



# NEW POLICE STATION FOR: THE CITY OF COTTONDALE PART A1 -- FRONT STREET, COTTONDALE, FLORIDA

## CITY OFFICIALS

MAYOR ■ JAMES ELMORE  
 MAYOR PRO-TEN ■ CURTIS BENNEFIELD  
 COMMISSIONER ■ DENNIS SLOAN  
 COMMISSIONER ■ TY DANIELS  
 COMMISSIONER ■ JERRARD DEESE  
 CITY CLERK ■ SHERRI MCBRIDE

## PROJECT INFORMATION

OCCUPANCY CLASSIFICATION — GROUP "B" — BUSINESS  
CONSTRUCTION TYPE — TYPE (II) B  
BUILDING SQUARE FOOTAGE — 2,532 G.S.F.  
OCCUPANT LOAD — (1) PERSON / 100 G.S.F. = (25) PERSONS  
MIN. # OF EXITS — (2) REQUIRED — (2) PROVIDED  
EXIT ACCESS TRAVEL DISTANCE — NOT TO EXCEED 200' — COMPLY  
CORRIDOR FIRE RESISTANCE RATING — NOT REQUIRED — NOT PROVIDED  
AUTOMATIC FIRE PROTECTION — NOT REQUIRED — NOT PROVIDED  
SPRINKLER SYSTEM  
FIRE ALARM SYSTEM — NOT REQUIRED — NOT PROVIDED  
PORTABLE FIRE EXTINGUISHERS — REQUIRED — PROVIDED

## PROJECT DESIGN LOADS

ROOF LIVE LOAD — 50 PSF  
WIND LOAD CRITERIA — BUILDING RISK CATEGORY — IV  
 (AS PER. ASCE — 7.22) ULTIMATE WIND SPEED — 160 MPH (V) ULT.  
 EXPOSURE CATEGORY — EXPOSURE (C)  
 INTERNAL PRESSURE COEFFICIENT — +/- 0.55 (GPCI)  
 (PARTIALLY ENCLOSED)

## PROJECT ABBREVIATIONS

A/C	AIR CONDITIONING	ELEV	ELEVATION
AFF	ABOVE FINISH FLOOR	ELEC	ELECTRICAL
ALUM	ALUMINUM	EOR	EDGE OF ROOF
CONC	CONCRETE	GALV	GALVANIZED
COND	CONDENSING	HVAC	HEATING, VENTILATION, & A/C
CONN	CONNECTION	MTD.	MOUNTED
CONT	CONTINUOUS	N.I.C.	NOT IN CONTRACT
CORR	CORRIDOR	RD	ROOF DRAIN
DET	DETAIL	SCHED	SCHEDULE
DWG	DRAWING	SHT	SHEET
EF	EXHAUST FAN	SIM	SIMILAR
		TYP	TYPICAL
		UNO	UNLESS NOTED OTHERWISE

## PROJECT DIRECTORY

OWNER ■ CITY OF COTTONDALE  
 2659 FRONT ST. COTTONDALE, FLORIDA  
 (850) 352-4361

OWNER REPRESENTATIVES ■ POLICE CHIEF — CHIEF RICHARD CARLEY  
 CITY CLERK — SHERRI MCBRIDE  
 (850) 352-4361

PROGRAM MANAGER ■ D.H.M./MELVIN ENGINEERING  
 4428 LAFAYETTE ST. MARIANNA, FLORIDA  
 (850) 482-3045

DESIGN ARCHITECT ■ DONOFRO ARCHITECTS  
 2910 CALEDONIA ST. MARIANNA, FLORIDA  
 (850) 482-5261

ARCHITECT OF RECORD ■ DONOFRO ARCHITECTS  
 2910 CALEDONIA ST. MARIANNA, FLORIDA  
 (850) 482-5261

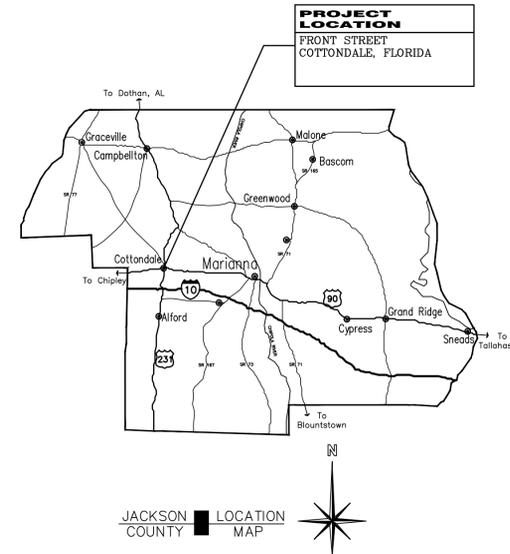
CIVIL ENGINEER ■ D.H.M./MELVIN ENGINEERING  
 4428 LAFAYETTE ST. MARIANNA, FLORIDA  
 (850) 482-3045

STRUCTURAL ENGINEER ■ D.H.M./MELVIN ENGINEERING  
 2541-1 BARRINGTON CIRCLE TALLAHASSEE, FLORIDA  
 (850) 671-7221

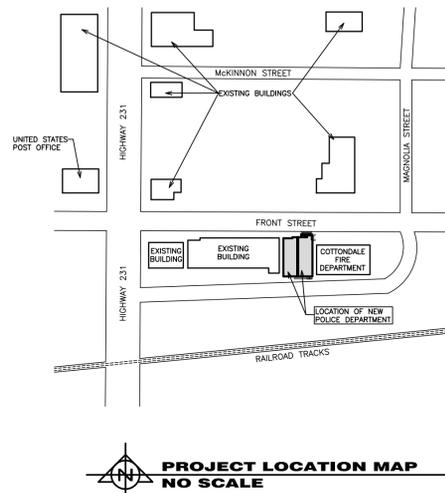
MECHANICAL ENGINEER ■ WATFORD ENGINEERING INC.  
 4471 CLINTON ST. MARIANNA, FLORIDA  
 (850) 526-3447

ELECTRICAL ENGINEER ■ WATFORD ENGINEERING INC.  
 4471 CLINTON ST. MARIANNA, FLORIDA  
 (850) 526-3447

GENERAL CONTRACTOR ■ T.B.D.



INDEX TO DRAWINGS		
SECTION NAME	SHT. No.	CONTENTS
COVER		PROJECT LOCATION MAP * PROJECT DIRECTORY * PROJECT INFORMATION
CIVIL		
ARCHITECTURAL	A-1.0	FLOOR PLAN * LEGEND * CONSTRUCTION NOTES * DETAILS
	A-1.1	LIFE SAFETY FLOOR PLAN * LEGEND
	A-2.0	SCHS * INT. ELEVATIONS * DOOR & WDW TYPES * ENLARGED PARTIAL FLOOR PLANS
	A-3.0	EXTERIOR ELEVATIONS * DETAILS
	A-4.0	ROOF PLAN * REFLECTED CEILING PLAN * R.C.P. LEGEND
	A-5.0	TRANSVERSE SECTION
	A-5.1	WALL SECTIONS * DETAILS
	A-5.2	CONSTRUCTION SECTIONS * DETAILS
	A-5.3	CONSTRUCTION SECTIONS * DETAILS
	A-5.4	CONSTRUCTION SECTIONS * DETAILS
	A-6.0	CEILING INSULATION PLAN * LEGEND * REFLECTED CEILING PLAN * LEGEND *
STRUCTURAL	S-0.1	
	S-0.2	
	S-0.3	
	S-1.1	
PLUMBING	P-0.1	PLUMBING LEGEND, SCHEDULE, NOTES & DETAILS
	P-0.2	PLUMBING SPECIFICATIONS & DETAILS
	P-1.0	PLUMBING FLOOR PLANS
	P-2.0	PLUMBING RISER DIAGRAMS
MECHANICAL	M-0.1	HVAC LEGEND, SCHEDULES & NOTES
	M-1.0	HVAC NEW WORK FLOOR PLAN
	M-2.0	HVAC DETAILS
	M-2.1	HVAC DETAILS
ELECTRICAL	E-0.1	ELECTRICAL LEGEND, GENERAL NOTES, & DETAILS
	E-0.2	LIGHTING FIXTURE SCHEDULE & DETAILS
	E-1.1	ELECTRICAL POWER PLAN
	E-1.2	ELECTRICAL LIGHTING PLAN
	E-1.3	FIRE ALARM PLAN
FIRE PROTECT.	FP-1.0	FIRE PROTECTION FLOOR PLAN



THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE, REPRODUCTION, OR MODIFICATION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF DONOFRO ARCHITECTS IS STRICTLY PROHIBITED AND SUBJECT TO LEGAL ACTION.

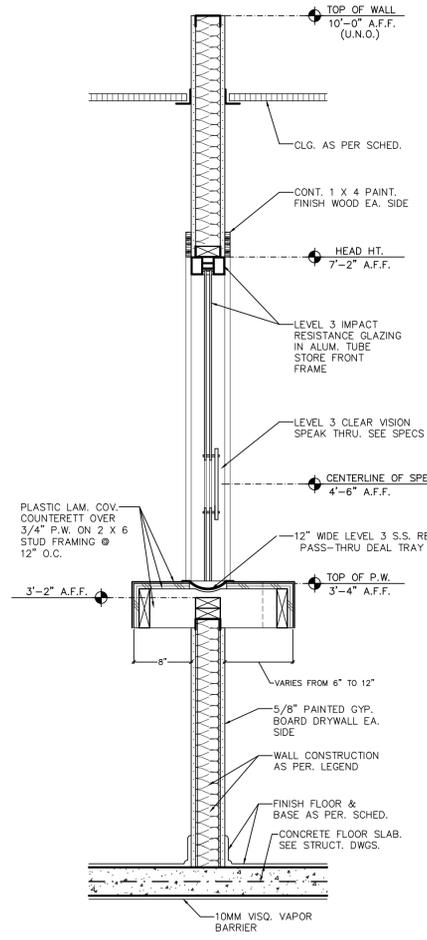
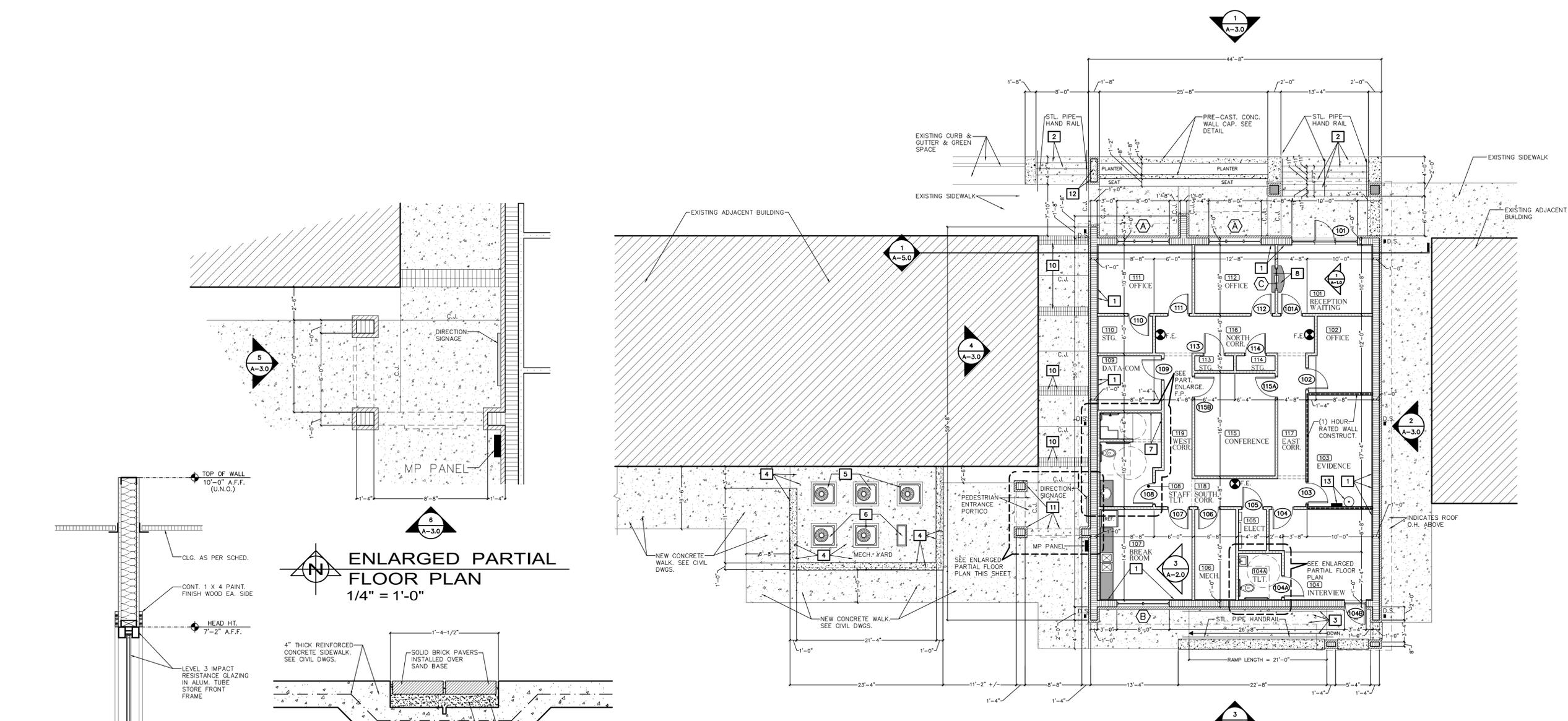
**DONOFRO ARCHITECTS**  
 2910 CALEDONIA ST.  
 MARIANNA, FL 32447  
 OFFICE: (850) 482-5261  
 P.O. BOX 861  
 MARIANNA, FL 32447  
 FAX: (850) 482-8609



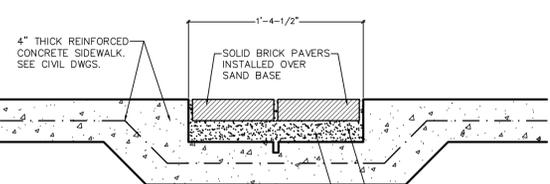
SHEET FLOOR PLAN \* LEGEND \* NOTES  
 TITLE:  
 FOR:  
**NEW POLICE STATION**  
 THE CITY OF COTTONDALE  
 FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
 DATE: OCT. 31, 2025  
 DRAWN BY: C.L.D.  
 CHECKED BY: P.A.D., JR.

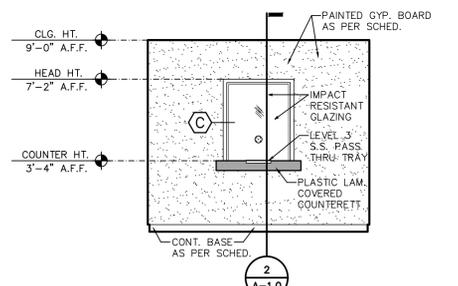
SHEET No.  
**A-1.0**



**ENLARGED PARTIAL FLOOR PLAN**  
 1/4" = 1'-0"



**PAVER DETAIL**  
 1/8" = 1'-0"



**INTERIOR ELEVATION**  
 1/4" = 1'-0"  
 101 WEST WALL

**INTERIOR WALL SECTION**  
 1" = 1'-0"

**CONSTRUCTION NOTES**

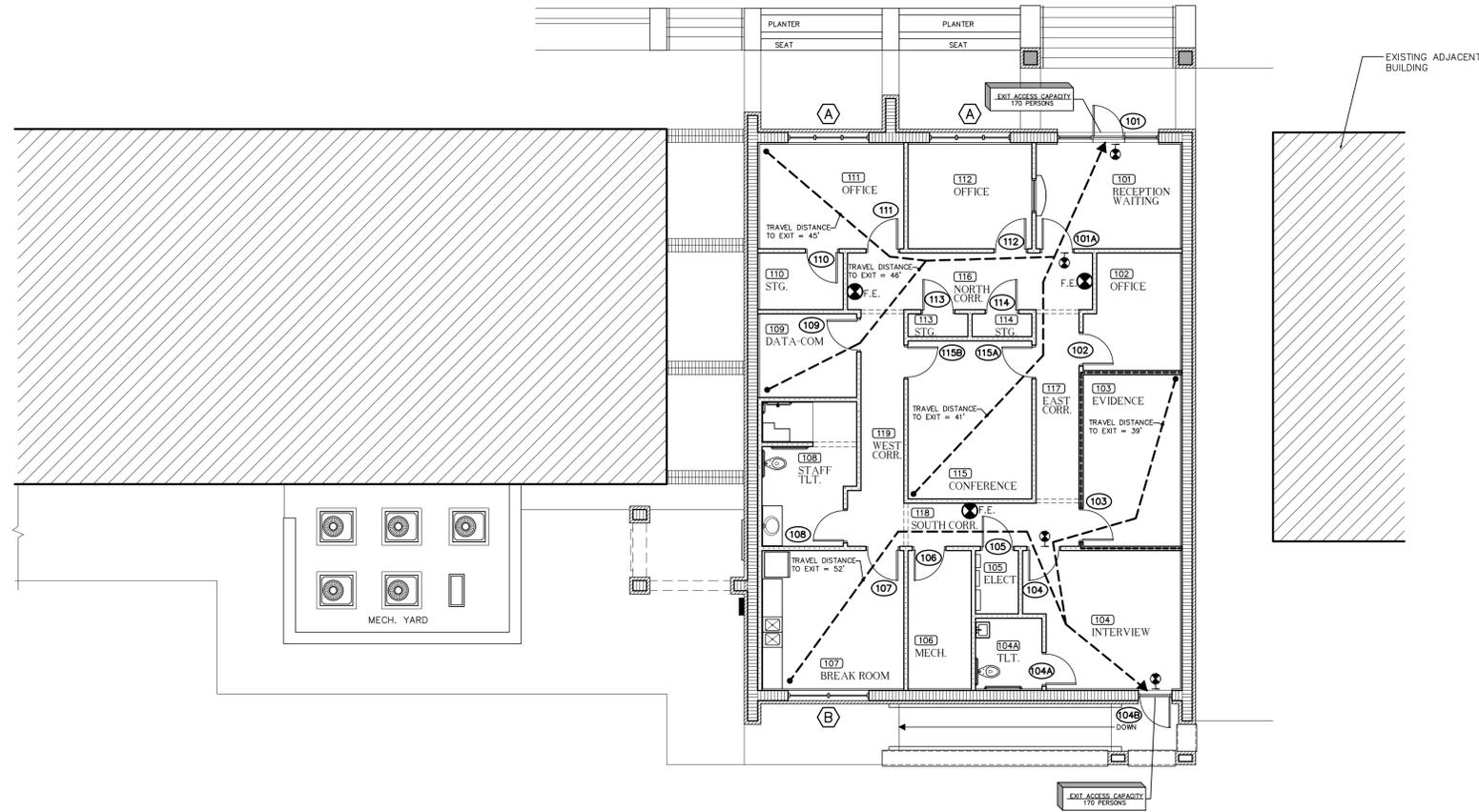
- 1 UNLESS NOTED OR SHOWN OTHERWISE @ INTERIOR SIDE OF ALL EXTERIOR WALLS PROVIDE & INSTALL NEW PAINTED 5/8" GYP BOARD DRYWALL ON 1.5" MITL "Z" FURRING STRIPS @ 16" O.C. W/ 1.5" THICK RIGID INSULATION BOARD FULL HEIGHT OF WALL.
- 2 CONSTRUCT NEW C.I.P. CONCRETE STEPS W/ 7" RISERS & 11" TREAD. PROVIDE 1-1/2" DIA. POWDER COATED STEEL PIPE HANDRAIL AS SHOWN @ 3'-0" ABOVE LEADING EDGE OF STAIR TREAD.
- 3 CONSTRUCT NEW C.I.P. CONCRETE WHEEL CHAIR ACCESS H/C RAMP W/ 1-1/2" DIA. POWDER COATED STEEL PIPE HANDRAIL @ 3'-0" ABOVE RAMP PLANE. SEE SECTIONS.
- 4 CONSTRUCT NEW CONCRETE & MASONRY MECHANICAL YARD & SCREEN AS PER FLOOR PLAN, ELEVATIONS, & SECTIONS.
- 5 APPROX. LOCATION OF EXIST. HVAC CONDENSER UNITS TO BE RELOCATED FROM CURRENT LOCATION TO INSIDE THE NEW MECHANICAL YARD BY INDEPENDENT CONTRACTOR ENGAGED BY CITY OF COTTONDALE.
- 6 APPROX. LOCATION OF NEW HVAC UNITS. SEE MECHANICAL & ELECTRICAL DRAWINGS. ROUTE REFRIGERATE LINES FROM MECHANICAL YARD TO INDOOR UNITS IN UNDERGROUND P.V.C. SLEEVES AS PER MECHANICAL DWGS.
- 7 INSTALL CERAMIC WALL TILE @ ALL FOUR WALLS OF SHOWER COMPARTMENT FROM FLOOR TO CEILING.
- 8 CONSTRUCT NEW PLASTIC LAM COVERED COUNTERETT @ TRANSACTION WINDOW AS PER INTERIOR ELEVATIONS & DETAILS.
- 9 WALL TYPE THIS SHEET INDICATES (1) HR. RATED WALL CONSTRUCTION / ASSEMBLY EXTEND WALL CONSTRUCTION UP TO BOTTOM OF ROOF DECK
- 10 CONSTRUCT NEW SOLID BRICK PAVER BANDS @ NEW SIDEWALK AS PER DETAIL 1/A-1.0 THIS SHEET.
- 11 CONSTRUCT NEW CONCRETE & MASONRY ENTRANCE PORTAL AS PER ENLARGED PARTIAL PLAN, ELEVATIONS, & DETAILS. SEE STRUCTURE DWGS. FOR FOOTINGS & REINFORCEMENT.
- 12 CONSTRUCT NEW CONCRETE, MASONRY, C.F.S., & EIFS VERTICAL IDENTIFICATION SIGN AS PER ELEVATIONS, DETAILS, & STRUCTURAL DWGS.
- 13 H.F.C. FIRE SUPPRESSION SYSTEM STORAGE CANISTER & CONTROL PANEL. SEE FIRE PROTECTION DRAWINGS FOR LIMITS OF PROTECTED AREA.

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

**FLOOR PLAN LEGEND**

#	ROOM FINISH SCHEDULE REFERENCE SYMBOL	NEW C.F.S. STUD FRAMED INTERIOR WALL CONSTRUCTION. 3.5" X 20GA. C.F.S. STUDS @ 16" O.C. W/ 5/8" GYP. BOARD EA. SIDE & 3.5" FIBERGLASS SOUND BATTS IN STUD CAVITY. EXTEND WALL UP TO 10'-0" A.F.F. U.N.O.
#	WINDOW SCHEDULE REFERENCE SYMBOL	NEW 12" C.M.U. EXTERIOR WALL CONSTRUCTION. SEE STRUCT. DWGS. FOR REINFORCEMENT.
#	DOOR SCHEDULE REFERENCE SYMBOL	NEW (1)HR. RATED C.F.S. STUD FRAMED INTERIOR WALL CONSTRUCTION. 3.5" X 18GA. C.F.S. STUDS @ 16" O.C. W/ TYPE "X" FIRE CODE 5/8" GYP. BOARD EA. SIDE & 3.5" FIBERGLASS SOUND BATTS. IN STUD CAVITY. EXTEND WALL CONSTRUCTION UP TO ROOF DECK.
#	GENERAL CONSTRUCTION NOTE REF. SYMBOL SEE SHEET A-1.1	
⊙ F.E.	WALL MTD. 10 LB. CAPACITY FIRE EXTINGUISHER	NEW REINFORCED CONC. PAD, APRON, RAMP, OR WALK
+ W.H.	WALL HYDRANT. SEE PLUMBING DWGS.	
■ D.S.	DOWNSPOUT LEADER LOCATION	EXTERIOR ELEVATION REFERENCE SYMBOL
		INTERIOR ELEVATION REFERENCE SYMBOL

**100% COMPLETE**  
**BID DOCUMENTS**  
 DONOFRO ARCHITECTS  
 NOT FOR CONSTRUCTION  
 OCTOBER 31ST, 2025



**LIFE SAFETY INFORMATION**

OCCUPANCY CLASSIFICATION — GROUP "B" — BUSINESS

CONSTRUCTION TYPE — TYPE (II) B

BUILDING SQUARE FOOTAGE — 2,532 G.S.F.

OCCUPANT LOAD — (1) PERSON / 100 G.S.F. = (25) PERSONS

MIN. # OF EXITS — (2) REQUIRED - (2) PROVIDED

EXIT ACCESS TRAVEL DISTANCE — NOT TO EXCEED 200' - COMPLY

CORRIDOR FIRE RESISTANCE RATING — NOT REQUIRED - NOT PROVIDED

AUTOMATIC FIRE PROTECTION — NOT REQUIRED - NOT PROVIDED

SPRINKLER SYSTEM

FIRE ALARM SYSTEM — NOT REQUIRED - NOT PROVIDED

PORTABLE FIRE EXTINGUISHERS — REQUIRED - PROVIDED

**LIFE SAFETY FLOOR PLAN**  
 1/8" = 1'-0"

**LIFE SAFETY LEGEND**

	WALL MTD. EMERGENCY EXIT LIGHT. SEE ELECT. DWGS.		FIRE ALARM SYSTEM STROBE. SEE ELECT. DWGS.
	CEILING MTD. EMERGENCY EXIT LIGHT. SEE ELECT. DWGS.		FIRE ALARM SYSTEM SIGNAL SPEAKER/STROBE. SEE ELECT. DWGS.
	WALL MTD. DIRECTIONAL EMERGENCY EXIT LIGHT		FIRE ALARM SYSTEM MANUAL PULL STATION. SEE ELECT. DWGS.
	CEILING MTD. FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR. SEE ELECT. DWGS.		INDICATE'S MAXIMUM TRAVEL DISTANCE
	CEILING MTD. AUTOMATIC HEAT DETECTOR. SEE ELECT. DWGS.		
	WALL MTD. 10 LB. CAPACITY FIRE EXTINGUISHER		

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE, REPRODUCTION, OR DISTRIBUTION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF DONOFRO ARCHITECTS IS STRICTLY PROHIBITED. DONOFRO ARCHITECTS

**DONOFRO ARCHITECTS**

2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261

P.O. BOX 861  
MARIANNA, FL 32447  
FAX: (850) 482-8609

SHEET TITLE: LIFE SAFETY FLOOR PLAN \* LEGEND

FOR: NEW POLICE STATION

FOR: THE CITY OF COTTONDALE

FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13

DATE: OCT. 31, 2025

DRAWN BY: C.L.D.

CHECKED BY: P.A.D., JR.

100% COMPLETE

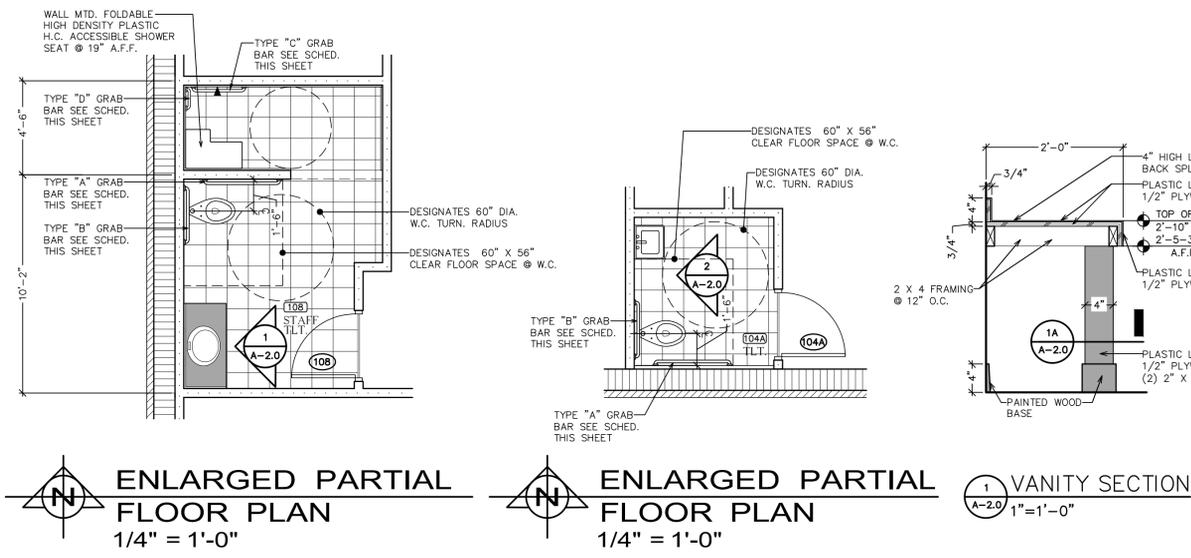
**B I D D O C U M E N T S**

DONOFRO ARCHITECTS

NOT FOR CONSTRUCTION  
OCTOBER 31ST, 2025

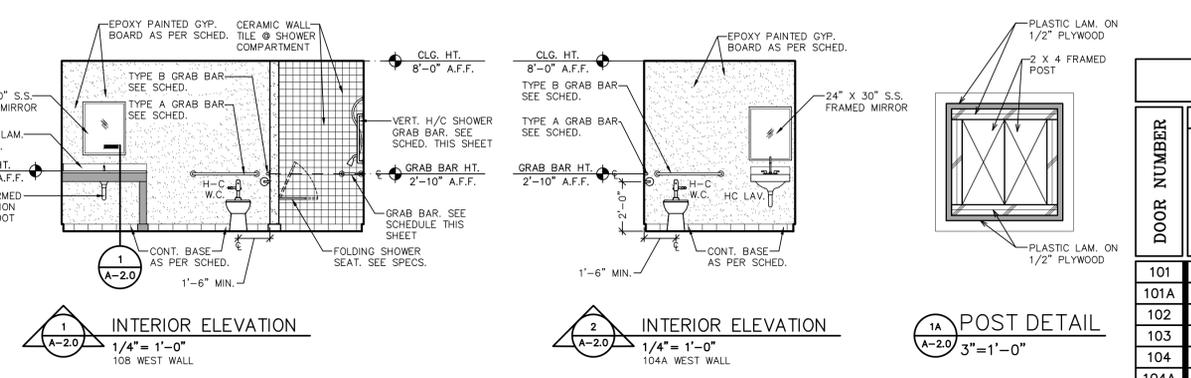
SHEET No.

**A-1.1**



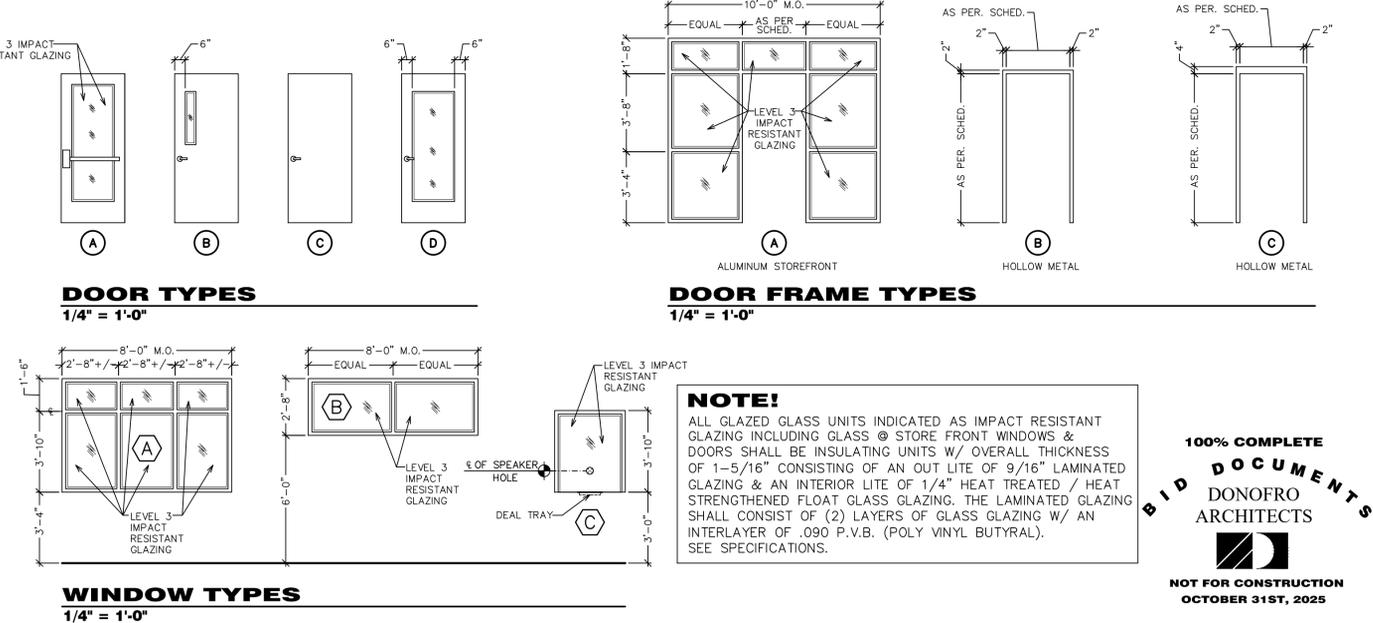
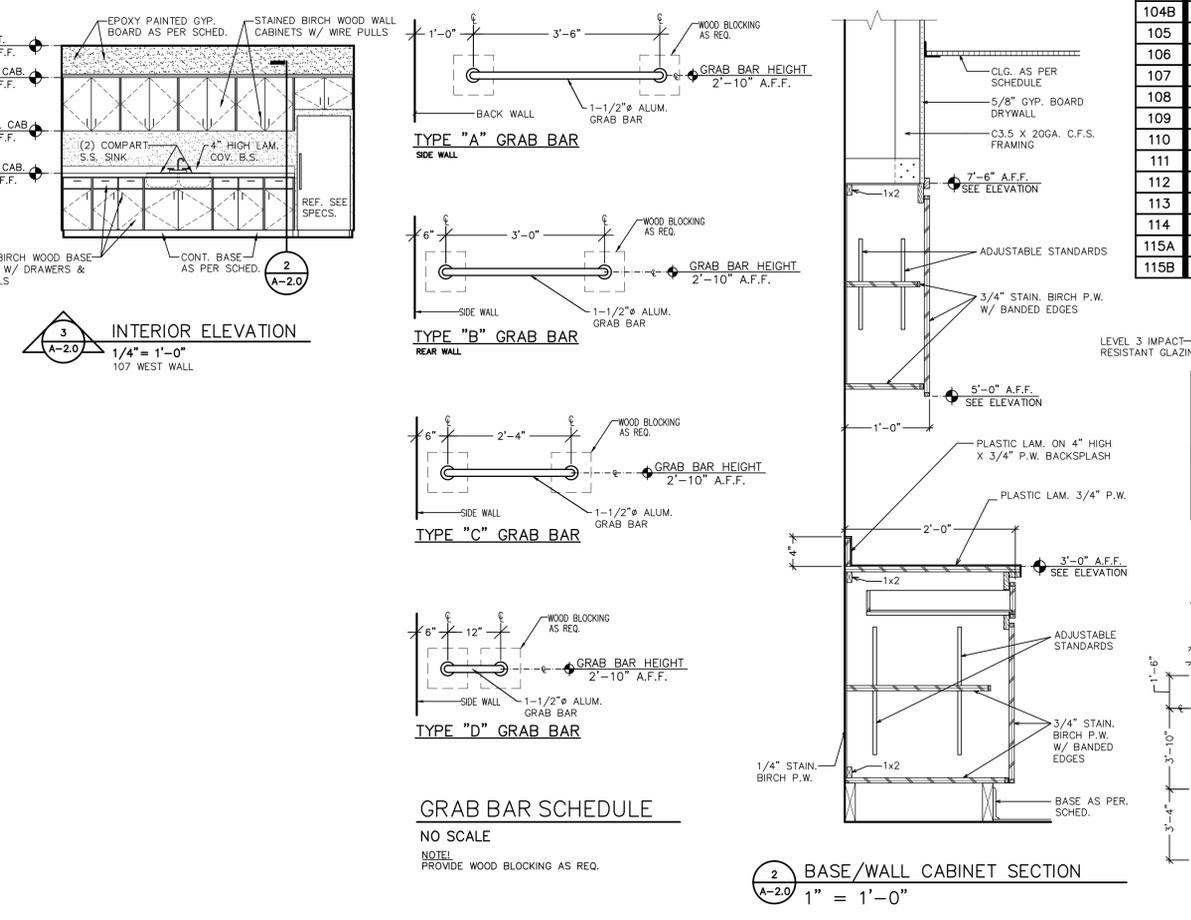
### ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOORING		BASE		WALLS		CEILING		CEILING HEIGHT	REMARKS	ROOM NUMBER				
		CARPET TILE	SOLID VINYL PLANK L.V.P. TILE	CERAMIC TILE	SEALED CONC.	SHEET VINYL	RUBBER	WOOD PAINTED	CERAMIC TILE				PAINTED GYP. BOARD	PAINTED C.U.L.	EXPOSED GYP. BOARD	CERAMIC TILE
101	RECEPTION / WAITING									9'-0" A.F.F.		101				
102	OFFICE									9'-0" A.F.F.		102				
103	EVIDENCE									9'-0" A.F.F.		103				
104	INTERVIEW									9'-0" A.F.F.		104				
104A	TOILET ROOM									8'-0" A.F.F.		104A				
105	ELECTRICAL									8'-0" A.F.F.		105				
106	MECHANICAL									AS REQ. FOR HVAC	PROVIDE 18GA. C.F.S. CLG. JOISTS @ 16" O.C.	106				
107	BREAK ROOM									9'-0" A.F.F.		107				
108	STAFF TOILET									8'-0" A.F.F.	CERAMIC WALL TILE @ SHOWER COMPARTMENT	108				
109	DATA-COM									9'-0" A.F.F.	PROVIDE 18GA. C.F.S. CLG. JOISTS @ 16" O.C.	109				
110	STORAGE									8'-0" A.F.F.		110				
111	OFFICE									9'-0" A.F.F.		111				
112	OFFICE									9'-0" A.F.F.		112				
113	STORAGE									8'-0" A.F.F.	PROVIDE 18GA. C.F.S. CLG. JOISTS @ 16" O.C.	113				
114	STORAGE									8'-0" A.F.F.	PROVIDE 18GA. C.F.S. CLG. JOISTS @ 16" O.C.	114				
115	CONFERENCE									9'-0" A.F.F.		115				
116	NORTH CORRIDOR									9'-0" A.F.F.		116				
117	EAST CORRIDOR									9'-0" A.F.F.		117				
118	SOUTH CORRIDOR									9'-0" A.F.F.		118				
119	WEST CORRIDOR									9'-0" A.F.F.		119				



### DOOR SCHEDULE

DOOR NUMBER	DOOR SIZE			DOOR DESCRIPTION	DOOR TYPE	FRAME DESCRIPTION			HARDWARE			REMARKS	SIGNAGE		DOOR NUMBER
	WIDTH	HEIGHT	THICKNESS			FRAME TYPE	SET NUMBER	CLOSER	WEATHERSTRIPPING	PUSH	PULL				
101	3'-0"	7'-0"	1-1/2"	ALUMINUM FRAME GLASS PANEL	A	ALUM. TUBE STOREFRONT	A								101
101A	3'-0"	7'-0"	1-1/2"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	B						RECEPTION	AUTHORIZED PERSONAL ONLY	101A
102	3'-0"	7'-0"	1-1/2"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	B						OFFICE #		102
103	3'-0"	7'-0"	1-1/2"	SOLID CORE WOOD FLUSH PANEL	C	HOLLOW METAL	B						1 HR. RATED DOOR & FRAME	EVIDENCE	103
104	3'-0"	7'-0"	1-1/2"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	B						INTERVIEW		104
104A	3'-0"	7'-0"	1-1/2"	SOLID CORE WOOD FLUSH PANEL	C	HOLLOW METAL	B						UNISEX TLT. H/C ACCESS SYM.		104A
104B	3'-0"	7'-0"	1-1/2"	HOLLOW METAL FLUSH PANEL	B	HOLLOW METAL	C								104B
105	3'-0"	7'-0"	1-1/2"	SOLID CORE WOOD FLUSH PANEL	C	HOLLOW METAL	B							ELECTRICAL	105
106	3'-0"	7'-0"	1-1/2"	SOLID CORE WOOD FLUSH PANEL	C	HOLLOW METAL	B							MECHANICAL	106
107	3'-0"	7'-0"	1-1/2"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	B							BREAK-ROOM	107
108	3'-0"	7'-0"	1-1/2"	SOLID CORE WOOD FLUSH PANEL	C	HOLLOW METAL	B							STAFF TLT. H/C ACCESS SYM.	108
109	3'-0"	7'-0"	1-1/2"	SOLID CORE WOOD FLUSH PANEL	C	HOLLOW METAL	B							DATA-COM	109
110	3'-0"	7'-0"	1-1/2"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	B								110
111	3'-0"	7'-0"	1-1/2"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	B							OFFICE #	111
112	3'-0"	7'-0"	1-1/2"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	B							OFFICE #	112
113	3'-0"	7'-0"	1-1/2"	SOLID CORE WOOD FLUSH PANEL	C	HOLLOW METAL	B							STORAGE	113
114	3'-0"	7'-0"	1-1/2"	SOLID CORE WOOD FLUSH PANEL	C	HOLLOW METAL	B							STORAGE	114
115A	3'-0"	7'-0"	1-1/2"	SOLID CORE WOOD FLUSH PANEL	D	HOLLOW METAL	B							CONFERENCE	115A
115B	3'-0"	7'-0"	1-1/2"	SOLID CORE WOOD FLUSH PANEL	D	HOLLOW METAL	B							CONFERENCE	115B



DONOFRO ARCHITECTS  
 2910 CALEDONIA ST.  
 MARIANNA, FL 32446  
 OFFICE: (850) 482-5261  
 P.O. BOX 861  
 MARIANNA, FL 32447  
 FAX: (850) 482-8609

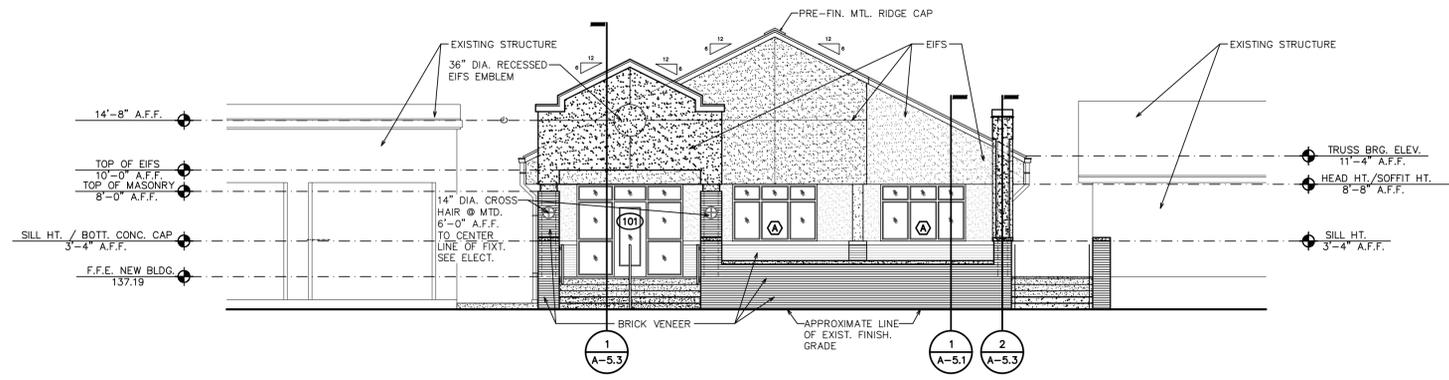
SHEET ROOM FINISH SCHEDULE \* DOOR SCHEDULE \* WINDOW TYPES  
 TITLE: DOOR & FRAME TYPES \* WINDOW TYPES  
 NEW POLICE STATION  
 FOR THE CITY OF COTTONDALE  
 FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
 DATE: OCT. 31, 2025  
 DRAWN BY: C.L.D.  
 CHECKED BY: P.A.D., JR.

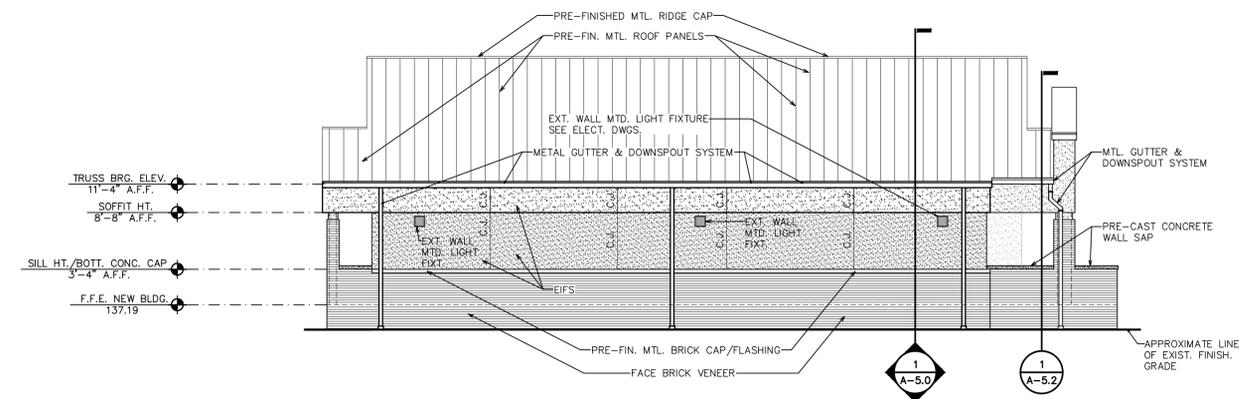
SHEET No.  
**A-2.0**

**NOTE!**  
 ALL GLAZED GLASS UNITS INDICATED AS IMPACT RESISTANT GLAZING INCLUDING GLASS @ STORE FRONT WINDOWS & DOORS SHALL BE INSULATING UNITS W/ OVERALL THICKNESS OF 1-5/16" CONSISTING OF AN OUT LITE OF 9/16" LAMINATED GLAZING & AN INTERIOR LITE OF 1/4" HEAT TREATED / HEAT STRENGTHENED FLOAT GLASS GLAZING. THE LAMINATED GLAZING SHALL CONSIST OF (2) LAYERS OF GLASS GLAZING W/ AN INTERLAYER OF .090 P.V.B. (POLY VINYL BUTYRAL). SEE SPECIFICATIONS.

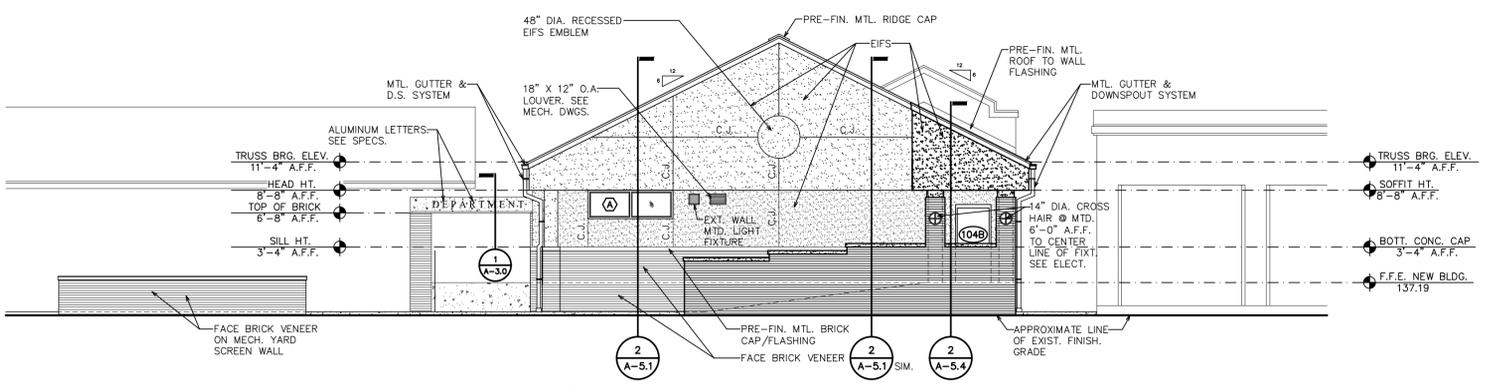
**100% COMPLETE**  
**BID DOCUMENTS**  
 DONOFRO ARCHITECTS  
 NOT FOR CONSTRUCTION  
 OCTOBER 31ST, 2025



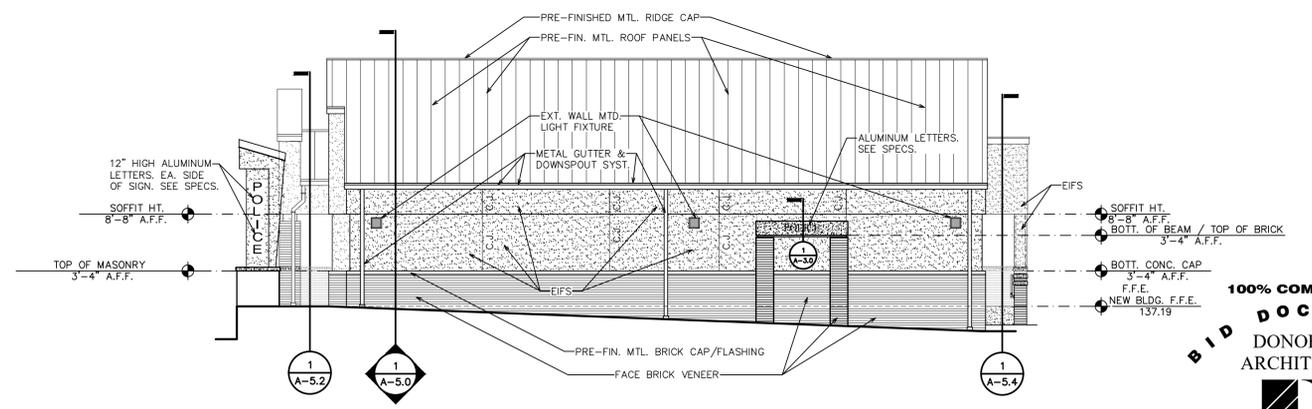
**1 NORTH ELEVATION**  
1/8" = 1'-0"



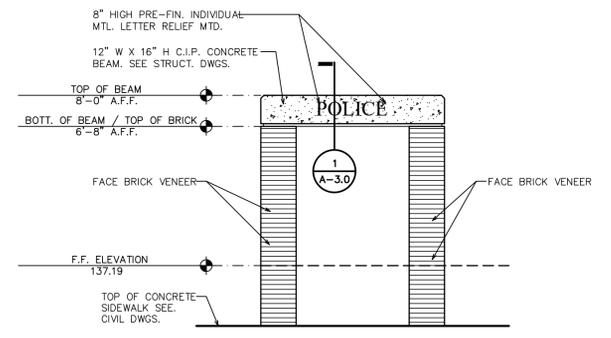
**2 EAST ELEVATION**  
1/8" = 1'-0"



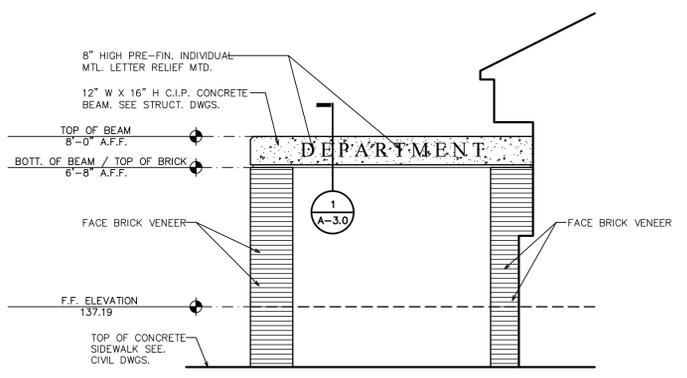
**3 SOUTH ELEVATION**  
1/8" = 1'-0"



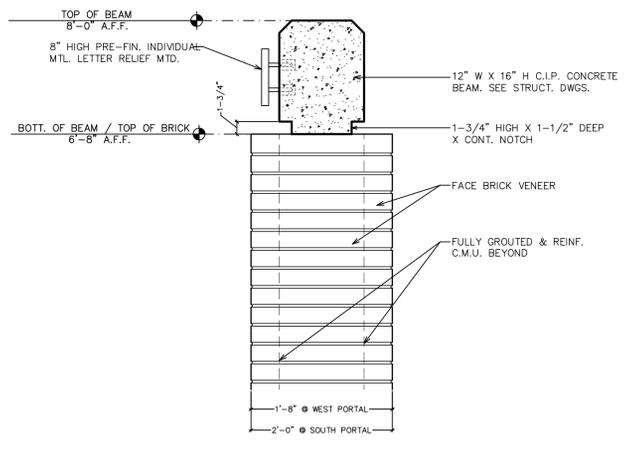
**4 WEST ELEVATION**  
1/8" = 1'-0"



**5 REAR ENTRANCE PORTAL WEST ELEVATION**  
1/4" = 1'-0"



**6 REAR ENTRANCE PORTAL SOUTH ELEVATION**  
1/4" = 1'-0"



**1 DETAIL**  
1" = 1'-0"

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE OR MODIFICATION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF DONOFRO ARCHITECTS IS PROHIBITED. DONOFRO ARCHITECTS

**DONOFRO ARCHITECTS**  
2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261  
P.O. BOX 861  
MARIANNA, FL 32447  
FAX: (850) 482-8609

SHEET EXTERIOR ELEVATIONS  
TITLE: **NEW POLICE STATION**  
FOR: **THE CITY OF COTTONDALE**  
FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
DATE: OCT. 31, 2025  
DRAWN BY: C.L.D.  
CHECKED BY: P.A.D., JR.

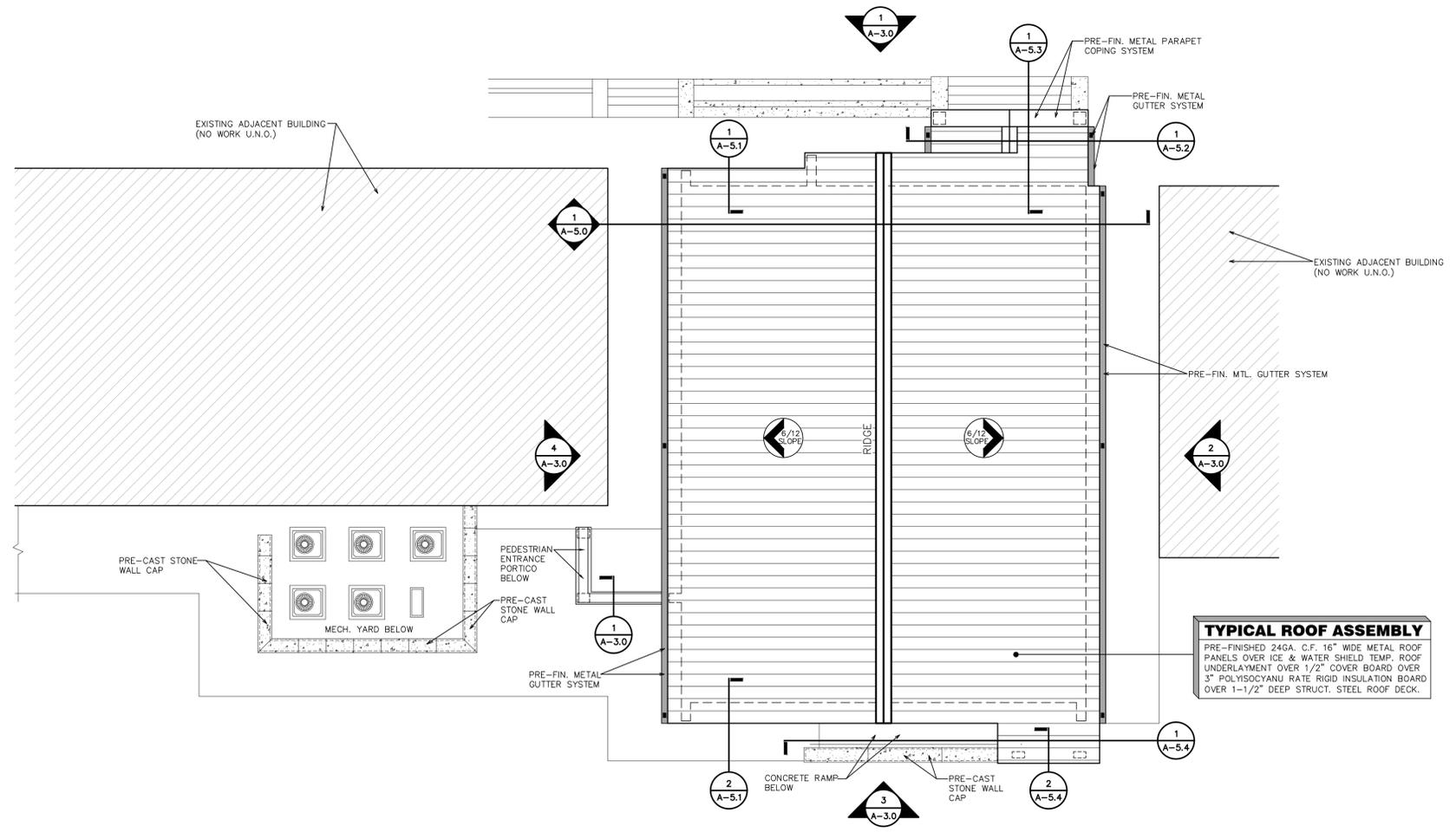
SHEET No.

**A-3.0**

**100% COMPLETE**  
**DONOFRO ARCHITECTS**  
**NOT FOR CONSTRUCTION**  
**OCTOBER 31ST, 2025**

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE, REPRODUCTION, OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF DONOFRO ARCHITECTS IS PROHIBITED AND SUBJECT TO LEGAL ACTION.

**DONOFRO ARCHITECTS**  
 P.O. BOX 861  
 MARIANNA, FL 32447  
 OFFICE: (850) 482-5261  
 FAX: (850) 482-8609



**TYPICAL ROOF ASSEMBLY**  
 PRE-FINISHED 24GA. C.F. 16" WIDE METAL ROOF PANELS OVER ICE & WATER SHIELD TEMP. ROOF UNDERLAYMENT OVER 1/2" COVER BOARD OVER 3" POLYISOCYANURATE RIGID INSULATION BOARD OVER 1-1/2" DEEP STRUCT. STEEL ROOF DECK.

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

SHEET TITLE: ROOF PLAN  
 FOR: NEW POLICE STATION  
 FOR: THE CITY OF COTTONDALE  
 FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
 DATE: OCT. 31, 2025  
 DRAWN BY: C.L.D.  
 CHECKED BY: P.A.D., JR.

100% COMPLETE  
 BID DOCUMENTS  
 DONOFRO ARCHITECTS  
 NOT FOR CONSTRUCTION  
 OCTOBER 31ST, 2025

SHEET No.  
**A-4.0**

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS, P.A. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE, REPRODUCTION, OR DISTRIBUTION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF DONOFRO ARCHITECTS, P.A. IS STRICTLY PROHIBITED. © DONOFRO ARCHITECTS

**DONOFRO ARCHITECTS**  
 2910 CALEDONIA ST.  
 MARIANNA, FL 32446  
 OFFICE: (850) 482-5261  
 P.O. BOX 861  
 MARIANNA, FL 32447  
 FAX: (850) 482-8609

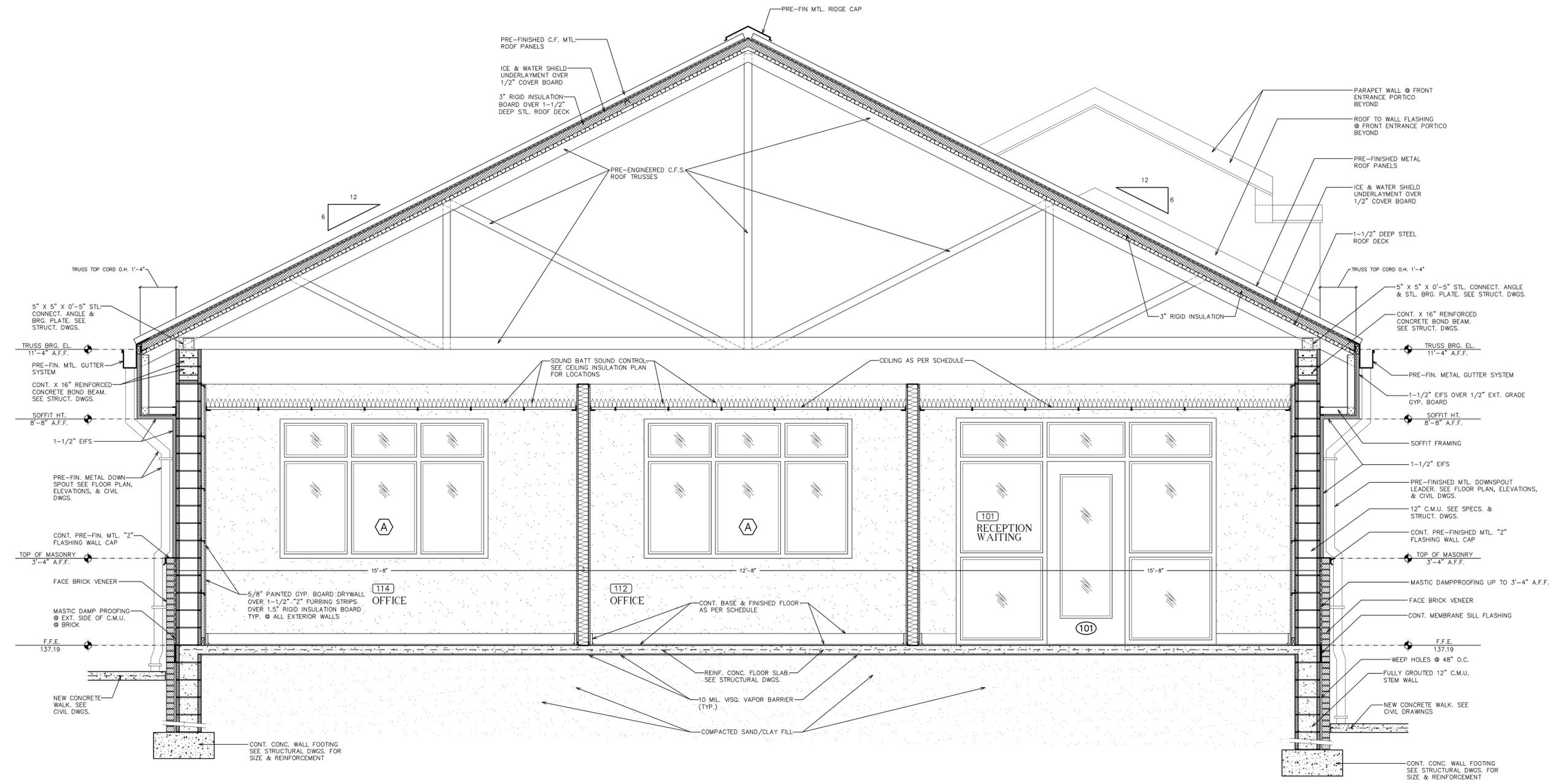


SHEET TITLE: TRANSVERSE SECTION  
 FOR: NEW POLICE STATION  
 FOR THE CITY OF COTTONDALE  
 FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
 DATE: OCT. 31, 2025  
 DRAWN BY: C.L.D.  
 CHECKED BY: P.A.D., JR.

SHEET No.  
**A-5.0**

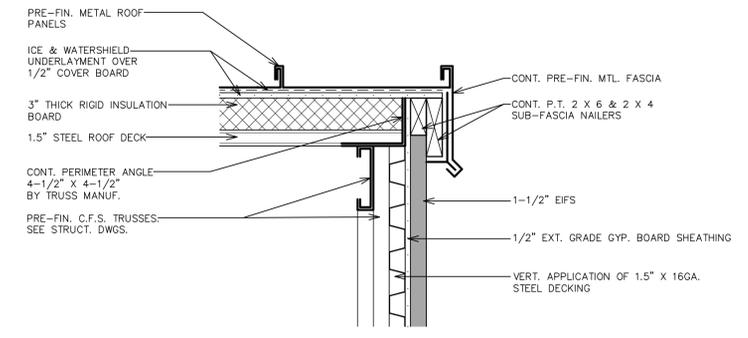
**100% COMPLETE**  
**BID DOCUMENTS**  
 DONOFRO ARCHITECTS  
 NOT FOR CONSTRUCTION  
 OCTOBER 31ST, 2025



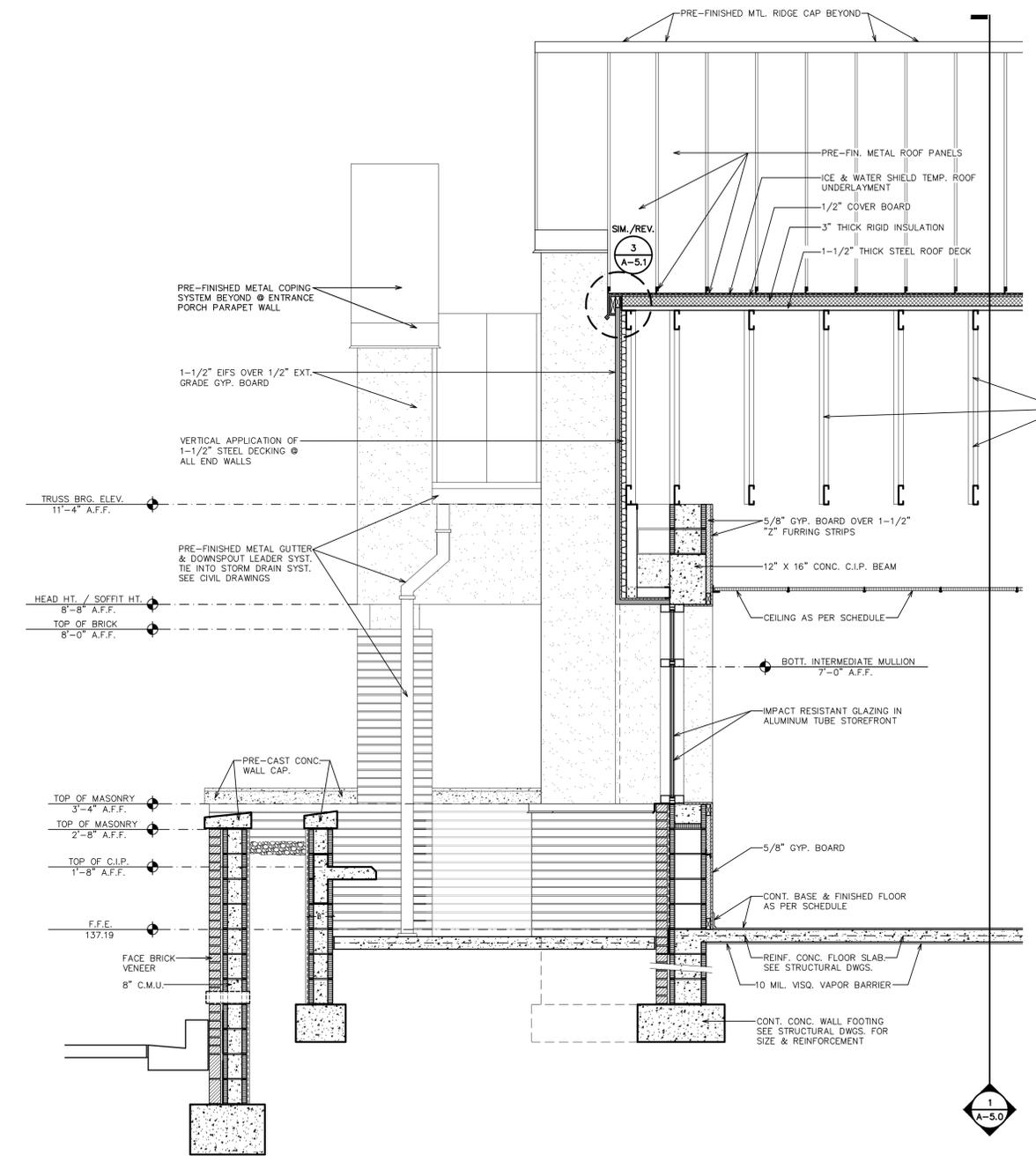
**1**  
**A-5.0**  
**TRANSVERSE SECTION**  
 1/2" = 1'-0"

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE, REPRODUCTION, OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF DONOFRO ARCHITECTS IS STRICTLY PROHIBITED. DONOFRO ARCHITECTS

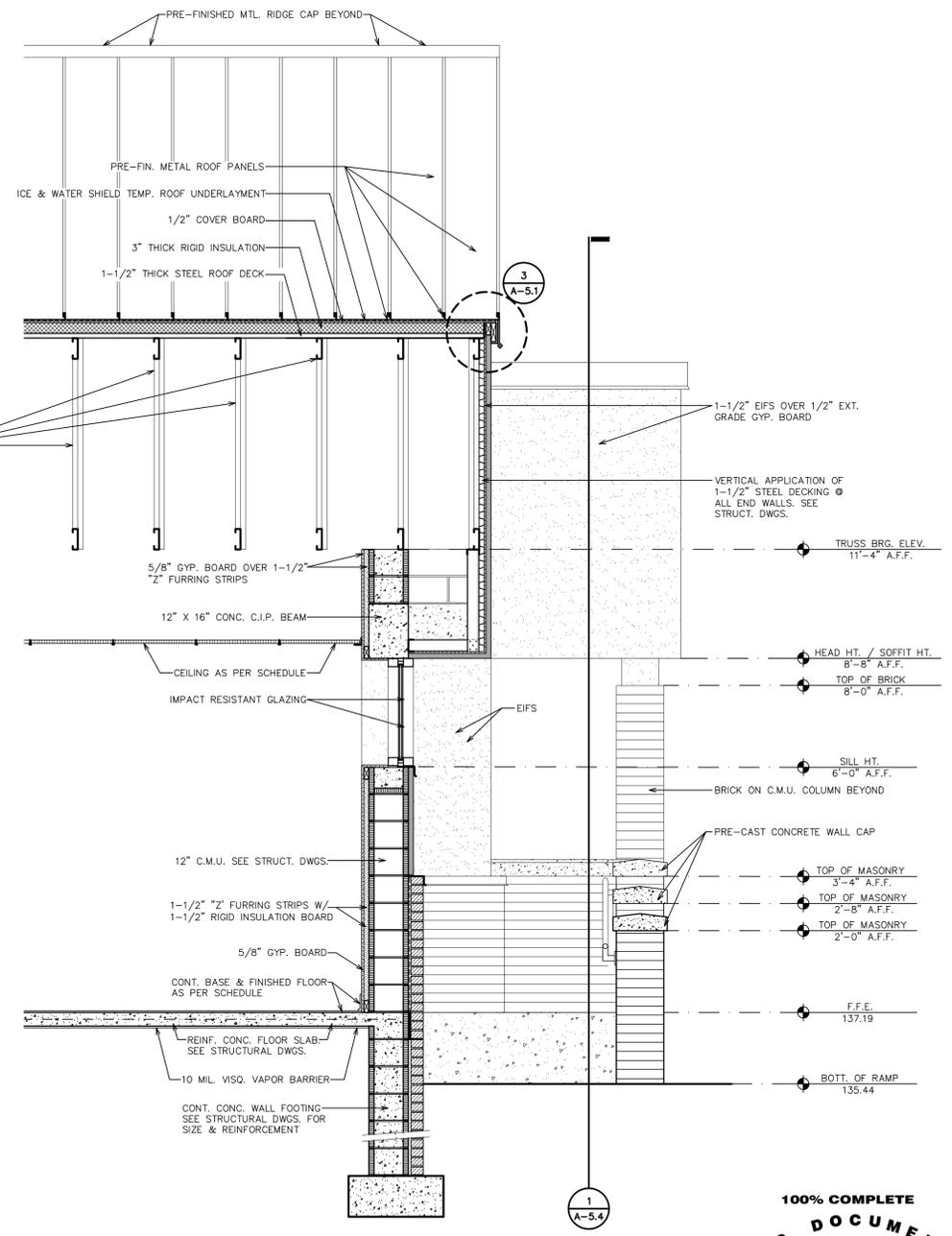
**DONOFRO ARCHITECTS**  
 2910 CALEDONIA ST.  
 MARIANNA, FL 32447  
 OFFICE: (850) 482-5261  
 P.O. BOX 861  
 MARIANNA, FL 32447  
 FAX: (850) 482-8609



**3 DETAIL**  
 1-1/2" = 1'-0"



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



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

**100% COMPLETE**  
**BID DOCUMENTS**  
 DONOFRO ARCHITECTS  
 NOT FOR CONSTRUCTION  
 OCTOBER 31ST, 2025

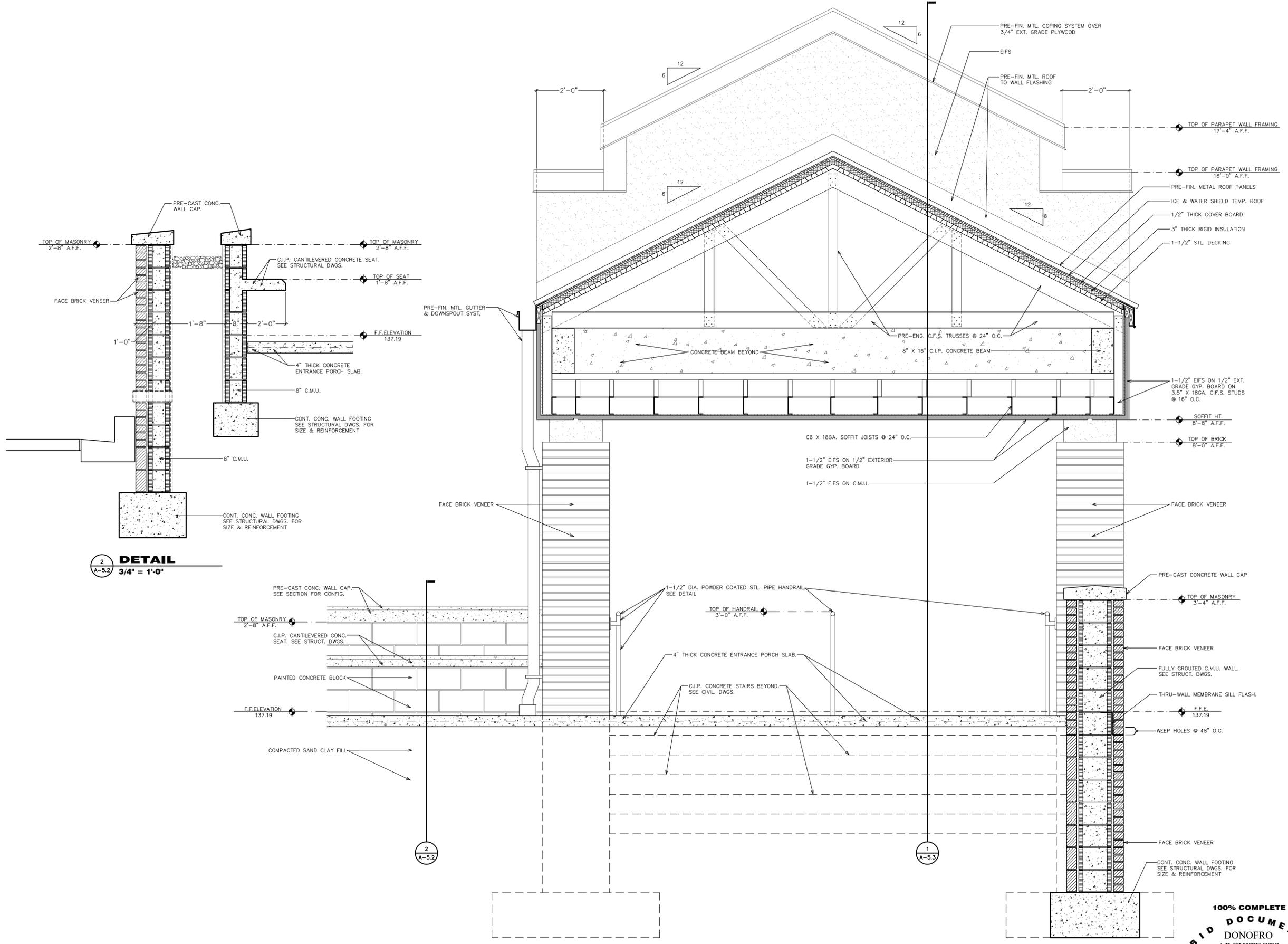
SHEET WALL SECTIONS \* DETAILS  
 TITLE:  
 NEW POLICE STATION  
 FOR  
 THE CITY OF COTTONDALE  
 FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
 DATE: OCT. 31, 2025  
 DRAWN BY: C.L.D.  
 CHECKED BY: P.A.D., JR.

SHEET No.  
**A-5.1**

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS AND ASSOCIATES, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE, REPRODUCTION, OR MODIFICATION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF DONOFRO ARCHITECTS AND ASSOCIATES, INC. IS STRICTLY PROHIBITED. © DONOFRO ARCHITECTS

**DONOFRO ARCHITECTS**  
 2910 CALEDONIA ST.  
 MARIANNA, FL 32446  
 OFFICE: (850) 482-5261  
 P.O. BOX 861  
 MARIANNA, FL 32447  
 FAX: (850) 482-8609



**2**  
 A-5.2  
**DETAIL**  
 3/4" = 1'-0"

**1**  
 A-5.2  
**TRANSVERSE PORTICO SECTION**  
 3/4" = 1'-0"

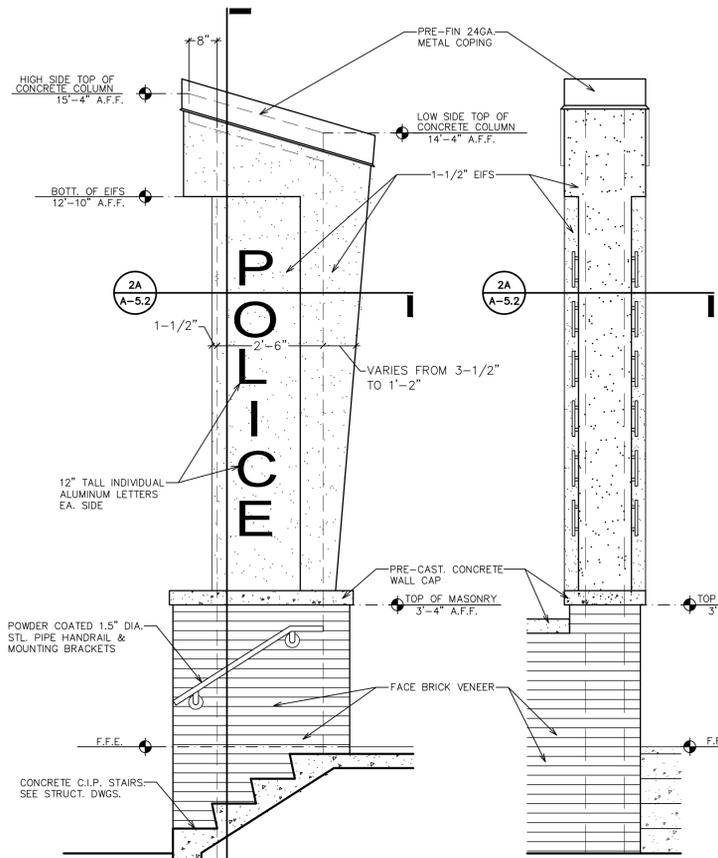
**100% COMPLETE**  
**BID DOCUMENTS**  
 DONOFRO ARCHITECTS  
 NOT FOR CONSTRUCTION  
 OCTOBER 31ST, 2025

SHEET SECTIONS \* DETAILS  
 TITLE:  
 NEW POLICE STATION  
 FOR  
 THE CITY OF COTTONDALE  
 FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER:  
 M-2024-13  
 DATE:  
 OCT. 31, 2025  
 DRAWN BY:  
 C.L.D.  
 CHECKED BY:  
 P.A.D., JR.

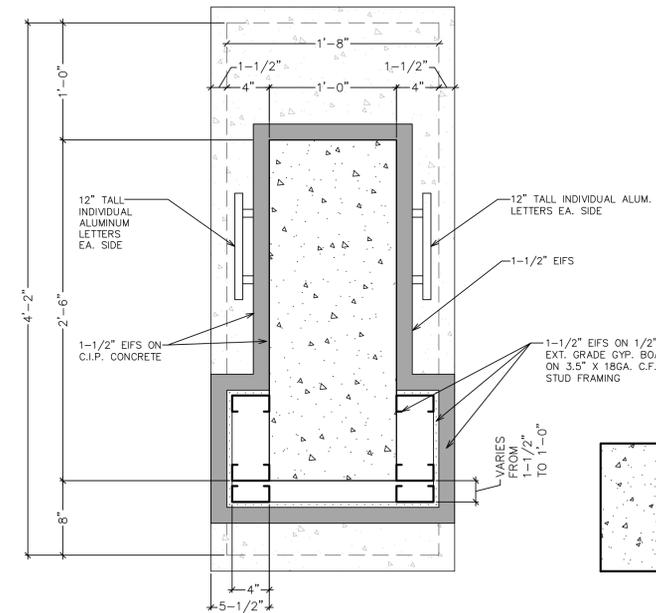
SHEET No.

**A-5.2**

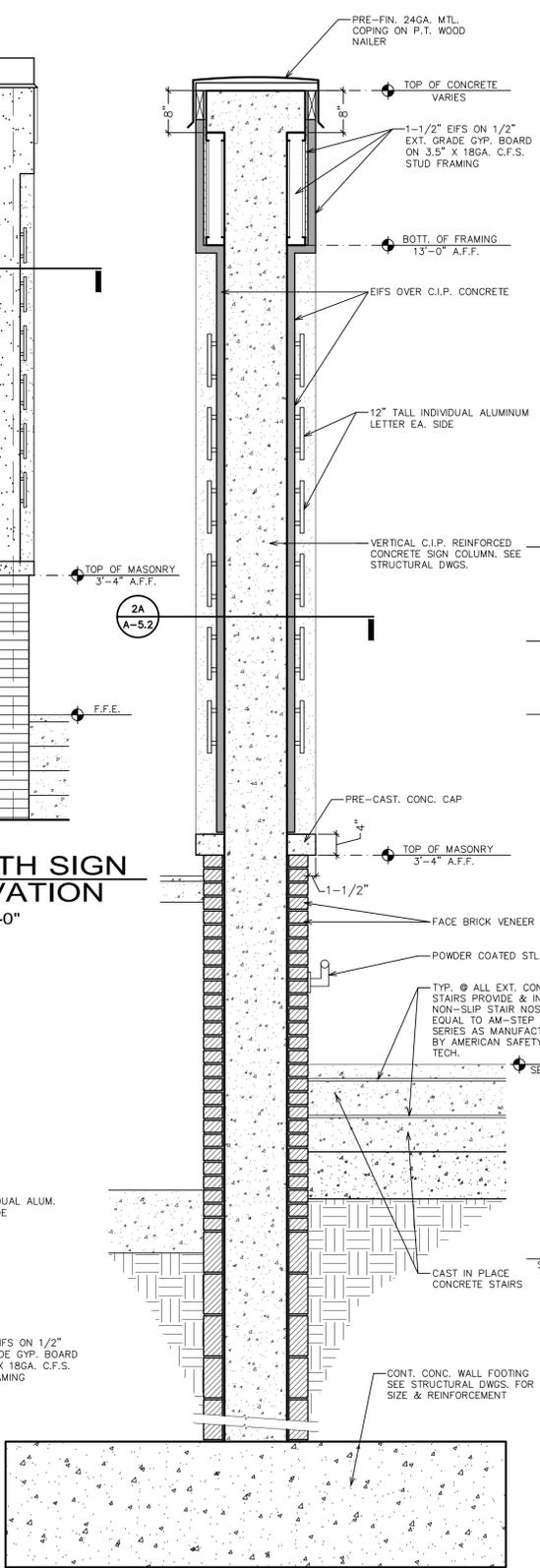


**WEST SIGN ELEVATION**  
1/2" = 1'-0"

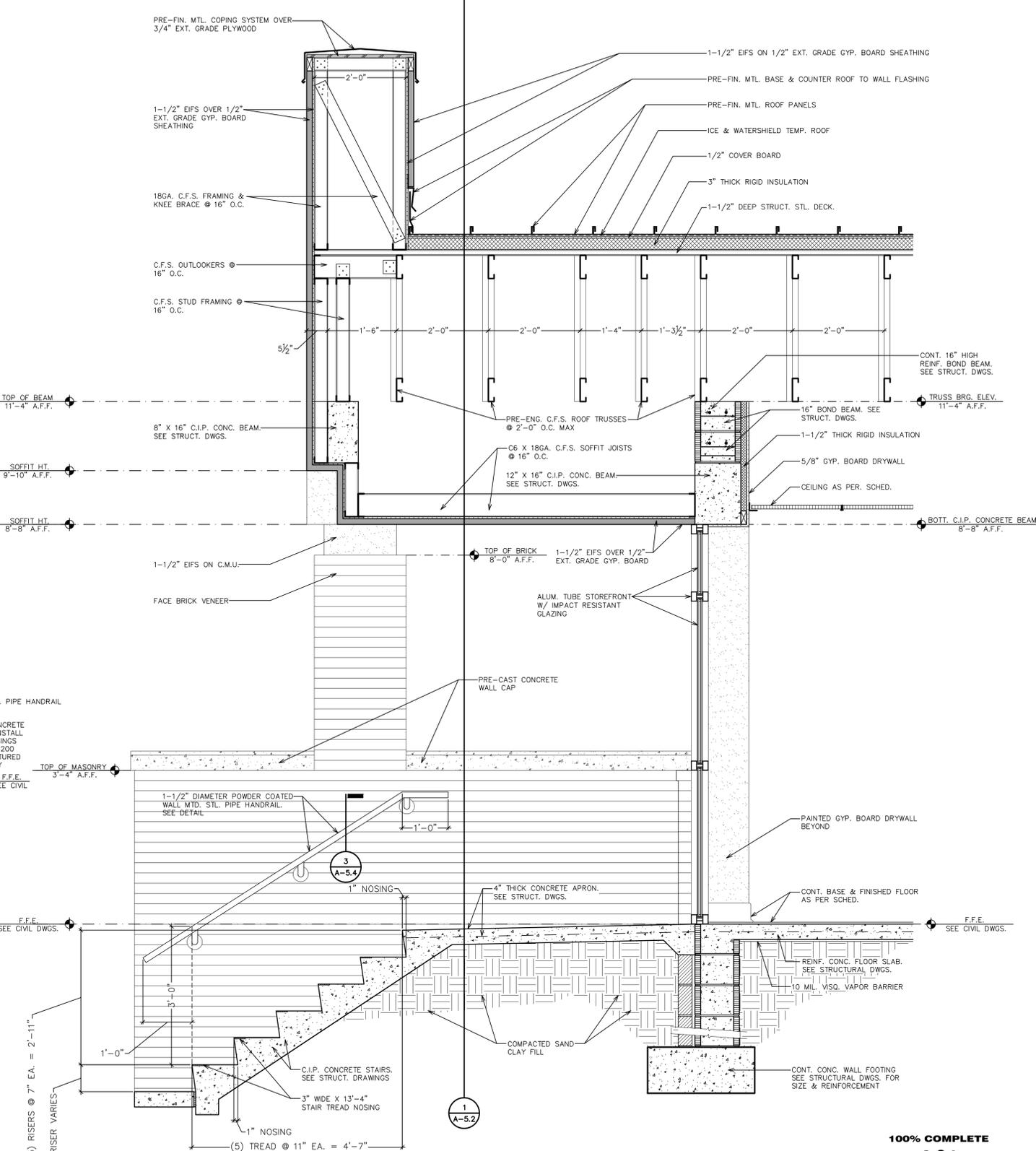
**NORTH SIGN ELEVATION**  
1/2" = 1'-0"



**CONSTRUCTION SECTION**  
2  
A-5.3  
1-1/2" = 1'-0"



**CONSTRUCTION SECTION**  
2  
A-5.3  
3/4" = 1'-0"



**CONSTRUCTION SECTION**  
1  
A-5.3  
3/4" = 1'-0"

100% COMPLETE  
BID DOCUMENTS  
DONOFRO ARCHITECTS  
NOT FOR CONSTRUCTION  
OCTOBER 31ST, 2025

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE, REPRODUCTION, OR DISTRIBUTION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF DONOFRO ARCHITECTS IS STRICTLY PROHIBITED. SUBJECT TO LITIGATION.

