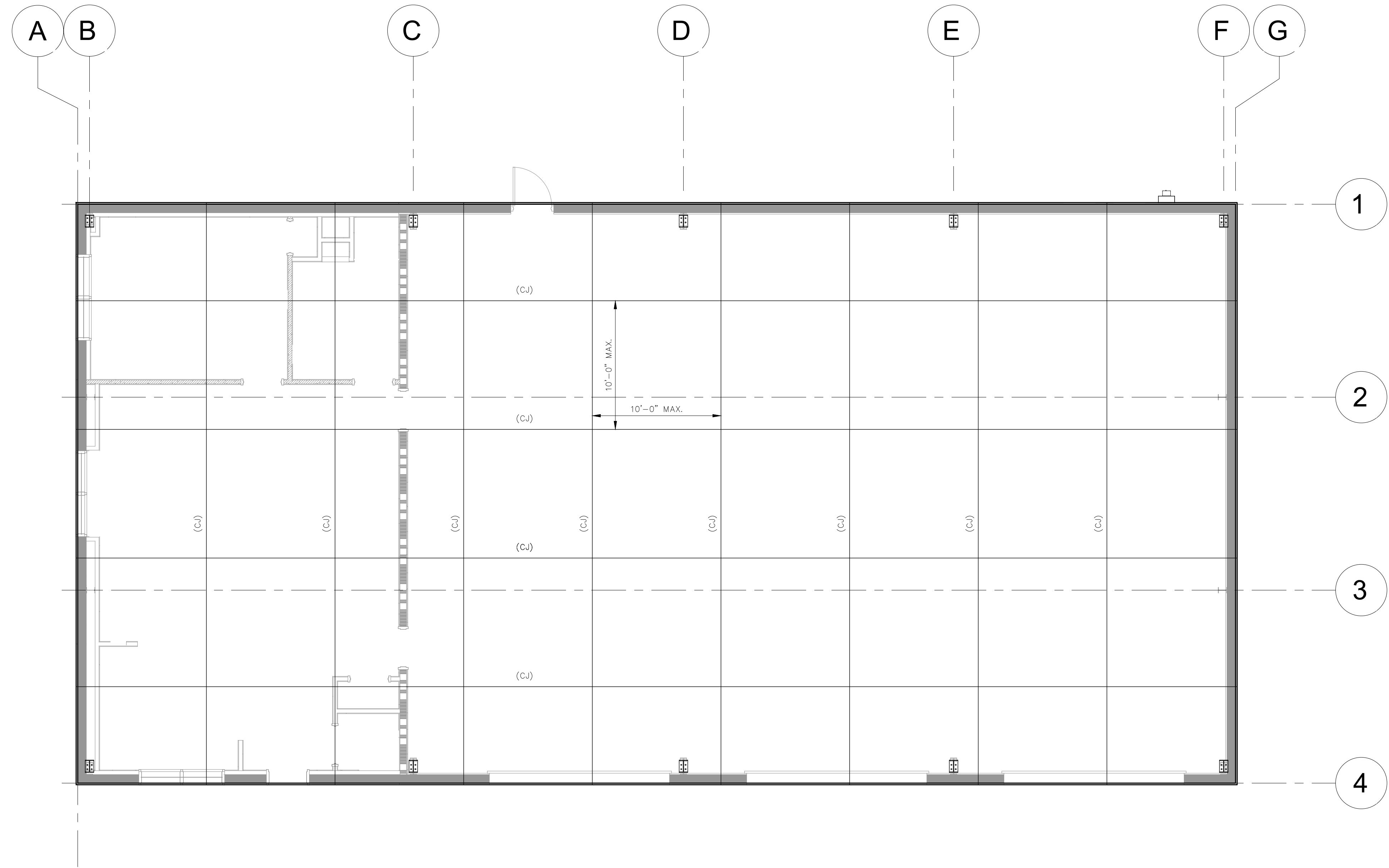
NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

S100

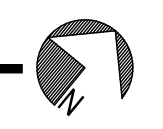
VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST
 SCALES ACCORDINGLY

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

PRINTED: 3/19/2024 1:32 PM BY: Ben Sellers LAST SAVED: 2/23/2024 10:27 AM BY: Bsellers
 m:\0004_jackson county\0004.23.001_saracenia fire station\03-structural\03-production drawings\saracenia fire station.dwg

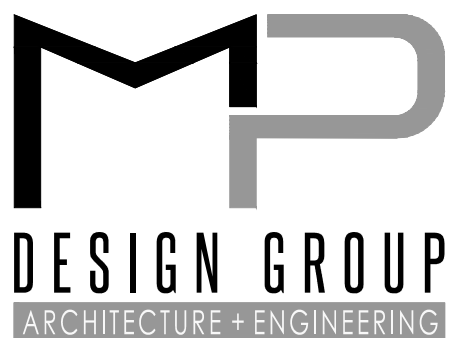


1 SLAB JOINTING PLAN
 SCALE: 3/16" = 1'-0"



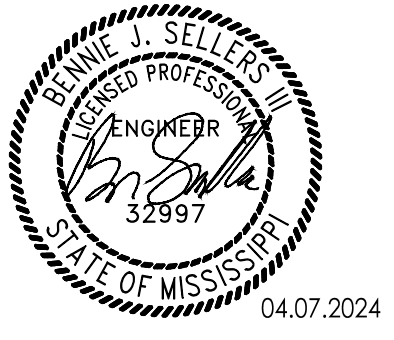
NOTES:
 CONTRACTION JOINTS SHALL BE SPACED
 10' MAXIMUM.

THE ORIGINAL, SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS, THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrad W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENIA FIRE STATION
 JACKSON COUNTY
 SARACENIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: BJS
 CHECKED BY: GWK

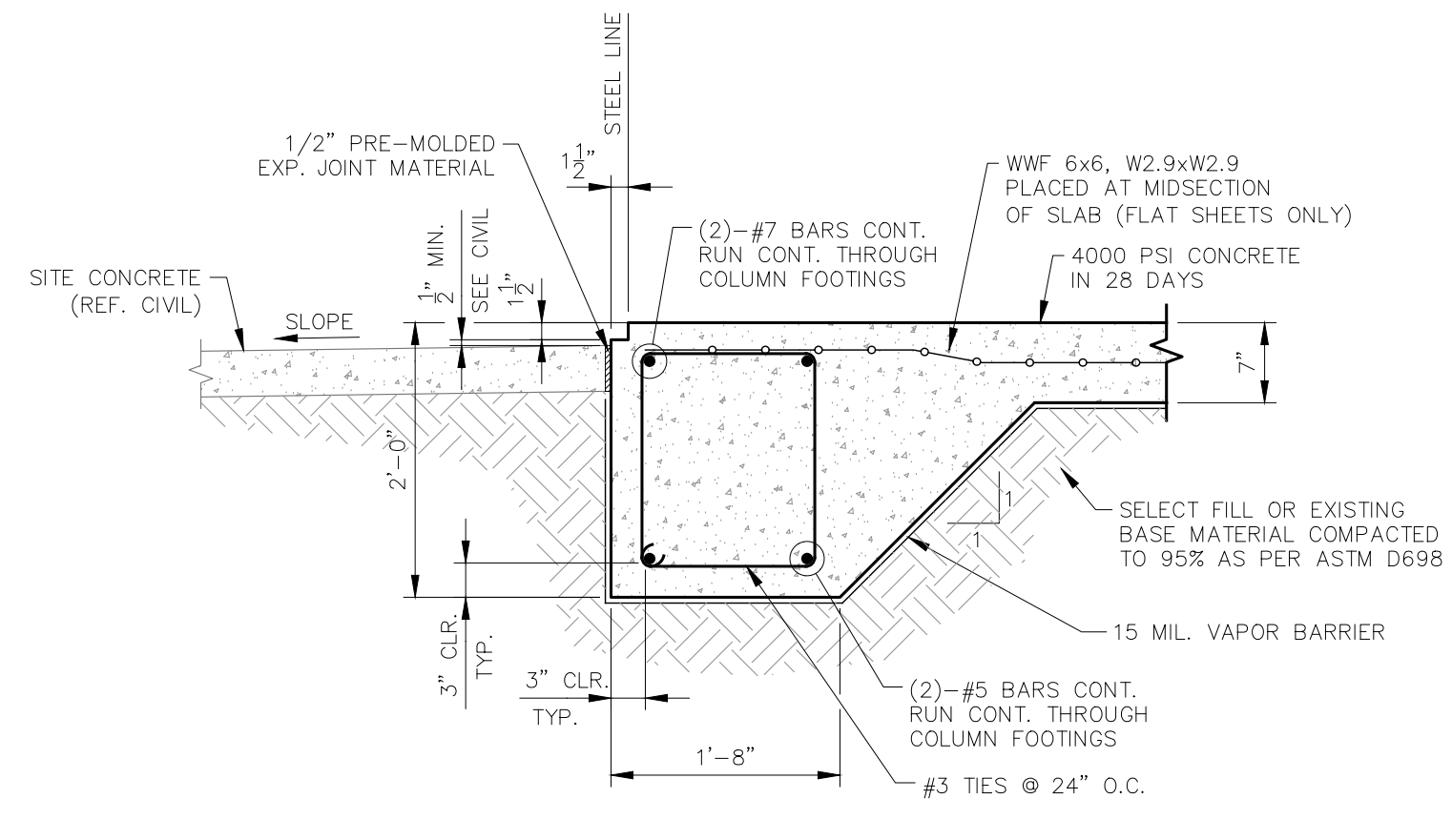
SLAB JOINTING PLAN

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

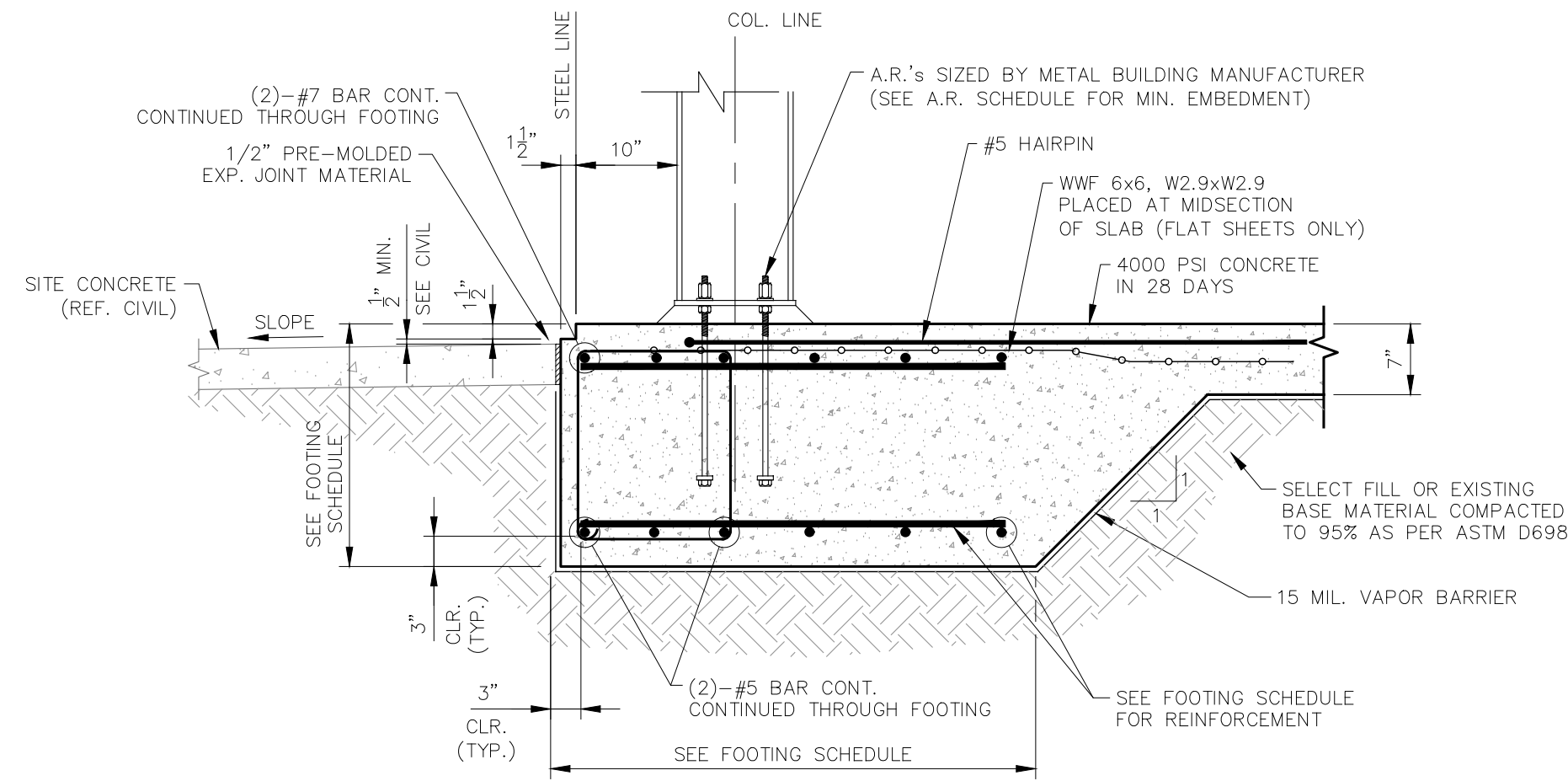
S101

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

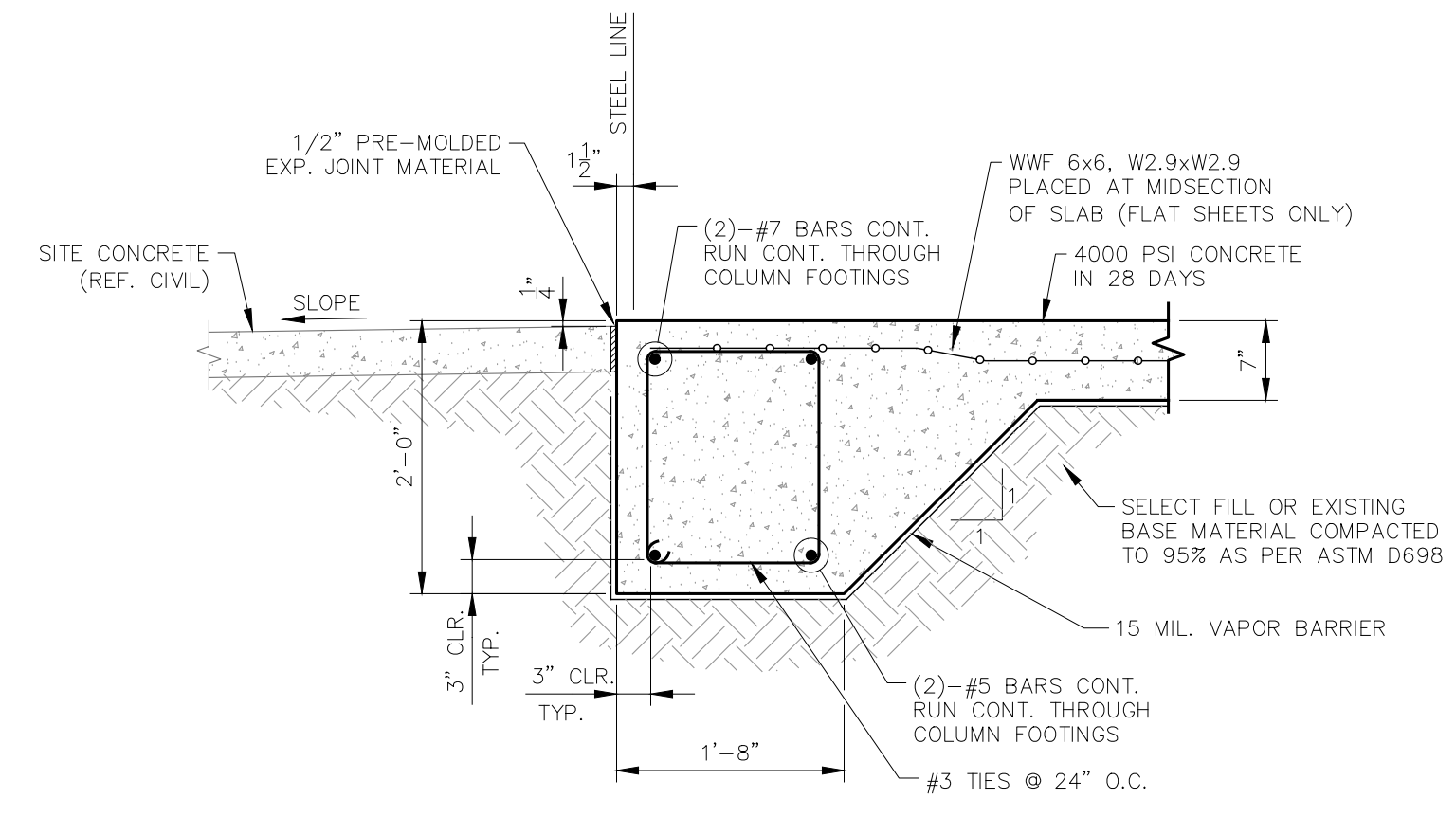
PRINTED: 3/19/2024 1:32 PM BY: Ben Sellers LAST SAVED: 2/23/2024 10:27 AM BY: Bsellers
 m:\0004_jackson county\0004.23.001_saracenia fire station\03-structural\03-production drawings\saracenia fire station.dwg



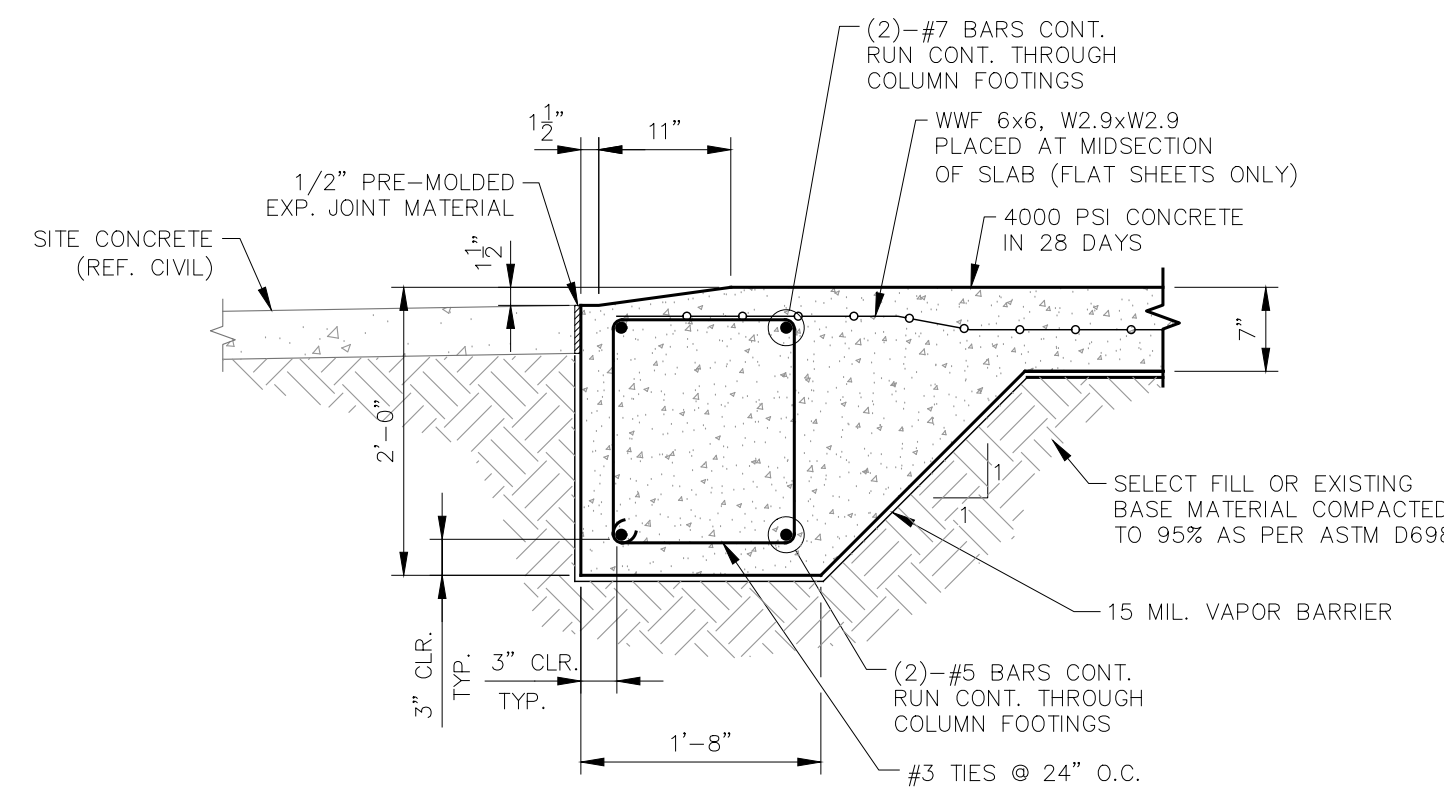
A SECTION - FOUNDATION
 S100 | S300 SCALE: 3/4" = 1'-0"



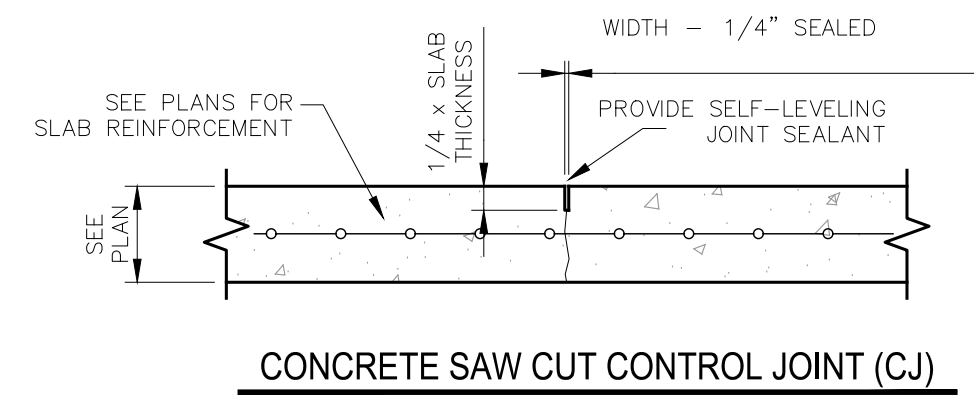
B SECTION - FOUNDATION
 S100 | S300 SCALE: 3/4" = 1'-0"



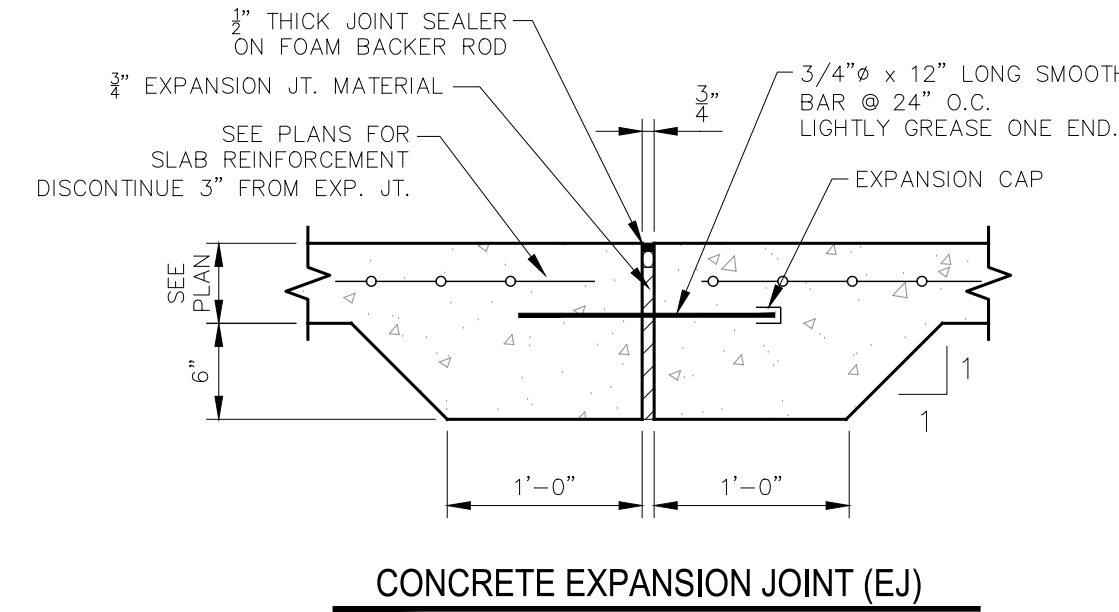
C SECTION - FOUNDATION
 S100 | S300 SCALE: 3/4" = 1'-0"



D SECTION - FOUNDATION
 S100 | S300 SCALE: 3/4" = 1'-0"

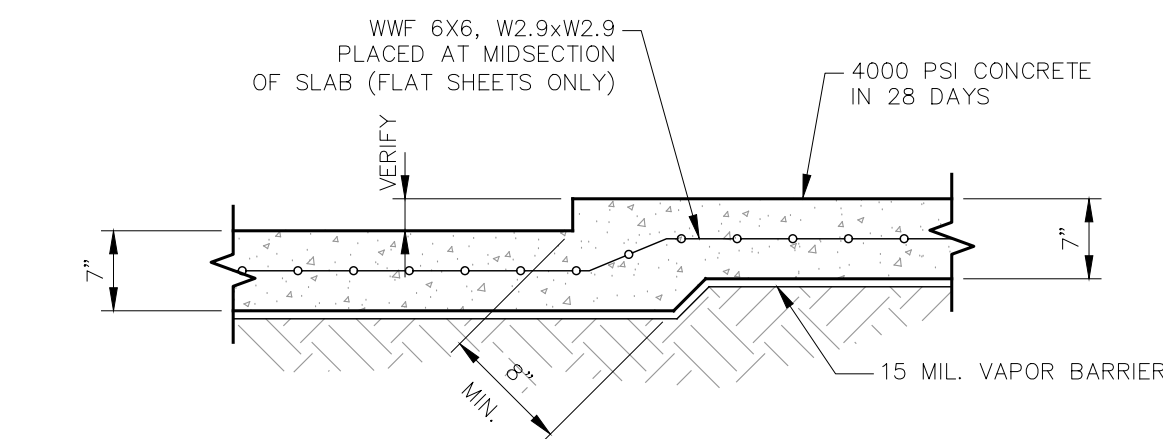


1 DETAIL - SLAB JOINTS
 S101 | S300 SCALE: N.T.S.

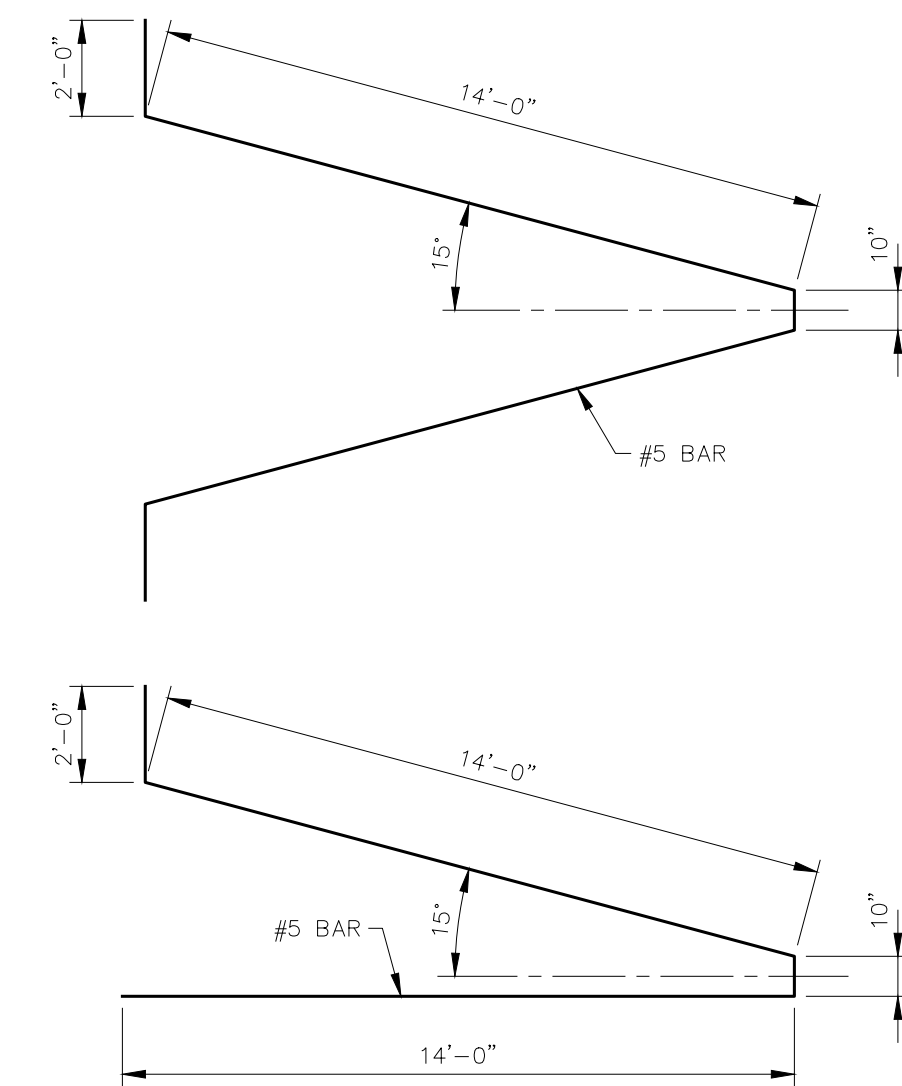


CONCRETE EXPANSION JOINT (EJ)

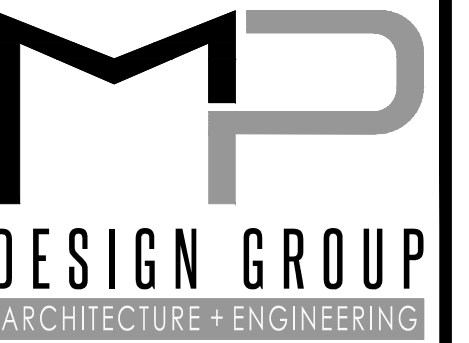
NOTES:
 1.) SAW JOINTS IN GREEN CONCRETE ONCE ADEQUATE CURING HAS OCCURRED TO SUPPORT THE WEIGHT OF THE SAW AND OPERATOR (APPROX. 1 HOUR IN HOT WEATHER AND 4 HOURS IN COLD WEATHER). CUTS TO BE MADE USING A BLADE SPECIFICALLY DESIGNED FOR DRY EARLY ENTRY CONCRETE CUTTING



3 DETAIL - SLAB RECESS
 S101 | S300 SCALE: N.T.S.

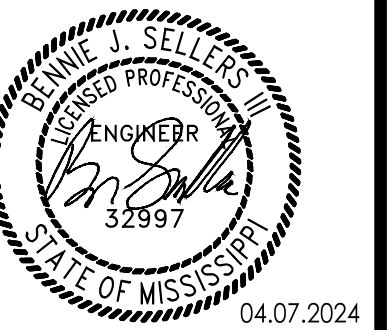


2 DETAIL - HAIRPINS
 S100 | S300 SCALE: 1/4" = 1'-0"



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrad W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENIA FIRE STATION

JACKSON COUNTY

SARACENIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: BJS
 CHECKED BY: GWK

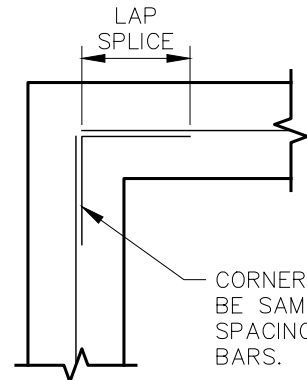
SECTIONS AND DETAILS

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

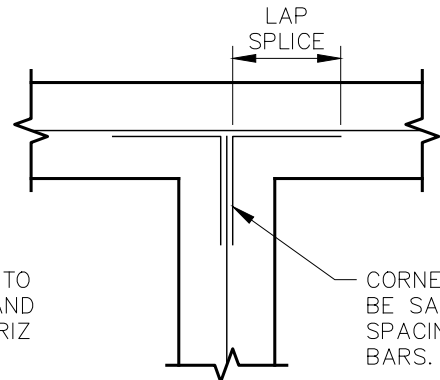
S300

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

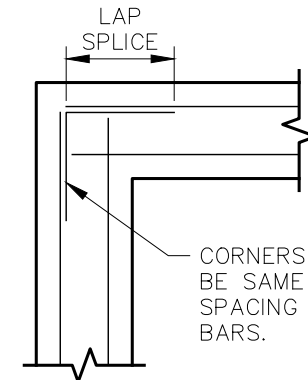
THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL



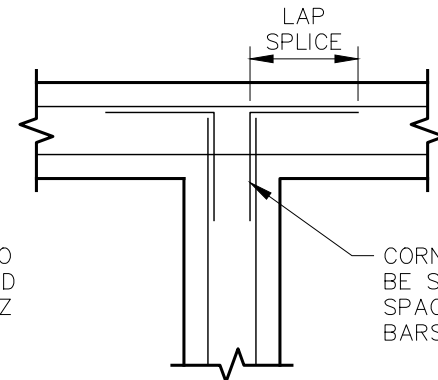
SINGLE LAYER REINFORCEMENT



DOUBLE LAYER REINFORCEMENT



SINGLE LAYER REINFORCEMENT



DOUBLE LAYER REINFORCEMENT

STANDARD DETAIL - REINFORCING @ CORNERS AND INTERSECTIONS

SCALE: NTS

EMBEDMENT LENGTHS

CONCRETE 28-DAY COMPRESSIVE STRENGTH - 3,500 PSI

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

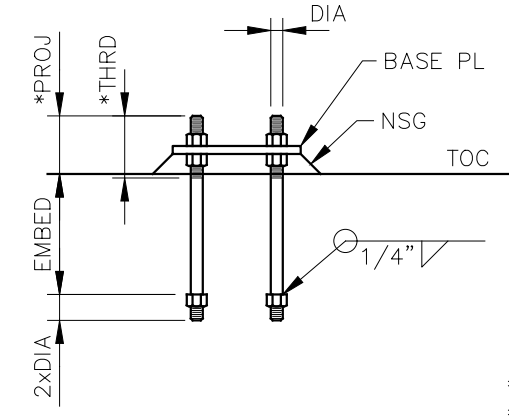
GRADE 60 REINFORCEMENT. MINIMUM LENGTHS SHOWN ABOVE SHALL BE USED UNLESS OTHERWISE NOTED ON THE PLANS. "TOP" BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.

LAP SPLICE LENGTHS

CONCRETE 28-DAY COMPRESSIVE STRENGTH - 3,500 PSI

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

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



DIA	EMBED	NSG
1/2"	1'-0"	1"
3/4"	1'-3"	1"
1"	1'-9"	2"

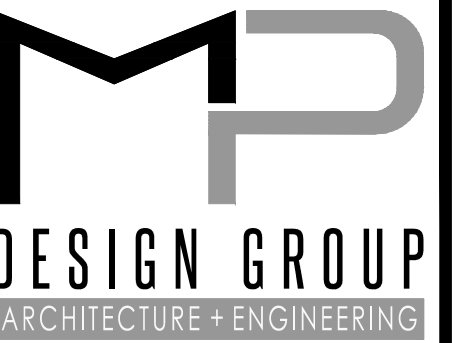
*PROJ = BASE PL THICKNESS + NSG + DIA + 1"
*THRD = PROJ + 1"

NOTES:

- ANCHOR BOLTS SHALL BE MEET ASTM F1554 GR. 55 (HOT DIP GALVANIZED) UNLESS NOTED OTHERWISE.
- ANCHOR BOLTS SHALL BE FURNISHED AS A COMPLETE ASSEMBLY, INCLUDING HEX NUTS AND WASHERS COMPATIBLE WITH THOSE OF THE THREADED SHANKS.
- FOR CONVENTIONAL COLUMNS (W, H, & HSS SHAPES), A LEVELING NUT SHALL BE PLACED UNDER THE BASE PL.
- HEADED BOLTS MAY BE SUBSTITUTED IN LIEU OF BOLTS SHOWN.

STANDARD DETAIL - ANCHOR BOLTS

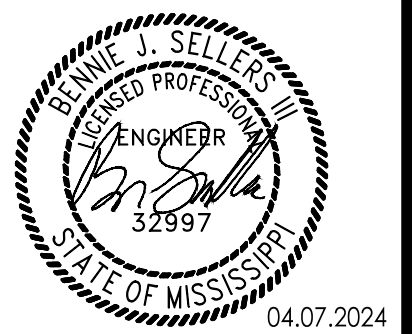
SCALE: NTS



"Designed to Build"

918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

David J. Machado, PE
Brad P. Patano, PE
Gerard W. Kilpatrick, PE
Bradford A. Jones, AIA



SARACENIA FIRE STATION

JACKSON COUNTY

SARACENIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
PROJECT NO: 0004.23.001
DRAWN BY: BJS
CHECKED BY: GWK

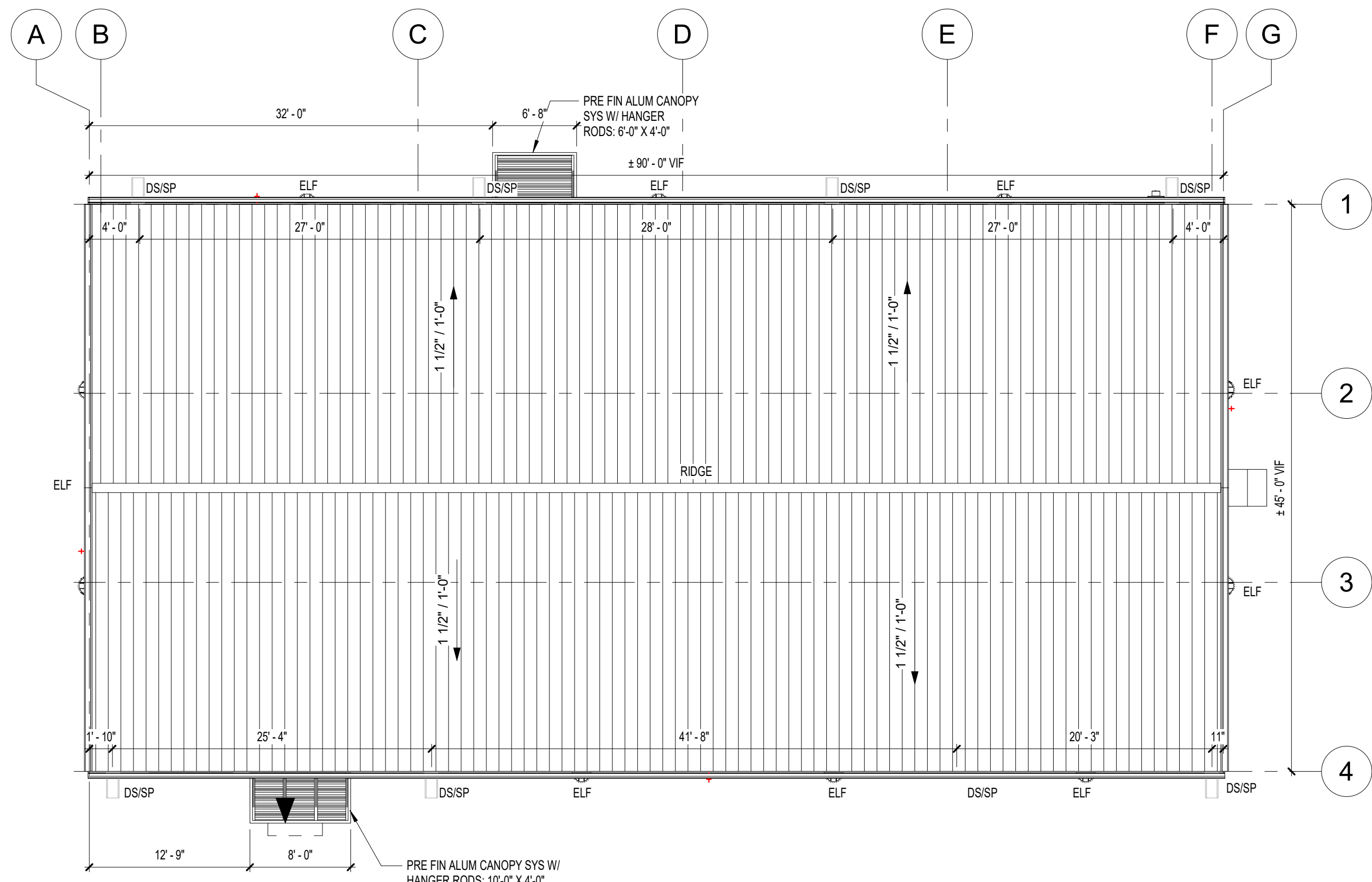
STANDARD DETAILS

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

S500

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

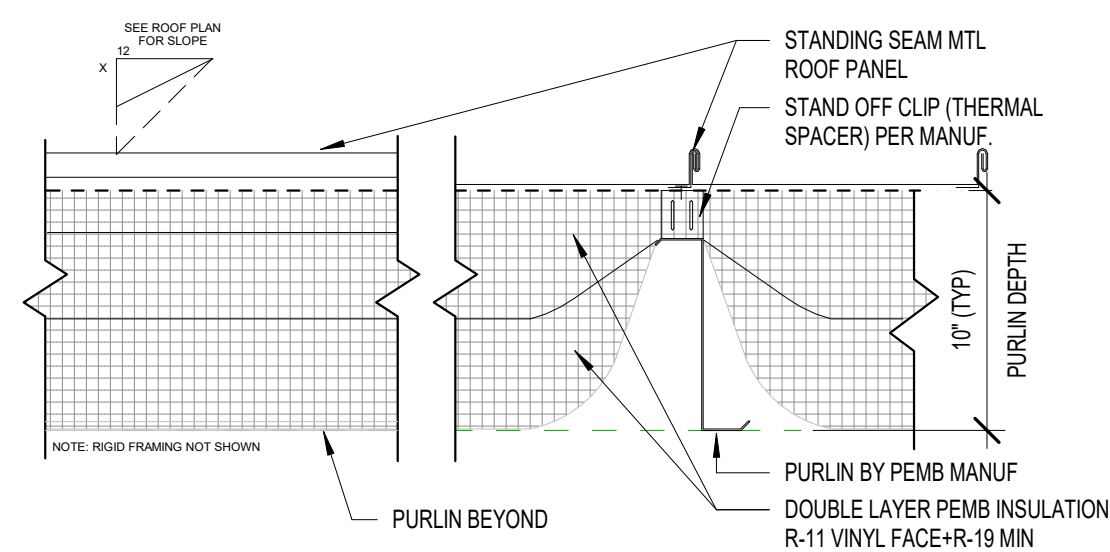
THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL



