GCEC HURRICANE SAFE ROOM

722 WEST HIGHWAY 22
WEWAHITCHKA, FL 32465

100% DESIGN

2.6.24



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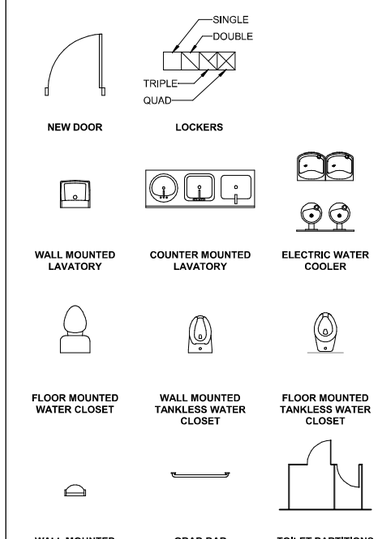
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STANDARD ABBREVIATIONS

AB	ANCHOR BOLT	FLR	FLOOR	PTR	PAPER TOWEL RECEPTACLE
ACST	ACOUSTICAL)	FRP	FIBER REINFORCED PLASTIC	PVC	POLYVINYL CHLORIDE
ADDL	ADDITIONAL	FTG	FOOTING	PVG	PAVING
ADDN	ADDITION	FURG C	FURRING CHANNEL		
ADH	ADHESIVE	FURN	FURNACE	R	RISER, RADIUS, THERMAL
ADJ	ADJACENT, ADJOINING, ADJUSTABLE	FWC	FABRIC WALLCOVERING		RESISTANCE (R-VALUE)
				RB	RESILIENT BASE
AED	AUTOMATED EXTERNAL DEFIBRILLATOR	GA	GAGE, GAUGE	RCP	REFLECTED CEILING PLAN
		GALV	GALVANIZED	RD	ROOF DRAIN, ROAD
AFF	ABOVE FINISH FLOOR	GB	GRAB BAR	REF	REFERENCE, REFRIGERATOR
ALT	ALTERNATE	GFRC	GLASS-FIBER REINFORCED	REINF	REINFORCE
ALUM	ALUMINUM		CONCRETE	REQD	REQUIRED
ANCH	ANCHOR	GL	GLASS	RF	RESILIENT FLOORING
ANOD	ANODIZE(D)	GL BLK	GLASS BLOCK	RFG	ROOFING
AP	ACCESS PANEL	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	RFM	REMOVABLE FLOOR MAT
APC	ACOUSTICAL PANEL CEILING	GRFG	GLASS-FIBER REINFORCED GYPSUM	RH	RIGHT HAND
APPROX	APPROXIMATE	GT	GROUT	RO	ROUGH OPENING
ASPH	ASPHALT	GWH	GAS FIRED WATER HEATER	RSF	RESINOUS FLOORING
AUTO	AUTOMATIC	GYP BD	GYPSUM WALL BOARD	RST	REINFORCING STEEL
AVE	AVERAGE			RTF	RESILIENT TILE FLOORING
AWT	ACOUSTICAL WALL TREATMENT	H	HIGH, HATCH (ROOF)	RTU	ROOF TOP UNIT
		HB	HOSE BIB	RV	ROOF VENT, ROOF VENTILATOR
BAL SHT	BALANCE SHEET	HDNR	HARDENER		
BC	BRICK COLOR	HDW	HARDWARE	SC	SEALED CONCRETE
BCS	BABY CHANGING STATION	HDWD	HARDWOOD	SCHED	SCHEDULE
BD	BOARD	HM	HOLLOW METAL	SCR	SHOWER CURTAIN ROD
BG	BUMPER GUARD	HORIZ	HORIZONTAL	SCWD	SOLID CORE WOOD DOOR
BITUM	BITUMINOUS	HR	HANDRAIL	SD	SOAD DISPENSER
BLDG	BUILDING	HT	HEIGHT	SECT	SECTION
BLKG	BLOCKING (WOOD)	HTG	HEATING	SF	STOREFRONT
BOT	BOTTOM	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	SH	SHINGLES, SINGLE HUNG (WINDOW)
BRDG	BRIDGING			SHT	SHEET
BRG	BEARING			SHTHG	SHEATHING
BRK PV	BRICK PAVERS	ID	INSIDE DIAMETER, INSIDE	SHV	SHELVING
BRKT	BRACKET		DIMENSION	SLNT	SEALANT
BSMT	BASEMENT	IF	INSIDE FACE	SND	SANITARY NAPKIN DISPENSER
BTWN	BETWEEN	INCL	INCLUDED	SNDU	SANITARY NAPKIN DISPOSAL UNIT
BUR	BUILT UP ROOFING	INSUL	INSULATION	SOG	SLAB ON GRADE
		INT	INTERIOR	SPCG	SPACING
CAB	CABINET	INV	INVERT	SPEC	SPECIFICATION
CB	CHALKBOARD			SPKR	SPEAKER
CC	CUBICLE CURTAIN	JT	JOINT	SQ	SQUARE
CCT	CUBICLE CURTAIN TRACK			SS	SERVICE SINK , SOLID SURFACING
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	KD	KNOCKED DOWN	SST	STAINLESS STEEL, SHOWER SEAT
		KOP	KNOCK OUT PANEL	STD	STANDARD
CFMF	COLD-FORMED METAL FRAMING			STL	STEEL
CG	CORNER GUARD	L	LONG, ANGLE	STL JST	STEEL JOIST
CH	COAT HOOK	LAM	LAMINATE(D)	STL LNTL	STEEL LINTEL
CIP CONC	CAST-IN-PLACE CONCRETE	LAV	LAVATORY	STL PL	STEEL PLATE
CJ	CONTROL JOING, CONSTRUCTION JOINT	LH	LEFT HAND	STL RF DK	STEEL ROOF DECK
		LINO	LINOLEUM	STL TR	STEEL TRUSS
CLG	CEILING	LKR	LOCKER	STN	STAIN
CLR	CLEAR	LL	LIVE LOAD, LOW LEVEL	STRUCT	STRUCTURAL
CMU	CONCRETE MASONRY UNIT	LLH	LONG LEG HORIZONTAL	SUSP	SUSPEND
CNTR	COUNTER	LLV	LONG LEG VERTICAL	SV	SHEET VINYL
CO	CLEAN OUT, CASED OPENING	LT	LIGHT	SWP	SHEET WALL PROTECTION
COL	COLUMN	LVL	LEVEL	SYMM	SYMMETRICAL
COMB	COMBINATION, COMBINED	LVR	LOUVER	SYNTH	SYNTHETIC
COMP	COMPRESSIBLE				
COMPT	COMPARTMENT	MAS	MASONRY	T	TILE, TREAD
CONC	CONCRETE	MATL	MATERIAL	T&G	TONGUE AND GROOVE
CONC CTG	CONCRETE COATING	MAX	MAXIMUM	T/S	TUB/SHOWER
COND	CONDITION	MB	MARKERBOARD	TB	TOWEL BAR, TACKBOARD
CONT	CONTINUOUS	MBH	MOB/BROOM HOLDER	TC	TOILET COMPARTMENT
CONTR	CONTRACTOR	MECH	MECHANICAL	TD	TRENCH DRAIN
CORR	CORRIDOR	MED	MEDIUM	TER	TERRAZZO
CPRS	COMPRESSIBLE	MEZZ	MEZZANINE	THK	THICK
CPT	CARPET	MFR	MANUFACTURER	TOB	TOP OF BEAM
CR	CLOSET ROD	MH	MANHOLE	TOC	TOP OF CONCRETE, TOP OF CURB
CRL	CRASH RAIL	MI	MIRROR	TOF	TOP OF FOOTING
CRS	COLD-ROLLED STEEL	MIN	MINIMUM, MINUTE	TOM	TOP OF MASONRY
CTR	CENTER(S)	MISC	MISCELLANEOUS	TOS	TOP OF SLAB, TOP OF STEEL
CUH	CABINET UNIT HEATER	MO	MASONRY OPENING	TOW	TOP OF WALL
CUV	CABINET UNIT VENTILATOR	MOD	MODEL, MODULE, MODULAR	TPH	TOILET PAPER HOLDER
CW	CURTAINWALL	MSB	MOP SERVICE BASIN	TR	TOWEL RACK
		MT	MOUNT	TS	TUBE STEEL, TRANSITION STRIP
D	DEEP, DEPTH, PENNY NAIL	MTL	METAL		
DC	DISPLAY CASE			UNO	UNLESS NOTED OTHERWISE
DET	DETAIL	NDU	NEEDLE DISPOSAL UNIT		
DETN	DETENTION	NIC	NOT IN CONTRACT, NOISE ISOLATION	VCT	VINYL COMPOSITION TILE
DF	DRINKING FOUNTAIN		CLASS	VERT	VERTICAL
DIA	DIAMETER	NO	NUMBER	VIF	VERIFY IN FIELD
DIM	DIMENSION	NOM	NOMINAL	VWC	VINYL WALL COVERING
DN	DOWN	NTS	NOT TO SCALE		
DP	DECORATIVE PANEL			W	WIDE, WEST
DR	DOOR	OA	OVERALL	WC	WALL COVERING
DS	DOWNSPOUT	OC	ON CENTER	WD	WOOD, WOOD DOOR
DWG	DRAWING(S)	OD	OUTSIDE DIAMETER, OUTSIDE DIMENSION	WDW	WINDOW
				WP	WALL PATTERN, WATERPROOFING
EHD	ELECTRIC HAND DRYER	OF	OUTSIDE FACE	WT	WEIGHT, WINDOW TREATMENT
EJ	EXPANSION JOINT	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	WWF	WELDED WIRE FABRIC
EL	ELEVATION				
ELEC	ELECTRIC, ELECTRICAL	OFD	OVERFLOW DRAIN		
ELEV	ELEVATOR	OFOI	OWNER FURNISHED OWNER INSTALLED		
EMBED	EMBEDMENT				
EMER	EMERGENCY	OH	OVERHEAD		
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	OH DR	OVERHEAD DOOR		
		OP	OPERABLE PARTITION		
EQ	EQUAL	OPH	OPPOSITE HAND		
EQUIP	EQUIPMENT	OPNG	OPENING		
ES	EXPOSED STRUCTURE	OPP	OPPOSITE		
ETR	EXISTING TO REMAIN	OS	OVERFLOW SCUPPER		
EW	EACH WAY				
EWC	ELECTRIC WATER COOLER	PC	PORTLAND CEMENT, POINT		
EWH	ELECTRIC WATER HEATER		OF CURVE, POLYCARBONATE		
EXIST	EXISTING	PCC	PRECAST CONCRETE		
EXP	EXPANSION	PERIM	PERIMETER		
EXT	EXTERIOR	PJ	PROJECTOR		
		PL	PLATE, PLASTIC LAMINATE		
FAB	FABRIC	PLAS	PLASTER		
FD	FLOOR DRAIN	PLBG	PLUMBING		
FDTN	FOUNDATION	PLYWD	PLYWOOD		
FE	FIRE EXTINGUISHER	PS	PROJECTION SCREEN		
FEC	FIRE EXTINGUISHER CABINET	PSF	POUNDS PER SQUARE FOOT		
FF	FINISH FLOOR	PT	PAINT		
FHC	FIRE HOSE CABINET	PTD	PAPER TOWEL DISPENSER		
FIN	FINISH	PTDR	PAPER TOWEL DISPENSER & RECEPTACLE		
FLASH	FLASHING				
FLP	FLOOR PATTERN	PTN	PARTITION		

STANDARD DRAFTING SYMBOLS



PROJECT DATA

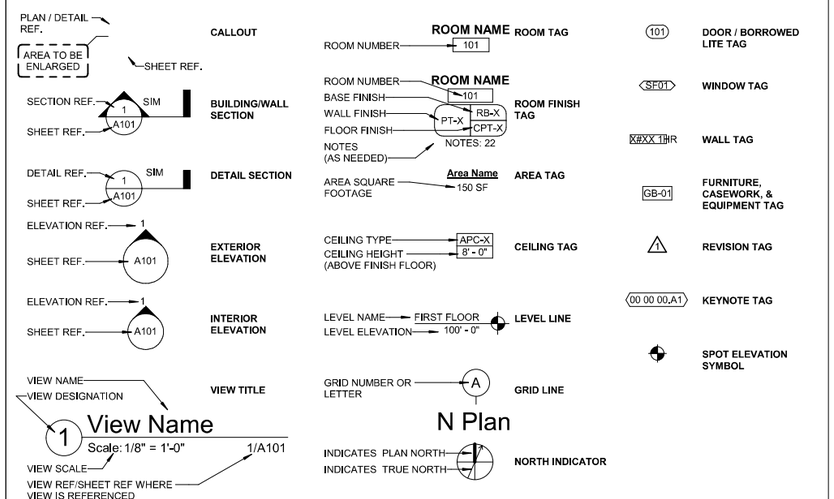
PROJECT: GCEC SAFE ROOM

OWNER: GULF COAST ELECTRIC COOPERATIVE

APPLICABLE CODES:
2020 FLORIDA BUILDING CODE - BUILDING, PLUMBING, MECHANICAL, ENERGY CONSERVATION
2020 FLORIDA ACCESSIBILITY CODE
2012 NFPA 1 FIRE CODE
2018 NFPA 101 LIFE SAFETY CODE
2017 FLORIDA FIRE PREVENTION CODE
2015 FEMA P361 GUIDELINES
2014 ICC 500 STANDARDS

REFER TO DISCIPLINE SPECIFIC GENERAL NOTES SHEETS FOR ADDITIONAL APPLICABLE CODES AND STANDARDS.

STANDARD DETAILING SYMBOLS



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C2	SITE PLAN
C3	GRADING PLAN
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Telecom

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GCEC HURRICANE SAFE ROOM

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100% DESIGN

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SCALE

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DATE 2.6.24

TITLE

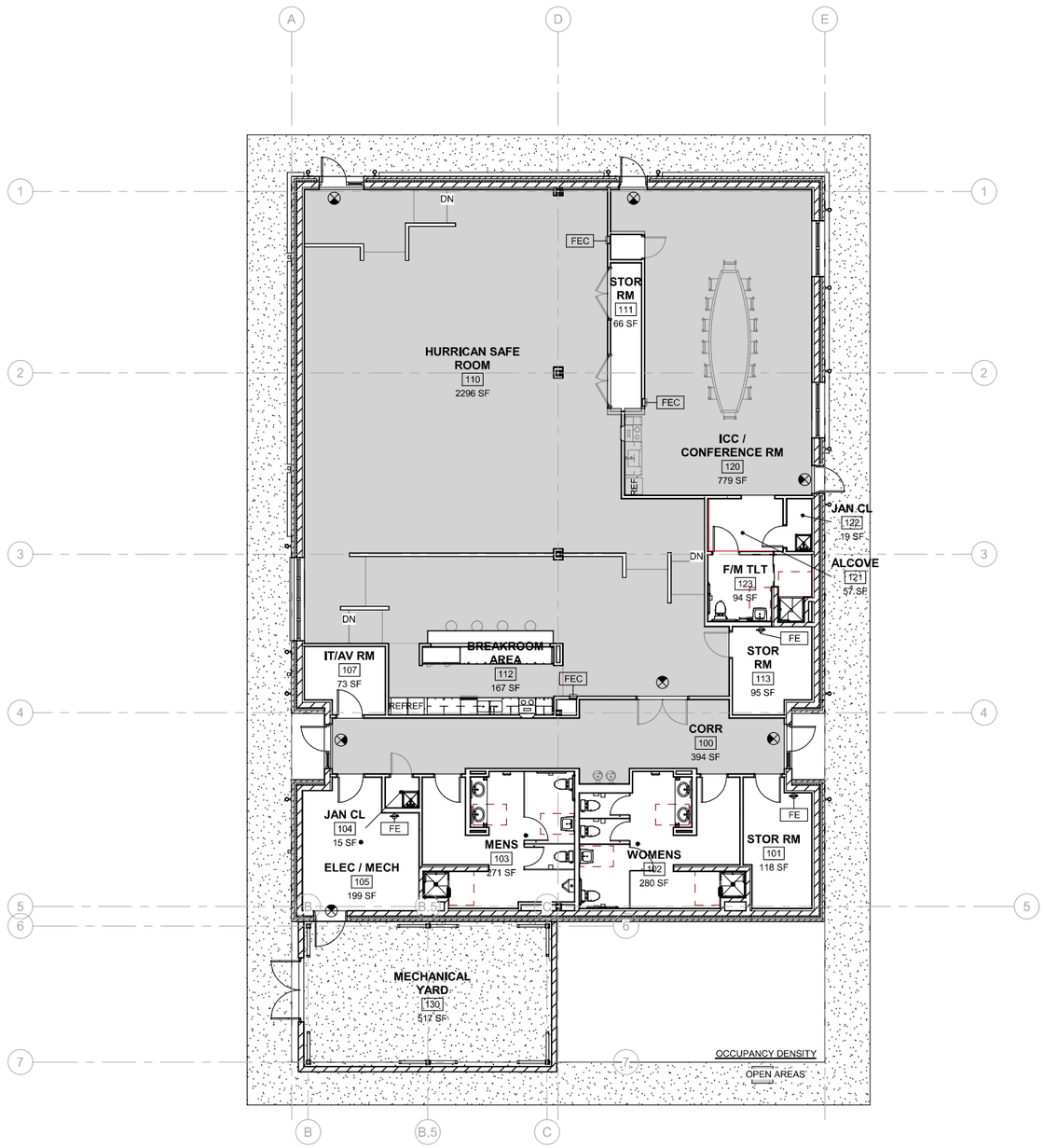
INDEX

PROJECT NO. 50150343

G-001

SHEET NO.

2/6/2024 12:39:48 PM



A1 LIFE SAFTEY FLOOR PLAN (BASED ON FEMA P-361)
Scale: 1/8" = 1'-0"

N Plan

0' 48" 96" 192"
SCALE: 1/8" = 1' - 0"

CODE ANALYSIS - NEW CONSTRUCTION — FEMA P-361

NEW BUILDING REQUIREMENTS

OCCUPANCY CLASSIFICATION : ASSEMBLY (A-3)

TYPES OF CONSTRUCTION:	IIB
PROTECTED:	NO
SPRINKLERED:	NO

OCCUPANT LOAD (FEMA TABEL B5.1)

MAXIMUM EXPECTED OCCUPANCY (NUMBER OF PEOPLE)	1/20 S.F.	3,654/ 20 = 183 MAXIMUM EXPECTED OCCUPANCY
TOTAL MAXIMUM EXPECTED OCCUPANCY		**183 OCCUPANTS**
NET AVAILABLE SQUARE FOOTAGE (OPEN AREAS)		3,654 S.F.
NET AVAILABLE SQUARE FOOTAGE (RESTROOMS, KITCHENS, STORAGE AREAS, ETC)		1,283 S.F.
INTERIOR WALLS AND COLUMNS AREAS		246 S.F.
TOTAL BUILDING AREA	INCLUDING EXTR. WALLS GROSS	5,654 S.F.
	EXCLUDING EXTR. WALLS NET	5,183 S.F.

PLUMBING — FEMA (B7.2.3) AND ICC 500, TABLE 703.2

FIXTURE PER PERSON	REQUIRED			PROVIDED		
	MEN	WOMEN	UNISEX	MEN	WOMEN	UNISEX
WATER CLOSETS - 1/50 occupants	2	2	-	2	3	1
URINALS - NOT REQUIRED	-	-	-	1	-	-
LAVATORIES - 1/100 occupants	1	1	-	3	3	1
SHOWERS - NOT REQUIRED	-			1	1	1
UTILITY SINK, MOP SINK - NOT REQUIRED	-			2 SERVICE SINK		
WATER FOUNTAIN - 1 PER 500	-			(1) HI / LO = 1		

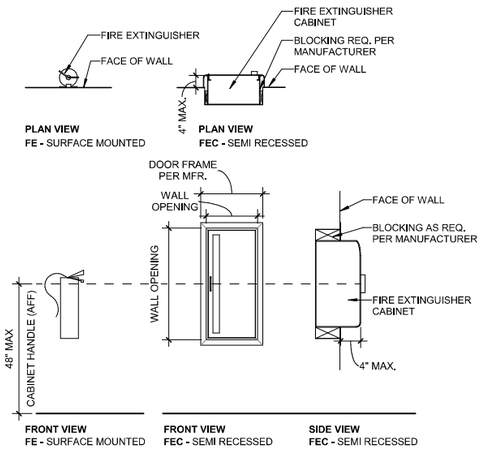
PROJECT DATA

PROJECT: GCEC SAFE ROOM

OWNER: GULF COAST ELECTRIC COOPERATIVE

APPLICABLE CODES:
2020 FLORIDA BUILDING CODE - BUILDING, PLUMBING, MECHANICAL, ENERGY CONSERVATION
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2015 FEMA P361 GUIDELINES
2014 ICC 500 STANDARDS

REFER TO DISCIPLINE SPECIFIC GENERAL NOTES SHEETS FOR ADDITIONAL APPLICABLE CODES AND STANDARDS.



NOTE: FIRE EXTINGUISHER CABINET SHALL BE RATED TO THE SAME LEVEL AS THE WALL IN WHICH IT IS INSTALLED

A4 FIRE EXTINGUISHER DETAIL
Scale: 3/4" = 1'-0"

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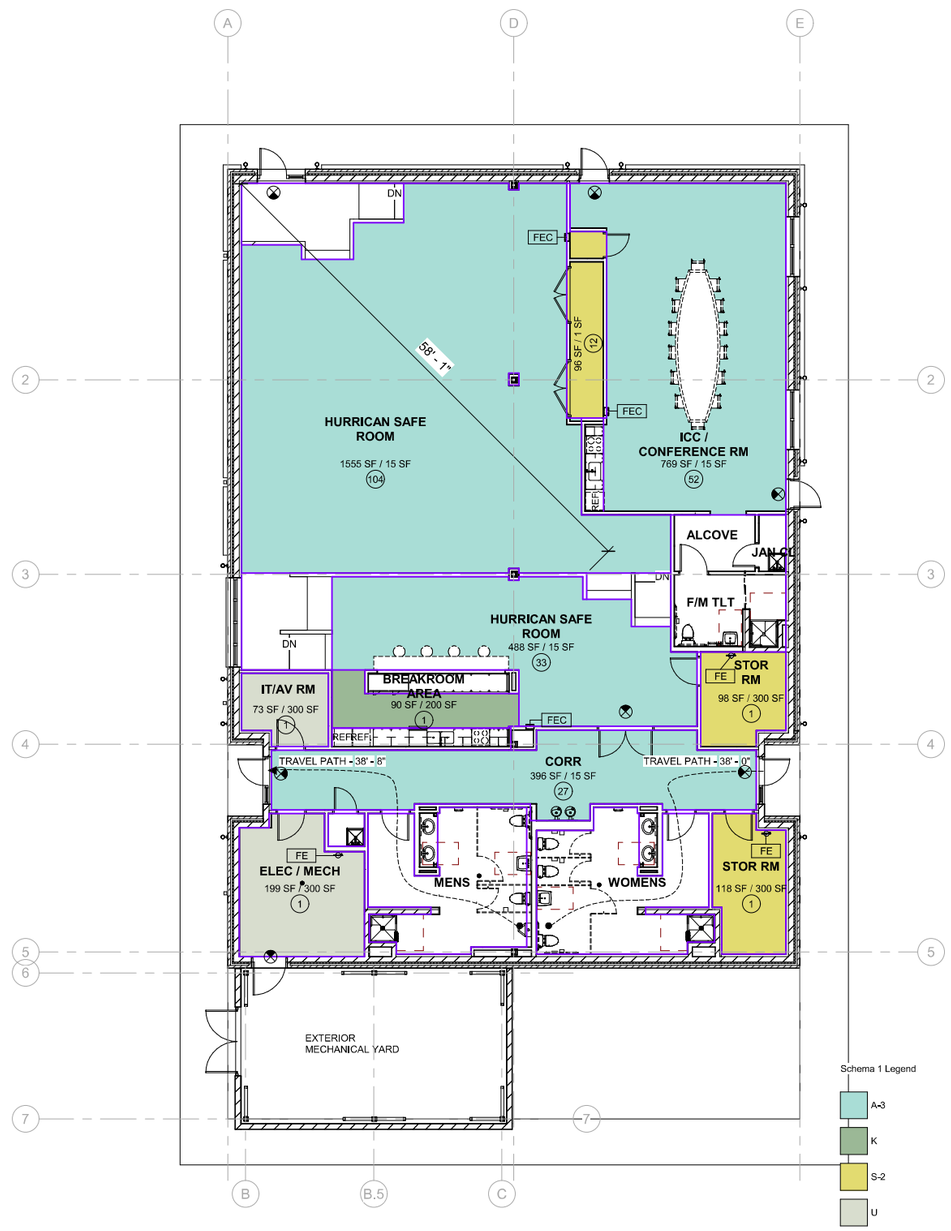
FEMA INFORMATION

PROJECT NO. 50150343

G-100

SHEET NO.