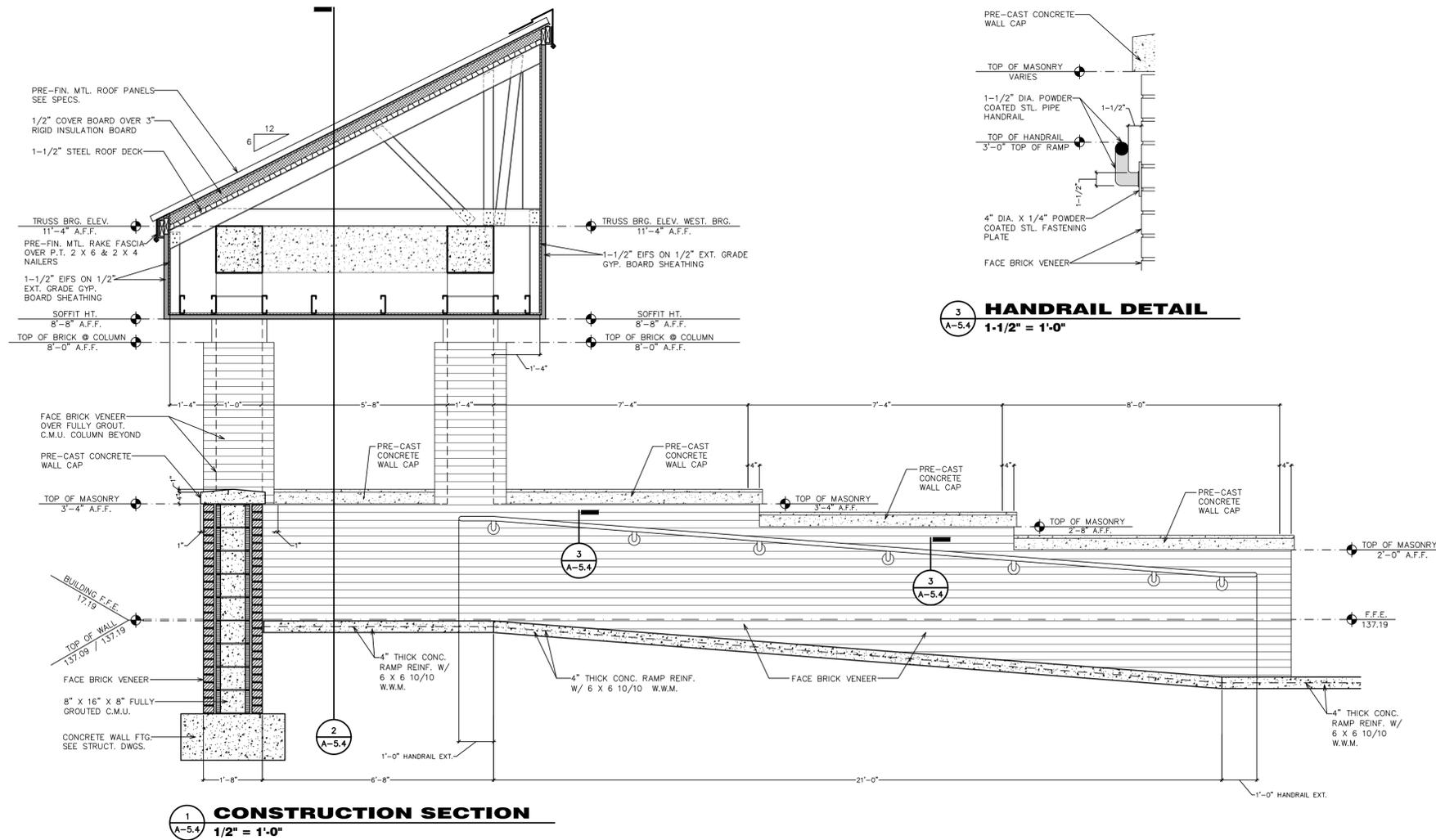
**DONOFRO ARCHITECTS**  
2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261  
P.O. BOX 861  
MARIANNA, FL 32447  
FAX: (850) 482-8609

SHEET SECTIONS \* DETAILS  
NEW POLICE STATION  
FOR  
THE CITY OF COTTONDALE  
FRONT ST. COTTONDALE, FLORIDA

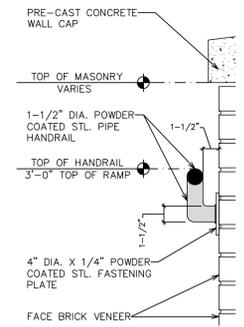
JOB NUMBER: M-2024-13  
DATE: OCT. 31, 2025  
DRAWN BY: C.L.D.  
CHECKED BY: P.A.D., JR.

SHEET No.

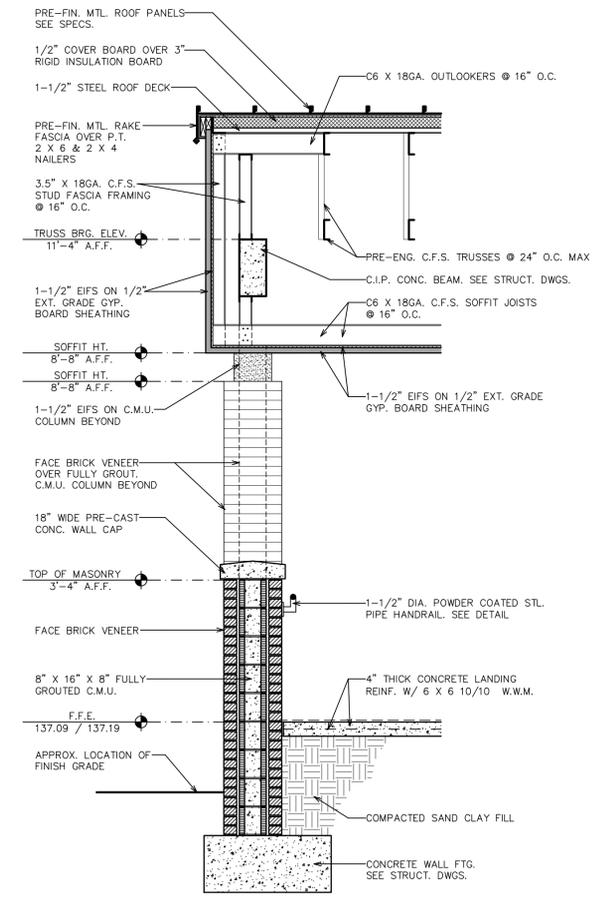
**A-5.3**



**1 CONSTRUCTION SECTION**  
 1/2" = 1'-0"



**3 HANDRAIL DETAIL**  
 1-1/2" = 1'-0"



**2 CONSTRUCTION SECTION**  
 1/2" = 1'-0"

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS AND ASSOCIATES. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE, REPRODUCTION, OR DISTRIBUTION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF DONOFRO ARCHITECTS IS STRICTLY PROHIBITED. SUBJECT TO LITIGATION.

**DONOFRO ARCHITECTS**  
 P.O. BOX 861  
 MARIANNA, FL 32447  
 OFFICE: (850) 482-5261



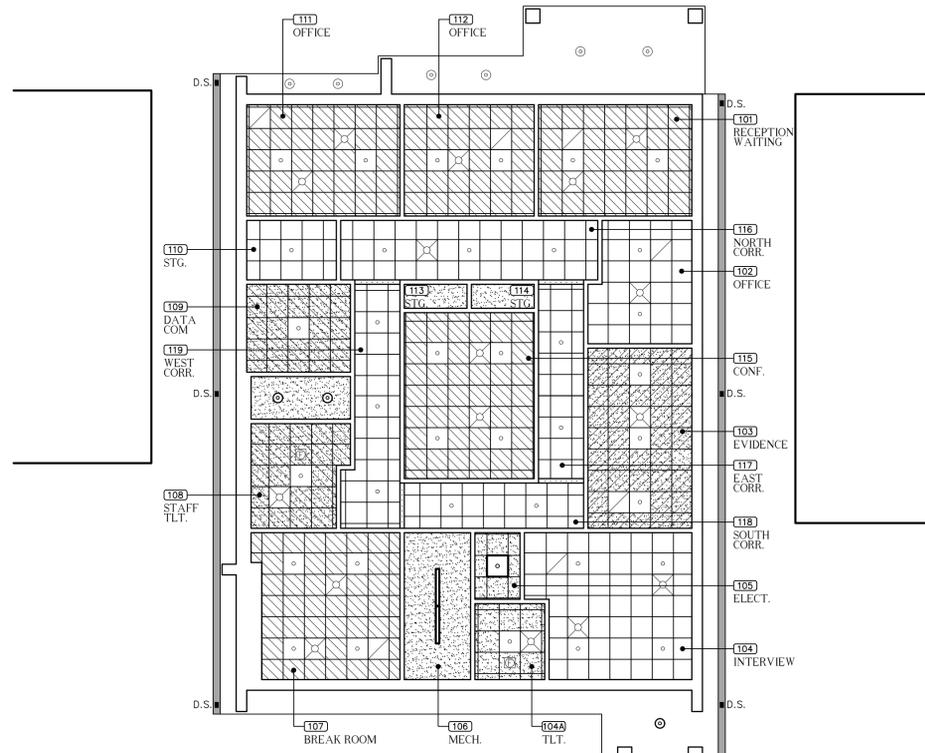
SHEET CONSTRUCTION SECTION  
 TITLE:  
 NEW POLICE STATION  
 FOR  
 THE CITY OF COTTONDALE  
 FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
 DATE: OCT. 31, 2025  
 DRAWN BY: C.L.D.  
 CHECKED BY: P.A.D., JR.

SHEET No.

**A-5.4**

100% COMPLETE  
**BID DOCUMENTS**  
 DONOFRO ARCHITECTS  
 NOT FOR CONSTRUCTION  
 OCTOBER 31ST, 2025

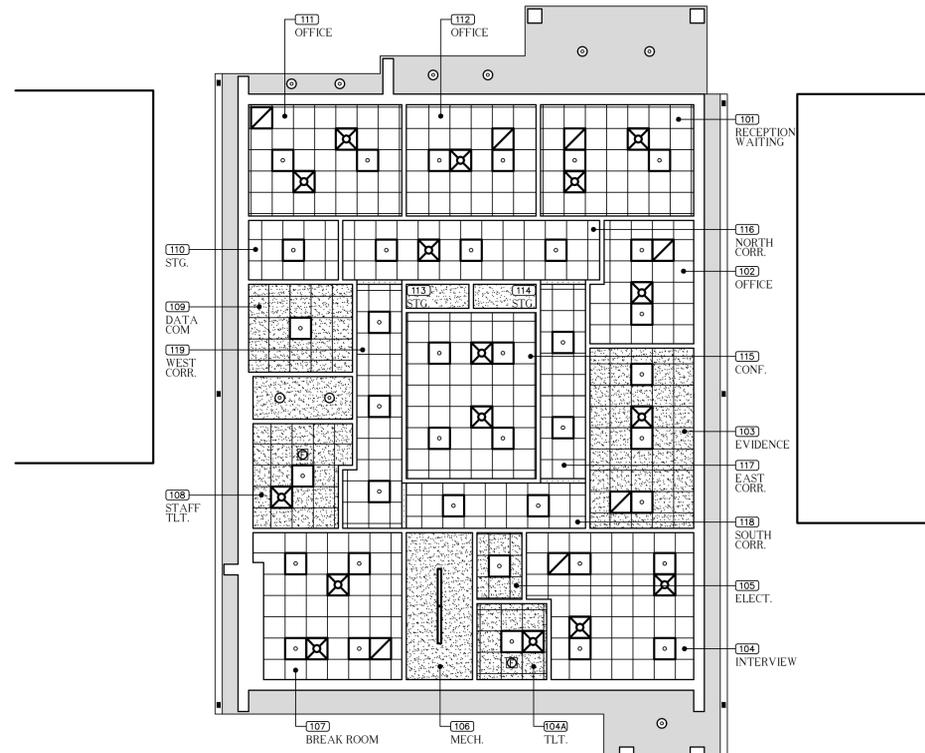


### CEILING INSULATION PLAN

1/8" = 1'-0"

#### CEILING INSULATION LEGEND

- INDICATES 5/8" GYP. BOARD DRYWALL CEILING ON BOTTOM OF ROOF TRUSSES
- INDICATES CEILINGS W/ 3.5" FIBERGLASS SOUND BATTS OVER CEILING



### REFLECTED CEILING PLAN

1/8" = 1'-0"

#### REFLECTED CEILING PLAN LEGEND

- INDICATES NEW GYP. BOARD CEILING SYSTEM
- INDICATES NEW 2' X 2' SUSPENDED MTL. GRID & ACOUSTICAL TILE CEILING SYSTEM
- INDICATES NEW 2' X 2' SUSPENDED MTL. GRID & VINYL COVERED GYP. BOARD TILE CEILING SYSTEM
- INDICATES NEW EIFS SOFFIT
- EXHAUST FAN, SEE HVAC PLAN
- CLG. MTD.. VACANCY SENSOR. SEE ELECT. DWGS
- CLG. MTD.. OCCUPANCY SENSOR. SEE ELECT. DWGS
- CEILING MTD. EXIT LIGHT W/ DIRECTIONAL ARROWS & BATTERY BACK UP. SEE ELECT.
- CEILING MTD. EXIT LIGHT W/ BATTERY BACK UP. SEE ELECT.
- CEILING MTD. FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR. SEE ELECT. DWGS
- CEILING MTD. AUTOMATIC HEAT DETECTOR. SEE ELECT. DWGS
- LIGHT FIXTURE, SEE ELECTRICAL
- HVAC DIFFUSERS, SEE HVAC PLAN
- RETURN AIR, SEE HVAC PLAN



THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS, P.A. AND IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. ANY REUSE, REPRODUCTION, OR DISTRIBUTION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF DONOFRO ARCHITECTS, P.A. IS STRICTLY PROHIBITED. © DONOFRO ARCHITECTS

**DONOFRO ARCHITECTS**

2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261

P.O. BOX 861  
MARIANNA, FL 32447  
FAX: (850) 482-8609

SHEET REFLECTED CEILING PLAN \* LEGEND

NEW POLICE STATION  
FOR  
THE CITY OF COTTONDALE  
FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
DATE: OCT. 31, 2025  
DRAWN BY: C.L.D.  
CHECKED BY: P.A.D., JR.

**100% COMPLETE**

**BID DOCUMENTS**

**DONOFRO ARCHITECTS**

**NOT FOR CONSTRUCTION**  
OCTOBER 31ST, 2025

SHEET No.  
**A-6.0**

## GENERAL NOTES

- THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON OR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
- THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURES. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY, AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES, AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO APPROVAL BY THE ENGINEER.
- ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE, AND ERECTION IN ACCORDANCE WITH THE SUPPLIER'S INSTRUCTIONS AND REQUIREMENTS.
- LOADING APPLIED TO THE STRUCTURES DURING THE PROCESS OF CONSTRUCTION SHALL NOT EXCEED THE SAFE LOAD-CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOADING USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE.
- ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS OTHERWISE NOTED.
- SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL. THE ENGINEER'S REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK, AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC.
- AS A MINIMUM, SUBMIT THE FOLLOWING ITEMS FOR REVIEW:

- STEEL REINFORCING SHOP DRAWINGS
- CAST-IN-PLACE CONCRETE MIX DESIGNS
- COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND CALCULATIONS (SIGNED AND SEALED)
- STEEL ROOF DECK SHOP DRAWINGS
- CONCRETE MASONRY UNIT MATERIAL AND STRENGTH SUBMITTALS
- PRE-ENGINEERED COLD-FORMED STEEL ROOF TRUSS SHOP DRAWINGS AND CALCULATIONS (SIGNED AND SEALED)
- STRUCTURAL STEEL FABRICATION DRAWINGS

OTHER SUBMITTALS ARE REQUIRED PER THE NOTES CONTAINED HEREIN AND PER THE PROJECT SPECIFICATIONS.

- ALL "STRUCTURAL SUBMITTALS" SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA. DRAWINGS PREPARED SOLELY AS A GUIDE FOR ERECTION, INSTALLATION, AND CATALOG INFORMATION WILL NOT REQUIRE AN ENGINEER'S SEAL. HOWEVER, THEY SHALL BEAR THE ENGINEER'S SIGNATURE AND AN INDICATION THAT HE OR SHE CHECKED THE WORK.
- DRAWINGS INTRODUCING ENGINEERING INPUT AND CALCULATIONS SHALL BE SIGNED, SEALED, AND DATED BY THE ENGINEER PREPARING SUCH WORK.

## DESIGN CRITERIA NOTES

- THE INTENDED DESIGN STANDARDS AND/OR CRITERIA ARE AS FOLLOWS:

GENERAL HURRICANE SAFE ROOM	2023 FLORIDA BUILDING CODE, BUILDING (FBC-B) 8TH EDITION 2023 ICC 500 ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS, AND FEMA P-361, APRIL 2021, FOURTH EDITION
EXISTING CONCRETE MASONRY	2023 FLORIDA BUILDING CODE, EXISTING BUILDING (FBC-EB) 8TH EDITION ACI 318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE TMS 402/602-16 BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES
STRUCTURAL STEEL	2017 AISC STEEL CONSTRUCTION MANUAL AND AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
COLD-FORMED STEEL	AISI S100-16 (2020) w/ S2 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS

- DESIGN SUPERIMPOSED GRAVITY DEAD LOADS USED IN THE DESIGN OF THESE STRUCTURES ARE AS FOLLOWS:

ROOF	20 PSF MAX. AND 8 PSF MIN.
------	----------------------------

- DESIGN SUPERIMPOSED GRAVITY LIVE LOADS USED IN THE DESIGN OF THESE STRUCTURES ARE AS FOLLOWS:

OCCUPANCY	UNIFORM	CONCENTRATED
ROOF (HURRICANE SAFE ROOM)	50 PSF	300 LB

- DESIGN LATERAL LIVE LOADS USED IN THE DESIGN OF THESE STRUCTURES ARE AS FOLLOWS:

<b>POLICE STATION (SAFE ROOM):</b>	
WIND LOADS PER ASCE 7-22 (3-SEC GUST), 2023 ICC 500 ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS, AND FEMA P-361, APRIL 2021, FOURTH EDITION	
ULTIMATE HURRICANE WIND SPEED ( $V_{H}$ ) = 160 MPH	
RISK CATEGORY IV	
EXPOSURE CATEGORY C	
INTERNAL PRESSURE COEFFICIENT, $G_{Cpi}$ = +/-0.55 (PARTIALLY ENCLOSED)	
DIRECTIONALITY FACTOR, $K_d$ = 1.0	

### EXISTING FIRE STATION (ESSENTIAL FACILITY):

WIND LOADS PER ASCE 7-22 (3-SEC GUST)	
ULTIMATE WIND SPEED ( $V_{0.17}$ ) = 140 MPH	
RISK CATEGORY IV	
EXPOSURE CATEGORY C	
INTERNAL PRESSURE COEFFICIENT, $G_{Cpi}$ = +/-0.18 (ENCLOSED)	

SEE COMPONENTS & CLADDING WIND LOAD DIAGRAMS AND PRESSURES ON SHEET S-1.0.

- ALL GLAZED OPENINGS AT THE POLICE STATION SHALL BE IMPACT RESISTANT AND SHALL HAVE TESTING SHOWING CONFORMANCE WITH THE REQUIREMENTS OF THE FBC, ICC 500, AND FEMA P-361.
- ALL DOORS SHALL BE IMPACT RESISTANT AT THE POLICE STATION AND SHALL HAVE TESTING SHOWING CONFORMANCE WITH THE REQUIREMENTS OF THE FBC, ICC 500, AND FEMA P-361.
- THIS STRUCTURE HAS BEEN DESIGNED WITH "SAFETY FACTORS" IN ACCORDANCE WITH GENERALLY ACCEPTED PRINCIPLES OF STRUCTURAL ENGINEERING. THE FUNDAMENTAL NATURE OF THE "SAFETY FACTOR" IS TO COMPENSATE FOR UNCERTAINTIES IN THE INTENDED DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL BUILDING COMPONENTS. IT IS INTENDED THAT "SAFETY FACTORS" BE USED SO THAT THE LOAD CARRYING CAPACITY OF THIS STRUCTURE DOES NOT FALL BELOW THE DESIGN LOAD AND THAT THE BUILDING WILL PERFORM UNDER DESIGN LOAD WITHOUT DISTRESS. WHILE THE USE OF "SAFETY FACTORS" IMPLIES SOME EXCESS CAPACITY BEYOND DESIGN LOAD, SUCH EXCESS CAPACITY CANNOT BE ADEQUATELY PREDICTED AND SHALL NOT BE RELIED UPON.

## EXISTING CONSTRUCTION NOTES

- BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING FACILITY, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING STRUCTURAL AND OTHER CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACING, SHORING, AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION AND TO PROTECT FROM DAMAGING THOSE PORTIONS OF THE EXISTING WORK WHICH ARE TO REMAIN.
- THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS, ELEVATIONS, ETC. NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE WORK TO THE EXISTING WORK. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS NECESSARY FOR FABRICATION AND ERECTION OF STRUCTURAL MEMBERS. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- WELDING TO AND WITHIN AN EXISTING FACILITY PRESENTS POTENTIAL HAZARDS, INCLUDING:
  - FIRE HAZARD - DUE TO THE EXISTING CONSTRUCTION AND BUILDING CONTENTS.
  - RECOMMENDATIONS TO PREVENT THESE HAZARDS INCLUDE:
    - PROTECT EXISTING COMBUSTIBLES PRIOR TO WELDING, AND KEEP A SEPARATE WATCHMAN AND SEVERAL FIRE EXTINGUISHERS ON HAND.
    - DO NOT LEAVE THE SITE UNTIL SATISFIED THAT NO FIRE HAZARD EXISTS.

## SLAB ON GRADE NOTES

- REFER TO THE GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION MORE THAN 12" BELOW THE BOTTOM OF THE SLAB AND REFER TO THE SITE PREPARATION NOTES ON THIS SHEET FOR ADDITIONAL SITE PREPARATION REQUIREMENTS.
- FOR 24-INCHES BELOW SLABS, USE TERMITE TREATED FILL CONTAINING NOT MORE THAN 12% PASSING, BY DRY WEIGHT, FINER THAN THE U.S. NO. 200 MESH SIEVE AND MAXIMUM 1" DIAMETER AGGREGATE. COMPACT TO 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557. EACH LAYER OF FILL SHALL NOT EXCEED 12-INCHES IN LOOSE THICKNESS WHEN COMPACTED BY HEAVY VIBRATORY COMPACTION EQUIPMENT, AND NOT MORE THAN 6-INCHES IN LOOSE THICKNESS WHEN COMPACTED BY HAND-OPERATED TAMPERS. COMPACT PRIOR TO PLACEMENT OF NEXT LIFT.
- FILL PLACEMENT AND COMPACTION SHALL BE MONITORED AND ACCEPTED BY THE TESTING AGENCY. TAKE A MINIMUM OF TWO FIELD DENSITY TESTS (ASTM D-1556-OR D-2922) FOR EACH 1000 SQUARE FEET OF EACH LIFT OF FILL PLACED (2-FEET MINIMUM).
- ALL CONCRETE FOR SLAB-ON-GRADE SHALL OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI FOR 4-INCH SLABS AND 4,000 PSI FOR 6-INCH SLABS. PLACE CONCRETE WITH A MAXIMUM 4" SLUMP +/- 1 INCH AS MEASURED AT POINT OF DISCHARGE. REINFORCE PER FOUNDATION PLANS AND SECTIONS.
- FOR INTERIOR AND EXTERIOR SLABS PLACE VAPOR RETARDER BETWEEN SOIL AND BOTTOM OF SLAB. SEE SPECIFICATIONS FOR REQUIREMENTS.
- ALL WELDED WIRE REINFORCING SHALL BE IN ACCORDANCE WITH ASTM A185. LAP ADJOINING PIECES AT LEAST ONE FULL MESH LENGTH.
- SLAB JOINTS SHALL BE FILLED WITH AN APPROVED MATERIAL. THIS SHOULD TAKE PLACE AS LATE AS POSSIBLE, PREFERABLY AT LEAST 4 TO 6 WEEKS AFTER THE SLAB HAS BEEN CAST BUT NOT BEFORE ALL CONSTRUCTION TRAFFIC HAS PERMANENTLY CEASED AND THE SLAB HAS HAD SUFFICIENT TIME TO SHRINK. PRIOR TO FILLING, REMOVE ALL DEBRIS FROM THE SLAB JOINT, THEN FILL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS FOLLOWS:
  - 4" AND 6" SLABS: FILL WITH FIELD MOLDED OR ELASTOMERIC SEALANT

- REFER TO THE SITE PLAN AND ARCHITECTURAL DRAWINGS FOR WALKWAYS AND OTHER EXTERIOR SLABS NOT INDICATED ON THE STRUCTURAL DRAWINGS FOR LOCATIONS, DIMENSIONS, ELEVATIONS, JOINTING DETAILS, AND FINISH DETAILS. PROVIDE AT MINIMUM 4" THICK WALKS REINFORCED WITH 6#6-W1.4XW1.4 WELDED WIRE REINFORCING UNLESS NOTED OTHERWISE.
- SLABS TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 5% (+/-1.5%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C260. DO NOT ALLOW AIR CONTENT OF TROWEL-FINISHED FLOORS TO EXCEED 3%.
- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS". HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.
- IN ORDER TO AVOID CONCRETE SHRINKAGE CRACKING, LIMIT THE MAXIMUM LENGTH OF SLAB CAST IN ANY ONE CONTINUOUS POUR TO 100 FEET OR LESS. THE MAXIMUM SPACING OF CONTRACTION JOINTS SHALL BE 12-FEET, OR AS SHOWN ON THE PLANS, FOR 4" OR 6" THICK SLABS.
- THE ALTERNATE WIRES OF THE WELDED WIRE REINFORCING OR REINFORCING STEEL MUST BE PRECUT AT THE SLAB CONTRACTION JOINT LOCATIONS TO CREATE A "WEAKENED PLANE". WITHOUT CUTTING THE ALTERNATE WIRES OR STEEL, THE STRENGTH OF THE WIRE OR STEEL WILL PREVENT THE SLAB FROM CRACKING (SEPARATING) AT THE JOINT AND THE SLAB MAY BEGIN TO CRACK ELSEWHERE.
- THE USE OF POLYPROPYLENE FIBERS (IN LIEU OF WIRE REINFORCING) IS PROHIBITED WITHOUT THE WRITTEN AUTHORIZATION OF THE ENGINEER.
- IN SIDEWALKS AND WALKWAYS, LOCATE ISOLATION JOINTS AT 20 FT. O.C. MAXIMUM, SCORE, AND TOOL BETWEEN ISOLATION JOINTS IN EQUAL BAYS NOT GREATER THAN THE SIDEWALK WIDTH UNLESS DETAILED ELSEWHERE.
- SEE THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEPRESSED SLAB AREAS AND DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN.
- ALL REINFORCING MARKED CONTINUOUS (CONT.) ON THE PLANS AND DETAILS SHALL BE LAPPED PER THE BAR LAP SPLICE SCHEDULE AND ADDITIONAL BARS, WITH APPROPRIATE BAR LAP SPLICES, SHALL BE PROVIDED AT ALL CORNERS AND INTERSECTIONS.

## CAST-IN-PLACE CONCRETE NOTES

- CONCRETE MIXES SHALL BE DESIGNED PER ACI 301, USING PORTLAND CEMENT CONFORMING TO ASTM C-150 OR C-595, AGGREGATE CONFORMING TO ASTM C-33, AND ADMIXTURES CONFORMING TO ASTM C-494, C-1017, C-618, C-989, AND C-260. CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH C-94.
- CONCRETE SHALL CONFORM TO THE FOLLOWING COMPRESSIVE STRENGTH, SLUMP, AND WATER/CEMENT RATIO REQUIREMENTS:

CONCRETE WALLS AND BEAMS FOUNDATIONS SLABS	(28 DAY STRENGTH)	SLUMP*	W/C RATIO
	4,000 PSI	4" ± 1"	0.45
	"SEE FDN NOTES"	4" ± 1"	0.50

\* AT CONTRACTOR'S OPTION, AN APPROVED ADMIXTURE MAY BE USED TO PRODUCE FLOWABLE CONCRETE. MAXIMUM SLUMP SHALL NOT EXCEED 10 INCHES. THE CONTRACTOR SHALL SUBMIT TEST RESULTS OF THE PROPOSED CONCRETE MIXES ALONG WITH THE MANUFACTURER'S TECHNICAL DATA FOR APPROVAL PRIOR TO PLACING THE CONCRETE.

- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS". HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. ALL WELDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH AWS D1.4.
- ALL WELDED WIRE REINFORCING (WWR) SHALL CONFORM TO A-185.
- ALL REINFORCING STEEL SHALL BE SET AND TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. DO NOT FIELD BEND BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE UNLESS SPECIFICALLY INDICATED OR APPROVED BY THE ENGINEER.
- REINFORCING STEEL, INCLUDING HOOKS AND BENDS, SHALL BE DETAILED IN ACCORDANCE WITH ACI 315. ALL REINFORCING STEEL INDICATED AS BEING CONTINUOUS (CONT.) SHALL BE LAPPED WITH A CLASS B TENSION LAP SPLICE UNLESS OTHERWISE NOTED. REFER TO THE BAR LAP SPLICE SCHEDULE.
- UNLESS OTHERWISE NOTED, THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

A) CONCRETE EXPOSED TO EARTH OR WEATHER: #6 THROUGH #18 BARS #5 BAR, W31 OR D31 WIRE & SMALLER	2" 1 1/2"
B) CONCRETE NOT EXPOSED TO EARTH OR WEATHER: SLABS, WALLS, JOISTS: #14 AND #18 BARS #11 BAR AND SMALLER	1 1/2" 3/4"
BEAMS AND COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1 1/2"
C) FOUNDATION CONCRETE (SEE "FOUNDATION NOTES")	
- BAR SUPPORTS AND HOLDING BARS SHALL BE PROVIDED FOR ALL REINFORCING STEEL TO ENSURE MINIMUM CONCRETE COVER. BAR SUPPORTS SHALL BE PLASTIC TIPPED OR STAINLESS STEEL.
- FORMWORK SHALL REMAIN IN PLACE UNTIL CONCRETE HAS OBTAINED AT LEAST 90% OF ITS 28 DAY COMPRESSIVE STRENGTH. THE CONTRACTOR SHALL PROVIDE ALL SHORING AND RESHORING.

## NON-COMPOSITE METAL ROOF AND WALL DECK

- ALL METAL ROOF DECK SHALL BE MANUFACTURED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS" BY THE STEEL DECK INSTITUTE (SDI).
- ALL METAL ROOF DECK SHALL BE 1 1/2" DEEP x 20 GAGE GALVANIZED TYPE B (WIDE RIB) GRADE 50 DECK (MIN.  $l_p$  = 0.201 IN<sup>4</sup>/FT AND  $S_p$  = 0.234 IN<sup>3</sup>/3FT) AS MANUFACTURED BY VULCRAFT OR APPROVED EQUAL UNLESS NOTED OTHERWISE.
- ALL METAL WALL DECK SHALL BE 1 1/2" DEEP x 16 GAGE GALVANIZED TYPE B (WIDE RIB) GRADE 50 DECK (MIN.  $l_p$  = 0.373 IN<sup>4</sup>/FT AND  $S_p$  = 0.408 IN<sup>3</sup>/3FT) AS MANUFACTURED BY VULCRAFT OR APPROVED EQUAL UNLESS NOTED OTHERWISE.
- ALL METAL ROOF AND WALL DECK SHALL SPAN PERPENDICULAR TO SUPPORTS. SCREW DECK TO COLD-FORMED STEEL AND WELD TO STEEL PER SECTION S/S-6.1.
- SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS, AND OTHER PERMANENTLY SUSPENDED LOADS SHALL NOT BE SUPPORTED BY THE METAL DECK.
- ALL ROOF AND WALL DECKING SHALL BE GALVANIZED BY THE HOT-DIP PROCESS CONFORMING TO ASTM A924 CLASS G90. ALL DECK WELDS SHALL BE TOUCHED UP WITH GALVANIZING REPAIR PAINT FOR GALVANIZED DECKS. REFER TO SPECIFICATIONS.
- SUBMIT DETAILED SHOP DRAWINGS PRIOR TO FABRICATION SHOWING LAYOUT, TYPES OF METAL DECK UNITS, CONNECTION DETAILS, ACCESSORIES, AND OTHER RELATED ITEMS.
- ALL STEEL DECK SHALL BE CAPABLE OF SUPPORTING THE DESIGN LOADS PROVIDED IN THE CONTRACT DOCUMENTS. THE DECK SUPPLIER SHALL SUBMIT CALCULATIONS AND/OR LOAD TABLES WITH THE SHOP DRAWINGS. THESE CALCULATIONS AND/OR LOAD TABLES SHALL BE SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. THE STRUCTURAL ENGINEER OF RECORD'S REVIEW OF SUCH MATERIALS SHALL NOT RELIEVE THE DECK SUPPLIER AND ITS LICENSED ENGINEER OF THE SOLE RESPONSIBILITY FOR THE ACCURACY OF LOAD TABLES AND/OR CALCULATIONS SUBMITTED FOR REVIEW WITH THE SHOP DRAWINGS.

## STRUCTURAL STEEL NOTES

- ALL STRUCTURAL STEEL SHALL CONFORM TO THE 2017 AISC STEEL CONSTRUCTION MANUAL AND ANSI/AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
- UNLESS OTHERWISE NOTED, ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING ASTM SPECIFICATIONS:

MEMBER	ASTM	MIN. STRENGTH
STRUCTURAL TUBING	A500 (GRADE B)	46 KSI
WIDE FLANGE SHAPES	A992	50 KSI
OTHER ROLLED PLATES/SHAPES	A36	36 KSI
CONNECTION BOLTS	A325-X	92 KSI
ANCHOR RODS	F1554	36 KSI
THREADED RODS	A36	36 KSI
NONSHRINK GROUT	C1107	8000 PSI

- PROVIDE SIMPLE SHEAR TYPE CONNECTIONS THAT UTILIZE THE MAXIMUM NUMBER OF ROWS AT 3 INCH STANDARD BOLT SPACING USING MINIMUM 3/4" DIAMETER A325-X BOLTS. ALL BOLTS SHALL BE SHEAR-BEARING TYPE BOLTS AND SHALL BE "SNUG-TIGHT". SLOTTED HOLES ARE NOT PERMITTED.
- ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USING E70XX ELECTRODES. UNLESS OTHERWISE NOTED, PROVIDE CONT. MIN. SIZED FILLET WELDS PER AISC REQUIREMENTS. ALL FILLER MATERIAL SHALL HAVE A MINIMUM YIELD STRENGTH OF 58 KSI.
- HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED AND WILL REQUIRE STEEL MEMBER(S) TO BE REPLACED.
- UNLESS OTHERWISE NOTED, SHOP PAINT FOR STRUCTURAL STEEL SHALL BE TNEPEC 10-1009G. APPLY TO A MINIMUM DRY FILM THICKNESS OF 2.5 MILS. DO NOT PAINT STEEL SURFACES TO BE EMBEDDED IN CONCRETE. EXTEND PRIMING OF PARTIALLY EMBEDDED MEMBERS TO A DEPTH OF 2.5 INCHES. DO NOT PAINT SURFACES TO BE FIELD WELDED, SURFACES TO BE HIGH-STRENGTH BOLTED WITH SLIP-CRITICAL CONNECTIONS, SURFACES TO RECEIVE SPRAYED FIRE RESISTIVE MATERIALS (APPLIED FIREPROOFING), OR GALVANIZED SURFACES.
- UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A159. ALL STRUCTURAL TUBE, PIPE SHAPES, AND STRUCTURAL ASSEMBLIES SHALL HAVE ADEQUATE DRAIN HOLES AND SEAL WELDS. OTHERWISE, ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO WEATHER SHALL BE PAINTED WITH A TOP COAT OVER THE PRIMER COAT PER THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- THE STRUCTURAL STEEL ERECTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING (SEE "GENERAL NOTES").
- COLUMNS, ANCHOR BOLTS, BASE PLATES, ETC. HAVE BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS ENCOUNTERED DURING STEEL ERECTION AND CONSTRUCTION. ANY INVESTIGATION OF THE COLUMNS, ANCHOR BOLTS, BASE PLATES, ETC. FOR ADEQUACY DURING THE STEEL ERECTION AND CONSTRUCTION PROCESS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

- STEEL FABRICATOR SHALL BE THOSE QUALIFIED FABRICATORS THAT PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM AND ARE DESIGNATED AS AN AISC-CERTIFIED PLANT, CATEGORY STD.
- PROTECTIVE COATINGS DAMAGED DURING THE TRANSPORTING, ERECTING, AND FIELD WELDING PROCESSES SHALL BE REPAIRED IN THE FIELD TO MATCH THE SHOP APPLIED COATING.
- ALL COLUMNS ERECTED IN THE FIELD SHALL BE PLUMBED IN ACCORDANCE TO AISC TOLERANCES USING LASER OR OTHER SIMILAR EQUIPMENT.

## FOUNDATION NOTES

- ALL FOOTINGS HAVE BEEN DESIGNED USING AN ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF AS RECOMMENDED IN THE GEOTECHNICAL REPORT PREPARED BY ARDAMAN AND ASSOCIATES, INC., FILE NO. 113-25-40-1144, DATED MAY 15, 2025.
- ALL CONSOLIDATION OF SUBSOIL SHALL CLOSELY FOLLOW THE GEOTECHNICAL REPORT PREPARED BY ARDAMAN AND ASSOCIATES, INC., FILE NO. 113-25-40-1144, DATED MAY 15, 2025, UNLESS MORE STRINGENT REQUIREMENTS ARE LISTED HEREIN.
- FOR 24-INCHES BELOW FOOTINGS, USE TERMITE TREATED FILL CONTAINING NOT MORE THAN 12% PASSING, BY DRY WEIGHT, FINER THAN THE U.S. NO. 200 MESH SIEVE AND MAXIMUM 1" DIAMETER AGGREGATE. COMPACT TO 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557. EACH LAYER OF FILL SHALL NOT EXCEED 12-INCHES IN LOOSE THICKNESS WHEN COMPACTED BY HEAVY VIBRATORY COMPACTION EQUIPMENT, AND NOT MORE THAN 6-INCHES IN LOOSE THICKNESS WHEN COMPACTED BY HAND-OPERATED TAMPERS. COMPACT PRIOR TO PLACEMENT OF NEXT LIFT.
- ALL FOUNDATION EXCAVATIONS, FILL PLACEMENT, AND COMPACTION SHALL BE EVALUATED, MONITORED, AND ACCEPTED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY PRIOR TO PLACING FOUNDATION CONCRETE.
- AT FOOTING SUBGRADES, AT LEAST ONE TEST OF EACH SOIL STRATUM SHALL BE PERFORMED FOR EACH ISOLATED FOOTING AND EACH 50 LINEAR FEET OF CONTINUOUS WALL FOOTING PER LIFT (2-FEET TOTAL) TO VERIFY DESIGN BEARING CAPACITIES.
- FOUNDATIONS SHALL OBTAIN A 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI. ALL CONCRETE TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 5% (+/-1.5%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C260.
- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS". HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.
- UNLESS OTHERWISE NOTED, THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

A) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH - 3"	
B) CONCRETE EXPOSED TO EARTH OR WEATHER: #6 THROUGH #18 BARS - 2" #5 BAR, W31 OR D31 WIRE & SMALLER - 1 1/2"	
- ALL REINFORCING MARKED CONTINUOUS (CONT.) ON THE PLANS AND DETAILS SHALL BE LAPPED PER THE BAR LAP SPLICE SCHEDULE AND ADDITIONAL BARS, WITH APPROPRIATE BAR LAP SPLICES, SHALL BE PROVIDED AT ALL CORNERS AND INTERSECTIONS.
- PRIOR TO COMMENCING ANY FOUNDATION WORK, COORDINATE WORK WITH ANY EXISTING AND NEW UTILITIES. CONTACT THE ENGINEER IMMEDIATELY IF CONFLICTS ARISE. PIPES SHALL BE SLEEVED, AS REQUIRED, TO RUN VERTICALLY THROUGH FOUNDATIONS. PIPES SHALL NOT IN ANY CASE BE INSTALLED HORIZONTALLY THROUGH AND ALONG FOUNDATIONS.
- NO UNBALANCED BACKFILLING SHALL BE COMPLETED AGAINST FOUNDATION WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY BRACING OR BY PERMANENT CONSTRUCTION.

KIMBERLY M. HOLLOWAY, P.E.

FLORIDA REG. NO. 69166

SHOWING THE PROBABILITY OF  
SHOULD BE OBTAINED FROM THE  
ASSIGNED TO THE PROJECT. THE  
FOR THE USE OF THE PROJECT.  
CONTRACTOR IS THROUGH ANY  
SUBJECT TO LOCAL ACTION.

DONOFRO ARCHITECTS

DONOFRO ARCHITECTS

2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261

P.O. BOX 861  
MARIANNA, FL 32447  
FAX: (850) 482-8609

SHEET STRUCTURAL NOTES

TITLE:

NEW POLICE STATION

FOR

THE CITY OF COTTONDALE

FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER:  
M-2024-13

DATE:  
OCT. 31, 2025

DRAWN BY:  
AMM

CHECKED BY:  
KMH

SHEET No.

S-0.0

100% COMPLETE  
CONSTRUCTION DOCUMENTS

DHM  
MELVIN ENGINEERING

TALLAHASSEE OFFICE  
2541-1 BARRINGTON CIRCLE  
TALLAHASSEE, FLORIDA 32308  
Phone: 850.671.7221

**CONCRETE MASONRY NOTES**

- MASONRY CONSTRUCTION SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES (TMS 402/602-16), PUBLISHED BY THE MASONRY SOCIETY.
- THE MINIMUM DESIGN COMPRESSIVE STRENGTH OF THE MASONRY ( $f_m$ ) SHALL BE 2,000 PSI AT 28 DAYS AS DETERMINED BY THE UNIT STRENGTH METHOD USING TABLE 2 IN THE TMS 602 SPECIFICATION. THE STRUCTURE IS SUPPORTED BY BEARING WALLS UNLESS NOTED OTHERWISE. ERECT MASONRY PRIOR TO CASTING CONCRETE COLUMNS WITHIN BEARING WALLS OR CASTING BEAMS AND SLABS SUPPORTED BY BEARING WALLS.
- HOLLOW LOAD-BEARING MASONRY UNITS SHALL CONFORM TO ASTM C-90, GRADE N. BLOCK SHALL HAVE A NET AREA COMPRESSIVE STRENGTH OF 2,000 PSI AND SHALL BE MANUFACTURED WITH NORMAL WEIGHT AGGREGATE.
- THE USE OF MASONRY-CEMENT MORTAR IS STRICTLY PROHIBITED. MORTAR SHALL CONFORM TO ASTM C-270, TYPE S EXCEPT USE TYPE M MORTAR BELOW GRADE. ALL MORTAR SHALL MEET THE "PROPORTION SPECIFICATION" OF ASTM C-270 AND SHALL BE MADE WITH PORTLAND CEMENT/LIME (NON AIR-ENTRAINED). HEAD AND BED JOINTS SHALL BE 3/8" FOR THE THICKNESS OF THE FACE SHELL. WEBS ARE TO BE FULLY MORTARED IN ALL COURSES OF PIERS, COLUMNS AND PILASTERS; IN THE STARTING COURSE; AND WHERE AN ADJACENT CELL IS TO BE GROUTED, REMOVE MORTAR PROTRUSIONS EXTENDING 1/2" OR MORE INTO THE CELL.
- FILL ALL BOND BEAMS AND REINFORCED CELLS SOLIDLY WITH FINE GROUT. GROUT SHALL CONFORM TO ASTM C-476 AND SHALL OBTAIN A MIN. 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI. AGGREGATE TO CONFORM TO ASTM C404 FOR FINE GROUT WITH A SLUMP OF 8" TO 11". GROUT ALL MASONRY CONTAINING REINFORCING. ALL CELLS OF 4 HOUR RATED WALLS, AND WHERE INDICATED ON THE DRAWINGS. ALLOW MORTAR TO CURE 24 HOURS PRIOR TO GROUTING. PROVIDE CLEANOUT OPENINGS AT THE BASE OF CELLS CONTAINING REINFORCING STEEL TO CLEAN THE CELL AND TIE THE VERTICAL BAR TO THE DOWEL. IN HIGH-LIFT GROUTING, USE 5'-0" MAXIMUM LIFTS, WITH 1/2 HOUR TO 1 HOUR BETWEEN LIFTS. VIBRATE EACH LIFT AND RECONSOLIDATE THE PREVIOUS LIFT.
- REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A-615, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE HOOKED OR BENT. USE REBAR POSITIONERS TO ENSURE REBAR IS INSTALLED IN CORRECT POSITION.
- UNLESS OTHERWISE INDICATED, ALL WALLS SHALL BE LAID IN RUNNING BOND. SAWCUT UNITS WHICH ARE NOT IN MULTIPLES OF 8". UNITS SHALL BE AT LEAST 8" LONG. BOND CORNERS BY LAPPING 8" IN SUCCESSIVE VERTICAL COURSES.
- PROVIDE VERTICAL REINFORCING BARS OF THE GIVEN SIZE AND SPACING AS INDICATED. PROVIDE BARS AT ALL WALL CORNERS, INTERSECTIONS, AND OPENING EDGES. AT BOND/TIE BEAM CORNERS AND INTERSECTIONS, PLACE (2) #5 TOP AND BOTTOM CORNER BARS WITH 36" LEGS EACH WAY TO MATCH CONTINUOUS REINFORCEMENT.
- PROVIDE REBAR DOWELS FROM FOUNDATIONS TO MATCH VERTICAL REINFORCING SIZE AND SPACING. DOWELS SHALL HAVE STANDARD 90 DEGREE HOOKS AND LAP WITH THE FIRST LIFT OF REINFORCING.
- PROVIDE HORIZONTAL BOND BEAMS WITH CONTINUOUS REINFORCING AS INDICATED. DISCONTINUE ALL HORIZONTAL REINFORCING AT CONTROL JOINTS EXCEPT FOR THE BOND BEAMS AT BEARING ELEVATIONS.
- ALL VERTICAL WALL REINFORCING SHALL BE EXTENDED TO WITHIN 2" OF THE TOP OF ALL WALLS AND TERMINATED IN A STANDARD ACI 90-DEGREE HOOK.
- PROVIDE STANDARD 9 GAUGE HORIZONTAL JOINT REINFORCING AT 16" ON CENTER IN ALL WALLS. JOINT REINFORCING AND ANCHORS IN EXTERIOR WALLS SHALL CONFORM TO ASTM A153 CLASS B2, WITH A COATING THICKNESS OF 1.50 OZ/SF. OVERLAP DISCONTINUOUS ENDS 6". USE PREFABRICATED CORNERS AND TEES. PROVIDE LADDER TYPE JOINT REINFORCING FOR ALL CONCRETE MASONRY. STOP ALL HORIZONTAL JOINT REINFORCING AT CONTROL JOINTS.
- REINFORCED MASONRY WALL CONSTRUCTION SHALL BE INSPECTED BY AN ENGINEER OR ARCHITECT IN ACCORDANCE WITH TMS 402/602.
- SEE THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL DOOR AND WINDOW OPENINGS.
- THE MASONRY CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY WALL BRACING DURING CONSTRUCTION (SEE "GENERAL STRUCTURAL NOTES").
- WHERE ANCHOR BOLTS, WEDGE ANCHORS, OR ANCHORS SET IN EPOXY ARE INSTALLED IN A MASONRY WALL, FILL CELLS WITH GROUT FOR BOLTED COURSE, ONE COURSE ABOVE, AND TWO COURSES BELOW. DO NOT SET MORE THAN ONE ANCHOR PER CELL.
- PROVIDE LINTELS OR HEADERS AS SCHEDULED WITH MINIMUM 16-INCH BEARING AT ALL MASONRY OPENINGS. EXTEND BARS 14-INCHES BEYOND THE FACE OF THE SUPPORT AT A 16-INCH BEARING CONDITION.
- INTERIOR AND EXTERIOR WALL CONTROL JOINTS SHALL BE SPACED AT APPROXIMATELY EQUAL INTERVALS NOT TO EXCEED 25 FEET NOR 1.5 TIMES THE WALL HEIGHT. REFER TO WALL CONTROL JOINT (W.C.J.) SECTION.
- USE PRESSURE-TREATED WOOD FOR ALL WOOD IN CONTACT WITH MASONRY.

**PRE-ENGINEERED COLD-FORMED METAL TRUSSES**

- COLD-FORMED METAL TRUSSES SHALL BE DESIGNED BY TRUSS SUPPLIER USING COLD-FORMED STEEL SYMMETRICAL SHAPES WITH A MIN. YIELD STRENGTH OF 33 KSI MEETING THE REQUIREMENTS OF ASTM A-653. ALL LIGHT GAUGE COLD-FORMED METAL SECTIONS, STUDS, JOISTS AND ACCESSORIES SHALL HAVE HOT DIPPED GALVANIZED STEEL COATING MEETING THE REQUIREMENTS OF ASTM A525 AND C955 WITH G-60 CLASS COATING. TRUSS TOP AND BOTTOM CHORDS SHALL BE MIN. 18 GAUGE AND ALL OTHER TRUSS MEMBERS SHALL BE MIN. 20 GAUGE. NO EXCEPTIONS WILL BE ALLOWED.
- ALL COLD-FORMED METAL TRUSS ELEMENTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL MEMBERS" AND OTHER APPLICABLE CODES AND SPECIFICATIONS. TRUSSES SHALL BE DESIGNED TO SUPPORT THE DESIGN LOADS LISTED IN THE STRUCTURAL DESIGN CRITERIA AS WELL AS LOADS LISTED ELSEWHERE ON THE DRAWINGS.
- THE COLD-FORMED METAL TRUSS SUPPLIER SHALL SUBMIT TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL, DETAILED SHOP DRAWINGS AND DESIGN CALCULATIONS SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF FLORIDA. FABRICATION OF TRUSSES SHALL NOT BEGIN UNTIL THE SHOP DRAWINGS AND CALCULATIONS HAVE BEEN REVIEWED AND RETURNED APPROVED. REFER TO CONTRACT SPECIFICATIONS FOR APPROVED SUPPLIERS. SUPPLIER/ERECTOR NOT PRE-APPROVED, MUST HAVE QUALIFICATIONS MEETING CONTRACT SPECIFICATIONS APPROVED PRIOR TO BIDDING.
- CALCULATIONS SHALL INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
  - ENGINEERING ANALYSIS SHOWING LOADING, MEMBER STRESSES AND DEFLECTIONS FOR EACH DIFFERENT TRUSS DESIGN BASED ON DESIGN LOADS LISTED ON THE DRAWINGS.
  - ALL TRUSS MEMBERS, PITCH, SPAN, CAMBER, BEARING, CONFIGURATION, TYPE, LOCATION, SPACING AND LAYOUT OF TRUSSES.
  - ALL BRIDGING AND BRACING FOR DIAPHRAGM ACTION, CONSTRUCTION LOADS, AND ALL OTHER TEMPORARY AND PERMANENT LOADS.
  - ALL TRUSS TO TRUSS CONNECTIONS, TRUSS TO STEEL BEAM OR BEARING PLATE, TRUSS TO CONCRETE BEAM, JOISTS, TRACK, GUSSET PLATES, FASTENERS, BRIDGING AND RELATED ACCESSORIES TO BE DESIGNED AND DETAILED FOR ALL LOADING CONDITIONS INCLUDING NET WIND UPLIFT AND REACTIONS FROM HORIZONTAL WIND DIAPHRAGM ACTION.
  - ALL TRUSS MEMBER SIZES, PROPERTIES, AND YIELD STRENGTH.
  - SPACING AND LAYOUT OF TRUSSES MEETING REQUIREMENTS INDICATED ON THE DRAWINGS.
  - NOTE ANY PROPOSED TRUSS LAYOUT CHANGES THAT WOULD AFFECT THE LOCATION OF BEARING WALLS OR FOUNDATION DESIGN OR CONSTRUCTION.
- GENERAL CONTRACTOR SHALL COORDINATE TRUSS REQUIREMENTS WITH MEP, HVAC, AND DUCT WORK REQUIREMENTS.
- SUBMIT ERECTION DRAWINGS PREPARED BY FABRICATOR FOR APPROVAL BY ARCHITECT AND ENGINEER. THESE DRAWINGS SHALL INCLUDE:
  - PLACING DRAWINGS FOR STEEL AND TRUSS SYSTEM SHOWING MEMBERS, PITCH, SPAN, CAMBER, CONFIGURATION, TYPE, LOCATIONS, AND SPACING OF ALL MEMBERS. ALL ATTACHMENTS, BEARINGS, AND ANCHORAGE SHALL BE CLEARLY DETAILED ON DRAWING. INDICATE SUPPLEMENTAL STRAPPINGS, BRACINGS, CLIPS AND OTHER ACCESSORIES REQUIRED FOR PROPER INSTALLATION, MEETING DESIGN CRITERIA OUTLINED.
  - CROSS SECTIONS, PLANS, AND ELEVATIONS DEPICTING COMPONENT LOCATIONS.
  - CONNECTION DETAILS SHOWING SCREW TYPES, NUMBER, AND LOCATIONS, WELD LENGTHS AND LOCATIONS OR OTHER RELATED FASTENER REQUIREMENTS. ALL CONNECTIONS SHALL MEET OUTLINED DESIGN CRITERIA.
- THE COLD-FORMED METAL TRUSSES SHALL BE SHOP FABRICATED BY THE TRUSS SUPPLIER. THE SPECIALTY ENGINEER FOR THE STEEL TRUSSES SHALL INSPECT ALL FABRICATED TRUSSES AND SHALL PROVIDE A LETTER CERTIFYING THAT THE TRUSSES ARE FABRICATED IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS AND WILL SUSTAIN THE DESIGN LOADS SPECIFIED IN THE CONTRACT DOCUMENTS.
- THE TRUSS SUPPLIER SHALL SUBMIT FOR REVIEW DESIGN DATA FOR ALL SHOP OR FIELD SELF-DRILLING FASTENERS USED FOR CONSTRUCTION OF TRUSSES. PROVIDE CONNECTION DETAILS SHOWING SCREW TYPES, NUMBER, AND LOCATIONS, AND OTHER RELATED FASTENER REQUIREMENTS.
- THE TRUSS SUPPLIER SHALL LAYOUT PANEL POINTS TO ALLOW MECHANICAL DUCTS TO BE PLACED BETWEEN PANEL POINTS. THE LOCATION OF MECHANICAL DUCTS SHOWN ON MECHANICAL PLANS MAY BE FIELD ADJUSTED TO PREVENT INTERFERENCE WITH THE PANEL POINT LAYOUT OF TRUSSES IF APPROVED BY THE MECHANICAL ENGINEER. THE ACTUAL LAYOUT OF ALL TRUSS WEB MEMBERS SHALL BE SHOWN ON THE TRUSS SHOP DRAWINGS.
- DESIGN LOADS FOR TRUSSES:
 

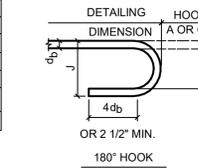
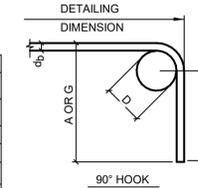
BUILDING DESIGN CODE:		2023 FLORIDA BUILDING CODE, BUILDING (FBC-B), 8TH EDITION	
1. WIND UPLIFT	REFER TO C&C PRESSURES ON SHEET S-1.0 AND WIND CRITERIA ON SHEET S-0.0		
2. TOP CHORD:			
LIVE LOAD	50 PSF (ON THE HORIZONTAL PROJECTION)		
DEAD LOAD	10 PSF (ON THE SURFACE AREA) AND NOT INCLUDING TRUSS SELF-WEIGHT		
3. BOTTOM CHORD:			
LIVE LOAD	0 PSF (ON THE HORIZONTAL PROJECTION)		
DEAD LOAD	12 PSF (ON THE HORIZONTAL PROJECTION) AND NOT INCLUDING TRUSS SELF-WEIGHT		

BAR	$f_c = 3,000$ PSI		$f_c = 4,000$ PSI		$f_c = 5,000$ PSI	
	TOP BARS	OTHERS	TOP BARS	OTHERS	TOP BARS	OTHERS
#3	28"	22"	25"	19"	22"	17"
#4	38"	29"	33"	25"	29"	23"
#5	47"	36"	41"	31"	36"	28"
#6	56"	43"	49"	37"	44"	34"
#7	81"	63"	71"	54"	63"	49"
#8	93"	72"	81"	62"	72"	56"
#9	105"	81"	91"	70"	81"	63"
#10	116"	89"	101"	78"	90"	69"

**1 BAR LAP SPLICE SCHEDULE**  
SCALE: 3/4" = 1'-0"

BAR SIZE	FINISHED BEND DIAMETER D,(IN.)	180° HOOKS		90° HOOKS	
		A OR G,(IN.)	J,(IN.)	A OR G,(IN.)	
#3	2 1/4	5	3	6	
#4	3	6	4	8	
#5	3 3/4	7	5	10	
#6	4 1/2	8	6	12	
#7	5 1/4	10	7	14	
#8	6	11	8	16	
#9	9 1/2	15	11 3/4	19	
#10	10 3/4	17	13 1/4	22	
#11	12	19	14 3/4	24	
#14	18 1/4	27	21 3/4	31	
#18	24	36	28 1/2	41	

D = INSIDE DIAMETER OF BEND



**2 END HOOKS**  
SCALE: 1/2" = 1'-0"

LABEL	WIDTH	REINFORCING	COMMENTS
MW1	12' CMU	#6 @ 32" O.C.	
MW2	8' CMU	#6 @ 32" O.C.	
MW3	8' CMU	#6 @ 8" O.C.	

LABEL	SIZE	THICKNESS	REINFORCING
F3.0	3'-0"x3'-0"	1'-4"	(4) #5 BARS EA. WAY TOP & BOT.
F3.5	3'-6"x3'-6"	1'-4"	(5) #5 BARS EA. WAY TOP & BOT.

LABEL	WIDTH	DEPTH	REINFORCING	
			TRANSVERSE	LONGITUDINAL
GB1.0	1' - 0"	1' - 6"	#4 TIES AT 10" O.C.	(2) #5 CONT. T (2) #5 CONT. B

LABEL	WIDTH	THICKNESS	REINFORCING	
			TRANSVERSE	LONGITUDINAL
WF2.5	2' - 6"	1' - 4"	#4 TIES AT 16" O.C.	(4) #5 CONT. T (4) #5 CONT. B
WF3.0	3' - 0"	1' - 4"	#4 TIES AT 16" O.C.	(4) #5 CONT. T (4) #5 CONT. B
WF3.5	3' - 6"	1' - 4"	#4 TIES AT 12" O.C.	(5) #5 CONT. T (5) #5 CONT. B
WF4.0	4' - 0"	1' - 4"	#4 TIES AT 12" O.C.	(6) #5 CONT. T (6) #5 CONT. B

KIMBERLY M. HOLLOWAY, P.E.  
  
FLORIDA REG. NO. 69166

NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF DONOFRO ARCHITECTS. SUBJECT TO U.S. PAT. & TRADEMARK OFFICE REGISTRATION.

**DONOFRO ARCHITECTS**  
P.O. BOX 861  
MARIANNA, FL 32447  
OFFICE: (850) 482-5261

2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261

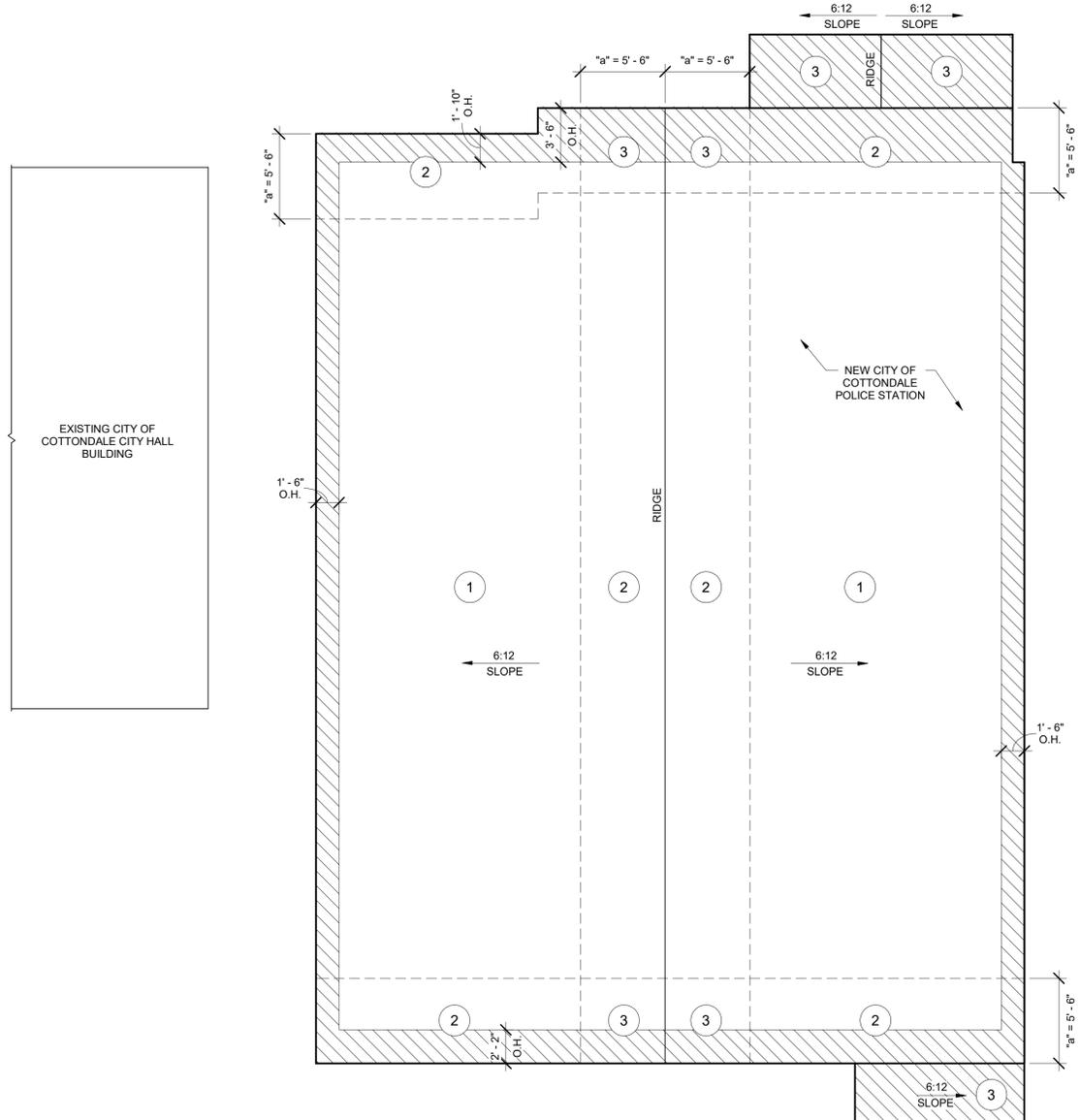


SHEET STRUCTURAL NOTES  
FOR  
**NEW POLICE STATION**  
FOR  
**THE CITY OF COTTONDALE**  
FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
DATE: OCT. 31, 2025  
DRAWN BY: AMM  
CHECKED BY: KMH

SHEET No.  
**S-0.1**  
100% COMPLETE  
CONSTRUCTION DOCUMENTS

**DHM**  
MELVIN ENGINEERING  
TALLAHASSEE OFFICE  
2541-1 BARRINGTON CIRCLE  
TALLAHASSEE, FLORIDA 32308  
Phone: 850.671.7221



**COTTONDALE POLICE STATION  
 C&C ROOF WIND LOAD DIAGRAM**  
 SCALE: 3/16" = 1'-0"

**C&C LEGEND:**  
 --- WIND LOAD SEPARATION  
 // OVERHANG

**COMPONENTS AND CLADDING WIND PRESSURES  
 FOR POLICE STATION GABLE ROOF - SLOPE 6:12**

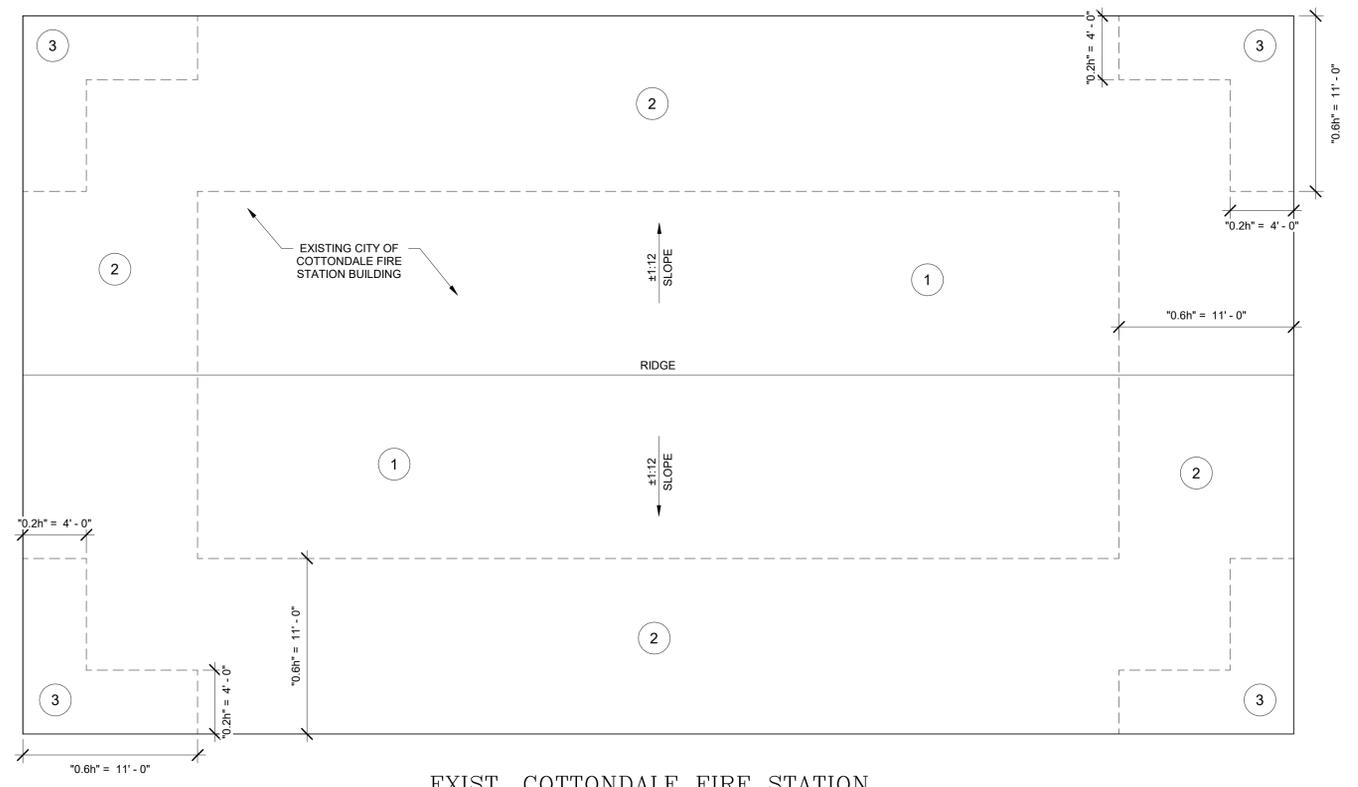
ZONE	EFFECTIVE WIND AREA, SF	WIND PRESSURE	WIND SUCTION (PSF)
1	10	+69.0	-123.1
	20	+64.9	-113.3
	50	+59.4	-100.5
	100	+55.2	-90.8
	200	+51.0	-81.0
500	+51.0	-81.0	
2	10	+69.0	-183.1
	20	+64.9	-159.6
	50	+59.4	-128.6
	100	+55.2	-105.1
	200	+51.0	-105.1
500	+51.0	-105.1	
3	10	+69.0	-213.1
	20	+64.9	-184.2
	50	+59.4	-146.0
	100	+55.2	-117.1
	200	+51.0	-117.1
500	+51.0	-117.1	

ZONE	EFFECTIVE WIND AREA, SF	WIND PRESSURE	WIND SUCTION (PSF)
1 O.H.	10	+69.0	-156.1
	20	+64.9	-143.2
	50	+59.4	-126.1
	100	+55.2	-113.2
	200	+51.0	-100.3
500	+51.0	-96.1	
2 O.H. @ ZONE 4	10	+69.0	-216.1
	20	+64.9	-189.4
	50	+59.4	-154.2
	100	+55.2	-127.5
	200	+51.0	-124.3
500	+51.0	-120.1	
2 O.H. @ ZONE 5	10	+69.0	-234.1
	20	+64.9	-204.3
	50	+59.4	-164.8
	100	+55.2	-134.9
	200	+51.0	-128.5
500	+51.0	-120.1	
3 O.H.	10	+69.0	-246.1
	20	+64.9	-214.0
	50	+59.4	-171.6
	100	+55.2	-139.5
	200	+51.0	-136.3
500	+51.0	-132.1	

ZONE	EFFECTIVE WIND AREA, SF	WIND PRESSURE	WIND SUCTION (PSF)
4	10	+93.1	-99.1
	20	+89.9	-95.9
	50	+86.6	-91.6
	100	+82.5	-88.5
	200	+79.3	-85.3
500	+75.0	-81.0	
5	10	+93.1	-117.1
	20	+89.9	-110.7
	50	+85.6	-102.2
	100	+82.5	-95.9
	200	+79.3	-89.5
500	+75.0	-81.0	

"a" = 5'-6"

**NOTES:**  
 1. OVERHANG PRESSURES IN THE TABLE ABOVE ASSUME AN INTERNAL PRESSURE COEFFICIENT (G<sub>CP</sub>) OF 0.0.  
 2. OVERHANG SOFFIT PRESSURE EQUALS ADJ WALL PRESSURE (WHICH INCLUDES INTERNAL PRESSURE OF 35.3 PSF).



**EXIST. COTTONDALE FIRE STATION  
 C&C ROOF WIND LOAD DIAGRAM**  
 SCALE: 3/16" = 1'-0"

**COMPONENTS AND CLADDING WIND PRESSURES  
 FOR EXIST. FIRE STATION GABLE ROOF - SLOPE ±1:12**

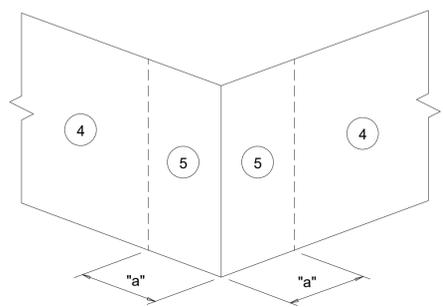
ZONE	EFFECTIVE WIND AREA, SF	WIND PRESSURE	WIND SUCTION (PSF)
1 & 1' O.H.	10	+18.1	-64.1
	20	+17.0	-62.9
	50	+16.0	-61.4
	100	+16.0	-60.3
	200	+16.0	-50.5
500	+16.0	-37.7	
2 O.H.	10	+18.1	-86.7
	20	+17.0	-78.6
	50	+16.0	-68.1
	100	+16.0	-60.0
	200	+16.0	-52.0
500	+16.0	-41.4	
3 O.H.	10	+18.1	-120.6
	20	+17.0	-106.5
	50	+16.0	-88.0
	100	+16.0	-74.0
	200	+16.0	-60.0
500	+16.0	-41.4	

"h" = 18'-0"; "0.6h" = 11'-0"; "0.2h" = 4'-0"

**NOTES:**  
 1. OVERHANG PRESSURES IN THE TABLE ABOVE ASSUME AN INTERNAL PRESSURE COEFFICIENT (G<sub>CP</sub>) OF 0.0.  
 2. OVERHANG SOFFIT PRESSURE EQUALS ADJ WALL PRESSURE (WHICH INCLUDES INTERNAL PRESSURE OF 6.8 PSF).

ZONE	EFFECTIVE WIND AREA, SF	WIND PRESSURE	WIND SUCTION (PSF)
1	10	+18.1	-70.8
	20	+17.0	-66.2
	50	+16.0	-60.0
	100	+16.0	-55.3
	200	+16.0	-50.6
500	+16.0	-44.5	
1'	10	+18.1	-40.7
	20	+17.0	-40.7
	50	+16.0	-40.7
	100	+16.0	-40.7
	200	+16.0	-35.0
500	+16.0	-27.5	
2	10	+18.1	-93.4
	20	+17.0	-87.4
	50	+16.0	-79.5
	100	+16.0	-73.5
	200	+16.0	-67.5
500	+16.0	-59.5	
3	10	+18.1	-127.4
	20	+17.0	-115.3
	50	+16.0	-99.4
	100	+16.0	-87.4
	200	+16.0	-75.4
500	+16.0	-59.5	

"h" = 18'-0"; "0.6h" = 11'-0"; "0.2h" = 4'-0"



**C&C WALL DIAGRAM**

**COMPONENTS AND CLADDING WIND PRESSURES  
 FOR POLICE STATION MONOSLOPE ROOF - SLOPE 6:12**

ZONE	EFFECTIVE WIND AREA, SF	WIND PRESSURE	WIND SUCTION (PSF)
3 O.H.	10	+69.0	-258.1
	20	+64.9	-235.5
	50	+59.4	-205.6
	100	+55.2	-182.9
	200	+51.0	-176.5
500	+51.0	-168.1	

"a" = 5'-6"

**NOTES:**  
 1. OVERHANG PRESSURES IN THE TABLE ABOVE ASSUME AN INTERNAL PRESSURE COEFFICIENT (G<sub>CP</sub>) OF 0.0.  
 2. OVERHANG SOFFIT PRESSURE EQUALS ADJ WALL PRESSURE (WHICH INCLUDES INTERNAL PRESSURE OF 35.3 PSF).

**WALL ULTIMATE WIND PRESSURES**

ZONE	EFFECTIVE WIND AREA, SF	WIND PRESSURE	WIND SUCTION (PSF)
4	10	+40.7	-44.1
	20	+38.9	-42.3
	50	+36.5	-39.9
	100	+34.7	-38.1
	200	+32.9	-36.3
500	+30.5	-33.9	
5	10	+40.7	-54.3
	20	+38.9	-50.7
	50	+36.5	-45.9
	100	+34.7	-42.3
	200	+32.9	-38.7
500	+30.5	-33.9	

"a" = 4'-6"

**NOTE:**  
 1. G<sub>CP</sub> REDUCED BY 10% DUE TO ROOF ANGLE ≤ 10 DEGREES.

SHEET WIND LOAD DIAGRAMS AND PRESSURES  
 FOR THE CITY OF COTTONDALE  
 FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
 DATE: OCT. 31, 2025  
 DRAWN BY: AMM  
 CHECKED BY: KMH

SHEET No.  
**S-1.0**  
 100% COMPLETE  
 CONSTRUCTION DOCUMENTS

**DHM**  
 MELVIN ENGINEERING  
 TALLAHASSEE OFFICE  
 2541-1 BARRINGTON CIRCLE  
 TALLAHASSEE, FLORIDA 32308  
 Phone: 850.671.7221

**EXPANSIVE CLAY NOTE**

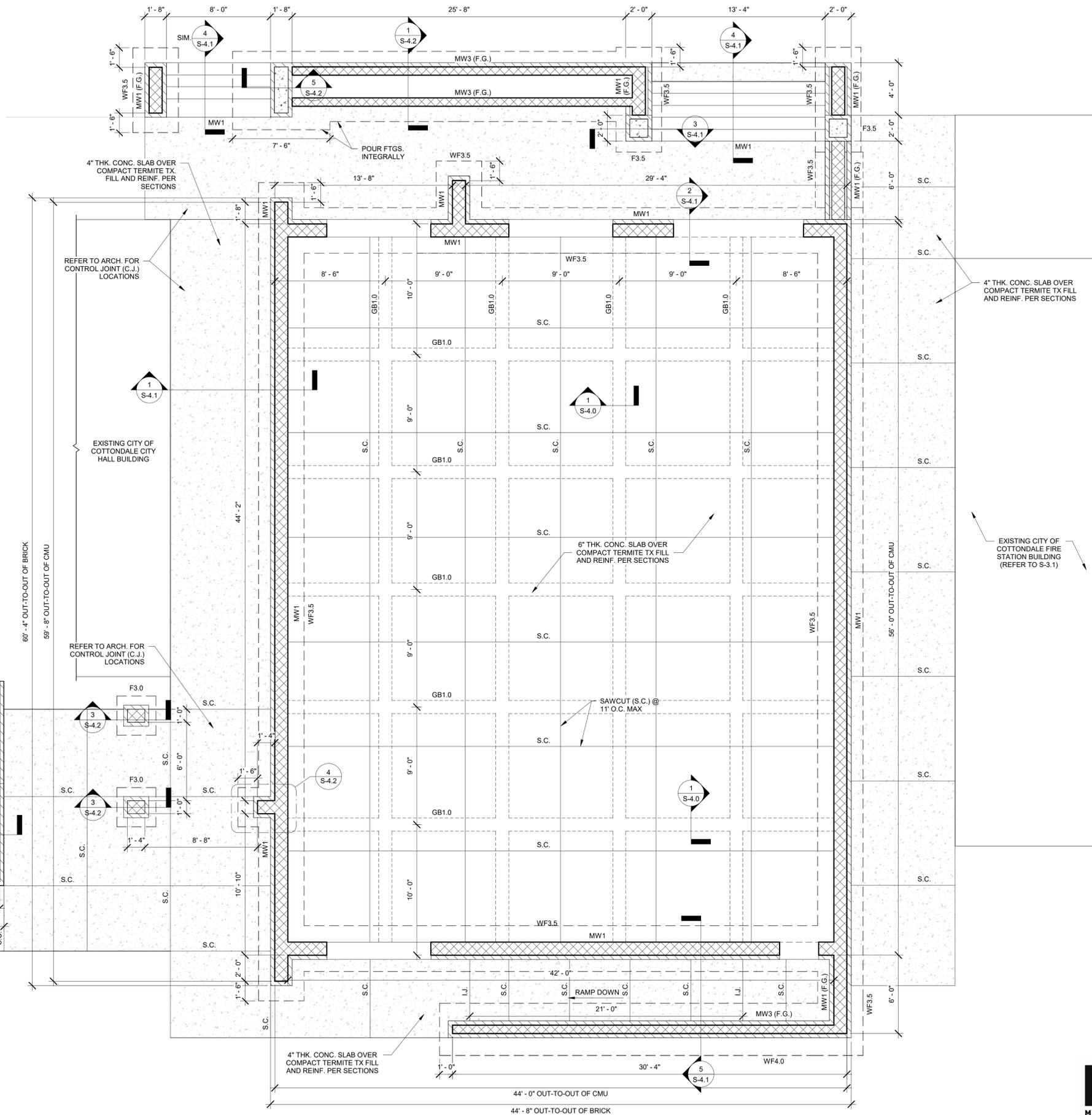
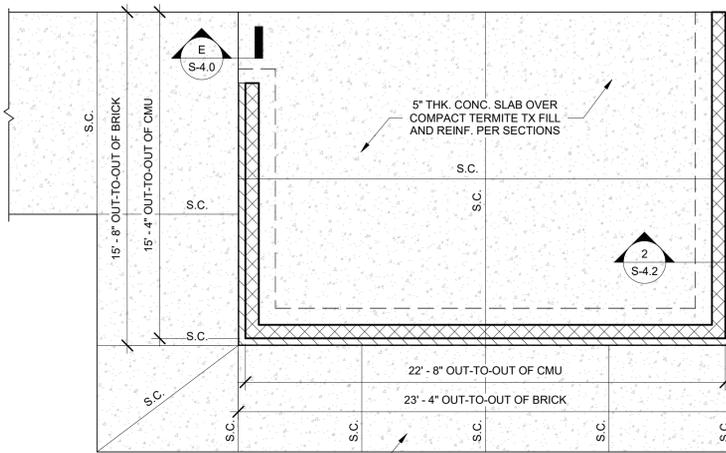
1. WHEN EXPANSIVE CLAY IS ENCOUNTERED, AT A MINIMUM OVEREXCAVATE CLAY TO A DEPTH OF 24-INCHES BELOW SLABS AND 24-INCHES BELOW BOTTOM OF FOOTINGS AND FILL WITH APPROVED FILL AS OUTLINED IN THE GEOTECHNICAL REPORT.

**FOUNDATION PLAN NOTES:**

1. SEE FOUNDATION NOTES ON SHEET S-0.0.
2. SEE ARCHITECTURAL FOR WALLS AND DIMENSIONS NOT SHOWN.
3. SEE ARCHITECTURAL FOR ALL DOOR AND WINDOWS OPENING SIZES AND LOCATIONS.
4. SEE ARCHITECTURAL FOR LOCATIONS AND EXTENTS OF RECESSED AND SLOPED SLABS.
5. COLUMNS AND WALLS ARE CENTERED ON FOOTINGS UNLESS NOTED OR SHOWN OTHERWISE.
6. ALL SLABS ARE AT +0'-0" UNLESS NOTED OTHERWISE. SEE CIVIL DRAWINGS FOR FINISH FLOOR ELEVATION.
7. TOPS OF ALL FOOTINGS ARE LOCATED AT 4'-8" BELOW FINISH FLOOR EXCEPT WHERE NOTED OTHERWISE. SEE FOUNDATION PLAN FOR FOUNDATION STEPS, SECTIONS, AND TOP OF FOOTING VARIATIONS.
8. SEE PLUMBING AND ARCHITECTURAL FOR ALL FLOOR SLAB PENETRATIONS. COORDINATE LOCATIONS TO AVOID CONFLICT WITH FOUNDATIONS AND WALLS.
9. SEE PLUMBING AND ARCHITECTURAL FOR ALL FLOOR DRAINS. COORDINATE LOCATIONS TO AVOID CONFLICT WITH FOUNDATIONS AND WALLS.

**SHEET LEGEND:**

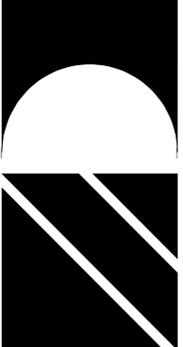
- U.N.O. = UNLESS NOTED OTHERWISE
- A.F.F. = ABOVE FINISH FLOOR
- S.C. = SAWCUT
- B.F.F. = BELOW FINISH FLOOR
- T.O.F. = TOP OF FOOTING
- F.F. = FINISH FLOOR
- PLCS. = PLACES
- W.C.J. = WALL CONTROL JOINT
- F.G. = FULLY GROUTED



KIMBERLY M. HOLLOWAY, P.E.  
FLORIDA REG. NO. 69166

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE, REPRODUCTION, OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF DONOFRO ARCHITECTS IS STRICTLY PROHIBITED. ANY VIOLATION WILL BE SUBJECT TO LEGAL ACTION.