2 ROOF PLAN
1/8" = 1'-0"

ROOF PLAN GENERAL NOTES

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



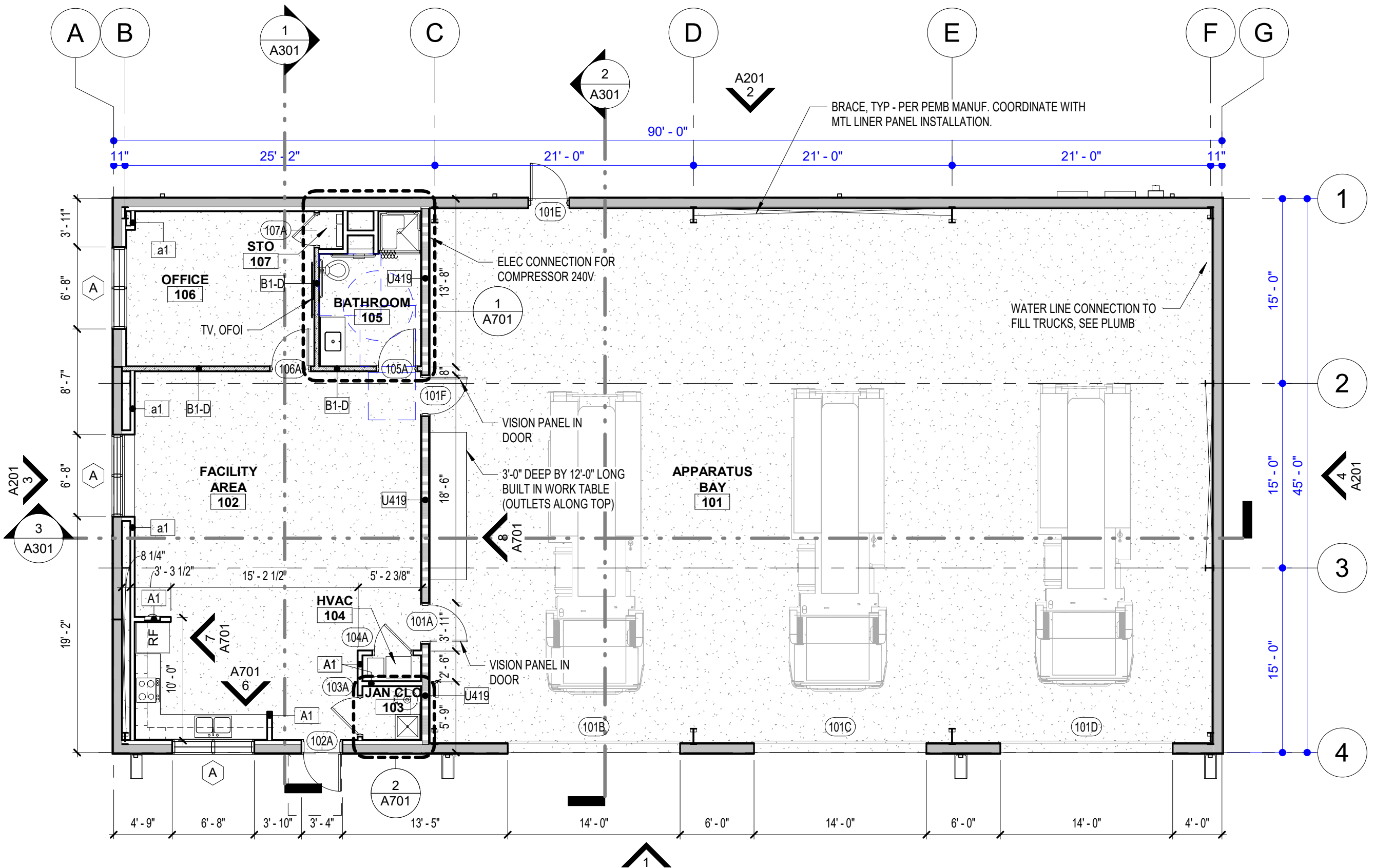
R SM-PEMB-B STANDING SEAM MTL ROOF PANEL @ PEMB ROOF W/ STANDOFF

FLOOR PLAN GENERAL NOTES

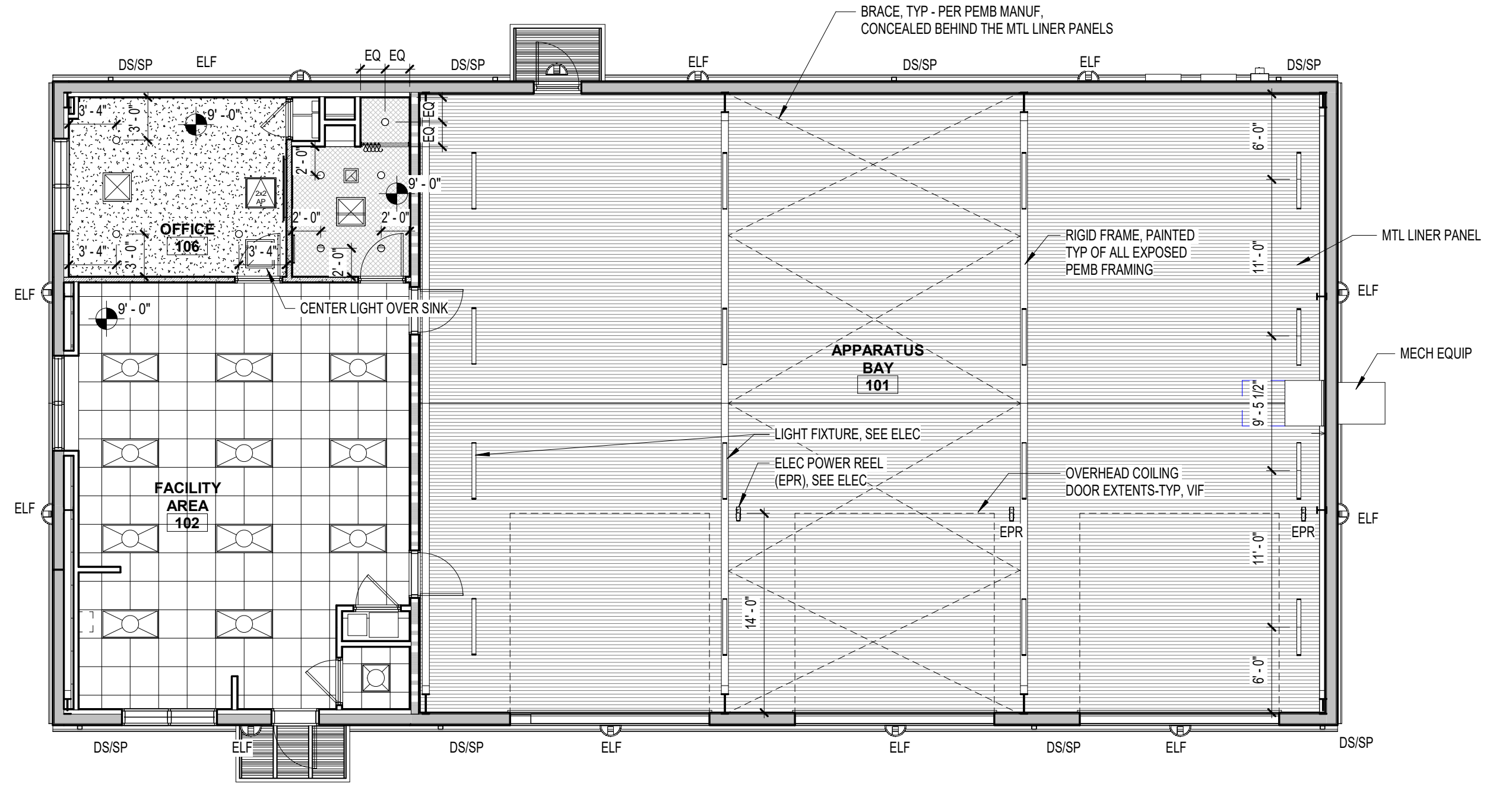
- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
- ALL INTERIOR DIMENSIONS ARE TAKEN FROM FACE STUD TO FACE OF STUD U.N.O.
- ALL EXTERIOR DIMENSIONS ARE TAKEN TO OUTSIDE FACE OF STEEL TO OUTSIDE OF STEEL OR OUTSIDE FACE OF MASONRY TO OUTSIDE FACE OF MASONRY U.N.O.
- ALL DOORS ARE SHOWN 4" OFF OF ADJACENT WALL UNLESS NOTED OTHERWISE. CONTRACTOR SHALL MAINTAIN ALL ADA CLEARANCES AT DOORS. SOME TYPICAL ARRANGEMENTS ARE SHOWN ON SHEET G200.
- SEE ENLARGED FLOOR PLANS FOR ANY ACCESSORY SCHEDULES AND TYPICAL MOUNTING HEIGHTS AND SIZES.
- PARTITION TYPES ABOVE AND BELOW INTERIOR OPENINGS ARE TO BE THE SAME AS THE ADJACENT PARTITION TYPE UNLESS NOTED OTHERWISE. SEE PARTITION TYPES FOR SPECIFIC WALL TYPE CONSTRUCTION. SEE WALL PARTITION TYPES FOR SPECIFIC UL RATINGS AS REQ.
- SEE LIFE SAFETY FLOOR PLANS FOR LOCATIONS OF RATED WALL PARTITIONS.
- SEE LIFE SAFETY FLOOR PLANS FOR DIMENSIONED LOCATIONS OF FIRE EXTINGUISHER CABINETS AND FIRE EXTINGUISHER CABINET DETAILS.
- SEE EXTERIOR ELEVATIONS FOR POSITIONING OF MECHANICAL GRILLES AND LOUVERS IN EXTERIOR WALLS.

RCP GENERAL NOTES

- SEE MECHANICAL AND ELECTRICAL SHEETS TO VERIFY SIZE, TYPE, NUMBER, AND LOCATION OF FIXTURES.
- ALL LIGHTS TO BE CENTERED WITHIN 2X2 GRID TYP.
- WHERE LAY-IN-ACOUSTICAL TILE UNITS LESS THAN 6" WIDE OCCUR AT EDGES OF THE ROOM PROVIDE 24X48 INCH PANELS CUT TO EXTEND TO WALL, ELIMINATING THE TEE NEAR THE WALL.
- PROVIDE MOISTURE, MOLD, & MILDEW RESISTANT GYPSUM BOARD @ RESTROOMS.
- SEE ELEC FOR SECONDARY CAMERA/C@TV LOCATIONS.



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



4 FIRST FLOOR RCP
1/8" = 1'-0"

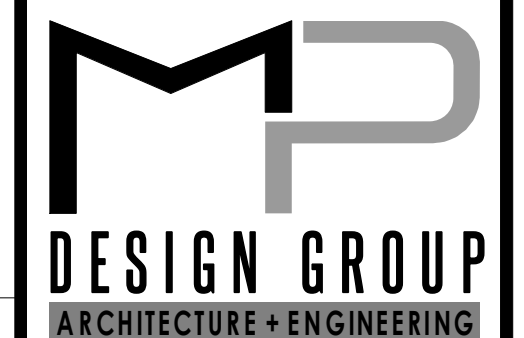
RCP HATCH LEGEND

	GYP-1		ACT-1
	GYP-2 MOISTURE RES GYP BD		MTL CEILING LINER PANEL
	EXP STRUCTURE		

RCP GRAPHIC LEGEND

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

	2X4 LAY IN LIGHT FIXTURE		HVAC SUPPLY
	2X2 LAY IN LIGHT FIXTURE		HVAC RETURN
	WALL MOUNTED LIGHT @ 26' AFF		
	CAN DOWNLIGHT. SIZE MAY VARY. SEE ELEC FOR SIZE AS SCHED		
	SUSPENDED FIXTURE. SIZE MAY VARY. SEE ELEC FOR SIZE AS SCHED AND VERIFY MOUNTING HEIGHT WITH ARCHITECT		



"Designed to Build"
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

David J. Machado, PE
Brad P. Patano, PE
Gerrod W. Kilpatrick, PE
Bradford A. Jones, AIA



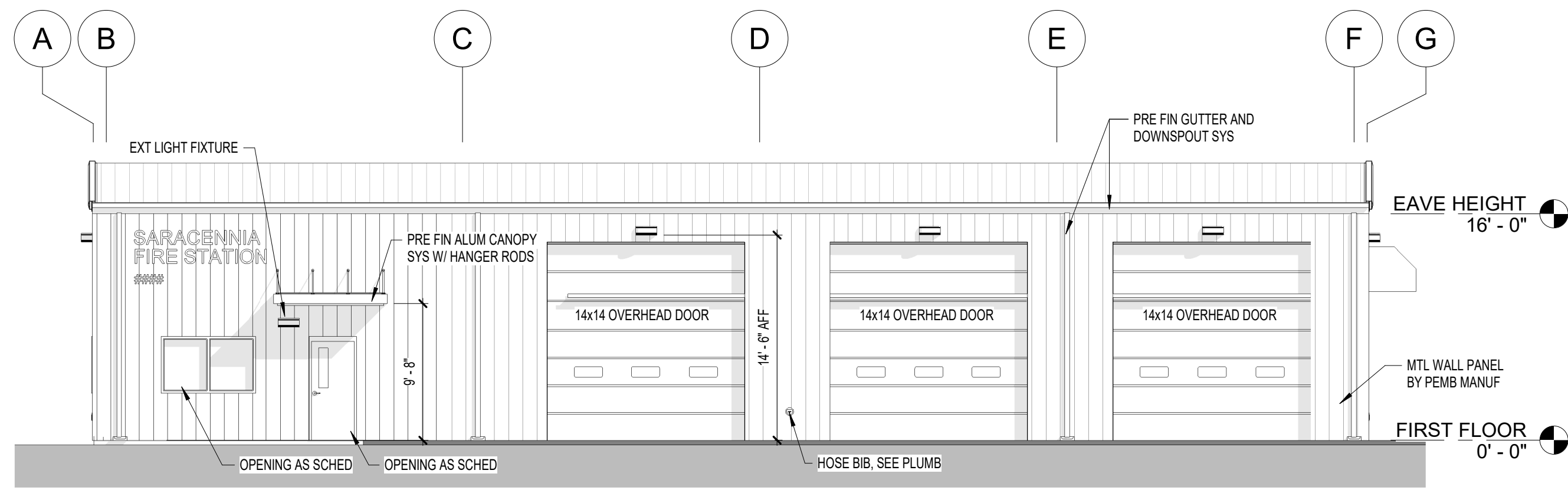
SARACENIA FIRE STATION
JACKSON COUNTY
SARACENIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
PROJECT NO: 0004.23.001
DRAWN BY: VJH
CHECKED BY: VJH

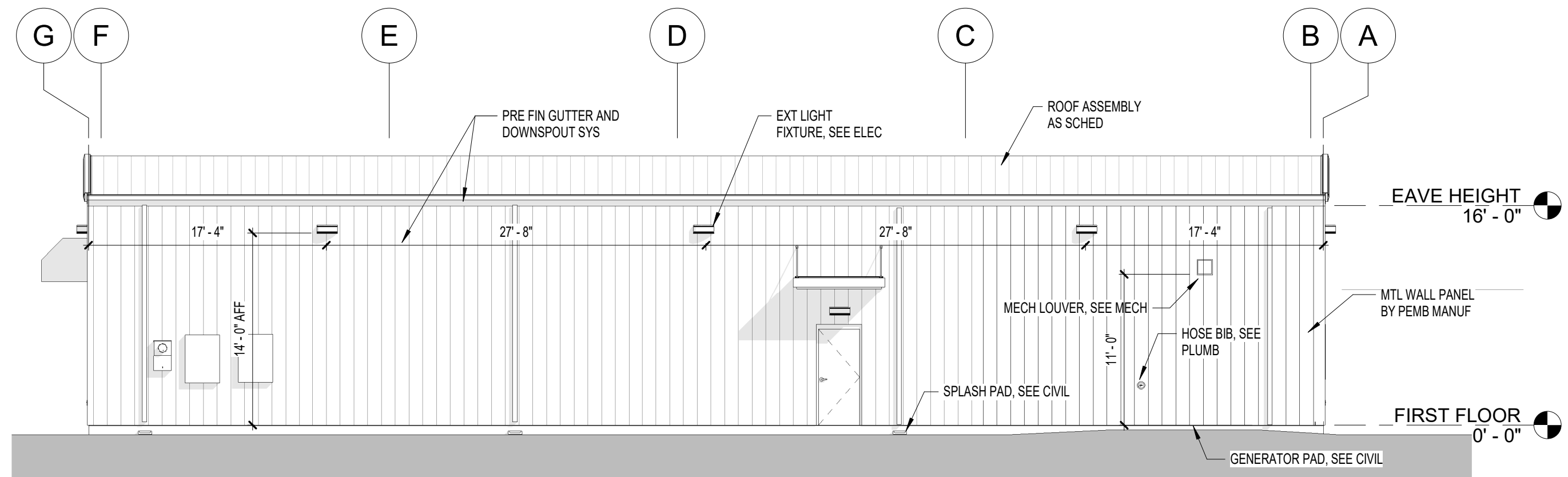
FLOOR PLAN, REFLECTED CEILING PLAN, ROOF PLAN

NO.	REVISION / SUBMITTAL	DATE
REV 0	ISSUED FOR CONSTRUCTION	04/07/24

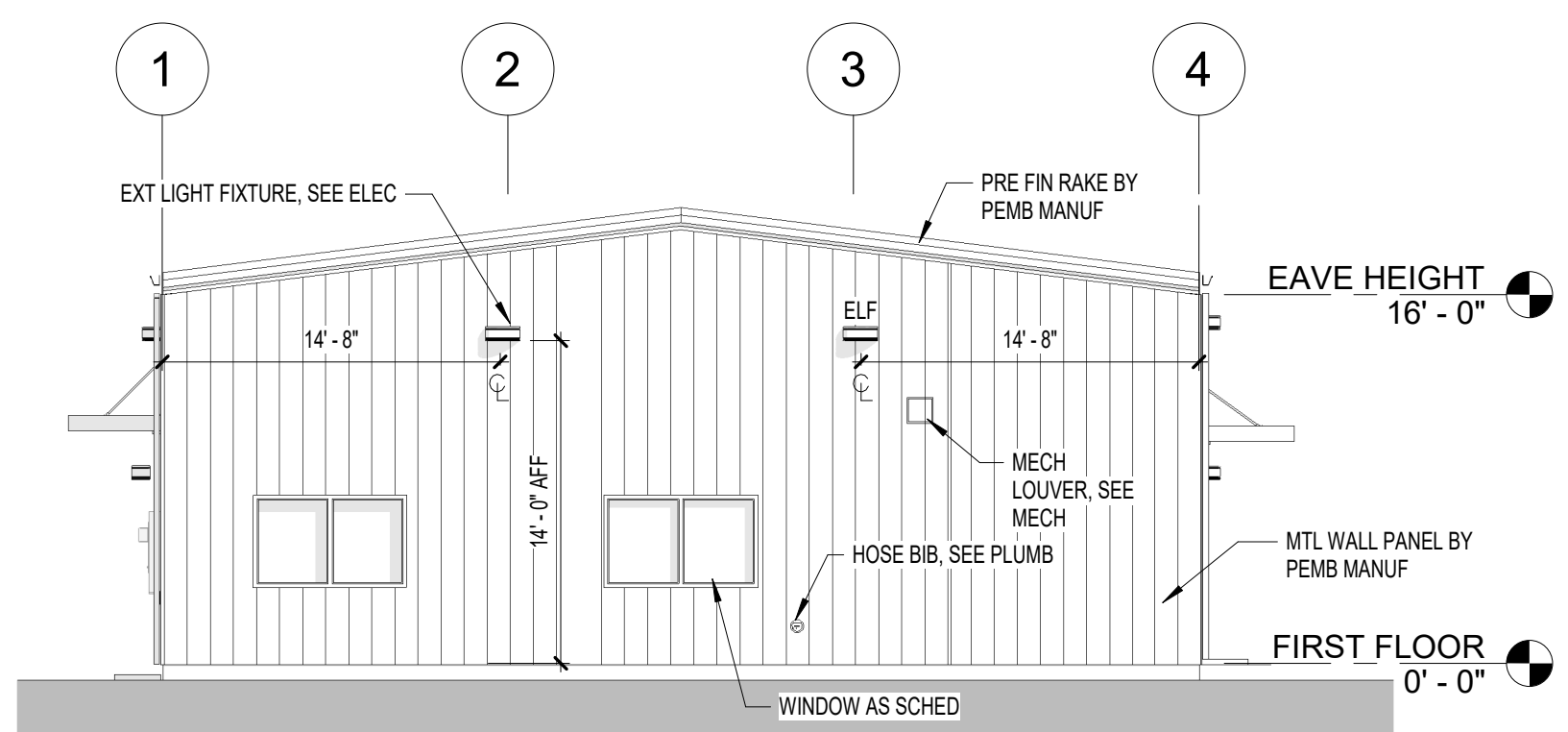
A101
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO I PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



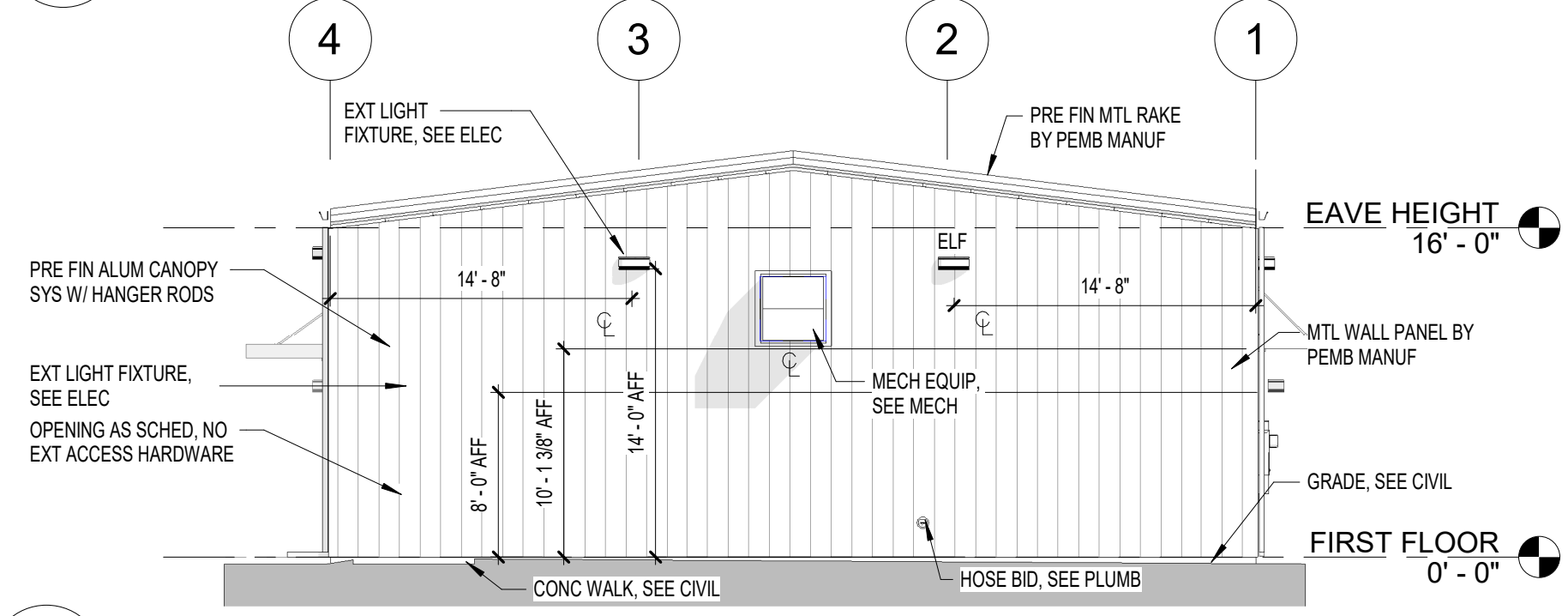
1 SOUTH ELEVATION
A201 1/8" = 1'-0"



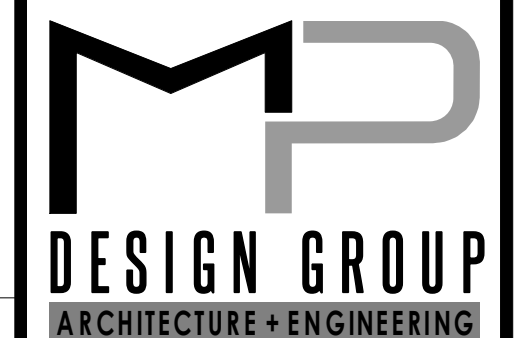
2 NORTH ELEVATION
A201 1/8" = 1'-0"



3 WEST ELEVATION
A201 1/8" = 1'-0"



4 EAST ELEVATION
A201 1/8" = 1'-0"



"Designed to Build"
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

David J. Machado, PE
Brad P. Patano, PE
Gerrod W. Kilpatrick, PE
Bradford A. Jones, AIA



SARACENNIA FIRE STATION
JACKSON COUNTY
SARACENNIA RD, MOSS POINT, MS 39562

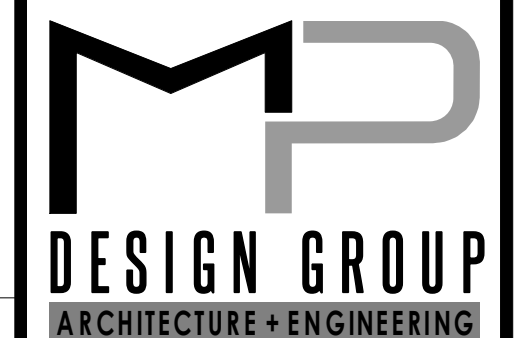
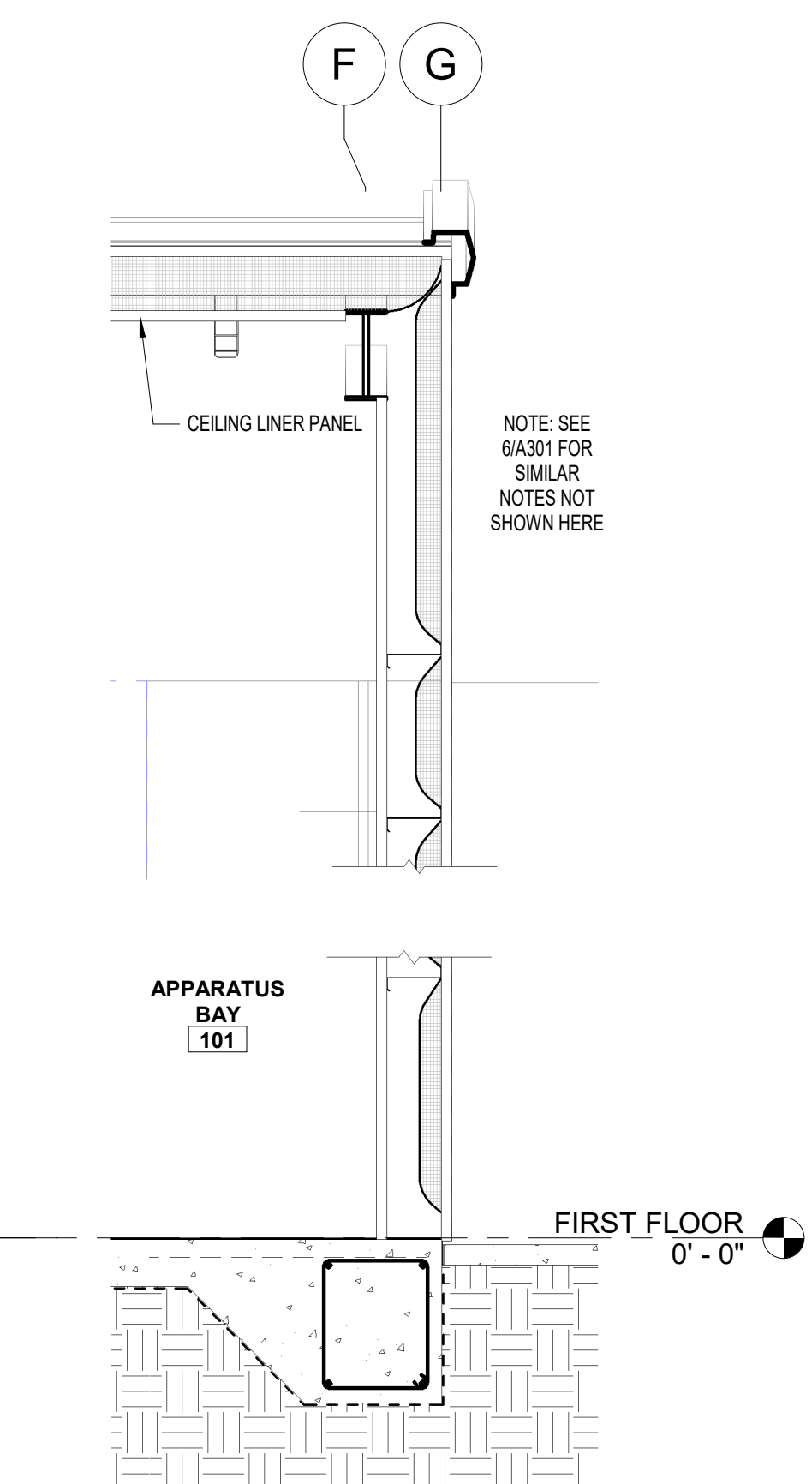
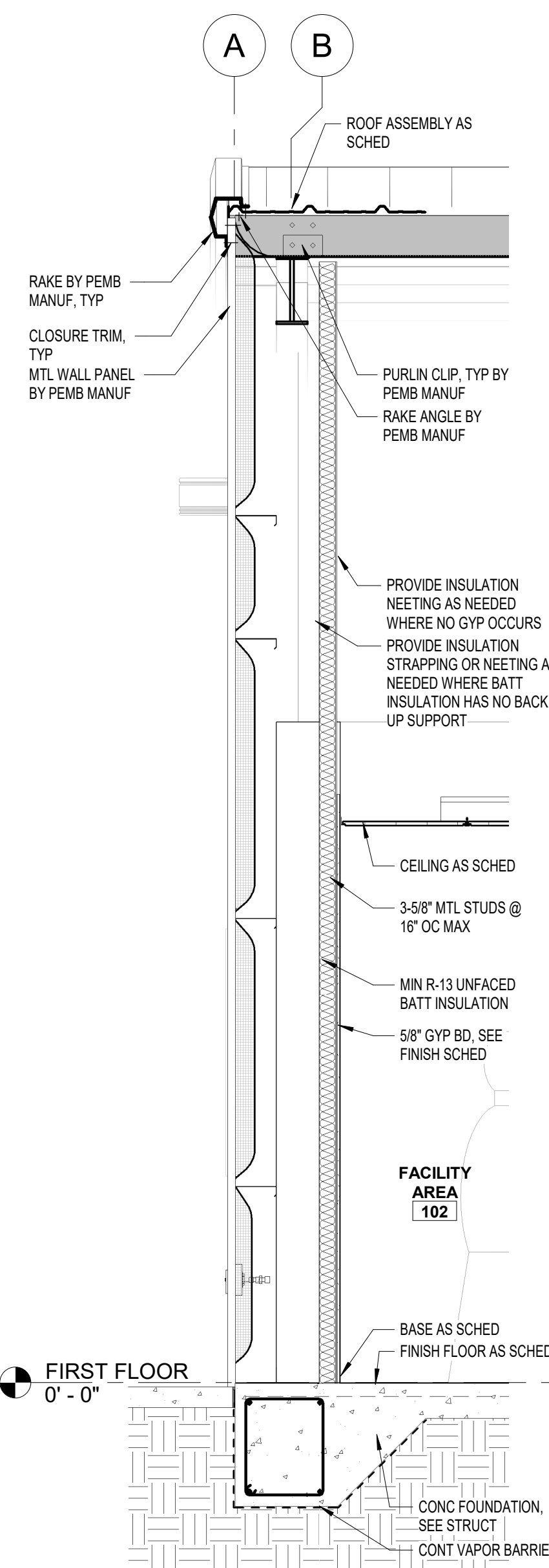
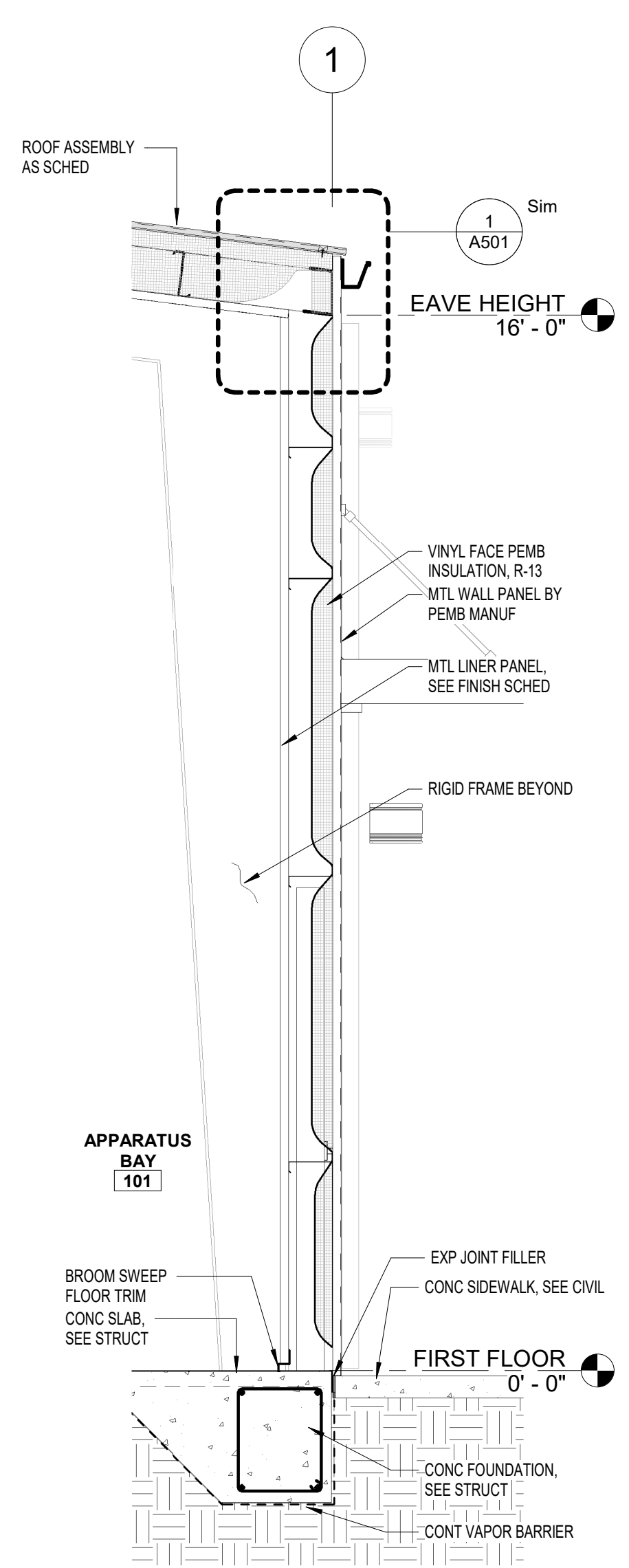
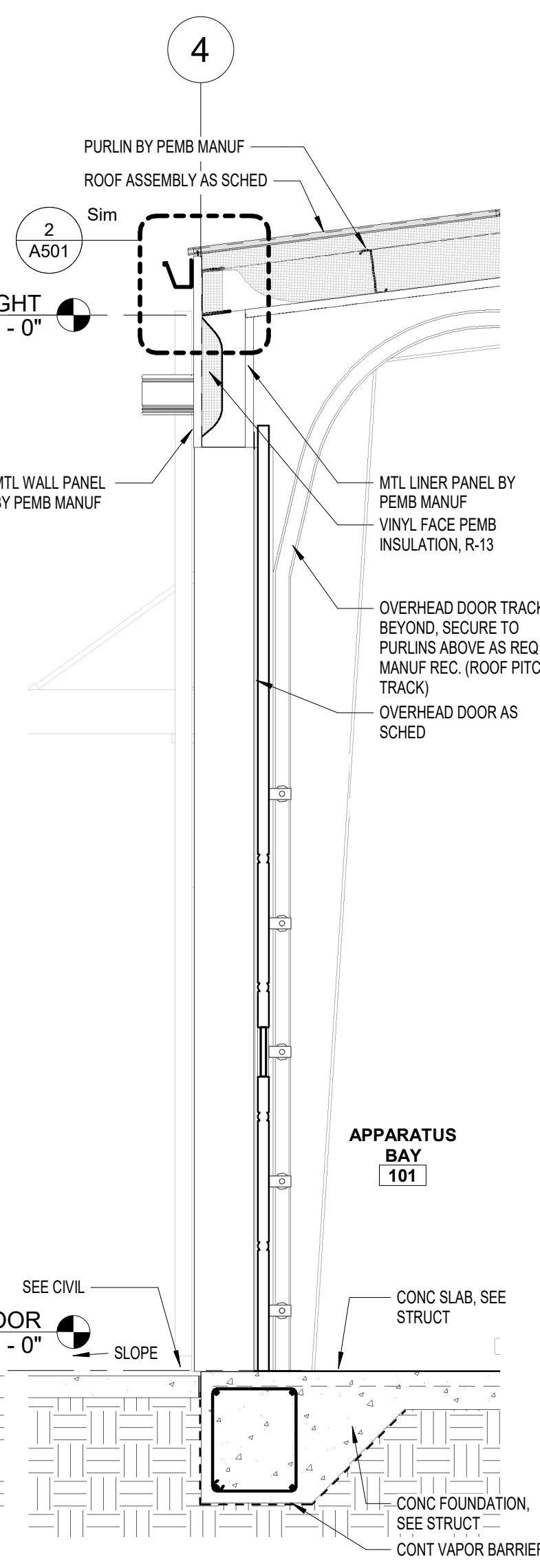
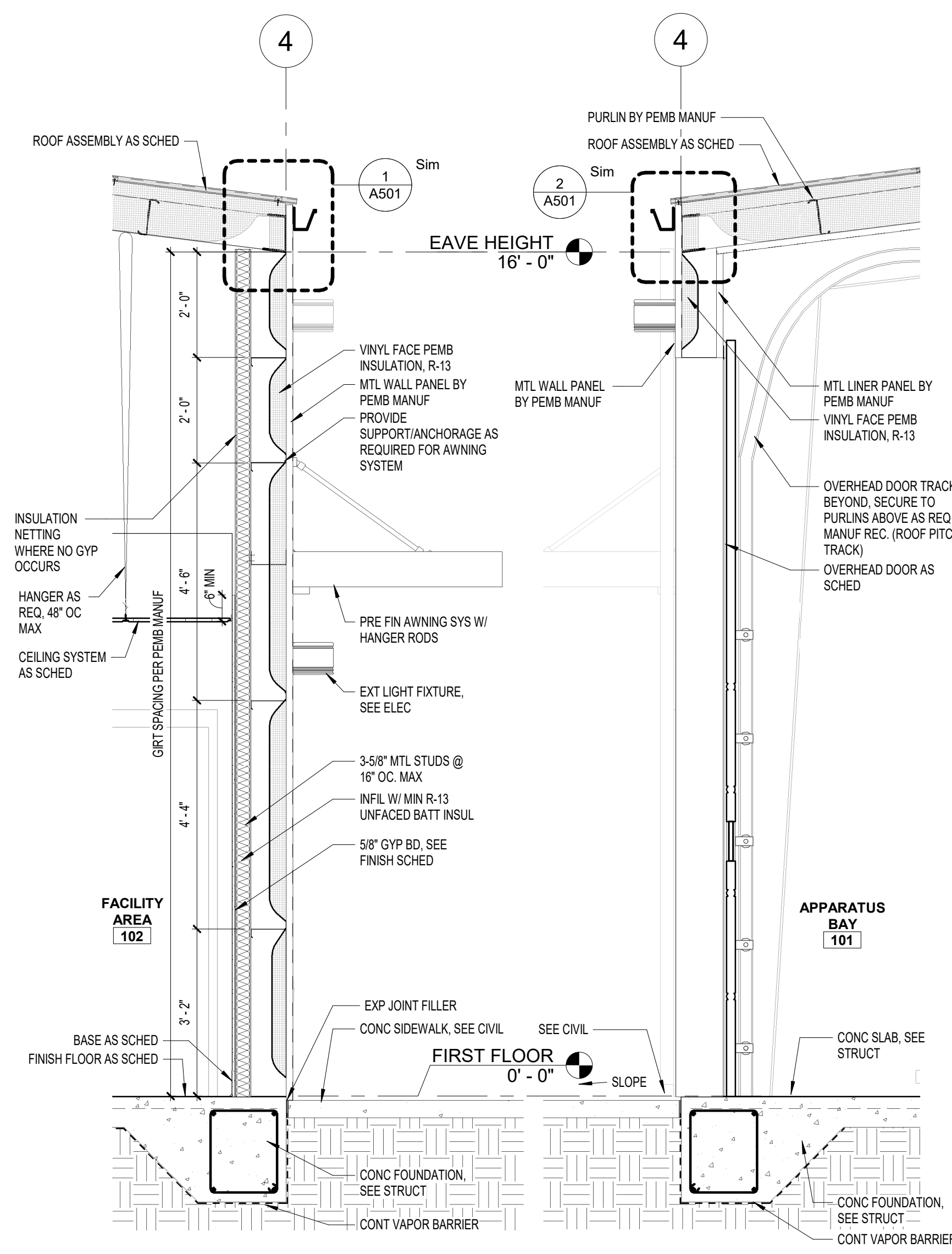
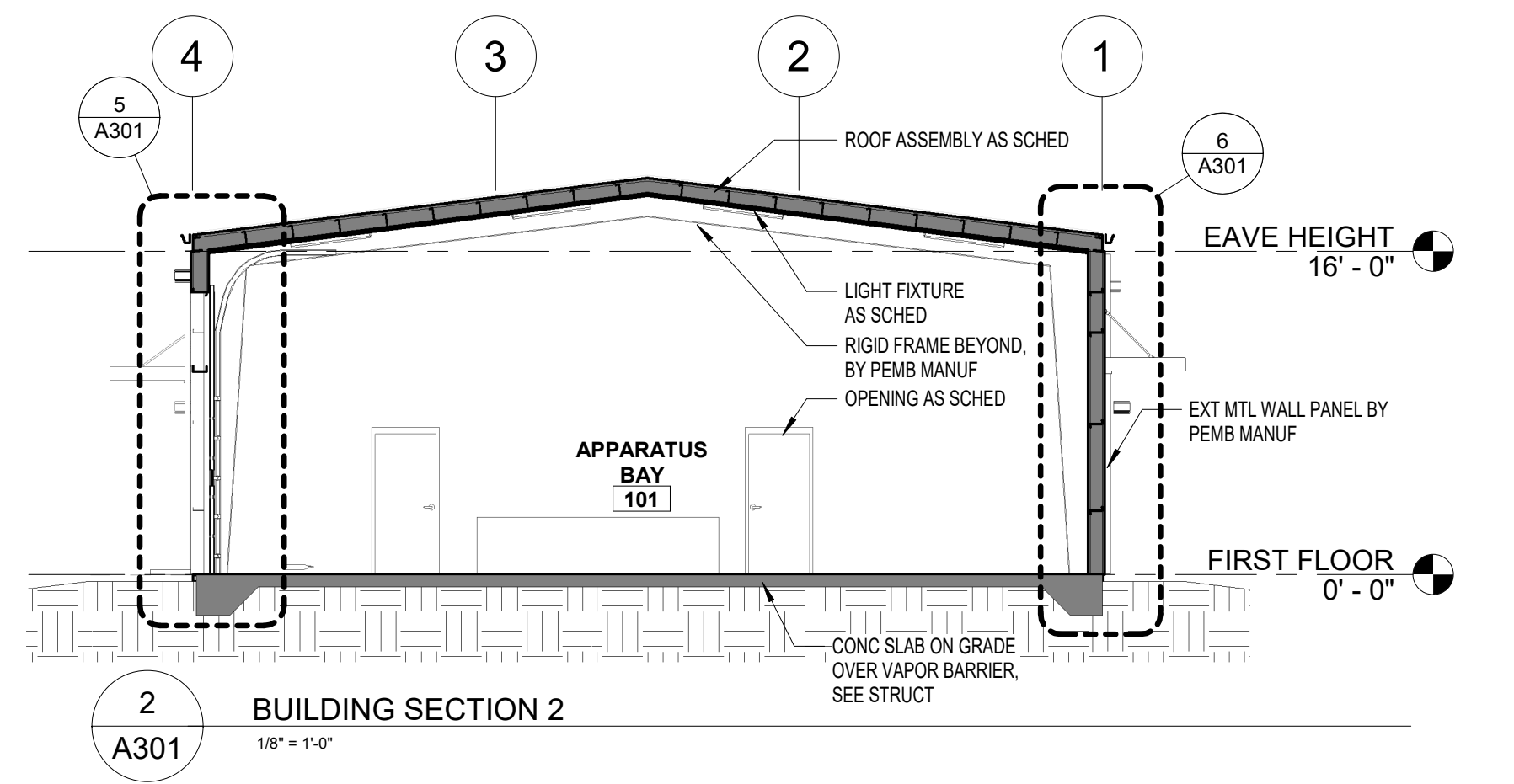
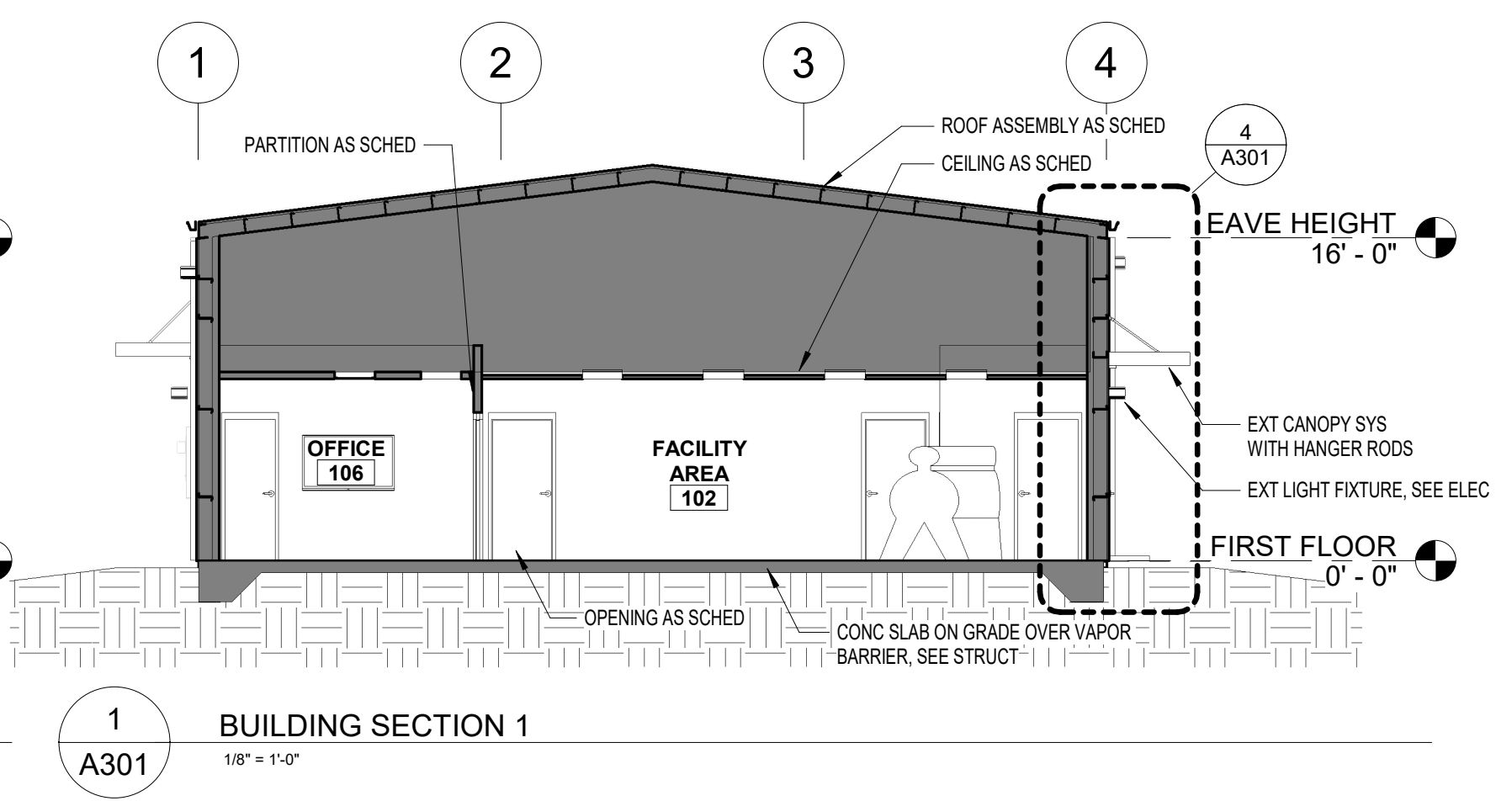
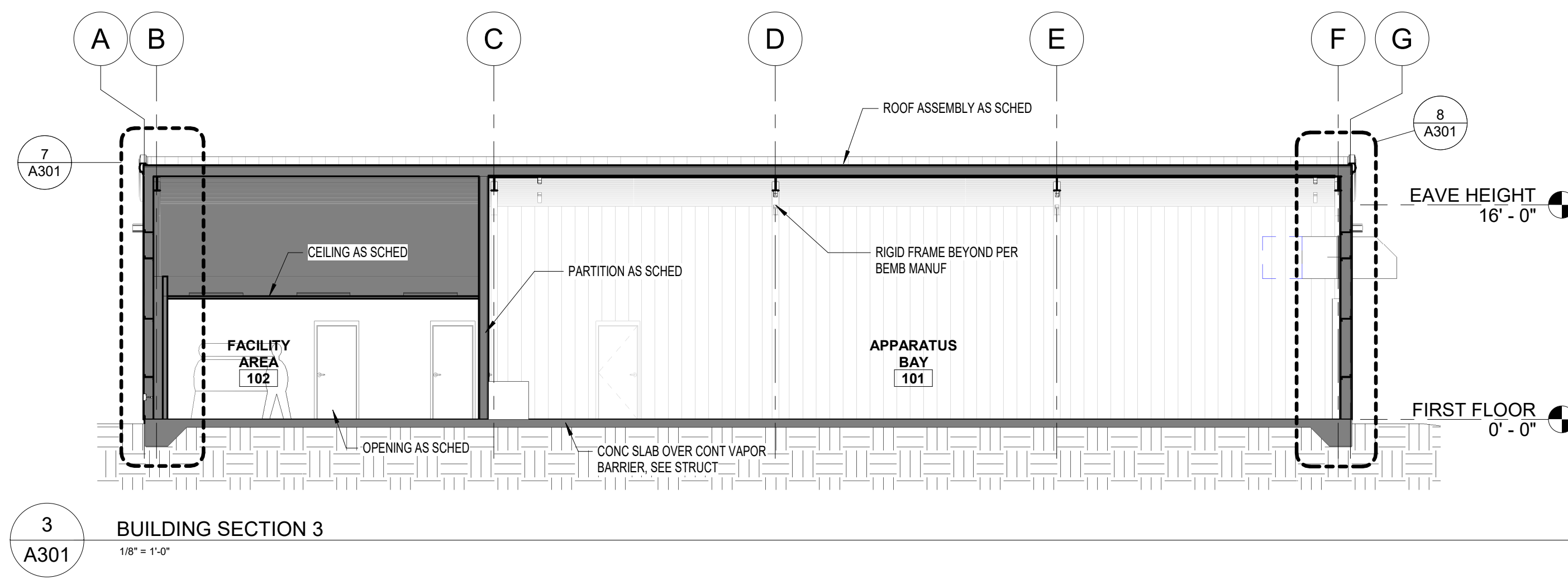
SCALE: AS INDICATED
PROJECT NO: 0004.23.001
DRAWN BY: VJH
CHECKED BY: VJH