2/6/2024 12:39:49 PM



A1 LIFE SAFTEY FLOOR PLAN (BASED ON FLORIDA BUILDING CODE)
Scale: 1/8" = 1'-0"

0' 48" 96" 192"
SCALE: 1/8" = 1' - 0"

N Plan

CODE ANALYSIS - NEW CONSTRUCTION — FLORIDA BUILDING CODE 2022

NEW BUILDING REQUIREMENTS

OCCUPANCY CLASSIFICATION : ASSEMBLY (A-3)

TYPES OF CONSTRUCTION:		IIB
PROTECTED:		NO
SPRINKLERED:		NO
	ALLOWED PER SECTION 504.3 FBC 2020	PROVIDED
BUILDING HEIGHT - TABLE 504.3	75' (FEET)	16' (FEET)
HEIGHT INCREASE	N/A	
NUMBER OF STORIES (A-3) - TABLE 504.4	3 (THREE)	1 (ONE)
TOTAL BUILDING AREA ALLOWED FOR (A-3)	38,000 S.F.	5,492 S.F.

OCCUPANT LOAT (FBC 2017, TABLE 1004.1.2)

ASSEMBLY (A-3)		3,215 S.F./ 15 = 215 OCCUPANTS
ACCESSORY STORAGE (S-2 AND U)		557 S.F./ 300 = 2 OCCUPANTS
ACCESSORY KITCHEN (K)		90 S.F./ 200 = 1 OCCUPANT
TOTAL OCCUPANT LOAD		**218 OCCUPANTS**

EGRESS REQUIREMENTS (FBC 2017, PER CHAPTER 10) :

OCC.	TABLE 1017.2	TABLE 1006.2.1	SEC 1020.4	TABLES 1005.3.1 & 1005.3.2		TABLE 1020.2	TABLE 1010		SEC. 1011.2
	MAX. TRAVEL TO AN EXIT	COMMON PATH OF TRAVEL	MAX. DEAD END CORRIDOR	EGRESS WIDTH INCHES/ OCC.		MIN. CORRIDOR WIDTH	MIN. OPENING WIDTH		MIN. STAIR WIDTH
				LEVEL	STAIRS		REQ'D.	PROV'D	
A-3	250 FT.	75 FT.	20 FT.	0.2	-	44 IN.	32 IN.	32/36 IN.	-

EXIT ACCESS ARRANGEMENT (PER SEC 1007.1.1 EXCEPTION 2) — **38' - 10" > 1/3 DIAGONAL DISTANCE (30' - 0")**

MINIMUM NUMBER OF EXITS (PER SEC 1006.3.1) - MINIMUM 2 (TWO) REQUIRED — **4 (FOUR) PROVIDED**

FIRE PROTECTION REQUIREMENTS :

	REQUIRED (A-3)	REQUIRED (S-2)	PROVIDED
FIRE WALLS - AREA SEPARATION - SEC. 508.2, 508.4	2 HOUR	NON RATED	**NON SEPARATED OCCUPANCY**
INTERIOR BEARING WALLS, COLUMNS, BEAMS, GIRDERS	NON RATED	NON RATED	**NON RATED**
TRUSSES, FLOOR CONSTRUCTION, EXTERIOR BEARING WALLS	NON RATED	NON RATED	**NON RATED**
CORRIDOR	NON RATED	NON RATED	**NON RATED**
VERTICAL SHAFTS/ ENCLOSURES	1 HOUR	1 HOUR	N/A

PLUMBING — FBC 2017, TABLE 2902.1

FIXTURE PER PERSON	REQUIRED MEN	REQUIRED WOMEN	REQUIRED UNISEX	PROVIDED MEN	PROVIDED WOMEN	PROVIDED UNISEX
WATER CLOSETS - 1/125 MALE, 1/65 FEMALE	1	2	-	2	3	1
URINALS - NOT REQUIRED	-	-	-	1	-	-
LAVATORIES - 1/125 MALE/FEMALE	1	1	0	3	3	1
SHOWERS - NOT REQUIRED	-			1	1	1
UTILITY SINK, MOP SINK - 1 SERVICE SINK	1 SERVICE SINK			2 SERVICE SINK		
WATER FOUNTAIN - 1 PER 500	(1) HI / LO = 1			(1) HI / LO = 1		

CODE PLAN LEGEND

- Area Name / 150 SF / 150 SF / (101) — OCCUPANCY USE TYPE; AREA OF SPACE/AREA PER OCCUPANT; OCCUPANT LOAD
- 100 / 999 — NUMBER OF OCCUPANTS GOING THRU AN EGRESS DOOR OR THRU AN EGRESS STAIR; MAX. NUMBER OF OCCUPANTS ALLOWED PER CODE THRU AN EGRESS DOOR / EGRESS STAIR
- 1—1 — 1-HR FIRE RATED WALL
- 2—2 — 2-HR FIRE WALL
- SB—SB — SMOKE PARTITIONS
- PATH — TRAVEL DISTANCE (SEE EGRESS PATH SCHEDULE)
- FEC — FIRE EXTINGUISHER CABINET - SEMI RECESSED
- FE — FIRE EXTINGUISHER - WALL MOUNTED

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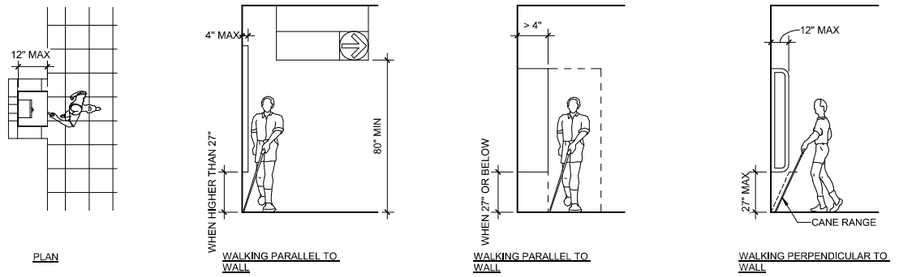
FLORIDA BUILDING CODE & LIFE SAFETY INFORMATION

PROJECT NO. 50150343

G-101

SHEET NO.

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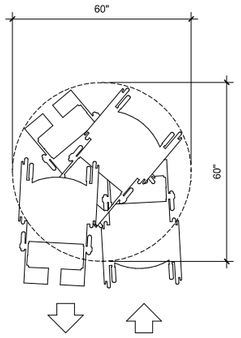


PLAN | WALKING PARALLEL TO WALL | WALKING PARALLEL TO WALL | WALKING PERPENDICULAR TO WALL

REF: 11B-307.2 ADA 4.4, FIG.8 & 9

PROTRUDING OBJECTS

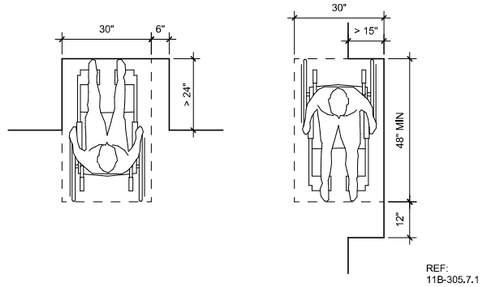
G112-1209



A. SPACE REQUIRED FOR WHEELCHAIR TO MAKE 180 TURN

REF: ADA 4.2.3

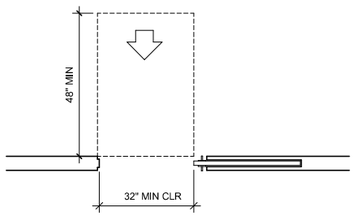
G112-1201



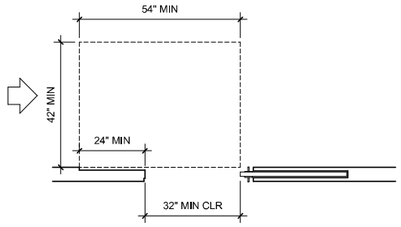
A. FORWARD APPROACH | B. SIDE APPROACH

REF: 11B-305.7.1 ADA 4.3, FIG 4

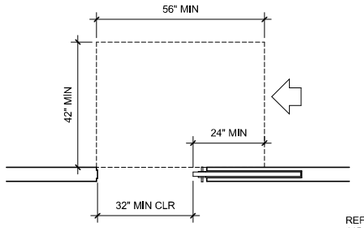
G112-1204



A. FRONT APPROACH



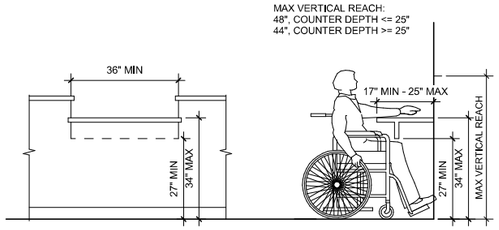
B. SIDE APPROACH



C. LATCH SIDE APPROACH

REF: 11B-404.2.4.2 ADA 4,13, FIG 25

G112-1206



C. CLEARANCES FOR COUNTERS/FORWARD REACH

REF : CBC 11B-904.3.2

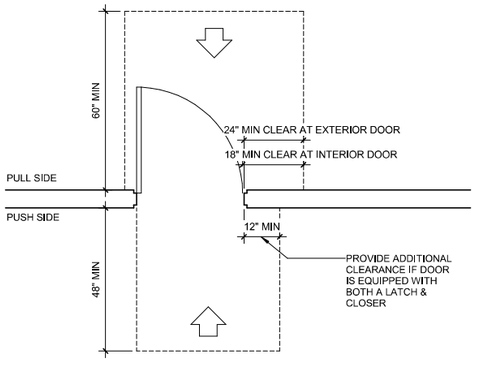
G113-1605

A. CLEARANCES FOR SEATING

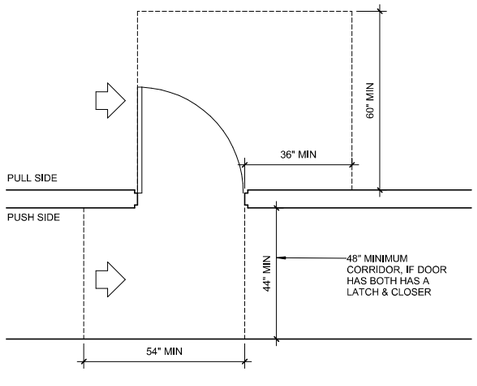
B. CLEARANCES FOR TABLES

REF : CBC FIG 11A-1K

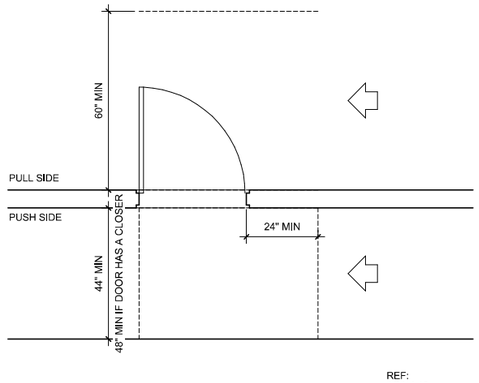
G113-1603



A. FRONT APPROACH



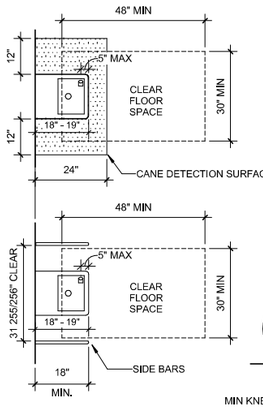
A. HINGE APPROACH



C. LATCH SIDE APPROACH

REF: ADA 4.13, FIG 25

G112-1205



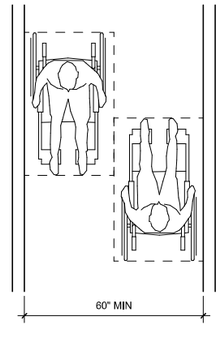
NOTE : EQUIPMENT PERMITTED IN SHADE AREA

A. PLAN

B. SIDE ELEVATION

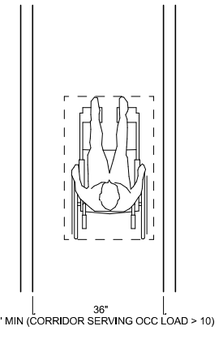
REF: 11B-602 FIG 11B-602.5 ADA: 602.1

G113-1604



NOTE: MINIMUM WIDTH FOR CORRIDORS OVER 200FT [2001 CBC SECTION 11B-403.5.3]

A. MINIMUM CLEAR WIDTH FOR TWO WHEELCHAIRS



B. MINIMUM CLEAR WIDTH FOR SINGLE WHEELCHAIR

REF: 11B-403.5 11B-403.5.3

G112-1202

Dewberry

DEWBERRY ARCHITECTS, INC.
800 North Magnolia Avenue
Suite 1000
Orlando, FL 32803
407.843.5120

GULF COAST ELECTRICAL CO-OP

GCEC HURRICANE SAFE ROOM

722 WEST HIGHWAY 22
WEWAHITCHKA, FL 32465
100% DESIGN

SEAL

STATE OF FLORIDA — JULIA N. MARTINEZ — AR94996 — REGISTERED ARCHITECT

FOR REVIEW ONLY

SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY	AC
APPROVED BY	ZM
CHECKED BY	AC
DATE	2.6.24

TITLE

ACCESSIBILITY DIAGRAMS

PROJECT NO. 50150343

G-102

SHEET NO.

2/6/2024 12:39:52 PM

PERMIT DOCUMENTS FOR:

GULF COAST ELECTRIC COOPERATIVE SAFE ROOM

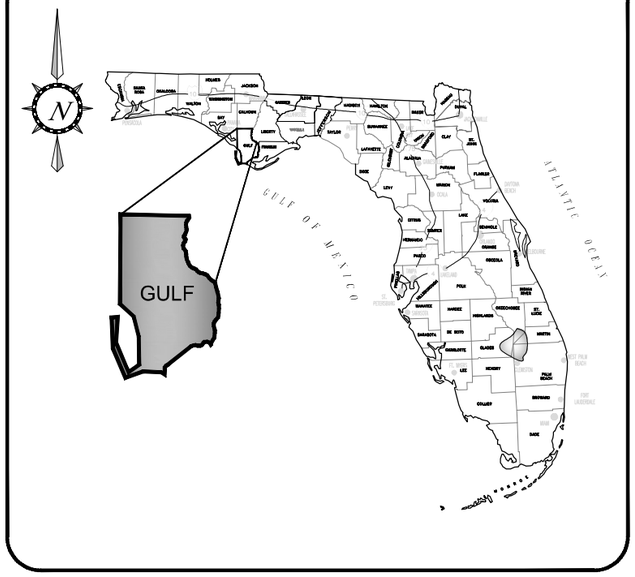
PREPARED FOR:

GULF COAST ELECTRIC COOPERATIVE

811 Know what's below. Call before you dig.

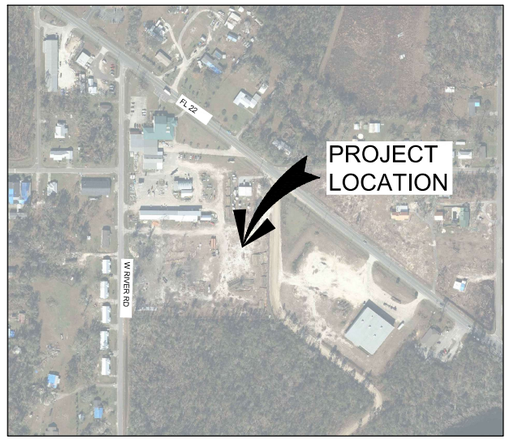
sunshine state ONE CALL of florida

VICINITY MAP



SHEET	DESCRIPTION:
C0.0	CIVIL INDEX AND INFORMATION
C0.1	GENERAL NOTES & S.W.P.P. PLAN
C1	DEMOLITION & EROSION CONTROL PLAN
C2	SITE PLAN
C3	GRADING PLAN
C4	UTILITY PLAN
C5	FDOT UTILITY PLAN
CD1	DETAILS
CD2	DETAILS
CD3	DETAILS
CD4	DETAILS

LOCATION MAP



OWNER, DEVELOPER, AGENT

OWNER/DEVELOPER: GULF COAST ELECTRIC COOPERATIVE INC.
722 FL-22
WEWAHITCHKA, FL 32465

ENGINEER/AGENT: DEWBERRY ENGINEERS INC.
324 MARINA DRIVE
PORT ST. JOE, FL 32456
850.227.7200

SITE LOCATION: 722 FL-22
WEWAHITCHKA, FL 32465

PROJECT NUMBER: 50150343

JUNE 2026

PREPARED BY:

Dewberry

324 Marina Drive
Port St. Joe, FL 32456
850.227.7200
EB 0008794

ERRORS AND OMISSIONS, IF ANY, IN THESE CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION. GENERAL CONTRACTOR TO THOROUGHLY INSPECT EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS.

GENERAL CONTRACTOR TO THOROUGHLY INSPECT EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS SHALL BE NOTED AT ONCE AND CALLED TO THE ENGINEER'S ATTENTION 48 HOURS PRIOR TO SUBMITTING BIDS.

ALL CORRESPONDENCE IN REGARDS TO THESE CONSTRUCTION/BID DOCUMENTS SHALL BE DIRECTED TO JOSUA BRYAN BAXLEY AT DEWBERRY ENGINEERS INC., 324 MARINA DRIVE, PORT ST. JOE, FL 32456. PHONE: (850) 227.7200.

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS CURRENT EDITION, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION CURRENT EDITION, AS AMENDED BY CONTRACT DOCUMENTS, FOR DESIGN STANDARDS CLICK ON "DESIGN STANDARDS" AT THE FOLLOWING WEB SITE: HTTP://WWW.DOT.STATE.FL.US/RDDESIGN/

FOR THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION CLICK ON THE "STANDARD SPECIFICATIONS" LINK AT THE FOLLOWING WEB SITE: HTTP://WWW.DOT.STATE.FL.US/PROGRAMMANAGEMENT

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOSHUA BAXLEY, P.E. ON THE DATE NOTED ON THE ELECTRONIC SIGNATURE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

JOSHUA BRYAN BAXLEY, P.E. DATE:
P.E. #: 67529

1/22/2026 9:07:15 AM - K:\50150343 GCEC\ HEADQUARTERS SAFE ROOM\CIVIL\3DFOLDER_PROPOSED\GCEC SAFE ROOM_DRGN.DWG

DESIGN STANDARDS

1. A COURTESY COPY OF THE CONSTRUCTION PLANS SHALL BE SUBMITTED TO THE CITY OF WEWAHITCHKA (CIVIL, ARCHITECTURAL, M.E.P., & STRUCTURAL).
2. A FDEP STORMWATER PERMIT SHALL BE OBTAINED (CIVIL).
3. A GULF COUNTY BUILDING PERMIT SHALL BE OBTAINED (STRUCTURAL).
4. A LETTER FROM THE FLOOD PLAIN ADMINISTRATOR FOR THE CITY OF WEWAHITCHKA SHALL BE OBTAINED TO ENSURE THE SET FINISH FLOOR ELEVATION IS ABOVE THE 500 YR FLOOD ELEVATION. (CIVIL)
5. ALL PLANS, SPECS, REPORTS, MEMOS, ETC SHALL ADHERE TO THE LISTED STANDARDS FOR EACH RESPECTED FIELD (CIVIL, STRUCTURAL, ARCHITECTURAL, MEP, ETC): FEMA P-361, ICC-500, 2020 FLORIDA BUILDING CODE, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, AND GCEC'S PROGRAMMATIC REQUIREMENTS.
6. DESIGN LOADS FOR EACH RESPECTED FIELD SHALL BE LISTED ON EACH RESPECTED PLAN SET, SPECS, REPORTS, MEMOS, ETC (CIVIL, STRUCTURAL, ARCHITECTURAL, MEP, ETC).