**DONOFRO ARCHITECTS**  
P.O. BOX 861  
MARIANNA, FL 32447  
OFFICE: (850) 482-5261



SHEET FOUNDATION PLAN  
TITLE: NEW POLICE STATION  
FOR THE CITY OF COTTONDALE  
FRONT ST. COTTONDALE, FLORIDA

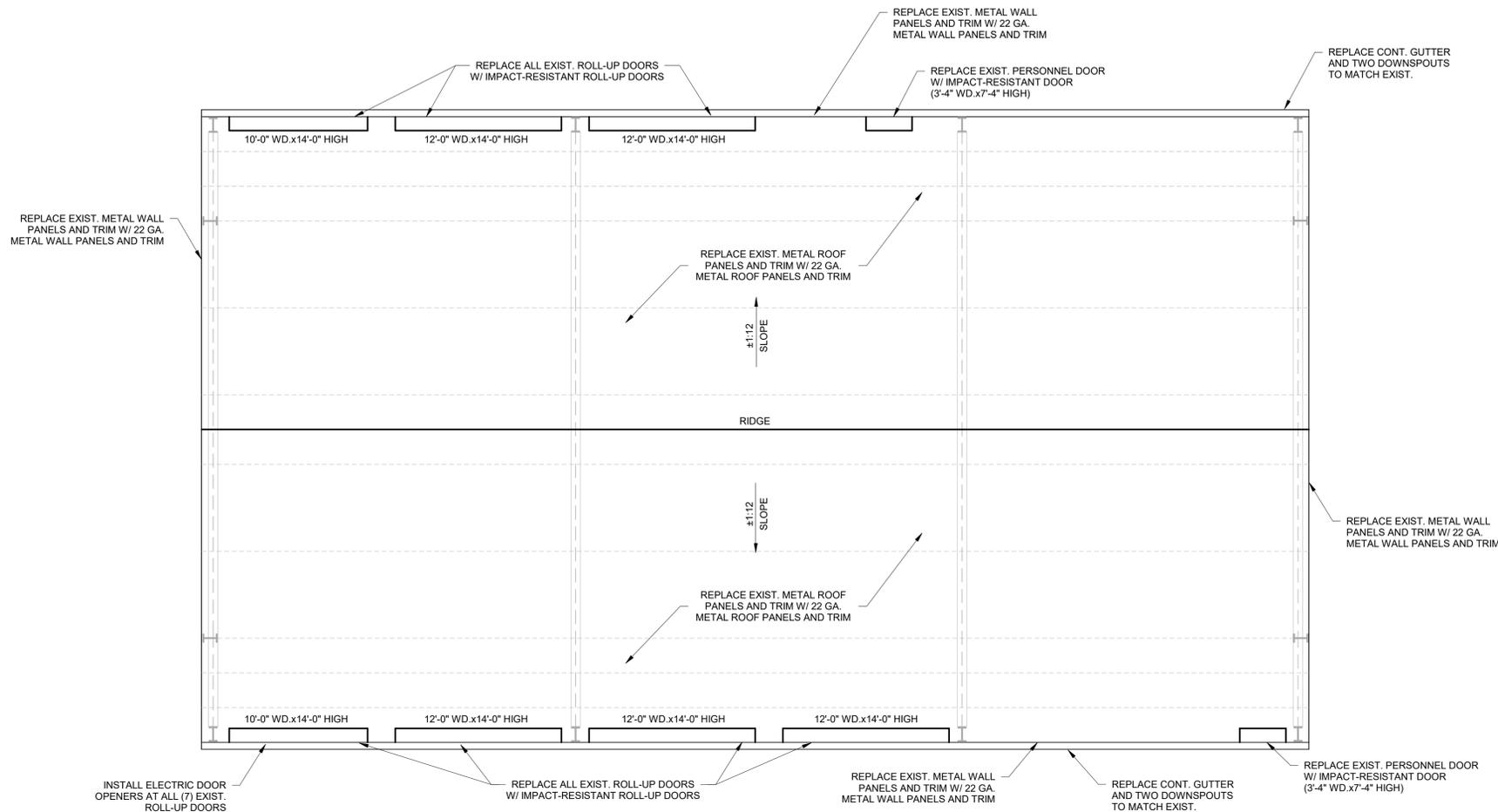
JOB NUMBER: M-2024-13  
DATE: OCT. 31, 2025  
DRAWN BY: AMM  
CHECKED BY: KMH

SHEET No.  
**S-2.0**  
100% COMPLETE  
CONSTRUCTION DOCUMENTS

**DHM**  
MELVIN ENGINEERING  
TALLAHASSEE OFFICE  
2541-1 BARRINGTON CIRCLE  
TALLAHASSEE, FLORIDA 32308  
Phone: 850.671.7221

**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"





EXIST. COTTONDALE FIRE STATION  
REPAIR PLAN

SCALE: 3/16" = 1'-0"

- NOTES:
1. REPLACE EXISTING HVAC SYSTEM WITH NEW HVAC SYSTEM TO MATCH EXISTING.
  2. INSTALL LARGE GAS HEATER IN APPARATUS BAYS.
  3. REPLACE ROOF INSULATION TO MATCH EXISTING.
  4. DO NOT INSTALL SKYLIGHTS IN NEW ROOF PANELS.

KIMBERLY M. HOLLOWAY, P.E.  
FLORIDA REG. NO. 69166

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS AND ASSOCIATES, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE OR MODIFICATION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF DONOFRO ARCHITECTS AND ASSOCIATES, INC. IS STRICTLY PROHIBITED.

**DONOFRO ARCHITECTS**  
2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261

P.O. BOX 861  
MARIANNA, FL 32447  
FAX: (850) 482-8609

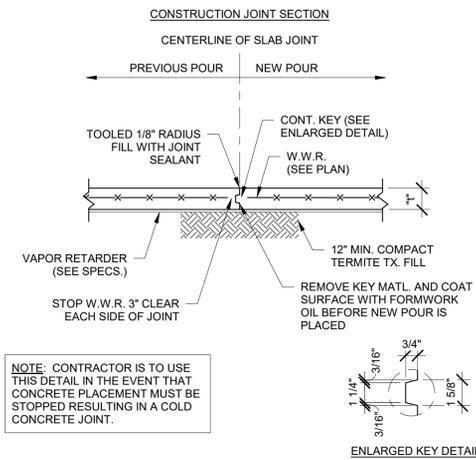


SHEET TITLE: EXISTING FIRE STATION REPAIR PLAN  
FOR THE CITY OF COTTONDALE  
FRONT ST. COTTONDALE, FLORIDA

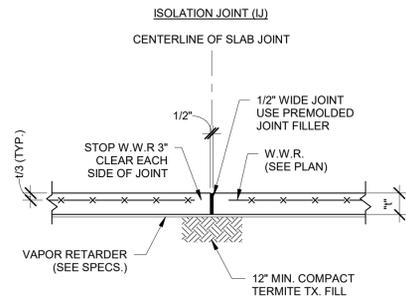
JOB NUMBER: M-2024-13  
DATE: OCT. 31, 2025  
DRAWN BY: AMM  
CHECKED BY: KMH

SHEET No.  
**S-3.1**  
100% COMPLETE  
CONSTRUCTION DOCUMENTS

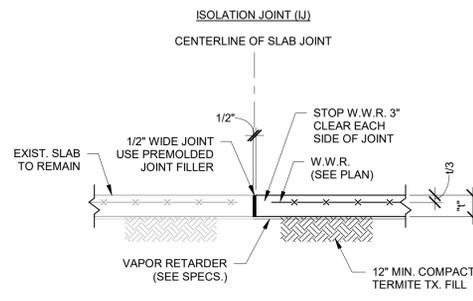
**DHM**  
MELVIN ENGINEERING  
TALLAHASSEE OFFICE  
2541-1 BARRINGTON CIRCLE  
TALLAHASSEE, FLORIDA 32308  
Phone: 850.671.7221



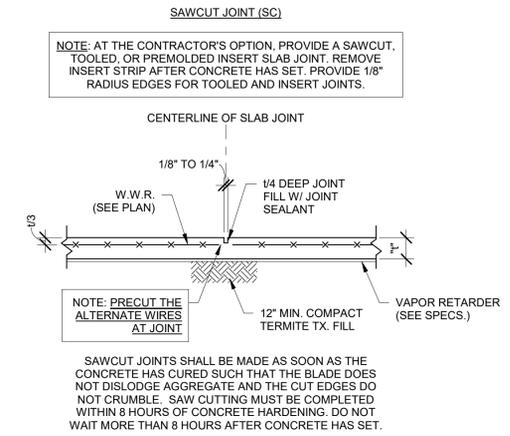
**A CONSTRUCTION JOINT (CJ)**  
S-4.0 SCALE: 3/4" = 1'-0"



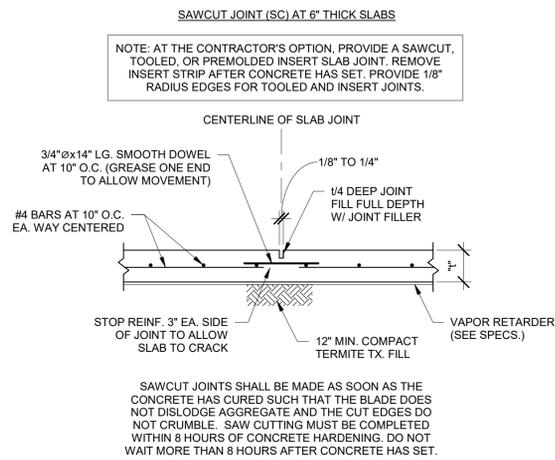
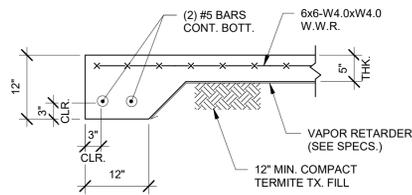
**B ISOLATION JOINT (IJ)**  
S-4.0 SCALE: 3/4" = 1'-0"



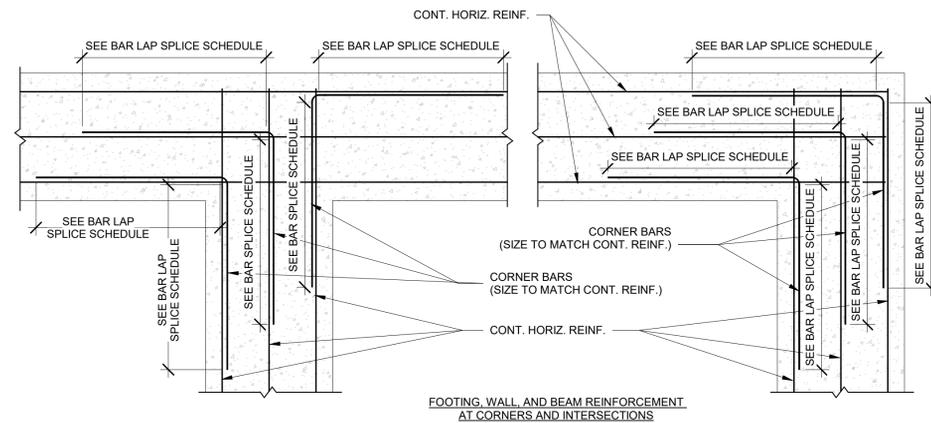
**C ISOLATION JOINT (IJ)**  
S-4.0 SCALE: 3/4" = 1'-0"



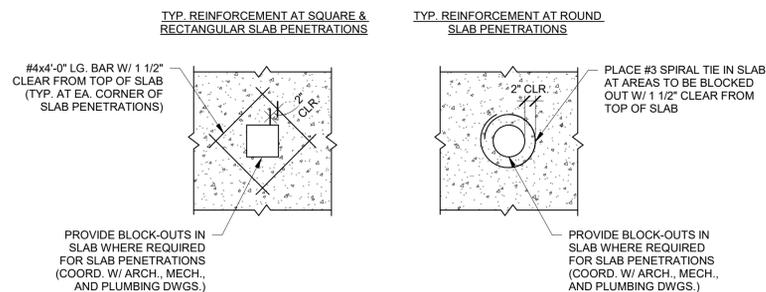
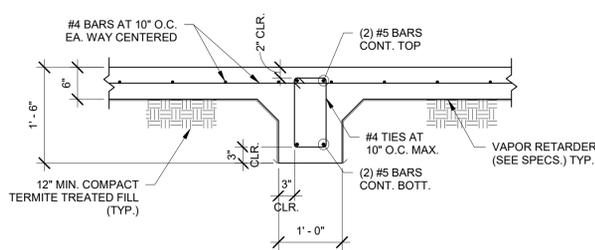
**D SAWCUT JOINT (SC)**  
S-4.0 SCALE: 3/4" = 1'-0"



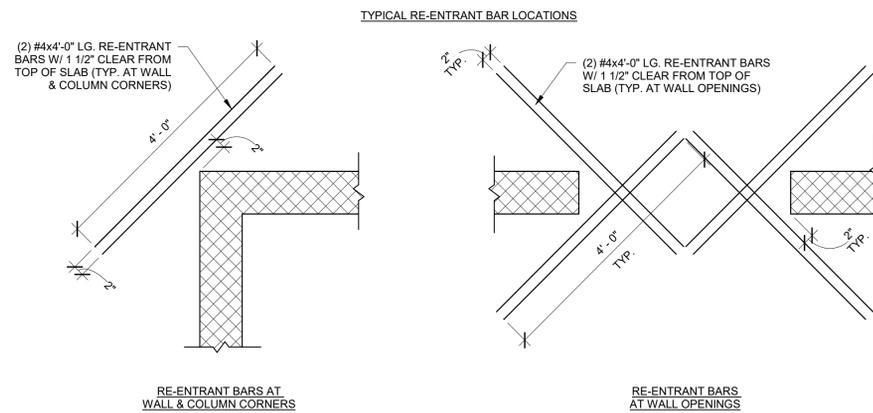
**F SECTION**  
S-4.0 SCALE: 3/4" = 1'-0"



**G SECTION**  
S-4.0 SCALE: 3/4" = 1'-0"



**2 SECTION**  
S-4.0 SCALE: 3/4" = 1'-0"



**RE-ENTRANT BAR NOTES:**  
(2) #4x4'-0" LONG RE-ENTRANT BARS SHALL BE INSTALLED AT ALL SLAB CORNERS, COLUMN BLOCK-OUT CORNERS, AND WHERE SAWCUT JOINTS ARE NOT INSTALLED IN BOTH DIRECTIONS TO REDUCE CRACK WIDTHS OR ELIMINATE CRACKS FROM FORMING IN THE SLAB AT THOSE RE-ENTRANT CORNERS.

**3 SECTION**  
S-4.0 SCALE: 3/4" = 1'-0"

**DHM**  
MELVIN ENGINEERING  
TALLAHASSEE OFFICE  
2541-1 BARRINGTON CIRCLE  
TALLAHASSEE, FLORIDA 32308  
Phone: 850.671.7221

KIMBERLY M. HOLLOWAY, P.E.  
FLORIDA REG. NO. 69166

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE, REPRODUCTION, OR DISTRIBUTION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF DONOFRO ARCHITECTS IS PROHIBITED. ANY SUCH ACTION SHALL BE SUBJECT TO LEGAL ACTION.

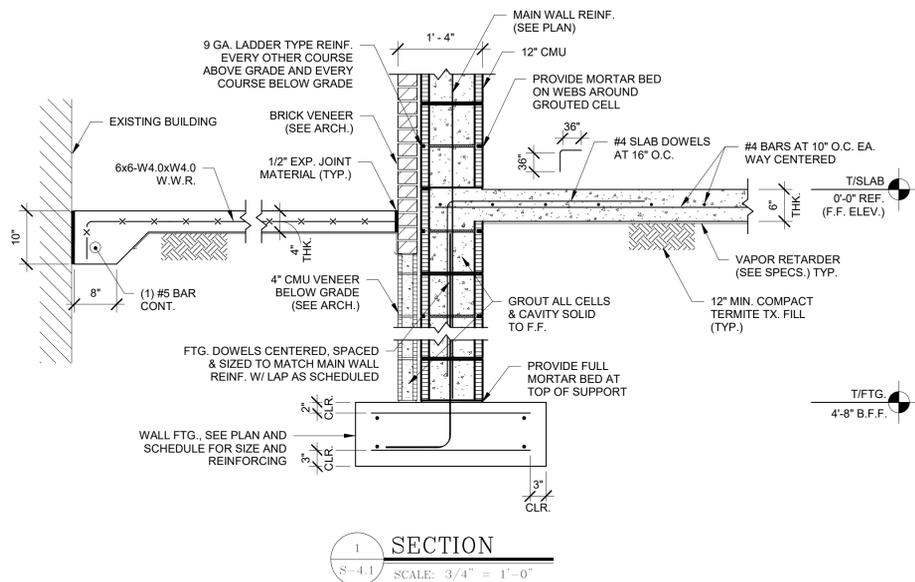
**DONOFRO ARCHITECTS**  
2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261  
P.O. BOX 861  
MARIANNA, FL 32447  
FAX: (850) 482-8609



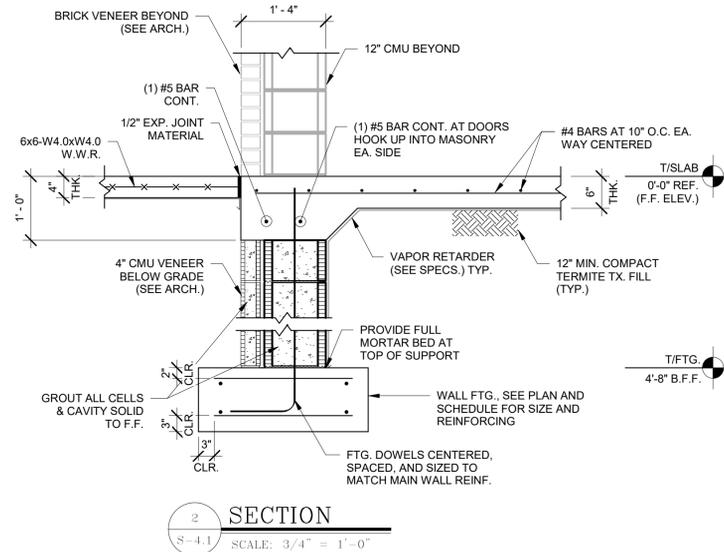
SHEET FOUNDATION SECTIONS  
TITLE: NEW POLICE STATION  
FOR THE CITY OF COTTONDALE  
FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
DATE: OCT. 31, 2025  
DRAWN BY: AMM  
CHECKED BY: KMH

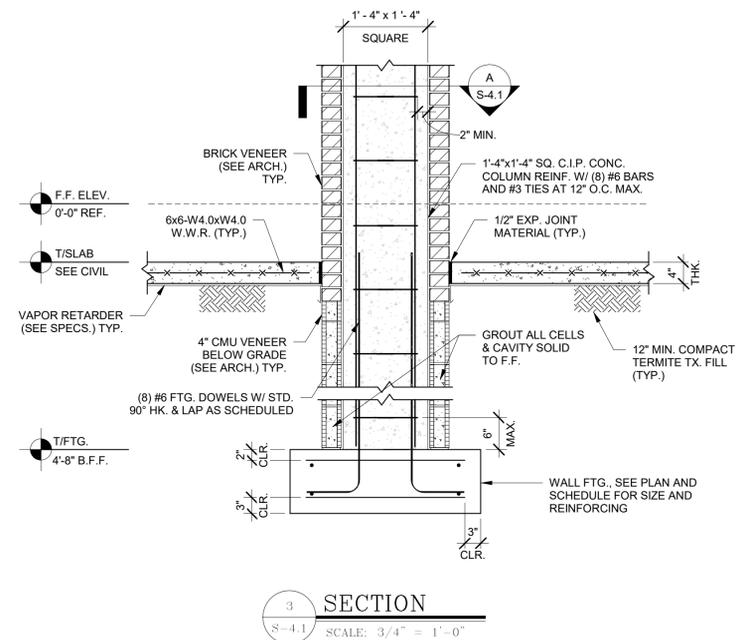
SHEET No.  
**S-4.0**  
100% COMPLETE  
CONSTRUCTION DOCUMENTS



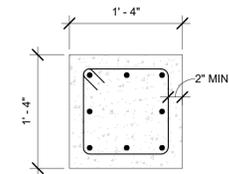
SECTION 1  
S-4.1 SCALE: 3/4" = 1'-0"



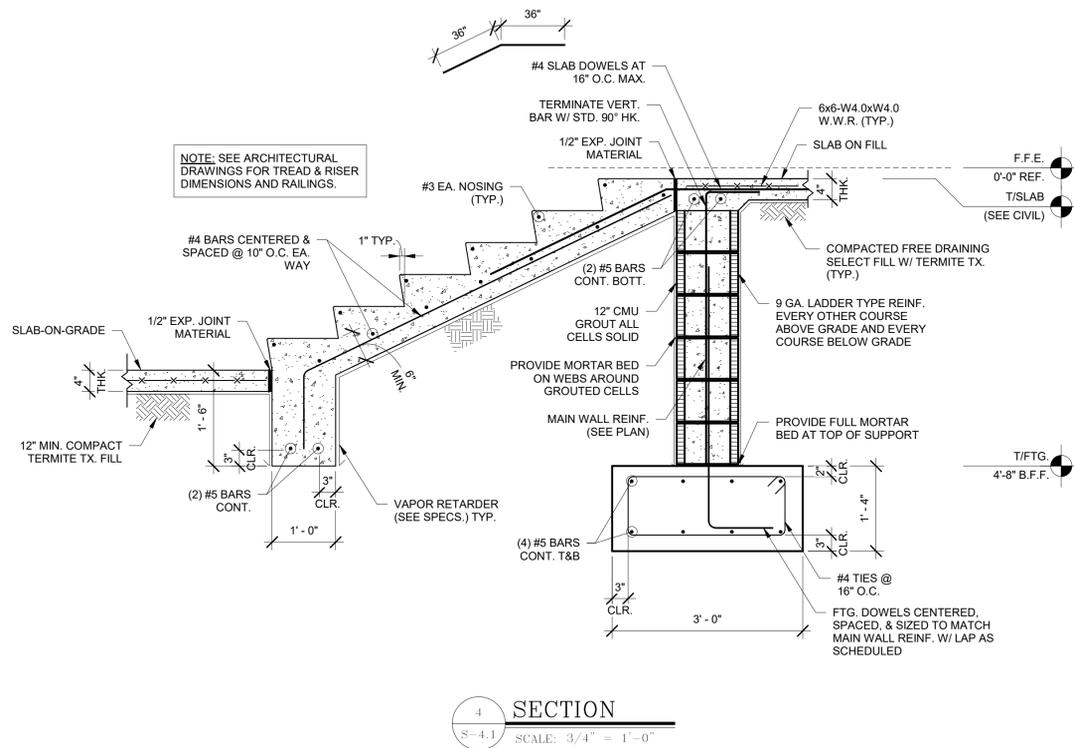
SECTION 2  
S-4.1 SCALE: 3/4" = 1'-0"



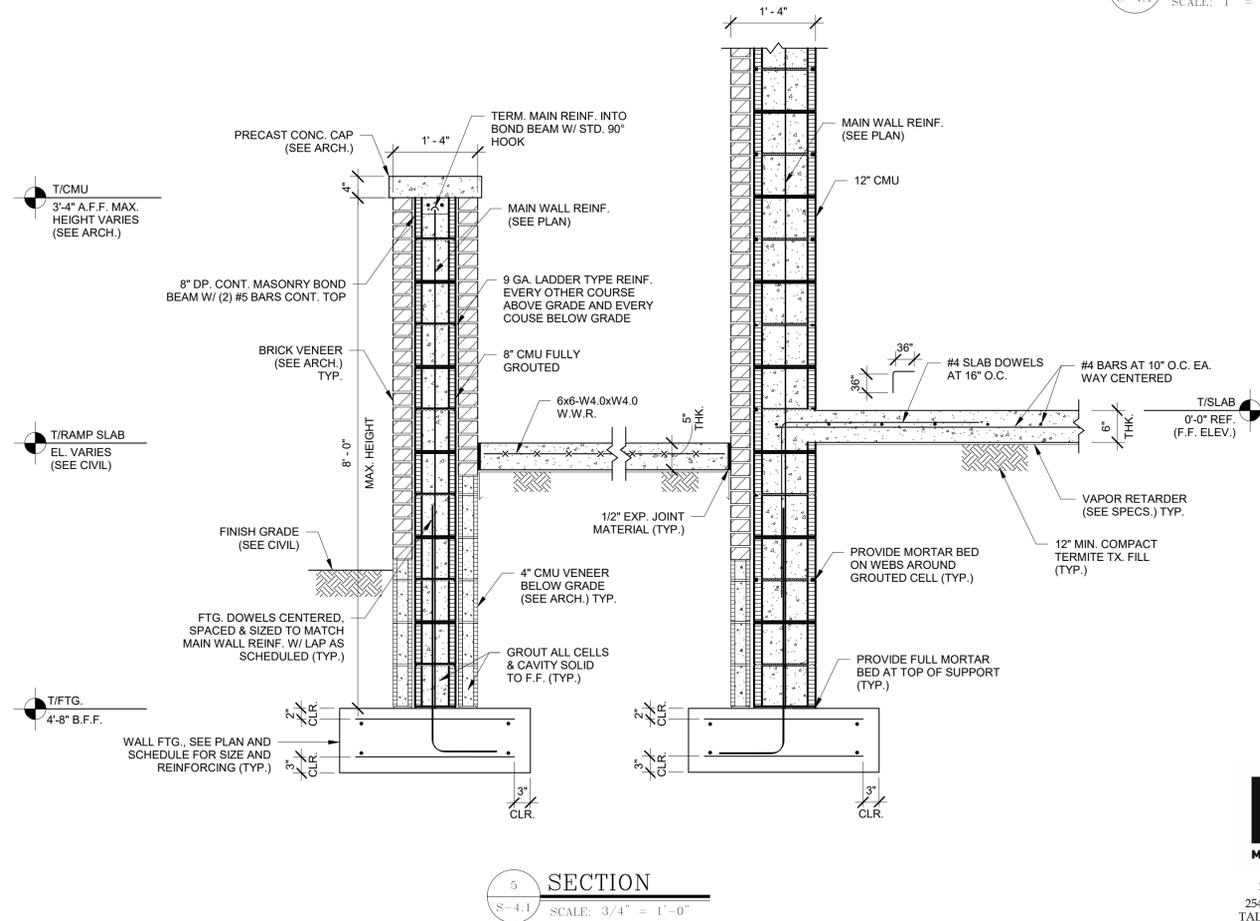
SECTION 3  
S-4.1 SCALE: 3/4" = 1'-0"



SECTION A  
S-4.1 SCALE: 1" = 1'-0"



SECTION 4  
S-4.1 SCALE: 3/4" = 1'-0"



SECTION 5  
S-4.1 SCALE: 3/4" = 1'-0"

KIMBERLY M. HOLLOWAY, P.E.

FLORIDA REG. NO. 69166

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. NO PART OF THIS DRAWING IS TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF DONOFRO ARCHITECTS.

**DONOFRO ARCHITECTS**

2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261

P.O. BOX 861  
MARIANNA, FL 32447  
FAX: (850) 482-8609

SHEET FOUNDATION SECTIONS  
TITLE: NEW POLICE STATION  
FOR THE CITY OF COTTONDALE  
FRONT ST. COTTONDALE, FLORIDA

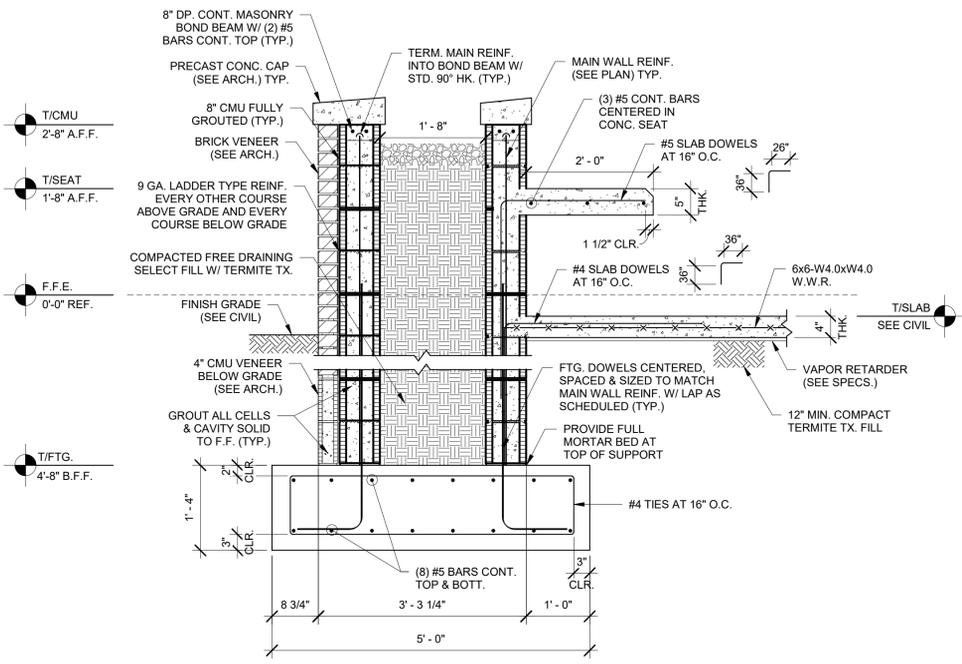
JOB NUMBER: M-2024-13  
DATE: OCT. 31, 2025  
DRAWN BY: AMM  
CHECKED BY: KMH

SHEET No.

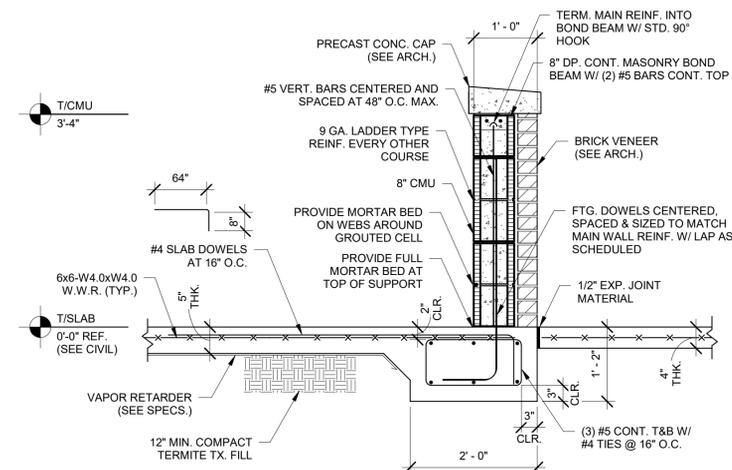
**S-4.1**

100% COMPLETE  
CONSTRUCTION DOCUMENTS

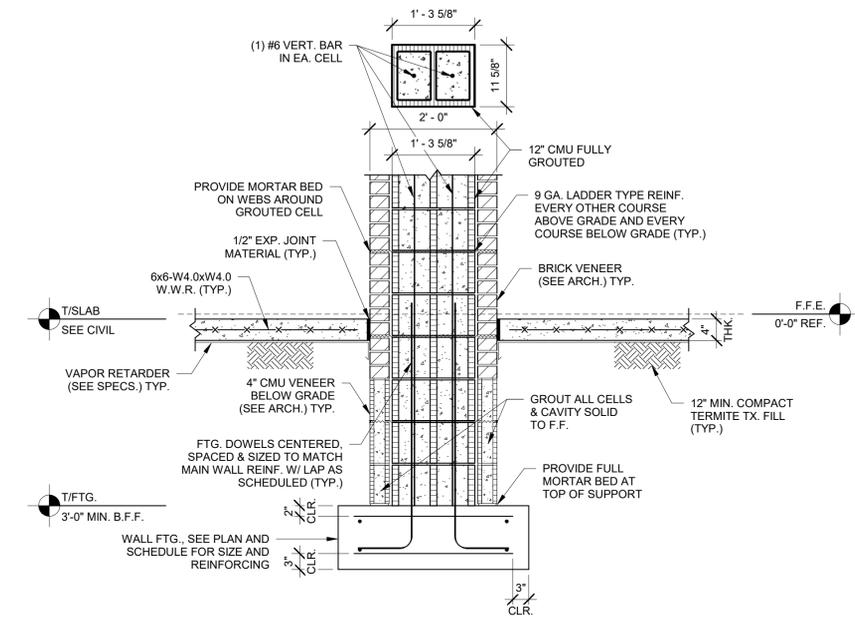
**DHM**  
MELVIN ENGINEERING  
TALLAHASSEE OFFICE  
2541-1 BARRINGTON CIRCLE  
TALLAHASSEE, FLORIDA 32308  
Phone: 850.671.7221



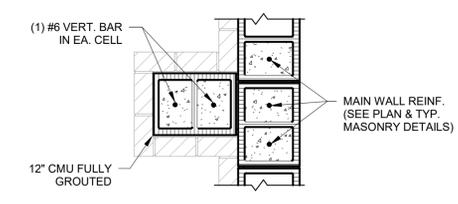
**SECTION 1**  
S-4.2 SCALE: 3/4" = 1'-0"



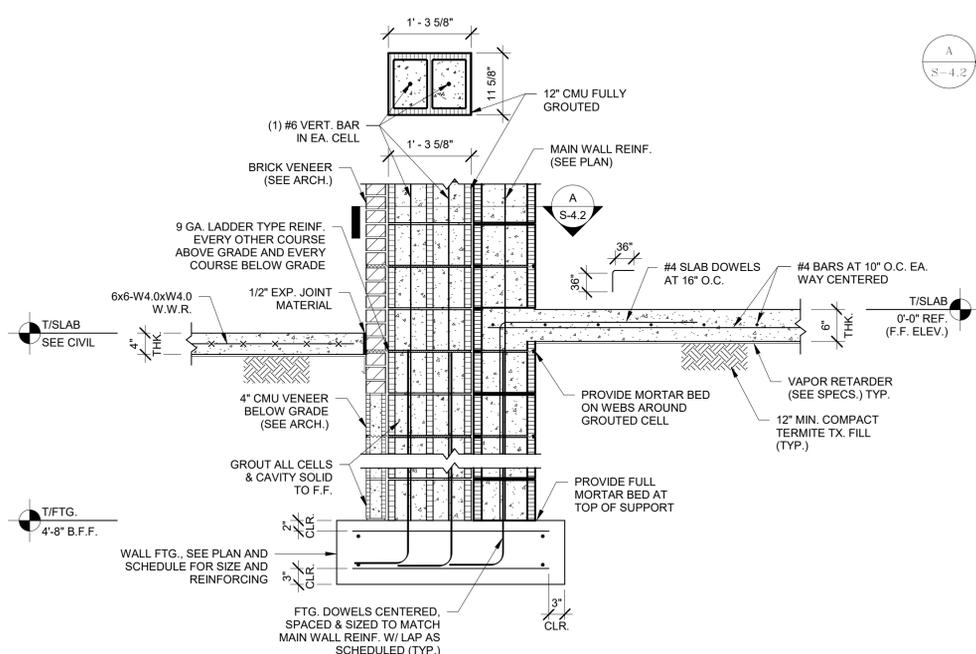
**SECTION 2**  
S-4.2 SCALE: 3/4" = 1'-0"



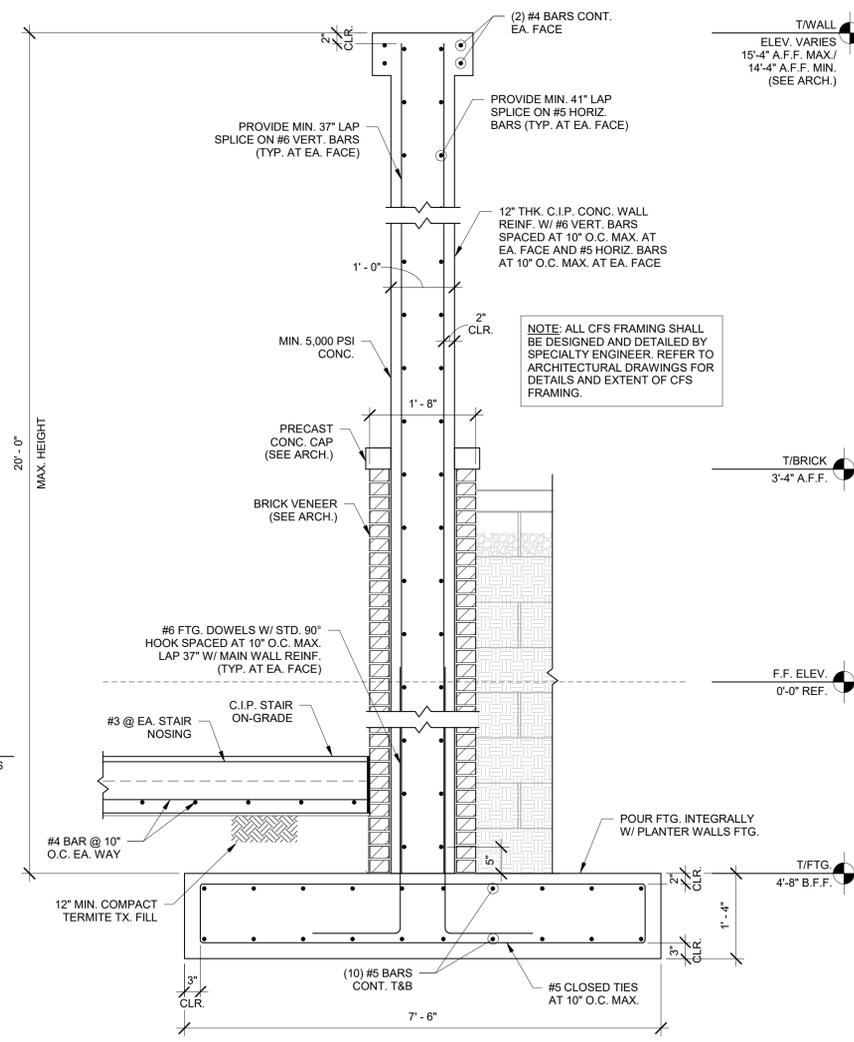
**SECTION 3**  
S-4.2 SCALE: 3/4" = 1'-0"



**SECTION A**  
S-4.2 SCALE: 3/4" = 1'-0"



**SECTION 4**  
S-4.2 SCALE: 3/4" = 1'-0"



**SECTION 5**  
S-4.2 SCALE: 3/4" = 1'-0"

KIMBERLY M. HOLLOWAY, P.E.  
FLORIDA REG. NO. 69166

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. NO PART OF THIS DRAWING IS TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF DONOFRO ARCHITECTS. SUBJECT TO LOCAL ACTION.

**DONOFRO ARCHITECTS**  
2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261  
P.O. BOX 861  
MARIANNA, FL 32447  
FAX: (850) 482-8609

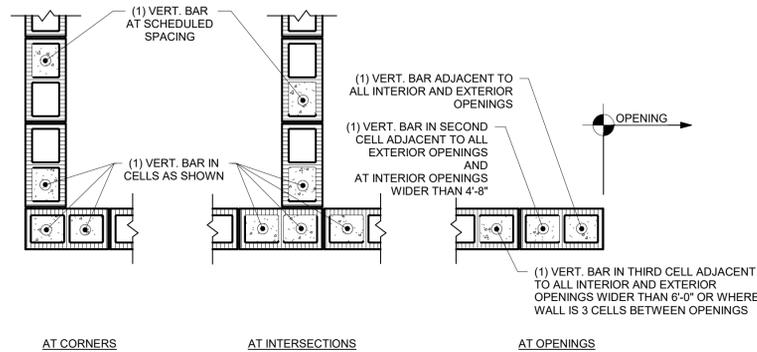


SHEET FOUNDATION SECTIONS  
TITLE: NEW POLICE STATION  
FOR THE CITY OF COTTONDALE  
FRONT ST. COTTONDALE, FLORIDA

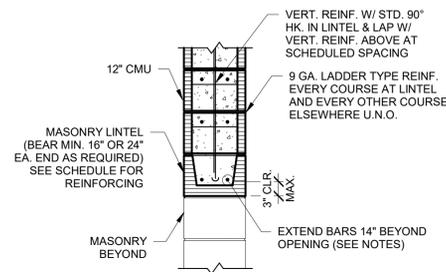
JOB NUMBER: M-2024-13  
DATE: OCT. 31, 2025  
DRAWN BY: AMM  
CHECKED BY: KMH

SHEET No.  
**S-4.2**  
100% COMPLETE  
CONSTRUCTION DOCUMENTS

**DHM**  
MELVIN ENGINEERING  
TALLAHASSEE OFFICE  
2541-1 BARRINGTON CIRCLE  
TALLAHASSEE, FLORIDA 32308  
Phone: 850.671.7221



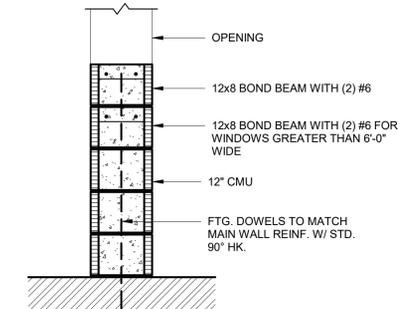
**A MASONRY WALL REINFORCING**  
SCALE: 3/4" = 1'-0"



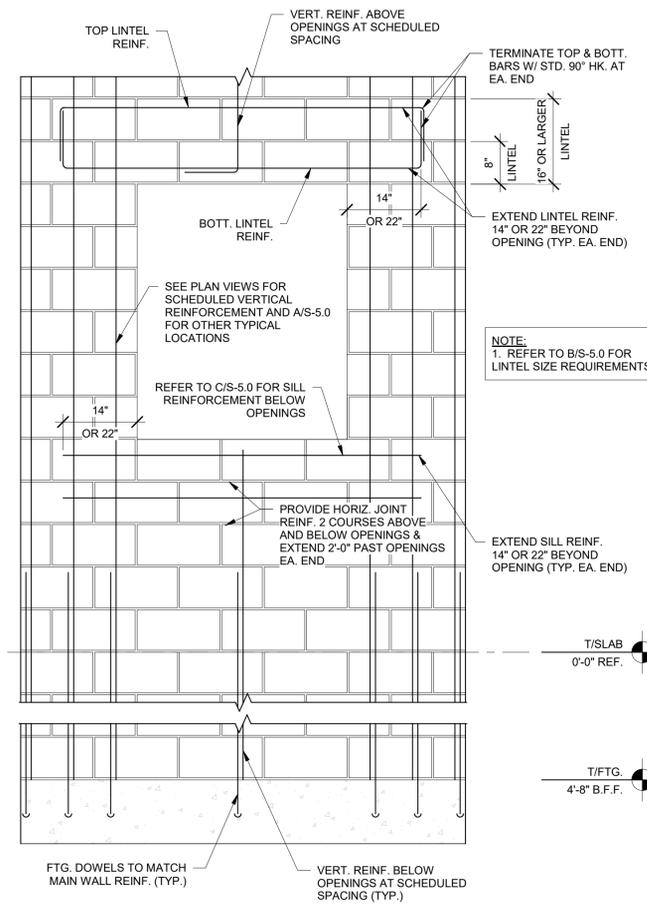
**B LINTEL REINFORCEMENT**  
SCALE: 3/4" = 1'-0"

LINTEL SCHEDULE				
MAX. CLR. SPAN (LOCATION)	MIN. DEPTH	TOP REINF.	BOTT. REINF.	VERTICAL
3'-4" (EXTERIOR)	16"	(2) #6	(2) #6	-
8'-0" (EXTERIOR)	16"	(2) #6	(2) #6	-
10'-0" (EXTERIOR)	24"	(2) #6	(2) #6	-

- NOTES:**
- WHERE ADJACENT MASONRY OPENINGS ARE LESS THAN OR EQUAL TO 2'-8" APART, THE MASONRY LINTEL INCLUDING REINFORCING SHALL BE CONT. FULL SPAN OF ADJACENT OPENINGS PLUS END BEARING.
  - IF OPENING OCCURS WITHIN 16" OF WALL CORNER, INSTALL CORNER BARS IN ADDITION TO CONTINUOUS LINTEL REINFORCEMENT.
  - FOR 16" LINTEL BEARING, EXTEND REINFORCING 14" BEYOND FACE OF SUPPORT, AND FOR 24" LINTEL BEARING, EXTEND REINFORCING 22" BEYOND FACE OF SUPPORT.



**C SILL REINFORCEMENT**  
SCALE: 3/4" = 1'-0"

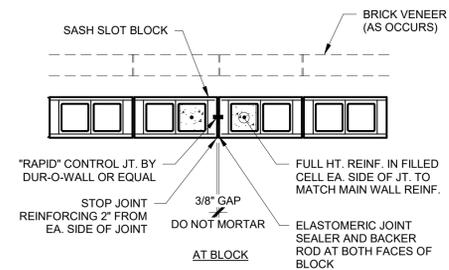


**D MASONRY WALL OPENING**  
SCALE: 3/4" = 1'-0"

MASONRY REINFORCING LAP & BEND SCHEDULE			
BAR SIZE	STANDARD LAP LENGTH	STANDARD HOOKS	
	MASONRY	DIAMETER D	LENGTH A
#2	12"	1 1/2"	2"
#3	18"	2 1/4"	6"
#4	24"	3"	8"
#5	30"	3 3/4"	10"
#6	38"	4 1/2"	12"
#7	52"	5 1/4"	14"
#8	79"	6"	16"

**E LAP AND BEND SCHEDULE**  
SCALE: 3/4" = 1'-0"

- NOTES:**
- DO NOT EXTEND WALL CONTROL JOINTS THROUGH BOND BEAMS OR TIE BEAMS.
  - REFER TO CONCRETE MASONRY NOTE #18 ON SHEET S-0.1 FOR SPACING GUIDELINES.
  - REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS FOR LOCATIONS IN THE BRICK VENEER.



**F WALL CONTROL JOINT**  
SCALE: 3/4" = 1'-0"

KIMBERLY M. HOLLOWAY, P.E.  
FLORIDA REG. NO. 69166

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF DONOFRO ARCHITECTS. SUBJECT TO U.S. PATENT AND TRADEMARK OFFICE.

**DONOFRO ARCHITECTS**  
2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261  
P.O. BOX 861  
MARIANNA, FL 32447  
FAX: (850) 482-8609

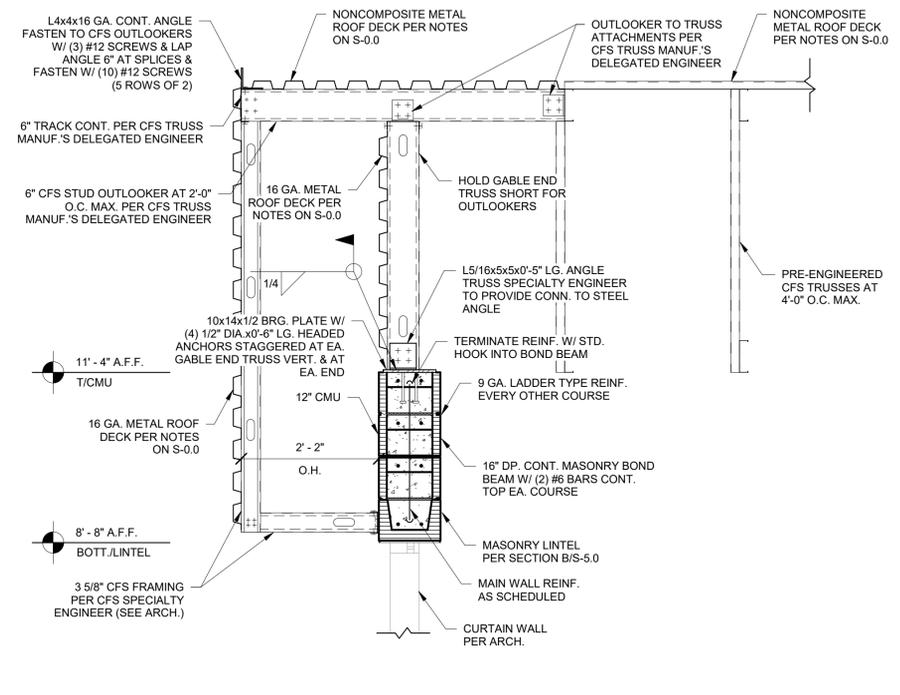
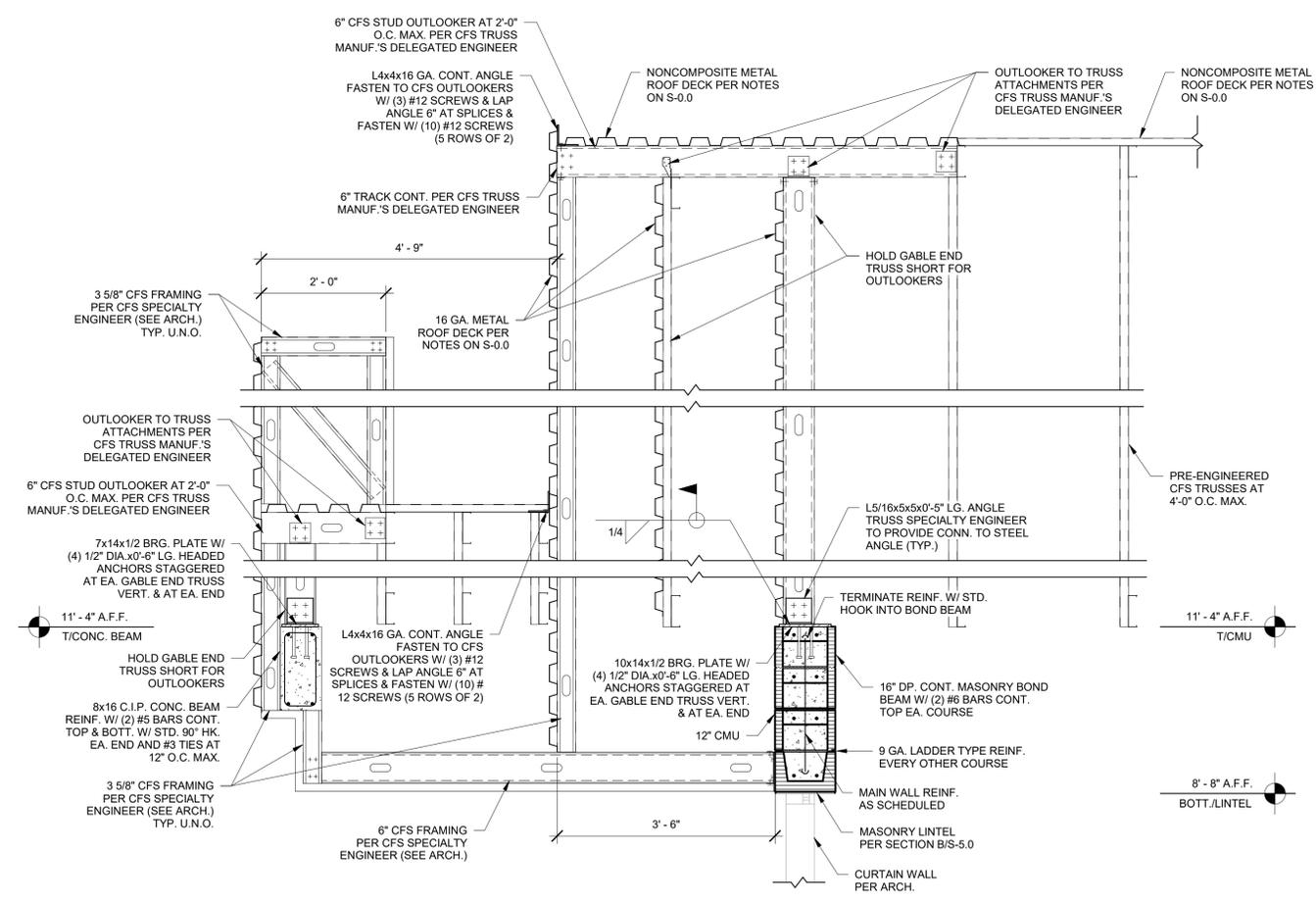
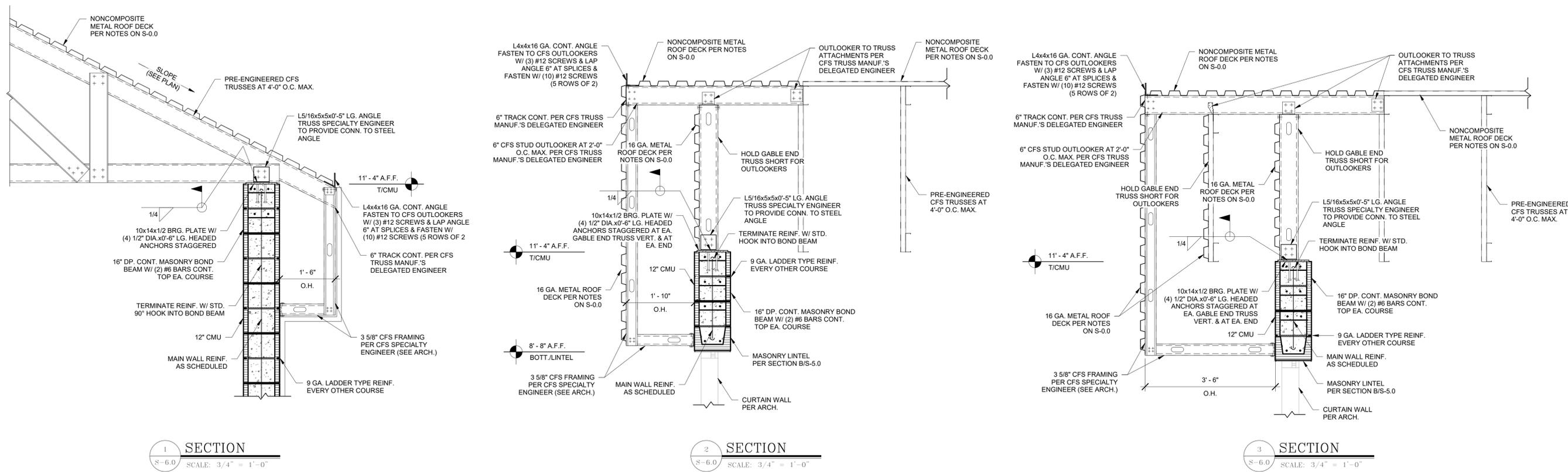


SHEET: MASONRY SECTIONS  
TITLE: NEW POLICE STATION  
FOR THE CITY OF COTTONDALE  
FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
DATE: OCT. 31, 2025  
DRAWN BY: AMM  
CHECKED BY: KMH

SHEET No.  
**S-5.0**  
100% COMPLETE  
CONSTRUCTION DOCUMENTS

**DHM**  
MELVIN ENGINEERING  
TALLAHASSEE OFFICE  
2541-1 BARRINGTON CIRCLE  
TALLAHASSEE, FLORIDA 32308  
Phone: 850.671.7221



KIMBERLY M. HOLLOWAY, P.E.  
FLORIDA REG. NO. 69166

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS, INC. AND IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF DONOFRO ARCHITECTS, INC. SUBJECT TO LOCAL, STATE, AND FEDERAL LAWS.

**DONOFRO ARCHITECTS**  
P.O. BOX 861  
MARIANNA, FL 32447  
OFFICE: (850) 482-5261

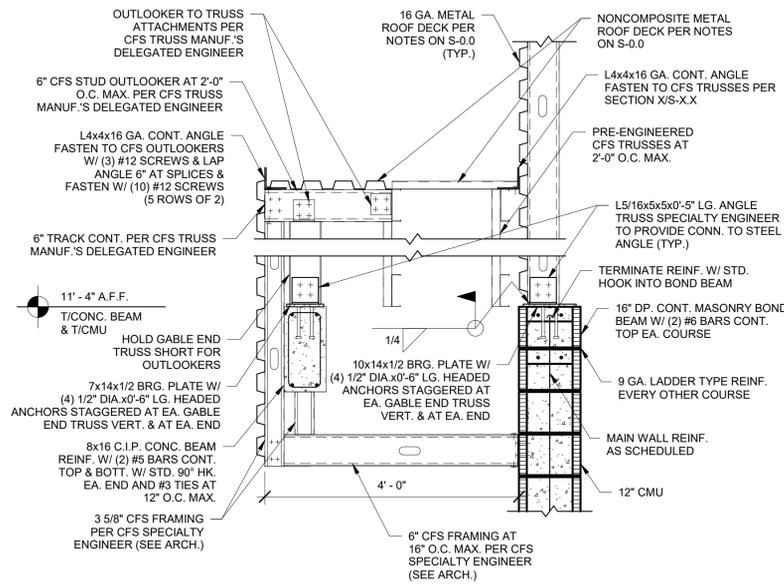
2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261

SHEET FRAMING SECTIONS  
TITLE: NEW POLICE STATION  
FOR THE CITY OF COTTONDALE  
FRONT ST. COTTONDALE, FLORIDA

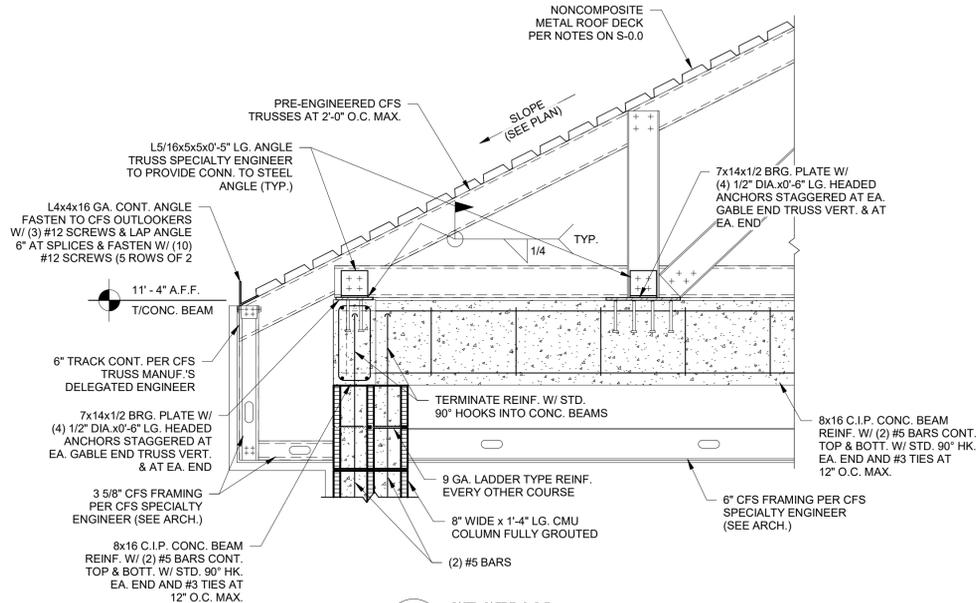
JOB NUMBER: M-2024-13  
DATE: OCT. 31, 2025  
DRAWN BY: AMM  
CHECKED BY: KMH

SHEET No. **S-6.0**  
100% COMPLETE  
CONSTRUCTION DOCUMENTS

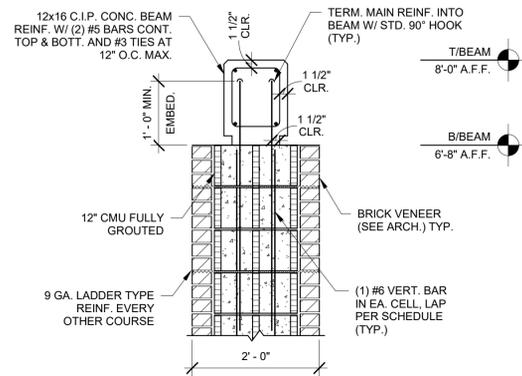
**DHM**  
MELVIN ENGINEERING  
TALLAHASSEE OFFICE  
2541-1 BARRINGTON CIRCLE  
TALLAHASSEE, FLORIDA 32308  
Phone: 850.671.7221



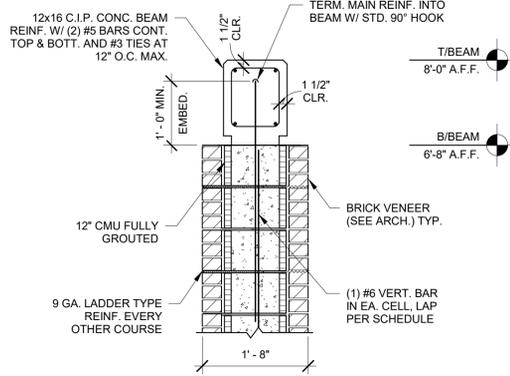
SECTION 1  
S-6.1 SCALE: 3/4" = 1'-0"



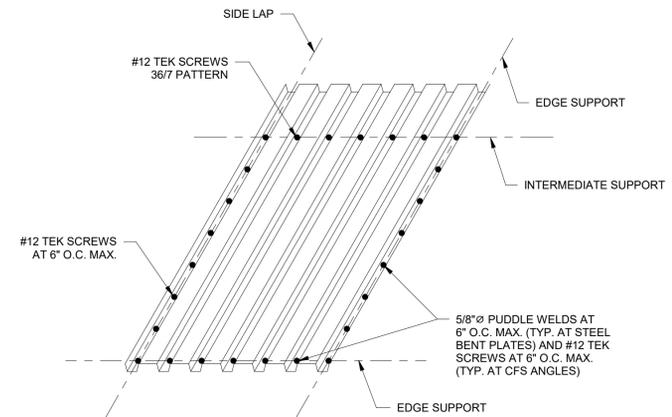
SECTION 2  
S-6.1 SCALE: 3/4" = 1'-0"



SECTION 3  
S-6.1 SCALE: 3/4" = 1'-0"



SECTION 4  
S-6.1 SCALE: 3/4" = 1'-0"



SECTION 5 METAL DECK ATTACHMENT  
S-6.1 SCALE: 3/4" = 1'-0"

KIMBERLY M. HOLLOWAY, P.E.  
FLORIDA REG. NO. 69166

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. NO PART OF THIS DRAWING IS TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF DONOFRO ARCHITECTS. SUBJECT TO U.S. PATENT AND TRADEMARK OFFICE ACTION.

**DONOFRO ARCHITECTS**  
2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261

P.O. BOX 861  
MARIANNA, FL 32447  
FAX: (850) 482-8609

SHEET FRAMING SECTIONS  
TITLE: NEW POLICE STATION  
FOR THE CITY OF COTTONDALE  
FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
DATE: OCT. 31, 2025  
DRAWN BY: AMM  
CHECKED BY: KMH

SHEET No.  
**S-6.1**  
100% COMPLETE  
CONSTRUCTION DOCUMENTS

**DHM**  
MELVIN ENGINEERING  
TALLAHASSEE OFFICE  
2541-1 BARRINGTON CIRCLE  
TALLAHASSEE, FLORIDA 32308  
Phone: 850.671.7221

**LEGEND**

	S OR W	SOIL OR WASTE PIPING
	V	VENT PIPING
	CW	COLD WATER SUPPLY PIPING
	HW	HOT WATER SUPPLY PIPING
	HWR	HOT WATER RETURN PIPING
	A	COMPRESSED AIR
	G	GAS
	CV	GATE VALVE
	CV	CHECK VALVE
	BV	BALL VALVE
	HB	HOSE BIBB
	WH	WALL HYDRANT
	CO	CLEANOUT TO FLOOR
	FD	FLOOR DRAIN
	COIG	CLEANOUT TO GRADE
	COAC	CLEANOUT ABOVE CEILING
	VTR	VENT THRU ROOF
	1	SHEET NOTE
		POINT OF CONNECTION TO EXISTING
	SH	SHOWER
	MR	MOP RECEPTOR
	UR	URINAL
	WC	WATER CLOSET
	UB	WALL MOUNTED UTILITY BOX
	IWH	INSTANTANEOUS ELECTRIC WATER HEATER
	EWC	ELECTRIC WATER COOLER
	L	LAVATORY
	WH	WALL HYDRANT
	HB	HOSE BIBB
	KW	KILOWATT
	AD	AIR DROP
	TP	AUTOMATIC TRAP PRIMER
	WHA	TYPE "A" WATER HAMMER ARRESTER
	WHB	TYPE "B" WATER HAMMER ARRESTER
	WHC	TYPE "C" WATER HAMMER ARRESTER
	HR	HOSE REEL
	A	AIR
	G	GAS
	AC	AIR COMPRESSOR
	TD	TRENCH DRAIN
	DT	TROUGH DRAIN
	COTS	CLEANOUT TO SIDEWALK
	OI	OIL INTERCEPTOR

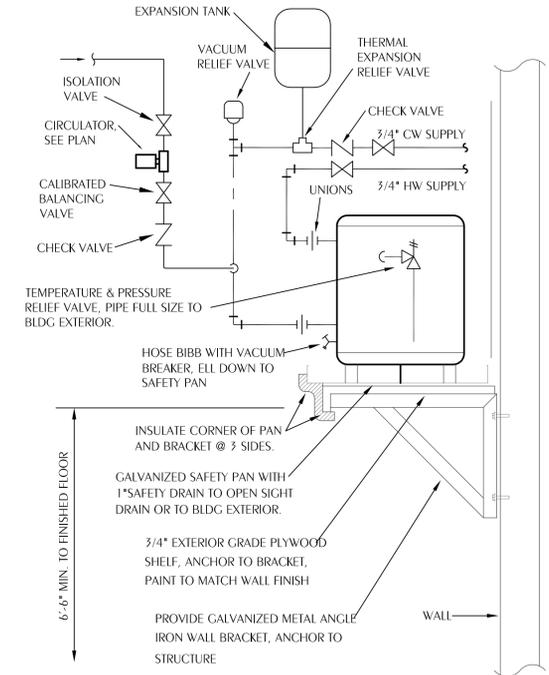
**PLUMBING FIXTURE SCHEDULE**

MARK	FIXTURE	PIPE SIZES-INCHES		
		CW	HW	W
WC-1	WATER CLOSET	1	-	4
L-1	LAVATORY	3/8	3/8	1-1/4
L-2	LAVATORY	3/8	3/8	1-1/4
SK-1	DUAL COMPARTMENT SINK	3/8	3/8	1-1/2
MV-1	WATER MIXING VALVE	1/2	1/2	-
SH-1	SHOWER	1/2	1/2	2
EWH-1	ELECTRIC WATER HEATER	1/2	1/2	-
CP-1	CIRCULATOR PUMP(INLINE)	-	3/4 FLANGE	-
TCV	TEMPERATURE CONTROL VALVE	-	1/2	-
UB-1	RECESSED UTILITY WALL BOX (ICE MAKER HOOK-UP)	3/8	-	-
UB-2	CONDENSATE DRAIN BOX	-	-	2
FD-1	FLOOR DRAIN	-	-	3
FD-2	FLOOR DRAIN	-	-	3
TP-1	TRAP PRIMER	-	-	-
HB	HOSE BIBB	3/4	-	-

1. WATER SUPPLY TAPPING TO EACH PLUMBING FIXTURE SHALL BE FULL SIZE (MINIMUM).
2. SEE ELECTRICAL DWGS FOR FINAL POWER REQUIREMENTS.
3. PROVIDE WATER HAMMER ARRESTERS ON HOT & COLD WATER SUPPLY BRANCHES SERVING SINGULAR, MULTIPLE OR GROUPS OF PLUMBING FIXTURES. ADHERENCE TO THE PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I.-WH201 (PER SPECIFICATIONS) SHALL BE EMPLOYED IN DETERMINING PROPER SIZE, SELECTION, PLACEMENT, LOCATION AND INSTALLATION OF ARRESTERS.

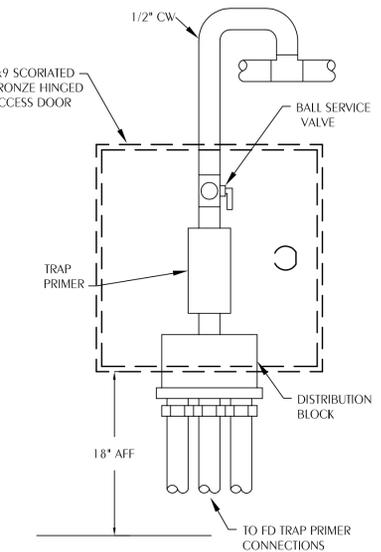
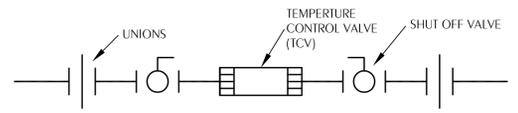
**PLUMBING GENERAL NOTES**

1. COORDINATE ALL PIPING WITH DUCTWORK SHOP DRAWINGS. ROUTE PIPING AS REQUIRED TO AVOID CONFLICTS.
2. PRIOR TO START OF ANY WORK, COORDINATE SANITARY SEWER AND POTABLE WATER PIPING WITH CIVIL DRAWINGS.
3. FIELD VERIFY PIPE INVERTS PRIOR TO LAYING OUT SANITARY SEWER PIPING.
4. ALL PIPING PASSING THROUGH WALLS SHALL HAVE A SLEEVE PER SPECIFICATIONS.
5. ALL PIPING PASSING THROUGH FIRE-RATED WALLS SHALL HAVE A FIRE-RATED SLEEVE PER SPECIFICATIONS.
6. ALL PIPING INDICATED IS ABOVE THE CEILING EXCEPT THE OBVIOUS SANITARY SOIL, WASTE, VENT AND POTABLE WATER PIPING BELOW FLOOR OR GRADE.
7. SEE TOILET ROOM ELEVATIONS ON ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE MOUNTING HEIGHT.
8. COORDINATE LOCATION OF ALL FLOOR DRAINS SERVING HVAC EQUIPMENT WITH HVAC EQUIPMENT SHOP DRAWINGS.
9. UNDER SLAB SOIL, WASTE AND VENT PIPING PASSING TO UNDERSIDE OR THROUGH FOUNDATION FOOTING, WALL OR GRADE BEAM SHALL BE PROVIDED WITH A RELIEVING ARCH OR PIPE SLEEVE 2 (TWO) PIPE SIZES GREATER THAN PIPE SIZE INDICATED ON PLANS. COORDINATE FINAL PIPE ROUTING AND LAYOUT WITH STRUCTURAL DRAWINGS.
10. PRIOR TO SUBSTANTIAL COMPLETION OF NEW WORK AREAS, CONTRACTOR SHALL HAVE SANITARY PLUMBING SYSTEM CLEARED OF DEBRIS OR ANY MATTER THAT WOULD INTERFERE OR PREVENT ADEQUATE CONVEYANCE OF MATERIALS FROM MOVING THROUGH AND TERMINATING INTO BUILDING OR PUBLIC DISPOSAL FACILITIES.
11. ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS.
12. ALL PIPING PENETRATIONS THROUGH WALLS OR FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE WALLS OR FLOORS.
13. ALL TRAP PRIMERS AND DOMESTIC WATER ISOLATION VALVES SHALL BE ACCESSIBLE. TRAP PRIMERS LOCATED IN THE VICINITY OF WATER CLOSETS SHALL BE ACTIVATED BY WATER CLOSET USAGE. ISOLATION VALVES SHALL BE OF THE QUARTER TURN BALL OR GATE TYPE.
14. ALL COMPONENTS OF PLUMBING SYSTEMS ARE TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS AND THE REQUIREMENTS OF THE 2023 FLORIDA BUILDING CODE (8TH EDITION).
15. CONTRACTOR SHALL DEVELOP COORDINATION SHOP DRAWINGS WHICH IDENTIFY ROUTING OF PLUMBING PIPE AND LOCATION OF EQUIPMENT. SHOP DRAWINGS SHALL INDICATE COORDINATION WITH THE WORK OF OTHER TRADES.



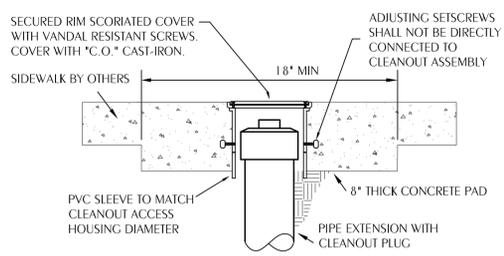
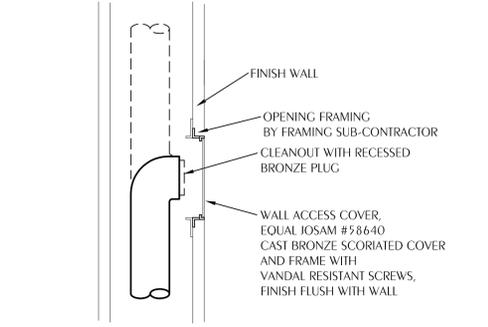
**1 WALL MOUNT EWH**  
P-0.1 SCALE: NONE

**2 THERMOSTATIC TEMPERATURE CONTROL VALVE DETAIL**  
P-0.1 SCALE: NONE



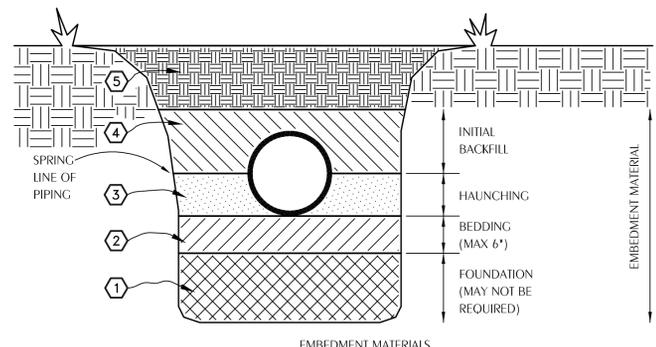
**4 TRAP PRIMER DETAIL**  
P-0.1 SCALE: NONE

**5 CLEANOUT TO WALL**  
P-0.1 SCALE: NONE



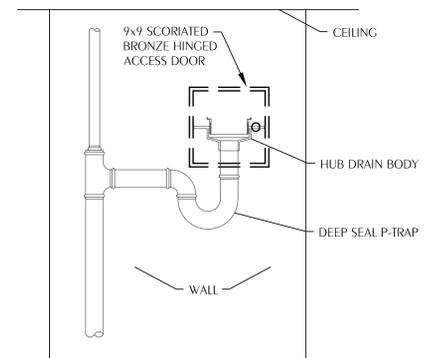
**6 CLEANOUT TO SIDEWALK**  
P-0.1 SCALE: NONE

- 1 A FOUNDATION MAY BE REQUIRED IN VERY POOR SOIL CONDITIONS.
  - 2 BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE. IN DRY SOIL CONDITIONS, CLASS II OR III MATERIAL SHALL BE HAND PLACED IN 4'-6", LIGHTLY COMPACTED UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. IN WET CONDITIONS, CLASS I, II OR III MATERIAL SHALL BE HAND PLACED IN 4'-6", UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. WHEN UTILIZING CLASS I MATERIAL, SUFFICIENT AMOUNTS OF CLASS II OR III MATERIAL SHALL BE ADDED TO FILL ALL VOIDS CREATED BY THE USE OF CLASS I MATERIAL.
  - 3 HAUNCHING MATERIAL SHALL BE HAND PLACED TO THE SPRINGLINE OF THE PIPE. CLASS II OR III MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND HAND TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT.
  - 4 INITIAL BACKFILL MATERIAL SHALL BE CLASS II OR III. IT SHALL BE PLACED WITHIN 24-30" ABOVE THE TOP OF THE PIPE AND TAMPED BY A PORTABLE VIBRATOR. FINAL BACKFILL MATERIAL MAY BE MACHINE PLACED. THE MATERIAL SHALL BE CLASS I, II OR III MATERIAL. CLASS IV MATERIAL MAY BE INSTALLED OUTSIDE OF ROADWAY.
  - 5 FINAL BACKFILL UNDER ROADWAYS MAY REQUIRE SPECIAL COMPACTION AND DENSITY TESTS. A MINIMUM OF 30" OF COVER OVER THE TOP OF THE PIPE SHALL BE PROVIDED BEFORE THE TRENCH IS WHEEL-LOADED.
- NOTE:** ALL EMBEDMENT MATERIALS SHALL BE NO LESS THAN 95% OF MAXIMUM DENSITY. LABORATORY TESTING OF THE SOIL WILL BE REQUIRED. THIS PROCEDURE SHALL BE REQUIRED ON ALL INSTALLATIONS. ALL TRENCHING, EXCAVATION, AND BACKFILLING SHALL BE IN ACCORDANCE WITH 2023 FLORIDA PLUMBING CODE.



- EMBEDMENT MATERIALS**
- CLASS I: ANGULAR, 1/4"-1-1/2", GRADED STONE, INCLUDING A NUMBER OF FILL MATERIALS THAT HAVE REGIONAL SIGNIFICANCE SUCH AS CORAL, SLAG, CINDERS, CRUSHED STONE AND CRUSHED SHELLS.
  - CLASS II: COARSE SANDS AND GRAVELS WITH MAXIMUM PARTICLE SIZE OF 1-1/2" INCLUDING VARIOUS GRADED SANDS AND GRAVELS CONTAINING SMALL PERCENTAGES OF FINES, GENERALLY GRANULAR AND NON-COHESIVE, EITHER WET OR DRY. SOIL TYPES GW, GP, SW, AND SP ARE INCLUDED IN THIS CLASS.
  - CLASS III: FINE SAND AND CLAY GRAVELS, INCLUDING FINE SANDS, SAND-CLAY MIXTURES AND GRAVEL-CLAY MIXTURES. SOIL TYPES GM, GC, SM, AND SC ARE INCLUDED IN THIS CLASS.
  - CLASS IV: SILT, SILTY CLAYS, AND CLAYS, INCLUDING INORGANIC CLAYS AND SILT OF MEDIUM TO HIGH PLASTICITY AND LIQUID LIMITS. SOIL TYPES MH, ML, CH, AND CL ARE INCLUDED IN THIS CLASS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.
  - CLASS V: THIS CLASS INCLUDES THE ORGANIC SOILS, AS WELL AS SOILS CONTAINING FROZEN EARTH, DEBRIS, ROCKS LARGER THAN 1-1/2" IN DIAMETER AND OTHER FOREIGN MATERIALS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.

**3 EXCAVATION AND BACKFILL DETAIL**  
P-0.1 SCALE: NONE



**7 HUB DRAIN DETAIL**  
P-0.1 SCALE: NONE

**WATFRO ENGINEERING**  
4452 Clinton Street Marianna, Florida 32446  
2449 Moores Mill Road Auburn, AL 36830

Florida CA Number: 27825  
Keith A. Johnson, PE  
Florida License Number: 88457  
850.530.1447  
Project Number: 2025-018

**100% COMPLETE**  
**REVIEW DOCUMENTS**  
DONOFRO ARCHITECTS  
**NOT FOR CONSTRUCTION**  
OCTOBER 31, 2025

**DONOFRO ARCHITECTS**  
2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261

P.O. BOX 861  
MARIANNA, FL 32447  
FAX: (850) 482-8609



SHEET PLUMBING LEGEND, SCHEDULE, NOTES, AND DETAILS  
NEW POLICE STATION  
**THE CITY OF COTTONDALE**  
FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
DATE: OCT. 31, 2025  
DRAWN BY: JDD  
CHECKED BY: KAJ

SHEET No.  
**P-0.1**

# PLUMBING SPECIFICATIONS

## WC-1 WATER CLOSET, FLOOR-MOUNT (ADULT HANDICAP, MANUAL VALVE):

VITREOUS CHINA, 1.28 GALLONS PER FLUSH, ELONGATED, HIGH EFFICIENCY SIPHON JET, WHITE, WATER SAVER BOWL WITH 1-1/2" TOP SPUD, 17" HIGH FOR HANDICAPPED. EXPOSED CHROME PLATE FLUSH VALVE, WITH SCREWDRIVER STOP, VACUUM BREAKER, QUIET FLUSH FEATURE, WITH SWEAT SOLDER KIT AND CAST WALL FLANGE. HEAVY MOLDED PLASTIC, WHITE, ELONGATED, OPEN FRONT SEAT LESS COVER, WITH STAINLESS STEEL, SELF-SUSTAINING CHECK HINGES. HOLD CENTERLINE FLUSH VALVE ASSEMBLY OFF FINISH WALL FOR GRAB BAR CLEARANCES, COORDINATE WITH ARCHITECTURAL DRAWINGS.

WATER CLOSET	ZURN Z5665BWL
VALVE	ZURN Z8600PP4-HET
SEAT	ZURN Z595555-EL-STS
CLOSET BOLT/WAX RING KIT	ZURN Z5972-COMB

## L-1 LAVATORY, WALL-MOUNT (HANDICAP):

VITREOUS CHINA 20" X 18", COLOR "WHITE", 8" ON CENTERS, FRONT OVERFLOW, FOR CONCEALED ARM SUPPORT. FURNISH FLOOR-MOUNTED SINGLE CARRIER WITH CONCEALED ARMS, LEVELING AND SECURING SCREWS, STRUCTURAL UPRIGHTS AND BLOCK BASES, SECURE BASE TO FLOOR FOR RIGID CONNECTION WITH 1/2" X 3-3/4" THREADED ZINC PLATED STEEL HEAVY DUTY WEDGE ANCHORS, COMPLETE WITH STAINLESS STEEL CLIP, WASHER AND THREADED NUT, CONFORMING TO FEDERAL SPEC. FF-S-325. PROVIDE CHROME PLATED ANGLE STOP TO WALL WITH CHROME PLATED 3/8" FLEXIBLE SUPPLY AND LOOSE KEY OPERATOR, INTEGRAL PERFORATED CAST BRASS STRAINER WITH ELBOW AND 1-1/4" OFFSET TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. POLISHED CHROME PLATED CAST BRASS WATER FAUCET WITH WRIST BLADE HANDLES, WITH 0.5 GPM AERATOR. LAVATORY P-TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE INSULATED WITH FULLY MOLDED INSULATION KIT, AND LIGHT GRAY COLOR WITH 3-PIECE INTERLOCKING TRAP ASSEMBLY AND 2-PIECE INTERLOCKING ANGLE VALVE ASSEMBLY. FASTENERS SHALL BE NYLON-TYPE SUPPLIED WITH KIT. LAVATORY SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 28" FROM FLOOR TO BOTTOM OF THE APRON. KNEE AND TOE CLEARANCES SHALL BE AS FOLLOWS: 27" CLEAR HEIGHT SHALL BE PROVIDED FROM FINISHED FLOOR TO A POINT ON UNDERSIDE OF BOWL 8" IN FROM FRONT APRON. TOE CLEARANCE SHALL BE A MINIMUM HEIGHT OF 9" UNDER P-TRAP AND SUPPLIES OR STOPS. SEE ARCHITECTURAL DRAWINGS FOR FINAL MOUNTING HEIGHT. UNDER SINK MIXING VALVE WITH THREADED CONNECTION, BRONZE BODY, LIMITS HOT WATER BETWEEN 80°F & 120°F AND SET AT 95 DEGREE F, DOUBLE THROTTLING, INTEGRAL INLET FILTER WASHERS & CHECK VALVES, TAMPER RESISTANT LOCKING CAP. MEETS ASSE 1070 STANDARDS.

LAVATORY	ZURN Z5348
FAUCET	ZURN Z-81104-XL-3M
SUPPLY W/STOP	ZURN Z8800RLK-PC
P-TRAP	ZURN Z8700-PC
STRAINER/TAILPIECE	ZURN Z8746
INSULATION KIT	ZURN Z8946-3-NT
CARRIER	ZURN Z-1231
BASE ANCHORAGE	B-LINE ANCHORS AWA-50-375
MIXING VALVE	MV-1

## L-2 LAVATORY, COUNTERTOP (HANDICAP):

VITREOUS CHINA 20" X 17", OVAL, COLOR "WHITE", CENTER HOLE SETTING, FRONT OVERFLOW. PROVIDE CHROME PLATED 1/2" IPS X 3/8" O.D. LOOSE KEY OPERATED, ANGLE STOP TO WALL WITH CHROME PLATED 3/8" FLEXIBLE COPPER RISERS, INTEGRAL PERFORATED CAST BRASS STRAINER WITH ELBOW AND 1-1/4" OFFSET TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. POLISHED CHROME PLATED CAST BRASS SINGLE LEVER FAUCET WITH COVER PLATE, NON-AERATED LAMINAR SPRAY, 0.5 GPM. LAVATORY P-TRAP AND ANGLE STOP VALVE ASSEMBLY AND RISERS SHALL BE INSULATED WITH A WHITE FULLY MOLDED EVA FOAM TUBULAR COVER. COVERS SHALL JOIN USING SECURE FIT HOOK AND LOOP CONNECTION. PROVIDE MIXING VALVE.

LAVATORY	ZURN Z5111
FAUCET	ZURN Z-81000-XL-3M
SUPPLY W/STOP	ZURN Z8802CRK-PC
P-TRAP	ZURN Z8700-PC
STRAINER/TAILPIECE	ZURN Z8746-PC
INSULATION KIT	DEARBORN ADA100
MIXING VALVE	MV-1

## SK-1 DOUBLE COMPARTMENT STAINLESS STEEL SINK:

33" X 22" X 8-1/8" DEEP (BOWL IS 13-1/2" X 16 7/8" X 3/4"), TYPE 304, 18 GAUGE, 8" CENTERS, SELF RIMMING SINGLE COMPARTMENT, (18-8) NICKEL BEARING STAINLESS STEEL, BACK LEDGE SINK WITH SATIN FINISH AND SOUND DEADENING MATERIALS ON SIDE AND BOTTOM OF SINK. PROVIDE POLISHED CHROME PLATED TOP MOUNT SWING COOSENECK SPOUT WITH STRAIGHT LEVER HANDLES, WATER SAVING AERATOR, HOSE AND SPRAY. STRAINER WITH REMOVABLE CRUMB CLIP AND STOPPER, 1-1/2 TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. CHROME PLATED LOOSE KEY ANGLE STOP TO WALL WITH 3/8" CHROME PLATED FLEXIBLE HOT AND COLD WATER SUPPLIES. COORDINATE WITH CABINET SHOP DRAWINGS, BASE CABINET MUST BE A TRUE MINIMUM 24" DEEP BACK TO FRONT IN ORDER FOR SINK TO DROP INTO COUNTERTOP OPENING. SINK DRILLINGS SHALL ACCOMMODATE FITTING INSTALLATION ONLY, NO OTHER CAPPED OPENINGS WILL BE ALLOWED. UNDER SINK MIXING VALVE WITH THREADED CONNECTION, BRONZE BODY, LIMITS HOT WATER BETWEEN 80°F & 120°F AND SET AT 95 DEGREE F, DOUBLE THROTTLING, INTEGRAL INLET FILTER WASHERS & CHECK VALVES, TAMPER RESISTANT LOCKING CAP. MEETS ASSE 1070 STANDARDS. PROVIDE UNDER SINK DISPOSAL WITH 1/3 HP MOTOR.