EXTERIOR ELEVATIONS

NO.	REVISION / SUBMITTAL	DATE	ISSUED FOR CONSTRUCTION
REV 0		04.07.24	

A201
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL



"Designed to Build"
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

David J. Machado, PE
Brad P. Patano, PE
Gerrod W. Kilpatrick, PE
Bradford A. Jones, AIA



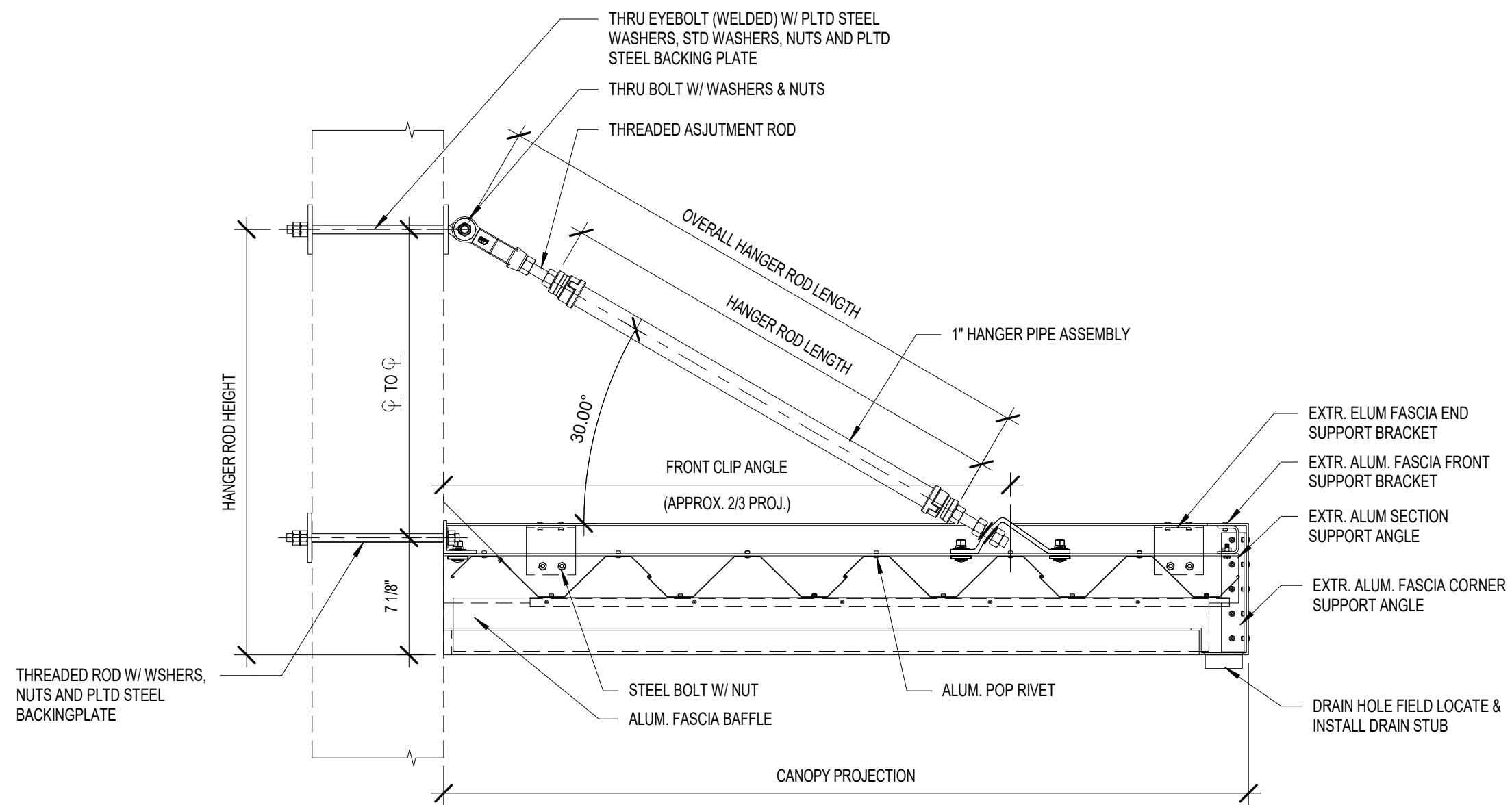
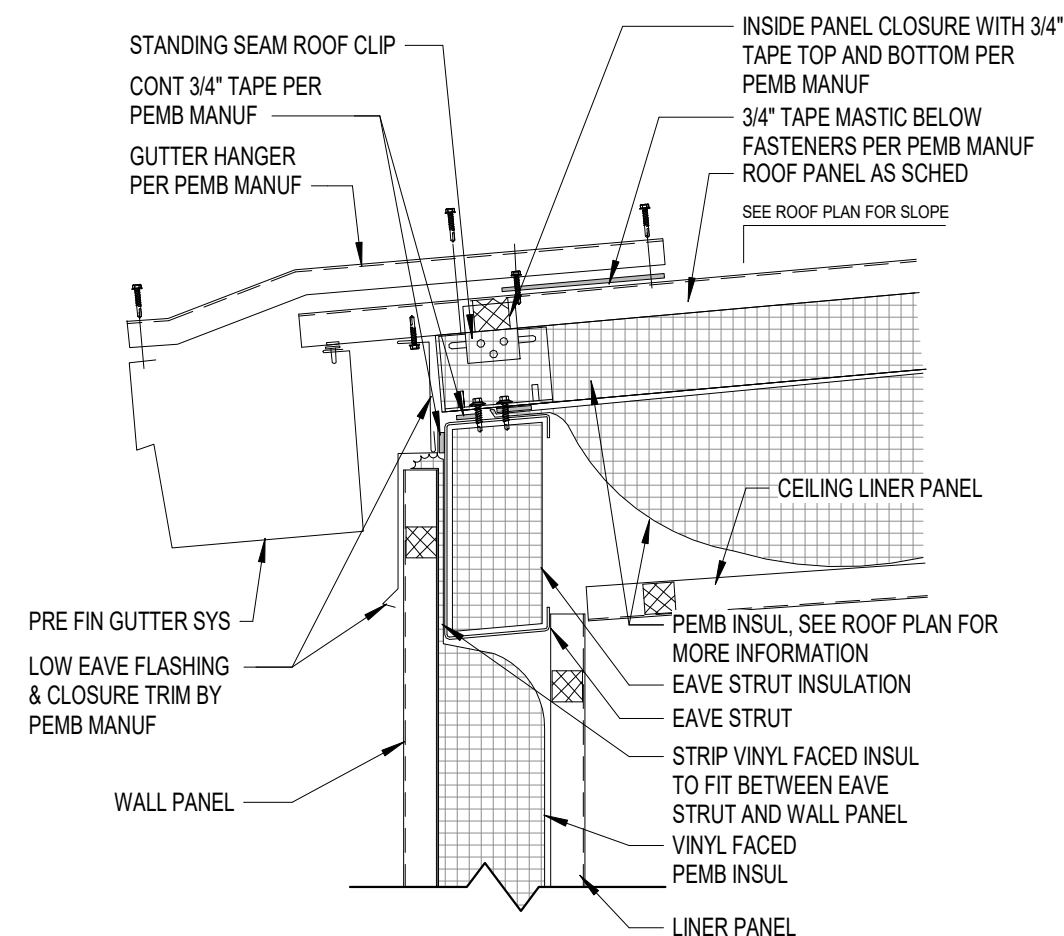
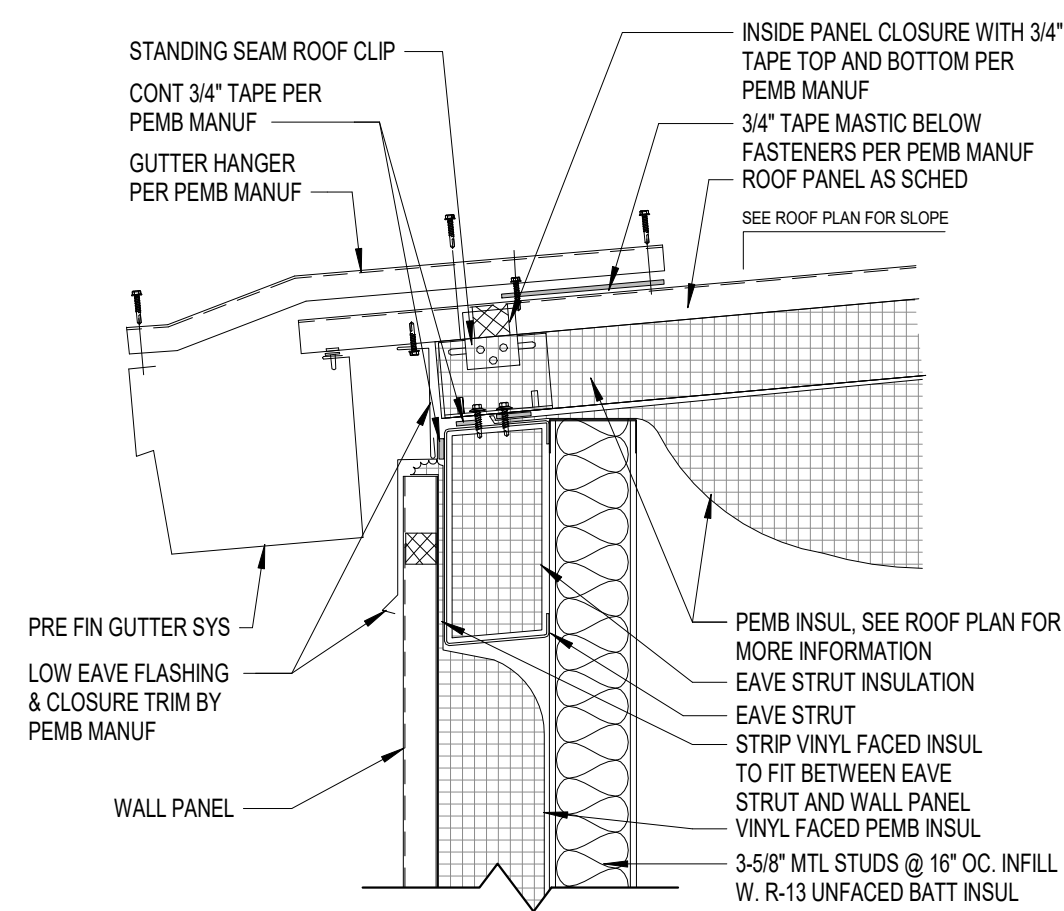
SARACENIA FIRE STATION
JACKSON COUNTY
SARACENIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
PROJECT NO: 0004.23.001
DRAWN BY: VJH
CHECKED BY: VJH

BUILDING SECTIONS AND WALL SECTIONS

NO.	REVISION / SUBMITTAL	DATE	ISSUED FOR CONSTRUCTION
REV 0		04.07.24	

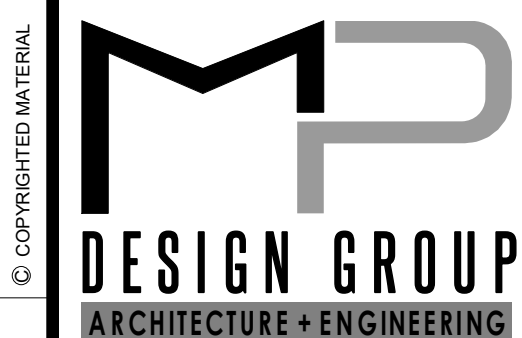
A301
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



1
A501
LOW EAVE DETAIL 1
1 1/2" = 1'-0"

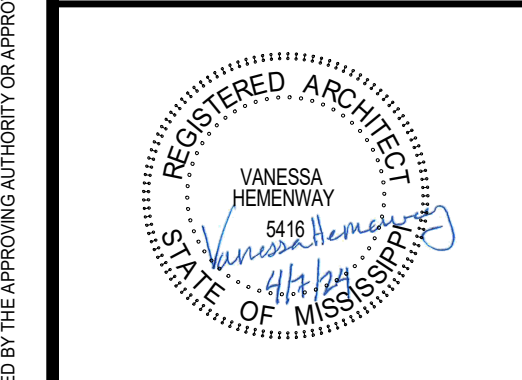
2
A501
LOW EAVE DETAIL 1 Copy 1
1 1/2" = 1'-0"

3
A501
CANOPY - SECTION AT END CANOPY
1 1/2" = 1'-0"



"Designed to Build"
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

David J. Machado, PE
Brad P. Patano, PE
Gerrod W. Kilpatrick, PE
Bradford A. Jones, AIA



SARACENNIA FIRE STATION
JACKSON COUNTY
SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
PROJECT NO: 0004.23.001
DRAWN BY: VJH
CHECKED BY: VJH

SECTION DETAILS

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

A501

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

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO | RILEY, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

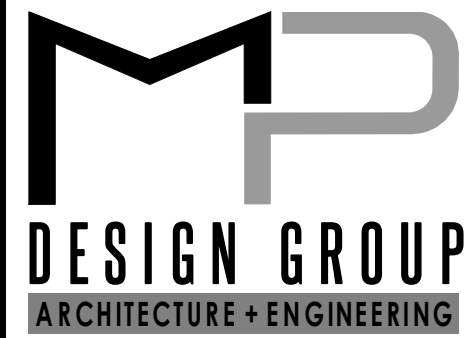
DOOR NO.	DOOR						FRAME						RATING	CLOSER REQ.	REMARKS	DOOR NO.
	SINGLE/PAIR	W	H	TYPE	MTL	GLASS	MTL	TYPE	GLASS	HEAD	JAMB	SILL				
101A	S	3'-0"	7'-0"	2	WD	---	HM	1	---	4/A601	5/A601	---	45 MIN	Yes	C	101A
101B	---	14'-0"	14'-0"	3	PER MANUF	GL1	PER MANUF	---	---	9/A601	10/A601	11/A601	---	---	A, B	101B
101C	---	14'-0"	14'-0"	3	PER MANUF	GL1	PER MANUF	---	---	9/A601	10/A601	11/A601	---	---	A, B	101C
101D	---	14'-0"	14'-0"	3	PER MANUF	GL1	PER MANUF	---	---	9/A601	10/A601	11/A601	---	---	A, B	101D
101E	S	3'-0"	7'-0"	1	GHM	---	GHM	1	---	8/A601	7/A601	8/A601	---	---	D	101E
101F	S	3'-0"	7'-0"	2	WD	---	HM	1	---	4/A601	5/A601	---	45 MIN	Yes	C	101F
102A	S	3'-0"	7'-0"	2	GHM	GL1	GHM	1	---	8/A601	7/A601	8/A601	---	---	D	102A
103A	S	3'-0"	7'-0"	1	WD	---	HM	1	---	4/A601	5/A601	---	---	---	---	103A
104A	S	3'-0"	7'-0"	1	WD	---	HM	1	---	4/A601	5/A601	---	---	---	---	104A
105A	S	3'-0"	7'-0"	1	WD	---	HM	1	---	4/A601	5/A601	---	---	Yes	---	105A
106A	S	3'-0"	7'-0"	1	WD	---	HM	1	---	4/A601	5/A601	---	---	---	---	106A
107A	S	2'-6"	7'-0"	1	WD	---	HM	1	---	4/A601	5/A601	---	---	---	---	107A

OPENING SCHED REMARKS

- A. PROVIDE AUXILIARY ANTENNAS.
- B. AUTOMATIC/ELECTRIC DOOR WITH RED LIGHT/GREEN LIGHT INDICATORS.
- C. PROVIDE SEALS AT ALL OPENING EDGES. OPENING IS ESSENTIALLY AN EXTERIOR DOOR. IT BRIDGES A CONDITIONED SPACE AND A NON CONDITIONED SPACE.
- D. PROVIDE MECHANICAL KEYPAD ACCESS.

GLAZING TYPES

- G-2 CLEAR SAFETY GLAZING
APPLICATION: INTERIOR WINDOWS
- G-6 SOLAR CONTROL LAMINATED TINTED GLAZING
APPLICATION: EXTERIOR DOOR GLAZING
- IG-1 SOLAR CONTROL INSULATED LAMINATED TINTED GLAZING
APPLICATION: EXTERIOR OPENING FRAME GLAZING
- FPG-1 FIRE RATED GLAZING:
AT OPENINGS WITHIN RATED WALLS



"Designed to Build"
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

David J. Machado, PE
Brad P. Patano, PE
Gerrod W. Kilpatrick, PE
Bradford A. Jones, AIA



SARACENIA FIRE STATION

JACKSON COUNTY

SARACENIA RD, MOSS POINT, MS 39562

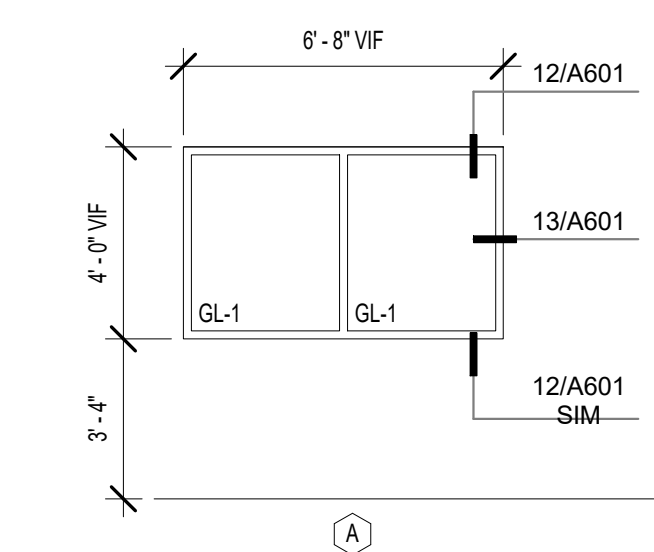
SCALE: AS INDICATED
PROJECT NO: 0004.23.001
DRAWN BY: VJH
CHECKED BY: VJH

OPENING SCHEDULE AND DETAILS

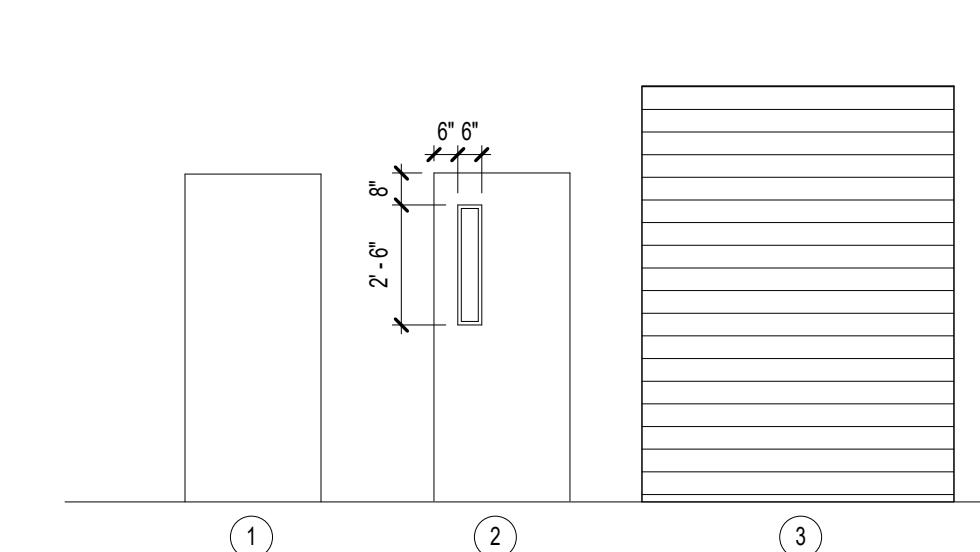
NO.	REVISION / SUBMITAL	DATE
REV 0	ISSUED FOR CONSTRUCTION	04.07.24

A601

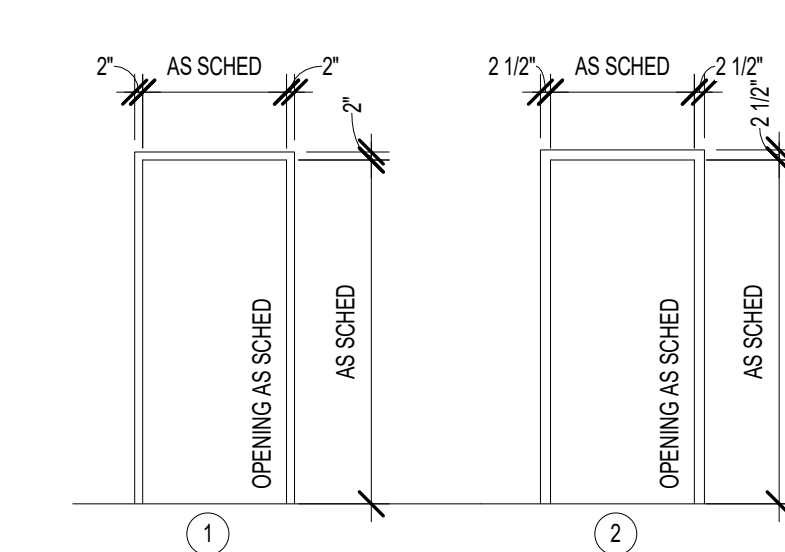
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



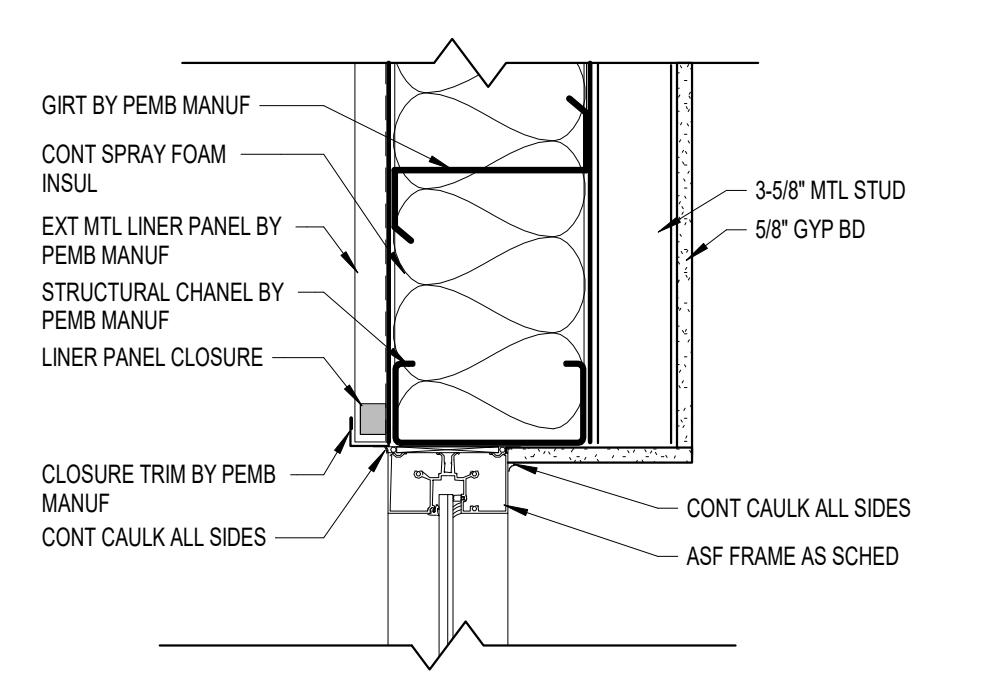
3 WINDOW TYPES
1/4" = 1'-0"



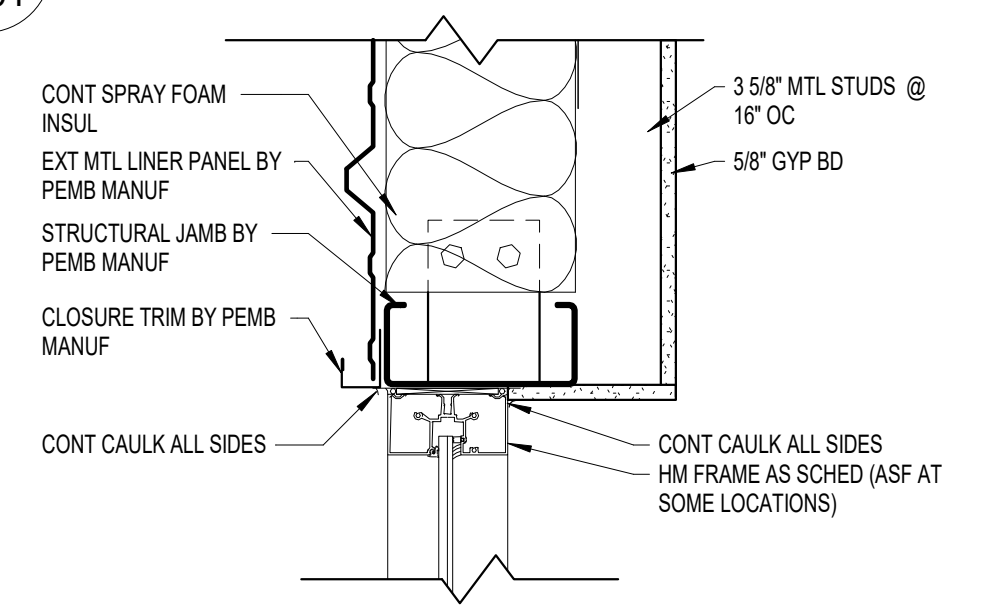
2 DOOR TYPES
1/4" = 1'-0"



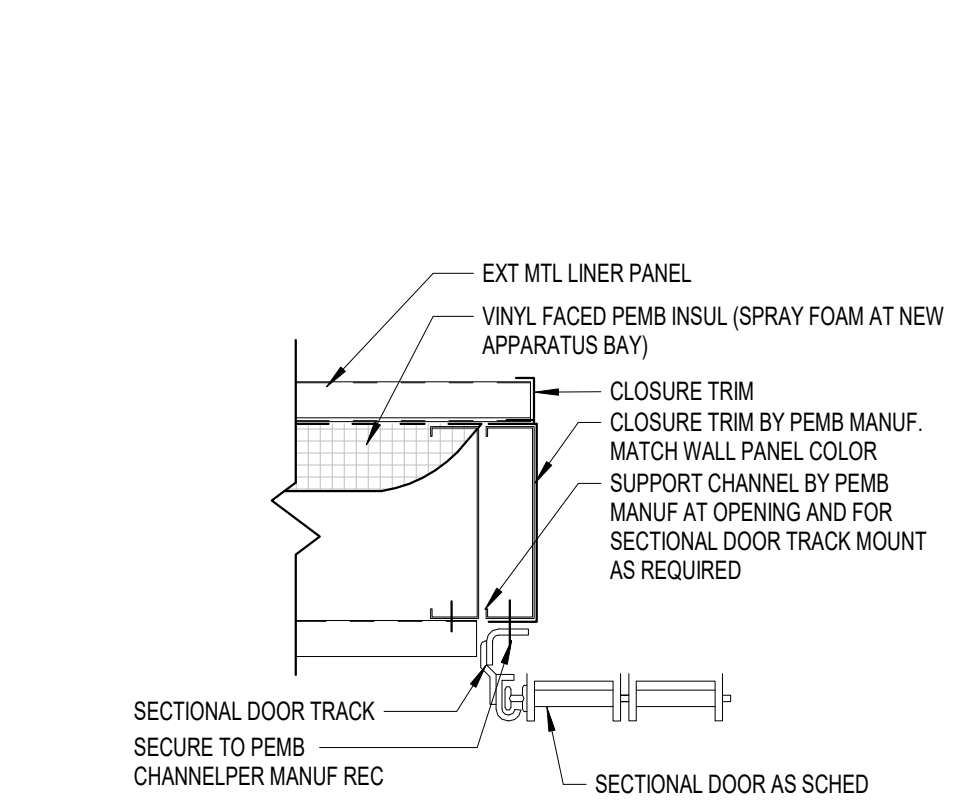
1 FRAME TYPES
1/4" = 1'-0"



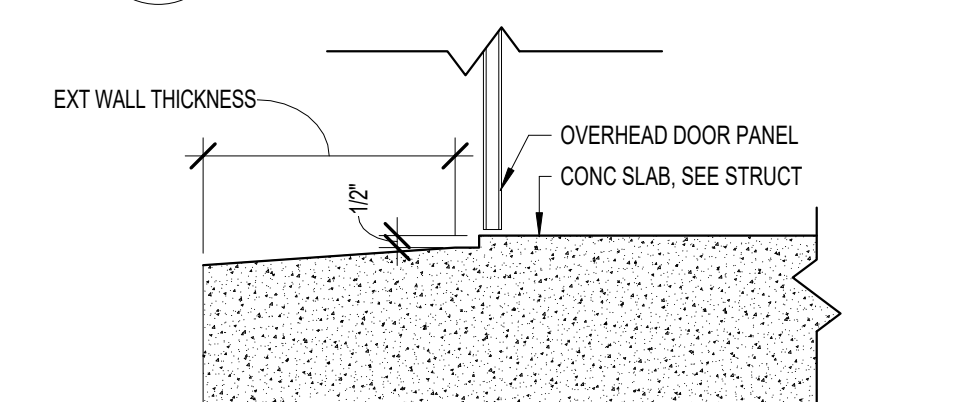
12 EXT ASF WDW HEAD
1 1/2" = 1'-0"



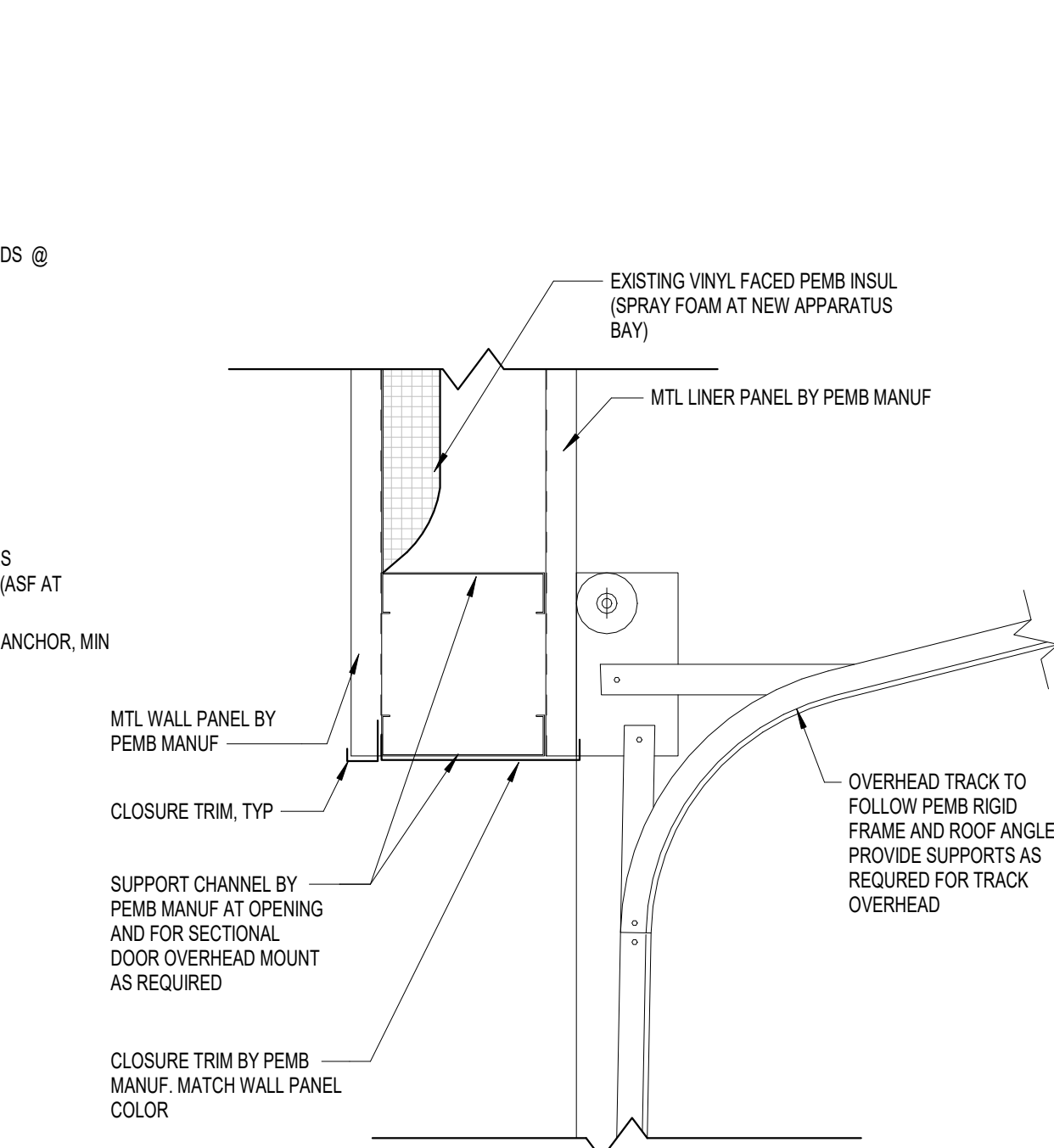
13 EXT ASF WDW JAMB
1 1/2" = 1'-0"



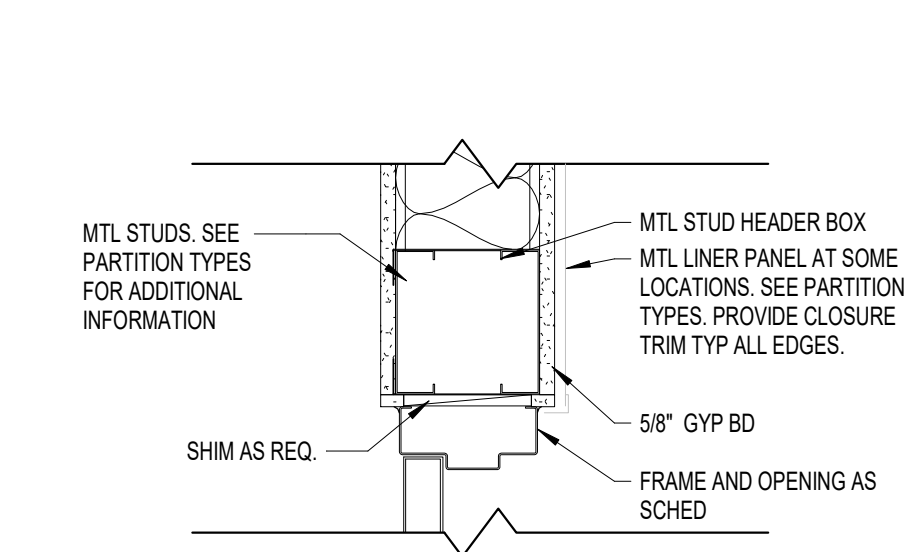
10 SECTIONAL DOOR JAMB TRACK
1 1/2" = 1'-0"



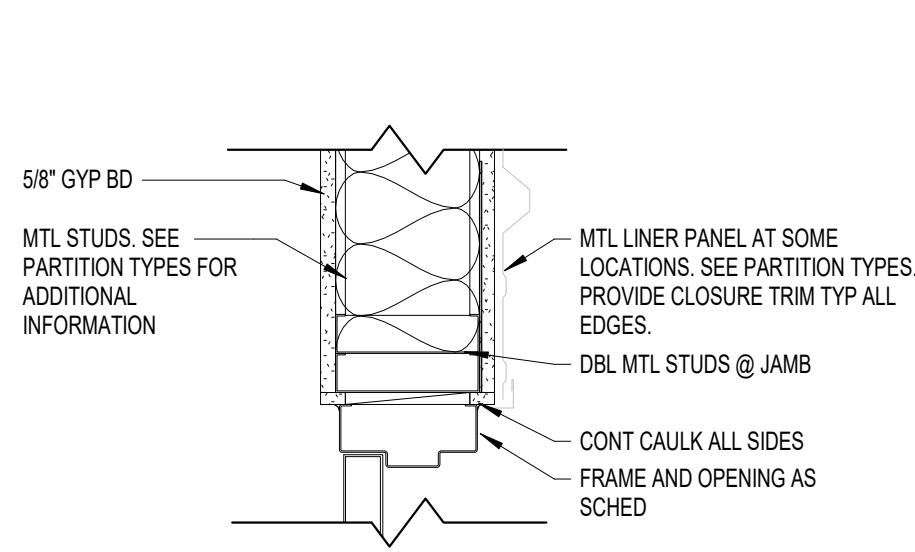
11 SECTIONAL DOOR THRESHOLD
1 1/2" = 1'-0"



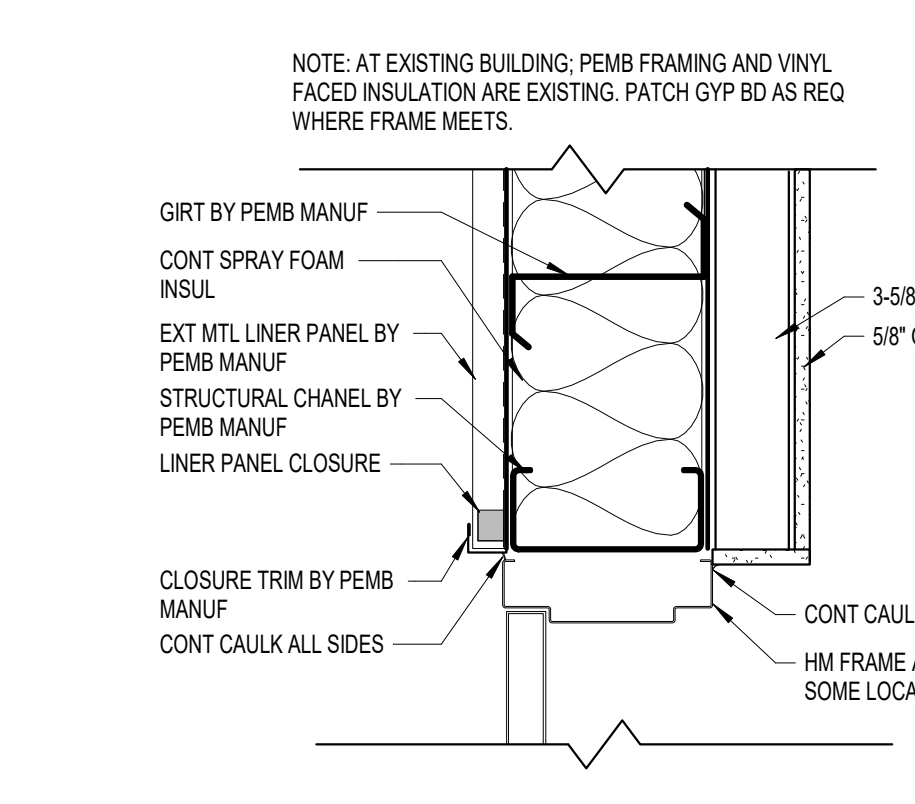
9 SECTIONAL DOOR HEAD
1 1/2" = 1'-0"



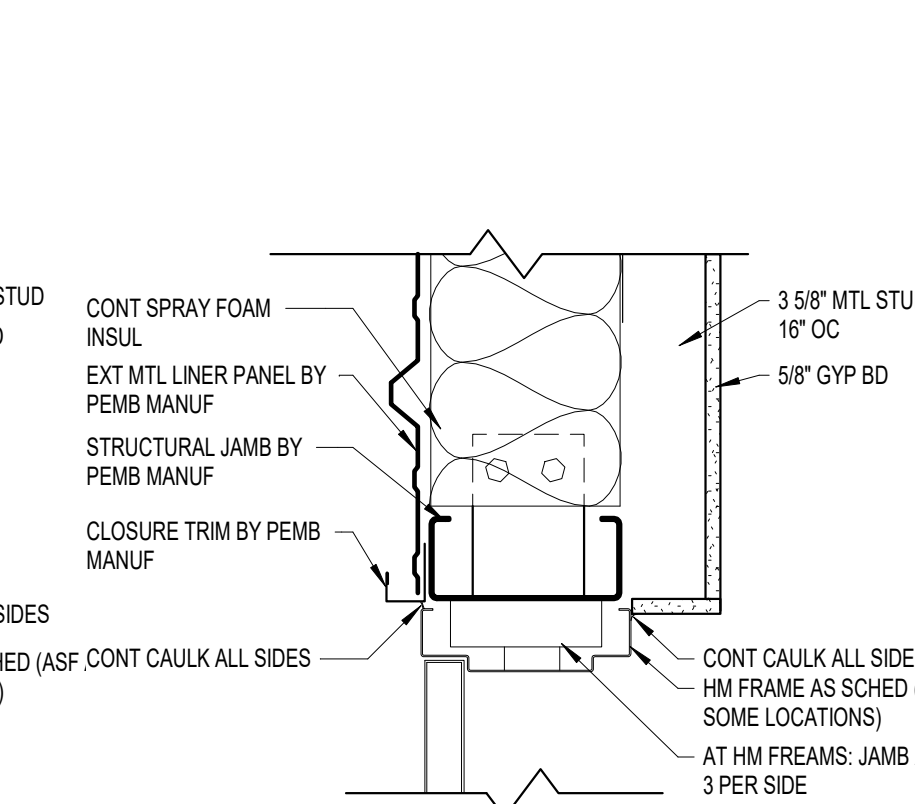
4 INT HM DR HEAD
1 1/2" = 1'-0"



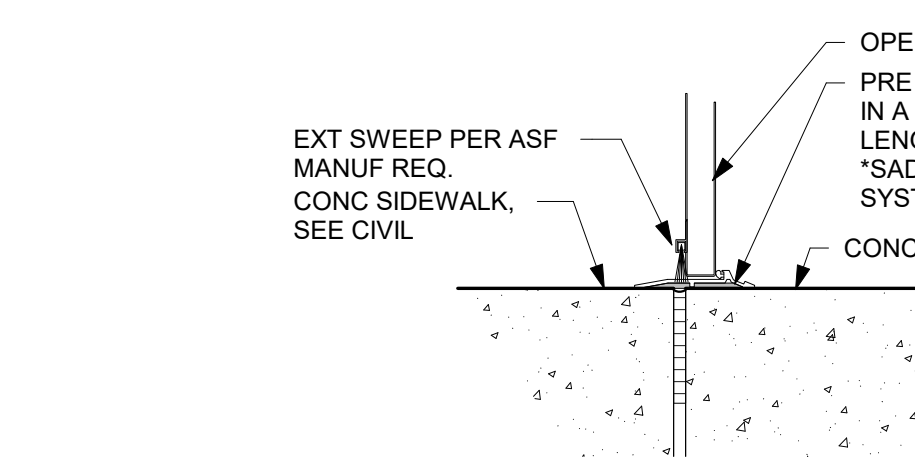
5 INT HM DR JAMB
1 1/2" = 1'-0"



6 EXT DR HEAD
1 1/2" = 1'-0"



7 EXT DR JAMB
1 1/2" = 1'-0"



8 EXT THRESHOLD
1 1/2" = 1'-0"

FINISH KEY SCHEDULE

ITEM:	MATERIAL:	PRODUCT:
FLOOR:		
LVT1	LUXURY VINYL TILE	NEXT FLOOR - PATINA 419 016 ANTIQUE PEWTER - 18X24
SC1	SEALED CONCRETE	PER SPECIFICATIONS
RBR1	6" RUBBER BASE	PER SPECIFICATIONS - COLOR BLACK
FT & TB	FLOOR TILE AND TILE BASE	DALTILE VOLUME 1 - ELECTRIC MOSS 12X24 FIELD SIZE
WALL:		
FRP1	FIBERGLASS REINFORCED PLASTIC PANEL	PER SPECIFICATIONS
PAINT:		
PT1	FIELD COLOR	SHERWIN WILLIAMS: SW 7657 TINSMITH
PT2	GYP CEILING FINISH TYP	SHERWIN WILLIAMS: SW 7004 SNOWBOUND
PT4	@ EXT GHM FRAME & GHM DOOR	SHERWIN WILLIAMS: SW 6258 TRICORN BLACK
PT5	@ INT HM FRAME	SHERWIN WILLIAMS: SW 6258 TRICORN BLACK
CEILING:		
ACT1	24X24 ACOUSTIC CEILING TILE	PER SPECIFICATIONS
GYP1	GYP SUM BOARD	PER SPECIFICATIONS
GYP2	MOISTURE RES GYP SUM BOARD	PER SPECIFICATIONS
MISC:		
PLAM1	PLASTIC LAMINATE: UPPER & LOWER CABINETS, TYP	PER SPECIFICATIONS
PLAM2	PLASTIC LAMINATE: TOPS BACK SIDE SPLASH, TYP	PER SPECIFICATIONS
---	TILE GROUT - WALL AND FLOOR	PER SPECIFICATIONS
WD	WOOD DOOR	PER SPECIFICATIONS

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

GENERAL FINISH NOTES

- PROVIDE MOISTURE MOLD RESISTANT GYPSUM BOARD AT RESTROOM AND JANITOR CLOSET LOCATIONS.
- SEE FINISH FLOOR PLAN FOR FLOOR PATTERN OF FLOORING MATERIALS.
- PROVIDE FRP PANEL BEHIND MOP SINK AS SCHEDULED.