GENERAL NOTES

1. THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE PHYSICALLY VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS. THESE DRAWINGS DO NOT INTEND TO SHOW IN COMPLETE DETAIL ALL EXISTING STRUCTURES, UTILITIES, OR PIPING. THE CONTRACTOR SHALL EXAMINE ALL AVAILABLE RECORDS AND MAKE ALL EXPLORATIONS AND EXCAVATIONS AS REQUIRED TO DETERMINE THE LOCATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING, WHENEVER NECESSARY. THE OWNER RESERVES THE RIGHT TO CHANGE LOCATION OF LINES TO AVOID CONFLICT WITH EXISTING STRUCTURES, UTILITIES, OR PIPING. THE LOCATIONS OF UNDERGROUND UTILITIES HAVE NOT BEEN PHYSICALLY LOCATED BY THEIR OWNER OR ENGINEER.
2. THE CONTRACTOR SHALL CHECK PLANS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S ENGINEER OF ANY CONFLICT BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA.
3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY COMPANIES IN ORDER TO PERMIT MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES ABOVE OR BELOW GROUND THAT MAY OCCUR AS A RESULT OF WORK CALLED FOR IN THESE CONTRACT DOCUMENTS.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LEARN, KNOW, AND COMPLY WITH THE REGULATIONS, ORDINANCES, PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND COMPLY WITH THE CONDITIONS OF THE VARIOUS PERMITS OF THE GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL SCHEDULE THE REQUIRED INSPECTIONS AND APPROVALS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMIT CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE NECESSARY AGENCIES OF CONSTRUCTION COMMENCEMENT.
6. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO SHALL BE OF LATEST ISSUE AND SHALL BE CONSIDERED A PART OF THESE DOCUMENTS AS THOUGH INCLUDED.
7. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN ADEQUATE TRAFFIC CONTROL AND TO PROVIDE DETOURS AROUND CONSTRUCTION ACTIVITIES. NO STREET SHALL REMAIN CLOSED TO TRAFFIC OVERNIGHT. IN ADDITION, THE CONTRACTOR SHALL COOPERATE WITH LOCAL RESIDENTS IN GAINING ACCESS TO THEIR HOMES AND BUSINESSES DURING WORKING HOURS AND SHALL ASSIST AT ALL TIMES WHEN VEHICLES EXPERIENCE TROUBLE DUE TO CONSTRUCTION ACTIVITIES.
8. PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL INSTALL ANY REQUIRED SILT FENCING OR BALED HAY BARRIERS (FLORIDA EROSION CONTROL MANUAL) FOR SILT/EROSION CONTROL. THERE WILL BE NO DIRECT PAYMENT FOR THIS WORK. COST SHALL BE INCLUDED IN OTHER ITEMS OF WORK. LOCATION SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED IN THE FIELD.
9. THE CONTRACTOR SHALL INSTALL ALL TRAFFIC CONTROL DEVICES REQUIRED FOR THE PROJECT IN ACCORDANCE WITH THE LATEST EDITION OF THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL.
10. WHERE IT BECOMES NECESSARY TO TEMPORARILY REMOVE, REPOSITION, OR SUPPORT EXISTING FACILITIES, UTILITY POLES, ETC. THIS WORK SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE AND IN ACCORDANCE WITH REQUIREMENTS OF THE OWNER OF THE EXISTING FACILITY, UTILITY POLE, ETC. THE CONTRACTOR SHALL GIVE PROPER NOTICE TO THE UTILITIES. THE CONTRACTOR SHALL PHYSICALLY EXAMINE THE ENTIRE PROJECT SITE AND INFORM HIMSELF FULLY IN REGARD TO ALL CONDITIONS PERTAINING TO THE PLACE WHERE THE WORK IS TO BE PERFORMED FOR PURPOSE OF DETERMINING HIS COST TO PERFORM THE WORK. THE CONTRACTOR SHOULD PAY SPECIAL ATTENTION TO AREAS INVOLVING CLEARING AND GRUBBING, EXISTING FACILITIES REMOVAL AND REPLACEMENT, SUPPORT ON RELOCATION, AND WORK INVOLVED IN WETLAND AREAS.
11. WORK ALONG STREETS MAY REQUIRE THE REMOVAL AND REPLACEMENT OF EXISTING DRAINAGE PIPE, STRUCTURES, HEADWALLS, ETC., THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR RELATED ITEMS OF WORK.
12. COPIES OF TEST REPORTS FOR ASPHALT, SUBGRADE, FILL, AND BACKFILL UNDER ROADWAYS AND STRUCTURES, AND UTILITY TRENCHES SHALL BE PROVIDED DIRECTLY TO THE ENGINEER FOR APPROVAL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE TESTING AND INSURE THAT ALL APPLICABLE TESTS HAVE BEEN PERFORMED. FAILURE TO OBTAIN TEST RESULTS AT ANY POINT OF CONSTRUCTION WILL REQUIRE THE REMOVAL OF THE IMPROVEMENT AND REPLACEMENT BY THE CONTRACTOR. IT SHOULD BE NOTED THAT THE ENGINEER WILL REQUIRE COMPACTION TESTING IN ACCORDANCE WITH THE TESTING SCHEDULE FOR UTILITY TRENCH FILL AND BACKFILL.
13. ANY DISTURBED SIGNS MUST BE REINSTALLED TO EXISTING OR ACCEPTABLE CONDITION BY THE OWNER AT THE CONTRACTOR'S EXPENSE.
14. CONTRACTOR SHALL HAVE COPIES OF ALL PERMITS (CITY, COUNTY, FDOT & FDEP) IN POSSESSION AT ALL TIMES DURING CONSTRUCTION. ANY INDIVIDUAL CREW OR INDIVIDUAL PERSON WORKING ON THE INSTALLATION OF ANY PART OF THIS PROJECT SHALL HAVE A SET OF PLANS AND SPECIFICATIONS WITH THEM AT ALL TIMES.
15. TESTING REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE TESTING SCHEDULE CONTAINED WITHIN THESE PLANS. SELECTION AND CONTRACTING WITH THE TESTING FIRMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND SCHEDULE ALL TESTS.
16. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND SCHEDULE THE ACTIVITIES OF THE UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO TV, TELEPHONE, GAS, POWER, ETC., AND PROVIDE IN ACCORDANCE WITH THE UTILITY COMPANY ANY NECESSARY CONDUITS FOR CROSSINGS UNDER PAVEMENT. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS SERVICE, ANY DAMAGE CAUSED BY THE UTILITY COMPANY TO THE IMPROVEMENTS OF THE CONTRACTOR SHALL BE REPAIRED IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT REPAIRS ARE PERFORMED, EITHER BY THE CONTRACTOR OR THE UTILITY COMPANY AT NO COST TO THE OWNER.
17. ALL CONSTRUCTION STAKING SHALL BE DONE AT CONTRACTORS EXPENSE.
18. STATIONING ON THE PLANS RELATES TO THE CENTERLINE OF ALL ROADWAYS/ RIGHT-OF-WAYS AND SHALL BE USED FOR LOCATION PURPOSES ONLY. CONTRACTOR SHALL NOT USE STATIONING WHEN CALCULATING PIPE LENGTHS.
19. THE CONTRACTOR SHALL TAKE WHATEVER PRECAUTIONS NECESSARY TO AVOID TRESPASSING AND DAMAGING PRIVATE PROPERTY.
20. ALL SPOIL MATERIAL FROM EXCAVATION SHALL BE PLACED ON THE UPLAND SIDE OF ANY SLOPED CONSTRUCTION AREA.
21. THE CONTRACTOR SHALL TAKE WHATEVER STEPS NECESSARY TO PREVENT EROSION INTO NEARBY WETLANDS WHICH INCLUDES TURBIDITY CURTAINS, HAY BAILS, AND ALL OTHER METHODS TO CONTROL EROSION AT NO ADDITIONAL COST TO OWNER AND MAY BE DIRECTED TO DO SO BY THE ENGINEER.
22. THE CONTRACTOR SHALL MAINTAIN A REASONABLE ACCESS TO ALL RESIDENCES AND BUSINESSES DURING CONSTRUCTION.
23. ALL EXISTING CONCRETE, ASPHALT, TREES, STUMPS, AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FLORIDA LAWS.
24. DEWATERING: SHOULD LOWERING OF GROUNDWATER BE NECESSARY FOR THE INSTALLATION OF CONCRETE STRUCTURES, GRAVITY SEWER, FORCEMAINS, WATERMAINS, ETC., OR TO PREVENT LATERAL MOVEMENT OF MATERIAL UNDER CONCRETE ALREADY PLACED, SUCH LOWERING SHALL BE ACCOMPLISHED BY MEANS OF A WELL POINT SYSTEM OR OTHER APPROVED MEANS, AT CONTRACTOR'S EXPENSE. COMPREHENSIVE PLANS FOR DEWATERING OPERATIONS, IF USED, SHALL BE SUBMITTED BY THE CONTRACTOR TO ENGINEER PRIOR TO INSTALLATION.
25. CONTRACTOR SHALL FURNISH "AS BUILT PLANS" INDICATING LOCATIONS OF ALL FEATURES, PIPES, PONDS, PADS, MANHOLES, FITTINGS, VALVES, AND DEAD END RUNS WITH THREE (3) PHYSICAL FEATURES (LOT CORNERS, TREES, ETC.).
26. THE CONTRACTOR SHALL REMOVE AND REPLACE, TO THEIR ORIGINAL NATURE, ALL DISTURBED MATERIALS OR OBJECTS WITHIN THE PATH OF THE NEW UTILITIES AS NECESSARY. ALL REPLACED MATERIALS SHALL BE EQUAL OR BETTER AND SHALL BE APPROVED BY THE ENGINEER. THIS INCLUDES ALL LANDSCAPING WITHIN THE RIGHT OF WAY IN THE PATH OF THE NEW UTILITIES.
27. CONTRACTOR SHALL FOLLOW ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR CONSTRUCTION.
28. A TWO AND ONE HALF FOOT STRIP OF SOD SHALL BE INSTALLED ON THE EDGE OF ALL ASPHALT AND ASPHALT MILLING AREAS AND AROUND ALL ABOVE GROUND CONCRETE STRUCTURES INCLUDING BUT NOT LIMITED TO VALVE PADS, BLOW OFF VAULTS, AND AIR RELEASE VAULTS. ALL OTHER DISTURBED AREAS SHALL BE RESTORED WITH SEED AND MULCH UNLESS OTHERWISE SPECIFIED IN PLANS.
29. PROPOSED SPOT ELEVATIONS REPRESENT PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.

SPECIAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF COORDINATION WITH ELECTRIC COMPANY TO STABILIZE POWER POLES AS THEY ARE ENCOUNTERED THROUGHOUT THE ENTIRE PROJECT.
2. REMOVAL AND REPLACEMENT OF EXISTING DRIVEWAYS AND DRIVEWAY CULVERTS SHALL BE INCLUDED IN THE BID PRICE. NEW DRIVEWAYS SHALL MATCH EXISTING MATERIALS.
3. REMOVAL AND REPLACEMENT OF EXISTING SIGNS, MAILBOXES, SODDING, IRRIGATION, LANDSCAPING, STRUCTURES, ETC. SHALL BE INCLUDED IN THE BID PRICE.
4. COMPACTION TESTING SHALL BE PERFORMED AT THE ROADWAY CUT FOR EXCAVATION AND BACKFILL SHALL BE COMPACTED PER FDOT SPECIFICATIONS FOR ROAD RECONSTRUCTION AND SHALL BE INCLUDED IN THE BID PRICE.
5. THE LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITIES INCLUDING RECONNECTING ALL WATER AND SEWER SERVICES DAMAGED/BROKEN DURING CONSTRUCTION, WITH NO ADDITIONAL COST TO THE OWNER.
6. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A MAINTENANCE OF TRAFFIC PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION. SIGNAGE SHALL BE MAINTAINED AT ALL TIMES AND SHALL BE INCLUDED IN THE BID PRICE.
7. CONTRACTOR SHALL PROVIDE ALL DE-WATERING FOR CONSTRUCTION AND SHALL BE INCLUDED IN THE BID PRICE.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NPDES PERMIT AND MAINTAINING THE SILT FENCE, INLET PROTECTION, AND ANY OTHER EROSION CONTROL NECESSARY IN THE NPDES PERMIT GUIDLINES.

CONSTRUCTION SEQUENCE:

1. CONTRACTOR WILL BE RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION CONFERENCE WITH THE OWNERS, UTILITY COMPANIES, WMD, FDOT, COUNTY, ENGINEER AND ALL OTHER PARTIES REQUIRED FOR COMMENCEMENT OF PROJECT. THIS MEETING SHALL TAKE PLACE PRIOR TO COMMENCEMENT OF ANY PROJECT RELATED ACTIVITIES. AT THIS TIME PRIOR TO ANY CONSTRUCTION THE PERMIT MUST BE POSTED WITHOUT NAILING TO ANY TREE ON SITE.
2. THE CONTRACTOR SHALL ENSURE THAT A FOREMAN OR SUPERVISOR WHO HAS BEEN CERTIFIED UNDER FLORIDA STORMWATER, EROSION, AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM IS AVAILABLE IN PERSON OR BY TELEPHONE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. CONSTRUCTION SHALL NOT COMMENCE UNTIL INFORMATION (NAME AND PHONE NUMBER) OF CERTIFIED STORMWATER EROSION AND SEDIMENT CONTROL INSPECTOR HAS BEEN PROVIDED TO THE COUNTY AT THE PRE CONSTRUCTION MEETING
3. CONTRACTOR SHALL USE ENTRANCE DEPICTED ON THIS PLAN SET. CONTRACTOR WILL LIMIT THE AMOUNT OF AREA IMPACTED IN THE RIGHT OF WAY DURING CONSTRUCTION.
4. PRIOR TO CLEARING, A SILT FENCE BACKED WITH 4' HOG WIRE FENCE (TRENCHED 8 INCHES DEEP AND BACKFILLED ON THE UPHILL SIDE), SHALL BE INSTALLED AROUND THE PERIMETER OF THE SITE AS SHOWN ON THE PLANS. SILT FENCE MUST NOT BE TRENCHED WITHIN THE CPZ OF ANY TREES TO BE PROTECTED. EROSION CONTROL SHOWN ON PLANS IS REQUIRED. ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED DURING ANY PHASE OF THE DEVELOPMENT, AT THE DISCRETION OF THE INSPECTOR. THE CITY INSPECTOR MAY REQUIRE ADDITIONAL MEASURES TO PREVENT ADDITIONAL EROSION. CONTRACTOR SHALL PROVIDE OUTLET PROTECTIONS FOR SEDIMENTS THAT MAY ENTER THE STORMWATER FACILITY. CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING THE PROPOSED POND AFTER CONSTRUCTION OF ANY SEDIMENT THAT ENTERS THE POND. CONTRACTOR WILL BE RESPONSIBLE FOR THE CONDITION OF THE POND DURING CONSTRUCTION. CONTRACTOR CAN USE ADDITIONAL ALTERNATIVE TO PREVENT SEDIMENTS ENTERING THE POND. CONTRACTOR WILL BE RESPONSIBLE FOR ANY OFFSITE IMPACTS.
5. DURING THE CLEARING, GRUBBING AND SITE GRADING STAGES, AREAS THAT ARE DISTURBED MORE THAN 7 DAYS SHALL BE STABILIZED WITH RYE GRASS APPLIED AT MANUFACTURER'S RECOMMENDATIONS. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH 4,000 POUNDS OF STRAW PER ACRE. ALL EXPOSED SLOPES THAT ARE EQUAL TO OR GREATER THAN 5%, AN EROSION BLANKET SHALL BE UTILIZED UNTIL THE AREA ACHIEVES FINAL STABILIZATION. TO LIMIT THE AMOUNT OF EROSION ON SITE CONTRACTOR SHALL CLEAR SITE ONLY AS NEEDED DURING CONSTRUCTION. CONTRACTOR SHALL USE CARE WHEN CUTTING GRADES FOR THE WALL AND SWALE. CONTRACTOR SHALL ALSO PREPARE DIVERSION BERMS
6. CONTRACTOR SHALL EXCAVATE THE SITE SO THAT NO SEDIMENTS ENTER THE CONVEYANCE SYSTEM. CONTRACTOR SHALL ENSURE NECESSARY SAFETY MEASURES ARE TAKEN TO REMOVE SOIL FROM THE PROPOSED SITE AND OSHA REQUIREMENTS ARE MET. IF CONTRACTOR STORES SOILS ON SITE AND SHALL COORDINATE WITH OWNER ABOUT LOCATION ON SITE. THE STORAGE ON SITE AREA SHALL BE SURROUNDED BY DOUBLE ROW SILT FENCE. IF THE CONTRACTOR REMOVES SOIL AND CREATES SLOPES GREATER THAN 2:1 PRIOR TO THE WALL BEING INSTALLED NECESSARY EROSION CONTROL MEASURES SHALL BE PLACED, SUCH AS DOUBLE ROW SILT FENCES AND EROSION CONTROL BLANKETS AS NEEDED.
7. AFTER THE INITIAL SITE GRADING WORK, ALL PROPOSED INLET(S)/OUTFALLS, ONCE INSTALLED, SHALL BE PROTECTED FROM EROSION AND SEDIMENT RUNOFF BY THE USE OF FILTER FABRIC (WITH THE SAME INSTALLATION AS ABOVE). INLET GRATES MAY ALSO BE COVERED WITH FABRIC IF TRAFFIC WILL BE TRAVERSING THE INLETS. THESE COVERS SHALL BE CHECKED DAILY TO ENSURE PROPER COVER. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR ARE TO BE LEFT IDLE FOR MORE THAN 14 DAYS SHALL BE STABILIZED WITH PERMANENT SEED OR OTHER PERMANENT STABILIZATION METHODS. SEEDING SHALL BE THE SAME AS IN TEMPORARY SEEDING.
8. TEMPORARY SEEDING SHALL BE RYE GRASS APPLIED AT MANUFACTURER'S RECOMMENDATIONS TO ANY DISTURBED AREAS THAT ARE INACTIVE MORE THAN 7 DAYS. SOD SHALL BE USED TO STABILIZE THE STORMWATER DISCHARGE SWALE. FILTER FABRIC SHALL BE PLACED UNDER STORMWATER DISCHARGE SWALE OUTFALL. SOD STRIPS IN SWALES AND WATERWAYS SHALL BE LAID PERPENDICULAR TO THE DIRECTION OF FLOW. SOD SHALL BE PEGGED OR STAPLED TO RESIST WASHOUT DURING THE ESTABLISHMENT PERIOD. CHICKEN WIRE, JUTE OR OTHER NETTING SHALL BE PEGGED OVER THE SOD FOR EXTRA PROTECTION FOR THE SWALE LOCATED ON EAST OF THE RETAINING WALL. SOD SHALL BE WATERED AND MAINTAINED AS NEEDED FOR THIS PROJECT. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING IRRIGATION FOR ALL LANDSCAPING ON SITE.
9. CLEAR THE REMAINING PORTION OF THE SITE, INCLUDING ACCESS DRIVES, AND CREATE DIVERSION CHANNELS IF NECESSARY TO DIRECT STORM WATER FLOWS TO THE CONVEYANCE SYSTEM. CONSTRUCT HAY BALE CHECK DAMS WHERE NEEDED TO TRAP SEDIMENT BEFORE IT REACHES THE CONVEYANCE SYSTEM OR POND.
10. CARE SHALL BE TAKEN TO ASSURE THE REMOVAL OF ACCUMULATED FINE SEDIMENTS AND THAT THE EXCESSIVE COMPACTION OF SOIL BY CONSTRUCTION MACHINERY IS AVOIDED. INLET(S)/OUTFALLS SHALL BE PROTECTED WITH FILTER FABRIC AND PROPERLY INSTALLED HAY BALES (WITH THE SAME INSTALLATION AS INDICATED ABOVE).
11. ALL SEDIMENT IS TO BE CAPTURED ON THE PROJECT SITE. ANY SEDIMENT ESCAPING THE PROJECT SITE WILL BE REQUIRED TO BE REMOVED AND RESTORED INCLUDING THE TRACKING OF SOIL ON STREETS. THIS INCLUDES SEDIMENT INTO THE STORMWATER FACILITY. CONTRACTOR WILL BE RESPONSIBLE FOR ANY SEDIMENT ENTERING POND AND WILL BE RESPONSIBLE FOR ITS REMOVAL.
12. DAILY SWEEPING WILL BE REQUIRED ON THE PROPERTY AND IMMEDIATELY AFTER STORM EVENTS TO PREVENT TRACKING OF SEDIMENT ON TO STREETS AND RIGHT OF WAY.
13. WHERE NEEDED DURING CONSTRUCTION, 2' SOIL DIVERSION BERMS SHALL BE CONSTRUCTED TO INTERCEPT AND DIRECT STORM RUNOFF TO THE ON-SITE STORMWATER INLETS.
14. REMOVE ALL SEDIMENT/EROSION CONTROL DEVICES. REMOVE AND DISTRIBUTE ANY REMAINING SEDIMENT ONCE FULLY STABILIZED. ASSURE THAT DISTRIBUTED SEDIMENT WILL NOT BE REDISTRIBUTED. ANY EXCESS DIRT SHALL BE DISPOSED OFF IN A MANNER OFF SITE THAT WILL NOT CAUSE ANY EROSION OR SEDIMENT ISSUES. CONTRACTOR WILL ALSO INSPECT STRUCTURES FOR SEDIMENT. ANY SEDIMENT SHALL BE FLUSHED FROM THE CONVEYANCE SYSTEM.
15. TWO WEEKS PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL HAVE A WALK THROUGH WITH THE ENGINEER, AND OWNER AND A PUNCH LIST SHALL BE PREPARED. ONCE ALL PUNCH LIST ITEMS ARE ADDRESSED TO SATISFY THE ENVIRONMENTAL PERMIT, THE CONTRACTOR SHALL ALSO SCHEDULE A WALK THROUGH WITH THE OWNER, AND ENGINEER UPON COMPLETION.
16. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SIGNED AND SEALED AS-BUILT SURVEY TO VERIFY THE INSTALLATION OF ALL INFRASTRUCTURE, STORMWATER CONVEYANCES, AND LANDSCAPE IMPROVEMENTS IN ACCORDANCE WITH THE PERMIT.
17. THE ENGINEER WILL FILE A SIGNED AND SEALED RECORD DRAWINGS AND STORM WATER COMPLIANCE REPORT WITH THE PERMITTING AGENCY TWO WEEKS PRIOR TO REQUESTING A CLOSE OUT OF THE PROJECT.

TESTING SCHEDULE

ITEM	TEST	TEST IDENTIFICATION	TEST REQUIREMENT	TEST FREQUENCY
UTILITY TRENCH FILL & BACKFILL	MAXIMUM DENSITY	AASHTO T-180	N/A	PER SOIL TYPE
	OPTIMUM MOISTURE FIELD DENSITY	ASTM D-1557 AASHTO T-191,T-204 ASTM D-1556, D-2937	95% OF MAXIMUM DENSITY	ONE PER 500 LF HORIZONTAL OR ONE PER 750 SY WITH A MINIMUM OF 3 TESTS, ALTERNATING LIFTS (12")
	GRADATION	AASHTO M-92	(15% PASSING NO. 200)	ONE PER SOIL TYPE
FILL & BACKFILL UNDER ROADWAYS AND STRUCTURES	MAXIMUM DENSITY	AASHTO T-180	N/A	PER SOIL TYPE
	OPTIMUM MOISTURE FIELD DENSITY	ASTM D-1557 AASHTO T-191, T-204, T-238 ASTM D-1556, D-2937, D-2922	98% OF MAXIMUM DENSITY	ONE PER 500 LF HORIZONTAL OR ONE PER 750 SY WITH A MINIMUM OF 3 TESTS, ALTERNATING LIFTS (12")
	GRADATION	AASHTO M-92	(15% PASSING NO. 200)	ONE PER SOIL TYPE
LIMEROCK BASE	BEARING VALUES	LBR-FDOT	100 (MIN.)	ONE PER SITE OR AT MATERIAL CHANGES
	MAXIMUM DENSITY	AASHTO T-180	N/A	ONE PER SITE OR AT MATERIAL CHANGES
	OPTIMUM MOISTURE	ASTM D-1557 AASHTO T-191, T-204, T-238	98% OF MAXIMUM DENSITY	
	FIELD DENSITY	ASTM D-1556, D-2937, D2922	MODIFIED PROCTOR	ONE PER 500 LF HORIZONTAL OR ONE PER 1200 SY WITH A MINIMUM OF 3 TESTS

STORM WATER POLLUTION PREVENTION PLAN:

1. SITE DESCRIPTION:
   CONSTRUCTION ACTIVITY: CONSTRUCTION OF A SAFE ROOM BUILDING AND ALL ASSOCIATED APPURTENANCES DEPICTED IN THIS PLAN SET
   PROJECT LIMITS: SEE SHEETS C2, SITE PLAN
   PROJECT DESCRIPTION: CONSTRUCTION OF A SAFE ROOM BUILDING AND ALL ASSOCIATED APPURTENANCES DEPICTED IN THIS PLAN SET
   MAJOR SOIL DISTURBING ACTIVITIES: CONSTRUCTION OF A SAFE ROOM BUILDING AND ALL ASSOCIATED APPURTENANCES DEPICTED IN THIS PLAN SET

   A. TOTAL PROJECT AREA: 2.69 AC

   B. TOTAL SOIL AREA TO BE DISTURBED: 2.69 AC

   C. FOR LOCATIONS OF DRAINAGE AREAS AND OUTFALLS: N/A
      a. NAME OF RECEIVING WATERS:N/A
      b. WETLAND AREA: NO DISTURBANCE TO NON-ISOLATED WETLANDS ARE ANTICIPATED.

2. CONTROLS: NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS.
   A. THE SOIL DISTURBING ACTIVITIES FOR THIS PROJECT ARE AS FOLLOWS: ONLY UPON PROPER PLACEMENT OF ALL EROSION CONTROLS CAN SOIL DISTURBING ACTIVITIES TAKE PLACE. HAY BALES AND SILT FENCE WILL BE USED LATERALLY AT SPECIFIED INTERVALS. HAY BALES SHALL BE USED TO PREVENT SEDIMENTATION FROM ESCAPING PROJECT LIMITS.
   B. EROSION AND SEDIMENT CONTROLS:
      a. STABILIZATION PRACTICES:
      X TEMPORARY SODDING
      X TEMPORARY GRASSING
      X PERMANENT PLANTING, SODDING, OR SEEDING
      TEMPORARY MULCHING
      ARTIFICIAL COVERING

      b. STRUCTURAL PRACTICES:
      SAND BAGGING
      X SILT FENCES
      X HAY BALES
      X BERMS — SEDIMENT TRAPS
      X DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES — X RIP RAP
      PIPE SLOPE DRAINS
      FLUMES
      X ROCK BEDDING AT CONSTRUCTION EXIT
      TIMBER BEDDING AT CONSTRUCTION EXIT
      DITCH LINER

   C. DESCRIPTION OF STORM WATER MANAGEMENT: NO DISCHARGE WET DETENTION POND

   D. OTHER CONTROLS:
      a. WASTE DISPOSAL: NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE.
      b. OFFSITE VEHICLE TRACKING:
      HAUL ROADS DAMPENED FOR DUST CONTROL
      X LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
      X EXCESS DIRT ON ROAD REMOVED DAILY
      X STABILIZED CONSTRUCTION ENTRANCE
      c. SANITARY WASTE: N/A
      d. FERTILIZERS AND PESTICIDES: FERTILIZERS AND/OR PESTICIDES SHALL BE APPLIED ACCORDING TO MANUFACTURERS RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR AS DIRECTED BY THE PROJECT ENGINEER.
      e. NON-STORMWATER DISCHARGE (INCLUDING SPILL REPORTING): NO NON-STORMWATER DISCHARGES ARE ANTICIPATED.