SINK	ELKAY L2-3222
FAUCET	ZURN Z-871 C1-HS
STRAINER	ELKAY LK-355
WASTE	ELKAY LK-355
SUPPLIES	ZURN Z-8802-LK
P-TRAP	ZURN Z-8702-PC
MIXING VALVE	MV-1
DISPOSAL	GE GFC320V

## SH-1 SHOWER (HANDICAP):

SINGLE HANDLE PRESSURE-BALANCING MIXING VALVE. CERAMIC CONTROL CARTRIDGE WITH STAINLESS STEEL BALANCING PISTON. MUST HOLD SHOWER TEMPERATURE STEADY WITH PRESSURE FLUCTUATIONS UP TO 85%. PACKING WITH BRASS. ADJUSTABLE LIMIT STOP SCREW TO PROHIBIT VALVE HANDLE FROM BEING TURNED TO EXCESSIVE HOT DISCHARGE TEMPERATURES. ALL TRIM TO BE COPPER NICKEL CHROME PLATED. SERVICE STOPS TO BE BRASS AND CAST INTEGRAL WITH VALVE BODY. TWO WAY CHROME DIVERTER VALVE. BRASS SHOWER HEAD WITH ARM AND FLANGE. WALL/HAND SHOWER WITH 60" FLEXIBLE METAL HOSE, IN-LINE VACUUM BREAKER, WALL CONNECTION AND FLANGE, 30" SLIDE BAR FOR HAND SHOWER MOUNTING, WITH LEVER ADJUSTMENT. 1.6 GPM SHOWER HEAD.

SHOWER	ZURN Z-7301-SS-MT-DV-2P-FW16
DRAIN	ZURN ZN-415 2" WITH 5" B

## MV-1 WATER MIXING VALVE (THERMOSTATIC MIXING):

UNDER SINK 3/8" COMPRESSION FITTING MIXING VALVE, BRASS BODY, LEAD FREE, LIMITS HOT WATER BETWEEN 80°F & 120°F, DUAL CHECK VALVES, 0.25GPM MIN. FLOW, 40 MESH STAINLESS STEEL STRAINER, TAMPER RESISTANT LOCKING CAP. MEETS ASSE 1070 STANDARDS.

EXPOSED MIXING VALVE	WATTS LFUSG-B
----------------------	---------------

## UB-1 RECESSED UTILITY BOX (REFR. SPACE):

RECESSED METAL WALL BOX CONSTRUCTED AND SUITABLE FOR FIRE RATED PARTITIONS COMPLETE WITH FACTORY INSTALLED SHANK VALVE WITH 1/4" O.D. COPPER OUTLET TESTED AT 100 PSI. PROVIDE APPROXIMATELY 5' OF 1/4" O.D. SOFT COPPER TUBING WITH COMPRESSION FITTING IN TIGHT COIL. ANCHOR BOX TO WALL STRUCTURE. VERIFY LOCATION AND MOUNTING HEIGHT WITH DRAWINGS OR MOUNT TO MANUFACTURERS RECOMMENDATIONS.

WALL BOX	CLY GRAY BIM 875
----------	------------------

## UB-2 RECESSED UTILITY WALL BOX:

RECESSED PVC WALL BOX CONSTRUCTED AND SUITABLE FOR FIRE RATED PARTITIONS WITH AN OPEN FACE PLATE. PROVIDE CONDENSATE DRAIN ADAPTER THAT PROVIDES A 1" AIR GAP. ANCHOR BOX TO WALL STRUCTURE. VERIFY LOCATION AND MOUNTING HEIGHT WITH DRAWINGS OR MOUNT TO MANUFACTURERS RECOMMENDATIONS.

WALL BOX	IPS MBFRS1200DB1
DRAIN ADAPTER	IPS MB1250AD

## CP-1 CIRCULATOR PUMP (INLINE TYPE):

INFINITELY VARIABLE CIRCULATOR MADE OF COMPOSITE CASING, HOUSING, IMPELLER, CERAMIC SHAFT, AND CARBON BEARINGS. A 44 WATT ECM PERMANENT MAGNET MOTOR AND ELECTRICAL CHARACTERISTICS ARE 120V/1 PHASE, 60 HZ., WITH 1" CONNECTIONS, MAXIMUM OPERATING PRESSURE OF 150 PSI, UL STANDARD 778 AND NSF CERTIFIED. DIGITAL TIMER WITH CIRCULATOR PROGRAMMING, TEMPERATURE AQUASTAT, MAINTAINS WATER TEMPERATURE BETWEEN 95°F AND 115°F. CIRCUIT SETTER CALIBRATED BALANCE VALVE, LEAD-FREE BRASS, WITH 1/4" NPT TAPPED DRAIN PORT, MEMORY STOP FEATURE, SET AT 1 GPM. PROVIDE CIRCUIT SOLVER A SELF-ACTING THERMOSTATIC RECIRCULATION VALVE SET AT 110°F.

CIRCULATOR	TACO 006E3
TIMER	TACO 265-3
AQUASTAT	TACO 363-2
CIRCUIT SETTER	XYLEM CB-1/25 LF

## EWH-1 ELECTRIC WATER HEATER:

ASHRAE STANDARD 90, GLASS LINED TANK SUITABLE FOR 150 PSI WORKING PRESSURE, 300-PSI TEST. FINISH OF DURABLE HIGH GLOSS BAKED ENAMEL. BLANKET GLASS FIBER INSULATION OVER ENTIRE TANK. CONTROL CIRCUIT TRANSFORMER AND MANUAL RESET HIGH TEMPERATURE LIMIT CONTROL. ASME PRESSURE AND TEMPERATURE RELIEF VALVE. WATER HEATER SHALL BE ACCEPTABLE FOR COMMERCIAL APPLICATION BY MANUFACTURER. PROVIDE 3 FULL YEAR WARRANTY, SNAP ACTION AUTOMATIC IMMERSION MOUNTED THERMOSTATS, IMMERSION TYPE HEATING ELEMENTS AND MAGNESIUM ANODE ROD. PROVIDE UNIT MOUNTED DISCONNECT SWITCH. PROVIDE INLET AND OUTLET SHUT-OFF VALVES, VACUUM RELIEF VALVE ON INLET WATER SUPPLY. PROVIDE GALVANIZED STEEL DRIP PAN. PROVIDE PRE-CHARGED EXPANSION TANK, OUTER STEEL SHELL (FLEXIBLE DIAPHRAGM TYPE), ON COLD WATER INLET SIDE OF WATER HEATER FOR THERMAL EXPANSION CONTROL. TANK VOLUME IN GALLONS SHALL BE OF SUFFICIENT SIZE TO ACCOMMODATE WATER HEATER SIZE IN GALLONS. 10 GAL, 3 KW, 240V/1 PHASE.

WATER HEATER	A. O. SMITH DEL-10
VACUUM RELIEF	WATTS 36A
EXPANSION TANK	AMTROL "THERM-X-TROL"

## TCV TEMPERATURE CONTROL VALVE:

CIRCUIT SOLVER A SELF-ACTING THERMOSTATIC RECIRCULATION VALVE SET AT 110°F.

RECIRCULATION VALVE (TVC)	CIRCUIT SOLVER CS-1/2-110
---------------------------	---------------------------

## FD-1 FLOOR DRAIN:

DURA-COATED CAST IRON BODY, BOTTOM OUTLET AND TRAP PRIMER CONNECTION. TYPE B POLISHED NICKEL BRONZE STRAINER, MEMBRANE CLAMP & ADJUSTABLE COLLAR WITH SLOTS.

FLOOR DRAIN	ZURN Z-415B-P
-------------	---------------

## FD-2 FLOOR DRAIN (CONDENSATE):

DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND \*TYPE 1" POLISHED NICKEL BRONZE STRAINER WITH RANGED FLANGE.

FLOOR DRAIN	ZURN Z-415I
-------------	-------------

## TP-1 TRAP PRIMER:

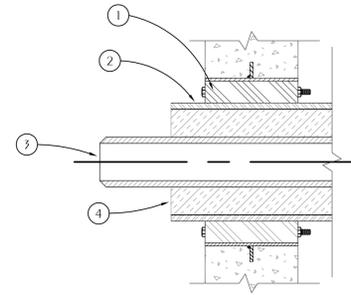
PROVIDE BRASS TRAP PRIMERS AND DISTRIBUTION UNITS TO SEAL FLOOR DRAINS INDICATED ON DRAWINGS. TRAP PRIMER VALVES SHALL BE AUTOMATIC, SELF CONTAINED TYPE WITH NO SPRINGS OR DIAPHRAGMS AND SHALL NOT REQUIRE ADJUSTMENT. INLET AND OUTLET SIZE IS 1/2". TRAP PRIMER VALVES SHALL BE THE TYPE THAT CAN BE INSTALLED ANYWHERE ON COLD WATER PIPING SIZE 1-1/2" OR LESS. DISTRIBUTION UNITS SHALL SUPPLY 1-4 FLOOR DRAINS. TRAP PRIMER VALVES SHALL COMPLY WITH ASSE 1018. PRECISION PLUMBING PRODUCTS (PPP).

TRAP PRIMER	PPP PR-500
DISTRIBUTION UNIT	PPP DU-U

## HB RECESSED HOSE BIB:

ANTI-SIPHON VACUUM BREAKER, FLUSH MOUNTING STAINLESS STEEL WALL BOX WITH HINGED COVER, 3/4 INCH HOSE THREAD, BRONZE BODY AND INTER PARTS, WHEEL HANDLE, LOOSE KEY FAUCET OPERATED CONTROL VALVE, DUAL CHECK VALVE, SCREWDRIVER OPERATED STOP VALVE IN SUPPLY, NARROW INSTALLATION.

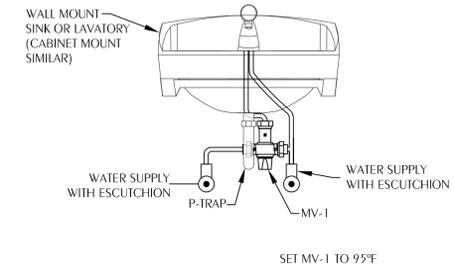
WALL FAUCET	ZURN Z1335
-------------	------------



- 1 WALL SEAL APPURTENANCES PER SPECIFICATIONS
- 2 PIPE SLEEVE PER SPECIFICATIONS
- 3 PIPING
- 4 INSULATION

## TYPICAL PIPE PENETRATION OF WALL

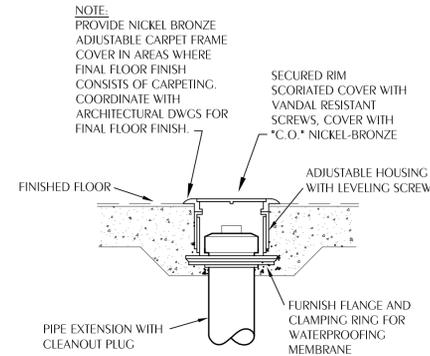
1 P-0.2 SCALE: NONE



## LAV/SINK MIXING VALVE DETAIL

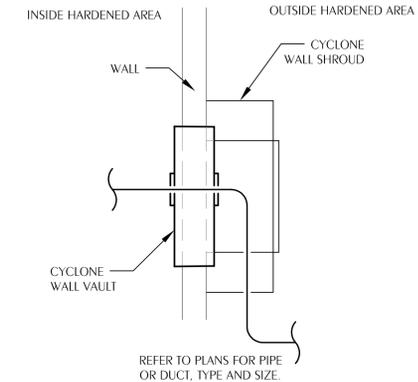
SCALE: NONE  
NOTE: MIXING VALVE WILL BE TYPICAL FOR SK-1, L-1, L-2

2 P-0.2



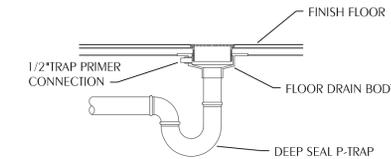
## CLEANOUT TO FLOOR

3 P-0.2 SCALE: NONE



## HARDENED WALL PENETRATION DETAIL

4 P-0.2 SCALE: NONE



## FLOOR DRAIN WITH TRAP PRIMER (FD-1) DETAIL

5 P-0.2 SCALE: NONE

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE OR REPRODUCTION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF DONOFRO ARCHITECTS IS PROHIBITED. © 2025 DONOFRO ARCHITECTS

**DONOFRO ARCHITECTS**

2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261

P.O. BOX 861  
MARIANNA, FL 32447  
FAX: (850) 482-8609

SHEET PLUMBING SPECIFICATIONS AND DETAILS

NEW POLICE STATION  
FOR THE  
**THE CITY OF COTTONDALE**  
FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
DATE: OCT. 31, 2025  
DRAWN BY: JDD  
CHECKED BY: KAJ

SHEET No.

**P-0.2**



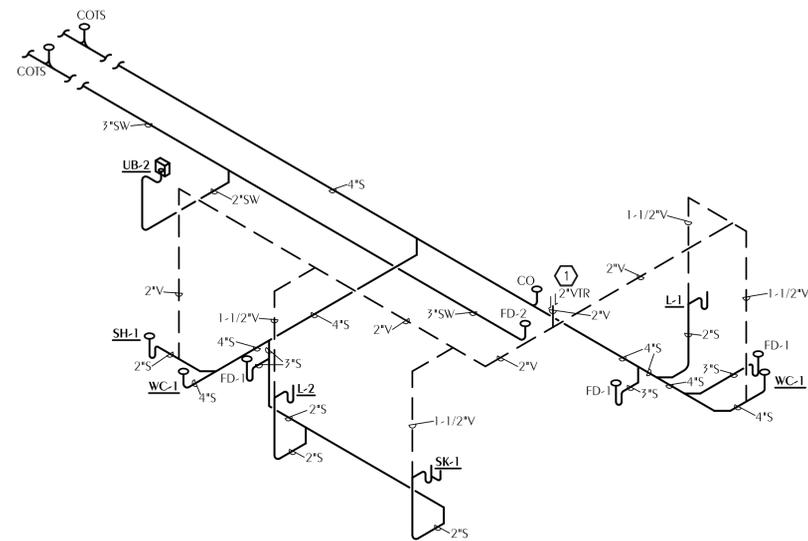


**SHEET NOTES**

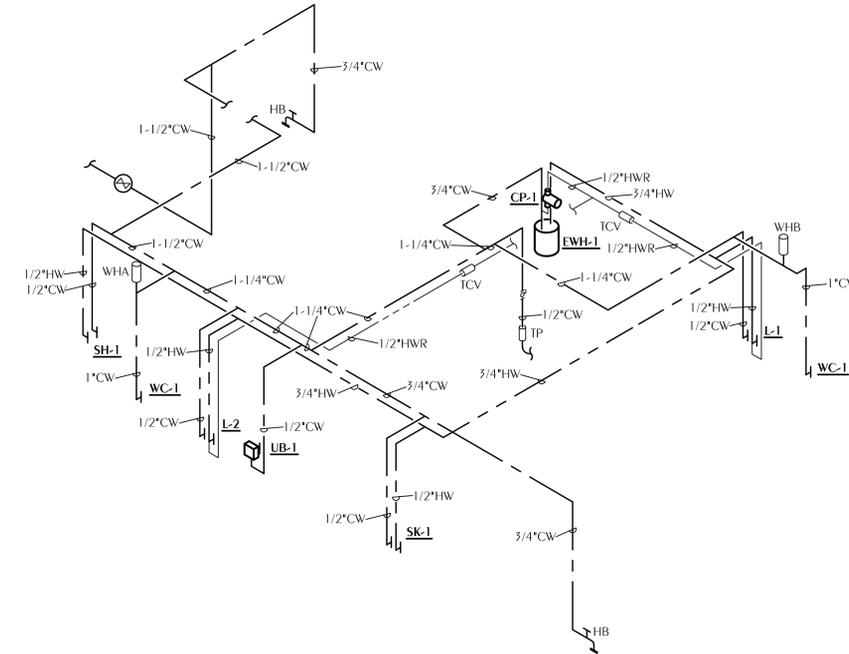
① VENTS THRU ROOF (VTR'S) SHALL BE PROTECTED AT ROOF PENETRATION. PROVIDE PRODUCTS BY ROOF PENETRATION HOUSING, LLC OR APPROVED EQUAL MEETING ICC-500 STANDARDS. PROVIDE CYCLONE CVTR. INSTALL PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

THIS DRAWING & SECTION SHOWN IS THE PROPERTY OF DONOFRO ARCHITECTS. NO PART OF THIS DRAWING OR SECTION MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM DONOFRO ARCHITECTS. © 2025 DONOFRO ARCHITECTS

**DONOFRO ARCHITECTS**  
 2910 CALEDONIA ST.  
 MARIANNA, FL 32447  
 OFFICE: (850) 482-5261  
 P.O. BOX 861  
 MARIANNA, FL 32447  
 FAX: (850) 482-8609



**1 PLUMBING SANITARY RISER DIAGRAM**  
 P-2.0 SCALE: NONE



**2 PLUMBING DOMESTIC WATER RISER DIAGRAM**  
 P-2.0 SCALE: NONE

SHEET PLUMBING RISER DIAGRAMS

FOR THE  
**THE CITY OF COTTONDALE**  
 FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER:  
 M-2024-13  
 DATE:  
 OCT. 31, 2025  
 DRAWN BY:  
 JDD  
 CHECKED BY:  
 KAJ

SHEET No.

**P-2.0**

**WATFORD ENGINEERING**  
 Florida CA Number: 27825  
 Keith A. Johnson, PE  
 Florida License Number: 86457  
 850.535.3447  
 Project Number: 2025-018  
 4452 Clinton Street Marianna, Florida 32446  
 2449 Moores Mill Road Auburn, AL 36830

**100% COMPLETE**  
**REVIEW DOCUMENTS**  
 DONOFRO ARCHITECTS  
**NOT FOR CONSTRUCTION**  
 OCTOBER 31, 2025

## LEGEND

	EQUIPMENT TAG		AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM
	DETAIL TAG ("1" INDICATES IDENTIFICATION NUMBER; "M3" INDICATES THE SHEET NUMBER DRAWN ON)		AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM (2) INDICATES TYPICAL OF TWO DEVICES
	SHEET NOTE	TYP	TYPICAL
	SUPPLY DUCT SECTION POSITIVE PRESSURE	TEMP	TEMPERATURE
	RETURN OR EXHAUST DUCT NEGATIVE PRESSURE	SA	SUPPLY AIR
	RECTANGULAR DUCT SIZE ("A" INDICATES SIDE SHOWN; "B" INDICATES SIDE NOT SHOWN)	RA	RETURN AIR
	INDICATES RISE IN ELEVATION OF DUCT.	EA	EXHAUST AIR
	ROUND DUCT SIZE	MA	MIXED AIR
	EXTERNALLY INSULATED DUCTWORK OR DUCT BOARD	OA	OUTDOOR AIR
	EXTERNALLY INSULATED ROUND FLEXIBLE DUCTWORK	TA	TRANSFER AIR
	DUCT ELBOW WITH TURNING VANES	EF	EXHAUST FAN
	RADIUSED DUCT ELBOW	CD	CEILING DIFFUSER
	FLEXIBLE DUCT CONNECTION	RC	RETURN GRILLE
	MANUAL VOLUME BALANCING DAMPER	EG	EXHAUST GRILLE
	MOTORIZED DAMPER	ER	EXHAUST REGISTER
	FIRE DAMPER WITH ACCESS DOORS	CREF	CEILING ROOF EXHAUST FAN
	SMOKE DAMPER WITH ACCESS DOORS	AHU	INDOOR AIR HANDLING UNIT
	BACKDRAFT DAMPER	BF	INLINE BOOSTER FAN
	TEE WITH TURNING VANES		THERMOSTAT, "1" INDICATES UNIT CONTROLLED
	TRANSITION		DUCT MOUNTED SMOKE DETECTOR
	FLEX DUCT TAKE OFF WITH MVD SIZE EQUALS DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE		FLOOR DRAIN
	BRANCH DUCT TAKEOFF WITH MVD		UNDERCUT DOOR 1/2"
			DOOR GRILLE. REFER TO DOOR SCHEDULE
			ABOVE FINISHED FLOOR
			HORIZONTAL FIRE DAMPER
			TRANSFER AIR
			EXTERNAL STATIC PRESSURE
			TESTING, ADJUSTING AND BALANCING
			NOMINAL
			VARIABLE FREQUENCY DRIVE
			FUTURE
			ELECTRIC UNIT HEATER
			HEAT PUMP
			MINI- HEAT PUMP
			WALL MOUNT MINI AIR HANDLER
			WALL SWITCH

## GENERAL NOTES

- ALL DUCT DIMENSIONS ARE NET INSIDE.
- VERIFY COLLAR SIZES ON ALL AIR TERMINALS, EQUIPMENT OUTLETS AND INLETS, TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE TRANSITIONS AT EQUIPMENT CONNECTIONS.
- FIELD VERIFY CLEAR SPACE AVAILABLE, ROUTING PATH, AND CONFLICTS WITH STRUCTURE AND THE WORK OF OTHER TRADES PRIOR TO FABRICATING DUCTWORK. PROVIDE OFFSETS IN DUCTWORK AS REQUIRED, WHETHER SPECIFICALLY INDICATED ON DRAWINGS OR NOT. SUBMIT SHOP DRAWINGS ON DUCTWORK LAYOUT PRIOR TO COMMENCING WORK. MAINTAIN CLEARANCE AROUND ALL LIGHT FIXTURES AS REQUIRED TO REMOVE AND SERVICE FIXTURES. COORDINATE WITH ROOF TRUSSES/STRUCTURE. PRESSURE TEST ALL NEW DUCTWORK FOR LEAKS. SEE SPECIFICATIONS.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PIPING, AND DUCTWORK SUCH THAT MANUFACTURERS' RECOMMENDED CLEARANCES ARE MET FOR ALL ACCESS PANELS, MOTORS, FANS, BELTS, FILTERS AND AIR INTAKES. CONDENSATE LINES SHALL BE CLEAR OF FILTER RACK ACCESS.
- PROVIDE DUCT FLEX CONNECTIONS & VIBRATION ISOLATION FOR ALL UNITS NOT INTERNALLY ISOLATED.
- ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR INTAKE DUCTWORK SHALL BE GALVANIZED SHEET METAL.
- ALL AHU AND OAU FILTERS SHALL BE OF A READILY AVAILABLE SIZE, OF DISPOSABLE TYPE, AND BE ACCESSIBLE WITHOUT THE USE OF SCREWS OR OTHER MECHANICAL DEVICES REQUIRING TOOLS.
- PROVIDE ACCESS PANELS IN CEILINGS AS REQUIRED FOR MAINTENANCE AND ADJUSTMENT OF EQUIPMENT LOCATED ABOVE CEILING. COORDINATE ALL SIZES AND LOCATIONS WITH ARCHITECT DURING SUBMITTALS. PROVIDE PLANS IF REQUIRED BY ARCHITECT.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATION OF ALL EQUIPMENT AND UTILITIES.
- CONTRACTOR SHALL SUBMIT COORDINATED DUCTWORK SHOP DRAWINGS INDICATING COORDINATION WITH ELECTRICAL, PLUMBING, AND FIRE PROTECTION, PRIOR TO BEGINNING WORK. SHOP DRAWINGS SHALL INCLUDE LOCATIONS OF THERMOSTATS, ACCESS PANELS, AIR DEVICES, DUCTWORK, ETC.
- ALL WORK SHALL COMPLY WITH EIGHTH EDITION OF FLORIDA BUILDING CODE (2023).

## DUCTWORK NOTES

- ALL ROUND FLEXIBLE DUCT SHALL BE FLEXMASTER TYPE 8M ACOUSTICAL FLEX OR ENGINEER APPROVED EQUAL MAXIMUM LENGTH OF ANY FLEXIBLE DUCT RUNOUT SHALL BE 5'-0". WHERE LENGTH REQUIRED EXCEEDS 5'-0", INSTALL EXTERNALLY INSULATED ROUND SNAPLOCK DUCT FOR BALANCE OF DISTANCE TO SPIN-IN TAP AT MAIN DUCT TRUNK.
- SEAL ALL DUCT PENETRATIONS OF WALLS AND FLOORS AIRTIGHT, REGARDLESS OF WHETHER WALLS OR FLOORS ARE FIRE RATED OR NOT.
- ALL SUPPLY AIR DUCTWORK FROM AHU'S (EXCEPT TAKEOFFS TO SUPPLY AIR DIFFUSERS) SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED UNLESS OTHERWISE INDICATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- ALL RETURN AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED UNLESS OTHERWISE INDICATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- ALL OUTSIDE AIR INTAKE DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED SHEET METAL. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- STANDARD EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1/2" W.G., SEAL CLASS A, SHEET METAL.
- WHEN ROUTING DUCTWORK OVER LIGHTS, PROVIDE A MINIMUM 6" CLEARANCE BETWEEN DUCT AND LIGHTS.
- PROVIDE DUCT ACCESS DOORS AT ALL CONTROL DAMPERS, SMOKE DETECTORS, FIRE DAMPERS, AND SMOKE DAMPERS.
- PROVIDE REMOVABLE DUCT SECTIONS IN DUCTWORK CONTAINING FIRE DAMPERS IF FULL 12X12 ACCESS DOOR CAN NOT BE PROVIDED.

## SEQUENCE OF OPERATION

### AHU/HP

**GENERAL:** PROVIDE PROGRAMMABLE THERMOSTAT FOR EACH UNIT. THERMOSTAT SHALL BE CAPABLE OF PERFORMING THE SEQUENCE OUTLINED BELOW. THERMOSTAT SHALL ACCEPT AN EXTERNAL OCCUPIED SCHEDULE FROM THE ELECTRONIC MECHANICAL EQUIPMENT TIME CLOCK.

**OCCUPIED MODE:** THE INDOOR FAN SHALL RUN CONTINUOUSLY. THE HP SHALL CYCLE TO MAINTAIN SPACE TEMPERATURE. THE ELECTRIC HEAT SHALL OPERATE A 2ND STAGE OF HEAT ONLY WHEN OUTDOOR TEMPERATURE IS BELOW 40°F. THE SETPOINT FOR COOLING SHALL BE 75°F ADJUSTABLE. THE SETPOINT FOR HEATING SHALL BE 70°F ADJUSTABLE.

**UNOCCUPIED MODE:** THE INDOOR FAN AND HP SHALL CYCLE TO MAINTAIN SETPOINT TEMPERATURE. THE SETPOINT FOR COOLING SHALL BE 85°F ADJUSTABLE. THE SETPOINT FOR HEATING SHALL BE 60°F ADJUSTABLE.

**OVERRIDE MODE:** THE OVERRIDE MODE SHALL PLACE THE SYSTEM IN OCCUPIED MODE FOR 1 HOUR.

### EVIDENCE ROOM

LOW LEAKAGE MOTORIZED DAMPERS SHALL BE INSTALLED IN SUPPLY AND RETURN DUCT SERVING EVIDENCE ROOM. THESE SHALL BE OPEN DURING NORMAL OPERATION AND SHALL BE INTERLOCKED WITH FIRE SUPPRESSION CONTROL PANEL TO CLOSE DURING CLEAN AGENT DISCHARGE.

LOW LEAKAGE MOTORIZED DAMPER SHALL BE INSTALLED IN EXHAUST DUCT OF EF-3 AND SHALL REMAIN CLOSED DURING NORMAL OPERATION. SWITCH OUTSIDE EVIDENCE ROOM SHALL OPEN THE DAMPER AND TURN ON EF-3.

## AIR DEVICE SCHEDULE

MARK	MAX AIRFLOW CFM	AIR DEVICE SIZE	DUCT CONNECTION SIZE	TITUS MODEL
CD-1 CFM	90	9X9	6Ø	TDC
CD-2 CFM	245	12X12	8Ø	TDC
CD-3 CFM	350	12X12	10Ø	TDC
RC, EG, SG, TC, RR, ER				
XX-1 CFM	450	12X12	12X12	350FL
XX-2 CFM	1705	22X22	22X22	350FL
XX-3 CFM	220	8X8	8X8	350FL
XX-4 CFM	500	12X8	12X8	350FL

- MAX NC=20
- PROVIDE 2X2 LAY-IN PANEL FOR AIR DEVICES IN LAY-IN CEILINGS
- PROVIDE BEVELED MOUNTING FRAME FOR CEILING DIFFUSERS IN HARD CEILINGS.
- PROVIDE FLAT MOUNTING FRAME FOR GRILLES LOCATED IN HARD CEILINGS.

## VENTILATION SCHEDULE

SPACE TYPE	VENTILATION CFM/S.F.	VENTILATION CFM/PERSON	EXHAUST CFM
LOBBY	0.06	5.0	-
CORRIDOR/VESTIBULE	0.06	0	-
OFFICE	0.06	5.0	-
STORAGE	0.06	5.0	-
RESTROOM - INTERMITTENT	0	0	70/FIXTURE

### NOTES:

VENTILATION AIR HAS BEEN CALCULATED IN COMPLIANCE WITH ASHRAE STANDARD 62.1-2019 INDOOR AIR QUALITY METHOD. THE INDOOR AIR QUALITY METHOD IS UTILIZED AS A MEANS OF REDUCTION IN OUTDOOR AIR AND IS SUBMITTED FOR APPROVAL AS AN ALTERNATE DESIGN IN ACCORDANCE WITH FBC 104.11. BIPOLAR IONIZATION IS UTILIZED TO CLEAN INDOOR AIR AND MAINTAIN ACCEPTABLE INDOOR AIR QUALITY WITH A REDUCTION IN OUTDOOR AIRFLOW.

## LOUVER SCHEDULE

MARK	AIRFLOW CFM (MAX)	LOUVER SIZE (WxH) INCHES	FREE AREA FT <sup>2</sup> (MIN)	RUSKIN MODEL	NOTES
LVR-1 CFM	215	18x12	0.46	EME3625MD + XP500	1,2,3,4,5

### NOTES:

- FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.
- PROVIDE LOUVER WITH FLORIDA PRODUCT APPROVAL, LISTED FOR COMPLIANCE WITH AMCA 540 AND AMCA 550.
- PROVIDE LOUVER IN ACCORDANCE WITH ICC 500.
- PROVIDE EME3625MD LOUVER IN FRONT OF XP500 LOUVER IN COMMON 10 GAUGE SLEEVE.
- REFER TO STRUCTURAL DRAWINGS FOR INSTALLATION DETAILS.

## SPLIT SYSTEM HEAT PUMP SCHEDULE

UNIT AHU/HP	BASIS OF DESIGN	MODEL HP/AHU	SA (CFM)	OA(CFM)	ESP (IN.H2O)	FAN (HP)	COOLING				HEATING				SUPPL. HEAT	AHU ELECTRICAL				HP ELECTRICAL				NOTES
							MAT° (DB/WB)	OAT° (DB/WB)	TOTAL (BTUH)	SEER2	MAT° (DB)	OAT° (DB)	TOTAL (BTUH)	HSPF2		VOLTS/PHASE	MCA	MOP	VOLTS/PHASE	MCA	MOP			
1	TRANE	5TWR4030A1/5TEM6D04	920	115	0.5	1/3	75.0/64.0	95/77	23000	18400	14.3	64.0	25	19000	7.5	7.68kW	240/1	29	30	240/1	13	20	1,2,3,4,5,6,7,8,9,10,11	
2	TRANE	5TWR4024A1/5TEM6B02	690	70	0.4	1/3	74.4/64.2	95/77	16400	12800	14.3	65.2	25	10400	7.5	4.8kW	240/1	45	45	240/1	16	25	1,2,3,4,5,6,7,8,9,10,11	

- PROVIDE 2" 30% FILTERS AND FILTER HOUSING SHOWN IN DETAILS.
- EFFICIENCIES IN ACCORDANCE WITH ARI STANDARD 210/240.
- ESP DOES NOT INCLUDE FILTER, CASING, ETC.
- PROVIDE CONTROL KIT TO INCLUDE BLOWER CONTACTOR OR STARTER, TRANSFORMER, ELECTRIC HEATER INTERLOCKS. ELECTRICAL SERVICE SHALL BE A SINGLE POINT OF CONNECTION.
- PROVIDE THERMAL EXPANSION VALVES.
- DIRECT DRIVE AHU FAN.
- COOLING CAPACITY IS NET AND DOES NOT INCLUDE FAN HEAT.
- PROVIDE UNIT MOUNTED CIRCUIT BREAKER FOR INDOOR AIR HANDLERS.
- PROVIDE BASIS OF DESIGN OR EQUAL BY LENNOX OR CARRIER.
- PROVIDE EPA APPROVED REFRIGERANT.
- PROVIDE REFRIGERANT MONITORING SYSTEM.



100% COMPLETE

DONOFRO ARCHITECTS



NOT FOR CONSTRUCTION  
OCTOBER 31, 2025

DONOFRO ARCHITECTS

2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261

THE CITY OF COTTONDALE

SHEET HVAC LEGEND, SCHEDULES, AND NOTES

JOB NUMBER: M-2024-13

DATE: OCT. 31, 2025

FOR THE: NEW POLICE STATION

DRAWN BY: JFG

CHECKED BY: KAJ

SHEET No.

M-0.1

### FAN SCHEDULE

UNIT	TYPE	CFM	MAX. FAN RPM	ESP (IN. H2O)	MAX. MOTOR POWER	SONES/db (MAX.)	BASIS OF DESIGN	MODEL	CONTROL	ELECTRICAL VOLTS/PHASE	NOTES
EF-1	CEILING	70	772	0.25	7 W	1.2	COOK	GCVF-100	INTERLOCK WITH LIGHTS	115/1	1,2,3,4,5,6,7
EF-2	CEILING	70	772	0.25	7 W	1.2	COOK	GCVF-100	INTERLOCK WITH LIGHTS	115/1	1,2,3,4,5,6,7
EF-3	INLINE	500	1521	0.35	1/4 HP	4.8	COOK	100SQN17DEC	INTERLOCK WITH WALL SWITCH	115/1	1,2,3,4,5,7

- |  |                               |   |
|--|-------------------------------|---|
| 1. PROVIDE DISCONNECT.                   | 3. PROVIDE BACK DRAFT DAMPER. | 6. PROVIDE ALUMINUM GRILLE.                               |
| 2. PROVIDE SOLID STATE SPEED CONTROLLER. | 4. PROVIDE THERMAL OVERLOAD.  | 7. PROVIDE BASIS OF DESIGN OR EQUAL BY GREENHECK OR ACME. |
|  | 5. PROVIDE DIRECT DRIVE FAN.  |   |

### AIR PURIFICATION EQUIPMENT SCHEDULE

ZONE	SUPPLY AHU	CFM	OA CFM	PRESS. IN. W.C.	BASIS OF DESIGN	MODEL	QUANTITY	ELECTRICAL		NOTES
								VOLTS/PHASE	WATTS	
	AHU-1	920	115	<0.01	GPS	DM-2	1	24V DC	14	1,2,3,4
	AHU-2	690	70	<0.01	GPS	DM-2	1	24V DC	14	1,2,3,4

- GPS = GLOBAL PLASMA SOLUTIONS.
- PROVIDE BASIS OF DESIGN OR EQUAL LISTED IN SPECIFICATIONS.
- BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES ARE NOT ACCEPTABLE.
- MANUFACTURER MUST PASS UL-867-2007 OZONE CHAMBER TESTING BY EITHER UL OR ETL

### MINI SPLIT SYSTEM AIR HANDLING UNIT SCHEDULE

UNIT	BASIS OF DESIGN	MODEL	TYPE	NOMINAL COOL CAPACITY (BTUH)	DESIGN COOLING EAT °F DB/WB	DESIGN COOLING CAPACITY (BTUH)		AIRFLOW (CFM)	VOLTS/PHASE	FAN (WATTS)	FAN FLA (AMPS)	NOTES
						COOLING TOTAL	COOLING SENSIBLE					
WM-1.1	MIITSUBISHI	PKA-A18LA1	WALL MOUNT	18000	72.5/44.7	14700	14700	575	FED FROM MHP	30	0.19	1,2,3,4,5,6,7,8,9,10,11

- |   |   |  |
|---|---|--|
| 1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB) | 4. DESIGN CAPACITY IS NET CAPACITY FOR INSTALLATION ACCOUNTING FOR 65 FT PIPE RUN LENGTHS, ETC. | 7. PROVIDE HARD WIRED REMOTE THERMOSTAT.   |
| 2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F(WB)        | 5. CALCULATE REFRIGERANT LINE SIZES BASED UPON FINAL FIELD PIPING LAYOUT.                       | 8. PROVIDE CONDENSATE PUMP.                |
| 3. DESIGN COOLING CONDITIONS ARE AT 95°F AMBIENT; DESIGN HEATING CONDITIONS ARE AT 26°F AMBIENT     | 6. EXPOSED (INDOOR OR OUTDOOR) REF PIPING SHALL BE HARD DRAWN COPPER.                           | 9. PROVIDE DISCONNECT.                     |
|   |   | 10. PROVIDE EPA APPROVED REFRIGERANT.      |
|   |   | 11. PROVIDE REFRIGERANT MONITORING SYSTEM. |

### MINI SPLIT SYSTEM CONDENSING UNIT SCHEDULE

UNIT	BASIS OF DESIGN	MODEL	NOMINAL COOL CAPACITY (BTUH)	DESIGN COOLING OUTDOOR TEMP DB	SEER2	VOLTS/PHASE	MCA (AMPS)	MOP (AMPS)	NOTES
MHP-1	MIITSUBISHI	PUY-A18NKA7	18000	95	20.2	240/1	11.0	28	1,2,3

- |   |   |
|---|---|
| 1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB) | 3. EFFICIENCY VALUES FOR EER, IEER, AND COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED AND NON-DUCTED INDOOR UNITS. |
| 2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F(WB)        |   |

THIS DRAWING & DESIGN IS THE PROPERTY OF DONOFRO ARCHITECTS & ASSOCIATES, INC. FOR ANY REUSE OF THIS DRAWING OR DESIGN, CONTACT IS REQUIRED. ANY REUSE WITHOUT THE WRITTEN CONSENT OF DONOFRO ARCHITECTS & ASSOCIATES, INC. IS PROHIBITED. © 2025 DONOFRO ARCHITECTS & ASSOCIATES, INC.

## DONOFRO ARCHITECTS

2910 CALEDONIA ST.  
MARIANNA, FL 32447  
OFFICE: (850) 482-5261  
P.O. BOX 861  
MARIANNA, FL 32447  
FAX: (850) 482-8609



SHEET HVAC SCHEDULES

NEW POLICE STATION

FOR THE: THE CITY OF COTTONDALE

FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13

DATE: OCT. 31, 2025

DRAWN BY: JFG

CHECKED BY: KAJ

100% COMPLETE

DONOFRO ARCHITECTS



NOT FOR CONSTRUCTION  
OCTOBER 31, 2025

SHEET No.

M-0.2

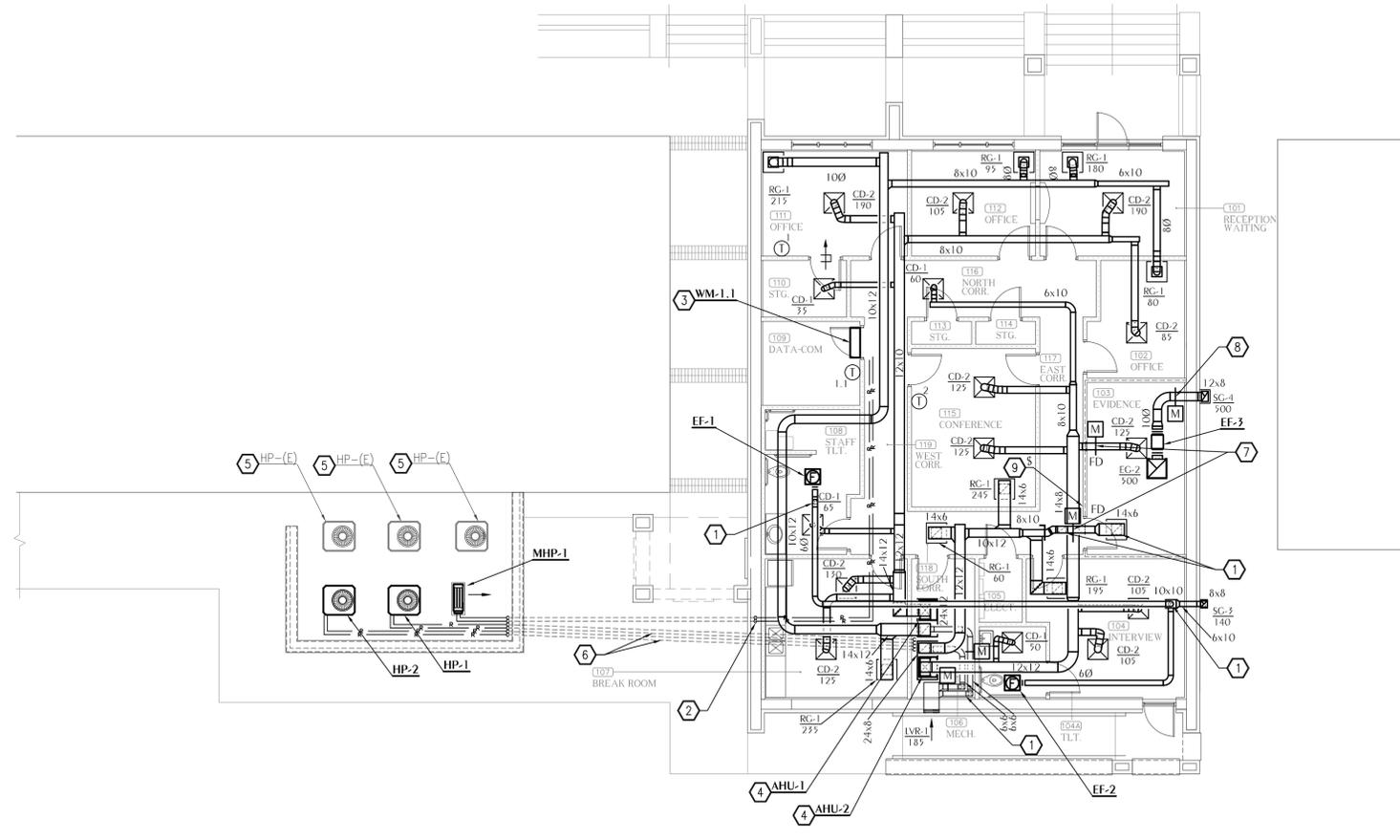
<p><b>WATFORD ENGINEERING</b></p> <p>4452 Clinton Street Marianna, Florida 32446 2449 Moores Mill Road Auburn, AL 36830</p>	Florida CA Number: 27825
	Keith A. Johnson, PE
	Florida License Number: 86457
	850.535.3447
	Project Number: 2025-018
Checked By: KAJ	Drawn By: JFG

## SHEET NOTES

- 1 RISE INTO ATTIC SPACE OCCUPIED BY ROOF TRUSSES. COORDINATE WITH STRUCTURE.
- 2 ROUTE REFRIGERANT PIPING IN UNDERGROUND PVC CHASE PER DETAIL 2/M-2.1. RISE UP IN WALL CAVITY CONTINUE ABOVE CEILING TO INDOOR UNIT.
- 3 ROUTE CONDENSATE TO HUB DRAIN.
- 4 ROUTE CONDENSATE TO FLOOR DRAIN CONNECTED TO STORMWATER.
- 5 EXISTING EQUIPMENT RELOCATED AND SERVICED ON SEPARATE CONTRACT THROUGH CITY MAINTENANCE.
- 6 ROUTE REFRIGERANT PIPING UNDERGROUND IN PVC CHASE PER DETAIL 1/M-2.1. RISE UP IN MECHANICAL ROOM AND CONTINUE TO INDOOR UNIT.
- 7 PROVIDE LOW LEAKAGE DAMPER INTERLOCKED WITH CLEAN AGENT FIRE SUPPRESSION SYSTEM. SUPPLY AND RETURN DAMPER SHALL BE OPEN DURING NORMAL OPERATION AND SHALL BE SHUT UPON CLEAN AGENT FIRE SUPPRESSION SYSTEM ACTIVATION.
- 8 PROVIDE LOW LEAKAGE 120 VOLT DAMPER. DAMPER SHALL BE INTERLOCKED WITH FAN AND SHALL OPEN WHEN FAN IS IN OPERATION.
- 9 SWITCH SHALL BE VISIBLY LABELED "EMERGENCY EXHAUST FAN".

THIS DRAWING & DESIGN SHALL BE THE PROPERTY OF DONOFRO ARCHITECTS. NO PART OF THIS DRAWING OR DESIGN SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF DONOFRO ARCHITECTS. © DONOFRO ARCHITECTS

**DONOFRO ARCHITECTS**  
 P.O. BOX 861  
 MARIANNA, FL 32447  
 OFFICE: (850) 482-5261



**HVAC NEW WORK FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"

SHEET TITLE: HVAC NEW WORK FLOOR PLAN  
 FOR THE: NEW POLICE STATION  
 THE CITY OF COTTONDALE  
 FRONT ST. COTTONDALE, FLORIDA

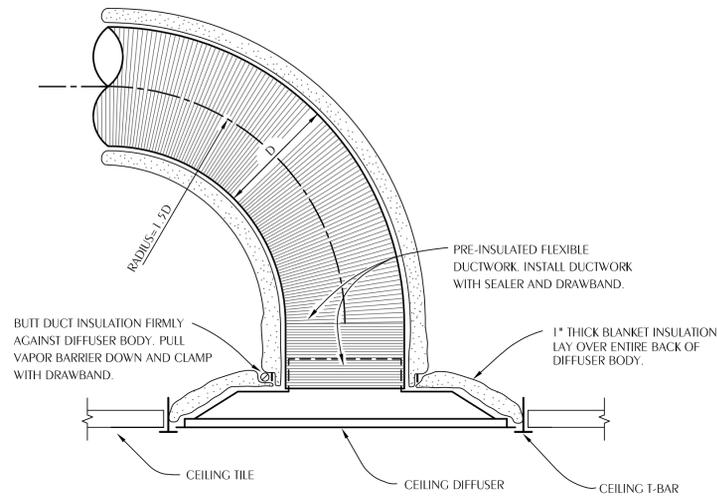
JOB NUMBER: M-2024-13  
 DATE: OCT. 31, 2025  
 DRAWN BY: JFG  
 CHECKED BY: KAJ

SHEET No.  
**M-1.0**

**WATFORD ENGINEERING**  
 Florida CA Number: 27825  
 Keith A. Johnson, PE  
 Florida License Number: 86457  
 850.535.3447  
 Project Number: 2025-018  
 Checked By: KAJ  
 Drawn By: JFG  
 4452 Clinton Street Marianna, Florida 32446  
 2449 Moores Mill Road Auburn, AL 36830

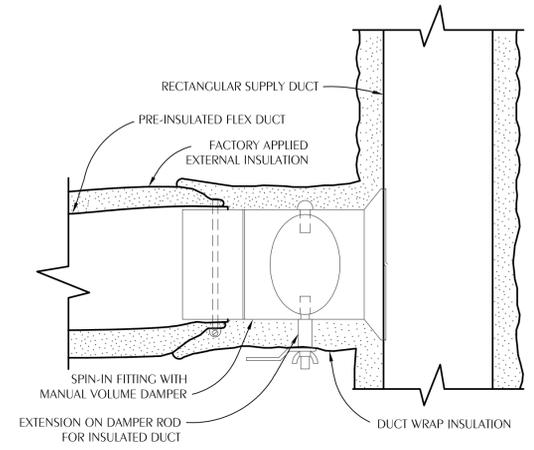
**DONOFRO ARCHITECTS**  
**NOT FOR CONSTRUCTION**  
 OCTOBER 31, 2025

100% COMPLETE



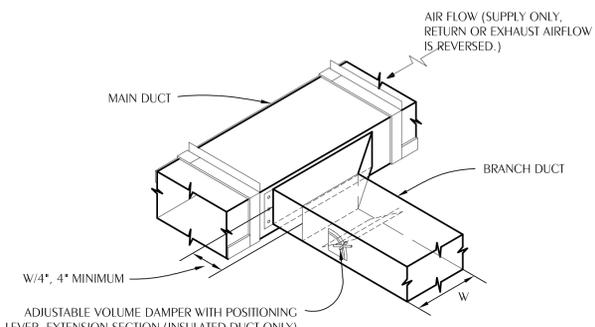
**NOTES:**  
 FLEX DUCT SHALL BE NO LONGER THAN 5'-0". FLEXIBLE DUCT SHALL HAVE REINFORCED, METALIZED POLYESTER JACKET WITH NO FIBERGLASS EROSION IN THE AIRSTREAM AND AN ENCAPSULATED WIRE HELIX. FLEX DUCT SHALL HAVE OPERATING PRESSURE OF 6" W.G. AND NEGATIVE OPERATING PRESSURE OF 0.75" W.G. FLEX DUCT SHALL HAVE R-VALUE OF R-6 AND MEET REQUIREMENTS OF UL-181, 2023 FLORIDA ENERGY CODE, NFPA 90A AND NFPA 90B. ATCO 36 OR APPROVED EQUAL.  
 PROVIDE 24x24 LAY IN PANEL FOR DIFFUSERS IN LAY IN CEILINGS.  
 PROVIDE BEVELED MOUNTING FRAME FOR DIFFUSERS IN HARD CEILINGS.

**1 TYPICAL CEILING DIFFUSER DETAIL**  
 M-2.0 SCALE: NONE



**NOTES:**  
 CONNECT FLEXIBLE DUCT TO FITTING WITH DRAWBAND AND SEALER.  
 ROUND HARD DUCT RUNOUTS SHOULD START WITH SPIN-IN FITTINGS SIMILAR TO THIS DETAIL.  
 PROVIDE CABLE ACTIVATED DAMPER WITH ADJUSTMENT IN FACE OF CEILING DIFFUSER FOR INACCESSIBLE TAKEOFFS.  
 FLEXIBLE INSULATION SHALL BE 2" THICK, ASTM C553, TYPE 1, CLASS B-3 WITH 1 PCF DENSITY AND UL RATED ALUMINUM FOIL VAPOR BARRIER (FSK)

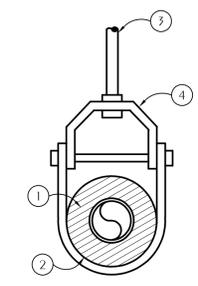
**2 TYPICAL FLEX DUCT TAKEOFF DETAIL**  
 M-2.0 SCALE: NONE



ADJUSTABLE VOLUME DAMPER WITH POSITIONING LEVER, EXTENSION SECTION (INSULATED DUCT ONLY) AND LOCKING WING NUT. VOLUME DAMPER SHALL BE SINGLE BLADE OR MULTI-BLADE DEPENDING ON DUCT SIZE. SEE SPECIFICATIONS. LOCATE DAMPER AT LEAST 12" DOWNSTREAM OF TAKEOFF.

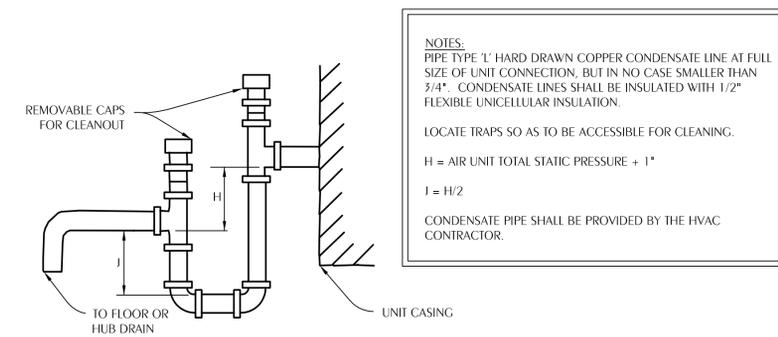
**NOTES:**  
 PROVIDE CABLE ACTIVATED DAMPER WITH ADJUSTMENT IN FACE OF AIR DEVICE FOR INACCESSIBLE TAKEOFFS LOCATED ABOVE HARD CEILINGS.  
 FLEXIBLE INSULATION SHALL BE 2" THICK, ASTM C553, TYPE 1, CLASS B-3 WITH 1 PCF DENSITY AND UL RATED ALUMINUM FOIL VAPOR BARRIER (FSK)

**3 TYPICAL BRANCH DUCT TAKEOFF**  
 M-2.0 SCALE: NONE



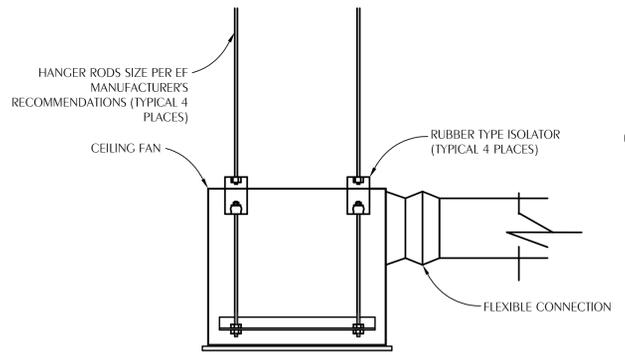
- 1 INSULATION
- 2 PIPE COVERING PROTECTION SADDLE
- 3 HANGER ROD FASTEN TO STRUCTURE PER SPECIFICATION
- 4 CLEVIS TYPE HANGER

**4 OVERHEAD PIPE SUPPORT**  
 M-2.0 SCALE: NONE

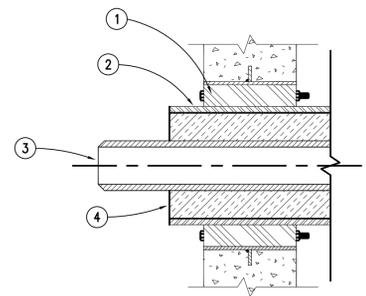


**NOTES:**  
 PIPE TYPE 1" HARD DRAWN COPPER CONDENSATE LINE AT FULL SIZE OF UNIT CONNECTION, BUT IN NO CASE SMALLER THAN 3/4". CONDENSATE LINES SHALL BE INSULATED WITH 1/2" FLEXIBLE UNICELLULAR INSULATION.  
 LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.  
 $H = \text{AIR UNIT TOTAL STATIC PRESSURE} + 1"$   
 $J = H/2$   
 CONDENSATE PIPE SHALL BE PROVIDED BY THE HVAC CONTRACTOR.

**6 NEGATIVE PRESSURE CONDENSATE DRAIN TRAP**  
 M-2.0 SCALE: NONE

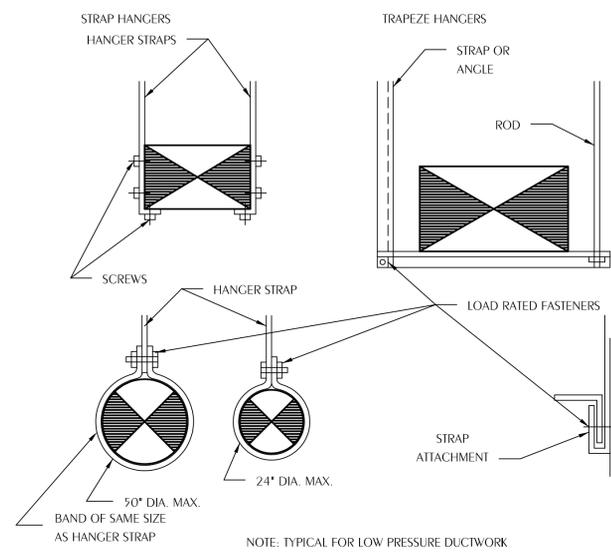


**8 CEILING FAN DETAIL**  
 M-2.0 SCALE: NONE

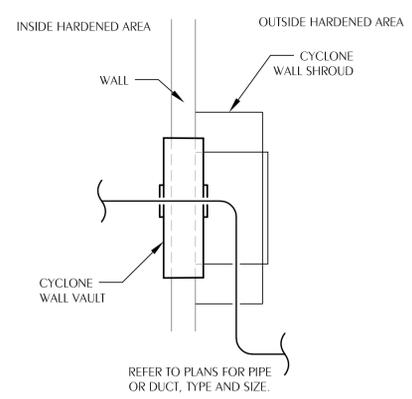


- 1 WALL OR FLOOR SEAL APPURTENANCES PER SPECIFICATIONS
- 2 PIPE SLEEVE PER SPECIFICATIONS
- 3 PIPING
- 4 INSULATION

**9 TYPICAL WALL PIPE PENETRATION**  
 M-2.0 SCALE: NONE



**5 DUCT HANGER DETAILS**  
 M-2.0 SCALE: NONE



**7 HARDENED WALL PENETRATION DETAIL**  
 M-2.0 SCALE: NONE

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE OR MODIFICATION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF DONOFRO ARCHITECTS IS PROHIBITED AND SUBJECT TO LEGAL ACTION.

**DONOFRO ARCHITECTS**  
 P.O. BOX 861  
 MARIANNA, FL 32447  
 OFFICE: (850) 482-5261  
 2910 CALEDONIA ST.  
 MARIANNA, FL 32446  
 FAX: (850) 482-8609



SHEET HVAC DETAILS  
 TITLE: NEW POLICE STATION  
 FOR THE: THE CITY OF COTTONDALE  
 FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
 DATE: OCT. 31, 2025  
 DRAWN BY: JFG  
 CHECKED BY: KAJ

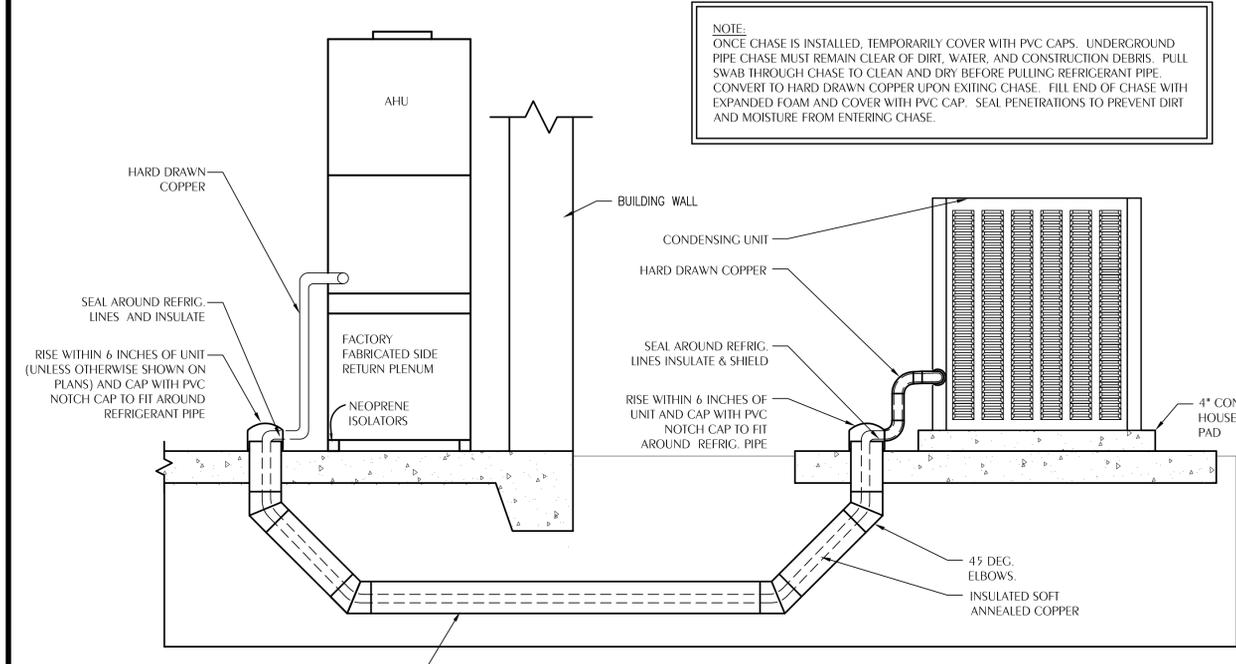
SHEET No.

**M-2.0**

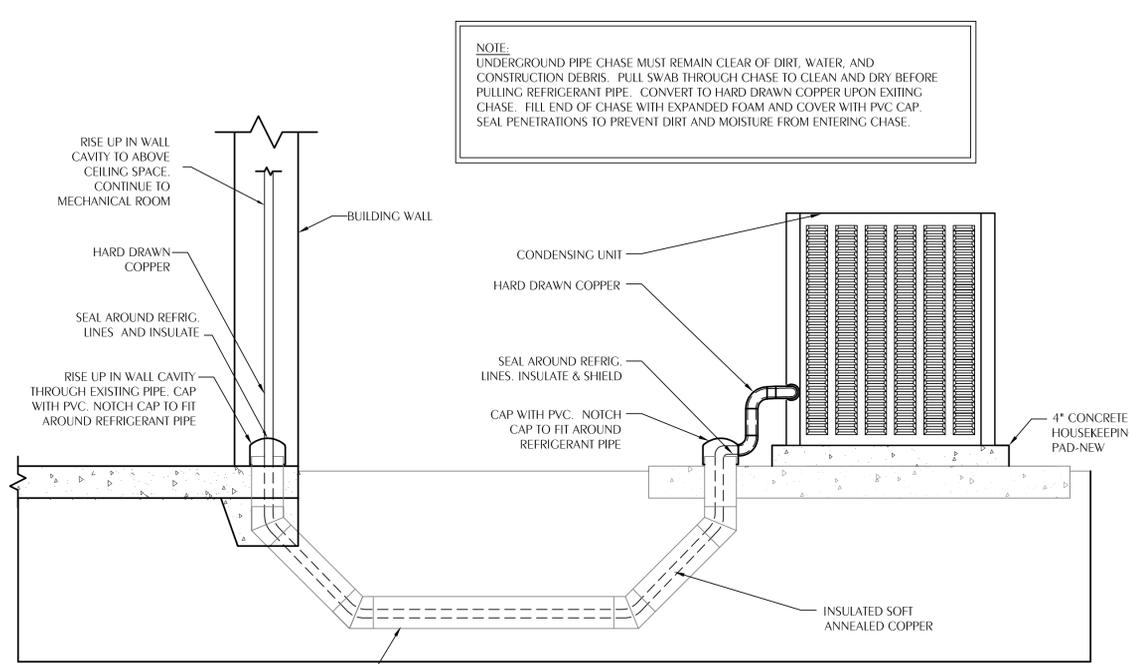
**WATFORD ENGINEERING**  
 Florida CA Number: 27825  
 Keith A. Johnson, PE  
 Florida License Number: 88457  
 800.535.3447  
 Project Number: 2025-018  
 Checked By: KAJ  
 Drawn By: JFG  
 4452 Clinton Street Marianna, Florida 32446  
 2449 Moores Mill Road Auburn, AL 36830

100% COMPLETE

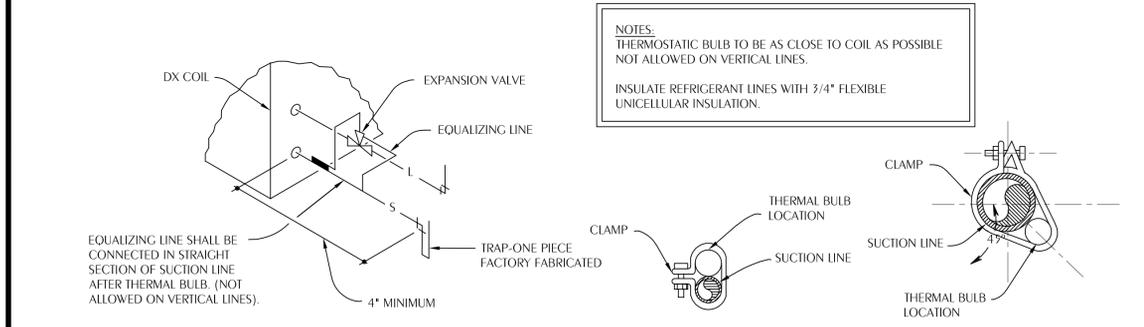
**DONOFRO ARCHITECTS**  
**NOT FOR CONSTRUCTION**  
 OCTOBER 31, 2025



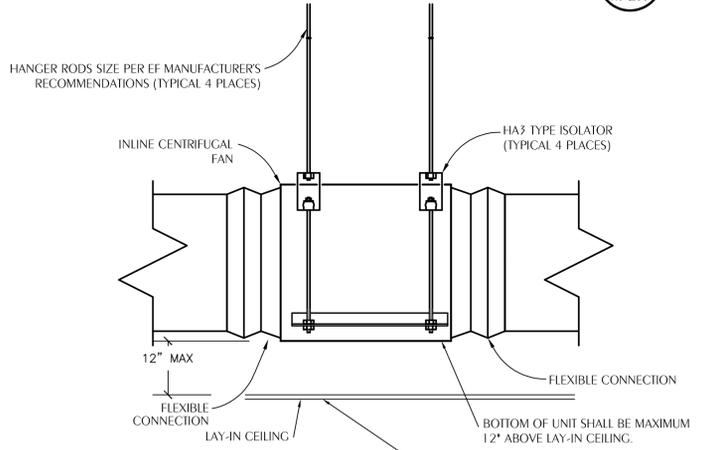
**1 UNDERGROUND REFRIGERANT PIPING DETAIL**  
M-2.1 SCALE: NONE



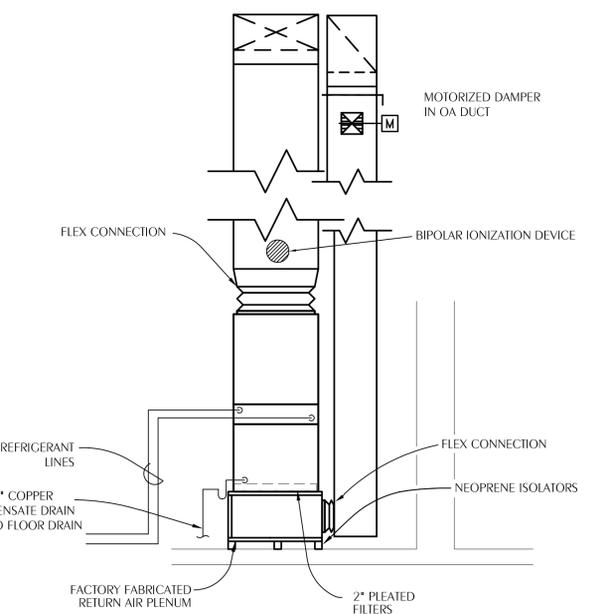
**2 UNDERGROUND REFRIGERANT PIPING DETAIL**  
M-2.1 SCALE: NONE



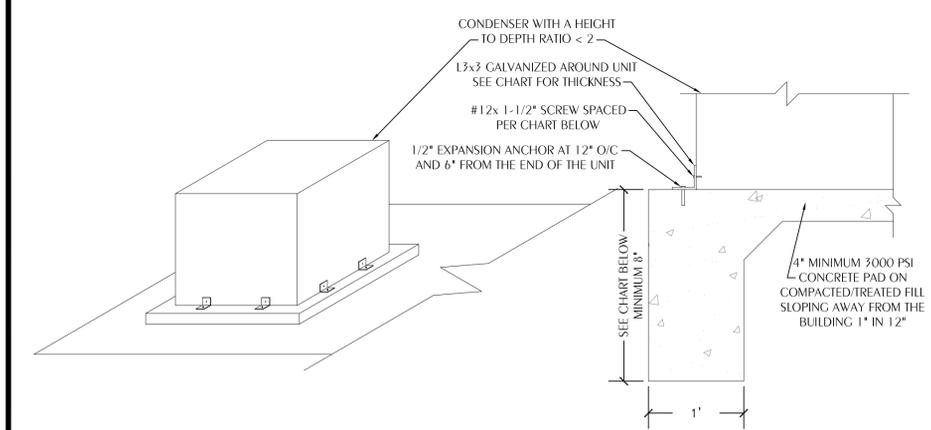
**3 REFRIGERANT COIL CONNECTION DETAIL**  
M-2.1 SCALE: NONE



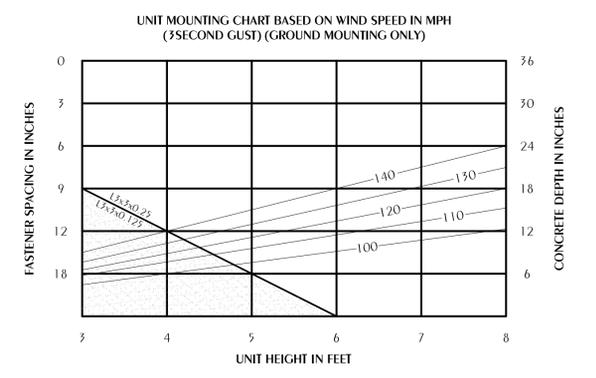
**4 INLINE FAN DETAIL**  
M-2.1 SCALE: NONE



**5 VERTICAL UPFLOW AHU DETAIL**  
M-2.1 SCALE: NONE



**5 OUTDOOR MECHANICAL UNIT MOUNTING DETAIL**  
M-2.1 SCALE: NONE



DESIGN CRITERIA:

CODE:	ASCE 7-05
VELOCITY:	SEE BELOW
Kz:	0.70
Kzt:	1.00
Kd:	0.85
IMPORTANCE:	1.15
EXPOSURE:	B
Cf:	1.3
Ce:	0.85
qz:	
100 mph	17.52 psf
110 mph	21.20 psf
120 mph	25.22 psf
130 mph	29.60 psf
140 mph	34.33 psf
Pdist(qz):	
100 mph	19.36 psf
110 mph	23.42 psf
120 mph	27.87 psf
130 mph	32.71 psf
140 mph	37.94 psf

NOTES:  
SECURE REFRIGERANT LINES AND CONDENSATE PIPING WITH UNISTRUT.  
PROVIDE FACTORY FABRICATED RETURN AIR PLENUM OR ENGINEER APPROVED EQUAL.  
SIZE COPPER CONDENSATE LINE AT FULL SIZE OF UNIT CONNECTION, BUT IN NO CASE SMALLER THAN 3/4\"/>

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. NO PART OF THIS DRAWING IS TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF DONOFRO ARCHITECTS.

**DONOFRO ARCHITECTS**  
2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261  
P.O. BOX 861  
MARIANNA, FL 32447  
FAX: (850) 482-8609

SHEET HVAC DETAILS  
TITLE:  
NEW POLICE STATION  
FOR THE:  
**THE CITY OF COTTONDALE**  
FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER:  
M-2024-13  
DATE:  
OCT. 31, 2025  
DRAWN BY:  
JFG  
CHECKED BY:  
KAJ

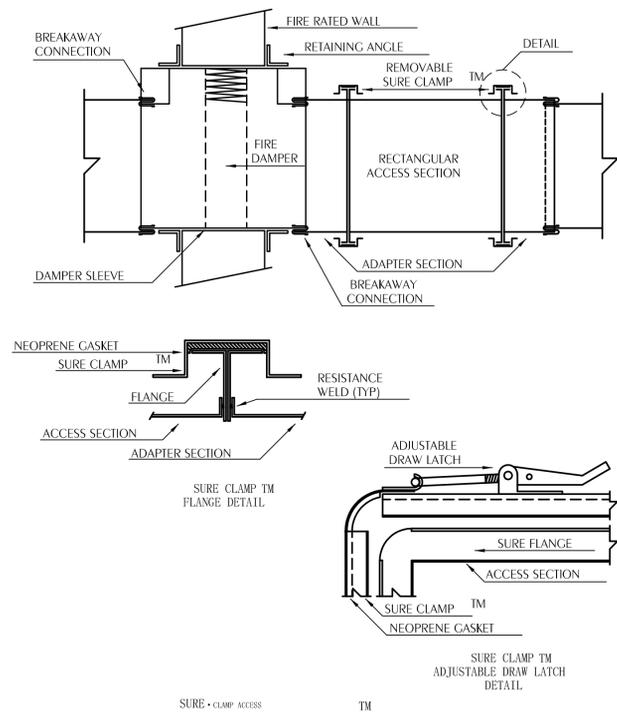
SHEET No.  
**M-2.1**

**WATFORD ENGINEERING**  
4452 Clinton Street Marianna, Florida 32446  
2449 Moores Mill Road Auburn, AL 36830  
Florida CA Number: 27825  
Keith A. Johnson, PE  
Florida License Number: 88457  
850.535.3447  
Project Number: 2025-018  
Checked By: KAJ  
Drawn By: JFG

**100% COMPLETE**  
DONOFRO ARCHITECTS  
**NOT FOR CONSTRUCTION**  
OCTOBER 31, 2025

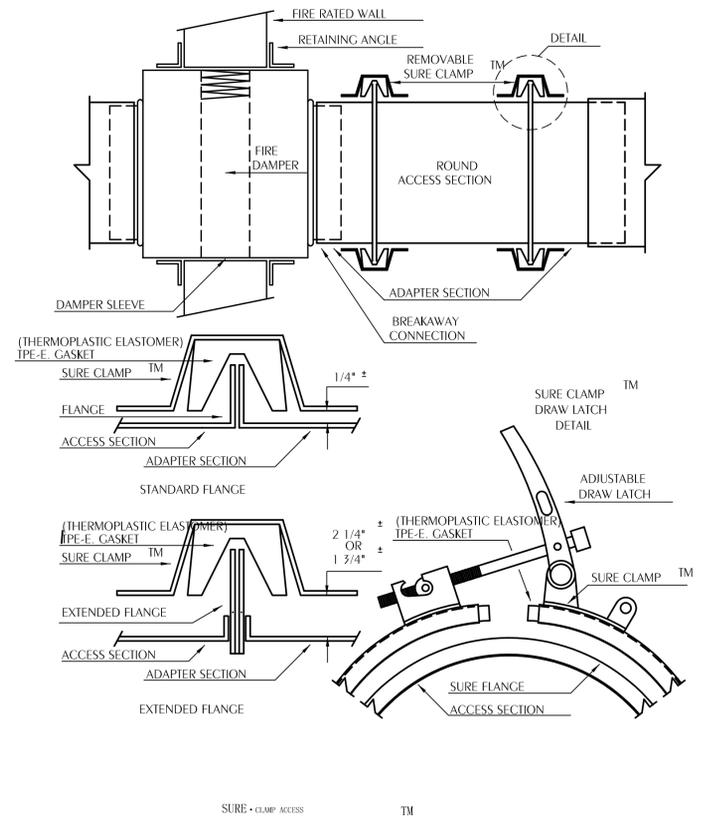
# 1 RECTANGULAR REMOVABLE DUCTWORK SECTION FIRE DAMPER ACCESS

M-3.0 SCALE: NONE



# 2 ROUND REMOVABLE DUCTWORK SECTION FIRE DAMPER ACCESS

M-3.0 SCALE: NONE



## VERTICAL INSTALLATION

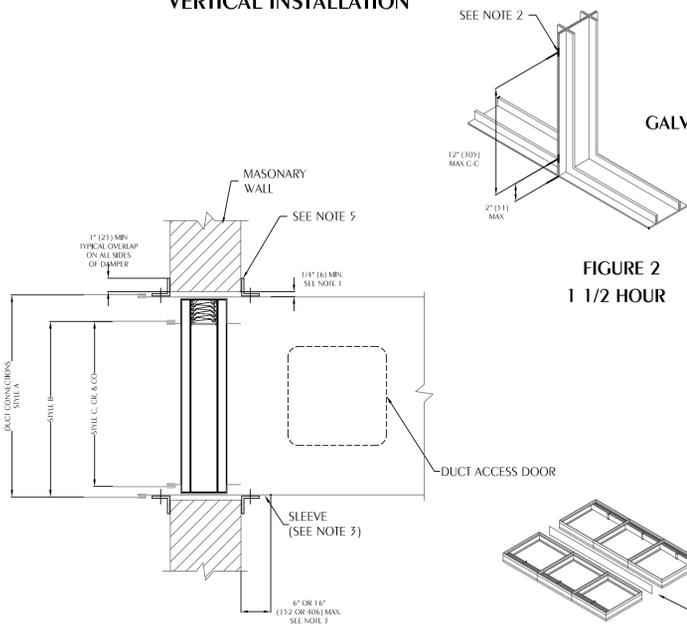


FIGURE 2  
1 1/2 HOUR

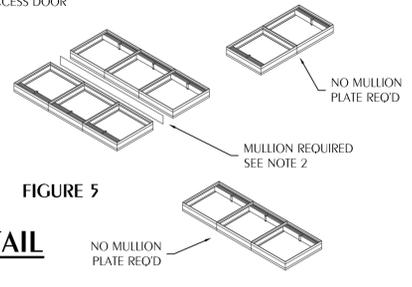


FIGURE 5

1. **Opening Clearance**  
The opening in the wall or floor shall be larger than the damper/sleeve assembly to permit installation or expansion. For two angle installations the opening shall be a minimum of 1/8" per foot (3 per 305) larger than the overall size of the damper/sleeve assembly. The maximum opening size shall not exceed 1/8" per foot (3 per 305) plus 2" (51), nor shall the opening be less than 1/4" (6) larger than the damper/sleeve assembly. For one angle installations, the opening shall be a minimum of 1/4" (6) to a maximum of 1" (25) larger than the overall size of the damper/sleeve assembly. The opening may be as much as 2" (51) larger than the damper/sleeve assembly if a 1.6α (1.6) mounting angles is utilized.
2. **Fasteners and Multiple Section Assembly**  
Use No. 10 (M5) bolts or screws, 3/16" (5) rivets, tack welds or spot welds as depicted in figures 3 and 4 and spaced as follows when joining individual dampers to make multiple section damper assemblies or when fastening damper to the sleeve:  
Vertical Mount (In wall)  
Galvanized steel dampers 12" (305) spacing  
Stainless steel dampers 6" (152) spacing  
Horizontal Mount (In floor)  
All dampers 6" (152) spacing  
Multiple section horizontal mount dampers require a 1/4" gage thick x 4 1/2" (2 x 114) wide steel reinforcing plate sandwiched between the damper frames with 1/2" (12) long welds staggered intermittently and spaced on maximum 6" (152) centers. The reinforcing plate must be the same material as the dampers. The length must be equal to the damper width of two or more adjoining damper sections. Reinforcing plates are not required for assemblies consisting of two dampers attached end-to-end or three dampers attached side-to-side as depicted in figure 5.
3. **Damper Sleeve**  
Sleeve thickness must be equal to or thicker than the duct connected to it. Sleeve gage requirements are listed in the SMACNA Fire, Smoke and Radiation Damper Installation Guide for HVAC Systems and in NFPA90A. If a breakaway style duct/sleeve connection is not used, the sleeve shall be a minimum of 16 gage (1.6) for dampers up to 36" (914) wide by 24" (610) high and 14 gage (1.9) for dampers exceeding 36" (914) wide by 24" (610) high. Damper sleeve shall not extend more than 6" (152) beyond the fire wall or partition unless damper is equipped with a factory installed access door. Sleeve may extend up to 16" (406) beyond the fire wall or partition on sides equipped with a factory installed access door. Sleeve shall terminate at both sides of wall within dimensions shown.
4. **Damper Orientation**  
Use "Air Flow" and "Mount with Arrow Up" labels on Dynamic DIBD and DIBDX models for proper damper orientation. For Static IBD models use only "Mount With Arrow Up" label on damper for proper damper orientations.
5. **Mounting Angles**  
Mounting angles shall be a minimum of 11/2" x 11/2" x 20 gage steel (38 x 38 x 1.0). For openings in metal stud, wood stud walls or concrete/masonry walls and floors of sizes 90" x 49" or 49" x 90" (2286 x 1245 or 1245 x 2286) and less mounting angles are only required on one side of the wall or top side of the floor and must be attached to both the sleeve and the wall or floor. Mounting angles may be installed directly to the metal stud under the wall board on metal stud wall installations only. Larger openings require mounting angles on both sides of the partition and must be attached only to the sleeve. Mounting angles must overlap the partition a minimum of 1" (25). Do not weld or fasten angles together at corners of dampers. Ruskin fire dampers may be installed using Ruskin FAST angle for one angle installation or Ruskin PFMA for two angle installations.
6. **Duct/Sleeve Connections**
  - a. **Break-away Duct/Sleeve Connections**  
Rectangular ducts must use one or more of the connections: plain "S" slip, flanged "S" slip, double "S" slip, inside slip joint, standing S, standing S (angle reinforced), standing S (bar reinforced), standing S (angle reinforced), or drive slip joint.  
A maximum of two #10 sheet metal screws on each side and the bottom, located in the center of the slip pocket and penetrating both sides of the slip pocket may be used. Connections using these slip joints on the top and bottom with flat drive slips up to 20" (508) long on the sides may also be used.
  - b. **Round and Oval Break-away Connections**  
Round and flat oval break-away connections must use either a 4" (102) wide drawband or #10 sheet metal screws spaced equally around the circumference of the duct as follows:  
• Duct diameters 22" (559) and smaller - Maximum 3 screws.  
• Duct diameters over 22" (559) and including 36" (914) - Maximum 5 screws.  
• Duct diameters over 36" (914) and up to and including 191" (4851) total perimeter - Maximum 8 screws. For flat oval ducts, the diameter is considered the largest (major) dimension of the duct.  
**Note:** When optional sealing of these joints is desired, the following sealants may be applied in accordance with the sealant manufacturer's instructions:  
Handcast, Inc. - Iron Grip 601 Precision-PA2084T  
Eco Duct Seal 44-52 Design Polymers - DP 1010
  - c. **Flanged Break-away Style Duct Sleeve Connections**  
Flanged connection systems manufactured by Ductmate, Nexus or Ward are approved break-away connections when installed as shown on the Flanged System Breakaway Connections Supplement. TDC and TDF roll-formed flanged connections using 3/8" (10) steel bolts and nuts, and metal cleats, as tested by SMACNA, are approved break-away connections when installed as shown on the Flanged System Breakaway Connections Supplement.
  - d. **Non-Break-away Duct/Sleeve Connections**  
If other duct sleeve connections are used, the sleeve shall be a minimum of 16 gage (1.6) for dampers up to 36" (914) wide x 24" (610) high and 14 gage (2.0) for dampers exceeding 36" (914) wide x 24" (610) high.
7. **Installation and Maintenance**  
To ensure optimum operation and performance, the damper must be installed so it is square and free from racking. Each fire damper should be maintained and tested on a regular basis and in accordance with the latest editions of NFPA 90A and local codes. Care should be exercised to ensure that such tests are performed safely and do not cause system damage.

# 3 TYPICAL VERTICAL FIRE DAMPER DETAIL

M-3.0 SCALE: NONE

Florida CA Number: 27825  
Keith A. Johnson, PE  
Florida License Number: 88457  
850.530.3447  
Project Number: 2025-018  
Checked By: KAJ  
Drawn By: JFG

100% COMPLETE

DONOFRO ARCHITECTS  
NOT FOR CONSTRUCTION  
OCTOBER 31, 2025

SHEET: FIRE DAMPER DETAILS  
TITLE:  
NEW POLICE STATION  
FOR THE:  
THE CITY OF COTTONDALE  
FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
DATE: OCT. 31, 2025  
DRAWN BY: JFG  
CHECKED BY: KAJ

SHEET No.

M-3.0

THIS DRAWING IS THE PROPERTY OF DONOFRO ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE OR MODIFICATION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF DONOFRO ARCHITECTS IS PROHIBITED AND SUBJECT TO LEGAL ACTION.

DONOFRO ARCHITECTS  
2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261  
P.O. BOX 861  
MARIANNA, FL 32447  
FAX: (850) 482-8609

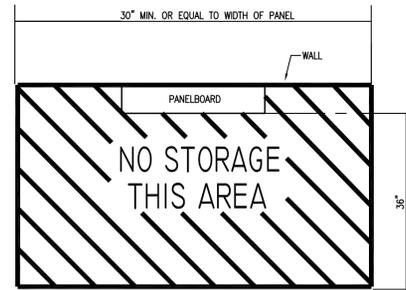
## ELECTRICAL GENERAL NOTES

- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO AV DRAWINGS FOR REQUIRED RACEWAYS, EXACT SIZE, AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
- RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
- LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR AUDIO-VISUAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL "AV" EQUIPMENT LOCATIONS TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
- FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
- ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH.
- ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC., SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
- GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT 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.
- THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE AUDIO-VISUAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
- FURNISH ALL EQUIPMENT AND LABOR, PERFORM ALL LABOR WITH SUPERVISION, BEAR ALL EXPENSES, AS NECESSARY FOR THE SATISFACTORY COMPLETION OF ALL WORK READY FOR OPERATION.
- COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK. THE STATE BUILDING CODE, 2020 NATIONAL ELECTRIC CODE, AND 2023 FBC 8TH EDITION. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.
- OBTAIN ARCHITECT'S/ENGINEER'S APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELBOARDS, ETC., PRIOR TO PURCHASING.
- TERMINATIONS FOR ALL EQUIPMENT SHOWN TO HAVE TEMPERATURE RATING OF 75deg C PER NEC 2020 ART. 110.14 & TABLE 310.15(B)(16).
- WHERE USED, PROVIDE MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE CIRCUIT BREAKERS SERVING MULTI-WIRE BRANCH CIRCUITS IN ACCORDANCE WITH NEC 210.4(B).