GENERAL FINISH REMARKS

- NONE.

ROOM FINISH SCHEDULE

RM NO.	ROOM NAME	ROOM STYLE SET	FLOOR FINISH		WALL FINISHES				CEILING TYPE	REMARKS
			FINISH FLOOR	BASE	NORTH	EAST	SOUTH	WEST		
101	APPARATUS BAY	(none)	SC 1	PER MANUF	MTL-LP	MTL-LP	MTL-LP	MTL-LP	MTL-LP	
103	JAN CLO	(none)	RBR1	RBR	PT-1	PT-1	PT-1	PT-1	ACT 1	
104	HVAC	(none)	---	---	---	---	---	---	---	
102	FACILITY AREA	(none)	LVT 1	RBR	PT-1	PT-1	PT-1	PT-1	ACT 1	
106	OFFICE	(none)	LVT 1	RBR	PT-1	PT-1	PT-1	PT-1	GYP	
105	BATHROOM	(none)	FT	TB	PT-1	PT-1	PT-1	PT-1	MR GYP	
107	STO	(none)	LVT 1	RBR	PT-1	PT-1	PT-1	PT-1	GYP	

ENLARGED RR NOTES

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

RESTROOM/JANITOR ACCESSORY SCHEDULE

SYMBOL	ACCESSORY	MOUNTING HEIGHT	NOTES
(A)	36" GRAB BAR (REAR OF WC)	33" - 36" AFF	1
(B)	42" GRAB BAR (SIDE OF WC)	33" - 36" AFF	1
(C)	NOT USED	---	
(D)	TOILET TISSUE DISPENSER	18" MIN AFF MAX TO BOTTOM OF TISSUE	1,4
(E)	MIRROR 18" X 36"	40" AFF MAX TO REFLECTIVE SURFACE	2
(F)	SOAP DISPENSER	44"-48" MAX TO OPERABLE PART	1,4
(G)	34" MOP HOLDER W/ SHELF	---	1
(H)	FIBERGLASS REINFORCED PANEL (FRP)	---	3
(I)	ROBE HOOK	42" AFF ON RR SIDE OF DOOR	1
(J)	SHOWER GRAB BAR	33" MIN - 38" MAX TO GRIPPING SURFACE	1
(K)	SHOWER TRANSFER BENCH	17" MIN - 19" MAX TO TOP OF SEAT	1
(L)	SHOWER CURTAIN ROD	---	1

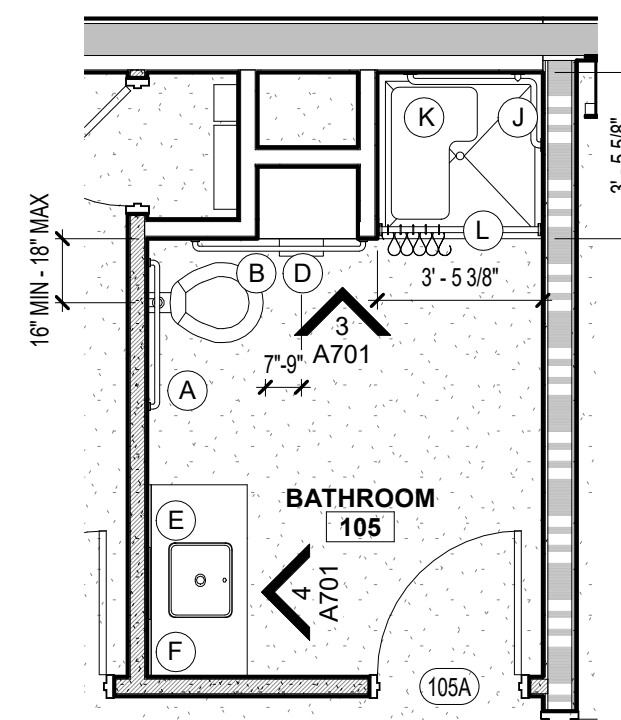
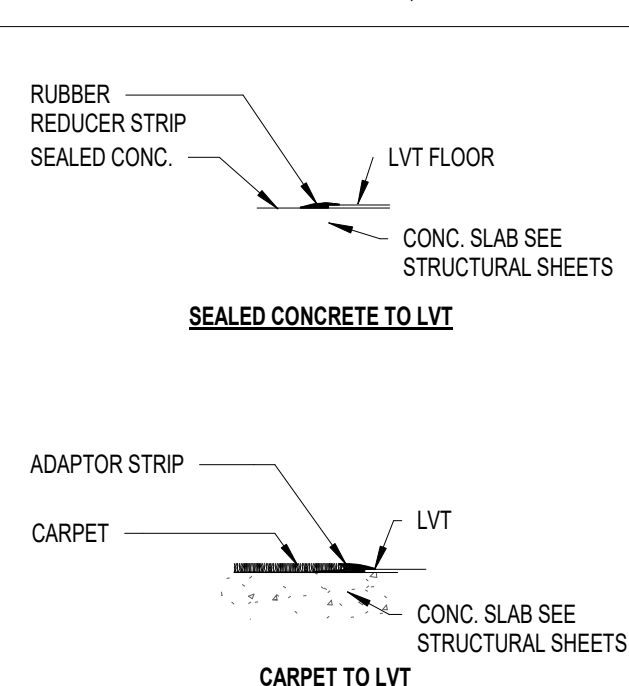
ACCESSORY NOTES

- FIELD VERIFY MOUNTING HEIGHTS WITH ARCHITECT BEFORE INSTALLATION. ALL MOUNTING HEIGHTS SHALL COMPLY WITH ADA REQUIREMENTS & MANUFACTURER RECOMMENDATIONS.
- ATTACH MIRROR PER MANUFACTURER RECOMMENDATIONS. CENTER MIRROR WITH LAVATORY OR LAVATORY UNIT BELOW.
- PROVIDE FRP UP TO 6'-0" TALL AND EXTEND PAST SIDES OF MOP SINK MINIMUM 12 INCHES. PROVIDE TRIM PIECES FOR EXPOSED EDGES OF FRP.
- NIC - NOT IN CONTRACT, OWNER FURNISHED/OWNER INSTALLED
- MOUNTING HEIGHT DIMENSION IS TO THE CENTER LINE OF THE BOTTOM ATTACHMENT.

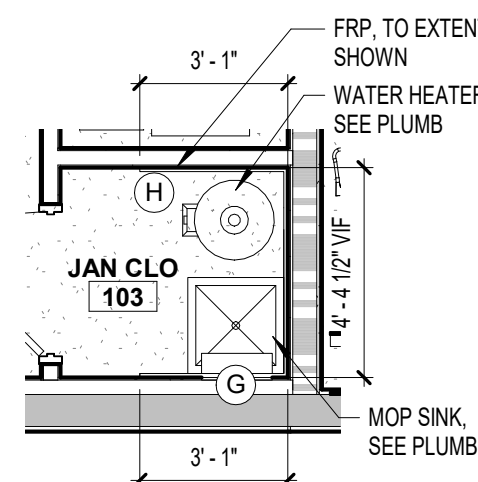
ROOM SIGNAGE SCHEDULE

DOOR NO.	DOOR SINGLE/PAIR	SIGNAGE REQUIRED	SIGNAGE TEXT	ADA SYMBOL	DOOR NO.
101A	S	No	---		101A
101B	---	No	---		101B
101C	---	No	---		101C
101D	---	No	---		101D
101E	S	Yes	APPARATUS BAY / FACILITY AREA (2 SIGNS)		101E
101F	S	Yes	APPARATUS BAY / FACILITY AREA (2 SIGNS)		101F
102A	S	No	---		102A
103A	S	Yes	JANITOR CLOSET		103A
104A	S	Yes	MECHANICAL		104A
105A	S	Yes	RESTROOM		105A
106A	S	Yes	OFFICE		106A
107A	S	No	---		107A

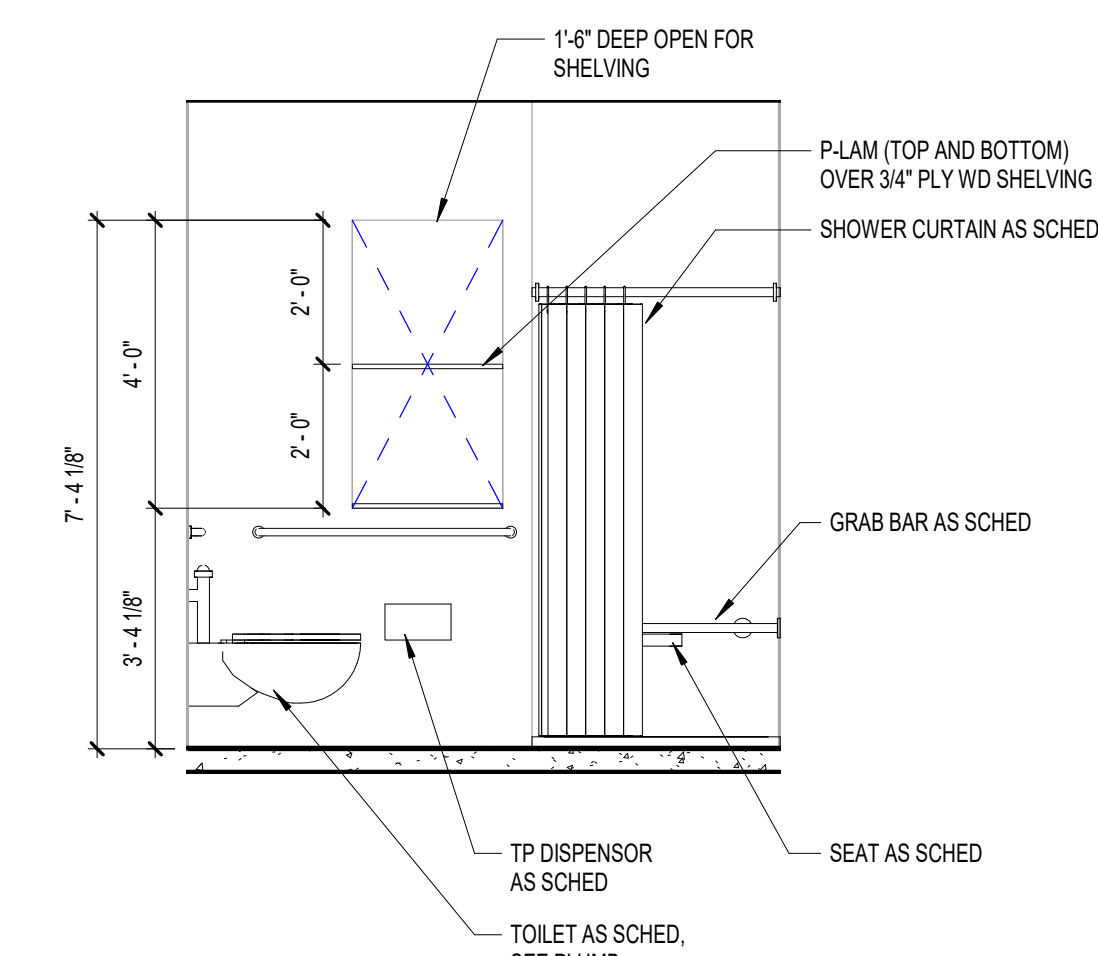
FINISH FLOOR TRANSITIONS, TYPICAL



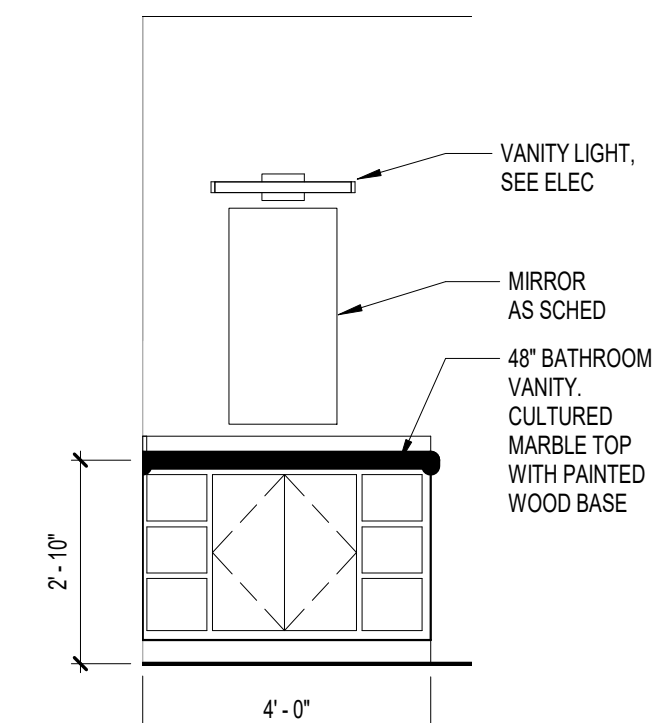
1 ENLARGED RR PLAN
1/4" = 1'-0"



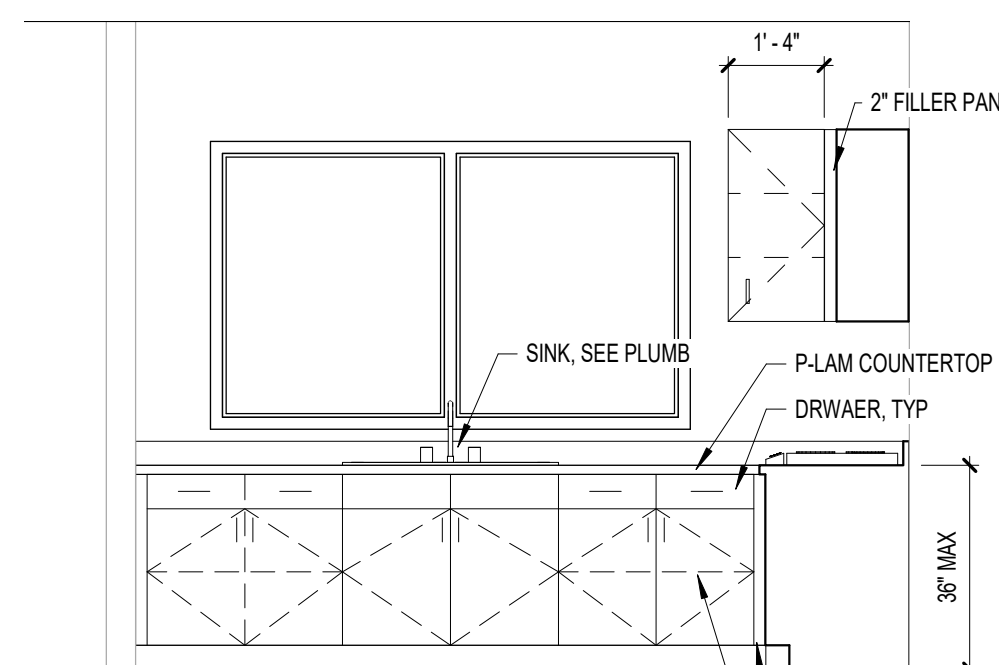
2 ENLARGED JAN CLO
1/4" = 1'-0"



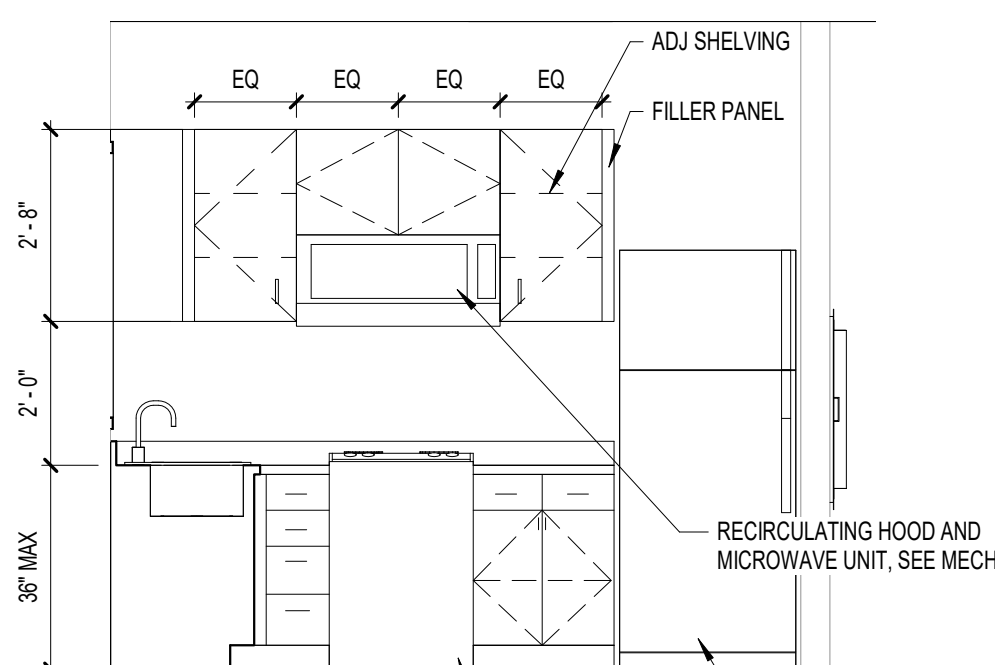
3 RR ELEVATION 1
3/8" = 1'-0"



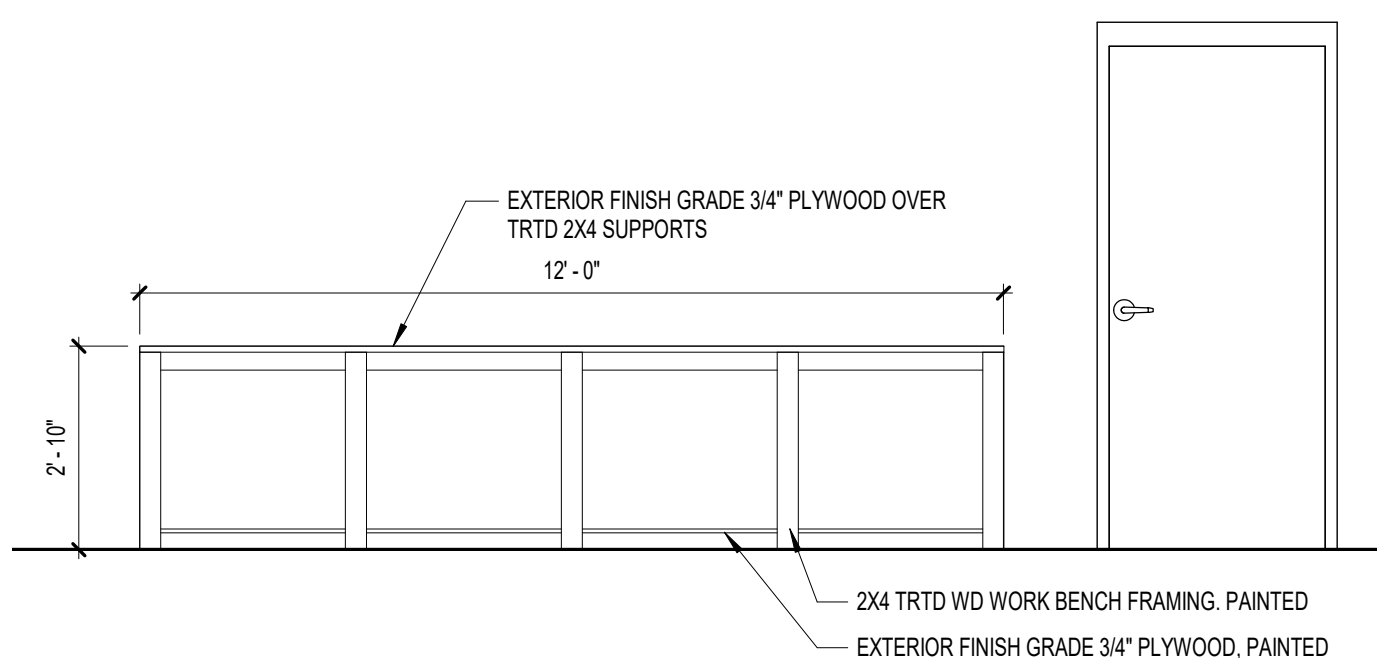
4 RR MILLWORK ELEV
3/8" = 1'-0"



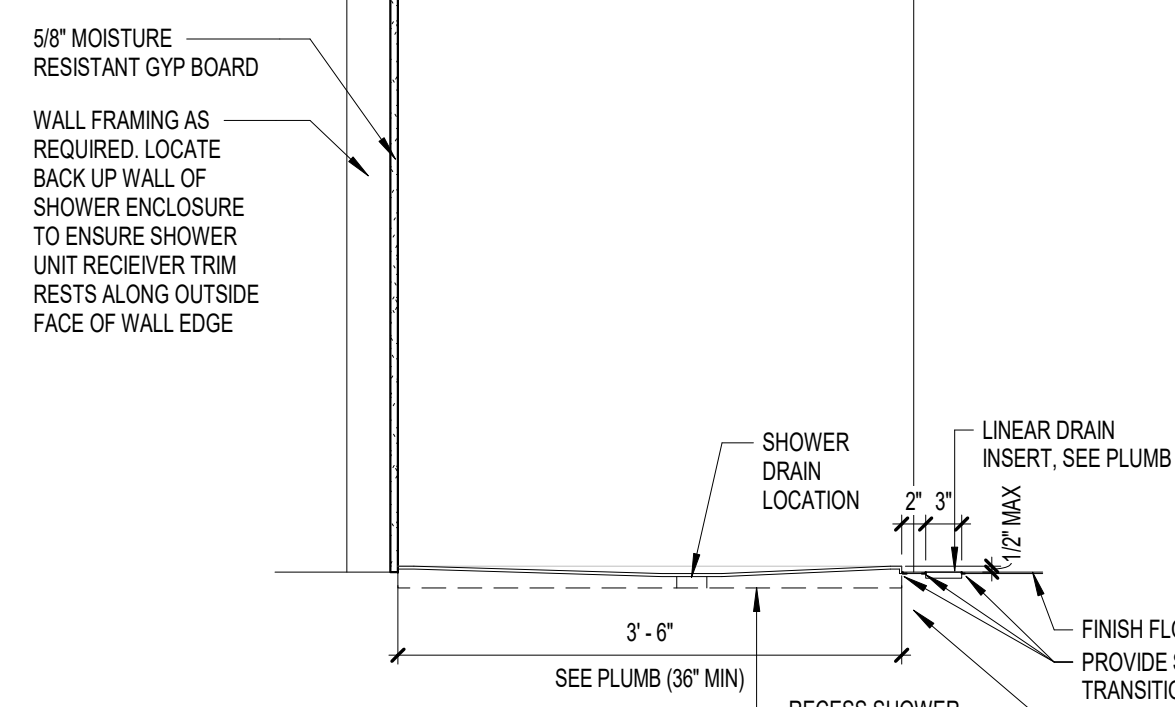
6 KITCHEN MILLWORK ELEV 1
3/8" = 1'-0"



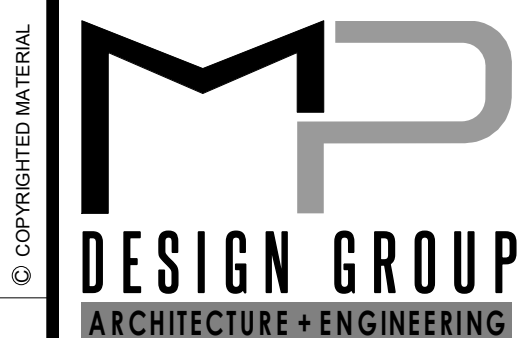
7 KITCHEN MILLWORK ELEV 2
3/8" = 1'-0"



8 APPARATUS BAY WORK BENCH
3/8" = 1'-0"

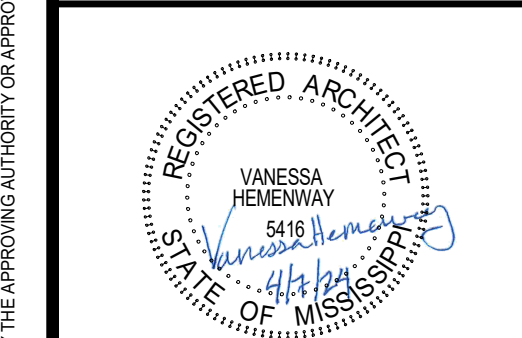


9 SHOWER DETAIL
3/4" = 1'-0"



ARCHITECTURE + ENGINEERING
"Designed to Build"
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

David J. Machado, PE
Brad P. Patano, PE
Gerrod W. Kilpatrick, PE
Bradford A. Jones, AIA



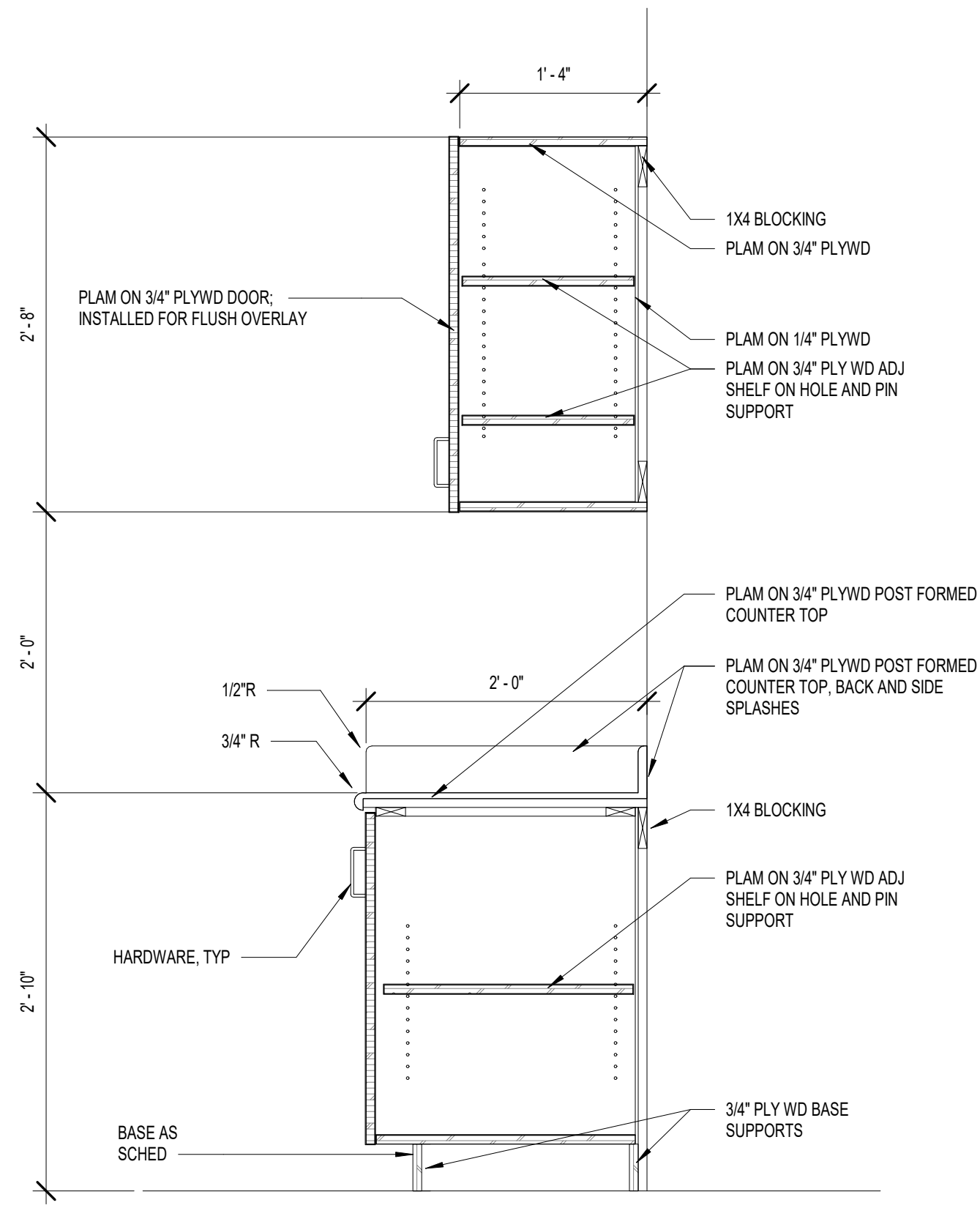
SARACENIA FIRE STATION
JACKSON COUNTY
SARACENIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
PROJECT NO: 0004.23.001
DRAWN BY: VJH
CHECKED BY: VJH

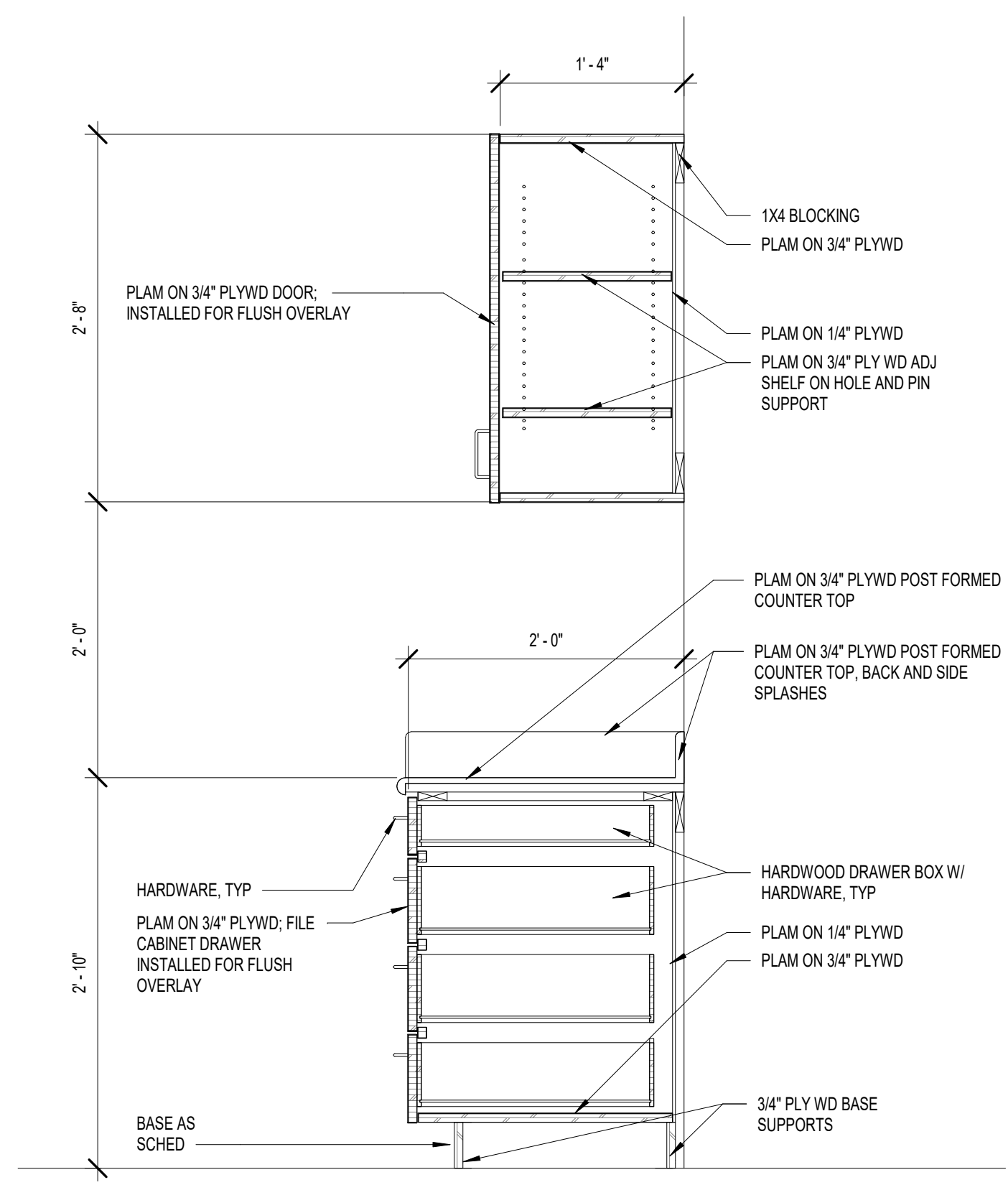
ROOM FINISH SCHEDULE:
ENLARGED PLANS AND MILLWORK

NO.	REVISION / SUBMITTAL	DATE
REV 0	ISSUED FOR CONSTRUCTION	04.07.24

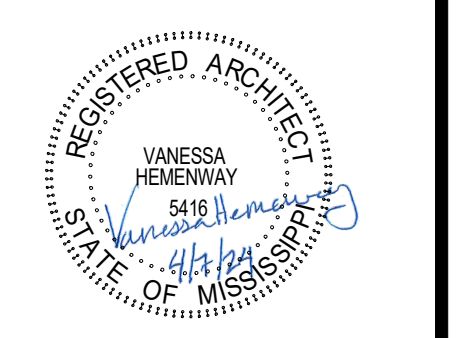
A701
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



1
MILLWORK SECTION 1
1" = 1'-0"



2
MILLWORK SECTION 2
1" = 1'-0"



SARACENNIA FIRE STATION

JACKSON COUNTY

SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
PROJECT NO: 0004.23.001
DRAWN BY: VJH
CHECKED BY: VJH

MILLWORK SECTIONS

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

A730

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

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

PRINTED: 3/20/2024 11:04 AM BY: Tyler Abell LAST SAVED: 2/22/2024 1:56 PM BY: Tabell
m:\0004_jackson county\0004.23.001_saracenia fire station\mechanical\02-production drawings\saracenia fire station_mechanical.dwg

PLUMBING NOTES

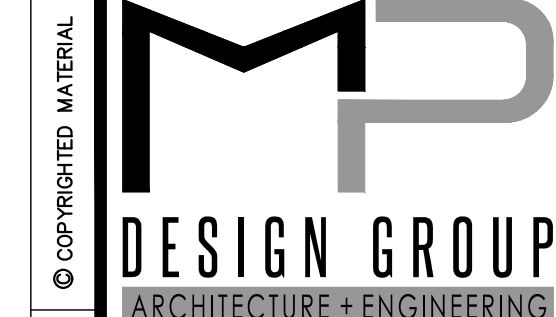
- A. GENERAL**
- ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE INTERNATIONAL CODE AND ALL LOCAL ORDINANCES AS ADOPTED BY THE LOCAL JURISDICTION.
 - CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR THE COMPLETE INSTALLATION AND OPERATION OF THE SYSTEMS INDICATED ON THE CONTRACT DOCUMENTS AND DRAWINGS EVEN IF NOT SPECIFICALLY SHOWN.
 - THE DRAWINGS ARE, IN PART, DIAGRAMMATIC AND DO NOT ALWAYS SHOW ALL NECESSARY MATERIALS AND EQUIPMENT TO SCALE OR IN EXACT LOCATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL MEASUREMENTS, COORDINATE ALL WORK WITH OTHER TRADES, REVIEW ALL ARCHITECTURAL AND STRUCTURAL DRAWINGS, AND VISIT THE JOBSITE TO MAKE APPROPRIATE MEASUREMENTS.
 - CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS AND SHALL PAY ALL ASSOCIATED FEES FOR SCOPE OF WORK.
 - WHEN THE SPECIFICATIONS OR DRAWINGS ARE UNCLEAR OR IN CONFLICT WITH CODES OR OTHER TRADES, THE CONTRACTOR SHALL BRING THIS TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE SUBMITTING A BID.
 - SUBMITTALS AND SHOP DRAWINGS FOR ALL EQUIPMENT, MATERIALS, AND ACCESSORIES SHALL BE PROVIDED TO THE OWNER AND ENGINEER FOR REVIEW AND COMMENT PRIOR TO ORDER, MANUFACTURE, FABRICATION, AND INSTALLATION. FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR OF THE RESPONSIBILITY, CONSEQUENCES, AND POSSIBLE COSTS OF SUCH ACTION OR LACK OF ACTION REGARDLESS OF ANY AND ALL ERRORS OR OMISSIONS ON THESE DOCUMENTS. THIS ENGINEER SHALL NOT BE HELD LIABLE FOR ANY COSTS ASSOCIATED WITH THIS CONTRACTOR'S FAILURE TO COMPLY WITH THIS ITEM. IF SUBSTITUTIONS FOR SPECIFIED ITEMS ARE MADE, IT IS THIS CONTRACTOR'S RESPONSIBILITY TO PROVE PERFORMANCE, COMPATIBILITY, AND CONFORMANCE WITH THE ORIGINAL DESIGN AND SPECIFICATIONS. RE-DESIGN BY THIS ENGINEER TO ACCOMMODATE SUBSTITUTIONS SHALL NOT BE PERFORMED. OTHERWISE, IT WILL BE CONSIDERED ADDITIONAL WORK FOR WHICH COMPENSATION WILL BE REQUIRED.
 - ALL ACTUAL EQUIPMENT, MATERIALS, AND ACCESSORIES TO BE INSTALLED SHALL BE FULLY COORDINATED WITH THE ELECTRICAL, MECHANICAL, CIVIL, STRUCTURAL, AND ARCHITECTURAL CONTRACTORS PRIOR TO ORDER, MANUFACTURE, FABRICATION, AND INSTALLATION. THIS INCLUDES BUT IS NOT LIMITED TO ELECTRICAL DATA, WEIGHTS, PLUMBING REQUIREMENTS, DIMENSIONS, PENETRATIONS, ETC. FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR OF THE RESPONSIBILITY, CONSEQUENCES, AND POSSIBLE COSTS OF SUCH ACTION OR LACK OF ACTION REGARDLESS OF ANY AND ALL ERRORS OR OMISSIONS ON THESE DOCUMENTS. THIS ENGINEER SHALL NOT BE HELD LIABLE FOR ANY COSTS ASSOCIATED WITH THIS CONTRACTOR'S FAILURE TO COMPLY WITH THIS ITEM.
 - ANY AND ALL DEVIATIONS FROM THE DESIGN DOCUMENTS WITHOUT THIS ENGINEER'S APPROVAL INDICATES ACCEPTANCE BY THIS CONTRACTOR AND/OR OWNER FOR THE RESPONSIBILITY OF THE PERFORMANCE OF THE SYSTEM AFFECED. THIS ENGINEER SHALL NOT BE HELD LIABLE FOR ANY COSTS ASSOCIATED WITH THIS CONTRACTOR'S FAILURE TO FOLLOW THE DESIGN DOCUMENTS. IF MODIFICATIONS TO THE SPECIFIED DESIGN ARE MADE, IT IS THIS CONTRACTOR'S RESPONSIBILITY TO PROVE PERFORMANCE, COMPATIBILITY, AND CONFORMANCE WITH THE ORIGINAL DESIGN AND SPECIFICATIONS. RE-DESIGN BY THIS ENGINEER TO ACCOMMODATE MODIFICATIONS SHALL NOT BE PERFORMED. OTHERWISE, IT WILL BE CONSIDERED ADDITIONAL WORK FOR WHICH COMPENSATION WILL BE REQUIRED. SITE VISITS, INSPECTIONS, CALCULATIONS, COORDINATION, ETC. PERFORMED BY THIS ENGINEER TO INVESTIGATE PROBLEMS ASSOCIATED WITH DESIGN DEVIATIONS WILL ALSO BE CONSIDERED ADDITIONAL WORK FOR WHICH COMPENSATION WILL BE REQUIRED.
 - ANY ERRORS OR OMISSIONS ON THESE DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR REVIEW AND CORRECTION.
 - THE CONSTRUCTION DOCUMENTS ARE COMPRISED OF BOTH DRAWINGS AND SPECIFICATIONS (PROJECT MANUAL). THE GENERAL CONTRACTOR SHALL NOT BREAK OUT SECTIONS TO SUB-CONTRACTORS OR VENDORS.
 - THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK OF ALL TRADES TO INSURE A USABLE & FUNCTIONAL END PRODUCT. ANY CONFLICTS BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE CLARIFIED BY THE ARCHITECT/ENGINEER. IF NO CLARIFICATION IS ISSUED THE BIDDER SHALL BID THE MOST STRINGENT PRODUCT OR APPLICATION.
 - IF DISCREPANCIES ARE ENCOUNTERED BETWEEN THE DRAWINGS, DIAGRAMS, DESCRIPTIONS, NOTES, SYMBOLS, AND/OR SPECIFICATIONS, THE MOST STRINGENT PRODUCT OR APPLICATION APPLIES IN ALL CASES. IF A COMPONENT, SYSTEM, EQUIPMENT, POINT, PROGRAM, ETC. IS LISTED IN ONE DOCUMENT BUT NOT ANOTHER, OR IF IT IS NECESSARY FOR THE OPERATION, IT SHALL BE PROVIDED AND INSTALLED.
 - THIS ENGINEER SHALL NOT BE HELD LIABLE FOR COSTS ASSOCIATED WITH ERRORS AND/OR OMISSIONS ON THESE DOCUMENTS IN EXCESS OF THE COST AND/OR TIME FOR THIS ENGINEER TO CORRECT THE DOCUMENTS. IN ANY CASE, THE LIMIT OF LIABILITY FOR THIS ENGINEER SHALL BE NO MORE THAN THE COST OF THIS ENGINEER'S INDIVIDUAL FEE, REGARDLESS OF THE TOTAL DESIGN FEE CHARGED FOR THE SET OF CONSTRUCTION DOCUMENTS.
 - TO THE FULLEST EXTENT PERMITTED BY LAW, THE TOTAL LIABILITY IN THE AGGREGATE, OF THIS ENGINEER AND THIS ENGINEER'S OFFICERS, DIRECTORS, EMPLOYEES, AGENTS, AND INDEPENDENT PROFESSIONAL ASSOCIATES, AND ANY OF THEM, TO OWNER AND ANY ONE CLAIMING BY, THROUGH OR UNDER OWNER, FOR ANY AND ALL INJURIES, CLAIMS, LOSSES, EXPENSES, OR DAMAGES WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATED TO THIS ENGINEER'S SERVICES, THE PRODUCT OR THESE DOCUMENTS, FROM ANY CAUSE OR CAUSES WHATSOEVER, INCLUDING BUT NOT LIMITED TO THE NEGLIGENCE, ERRORS, OMISSIONS, STRICT LIABILITY, BREACH OF CONTRACT, MISREPRESENTATION, OR BREACH OF WARRANTY OF THIS ENGINEER, OR THIS ENGINEER'S OFFICERS, DIRECTORS, EMPLOYEES, AGENTS OR INDEPENDENT PROFESSIONAL ASSOCIATES, OR ANY OF THEM, SHALL NOT EXCEED THE TOTAL COMPENSATION RECEIVED BY THIS ENGINEER FOR SERVICES PROVIDED.
 - THE USE OF THESE DOCUMENTS FOR CONSTRUCTION SIGNIFIES THIS OWNER, TENANT, AND CONTRACTOR'S AGREEMENT WITH THE ABOVE REQUIREMENTS REGARDLESS OF ANY OTHER PRIOR, CURRENT, OR FUTURE AGREEMENT AND/OR CONTRACT.
 - ALL EQUIPMENT, PRODUCTS, MATERIALS, COMPONENTS, ACCESSORIES, ETC. SHALL BE MANUFACTURED IN THE USA.
- B. CODES, FEES, PERMITS, ETC.:** THE PLUMBING CONTRACTOR SHALL BE PROPERLY LICENSED AND SHALL SECURE ALL PERMITS AND PAY ALL FEES AS REQUIRED FOR THE COMPLETE PLUMBING INSTALLATION, INCLUDING SANITARY SEWER AND POTABLE WATER TIE-INS TO THE SERVING UTILITIES. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE AS AMENDED BY STATE AND COUNTY AUTHORITIES.
- C. SCOPE OF WORK:** THE WORK CONSISTS OF MATERIALS AND LABOR FOR A COMPLETE, OPERABLE PLUMBING SYSTEM INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
- SANITARY SEWER SYSTEM, SOIL AND WASTE DRAIN AND VENT PIPING AND FIXTURE CONNECTIONS.
 - DOMESTIC COLD AND HOT WATER SYSTEM TO ALL SINKS & LAVATORIES. PIPING SHALL BE DISINFECTED I.A.W. THE PLUMBING CODE.
 - ALL PLUMBING FIXTURES AS REQUIRED.
 - WATER AND DRAIN PIPING SHALL BE PRESSURE TESTED I.A.W. THE PLUMBING CODE.
- D. MATERIALS**
- FIXTURES AND EQUIPMENT ALL FIXTURES AND EQUIPMENT SHALL BE STANDARD, FIRST QUALITY COMPLETE WITH ALL TRIM, TRAPS, ETC., AS REQUIRED.
 - PIPING
 - DRAIN, WASTE, VENT, AND SANITARY SEWER PIPING
 - BELOW GRADE
 - POLYVINYL CHLORIDE (PVC)
 - BELOW GRADE DRAIN, WASTE, VENT, AND SANITARY SEWER PIPING SHALL BE DWV SCHEDULE 40 PVC WITH PVC-DWV FITTINGS AND SOLVENT CEMENT JOINTS.
 - ABOVE GRADE
 - POLYVINYL CHLORIDE (PVC)