   E. APPROVED STATE, LOCAL PLANS, OR STORM WATER PERMITS:

3. MAINTENANCE:
   ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN (7) CALENDAR DAYS AFTER THE SURROUNDING EXPOSED AREA HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT.

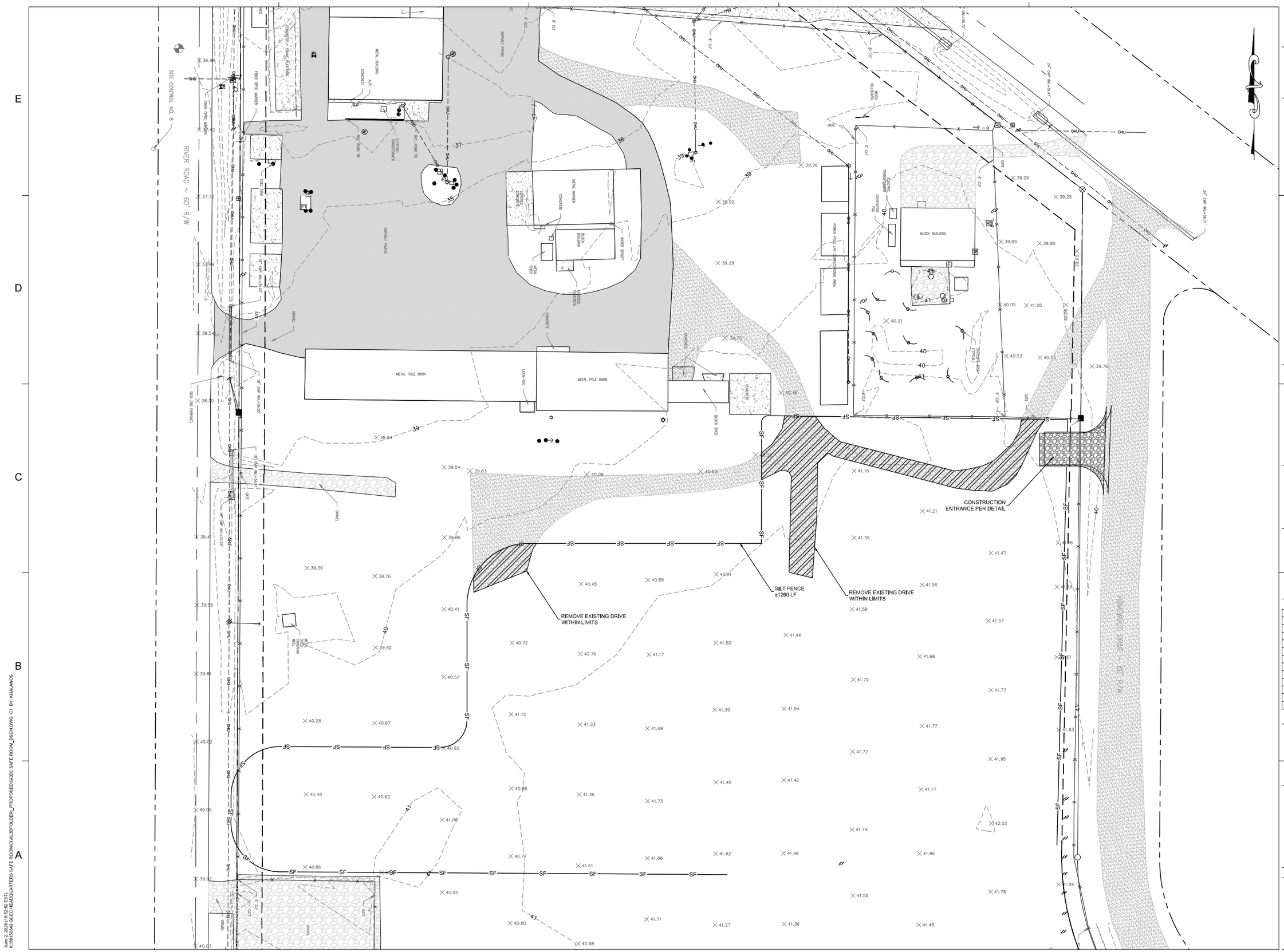
4. INSPECTION:
   A. ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AS WELL AS AFTER 0.25' OR MORE OF RAIN. AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION. BASED ON INSPECTION RESULTS THE CONTROLS SHALL BE REVISED PER THE INSPECTION REPORTS.
   B. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.
   C. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS NEEDED.
   D. RECORDS OF THE INSPECTION AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN ONE ACRE. THE CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 24 HOUR NOTIFICATION TO THE CITY OWNER PRIOR TO COMMENCEMENT OF WORK. ALL REQUIRED ELEMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN MUST BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO COMPLY COULD RESULT IN CODE ENFORCEMENT ACTION AND FINES.
6. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING REQUIRED WASTE MANAGEMENT PRACTICES AS DEFINED IN THE GADSDEN COUNTY MUNICIPAL CODE "UNLAWFUL DISPOSAL OF WASTE, FAILURE TO DELIVER WASTE," WHICH MAKES IT UNLAWFUL FOR ANY PERSON TO DUMP, LEAVE OR BURY ANY SOLID WASTE ON PUBLIC OR PRIVATE PROPERTY.
7. SWEEPING SHALL OCCUR DAILY OR IMMEDIATELY AFTER SUCH EVENTS THAT CAUSE TRACKING ONTO STREET.

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850.227.7200

GULF COAST ELECTRIC COOPERATIVE SAFE ROOM
GULF COUNTY, FLORIDA

SEAL

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EB 0008794

100% DESIGN

SCALE

0' 15' 30' 60'
SCALE: 1" = 30'

REVISIONS

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APPROVED BY	C. BROWN
CHECKED BY	J. BAXLEY
DATE	JUNE 2026

TITLE

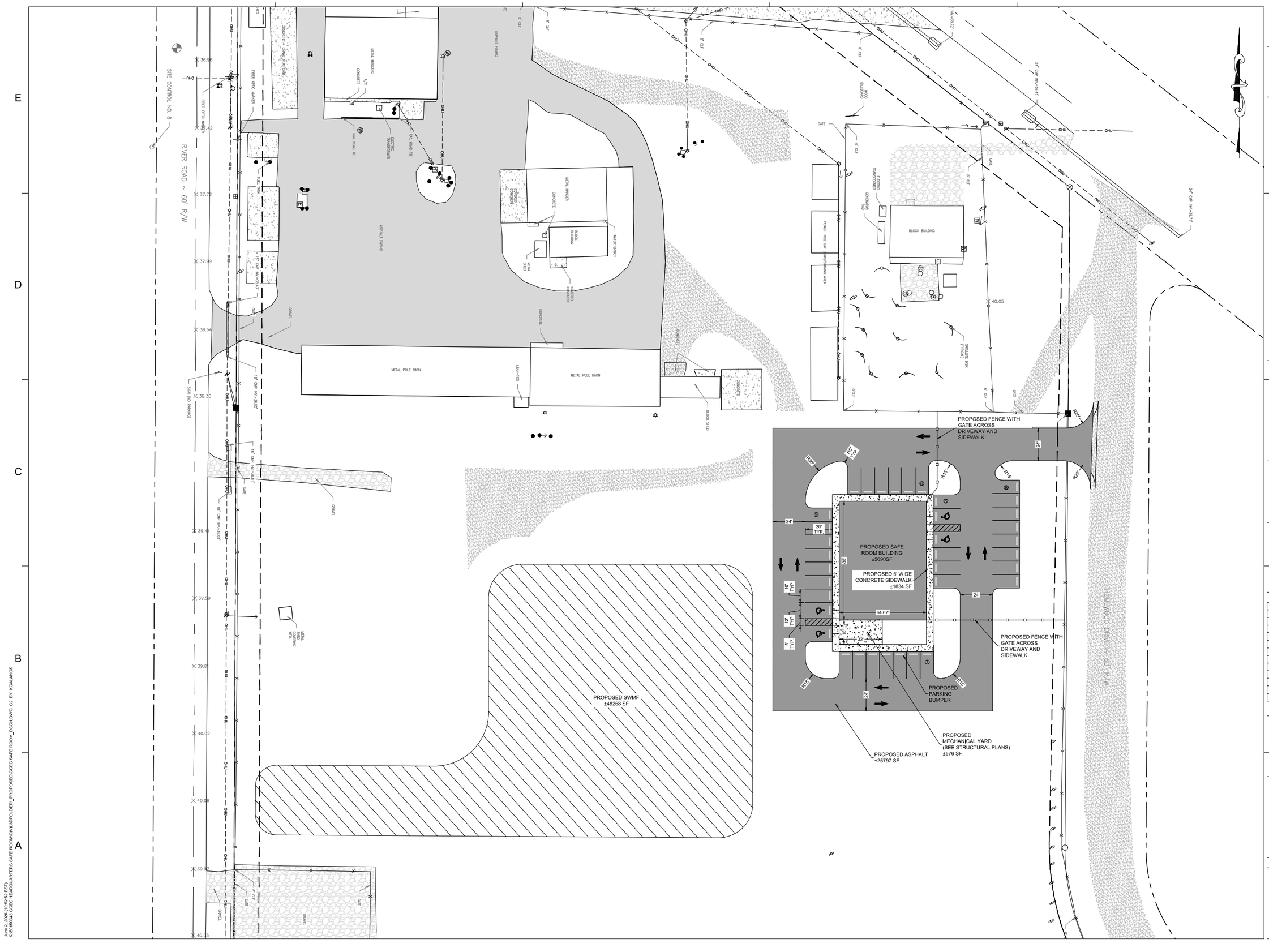
DEMOLITION & EROSION CONTROL PLAN

PROJECT NO. 50150343

C1

SHEET NO.

June 2, 2026 (10:52:52 EST)
K:\50150343 GCEC HEADQUARTERS SAFE ROOM\CIVIL\DFOLDER_PK\PROPOSED\GCEC SAFE ROOM_DSGN.DWG C1 BY: KGALANOS



June 2, 2026 (10:52:32 EST)
K:\50150343 GCEC HEADQUARTERS SAFE ROOM\CIVIL\DFOLDER_PROPOSED\GCEC SAFE ROOM_DSGN.DWG C2 BY: KGALANOS

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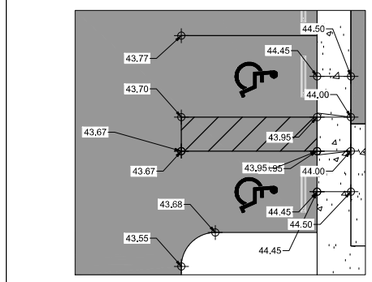
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SITE PLAN

PROJECT NO. 50150343

C2

SHEET NO.

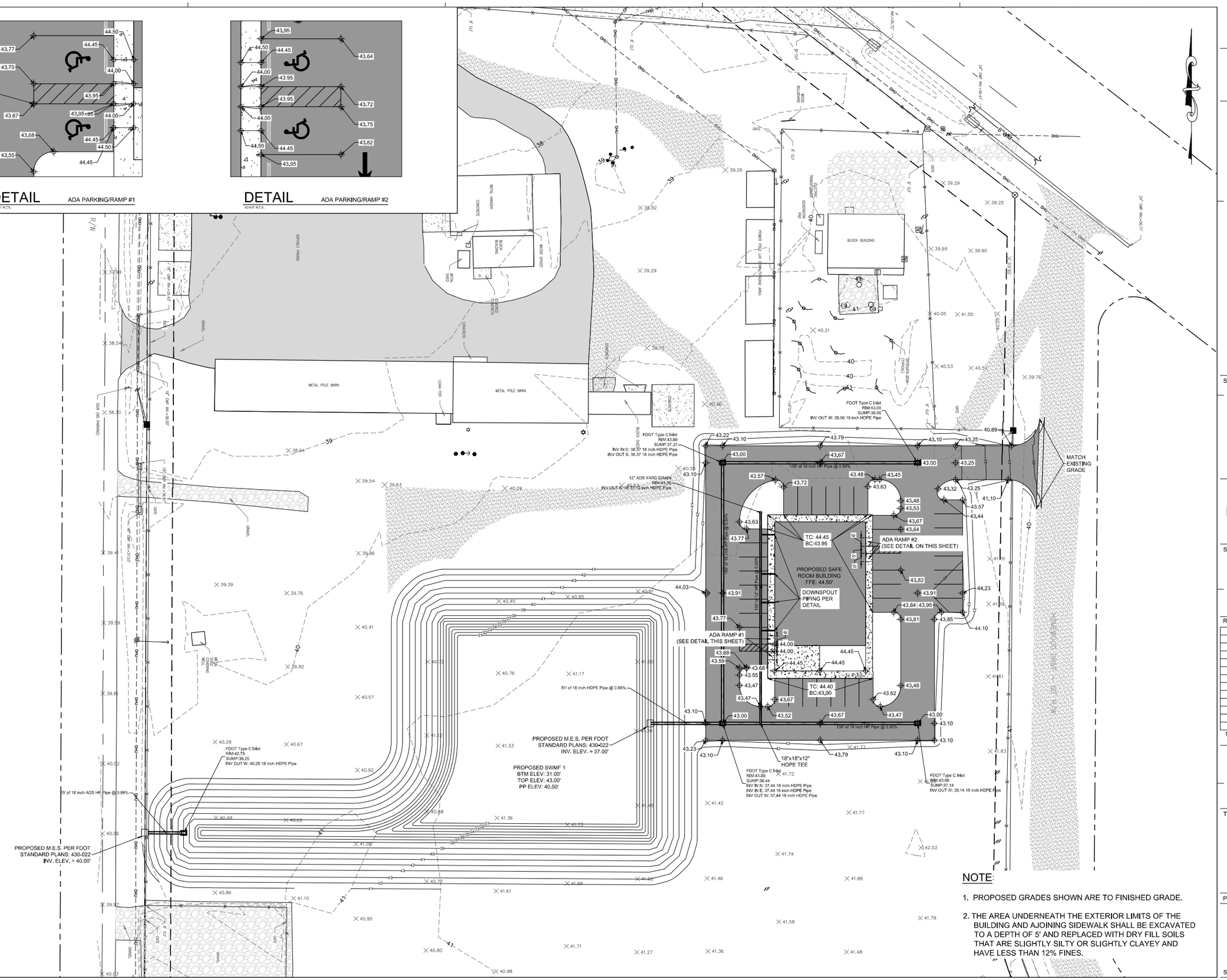


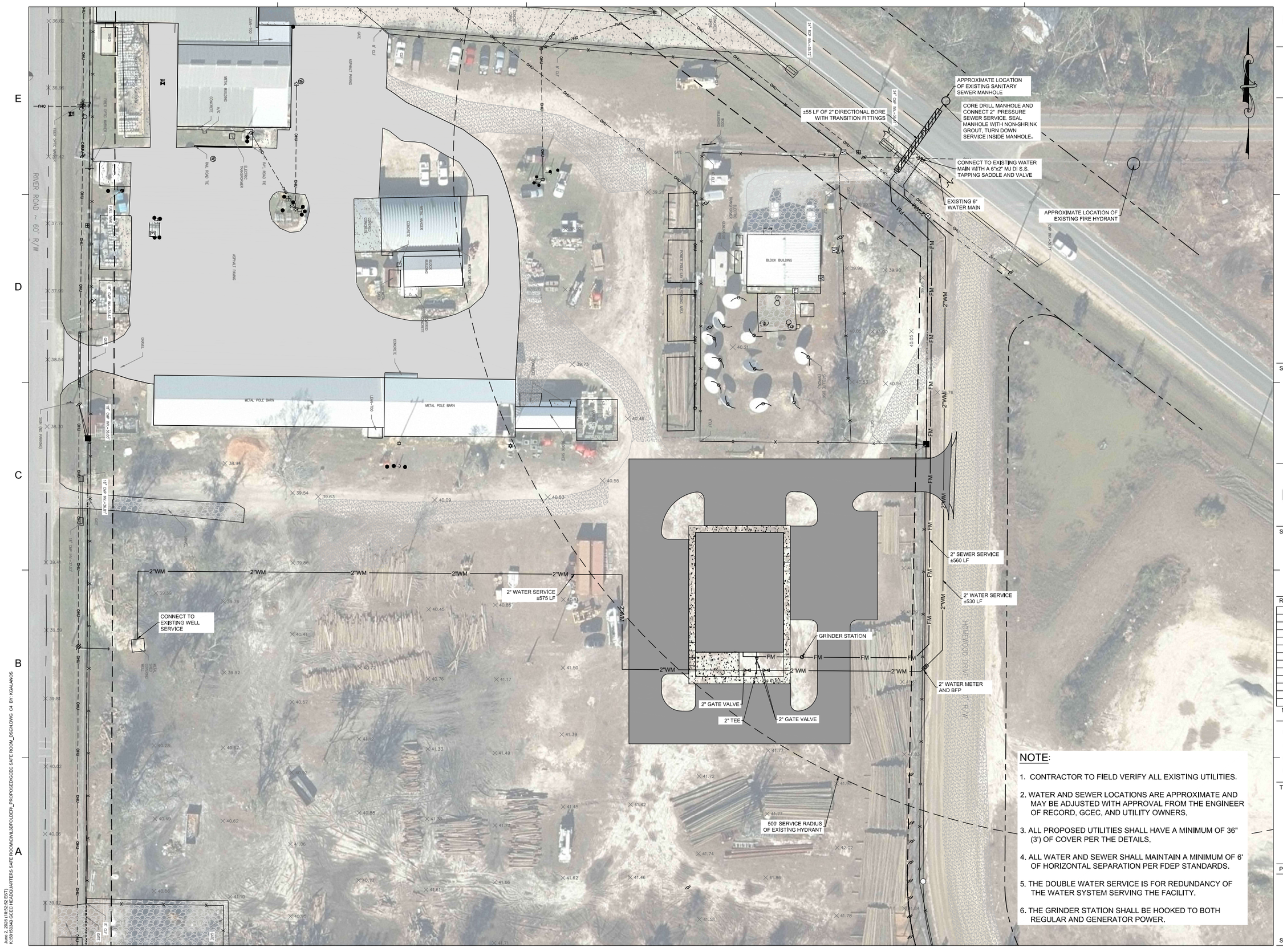
DETAIL ADA PARKING/RAMP #1

SCALE: N.T.S.

DETAIL ADA PARKING/RAMP #2

SCALE: N.T.S.


R/W
ASPHALT PAVING
METAL HANGER
CONCRETE
BLOCK BUILDING
WATER SPIGOT
METAL SHED
CONCRETE
GRAVEL
METAL POLE BARN
METAL POLE BARN
CONCRETE
BLOCK BUILDING
GATE
POWER POLE
LAY DOWN STAGING AREA
BLOCK BUILDING
GATE
CONCRETE PAD
DOWNSPOUT PIPING PER DETAIL
CONCRETE
GATE
CONCRETE
GATE
CONCRETE
GATE



NOTE:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.
2. WATER AND SEWER LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED WITH APPROVAL FROM THE ENGINEER OF RECORD, GCEC, AND UTILITY OWNERS.
3. ALL PROPOSED UTILITIES SHALL HAVE A MINIMUM OF 36" (3') OF COVER PER THE DETAILS.
4. ALL WATER AND SEWER SHALL MAINTAIN A MINIMUM OF 6' OF HORIZONTAL SEPARATION PER FDEP STANDARDS.
5. THE DOUBLE WATER SERVICE IS FOR REDUNDANCY OF THE WATER SYSTEM SERVING THE FACILITY.
6. THE GRINDER STATION SHALL BE HOOKED TO BOTH REGULAR AND GENERATOR POWER.

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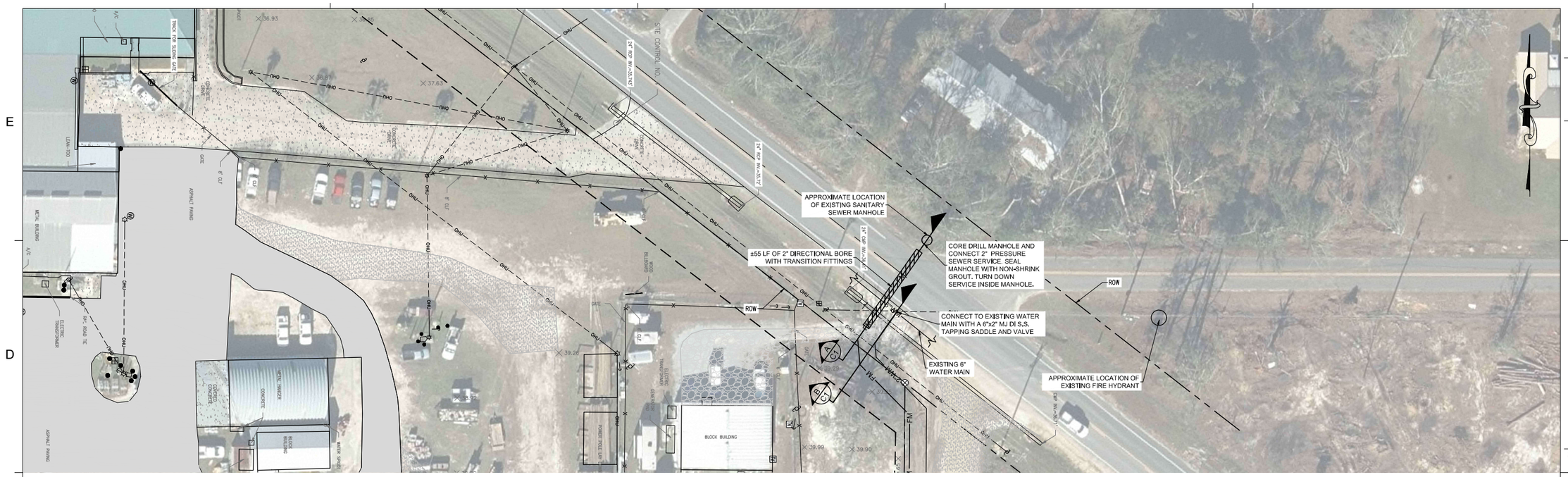
UTILITY PLAN

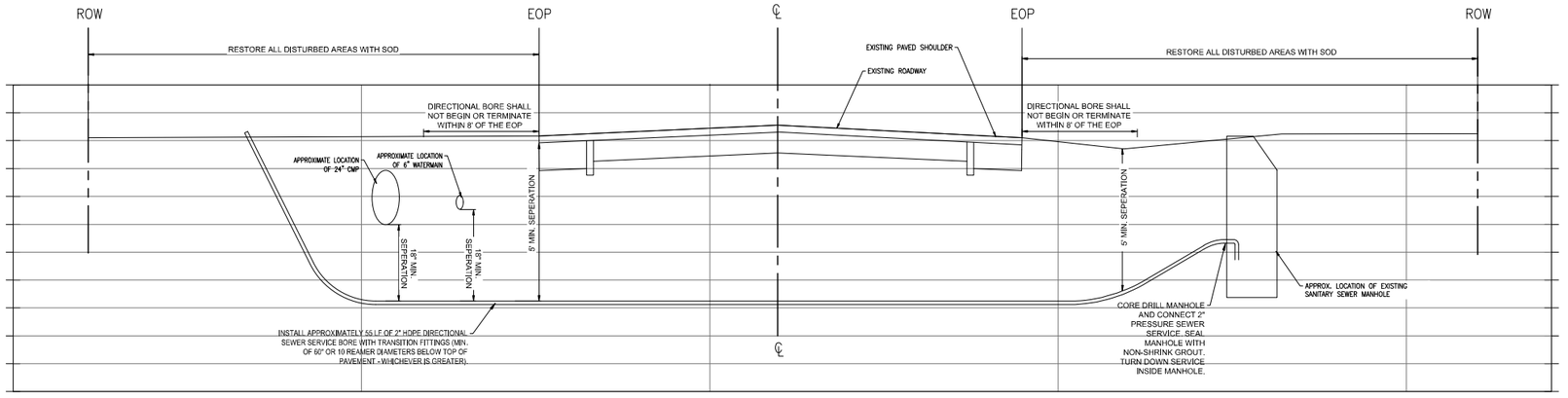
PROJECT NO. 50150343

C4

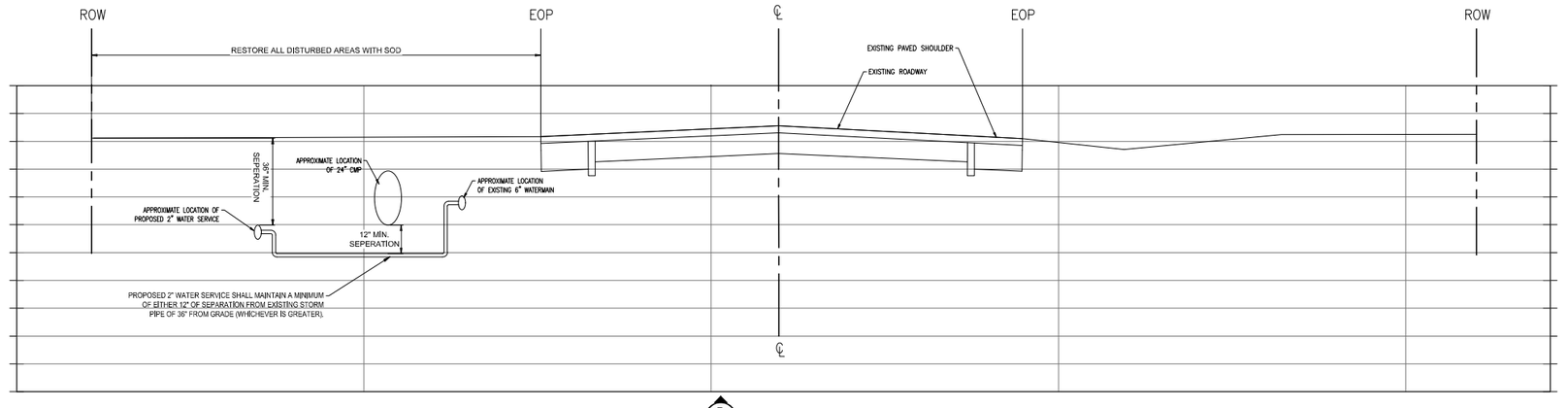
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A/C1 **SECTION**
NTS



B/C1 **SECTION**
NTS

GENERAL NOTES:

1. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. EXISTING UTILITY LOCATIONS HAVE NOT BEEN FIELD VERIFIED BY DEWBERRY AND REPRESENT BEST JUDGEMENT FROM UTILITY OWNERS ONLY.
2. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED ON PLANS.
3. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE 811 (1-800-432-4770 OR 811) TWO BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE PROJECT SITE.
4. ALL PROPOSED UTILITIES SHALL MAINTAIN A MINIMUM OF 36" OF COVER UNLESS SPECIFIED ELSE WISE.