## FIRESTOPPING NOTES

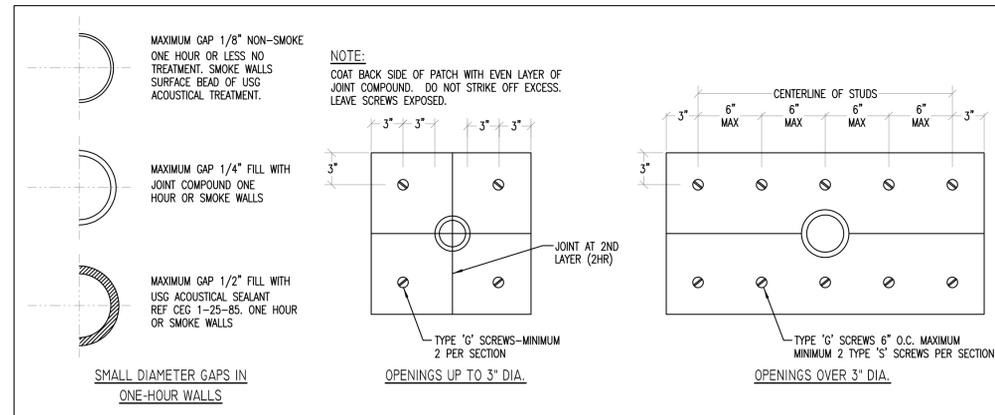
USE ONLY FIRESTOP PRODUCTS THAT HAVE BEEN UL 1479, ASTM E-814, OR UL 2079 TESTED FOR SPECIFIC FIRE RATED CONSTRUCTION CONDITIONS. THE CONDITIONS AND MATERIALS ARE SPECIFIED AS FOLLOWS:

- FOR PENETRATIONS BY NON COMBUSTIBLE ITEMS USE 3M FIRE STOP SEALANT 2000 OR 3M FIRE BARRIER MOLDABLE PUDDY PADS MPP+.
- FOR FIRE RATED CONSTRUCTION JOINTS AND OTHER GAPS USE 3M FIRESTOP SEALANT 2000.
- FOR PENETRATIONS BY COMBUSTIBLE ITEMS USE 3M FIRE BARRIER CP25 WB OR 3M FIRE BARRIER FS 195 WRAPSTRIP.
- FOR PENETRATIONS BY COMBUSTIBLE PLASTIC PIPE (OPEN PIPING SYSTEMS) USE 3M FIRE BARRIER PPO PLASTIC PIPE DEVICE.
- FOR LARGE SIZE/COMPLEX PENETRATIONS USE 3M FIRESTOP FOAM 2001 OR 3M FIRE BARRIER CS 195 COMPOSITE SHEET.
- FOR OPENINGS BETWEEN STRUCTURALLY SEPARATE SECTIONS OF WALL AND FLOORS USE 3M FIRE BARRIER CP 25 WB.



## TYPICAL CLEARANCE AT ELECTRICAL PANELS

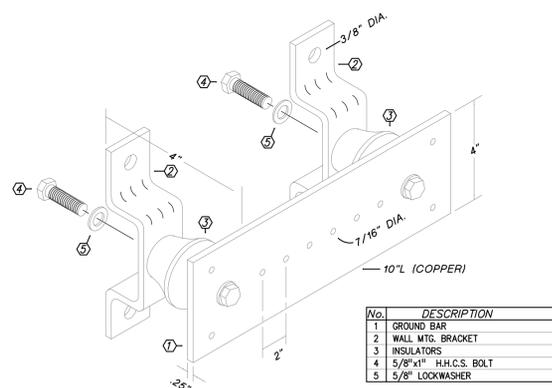
1  
E-0.1  
SCALE: N.T.S.



## 2 FIRE WALL PENETRATIONS

E-0.1  
SCALE: N.T.S.

-APPLIES TO ALL CORRIDOR, SMOKE AND FIRE RATED WALLS



### GROUND BAR NOTES:

- INSTALL ONE BAR AT EACH COMMUNICATIONS BACKBOARD.
- ROUTE #3 BARE CU IN 1\"/>

No.	DESCRIPTION
1	GROUND BAR
2	WALL MTG. BRACKET
3	INSULATORS
4	5/8\"/>
5	5/8\"/>

## 3 'CBB' INSULATED GROUNDING BUSBAR DETAIL

E-0.1  
SCALE: N.T.S.

## ELECTRICAL LEGEND

### CEILING OUTLETS

- RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT TYPICAL
- RECESSED 2' X 4' LED FIXTURE INSTALLED FOR CONTINUOUS OPERATION
- INDICATES FIXTURE WITH EMERGENCY UNIT BATTERY PACK
- SURFACE MOUNTED LED STRIP FIXTURE MARK "FS" AS NOTED
- EXIT LIGHT
- JUNCTION BOX
- RECESSED/SURFACE MOUNT LIGHT
- RECESSED/SURFACE MOUNT LIGHT INSTALLED FOR CONTINUOUS OPERATION

### PANELS AND POWER

- 120/240 VOLT PANELBOARD
- EXISTING 120/240 VOLT PANELBOARD
- NON-FUSIBLE DISCONNECT SWITCH, XXYYZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING

### FIRE ALARM SYSTEM

- FIRE ALARM SYSTEM MANUAL PULL STATION, MT 48" AFF TO C/L
- FIRE ALARM SYSTEM SIGNAL HORN/STROBE, MT 80" AFF TO BOTTOM
- WEATHERPROOF FIRE ALARM SYSTEM SIGNAL HORN, MOUNT 80" AFF TO BOTTOM
- FIRE ALARM SYSTEM STROBE, MT 80" AFF TO BOTTOM
- FIRE ALARM SYSTEM AUTOMATIC HEAT DETECTOR, 135 DEGREE/RATE OF RISE TYPE, CEILING MOUNTED
- FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR, CEILING MOUNTED
- FIRE ALARM SYSTEM RACEWAY INSTALLED CONCEALED, ARROW INDICATES HOMERUN TO FIRE ALARM CONTROL PANEL
- FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN SUPPLY AIR DUCT
- FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN RETURN AIR DUCT
- NORMALLY CLOSED RELAY IN H.V.A.C CONTROL CIRCUIT TO OPEN UPON ACTUATION OF BUILDING FIRE ALARM SYSTEM TO SHUT DOWN A/C UNIT, CONTACTS RATED 5 AMPS, 120 VOLTS.
- REMOTE INDICATOR LIGHT, FIELD-VERIFY EXACT LOCATION OF INSTALLATION
- FIRE ALARM SYSTEM MAGNETIC DOOR HOLDERS, WHERE APPLICABLE, EC TO PROVIDE 120V POWER AT DEVICE
- FIRE ALARM SYSTEM FLOW SWITCH
- FIRE ALARM SYSTEM TAMPERS SWITCH

### WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F.)

- A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT, MOUNT 48" AFF TO C/L
- A.C. TYPE, 3-WAY, 20 AMP, 120/277 VOLT, MOUNT 48" AFF TO C/L
- A.C. TYPE, 4-WAY, 20 AMP, 120/277 VOLT, MOUNT 48" AFF TO C/L
- MOTOR-RATED TOGGLE SWITCH, FIELD-VERIFY EXACT HT & LOCATION WITH EQUIPMENT INSTALLER
- WALL MOUNTED OCCUPANCY SENSOR (PASSIVE INFRARED) EQUAL TO WATTSTOPPER PW-301, SET DELAY OFF TIME FOR 10 MINUTES (120/277V), MOUNT 48" AFF TO C/L
- WALL MOUNTED OCCUPANCY SENSOR EQUAL TO WATTSTOPPER DSW-301, DUAL TECHNOLOGY, MOUNT 48" AFF TO C/L; SET DELAY OFF TIME FOR 10 MINUTES (120/277V)
- 0-10V DIMMING W/ 50%, 75%, & 100% PRE-SETS WALL MOUNTED OCCUPANCY SENSOR (PASSIVE INFRARED) EQUAL TO WATTSTOPPER PW-311, SET DELAY OFF TIME FOR 10 MINUTES (120/277V), MOUNT 48" AFF TO C/L. IF DIMMING IS DESIRED IN A SPACE, A SEPARATE 0-10V 2-WIRE CONTROL CIRCUIT (MIN. 18GA) TO BE INSTALLED FROM DEVICE TO ALL FIXTURES IN ASSOCIATED DIMMING ZONE (FIXTURES TO BE DAISY-CHAINED).
- 0-10V DIMMING W/ 50%, 75%, & 100% PRE-SETS WALL MOUNTED OCCUPANCY SENSOR (PASSIVE INFRARED & ULTRASONIC) EQUAL TO WATTSTOPPER DW-311, SET DELAY OFF TIME FOR 10 MINUTES (120/277V), MOUNT 48" AFF TO C/L. IF DIMMING IS DESIRED IN A SPACE, A SEPARATE 0-10V 2-WIRE CONTROL CIRCUIT (MIN. 18GA) TO BE INSTALLED FROM DEVICE TO ALL FIXTURES IN ASSOCIATED DIMMING ZONE (FIXTURES TO BE DAISY-CHAINED).
- WALL MOUNTED OCCUPANCY SENSOR (PASSIVE INFRARED & ULTRASONIC) EQUAL TO WATTSTOPPER DW-200, SET DELAY OFF TIME FOR 10 MINUTES (120/277V), MOUNT 48" AFF TO C/L... W/ 50%, 75%, & 100% PRESETS. NOTE THAT FOR EACH LEVEL OF LIGHT, A SEPARATE SWITCH LEG IS REQUIRED TO BE INSTALLED.
- PHILIPS SUNRISE 1200W ELECTRONIC WALL DIMMER (MODEL# SR1200Z1UNV), EC TO INSTALL 120V HOTLEG (LOAD SIDE OF OCCUPANCY SENSOR SWITCH) TO DIMMING MODULE AND FROM MODULE TO FIXTURE; IN ADDITION, INSTALL A 2-WIRE (#16 AWG) DIMMING CIRCUIT FROM DIMMER MODULE TO LIGHTING FIXTURE(S) TO BE CONTROLLED. WITHIN EACH ZONE, DIMMING CIRCUIT MAY BE DAISY-CHAINED AND NOT SEPARATE RUNS FROM MODULE TO EACH FIXTURE REQUIRED. IF OTHER THAN SPECIFIED MANUFACTURERS/FIXTURE TYPES FURNISHED, EC TO VERIFY THAT DIMMING MODULE SUPPLIED TO BE 100% COMPATIBLE WITH FIXTURES TO BE INSTALLED. MOUNT 48" AFF TO C/L. IF EMERGENCY EGRESS FIXTURES W/ BATTERY BACKUP ARE WITHIN ZONE OF CONTROL, INSTALL A SEPARATE NON-SWITCHED 120V HOTLEG FOR CONTINUAL CHARGING OF BATTERIES.

### AUTOMATIC LIGHTING CONTROL SYSTEM

- 180° CEILING MOUNTED OCCUPANCY SENSOR EQUAL TO WATTSTOPPER DT-205 (LOW VOLTAGE); DUAL TECHNOLOGY INFRARED AND ULTRASONIC, 2000 SQ FT COVERAGE; SEE CEILING MOUNTED MOTION DETECTOR DETAIL
- 360° CEILING MOUNTED OCCUPANCY SENSOR EQUAL TO WATTSTOPPER DT-355 (LINE VOLTAGE); DUAL TECHNOLOGY INFRARED AND ULTRASONIC, 1000 SQ FT COVERAGE; SEE CEILING MOUNTED MOTION DETECTOR DETAIL
- POWER PACK RELAY EQUAL TO WATTSTOPPER BZ-50 POWER PACK; SEE CEILING MOUNTED MOTION DETECTOR DEVICE TO BE MOUNTED ABOVE CEILING. (UNIVERSAL 100-277V)...20 AMP MAX. SWITCHING CAPABILITY CAPABILITY

### BRANCH CIRCUITING

- RUN CONCEALED UNDER FLOOR OR IN GRADE
- RUN CONCEALED IN CEILING OR WALLS
- HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2#12, 1#12 GROUND 3/4" C, 2#12, 1#12 GROUND 3/4" C, 2#12, 1#12 GROUND 3/4" C, ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION
- SURFACE MOUNTED CONDUIT, RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES

### TELEPHONE & TV SYSTEM

- WALL OUTLET - 4" SQ X 2-1/8" DEEP BOX @ 18" A.F.F. TO C/L OF DEVICE U.N.O.; INSTALL 3/4" C TO ACCESSIBLE LOCATION ABOVE CEILING, INSTALL ONE (1) PULLSTRING IN EACH CONDUIT. CAT5 CABBING TO BE INSTALLED BY OWNER'S COMMUNICATIONS VENDOR. COMMUNICATIONS CONTRACTOR SHALL PROVIDE COVERPLATES, INSERTS, ETC.
- WALL OUTLET - 4" SQ X 2-1/8" DEEP BOX @ 6" ABOVE COUNTER TO C/L OF DEVICE U.N.O. INSTALL 3/4" C TO ACCESSIBLE LOCATION ABOVE CEILING, INSTALL ONE (1) PULLSTRING IN EACH CONDUIT. CAT5 CABBING TO BE INSTALLED BY OWNER'S COMMUNICATIONS VENDOR. COMMUNICATIONS CONTRACTOR SHALL PROVIDE COVERPLATES, INSERTS, ETC.
- 3/4" (60" HIGH) TELEPHONE BACKBOARD EXTERIOR GRADE PLYWOOD WITH TWO COATS OF INSULATING VARNISH, SIZE AS SHOWN
- TELEVISION CABLE WALL OUTLET - 4" SQ X 2-1/8" DEEP BOX; INSTALL 3/4" C TO ACCESSIBLE LOCATION ABOVE CEILING. INSTALL ONE (1) PULLSTRING IN EACH CONDUIT. CAT5 CABBING TO BE INSTALLED BY OWNER'S COMMUNICATIONS VENDOR. COMMUNICATIONS CONTRACTOR SHALL PROVIDE COVERPLATES, INSERTS, ETC...MOUNT 18" A.F.F. TO C/L OF DEVICE U.N.O.

### WALL OUTLETS

- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE. TAMPERS RESISTANT
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE. 'H' DENOTES DEVICE TO BE MOUNTED HORIZONTALLY
- DUPLEX WEATHERIGHT/WEATHER-RESISTANT (WR) RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE WEATHERPROOF BOX FOR RECEPTACLE. DEVICE MUST COMPLY WITH NEC 406.9
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT FLUSH IN CEILING
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT ADJACENT TO TELEVISION OUTLET AT SAME HEIGHT.
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER. HORIZONTAL
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 26" AFF TO C/L FOR DRINKING FOUNTAIN, HOMERUN TO BE TERMINATED ON GFCI BREAKER PER NEC 210.8
- QUADRUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- QUADRUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE. 'H' DENOTES DEVICE TO BE MOUNTED HORIZONTALLY
- 240V RECEPTACLE - MOUNT 18" AFF UNLESS NOTED OTHERWISE, VERIFY TYPE REQUIRED WITH EQUIPMENT FURNISHED
- JUNCTION BOX WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION
- SURFACE-MOUNTED JUNCTION BOX WITH BLANK SCREW COVER (UNLESS DEVICE SHOWN TO BE INSTALLED); SIZE OF BOX TO BE DETERMINED BY DEVICE BEING INSTALLED
- WALL MOUNTED EXIT LIGHT
- WALL MOUNTED LED FIXTURE
- WALL MOUNTED EMERGENCY UNIT BATTERY PACK
- WALL MOUNTED EXIT LIGHT/BATTERY PACK COMBO FIXTURE
- SIDEWALL PHOTOCELL EQUAL TO TORK #2101 (120V)

### MISCELLANEOUS

- ABOVE FINISH FLOOR
- BELOW FINISHED GRADE
- EXISTING
- ISOLATED GROUND
- COMMUNICATION BACKBOARD
- FIRE ALARM CONTROL PANEL

THIS IS THE PROPERTY OF DONOFRO ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE IDENTIFIED HEREON. ANY OTHER USE, REUSE, REPRODUCTION, OR ALTERATION IS PROHIBITED. THIS DOCUMENT IS PREPARED BY AN ARCHITECT AND IS SUBJECT TO LEGAL ACTION.

**DONOFRO ARCHITECTS**

2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261

FOR THE: **THE CITY OF COTTONDALE**  
FRONT ST. COTTONDALE, FLORIDA

SHEET ELECTRICAL LEGEND, GENERAL NOTES, AND DETAILS

JOB NUMBER: M-2024-13  
DATE: OCT. 31, 2025  
DRAWN BY: CHD  
CHECKED BY: ALD

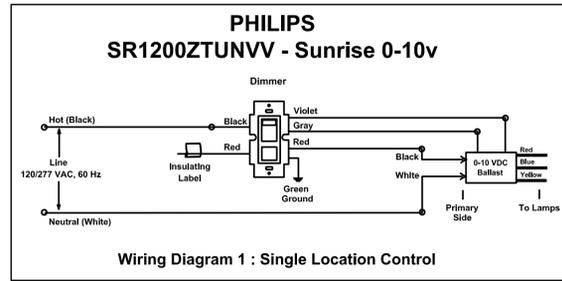
SHEET No.

**E-0.1**

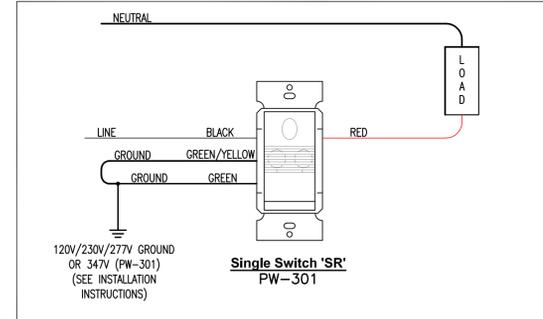


EQUALS TO BE SUBMITTED TO ARCHITECT/ENGINEER 10 DAYS PRIOR TO SUBMITTING BID FOR APPROVAL

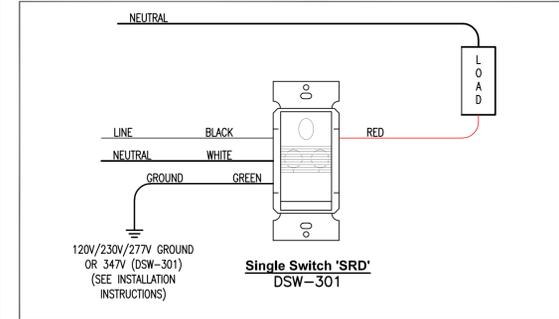
MARK	MANUFACTURER AND CATALOG No.	LAMPS		MOUNTING	REMARKS
		No.	TYPE		
LFPA	H.E. WILLIAMS #BP-22-LS(3100L)/8CS(3500K)-DIM-UNV	29W	3500K LED	CEILING LAY-IN	2'X2' LED FLAT PANEL LAY-IN, STD 0-10V DIMMING, UNV VOLT
LFPB	H.E. WILLIAMS #BP-22-LS(3500L)/8CS(3500K)-DIM-UNV	29W	3500K LED	CEILING LAY-IN	2'X2' LED FLAT PANEL LAY-IN, STD 0-10V DIMMING, UNV VOLT
LFPC	H.E. WILLIAMS #BP-22-LS(4200L)/8CS(3500K)-DIM-UNV	40W	3500K LED	CEILING LAY-IN	2'X2' LED FLAT PANEL LAY-IN, STD 0-10V DIMMING, UNV VOLT
LDO	H.E. WILLIAMS #6DR-TL-L20-840-DIM-UNV-OW-OF-WH-AD-N-F1-WET/CC	19W	3500K LED	CEILING RECESSED	6" RECESSED DOWNLIGHT, STD 0-10V DIMMING, WET LOCATION LISTED, 120V
LD04	H.E. WILLIAMS #4DR-TL-L20-840-DIM-UNV-OW-OF-WH-AD-N-F1-WET/CC	20W	3500K LED	CEILING RECESSED	4" RECESSED DOWNLIGHT, STD 0-10V DIMMING, WET LOCATION LISTED, 120V
LSS	H.E. WILLIAMS #75-8-L60/835-WC-75-VBY(HANGERS)-DRV-UNV	36W	3500K LED	CABLE MOUNT	8" HIGH OUTPUT LED STRIP, 3500K, UNV VOLT, W/ WIRE GUARD, FURN W/ Y-HANGARS FOR SUSPENSION, FLD-CUT FOR DESIRED HEIGHT
SH	H.E. WILLIAMS #4DR-TL-L20-840-DIM-UNV-OW-OF-WH-AD-N-F1-WET/CC	20W	3500K LED	CEILING RECESSED	4" RECESSED DOWNLIGHT, STD 0-10V DIMMING, WET LOCATION LISTED, 120V
SC	FC 1TG #FCW5065-UNV-4K-CR185-15L-SLE	15W	4000K LED	SURFACE MOUNTED	1 1/4" DIA ROUND ARCHITECTURAL WALL SCONCE, UNV VOLT, SILVER FINISH, 120V
WB	H.E. WILLIAMS #VWPH-L30-740-TFT-SDCL-DIM-UNV	27W	4000K LED	WALL MOUNT	EXTERIOR WALLPACK, FINISH BY ARCH, 120V
XXAV XXCA	CHLORIDE #CLXRW	1	LED	CEILING/WALL MOUNT	THERMOPLASTIC LED EXIT SIGN, SELF-DIAGNOSTICS, 120V, USE PUNCH-OUTS TO SHOW DIRECTIONAL ARROWS AS DENOTED ON DRAWING(S), AC ONLY



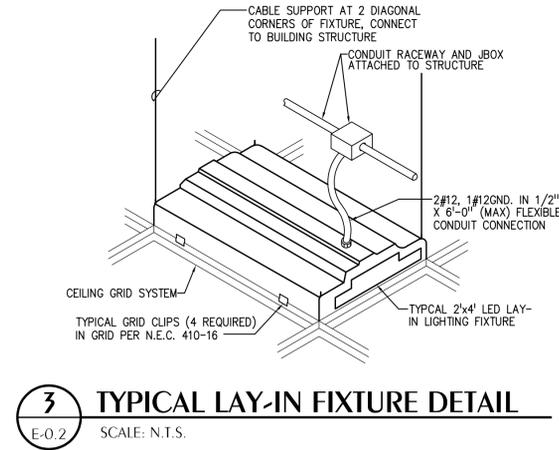
**4** TYPICAL DIMMER SWITCH DETAIL  
E-0.2 SCALE: N.T.S.



**1** TYPICAL 'SR' SWITCH DETAIL  
E-0.2 SCALE: N.T.S.



**2** TYPICAL 'SRD' SWITCH DETAIL  
E-0.2 SCALE: N.T.S.



**3** TYPICAL LAY-IN FIXTURE DETAIL  
E-0.2 SCALE: N.T.S.

**WATFORD ENGINEERING**  
Florida CA Number: 27825  
Anthony L Davis, PE  
Florida License Number: 57419  
850.535.3447  
Project Number: 2025-018  
4452 Clinton Street Marianna, Florida 32446  
2449 Moores Mill Road Auburn, AL 36830

**100% COMPLETE**  
**REVIEW DOCUMENTS**  
DONOFRO ARCHITECTS  
**NOT FOR CONSTRUCTION**  
OCTOBER 31, 2025

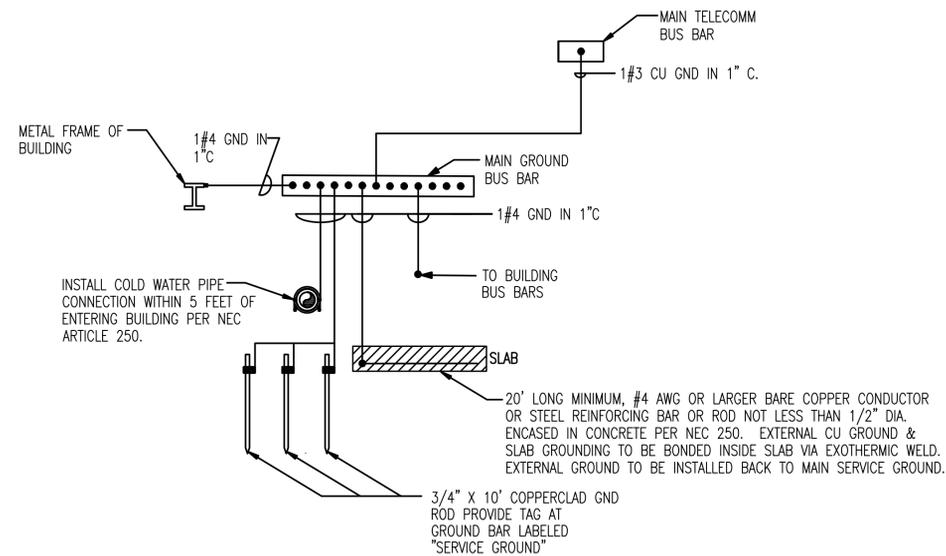
THIS DRAWING & SECTION SHOWN IS THE PROPERTY OF DONOFRO ARCHITECTS. NO PART OF THIS DRAWING OR SECTION IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF DONOFRO ARCHITECTS. © 2025 DONOFRO ARCHITECTS

**DONOFRO ARCHITECTS**  
2910 CALEDONIA ST.  
MARIANNA, FL 32446  
OFFICE: (850) 482-5261  
P.O. BOX 861  
MARIANNA, FL 32447  
FAX: (850) 482-8609

SHEET LIGHTING FIXTURE SCHEDULE AND DETAILS  
NEW POLICE STATION  
FOR THE  
**THE CITY OF COTTONDALE**  
FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
DATE: OCT. 31, 2025  
DRAWN BY: CRD  
CHECKED BY: ALD

SHEET No.  
**E-0.2**

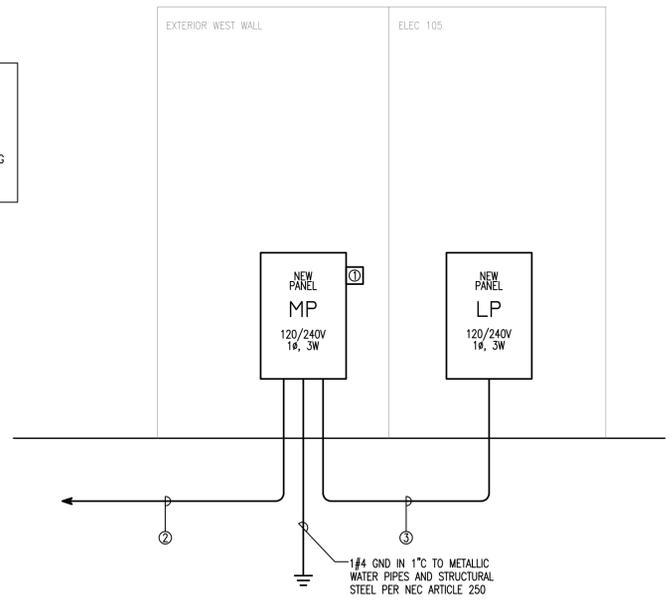


**2** GROUNDING SYSTEM RISER DIAGRAM  
E-0.3 SCALE: N.T.S.

- KEYNOTES:
- ① SURGE SUPPRESSOR
  - ② 3#4/0 CU, 1#6 GND IN 2-1/2" C BY OTHERS. EC TO STUB DOWN TO ABOVE-GRADE 2-1/2" C FOR INSTALLATION OF FEEDER/CONDUIT FROM ATS INSTALLED ON SEPARATE CONTRACT. EC TO CONNECT FEEDER TO PANEL ONCE INSTALLED.
  - ③ 3#5 CU, 1#6GND CU IN 1-1/4" C

-PROVIDED APPROVAL FROM LOCAL AHJ AND UTILITY, ALUMINUM CONDUCTOR MAY BE USED FOR FEEDERS AND SERVICE-ENTRANCE CABLING. ALUMINUM CONDUCTOR MUST HAVE THE SAME OR GREATER AMPACITY OF THE SPECIFIED COPPER CONDUCTOR.

-PRIOR TO CONSTRUCTION, EC TO FIELD-COORDINATE WITH GC & TELE/DATA UTILITY THE REQUIRED CONDUITS & POINTS-OF-TERMINATION FOR TELE/DATA SERVICE. FOR BID, INCLUDE TWO (2) 2" C'S (W/ PULLSTRING) TO ROW. PROVIDE MIN. REFER TO "GROUNDING SYSTEM RISER" FOR REQUIRED GROUNDING AT "CBB".



**1** POWER RISER DIAGRAM  
E-0.3 SCALE: N.T.S.

120/240 VOLT 1Ø 3W  
200 AMP MAIN BREAKER

SURFACE MOUNTED  
NEMA 3R ENCLOSURE

**CIRCUIT BREAKER PANEL SCHEDULE  
PANEL 'MP'**

CKT	LOAD DESCRIPTION	BREAKER		LOAD KVA	BREAKER		LOAD DESCRIPTION	CKT	
		POLE	AMP		AMP	POLE			
1	HP-1	2	300	3.65	8.64	45	2	AHU-1	2
3	HP-2	2	200	2.50	5.57	30	2	AHU-2	4
7	MHP-1	2	250	2.11	3.00	20	2	EW-1	6
11	SPNCE	1	--	0.52	20	1	1	LIS-EXTERIOR	8
15				0.20	20	1	1	CBB	10
17				0.20	20	1	1	CBB	12
19				--	20	1	1	SPARE	14
21									16
23									18
25									20
27	PANEL LP	2	100	12.25	--	30	2	SURGE SUPPRESSOR	22
29									24
									26
									28
									30

TOTAL CONNECTED LOAD: 38.44 KVA  
MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

- ① HACR RATED BREAKER; VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED
- ② FURNISH BREAKER WITH HANDLE 'LOCK-ON' CAPABILITIES
- ③ FURNISH BREAKER W/ HANDLE 'LOCK-OFF'

120/240 VOLT 1Ø 3W  
125 AMP MAIN LUG ONLY

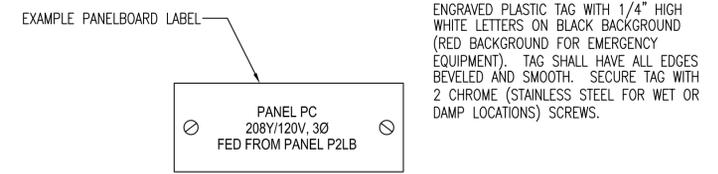
SURFACE MOUNTED  
NEMA 1 ENCLOSURE

**CIRCUIT BREAKER PANEL SCHEDULE  
PANEL 'LP'**

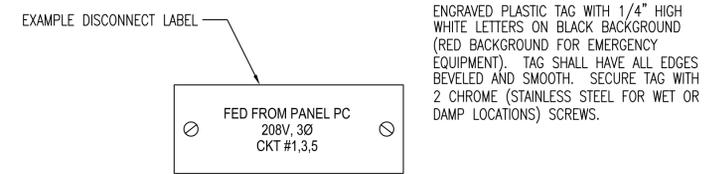
CKT	LOAD DESCRIPTION	BREAKER		LOAD KVA	BREAKER		LOAD DESCRIPTION	CKT	
		POLE	AMP		AMP	POLE			
1	REC-RECEPTION101	1	20	0.90	1.08	20	1	CONF115	2
3	REC-OFFICE102	1	20	0.72	0.39	20	1	REFRIGERATOR	4
5	REC-EVIDENCE103/CORR117	1	20	0.72	0.30	20	1	CP-1	6
7	REC-INTERVIEW104/TL1104A	1	20	1.26	1.11	20	1	LIS-INTERIOR	8
9	REC-ELECT05/MECH106	1	20	0.72	0.10	20	1	FM-200 FIRE SUPPRESSION CONTROLLER	10
11	REC-BREAKROOM107	1	20	0.54	0.10	20	1	FIRE ALARM CONTROL PANEL	12
13	REC-BREAKROOM107	1	20	0.18	0.75	20	1	EF-5 AND DAMPER	14
15	REC-BREAKROOM107	1	20	0.18	--	20	1	SPARE	16
17	REC-TL1108	1	20	0.18					18
19	REC-DATA109	1	20	0.56					20
21	REC-OFFICE111	1	20	0.72					22
23	REC-OFFICE112	1	20	0.72					24
25	REC-SIO.110/CORR.116	1	20	0.72					26
27	COPIER (CORR.116)	1	20	0.90					28
29	SPARE	1	20	--					30

TOTAL CONNECTED LOAD: 12.25 KVA  
MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

- ① HACR RATED BREAKER; VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED
- ② FURNISH CFCI BREAKER
- ③ FURNISH BREAKER W/ HANDLE 'LOCK-ON'



**3** TYPICAL PANELBOARD LABELING DETAIL  
E-0.3 SCALE: N.T.S.



**4** TYPICAL PANELBOARD LABELING DETAIL  
E-0.3 SCALE: N.T.S.



**100% COMPLETE**  
**REVIEW DOCUMENTS**  
DONOFRO ARCHITECTS  
**NOT FOR CONSTRUCTION**  
OCTOBER 31, 2025

THIS DRAWING & SPECIFICATIONS ARE THE PROPERTY OF DONOFRO ARCHITECTS. NO PART OF THIS DRAWING OR SPECIFICATIONS IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF DONOFRO ARCHITECTS. SUBJECT TO LEGAL ACTION.

**DONOFRO ARCHITECTS**  
P.O. BOX 861  
MARIANNA, FL 32447  
OFFICE: (850) 482-5261  
FAX: (850) 482-8609

SHEET POWER RISER DIAGRAM, PANEL SCHEDULES, TITLE AND DETAILS  
FOR THE  
**THE CITY OF COTTONDALE**  
FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
DATE: OCT. 31, 2025  
DRAWN BY: CRD  
CHECKED BY: ALD

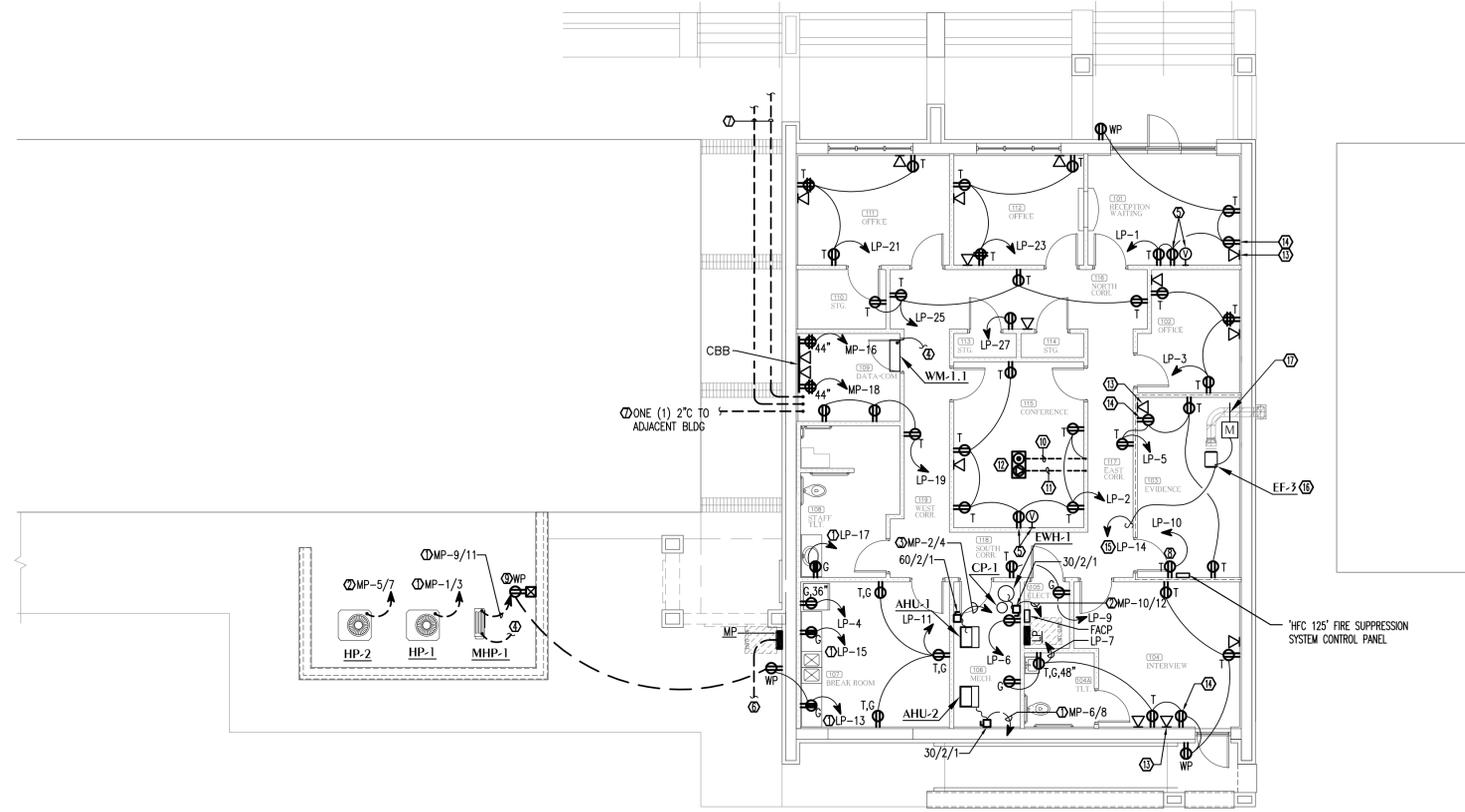
SHEET No.  
**E-0.3**

GENERAL NOTE(S)

- EC TO FURNISH AND INSTALL ALL JUNCTION BOXES AND CONCEALED CONDUIT RUNS REQUIRED FOR COMMUNICATIONS AND SECURITY SYSTEMS AS WELL AS ALL WIRING AND ELECTRICAL CONNECTIONS FOR ANY COMMUNICATIONS AND SECURITY SYSTEMS THAT REQUIRE 120 VOLT POWER. PRIOR TO ROUGH-IN, EC TO COORDINATE WITH OWNER AND GC FOR EXACT LOCATION, HEIGHT, AND SIZES REQUIRED FOR ALL JUNCTION BOXES AND CONDUIT.
- PRIOR TO ROUGH-IN, EC TO FIELD-COORDINATE WITH GC THE ROUTING OF RACEWAYS TO REDUCE THE VISIBILITY FROM BELOW. CONCEAL ABOVE STRUCTURE AND/OR BELOW WHERE POSSIBLE TO REDUCE VISIBILITY AND IMPROVE AESTHETIC APPEAL. CIRCUITRY BELOW IS DIAGRAMMATIC TO CONCEAL RACEWAYS, EC MAY RE-ROUTE CIRCUITS AS REQUIRED.
- EC IS RESPONSIBLE FOR JUNCTION BOXES AND CONDUIT WITH PULLSTRING TO ACCESSIBLE LOCATION ABOVE CEILING ONLY FOR DATA DROP LOCATIONS. CAT5 CABLING TO BE INSTALLED BY OWNER'S COMMUNICATIONS VENDOR. PRIOR TO ALL ROUGH-INS, COORDINATE WITH IT REPRESENTATIVE/EQUIPMENT SUPPLIER FOR ALL REQUIRED LOCATIONS AND HEIGHTS FOR DATA DROP JUNCTION BOXES.

KEYNOTES

- CIRCUIT TO BE 2#10, 1#10GND IN 3/4" C.
- CIRCUIT TO BE 2#12, 1#12GND IN 3/4" C.
- CIRCUIT TO BE 2#8, 1#10GND IN 3/4" C.
- INDOOR UNIT TO BE POWERED BY OUTDOOR UNIT. EC TO INSTALL 2#12, 1#12GND IN 3/4" C BETWEEN INDOOR AND OUTDOOR UNIT.
- PRIOR TO ROUGH-IN, EC TO COORDINATE WITH GC/OWNER FOR EXACT HEIGHT AND LOCATION OF RECEPTACLE AND DATA DROP FOR WALL-MOUNTED TV.
- EC TO STUB OUT BELOW PANEL "MP" ONE(1) 2-1/2" C FOR MAIN BUILDING FEEDER, TO BE INSTALLED UNDER SEPARATE CONTRACT. EC TO MAKE FINAL CONNECTION ONCE UNDERGROUND CONDUCTORS ARE IN PLACE. SEE GENERATOR CONTRACT CONSTRUCTION DOCUMENTS FOR EXACT CONDUIT ROUTING.
- EC TO FURNISH/INSTALL TWO(2) 2" C B.F.C FROM STUB UP IN DATA COM 109 TO ROW FOR TELE/DATA CABLING. COORDINATE WITH GC/UTILITY FOR EXACT ROUTING/NUMBER & SIZE OF CONDUITS/PTS-OF-TERMINATION. IN ADDITION, FIELD-COORDINATE WITH GC/OWNER IF ADD'L CONDUIT(S) REQUIRED BETWEEN ADJACENT BUILDING PRIOR TO CONSTRUCTION. INCLUDE IN BID THE INSTALLATION ONE (1) 2" C (W/ PULLSTRING) TO ADJACENT WEST BUILDING.
- PRIOR TO ROUGH-IN, EC TO FIELD-COORDINATE THE EXACT LOCATION/HEIGHT OF DEVICE REQUIRED FOR "HFC 125" FIRE SUPPRESSION CONTROL PANEL.
- TO COMPLY WITH NEC, INSTALL GFCI RECEPTACLE IN WEATHERPROOF ENCLOSURE FOR SERVICING/MAINTENANCE OF HVAC EQUIPMENT.
- EC TO FURNISH/INSTALL 2#12, 1#12 GND IN 1" C B.F.F. ROUTE HOMERUN UP THROUGH WALL AND CONTINUE TO DEVICE INDICATED.
- EC TO FURNISH/INSTALL 1" C B.F.F., WITH PULLSTRING, FROM FLOOR BOX, UP THROUGH WALL TO ACCESSIBLE LOCATION ABOVE CEILING.
- EC TO FURNISH/INSTALL TWO-GANG FLOOR BOX WITH ONE(1) DUPLEX RECEPTACLE AND ONE (1) DATA RECEPTACLE. FLOOR BOX TO BE FURNISHED WITH A BRASS COVER-PLATE AND ALL ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
- PRIOR TO ROUGH-IN, EC TO FIELD-COORDINATE WITH GC/OWNER FOR EXACT MOUNTING HEIGHT/LOCATION OF DATA DROP FOR SECURITY CAMERA.
- PRIOR TO ROUGH-IN, EC TO FIELD-COORDINATE WITH GC/OWNER FOR EXACT MOUNTING HEIGHT/LOCATION OF RECEPTACLE FOR SECURITY CAMERA.
- PRIOR TO ROUGH-IN, EC TO FIELD-COORDINATE WITH GC/OWNER FOR EXACT MOUNTING HEIGHT/LOCATION OF EMERGENCY EXHAUST FAN SWITCH. PER MECHANICAL DESIGN, SWITCH TO BE LABELED, BY OTHERS, AS "EMERGENCY EXHAUST FAN".
- PER MECHANICAL DESIGN, EXHAUST FAN TO BE FURNISHED BY OTHERS WITH INTEGRAL DISCONNECT AND BE CONTROLLED VIA WALL-MOUNTED, MOTOR-RATED TOGGLE SWITCH ON EXTERIOR WALL OF EVIDENCE ROOM TO VENT ROOM IN THE EVENT OF CHEMICAL FIRE SUPPRESSION DISCHARGE. EC TO INTERLOCK FAN WITH 120V DAMPER AS SHOWN.
- 120V POWER OPEN/SPRING CLOSE MOTORIZED DAMPER, FURNISHED AND INSTALLED BY OTHERS. EC TO CONNECT TO EF-3 CIRCUIT SO THAT DAMPER WILL OPEN WHEN THE FAN IS SWITCHED ON.



**ELECTRICAL POWER PLAN**  
SCALE: 1/8" = 1'-0"

THIS DRAWING & DESIGN IS THE PROPERTY OF DONOFRO ARCHITECTS. NO PART OF THIS DRAWING OR DESIGN IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF DONOFRO ARCHITECTS. THIS DOCUMENT IS SUBJECT TO LEGAL ACTION.

**DONOFRO ARCHITECTS**  
P.O. BOX 861  
MARIANNA, FL 32447  
OFFICE: (850) 482-5261



SHEET ELECTRICAL POWER PLAN  
FOR THE  
**THE CITY OF COTTONDALE**  
FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER:  
M-2024-13  
DATE:  
OCT. 31, 2025  
DRAWN BY:  
CRD  
CHECKED BY:  
ALD

SHEET No.  
**E-1.1**

**WATFORD ENGINEERING**  
Florida CA Number: 27825  
Anthony L. Davis, PE  
Florida License Number: 57419  
850.535.3447  
Project Number: 2025-018  
4452 Clinton Street Marianna, Florida 32446  
2449 Moores Mill Road Auburn, AL 36830

**100% COMPLETE**  
**REVIEW DOCUMENTS**  
DONOFRO ARCHITECTS  
**NOT FOR CONSTRUCTION**  
OCTOBER 31, 2025

THIS DRAWING & SPEC. SHOWING IS THE PROPERTY OF DONOFRO ARCHITECTS & ASSOCIATES, INC. FOR OTHER USE OF THIS DRAWING IS PROHIBITED. ANY REPRODUCTION OF THIS DRAWING IS PROHIBITED. ANY REPRODUCTION IS SUBJECT TO LEGAL ACTION.

PAUL DONOFRO ARCHITECTS

**DONOFRO ARCHITECTS**  
 P.O. BOX 861  
 MARIANNA, FL 32447  
 OFFICE: (850) 482-5261  
 2910 CALEDONIA ST.  
 MARIANNA, FL 32446  
 FAX: (850) 482-5261



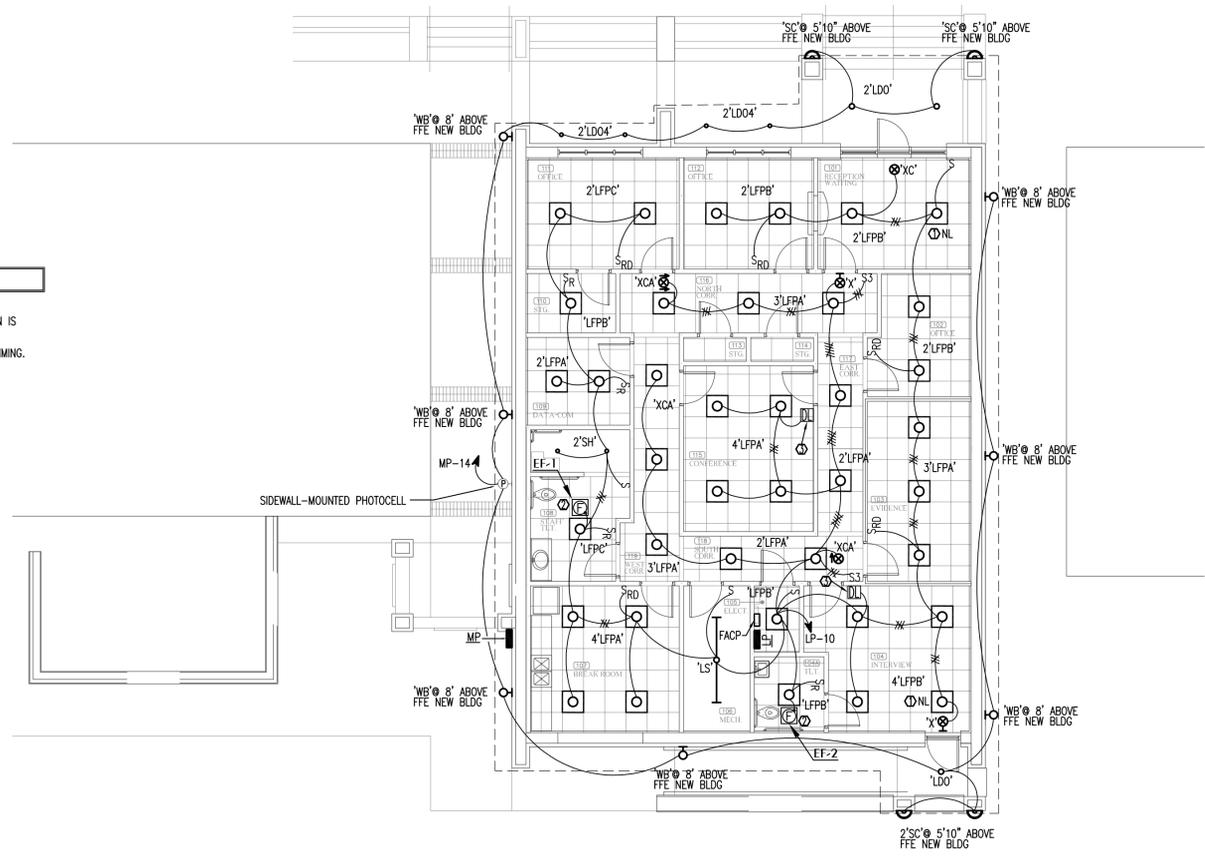
SHEET: ELECTRICAL LIGHTING PLAN  
 TITLE:  
 FOR THE: NEW POLICE STATION  
 FOR THE: THE CITY OF COTTONDALE  
 FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
 DATE: OCT. 31, 2025  
 DRAWN BY: CRD  
 CHECKED BY: ALD

SHEET No.  
**E-1.2**

**KEYNOTES**

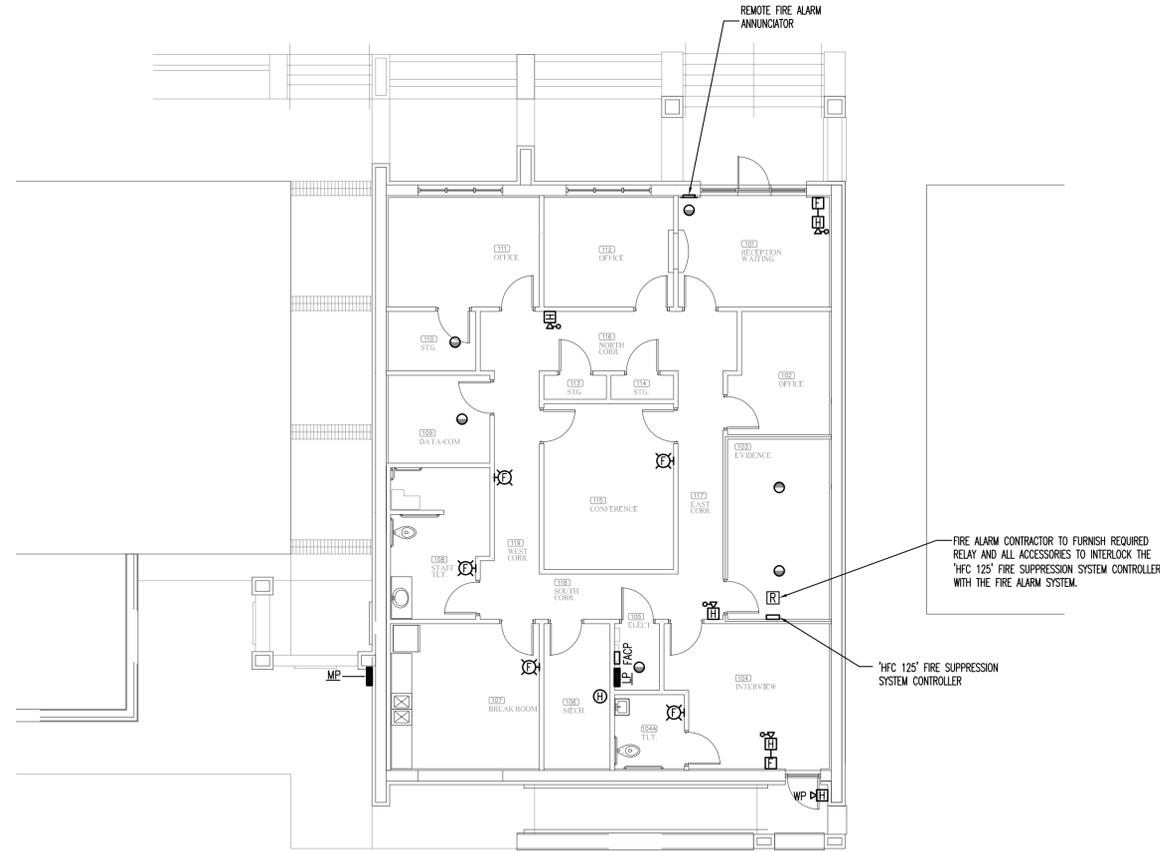
- 1 NIGHT LIGHT FIXTURE TO BE WIRED FOR 24 HOUR CONTINUOUS OPERATION.
- 2 PER MECHANICAL DESIGN, 'EF' TO BE SUPPLIED WITH INTEGRAL DISCONNECT. EC TO ENSURE FAN OPERATION IS INTERLOCKED WITH ROOM LIGHTING. SEE SHEET M-0.1.
- 3 EC TO REFER TO 'ELECTRICAL LEGEND', ON SHEET 'E-0.1', FOR REQUIRED 0-10V 2-WIRE CIRCUIT FOR DIMMING.



**ELECTRICAL LIGHTING PLAN**  
 SCALE: 1/8" = 1'-0"

**WATFORD ENGINEERING**  
 Florida CA Number: 27825  
 Anthony L. Davis, PE  
 Florida License Number: 57419  
 850.535.3447  
 Project Number: 2025-018  
 4452 Clinton Street Marianna, Florida 32446  
 2449 Moores Mill Road Auburn, AL 36830

**100% COMPLETE**  
**REVIEW DOCUMENTS**  
 DONOFRO ARCHITECTS  
**NOT FOR CONSTRUCTION**  
 OCTOBER 31, 2025



**1** FIRE ALARM PLAN  
 E-1.3 SCALE: 1/8" = 1'-0"

THIS DRAWING & SPECIFICATIONS ARE THE PROPERTY OF DONOFRO ARCHITECTS & ASSOCIATES, P.A. ANY REUSE OR REPRODUCTION OF THIS DOCUMENT IS PROHIBITED. ANY VIOLATION IS SUBJECT TO LEGAL ACTION.  
 DONOFRO ARCHITECTS & ASSOCIATES, P.A.

**DONOFRO ARCHITECTS**  
 2910 CALEDONIA ST.  
 MARIANNA, FL 32446  
 OFFICE: (850) 482-5261  
 P.O. BOX 861  
 MARIANNA, FL 32447  
 FAX: (850) 482-8609



SHEET TITLE: FIRE ALARM PLAN  
 FOR THE: NEW POLICE STATION  
 THE CITY OF COTTONDALE  
 FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
 DATE: OCT. 31, 2025  
 DRAWN BY: CRD  
 CHECKED BY: ALL

SHEET No.  
**E-1.3**

**WATFORD ENGINEERING**  
 Florida CA Number: 27825  
 Anthony L. Davis, PE  
 Florida License Number: 57419  
 850.535.3447  
 Project Number: 2025-018  
 4452 Clinton Street Marianna, Florida 32446  
 2449 Moores Mill Road Auburn, AL 36830

**100% COMPLETE**  
**REVIEW DOCUMENTS**  
 DONOFRO ARCHITECTS  
**NOT FOR CONSTRUCTION**  
 OCTOBER 31, 2025

THIS DRAWING & SECTION SHOWN IS THE PROPERTY OF DONOFRO ARCHITECTS & ASSOCIATES, INC. FOR ANY OTHER USE OF THIS DRAWING OR SECTION WITHOUT THE WRITTEN CONSENT OF DONOFRO ARCHITECTS & ASSOCIATES, INC. IS PROHIBITED AND SUBJECT TO LEGAL ACTION.

PAUL DONOFRO ARCHITECTS & ASSOCIATES, INC.

**DONOFRO ARCHITECTS**  
 2910 CALEDONIA ST.  
 MARIANNA, FL 32447  
 OFFICE: (850) 482-5261  
 P.O. BOX 861  
 MARIANNA, FL 32447  
 FAX: (850) 482-8609



SHEET TITLE: FIRE PROTECTION FLOOR PLAN  
 FOR THE: NEW POLICE STATION  
 THE CITY OF COTTONDALE  
 FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13  
 DATE: OCT. 31, 2025  
 DRAWN BY: TLC  
 CHECKED BY: KAJ

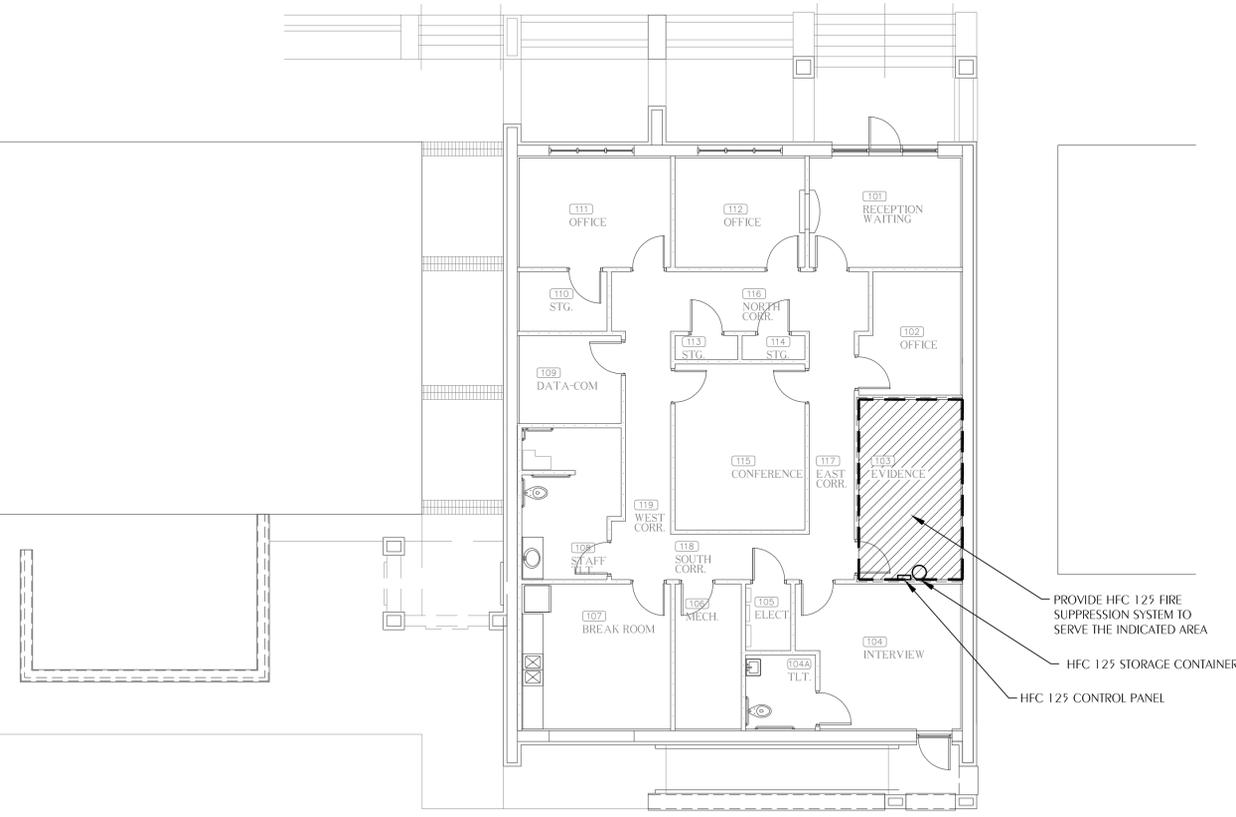
SHEET No.  
**FP-1.0**

**LEGEND**

---	FW	FIRE WATER SUPPLY (SITE)
---	PW	POTABLE WATER SUPPLY
---	WM	WATER MAIN
---	FW(E)	EXISTING FIRE WATER SUPPLY
---		FIRE SPRINKLER MAIN
⊗		FIRE RISER
⊕	FDC	FIRE DEPARTMENT CONNECTION
⊕		FIRE DEPARTMENT CONNECTION
⊕		ROOF HYDRANT

**HAZARD CLASSIFICATION**

	ORDINARY HAZARD GROUP 1
	ORDINARY HAZARD GROUP 2



**1 FIRE PROTECTION FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"

**GENERAL NOTES**

1. THIS BUILDING IS NOT SPRINKLED OR REQUIRED TO BE PER NFPA 13.
2. ROOM 103 IS PROTECTED BY CLEAN-AGENT SYSTEM.
3. DRY CHEMICAL EXTINGUISHING SYSTEMS SHALL COMPLY WITH NFPA 2001.
4. AUTOMATIC FIRE- EXTINGUISHING SYSTEMS SHALL HAVE AN AUDIBLE ALARM OR VISUAL INDICATOR, PER NFPA 2001.
5. MAINTAIN THE INTEGRITY OF ALL FIRE RATED ASSEMBLIES AND ACOUSTICAL ASSEMBLIES.
6. CONTRACTOR SHALL COORDINATE SYSTEM DESIGN WITH ALL OTHER TRADES.
7. PIPE HANGERS SHALL BE INSTALLED AS REQUIRED BY NFPA 13 FOR SUPPORTING SPRINKLER PIPING. NO OTHER PIPING OR DEVICES SHALL BE ATTACHED TO THE SPRINKLER HANGER SYSTEM UNLESS THE HANGER HAS BEEN DESIGNED TO CARRY THE ADDITIONAL LOAD.
8. THIS CONTRACT DOES NOT INCLUDE ANY MATERIAL OR DEVICE TO IMPROVE THE STRUCTURAL STRENGTH OF THE BUILDING TO ENABLE IT TO CARRY THE LOAD OF THE FIRE PROTECTION SYSTEM.
9. INSTALL SPRINKLER HEADS CENTER OF TILE IN ACOUSTICAL CEILINGS. HEAD LOCATIONS SHALL BE GUIDED BY ARCHITECTURAL ELEMENTS FOR OTHER CEILING TYPES.

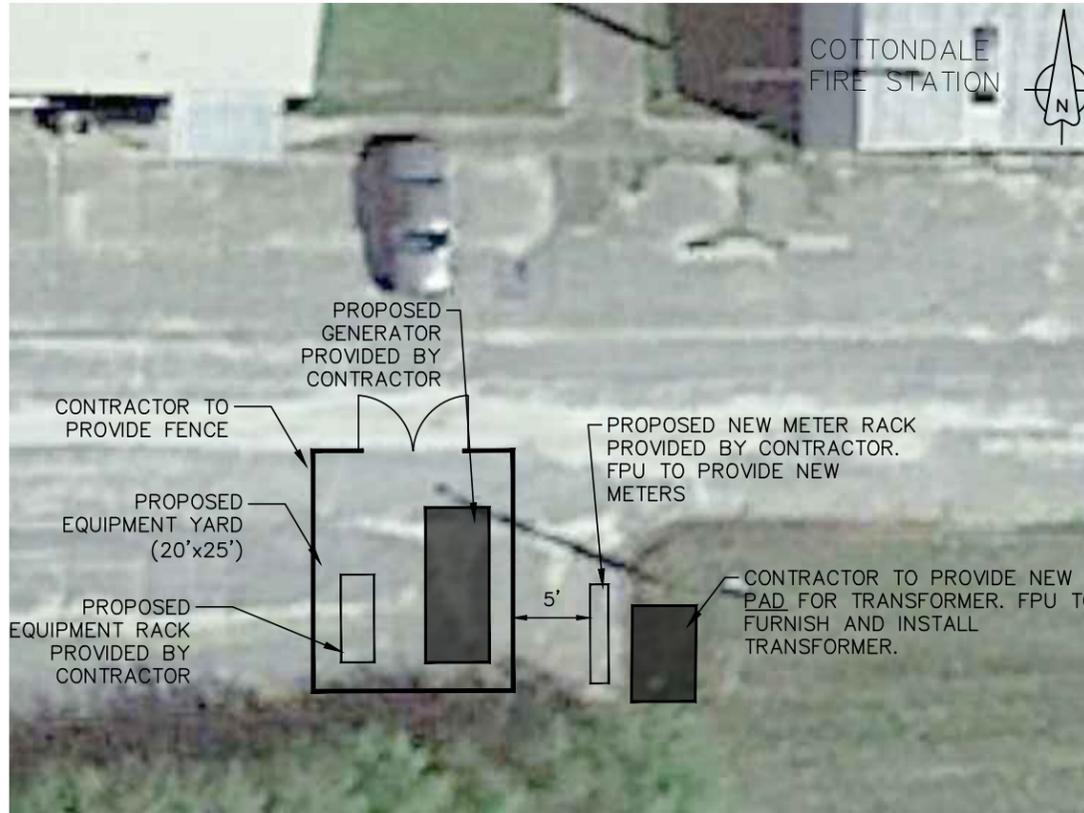
**WATFORD ENGINEERING**  
 Florida CA Number: 27825  
 Keith A. Johnson, PE  
 Florida License Number: 86457  
 850.535.3447  
 Project Number: 2025-018  
 Checked By: KAJ  
 4452 Clinton Street Marianna, Florida 32446  
 2449 Moores Mill Road Auburn, AL 36830

**100% COMPLETE**  
**REVIEW DOCUMENTS**  
 DONOFRO ARCHITECTS  
**NOT FOR CONSTRUCTION**  
 OCTOBER 31, 2025





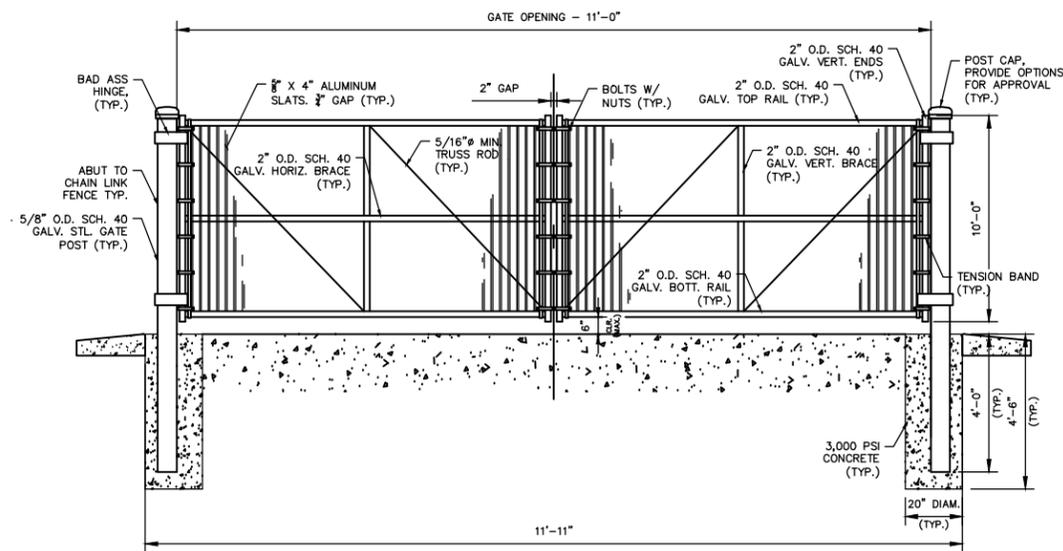
ACTUAL PAD SIZE MAY VARY, BASED ON EQUIPMENT PROVIDED



SITE AERIAL

SCALE: NTS

NOTE:  
CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND REQUIRED CLEARANCES PRIOR TO GATE FABRICATION. CONFIRM LOCKING MECHANISM WITH OWNER



GATE DETAIL

NTS

PROPOSED EQUIPMENT YARD (20'x25'x10')

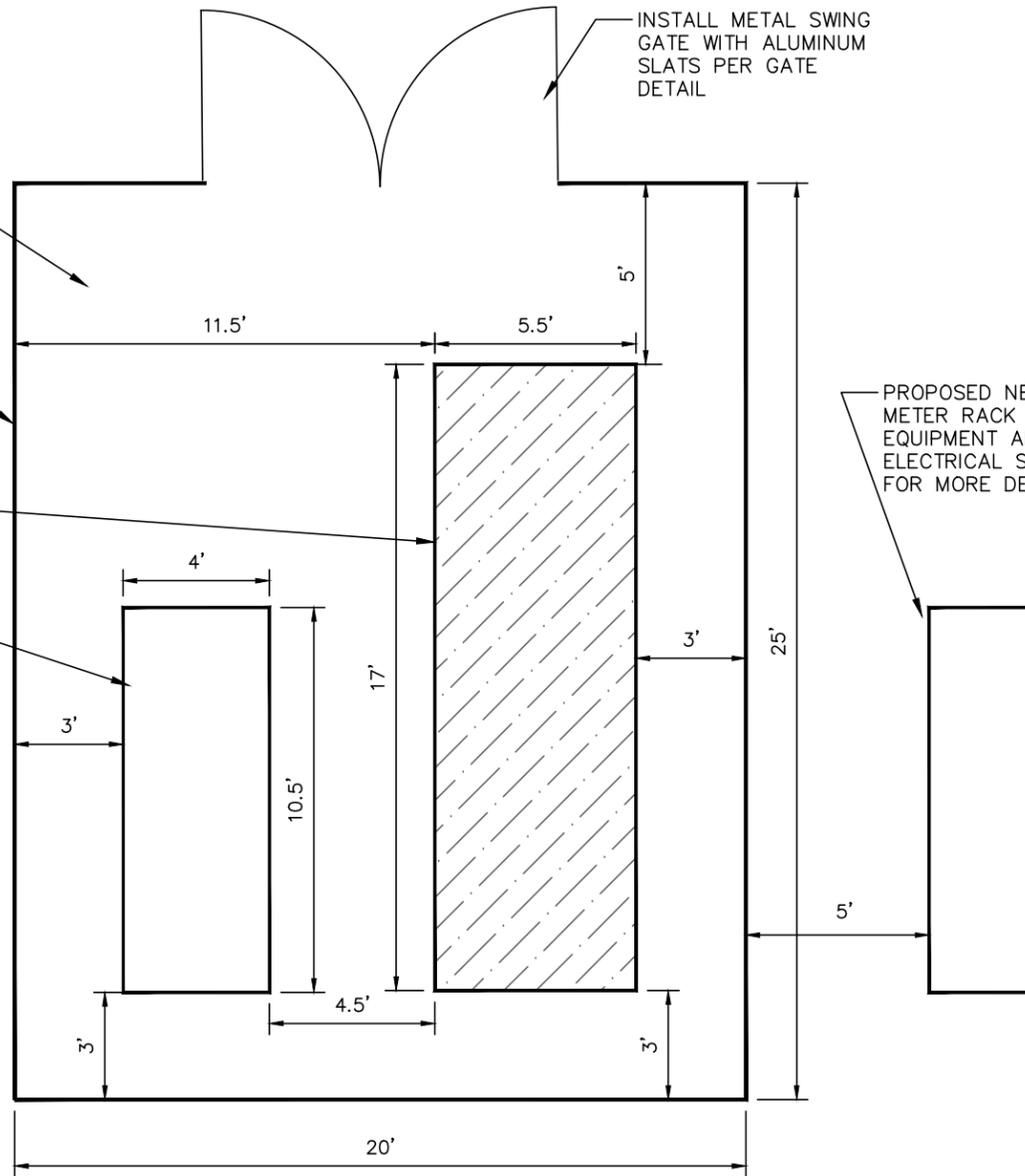
PROPOSED CHAINLINK FENCE WITH FABRIC-10 FEET TALL FENCE

PROPOSED GENERATOR PAD. SEE SHEET EG2.1 FOR PAD DETAILS

PROPOSED ELECTRICAL EQUIPMENT RACK. SEE ELECTRICAL SHEET EG1.3 FOR MORE DETAILS

INSTALL METAL SWING GATE WITH ALUMINUM SLATS PER GATE DETAIL

PROPOSED NEW ELECTRICAL METER RACK OUTSIDE EQUIPMENT AREA. SEE ELECTRICAL SHEET EG1.3 FOR MORE DETAILS.



EQUIPMENT YARD SITE PLAN

SCALE: NTS

**DHM**

MELVIN ENGINEERING  
EB-0005637 LC-0000277

MARIANNA OFFICE  
4428 Lafayette Street  
Marianna, FL 32446  
Phone: (850) 482-3045

TALLAHASSEE OFFICE  
2541-1 Barrington Circle  
Tallahassee, FL 32308  
Phone: (850) 671-7221

www.melvineng.com

PROJECT:  
Cottondale Critical Facilities  
Generators

OWNER:  
City of Cottondale

DAVID H. MELVIN, P.E.

FLORIDA REG. NO. 38734

DATE CREATED: 06/20/25

REVISIONS:

PROJECT NO: COT22LS

CAD FILE: COT22GE\_SITE\_PLAN

DRAWN BY: JOHN UDOCHI

CHECKED BY: D.H.M.

SHEET TITLE:  
EQUIPMENT AREA  
SITE PLAN & DETAILS

SHEET NO:

**G1.2**

RELEASE FOR CONSTRUCTION  
X NOT FOR CONSTRUCTION





**\*Notes:**

All edges shall be beveled

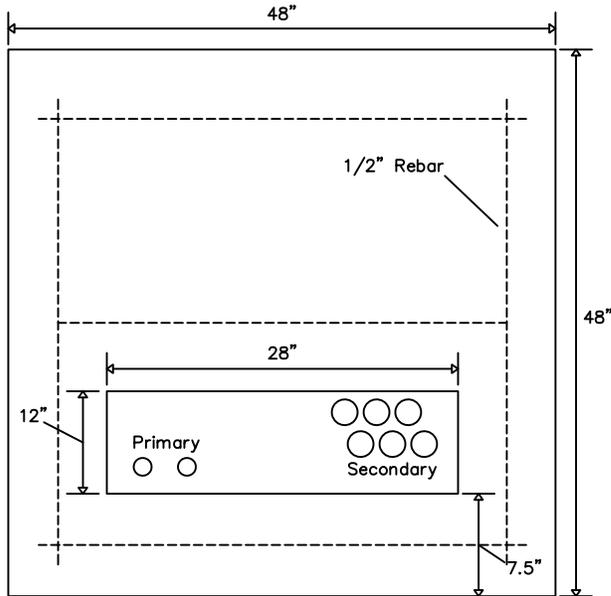
Base shall be native soil, free of debris, and compacted to within  $\pm 1.5"$  Final Grade

Elbows for future service and/or primary cable installation shall be installed prior to transformer installation.

**\*\*PAD LOCATION SUBJECT TO APPROVAL BY FPUC ENGINEERING\*\***

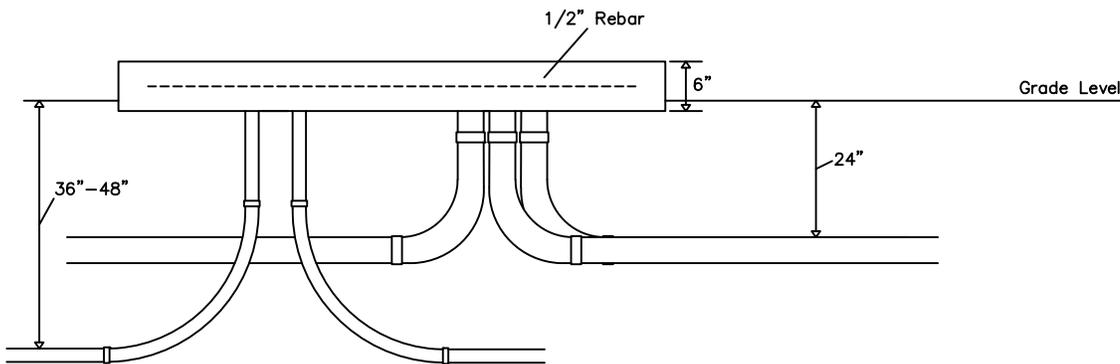
**\*\*ALL FORMS SHALL BE INSPECTED BY FPUC PRIOR TO POURING\*\***

**FPUC SPECIFICATION  
FOR TRANSFORMER  
PAD**



**\*PAD CLEARANCE NOTES:**

TRANSFORMER PAD SHALL HAVE:  
 FULL GROUND TO SKY CLEARANCE  
 2' CLEARANCE ON SIDES AND BACK  
 12' CLEARANCE ON FRONT



ITEM	QUANTITY	DESCRIPTION	STOCK #	 CONCRETE PAD FOR SINGLE PHASE TRANSFORMER FOR 25kVA TO 100kVA (NW DIVISION USE ONLY)				DWG. No. <b>G1.5</b>
	15kV							
1								
2								
3								
4								
5								
6								
7								
8								
9								
				DATE	REVISION	DATE	REVISION	
				6/15/22	SM			
NTS								

© DAVID H. MELVIN, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN PERMISSION OF DAVID H. MELVIN, INC.



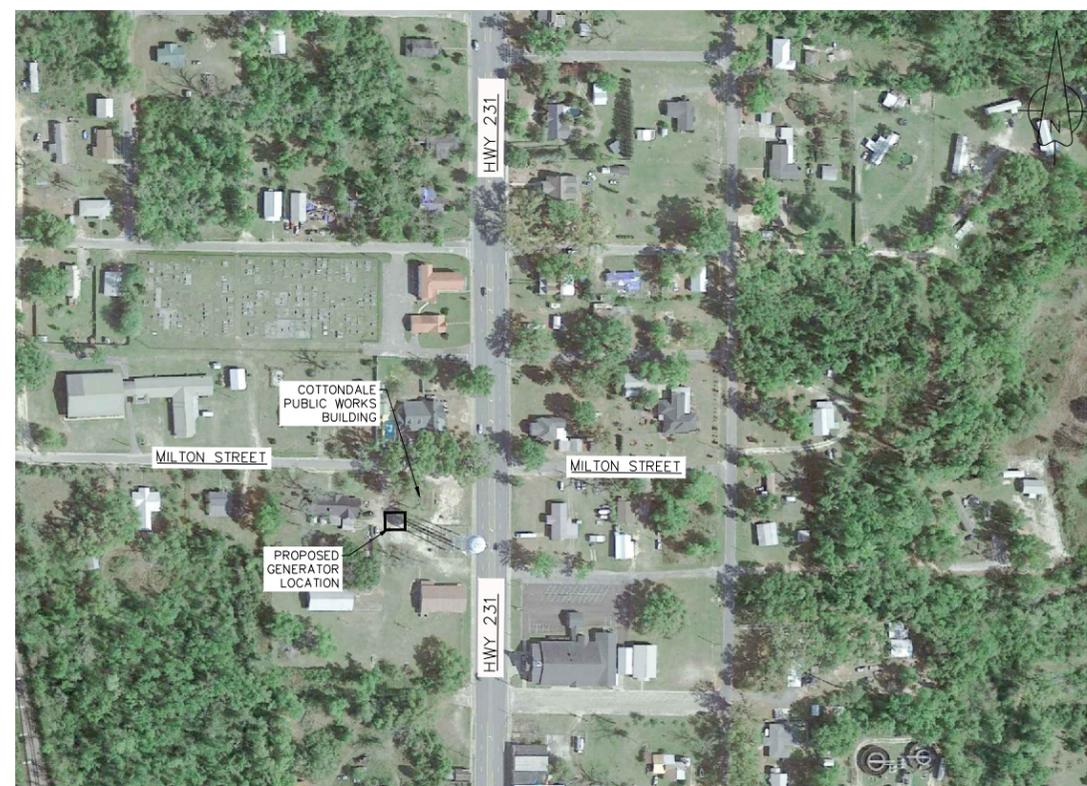
PROJECT PHOTOS

SCALE: NTS



PROJECT SITE PLAN

SCALE: NTS



PROJECT LOCATION

SCALE: NTS

**DHM**  
**MELVIN ENGINEERING**  
 EB-0005637 LC-0000277  
 MARIANNA OFFICE  
 4428 Lafayette Street  
 Marianna, FL 32446  
 Phone: (850) 482-3045  
 TALLAHASSEE OFFICE  
 2541-1 Barrington Circle  
 Tallahassee, FL 32308  
 Phone: (850) 671-7221  
 www.melvineng.com

PROJECT:  
**Cottondale Critical Facilities  
 Generators**  
 OWNER:  
**City of Cottondale**

DAVID H. MELVIN, P.E.  
 FLORIDA REG. NO. 38734

DATE CREATED: 06/20/25  
 REVISIONS:

PROJECT NO: COT22GE  
 CAD FILE: COT22GE\_SITE\_PLAN  
 DRAWN BY: JOHN UDOCHI  
 CHECKED BY: D.H.M.

SHEET TITLE:  
**COTTONDALE PUBLIC  
 WORKS GENERATOR**

SHEET NO:  
**G2**

RELEASE FOR CONSTRUCTION  
 NOT FOR CONSTRUCTION

**PROJECT NOTES (FIRE STATION & POLICE)**

1. THE SCOPE OF WORK IS TO MODIFY THE EXISTING ELECTRICAL SYSTEM AS REQUIRED TO ADD A NEW PERMANENTLY MOUNTED GENERATOR TO PROVIDE BACKUP POWER FOR THE EXISTING FIRE STATION, NEW POLICE STATION, AND EXISTING BUILDING SERVICES A AND B. THIS WILL AT A MINIMUM INCLUDE BUT NOT BE LIMITED TO THE NEW GENERATOR, NEW ATS SWITCHES, NEW SERVICE DISCONNECTS, LOCAL DISCONNECTS, PANELS, EQUIPMENT RACKS, CONCRETE WORK, ETC. THE SCOPE INCLUDES ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK. THIS COULD INCLUDE BUT IS NOT LIMITED TO MOUNTING RACKS, CONDUIT AND WIRING, UNDERGROUND LOCATES AND BORES, CONCRETE DEMO AND REPLACEMENT, ETC. DEMO EXISTING GENERATOR AND DELIVER TO OWNER.
2. WORK SHALL BE SCHEDULED & PERFORMED TO MINIMIZE ELECTRICAL OUTAGE TIME AS MUCH AS POSSIBLE. COORDINATE WITH POWER COMPANY & OWNER FOR OUTAGE WORK AND MAKE TIE INS ON THE WEEKEND TO PROVIDE AS MINIMAL POWER DISRUPTION AS POSSIBLE.
3. BIDDERS ARE ENCOURAGED TO VISIT THE SITE TO INSURE ALL EXISTING CONDITIONS AND REQUIREMENTS ARE COMPLETELY UNDERSTOOD.
4. FIELD LOCATE NEW EQUIPMENT AS NOTED OR REQUIRED. FURNISH AND INSTALL EQUIPMENT RACKS AS INDICATED AND REQUIRED. BASE RACKS AND LOCATIONS ON ACTUAL EQUIPMENT DIMENSIONS. TAKE CARE TO ENSURE REQUIRED NEC CLEAR WORKING SPACES ARE AVAILABLE. COORDINATE WITH GENERATOR SUPPLIER FOR REQUIRED WORKING SPACE AROUND GENERATOR.
5. ALL WORK SHALL COMPLY WITH 2020 NEC, 8TH EDITION FLORIDA BUILDING CODE, AND ALL APPLICABLE LOCAL CODES.
6. ALL ABOVE GRADE CONDUIT SHALL BE ALUMINUM RIGID (SEALTITE FLEX SHALL BE ACCEPTABLE) UNLESS OTHERWISE NOTED AND/OR REQUIRED BY THE 2020 NEC CODE FOR THE AREA & CONDITIONS OF INSTALLATION. ALL BELOW GRADE CONDUIT SHALL BE SCHEDULE 80 RIGID PVC. ALL CONDUCTORS SHALL BE COPPER WITH INSULATION SUITABLE FOR WET & DRY LOCATIONS (THWN-2). CONDUCTORS SHALL BE SIZED TO ENSURE VOLTAGE DROP DOES NOT EXCEED 2%.
7. LABEL ALL ELECTRICAL EQUIPMENT AS REQUIRED BY THE 2020 NEC CODE. LOCATIONS FROM WHICH CIRCUITS ORIGINATE AND TERMINATE SHALL BE MARKED ON ALL EQUIPMENT.
8. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING PROJECT AND BRING ANY DISCREPANCIES UP TO THE ENGINEER FOR CLARIFICATION.