PLUMBING ABBREVIATIONS

A		M	
A	AMPS	MAX	MAXIMUM
AFF	ABOVE FINISHED FLOOR	MBH	ONE THOUSAND BRITISH THERMAL UNITS PER HOUR
ASSE	AMERICAN SOCIETY OF SAFETY ENGINEERS	MC	MECHANICAL CONTRACTOR
C		MCA	MINIMUM CIRCUIT AMPACITY
CFH	CUBIC FEET PER HOUR	MDPE	MEDIUM DENSITY POLYETHYLENE
CO	CLEAN OUT	MIN	MINIMUM
CW	COLD WATER	MOCP	MAXIMUM OVERCURRENT PROTECTION
D		N	
D	DRAIN	NIC	NOT IN CONTRACT
DCW	DOMESTIC COLD WATER	NRS	NON RISING STEM
DHW	DOMESTIC HOT WATER	NTS	NOT TO SCALE
DR	DIMENSION RATIO	P	
EC	ELECTRICAL CONTRACTOR	PC	PLUMBING CONTRACTOR
E		PH	PHASE
F	FAHRENHEIT	PRV	PRESSURE REDUCING VALVE
FCO	FLOOR CLEAN OUT	PSIA	POUNDS PER SQUARE INCH ATMOSPHERE
FT	FOOT/FEET	PSIG	POUNDS PER SQUARE INCH GAUGE
G		PSI	POUNDS PER SQUARE INCH
G	GAS	R	
GAL	GALLONS	RPM	REVOLUTIONS PER MINUTE
GC	GENERAL CONTRACTOR	RPZ	REDUCED PRESSURE ZONE
GCO	GRADE CLEAN OUT	S	
H		S	SANITARY
HB	HOSE BIB	SQFT	SQUARE FEET
HDPE	HIGH DENSITY POLYETHYLENE	T	
HP	HORSEPOWER	TW	TEMPERED WATER
HW	HOT WATER	T&P	TEMPERATURE AND PRESSURE
HWR	HOT WATER RETURN	TYP	TYPICAL
HWS	HOT WATER SUPPLY	U	
K		UV	ULTRA VIOLET
KW	KILOWATT	V	
L		V	VOLTAGE OR VENT
LBS	POUNDS	VTR	VENT TO ROOF
LNG	LIQUEFIED NATURAL GAS	W	
LP	LIQUEFIED PETROLEUM (PROPANE OR BUTANE)	W	WATT
LPG	LIQUEFIED PETROLEUM GAS (PROPANE OR BUTANE)	WCO	WALL CLEAN OUT
LW	LAB WASTE	WH	WATER HEATER

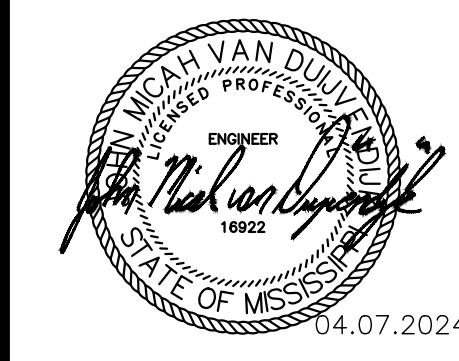
PLUMBING SYMBOLS

----	COLD WATER
----	EXISTING COLD WATER
----	HOT WATER
----	EXISTING HOT WATER
----	HOT WATER RETURN
----	EXISTING HOT WATER RETURN
----	SANITARY
----	EXISTING SANITARY
----	VENT
----	EXISTING VENT
----	GAS
----	EXISTING GAS
----	FIRE PROTECTION
----	EXISTING FIRE PROTECTION
----	EXISTING TO BE REMOVED
⊥	LEVER BALL VALVE
⊥	HOSE BIB
⊥	CONNECT TO EXISTING
⊥	CAP AND SEAL



"Designed to Build"
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

David J. Machado, PE
Brad P. Patano, PE
Gerod W. Kilpatrick, PE
Bradford A. Jones, AIA



SARACENIA FIRE STATION
JACKSON COUNTY
SARACENIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
PROJECT NO: 0004.23.001
DRAWN BY: TJA
CHECKED BY: JMV

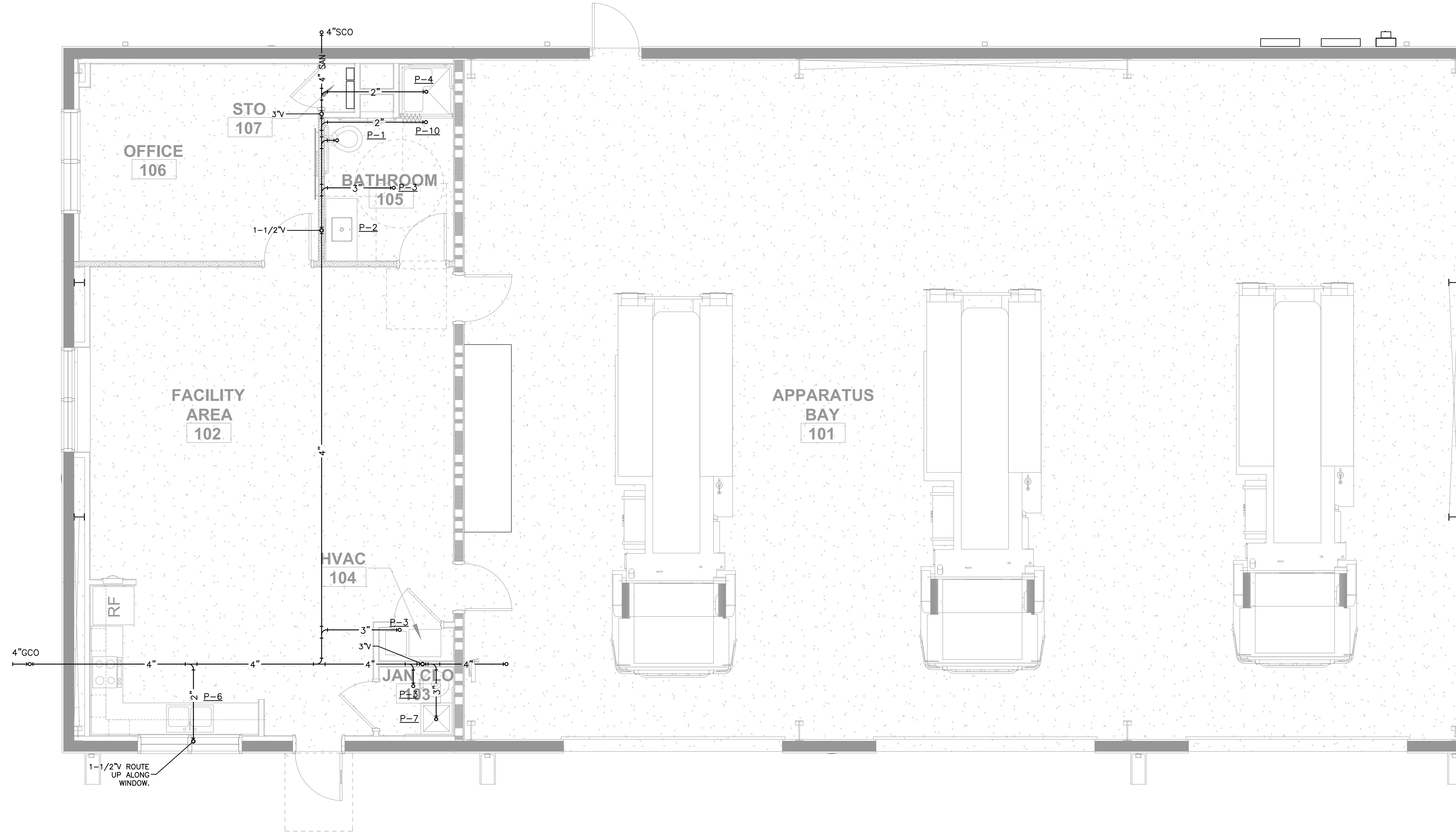
**PLUMBING ABBREVIATIONS,
SYMBOLS, & NOTES**

NO.	REVISION / SUBMITTAL	DATE	ISSUED FOR CONSTRUCTION
REV 0		04.07.24	

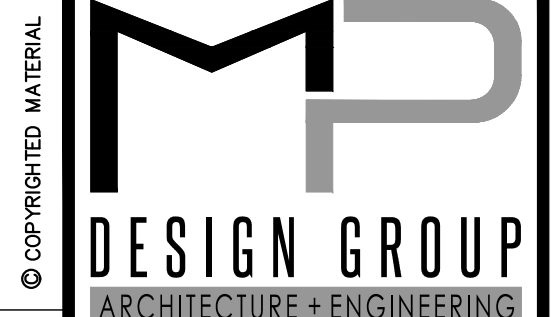
P001
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL SEALED AND SIGNED DRAWING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPLICABLE AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / ANY OTHER SHALL VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPLICABLE AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SEALED, DATED AND SEALED ENGINEERED PLAN SET SHALL GOVERN ANY OTHER PLANS, DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, P.L.L.C. AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

PRINTED: 3/20/2024 11:04 AM BY: Tyler Abell LAST SAVED: 2/22/2024 1:58 PM BY: Tabell
 m:\0004_jackson county\0004.23.001_saracenia fire station\mechanical\01-production drawings\saracenia fire station_mechanical.dwg

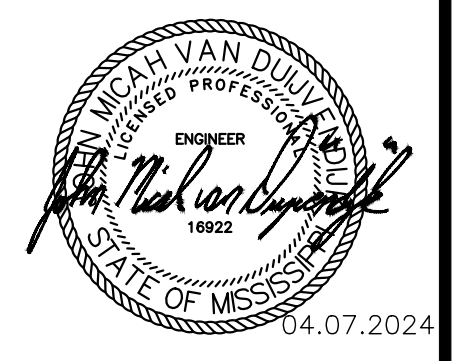


1 SANITARY SEWER PLAN
 SCALE: 1/4"=1'-0"



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENIA FIRE STATION
 JACKSON COUNTY
 SARACENIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: TJA
 CHECKED BY: JMV

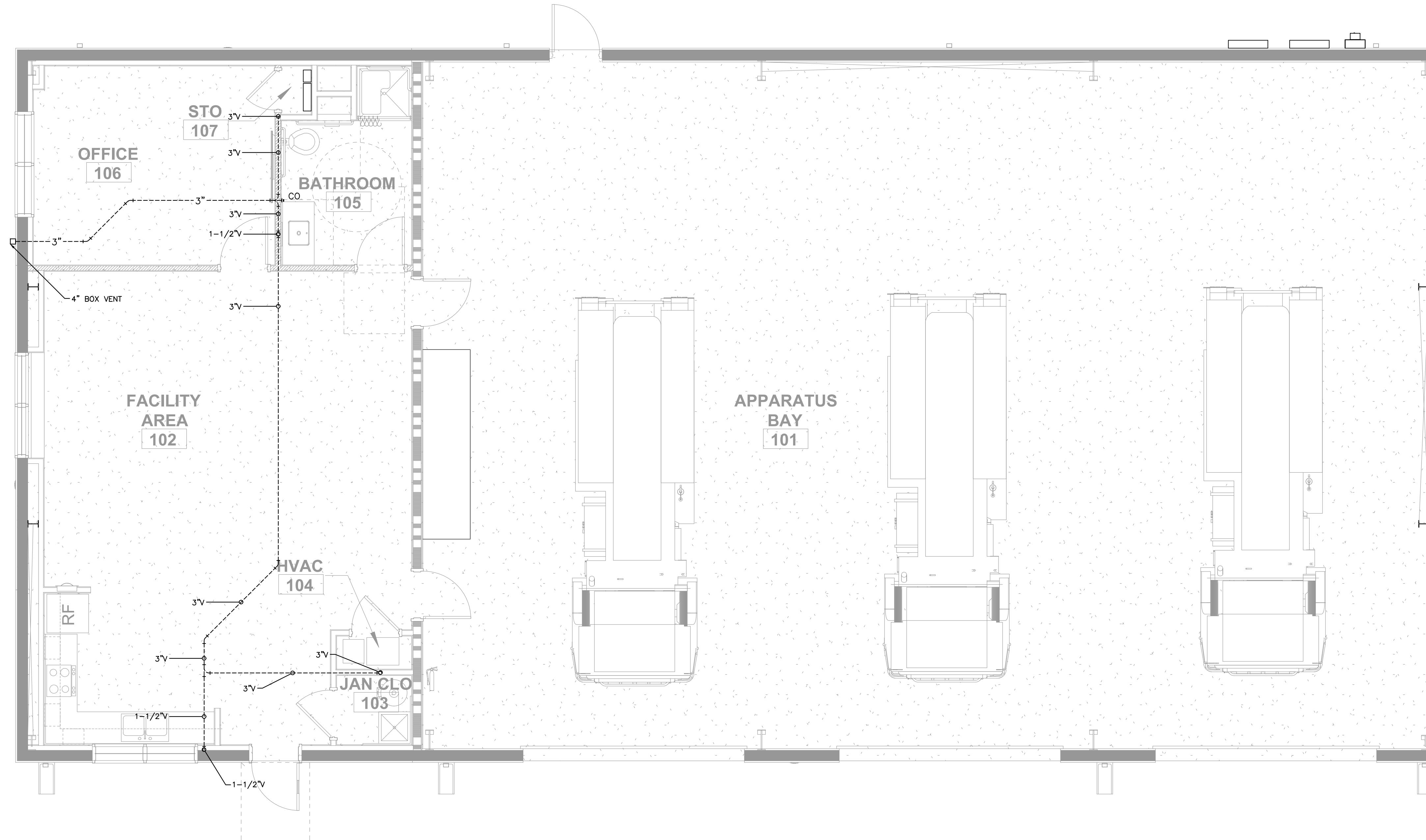
SANITARY SEWER PLAN

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

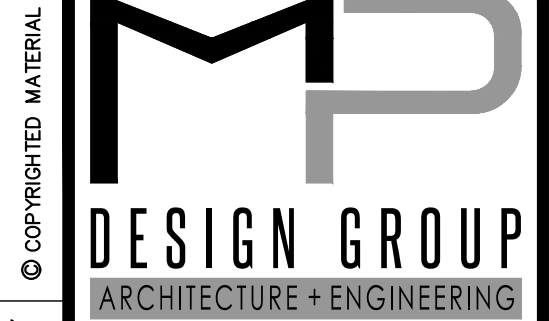
P101
 VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL SEALED AND SIGNED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AISC / SPS SHOWN SHALL CONSULT ENGINEER'S PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SEALED, DATED AND SEALED ENGINEERED PLAN SET SHALL PREVAIL OVER ANY OTHER PLANS, REVISED DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

PRINTED: 3/20/2024 11:04 AM BY: Tyler Abell LAST SAVED: 2/22/2024 1:58 PM BY: Tabell
 m:\0004_jackson county\0004.23.001_saracenia fire station\mechanical\01-production drawings\saracenia fire station_mechanical.dwg



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



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA



THE ORIGINAL SEALED AND SIGNED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / ANS / OR OWNER SHALL CONSULT ENGINEER'S PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL PREVAIL OVER ANY OTHER PLANS, REVISED PLANS, REVISED DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

SARACENIA FIRE STATION
 JACKSON COUNTY
 SARACENIA RD, MOSS POINT, MS 39562

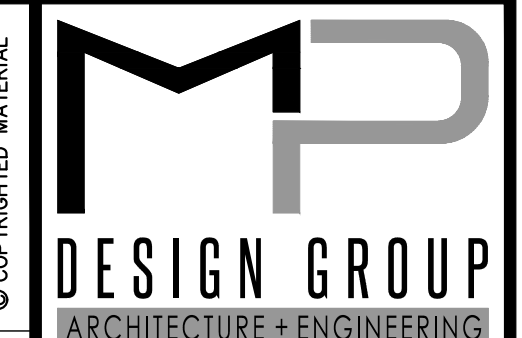
SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: TJA
 CHECKED BY: JMV

SANITARY VENT PLAN

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

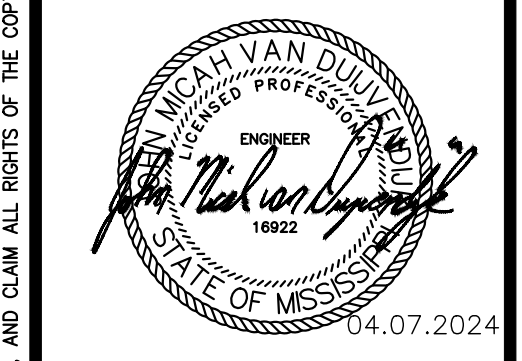
P102
 VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PRINTED: 3/20/2024 11:04 AM BY: Tyler Abell LAST SAVED: 2/22/2024 1:58 PM BY: Tabell
 m:\0004_jackson county\0004.23.001_saracenia fire station\mechanical\02-production drawings\saracenia fire station mechanical.dwg



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENIA FIRE STATION
 JACKSON COUNTY
 SARACENIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: TJA
 CHECKED BY: JMV

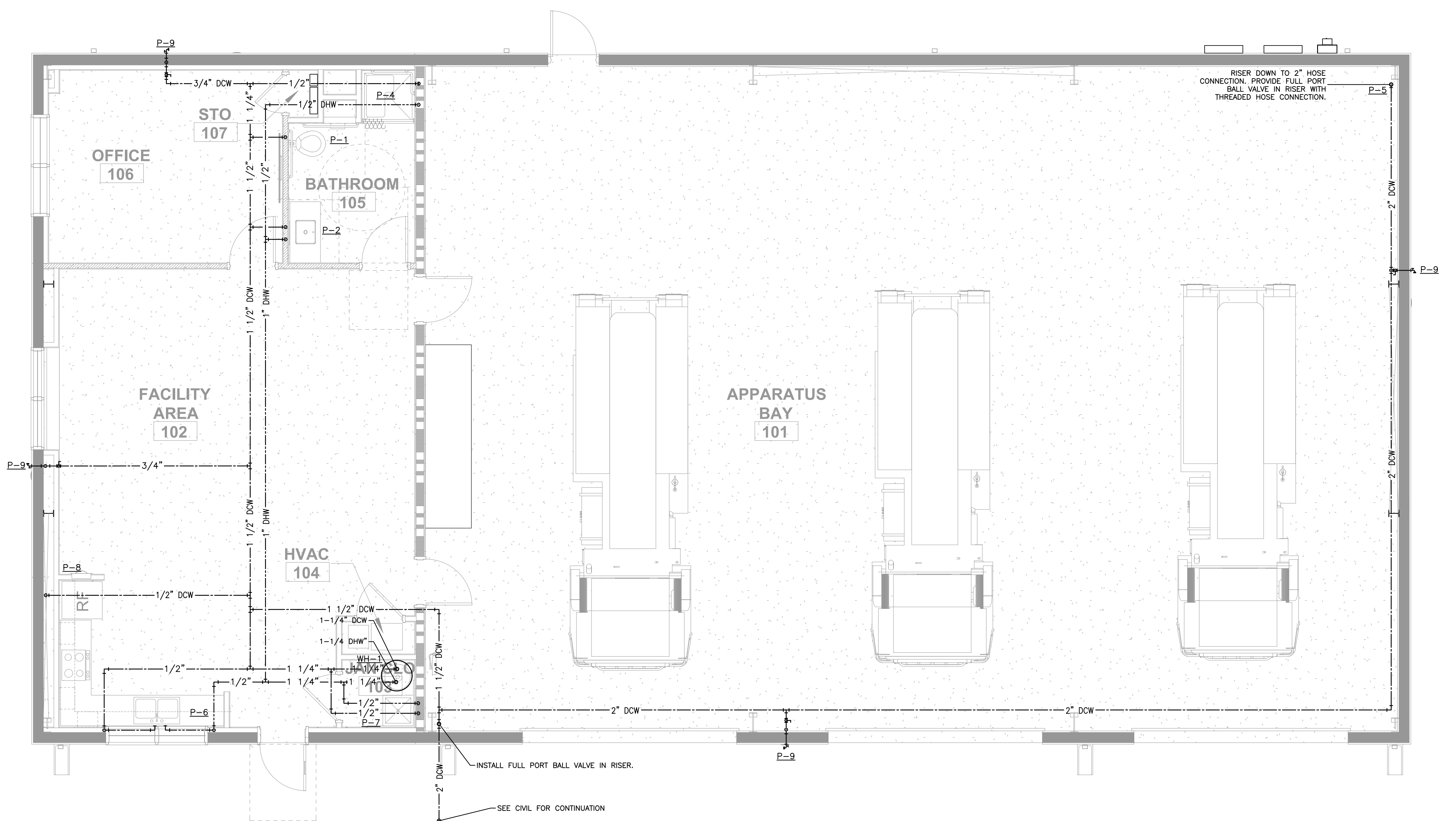
DOMESTIC WATER PLAN

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

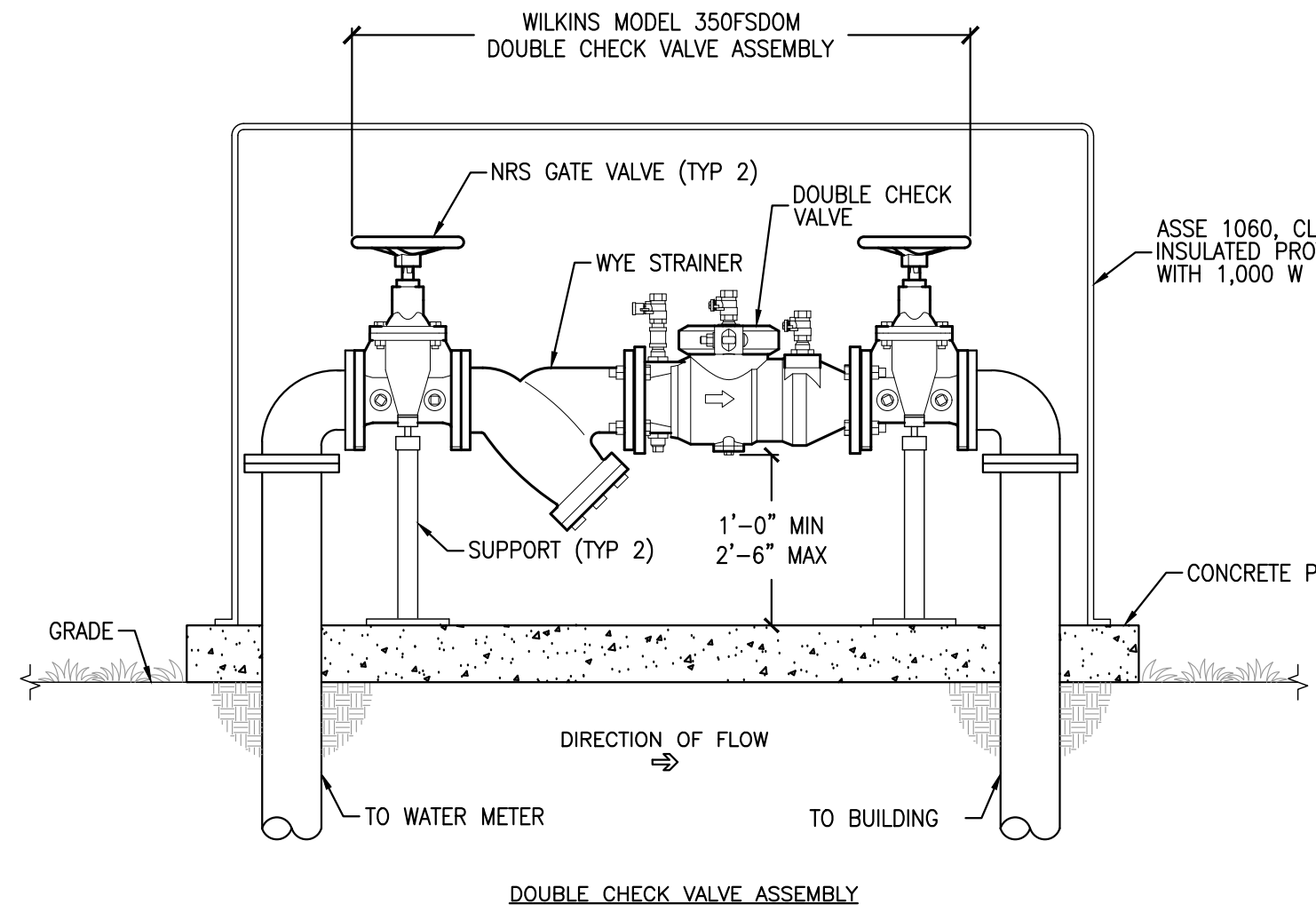
P103

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

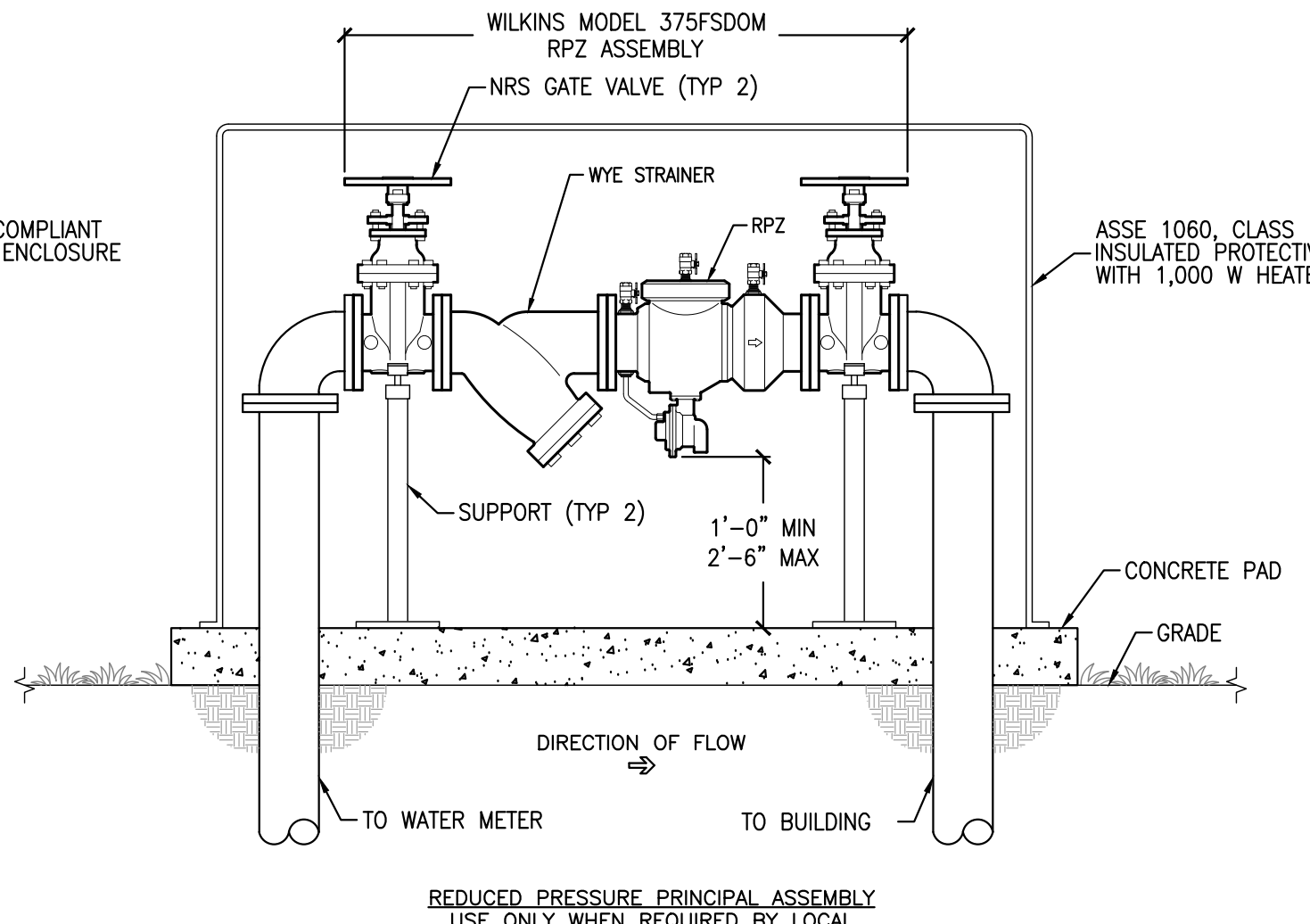
THE ORIGINAL SEALED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / ANY OTHER SHALL CONSULT ENGINEERING PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SEALED, DATED AND SEALED ENGINEERING PLAN SET SHALL PREVAIL OVER ANY OTHER PLANS, REVISED DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL



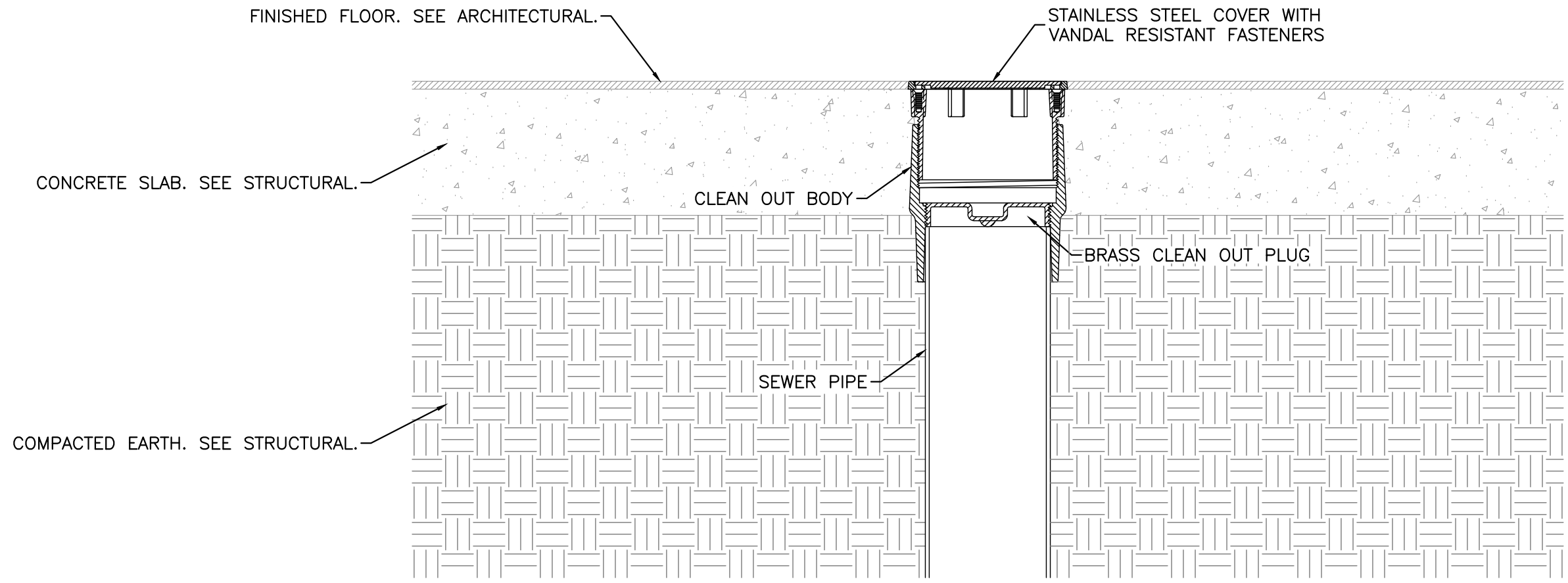
1 DOMESTIC WATER PLAN
 SCALE: 1/4"=1'-0"



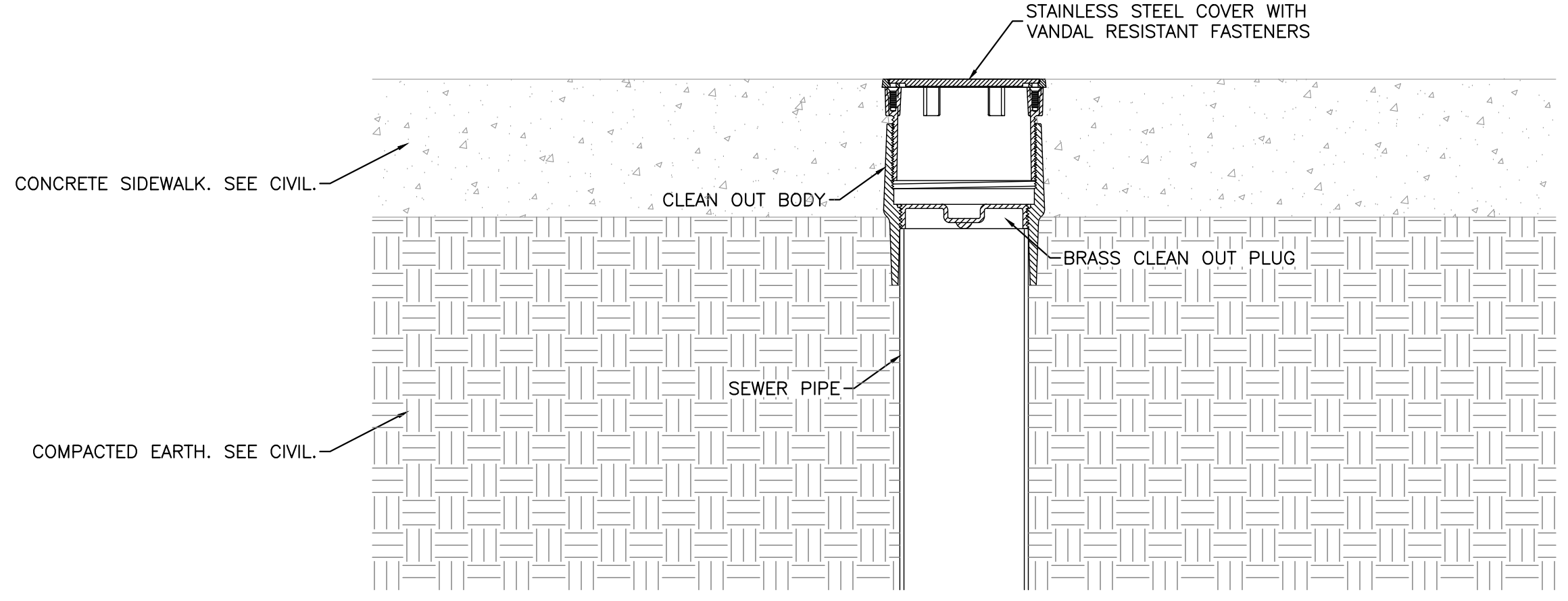
1 DOMESTIC BACKFLOW PREVENTER DETAILS (2-1/2" TO 10")
SCALE: NTS



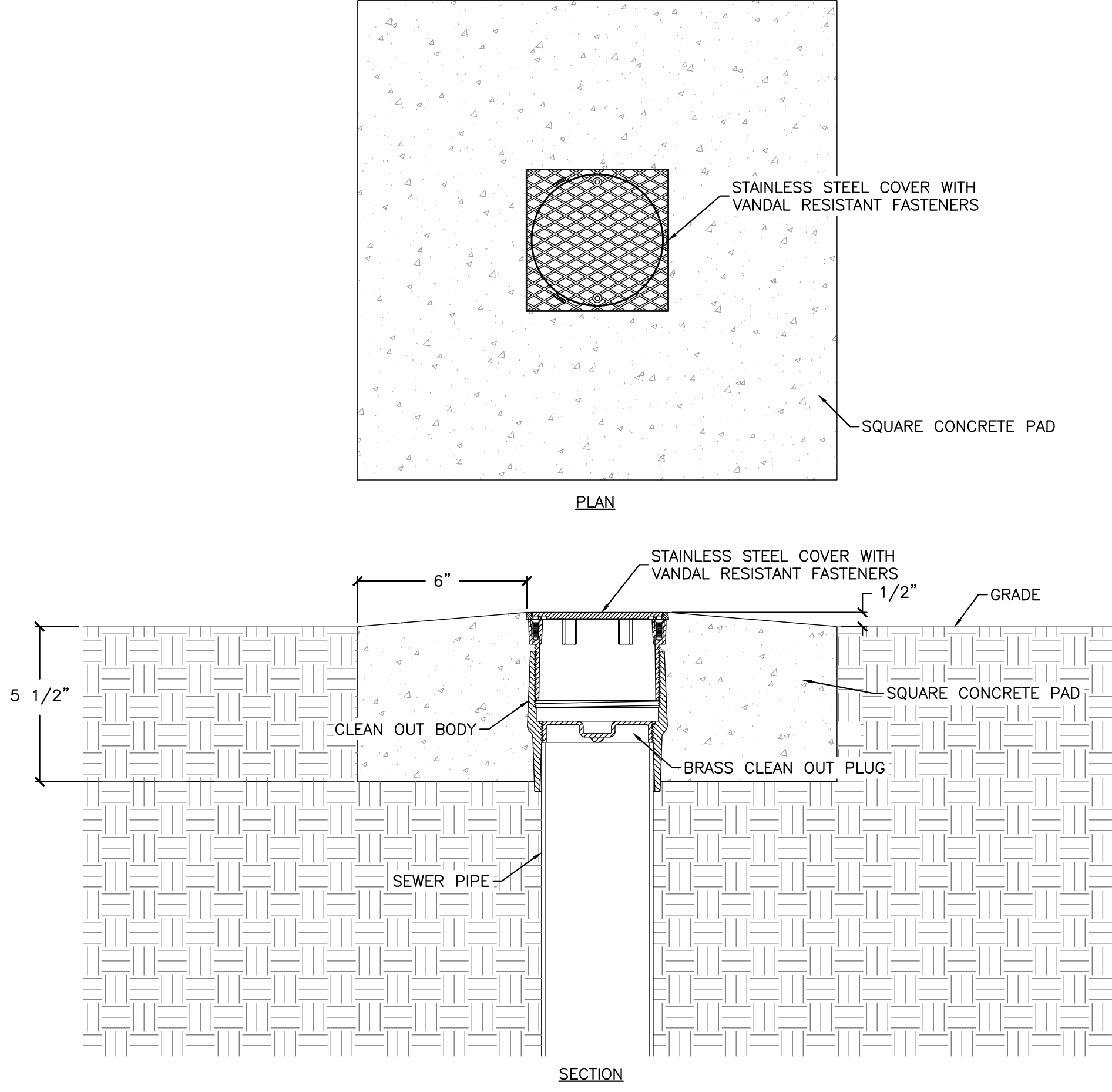
2 WATER HEATING PIPING DETAIL (3/4" TO 2" HW SERVICE)
SCALE: NTS



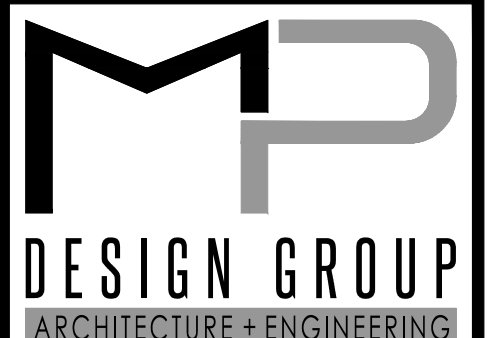
3 FLOOR CLEANOUT DETAIL
SCALE: NTS



4 SIDEWALK CLEANOUT DETAIL
SCALE: NTS

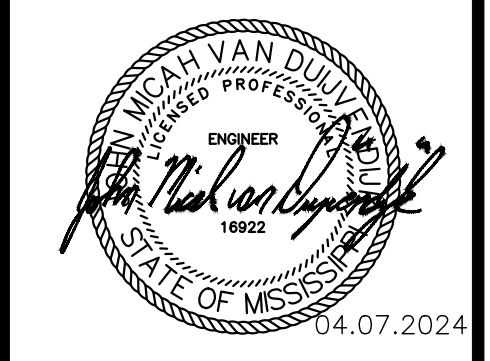


5 GRADE CLEANOUT DETAIL
SCALE: NTS



"Designed to Build"
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

David J. Machado, PE
Brad P. Patano, PE
Gerrod W. Kilpatrick, PE
Bradford A. Jones, AIA



SARACENIA FIRE STATION
JACKSON COUNTY
SARACENIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
PROJECT NO: 0004.23.001
DRAWN BY: TJA
CHECKED BY: JMV

PLUMBING DETAILS

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

P501

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

PRINTED: 3/20/2024 11:04 AM BY: Tyler Abell LAST SAVED: 2/22/2024 1:58 PM BY: Tabell m:\0004_jackson county\0004.23.001_saracenia fire station\05-mechanical\02-production drawings\saracenia fire station mechanical.dwg

THE ORIGINAL SEALED AND SIGNED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / ANS / OR OWNER SHALL VERIFY ENGINEERING PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLAN SET SHALL OVERRIDE ANY OTHER PLANS, THE DRAWING DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO PATANO, P.L.L.C. AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

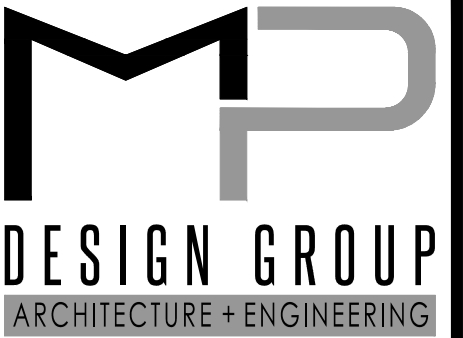
PRINTED: 3/20/2024 11:04 AM BY: Tyler Abell LAST SAVED: 2/22/2024 1:58 PM BY: Tabell
 m:\0004_jackson county\0004.23.001_saracennia fire station\05-mechanical\02-production drawings\saracennia fire station mechanical.dwg