UTILITY OWNERS:

COMPANY	CONTACT	TELEPHONE
AT&T DISTRIBUTION	DINO FARRUGGIO	561-683-2729
CITY OF WEWAHITCHKA	MICHAEL GORTMAN	850-639-2605
CONSOLIDATED COMMUNICATIONS	TRAVIS BURGE	850-229-7338
GULF COAST ELECTRIC CO-OP, INC	COLBY WIGGINS	850-639-2216
MEDIACOM	PAUL PITTS	845-913-6499

ROADWAY NOTES:

1. RECONSTRUCT FRONT SLOPE OF SWALE AT 1:3 OR FLATTER TO MATCH EXISTING
2. SOD ALL DISTURBED AREAS WITHIN FDOT ROW
3. CONTRACTOR SHALL PROVIDE MOT IN ACCORDANCE WITH FDOT STANDARD INDEX 600 SERIES

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GULF COAST ELECTRIC COOPERATIVE SAFE ROOM

GULF COUNTY, FLORIDA

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DATE	JUNE 2026

TITLE

FDOT UTILITY PLAN

PROJECT NO.

C5

SHEET NO.

June 2, 2026 (10:52:52 EST)
K:\GI\160343 GCEC HEADQUARTERS SAFE ROOM\CIVIL\SDF\OLDER_PROPOSED\GCEC SAFE ROOM_DSGN.DWG C5 BY: KGALANOS

LOCATION OF PUBLIC WATER SYSYEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Sewer, Stormwater Force Main, Reclaimed Water (2)	Water Main 3 feet minimum	Water Main 12 inches is the minimum, except for storm sewer, then 6 inches is minimum and 12 inches is preferred.	Alternate 3 ft. minimum Water Main
Vacuum Sanitary Sewer	Water Main 10 feet preferred 3 feet minimum	Water Main 12 inches is preferred 6 inches minimum.	Alternate 3 ft. minimum Water Main
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)	Water Main 10 feet preferred 6 feet minimum (3)	Water Main 12 inches is the minimum, except for storm sewer, then 6 inches is minimum and 12 inches is preferred.	Alternate 6 ft. minimum Water Main
On-Site Sewage Treatment & Disposal System	10 feet minimum	----	----

(1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches.
(2) Reclaimed water regulated under Part III of Chapter 62-610, F.A.C.
(3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer.
(4) Reclaimed water not regulated uin Part III of Chapter 62-610, F.A.C.

DETAIL WATER / SEWER STANDARD SEPARATION

SCALE: N.T.S.

1.) ALL WATER MAINS SHALL BE INSTALLED ACCORDING TO ENGINEERING PLANS AND COUNTY/CITY SPECIFICATIONS.
2.) WATER MAIN SHALL BE INSTALLED ON NORTH OR EAST ROAD CENTERLINE AT A DISTANCE TO INSURE MAIN IS A MINIMUM OF 6' FROM EDGE OF PAVEMENT OR IN ACCORDANCE WITH COUNTY AND STATE RECOMMENDED GUIDELINES FOR UTILITY PLACEMENT.
3.) ALL PAVEMENT SHALL BE CUT AND PATCHED IN ACCORDANCE WITH COUNTY AND STATE SPECIFICATIONS.
4.) ALL VALVES AND MATERIALS SHALL COMPLY WITH AWWA (AMERICAN WATER WORKS ASSOCIATION) STANDARDS.
5.) MATERIALS APPROVED FOR WATER MAIN CONSTRUCTION INCLUDES:
A. PVC CLASS 900 DR 18
B. 6" THRU 16" CAST IRON, CLASS 22 (AWWA C-601), DUCTILE IRON, CLASS 50 (AWWA C-151).
6.) ALL MAIN LINE VALVES SHALL BE RESILIENT SEATED GATE VALVES.
7.) SERVICE TAPS SHALL NOT BE LESS THAN 7/8" (OPENING CUT) IN SADDLE CLAMP.
8.) WATER SERVICE TUBING SHALL BE TYPE K COPPER TUBING AND COMPLY WITH ASTM-B88-55, RATE AT 160 P.S.I.
9.) FLUSH PIPE DISCHARGE SHALL BE OPPOSITE DIRECTION OF VALVE AND AND PIPE SHALL EXTEND 20" TO 30" ABOVE GROUND LEVEL.
10.) MAINS SHALL HAVE A MINIMUM OF 36" COVER. IN DITCH BOTTOMS SERVICE LINES SHALL HAVE A MINIMUM OF 30" OF COVER.
11.) ALL WATER MAINS AND SERVICE LINES SHALL HAVE 12 GAUGE, THIN INSULATED, SOLID COPPER WIRE COILED AROUND ALL WATER MAINS AND SERVICE LINES. ALL WIRE SHALL BE JOINED BY A COMMON BOND USING "BUTT SPLICE". WHERE A SERVICE WIRE IS BEING BONDED TO A MAIN WIRE, THE BOND (CONNECTION) SHALL BE MADE WITH A "T" BUTT SPLICE. IN THE EVENT THE "T" BUTT SPLICE IS NOT AVAILABLE, THE BOND SHALL BE MADE BY TIGHTLY WRAPPING THE SERVICE LINE WIRE TO THE MAIN WIRE WITH A MINIMUM OF TEN WRAPS. WIRE SPLICES SHALL BE WRAPPED WITH SCOTCH E-Z SEAL NO. 2200 ELECTRICAL INSULATING PAD WITH VINYL BACKING. THE SERVICE LINE WIRE SHALL EXTEND 12" INTO THE METER BOX.
12.) "AS BUILT PLANS" SHALL INDICATE LOCATIONS OF ALL SERVICES WITH RESPECT TO LOT CORNERS, LOCATIONS AND TYPES OF ALL FITTINGS, LOCATION OF ALL VALVES, AND DEAD END RUNS WITH THREE (3) PHYSICAL FEATURES (LOT CORNERS, TREES, ETC.).
13.) ALL STUB-OUTS SHALL HAVE WATER EMS MARKERS INSTALLED 18" BELOW GROUND LEVEL.
14.) ALL MAINS AND SERVICE LINES SHALL BE PRESSURE TESTED AND DISINFECTED IN ACCORDANCE WITH AWWA C-601 UNDER SUPERVISION OF TEC INSPECTORS.
15.) COMPACTING REQUIREMENTS: REFERENCE COUNTY, AND STATE SPECIFICATIONS.
16.) ALL SERVICES SHALL BE INSTALLED IN THE APPROXIMATE CENTER OF EACH LOT.
17.) ALL PIPE USE IN WATER DISTRIBUTION SYSTEMS SHALL BE N.S.F. APPROVED FOR POTABLE WATER USE.
18.) THE TWO INCH STAND PIPE SHALL BE THE #77 MAINGUARD HYDRANT BY KUPFERLE FOUNDRY.
19.) A SET OF PLANS WITH TALQUIN STAMP OF APPROVAL SHALL BE LOCATED ON JOB SITE DURING CONSTRUCTION.
20.) ALL CONSTRUCTION STAKING SHALL BE DONE AT CONTRACTORS EXPENSE.
21.) BEFORE ANY CONSTRUCTION BEGINS "SHOP DRAWINGS" SHALL BE APPROVED BY TEC.
22.) CONSTRUCTION OF PIPE ALONG AN ARC SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S INSTALLATION GUIDELINES. THE PIPE SHALL BE CURVED UNIFORMLY THROUGHOUT ITS LENGTH AND NO JOINT DEFLECTION WILL BE ALLOWED. THE MAXIMUM PIPE RADIUS BASED ON J-M BLUE BRUTE AND RING TITE PIPE SHALL BE AS FOLLOWS:

12"	300 FEET
10"	250 FEET
8"	200 FEET
6"	150 FEET
4"	100 FEET
2"	25 FEET

23.) FOR FURTHER DETAILS SEE TEC SPECIFICATIONS.

COMPACTION OF BACKFILL

A. BACKFILL PLACED IN TRENCHES WHICH ARE UNDER THE PAVEMENT, OR WITHIN 4 FEET OF THE EDGE OF PAVING OR WITHIN 2 FEET OF THE BACK OF THE CURBLINES OR WITHIN 2:1 SLOPE OF THESE LIMITS, SHALL EACH BE COMPACTED IN ACCORDANCE WITH THE FOLLOWING:

1. ROADWAY BASE AND SUB-BASE TO 98% AASHTO T-180 (MODIFIED PROCTOR)

2. DEPTH BELOW SUBGRADE:
0 - 3' 100% AASHTO T-99 STANDARD PROCTOR
3' - 10' 98% AASHTO T-99 STANDARD PROCTOR
10' + 95% AASHTO T-99 STANDARD PROCTOR

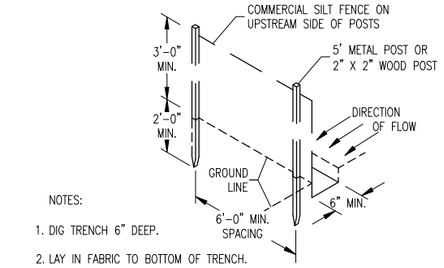
B. THE ENTIRE DEPTH OF BACKFILL PLACED IN TRENCHES THAT ARE OUTSIDE THE AREAS DESCRIBED IN THE ABOVE SCHEDULE MAY BE COMPACTED TO A DENSITY WHICH MATCHES THAT OF UNDISTURBED MATERIALS LOCATED IN IMMEDIATELY ADJACENT AREAS.

TESTING

	TEST	STANDARD	FREQUENCY
A.	PROCTOR LAB DENSITY	AASHTO T-99,T-180, ASTM D 698, ASTM D 1557	ONE PER MATERIAL TYPE
B.	DENSITY (INSITU) ALONG PIPELINE	ASTM D2922 ASTM D1556	ONE PER EVERY 12-INCH DEPTH AND 400 LF OF PIPELINE OR BETWEEN STRUCTURES
C.	DENSITY (INSITU) AT SERVICES	ASTM D2922 ASTM D1556	1 FOR EACH 12" DEPTH OF EACH SERVICE
D.	DENSITY (INSITU) AROUND	ASTM D2922 ASTM D1556	1 FOR EACH 12" DEPTH OF STRUCTURE

COMPACTION & TESTING REQUIREMENTS

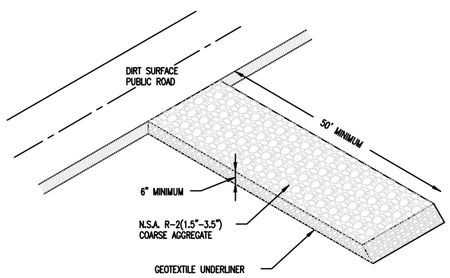
SCALE: N.T.S.



NOTES:
1. DIG TRENCH 6" DEEP.
2. LAY IN FABRIC TO BOTTOM OF TRENCH.
3. BACK TRENCH, COVERING FABRIC.

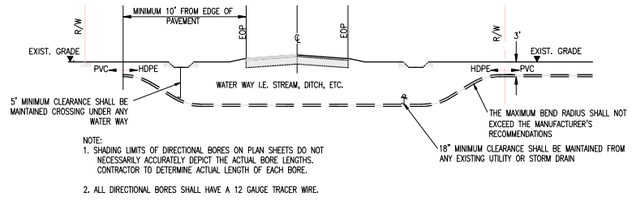
TYPE IV SILT FENCE DETAIL

N.T.S.



CONSTRUCTION ENTRANCE DETAIL

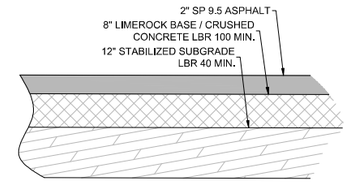
N.T.S.



NOTE:
1. SHADING LIMITS OF DIRECTIONAL BORES ON PLAN SHEETS DO NOT NECESSARILY ACCURATELY DEPICT THE ACTUAL BORE LENGTHS. CONTRACTOR TO DETERMINE ACTUAL LENGTH OF EACH BORE.
2. ALL DIRECTIONAL BORES SHALL HAVE A 12 GAUGE TRACER WIRE.

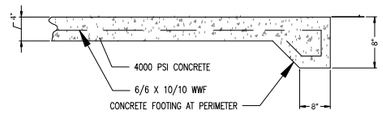
D E T A I L - DIRECTIONAL BORE ROADWAY CROSSING

SCALE: N.T.S.



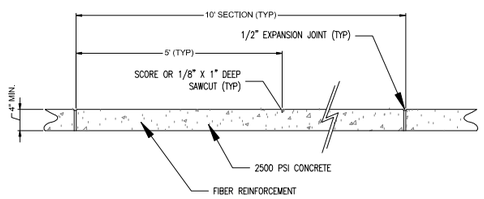
DETAIL ASPHALT SECTION

SCALE: N.T.S.



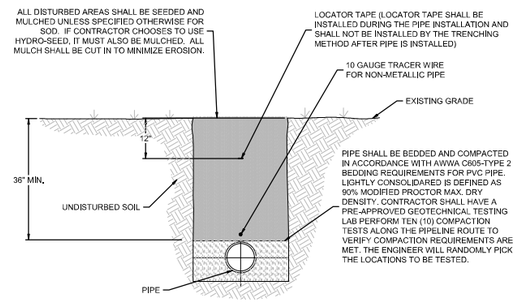
PERIMETER

SCALE: N.T.S.



DETAIL

SCALE: N.T.S.



NOTES:

1. NO TRASH, RUBBISH, ROCKS OR DEBRIS WILL BE ALLOWED IN TRENCHES.
2. ALL PIPE SHALL BE INSTALLED IN DRY TRENCHES.
3. CONTRACTOR MAY BE REQUIRED BY THE ENGINEER TO DE-WATER PIPE TRENCH, IF NECESSARY.
4. AT THE ENGINEERS DISCRETION, THE CONTRACTOR SHALL SUBSTITUTE SELECT BACKFILL IN LIEU OF NATIVE SOILS FOR A UNIT PRICE SPECIFIED IN THE CONTRACTOR'S ~~CONCRETE~~ SIDEWALK
5. THE CONTRACTOR WILL BE COMPENSATED FOR SELECT BACKFILL ONLY IF DIRECTED BY THE ENGINEER IN WRITING. THE ENGINEER MAY ISSUE A FIELD ORDER WITH WRITTEN CONFIRMATION WITHIN 24 HOURS.

TYPICAL PRESSURE PIPE BEDDING DETAIL

N.T.S.

Dewberry
324 Marina Drive
Port St. Joe, FL 32456
850.227.7200

GULF COAST ELECTRIC COOPERATIVE SAFE ROOM

GULF COUNTY, FLORIDA

SEAL

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOSHUA BAXLEY, PE. ON THE DATE NOTED ON THE ELECTRONIC SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

JOSHUA BRYAN BAXLEY, P.E. 67529
EB 0008794

100% DESIGN

SCALE

NO SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY	C. BROWN
APPROVED BY	C. BROWN
CHECKED BY	J. BAXLEY
DATE	JUNE 2026

TITLE

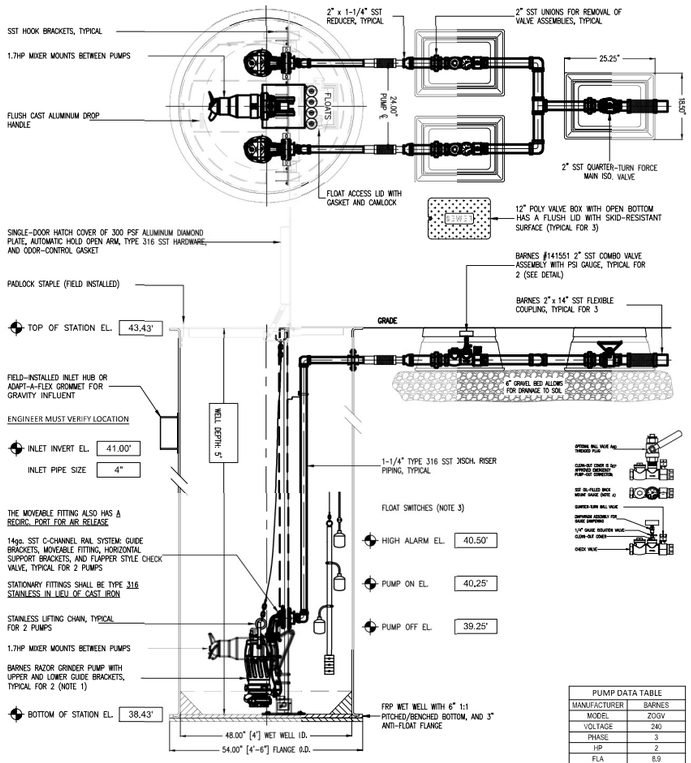
DETAILS

PROJECT NO. 50150343

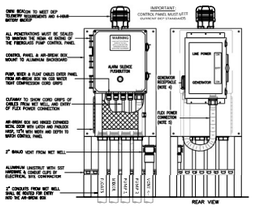
CD1

SHEET NO.

June 2, 2026 (10:52:02 EST)
K:\50150343 GCEC HEADQUARTERS SAFE ROOM\CIVIL\3DFOLDER_PROPOSED\GCEC SAFE ROOM_DSGN.DWG CD1 BY: KGALANOS

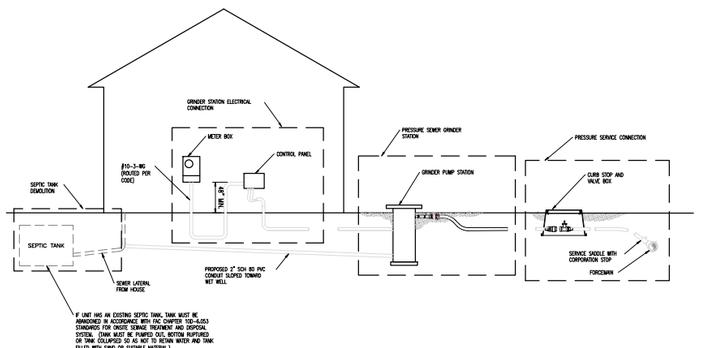


PUMP DATA TABLE	
MANUFACTURER	BARNES
MODEL	ZOGV
VOLTAGE	240
PHASE	3
HP	2
FLA	8.9
RPM	3450
GPM	38
TDH	34'



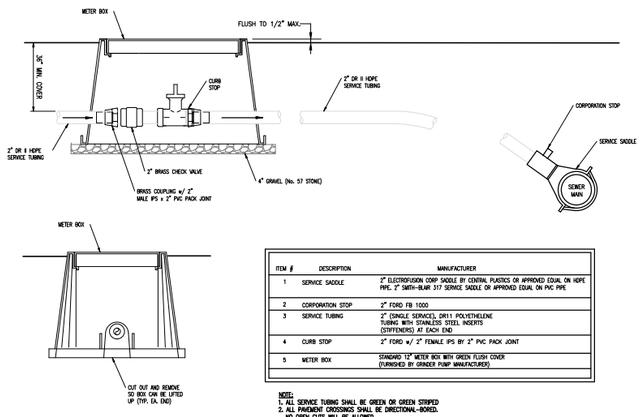
NOTES:

1. THE PUMPS MUST HAVE A 5-YEAR 100% REPAIR PARTS & LABOR WARRANTY AS PROVIDED BY THE MANUFACTURER.
2. GAUGE SIZED TO READ NO MORE THAN 1-1/2 TIMES THE MAXIMUM PRESSURE PUMP PROVIDES AT DEAD HEAD.
3. FLOATS SHALL BE ANCHOR SCIENTIFIC MINI MERCURY SWITCHES. THE OFF, LEAD, AND LAG FLOATS CLAMP TO A WEIGHTED POLE WITH LIFTING CHAIN. THE HIGH FLOAT WITH EXTERNAL WEIGHT IS SUSPENDED SEPARATELY. FLOATS ARE ACCESSED VIA A 10" x 8" HINGED READING LID WITH GASKET AND CAMLOCK.
4. IF WHOLE-BUILDING GEN-SET IS NOT PROVIDED, THE ON-SITE ELECTRICAL CONTRACTOR SHALL INSTALL A 3-WAY SAFETY DISCONNECT SWITCH WITH HUBBELL GENERATOR RECEPTACLE. THE SWITCH AND GENERATOR RECEPTACLE SHALL BE PROVIDED BY OTHERS UNLESS NOTED IN PIPE1 SCOPE OF SUPPLY. THE SWITCH SHALL BE SUITABLE FOR USE AS SERVICE EQUIPMENT, AND SHALL HAVE A DOUBLE-THROW CONFIGURATION FOR LOAD TRANSFER.
5. ON-SITE ELECTRICAL CONTRACTOR SHALL PROVIDE FLEX CONDUIT AND POWER WIRE SIZED PER LOAD REQUIREMENTS. FLEX CONDUIT SHALL PASS THROUGH THE AIR-BREAK BOX, AND HAVE LIQUID-TIGHT CONNECTORS AT THE DISCONNECT SWITCH AND AT THE CONTROL PANEL. REGULAR CONDUIT FITTINGS ARE NOT WEATHER-PROOF AND ARE NOT ACCEPTABLE.
6. ALL HARDWARE MOUNTED INSIDE THE WET WELL SHALL BE TYPE 316 STAINLESS STEEL.
7. IMPORTANT: COMBO VALVE CLEAN-OUT COVERS SERVE AS DEP REQUIRED EMERGENCY PUMP-OUT CONNECTIONS.