EQUIPMENT SCHEDULE (FIRE STATION & POLICE)	
①	<p>GENERATOR: 120/240V, 1-PHASE, 175 KW DIESEL GENERATOR IN SOUND ATTENUATED ALUMINUM WEATHERPROOF ENCLOSURE THAT MEETS TAS 201 LEVEL E AND RATED FOR 180MPH WIND PER FEMA GRANT REQUIREMENTS AND THE LATEST EDITION OF THE FLORIDA BUILDING CODE. PROVIDE WITH (1) 250AF/225AT &amp; (1) 600AF/600AT (BOTH ELECTRONIC TRIP WITH FULLY ADJUSTABLE LI TRIP UNITS), 2 POLE, OUTPUT CIRCUIT BREAKERS TO COORDINATE WITH WIRING &amp; ATS SUPPLIER "SPECIFIC BREAKER" RATINGS. PROVIDE WITH 120VAC BATTERY CHARGER, 120VAC ALTERNATOR ANTI CONDENSATION HEATER, AND 240VAC 1PH BLOCK HEATER. FURNISH E-STOP. FURNISH FLORIDA DEP APPROVED DOUBLE WALLED SUB-BASE FUEL TANK WITH FUEL CAPACITY FOR 48HRS AT GENSET RATED FULL LOAD.</p> <p>SIZING IS BASED ON THE EXISTING AND NEW SERVICE SIZES AND CONSIDERS FLORIDA PUBLIC UTILITIES COMPANY SERVICE TRANSFORMER SIZING CALCULATIONS WITH SOME ALLOWANCE FOR FUTURE LOADS.</p> <p>PROVIDE 2 DAYS OF STARTUP AND TESTING IN THE BID. PROVIDE 2 YEAR WARRANTY.</p>
②	<p>ATS-AB: 240V, 400 AMP, 35KAIC WITHSTAND RATING, 3-POLE WITH OVERLAPPING FULLY RATED SWITCHED NEUTRAL, NEMA 3R ENCLOSURE. ATS SHALL HAVE INTEGRAL SURGE PROTECTIVE DEVICE. ASCO 300 SERIES OR EQUAL. INCLUDE 1 DAY OF STARTUP, PROGRAMMING, AND TESTING IN THE BID. IF SPECIFIC BREAKER RATINGS ARE UTILIZED, THE ATS SUPPLIER AND CONTRACTOR ARE RESPONSIBLE FOR ENSURING THE "SPECIFIC BREAKER" WITHSTAND RATINGS ARE VALID.</p>
③	<p>ATS-POLICE: 240V, 250 AMP, 35KAIC, 3-POLE WITH OVERLAPPING FULLY RATED SWITCHED NEUTRAL, NEMA 3R ENCLOSURE. ATS SHALL HAVE INTEGRAL SURGE PROTECTIVE DEVICE. ASCO 300 SERIES OR EQUAL. INCLUDE 1 DAY OF STARTUP, PROGRAMMING, AND TESTING IN THE BID. IF SPECIFIC BREAKER RATINGS ARE UTILIZED, THE ATS SUPPLIER AND CONTRACTOR ARE RESPONSIBLE FOR ENSURING THE "SPECIFIC BREAKER" WITHSTAND RATINGS ARE VALID.</p>
④	<p>PANELBOARD "PP-AB": 400A, 120/240, 1PH 3W, 35KAIC MINIMUM, 400 MAIN BREAKER (FULLY RATED 35KAIC MAIN LUG IS ACCEPTABLE AS AN ALTERNATE), PANELBOARD, NEMA 3R ENCLOSURE WITH HINGED LOCKABLE COVER, BOLT IN BREAKERS, COPPER BUSSING, AND INTERNAL 240KA SURGE PROTECTION DEVICE. FURNISH WITH BRANCH BREAKERS AS SHOWN (ADJUST BLOCK &amp; ALTERNATOR HEATER AND BATTERY CHARGER BREAKER SIZES AS REQUIRED PER ACTUAL SUBMITTED GENERATOR). SCHNEIDER ELECTRIC I-LINE OR EQUAL.</p>
⑤	<p>PANELBOARD "PP-GEN": 600A, 120/240, 1PH 3W, 22KAIC MINIMUM, 600 MAIN LUGS, PANELBOARD, NEMA 3R ENCLOSURE WITH HINGED LOCKABLE COVER, BOLT IN BREAKERS, COPPER BUSSING, AND INTERNAL 240KA SURGE PROTECTION DEVICE. FURNISH WITH BRANCH BREAKERS AS SHOWN. SCHNEIDER ELECTRIC I-LINE OR EQUAL.</p>
⑥	<p>SERVICE DISCONNECT #1 BUILDING AB: ENCLOSED CIRCUIT BREAKER 400 AMP, 120/240V, 2-POLE, 35KAIC MINIMUM, S.E. RATED, INCLUDE WITH SOLID NEUTRAL &amp; GROUND, NEMA 3R ENCLOSURE. SHALL BE LOCKABLE. SCHNEIDER ELECTRIC LG OR EQUAL.</p>
⑦	<p>SERVICE DISCONNECT #2 (POLICE STATION): ENCLOSED CIRCUIT BREAKER 250 AMP (SET AT 225A TRIP), 120/240V, 2-POLE, 35KAIC MINIMUM, S.E. RATED, ELECTRONIC TRIP WITH ADJUSTABLE LONG TIME PICKUP, DELAY, AND INSTANTANEOUS SETTINGS. INCLUDE WITH SOLID NEUTRAL &amp; GROUND, NEMA 3R ENCLOSURE. SHALL BE LOCKABLE. SCHNEIDER ELECTRIC JG OR EQUAL.</p>
⑧	<p>SERVICE DISCONNECT FIRE STATION, FIRE STATION GENERATOR DISCONNECT: ENCLOSED CIRCUIT BREAKER 200 AMP, 120/240V, 2-POLE, 22KAIC MINIMUM, S.E. RATED, INCLUDE WITH SOLID NEUTRAL &amp; GROUND, NEMA 3R ENCLOSURE. SHALL BE LOCKABLE. SCHNEIDER ELECTRIC JD OR EQUAL.</p>
⑨	<p>ECB-A, ECB-B: ENCLOSED CIRCUIT BREAKER 200 AMP, 120/240V, 2-POLE, 35KAIC MINIMUM, INCLUDE WITH INSULATED SOLID NEUTRAL &amp; GROUND (DON'T BOND NEUTRAL AND GROUND), NEMA 3R ENCLOSURE. SHALL BE LOCKABLE. SCHNEIDER ELECTRIC JG OR EQUAL.</p>
⑩	<p>ATS-FIRE: 240V, 200 AMP, 22KAIC WITHSTAND RATING, 3-POLE WITH OVERLAPPING FULLY RATED SWITCHED NEUTRAL, NEMA 3R ENCLOSURE. ATS SHALL HAVE INTEGRAL SURGE PROTECTIVE DEVICE. ASCO 300 SERIES OR EQUAL. INCLUDE 1 DAY OF STARTUP, PROGRAMMING, AND TESTING IN THE BID. IF SPECIFIC BREAKER RATINGS ARE UTILIZED, THE ATS SUPPLIER AND CONTRACTOR ARE RESPONSIBLE FOR ENSURING THE "SPECIFIC BREAKER" WITHSTAND RATINGS ARE VALID.</p>



**MELVIN ENGINEERING**

EB-0005637 LC-0000277

MARIANNA OFFICE  
4428 Lafayette Street  
Marianna, FL 32446  
Phone: (850) 482-3045

TALLAHASSEE OFFICE  
2541-1 Barrington Circle  
Tallahassee, FL 32308  
Phone: (850) 671-7221

www.melvineng.com

PROJECT:  
Cottondale Critical Facilities  
Generators

OWNER:  
City of Cottondale

CHAD HALL, P.E.

FLORIDA REG. NO. 65846

DATE CREATED: 07/14/25

REVISIONS:


PROJECT NO: COT22GE

CAD FILE: COT22GE

DRAWN BY: C.H.

CHECKED BY: C.H.

SHEET TITLE:

POLICE AND FIRE  
GENERATOR EQUIPMENT  
SCHEDULE AND NOTES

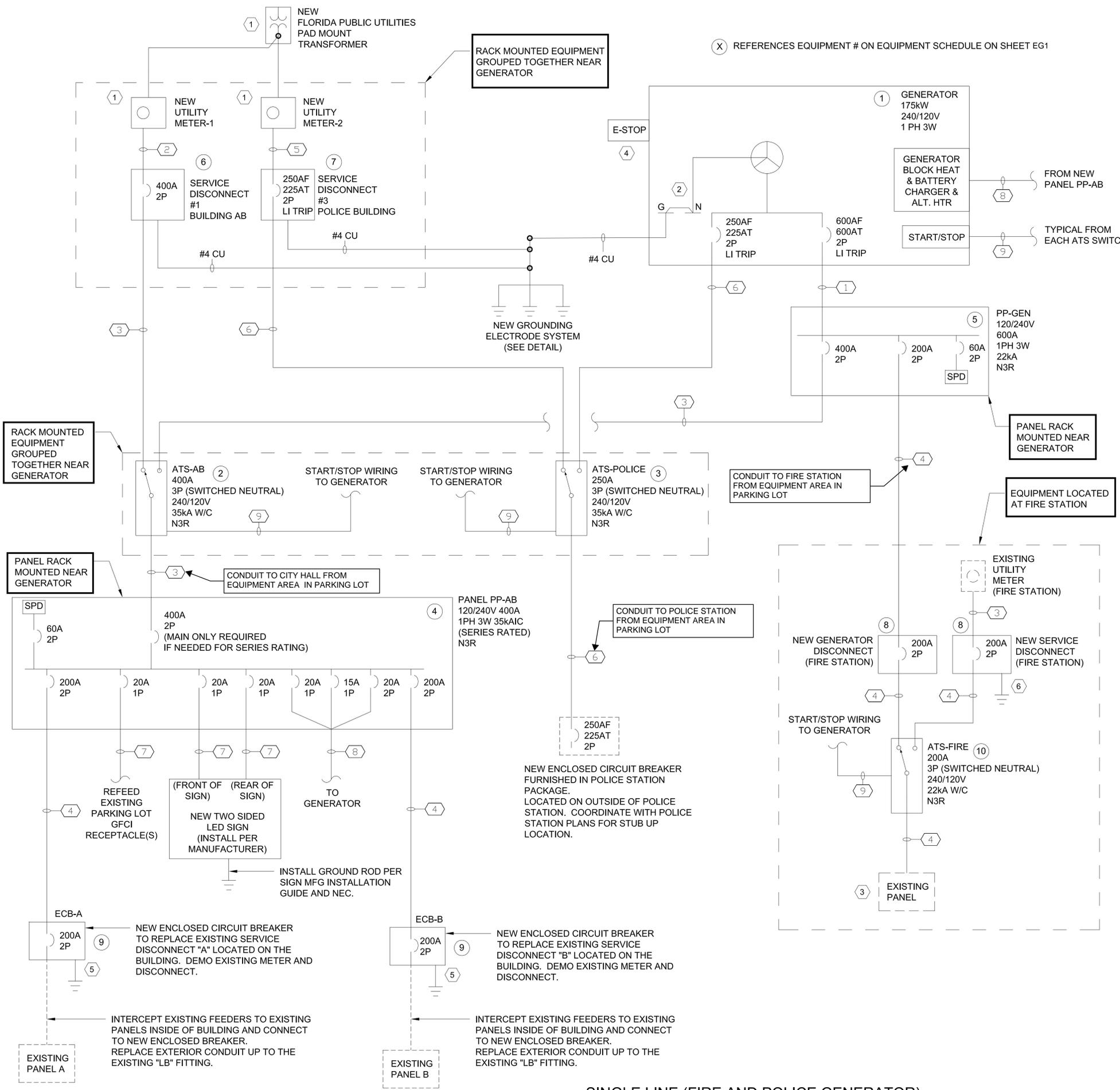
SHEET NO:

**EG1**

RELEASE FOR CONSTRUCTION

X NOT FOR CONSTRUCTION

NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN PERMISSION OF DAVID H. MELVIN, INC.



(X) REFERENCES EQUIPMENT # ON EQUIPMENT SCHEDULE ON SHEET EG1

CONDUIT AND WIRE LEGEND (COPPER CONDUCTORS)	
NO.	DESCRIPTION
1	2 RUNS OF 3 - #350 KCML, 1 - #1 (G), 3" C.
2	2 RUNS OF 3 - #3/0 AWG, 2" C.
3	2 RUNS OF 3 - #3/0 AWG, 1 - #3 (G), 2" C.
4	3 - #3/0 AWG, 1 - #4 (G), 2" C.
5	3 - #4/0 AWG, 2" C.
6	3 - #4/0 AWG, 1 - #4 (G), 2" C.
7	2 - #10 AWG, 1 - #10 AWG, 0.5" C.
8	2 - #10 AWG, 4 - #12 AWG, 1 - #12 AWG (G), 0.75" C.
9	4 - #14 AWG, 1 - #12 AWG (G), 0.5" C.

**INSTALLATION NOTES**

**EXISTING BUILDING SERVICES A & B**

INSTALL NEW ENCLOSED CIRCUIT BREAKERS AS SHOWN ON THE SINGLE LINE TO REPLACE EXISTING METER/SERVICE DISCONNECTS LOCATED ON THE BUILDINGS. DEMO THE EXISTING ATS, GENERATOR (DELIVER TO OWNER), METERS, AND FUSED DISCONNECTS FOR BUILDING SERVICES A & B. TERMINATE EXISTING FEEDERS THAT ENTER THE BUILDING IN THE NEW ENCLOSED CIRCUIT BREAKERS. DO NOT SPLICE THE EXISTING CONDUCTORS. IF THEY CAN'T BE REWORKED TO TERMINATE IN NEW ECB'S, REPULL THEM FROM THE NEW ECB'S TO THE EXISTING INSIDE PANELS.

**FIRE STATION**

INSTALL NEW SERVICE DISCONNECT, NEW GENERATOR DISCONNECT, AND NEW ATS AND REFEED EXISTING PANEL INSIDE BUILDING LOCATED BEHIND THE EXISTING POWER METER. NEW EQUIPMENT CAN BE MOUNTED ON THE BUILDING ADJACENT TO THE EXISTING POWER METER.

**POLICE STATION**

A NEW POLICE STATION IS BEING CONSTRUCTED AS PART OF ANOTHER CONTRACT. INSTALL NEW FEED FROM NEW ATS-POLICE TO ENCLOSED CIRCUIT BREAKER (FURNISHED IN POLICE STATION CONTRACT) ON THE EXTERNAL OF POLICE STATION. IF POLICE STATION IS NOT CONSTRUCTED YET COORDINATE STUB UP LOCATION WITH POLICE STATION DESIGN AND FURNISH CONDUIT ONLY. CONFIRM POLICE STATION FINAL LOAD REQUIREMENTS BEFORE ORDERING EQUIPMENT. POLICE STATION SERVICE HAS BEEN INDICATED TO BE 225A BY EOR OF THAT PROJECT, BUT POLICE STATION DESIGN IS NOT FINALIZED AS OF THESE PLANS.

**KEY NOTES**

- COORDINATE WITH FLORIDA PUBLIC UTILITIES FOR SERVICE & METERING REQUIREMENTS. POWER COMPANY IS DEMOING OVERHEAD AND INSTALLING NEW UNDERGROUND DISTRIBUTION AT THIS SITE. REFERENCE FLORIDA PUBLIC UTILITIES DRAWING "ELEC" DATED 5/2/2025.
- BOND GENERATOR NEUTRAL TO GROUNDING ELECTRODE SYSTEM (SEPARATELY DERIVED SYSTEM) PER NEC ARTICLE 250.
- REMOVE NEUTRAL TO GROUND BOND IN EXISTING PANEL AND BOND THE UTILITY NEUTRAL AT THE NEW SERVICE DISCONNECT.
- FIELD LOCATE AND MOUNT GENERATOR E-STOP ON EXTERIOR OF GENERATOR ENCLOSURE IN READILY ACCESSIBLE LOCATION.
- CONNECT THE EQUIPMENT GROUND BAR IN THE NEW ECB'S LOCATED ON THE BUILDINGS TO THE EXISTING GROUND RODS AT THE EXISTING BUILDINGS OR FURNISH AND INSTALL NEW GROUND ROD. THESE GROUND BARS SHOULD NOT BE BONDED TO THE NEUTRAL IN THE ECB (ONLY NEUTRAL BONDS SHALL BE AT SERVICE DISCONNECTS AND GENERATOR).
- INSTALL (2) NEW 10' GROUND RODS AND CONNECT TO THE EXISTING GROUND ROD WITH #4 AWG COPPER. INSTALLATION SHALL BE SIMILAR TO THE GROUNDING DETAIL ON SHEET E3.

**SINGLE LINE (FIRE AND POLICE GENERATOR)**

**DHM**  
**MELVIN ENGINEERING**  
 EB-0005637 LC-000277

**MARIANNA OFFICE**  
 4428 Lafayette Street  
 Marianna, FL 32446  
 Phone: (850) 482-3045

**TALLAHASSEE OFFICE**  
 2541-1 Barrington Circle  
 Tallahassee, FL 32308  
 Phone: (850) 671-7221

www.melvineng.com

PROJECT: **Cottondale Critical Facilities Generators**

OWNER: **City of Cottondale**

CHAD HALL, P.E.

FLORIDA REG. NO. 65846

DATE CREATED: 07/14/25

REVISIONS:

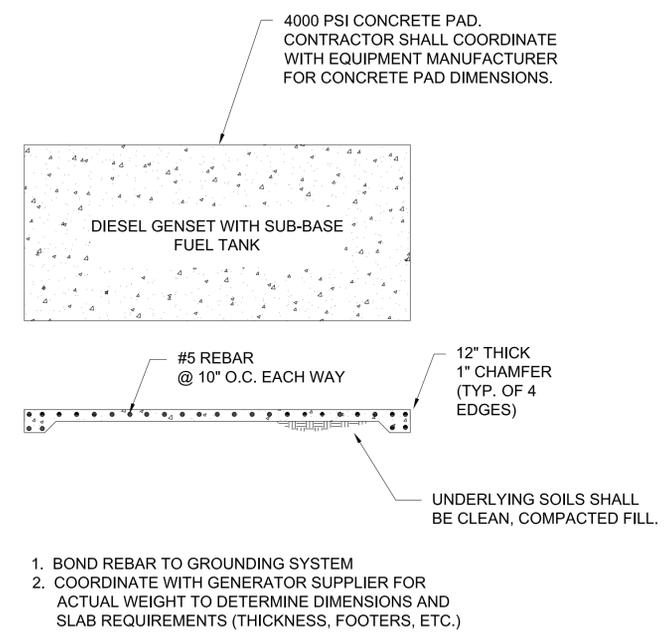
PROJECT NO: COT22GE  
 CAD FILE: COT22GE  
 DRAWN BY: C.H.  
 CHECKED BY: C.H.

SHEET TITLE:  
**POLICE AND FIRE GENERATOR ELECTRICAL SINGLE LINE DIAGRAM**

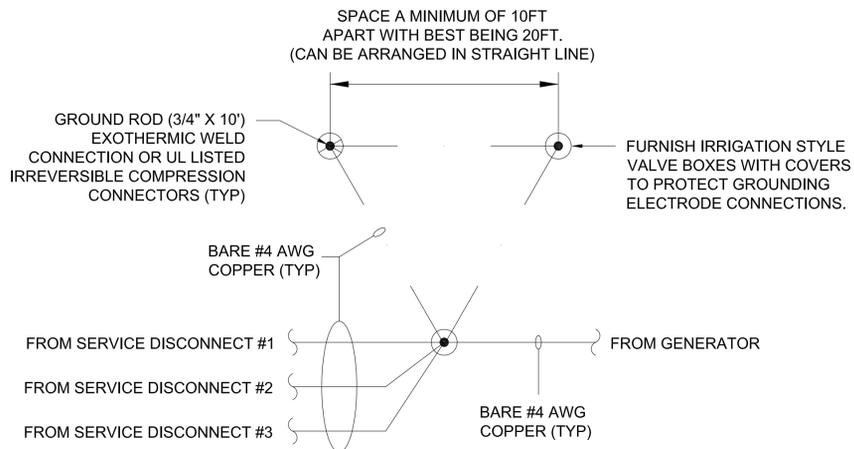
SHEET NO:  
**EG1.1**

RELEASE FOR CONSTRUCTION  
 X NOT FOR CONSTRUCTION

REVISIONS:

GENERATOR PAD DETAIL



GROUNDING ELECTRODE SYSTEM NOTES

- UTILIZE #4 COPPER AS SHOWN FOR ADDITIONAL DURABILITY EVEN THOUGH THE NEC REQUIRES THE GROUNDING ELECTRODE CONDUCTOR TO BE NO LARGER THAN #6 COPPER WHEN CONNECTING TO A GROUND ROD. INSTALL THE GEC'S IN 1" SCH. 80 PVC CONDUIT STUBBED INTO GROUND TO PROTECT FROM LAWN EQUIPMENT.

DETAIL - GROUNDING SYSTEM

**④ PROPOSED PANELBOARD "PP-AB"** LOCATION EXTERIOR RACK

400 AMP BUS RATING 400 AMP MAIN BREAKER 35KAIC S.E. RATED AS REQUIRED POLES  
 120/240 VOLTS 1 PH. 3 WIRE 60 HZ. N3R SURFACE MOUNTED

DESCRIPTION	LOAD VA	C/B AMP/POLE		C/B AMP/POLE	LOAD VA	DESCRIPTION
BUILDING PANEL A ECB	16000	200 / 2	1	2	20 / 2	1250 GENERATOR BLOCK HEATER
	16000	- / -	3	4	- / -	1250
BUILDING PANEL B ECB	12000	200 / 2	5	6	20 / 1	600 GEN. BATTERY CHARGER
	12000	- / -	7	8	20 / 1	540 GFCI PARKING LOT RECEPTACLE(S)
		- / -	9	10	15 / 1	300 GEN. ALT. HEATER
		- / -	11	12	20 / 1	360 LED SIGN (FRONT OF SIGN)
INTERNAL SPD (240KA)		60 / 2	13	14	20 / 1	360 LED SIGN (REAR OF SIGN)
		- / -	15	16	- / -	

\*400A MAIN 2P

\* MAIN LUG PANEL IS ACCEPTABLE IF FULLY RATED TO THE INDICATED INTERRUPTING RATING. MAIN BREAKER IS ONLY REQUIRED IF SERIES RATING IS UTILIZED.

L1 L2

TOTAL CONNECTED VOLT-AMPS: 30510 L1 30150 L2

TOTAL CONNECTED AMPS: 254 L1 251 L2

NEW PANELBOARD "PP-AB" PANEL SCHEDULE

**⑤ PROPOSED PANELBOARD "PP-GEN"** LOCATION EXTERIOR RACK

600 AMP BUS RATING 600 AMP MAIN LUG 22KAIC S.E. RATED AS REQUIRED POLES  
 120/240 VOLTS 1 PH. 3 WIRE 60 HZ. N3R SURFACE MOUNTED

DESCRIPTION	LOAD VA	C/B AMP/POLE		C/B AMP/POLE	LOAD VA	DESCRIPTION
ATS-AB (PP-AB)	30150	400 / 2	1	2	200 / 2	15000 ATS-FIRE STATION
	29790	- / -	3	4	- / -	15000
		- / -	5	6	- / -	
		- / -	7	8	- / -	
		- / -	9	10	- / -	
		- / -	11	12	- / -	
INTERNAL SPD (240KA)		60 / 2	13	14	- / -	
		- / -	15	16	- / -	

L1 L2

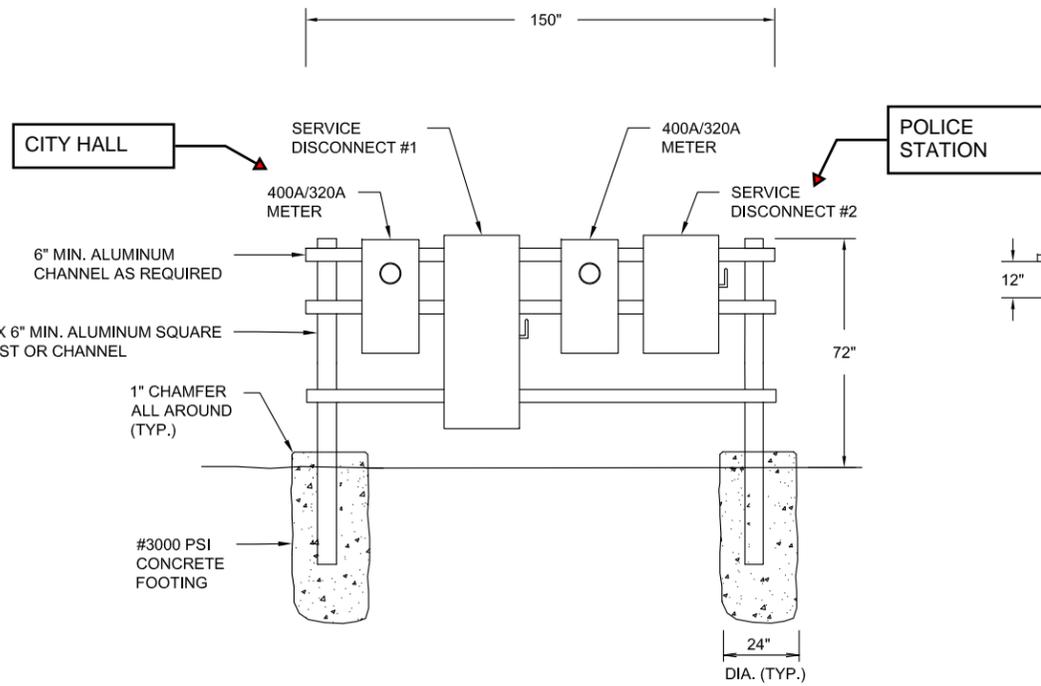
TOTAL CONNECTED VOLT-AMPS: 45150 L1 44790 L2

TOTAL CONNECTED AMPS: 376 L1 373 L2

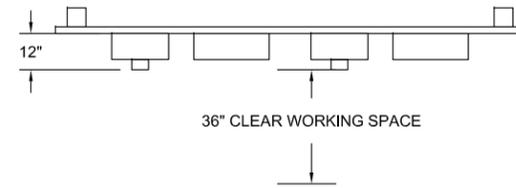
NEW PANELBOARD "PP-GEN" PANEL SCHEDULE

C. DAVID H. MELVIN, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN PERMISSION OF DAVID H. MELVIN, INC.

NO.	DESCRIPTION



**NEW METER RACK**

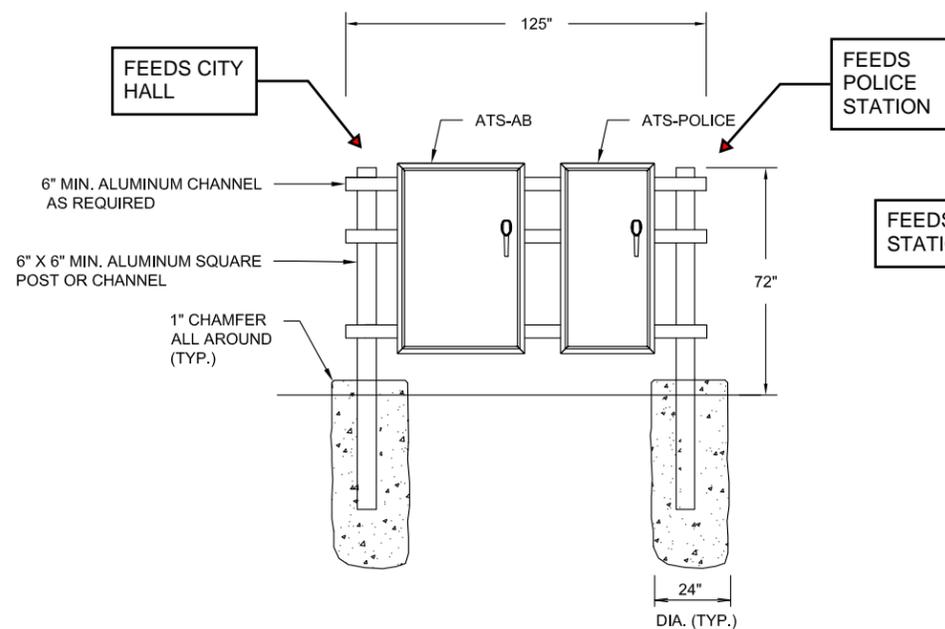


**PLAN VIEW - NEW METER RACK**

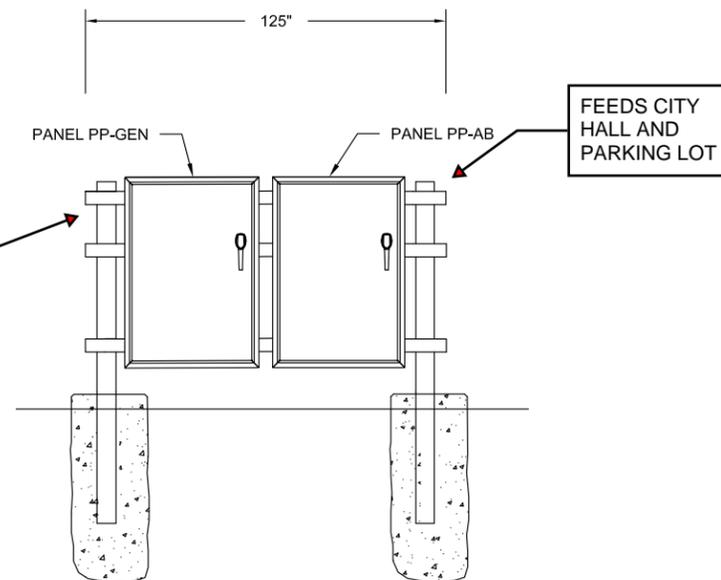
ALL EQUIPEMNTN ON THIS SHEET IS LOCATED NEAR GENERATOR

**NOTES:**

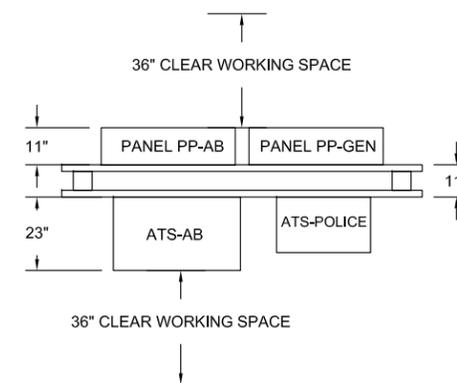
1. ALL MOUNTING HARDWARE SHALL BE 316 STAINLESS STEEL UNLESS OTHERWISE NOTED.
2. DIMENSIONS SHOWN ARE FOR TYPICAL EQUIPMENT. FIELD LOCATE & CONFIGURE RACK AS REQUIRED FOR ACTUAL EQUIPMENT DIMENSIONS. RACKS SHOWN ARE FOR EXAMPLE AND BASIS OF DESIGN.
3. ENSURE 3FT OF WORKING SPACE IS AVAILABLE IN FRONT OF RACK MOUNTED ELECTRICAL EQUIPMENT PER NEC.
4. ALL RACK MOUNTED EQUIPMENT SHOWN ON THIS DRAWING IS LOCATED AT THE NEW GENERATOR.
5. NO RACK DETAIL IS SHOWN FOR THE FIRE STATION EQUIPMENT AS IT IS TO BE MOUNTED TO BUILDING ADJACENT TO THE EXISTING METER ON CHANNEL OR STRUT.
6. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ANY FREESTANDING EQUIPMENT.



**NEW ATS & PANELBOARD RACK (FRONT)**



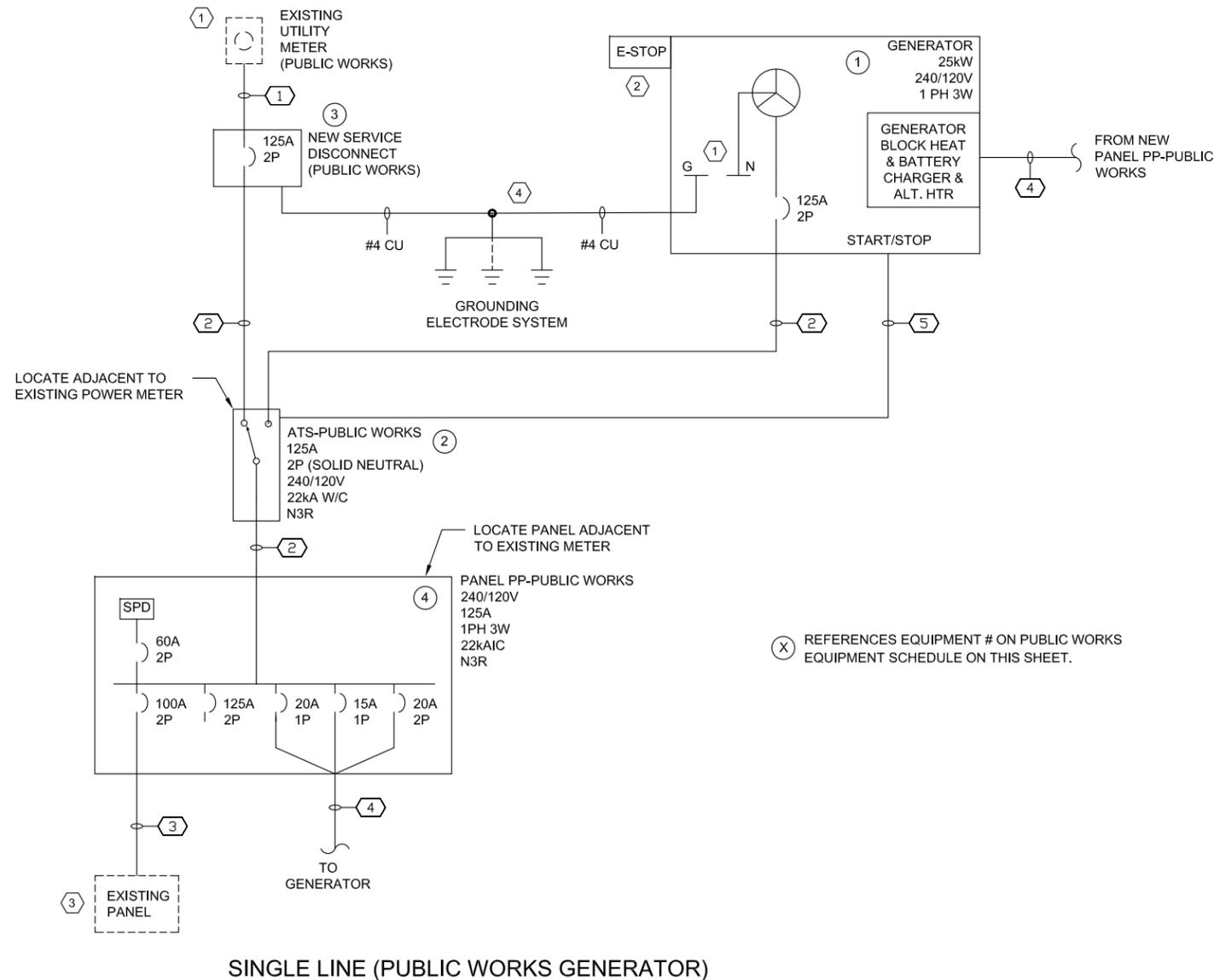
**NEW ATS & PANELBOARD RACK (REAR)**



**PLAN VIEW - NEW ATS & PANELBOARD RACK**

**PROJECT NOTES (PUBLIC WORKS)**

1. THE SCOPE OF WORK IS TO MODIFY THE EXISTING ELECTRICAL SYSTEM AS REQUIRED TO ADD A NEW PERMANENTLY MOUNTED GENERATOR TO PROVIDE BACKUP POWER FOR THE EXISTING PUBLIC WORKS BUILDING. THIS WILL AT A MINIMUM INCLUDE BUT NOT BE LIMITED TO THE NEW GENERATOR, NEW ATS SWITCH, NEW SERVICE DISCONNECT, PANEL, EQUIPMENT RACKS, CONCRETE WORK, ETC. THE SCOPE INCLUDES ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK. THIS COULD INCLUDE BUT IS NOT LIMITED TO MOUNTING RACKS, CONDUIT AND WIRING, UNDERGROUND LOCATES, ETC.
2. WORK SHALL BE SCHEDULED & PERFORMED TO MINIMIZE ELECTRICAL OUTAGE TIME AS MUCH AS POSSIBLE. COORDINATE WITH POWER COMPANY & OWNER FOR OUTAGE WORK AND MAKE TIE INS ON THE WEEKEND TO PROVIDE AS MINIMAL POWER DISRUPTION AS POSSIBLE.
3. BIDDERS ARE ENCOURAGED TO VISIT THE SITE TO INSURE ALL EXISTING CONDITIONS AND REQUIREMENTS ARE COMPLETELY UNDERSTOOD.
4. FIELD LOCATE NEW EQUIPMENT AS NOTED OR REQUIRED. NEW SERVICE EQUIPMENT AND ATS SWITCH SHALL BE FIELD LOCATED ADJACENT TO EXISTING POWER METER WHERE POSSIBLE.
5. ALL WORK SHALL COMPLY WITH 2020 NEC, 8TH EDITION FLORIDA BUILDING CODE, AND ALL APPLICABLE LOCAL CODES.
6. ALL ABOVE GRADE CONDUIT SHALL BE ALUMINUM RIGID (SEALTITE FLEX SHALL BE ACCEPTABLE) UNLESS OTHERWISE NOTED AND/OR REQUIRED BY THE 2020 NEC CODE FOR THE AREA & CONDITIONS OF INSTALLATION. ALL BELOW GRADE CONDUIT SHALL BE SCHEDULE 80 RIGID PVC. ALL CONDUCTORS SHALL BE COPPER WITH INSULATION SUITABLE FOR WET & DRY LOCATIONS (THWN-2). CONDUCTORS SHALL BE SIZED TO ENSURE VOLTAGE DROP DOES NOT EXCEED 2%.
7. LABEL ALL ELECTRICAL EQUIPMENT AS REQUIRED BY THE 2020 NEC CODE. LOCATIONS FROM WHICH CIRCUITS ORIGINATE AND TERMINATE SHALL BE MARKED ON ALL EQUIPMENT.
8. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING PROJECT AND BRING ANY DISCREPANCIES UP TO THE ENGINEER FOR CLARIFICATION.



**SINGLE LINE (PUBLIC WORKS GENERATOR)**

**EQUIPMENT SCHEDULE (PUBLIC WORKS)**

①	GENERATOR: 120/240V, 1-PHASE, 25 KW DIESEL GENERATOR IN SOUND ATTENUATED ALUMINUM WEATHERPROOF ENCLOSURE THAT MEETS TAS 201 LEVEL E AND RATED FOR 180MPH WIND PER FEMA GRANT REQUIREMENTS AND THE LATEST EDITION OF THE FLORIDA BUILDING CODE. PROVIDE WITH (1) 125A, 2 POLE, OUTPUT CIRCUIT BREAKER TO COORDINATE WITH WIRING & ATS SUPPLIER "SPECIFIC BREAKER" RATINGS. PROVIDE WITH 120VAC BATTERY CHARGER, 120VAC ALTERNATOR ANTI CONDENSATION HEATER, AND 240VAC 1PH BLOCK HEATER. FURNISH E-STOP. FURNISH FLORIDA DEP APPROVED DOUBLE WALLED SUB-BASE FUEL TANK WITH FUEL CAPACITY FOR 48HRS AT GENSET RATED FULL LOAD.  GENERATOR SIZING IS FOR 125A SERVICE. PROVIDE 2 DAYS OF STARTUP AND TESTING IN THE BID. PROVIDE 2 YEAR WARRANTY.
②	ATS-PUBLIC WORKS: 240V, 125 AMP, 22KAIC WITHSTAND RATING, 2-POLE WITH SOLID NEUTRAL, NEMA 3R ENCLOSURE. ATS SHALL HAVE INTEGRAL SURGE PROTECTIVE DEVICE. ASCO 300 SERIES OR EQUAL. INCLUDE 1 DAY OF STARTUP, PROGRAMMING, AND TESTING IN THE BID. IF SPECIFIC BREAKER RATINGS ARE UTILIZED, THE ATS SUPPLIER AND CONTRACTOR ARE RESPONSIBLE FOR ENSURING THE "SPECIFIC BREAKER" WITHSTAND RATINGS ARE VALID.
③	SERVICE DISCONNECT PUBLIC WORKS: ENCLOSED CIRCUIT BREAKER 125 AMP, 120/240V, 2-POLE, 22KAIC MINIMUM, S.E. RATED, INCLUDE WITH SOLID NEUTRAL & GROUND, NEMA 3R ENCLOSURE. SHALL BE LOCKABLE. SCHNEIDER ELECTRIC HG OR EQUAL.
④	PANELBOARD "PP-PUBLIC WORKS": 125A, 120/240, 1PH 3W, 22KAIC FULLY RATED, 125A MAIN LUG, NEMA 3R ENCLOSURE WITH HINGED LOCKABLE COVER, BOLT IN BREAKERS, COPPER BUSSING, AND INTERNAL 240KA SURGE PROTECTION DEVICE. FURNISH WITH BRANCH BREAKERS AS SHOWN (ADJUST BLOCK & ALTERNATOR HEATER AND BATTERY CHARGER BREAKER SIZES AS REQUIRED PER ACTUAL SUBMITTED GENERATOR). SCHNEIDER ELECTRIC NQ OR EQUAL.

**CONDUIT AND WIRE LEGEND (COPPER CONDUCTORS)**

NO.	DESCRIPTION
①	3 - #1 AWG, 1.5" C.
②	3 - #1 AWG, 1 - #6 (G), 1.5" C.
③	3 - #3 AWG, 1 - #6 (G), 1.5" C.
④	2 - #10 AWG, 4 - #12 AWG, 1 - #12 AWG (G), 0.75" C.
⑤	4 - #14 AWG, 1 - #12 AWG (G), 0.5" C.

**INSTALLATION NOTES**

**PUBLIC WORKS**

INSTALL NEW SERVICE DISCONNECT, NEW ATS, AND NEW PANELBOARD AND REFEED EXISTING PANEL INSIDE BUILDING LOCATED BEHIND THE EXISTING POWER METER. NEW EQUIPMENT CAN BE MOUNTED ON THE BUILDING ADJACENT TO THE EXISTING POWER METER.

**KEY NOTES**

- ① DO NOT BOND GENERATOR NEUTRAL TO GROUND (NOT A SEPARATELY DERIVED SYSTEM) PER NEC ARTICLE 250.
- ② FIELD LOCATE AND MOUNT GENERATOR E-STOP ON EXTERIOR OF GENERATOR ENCLOSURE IN READILY ACCESSIBLE LOCATION.
- ③ REMOVE NEUTRAL TO GROUND BOND IN EXISTING PANEL AND BOND THE UTILITY NEUTRAL AT THE NEW SERVICE DISCONNECT.
- ④ INSTALL (2) NEW 10' GROUND RODS AND CONNECT TO THE EXISTING GROUND ROD WITH #4 AWG COPPER. SEE DETAIL ON THE NEXT SHEET.



**MELVIN ENGINEERING**  
EB-0005637 LC-0000277

MARIANNA OFFICE  
4428 Lafayette Street  
Marianna, FL 32446  
Phone: (850) 482-3045

TALLAHASSEE OFFICE  
2541-1 Barrington Circle  
Tallahassee, FL 32308  
Phone: (850) 671-7221

www.melvineng.com

PROJECT:  
Cottondale Critical Facilities  
Generators

OWNER:  
City of Cottondale

CHAD HALL, P.E.

FLORIDA REG. NO. 65846

DATE CREATED: 07/14/25

REVISIONS:

PROJECT NO: COT22GE

CAD FILE: COT22GE

DRAWN BY: C.H.

CHECKED BY: C.H.

SHEET TITLE:

PUBLIC WORKS  
ELECTRICAL SINGLE  
LINE DIAGRAM

SHEET NO:

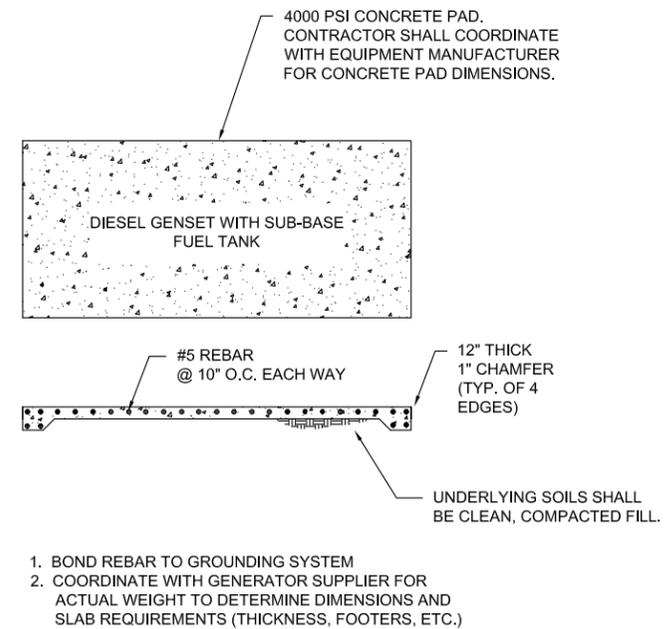
**EG2**

RELEASE FOR CONSTRUCTION

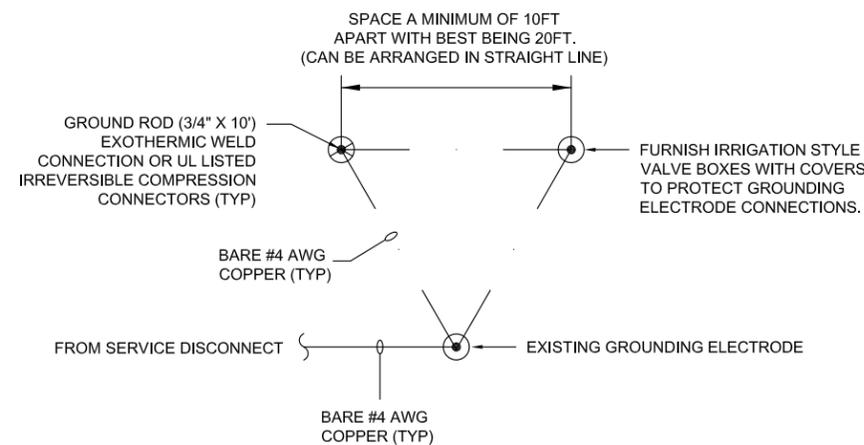
X NOT FOR CONSTRUCTION

④ PROPOSED PANELBOARD "PP-PUBLIC WORKS" LOCATION <u>EXTERIOR RACK</u>						
125 AMP BUS RATING		125 AMP MAIN LUG		22KAIC S.E. RATED		AS REQUIRED POLES
120/240 VOLTS		1 PH. 3 WIRE 60 HZ.		N3R SURFACE MOUNTED		
DESCRIPTION	LOAD VA	C/B AMP/POLE		C/B AMP/POLE	LOAD VA	DESCRIPTION
EXISTING BUILDING PANEL	9600	100 / 2	1	20 / 2	1250	GENERATOR BLOCK HEATER
	9600	- / -	3	- / -	1250	
		- / -	5	20 / 1	600	GEN. BATTERY CHARGER
		- / -	7	15 / 1	300	GEN. ALT. HEATER
		- / -	9	15 / 1		SPARE
		- / -	11	30 / 1		SPARE
INTERNAL SPD (240KA)		60 / 2	13	125 / 2		SPARE
		- / -	15	- / -		
TOTAL CONNECTED VOLT-AMPS:			11450 L1	11150 L2		
TOTAL CONNECTED AMPS:			95 L1	93 L2		

NEW PANELBOARD "PP-PUBLIC WORKS" PANEL SCHEDULE



GENERATOR PAD DETAIL



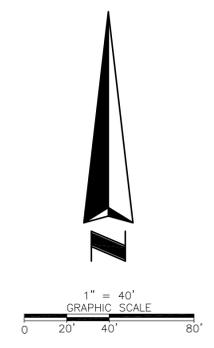
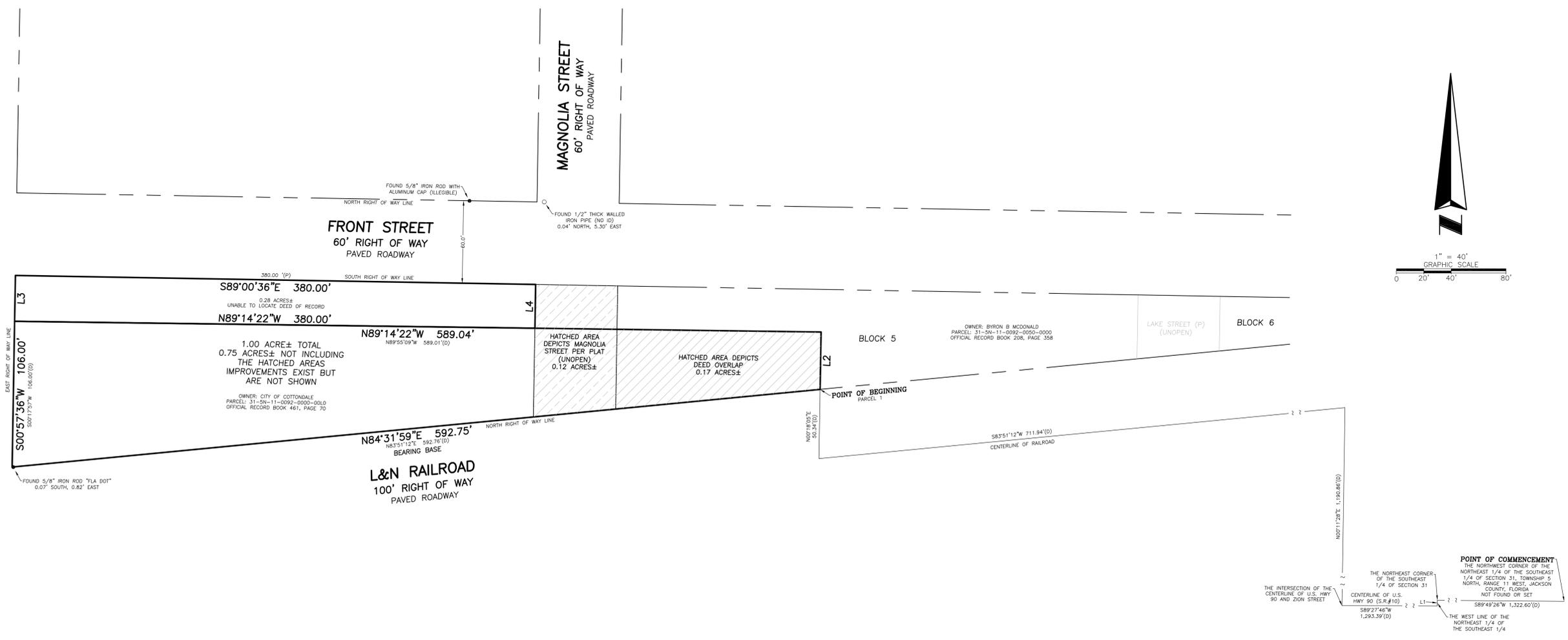
GROUNDING ELECTRODE SYSTEM NOTES

- ADD (2) ADDITIONAL GROUND RODS CONNECTED TO THE EXISTING GROUND ROD PER DETAIL ABOVE.
- UTILIZE #4 COPPER AS SHOWN FOR ADDITIONAL DURABILITY EVEN THOUGH THE NEC REQUIRES THE GROUNDING ELECTRODE CONDUCTOR TO BE NO LARGER THAN #6 COPPER WHEN CONNECTING TO A GROUND ROD. INSTALL THE GEC'S IN 1" SCH. 80 PVC CONDUIT STUBBED INTO GROUND TO PROTECT FROM LAWN EQUIPMENT.

DETAIL - GROUNDING SYSTEM



STATE ROAD NO. 75 (U.S. HWY 231)  
80' RIGHT OF WAY PER FOOT  
MAP SECTION NO. 53030-2516  
PAVED HIGHWAY



**DESCRIPTION (OFFICIAL RECORD BOOK 461, PAGE 70):**

COMMENCE AT A NAIL & CAP [RLS 3266] MARKING, BY DEEDS, THE NORTHWEST CORNER OF THE NORTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 31, TOWNSHIP 5 NORTH, RANGE 11 WEST, JACKSON COUNTY, FLORIDA (SAID NAIL & CAP BEING SOUTH 89 DEGREES 49 MINUTES 26 SECONDS WEST 1322.60 FEET FROM A RE-BAR & CAP [RLS 3214] MARKING THE NORTHEAST CORNER OF SAID SE 1/4) AND PROCEED; THENCE SOUTH 00 DEGREES 09 MINUTES 43 SECONDS EAST, ALONG THE WEST BOUNDARY OF SAID NORTHEAST QUARTER OF THE SOUTHEAST QUARTER, 4.04 FEET TO ANOTHER NAIL & CAP [RLS 3266] ON THE CENTERLINE OF HIGHWAY 90 (ALSO BEING S.R. #10); THENCE SOUTH 89 DEGREES 27 MINUTES 46 SECONDS WEST 1293.39 FEET TO A FOUND NAIL AT THE INTERSECTION OF U.S. HIGHWAY 90 AND ZION STREET; THENCE NORTH 00 DEGREES 11 MINUTES 28 SECONDS EAST 1190.86 FEET TO THE CENTERLINE OF THE MAIN RAILROAD TRACKS FOR THE CSX RAILROAD; THENCE SOUTH 83 DEGREES 51 MINUTES 12 SECONDS WEST, ALONG SAID CENTERLINE OF THE MAIN RAILROAD TRACKS, 711.94 FEET; THENCE NORTH 00 DEGREES 18 MINUTES 05 SECONDS EAST 50.34 FEET TO AN IRON BAR & CAP [RLS 3266] ON THE NORTH RIGHT OF WAY BOUNDARY OF SAID CSX RAILROAD'S 100 FOOT WIDE RIGHT OF WAY TO MARK THE POINT OF BEGINNING. FROM SAID POINT OF BEGINNING, THENCE CONTINUE NORTH 00 DEGREES 18 MINUTES 05 SECONDS EAST 41.70 FEET TO AN IRON BAR & CAP [RLS 3266]; THENCE NORTH 89 DEGREES 55 MINUTES 09 SECONDS WEST 589.01 FEET TO A NAIL AND CAP [RLS 3266] ON THE EAST RIGHT OF WAY BOUNDARY OF AN 80 FOOT WIDE ROADWAY KNOWN AS U.S. HIGHWAY 231 (ALSO BEING S.R. #75 AND MAIN STREET); THENCE SOUTH 00 DEGREES 17 MINUTES 57 SECONDS WEST, ALONG SAID EAST RIGHT OF WAY BOUNDARY, 106.00 FEET TO AN IRON BAR [LB# 1853] ON SAID NORTH RIGHT OF WAY BOUNDARY FOR CSX RAILROAD; THENCE NORTH 83 DEGREES 51 MINUTES 12 SECONDS EAST, ALONG SAID NORTH RIGHT OF WAY BOUNDARY, 592.76 FEET TO THE POINT OF BEGINNING, CONTAINING 1.00 ACRE MORE OR LESS.

**SURVEYOR'S REPORT:**

- THIS IS A BOUNDARY SURVEY WITH THE LOCATION OF ABOVEGROUND FIXED IMPROVEMENTS ONLY. THE BOUNDARIES WERE DETERMINED FROM A DESCRIPTION FOUND IN THE PUBLIC RECORDS IN OFFICIAL RECORD BOOK 461 PAGE 70.
- THE LAST DAY OF FIELD WORK WAS PERFORMED ON 5/23/2025.
- THE MINIMUM HORIZONTAL ACCURACY FOR THIS SURVEY IS IN ACCORDANCE WITH THE STANDARDS OF PRACTICE SET FORTH BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17 REQUIREMENTS OF FLORIDA ADMINISTRATION CODE. THE MAP AND MEASUREMENT METHODS USED FOR THIS SURVEY MEET OR EXCEED THIS REQUIREMENT. THE DIMENSIONS SHOWN HEREON ARE IN UNITED STATES SURVEY FEET AND DECIMALS THEREOF.
- BEARINGS SHOWN HEREON ARE GRID AND ARE BASED ON FLORIDA DEPARTMENT OF TRANSPORTATION'S "FLORIDA PERMANENT REFERENCE NETWORK" GNSS CONTINUOUSLY OPERATING REFERENCE STATIONS "FLMR" & "FLB". THE RELATIVE BEARING IS N84°31'59"E ALONG THE MONUMENTED NORTH RIGHT OF WAY LINE OF L&N RAILROAD. BEARINGS AND DISTANCES SHOWN HEREON ARE MEASURED UNLESS OTHERWISE NOTED.
- RIGHT OF WAY INFORMATION SHOWN HEREON WAS DETERMINED BY FOUND MONUMENTATION AND F.D.O.T RIGHT OF WAY MAP SECTION #53030-2516.
- UNLESS SHOWN, ONLY THOSE VISIBLE FEATURES FOUND WITHIN THE BOUNDARIES OF THIS SURVEY OR IN THE IMMEDIATE VICINITY OF THE SUBJECT PARCEL BOUNDARY HAVE BEEN LOCATED.
- EASEMENTS OR OTHER RIGHTS OF WAY THAT APPEAR ON RECORDED PLANS OR THAT HAVE BEEN FURNISHED TO THE SURVEYOR BY OTHERS HAVE BEEN INCORPORATED INTO THIS DRAWING WITH APPROPRIATE NOTATION. OTHER EASEMENTS MAY BE DISCOVERED BY A SEARCH OF THE PUBLIC RECORDS.
- THIS SURVEY WAS PERFORMED WITHOUT BENEFIT OF AN ABSTRACT, TITLE SEARCH, TITLE OPINION OR TITLE COMMITMENT. A TITLE SEARCH MAY REVEAL ADDITIONAL INFORMATION AFFECTING THE PARCEL AS SHOWN.
- THIS SURVEY DOES NOT DETERMINE THE OWNERSHIP OF THE LANDS SHOWN HEREON.
- UNLESS OTHERWISE DENOTED ON THIS SURVEY, NO STATE OR FEDERAL JURISDICTIONAL BOUNDARIES WERE ESTABLISHED, RECOVERED, DEFINED, OR DELINEATED, IF THEY EXIST.
- IN THE EVENT OF A DISPUTE OR DISAGREEMENT, THE CLIENT IS ADVISED TO SEEK LEGAL COUNCIL BEFORE CLEARING, CONSTRUCTING, OR REMOVING ANY FENCES OR OTHER PERMANENT STRUCTURES.
- FEATURES SHOWN BY SYMBOL AS INDICATED IN THE LEGEND ARE NOT TO SCALE. THESE AND OTHER FEATURES SUCH AS PERMANENT STRUCTURES, FENCE LINES, ADDITIONAL MONUMENTATION, ETC. FOUND NEAR THE SUBJECT BOUNDARY LINES, MAY BE SHOWN AT AN EXAGGERATED SCALE TO MORE CLEARLY REPRESENT THEIR LOCATION.
- UTILITY LOCATIONS IF SHOWN HEREON ARE BASED ON FIELD LOCATION OF MARKINGS BY UTILITY COMPANY REPRESENTATIVES, SURFACE FEATURES AND/OR CONSTRUCTION PLANS FURNISHED TO THE SURVEYOR. ADDITIONAL SUB-SURFACE UTILITIES MAY EXIST THAT HAVE NOT BEEN FIELD LOCATED.
- UNDERGROUND FOUNDATIONS, IF ANY, HAVE NOT BEEN LOCATED.
- THE SURVEY MAP AND REPORT OR THE COPIES THEREOF, ARE NOT VALID WITHOUT THE ORIGINAL SIGNATURE OR THE ELECTRONIC SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
- ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- THE ABOVE-DESCRIBED PARCEL CONTAINS 1.00 ACRE TOTAL, MORE OR LESS.

**NOTICE OF LIABILITY:**

THIS SURVEY IS CERTIFIED TO THOSE INDIVIDUALS SHOWN ON THE FACE THEREOF. ANY OTHER USE, BENEFIT OR RELIANCE BY ANY OTHER PARTY IS STRICTLY PROHIBITED AND RESTRICTED. SURVEYOR IS RESPONSIBLE ONLY TO THOSE CERTIFIED AND HEREBY DISCLAIMS ANY OTHER LIABILITY AND HEREBY RESTRICTS THE RIGHTS OF ANY OTHER INDIVIDUAL OR FIRM TO USE THIS SURVEY, WITHOUT EXPRESS WRITTEN CONSENT OF THE SURVEYOR.

- LEGEND & ABBREVIATIONS:**
- = SET 5/8" IRON ROD & CAP "SSMC LB 2108" UNLESS OTHERWISE NOTED
  - ? — = LINE DRAWN TO A BROKEN SCALE
  - (D) = DEED DIMENSION
  - LB = LICENSED BUSINESS
  - ID = IDENTIFICATION
  - SSMC = SOUTHEASTERN SURVEYING & MAPPING CORPORATION

LINE TABLE			LINE TABLE (D)		
LINE #	BEARING	LENGTH	LINE #	BEARING	LENGTH
L1	S00°31'04"W	4.04'	L1	S00°09'43"E	4.04'
L2	N00°58'52"E	41.70'	L2	N00°18'05"E	41.70'
L3	N00°57'36"E	33.34'			
L4	S00°57'36"W	31.82'			

THOMAS A. MEAD, PSM  
NUMBER 18243

**SSMC**  
SUE • SURVEY • GIS

SOUTHEASTERN SURVEYING  
AND MAPPING CORPORATION  
Chapley, Florida 32428  
(850) 638-0790  
e-mail: info@southesternsurveying.com  
Certification Number: 182106

BY	REVISION	SHEET NUMBER 1 OF 1 NOT VALID WITHOUT SHEETS 1 THROUGH 1
REVISION DATE		

BOUNDARY SURVEY  
2669 FRONT STREET  
COTTONDALE, FLORIDA

DHW, MELVIN ENGINEERING

Scale: 1" = 40'  
Drawn By: JS  
Field Date: 5/15/2025

DRAWING NUMBER  
**69131002**  
SHEET NUMBER  
1 OF 1







**CONSTRUCTION NOTES:**

- ENGINEER SHALL PROVIDE CONTRACTOR WITH ELECTRONIC FILE FOR SITE STAKEOUT. CONTRACTOR SHALL VERIFY ALL LAYOUT FEATURES PRIOR TO INSTALLATION OF IMPROVEMENTS. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS OR AMBIGUITY. THE CONTRACTOR SHALL UTILIZE REGISTERED SURVEYOR FOR LAYOUT OF ALL SITE IMPROVEMENTS.
- UNLESS OTHERWISE INDICATED OR MODIFIED ON THE PLANS OR IN THE SPECIFICATIONS, THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD CONSTRUCTION SHALL BE THE GOVERNING SPECIFICATIONS FOR CONSTRUCTION MATERIAL AND SITE WORK.
- WHERE REFERENCE IS MADE TO A STANDARD INDEX OR DETAIL, THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD CONSTRUCTION SHALL BE USED AS IF A PART OF THIS PLAN.
- PRIOR TO COMMENCING CONSTRUCTION IN ANY CITY, OR STATE RIGHT-OF-WAY OR EASEMENT, THE CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING PRIVATE AND PUBLIC UTILITIES. THE CONTRACTOR SHALL ALSO COORDINATE WITH THE APPROPRIATE UTILITY PROVIDER FOR ANY NECESSARY UTILITY RELOCATION'S REQUIRED TO IMPLEMENT THE PROPOSED PLAN. ANY REQUIRED UTILITY RELOCATION WORK SHALL BE INCLUDED IN THE CONSTRUCTION BID.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- EXISTING SURVEY ELEVATION INFORMATION WAS OBTAINED FROM SOUTHEASTERN SURVEYING AND MAPPING, CORP. IF ANY DISCREPANCIES ARE FOUND DURING CONSTRUCTION WITH EXISTING ELEVATION INFORMATION THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION PRIOR TO ANY FURTHER CONSTRUCTION OR INSTALLATION OF IMPROVEMENTS.
- CONTRACTOR SHALL SOD ALL DISTURBED AREA AND RE-GRADE SMOOTH ALL AREAS WITHIN US 231 RIGHT-OF-WAY (1,200 SF OF SOD) AND ON-SITE AREAS (5,500 SF). THE REMAINDER OF THE DISTURBED AREA SHALL BE SEEDED AND MULCHED TO ENSURE STABILITY AND PROHIBIT EROSION.
- CONTRACTOR SHALL NOTIFY ENGINEER FOR SITE VISIT AND CONFIRMATION OF GRADE STAKING PRIOR TO INSTALLATION OF ANY STRUCTURE, CONCRETE OR ASPHALT.
- GRADING AND ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE. THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN ONE UNIT VERTICAL IN 20 UNITS HORIZONTAL (5-PERCENT SLOPE) FOR A MINIMUM DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE WALL. IF PHYSICAL OBSTRUCTIONS OR LOT LINES PROHIBIT 10 FEET OF HORIZONTAL DISTANCE, A 5-PERCENT SLOPE SHALL BE PROVIDED TO AN APPROVED ALTERNATIVE METHOD OF DIVERTING WATER AWAY FROM THE FOUNDATION. SWALES USED FOR THIS PURPOSE SHALL BE SLOPED A MINIMUM OF 2-PERCENT WHERE LOCATED WITHIN 10 FEET OF THE BUILDING FOUNDATION. IMPERVIOUS SURFACES WITHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MINIMUM OF 2-PERCENT AWAY FROM THE BUILDING.

**CONSTRUCTION SEQUENCE:**

- ALL PERMITS (TOWN) MUST BE OBTAINED PRIOR TO ANY CONSTRUCTION COMMENCEMENT AND KEPT ON-SITE DURING CONSTRUCTION UNTIL COMPLETION OF PROJECT.
- THE CONTRACTOR SHALL REQUEST AN ON-SITE PRE-CONSTRUCTION MEETING WITH THE PROJECT ENGINEER PRIOR TO ANY CONSTRUCTION ACTIVITY.
- CONSTRUCT SEDIMENTATION/EROSION CONTROLS AND THEN CLEARLY "FLAG" THE LIMITS OF CLEARING. CONSTRUCTION ACTIVITY SHALL NOT COMMENCE UNTIL THE SEDIMENT CONTROLS HAVE BEEN INSPECTED AND APPROVED. THE CONTRACTOR SHALL CONTACT CITY REPRESENTATIVE TO INSPECT SAID SEDIMENT/EROSION CONTROLS PRIOR TO CONSTRUCTION ACTIVITY.
- CLEAR THE REMAINING PORTION OF THE SITE AND CREATE DIVERSION CHANNELS TO DIRECT THE FLOW. WHERE NEEDED, CHECK DAMS CONSTRUCTED OF HAY BALES SHALL BE USED TO TRAP SEDIMENT.
- CONSTRUCT SITE IMPROVEMENTS IN ACCORDANCE WITH THE APPROVED PLANS.
- SOD OR SEED ALL REMAINING DISTURBED AREAS.
- CONTACT PROJECT ENGINEER FOR INSPECTION OF SITE DURING CONSTRUCTION.
- PRIOR TO THE REMOVAL OF ANY EXCAVATED MATERIAL FROM THE SITE THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE LOCATION OF ALL PROPOSED DISPOSAL SITES. ALL DISPOSAL SITES SHALL BE PROPERLY PERMITTED AND APPROVED TO RECEIVE THE EXCAVATED MATERIALS. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL OF THE ALLOWABLE DISPOSAL SITES FROM THE ENGINEER PRIOR TO THE REMOVAL OF ANY EXCAVATED MATERIALS.
- OBTAIN FINAL APPROVAL FROM THE ENGINEER AND OWNER. CONTRACTOR SHALL REPAIR/REPLACE/RECONSTRUCT AT NO EXTRA COST ANY RELATED ITEMS TO THE STORMWATER CONVEYANCE SYSTEM THAT ARE FOUND TO BE IN NON-COMPLIANCE WITH THE PERMITTED PLANS.

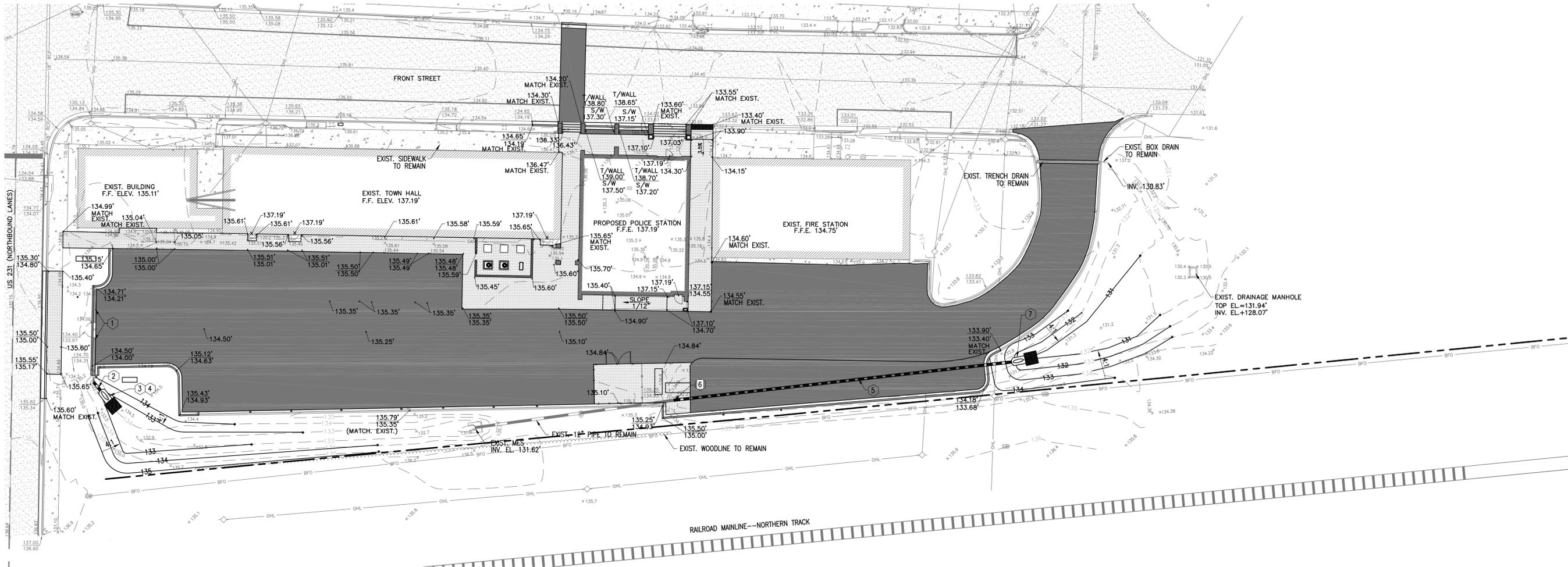
**LEGEND**

- PROPERTY BOUNDARY
- EXISTING ASPHALT AREA
- EXIST. OVERHEAD ELECTRIC
- PROPOSED CONCRETE
- AREAS TO BE MILLED/RESURFACED
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED SPOT ELEVATION
- EXISTING SEWER LATERAL



**DRAINAGE NOTES**

- EXISTING TRENCH DRAIN TO REMAIN. TRENCH DRAIN TO BE CLEANED.
- INSTALL 9 LF 12" PIPE @ 4% SLOPE
- INSTALL 12" MES INV. EL. 132.90'
- INSTALL 3'x5'x6" CONCRETE RIP-RAP (6" MIN.)
- INSTALL 137 LF 12" PIPE @ 0.15% SLOPE
- CONNECT NEW 12" PIPE TO EXISTING 12" PIPE. MAKE CONNECTION WATER TIGHT.
- INSTALL 12" MES W/5'x5'x6" CONC. RIP-RAP (MIN. 6") INV. EL. 131.00'



**GRADING AND DRAINAGE PLAN**

1" = 20'

**DHM**  
MELVIN ENGINEERING  
EB-0005637 LC-0000277

MARIANNA OFFICE  
4428 Lafayette Street  
Marianna, FL 32446  
Phone: (850) 482-3045

TALLAHASSEE OFFICE  
2541-1 Barrington Circle  
Tallahassee, FL 32308  
Phone: (850) 671-7221

www.melvineng.com

Project Name: **HURRICANE MICHAEL RECOVERY PROJECTS**  
Client Name: **CITY OF COTTONDALE**

RELEASE RECORD

No.	Date	Description

DHM Project No: COT22HR  
DRAWN BY: MARY M. FARRIS  
CHECKED BY: DHM  
PROJECT ENGINEER: David H. Melvin, P.E.  
FL Registration No: FL38734

Sheet Title:  
**GRADING AND DRAINAGE PLAN**

Drawing No: **C3**

Submital: 100% Bid Plans Date: 10-2025

Not for Construction  
X Released for Bid 10-2025

© DAVID H. MELVIN, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN PERMISSION OF DAVID H. MELVIN, INC.

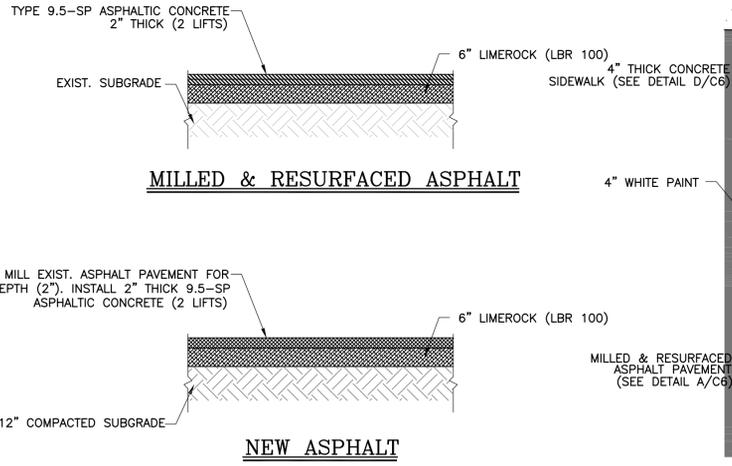




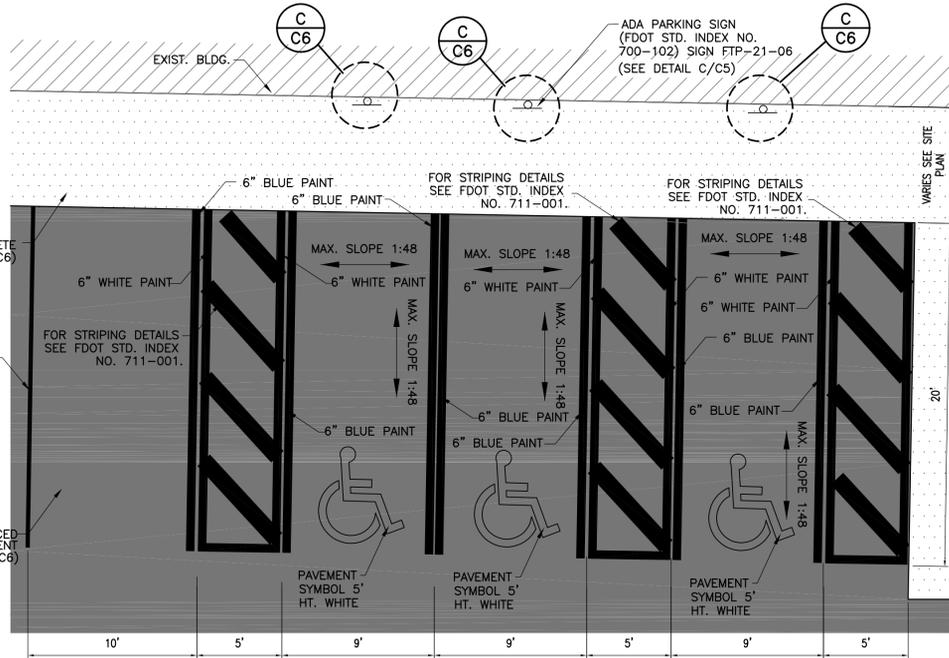


**NOTES:**

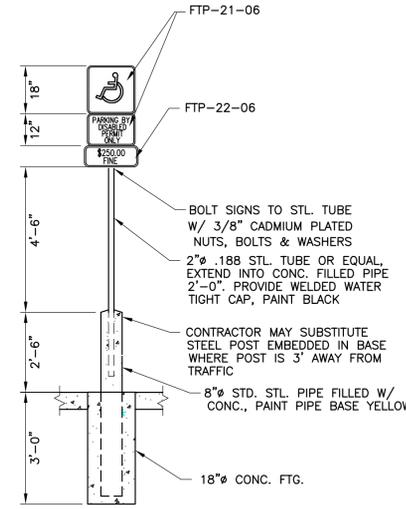
- SOIL UNDER ALL PAVED AREAS (FILL AND CUT SECTIONS) SHALL BE COMPACTED TO 98% MODIFIED PROCTOR BORROW MATERIAL. IF REQUIRED, IS TO BE PROVIDED BY THE CONTRACTOR AND SHALL HAVE A MINIMUM LBR VALUE OF 40.
- SOIL COMPACTION AND BASE INPLACE TESTING SHALL BE PERFORMED BY A CERTIFIED TESTING LAB AT THE EXPENSE OF THE CONTRACTOR. DENSITIES FOR FILL MATERIAL, BASE MATERIAL AND OTHER AREAS WITH REQUIRED PERCENT OF COMPACTION SHALL BE TAKEN AT THE RATE OF ONE PER LIFT (6" MAXIMUM COMPACTED THICKNESS) PER 300 SY.
- CONTRACTOR SHALL NOT PROCEED WITH PAVING UNTIL ENGINEER HAS OBSERVED PROOF ROLLING OF THE BASE AND ISSUED WRITTEN AUTHORIZATION TO PROCEED.



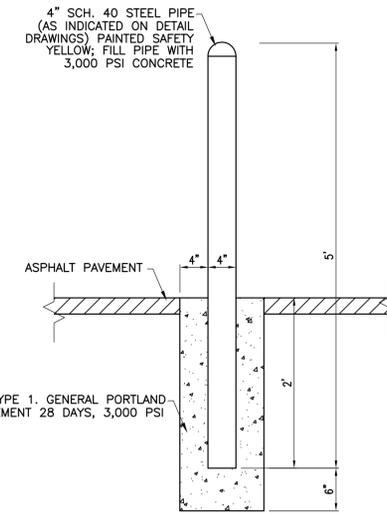
**ASPHALT PAVING DETAIL**  
N.T.S.



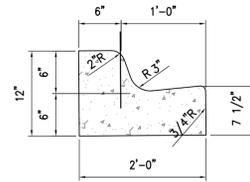
**PARKING SPACE DETAIL**  
SCALE: 1" = 5'



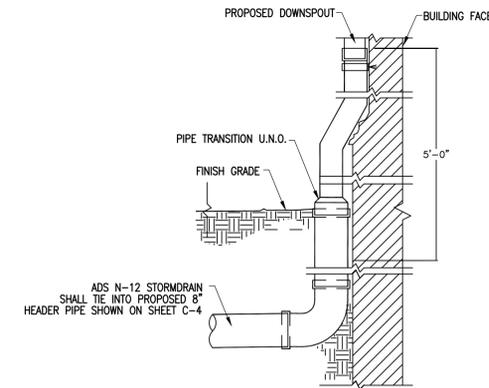
**ADA PARKING SIGN DETAIL**  
N.T.S.



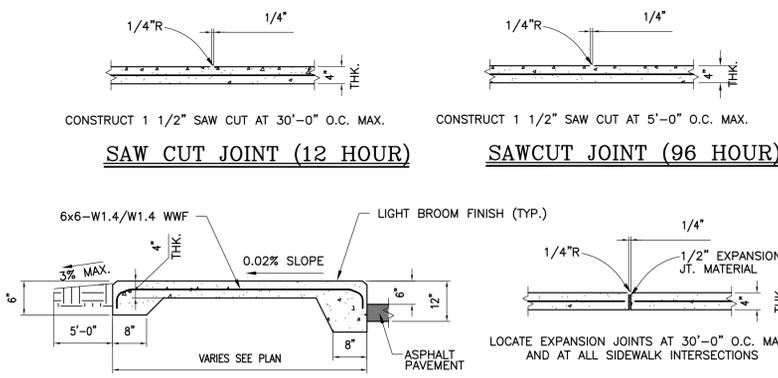
**BOLLARD POST DETAIL**  
SCALE: 1" = 2'-0"



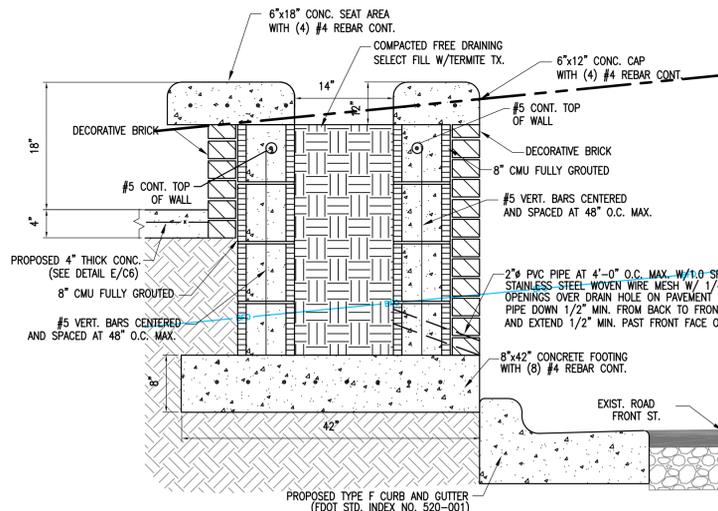
**TYPE F CURB**  
SCALE: 1" = 1'



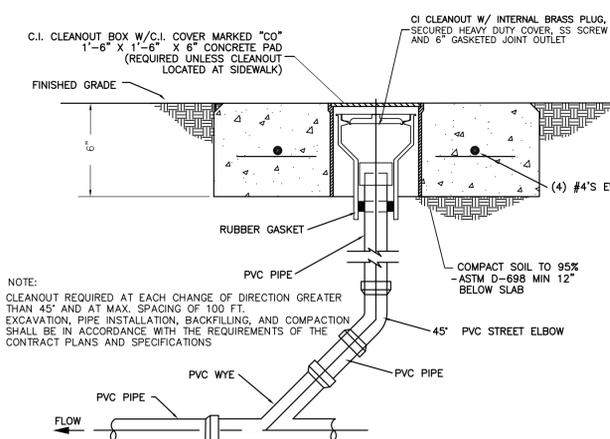
**TYP. DOWNSPOUT CONNECTION DETAIL**  
N.T.S.



**TYP. SIDEWALK SECTION**  
N.T.S.



**SEATING WALL/PLANTER DETAIL**  
SCALE: 1" = 1'-0"



**TYPICAL CLEAN-OUT DETAIL**  
N.T.S.

**DHM**  
MELVIN ENGINEERING  
EB-0005637 LC-0000277

MARIANNA OFFICE  
4428 Lafayette Street  
Marianna, FL 32446  
Phone: (850) 482-3045

TALLAHASSEE OFFICE  
2541-1 Barrington Circle  
Tallahassee, FL 32308  
Phone: (850) 671-7221

www.melvineng.com

Project Name: **HURRICANE MICHAEL RECOVERY PROJECTS**  
Client Name: **CITY OF COTTONDALE**

RELEASE RECORD

No.	Date	Description

DHM Project No: COT22HR  
DRAWN BY: MARY M. FARRIS  
CHECKED BY: DHM  
PROJECT ENGINEER: David H. Melvin, P.E.  
FL Registration No: FL38734

Sheet Title:  
**SITE DETAILS**

Drawing No: **C6**

Submital: 100% Bid Plans Date: 10-2025

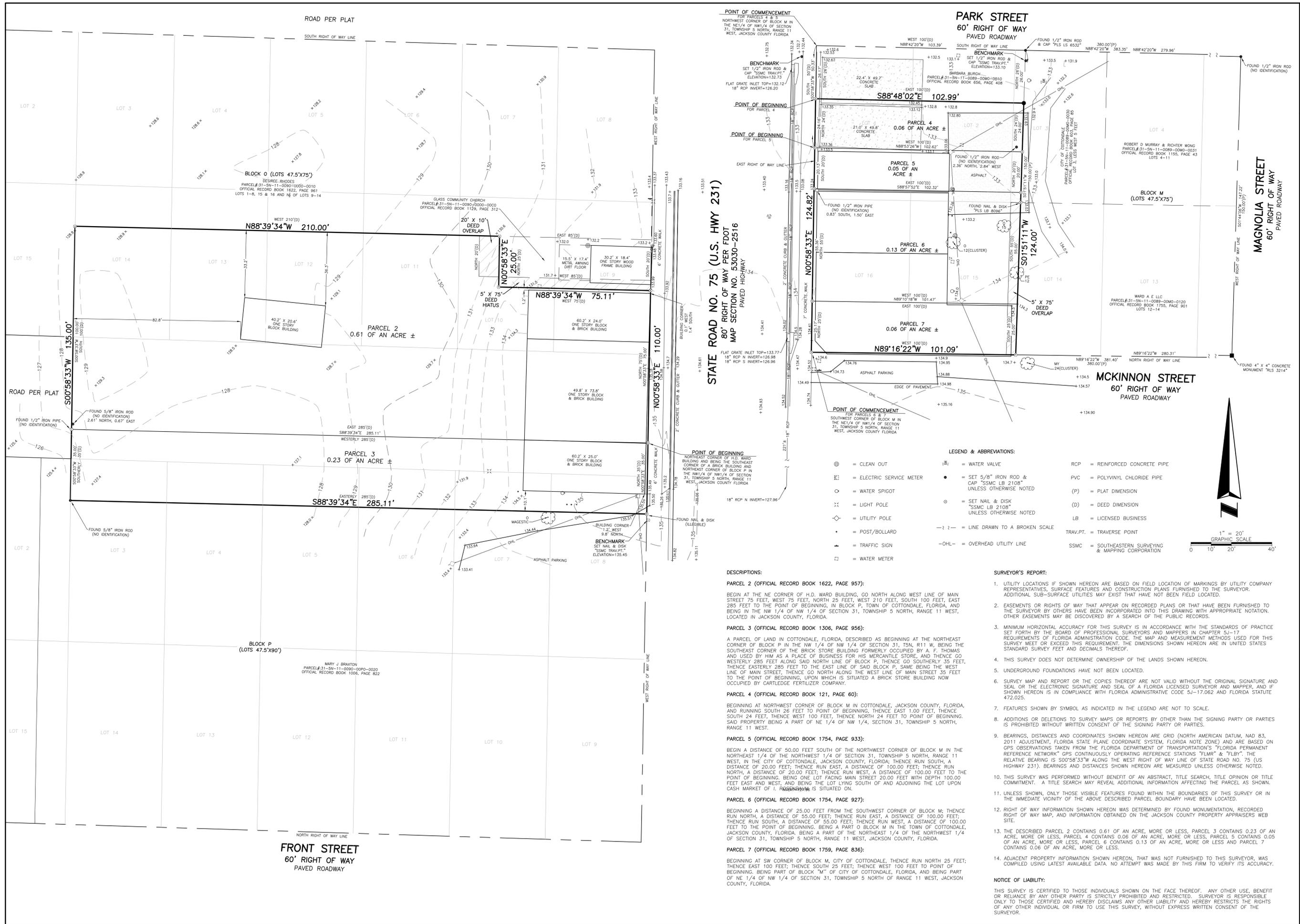
Not for Construction  
Released for Bid 10-2025

© DAVID H. MELVIN, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN PERMISSION OF DAVID H. MELVIN, INC.









- LEGEND & ABBREVIATIONS:**
- ⊙ = CLEAN OUT
  - ⊕ = ELECTRIC SERVICE METER
  - = WATER SPIGOT
  - ⊘ = LIGHT POLE
  - ◇ = UTILITY POLE
  - = POST/BOLLARD
  - ⊕ = TRAFFIC SIGN
  - ⊕ = WATER METER
  - ⊕ = WATER VALVE
  - = SET 1/2" IRON ROD & CAP "SSMC TRAV.P.T." UNLESS OTHERWISE NOTED
  - ⊕ = SET NAIL & DISK "SSMC LB 2108" UNLESS OTHERWISE NOTED
  - — = LINE DRAWN TO A BROKEN SCALE
  - OHL- = OVERHEAD UTILITY LINE
  - RCP = REINFORCED CONCRETE PIPE
  - PVC = POLYVINYL CHLORIDE PIPE
  - (P) = PLAT DIMENSION
  - (D) = DEED DIMENSION
  - LB = LICENSED BUSINESS
  - TRAV.P.T. = TRAVERSE POINT
  - SSMC = SOUTHEASTERN SURVEYING & MAPPING CORPORATION

**DESCRIPTIONS:**

**PARCEL 2 (OFFICIAL RECORD BOOK 1622, PAGE 957):**  
 BEGIN AT THE NE CORNER OF H.D. WARD BUILDING, GO NORTH ALONG WEST LINE OF MAIN STREET 75 FEET, WEST 75 FEET, NORTH 25 FEET, WEST 100 FEET, EAST 285 FEET TO THE POINT OF BEGINNING, IN BLOCK P, TOWN OF COTTONDALE, FLORIDA, AND BEING IN THE NW 1/4 OF NW 1/4 OF SECTION 31, TOWNSHIP 5 NORTH, RANGE 11 WEST, LOCATED IN JACKSON COUNTY, FLORIDA.