PLUMBING FIXTURE SCHEDULE									
TAG	DESCRIPTION	MAKE	MODEL	CONNECTIONS					NOTES
				CW	HW	TW	G	D	
P-1	ADA FLOOR MOUNT WATER CLOSET-FV	AMERICAN STANDARD	3043.001	1"	N/A	N/A	N/A	3"	1,2,3,4
P-2	ADA DROP-IN COUNTER TOP LAVATORY	AMERICAN STANDARD	0475.047	1/2"	1/2"	3/8"	N/A	1-1/4"	1,5,6,13
P-3	FLOOR DRAIN	ZURN	ZN415B-NL	N/A	N/A	N/A	N/A	3"	10,11
P-4	ADA SHOWER UNIT (SMALL)	PRAXIS	G 3682 IBS .625	1/2"	1/2"	1/2"	N/A	2"	19,21,25,26,28,29,30
P-5	FIRE HOSE GLOBE VALVE	DIXON	SGV200	2"	N/A	N/A	N/A	N/A	9
P-6	ADA 2 COMPARTMENT SINK	DAYTON	D23322	1/2"	1/2"	N/A	N/A	(2) 1-1/2"	1,22,23
P-7	MOP SINK	MUSTEE	63M	1/2"	1/2"	N/A	N/A	3"	12,15,16,17,18
P-8	ICE MAKER SUPPLY	GUY GRAY	MIB1AB	1/2"	N/A	N/A	N/A	N/A	7,27
P-9	FREEZE RESISTANT ANTI-SIPHON HOSE BIB	ZURN	Z1345	3/4"	N/A	N/A	N/A	N/A	20
P-10	STAINLESS STEEL LINEAR SHOWER DRAIN	ZURN	ZS880-40	N/A	N/A	N/A	N/A	2"	14
4" SCO	4" SIDEWALK CLEANOUT	ZURN	ZN1400-NL	N/A	N/A	N/A	N/A	4"	8,10

- 1 MOUNT WITH ADA CLEARANCES
- 3 WITH CHURCH 295SSCT HEAVY DUTY TOILET SEAT WITH SELF-SUSTAINING CHECK HINGES
- 5 WITH 17 GA. BRASS P-TRAP, TAILPIECE, GRID STRAINER, BALL STOPS, AND FLEX SUPPLIES
- 7 WITH POWDER COATED STEEL BOX AND FACEPLATE
- 9 INSTALL TIGHT TO COLUMN
- 11 WITH ASSE 1072 COMPLIANT TRAP SEAL PROTECTION DEVICE
- 13 WITH ZURN Z82200-XL FAUCET
- 15 WITH 2 ADJACENT SIDE FACTORY WALL GUARDS. COORDINATE SIDES WITH INSTALLATION AND WALL LOCATIONS.
- 17 WITH 3/8" HOSE AND WALL HANGER
- 19 WITH ZURN Z7000-HW ADA HAND HELD SHOWER ASSEMBLY WITH SLIDE BAR, VACUUM BREAKER, AND 60" HOSE
- 21 RECESS FLOOR AS NECESSARY FOR PROPER FLUSH MOUNT ADA COMPLIANT INSTALLATION. COORDINATE WITH GC.
- 23 WITH 4 FAUCET HOLES
- 25 WITH WHITE SOLID SURFACE COLOR
- 27 WITH FACTORY VALVE
- 29 COORDINATE RIGHT OR LEFT HAND CONSTRUCTION WITH ARCHITECTURAL AND GC

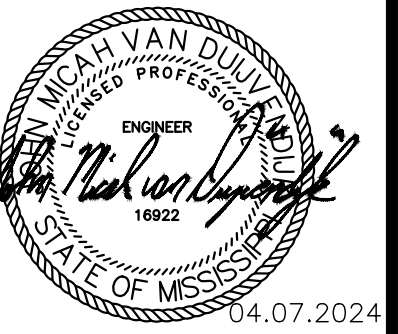
- 2 FLUSH VALVE SHALL BE POSITIONED (HANDLE LEFT OR RIGHT) FOR ADA COMPLIANCE IN RELATION TO PARTITIONS
- 4 WITH ZURN Z6000-WS1 MANUAL FLUSH VALVE
- 6 WITH ASSE 1070 COMPLIANT MIXING VALVE
- 8 WITH BRONZE PLUG
- 10 WITH POLISHED NICKEL BRONZE TOP
- 12 WITH T&S B-0665-BSTR FAUCET
- 14 WITH STAINLESS STEEL FINISH
- 16 WITH RUBBER DRAIN GASKET FOR 3" WASTE PIPE
- 18 WITH MOP HANGER
- 20 8" STEM LENGTH. COORDINATE WITH WALL CONSTRUCTION
- 22 WITH T&S B-1172 FAUCET AND SIDESPRAY
- 24 MOUNT WITH STANDARD CLEARANCES
- 26 WITH ZURN Z7301-SS-MT MIXING VALVE
- 28 MOLDED REINFORCED FIBERGLASS CONSTRUCTION
- 30 WITH ADA GRAB BARS, SEAT, AND HANDHELD SPRAYER

WATER HEATER SCHEDULE							
TAG	MAKE	MODEL	GAL	100°F RECOVERY	KW	V/PH	NOTES
WH-1	AO SMITH	DEN-80	80	41	10	208/3	1,2,3,4,5
1 WITH IMMERSION THERMOSTAT							
2 ANODE RODS							
3 SOLID STATE LOW WATER CUT-OFF							
4 TEMPERATURE AND PRESSURE RELIEF VALVE							
5 STAINLESS STEEL, SCREW-IN TYPE THAT RESIST BURN OUT AND CORROSION							



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION
 JACKSON COUNTY
 SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: TJA
 CHECKED BY: JMV

PLUMBING SCHEDULES

NO.	REVISION / SUBMITTAL	DATE
REV 0	ISSUED FOR CONSTRUCTION	04.07.24

P601
 VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL SEALED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEER PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SEALED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS, THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

HVAC NOTES

A. GENERAL

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

B. DUCTWORK

- 1. ALL DUCT SIZES ON THE PLANS ARE CLEAR, INSIDE DIMENSIONS.
2. TURNING VANES SHALL BE INSTALLED IN ALL RECTANGULAR/SQUARE ELBOWS AND TEES 45° OR LARGER.
3. ALL INTERIOR AND EXTERIOR EXPOSED DUCTWORK SHALL BE SHEET METAL CONSTRUCTION. CONCEALED DUCTWORK MAY BE SHEET METAL OR FLEXIBLE CONSTRUCTION AS INDICATED.
4. ALL EXHAUST DUCTWORK SHALL BE SHEET METAL CONSTRUCTION. FLEXIBLE DUCTWORK IS NOT ACCEPTABLE.
5. ALL SHEET METAL DUCT CONNECTIONS TO ANY FAN POWERED EQUIPMENT SHALL BE MADE WITH FLEXIBLE DUCT CONNECTORS 3" MIN IN LENGTH.
6. LOW PRESSURE DUCTWORK
a. ALL SUPPLY DUCTWORK, RETURN DUCTWORK, AND EXHAUST DUCTWORK SHALL BE CONSTRUCTED TO 2" WG PRESSURE CLASS STANDARDS AND SHALL CONFORM TO THE LATEST EDITIONS OF THE SMACNA DUCT CONSTRUCTION STANDARDS.
b. ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTION UNLESS OTHERWISE NOTED IN THIS SECTION. SHEET METAL GAUGE SHALL BE AS PER SMACNA DUCT CONSTRUCTION STANDARDS (28 GAUGE OR LESS DEPENDING ON SIZE AND SHAPE). 30 GAUGE OR HIGHER SHEET METAL DUCT IS NOT ACCEPTABLE.
c. FLEXIBLE DUCTWORK
c.1. WHERE CONCEALED, FLEXIBLE DUCTWORK MAY BE USED IN LIEU OF SHEET METAL CONSTRUCTION FOR THE FINAL CONNECTION TO SUPPLY AND RETURN CEILING GRILLES.

- c.2. FLEXIBLE DUCT CONNECTIONS SHALL BE NO GREATER THAN 6 FT IN LENGTH.
c.3. FLEXIBLE DUCT SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE IN ACCORDANCE WITH THE PLANS AND SHALL HAVE NO KINKS OR DRASTIC BENDS.
d. ALL ROUND SUPPLY BRANCH CONNECTIONS SHALL BE MADE AT 45°, WITH A BOOT TAP AND SQUARE (RECTANGULAR) TO ROUND TRANSITION, OR WITH A CONICAL CONNECTION. ALL SQUARE (RECTANGULAR) SUPPLY BRANCH CONNECTIONS SHALL BE MADE WITH BOOT TAPS. 90° STRAIGHT TAPS AND SQUARE (RECTANGULAR) TO ROUND TAPS ARE NOT ACCEPTABLE.
e. ROUND MAIN DUCTS (601-2,000 FPM)
e.1. ALL ROUND ELBOWS SHALL BE FULL RADIUS TYPE (THE CENTER LINE RADIUS OF DUCT SHALL BE 1.5 TIMES THE DIAMETER OF THE DUCT). 90° ELBOWS SHALL BE 5 GORE MINIMUM. 60° ELBOWS SHALL BE 4 GORE MINIMUM. 45° ELBOWS SHALL BE 3 GORE MINIMUM. 30° AND SMALLER ANGLE ELBOWS MAY BE 2 GORE. SMOOTH DIE STAMPED/PRESSED ELBOWS ARE ACCEPTABLE IN CONCEALED AREAS AND/OR WHEN THE DUCT IS EXTERNALLY INSULATED. PLEATED AND ADJUSTABLE ELBOWS ARE NOT ACCEPTABLE.
f. ROUND BRANCH DUCTS (0-600 FPM)
f.1. ROUND ELBOWS MAY BE SHORT RADIUS TYPE (THE CENTER LINE RADIUS OF DUCT SHALL BE 1 TIME THE DIAMETER OF THE DUCT). 90° ELBOWS SHALL BE 4 GORE MINIMUM. 60° ELBOWS SHALL BE 3 GORE MINIMUM. 45° AND SMALLER ANGLE ELBOWS MAY BE 2 GORE. SMOOTH DIE STAMPED/PRESSED ELBOWS ARE ACCEPTABLE IN CONCEALED AREAS AND/OR WHEN THE DUCT IS EXTERNALLY INSULATED. PLEATED AND ADJUSTABLE ELBOWS ARE NOT ACCEPTABLE.
g. CONCEALED AND/OR EXTERNALLY INSULATED ROUND SHEET METAL DUCT MAY BE SPIRAL OR LONGITUDINAL SEAM. BUTT WELD, LAP WELD, OR GROOVED SEAM PIPE LOCK/FLAT LOCK IS ACCEPTABLE FOR LONGITUDINAL SEAMS. SNAPLOCK SEAMS SHALL ONLY BE USED FOR POSITIVE PRESSURE DUCT. EXPOSED ROUND SHEET METAL DUCT SHALL BE SPIRAL SEAM. EXPOSED ROUND SPIRAL SHEET METAL DUCT BRANCHES SHALL BE CONICAL TEES OR WYE FITTINGS AS DESIGNED. TAKEOFFS ARE NOT ACCEPTABLE.
h. ALL EXTERNALLY INSULATED SHEET METAL DUCTWORK JOINTS SHALL BE SEALED AIRTIGHT WITH MASTIC AND TAPE OVER WITH DUCT TAPE. ALL INTERNALLY INSULATED SHEET METAL DUCTWORK JOINTS SHALL BE SEALED AIRTIGHT WITH MASTIC AND THE EXTERIOR SURFACE WIPED CLEAN TO PROVIDE A FINISHED APPEARANCE.
i. ALL SQUARE AND RECTANGULAR VOLUME DAMPERS SHALL BE OPPOSED BLADE TYPE.
j. GRAVITY BACKDRAFT DAMPERS SHALL START TO OPEN AT NO MORE THAN 0.01" WG.
k. VOLUME DAMPERS SHALL BE INSTALLED IN ALL BRANCH DUCTWORK (DUCTWORK LEADING DIRECTLY TO AN OUTLET) WHETHER THEY ARE SHOWN IN PLAN OR NOT AND REGARDLESS OF WHETHER THE OUTLET GRILLE OR DIFFUSER IS SPECIFIED WITH A DAMPER. BRANCH VOLUME DAMPERS SHALL BE INSTALL A MINIMUM OF 3 DUCT DIAMETERS (OR 3 TIMES THE LARGEST DUCT DIMENSION) DOWNSTREAM OF THE NEAREST FITTING WHERE SPACE AND ACCESS ALLOWS.

C. INSULATION

- 1. ALL SHEET METAL AND FLEXIBLE SUPPLY, RETURN, AND OUTDOOR AIR DUCTWORK SHALL BE INSULATED.
2. ALL INTERIOR AND EXTERIOR EXPOSED SUPPLY, RETURN, AND OUTDOOR AIR DUCTWORK SHALL BE SHEET METAL CONSTRUCTION AND SHALL BE INTERNALLY INSULATED.
3. ALL CONCEALED SHEET METAL AND FLEXIBLE SUPPLY, RETURN, AND OUTDOOR AIR DUCTWORK SHALL BE EXTERNALLY INSULATED, UNLESS INTERNALLY LINED.
4. INTERNAL DUCT INSULATION
a. WHERE INDICATED ON THE PLANS, SHEET METAL DUCTWORK SHALL BE INTERNALLY LINED WITH INSULATION.
b. WHEN INSTALLED IN FULLY CONDITIONED SPACES AND RETURN AIR PLENUMS WITHIN THE INSULATED AND/OR CONDITIONED ENVELOPE, INTERNAL INSULATION SHALL BE 1" THICK UNLESS OTHERWISE SPECIFIED.
c. WHEN INSTALLED IN UNCONDITIONED SPACES OUTSIDE OF THE INSULATED AND/OR CONDITIONED ENVELOPE, INTERNAL INSULATION SHALL BE 1-1/2" THICK UNLESS OTHERWISE SPECIFIED.
d. WHEN INSTALLED EXTERIOR TO THE BUILDING ENVELOPE, INTERNAL INSULATION SHALL BE 2" THICK UNLESS OTHERWISE SPECIFIED.
e. THE FIRST 10'-0" OF RECTANGULAR/SQUARE SHEET METAL DUCT UPSTREAM OR DOWNSTREAM OF ANY FAN SHALL BE INTERNALLY INSULATED WHETHER OR NOT INDICATED IN PLAN.
5. ALL SHEET METAL AND FLEXIBLE SUPPLY, RETURN, AND OUTDOOR AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 2" THICK INSULATION (R=6.0), UNLESS INTERNALLY LINED, INCLUDING SUPPLY AND RETURN GRILLE COLLARS AND PANS. ALL JOINTS SHALL BE SEALED.
6. ALL CONDENSATE PIPING WITHIN THE BUILDING ENVELOPE, INCLUDING PRIMARY AND SECONDARY LINES, SHALL BE INSULATED WITH 1/2" THICK PIPE INSULATION. ALL JOINTS SHALL BE SEALED.
7. REFRIGERANT SUCTION PIPING LESS THAN 1-1/2" SHALL BE INSULATED WITH 1/2" THICK FLEXIBLE CELLULAR INSULATION. PIPING 1-1/2" OR LARGER SHALL BE INSULATED WITH 1" THICK INSULATION. ALL JOINTS SHALL BE SEALED. LIQUID LINES SHALL BE INSULATED WHEN INSTALLED WITHIN THE BUILDING IN UNCONDITIONED SPACES OUTSIDE OF THE INSULATED AND/OR CONDITIONED ENVELOPE.
8. EXPOSED EXTERIOR PIPE INSULATION SHALL BE JACKETED WITH ALUMINUM, GALVANIZED SHEET METAL, STAINLESS STEEL, OR UV RESISTANT PLASTIC AND SEALED WEATHER TIGHT.

D. REFRIGERANT PIPING

- 1. ALL REFRIGERANT PIPING 1-3/8" AND SMALLER SHALL BE TYPE L-ACR OR TYPE K-ACR HARD DRAWN OR SOFT (AS INDICATED) COPPER UL RATED FOR 700 PSI AT 250°F AND CONFORMING TO ASTM STANDARD B280.
2. ALL REFRIGERANT PIPING LARGER THAN 1-3/8" AND 2-5/8" OR LESS SHALL BE TYPE K-ACR HARD DRAWN OR SOFT (AS INDICATED) COPPER UL RATED TO 700 PSI AT 250°F AND CONFORMING TO ASTM STANDARD B280.
3. ALL REFRIGERANT PIPE FITTINGS SHALL BE WROT COPPER UL RATED TO 700 PSI AT 250°F AND SHALL MEET ANSI/ASME STANDARD B16.22 AND NSF 61G.
4. ALL STRAIGHT RUNS OF REFRIGERANT PIPING SHALL BE SLOPED 1/8" PER FOOT MIN IN THE DIRECTION OF FLOW.
5. IF SOFT COPPER TUBING IS USED, IT SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE WITHOUT EXCESSIVE BENDS, KINKS, OR OTHER OBSTRUCTIONS.
E. THERMOSTATS SHALL BE 7-DAY PROGRAMMABLE TYPE WITH SETBACK, AUTOMATIC HEAT/COOL CHANGEOVER, MANUAL OVERRIDE, DIGITAL DISPLAY, AND LOCKOUT CAPABILITIES.

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

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

- 1. EXTERIOR WALL LOUVERS SHALL BE GREENHECK MODEL EVH-660D OR APPROVED EQUAL. PROVIDE WITH CONTINUOUS MOUNTING ANGLES. PROVIDE WITH INTEGRAL FLANGE FOR ALL STUCCO, EIFS, MASONRY, AND OTHER FLAT EXTERIOR SURFACE CONSTRUCTION. PROVIDE WITH EXTENDED SILL, END DAMS, AND DRIP CAP FOR ALL CORRUGATED METAL EXTERIOR WALL PANEL CONSTRUCTION. PROVIDE INSECT SCREENS FOR ALL FOOD SERVICE INSTALLATIONS. PROVIDE BIRD SCREENS FOR ALL OTHER INSTALLATIONS. FASTEN AND SEAL AS PER THE MANUFACTURER'S INSTRUCTIONS. APPROVED EQUAL SHALL HAVE 17% MINIMUM FREE AREA FOR A 12"x12" LOUVER, SHALL MEET THE REQUIREMENTS OF AMCA STANDARD 540, AND SHALL COMPLY WITH AMCA STANDARD 550. PHYSICAL FINISH SAMPLES SHALL BE SUBMITTED TO THE ARCHITECT FOR SELECTION.
2. ALL BIRD SCREENS SHALL BE WIRE CONSTRUCTION WITH NO LESS THAN 75% FREE AREA. EXPANDED METAL BIRD SCREENS ARE NOT ACCEPTABLE.

I. REFRIGERANT SYSTEM TESTS

- 1. PRESSURE TEST
a. INTERCONNECTING PIPING
a.1. EVACUATE ALL REFRIGERANT FROM THE SYSTEM.
a.2. ISOLATE THE COMPONENT INTERCONNECTING PIPING AND CHARGE WITH DRY, OXYGEN FREE NITROGEN (OFN) TO 1.3 TIMES THE MAXIMUM ALLOWABLE PRESSURE OF THE SYSTEM COMPONENTS. MAINTAIN PRESSURE FOR 12 HOURS. IF LOSS OF PRESSURE OCCURS, LOCATE AND REPAIR LEAKS AND REPEAT TEST PROCEDURE.
b. ENTIRE SYSTEM
b.1. EVACUATE ALL REFRIGERANT FROM THE SYSTEM.
b.2. CHARGE SYSTEM WITH DRY OFN TO THE MAXIMUM ALLOWABLE PRESSURE OF THE SYSTEM COMPONENTS. MAINTAIN PRESSURE FOR 12 HOURS. IF LOSS OF PRESSURE OCCURS, LOCATE AND REPAIR LEAKS AND REPEAT TEST PROCEDURE.
2. VACUUM TEST

- a. FOLLOWING SUCCESSFUL PRESSURE TESTING, EVACUATE THE SYSTEM TO 1500 MICRON. BREAK THE VACUUM WITH DRY OFN TO 1 BAR. REPEAT ONCE.
b. CONTINUOUSLY EVACUATE THE SYSTEM TO BETWEEN 300 MICRON AND 500 MICRON FOR A MINIMUM OF 1 HOUR. INSPECT VACUUM PUMP FOR SIGNS OF MOISTURE DISCHARGE. CONTINUE EVACUATION AND INSPECT AT 1 HOUR INTERVALS UNTIL MOISTURE IS NOT PRESENT.
c. MAINTAIN VACUUM FOR FOR 12 HOURS. IF LOSS OF VACUUM OCCURS, REPEAT TEST PROCEDURE.

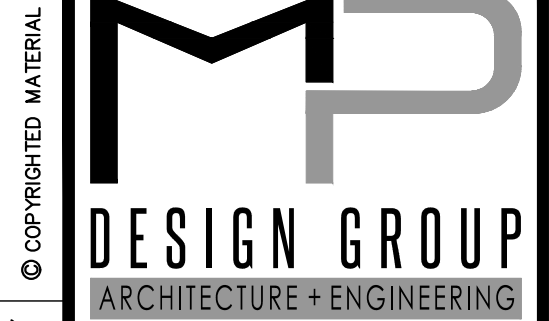
- 3. FOLLOWING SUCCESSFUL PRESSURE AND VACUUM TESTING, CHARGE SYSTEM WITH NEW REFRIGERANT. RECOVERED, RECYCLED, OR RECLAIMED REFRIGERANT SHALL BE TREATED TO REMOVE MOISTURE, OIL, ACID, AND PARTICULATE MATTER PRIOR TO USE.
4. DOCUMENT TESTING AND PROVIDE TO OWNER. INSPECTION BY LOCAL AUTHORITY MAY BE REQUIRED.

J. CONDENSATE PIPING

- 1. ALL CONDENSATE PIPING SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
2. MATERIAL
a. CONDENSATE PIPING SHALL BE APPROVED, DWV SCHEDULE 40 PVC WITH PVC FITTINGS AND SOLVENT CEMENT JOINTS UNLESS OTHERWISE NOTED.
3. SIZING-CONNECTED LOAD
a. 2 TONS OR LESS=3/4"
b. MORE THAN 2 TONS TO 5 TONS=1"
4. MINIMUM SLOPE
a. 2-1/2" OR LESS=1/4" PER FOOT

- K. DUCT ACCESS DOORS SHALL BE GASKETED.
L. ALL PIPING SHALL BE LABELED IN ACCORDANCE WITH ASTM STANDARD A13.1. LABELS SHALL INCLUDE PIPING SERVICE (REFRIGERANT SUCTION, REFRIGERANT LIQUID, CONDENSATE, ETC.), SIZE, AND DIRECTION OF FLOW.
M. COORDINATE ALL REQUIRED WALL, FLOOR, CEILING, AND ROOF PENETRATION LOCATIONS AND SIZES WITH THE GC PRIOR TO CONSTRUCTION. GC SHALL PROVIDE ALL REQUIRED FRAMED OPENINGS, HEADERS, MASONRY OPENINGS, LINTELS, ETC. AS NECESSARY.
N. COORDINATE ALL DUCT LOCATIONS, SIZES, AND ROUTING WITH GC PRIOR TO CONSTRUCTION. GC SHALL PROVIDE A CLEAR PATH THROUGH FRAMING AND MASONRY COMPONENTS TO ACCOMMODATE DUCT ROUTING.
O. ALL OPERABLE WALL MOUNTED DEVICES (SWITCHES, THERMOSTATS, ETC.) SHALL BE INSTALLED SO THAT THE OPERABLE COMPONENT IS A MAXIMUM OF 48" AFF AND IN ACCORDANCE WITH ADA AND ABA STANDARDS.

PRINTED: 3/20/2024 11:04 AM BY: Tyler Abell LAST SAVED: 2/22/2024 1:56 PM BY: Tabell m:\0004_jackson county\0004_23.001_saracennia fire station\05-mechanical\02-production drawings\saracennia fire station_mechanical.dwg



"Designed to Build"
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

David J. Machado, PE
Brad P. Palano, PE
Gerrod W. Kilpatrick, PE
Bradford A. Jones, AIA



SARACENNIA FIRE STATION

JACKSON COUNTY

SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
PROJECT NO: 0004.23.001
DRAWN BY: TJA
CHECKED BY: JMV

MECHANICAL NOTES

Table with 4 columns: NO., REVISION / SUBMITTAL, DATE, and ISSUED FOR CONSTRUCTION. Row 1: REV 0, 04.07.24, M001

M001

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

THE ORIGINAL SEALED AND SIGNED DRAWINGS AND ALL REVISIONS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW AND COMMENT. THE ORIGINAL SEALED AND SIGNED DRAWINGS AND ALL REVISIONS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW AND COMMENT. THE ORIGINAL SEALED AND SIGNED DRAWINGS AND ALL REVISIONS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW AND COMMENT.

PRINTED: 3/20/2024 11:04 AM BY: Tyler Abell LAST SAVED: 2/22/2024 1:58 PM BY: Tabell
 m:\0004_jackson county\0004.23.001_saracennia fire station\mechanical\01-production drawings\saracennia fire station_mechanical.dwg

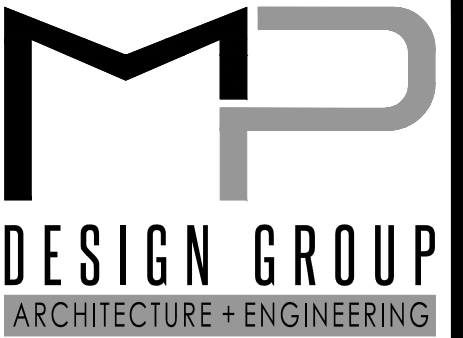
HVAC ABBREVIATIONS

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

HVAC SYMBOLS

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

THE ORIGINAL SEALED AND SIGNED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE ARCHITECTURAL AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / ANS / OR OWNER SHALL CONSULT ENGINEER PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE ARCHITECTURAL AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SEALED, DATED AND SEALED ENGINEERED PLAN SET SHALL PREVAIL OVER ANY OTHER PLANS, REVISED DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATRICK, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION
 JACKSON COUNTY
 SARACENNIA RD, MOSS POINT, MS 39562

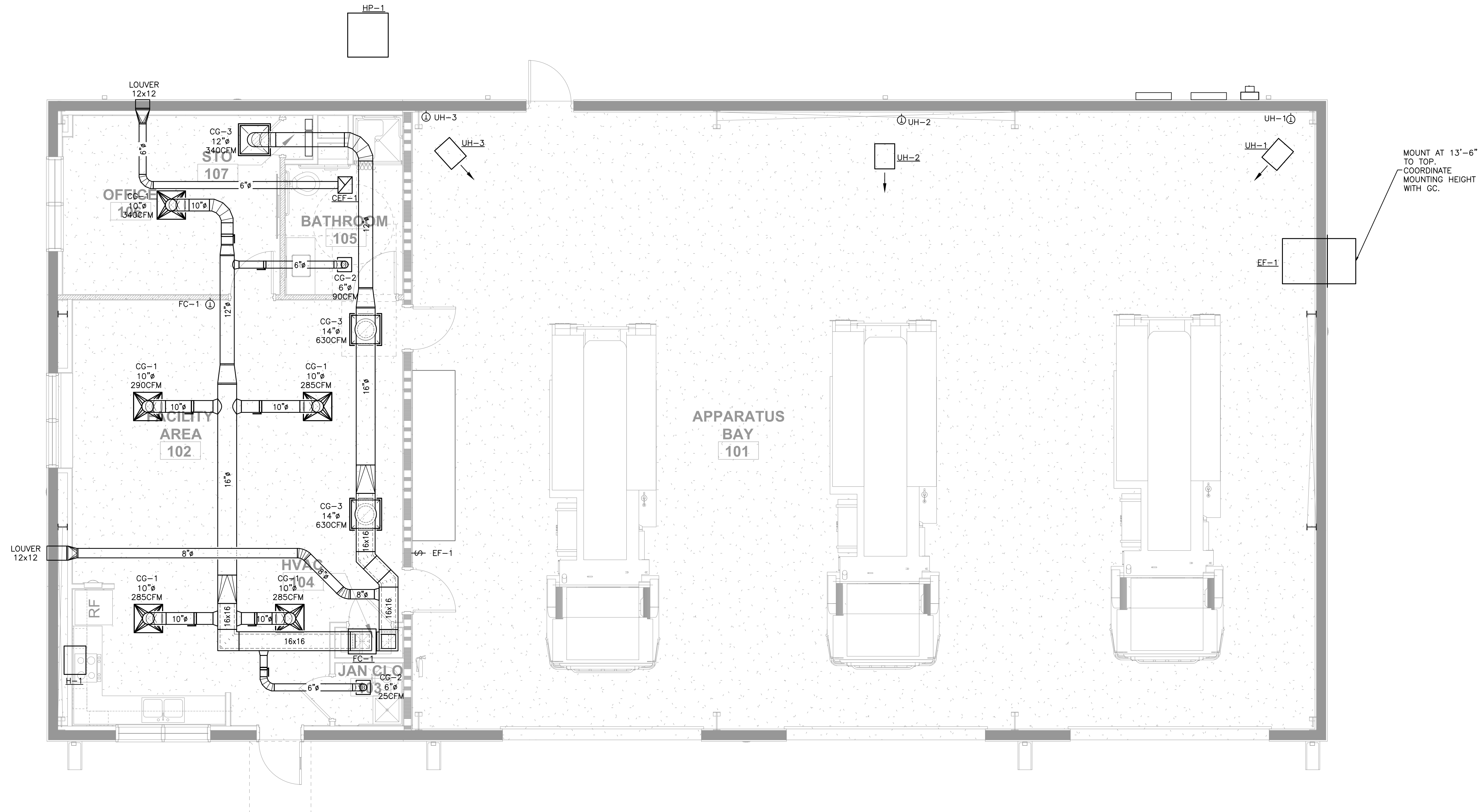
SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: TJA
 CHECKED BY: JMV

HVAC ABBREVIATIONS & SYMBOLS

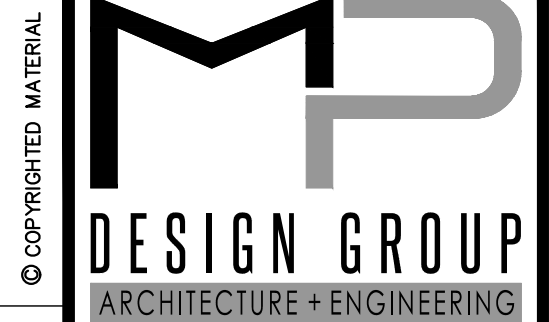
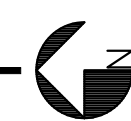
NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

M002
 VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PRINTED: 3/20/2024 11:04 AM BY: Tyler Abell LAST SAVED: 2/22/2024 1:58 PM BY: Tabell
 m:\0004_jackson county\0004.23.001_saracenia fire station\mechanical\01-production drawings\saracenia fire station_mechanical.dwg

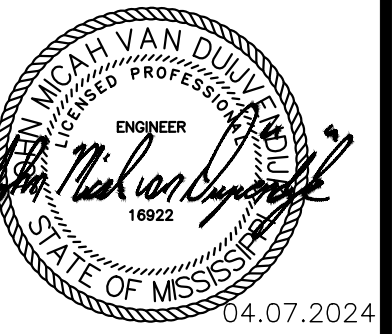


1 MECHANICAL PLAN
 SCALE: 1/4"=1'-0"



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENIA FIRE STATION
 JACKSON COUNTY
 SARACENIA RD, MOSS POINT, MS 39562

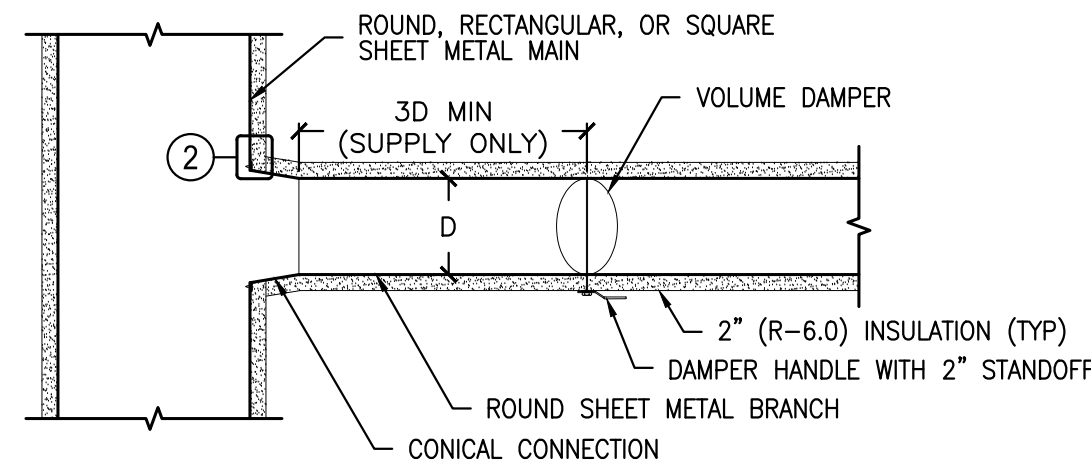
SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: TJA
 CHECKED BY: JMV

MECHANICAL PLAN

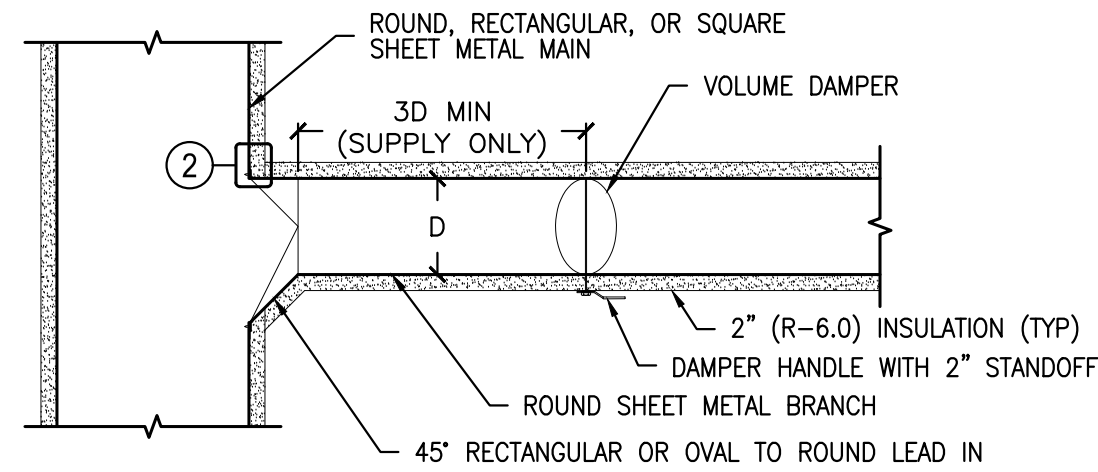
NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

M101
 VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

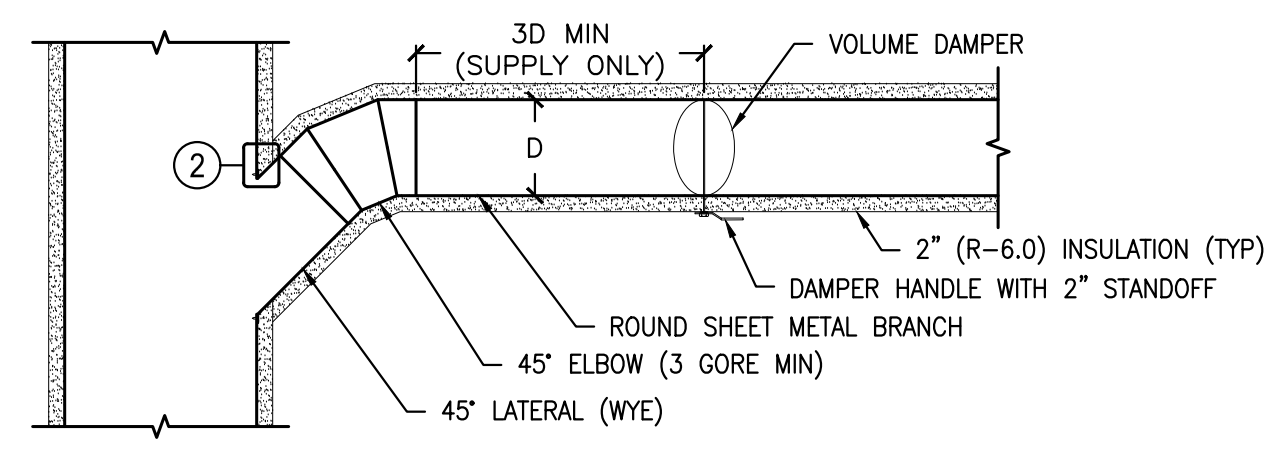
THE ORIGINAL SEALED AND SIGNED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE ARCHITECTURE AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / ANS / OR OTHER SHALL CONSULT ENGINEERING PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE ARCHITECTURE AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLAN SET SHALL PREVAIL OVER ANY OTHER PLANS, REVISED PLANS, OR ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO, P.L.L.C. AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL



OPTION 1—CONICAL CONNECTION



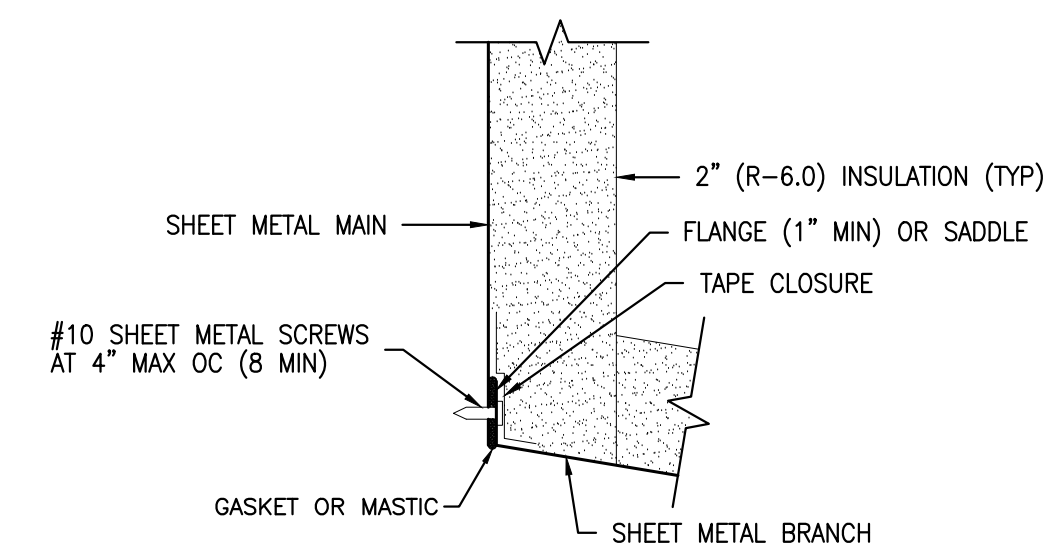
OPTION 2—45° LEAD IN CONNECTION



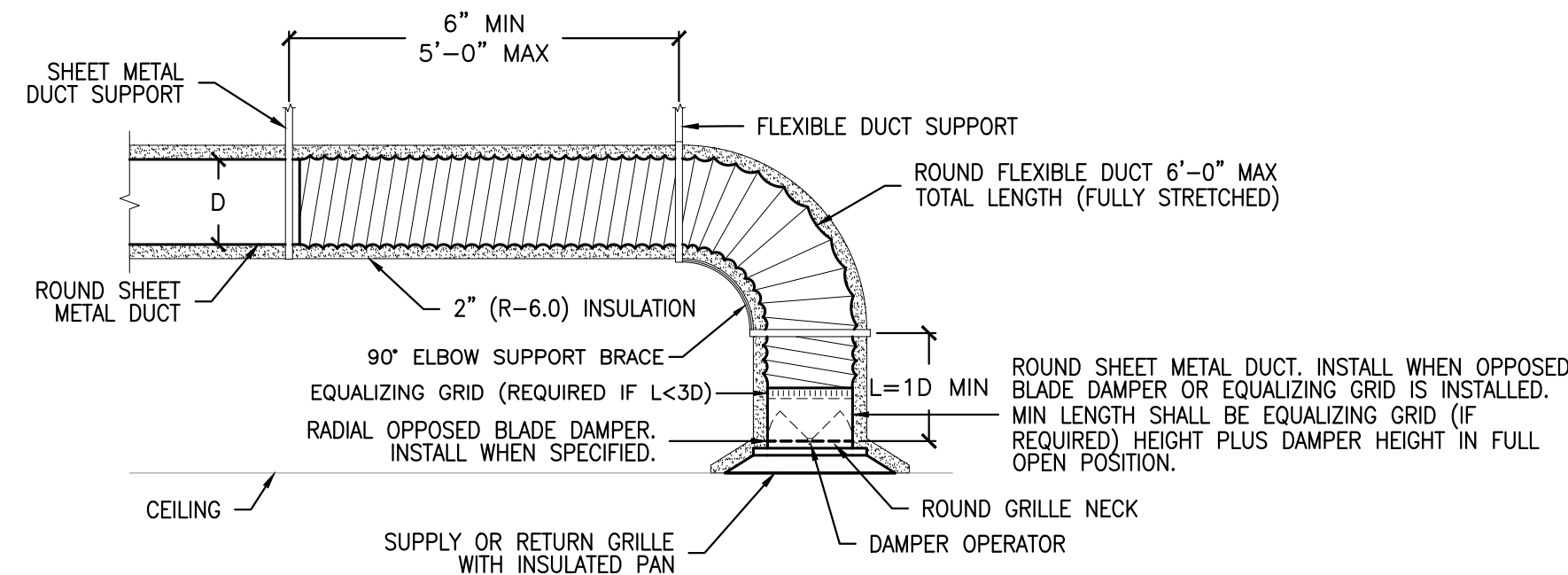
OPTION 3—45° LATERAL CONNECTION

1 SHEET METAL DUCT BRANCH CONNECTION OPTIONS
SCALE: NTS

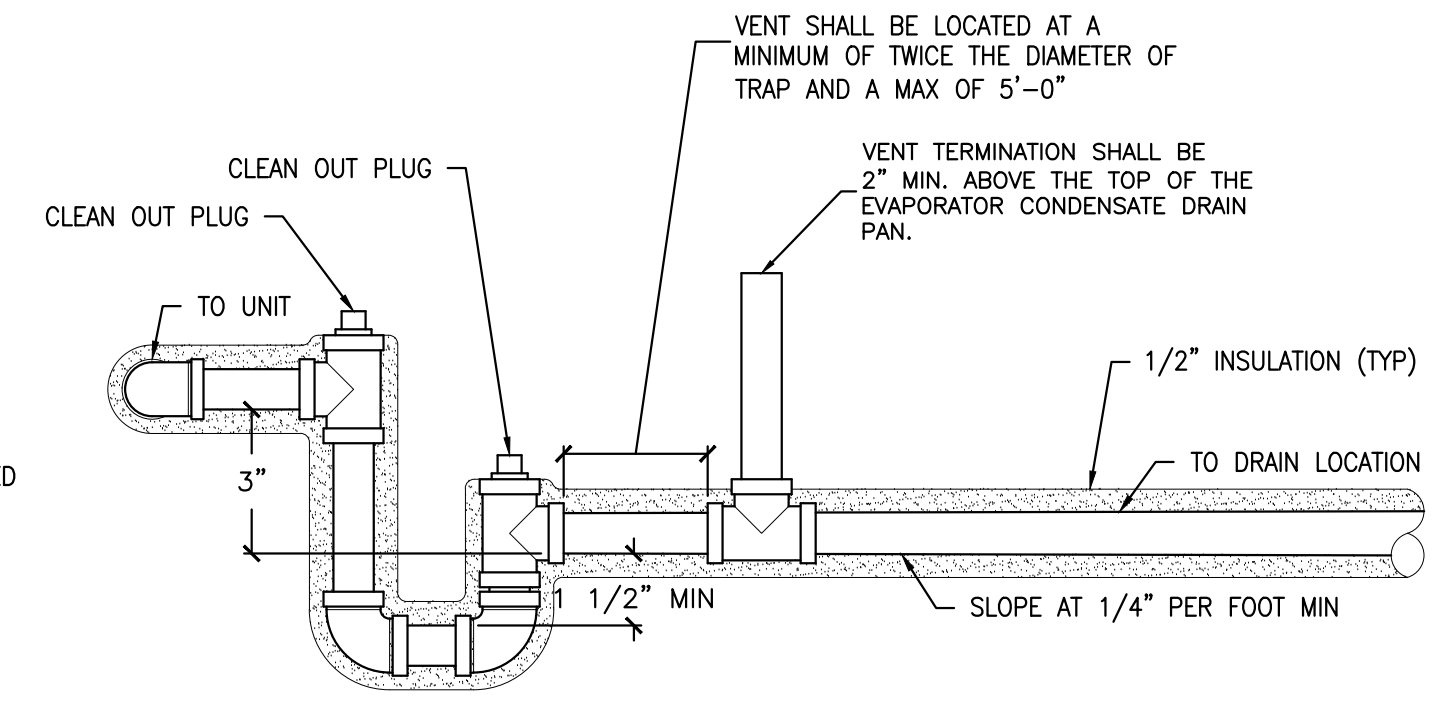
NOTE:
NO OTHER FITTINGS ARE ACCEPTABLE UNLESS THEY ARE SUBMITTED TO AND APPROVED BY THE ENGINEER