DETAIL - TYPICAL GRINDER STATION SINGLE UNIT INSTALLATION

SCALE: N.T.S.

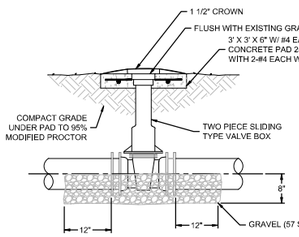


ITEM #	DESCRIPTION	MANUFACTURER
1	SERVICE SADDLE	2" ELECTROFUSION CORP SADDLE BY CENTRAL PLASTICS OR APPROVED EQUAL ON HDPE PIPE. 2" SMITH-BLAIR 317 SERVICE SADDLE OR APPROVED EQUAL ON PVC PIPE
2	CORPORATION STOP	2" FORD FB 1000
3	SERVICE TUBING	2" (SINGLE SERVICE), DR11 POLYETHELENE TUBING WITH STAINLESS STEEL INSERTS (STIFFENERS) AT EACH END
4	CURB STOP	2" FORD w/ 2" FEMALE IPS BY 2" PVC PACK JOINT
5	METER BOX	STANDARD 12" METER BOX WITH GREEN FLUSH COVER (FURNISHED BY GRINDER PUMP MANUFACTURER)

NOTE:
1. ALL SERVICE TUBING SHALL BE GREEN OR GREEN STRIPED
2. ALL PAVEMENT CROSSINGS SHALL BE DIRECTIONAL-BORED. NO OPEN CUTS WILL BE ALLOWED.

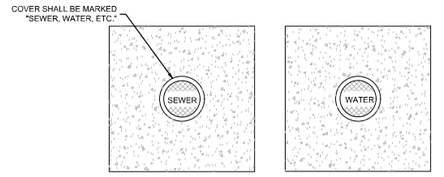
DETAIL - PRESSURE SEWER SERVICE LINE

SCALE: N.T.S.



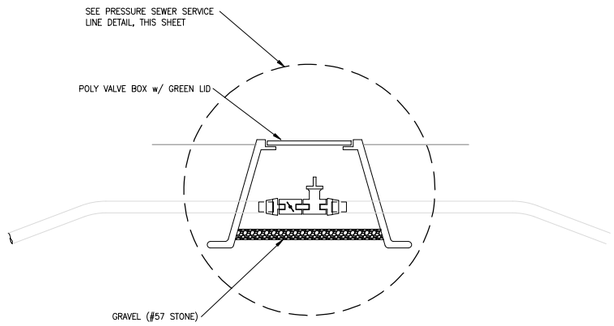
NOTES:

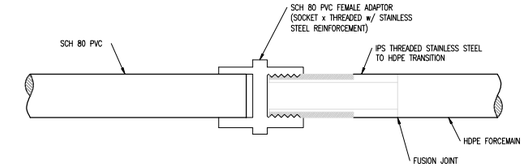
1. ALL CONCRETE PADS SHALL BE FORMED WITH WOOD, NO EXCEPTIONS.
2. CONTRACTOR SHALL PROVIDE DUCTILE IRON RISER EXTENSIONS IF NEEDED. PVC SHALL NOT BE USED FOR EXTENSIONS.

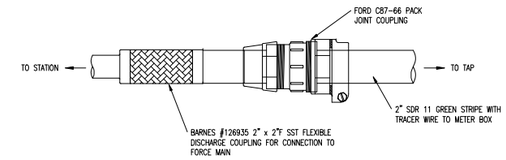


TYPICAL VALVE AND BOX DETAIL

N.T.S.

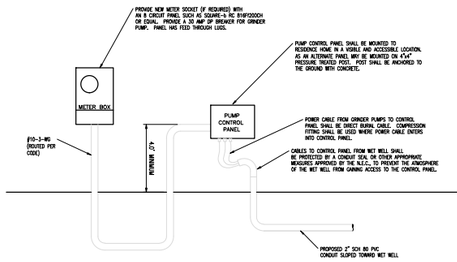






DETAIL - HDPE TO PVC TRANSITION

SCALE: N.T.S. (3" DIAMETER AND SMALLER)

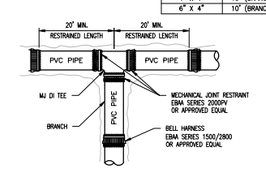


DETAIL - GRINDER STATION ELECTRICAL CONNECTION

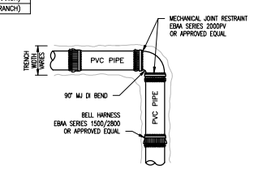
SCALE: N.T.S.

RESTRAINT LENGTH REQUIREMENTS FOR FITTINGS							
FITTING	RESTRAINT LENGTH REQUIRED 4"	RESTRAINT LENGTH REQUIRED 6"	RESTRAINT LENGTH REQUIRED 8"	RESTRAINT LENGTH REQUIRED 10"	RESTRAINT LENGTH REQUIRED 12"	RESTRAINT LENGTH REQUIRED 14"	RESTRAINT LENGTH REQUIRED 16"
11 1/4° BEND	10'	10'	10'	10'	10'	10'	10'
22 1/2° BEND	10'	10'	20'	20'	20'	20'	20'
45° BEND	20'	20'	40'	40'	40'	40'	40'
90° BEND	40'	40'	40'	40'	80'	90'	100'
REDUCER	4X3 = 35'	6X4 = 35'	8X6 = 40'	10X8 = 39'	12X10 = 50'	14X12 = 50'	16X14 = 50'
45° VERTICAL OFFSET	UPPER 30' LOWER 7'	UPPER 30' LOWER 7'	UPPER 40' LOWER 9'	UPPER 48' LOWER 11'	UPPER 68' LOWER 13'	UPPER 78' LOWER 14'	UPPER 88' LOWER 16'
DEAD END	60'	60'	80'	80'	160'	190'	210'

TEE'S	RESTRAINT LENGTH
4" x 4"	10' (BRANCH)
6" x 4"	10' (BRANCH)



TEE RESTRAINT DETAIL
SCALE: N.T.S.



90° BEND RESTRAINT DETAIL
SCALE: N.T.S.

NOTES:

RESTRAINED JOINT PIPING SHALL BE USED FOR ALL THRUST RESTRAINTS. THE ADJACENT SCHEDULE ONES MINIMUM PIPE LENGTHS (FT) TO BE RESTRAINED ON EACH SIDE OF THE STANDARD FITTINGS.

CONCRETE THRUST BLOCKS SHALL NOT BE USED, NO EXCEPTIONS.

SOME PIPE RESTRAINT REQUIREMENTS ARE SHOWN IN THE PLANS FOR SPECIFIC CIRCUMSTANCES.

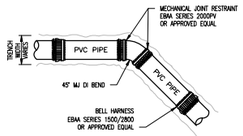
ALL 45° AND 22 1/2° COMBINATION BENDS AND 22 1/2° AND 11 1/4° COMBINATION BENDS SHALL BE TREATED AS 90° BENDS AND 45° BENDS, RESPECTIVELY, FOR RESTRAINED LENGTHS.

ALL FITTINGS AND RESTRAINED JOINTS MUST BE VISUALLY INSPECTED AND APPROVED BY THE ENGINEER BEFORE COVERED.

ALL VALVES SHALL BE RESTRAINED W/EBAA SERIES 2000 PVC. MECHANICAL JOINT RESTRAINT OR APPROVED EQUAL

BELL HARNESS RESTRAINTS SHALL BE EBAA SERIES 1500/2000 OR APPROVED EQUAL.

ALL DIRECTIONAL BORES SHALL BE RESTRAINED A MINIMUM OF 40'



45° BEND RESTRAINT DETAIL
SCALE: N.T.S.
NOTES: 22 1/2° AND 11 1/4° BENDS SHALL BE RESTRAINED THE SAME AS SHOWN ABOVE

DETAIL-THRUST RESTRAINTS

SCALE: N.T.S.

Dewberry
324 Marina Drive
Port St. Joe, FL 32456
850.227.7200

GULF COAST ELECTRIC COOPERATIVE SAFE ROOM

GULF COUNTY, FLORIDA

SEAL

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOSHUA BAXLEY, PE. ON THE DATE NOTED ON THE ELECTRONIC SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

JOSHUA BRYAN BAXLEY, P.E. 67529
EB 0008794

100% DESIGN

SCALE

NO SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY	C. BROWN
APPROVED BY	C. BROWN
CHECKED BY	J. BAXLEY
DATE	JUNE 2026

TITLE

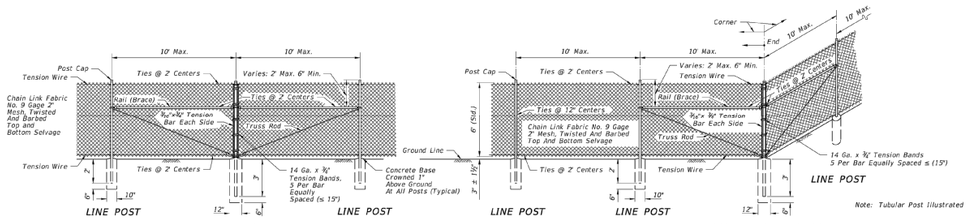
DETAILS

PROJECT NO. 50150343

CD2

SHEET NO.

June 2, 2026 (10:52:52 EST)
K:\50150343 GCEC HEADQUARTERS SAFE ROOM\CIVIL\SFOLDER_PROPOSED\GCEC SAFE ROOM_DSGN.DWG CD2 BY: KGALANOS



GENERAL NOTES

1. This fence to be used generally in urban areas.
2. For supplemental information refer to Specification 550.
3. Chain link fabric, post, truss rods, tension wires, tie wires, stretcher bars, gates and all miscellaneous fittings and hardware shall meet the requirements of AASHTO and ASTM signify current reference.
4. Fence Component Options:
   A. Line post options:
      (1) Galvanized steel pipe, Schedule 40- 1½" nominal dia. zinc galvanized at the rate of 1.8 oz./ft²: ASTM A53 Table 2 (Grade A or B), ASTM F1083 and AASHTO M111.
      (2) Aluminum coated steel pipe: ASTM A53, Table 2 (Grade A or B); Schedule 40- 1½" nominal dia., 1.90" OD; coated at the rate 0.40 oz./ft.: AASHTO M111.
      (3) Aluminum alloy pipe- 2" nominal dia.: ASTM B241 or B221, Alloy 6063, T6.
      (4) Steel H-Beam- 1⅝"x 1⅝": Zinc Galv. 1.8 oz./ft.: AASHTO M111 and Detail.
      (5) Aluminum alloy H-Beam- 1⅝"x 1⅝" Detail.
      (6) Steel C- 1⅝"x 1⅝": Galv.: 1.8 oz/ft: zinc: AASHTO M111; OR , 0.9 oz./ft². zinc-5% aluminum-mischmetal: ASTM F1043 and Detail.
      (7) Resistance welded steel pipe; 50,000 psi min. yield strength ASTM A569/A569M, A653/A653M or undepleted stock of discontinued A446/A446M base materials; ASTM F669 Group IV (Alternative Design); fence industry 2" OD, 1½" NPS, 1.900" dec. equiv., 0.120" min. wall thick, and min. wt. 2.28 lb./ft.; with ASTM F1043 metric equivalent internal coating Types A, B, C or D and external coating Types A, B, or C; the chromate conversion coating of external Type B shall have a thickness of 15µg/in². min. and the polymer film topcoat shall have a thickness of 0.0003" min.; internal and external coatings are not restricted to the combinations of Table 2, ASTM F1043.
   B. Corner, end, and pull post options:
      (1) Galvanized steel pipe, Schedule 40- 2" nominal dia. zinc galvanized at the rate of 1.8 oz./ft²: ASTM A53 Table X 2, ASTM F1083, and AASHTO M111.
      (2) Aluminum coated steel pipe: ASTM A53 steel, X 2 Tablos; Schedule 40; 2" nominal dia., 2.375" OD; coated at the rate 0.40 oz./ft.: AASHTO M111.
      (3) Aluminum alloy pipe- 2½" nominal dia.: ASTM B241 or B221, Alloy 6063,t6.
      (4) Resistance welded steel pipe; 50,000 psi min. yield strength ASTM A569/A569M, A653/A653M or undepleted stock of discontinued A446/A446M base materials; ASTM F669 Group IV (Alternative Design); fence industry 2½" OD, 2" NPS, 2.375" dec. equiv., 0.130"min. wall thick, and min. wt. 3.117 lb./ft.; with ASTM F1043 metric equivalent internal coating Types A, B, C or D and external coating Types A, B, or C; the chromate conversion coating of external Type B shall have a thickness of 15µg/in². min. and the polymer film topcoat shall have a thickness of 0.0003" min.; internal and external coatings are not restricted to the combinations of Table 2, ASTM F1043.
   C. Rail options:
      (1) Galvanized steel pipe, Schedule 40- 1½" nominal dia. zinc galvanized at the rate of 1.8 oz./ft².: ASTM A53 Table X 2, ASTM F1083, and AASHTO M111.
      (2) Aluminum coated steel pipe; ASTM A53 steel, X 2 Tables Schedule 40; 1¼" nominal dia., 1.660" OD: coated at the rate 0.40 oz./ft.: AASHTO M111.
      (3) Aluminum alloy pipe- 1¼" nominal dia.: ASTM B241 or B221, Alloy 6063, T6.
      (4) Resistance welded steel pipe; 50,000 psi min. yield strength ASTM A569/A569M, A653/A653M or undepleted stock of discontinued A445/A445M base materials: ASTM F669 Group IV (Alternative Design); fence industry 1⅝" OD, 1½" NPS, 1.660" dec. equiv., 0.111" min. wall thick, and min. wt. 1.836 lb./ft.; with ASTM F1043 metric equivalent internal coating Types A, B, C or D and external coating Types A, B, or C; the chromate conversion coating of external Type B shall have a thickness of 15µg/in². min. and the polymer film topcoat shall have a thickness of 0.0003" min.; internal and external coatings are not restricted to the combinations of Table 2, ASTM F1043.
   D. Chain link fabric options (2" mesh with twisted and barbed selvage top and bottom for all options except as described in Note 10):
      (1) AASHTO M181 Type I – Zinc Coated Steel, No. 9 gage (coated wire diameter), coated at the rate of 1.8oz/ft² (M181 Class D 2.0 oz./ft². modified to 1.8 oz./ft².).
      (2) AASHTO M181 Type II -Aluminum Coated Steel, No. 9 gage (coated wire diameter), coated at the rate 0.40 oz./ft².
      (3) AASHTO M181 Type IV - Polyvinyl Chloride (PVC) Coated Steel, No. 9 gage (coated core wire diameter), core wire-zinc coated steel, PVC coating. M181 Class A (either extruded or extruded and bonded) or Class B (bonded). See table right. Unless the plans call for M181 standard colors medium green, dark green or black the coating color shall be soft gray matching that of No. 26622 of Federal Standard 595a.
   E. Tension wire options:
      (1) Steel wire No. 7 gage zinc galvanized at the rate of 1.2 oz./ft²: AASHTO M181.
      (2) Aluminum alloy wire with a diameter of 0.1875" or larger conforming to the requirements of ASTM B211, Alloy 5056 Temper H38, or, Alclad Alloy 5056 Temper H192.
      (3) Aluminum coated steel wire No.7 gage coated at the rate of 0.040 oz./ft².: AASHTO M181.
   F. Tie wire and hog ring options:
      (1) Steel wire No.9 gage zinc galvanized at the rate of 1.2 oz./ft².
      (2) Aluminum alloy wire with a diameter of 0.1443" or larger conforming to the requirements of ASTM B211, Alloy 5056 Temper H38, or, Alclad Alloy 5056 Temper H38.
      (3) Aluminum coated steel wire No.7 gage coated at the rate of 0.040 oz./ft².

TYPE IV VINYL COATED FABRIC								
AASHTO M181 Table 4 Redefined As Follows								
Specified Diameter Of Metallic Coated Core Wire		Minimum Weight Of Zinc Coating			PVC Thickness Range			
					M181 Class A (Extruded Or Extruded And Bonded Coating)		M181 Class B (Bonded Coating)	
in.	mm	gage	oz./ft².	g/m²	in.	mm	in.	mm
0.148	3.77	9	0.30	92	0.015 to 0.025	0.38 to 0.64	0.006 to 0.010	0.15 to 0.25

DESIGN NOTE

This index details fencing that is constructed with chain link fabric 6' (nominal) in height and with specific ground clearance.
For fencing of different height or installation details, the fence shall be fully detailed in the Contract plans.

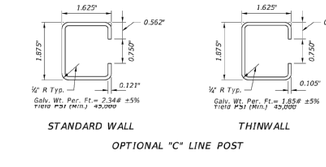
GENERAL NOTES CONTINUED

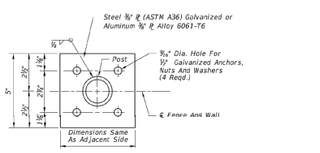
5. Unless a specific material is called for in the plans the Contractor may elect to use either a single type of material or a combination of material types from the component options listed in note 4. Combinations of optional materials are restricted as follows:
   (a) Only one fabric optional material will be permitted between corner and/or end post assemblies.
   (b) Only one line post optional material will be permitted between corner and/or end post assemblies.
   (c) Pull post assemblies shall be optional materials identical to either the line post optional material or the corner and end post assembly optional material; but, pull post assemblies shall be the same optional material between any set of corner and/or end post assemblies.
6. Concrete for bases shall be Class NS concrete as specified in Specification 347 or a packaged, dry material meeting the requirements of a concrete under ASTM C-387. Materials for Class NS concrete may be proportioned by volume and/or by weight.
7. Line post shall be 8'-6" long (Standard). Line post are to be set in concrete as described above or by the following methods:
   (a) In accordance with special details and/or as specifically described in the Contract Plans and Specifications.
   (b) In accordance with ASTM F567 Subsections 5.4 through 5.10 as approved by the Engineer. Line post installed in accordance with Section 5.8 shall be 9'-6" long.
   (c) Post mounted on concrete structure or solid rock shall be mounted in accordance with the base plate detail "Fence Mounting On Concrete Endwalls And Retaining Wall", Sheet 3; or, by embedment in accordance with ASTM F567 Subsection 5.5.

   End, pull and corner post assemblies shall be in concrete as detailed above for all soil conditions other than solid rock. Post within assemblies that are located on concrete structures or solid rock shall be set by base plate or by embedment as prescribed under (b) above for line post.

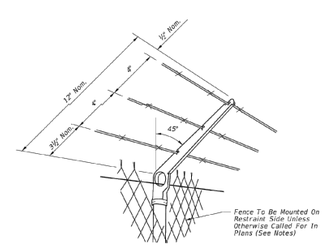
   Line and assembly posts for 6' fence which must be lengthened due to a variation in the normal ground clearance, shall be set an additional 3" in depth for each 1' of additional ground clearance.
8. Pull post shall be used at breaks in vertical grades of 15° or more, or at approximately 350' centers except that this maximum interval may be reduced by the Engineer on curves where the curve is greater than 3°.
9. Corner post are to be installed at all horizontal breaks in fence at 15° or more and as required at vertical breaks over 15° as determined by the Engineer.
10. When fence has an installed top of fabric height less than 6' knuckled top and bottom selvages shall be used unless the plans specifically identify locations for twisted selvage fabrics.
11. Unless sliding gates or special gates are called for in the plans, all gates shall be chain link swing gates meeting the material requirements described and as approved by the Engineer. Payment shall include the gates, single or double, all necessary hardware for installation and any additional length and/or size for posts at the opening. Gates shall be paid for under the contract unit price for Fence Gates, EA.
12. For construction purposes corner post assemblies shall consist of one corner post, two braces, two truss rods, and all necessary fittings and hardware as detailed. End post assemblies shall consist of one end post, one brace, one truss rod and all necessary fittings and hardware as detailed.
13. In areas where there are physical constraints outside the right-of-way which restricts the fence construction, the fabric may be installed on the inside of the posts..

LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	FENCE TYPE B	INDEX	SHEET
11/01/17					550-002	2 of 3

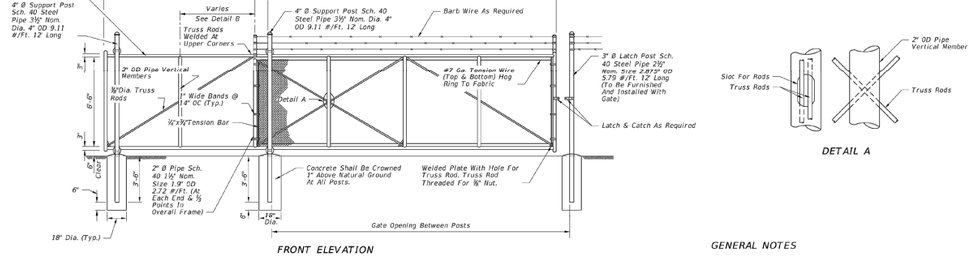


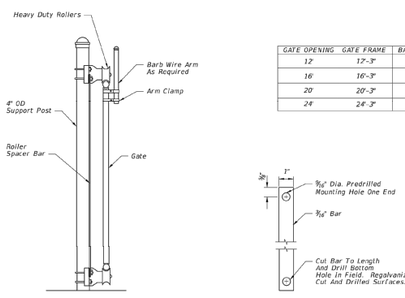


FENCE MOUNTING ON CONCRETE ENDWALL AND RETAINING WALLS



LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	FENCE TYPE B	INDEX	SHEET
11/01/17					550-002	3 of 3





GATE OPENING	GATE FRAME	BACK FRAME
12'	12'-3"	6'
16'	16'-3"	8'
20'	20'-3"	10'
24'	24'-3"	12'

GENERAL NOTES

1. Extruded, rolled or formed components that provide equal strength and stability may be used in lieu of the pipe components shown; and, internal rollers may be used in lieu of the external roller units shown.

   Gate components shall meet or exceed the protective coatings specified on Index 550-002.
2. Steel gate frame shall be fabricated prior to galvanizing, except that truss rods may be fabricated following frame galvanizing provided surfaces damaged during welding are galvanized in accordance with Section 24 of AASHTO M36; or, fabricated from pipe components with protective coating meeting the requirements of Index 550-002 that are tolerant of welding (low burn back), and a protective coating applied to the weld and damaged pipe surfaces that is equivalent to the protective coating of the fabricated pipe stock.
3. All fabric shall be knuckled top and bottom selvages.
4. Concrete for bases shall be either Class NS concrete in accordance with Specification 347 or a packaged, dry material meeting the requirements of a concrete under ASTM C-387. Materials for Class NS concrete may be proportioned by volume and/or by weight.
5. Cost of all gate components shall be included in the contract unit price for Sliding Fence Gate (Cantilever), EA.



LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	CANTILEVER SLIDE GATE TYPE B FENCE	INDEX	SHEET
11/01/17					550-003	1 of 1

Dewberry
324 Marina Drive
Port St. Joe, FL 32456
850.227.7200

GULF COAST ELECTRIC COOPERATIVE SAFE ROOM

GULF COUNTY, FLORIDA

SEAL

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOSHUA BAXLEY, PE. ON THE DATE NOTED ON THE ELECTRONIC SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

JOSHUA BRYAN BAXLEY, P.E. 67529
EB 0008794

100% DESIGN

SCALE

NO SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY C. BROWN
APPROVED BY C. BROWN
CHECKED BY J. BAXLEY
DATE JUNE 2026

TITLE

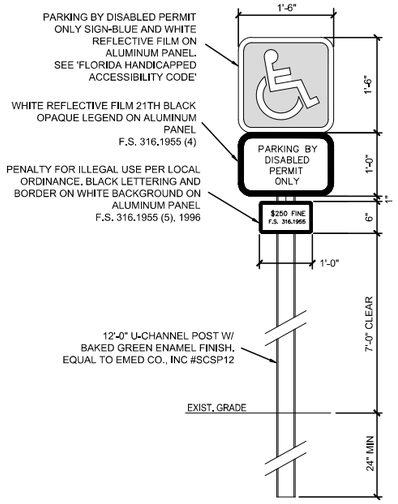
DETAILS

PROJECT NO. 50150343

CD3

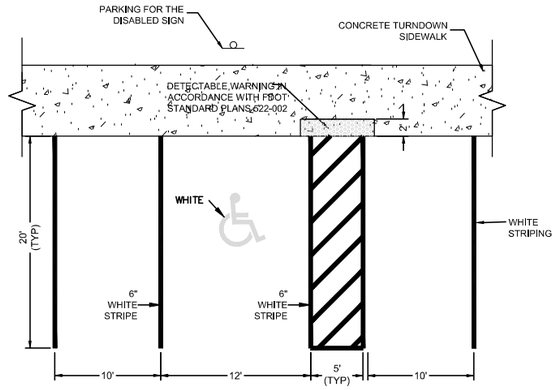
SHEET NO.