**PARCEL 3 (OFFICIAL RECORD BOOK 1306, PAGE 956):**  
 A PARCEL OF LAND IN COTTONDALE, FLORIDA, DESCRIBED AS BEGINNING AT THE NORTHEAST CORNER OF BLOCK P IN THE NW 1/4 OF SECTION 31, TSN, R11 W, BEING THE SOUTHEAST CORNER OF THE BRICK STORE BUILDING FORMERLY OCCUPIED BY A. F. THOMAS AND USED BY HIM AS A PLACE OF BUSINESS FOR HIS MERCANTILE STORE, AND THENCE GO WESTERLY 285 FEET ALONG SAID NORTH LINE OF BLOCK P, THENCE GO SOUTHERLY 35 FEET, THENCE EASTERLY 285 FEET TO THE EAST LINE OF SAID BLOCK P, SAME BEING THE WEST LINE OF MAIN STREET, THENCE GO NORTH ALONG THE WEST LINE OF MAIN STREET 35 FEET TO THE POINT OF BEGINNING, UPON WHICH IS SITUATED A BRICK STORE BUILDING NOW OCCUPIED BY CARLEIDGE FERTILIZER COMPANY.

**PARCEL 4 (OFFICIAL RECORD BOOK 121, PAGE 60):**  
 BEGINNING AT NORTHWEST CORNER OF BLOCK M IN COTTONDALE, JACKSON COUNTY, FLORIDA, AND RUNNING SOUTH 26 FEET TO POINT OF BEGINNING, THENCE EAST 1.00 FEET, THENCE SOUTH 24 FEET, THENCE WEST 100 FEET, THENCE NORTH 24 FEET TO POINT OF BEGINNING. SAID PROPERTY BEING A PART OF NE 1/4 OF NW 1/4, SECTION 31, TOWNSHIP 5 NORTH, RANGE 11 WEST.

**PARCEL 5 (OFFICIAL RECORD BOOK 1754, PAGE 933):**  
 BEGIN A DISTANCE OF 50.00 FEET SOUTH OF THE NORTHWEST CORNER OF BLOCK M IN THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 31, TOWNSHIP 5 NORTH, RANGE 11 WEST, IN THE CITY OF COTTONDALE, JACKSON COUNTY, FLORIDA; THENCE RUN SOUTH, A DISTANCE OF 20.00 FEET; THENCE RUN EAST, A DISTANCE OF 100.00 FEET; THENCE RUN NORTH, A DISTANCE OF 20.00 FEET; THENCE RUN WEST, A DISTANCE OF 100.00 FEET TO THE POINT OF BEGINNING; BEING ONE LOT FACING MAIN STREET 20.00 FEET WITH DEPTH 100.00 FEET EAST AND WEST, AND BEING THE LOT LYING SOUTH OF AND ADJOINING THE LOT UPON CASH MARKET OF I. ROSENBERG IS SITUATED ON.

**PARCEL 6 (OFFICIAL RECORD BOOK 1754, PAGE 927):**  
 BEGINNING A DISTANCE OF 25.00 FEET FROM THE SOUTHWEST CORNER OF BLOCK M; THENCE RUN NORTH, A DISTANCE OF 55.00 FEET; THENCE RUN EAST, A DISTANCE OF 100.00 FEET; THENCE RUN SOUTH, A DISTANCE OF 55.00 FEET; THENCE RUN WEST, A DISTANCE OF 100.00 FEET TO THE POINT OF BEGINNING, BEING A PART OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 31, TOWNSHIP 5 NORTH, RANGE 11 WEST, JACKSON COUNTY, FLORIDA.

**PARCEL 7 (OFFICIAL RECORD BOOK 1759, PAGE 836):**  
 BEGINNING AT SW CORNER OF BLOCK M, CITY OF COTTONDALE, THENCE RUN NORTH 25 FEET; THENCE EAST 100 FEET; THENCE SOUTH 25 FEET; THENCE WEST 100 FEET TO POINT OF BEGINNING, BEING PART OF BLOCK "M" OF CITY OF COTTONDALE, FLORIDA, AND BEING PART OF NE 1/4 OF NW 1/4 OF SECTION 31, TOWNSHIP 5 NORTH OF RANGE 11 WEST, JACKSON COUNTY, FLORIDA.

**SURVEYOR'S REPORT:**

- UTILITY LOCATIONS IF SHOWN HEREON ARE BASED ON FIELD LOCATION OF MARKINGS BY UTILITY COMPANY REPRESENTATIVES, SURFACE FEATURES AND CONSTRUCTION PLANS FURNISHED TO THE SURVEYOR. ADDITIONAL SUB-SURFACE UTILITIES MAY EXIST THAT HAVE NOT BEEN FIELD LOCATED.
- EASEMENTS OR RIGHTS OF WAY THAT APPEAR ON RECORDED PLANS OR THAT HAVE BEEN FURNISHED TO THE SURVEYOR BY OTHERS HAVE BEEN INCORPORATED INTO THIS DRAWING WITH APPROPRIATE NOTATION. OTHER EASEMENTS MAY BE DISCOVERED BY A SEARCH OF THE PUBLIC RECORDS.
- MINIMUM HORIZONTAL ACCURACY FOR THIS SURVEY IS IN ACCORDANCE WITH THE STANDARDS OF PRACTICE SET FORTH BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17 REQUIREMENTS OF FLORIDA ADMINISTRATION CODE. THE MAP AND MEASUREMENT METHODS USED FOR THIS SURVEY MEET OR EXCEED THIS REQUIREMENT. THE DIMENSIONS SHOWN HEREON ARE IN UNITED STATES STANDARD SURVEY FEET AND DECIMALS THEREOF.
- THIS SURVEY DOES NOT DETERMINE OWNERSHIP OF THE LANDS SHOWN HEREON.
- UNDERGROUND FOUNDATIONS HAVE NOT BEEN LOCATED.
- SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OR THE ELECTRONIC SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER, AND IF SHOWN HEREON IS IN COMPLIANCE WITH FLORIDA ADMINISTRATIVE CODE 5J-17.062 AND FLORIDA STATUTE 472.025.
- FEATURES SHOWN BY SYMBOL AS INDICATED IN THE LEGEND ARE NOT TO SCALE.
- ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- BEARINGS, DISTANCES AND COORDINATES SHOWN HEREON ARE GRID (NORTH AMERICAN DATUM, NAD 83, 2011 ADJUSTMENT, FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA NOTE ZONE) AND ARE BASED ON GPS OBSERVATIONS TAKEN FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION'S "FLMRT" & "FLRT" REFERENCE NETWORK. GPS CONTINUOUSLY OPERATING REFERENCE STATIONS "FLMRT" & "FLRT". THE RELATIVE BEARING IS S00°58'33"W ALONG THE WEST RIGHT OF WAY LINE OF STATE ROAD NO. 75 (US HIGHWAY 231). BEARINGS AND DISTANCES SHOWN HEREON ARE MEASURED UNLESS OTHERWISE NOTED.
- THIS SURVEY WAS PERFORMED WITHOUT BENEFIT OF AN ABSTRACT, TITLE SEARCH, TITLE OPINION OR TITLE COMMITMENT. A TITLE SEARCH MAY REVEAL ADDITIONAL INFORMATION AFFECTING THE PARCEL AS SHOWN.
- UNLESS SHOWN, ONLY THOSE VISIBLE FEATURES FOUND WITHIN THE BOUNDARIES OF THIS SURVEY OR IN THE IMMEDIATE VICINITY OF THE ABOVE DESCRIBED PARCEL BOUNDARY HAVE BEEN LOCATED.
- RIGHT OF WAY INFORMATION SHOWN HEREON WAS DETERMINED BY FOUND MONUMENTATION, RECORDED RIGHT OF WAY MAP, AND INFORMATION OBTAINED ON THE JACKSON COUNTY PROPERTY APPRAISERS WEB SITE.
- THE DESCRIBED PARCEL 2 CONTAINS 0.61 OF AN ACRE, MORE OR LESS, PARCEL 3 CONTAINS 0.23 OF AN ACRE, MORE OR LESS, PARCEL 4 CONTAINS 0.06 OF AN ACRE, MORE OR LESS, PARCEL 5 CONTAINS 0.05 OF AN ACRE, MORE OR LESS, PARCEL 6 CONTAINS 0.13 OF AN ACRE, MORE OR LESS AND PARCEL 7 CONTAINS 0.06 OF AN ACRE, MORE OR LESS.
- ADJACENT PROPERTY INFORMATION SHOWN HEREON, THAT WAS NOT FURNISHED TO THIS SURVEYOR, WAS COMPILED USING LATEST AVAILABLE DATA. NO ATTEMPT WAS MADE BY THIS FIRM TO VERIFY ITS ACCURACY.

**NOTICE OF LIABILITY:**  
 THIS SURVEY IS CERTIFIED TO THOSE INDIVIDUALS SHOWN ON THE FACE THEREOF. ANY OTHER USE, BENEFIT OR RELIANCE BY ANY OTHER PARTY IS STRICTLY PROHIBITED AND RESTRICTED. SURVEYOR IS RESPONSIBLE ONLY TO THOSE CERTIFIED AND HEREBY DISCLAIMS ANY OTHER LIABILITY AND HEREBY RESTRICTS THE RIGHTS OF ANY OTHER INDIVIDUAL OR FIRM TO USE THIS SURVEY, WITHOUT EXPRESS WRITTEN CONSENT OF THE SURVEYOR.

**SSMC**  
 SUE • SURVEY • GIS

**SOUTHEASTERN SURVEYING AND MAPPING CORPORATION**  
 32498 Chipley, Florida  
 (850) 638-0790  
 e-mail: info@southesternsurveying.com  
 Certification Number: 182106

REVISION	BY
REVISION DATE	BY

**BOUNDARY & TOPOGRAPHIC SURVEY**

**MAIN STREET**

**COTTONDALE, FLORIDA**

Project: **DHM, MELVIN ENGINEERING**

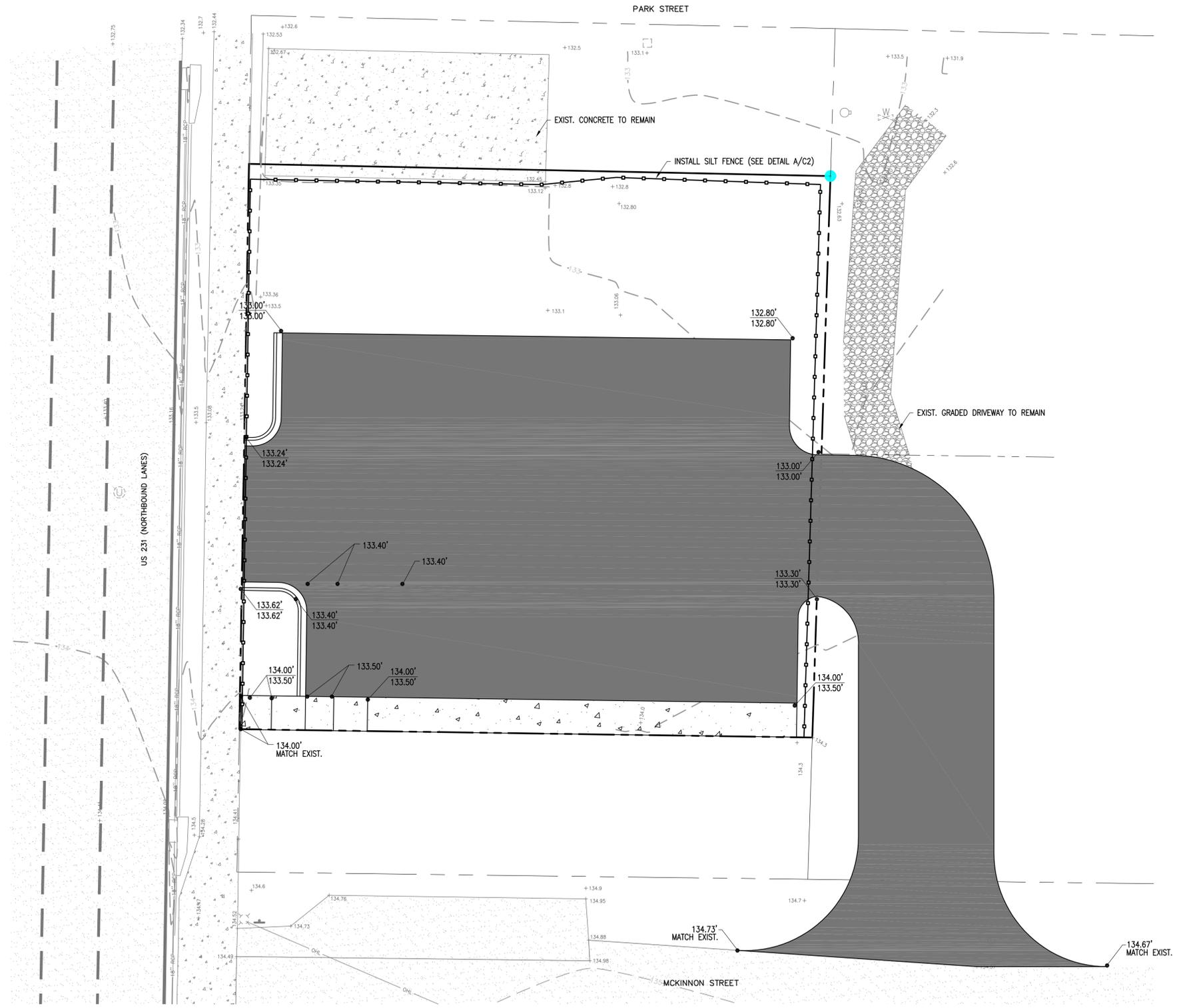
Field Date: 10/16/2023  
 Drawn By: A. ECKLES  
 Scale: 1" = 20'

SHEET NUMBER 2 OF 2  
 NOT VALID WITHOUT SHEETS 1 THROUGH 2

**DRAWING NUMBER**  
**70001001**  
**SHEET NUMBER**  
**2 OF 2**



© DAVID H. MELVIN, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN PERMISSION OF DAVID H. MELVIN, INC.



**GRADING AND DRAINAGE PLAN**

1" = 20'

**LEGEND**

- PROPERTY BOUNDARY
- EXISTING ASPHALT AREA
- EXISTING CONCRETE
- EXIST. OVERHEAD ELECTRIC
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED OVERHEAD ELECTRIC
- EXISTING CONTOURS
- PROPOSED SPOT ELEVATION
- PROPOSED SILT FENCE

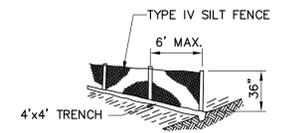


**CONSTRUCTION NOTES:**

1. ENGINEER SHALL PROVIDE CONTRACTOR WITH ELECTRONIC FILE FOR SITE STAKEOUT. CONTRACTOR SHALL VERIFY ALL LAYOUT FEATURES PRIOR TO INSTALLATION OF IMPROVEMENTS. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS OR AMBIGUITY. THE CONTRACTOR SHALL UTILIZE REGISTERED SURVEYOR FOR LAYOUT OF ALL SITE IMPROVEMENTS.
2. UNLESS OTHERWISE INDICATED OR MODIFIED ON THE PLANS OR IN THE SPECIFICATIONS, THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD CONSTRUCTION SHALL BE THE GOVERNING SPECIFICATIONS FOR CONSTRUCTION MATERIAL AND SITE WORK.
3. WHERE REFERENCE IS MADE TO A STANDARD INDEX OR DETAIL, THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD CONSTRUCTION SHALL BE USED AS IF A PART OF THIS PLAN.
4. PRIOR TO COMMENCING CONSTRUCTION IN ANY CITY, OR STATE RIGHT-OF-WAY OR EASEMENT, THE CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING PRIVATE AND PUBLIC UTILITIES. THE CONTRACTOR SHALL ALSO COORDINATE WITH THE APPROPRIATE UTILITY PROVIDER FOR ANY NECESSARY UTILITY RELOCATION'S REQUIRED TO IMPLEMENT THE PROPOSED PLAN. ANY REQUIRED UTILITY RELOCATION WORK SHALL BE INCLUDED IN THE CONSTRUCTION BID.
5. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
6. EXISTING SURVEY ELEVATION INFORMATION WAS OBTAINED FROM SOUTHEASTERN SURVEYING AND MAPPING, CORP. IF ANY DISCREPANCIES ARE FOUND DURING CONSTRUCTION WITH EXISTING ELEVATION INFORMATION THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION PRIOR TO ANY FURTHER CONSTRUCTION OR INSTALLATION OF IMPROVEMENTS.
7. CONTRACTOR SHALL SOD ALL DISTURBED AREA AND RE-GRADE SMOOTH ALL AREAS WITHIN MCKINNON STREET RIGHT-OF-WAY (350 SF OF SOD) AND ON-SITE AREAS (4,100 SF). THE REMAINDER OF THE DISTURBED AREA SHALL BE SEEDED AND MULCHED TO ENSURE STABILITY AND PROHIBIT EROSION.
8. CONTRACTOR SHALL NOTIFY ENGINEER FOR SITE VISIT AND CONFIRMATION OF GRADE STAKING PRIOR TO INSTALLATION OF ANY STRUCTURE, CONCRETE OR ASPHALT.
9. GRADING AND ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE. THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN ONE UNIT VERTICAL IN 20 UNITS HORIZONTAL (5-PERCENT SLOPE) FOR A MINIMUM DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE WALL. IF PHYSICAL OBSTRUCTIONS OR LOT LINES PROHIBIT 10 FEET OF HORIZONTAL DISTANCE, A 5-PERCENT SLOPE SHALL BE PROVIDED TO AN APPROVED ALTERNATIVE METHOD OF DIVERTING WATER AWAY FROM THE FOUNDATION. SWALES USED FOR THIS PURPOSE SHALL BE SLOPED A MINIMUM OF 2-PERCENT WHERE LOCATED WITHIN 10 FEET OF THE BUILDING FOUNDATION. IMPERVIOUS SURFACES WITHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MINIMUM OF 2-PERCENT AWAY FROM THE BUILDING.

**CONSTRUCTION SEQUENCE:**

1. ALL PERMITS (TOWN & NWFMD) MUST BE OBTAINED PRIOR TO ANY CONSTRUCTION COMMENCEMENT AND KEPT ON-SITE DURING CONSTRUCTION UNTIL COMPLETION OF PROJECT.
2. THE CONTRACTOR SHALL REQUEST AN ON-SITE PRE-CONSTRUCTION MEETING WITH THE PROJECT ENGINEER PRIOR TO ANY CONSTRUCTION ACTIVITY.
3. CONSTRUCT SEDIMENTATION/EROSION CONTROLS AND THEN CLEARLY "FLAG" THE LIMITS OF CLEARING. CONSTRUCTION ACTIVITY SHALL NOT COMMENCE UNTIL THE SEDIMENT CONTROLS HAVE BEEN INSPECTED AND APPROVED. THE CONTRACTOR SHALL CONTACT CITY REPRESENTATIVE TO INSPECT SAID SEDIMENT/EROSION CONTROLS PRIOR TO CONSTRUCTION ACTIVITY.
4. CLEAR THE REMAINING PORTION OF THE SITE AND CREATE DIVERSION CHANNELS TO DIRECT THE FLOW. WHERE NEEDED, CHECK DAMS CONSTRUCTED OF HAY BALES SHALL BE USED TO TRAP SEDIMENT.
5. CONSTRUCT SITE IMPROVEMENTS IN ACCORDANCE WITH THE APPROVED PLANS.
6. SOD OR SEED ALL REMAINING DISTURBED AREAS.
7. CONTACT PROJECT ENGINEER FOR INSPECTION OF SITE DURING CONSTRUCTION.
8. PRIOR TO THE REMOVAL OF ANY EXCAVATED MATERIAL FROM THE SITE THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE LOCATION OF ALL PROPOSED DISPOSAL SITES. ALL DISPOSAL SITES SHALL BE PROPERLY PERMITTED AND APPROVED TO RECEIVE THE EXCAVATED MATERIALS. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL OF THE ALLOWABLE DISPOSAL SITES FROM THE ENGINEER PRIOR TO THE REMOVAL OF ANY EXCAVATED MATERIALS.
9. OBTAIN FINAL APPROVAL FROM THE ENGINEER AND OWNER. CONTRACTOR SHALL REPAIR/REPLACE/RECONSTRUCT AT NO EXTRA COST ANY RELATED ITEMS TO THE STORMWATER CONVEYANCE SYSTEM THAT ARE FOUND TO BE IN NON-COMPLIANCE WITH THE PERMITTED PLANS.



**SILT FENCE DETAIL**  
N.T.S.



MARIANNA OFFICE  
4428 Lafayette Street  
Marianna, FL 32446  
Phone: (850) 482-3045

TALLAHASSEE OFFICE  
2541-1 Barrington Circle  
Tallahassee, FL 32308  
Phone: (850) 671-7221

www.melvineng.com

Project Name: **HURRICANE MICHAEL RECOVERY PROJECTS**  
Client Name: **CITY OF COTTONDALE**

RELEASE RECORD

No.	Date	Description

DHM Project No: COT22HR  
DRAWN BY: MARY M. FARRIS  
CHECKED BY: DHM  
PROJECT ENGINEER:  
David H. Melvin, P.E.  
FL Registration No: FL38734

Seal:

Sheet Title:  
**GRADING AND DRAINAGE PLAN**

Drawing No:  
**C8**

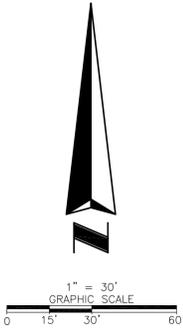
Submittal: 100% Bid Plans Date: 10-2025

Not for Construction  
X Released for Bid 10-2025









STATE ROAD NO. 75  
(U.S. HWY 231)  
RIGHT OF WAY VARIES PER FDOT  
MAP SECTION NO. 53030-2516  
PAVED HIGHWAY

POINT OF COMMENCEMENT  
NORTHWEST CORNER OF SW 1/4 OF SECTION 30, TOWNSHIP 5 NORTH, RANGE 11 WEST, JACKSON COUNTY FLORIDA  
FOUND 2" IRON PIPE (NO IDENTIFICATION)

POINT OF COMMENCEMENT  
NORTHWEST CORNER OF NE 1/4 OF SW 1/4 OF SECTION 30, TOWNSHIP 5 NORTH, RANGE 11 WEST, JACKSON COUNTY FLORIDA

POINT OF BEGINNING  
INTERSECTION OF SOUTH LINE OF E 1/2 OF NW 1/4 OF SECTION 30, TOWNSHIP 5 NORTH, RANGE 11 WEST, JACKSON COUNTY FLORIDA WITH THE EAST RIGHT OF WAY LINE OF STATE ROAD 75 (U.S. HWY. 231)



- LEGEND & ABBREVIATIONS:**
- ☐ = TELEPHONE PEDESTAL
  - = GUY ANCHOR
  - = WATER SPIGOT
  - ◇ = UTILITY POLE
  - ◆ = TRAFFIC SIGN
  - = WATER METER
  - ⊕ = WATER VALVE
  - = SET 5/8" IRON ROD & CAP "SSMC LB 2108" UNLESS OTHERWISE NOTED
  - ⊙ = SET NAIL & DISK "SSMC LB 2108" UNLESS OTHERWISE NOTED
  - ? — = LINE DRAWN TO A BROKEN SCALE
  - OHL- = OVERHEAD UTILITY LINE
  - PVC = POLYVINYL CHLORIDE PIPE
  - HDPE = HIGH DENSITY POLYETHYLENE PIPE
  - (C) = CALCULATED DIMENSION
  - (D) = DEED DIMENSION
  - LB = LICENSED BUSINESS
  - PSM = PROFESSIONAL SURVEYOR AND MAPPER
  - TRAV.PT. = TRAVERSE POINT
  - SSMC = SOUTHEASTERN SURVEYING & MAPPING CORPORATION

**DESCRIPTION:**

**PARCEL 1 (OFFICIAL RECORD BOOK 758, PAGE 766):**  
A LOT IN THE TOWN OF COTTONDALE DESCRIBED AS FOLLOWS: BEGINNING AT A POINT 33 FEET EAST OF NW CORNER OF NE 1/4 OF THE SW 1/4 OF SECTION 30, TOWNSHIP 5 NORTH, RANGE 11 WEST, RUN EAST ALONG THE 1/2 SECTION LINE 430 FEET, THENCE RUN SOUTH 224 FEET, THENCE RUN WEST 257.5 FEET, THENCE RUN NORTH 74 FEET, THEN RUN WEST 173 FEET, THENCE RUN NORTH 150 FEET TO THE POINT OF BEGINNING.  
BEGINNING AT THE INTERSECTION OF THE SOUTH LINE OF THE E 1/2 OF THE NW 1/4 OF SECTION 30, TOWNSHIP 5 NORTH, RANGE 11 WEST AND THE CURVING EAST R/W LINE OF STATE ROAD 75 (U.S. HWY. 231), THENCE SOUTH 87 DEGREES 43 MINUTES 30 SECONDS EAST ALONG THE SOUTH LINE OF SAID NW 1/4, 420.51 FEET, THENCE NORTH 02 DEGREES 16 MINUTES 30 SECONDS EAST 271.90 FEET, THENCE SOUTH 88 DEGREES 19 MINUTES 10 SECONDS WEST 396.05 FEET TO SAID EAST R/W LINE OF STATE ROAD 75, THENCE SOUTHERLY ALONG SAID CURVING R/W LINE (THE CHORD BEING SOUTH 08 DEGREES 13 MINUTES 10 SECONDS WEST 245.65 FEET), TO THE POINT OF BEGINNING.

LESS AND EXCEPT ROAD RIGHT OF WAY AS DESCRIBED IN OR BOOK 440, AT PAGE 667, PUBLIC RECORDS OF JACKSON COUNTY, FLORIDA.

**SURVEYOR'S REPORT:**

1. UTILITY LOCATIONS IF SHOWN HEREON ARE BASED ON FIELD LOCATION OF MARKINGS BY UTILITY COMPANY REPRESENTATIVES. SURFACE FEATURES AND CONSTRUCTION PLANS FURNISHED TO THE SURVEYOR. ADDITIONAL SUB-SURFACE UTILITIES MAY EXIST THAT HAVE NOT BEEN FIELD LOCATED.
2. EASEMENTS OR RIGHTS OF WAY THAT APPEAR ON RECORDED PLANS OR THAT HAVE BEEN FURNISHED TO THE SURVEYOR BY OTHERS HAVE BEEN INCORPORATED INTO THIS DRAWING WITH APPROPRIATE NOTATION. OTHER EASEMENTS MAY BE DISCOVERED BY A SEARCH OF THE PUBLIC RECORDS.
3. MINIMUM HORIZONTAL ACCURACY FOR THIS SURVEY IS IN ACCORDANCE WITH THE STANDARDS OF PRACTICE SET FORTH BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17 REQUIREMENTS OF FLORIDA ADMINISTRATION CODE. THE MAP AND MEASUREMENT METHODS USED FOR THIS SURVEY MEET OR EXCEED THIS REQUIREMENT. THE DIMENSIONS SHOWN HEREON ARE IN UNITED STATES STANDARD SURVEY FEET AND DECIMALS THEREOF.
4. THIS SURVEY DOES NOT DETERMINE OWNERSHIP OF THE LANDS SHOWN HEREON.
5. UNDERGROUND FOUNDATIONS HAVE NOT BEEN LOCATED.
6. SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OR THE ELECTRONIC SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER, AND IF SHOWN HEREON IS IN COMPLIANCE WITH FLORIDA ADMINISTRATIVE CODE 5J-17.062 AND FLORIDA STATUTE 472.025.
7. FEATURES SHOWN BY SYMBOL AS INDICATED IN THE LEGEND ARE NOT TO SCALE.
8. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
9. BEARINGS, DISTANCES AND COORDINATES SHOWN HEREON ARE GRID (NORTH AMERICAN DATUM, NAD 83, 2011 ADJUSTMENT, FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA NOTE ZONE) AND ARE BASED ON GPS OBSERVATIONS TAKEN FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION'S "FLORIDA PERMANENT REFERENCE NETWORK" GPS CONTINUOUSLY OPERATING REFERENCE STATIONS "FLMR" & "FLBY". THE RELATIVE BEARING IS N89°52'14"W ALONG THE NORTH RIGHT OF WAY LINE OF HICKORY STREET. BEARINGS AND DISTANCES SHOWN HEREON ARE MEASURED UNLESS OTHERWISE NOTED.
10. VERTICAL INFORMATION SHOWN HEREON REFERS TO FLORIDA DEPARTMENT OF TRANSPORTATION VERTICAL CONTROL STATIONS: "53-07-C02V", BEING A 4"x4" CONCRETE MONUMENT WITH ALUMINUM DISK, ELEVATION = 135.08' (NAVD88), AND "53-16-A01V", BEING A 4"x4" CONCRETE MONUMENT WITH ALUMINUM DISK, ELEVATION = 143.20' (NAVD88). THE CONTOUR INTERVAL IS ONE FOOT.
11. THIS SURVEY WAS PERFORMED WITHOUT BENEFIT OF AN ABSTRACT, TITLE SEARCH, TITLE OPINION OR TITLE COMMITMENT. A TITLE SEARCH MAY REVEAL ADDITIONAL INFORMATION AFFECTING THE PARCEL AS SHOWN.
12. UNLESS SHOWN, ONLY THOSE VISIBLE FEATURES FOUND WITHIN THE BOUNDARIES OF THIS SURVEY OR IN THE IMMEDIATE VICINITY OF THE ABOVE DESCRIBED PARCEL BOUNDARY HAVE BEEN LOCATED.
13. RIGHT OF WAY INFORMATION SHOWN HEREON WAS DETERMINED BY FOUND MONUMENTATION, RECORDED RIGHT OF WAY MAP, AND INFORMATION OBTAINED ON THE JACKSON COUNTY PROPERTY APPRAISERS WEB SITE.
14. THE ABOVE DESCRIBED PARCEL 1 CONTAINS 3.49 ACRES, MORE OR LESS.
15. ADJACENT PROPERTY INFORMATION SHOWN HEREON, THAT WAS NOT FURNISHED TO THIS SURVEYOR, WAS COMPILED USING LATEST AVAILABLE DATA. NO ATTEMPT WAS MADE BY THIS FIRM TO VERIFY ITS ACCURACY.

**NOTICE OF LIABILITY:**

THIS SURVEY IS CERTIFIED TO THOSE INDIVIDUALS SHOWN ON THE FACE THEREOF. ANY OTHER USE, BENEFIT OR RELIANCE BY ANY OTHER PARTY IS STRICTLY PROHIBITED AND RESTRICTED. SURVEYOR IS RESPONSIBLE ONLY TO THOSE CERTIFIED AND HEREBY DISCLAIMS ANY OTHER LIABILITY AND HEREBY RESTRICTS THE RIGHTS OF ANY OTHER INDIVIDUAL OR FIRM TO USE THIS SURVEY, WITHOUT EXPRESS WRITTEN CONSENT OF THE SURVEYOR.

**CURVE TABLE**

CURVE #	RADIUS	DELTA	LENGTH	CHORD BEARING	CHORD DISTANCE
C1	2637.77'	4°21'21"	200.53'	S1°56'31"W	200.48'
C2	1380.04'	1°44'10"	41.82'	S9°25'14"W	41.82'
C3	9719.08'	0°01'42"	4.79'	S9°50'10"W	4.79'
C4	9719.08'	0°45'05"	127.47'	S10°13'34"W	127.47'
C5	1413.04'	8°04'47"	199.26'	S3°48'13"W	199.10'
C6	1413.04'	0°16'03"	6.60'	S7°58'39"W	6.60'

**CURVE TABLE (DEED)**

CURVE #	RADIUS	DELTA	LENGTH	CHORD BEARING	CHORD DISTANCE
C1	2637.77'	4°21'21"	200.53'	N/A	N/A
C4	9719.08'	0°45'06"	127.49'	S10°15'21"W	127.48'
C5	1413.04'	8°04'46"	199.26'	N/A	N/A
C6	1413.04'	0°16'03"	6.60'	N/A	N/A

**LINE TABLE**

LINE #	BEARING	LENGTH
L1	N00°14'09"W	29.93'
L2	S80°10'41"E	7.00'
L3	N10°28'03"E	6.14'
L4	N88°55'11"E	7.75'

**HICKORY STREET**  
60' RIGHT OF WAY  
PAVED ROADWAY

THOMAS R. MEAL, PSM  
Professional Surveyor  
Number: 182106

**SSMC**  
SUE • SURVEY • GIS

**SOUTHEASTERN SURVEYING AND MAPPING CORPORATION**  
Chiefland, Florida 32426  
(850) 638-0790  
e-mail: info@southesternsurveying.com  
Certification Number: 182106

BY	REVISION
REVISION DATE	

**BOUNDARY & TOPOGRAPHIC SURVEY**  
Project: **MAIN STREET**  
**COTTONDALE, FLORIDA**

D.H.M. MELVIN ENGINEERING

Field Date: 10/16/2023  
Drawn By: A. ECKLES  
Scale: 1" = 20'

SHEET NUMBER 1 OF 2  
NOT VALID WITHOUT SHEETS 1 THROUGH 2

**DRAWING NUMBER**  
**70001001**  
**SHEET NUMBER**  
**1 OF 2**

**DEVELOPMENT NOTES**

DEVELOPER: CITY OF COTTONDALE  
2659 FRONT STREET SUITE C  
COTTONDALE, FL 32431

ENGINEER: DAVID H. MELVIN, INC. CONSULTING ENGINEERS  
4428 LAFAYETTE STREET  
MARIANNA, FL 32446  
CONTACT: MARY-MARGARET FARRIS, EI  
(850) 482-3045

SURVEYOR: SOUTHEASTERN SURVEYING AND MAPPING  
1130 HWY 90  
CHIPLEY, FL 32428  
(850) 638-0790

**LEGEND**

- PROPERTY BOUNDARY
- EXISTING ASPHALT AREA
- EXISTING CONCRETE
- EXIST. OVERHEAD ELECTRIC
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED STORMWATER FACILITY
- PROPOSED FENCE

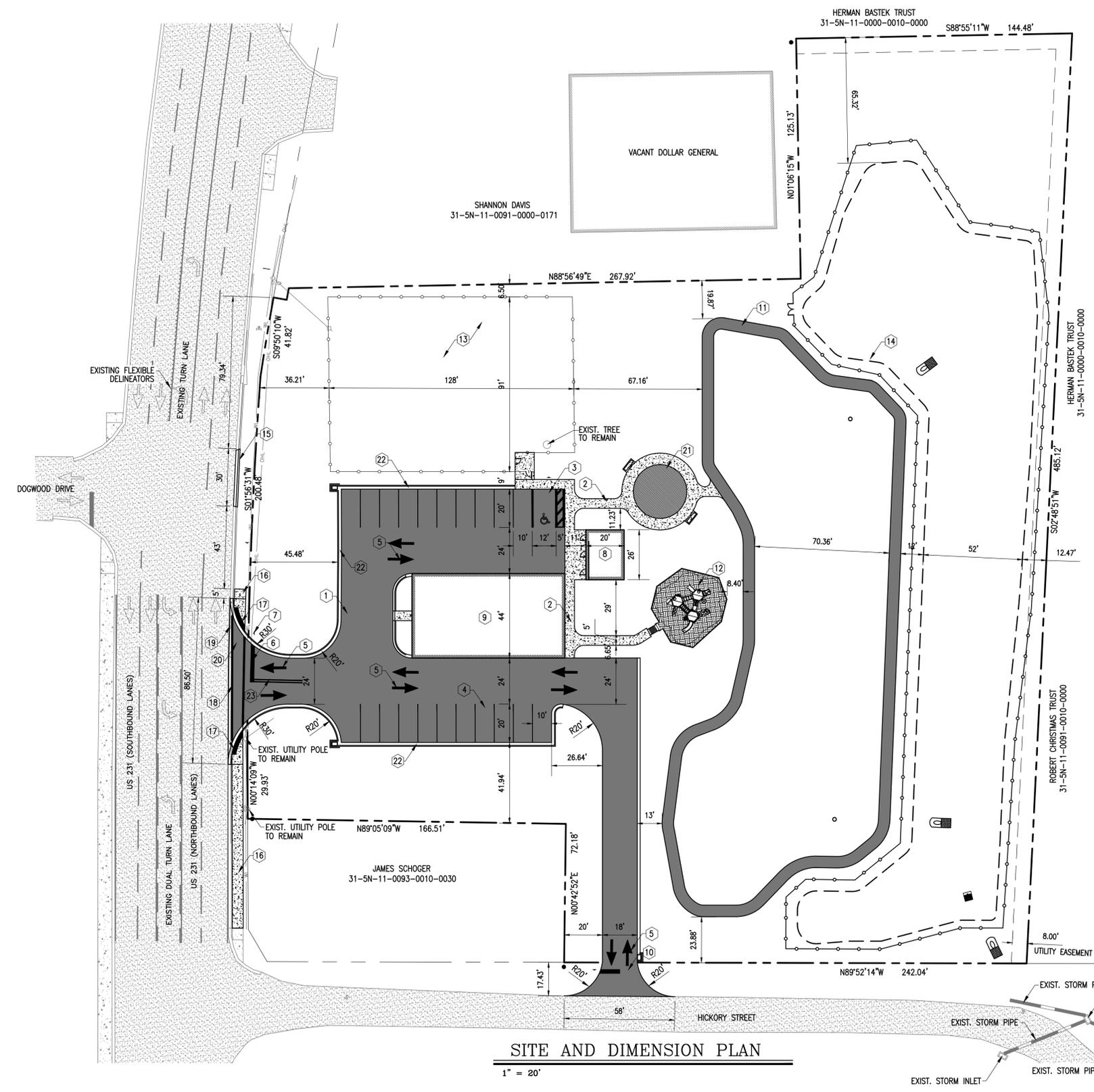


**SITE STATISTIC TABLE**

General Information		
Property Tax ID #(s):	31-5N-11-0091-0000-0170	
Site Address:	US 231	
Utilities:		
Water	City of Cottondale	
Sewer	City of Cottondale	
Electric	Florida Public Utilities	
Land Use:	Commercial	
Flood Zone:	12063C0275D, Zone X	
Site Data Table		
Total Parcel Area (SF):	148104 SF	3.4 AC
Existing Impervious Area:	6476 SF	4.4 %
Building Area (To Be Removed):	3964 SF	2.7 %
Asphalt Area (To Be Removed):	2512 SF	1.7 %
Proposed Impervious Area:	26486 SF	17.9 %
Asphalt Area:	20530 SF	13.9 %
Building Area:	4196 SF	64.8 %
Concrete Area:	1760 SF	44.4 %
Post Developed Net Impervious Area:	20010 SF	
Impervious Area Removed:	6476 SF	
Impervious Area Constructed:	26486 SF	
Parking Data		
Total Parking Spaces Provided:		22 Spaces
Regular Parking Spaces		21 Spaces
Handicap Parking Spaces (1 sp/25 reg sp)		1 Space

**SITE NOTES**

- 1 PROPOSED ASPHALT PAVEMENT (SEE DETAIL A/C15)
- 2 PROPOSED CONCRETE SIDEWALK (SEE DETAIL D/C15)
- 3 INSTALL HANDICAP PARKING SPACE (SEE DETAIL B/C15)
- 4 INSTALL REGULAR PARKING SPACE (SEE DETAIL B/C15)
- 5 INSTALL DIRECTIONAL PAVEMENT STRIPING (FDOT STD. INDEX NO. 711-001)
- 6 INSTALL 24" WIDE WHITE STOP BAR (THERMOPLASTIC)
- 7 INSTALL 36"x36" STOP SIGN (R1-1)
- 8 PROPOSED 26'x26' RESTROOM BUILDING (SEE ARCHITECTURAL FOR DETAILS)
- 9 PROPOSED 44'x80' PAVILION (SEE ARCHITECTURAL FOR DETAILS)
- 10 INSTALL ASPHALT FLARE DRIVEWAY (SEE DETAIL A/C15)
- 11 INSTALL 800 LF 6" WIDE ASPHALT WALKING TRAIL (SEE DETAIL D/C15)
- 12 PROPOSED PLAYGROUND STRUCTURE (BY OTHERS)
- 13 PROPOSED DOG PARK (TO INCLUDE 432 LF 4' TALL FENCE, (2) 4' PEDESTRIAN GATES, AND 10'x10'x4" CONCRETE PAD)
- 14 PROPOSED WET DETENTION STORMWATER MANAGEMENT FACILITY (SEE SHT. C3) AND 1,100 LF 4' TALL VINYL COATED CHAINLINK FENCE W/(2) 6' SWING GATES
- 15 INSTALL TYPE F CURB & GUTTER (FDOT STD. INDEX NO. 520-001)
- 16 INSTALL 6" WIDE CONCRETE SIDEWALK (FDOT STD. INDEX NO. 522-001)
- 17 INSTALL DETECTABLE WARNING STRIP (FDOT STD. INDEX NO. 522-002)
- 18 INSTALL 12" WHITE PEDESTRIAN CROSS-WALK STRIPING-THERMOPLASTIC (FDOT STD. INDEX NO. 711-001)
- 19 INSTALL DROP CURB (FDOT STD. INDEX NO. 520-001)
- 20 INSTALL PAVED DRIVEWAY (FDOT STD. INDEX NO. 330-001)
- 21 INSTALL SPLASH PAD
- 22 INSTALL CURB & GUTTER (SEE DETAIL E/C15)
- 23 INSTALL 25 LF 6" WIDE DOUBLE YELLOW STRIPING (FDOT STD. INDEX NO. 711-001)



**SITE AND DIMENSION PLAN**

1" = 20'

Project Name: HURRICANE MICHAEL RECOVERY PROJECTS  
Client Name: CITY OF COTTONDALE

RELEASE RECORD

No.	Date	Description

DHM Project No: COT22HR  
DRAWN BY: MARY M. FARRIS  
CHECKED BY: DHM  
PROJECT ENGINEER: David H. Melvin, P.E.  
FL Registration No: FL38734

Seal:

Sheet Title: **SITE AND DIMENSION PLAN**

Drawing No: **C11**

Submittal: 100% Bid Plans	Date: 10-2025
Not for Construction	
Released For Bid 10-2025	







1. INTRODUCTION

THIS DOCUMENT IS INTENDED TO PROVIDE GUIDANCE TO THE RESPONSIBLE AUTHORITY/OPERATOR FOR THE CREATION OF A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN COMPLIANCE WITH CHAPTER 62-621.500 (4) (F) OF THE FLORIDA ADMINISTRATIVE CODE...

THE INFORMATION CONTAINED HEREIN IS ORGANIZED TO CORRESPOND TO THE ITEMS OUTLINED IN PART 4 OF THE FDEP FORM 62-621.300(4)(a) 'GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES'...

2. SITE DESCRIPTION

COUNTY: JACKSON SECTION, TOWNSHIP, RANGE: 31, 5N, 11W

STREET ADDRESS: US 231 PROJECT AREA: 3.40-ACRES± SITE LOCATION MAP: REFER TO CONSTRUCTION PLANS

A. NATURE OF CONSTRUCTION ACTIVITY

THE PROJECT IS COMPRISED OF THE CONSTRUCTION OF A PAVILION, PARKING LOT, RESTROOM, SPLASH PAD, PLAYGROUND, WALKING TRAIL AND ON-SITE STORMWATER MANAGEMENT FACILITY FOR THE CITY OF COTTONDALE.

ANTICIPATED START DATE: DECEMBER 2025 ANTICIPATED COMPLETION DATE: MARCH 2027

THE START AND END DATES FOR EACH MAJOR CONSTRUCTION ACTIVITY SHALL BE INCLUDED WITH THE SWPPP. THE SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES OUTLINED BELOW IS PROVIDED AS A GENERAL GUIDELINE...

B. GENERAL SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES

- 1. PRIOR TO CONSTRUCTION, SILT FENCING AND TREE PROTECTION FENCING SHALL BE INSTALLED AND ALL EXISTING STORM DRAINAGE SWALE AND INLETS SHALL BE PROTECTED IN ACCORDANCE WITH THE PRACTICES DESCRIBED IN 'THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL'...

C. SITE AREA ESTIMATES AND RUNOFF DATA:

TOTAL PROJECT SITE AREA: 3.40-ACRES± TOTAL SITE AREA TO BE DISTURBED: 2.50-ACRES±

RUNOFF COEFFICIENTS:

PRE-DEVELOPMENT 'C' FACTOR: 0.68 POST-DEVELOPMENT 'C' FACTOR: 0.80

D. SOIL CONDITIONS AND STORMWATER QUALITY

THE NRCS DATA FOR THE SITE REVEALS THAT THE SITE SOILS ARE COMPRISED OF ORANGEBURG LOAMY SAND (SC-SM, SC). REFER TO THE GENERAL NOTES SHEET IN THE CONSTRUCTION PLANS FOR INFORMATION REGARDING THE GEOTECHNICAL INVESTIGATIONS FOR THE SITE.

E. SITE MAP

REFER TO CONSTRUCTION PLANS

F. STORMWATER OUTFALL LOCATION AND RECEIVING WATER BODY.

Table with 3 columns: OUTFALL ID#, LOCATION, RECEIVING WATERBODY. Row 1: S-1, 30°48'23"N 85°22'32"W, CHIPOLA RIVER

3. CONTROLS TO REDUCE POLLUTION

AS OUTLINED IN THE WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMIT (ERP), ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN A MANNER AS TO NOT VIOLATE STATE WATER QUALITY STANDARDS. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY, THE RESPONSIBLE AUTHORITY/OPERATOR SHALL IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES TO RETAIN SEDIMENT ON-SITE...

4. EROSION AND SEDIMENT CONTROLS

A. GENERAL STABILIZATION PRACTICES

EXISTING TREES AND NATURAL VEGETATION TO REMAIN ON-SITE SHALL BE PROTECTED BY TREE BARRICADE FENCING AS DEPICTED. TREE III SILT FENCING SHALL PROTECT ALL DRAINAGE STRUCTURES AND SHALL BUFFER AREAS WITH POTENTIAL TO CONTRIBUTE OFF-SITE RUNOFF AND AS SPECIFICALLY DEPICTED ON THE SWPPP. STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN SEVEN (7) DAYS OR AS REQUIRED BY THE PERMITTING AGENCY...

B. GENERAL STORM STRUCTURE PROTECTION PRACTICES

A STORMWATER MANAGEMENT SYSTEM WILL BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION PLANS AND WILL BE COMPRISED OF A WET DETENTION FACILITY AND A STORM PIPE CONVEYANCE SYSTEM. TO PREVENT EROSION DURING CONSTRUCTION, TREE III SILT FENCING IS TO BE INSTALLED IN THE LOCATIONS SHOWN WITHIN THE CONSTRUCTION PLANS AND THE SWPPP. ALL EXISTING AND PROPOSED STORM DRAINS AND DRAINAGE SWALES SHALL BE PROTECTED IN ACCORDANCE WITH THE MEASURES DETAILED IN THE SWPPP AND/OR THE 'STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL'...

C. DRAINAGE AREAS SERVING LESS THAN 10 DISTURBED ACRES

DRAINAGE AREAS THAT ARE COMPRISED OF 10 DISTURBED ACRES OR LESS ARE RECOMMENDED TO UTILIZE SEDIMENT BASINS AND/OR TRAPS IF THE AREA IS NOT SERVED BY A PERMANENT STORMWATER MANAGEMENT FACILITY. IF A PERMANENT STORMWATER MANAGEMENT FACILITY IS PROPOSED TO BE USED AS A SEDIMENT BASIN AND/OR TRAP, APPROPRIATE MEASURES SHALL BE TAKEN TO ENSURE REMOVAL OF ANY ACCUMULATED SEDIMENT OR DEBRIS TO ASSURE THE DESIGN CAPACITY OF THE FACILITY IS PROVIDED...

D. DRAINAGE AREAS SERVING MORE THAN 10 DISTURBED ACRES

DRAINAGE AREAS THAT ARE COMPRISED OF 10 DISTURBED ACRES OR MORE ARE REQUIRED TO UTILIZE SEDIMENT BASINS AND/OR TRAPS IF THE AREA IS NOT SERVED BY A PERMANENT STORMWATER MANAGEMENT FACILITY. IF A PERMANENT STORMWATER MANAGEMENT FACILITY IS PROPOSED TO BE USED AS A SEDIMENT BASIN AND/OR TRAP, APPROPRIATE MEASURES SHALL BE TAKEN TO ENSURE REMOVAL OF ANY ACCUMULATED SEDIMENT OR DEBRIS TO ASSURE THE DESIGN CAPACITY OF THE FACILITY IS PROVIDED...

5. STORMWATER MANAGEMENT PRACTICES

A. BEST MANAGEMENT PRACTICES

AFTER CONSTRUCTION, THE STORMWATER MANAGEMENT SYSTEM SHALL BE MAINTAINED IN ACCORDANCE WITH THE SPECIFIED STORMWATER MAINTENANCE NOTES IN THE INCLUDED CONSTRUCTION DRAWINGS AND/OR RESPECTIVE MAINTENANCE REPORTS. SPECIFICALLY, THE PROPOSED SMF(S) SHALL BE MOWED REGULARLY IN THE SPECIFIED AREAS; STORM PIPES AND STRUCTURES WILL BE INSPECTED SEMI-ANNUALLY AND CLEANED ANNUALLY.

B. VEGETATED SWALES

WHEN VEGETATED SWALES ARE UTILIZED, SILT FENCING OR EQUIVALENT SEDIMENT CONTROLS SHALL BE INSTALLED AT ADEQUATE INTERVALS TO COLLECT SEDIMENT ALONG THE SWALE. THE SEDIMENT SHALL BE REMOVED WHEN SEDIMENT REACHES ONE-THIRD OF THE HEIGHT OF THE SILT FENCING.

C. VELOCITY DISSIPATION DEVICES AT DISCHARGE POINTS

WHEN DISCHARGE POINTS ARE NOT LOCATED UNDER WATER, RIPRAP PADS HAVE BEEN PROVIDED AT LOCATIONS WHERE NECESSARY DUE TO ANTICIPATED DISCHARGE VELOCITIES. PLEASE SEE THE CONSTRUCTION PLANS FOR DETAILS AND LOCATIONS, AS NEEDED.

6. CONTROLS FOR OTHER POTENTIAL POLLUTANTS

A. WASTE DISPOSAL

DISPOSE OF ALL UNSUITABLE MATERIALS AND CONSTRUCTION DEBRIS IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS. THE METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE SPECIFIED IN THE SWPPP OR APPROVED BY THE ENGINEER: PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES; DISPOSE OF ALL FERTILIZERS OR OTHER CHEMICAL CONTAINERS TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER...

B. OFF-SITE VEHICLE TRACKING & DUST CONTROL

TO MINIMIZE OFF-SITE VEHICULAR TRACKING OF SEDIMENTS AND DUST GENERATION, A STABILIZED CONSTRUCTION ENTRANCE AND SOIL TRACKING PREVENTION DEVICE SHALL BE ESTABLISHED AT ALL CONSTRUCTION ENTRANCES. INCLUDE THE FOLLOWING METHODS IN ADDITION TO THOSE SPECIFIED IN THE SWPPP OR AS DIRECTED BY THE ENGINEER: COVER LOADED HAUL TRUCKS WITH TARPULINS, REMOVE EXCESS DIRT FROM ROADS DAILY, USE ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION OR MILLING OPERATIONS.

C. TEMPORARY POTABLE WATER AND SANITARY SEWER SYSTEMS

ENSURE THAT TEMPORARY/CONSTRUCTION POTABLE CONNECTIONS TO EXISTING PUBLIC WATER MAINS ARE INSTALLED IN ACCORDANCE WITH THE GOVERNING AUTHORITY/UTILITY OWNER'S REQUIREMENTS. IF TEMPORARY SANITARY SYSTEMS ARE UTILIZED DURING CONSTRUCTION, PROPERLY CONTROL AND DISCHARGE ANY SANITARY WASTE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

D. FERTILIZER & PESTICIDES

THE USE OF FERTILIZERS, HERBICIDES, AND PESTICIDES ON THE PROJECT SITE WILL BE DIRECTED BY THE LANDSCAPE PLAN AND TO SUPPORT THE GROWTH OF THE PROPOSED VEGETATION. ESTABLISHING THIS VEGETATION WILL AID IN THE STABILIZATION OF THE PROJECT SITE AND REDUCE EROSION. APPLICATION RATES FOR THE FERTILIZERS, HERBICIDES, AND PESTICIDES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO GUARD AGAINST OVERUSE, WHICH CAN LEAD TO VIOLATIONS OF STATE WATER QUALITY STANDARDS.

E. HAZARDOUS MATERIAL

THE SWPPP SHALL PROVIDE A LIST OF HAZARDOUS MATERIALS THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES. THE CONSTRUCTION SITE MUST BE IN COMPLIANCE WITH STATE (FDEP RULE CHAPTER 62-25 F.A.C.) AND FEDERAL REQUIREMENTS. IN ADDITION, THE CONSTRUCTION SITE SHALL BE ALSO BE IN COMPLIANCE WITH ALL APPLICABLE LOCAL CODES, ORDINANCES, OR REQUIREMENTS.

7. CHANGES TO THE STORMWATER POLLUTION PREVENTION PLAN

THE SWPPP SHALL BE AMENDED TO REFLECT ANY APPLICABLE CHANGES IN A STATE, REGIONAL, OR LOCAL PERMIT FOR WHICH THE RESPONSIBLE AUTHORITY/OPERATOR RECEIVES WRITTEN NOTICE. WHEN WRITTEN NOTICE IS RECEIVED, THE RESPONSIBLE AUTHORITY/OPERATOR SHALL PROVIDE A RE-CREATION OF THE SWPPP, WHICH HAS BEEN REVISED TO ADDRESS SUCH CHANGES. AMENDMENTS TO THE PLAN SHALL BE PREPARED, SIGNED, DATED, AND KEPT AS ATTACHMENTS TO THE ORIGINAL PLAN.

8. MAINTENANCE

THE SWPPP SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT THE DURATION OF THE PROJECT. THE MAINTENANCE PLAN SHOULD, AT A MINIMUM, THE SWPPP SHOULD COMPLY WITH THE FOLLOWING:

- A. SILT FENCE: MAINTAIN PER FDOT STANDARD SPECIFICATION SECTION 104. ANTICIPATE REPLACEMENT OF SILT FENCE ON 12 MONTH INTERVALS.
B. SEDIMENT BARRIERS: REMOVE SEDIMENT AS PER MANUFACTURE'S RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.
C. STORMWATER PONDS: REMOVE SEDIMENT FROM THE PONDS OR BASINS WHEN IT BECOMES 1.5' DEEP AT ANY POINT OR AS DIRECTED BY THE ENGINEER
D. IF REPAIRS ARE REQUIRED TO ANY OF THE EROSION AND SEDIMENT CONTROLS, IT SHALL BE INITIATED WITHIN 24 HOURS OF BEING REPORTED.

12. INSPECTIONS

INSPECTION OF THE PROJECT SITE AND SEDIMENT & EROSION CONTROLS SHALL BE DONE IN ACCORDANCE WITH THE SWPPP. AT A MINIMUM, QUALIFIED PERSONNEL SHALL INSPECT ITEMS A - G AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF STORM EVENT THAT IS 0.50 INCHES OR GREATER. IN ORDER TO ENSURE COMPLIANCE, RAIN GAUGE(S) SHALL BE INSTALLED AND MAINTAINED AT THE PROJECT SITE TO RECORD THE DAILY RAINFALL AMOUNTS. IN PORTIONS OF THE PROJECT WHERE PERMANENT STABILIZATION HAS BEEN COMPLETED, CONDUCT INSPECTIONS AT LEAST ONCE EVERY MONTH.

ALL INSPECTIONS ARE TO BE RECORDED AND INCLUDE THE NAME(S) AND QUALIFICATION OF THE INSPECTOR, THE DATE OF INSPECTION, RAINFALL DATA, LOCATION AND CONDITION OF CONTROL MEASURES, OBSERVATIONS, AND CORRECTIVE ACTIONS RECOMMENDED. A COPY OF THE SWPPP INSPECTION REPORT FORM FROM FDEP HAS BEEN INCLUDED ON THIS SHEET AS AN EXAMPLE. ALSO, INSPECT AND ENSURE THAT CONTROLS INSTALLED IN THE FIELD CORRESPOND TO THOSE SPECIFIED ON THE CURRENT SWPPP.

AREAS TO INSPECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- A. POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES
B. POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS (MS4)
C. DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED
D. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION
E. STRUCTURAL CONTROLS
F. STORMWATER MANAGEMENT SYSTEMS
G. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE

INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT ITEMS ARE NOT IN GOOD WORKING ORDER. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, OR PREVENT DISCHARGING POLLUTANTS, PROVIDE ADDITIONAL MEASURES AS REQUIRED AND THE RESPONSIBLE AUTHORITY/OPERATOR SHALL REVISE THE SWPPP ACCORDINGLY.

13. NON-STORMWATER DISCHARGES

REFER TO THE SWPPP FOR ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOW FROM FIRE FIGHTING ACTIVITIES). THE RESPONSIBLE AUTHORITY/OPERATOR SHALL MEASURES TO PREVENT THE POLLUTION OF THESE NON-STORMWATER DISCHARGES. SUCH DISCHARGES MAY INCLUDE IRRIGATION OPERATIONS OR RUNOFF GENERATED FROM CONSTRUCTION PRACTICES.

14. CONTRACTORS CERTIFICATION

ENSURE THAT ALL CONTRACTORS AND SUBCONTRACTORS WORKING WITHIN THE PROJECT AREA SIGN THE FOLLOWING CERTIFICATION, AN EXAMPLE FORM HAS BEEN PROVIDED ON THIS SHEET:

I certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder.

15. RETENTION OF RECORDS

THE RESPONSIBLE AUTHORITY/OPERATOR SHALL RETAIN COPIES OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). ALL REPORTS REQUIRED BY THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES, AND ALL DATA USED TO COMPLETE THE NOTICE OF INTENT FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THAT THE SITE HAS REACHED FINAL STABILIZATION AND THE NOTICE OF TERMINATION (N.O.T) IS SUBMITTED.

16. NOTICE OF TERMINATION

WHEN THE SITE HAS REACHED FINAL STABILIZATION AND ALL STORMWATER DISCHARGE AUTHORIZED BY THE GENERIC PERMIT HAS BEEN ELIMINATED, THE RESPONSIBLE AUTHORITY/OPERATOR SHALL SUBMIT A NOTICE OF TERMINATION (FDEP FORM 62-621.300(6)) THAT IS SIGNED IN ACCORDANCE WITH PART VI.C OF FDEP DOCUMENT NO. 62.621.300(4)(g) WITHIN 14 DAYS OF FINAL STABILIZATION OF THE SITE TO TERMINATE COVERAGE UNDER THIS PERMIT. THE ELIMINATION OF STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES MEANS THAT ALL DISTURBED SOILS AT THE SITE FINAL BEEN FINALLY STABILIZED AND ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED OR WILL BE REMOVED AT AN APPROPRIATE TIME. IF THAT ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE SITE THAT ARE AUTHORIZED BY THIS GENERIC PERMIT HAVE OTHERWISE BEEN ELIMINATED, FOR CONSTRUCTION ACTIVITIES WHERE THE RESPONSIBLE AUTHORITY/OPERATOR CHANGES, THE CURRENT RESPONSIBLE AUTHORITY/OPERATOR SHALL FILE A NOTICE OF TERMINATION WITHIN 14 DAYS OF RELINQUISHING CONTROL OF THE PROJECT TO THE NEW RESPONSIBLE AUTHORITY/OPERATOR. NOTE THAT COVERAGE UNDER THE GENERIC PERMIT IS NOT TRANSFERABLE.

THE NOTICE OF TERMINATION CAN BE SUBMITTED EITHER OF THE FOLLOWING WAYS:

- A. ONLINE AT http://www.fdepportal.com/go/
B. EMAIL TO NPDES-stormwater@dep.state.fl.us
C. MAIL TO THE FOLLOWING ADDRESS:

NPDES STORMWATER NOTICES CENTER, MS# 2510 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION 2600 BLAIRSTONE ROAD TALLAHASSEE, FLORIDA 32399-2400

IF THE PROJECT DISCHARGES TO A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4), THE RESPONSIBLE AUTHORITY/OPERATION SHALL ALSO SUBMIT A COPY OF THE NOTICE OF TERMINATION OR THE ACKNOWLEDGEMENT LETTER WITHIN SEVEN (7) CALENDAR DAYS OF RECEIPT TO THE OPERATOR OF THE MS4.

17. OWNER'S INSTRUCTIONS FOR MAINTENANCE AND INSPECTION OF STORMWATER FACILITIES

FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES AND NOTICE OF TERMINATION, THE OWNER WILL ASSUME RESPONSIBILITY FOR THE STORMWATER SYSTEM. THE ENTIRE STORMWATER SYSTEM SHOULD BE INSPECTED ON AT LEAST A SEMI-ANNUAL BASIS. THIS SHOULD INCLUDE A VISUAL INSPECTION OF THE POND, POND BANKS, BLEED-DOWN ORIFICES, OTHER CONTROL STRUCTURES, AND DISCHARGE PIPES. THESE SHOULD BE KEPT FREE OF DEBRIS AND CLEANED ON A FREQUENCY AS REQUIRED TO KEEP THEM FUNCTIONAL, AS DESIGNED. MOWING/CLEARING AROUND THE STRUCTURES MAY BE REQUIRED TO PREVENT VEGETATION FROM CLOGGING THEM. SEDIMENT SLUMPS, IF DESIGNED AND INSTALLED, SHOULD HAVE SEDIMENT REMOVED AS NECESSARY TO ALLOW THEM TO EFFICIENTLY REMOVE SUSPENDED PARTICLES. THEY SHOULD BE RE-DUG TO THE ORIGINAL DESIGN SPECIFICATIONS, IF SILTED IN.

FOR PERCOLATION TREATMENT PONDS/SWALES, THE OWNER OF THE FACILITY SHALL INSPECT THE POND BOTTOM PERIODICALLY AFTER HEAVY RAINFALL EVENTS TO CHECK FOR PERSISTENT PONDING OR POOLING OF WATER. ALL LARGE DEBRIS SHALL BE REMOVED AND DISPOSED OF ELSEWHERE. IF PROLONGED PONDING PERSISTS, I.E., IN EXCESS OF 72 HOURS, THE OWNER SHALL RAKE OR SCARIFY THE SURFACE. IF REQUIRED, THE SOIL IN THE AREA OF PONDING SHALL BE REMOVED AND REPLACED WITH CLEAN SANDY, NON-COHESIVE SOILS.

SPECIFIC CONDITIONS OF ALL PERMITS MAY REQUIRE ADDITIONAL MAINTENANCE ACTIVITIES ABOVE AND BEYOND THOSE OUTLINED ABOVE. THE RESPONSIBLE AUTHORITY/OPERATOR PLEASE BE AWARE OF ALL PERMIT CONDITIONS AS ISSUED BY REGULATORY AGENCIES TO ENSURE PERMIT COMPLIANCE.

Stormwater Pollution Prevention Plan Inspection Report Form

Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater.

Project Name: \_\_\_\_\_ FDEP NPDES Stormwater Identification Number: FLR \_\_\_\_\_

Table with 6 columns: Location, Rain data, Type of control (see below), Date installed / modified, Current Condition (see below), Corrective Action / Other Remarks

Condition Code:

G = Good M = Marginal, needs maintenance or replacement soon P = Poor, needs immediate maintenance or replacement C = Needs to be cleaned O = Other

Control Type Codes

Table with 4 columns: Control Type Codes, 10. Storm drain inlet protection, 19. Reinforced soil retaining system, 28. Tree protection, 2. Earth dikes, 11. Vegetative buffer strip, 20. Gabion, 29. Detention pond, 3. Structural diversion, 12. Vegetative preservation area, 21. Sediment Basin, 30. Retention pond, 4. Swale, 13. Retention Pond, 22. Temporary seed / sod, 31. Waste disposal / housekeeping, 5. Sediment Trap, 14. Construction entrance stabilization, 23. Permanent seed / sod, 32. Dam, 6. Check dam, 15. Perimeter ditch, 24. Mulch, 33. Sand Bag, 7. Subsurface drain, 16. Curb and gutter, 25. Hay Bales, 34. Other, 8. Pipe slope drain, 17. Paved road surface, 26. Geotextile, 9. Level spreaders, 18. Rock outlet protection, 27. Rip-rap

Inspector Information:

Table with 3 columns: Name, Qualification, Date

The above signature also shall certify that this facility is in compliance with the Stormwater Pollution Prevention Plan and the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities if there are not any incidents of non-compliance identified above.

\*\*\*\*\*

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Table with 2 columns: Name (Responsible Authority), Date

CONTRACTOR/SUBCONTRACTOR CERTIFICATION STATEMENT

SITE NAME: \_\_\_\_\_ SITE LOCATION: \_\_\_\_\_

NOTE: THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) MUST CLEARLY IDENTIFY, FOR EACH MEASURE IDENTIFIED WITHIN THE SWPPP, THE CONTRACTOR(S) OR SUBCONTRACTOR(S) THAT WILL IMPLEMENT EACH MEASURE. ALL CONTRACTOR(S) AND SUBCONTRACTOR(S) IDENTIFIED IN THE SWPPP MUST SIGN THE FOLLOWING CERTIFICATION:

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER."

Table with 5 columns: DATE, RESPONSIBLE INDIVIDUAL NAME, RESPONSIBLE INDIVIDUAL SIGNATURE, TITLE, COMPANY NAME, ADDRESS, AND PHONE NUMBER

DHM MELVIN ENGINEERING EB-0005637 LC-0000277 MARIANNA OFFICE 4428 Lafayette Street Marianna, FL 32446 Phone: (850) 482-3045 TALLAHASSEE OFFICE 2541-1 Barrington Circle Tallahassee, FL 32308 Phone: (850) 671-7221 www.melvineng.com

HURRICANE MICHAEL RECOVERY PROJECTS CITY OF COTTONDALE Project Name: Client Name:

RELEASE RECORD Table with 3 columns: No., Date, Description

DHM Project No: COT22HR DRAWN BY: MARY M. FARRIS CHECKED BY: DHM PROJECT ENGINEER: David H. Melvin, P.E. FL Registration No: FL38734

Sheet Title: STORMWATER POLLUTION PREVENTION PLAN

Sheet Title: STORMWATER POLLUTION PREVENTION PLAN Drawing No: C14 Submittal: 100% Bid Plans Date: 10-2025 Not for Construction x Released for Bid 10-2025

© DAVID H. MELVIN, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN PERMISSION OF DAVID H. MELVIN, INC.













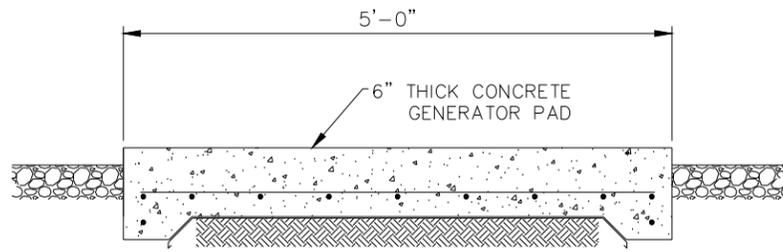






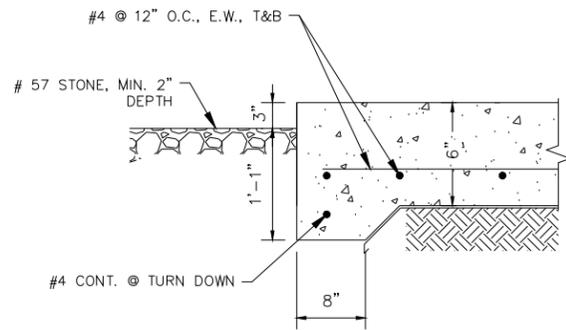


ACTUAL PAD SIZE MAY VARY, BASED ON EQUIPMENT PROVIDE



GENERATOR PAD CROSS SECTION

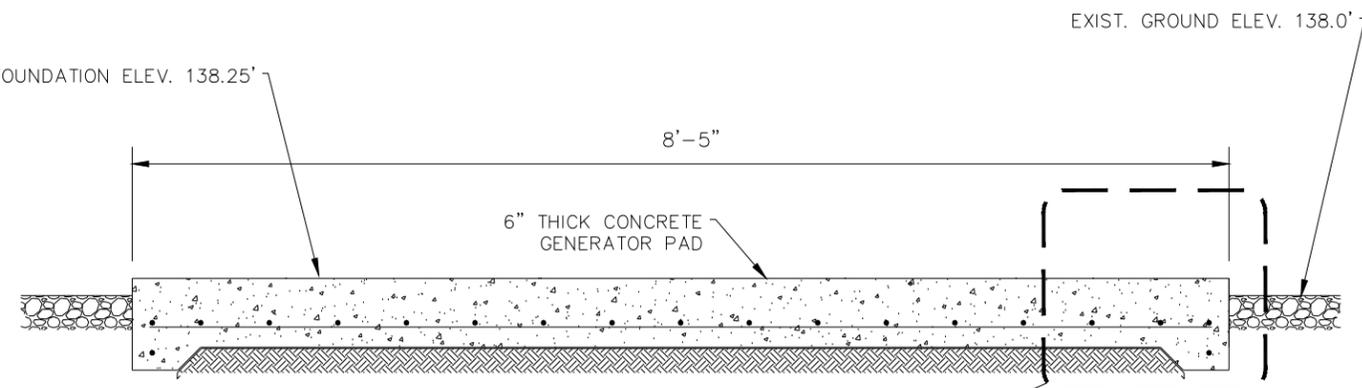
SCALE: 3/4" = 1'-0"



GENERATOR PAD TURNDOWN

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

NOTE:  
 138.0' = Exist. Ground Elev.  
 130.0' = 100-yr Flood Elev.  
 133.0' = 3 feet above 100-yr Flood Elev.  
 132.0' = Est. 500-yr Flood Elev.



GENERATOR PAD CROSS SECTION

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



SITE PHOTOS - 3332 West Street

SCALE: NTS



PROJECT LOCATION

SCALE: NTS



MELVIN ENGINEERING  
 EB-0005637 LC-0000277

MARIANNA OFFICE  
 4428 Lafayette Street  
 Marianna, FL 32446  
 Phone: (850) 482-3045

TALLAHASSEE OFFICE  
 2541-1 Barrington Circle  
 Tallahassee, FL 32308  
 Phone: (850) 671-7221

www.melvineng.com

PROJECT:  
 Cottondale Waste Water  
 Facilities Generators

OWNER:  
 City of Cottondale

DAVID H. MELVIN, P.E.

FLORIDA REG. NO. 38734

DATE CREATED: 07/29/24

REVISIONS:

PROJECT NO: COT22LS

CAD FILE: 3332 West street

DRAWN BY: JOHN UDOCHI

CHECKED BY: D.H.M.

SHEET TITLE:  
 3332 WEST STREET  
 LIFT STATION  
 SITE PLAN

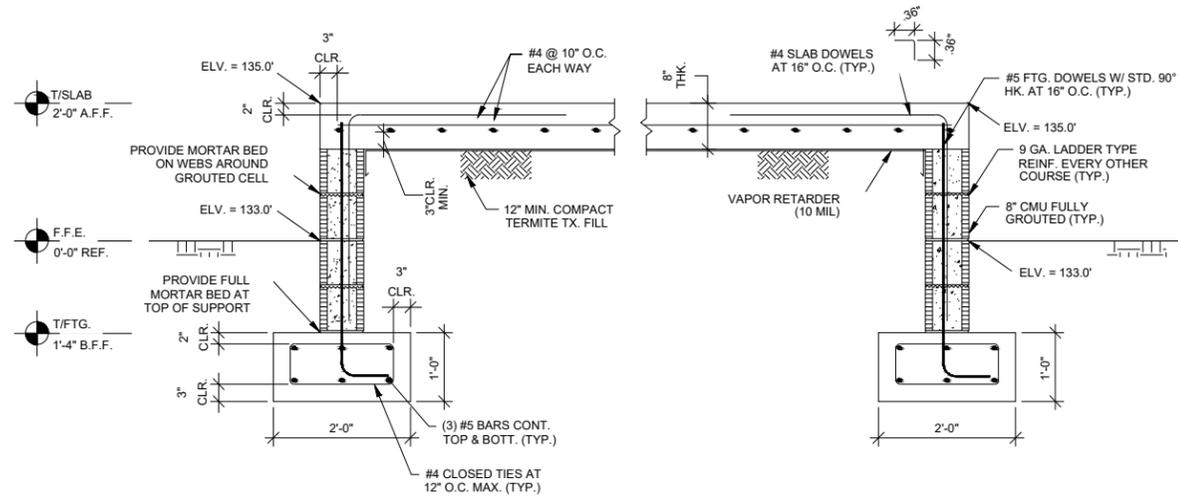
SHEET NO:

LS1

RELEASE FOR CONSTRUCTION  
 X NOT FOR CONSTRUCTION

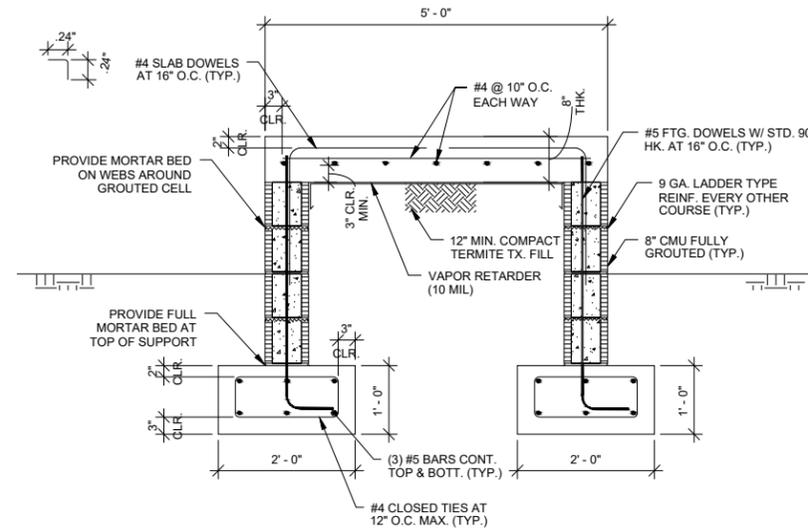
ACTUAL PAD SIZE MAY VARY, BASED ON EQUIPMENT PROVIDED.

**NOTE:**  
 133.0' = Exist. Ground Elev.  
 134.0' = 100-yr Flood Elev.  
 137.0' = 3 feet above 100-yr Flood Elev.  
 136.0' = Est. 500-yr Flood Elev.



8" CMU WALL W/ 8" SLAB

NTS

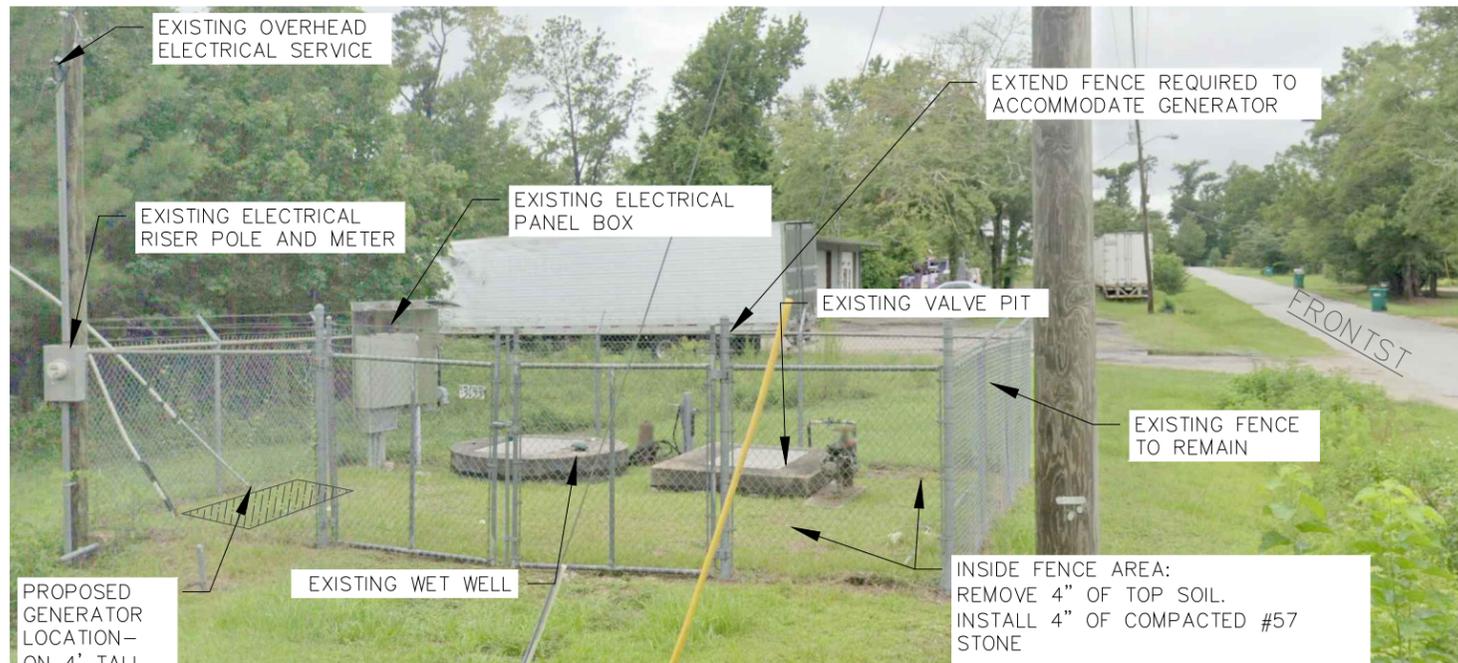


8" CMU WALL SECTION

NTS

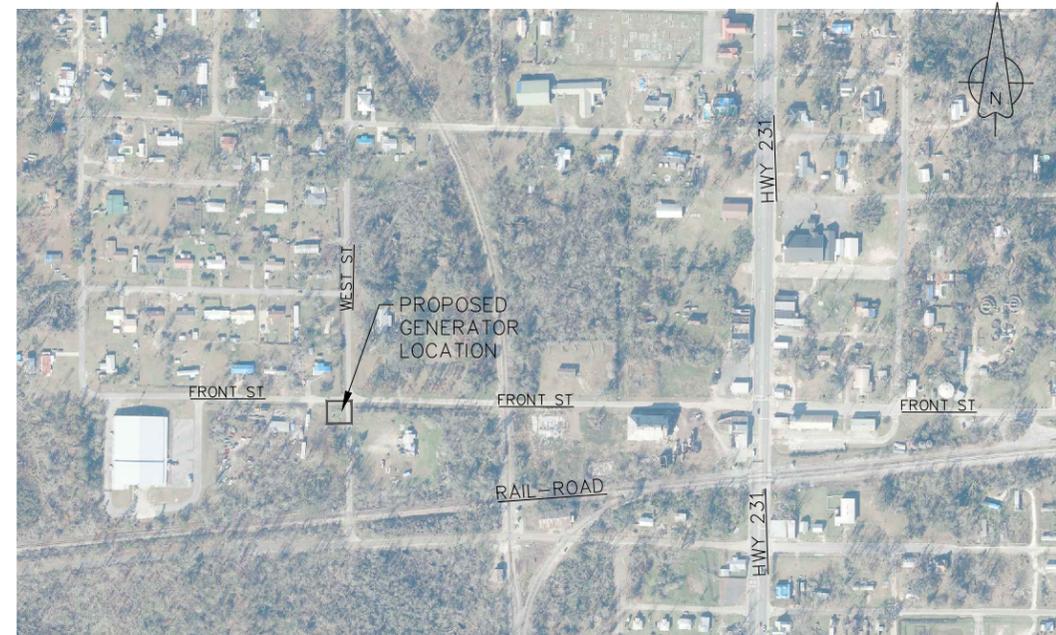
**NOTES FOR CONTRACTOR**

- 4,000 PSI CONC. TO BE USED AT ALL FOOTINGS AND SLAB MINIMUM REQUIREMENTS FOR BOLTS CONNECTING GENERATOR TO SLAB EMBEDMENT DEPTH: 3" DIAMETER OF BOLT: 5/8"
- PAD HEIGHT WILL VARY BASED ON GENERATOR AND SUB-BASE FUEL TANK
- ALLOW FOR AT LEAST 3 FEET CLEARANCE BETWEEN EDGE OF PAD AND BASE OF GENERATOR/TANK



SITE PHOTOGRAPHS

NTS



PROJECT LOCATION

NTS



**MELVIN ENGINEERING**  
 EB-0005637 LC-0000277

**MARIANNA OFFICE**  
 4428 Lafayette Street  
 Marianna, FL 32446  
 Phone: (850) 482-3045

**TALLAHASSEE OFFICE**  
 2541-1 Barrington Circle  
 Tallahassee, FL 32308  
 Phone: (850) 671-7221

www.melvineng.com

PROJECT: **Cottondale Waste Water Facilities Generators**  
 OWNER: **City of Cottondale**

DAVID H. MELVIN, P.E.

FLORIDA REG. NO. 38734

DATE CREATED: 08/11/24

REVISIONS:

NO.	DESCRIPTION

PROJECT NO: COT22LS

CAD FILE: 2598 Front Street

DRAWN BY: JOHN UDOCHI

CHECKED BY: D.H.M.

SHEET TITLE:  
**2598 FRONT STREET  
 LIFT STATION  
 SITE PLAN**

SHEET NO:

**LS2**

RELEASE FOR CONSTRUCTION  
 NOT FOR CONSTRUCTION



MELVIN ENGINEERING  
EB-0005637 LC-0000277

MARIANNA OFFICE  
4428 Lafayette Street  
Marianna, FL 32446  
Phone: (850) 482-3045

TALLAHASSEE OFFICE  
2541-1 Barrington Circle  
Tallahassee, FL 32308  
Phone: (850) 671-7221

www.melvineng.com

PROJECT:  
Cottondale Waste Water  
Facilities Generators

OWNER:  
City of Cottondale

DAVID H. MELVIN, P.E.

FLORIDA REG. NO. 38734

DATE CREATED: 08/11/24

REVISIONS:

NO.	DESCRIPTION

PROJECT NO: COT22LS

CAD FILE: 2598 Front Street

DRAWN BY: JOHN UDOCHI

CHECKED BY: D.H.M.

SHEET TITLE:

2598 FRONT STREET  
LIFT STATION  
ELEVATIONS

SHEET NO:

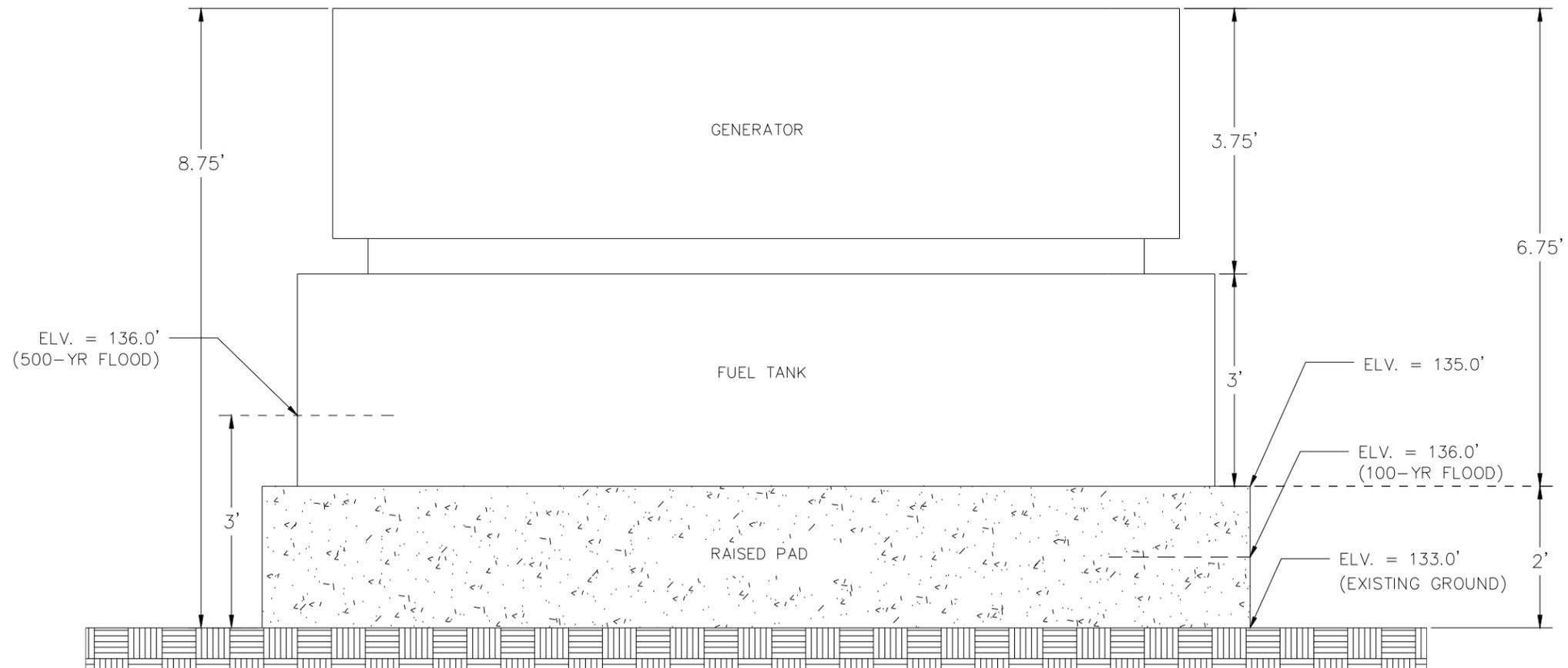
LS2.2

RELEASE FOR CONSTRUCTION

X NOT FOR CONSTRUCTION

NOTE:  
133.0' = Exist. Ground Elev.  
134.0' = 100-yr Flood Elev.  
137.0' = 3 feet above 100-yr Flood Elev.  
136.0' = Est. 500-yr Flood Elev.