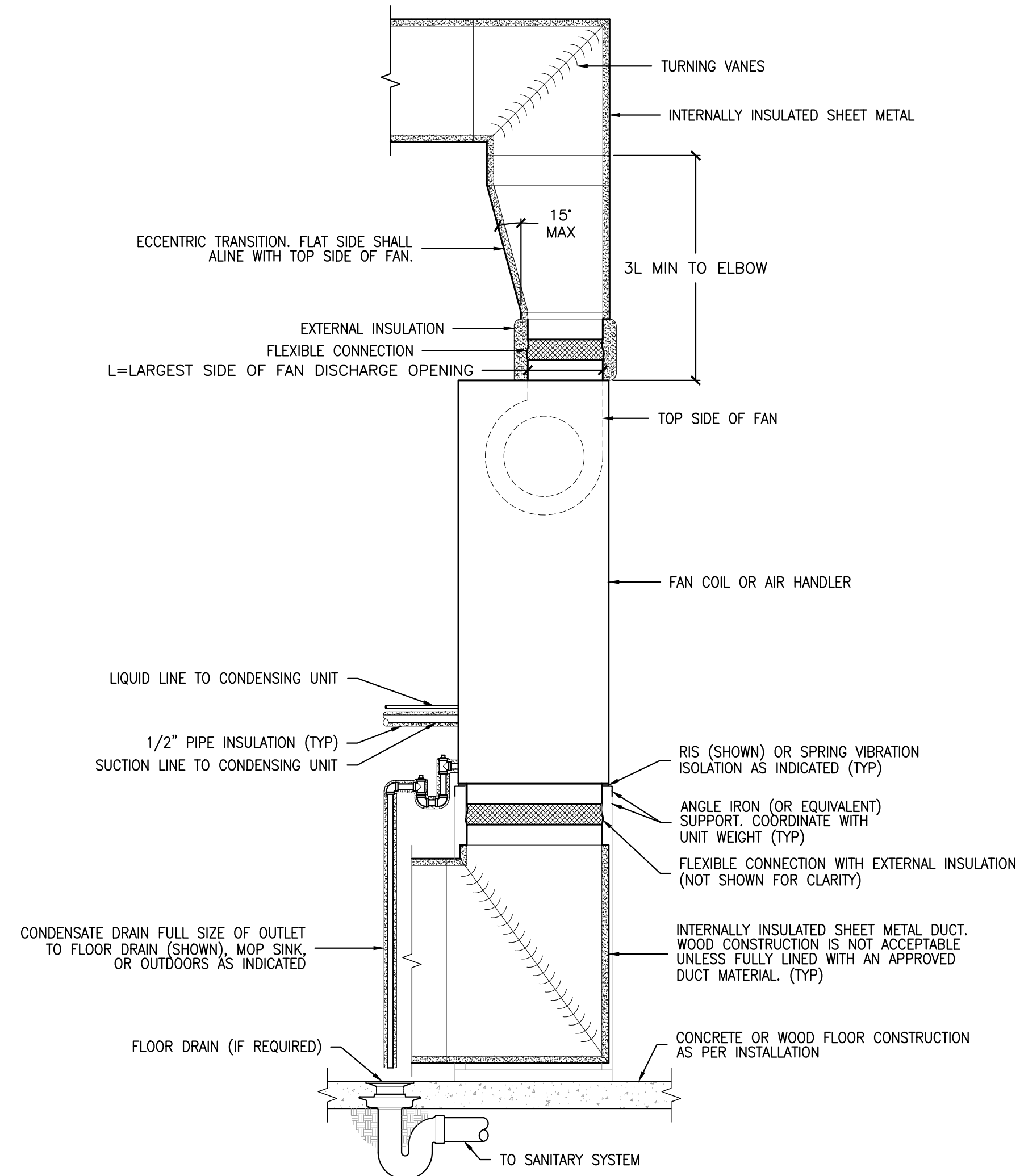
2 SHEET METAL DUCT BRANCH CONNECTION DETAIL
SCALE: NTS



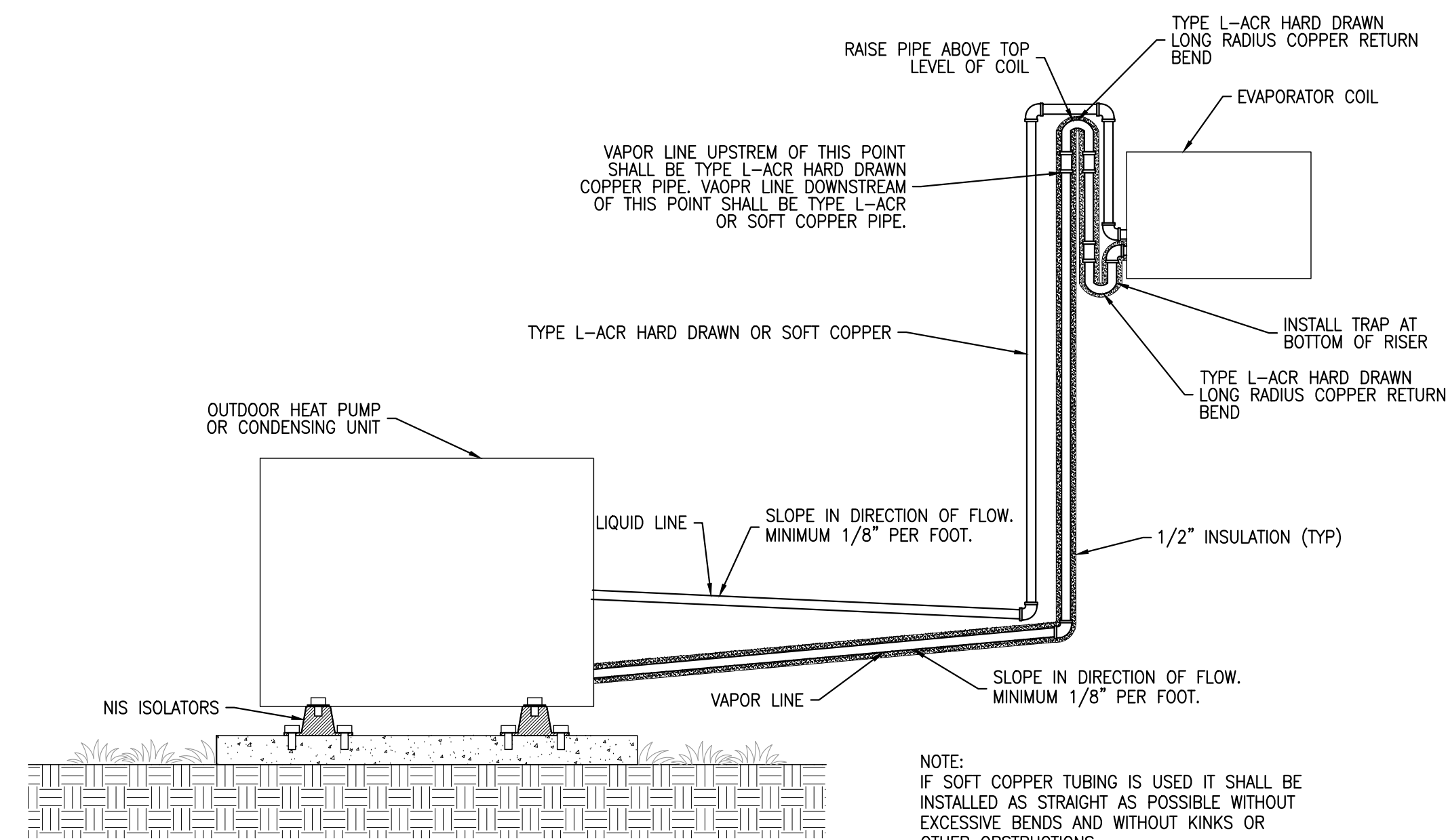
4 BRANCH DUCT TERMINATION DETAILS
SCALE: NTS



5 CONDENSATE DRAIN DETAIL
SCALE: NTS

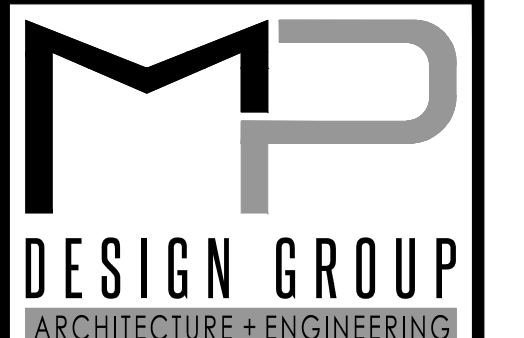


3 FAN COIL/AIR HANDLER DETAIL (RETURN AIR PLENUM)
SCALE: NTS

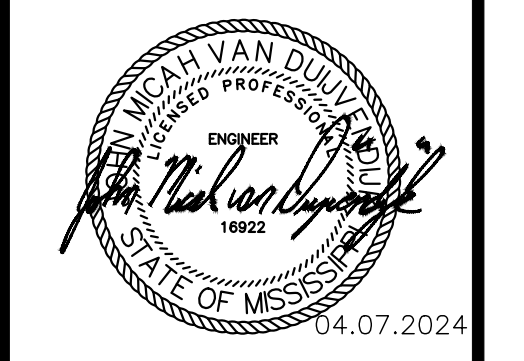


6 REFRIGERANT PIPING DETAIL (INDOOR COIL ABOVE CONDENSER OR AT SAME LEVEL)
SCALE: NTS

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



ARCHITECTURE + ENGINEERING
"Designed to Build"
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us
David J. Machado, PE
Brad P. Patano, PE
Gerrod W. Kilpatrick, PE
Bradford A. Jones, AIA



SARACENIA FIRE STATION
JACKSON COUNTY
SARACENIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
PROJECT NO: 0004.23.001
DRAWN BY: TJA
CHECKED BY: JMV

MECHANICAL DETAILS

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

M501
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PRINTED: 3/20/2024 11:04 AM BY: Tyler Abell LAST SAVED: 2/22/2024 1:56 PM BY: Tabell m:\0004_jackson county\0004.23.001_saracenia fire station\05-mechanical\02-production\01-production drawings\saracenia fire station mechanical.dwg

THE ORIGINAL, SIGNED, SEALED AND RECALCULATED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AGENCY. ANY CHANGES OR REVISIONS TO THESE PLANS MUST BE MADE BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS SET SHALL GOVERN. ANY OTHER PLANS, DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, P.L.L.C. AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

PRINTED: 3/20/2024 11:04 AM BY: Tyler Abell LAST SAVED: 2/22/2024 1:56 PM BY: Tabell
 m:\0004_jackson county\0004.23.001_saracennia fire station\05-mechanical\02-production drawings\saracennia fire station_mechanical.dwg

FAN COIL SCHEDULE

TAG	MAKE	MODEL	CFM	OA (CFM)	ESP (IN WC)	NOMINAL COOLING (BTUH)	ELECTRIC HEAT (KW)	LIQUID LINE (IN)	SUCTION LINE (IN)	V/PH	HEATER AMPS	FAN HP	FAN FLA	MCA	MOCP	LBS	NOTES
FC-1	TRANE	TEM6A0C48H41SA	1600	125	0.5	45400	11.25	3/8	7/8	208/3	30.0	0.75	6.8	45	45	185	1,2,3,4
1 WITH WIRED, WALL MOUNTED THERMOSTAT.										2 MOUNT ON NIS VIBRATION ISOLATION							
3 WITH 5 YEAR WARRANTY										4 WITH SINGLE POINT POWER CONNECTION							

HEAT PUMP/CONDENSING UNIT SCHEDULE

TAG	MAKE	MODEL	NOMINAL COOLING (BTUH)	NOMINAL HEATING @17°F (BTUH)	LIQUID LINE (IN)	SUCTION LINE (IN)	V/PH	COMPRESSOR RLA	COMPRESSOR LRA	FAN FLA	FAN HP	MCA	MOCP	LBS	NOTES
HP-1	TRANE	4TWA4048A3000A	45400	28200	3/8	7/8	208/3	13.7	82.1	1.1	0.2	18.0	30	220	1,2,3,4,5,6
1 WITH 5 YEAR WARRANTY					2 WITH LOW AMBIENT CONTROL										
3 WITH HAIL GUARDS					4 MOUNT/SECURE TO CONCRETE PAD OVER NIS VIBRATION ISOLATION										
5 COORDINATE REFRIGERANT LINE SIZES, LENGTHS, AND ROUTING WITH MANUFACTURER					6 WITH 1000HR RATED EPOXY COATING ON COILS										

GRILLE SCHEDULE

TAG	TYPE	MAKE	MODEL	FRAME	MODULE/NOMINAL FACE SIZE	NOTES	
CG-1	360° PLAQUE FACE HIGH INDUCTION SURFACE MOUNT CEILING DIFFUSER	PRICE	SPD HI-VCR7	31	24x24	1,2,7,9	
CG-2	360° PLAQUE FACE SURFACE MOUNT CEILING DIFFUSER	PRICE	SPD-VCR7	31	12x12	1,7,9	
CG-3	LOUVERED SURFACE MOUNT CEILING RETURN/EXHAUST GRILLE	PRICE	530D-C-SR-ø	F	24x24	3,4,5,6,7,8,9	
1 WITH RADIAL OPPOSED BLADE DAMPER		2 WITH INSULATED BACKPAN					
3 WITH CONCEALED FASTENING		4 WITH OPPOSED BLADE DAMPER					
5 WITH SQUARE TO ROUND ADAPTER		6 NO SCREWHOLES					
7 WITH WHITE POWDER COAT FINISH (B12)		8 WITH FULL FACED LOUVER OR GRID (NO PANEL MOUNTING)					
9 WITH PLASTER FRAME							

CEILING EXHAUST FAN SCHEDULE

TAG	MAKE	MODEL	CFM	TSP	RPM	W	AMPS	V/PH	LBS	NOTES
CEF-1	GREENHECK	SP-A70-VG	70	0.25	838	7.6	0.30	120/1	20	1,2,3,4
1 WITH SPEED CONTROLLER FOR BALANCING			2 WIRE THROUGH LIGHT SWITCH							
3 WITH BACK DRAFT DAMPER			4 WITH ECM MOTOR							

HOOD SCHEDULE

TAG	MAKE	MODEL	CFM	LENGTH	DEPTH	HEIGHT	NOTES
H-1	FRIGIDAIRE	FHWC3640MS	300	36"	18.63"	5"	1,2,3,4,5,6,7
1 UNDER CABINET MOUNTED							
2 WITH 3 SPEED BLOWER							
3 NON-DUCTED RECIRCULATING							
4 STAINLESS STEEL							
5 WITH HALOGEN LIGHTING							
6 ALUMINUM BAFFLES							
7 COORDINATE WITH MILL WORK							

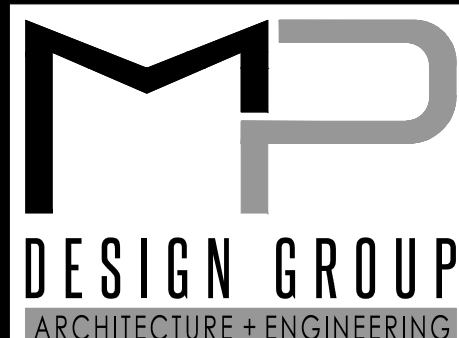
UNIT HEATER SCHEDULE (ELECTRIC)

TAG	MAKE	MODEL	INPUT (KW)	OUTPUT (MBH)	CFM	V/PH	LBS	NOTES
UH-1	MODINE	HER100	10	34.1	830	240/1	70	1,2,3,4,5
UH-2	MODINE	HER100	10	34.1	830	240/1	70	1,2,3,4,5
UH-3	MODINE	HER100	10	34.1	830	240/1	70	1,2,3,4,5
1 MAX MOUNTING AT 9'-0" AFF			2 WITH PROPELLER BLADE FAN					
3 WITH WALL MOUNTED THERMOSTAT			4 PROVIDE CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS					
5 WITH ROOF SUPPORT MEMBER								

EXHAUST FAN SCHEDULE

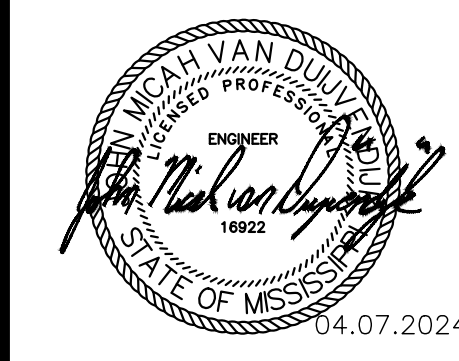
TAG	MAKE	MODEL	CFM	TSP	RPM	HP	V/PH	LBS	NOTES
EF-1	GREENHECK	SBE-1H30	7250	0.20	672	1/2	120/1	86	1,2,3,4,5,6
1 WITH WALL HOUSING			2 WITH REAR GUARD						
3 WITH DECORATIVE COATING (SUBMIT COLOR SAMPLES FOR SELECTION BY ARCHITECT)			4 WITH GRAVITY BACKDRAFT DAMPER						
5 WIRE THROUGH WALL SWITCH			6 WITH WEATHERHOOD						
7 MOUNT TOP OF FAN AT 13' 6" AFF									

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE ARCHITECTURE AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / ANY OTHER SHALL CONSULT ENGINEER'S PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL PREVAIL OVER ANY OTHER PLANS, REVISED DETAILS, AND NOTES THAT APPEAR ON THIS SHEET. ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION
 JACKSON COUNTY
 SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: TJA
 CHECKED BY: JMV

MECHANICAL SCHEDULES

NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

M601
 VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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

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

SYSTEM DEVICES			
FLOOR	WALL	CEIL.	DESCRIPTION
			TELEPHONE OUTLET, FLUSH MOUNTED
			COMBINATION DATA/TELEPHONE OUTLET, FLUSH MOUNTED
			CABLE TELEVISION OUTLET, FLUSH MOUNTED
			FIRE ALARM, COMBINATION AUDIO/VISUAL ANNUNCIATION UNIT. CANDELA AS INDICATED. WALL MOUNTED 7"-6" AFF UNLESS OTHERWISE NOTED. CEILING MOUNTED.
			STROBE, WALL MOUNTED 7"-6" AFF UNLESS OTHERWISE NOTED. CEILING MOUNTED CANDELA AS INDICATED.
			FIRE ALARM PULL STATION. WALL MOUNTED 48" AFF.
			HEAT DETECTOR CEILING MOUNTED.
			SMOKE DETECTOR CEILING MOUNTED.
			DUCT SMOKE DETECTOR, WITH SAMPLING TUBE MOUNTED IN HVAC DUCT.
			FLOW SWITCH
			CONTROL MODULE
			TAMPER SWITCH
			FIRE ALARM CONTROL PANEL (FACP)
			TRANSCEIVER
			FIRE ALARM REMOTE ANNUNCIATOR PANEL.
			VARIABLE FREQUENCY DRIVE
			TELEPHONE BACK BOARD PANEL

WIRING SYMBOLS	
	DESCRIPTION
	WIRING (IN CONDUIT) CONCEALED IN CEILING OR WALL
	WIRING (IN CONDUIT) RUN EXPOSED
	WIRING UNDERGROUND (SITE WORK)
	TELECOMMUNICATION RACEWAY (SITE WORK)
	HOMERUN TO PANELBOARD WITH NOMENCLATURE (LETTERS), CIRCUIT NUMBERS (NUMBERS), NUMBER OF CIRCUITS (NUMBER OF ARROWS), EACH CIRCUIT TO HAVE GROUND.
	ELECTRICAL MANHOLE
	TELECOMMUNICATION MANHOLE
	GROUND CONNECTION
	SINGLE-POLE TOGGLE SWITCH.
	WEATHER PROOF BUTTON SWITCH.
	THREE-WAY BUTTON SWITCH.
	SLIDE DIMMER FLUORESCENT.
	SWITCH, MOTOR RATED
	SWITCH, MOTION SENSOR, LITHONIA WSX SERIES OR APPROVED EQUAL
	PHOTO CELL
	OCCUPANCY SENSOR, LITHONIA LIGHTING CEILING MOUNTED 360 DEGREE PASSIVE DUAL TECHNOLOGY MOTION SENSOR, OR APPROVED EQUAL
	CONDUIT STUBBED OUT
	GROUNDING CONNECTION BAR
	10' 3/4" COPPER CLAD GROUND ROD.

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

SPECIAL SYSTEMS	
	DESCRIPTION
	SPEAKER. CEILING MOUNT.
	INTERCOM CALL STATION.
	FLOOR MOUNTED MICROPHONE OUTLET ACE BACKSTAGE HALF STAGE POCKET OR EQUAL.
	WALL MOUNTED VOLUME CONTROL 70 VOLT.
	MAGNETIC DOOR CONTACT. SECURITY SYSTEM
	GLASS BREAK SENSOR. SECURITY SYSTEM
	MOTION DETECTOR. SECURITY SYSTEM.
	SECURITY SYSTEM PANEL.
	KEYPAD SECURITY SYSTEM.
	OVERHEAD PROJECTOR

ONE-LINE SYMBOLS	
	DESCRIPTION
	METER ENCLOSURE
	METER
	CIRCUIT BREAKER
	SWITCH, SINGLE POLE-SINGLE THROW
	FUSE
	FUSE
	FUSED SWITCH
	FUSED SWITCH
	DRY TYPE TRANSFORMER
	PANELBOARD
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	LIGHTING CONTACTOR
	GROUND FAULT MONITORING
	KIRK-KEY MECHANICAL INTER-LOCK
	GROUND SYSTEM TEST WELL WITH GROUND ROD CONNECTION
	EXOTHERMIC WELD GROUND ROD CONNECTION
	EXOTHERMIC WELD CONNECTION
	4-WAY SF ₆ SWITCH
	6-WAY SF ₆ SWITCH
	TYPICAL DUAL CIRCUIT AIR BREAK TRANSFORMER DESIGN
	TRANSFORMER STATION NUMBER BUILDING NUMBER OR LOCATION
	LOAD BREAK SF ₆ SWITCH
	MOTOR STARTER (NUMBER INDICATES NEMA SIZE)
	UNDERVOLTAGE RELAY
	VOLT METER
	AMMETER
	TRANSIENT VOLTAGE SURGE SUPPRESSION

ELECTRICAL SYMBOL SCHEDULES	
NO.	REVISION / SUBMITTAL
REV. 0	ISSUED FOR CONSTRUCTION
DATE	04.07.24

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / ANY OTHER OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLANS SET SHALL OVERRIDE ANY OTHER PLANS, THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

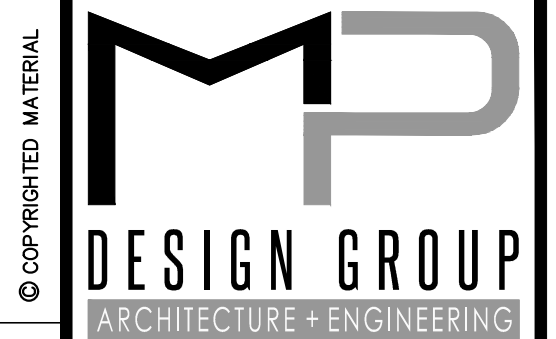
PRINTED: 3/20/2024 1:44 PM BY: Kenneth Beverin LAST SAVED: 2/26/2024 4:19 PM BY: Dmenhennett
 m:\0004_jackson_county\0004.23.001_saracennia_fire_station\06-electrical\02-production\01-production\drawings\saracennia_fire_station_electrical.dwg

GENERAL NOTES

1. PROVIDE A PERMANENT SIGN ON THE MAIN ELECTRICAL ROOM DOOR TO THE BUILDING STATING THAT THE MAIN SERVICE DISCONNECT(S) ARE LOCATED INSIDE.
2. EQUIPMENT SHALL BE MOUNTED ON MATERIALS SUITABLE FOR THE ENVIRONMENT WHICH IT IS INSTALLED WITH THE APPROPRIATE NEMA ENCLOSURE RATING.
3. WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC ARTICLE 110 AND 408.
4. THE DEDICATED ELECTRICAL SPACE EXTENDED FROM THE FLOOR TO THE STRUCTURAL CEILING WITH THE WIDTH AN DEPTH OF THE PANEL-BOARD OR SWITCHBOARD, MUST BE CLEAR OF ALL PIPING, DUCTS, EQUIPMENT FOREIGN TO THE ELECTRICAL OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH THE NEC 110 & 408. COORDINATE INSTALLATION OF ELECTRICAL EQUIPMENT WITH OTHER TRADES PRIOR TO ROUGHING IN EQUIPMENT.
5. ALL ELECTRICAL EQUIPMENT AND THE RESULTANT INSTALLATION OF SUCH EQUIPMENT, DEVICES, ETC., SHALL BE IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRIC CODE, NFPA 70, ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND THE STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE NFPA 70E.
6. DRAWINGS AND SPECIFICATIONS FORM A COMPLETE SET OF DOCUMENTS FOR THE WORK IN THIS PROJECT. NEITHER IS COMPLETE WITHOUT THE OTHER. ANY ITEM MENTIONED IN ONE SHALL BE BINDING AS MENTIONED IN BOTH.
7. CONTRACTOR SHALL TAKE RESPONSIBILITY FOR FIELD VERIFICATION OF ALL DIMENSIONS AND LOCATIONS OF EXISTING, RELOCATED AND NEW EQUIPMENT AND SHALL BE RESPONSIBLE FOR COORDINATION WITH THE WORK OF OTHER TRADES NECESSARY TO THE PROJECT.
8. THESE DRAWINGS ARE INTENDED TO OUTLINE THE SCOPE OF WORK REQUIRED TO PROVIDE A COMPLETE AND OPERABLE PROJECT CONCLUSION. ALL MISCELLANEOUS COMPONENTS, PARTS, FASTENERS, SPLICES AND OTHER INCIDENTAL ITEMS NECESSARY TO PROVIDE A COMPLETED PROJECT SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY NOTED.
9. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS ARISING FROM DISCOVERED CONDITIONS AT ANY PHASE OF THE PROJECT.
10. CONTRACTOR SHALL NOTIFY MISSISSIPPI ONE CALL TO DETERMINE THE LOCATION AND DEPTH OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
11. AT ANY LOCATION WHERE EXCAVATION OR ASSOCIATED WORK CAUSES DAMAGE TO EXISTING UNDERGROUND UTILITIES, CONTRACTOR SHALL RESTORE THE DAMAGED SYSTEM TO LIKE-NEW STATE.
12. ALL BRANCH CIRCUITS SHALL HAVE A SEPARATE NEUTRAL AND GROUND.
13. ALL ABOVE GROUND EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL.
14. LOCATIONS OF OTHER EQUIPMENT SPECIFIED BY OTHER TRADES OR PROVIDED BY OWNER ARE APPROXIMATE. COORDINATE EXACT LOCATION IN FIELD PRIOR TO ROUGHING IN AND ROUTING CONDUIT.
15. SEE ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR EXACT LOCATIONS FOR LIGHT FIXTURES IN LAY-IN OR DRYWALL CEILINGS, AND ON INTERIOR OR EXTERIOR WALLS.
16. CONDUITS ARE NOT NECESSARILY SHOWN ON PLAN DRAWINGS FOR SAKE OF CLARITY. PROVIDE CONDUITS BETWEEN DEVICES AND TO PANELS PER REQUIREMENTS LISTED IN DIVISION 26 SPECIFICATIONS. INDICATE EXACT ROUTING OF CONDUIT ON PLAN DRAWINGS AS PART OF AS BUILD DOCUMENTATION TO BE SUBMITTED AFTER FINAL COMPLETION.
17. FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
18. ALL EXIT, NIGHT LIGHT, AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH.
19. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
20. ELECTRICAL CONTRACTOR SHALL REVIEW MECHANICAL DRAWINGS AND SPECIFICATION TO OBTAIN LOCATIONS, WIRING REQUIREMENTS, CONTROL WIRING SCHEMES, INTERLOCK WIRING AND THERMOSTAT LOCATIONS.
21. ALL DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO QUANTIFY THE MATERIALS SPECIFIED AND INDICATED THEIR INTENDED RELATIONSHIP TO EACH OTHER. THE DRAWINGS ARE NOT TO BE SCALED. THE VARIOUS SCALES USED ON THE DRAWINGS MAY NOT ALLOW FOR ALL FITTINGS, OFFSETS, AND ACCESSORIES THAT MAY BE REQUIRED TO COMPLETE THE WORK. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE CONDITIONS THAT WOULD AFFECT THE WORK TO BE PERFORMED AND SHALL ARRANGE SUCH WORK AS NECESSARY TO COMPLY WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS.
24. ALL OPERABLE WALL MOUNTED DEVICES (SWITCHES, PULL STATIONS, ETC.) SHALL BE INSTALLED SO THAT THE OPERABLE COMPONENT IS A MAXIMUM OF 48" AFF AND IN ACCORDANCE WITH ADA AND ABA STANDARDS.

GENERAL FIRE ALARM NOTES

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIALS, EQUIPMENT, SOFTWARE AND PROGRAMMING NECESSARY FOR A COMPLETE AND FUNCTIONAL ADDRESSABLE FIRE ALARM SYSTEM.
2. ALL WORK SHALL COMPLY WITH THE CURRENT EDITIONS OF NFPA 70, 70E, 72, 90A, 101. FIRE ALARM SYSTEM IS A DELEGATED DESIGN ITEM. THESE DRAWINGS SHOW GENERAL INTENT. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL DEVICES REQUIRED FOR A CODE COMPLIANT SYSTEM WHETHER SHOWN ON THESE DRAWINGS OR NOT.
3. ALL CABLES SHALL BE IDENTIFIED WITH A PERMANENT LABEL AT THE DEVICE AND INSIDE THE FIRE ALARM PANEL.
4. THE CIRCUIT BREAKER INSIDE THE ELECTRICAL PANEL THAT PROVIDES THE POWER FOR THE FIRE ALARM CIRCUIT SHALL BE LABELED (FIRE ALARM). THE LOCATION OF THE CIRCUIT BREAKER SHALL BE LISTED ON THE INSIDE DOOR OF THE FIRE ALARM CONTROL PANEL.
5. BATTERY CAPACITY SHALL BE SIZED TO PROVIDE BACKUP FOR 60 HOURS IN NON-ALARM THEN PROVIDE 30 MINUTES AT MAXIMUM LOAD.
6. ALL WIRING SHALL BE CONTINUOUS AND UNBROKEN FROM THE PANEL TO THE FIRST DEVICE AND FROM DEVICE TO DEVICE.
7. ALL DETECTOR AND CONTROL DEVICE WIRING SHALL BE FPLP OR EQUAL AND 16 AWG MINIMUM.
8. ALL WIRING SHALL BE RUN IN MINIMUM 3/4" RED EMT. ALL EMT AND JUNCTION BOXES SHALL BE FACTORY PAINTED RED.
9. SUBMITTED SHOP DRAWINGS SHALL SHOW THE ACTUAL PROGRAMMING ADDRESS. THE ADDRESS SHALL IDENTIFY THE LOOP NUMBER AND THE DEVICE NUMBER. EACH DEVICE SHALL HAVE ITS ADDRESS PLACED ON THE BODY OF THE DEVICE VIA PRINTED LABEL WITH CHARACTERS 1/8" HIGH MINIMUM.
10. ALL STROBES SHALL BE SYNCHRONIZED IN ACCORDANCE WITH THE NATIONAL FIRE ALARM CODE, NFPA 72.
11. UNLESS OTHERWISE NOTED ALL HORNS SHALL BE SET TO PROVIDE A MINIMUM OF 95 DB @ 10 FEET. STROBES SHALL BE SET AS NOTED. THE HORN/STROBES SHALL BE WALL MOUNTED AT 80" TO 96" AFF OR 6" BELOW THE CEILING, WHICHEVER IS LOWER OR AS INDICATED ON THE DRAWINGS.
12. MOUNTING HEIGHTS SHALL BE COORDINATED WITH OTHER DISCIPLINES, AVOID BLOCKING DEVICES WITH OTHER EQUIPMENT.
13. ADDRESSABLE LOOPS SHALL BE PROGRAMMED TO 80% MAXIMUM.
14. POST INDICATOR VALVE AND OTHER SUPERVISORY TROUBLE SIGNALS SHALL BE TRANSMITTED AS SEPARATE AND DISTINCT SIGNALS.
15. NAC CIRCUITS SHALL BE WIRED CLASS B. SEPARATE NAC CIRCUITS ARE REQUIRED FOR AUDIBLE AND VISIBLE DEVICES.
16. PROVIDE VISIBLE NOTIFICATION DEVICES IN ALL MECHANICAL ROOMS WITH HIGH AMBIENT NOISE CONDITIONS.
17. NO "T" TAPPING WILL BE ALLOWED.
18. PROVIDE DUCT DETECTORS IN ALL AIR HANDLING UNITS PER NFPA 72. DUCT DETECTORS THAT ARE NOT READILY ACCESSIBLE SHALL BE PROVIDED WITH A REMOTE INDICATOR AND TEST SWITCH. READILY ACCESSIBLE SHALL BE DEFINED AS A LOCATION THAT DOES NOT REQUIRE A LADDER OR SPECIAL LIFTING EQUIPMENT FOR ACCESS TO THE DEVICE. DUCT DETECTORS REQUIRING SPECIAL LIFTING EQUIPMENT FOR ACCESS AND MAINTENANCE SHALL BE SPECIFICALLY AVOIDED.
19. REFERENCE MECHANICAL HVAC DRAWINGS. PROVIDE SMOKE DUCT DETECTOR WITHIN 5' OF EACH SMOKE OR FIRE/SMOKE DAMPER.
20. REFERENCE MECHANICAL HVAC DRAWINGS. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V POWER TO ALL SMOKE DAMPERS.
21. FIRE ALARM SYSTEM SHALL MONITOR ALL SUPERVISORY VALVES INSTALLED ON THE FIRE SUPPRESSION SYSTEM. COORDINATE WITH SUPPRESSION SYSTEM INSTALLER.
22. FIRE ALARM SYSTEM SHALL MONITOR ALL TAMPER AND FLOW SWITCHES INSTALL ON THE FIRE SUPPRESSION SYSTEM.
23. COORDINATE WITH OTHER TRADES. MAINTAIN 3' SEPARATION BETWEEN SMOKE DETECTORS AND HVAC DIFFUSERS.
24. PROVIDE FILE FOLDER HOLDER ADJACENT TO THE FIRE ALARM CONTROL PANEL.
25. PROGRAM FUNCTION BUTTONS AS FOLLOWS:
 - a. BYPASS THE HORNS/STROBES
 - b. BYPASS THE AHU SHUTDOWN
 - c. DRILL SWITCH
 - d. SHUTDOWN THE AHU



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrad W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION

JACKSON COUNTY

SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: DLM
 CHECKED BY: KDB

ELECTRICAL NOTES

NO.	REVISION / SUBMITTAL	DATE
REV 0	ISSUED FOR CONSTRUCTION	04.07.24

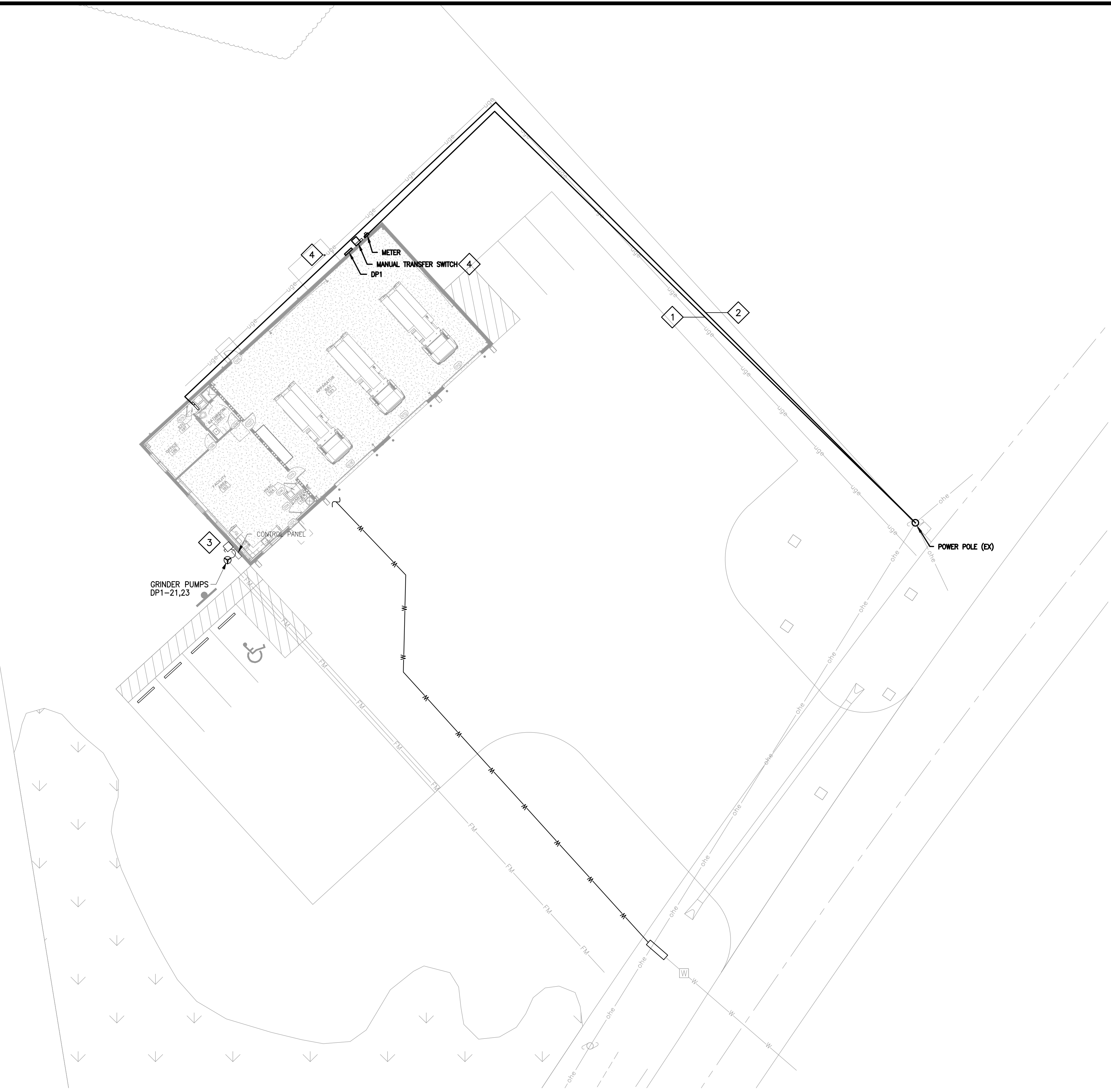
E002

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

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS, THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, P.L.L.C. AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

PRINTED: 3/20/2024 1:45 PM BY: Kenneth Beverin LAST SAVED: 2/26/2024 4:19 PM BY: Dmenhennett
 m:\0004_jackson_county\0004.23.001_saracennia_fire_station\06-electrical\02-production\01-production\drawings\saracennia_fire_station_electrical.dwg

1 ELECTRICAL SITE PLAN
 SCALE: 1/16" = 1'

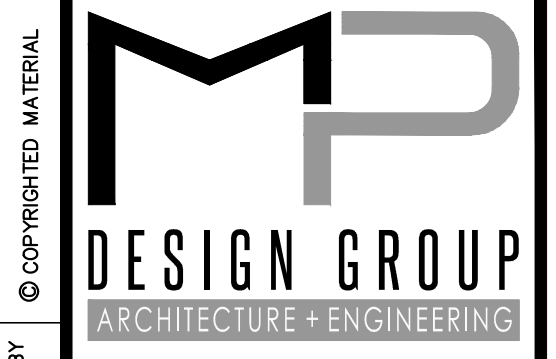


DRAWING E101 NOTES

1. ALL UNDERGROUND CONDUIT FITTINGS SHALL BE 36" LONG RADIUS.
2. INSTALL A METALLIC TRACER/WARNING TAPE 12" ABOVE ALL EXTERIOR CONDUITS. RED FOR POWER.
3. ALL EXTERIOR CONDUIT ABOVE GRADE SHALL BE RIGID GALVANIZED STEEL.
4. SAW CUT THROUGH EXISTING ASPHALT AND CONCRETE AND RETURN SURFACE GRADE MATERIALS AND GROUND TO ORIGINAL CONDITION.
5. ALL CONDUIT SHALL BE AT LEAST 48" BELOW GRADE.
6. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY FOR SERVICE ENTRANCE REQUIREMENTS. CONTRACTOR SHALL PAY ALL UTILITY FEES INCLUDING COST FOR TEMPORARY POWER DURING CONSTRUCTION.

DRAWING E101 SPECIFIC NOTES

1. CONTRACTOR SHALL PROVIDE AND INSTALL (2) 3" PVC CONDUITS FROM THE METER CAN TO A POWER POLE AS PROVIDED BY LOCAL UTILITY. CONTRACTOR SHALL COORDINATE EXACT TURN UP AND TERMINATION POINT ON THE POLE WITH THE LOCAL UTILITY.
2. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 3" PVC CONDUITS FROM BASE OF POWER POLE TO ABOVE THE CLOSET FOR TELECOMMUNICATIONS. CONDUITS SHALL BE CAPPED AND PROVIDED WITH PULL STRINGS AT BOTH ENDS OF CONDUIT.
3. CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT AND FEED FOR TWO GRINDER PUMPS CONNECTED TO ONE CONTROL PANEL. CONTRACTOR SHALL REFERENCE SHEET E601 FOR FEED SIZES. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITIES FOR EXACT REQUIREMENTS FOR NEW GRINDER PUMPS.
4. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 4" PVC CONDUITS FROM THE MANUAL TRANSFER SWITCH TO GENERATOR PAD. CONTRACTOR SHALL CAP CONDUIT AT PAD AND PROVIDE PULL STRING IN EMPTY CONDUIT.



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrad W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION
 JACKSON COUNTY
 SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS SHOWN
 PROJECT NO: 0004.23.001
 DRAWN BY: DLM
 CHECKED BY: KDB

ELECTRICAL SITE PLAN

NO.	REVISION / SUBMITTAL	DATE
REV 0	ISSUED FOR CONSTRUCTION	04.07.24

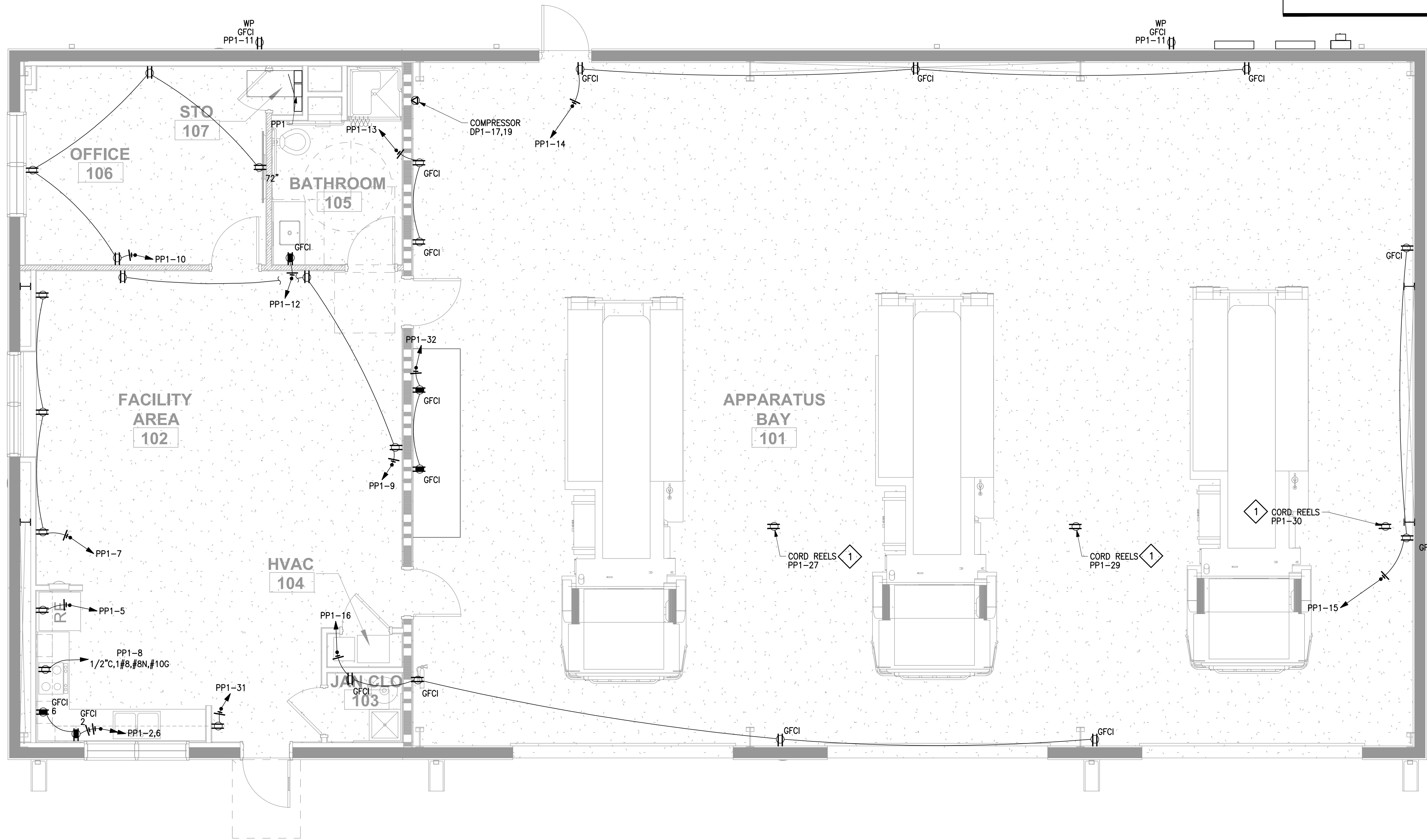
E101

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

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

PRINTED: 3/20/2024 1:45 PM BY: Kenneth Beverin LAST SAVED: 2/26/2024 4:19 PM BY: Dmenhennett
 m:\0004_jackson_county\0004.23.001_saracennia_fire_station\01-production\drawings\saracennia_fire_station_electrical.dwg

1 ELECTRICAL POWER PLAN
 SCALE: 1/4" = 1'-0"

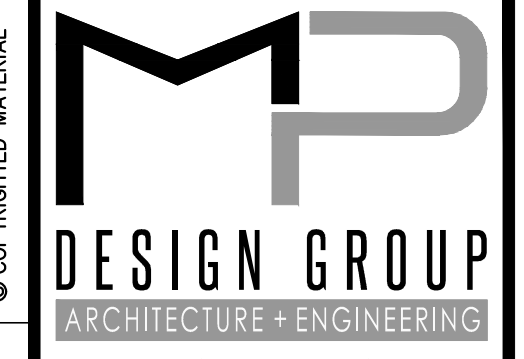


DRAWING E111 NOTES

- ALL RECEPTACLE CIRCUITS SHALL BE #12 AWG UNLESS OTHERWISE NOTED. IF MORE THAN 100'-0" TO THE FIRST CURRENT-CONSUMING DEVICE, THEN CONDUCTOR SHALL BE #10 AWG.
- ALL RECEPTACLES SHALL BE MOUNTED 18" AFF UNLESS OTHERWISE NOTED.