June 2, 2026 (10:52:02 EST)
K:\911503\43 GCEC HEADQUARTERS SAFE ROOM\CIVIL\3DFOLDER_PK\PROSED\GCEC SAFE ROOM_DSIGN.DWG CDS BY: KGALANOS



PARKING FOR THE DISABLED SIGN

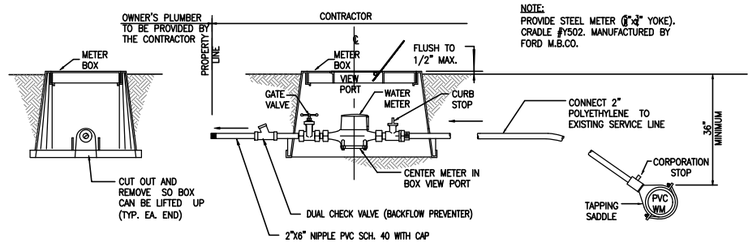
N.T.S.



NOTE:
1. ALL STANDARD SPACES SHALL HAVE WHITE STRIPING.
2. ALL HANDICAP SPACES SHALL HAVE THERMOPLASTIC STRIPING.

TYPICAL STRIPING AND PARKING DIMENSIONS FOR PERPENDICULAR PARKING

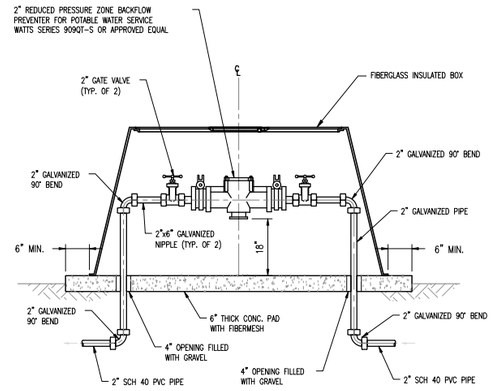
N.T.S.



NOTES:
1) ALL SERVICES BENEATH ASPHALT AND CONCRETE CROSSINGS SHALL OPEN CUT.
2) THIS DETAIL SHALL APPLY TO NEW SERVICE LINE CONNECTIONS.

DETAIL 2" SERVICE LINE SETTING

SCALE: N.T.S.



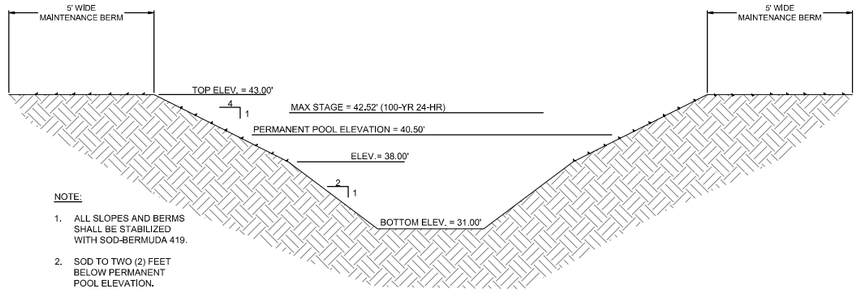
NOTE: CONCRETE PAD SHALL BE 6" LARGER THAN FOOTPRINT OF INSULATED BOX.

DETAIL-2" REDUCED PRESSURE ZONE BACKFLOW PREVENTER

SCALE: N.T.S.

DETAIL CONCRETE DISCHARGE STRUCTURE (DS-OUTFALL)

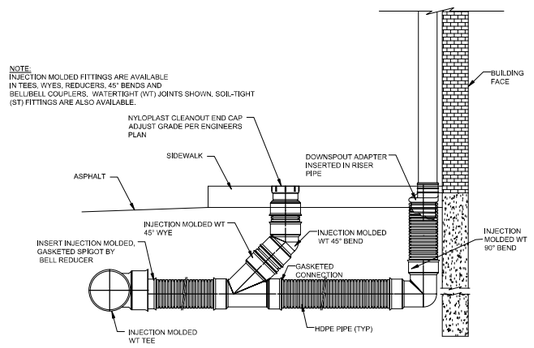
SCALE: N.T.S.



NOTE:
1. ALL SLOPES AND BERMS SHALL BE STABILIZED WITH SOD-BERMUDA 419.
2. SOD TO TWO (2) FEET BELOW PERMANENT POOL ELEVATION.

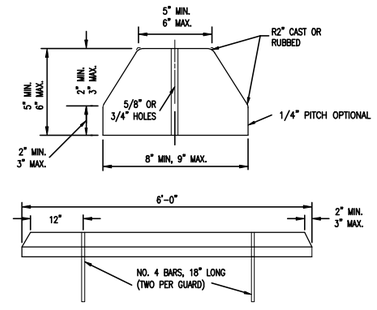
SECTION TYPICAL POND SECTION

SCALE: N.T.S.



DOWNSPOUT CONNECTION TO STORM DRAIN

N.T.S.



CONCRETE WHEELSTOP DETAIL

N.T.S.

Dewberry
324 Marina Drive
Port St. Joe, FL 32456
850.227.7200

GULF COAST ELECTRIC COOPERATIVE SAFE ROOM

GULF COUNTY, FLORIDA

SEAL

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JOSHUA BRYAN BAXLEY, P.E. 67529
EB 0008794

100% DESIGN

SCALE

NO SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY	C. BROWN
APPROVED BY	C. BROWN
CHECKED BY	J. BAXLEY
DATE	JUNE 2026

TITLE

DETAILS

PROJECT NO. 50150343

CD4

SHEET NO.

June 2, 2026 (10:52:32 EST)
K:\50150343 GCEC HEADQUARTERS SAFE ROOM\CIVIL\DFOLDER_PROPOSED\GCEC SAFE ROOM_DSGN.DWG CD4 BY: KGALANOS

GENERAL CONSTRUCTION

A. THIS PROJECT HAS BEEN DESIGNED FOR THE WEIGHTS OF MATERIALS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGING, BRACING, SHEETING, SHORING, ETC.

B. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL STRUCTURAL ELEVATIONS AND DIMENSIONS WITH EXISTING CONDITIONS AND WITH OTHER PROJECT DRAWINGS; COORDINATE LOCATION OF SLEEVES AND OPENINGS THROUGH THE STRUCTURE, SLAB DEPRESSIONS, FLOOR DRAINS, INSERTS, AND OTHER RELATED ITEMS.

C. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CORRECTNESS OF DIMENSIONS OR QUANTITIES AND FOR THE FITTING TO OTHER WORK; FOR WORK TO BE CONFIRMED AND CORRELATED AT THE SITE; FOR INFORMATION PERTAINING TO THE FABRICATION PROCEDURE OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION; AND FOR THE COORDINATION OF STRUCTURAL WORK WITH THE WORK OF ALL OTHER TRADES, THE VERIFICATION OF THE PHYSICAL INTERRELATIONSHIPS OF ELEMENTS OF THE WORK FROM PLANS AND SPECIFICATIONS AND IN THE FIELD IS THE CONTRACTOR'S SOLE RESPONSIBILITY. REVIEW OF CONTRACTOR'S SUBMISSIONS DOES NOT RELIEVE CONTRACTOR FROM THESE RESPONSIBILITIES.

D. SEE ARCHITECTURAL DRAWINGS FOR EXACT DETAIL AND LOCATION OF OPENINGS OR RECESSES IN WALLS AND SLABS AND OTHER DIMENSIONS NOT SHOWN IN STRUCTURAL DRAWINGS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR INFORMATION REGARDING SIZE AND LOCATION OF OPENINGS FOR DUCTS, PIPES, CONDUITS, MACHINE PADS, AND THE LIKE. PROPOSED OPENINGS OR RECESSES IN THE STRUCTURE WHICH ARE NOT SHOWN IN THE STRUCTURAL DRAWINGS, EITHER DIRECTLY OR BY TYPICAL DETAIL, SHALL BE SUBMITTED FOR ACCEPTANCE.

E. HOLES OF ANY SIZE SHALL NOT BE DRILLED INTO STRUCTURAL MEMBERS, EXCEPT AS SHOWN IN THE DRAWINGS, WITHOUT THE ACCEPTANCE OF THE ENGINEER.

F. IT IS INTENDED THAT ALL MEMBERS BE FABRICATED AND ERECTED FREE OF SHOP AND FIELD SPLICES. IF FIELD CONDITIONS NECESSITATE THE NEED FOR FIELD SPLICING OF MEMBERS SUBMIT SPLICE LOCATIONS FOR ENGINEER'S ACCEPTANCE. WHERE FIELD SPLICING IS ACCEPTED, SPLICES SHALL BE SHOWN IN THE SHOP DRAWINGS.

G. WHERE REQUIRED, FIREPROOF ALL STEEL, EXCEPT WHERE CONCRETE FIREPROOFING IS SHOWN IN THE DRAWINGS, IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS.

H. ALL CONCRETE MASONRY UNITS CONTAINING MASONRY ANCHORS, DOWELS, REINFORCING STEEL AND THE LIKE SHALL BE FILLED SOLID WITH GROUT.

I. ALL STEEL BUILDING FRAMES, UNLESS OTHERWISE NOTED, ARE NON-SELF SUPPORTING STEEL FRAMES. THE CONTRACTOR SHALL PROVIDE TEMPORARY LATERAL BRACING FOR STEEL FRAMES UNTIL ALL OTHER DIAPHRAGMS AND/OR SHEAR WALLS HAVE BEEN INSTALLED.

FOUNDATIONS

A. THE STRUCTURAL FOUNDATION DESIGN IS BASED UPON RECOMMENDATIONS IN THE GEOTECHNICAL REPORT No. P22-0422 PREPARED BY SOUTHERN EARTH SCIENCES DATED 23/08/2022 SEE PROJECT SPECIFICATIONS FOR INFORMATION REGARDING THE REPORT AND/OR BORING LOGS.

B. DEWATERING SHALL BE PROVIDED AS REQUIRED SO THAT EXCAVATION, CONCRETE WORK AND BACKFILLING ARE PERFORMED IN THE DRY.

C. BEFORE PROCEEDING WITH THE WORK, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SCOPE OF THE FOUNDATION WORK INCLUDING SOIL AND WATER CONDITIONS. THE SOIL CONDITIONS INDICATED IN THE CONSTRUCTION DOCUMENTS ARE FOR GENERAL INFORMATION ONLY, AND ACTUAL SITE CONDITIONS MAY VARY.

D. ACTUAL SOIL CONDITIONS ENCOUNTERED DURING CONSTRUCTION MAY REQUIRE ELEVATION MODIFICATIONS FOR THE FOUNDATIONS DEPTHS AS INDICATED ON THE DESIGN DRAWINGS. SEE THE SPECIFICATIONS FOR REQUIREMENTS FOR MODIFICATION TO THE FOUNDATION DESIGN.

E. ALL FOOTINGS SHALL REST ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL WHICH HAS A MINIMUM ALLOWABLE BEARING CAPACITY EQUAL TO OR GREATER THAN 1500 PSF. ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND CERTIFIED BY A QUALIFIED SOILS TESTING FIRM.

F. BACKFILL SHALL BE PLACED EVENLY AND COMPACTED ON EACH SIDE OF ALL SUBGRADE STRUCTURAL ELEMENTS TO PRODUCE APPROXIMATELY EQUAL AND OPPOSITE LATERAL PRESSURES.

G. SUBGRADE STRUCTURAL ELEMENTS SUBJECTED TO DIFFERENTIAL LATERAL SOIL PRESSURE SHALL BE ADEQUATELY BRACED BY THE CONTRACTOR UNTIL THE STRUCTURAL SUPPORT WHICH PROVIDES LATERAL RESTRAINT HAS BEEN INSTALLED.

H. ALL FOUNDATIONS SHALL BE CENTERED ON WALL AND COLUMN CENTERLINES UNLESS OTHERWISE INDICATED BY AN OFFSET DIMENSION ON PLAN OR BY DETAIL.

I. THE FOOTING ELEVATIONS SHOWN ON THE DRAWINGS MEET THE REQUIRED DEPTHS FOR ALLOWABLE BEARING CAPACITY AND/OR FROST PROTECTION. ACTUAL FIELD CONDITIONS ENCOUNTERING UNSUITABLE SOIL MAY REQUIRE ADDITIONAL EXCAVATION AND/OR COMPACTED STRUCTURAL FILL. THE CONTRACTOR SHALL REPORT ANY OF THESE CONDITIONS BEFORE PROCEEDING WITH ANY ADDITIONAL WORK.

J. NO FOUNDATIONS SHALL BE PLACED ON OR AGAINST SUBGRADE CONTAINING FREE WATER, ICE, OR FROST.

STRUCTURAL EARTHWORK

A. THE BUILDING SITE SHOULD BE STRIPPED OF VEGETATION, ROOTS, DEBRIS, AND OTHER ORGANIC MATERIAL (2 TO 4 INCHES).

B. THE TOP FOUR TO FIVE FEET ARE VERY LOOSE AND IN A SATURATED CONDITION. REMOVE THE TOP FIVE FEET OF MATERIAL AND REPLACE WITH STRUCTURAL FILL. REFER TO THE GEOTECHNICAL REPORT FOR REMOVAL AND SELECT FILL REQUIREMENTS.

C. EXISTING MATERIAL AT BOTTOM OF EXCAVATION SHALL BE FIRM AND ABLE TO SUPPORT CONSTRUCTION LOADS WITHOUT DISPLACEMENT PRIOR TO PLACEMENT OF SELECT FILL.

D. COMPACTION SHALL BE PERFORMED USING A HEAVY PNEUMATIC TIRED ROLLER, LOADED DUMP TRUCK OR SIMILAR PIECE OF EQUIPMENT WEIGHING 25 TONS.

E. COMPACTION AND APPROVAL OF EXISTING SUBGRADE SHALL BE SUPERVISED BY AN INDEPENDENT GEOTECHNICAL ENGINEERING TESTING AGENCY.

F. SELECT FILL SHALL BE PLACED AND COMPACTED TO A DEPTH DIRECTLY BELOW THE GRAVEL LAYER BENEATH THE SLAB ON GRADE.

SELECT FILL

A. SELECT FILL SHALL CONSIST OF EITHER SANDY CLAY OR CLAYEY SAND WITH LOW PLASTICITY. REFER TO GEOTECHNICAL REPORT FOR FILL REQUIREMENTS.

B. THE MOISTURE CONTENT OF THE SELECT FILL SHALL RANGE BETWEEN TWO (2) PERCENTAGE POINT BELOW TO TWO (2) PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT. THESE GUIDELINES SHOULD BE ADHERED TO FOR THE EXISTING SUBGRADE PRIOR TO PLACEMENT OF SELECT FILL.

C. SELECT FILL SHALL BE PLACED IN LOOSE LIFTS NO THICKER THAN EIGHT (8) INCHES IN UNCOMPACTED THICKNESS AND COMPACTED TO NINETY FIVE (95) PERCENT OF THE STANDARD PROCTOR DENSITY. THE TOP TWO FEET SHOULD BE COMPACTED TO 100 PERCENT OF THE STANDARD PROCTOR DENSITY. ONE DENSITY TEST PER LIFT FOR EACH 5,000 SQUARE FEET OF COMPACTED AREA WITH A MINIMUM OF TWO (2) TESTS PER LIFT.

D. SELECT FILL SHALL BE UNIFORM IN MATERIAL TYPE AND MOISTURE CONTENT. CLODS AND CHUNKS OF MATERIAL SHALL BE BROKEN AND MIXED WITH FILL MATERIAL TO ACHIEVE A UNIFORM MOISTURE CONTENT.

SLAB-ON-GRADE

A. SLAB-ON-GRADE SHALL BE PLACED UPON A 15 MIL VAPOR RETARDER LOCATED ABOVE A GRAVEL BASE AND SELECT FILL PER THE "SELECT FILL" NOTES ON THIS SHEET UNLESS OTHERWISE NOTED.

B. CONTRACTION JOINTS SHALL BE 1/4 THE FLOOR SLAB DEPTH AND LOCATED WITHIN THE SLAB AS SOON AS POSSIBLE, BUT NO LATER THAN FOUR (4) HOURS IN HOT WEATHER OR TWELVE (12) HOURS IN COLD WEATHER AFTER PLACING OF CONCRETE TO AVOID PREMATURE CRACKING IN THE FLOOR SLAB.

C. CONCRETE FINISHES AND SPRAY ON CURING/SEALING COMPOUNDS SHOULD BE COORDINATED WITH ARCHITECTURAL FLOORING FINISHES FOR COMPATIBILITY.

D. ALL SLABS ON GRADE, PADS, FILLS AND TOPPINGS SHALL HAVE A MINIMUM OF 6x6-W2.9xW2.9 WWF (UNO) PLACED 1" FROM THE TOP OF THE SLAB. LAP TWO WWF PANELS AT EDGES AND ENDS AND PROVIDE ADDITIONAL REINFORCING WHERE SHOWN ON DRAWINGS.

E. IN SLABS-ON-GRADE, PROVIDE JOINTS AROUND EACH COLUMN AND BETWEEN COLUMNS AS SHOWN, OR NOT OVER 12'-0" FOR 4" SLABS IN EACH DIRECTION. PLACE CONCRETE IN A STRIP CAST MANNER, ALTERNATING STRIPS. LIMIT LENGTH OF PLACEMENT TO 120'-0" AND WIDTH OF 25'-0" MAXIMUM. COMPLETE PLACEMENT IN ONE CONTINUOUS OPERATION, FOR SLABS-ON-GRADE RECEIVING ARCHITECTURAL FINISHES, VERIFY JOINT LOCATIONS WITH ARCHITECT.

F. EPOXY JOINT FILLER SHALL BE APPLIED TO ALL EXPOSED CONTROL JOINTS.

CONCRETE

A. UNLESS OTHERWISE NOTED:
1. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60,
2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064.

B. PROVIDE CONCRETE WITH THE FOLLOWING PROPERTIES IN THE LOCATIONS INDICATED:

F'C (PSI)	UNIT WEIGHT	LOCATIONS
3,000	NORMAL WEIGHT	FOUNDATIONS
4,000	LIGHTWEIGHT	SLAB ON A METAL DECK

C. WATER REDUCING ADMIXTURE SHALL BE INCORPORATED INTO ALL CONCRETE AT A MINIMUM DOSAGE AS RECOMMENDED BY THE MANUFACTURER. WATER VAPOR REDUCING ADMIXTURE SHALL BE INCORPORATED INTO ALL SLAB-ON-GRADE AND ELEVATED SLABS AT A MINIMUM DOSAGE AS RECOMMENDED BY THE MANUFACTURER. ALL CONCRETE OTHER THAN FOR FOOTINGS, SHALL BE AIR-ENTRAINED TO 4 TO 6 PERCENT. EXTERIOR CONCRETE SHALL BE AIR ENTRAINED TO 5 TO 7 PERCENT. CALCIUM CHLORIDE IS NOT PERMITTED FOR USE IN CONCRETE.

D. SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE CONTRACT DRAWINGS OR AS ACCEPTED BY THE ENGINEER. UNLESS OTHERWISE SHOWN OR NOTED REINFORCING STEEL SHALL BE SPLICED TO DEVELOP ITS FULL TENSILE CAPACITY IN ACCORDANCE WITH ACI 318.

E. REINFORCING BAR DEVELOPMENT LENGTHS, AS COMPUTED IN ACCORDANCE WITH ACI 318, FORM THE BASIS FOR BAR EMBEDMENT LENGTHS AND BAR SPLICED LENGTHS SHOWN IN THE DRAWINGS. APPLY APPROPRIATE MODIFICATION FACTORS FOR TOP STEEL, BAR SPACING, COVER AND THE LIKE.

F. DETAILING OF REINFORCING STEEL SHALL CONFORM TO "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315).

G. MINIMUM CONCRETE COVER FOR REINFORCEMENT (SUBJECT TO TOLERANCES PERMITTED BY CODE) SHALL BE AS GIVEN IN PARAGRAPH 7.7.1 OF ACI 318, UNLESS OTHERWISE INDICATED.

H. ALL BEAM AND SLAB CONSTRUCTION, INCLUDING UPSET BEAMS, SHALL BE CAST MONOLITHICALLY WITHOUT HORIZONTAL CONSTRUCTION JOINTS, UNLESS SHOWN IN THE CONTRACT DRAWINGS.

I. LOCATION OF ALL CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONFORMANCE WITH ACI 318, AND ACCEPTANCE OF THE ENGINEER. DRAWINGS SHOWING LOCATION OF DETAILS OF THE PROPOSED CONSTRUCTION JOINTS SHALL BE SUBMITTED WITH REINFORCING STEEL SHOP DRAWINGS.

J. SPLICES OF WWF, AT ALL SPLICED EDGES, SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRE PLUS 2 INCHES, NOR LESS THAN 8".

K. WELDING OF REINFORCING BARS IS NOT PERMITTED UNLESS SPECIFICALLY CALLED FOR IN THE DRAWINGS.

L. ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT BY CONSTRUCTION TRAFFIC OR CONCRETE, TIE WIRE SHALL BE 16 GAUGE CONFORMING TO ASTM A82.

M. REINFORCING STEEL SUPPORTED ON THE GROUND SHALL BE PLACED ON PRECAST BLOCKS PRODUCED SPECIFICALLY FOR THE INTENDED PURPOSE.

N. NON-SHRINK GROUT SHALL BE PREMIXED AND BAGGED BY MANUFACTURER. ACCEPTABLE NON-SHRINK GROUT: MASTER FLOW 713 BY BASF OR OTHER ACCEPTED BY ENGINEER.

O. ALL KEYS FOR CONSTRUCTION JOINTS SHALL BE 2"x4" (NOMINAL) UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS. WHERE KEYS ARE NOT SHOWN AT CONSTRUCTION JOINTS, PROVIDE ROUGHENED SURFACES OF 1/4" AMPLITUDE, FREE OF LAITANCE AS DESCRIBED IN SECTION 11.6.9 OF ACI 318.

P. SIZE AND LOCATION OF BASES, SUPPORTS AND EMBEDDED ANCHORAGES FOR EQUIPMENT SHALL BE COORDINATED WITH EQUIPMENT SUPPLIER AND SHALL BE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.

Q. UNLESS NOTED OTHERWISE, NO CONCRETE SHALL BE POURED WITHOUT A MINIMUM REINFORCEMENT OF .002 TIMES THE CONCRETE CROSS SECTIONAL AREA IN EACH DIRECTION.

R. ALL FIELD BENDING OF REINFORCING SHALL BE DONE COLD. HEATING OF BARS SHALL NOT BE PERMITTED.

S. NO ALUMINUM OF ANY TYPE SHALL BE ALLOWED IN THE CONCRETE WORK, UNLESS COATED TO PREVENT ALUMINUM-CONCRETE REACTION.

T. NO ELECTRICAL CONDUIT SHALL BE PLACED ABOVE THE WELDED WIRE FABRIC IN SLABS ON GRADE OR CONCRETE PLACED ONTO COMPOSITE METAL DECK. MAXIMUM SIZE OF CONDUIT SHALL BE 1/3 THE SLAB THICKNESS (ABOVE DECK ON COMPOSITE SLAB) INCLUDING CROSSOVERS. CONDUIT SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTER.

U, UNLESS SHOWN OTHERWISE, PROVIDE DOWELS IN FOOTING FOR WALLS AND COLUMNS, PIERS, PILASTERS, ETC. TO MATCH REINFORCING ABOVE.