GENERATOR WILL ALWAYS BE ABOVE 500-YR FLOOD BY AT LEAST 5.75 FT.



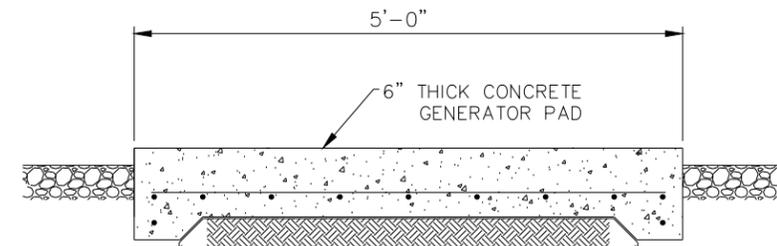
GENERATOR RAISED PAD ELEVATIONS

NTS

© DAVID H. MELVIN, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN PERMISSION OF DAVID H. MELVIN, INC.

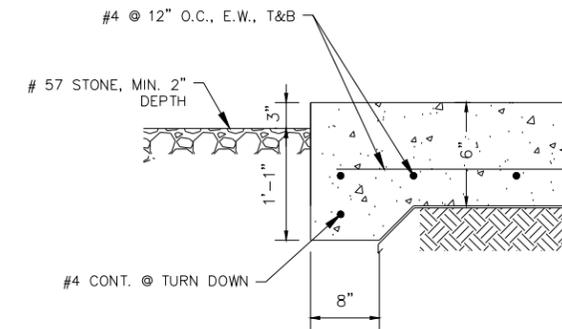
ACTUAL PAD SIZE MAY VARY, BASED ON EQUIPMENT PROVIDED.

NOTE:  
 131.0' = Exist. Ground Elev.  
 125.0' = 100-yr Flood Elev.  
 128.0' = 3 feet above 100-yr Flood Elev.  
 127.0' = Est. 500-yr Flood Elev.



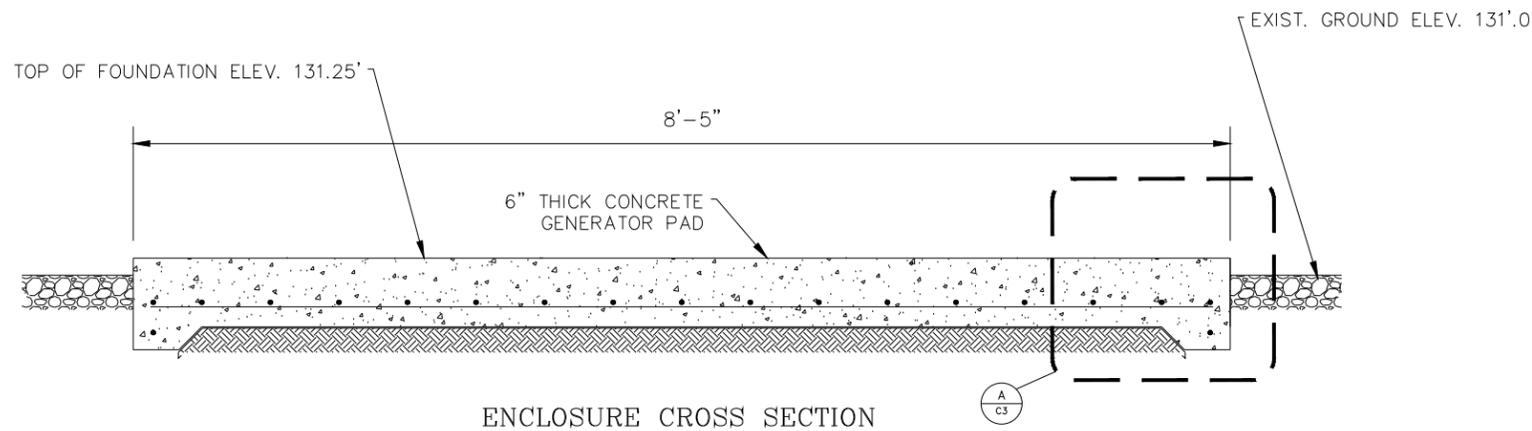
ENCLOSURE CROSS SECTION

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



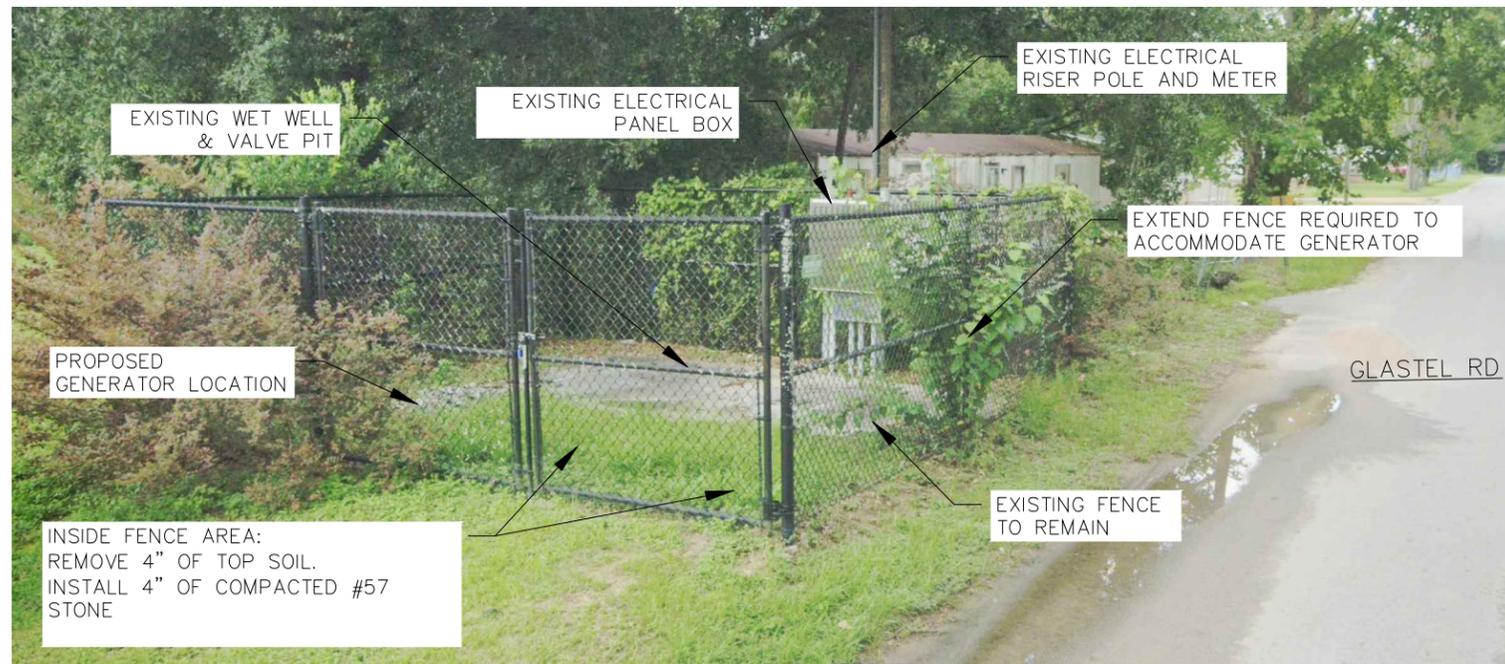
GENERATOR PAD TURNDOWN

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



ENCLOSURE CROSS SECTION

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



SITE PHOTO - 2798 GLASTEL STREET.

SCALE: NTS



PROJECT LOCATION

SCALE: NTS



MELVIN ENGINEERING  
 EB-0005637 LC-0000277

MARIANNA OFFICE  
 4428 Lafayette Street  
 Marianna, FL 32446  
 Phone: (850) 482-3045

TALLAHASSEE OFFICE  
 2541-1 Barrington Circle  
 Tallahassee, FL 32308  
 Phone: (850) 671-7221

www.melvineng.com

PROJECT:  
 Cottondale Waste Water  
 Facilities Generators

OWNER:  
 City of Cottondale

DAVID H. MELVIN, P.E.

FLORIDA REG. NO. 38734

DATE CREATED: 08/11/24

REVISIONS:

PROJECT NO: COT22LS

CAD FILE: 2798 Glastel

DRAWN BY: JOHN UDOCHI

CHECKED BY: D.H.M.

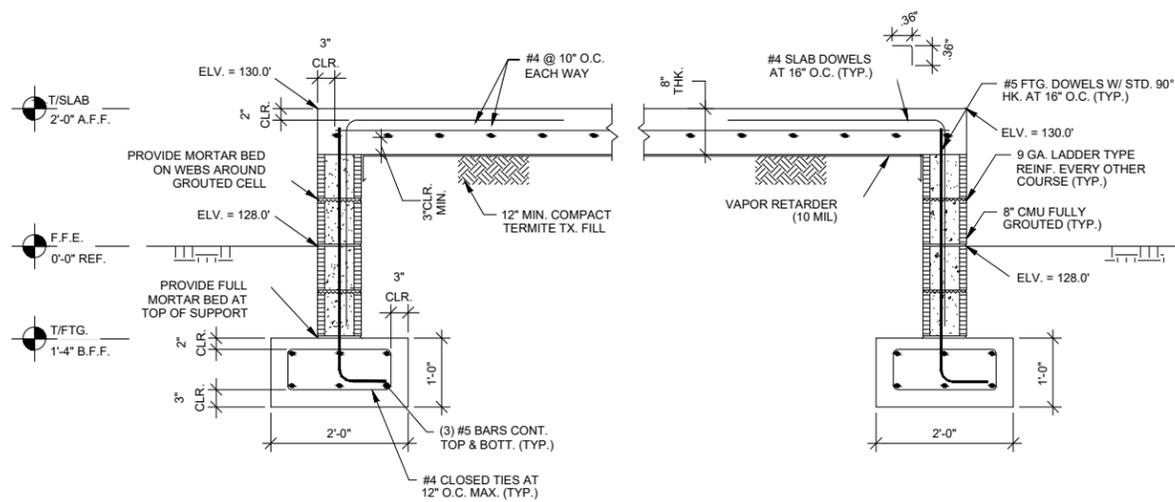
SHEET TITLE:  
 2798 GLASTEL STREET  
 LIFT STATION  
 SITE PLAN & SECTIONS

SHEET NO:

LS3

RELEASE FOR CONSTRUCTION  
 X NOT FOR CONSTRUCTION

**NOTE:**  
128.0' = Exist. Ground Elev.  
130.0' = 100-yr Flood Elev.  
133.0' = 3 feet above 100-yr Flood Elev.  
132.0' = Est. 500-yr Flood Elev.

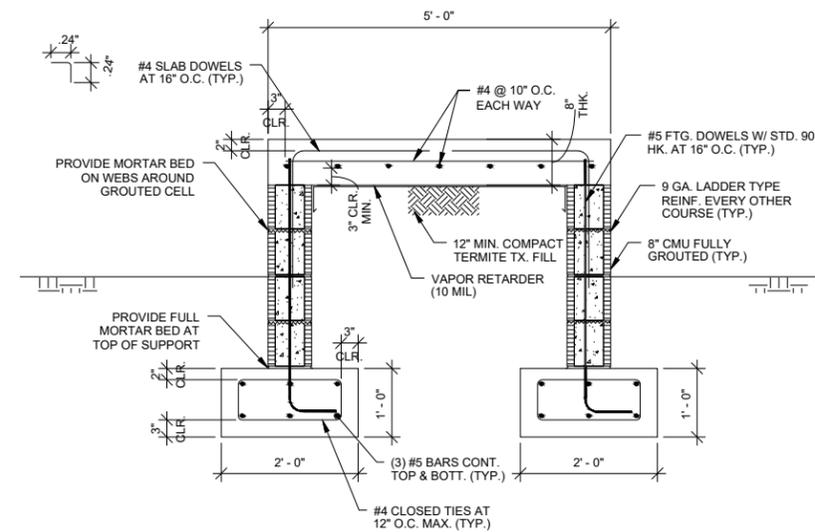


**8" CMU WALL W/ 8" SLAB**

NTS

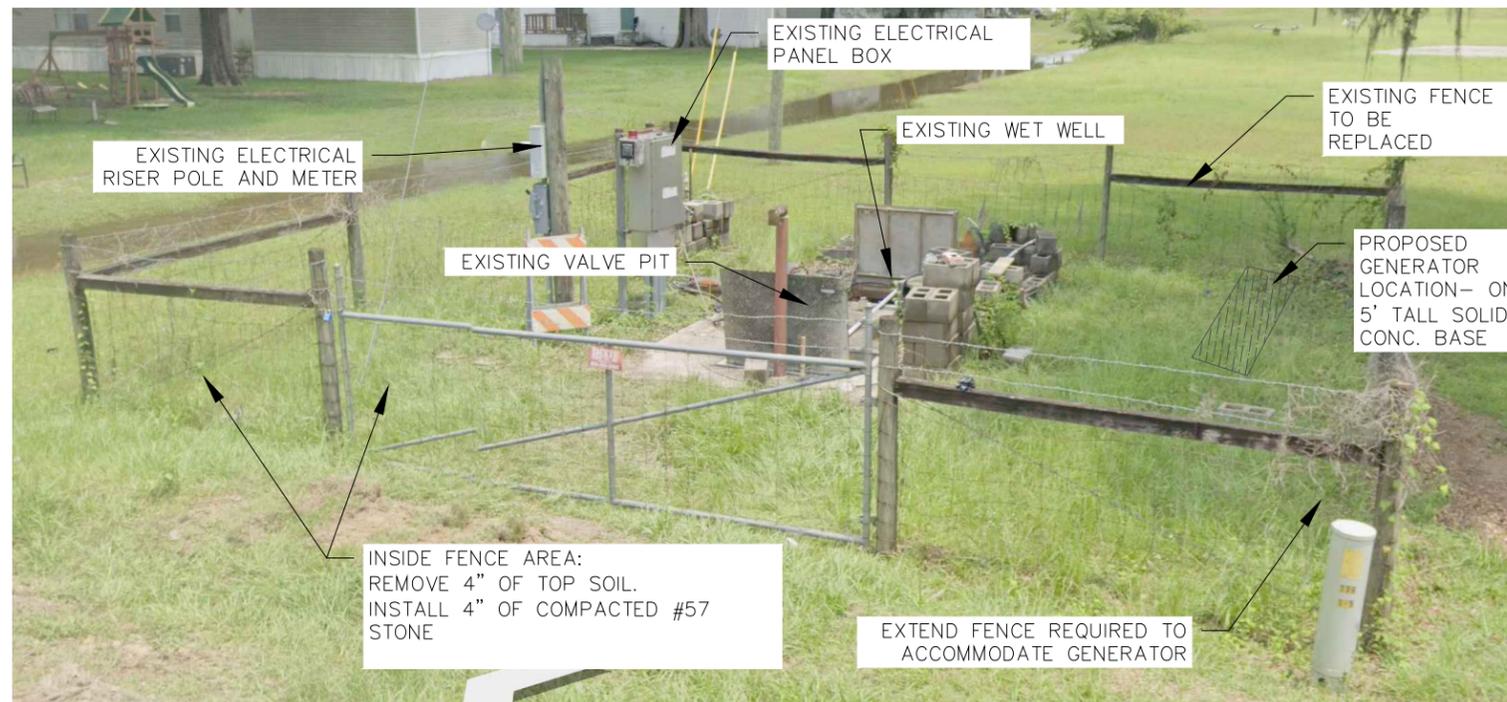
**NOTES FOR CONTRACTOR**

- 4,000 PSI CONC. TO BE USED AT ALL FOOTINGS AND SLAB MINIMUM REQUIREMENTS FOR BOLTS CONNECTING GENERATOR TO SLAB EMBEDMENT DEPTH: 3" DIAMETER OF BOLT: 5/8"
- PAD HEIGHT WILL VARY BASED ON GENERATOR AND SUB-BASE FUEL TANK
- ALLOW FOR AT LEAST 3 FEET CLEARANCE BETWEEN EDGE OF PAD AND BASE OF GENERATOR/TANK



**8" CMU WALL SECTION**

NTS



**SITE PHOTOS - 3351 CADDY RD.**

SCALE: NTS



**PROJECT LOCATION**

SCALE: 1' = 1000'-0"



MELVIN ENGINEERING  
EB-0005637 LC-0000277

MARIANNA OFFICE  
4428 Lafayette Street  
Marianna, FL 32446  
Phone: (850) 482-3045

TALLAHASSEE OFFICE  
2541-1 Barrington Circle  
Tallahassee, FL 32308  
Phone: (850) 671-7221

www.melvineng.com

PROJECT:  
Cottondale Waste Water  
Facilities Generators

OWNER:  
City of Cottondale

DAVID H. MELVIN, P.E.

FLORIDA REG. NO. 38734

DATE CREATED: 08/11/24

REVISIONS:


PROJECT NO: COT22LS

CAD FILE: Caddy Road

DRAWN BY: JOHN UDOCHI

CHECKED BY: D.H.M.

SHEET TITLE:  
3351 CADDY ROAD  
LIFT STATION  
ELEVATIONS

SHEET NO:

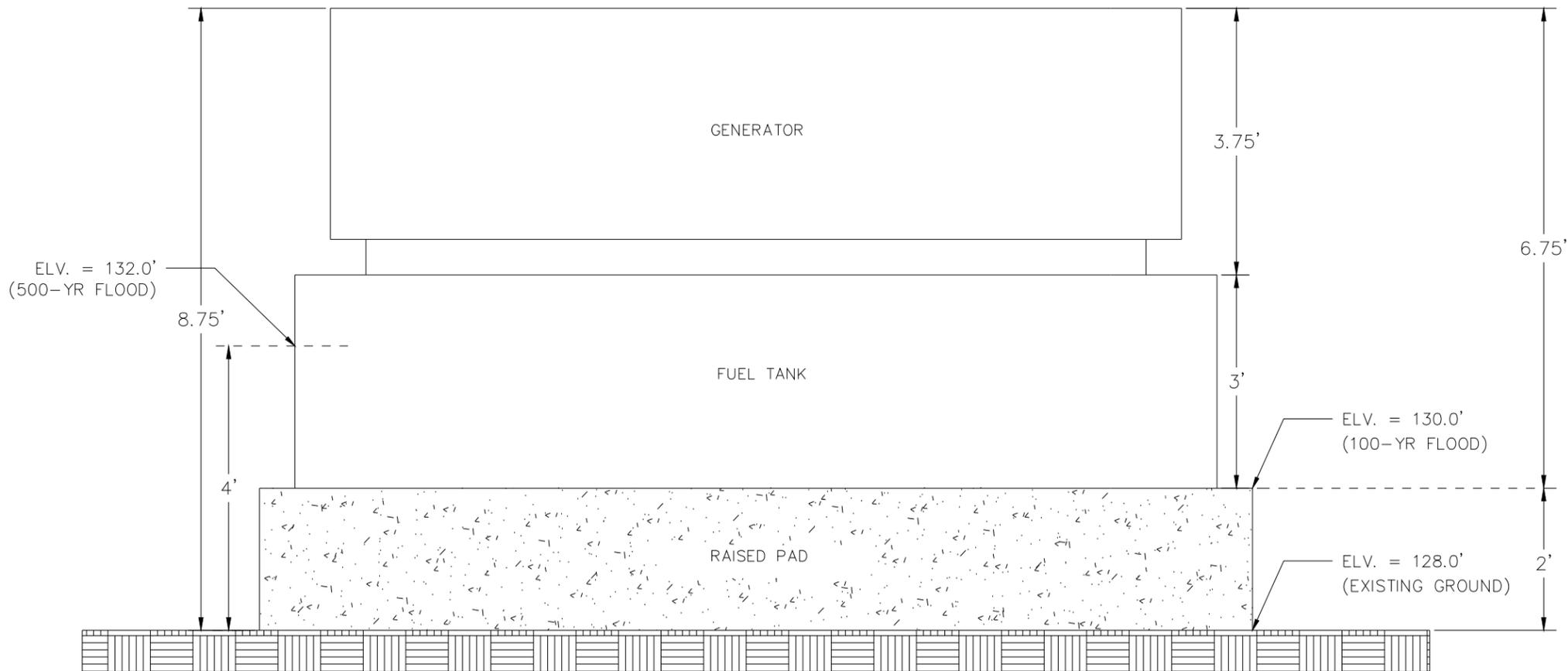
LS4.2

RELEASE FOR CONSTRUCTION

X NOT FOR CONSTRUCTION

NOTE:  
128.0' = Exist. Ground Elev.  
130.0' = 100-yr Flood Elev.  
133.0' = 3 feet above 100-yr Flood Elev.  
132.0' = Est. 500-yr Flood Elev.

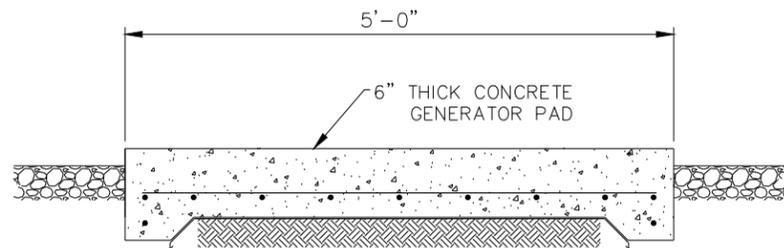
GENERATOR WILL ALWAYS BE ABOVE 500-YR FLOOD BY AT LEAST 4.75 FT.



GENERATOR RAISED PAD ELEVATIONS

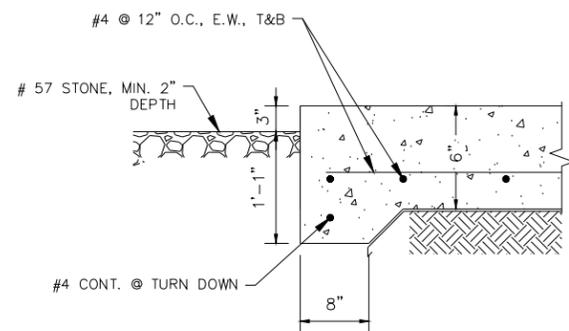
NTS

ACTUAL PAD SIZE MAY VARY, BASED ON EQUIPMENT PROVIDED.



GENERATOR PAD CROSS SECTION

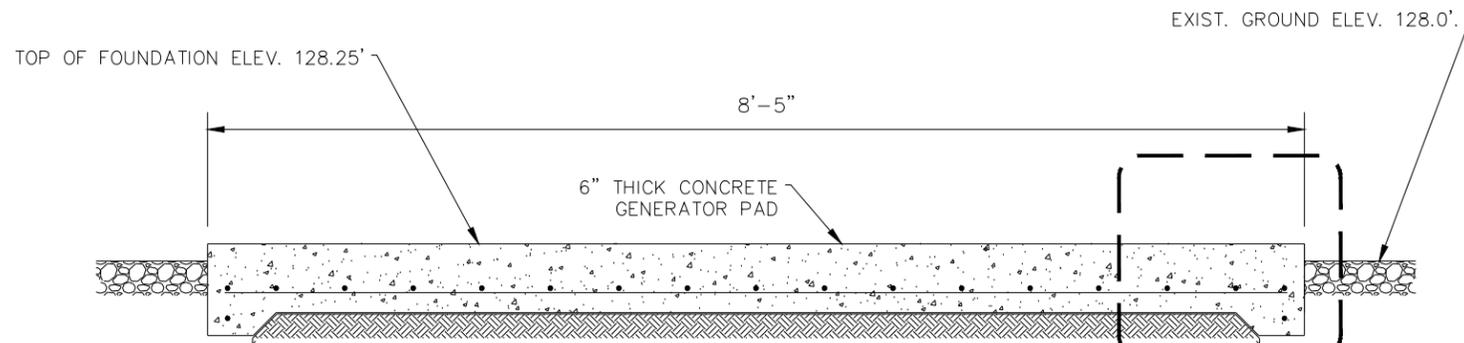
SCALE: 3/4" = 1'-0"



GENERATOR PAD TURNDOWN

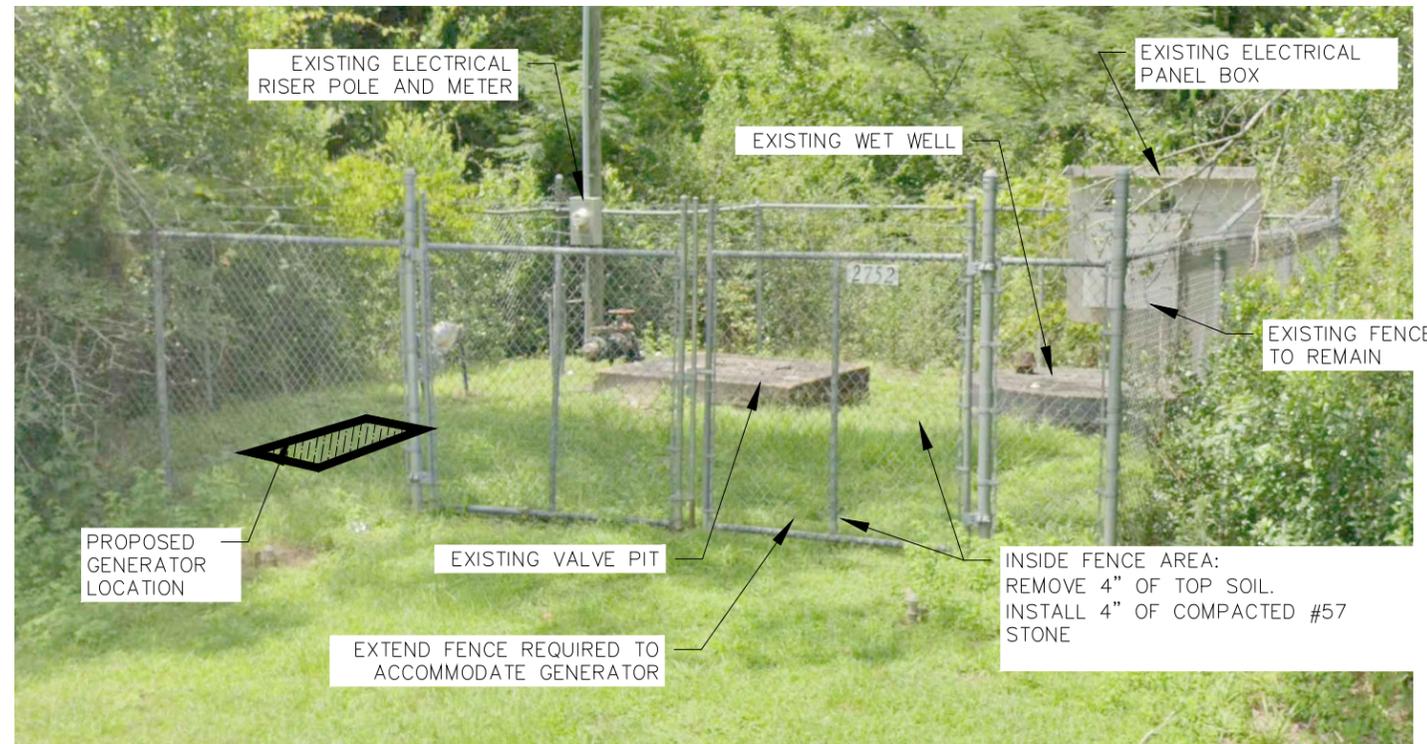
SCALE: 3/4" = 1'-0"

NOTE:  
 128.0' = Exist. Ground Elev.  
 125.0' = 100-yr Flood Elev.  
 128.0' = 3 feet above 100-yr Flood Elev.  
 127.0' = Est. 500-yr Flood Elev.



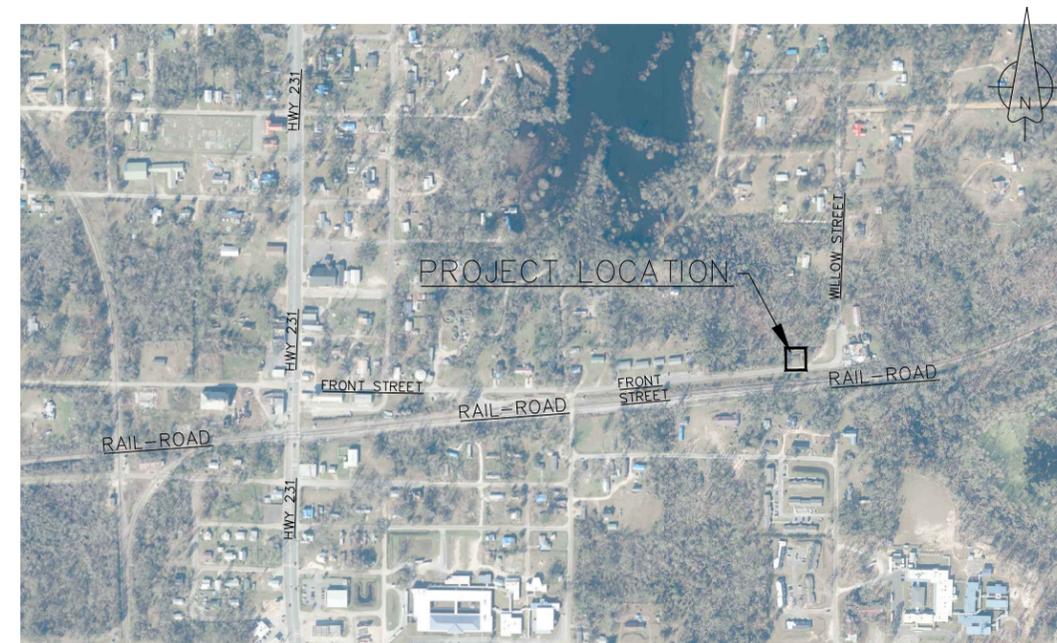
GENERATOR PAD CROSS SECTION

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



SITE PHOTO - 2752 Front Street

SCALE: NTS



PROJECT LOCATION

SCALE: NTS



MELVIN ENGINEERING  
 EB-0005637 LC-0000277

MARIANNA OFFICE  
 4428 Lafayette Street  
 Marianna, FL 32446  
 Phone: (850) 482-3045

TALLAHASSEE OFFICE  
 2541-1 Barrington Circle  
 Tallahassee, FL 32308  
 Phone: (850) 671-7221

www.melvineng.com

PROJECT:  
 Cottondale Waste Water  
 Facilities Generators

OWNER:  
 City of Cottondale

DAVID H. MELVIN, P.E.

FLORIDA REG. NO. 38734

DATE CREATED: 07/29/24

REVISIONS:

PROJECT NO: COT22LS

CAD FILE: 2752 Front Street

DRAWN BY: JOHN UDOCHI

CHECKED BY: D.H.M.

SHEET TITLE:  
 2752 FRONT STREET  
 LIFT STATION  
 SITE PLAN

SHEET NO:

LS5

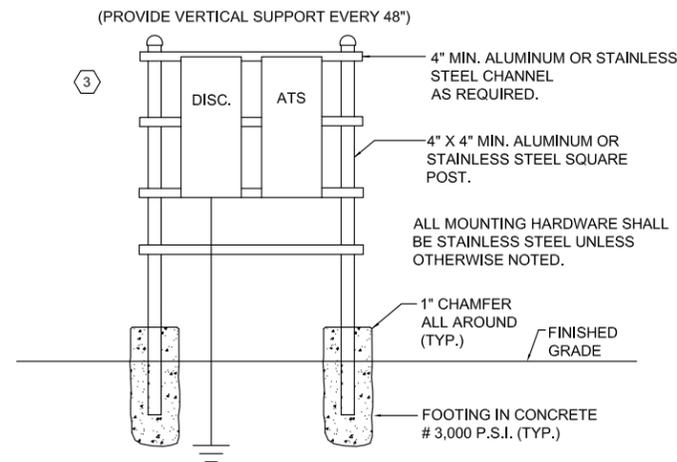
RELEASE FOR CONSTRUCTION  
 X NOT FOR CONSTRUCTION

## GENERAL NOTES

1. THE SCOPE OF WORK IS TO MODIFY THE EXISTING ELECTRICAL AS REQUIRED TO ADD A NEW PERMANENTLY MOUNTED GENERATOR AND ATS SWITCH AS WELL AS A NEW SERVICE DISCONNECT. THE SCOPE INCLUDES ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK. THIS COULD INCLUDE AND IS NOT LIMITED TO MOUNTING RACK MODIFICATIONS OR ADDITIONS, RE-RUNNING CONDUIT AND WIRING AS REQUIRED TO AVOID ANY SPLICES, ETC.
2. ALL WORK SHALL COMPLY WITH 2020 NEC AND ALL APPLICABLE LOCAL CODES.
3. ALL ABOVE GRADE CONDUIT SHALL BE ALUMINUM RIGID (SEALTITE FLEX SHALL BE ACCEPTABLE) UNLESS OTHERWISE NOTED AND/OR REQUIRED BY THE NEC CODE FOR THE AREA & CONDITIONS OF INSTALLATION. ALL BELOW GRADE CONDUIT SHALL BE RIGID PVC. CONDUITS TO THE WETWELL SHALL BE RIGID SCH. 80 PVC IF REQUIRED TO BE REPLACED. ALL CONDUCTORS SHALL BE COPPER.
4. GENERATOR ENCLOSURE SHALL BE BONDED TO THE ELECTRICAL SERVICE GROUNDING SYSTEM. GENERATOR NEUTRALS SHALL NOT BE BONDED AT THE GENERATORS (NOT SEPERATELY DERIVED SYSTEMS - NEUTRAL NOT SWITCHED).
5. ENSURE MAIN BONDING JUMPER IS INSTALLED ONLY AT THE SERVICE ENTRANCE AND NO OTHER LOCATIONS. STATIONS WITH EXISTING DOUBLE THROW SWITCHES SHALL HAVE BONDS REMOVED AND INSTALLED AT NEW SERVICE DISCONNECT SWITCHES.
6. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING PROJECT AND BRING ANY DISCREPANCIES UP TO THE ENGINEER FOR CLARIFICATION.
7. WORK SHALL BE SEQUENCED SO AS TO MINIMIZE ANY DOWNTIME AT EACH LIFT STATION. BYPASS PUMPS MAY BE REQUIRED DURING CONSTRUCTION TO KEEP STATION(S) OPERATIONAL.

## KEY NOTES

- 1 DEMO EXISTING CONDUIT AND WIRING FROM EXISTING METER TO DOUBLE THROW SWITCH AND INSTALL NEW CONDUIT AND WIRE FROM METER TO NEW SERVICE DISCONNECT & ALL OTHER EQUIPMENT AS SHOWN. REMOVE MAIN BONDING JUMPER FROM EXISTING DOUBLE THROW SWITCH (MAIN BONDING JUMPER SHALL NOW BE IN THE NEW SERVICE DISCONNECT PER NEC ARTICLE 250).
- 2 MODIFY EXISTING CONTROL PANEL AS REQUIRED TO ADD NEW 120VAC CIRCUITS TO FEED NEW GENERATOR BATTERY CHARGER & BLOCK HEATER (ENSURE THESE ARE NOT ON THE STINGER LEG OF 240V SERVICES). ADD CIRCUIT BREAKERS TO EXISTING CONTROL PANEL AS REQUIRED. PROVIDE SEPARATE CIRCUITS FOR BATTERY CHARGER (15A BREAKER) & BLOCK HEATER (20A BREAKER). GENERATOR BLOCK HEATER IS 1500W. BREAKERS SHALL BE 10KAIC RATED UNIT MOUNTED (SCHNEIDER QO OR EQUAL).
- 3 PROVIDE AND FIELD LOCATE NEW EQUIPMENT MOUNTING RACK AS REQUIRED FOR NEW RACK MOUNTED PANELS.
- 4 INSTALL NEW 3/4" X 10' GROUNDING ELECTRODE AT NEW SERVICE DISCONNECT AND CONNECT TO THE EXISTING GROUNDING ELECTRODE WITH #4 COPPER.



DETAIL - ATS & DISCONNECT RACK

## LOAD CALCULATION

LOAD	CONNECTED				
	KVA	HP	AMPS	VOLTAGE	PHASE
PUMP NO. 1		3	9.6	240	3
PUMP NO. 2		5	15.2	240	3
CONTROL POWER & MISC.	3		12.5	240/120	1
TOTAL			37.3		
25% OF LARGEST MOTOR			3.8		
CONNECTED + 25% OF LARGEST MOTOR			41.1		

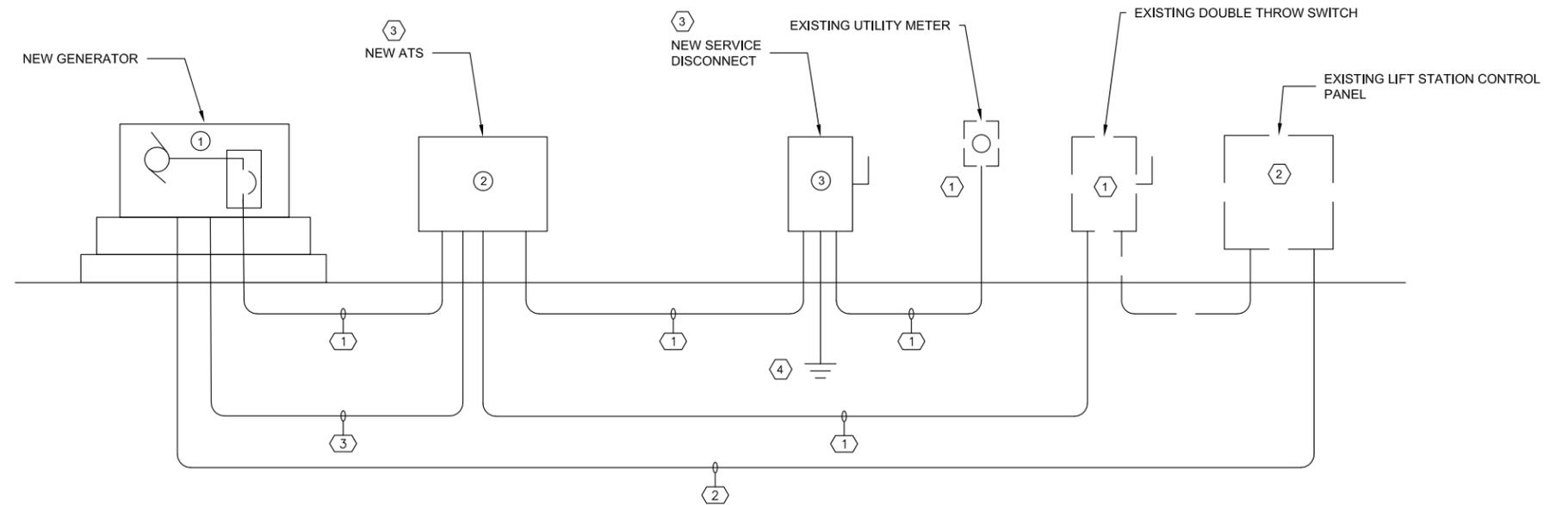
## CONDUIT AND WIRE LEGEND

(NUMBERS REFERENCE THIS SHEET ONLY)

NO.	DESCRIPTION
①	4 - #3 AWG, 1 - #8 (G), 1.5" C.
②	2 - #12 AWG, 2-#10 AWG, & 1 - #10 (G), 0.75" C. (BLOCK HTR, BATT. CHR.G.)
③	4 - #12 AWG, 1-#12 (G), 0.75" C. (GEN START / STOP FROM ATS)

## EQUIPMENT SCHEDULE

①	120/240V, 3-PHASE, 40 KW DIESEL GENERATOR IN ALUMINUM WEATHERPROOF ENCLOSURE WIND RATED FOR THE INSTALLED LOCATION PER THE LATEST EDITION OF THE FLORIDA BUILDING CODE.  PROVIDE WITH 100A, 3 POLE, OUTPUT CIRCUIT BREAKER. OUTPUT BREAKER SIZING IS IMPORTANT TO COORDINATE WITH THE CABLE SIZES AND ATS SWITCH RATING.  PROVIDE WITH 120VAC BATTERY CHARGER AND 120VAC BLOCK HEATER (1500W MAX).  MANUFACTURER SHALL INSURE GENERATOR WILL START AND RUN ALL LOADS SHOWN. MOTOR STARTING IS DOL. UPSIZED ALTERNATOR MAY BE REQUIRED. GENSET MANUFACTURER TO SIZE APPROPRIATELY.  PROVIDE 1 DAY OF STARTUP AND TESTING IN THE BID.  PROVIDE WITH SUB-BASE FUEL TANK WITH CAPACITY TO RUN GENERATOR FULLY LOADED FOR 24HRS. FUEL TANK SHALL MEET ALL APPLICABLE FLORIDA DEP REQUIREMENTS.
②	ATS - 120/240V, 100 AMP, 14KAIC, 3-POLE WITH SOLID NEUTRAL, NEMA 4X STAINLESS STEEL ENCLOSURE. ATS SHALL HAVE INTEGRAL SURGE PROTECTIVE DEVICE.
③	FUSED HEAVY DUTY DISCONNECT 120/240V, 100 AMP, 3-POLE WITH SOLID NEUTRAL & GROUND, NEMA 4X STAINLESS STEEL ENCLOSURE. FURNISH WITH 100A CLASS RK5 FUSES. SCHNEIDER ELECTRIC OR EQUAL.



PARTIAL ELECTRICAL RISER DIAGRAM

NO.	DATE	APPR.	REVISION:
1			
2			
3			
4			
5			

3332 WEST STREET LIFT STATION  
(1) 3HP & (1) 5HP DUPLEX  
120/240V THREE PHASE

CITY OF COTTONDALE - LIFT STATIONS  
GENERATOR ADDITIONS  
COTTONDALE, FLORIDA

CHAD HALL, P.E.  
ELECTRICAL ENGINEER  
FL License # 65846

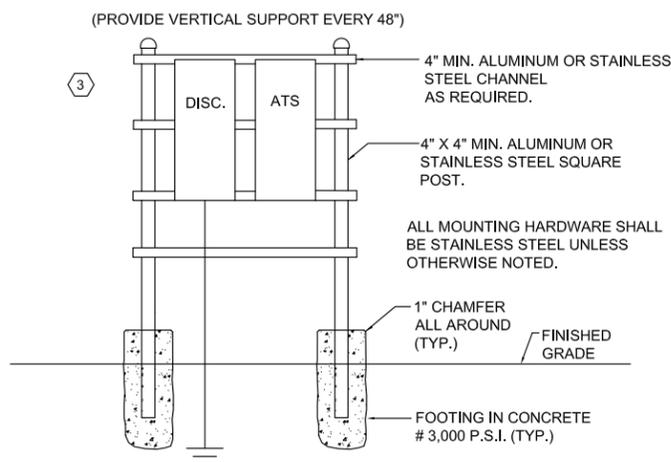
DATE: 07/29/2024	PROJECT NO. XXXX
SCALE: NONE	
DRAWN: CEH	SHEET EG3
CHECKED: CEH	

## GENERAL NOTES

1. THE SCOPE OF WORK IS TO MODIFY THE EXISTING ELECTRICAL AS REQUIRED TO ADD A NEW PERMANENTLY MOUNTED GENERATOR AND ATS SWITCH AS WELL AS A NEW SERVICE DISCONNECT. THE SCOPE INCLUDES ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK. THIS COULD INCLUDE AND IS NOT LIMITED TO MOUNTING RACK MODIFICATIONS OR ADDITIONS, RE-RUNNING CONDUIT AND WIRING AS REQUIRED TO AVOID ANY SPLICES, ETC.
2. ALL WORK SHALL COMPLY WITH 2020 NEC AND ALL APPLICABLE LOCAL CODES.
3. ALL ABOVE GRADE CONDUIT SHALL BE ALUMINUM RIGID (SEALTITE FLEX SHALL BE ACCEPTABLE) UNLESS OTHERWISE NOTED AND/OR REQUIRED BY THE NEC CODE FOR THE AREA & CONDITIONS OF INSTALLATION. ALL BELOW GRADE CONDUIT SHALL BE RIGID PVC. CONDUITS TO THE WETWELL SHALL BE RIGID SCH. 80 PVC IF REQUIRED TO BE REPLACED. ALL CONDUCTORS SHALL BE COPPER.
4. GENERATOR ENCLOSURE SHALL BE BONDED TO THE ELECTRICAL SERVICE GROUNDING SYSTEM. GENERATOR NEUTRALS SHALL NOT BE BONDED AT THE GENERATORS (NOT SEPERATELY DERIVED SYSTEMS - NEUTRAL NOT SWITCHED).
5. ENSURE MAIN BONDING JUMPER IS INSTALLED ONLY AT THE SERVICE ENTRANCE AND NO OTHER LOCATIONS. STATIONS WITH EXISTING DOUBLE THROW SWITCHES SHALL HAVE BONDS REMOVED AND INSTALLED AT NEW SERVICE DISCONNECT SWITCHES.
6. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING PROJECT AND BRING ANY DISCREPANCIES UP TO THE ENGINEER FOR CLARIFICATION.
7. WORK SHALL BE SEQUENCED SO AS TO MINIMIZE ANY DOWNTIME AT EACH LIFT STATION. BYPASS PUMPS MAY BE REQUIRED DURING CONSTRUCTION TO KEEP STATION(S) OPERATIONAL.

## KEY NOTES

- ① DEMO EXISTING CONDUIT AND WIRING FROM EXISTING METER TO DOUBLE THROW SWITCH AND INSTALL NEW CONDUIT AND WIRE FROM METER TO NEW SERVICE DISCONNECT & ALL OTHER EQUIPMENT AS SHOWN. REMOVE MAIN BONDING JUMPER FROM EXISTING DOUBLE THROW SWITCH (MAIN BONDING JUMPER SHALL NOW BE IN THE NEW SERVICE DISCONNECT PER NEC ARTICLE 250).
- ② MODIFY EXISTING CONTROL PANEL AS REQUIRED TO ADD NEW 120VAC CIRCUITS TO FEED NEW GENERATOR BATTERY CHARGER & BLOCK HEATER (ENSURE THESE ARE NOT ON THE STINGER LEG OF 240V SERVICES). ADD CIRCUIT BREAKERS TO EXISTING CONTROL PANEL AS REQUIRED. PROVIDE SEPARATE CIRCUITS FOR BATTERY CHARGER (15A BREAKER) & BLOCK HEATER (20A BREAKER). GENERATOR BLOCK HEATER IS 1500W. BREAKERS SHALL BE 10KAIC RATED UNIT MOUNTED (SCHNEIDER QO OR EQUAL).
- ③ PROVIDE AND FIELD LOCATE NEW EQUIPMENT MOUNTING RACK AS REQUIRED FOR NEW RACK MOUNTED PANELS.
- ④ INSTALL NEW 3/4" X 10' GROUNDING ELECTRODE AT NEW SERVICE DISCONNECT AND CONNECT TO THE EXISTING GROUNDING ELECTRODE WITH #4 COPPER.



DETAIL - ATS & DISCONNECT RACK

## LOAD CALCULATION

LOAD	CONNECTED				
	KVA	HP	AMPS	VOLTAGE	PHASE
PUMP NO. 1		15	42	240	3
PUMP NO. 2		15	42	240	3
CONTROL POWER & MISC.	3		12.5	240/120	1
TOTAL			96.5		
25% OF LARGEST MOTOR			10.5		
CONNECTED + 25% OF LARGEST MOTOR			107		

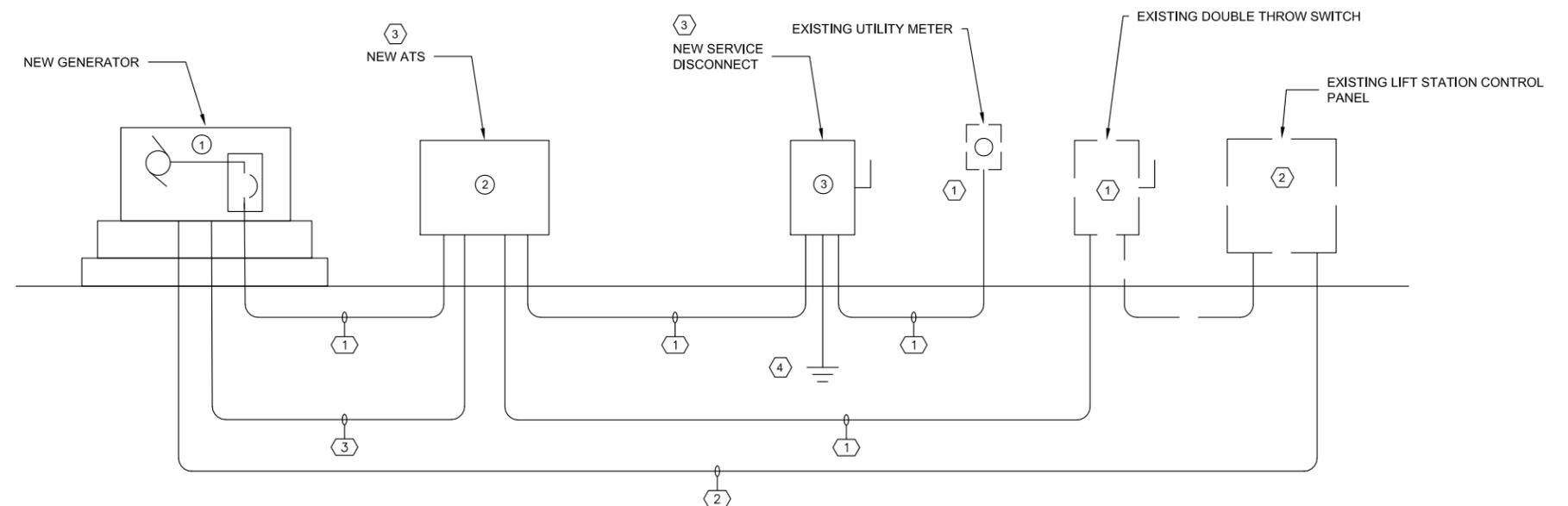
## CONDUIT AND WIRE LEGEND

(NUMBERS REFERENCE THIS SHEET ONLY)

NO.	DESCRIPTION
①	4 - #1 AWG, 1 - #6 (G), 2" C.
②	2 - #12 AWG, 2 - #10 AWG, & 1 - #10 (G), 0.75" C. (BLOCK HTR, BATT. CHR.G.)
③	4 - #12 AWG, 1 - #12 (G), 0.75" C. (GEN START / STOP FROM ATS)

## EQUIPMENT SCHEDULE

①	120/240V, 3-PHASE, 80 KW DIESEL GENERATOR IN ALUMINUM WEATHERPROOF ENCLOSURE WIND RATED FOR THE INSTALLED LOCATION PER THE LATEST EDITION OF THE FLORIDA BUILDING CODE.  PROVIDE WITH 150A, 3 POLE, OUTPUT CIRCUIT BREAKER. OUTPUT BREAKER SIZING IS IMPORTANT TO COORDINATE WITH THE CABLE SIZES AND ATS SWITCH RATING.  PROVIDE WITH 120VAC BATTERY CHARGER AND 120VAC BLOCK HEATER (1500W MAX).  MANUFACTURER SHALL INSURE GENERATOR WILL START AND RUN ALL LOADS SHOWN. MOTOR STARTING IS DOL. UPSIZED ALTERNATOR MAY BE REQUIRED. GENSET MANUFACTURER TO SIZE APPROPRIATELY.  PROVIDE 1 DAY OF STARTUP AND TESTING IN THE BID.  PROVIDE WITH SUB-BASE FUEL TANK WITH CAPACITY TO RUN GENERATOR FULLY LOADED FOR 24HRS. FUEL TANK SHALL MEET ALL APPLICABLE FLORIDA DEP REQUIREMENTS.
②	ATS - 120/240V, 150 AMP, 18KAIC WITHSTAND RATING, 3-POLE WITH SOLID NEUTRAL, NEMA 4X STAINLESS STEEL ENCLOSURE. ATS SHALL HAVE INTEGRAL SURGE PROTECTIVE DEVICE.
③	FUSED HEAVY DUTY DISCONNECT 120/240V, 200 AMP, 3-POLE WITH SOLID NEUTRAL & GROUND, NEMA 4X STAINLESS STEEL ENCLOSURE. FURNISH WITH 150A CLASS RK5 FUSES. SCHNEIDER ELECTRIC OR EQUAL.



PARTIAL ELECTRICAL RISER DIAGRAM

NO.	DATE	APPR.	REVISION:	2598 FRONT STREET LIFT STATION 15HP DUPLEX 120/240V THREE PHASE		CITY OF COTTONDALE - LIFT STATIONS GENERATOR ADDITIONS COTTONDALE, FLORIDA		CHAD HALL, P.E. ELECTRICAL ENGINEER FL License # 65846		DATE: 07/29/2024	PROJECT NO. XXXX
1										SCALE: NONE	SHEET
2										DRAWN: CEH	EG4
3										CHECKED: CEH	
4											
5											

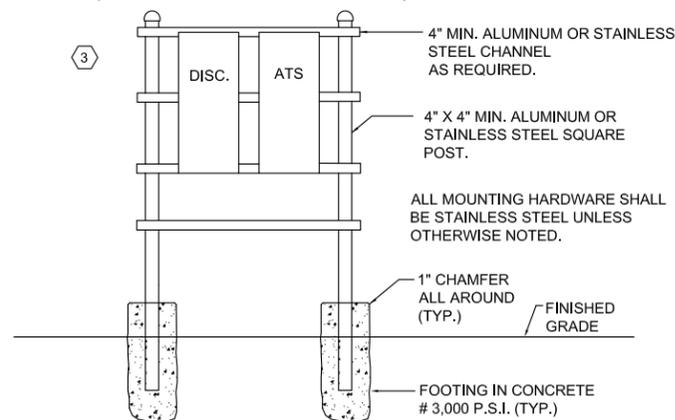
## GENERAL NOTES

- THE SCOPE OF WORK IS TO MODIFY THE EXISTING ELECTRICAL AS REQUIRED TO ADD A NEW PERMANENTLY MOUNTED GENERATOR AND ATS SWITCH AS WELL AS A NEW SERVICE DISCONNECT. THE SCOPE INCLUDES ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK. THIS COULD INCLUDE AND IS NOT LIMITED TO MOUNTING RACK MODIFICATIONS OR ADDITIONS, RE-RUNNING CONDUIT AND WIRING AS REQUIRED TO AVOID ANY SPLICES, ETC.
- ALL WORK SHALL COMPLY WITH 2020 NEC AND ALL APPLICABLE LOCAL CODES.
- ALL ABOVE GRADE CONDUIT SHALL BE ALUMINUM RIGID (SEALTITE FLEX SHALL BE ACCEPTABLE) UNLESS OTHERWISE NOTED AND/OR REQUIRED BY THE NEC CODE FOR THE AREA & CONDITIONS OF INSTALLATION. ALL BELOW GRADE CONDUIT SHALL BE RIGID PVC. CONDUITS TO THE WETWELL SHALL BE RIGID SCH. 80 PVC IF REQUIRED TO BE REPLACED. ALL CONDUCTORS SHALL BE COPPER.
- GENERATOR ENCLOSURE SHALL BE BONDED TO THE ELECTRICAL SERVICE GROUNDING SYSTEM. GENERATOR NEUTRALS SHALL NOT BE BONDED AT THE GENERATORS (NOT SEPERATELY DERIVED SYSTEMS - NEUTRAL NOT SWITCHED).
- ENSURE MAIN BONDING JUMPER IS INSTALLED ONLY AT THE SERVICE ENTRANCE AND NO OTHER LOCATIONS. STATIONS WITH EXISTING DOUBLE THROW SWITCHES SHALL HAVE BONDS REMOVED AND INSTALLED AT NEW SERVICE DISCONNECT SWITCHES.
- ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING PROJECT AND BRING ANY DISCREPANCIES UP TO THE ENGINEER FOR CLARIFICATION.
- WORK SHALL BE SEQUENCED SO AS TO MINIMIZE ANY DOWNTIME AT EACH LIFT STATION. BYPASS PUMPS MAY BE REQUIRED DURING CONSTRUCTION TO KEEP STATION(S) OPERATIONAL.

## KEY NOTES

- DEMO EXISTING CONDUIT AND WIRING FROM METER TO LIFT STATION CONTROL PANEL AND INSTALL NEW CONDUIT AND WIRE FROM METER TO NEW SERVICE DISCONNECT AND FROM THERE TO NEW ATS AND ALL OTHER EQUIPMENT AS SHOWN. INSTALL MAIN BONDING JUMPER AT NEW SERVICE DISCONNECT AND ENSURE NO OTHER BONDING JUMPERS ARE INSTALLED DOWNSTREAM OF NEW SERVICE DISCONNECT PER NEC. REUSE EXISTING GROUNDING ELECTRODE SYSTEM.
- MODIFY EXISTING CONTROL PANEL AS REQUIRED TO ADD NEW 120VAC CIRCUITS TO FEED NEW GENERATOR BATTERY CHARGER & BLOCK HEATER (INSURE THESE ARE NOT ON THE STINGER LEG OF 240V SERVICES). ADD CIRCUIT BREAKERS TO EXISTING CONTROL PANEL AS REQUIRED. PROVIDE SEPARATE CIRCUITS FOR BATTERY CHARGER (15A BREAKER) & BLOCK HEATER (20A BREAKER). GENERATOR BLOCK HEATER IS 1500W. BREAKERS SHALL BE 10KAIC RATED UNIT MOUNTED (SCHNEIDER QO OR EQUAL).
- PROVIDE AND FIELD LOCATE NEW EQUIPMENT MOUNTING RACK AS REQUIRED FOR NEW RACK MOUNTED PANELS.
- INSTALL NEW 3/4" X 10" GROUNDING ELECTRODE AT NEW SERVICE DISCONNECT AND CONNECT TO THE EXISTING GROUNDING ELECTRODE WITH #4 COPPER.

(PROVIDE VERTICAL SUPPORT EVERY 48")



DETAIL - ATS & DISCONNECT RACK

## LOAD CALCULATION

LOAD	CONNECTED				
	KVA	HP	AMPS	VOLTAGE	PHASE
PUMP NO. 1		7.5	22	240	3
PUMP NO. 2		7.5	22	240	3
CONTROL POWER & MISC.	3		12.5	240/120	1
TOTAL			56.5		
25% OF LARGEST MOTOR			5.5		
CONNECTED + 25% OF LARGEST MOTOR			62		

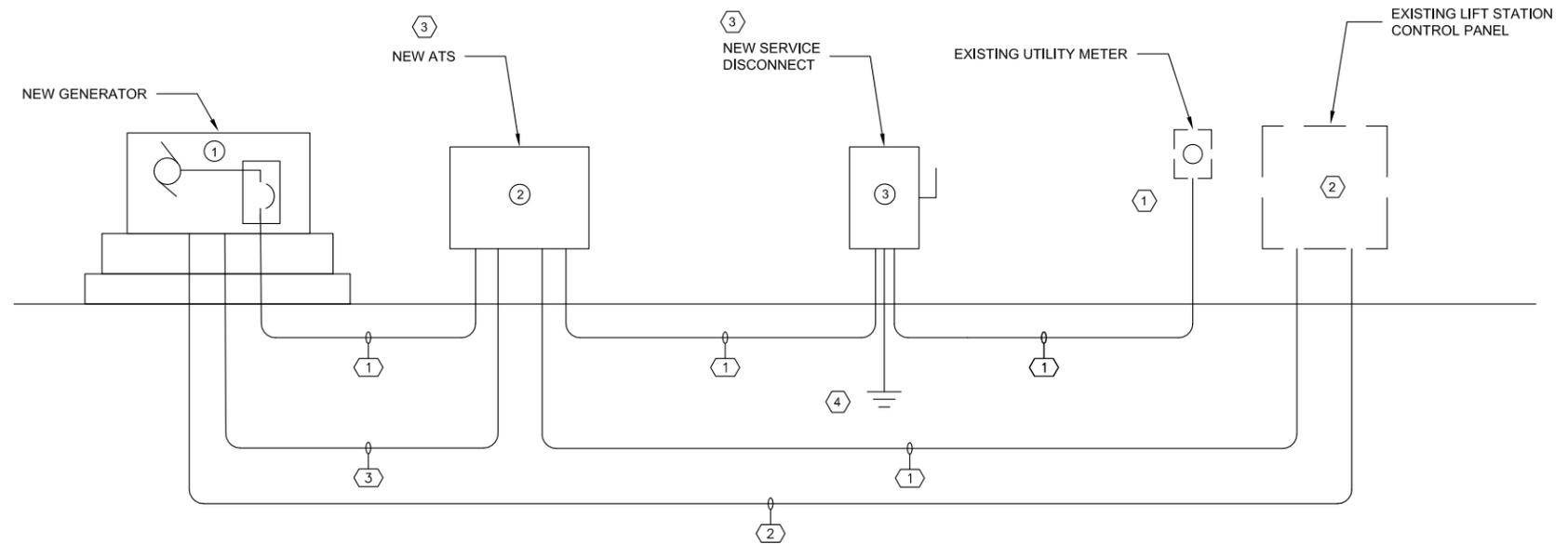
## CONDUIT AND WIRE LEGEND

(NUMBERS REFERENCE THIS SHEET ONLY)

NO.	DESCRIPTION
①	4 - #3 AWG, 1 - #8 (G), 1.5" C.
②	2 - #12 AWG, 2 - #10 AWG, & 1 - #10 (G), 0.75" C. (BLOCK HTR, BATT. CHR.G.)
③	4 - #12 AWG, 1 - #12 (G), 0.75" C. (GEN START / STOP FROM ATS)

## EQUIPMENT SCHEDULE

①	120/240V, 3-PHASE, 40 KW DIESEL GENERATOR IN ALUMINUM WEATHERPROOF ENCLOSURE WIND RATED FOR THE INSTALLED LOCATION PER THE LATEST EDITION OF THE FLORIDA BUILDING CODE.  PROVIDE WITH 100A, 3 POLE, OUTPUT CIRCUIT BREAKER. OUTPUT BREAKER SIZING IS IMPORTANT TO COORDINATE WITH THE CABLE SIZES AND ATS SWITCH RATING.  PROVIDE WITH 120VAC BATTERY CHARGER AND 120VAC BLOCK HEATER (1500W MAX).  MANUFACTURER SHALL INSURE GENERATOR WILL START AND RUN ALL LOADS SHOWN. MOTOR STARTING IS DOL. UPSIZED ALTERNATOR MAY BE REQUIRED. GENSET MANUFACTURER TO SIZE APPROPRIATELY.  PROVIDE 1 DAY OF STARTUP AND TESTING IN THE BID.  PROVIDE WITH SUB-BASE FUEL TANK WITH CAPACITY TO RUN GENERATOR FULLY LOADED FOR 24HRS. FUEL TANK SHALL MEET ALL APPLICABLE FLORIDA DEP REQUIREMENTS.
②	ATS - 120/240V, 100 AMP, 14KAIC WITHSTAND RATING, 3-POLE WITH SOLID NEUTRAL, NEMA 4X STAINLESS STEEL ENCLOSURE. ATS SHALL HAVE INTEGRAL SURGE PROTECTIVE DEVICE.
③	FUSED HEAVY DUTY DISCONNECT 120/240V, 100 AMP, 3-POLE WITH SOLID NEUTRAL & GROUND, NEMA 4X STAINLESS STEEL ENCLOSURE. FURNISH WITH 100A CLASS RK5 FUSES. SCHNEIDER ELECTRIC OR EQUAL.



PARTIAL ELECTRICAL RISER DIAGRAM

NO.	DATE	APPR.	REVISION:
1			
2			
3			
4			
5			

2798 GLASTEL STREET LIFT STATION  
7.5HP DUPLEX  
120/240V THREE PHASE

CITY OF COTTONDALE - LIFT STATIONS  
GENERATOR ADDITIONS  
COTTONDALE, FLORIDA

CHAD HALL, P.E.  
ELECTRICAL ENGINEER  
FL License # 65846

DATE: 07/29/2024	PROJECT NO. XXXX
SCALE: NONE	
DRAWN: CEH	SHEET EG5
CHECKED: CEH	

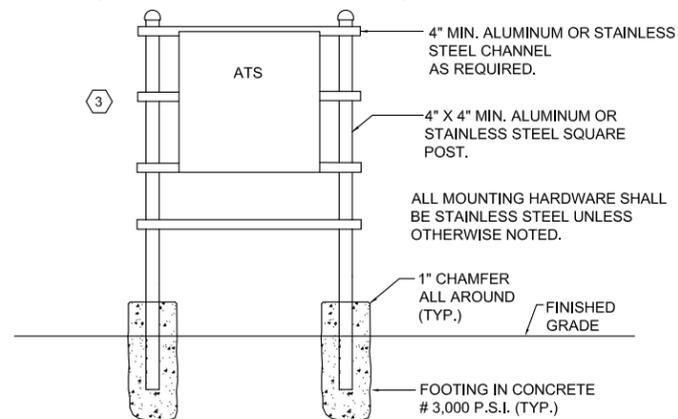
## GENERAL NOTES

1. THE SCOPE OF WORK IS TO MODIFY THE EXISTING ELECTRICAL AS REQUIRED TO ADD A NEW PERMANENTLY MOUNTED GENERATOR AND ATS SWITCH AS WELL AS A NEW SERVICE DISCONNECT. THE SCOPE INCLUDES ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK. THIS COULD INCLUDE AND IS NOT LIMITED TO MOUNTING RACK MODIFICATIONS OR ADDITIONS, RE-RUNNING CONDUIT AND WIRING AS REQUIRED TO AVOID ANY SPLICES, ETC.
2. ALL WORK SHALL COMPLY WITH 2020 NEC AND ALL APPLICABLE LOCAL CODES.
3. ALL ABOVE GRADE CONDUIT SHALL BE ALUMINUM RIGID (SEALTITE FLEX SHALL BE ACCEPTABLE) UNLESS OTHERWISE NOTED AND/OR REQUIRED BY THE NEC CODE FOR THE AREA & CONDITIONS OF INSTALLATION. ALL BELOW GRADE CONDUIT SHALL BE RIGID PVC. CONDUITS TO THE WETWELL SHALL BE RIGID SCH. 80 PVC IF REQUIRED TO BE REPLACED. ALL CONDUCTORS SHALL BE COPPER.
4. GENERATOR ENCLOSURE SHALL BE BONDED TO THE ELECTRICAL SERVICE GROUNDING SYSTEM. GENERATOR NEUTRALS SHALL NOT BE BONDED AT THE GENERATORS (NOT SEPERATELY DERIVED SYSTEMS - NEUTRAL NOT SWITCHED).
5. ENSURE MAIN BONDING JUMPER IS INSTALLED ONLY AT THE SERVICE ENTRANCE AND NO OTHER LOCATIONS. STATIONS WITH EXISTING DOUBLE THROW SWITCHES SHALL HAVE BONDS REMOVED AND INSTALLED AT NEW SERVICE DISCONNECT SWITCHES.
6. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING PROJECT AND BRING ANY DISCREPANCIES UP TO THE ENGINEER FOR CLARIFICATION.
7. WORK SHALL BE SEQUENCED SO AS TO MINIMIZE ANY DOWNTIME AT EACH LIFT STATION. BYPASS PUMPS MAY BE REQUIRED DURING CONSTRUCTION TO KEEP STATION(S) OPERATIONAL.

## KEY NOTES

- 1 DEMO EXISTING CONDUIT AND WIRING FROM SERVICE DISCONNECT TO LIFT STATION CONTROL PANEL AND INSTALL NEW CONDUIT AND WIRE FROM SERVICE DISCONNECT TO ATS & ALL OTHER EQUIPMENT AS SHOWN.
- 2 MODIFY EXISTING CONTROL PANEL AS REQUIRED TO ADD NEW 120VAC CIRCUITS TO FEED NEW GENERATOR BATTERY CHARGER & BLOCK HEATER (INSURE THESE ARE NOT ON THE STINGER LEG OF 240V SERVICES). ADD CIRCUIT BREAKERS TO EXISTING CONTROL PANEL AS REQUIRED. PROVIDE SEPARATE CIRCUITS FOR BATTERY CHARGER (15A BREAKER) & BLOCK HEATER (20A BREAKER). GENERATOR BLOCK HEATER IS 1500W. BREAKERS SHALL BE 10KAIC RATED UNIT MOUNTED (SCHNEIDER QO OR EQUAL).
- 3 PROVIDE AND FIELD LOCATE NEW EQUIPMENT MOUNTING RACK AS REQUIRED FOR NEW RACK MOUNTED PANELS.

(PROVIDE VERTICAL SUPPORT EVERY 48")



DETAIL - ATS RACK

## LOAD CALCULATION

LOAD	CONNECTED				
	KVA	HP	AMPS	VOLTAGE	PHASE
PUMP NO. 1		5	15.2	240	3
PUMP NO. 2		5	15.2	240	3
CONTROL POWER & MISC.	3		12.5	240/120	1
TOTAL			42.9		
25% OF LARGEST MOTOR			3.8		
CONNECTED + 25% OF LARGEST MOTOR			46.7		

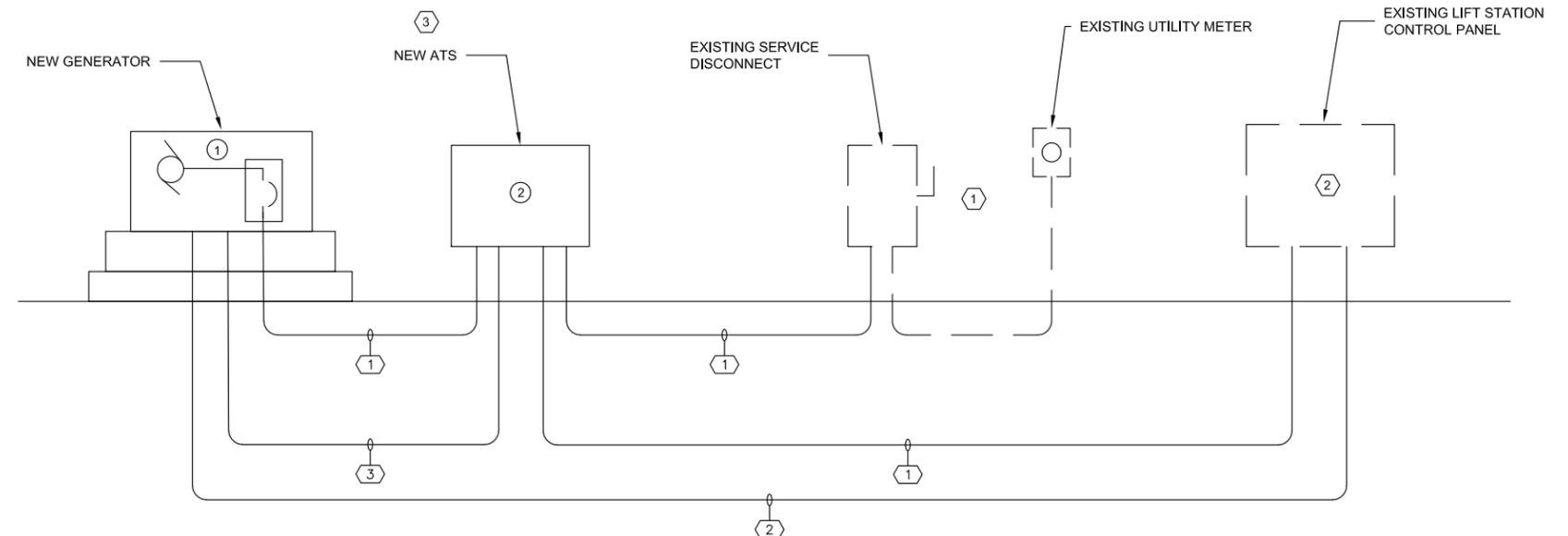
## CONDUIT AND WIRE LEGEND

(NUMBERS REFERENCE THIS SHEET ONLY)

NO.	DESCRIPTION
①	4 - #3 AWG, 1 - #8 (G), 1.5" C.
②	2 - #12 AWG, 2- #10 AWG, & 1 - #10 (G), 0.75" C. (BLOCK HTR, BATT. CHR.G.)
③	4 - #12 AWG, 1- #12 (G), 0.75" C. (GEN START / STOP FROM ATS)

## EQUIPMENT SCHEDULE

①	<p>120/240V, 3-PHASE, 40 KW DIESEL GENERATOR IN ALUMINUM WEATHERPROOF ENCLOSURE WIND RATED FOR THE INSTALLED LOCATION PER THE LATEST EDITION OF THE FLORIDA BUILDING CODE.</p> <p>PROVIDE WITH 100A, 3 POLE, OUTPUT CIRCUIT BREAKER. OUTPUT BREAKER SIZING IS IMPORTANT TO COORDINATE WITH THE CABLE SIZES AND ATS SWITCH RATING.</p> <p>PROVIDE WITH 120VAC BATTERY CHARGER AND 120VAC BLOCK HEATER (1500W).</p> <p>MANUFACTURER SHALL INSURE GENERATOR WILL START AND RUN ALL LOADS SHOWN. MOTOR STARTING IS DOL. UPSIZED ALTERNATOR MAY BE REQUIRED. GENSET MANUFACTURER TO SIZE APPROPRIATELY.</p> <p>PROVIDE 1 DAY OF STARTUP AND TESTING IN THE BID.</p> <p>PROVIDE WITH SUB-BASE FUEL TANK WITH CAPACITY TO RUN GENERATOR FULLY LOADED FOR 24HRS. FUEL TANK SHALL MEET ALL APPLICABLE FLORIDA DEP REQUIREMENTS.</p>
②	<p>ATS - 120/240V, 100 AMP, 14KAIC, 3-POLE WITH SOLID NEUTRAL, NEMA 4X STAINLESS STEEL ENCLOSURE. ATS SHALL HAVE INTEGRAL SURGE PROTECTIVE DEVICE.</p>



PARTIAL ELECTRICAL RISER DIAGRAM

NO.	DATE	APPR.	REVISION:
1			
2			
3			
4			
5			

3351 CADDY ROAD LIFT STATION  
5HP DUPLEX  
120/240V THREE PHASE

CITY OF COTTONDALE - LIFT STATIONS  
GENERATOR ADDITIONS  
COTTONDALE, FLORIDA

CHAD HALL, P.E.  
ELECTRICAL ENGINEER  
FL License # 65846

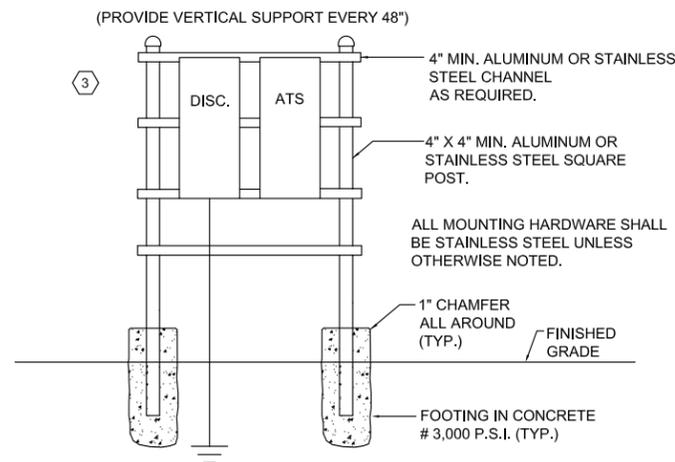
DATE: 07/29/2024	PROJECT NO. XXXX
SCALE: NONE	
DRAWN: CEH	SHEET EG6
CHECKED: CEH	

## GENERAL NOTES

1. THE SCOPE OF WORK IS TO MODIFY THE EXISTING ELECTRICAL AS REQUIRED TO ADD A NEW PERMANENTLY MOUNTED GENERATOR AND ATS SWITCH AS WELL AS A NEW SERVICE DISCONNECT. THE SCOPE INCLUDES ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK. THIS COULD INCLUDE AND IS NOT LIMITED TO MOUNTING RACK MODIFICATIONS OR ADDITIONS, RE-RUNNING CONDUIT AND WIRING AS REQUIRED TO AVOID ANY SPLICES, ETC.
2. ALL WORK SHALL COMPLY WITH 2020 NEC AND ALL APPLICABLE LOCAL CODES.
3. ALL ABOVE GRADE CONDUIT SHALL BE ALUMINUM RIGID (SEALTITE FLEX SHALL BE ACCEPTABLE) UNLESS OTHERWISE NOTED AND/OR REQUIRED BY THE NEC CODE FOR THE AREA & CONDITIONS OF INSTALLATION. ALL BELOW GRADE CONDUIT SHALL BE RIGID PVC. CONDUITS TO THE WETWELL SHALL BE RIGID SCH. 80 PVC IF REQUIRED TO BE REPLACED. ALL CONDUCTORS SHALL BE COPPER.
4. GENERATOR ENCLOSURE SHALL BE BONDED TO THE ELECTRICAL SERVICE GROUNDING SYSTEM. GENERATOR NEUTRALS SHALL NOT BE BONDED AT THE GENERATORS (NOT SEPERATELY DERIVED SYSTEMS - NEUTRAL NOT SWITCHED).
5. ENSURE MAIN BONDING JUMPER IS INSTALLED ONLY AT THE SERVICE ENTRANCE AND NO OTHER LOCATIONS. STATIONS WITH EXISTING DOUBLE THROW SWITCHES SHALL HAVE BONDS REMOVED AND INSTALLED AT NEW SERVICE DISCONNECT SWITCHES.
6. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING PROJECT AND BRING ANY DISCREPANCIES UP TO THE ENGINEER FOR CLARIFICATION.
7. WORK SHALL BE SEQUENCED SO AS TO MINIMIZE ANY DOWNTIME AT EACH LIFT STATION. BYPASS PUMPS MAY BE REQUIRED DURING CONSTRUCTION TO KEEP STATION(S) OPERATIONAL.

## KEY NOTES

- 1 DEMO EXISTING CONDUIT AND WIRING FROM EXISTING METER TO DOUBLE THROW SWITCH AND INSTALL NEW CONDUIT AND WIRE FROM METER TO NEW SERVICE DISCONNECT & ALL OTHER EQUIPMENT AS SHOWN. REMOVE MAIN BONDING JUMPER FROM EXISTING DOUBLE THROW SWITCH (MAIN BONDING JUMPER SHALL NOW BE IN THE NEW SERVICE DISCONNECT PER NEC ARTICLE 250).
- 2 MODIFY EXISTING CONTROL PANEL AS REQUIRED TO ADD NEW 120VAC CIRCUITS TO FEED NEW GENERATOR BATTERY CHARGER & BLOCK HEATER (ENSURE THESE ARE NOT ON THE STINGER LEG OF 240V SERVICES). ADD CIRCUIT BREAKERS TO EXISTING CONTROL PANEL AS REQUIRED. PROVIDE SEPARATE CIRCUITS FOR BATTERY CHARGER (15A BREAKER) & BLOCK HEATER (20A BREAKER). GENERATOR BLOCK HEATER IS 1500W. BREAKERS SHALL BE 10KAIC RATED UNIT MOUNTED (SCHNEIDER QO OR EQUAL).
- 3 PROVIDE AND FIELD LOCATE NEW EQUIPMENT MOUNTING RACK AS REQUIRED FOR NEW RACK MOUNTED PANELS.
- 4 INSTALL NEW 3/4" X 10' GROUNDING ELECTRODE AT NEW SERVICE DISCONNECT AND CONNECT TO THE EXISTING GROUNDING ELECTRODE WITH #4 COPPER.

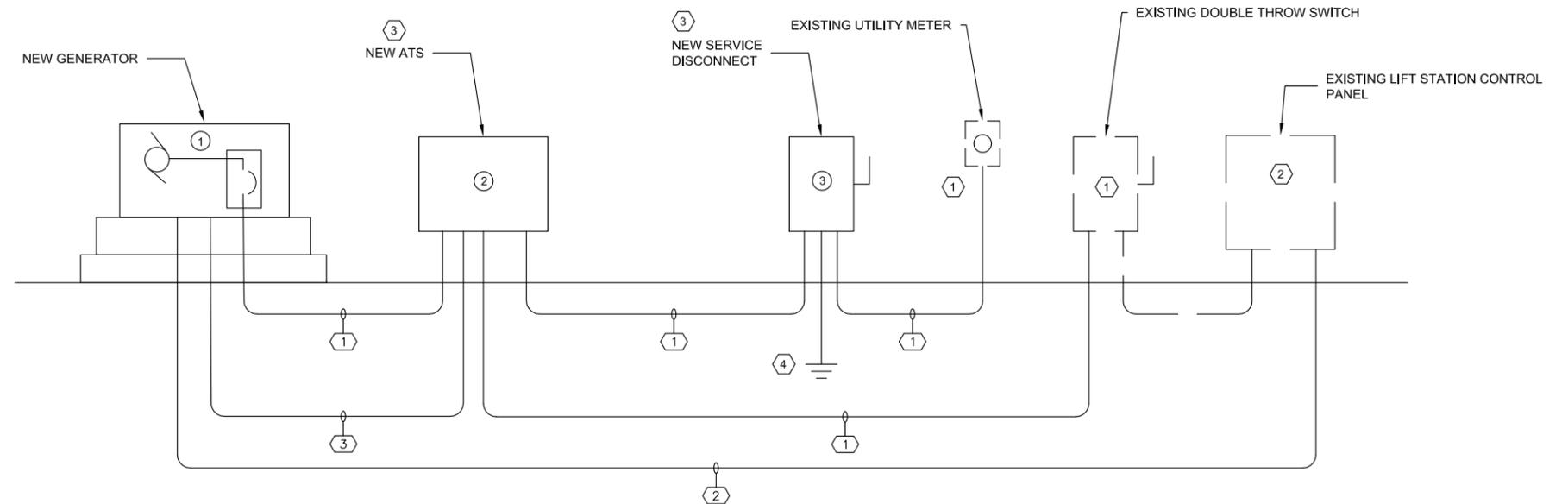


DETAIL - ATS & DISCONNECT RACK

LOAD CALCULATION					
LOAD	CONNECTED				
	KVA	HP	AMPS	VOLTAGE	PHASE
PUMP NO. 1		3	9.6	240	3
PUMP NO. 2		3	9.6	240	3
CONTROL POWER & MISC.	3		12.5	240/120	1
TOTAL			31.7		
25% OF LARGEST MOTOR			2.4		
CONNECTED + 25% OF LARGEST MOTOR			34.1		

CONDUIT AND WIRE LEGEND	
(NUMBERS REFERENCE THIS SHEET ONLY)	
NO.	DESCRIPTION
1	4 - #4 AWG, 1 - #8 (G), 1.5" C.
2	2 - #12 AWG, 2- #10 AWG, & 1 - #10 (G), 0.75" C. (BLOCK HTR, BATT. CHR.G.)
3	4 - #12 AWG, 1- #12 (G), 0.75" C. (GEN START / STOP FROM ATS)

EQUIPMENT SCHEDULE	
1	120/240V, 3-PHASE, 20 KW DIESEL GENERATOR IN ALUMINUM WEATHERPROOF ENCLOSURE WIND RATED FOR THE INSTALLED LOCATION PER THE LATEST EDITION OF THE FLORIDA BUILDING CODE.  PROVIDE WITH 80A, 3 POLE, OUTPUT CIRCUIT BREAKER. OUTPUT BREAKER SIZING IS IMPORTANT TO COORDINATE WITH THE CABLE SIZES AND ATS SWITCH RATING.  PROVIDE WITH 120VAC BATTERY CHARGER AND 120VAC BLOCK HEATER (1500W MAX).  MANUFACTURER SHALL INSURE GENERATOR WILL START AND RUN ALL LOADS SHOWN. MOTOR STARTING IS DOL. UPSIZED ALTERNATOR MAY BE REQUIRED. GENSET MANUFACTURER TO SIZE APPROPRIATELY.  PROVIDE 1 DAY OF STARTUP AND TESTING IN THE BID.  PROVIDE WITH SUB-BASE FUEL TANK WITH CAPACITY TO RUN GENERATOR FULLY LOADED FOR 24HRS. FUEL TANK SHALL MEET ALL APPLICABLE FLORIDA DEP REQUIREMENTS.
2	ATS - 120/240V, 100 AMP, 14KAIC, 3-POLE WITH SOLID NEUTRAL, NEMA 4X STAINLESS STEEL ENCLOSURE. ATS SHALL HAVE INTEGRAL SURGE PROTECTIVE DEVICE.
3	FUSED HEAVY DUTY DISCONNECT 120/240V, 100 AMP, 3-POLE WITH SOLID NEUTRAL & GROUND, NEMA 4X STAINLESS STEEL ENCLOSURE. FURNISH WITH 80A CLASS RK5 FUSES. SCHNEIDER ELECTRIC OR EQUAL.



PARTIAL ELECTRICAL RISER DIAGRAM

NO.	DATE	APPR.	REVISION:
1			
2			
3			
4			
5			

2752 FRONT STREET LIFT STATION  
3HP DUPLEX  
120/240V THREE PHASE

CITY OF COTTONDALE - LIFT STATIONS  
GENERATOR ADDITIONS  
COTTONDALE, FLORIDA

CHAD HALL, P.E.  
ELECTRICAL ENGINEER  
FL License # 65846

DATE: 07/29/2024	PROJECT NO. XXXX
SCALE: NONE	
DRAWN: CEH	SHEET EG7
CHECKED: CEH	