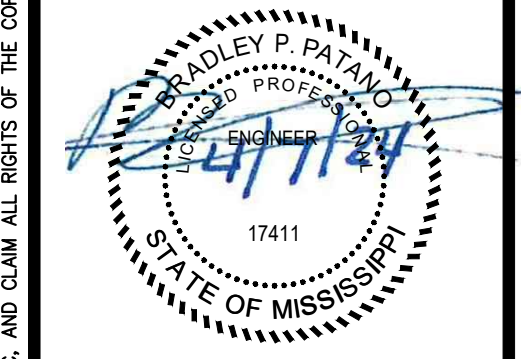
DRAWING E111 SPECIFIC NOTES

1 CONTRACTOR SHALL PROVIDE AND INSTALL RETRACTABLE CORD REEL. CONTRACTOR SHALL PROVIDE KH INDUSTRIES MODEL#: RTAG3LW-WC520-J12K.



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrad W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION
 JACKSON COUNTY
 SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: DLM
 CHECKED BY: KDB

ELECTRICAL POWER PLAN

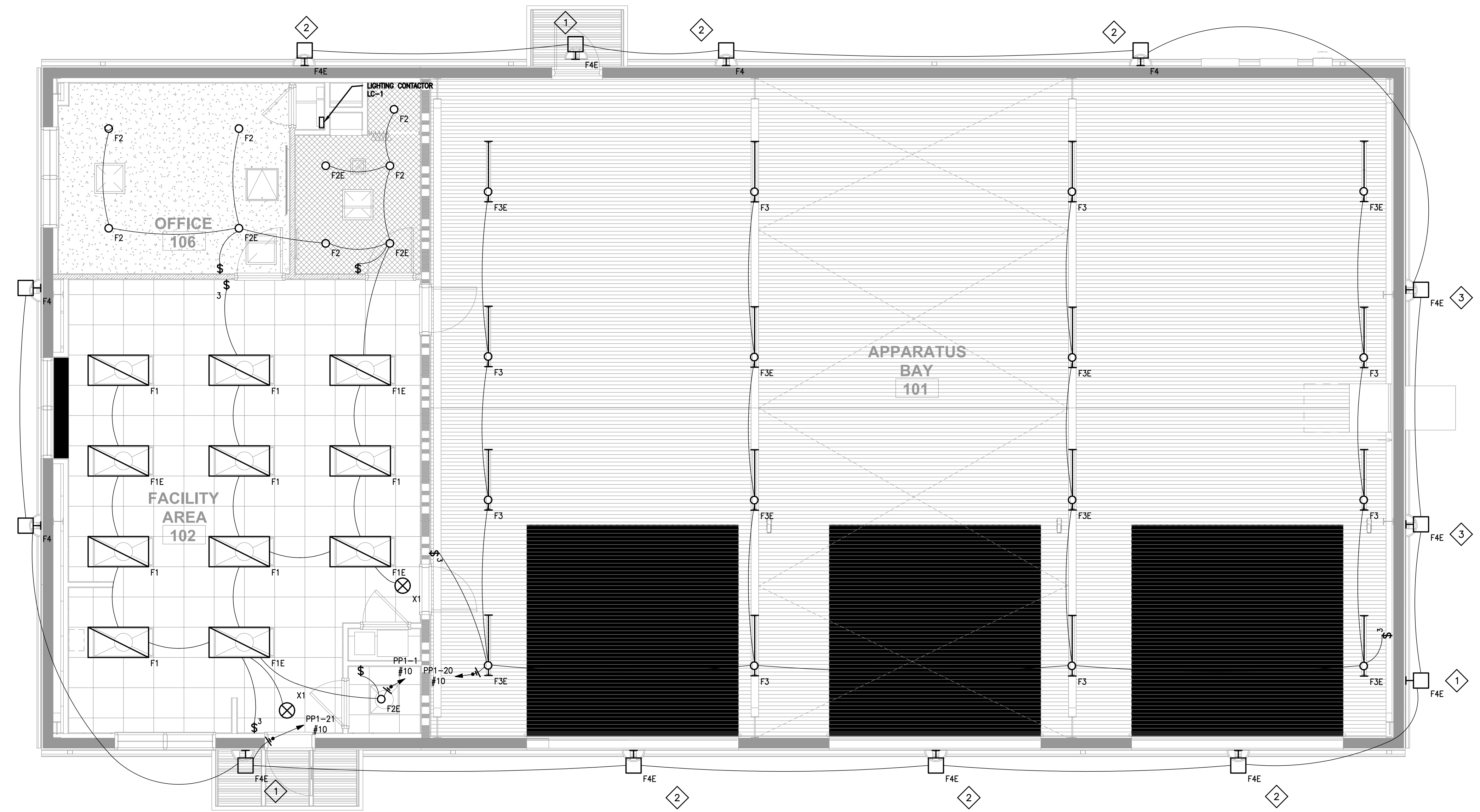
NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

E111

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

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / ANY OTHER OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS, THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

PRINTED: 3/20/2024 1:46 PM BY: Kenneth Beverin LAST SAVED: 2/26/2024 4:19 PM BY: Dmenhennett
 m:\0004_jackson_county\0004.23.001_saracennia_fire_station\06-electrical\02-production\01-production drawings\saracennia_fire_station_electrical.dwg



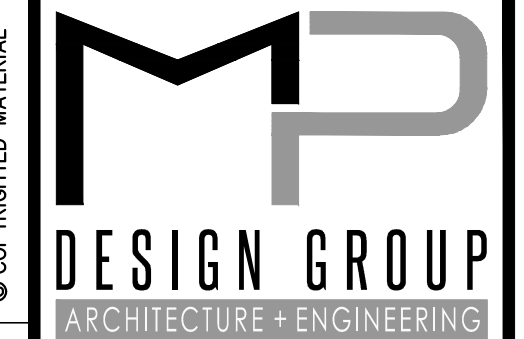
1 ELECTRICAL LIGHTING PLAN
 SCALE: 1/4" = 1'-0"

DRAWING E121 NOTES

1. ALL LIGHTING CIRCUITS SHALL BE #12 AWG UNLESS OTHERWISE NOTED. IF MORE THAN 100'-0" TO THE FIRST CURRENT-CONSUMING DEVICE, THEN CONDUCTOR SHALL BE #10 AWG.
2. REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT MOUNTING LOCATIONS IN ARCHITECTURAL FINISHES.
3. REFERENCE ARCHITECTURAL PLANS FOR EXACT MOUNTING HEIGHTS OF LIGHT FIXTURES.
4. ROUTE CIRCUITS PP1-21 THROUGH THE LIGHTING CONTROL PANEL LC-1.

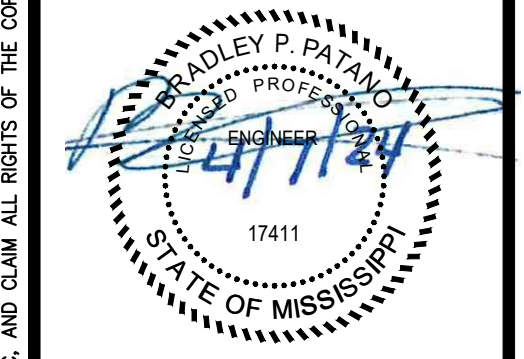
DRAWING E121 SPECIFIC NOTES

- 1 CONTRACTOR SHALL MOUNT FIXTURE AT 8'-0" A.F.F.
- 2 CONTRACTOR SHALL MOUNT FIXTURE AT 17'-4" A.F.F.
- 3 CONTRACTOR SHALL MOUNT FIXTURE AT 14'-0" A.F.F.



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrad W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION
 JACKSON COUNTY
 SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: DLM
 CHECKED BY: KDB

ELECTRICAL LIGHTING PLAN

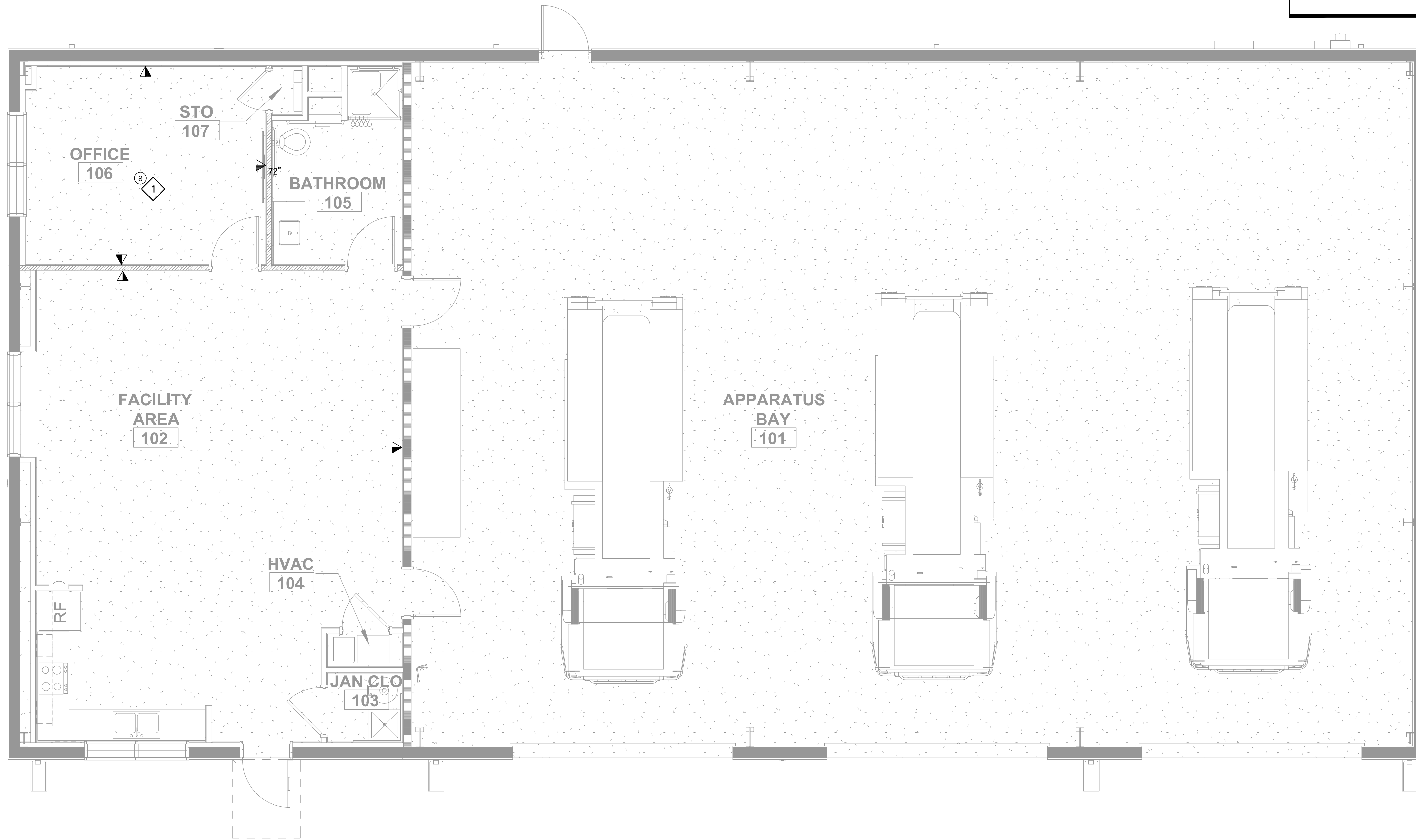
NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

E121
 VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / ANY OTHER OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS, THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

PRINTED: 3/20/2024 11:47 PM BY: Kenneth Beverin LAST SAVED: 2/26/2024 4:19 PM BY: Dmenhennett
 m:\0004_jackson_county\0004.23.001_saracennia_fire_station\06-electrical\02-production\01-production drawings\saracennia_fire_station_electrical.dwg

1 ELECTRICAL SPECIAL SYSTEMS PLAN
 SCALE: 1/4" = 1'-0"

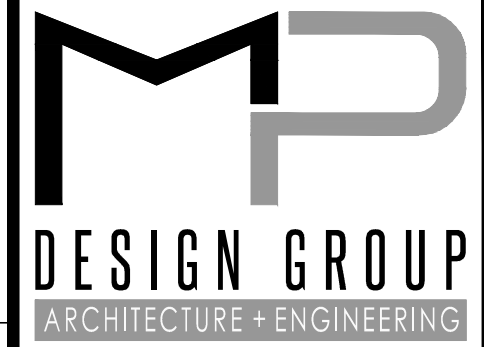


DRAWING E141 NOTES

- INSTALL (2) CAT 6 CABLES IN 3/4" CONDUIT FROM EACH DATA RECEPTACLE BACK TO JUNCTION BOX STUBBED OUT 6" ABOVE CEILINGS.
- INSTALL PULL STRINGS IN ALL EMPTY CONDUITS.
- CAT 6 CABLE SHALL BE THE FOLLOWING COLORS:
 - TELECOMMUNICATION - BLUE

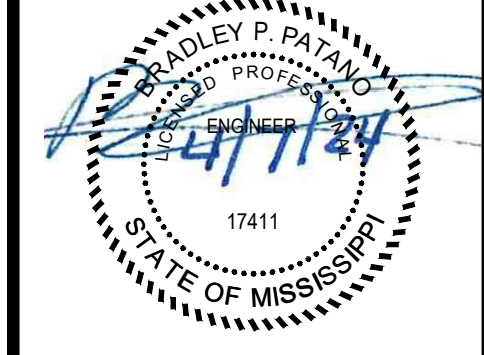
DRAWING E141 SPECIFIC NOTES

1 CONTRACTOR SHALL PROVIDE AND INSTALL CO2/MONOXIDE SMOKE DETECTOR THAT IS HARDWIRED THROUGH THE PANELBOARD PP1.



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrod W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION
 JACKSON COUNTY
 SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: DLM
 CHECKED BY: KDB

ELECTRICAL SPECIAL SYSTEMS PLAN

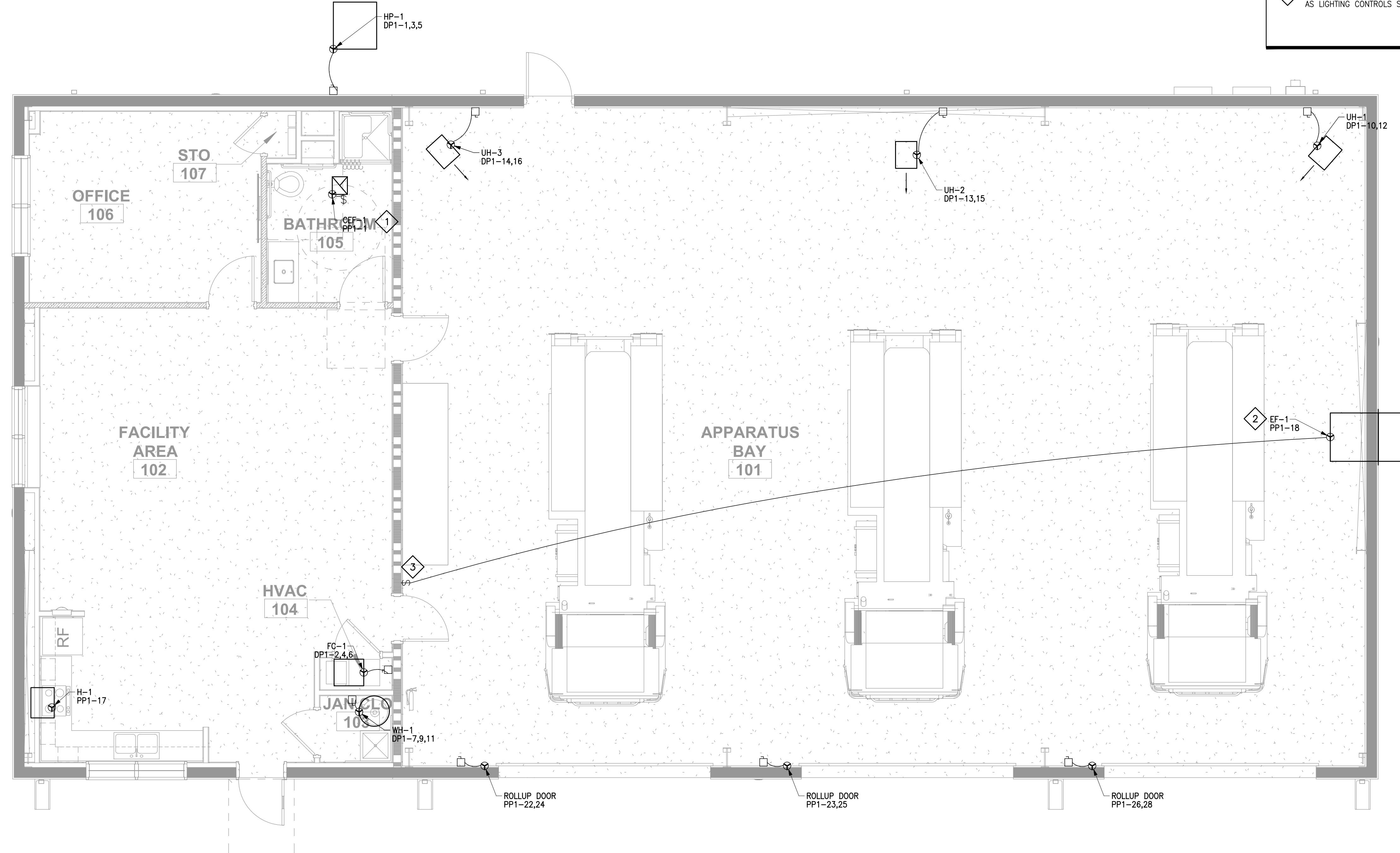
NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

E141

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

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS, THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

PRINTED: 3/20/2024 1:47 PM BY: Kenneth Beverin LAST SAVED: 2/26/2024 4:19 PM BY: Dmenhennett
 m:\0004_jackson_county\0004.23.001_saracennia_fire_station\06-electrical\02-production\01-production drawings\saracennia_fire_station_electrical.dwg



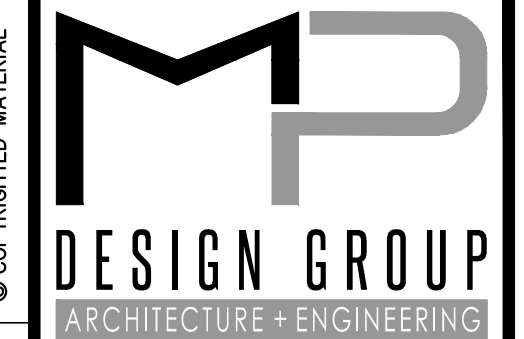
1 MECHANICAL POWER PLAN
 SCALE: 1/4" = 1'-0"

DRAWING E151 NOTES

1. ALL SAFETY SWITCHES SHALL BE PROVIDED AND MOUNTED BY THE E.C. COORDINATE EXACT REQUIREMENTS WITH THE EQUIPMENT MANUFACTURER.
2. COORDINATE EXACT WIRING REQUIREMENTS WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGHING IN.
3. ALL SAFETY SWITCHES SHALL BE HEAVY DUTY. NEMA 1 - INDOORS, NEMA 12/3R - OUTDOORS.
4. ALL SMOKE DUCT DETECTORS AND DAMPER SMOKE DETECTORS SHALL BE PROVIDED AND INSTALLED BY THE CONTROLS CONTRACTOR. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR TYING INTO THE FIRE ALARM SYSTEM. CONTRACTOR SHALL REFERENCE MECHANICAL SHEETS FOR EXACT QUANTITY AND LOCATIONS.

DRAWING E151 SPECIFIC NOTES

1. CONTRACTOR SHALL INTERLOCK CEILING EXHAUST FAN THROUGH LIGHTING SWITCH.
2. CONTRACTOR SHALL PROVIDE AND INSTALL SWITCH FOR EXHAUST FAN. CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT SPECIFICATIONS.
3. SWITCH FOR EXHAUST FAN SHALL BE INCLUDED IN SAME SWITCH PLATE AND JUNCTION BOX AS LIGHTING CONTROLS SWITCH.



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us

David J. Machado, PE
 Brad P. Patano, PE
 Gerrad W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION
 JACKSON COUNTY
 SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: DLM
 CHECKED BY: KDB

MECHANICAL POWER PLAN

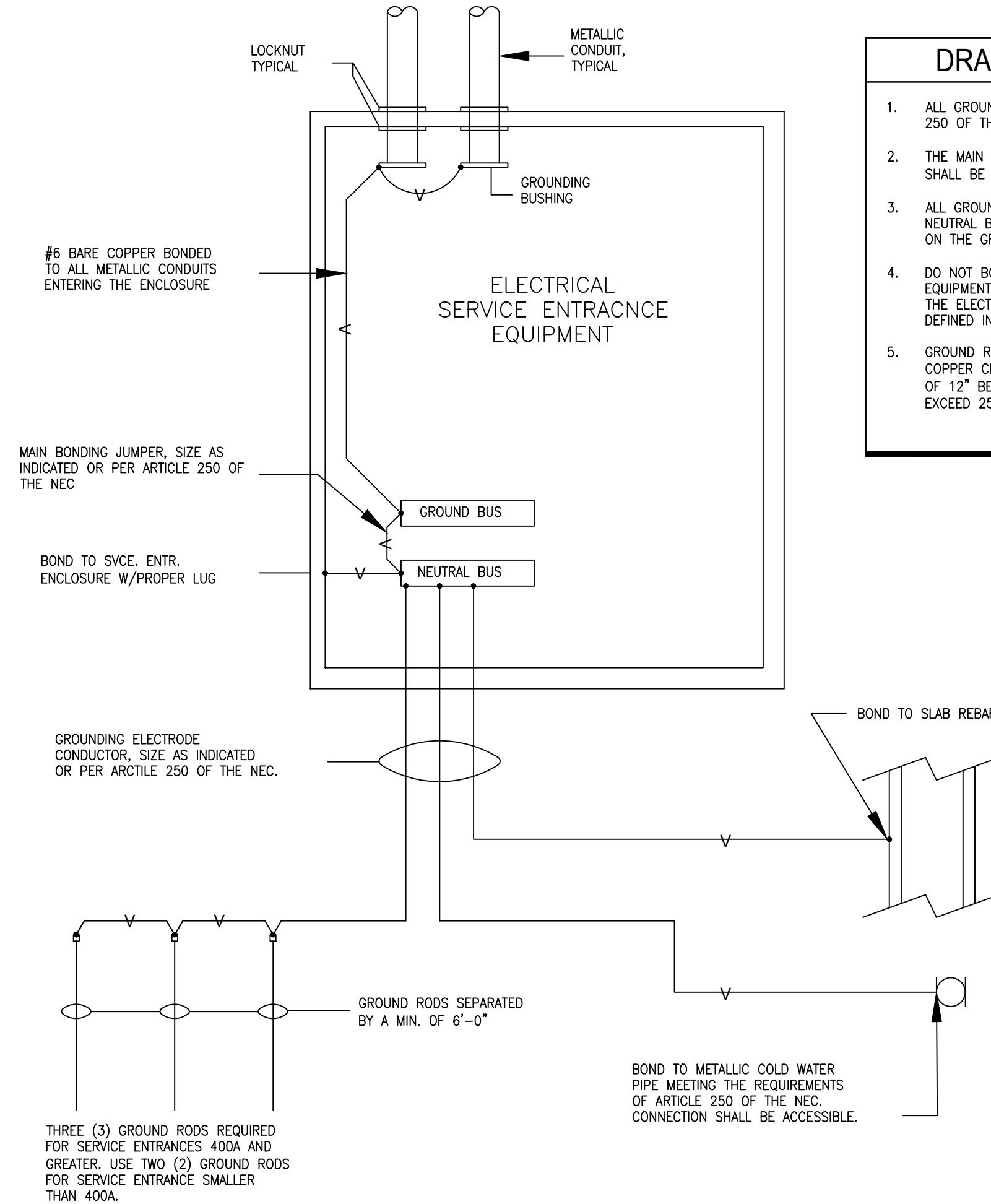
NO.	DATE	REVISION / SUBMITTAL
REV 0	04.07.24	ISSUED FOR CONSTRUCTION

E151

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

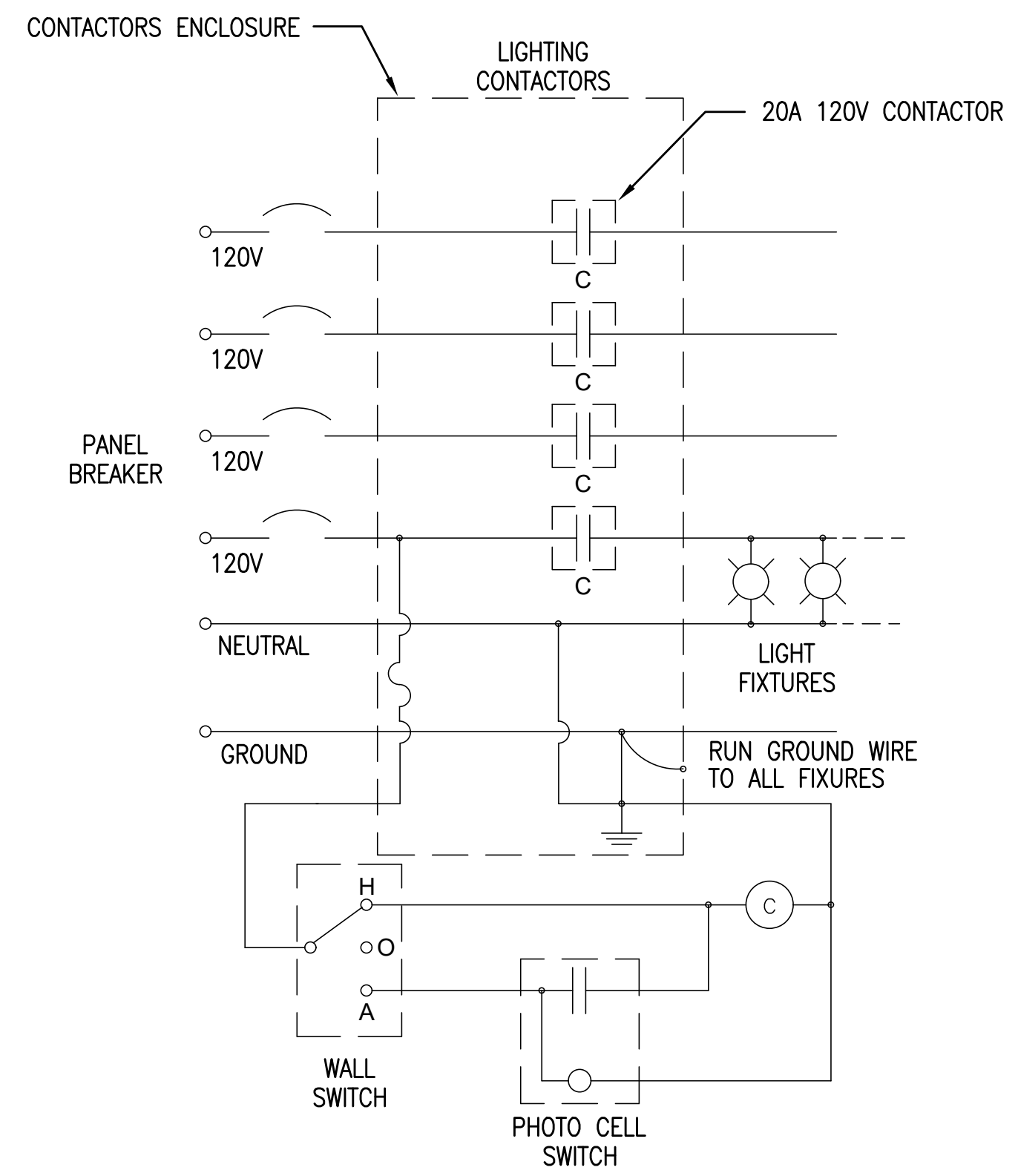
THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / ANY OTHER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS, THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

PRINTED: 3/20/2024 1:47 PM BY: Kenneth Beverin LAST SAVED: 2/26/2024 4:19 PM BY: Dmenhennett
 m:\0004_jackson_county\0004.23.001_saracennia_fire_station\06-electrical\02-production drawings\saracennia_fire_station_electrical.dwg

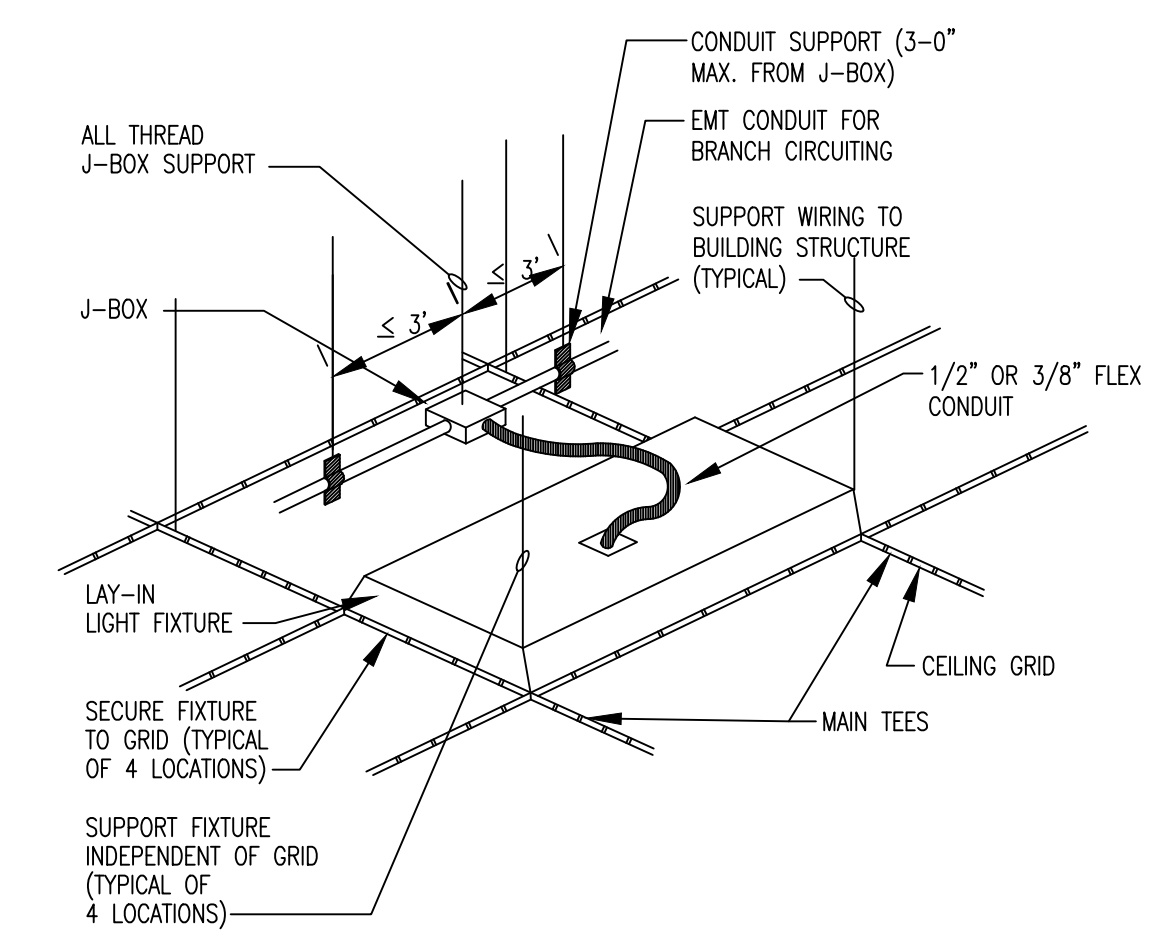


- DRAWING E501 SPECIFIC NOTES**
1. ALL GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH ARTICLE 250 OF THE NEC.
 2. THE MAIN BONDING JUMPER & THE GROUNDING ELECTRODE CONDUCTOR(S) SHALL BE SIZED AS INDICATED AND/OR PER NEC ARTICLE 250.
 3. ALL GROUNDED (NEUTRAL) CONDUCTORS SHALL TERMINATE ON THE NEUTRAL BUS & ALL EQUIPMENT GROUNDING CONDUCTOR SHALL TERMINATE ON THE GROUND BUS. ONE LUG OR TERMINAL PER CONDUCTOR.
 4. DO NOT BOND OR CONNECT THE GROUNDED (NEUTRAL) CONDUCTOR & THE EQUIPMENT GROUNDING CONDUCTOR TOGETHER AT ANY OTHER POINT IN THE ELECTRICAL SYSTEM EXCEPT AT SEPARATELY DERIVED SYSTEMS AS DEFINED IN THE NEC.
 5. GROUND RODS USED FOR GROUNDING ELECTRODE SYSTEMS SHALL BE COPPER CLAD, 3/4"x10" MIN. AND SHALL BE INSTALLED WITH TOP A MIN. OF 12" BELOW FINISHED GRADE. RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS PER NEC.

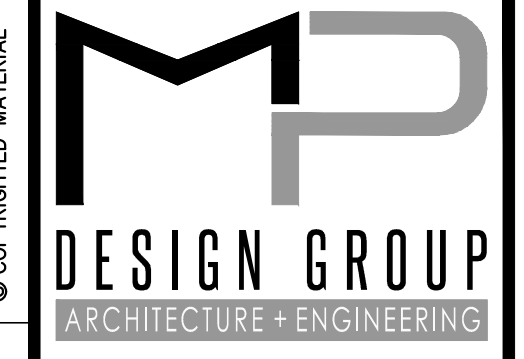
1 GROUNDING AND BONDING DETAIL
 SCALE: 1/4" = 1'



2 LIGHTING CONTACTOR LC-1 DETAIL
 SCALE: NTS



3 LAY IN FIXTURE MOUNTING
 SCALE: 1/4" = 1'



"Designed to Build"
 918 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 228.388.1950
 www.mpdesigngroup.us
 David J. Machado, PE
 Brad P. Patano, PE
 Gerrad W. Kilpatrick, PE
 Bradford A. Jones, AIA



SARACENNIA FIRE STATION
 JACKSON COUNTY
 SARACENNIA RD, MOSS POINT, MS 39562

SCALE: AS INDICATED
 PROJECT NO: 0004.23.001
 DRAWN BY: DLM
 CHECKED BY: KDB

ELECTRICAL GENERAL DETAILS

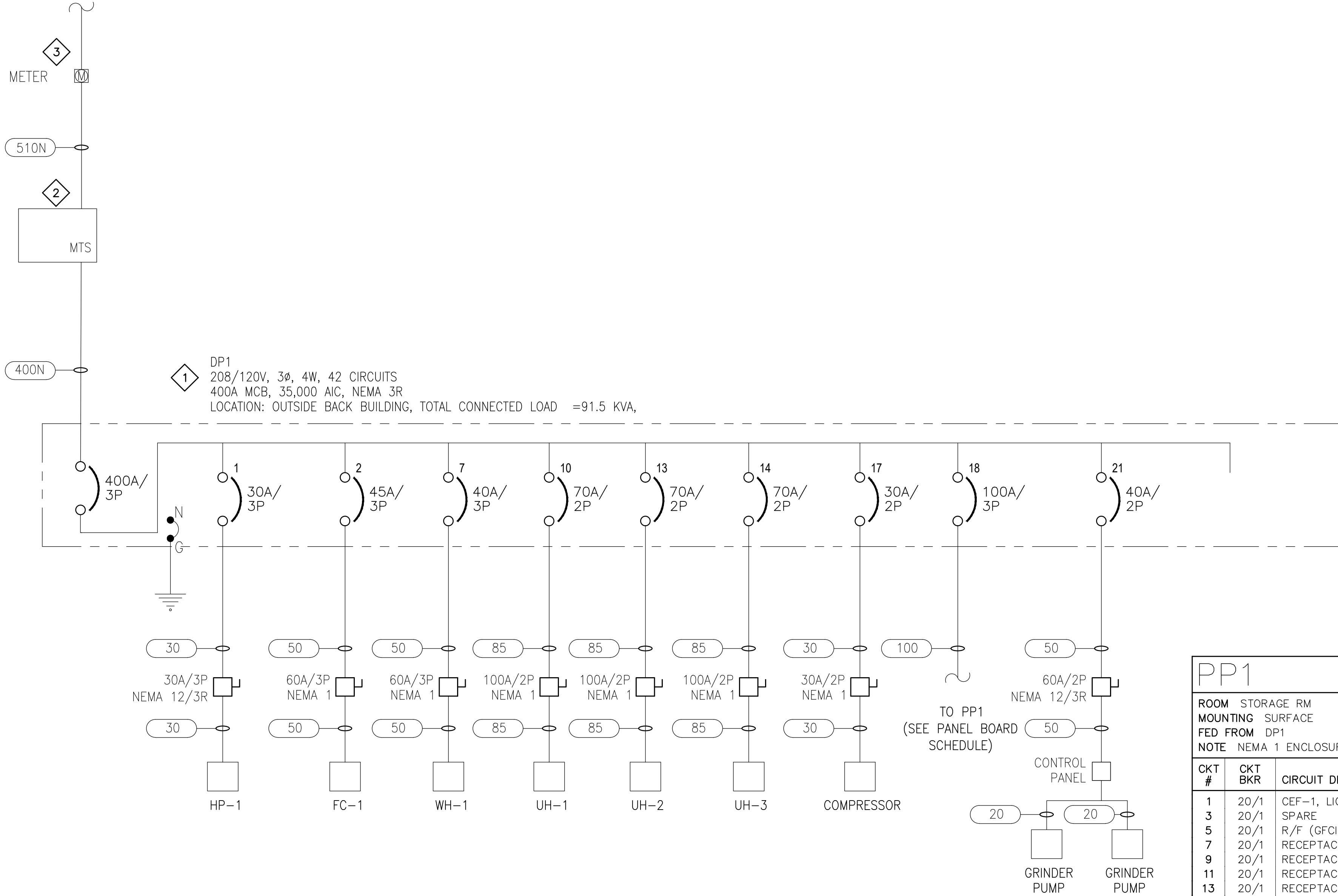
NO.	REVISION / SUBMITTAL	DATE
REV 0	ISSUED FOR CONSTRUCTION	04.07.24

E501
 VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / ANY OTHER OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS, THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL

PRINTED: 3/20/2024 1:48 PM BY: Kenneth Beverin LAST SAVED: 2/26/2024 4:19 PM BY: Dmenhennett
 m:\0004_jackson_county\0004.23.001_saracennia_fire_station\01-production\drawings\saracennia_fire_station_electrical.dwg

TO
UTILITY POLE
(SEE SHEET E101)



DRAWING E601 NOTES

- CONTRACTOR SHALL FIELD COORDINATE EXISTING MOUNTING SPACE FOR NEW PANEL BOARD. CONTRACTOR SHALL PROVIDE AND INSTALL CABLE TROUGHS AS REQUIRED.

DRAWING E601 SPECIFIC NOTES

- CONTRACTOR SHALL PROVIDE AND INSTALL NEW PANEL BOARD. CONTRACTOR SHALL PROVIDE AND INSTALL NEW CIRCUIT BREAKERS TO BE INSTALLED.
- CONTRACTOR SHALL PROVIDE AND INSTALL NEW MTS (MANUAL TRANSFER SWITCH). TRANSFER SWITCH SHALL BE RATED FOR 400 AMP, SERVICE ENTRANCE RATED, 208V, 3 PHASE, 4 WIRE, AND NEMA 3R ENCLOSURE.
- CONTRACTOR SHALL PROVIDE AND INSTALL METER CAN. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY FOR UTILITY PROVIDED METER.

PP1

ROOM	STORAGE RM	VOLTS	208Y/120V 3P 4W	AIC	22,000
MOUNTING SURFACE		BUS AMPS	100	MAIN BKR	100
FED FROM	DP1	NEUTRAL	100%	LUGS	STANDARD
NOTE	NEMA 1 ENCLOSURE				

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	CEF-1, LIGHTING	0.639			2	20/1	RECEPTACLE	0.18		
3	20/1	SPARE		0		4	20/1	RECEPTACLE		0.18	
5	20/1	R/F (GFCI BREAKER)			0.8	6	20/1	RECEPTACLE			0.18
7	20/1	RECEPTACLE	0.54			8	40/1	OVEN (GFCI BREAKER)	3		
9	20/1	RECEPTACLE		0.54		10	20/1	RECEPTACLE, TV REC		0.72	
11	20/1	RECEPTACLE			0.18	12	20/1	RECEPTACLE			0.18
13	20/1	RECEPTACLE	0.54			14	20/1	RECEPTACLE	0.54		
15	20/1	RECEPTACLE		0.36		16	20/1	RECEPTACLE		0.36	
17	20/1	H-1			1	18	20/1	EF-1			1.18
19	20/1	SPARE	0			20	20/1	LIGHTING	1.14		
21	20/1	LIGHTING		0.16		22	20/2	ROLLUP DOOR		0.96	
23	20/2	ROLLUP DOOR			0.96	24	20/2	ROLLUP DOOR			0.96
25			0.96			26	20/2	ROLLUP DOOR	0.96		
27	20/1	CORD REELS		1.8		28				0.96	
29	20/1	CORD REELS			1.8	30	20/1	CORD REELS			1.8
31	20/1	SPARE	0			32	20/1	SPARE	0		
33	20/1	SPARE		0		34	20/1	SPARE		0	
35	20/1	SPARE			0	36	20/1	SPARE			0
37	20/1	SPARE	0			38	20/1	SPARE	0		
39	20/1	SPARE			0	40	20/1	SPARE		0	
41	20/1	SPARE			0	42	20/1	SPARE			0
			TOTAL CONNECTED KVA BY PHASE						8.5	6.04	9.04
			TOTAL CONNECTED AMPS BY PHASE						70.8	50.3	75.3
			CONN KVA	CALC KVA		CONN KVA	CALC KVA				
LIGHTING			1.92	2.4	(125%)	MOTORS	13.4	13.4	(100%)		
LARGEST MOTOR			1.92	0.48	(25%)	RECEPTACLES	8.3	8.3	(50%>10)		
			TOTAL LOAD						24.5		
			BALANCED 3-PHASE LOAD						68.1 A		

MP DESIGN GROUP
ARCHITECTURE + ENGINEERING

"Designed to Build"

918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

David J. Machado, PE
Brad P. Patano, PE
Gerrod W. Kilpatrick, PE
Bradford A. Jones, AIA

SARACENNIA FIRE STATION

JACKSON COUNTY

SARACENNIA RD, MOSS POINT, MS 39562

SCALE: NTS

PROJECT NO: 0004.23.001

DRAWN BY: DLM

CHECKED BY: KDB

ELECTRICAL ONE-LINE DIAGRAM

NO.	REVISION / SUBMITTAL	DATE	ISSUED FOR CONSTRUCTION
REV 0		04/07/24	

E601

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / ANY OTHER OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL OVERRIDE ANY OTHER PLANS, THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, PLLC, AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS. © COPYRIGHTED MATERIAL