V. CONCRETE FINISHES AND SPRAY-ON CURING/SEALING COMPOUNDS SHALL BE COORDINATED WITH ARCHITECTURAL FLOORING FINISHES FOR COMPATIBILITY.

POST-INSTALLED ANCHORS

A. ALL CONCRETE EXPANSION ANCHORS SHALL BE GALVANIZED OR ZINC PLATED.

B. GROUT ALL CMU CELLS FULL WITHIN A 12" RADIUS WHEN CONCRETE ANCHORS ARE PLACED INTO CMU WALLS.

C. UNLESS OTHERWISE INDICATED ON PLANS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES, OR APPROVED EQUAL:

	ADHESIVE ANCHOR	MECHANICAL ANCHOR
SOLID CONCRETE	HILTI HY 200 SAFE SET SYSTEM (ICC ESR-3187) A36 U.N.O.	HILTI KWIK HUS EZ (ICC ESR-3027)
GROUTED MASONRY	HILTI HY 270 (ICC ESR-2682) A36 U.N.O.	HILTI KWIK BOLT 3 (ICC ESR-1385)
HOLLOW MASONRY OR BRICK	HILTI HY 270 WITH APPROPRIATE SCREEN TUBE (ICC ESR-3342) A36 U.N.O.	HILTI HLC SLEEVE ANCHOR

D. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE.

E. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.

F. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

G. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF MATERIAL. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

H. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS.

STRUCTURAL STEEL

A. ALL STRUCTURAL STEEL SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING:

AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" THIRTEENTH EDITION - ALLOWABLE STRESS DESIGN.

B. ALL STRUCTURAL STEEL UNLESS OTHERWISE NOTED SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:

STRUCTURAL "W" AND 'WT SHAPES	A992 GRADE 50
STRUCTURAL CHANNEL AND ANGLES	A36
STRUCTURAL PLATE AND BARS	A36
STEEL TUBING	A500 GRADE B

C. WHERE NO REACTION IS SHOWN OR NOTED IN THE DRAWINGS, PROPORTION CONNECTIONS TO CARRY THE VERTICAL REACTION INDICATED IN REACTION TABLE SHOWN IN THE TYPICAL DETAILS, IN ACCORDANCE WITH AISC REQUIREMENTS ADDITIONALLY END REACTIONS ARE SHOWN THUS:

[V, H] INDICATES CONNECTION DETAILS MEETING AISC REQUIREMENTS PROPORTIONED FOR THE GIVEN REACTIONS. V = VERTICAL REACTION AND H = HORIZONTAL REACTION (AXIAL LOAD IN BEAM) N KIPS. IF ONLY ONE VALUE IS GIVEN, H=0.

D. IF PARTS TO BE JOINED WITH FILLET WELDS CANNOT BE BROUGHT INTO DIRECT CONTACT, THE FILLET WELD SHALL BE INCREASED IN SIZE ABOVE THAT INDICATED IN THE DRAWINGS. THE INCREASED SIZE SHALL BE EQUAL TO OR GREATER THAN THE GAP. WELDING ELECTRODES SHALL BE E70XX LOW HYDROGEN AND SHALL OBTAIN PHYSICAL PROPERTIES AFTER WELDING EQUIVALENT TO E7018 ELECTRODES.

E. UNLESS OTHERWISE SHOWN OR NOTED, CONNECTIONS FOR BEAMS OR GIRDERS SHALL BE PROPORTIONED TO DELIVER THEIR END REACTIONS TO THE CENTER OF GRAVITY OF THE MEMBERS TO WHICH THEY FRAME, CONNECTIONS FOR BEAMS AND GIRDERS FRAMING TO THE FLANGES OF COLUMNS SHALL BE PROPORTIONED TO DELIVER THEIR END REACTIONS TO THE FACE OF THE COLUMN FLANGE TO WHICH THEY FRAME.

F. REINFORCING IS TO BE PROVIDED TO BEAMS AT CONNECTIONS WHERE CUTS AND COPES HAVE REDUCED THE SHEAR OR MOMENT CAPACITY BELOW THAT REQUIRED TO SUSTAIN THE REACTION. FLANGES AND WEBS ARE TO BE REINFORCED WHERE THE LOCAL CAPACITY TO SUSTAIN LOAD IS INADEQUATE.

G. CAMBER WHERE REQUIRED IS INDICATED BY "C" IN PLANS, FOLLOWED BY THE ORDINATE IN INCHES. BEAMS SHALL BE INSTALLED WITH THEIR NATURAL CAMBER UP.

H. PROVIDE 5/16 INCH THICK SHELF ANGLES AT COLUMNS AND BEAMS AS REQUIRED TO PROVIDE END AND SIDE DECK SUPPORTS.

I. ON SHOP DRAWINGS, WELDS AND NONDESTRUCTIVE TESTS SHALL BE INDICATED BY USING THE SYMBOLS CONFORMING TO AWS A2.4, "SYMBOLS FOR WELDING AND NONDESTRUCTIVE TESTING". WHERE NECESSARY FOR CLARITY, INDICATE WELDING PROCEDURE DESIGNATION OR OTHER DATA IN THE TAIL OF THE WELDING SYMBOL.

J. STEEL FRAME SHALL BE ERECTED TRUE AND PLUMB WITHIN SPECIFIED TOLERANCES. PROVIDE TEMPORARY BRACING IN ADDITION TO MEMBERS SHOWN IN THE DRAWINGS IN ORDER TO RESIST SAFELY ALL IMPOSED LOADS APPLIED DURING CONSTRUCTION AND TO MAINTAIN CORRECT ALIGNMENT. DESIGN OF TEMPORARY SHORING, BRACING AND GUYING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

K. ANCHOR BOLTS AND BASE PLATES SHALL BE LOCATED AND BUILT INTO CONNECTING WORK, PRESET BY TEMPLATES OR SIMILAR METHODS. DO NOT GROUT BASE PLATES UNTIL BEAMS AND GIRDERS ARE PERMANENTLY ATTACHED TO COLUMNS. STRUCTURAL MEMBERS SHALL BE PERMANENTLY ATTACHED AND MADE RIGID ONLY AFTER ALL ELEMENTS TO BE ATTACHED HAVE BEEN BROUGHT WITHIN THE SPECIFIED TOLERANCES.

L. ALL WELDED CONNECTIONS FOR STRUCTURAL STEEL SHALL CONFORM TO THE MOST CURRENT AWS "STRUCTURAL WELDING CODE," D1.1.

M. UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS, ALL WELDED CONNECTIONS SHALL BE MADE WITH E70-XX ELECTRODES. SHIELDED METAL ARC WELDING PROCESS SHALL USE LOW HYDROGEN ELECTRODES. FILLER MATERIAL FOR WELDING PROCESS SHALL HAVE A YIELD STRENGTH OF 70 KSI. ALL FILLET WELDS SHALL BE 1/4" MIN U.N.O.

N. PROVIDE ALL BOLT HOLES, STUDS, ANCHORS, AND CLIP ANGLES REQUIRED TO ATTACH OTHER MATERIALS AS SHOWN ON THE DRAWINGS.

O. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36 (U.O.N.), AND SHALL BE PLACED WITHIN THE FOLLOWING TOLERANCES:

TOP OF ANCHOR BOLT ELEVATION	(+) 1" TO (-)3/8"
OUT OF POSITION OF ANCHOR BOLTS	(+/-)1/8"
ELEVATION OF FINISHED CONCRETE SURFACE FOR BEARING	(+/-)1/8"

P. ALL GROUT BELOW ALL COLUMN BASE PLATES AND BEARING PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT UNLESS OTHERWISE SHOWN OR NOTED. GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 7 DAYS.

Q. SEE MASONRY NOTES AND ARCHITECTURAL DRAWINGS FOR COORDINATION AND REQUIREMENTS OF STEEL LINTELS IN MASONRY WALLS.

R. ALL STRUCTURAL STEEL MEMBERS EXPOSED TO WEATHER SHALL BE GALVANIZED UNLESS OTHERWISE NOTED.

S. INSTALLATION OF GROUT BELOW COLUMN AND BEAM BASE PLATES SHALL BE COMPLETED BEFORE SUPERIMPOSED LOADS ARE APPLIED TO THE PLATES.

T. ALL HEADED SHEAR STUDS SHALL BE 3/4" DIA x4" UNLESS NOTED OTHERWISE AND SHALL CONFORM TO ASTM A108.

MASONRY

A. ENGINEERED MASONRY SHALL BE FABRICATED AND CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING:

"BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530, LATEST EDITION)

"TECHNICAL NOTES ON BRICK CONSTRUCTION" BY THE BRICK INSTITUTE OF AMERICA.

B. MINIMUM COMPRESSIVE STRENGTH OF MASONRY UNITS (ASTM C90):

HOLLOW AND/OR SOLID UNITS 2600 PSI

C. MINIMUM COMPRESSIVE STRENGTH (F'c) AT 28 DAYS:

GROUT PER ASTM C109 2500 PSI

D, THE DESIGN COMPRESSIVE STRENGTH OF MASONRY (f'm) BASED ON THE COMPRESSIVE STRENGTH OF MASONRY UNITS AND MORTAR TO BE USED ARE AS FOLLOWS:

CONCRETE MASONRY	f'm = 2000 PSI
CLAY (BRICK) MASONRY	f'm = 2000 PSI

E. FOR ALL WALLS AS INDICATED ON THE STRUCTURAL DRAWINGS THE MORTAR SHALL BE TYPE S AND ONLY NORMAL WEIGHT UNITS SHALL BE USED IN BELOW GRADE APPLICATIONS.

F. MASONRY REINFORCEMENT SHALL BE AS FOLLOWS:

BOND BEAMS AND ALL VERTICAL REINFORCEMENT: DEFORMED BARS - ASTM A615 GRADE 60

BED JOINT REINFORCEMENT: PARALLEL WIRES - ASTM A82 WITH MINIMUM YIELD STRESS OF 70,0 KSI.

CONTINUOUS HORIZONTAL WIRE TIES SHALL BE PLACED SUCH THAT THE DISTANCE BETWEEN THE FACE OF THE MASONRY WALL AND THE PARALLEL WIRE IS NOT MORE THAN ONE INCH,

FOR SINGLE AND DOUBLE WYTHE BLOCK PROVIDE: (2)#9 GAGE DEFORMED WIRES,(1) AT EACH FACE SHELL, TRUSS TIED.

FOR VENEER OTHER THAN RUNNING BOND PROVIDE: (1) WIRE OF SIZE W1.7 @ 18" OC MAX

G, UNLESS OTHERWISE SHOWN OR NOTED, REINFORCING STEEL FOR MASONRY SHALL BE LAPPED 48 BAR DIAMETERS, MINIMUM.

H. UNLESS OTHERWISE INDICATED ON THE DRAWINGS BEARINGS FOR BEAMS, LINTELS, ETC., SHALL BE ON FULL-HEIGHT GROUT FILLED MASONRY UNITS.

I. ALL PRE-INSTALLED AND POST-INSTALLED ANCHORS TO BE LOCATED IN CMU WALLS SHALL BE ANCHORED INTO FULLY GROUTED CELLS WITHIN A 12" RADIUS.

J. LOCATION OF VERTICAL CONTROL JOINTS IN MASONRY WALLS ARE INDICATED ON THE ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS. JOINT SPACING SHALL NOT EXCEED 24 FEET.

K. TYPICAL VERTICAL WALL REINFORCING AND SPACING SHALL BE PROVIDE AS INDICATED ON THE DRAWINGS AND/OR SCHEDULES. PROVIDE ADDITIONAL VERTICAL REINFORCING OF #5 BARS AT EACH SIDE OF CONTROL JOINTS, CORNERS, INTERSECTIONS, EDGE OF OPENINGS, AND ENDS OF WALLS. GROUT SOLID ALL CELLS WITH REINFORCING AND BOND BEAMS.

L. UNLESS OTHERWISE DETAILED ON DRAWINGS, PROVIDE MINIMUM 8" BEARING FOR BEAMS OR LINTELS WITH SPANS 4'-0" OR LARGER AND 6" BEARING ON SPANS LESS THAN 4'-0".

M. UNLESS OTHERWISE NOTED, ALL BOND BEAMS SHALL HAVE (1) #5 BAR CONTINUOUS.

N. ALL STEEL LINTELS EXPOSED TO WEATHER SHALL BE FULLY GALVANIZED UNLESS OTHERWISE SHOWN OR NOTED.

METAL DECK

A. ALL METAL DECK SHALL BE DETAILED, FABRICATED AND INSTALLED IN ACCORDANCE WITH THE STEEL DECK INSTITUTE SPECIFICATIONS.

B. ALL METAL DECK SHALL BE CONTINUOUS OVER THREE OR MORE SUPPORTS UNLESS INDICATED OTHERWISE OR APPROVED BY THE ENGINEER.

C. UNLESS OTHERWISE NOTED, THE METAL DECK SHALL BE AS FOLLOWS:
1. FLOOR DECK 2" DEEP, 20 GAUGE, COMPOSITE, GALVANIZED - ASTM A653-G60.
I_p = 0.409, I_n = 0.406, S_p = 0.341, S_n = 0.346
Thickness = 0.0358, Fy = 50 ksi

D. FASTEN DECK TO SUPPORTING STEEL IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. STEEL DECKS SHALL BE COMPLETE WITH SUMP PANS, METAL CLOSURE STRIPS, POUR STOPS AND ALL REQUIRED STEEL AND LIGHT GAUGE METAL ACCESSORIES.

E. STEEL DECK ACTING AS A CONCRETE FORM SHALL BE TIGHT TO PREVENT LEAKAGE OF CONCRETE, PRODUCE TRUE LINES, ACCURATE ELEVATIONS AND CORRECT ALIGNMENTS.

F. UNLESS NOTED OTHERWISE, THE ANCHORAGE OF METAL DECK SHALL BE AS FOLLOWS:

1. SUPPORT FASTENERS	3/4" DIA. PUDDLE WELDS ON 36/4 PATTERN
2. END FASTENERS	3/4" DIA. PUDDLE WELDS ON 36/4 PATTERN
3. SIDELAP FASTENERS	#10 TEK SCREWS 6 PER SPAN

G. UNLESS NOTED OTHERWISE, ALL DECK SHALL BE GALVANIZED.

H. NO MECHANICAL DUCTWORK, PLUMBING OR SPRINKLER PIPING GREATER THAN 2" DIAMETER SHALL BE SUSPENDED FROM THE METAL FLOOR DECK.

REBAR SPLICE AND HOOK SCHEDULE

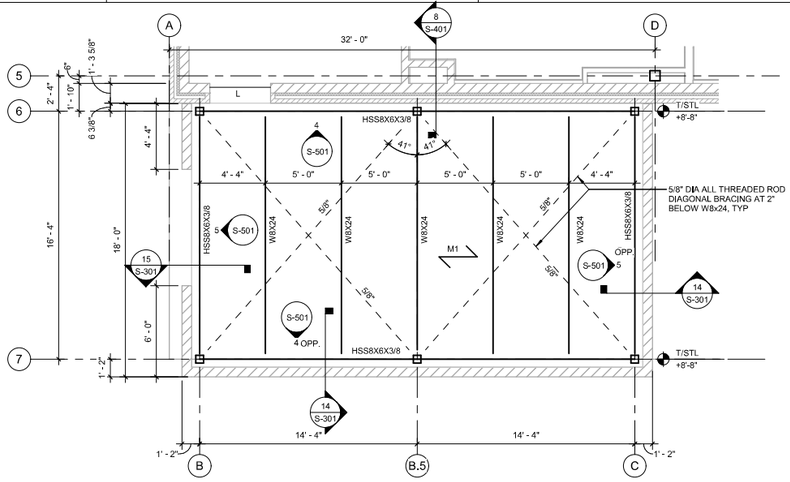
REBAR SPLICE AND HOOK DIMENSIONS IN REINF. CONCRETE, F'c=3,000 PSI

ASTM BAR SIZE	LD	CLASS B LAP	TOP BAR LAP	LDH
#3	12"	13"	15"	9"
#4	14"	18"	20"	11"
#5	17"	22"	25"	14"
#6	20"	26"	29"	17"
#7	32"	41"	47"	20"
#8	42"	54"	61"	22"

REBAR SPLICE AND HOOK DIMENSIONS IN REINF. CONCRETE, F'c=4,000

ASTM BAR SIZE	LD	CLASS B LAP	TOP BAR LAP	LDH
#3	12"	12"	15"	8"
#4	12"	15"	20"	10"
#5	15"	19"	25"	12"
#6	18"	23"	29"	15"
#7	28"	36"	47"	17"
#8	36"	47"	61"	19"

NO

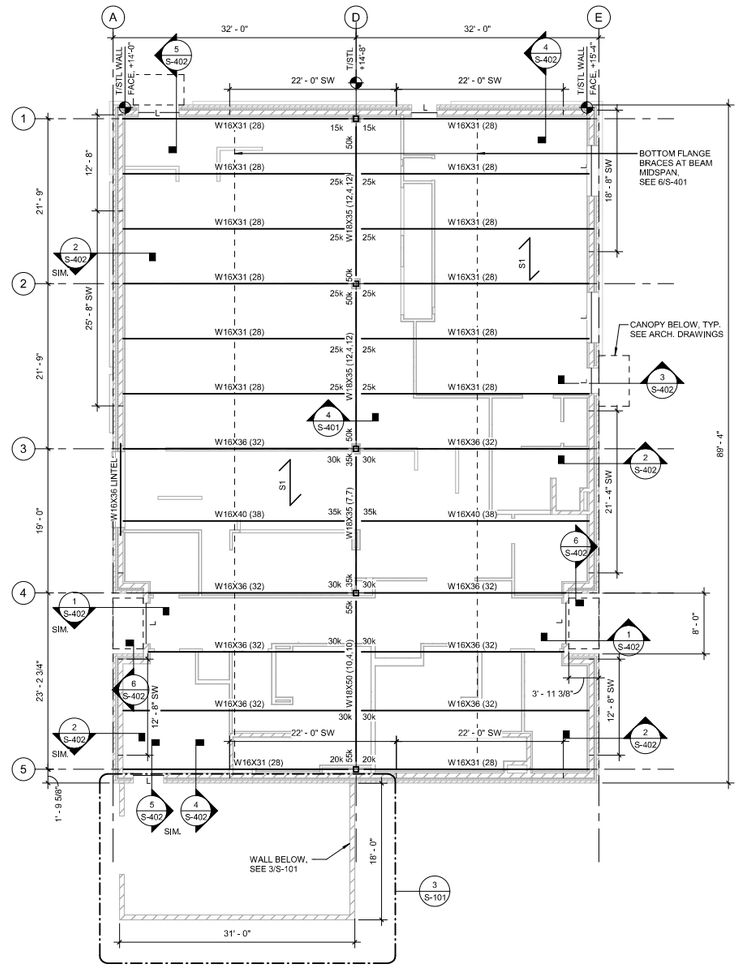


3 SCREEN WALL FRAMING PLAN

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

SCREEN WALL PLAN NOTES

1. FOR GENERAL NOTES AND ABBREVIATIONS SEE DRAWING S-001.
2. FOR TYPICAL DETAILS SEE DRAWING S-401.
3. FOR COLUMN SCHEDULE SEE DRAWING S-501.
4. TOP OF STEEL SHALL BE AT 8'-8" ABOVE REFERENCE ELEVATION UNO.
5. "M1" INDICATES 9 GA GALV STEEL EXPANDED METAL MESH WELDED AT 7" O.C. WITH 1" LONG WELDS ALONG ENTIRE PERIMETER.



2 ROOF FRAMING PLAN

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

PLAN NOTES

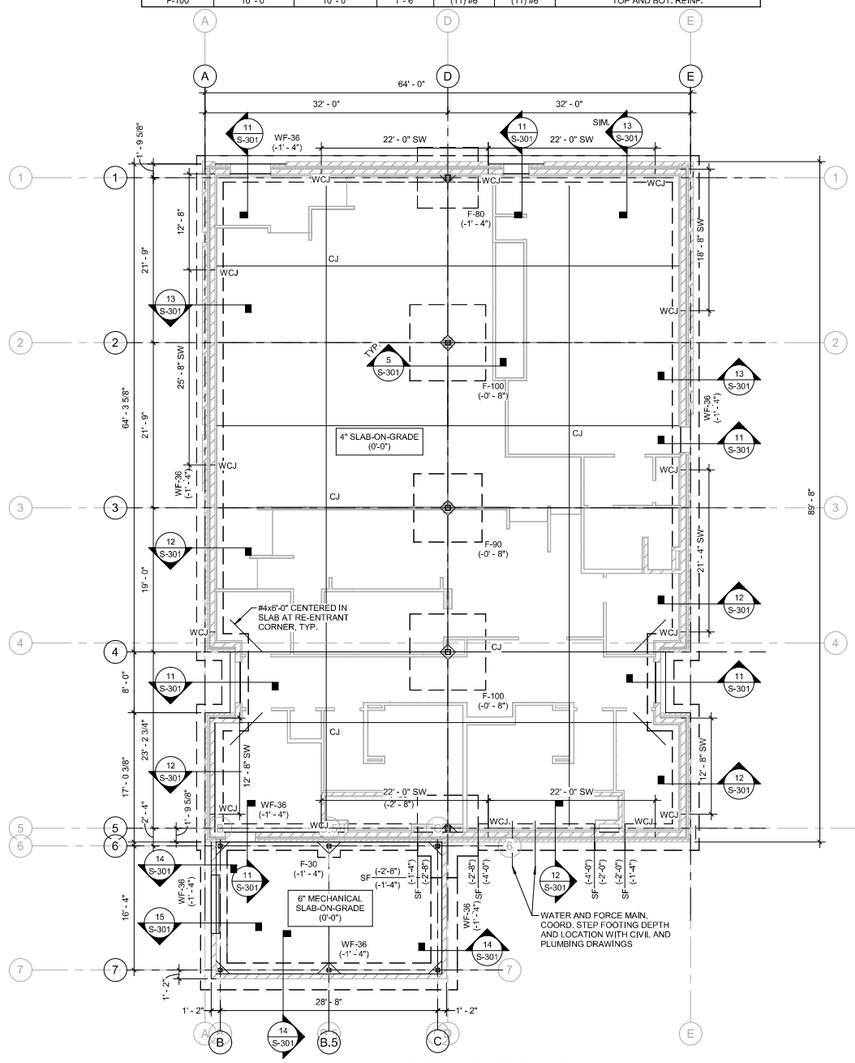
1. FOR GENERAL NOTES AND ABBREVIATIONS SEE DRAWING S-001.
2. FOR TYPICAL FRAMING DETAILS SEE DRAWING S-401.
3. FOR COLUMN BASE PLATE AND ANCHOR BOLT SCHEDULES, SEE DRAWING S-501.
5. SEE PLAN FOR TOP OF STEEL ELEVATION ABOVE REFERENCE ELEVATION.
6. "S1" INDICATES 3 1/4" LIGHTWEIGHT CONCRETE WITH 6X6 W2.1XW2.1 WWF ON 2"-20GA. COMPOSITE GALVANIZED METAL DECK (TOTAL THICKNESS 5-1/4"). GALVANIZED (G90) TOP AND BOTTOM. SEE GENERAL NOTES FOR DECK ANCHORAGE. T/STEEL = B/DECK, TOP OF STEEL 5 1/4" BELOW DECK.
8. ALL DECK SHALL HAVE A MINIMUM 3-SPAN CONDITION
10. SHEAR CONNECTORS SHALL BE 3/4" DIA. X 4" HEADED STUDS. QUANTITY PER BEAM INDICATED THUS: [ ] IF QUANTITY NOT INDICATED PROVIDE AT 1'-0" O.C. (MAX)
11. SLOPE BEAMS UNIFORMLY BETWEEN ELEVATIONS AS REQUIRED.
12. BEAMS SHALL BE LOCATED AS TO CREATE UNIFORM SPACING BETWEEN COLUMN CENTERLINES UNLESS DIMENSIONED NOTED.
13. * INDICATES DIMENSION TO BE COORDINATE WITH ARCHITECTURAL OR MECHANICAL DRAWINGS, OR EXISTING CONSTRUCTION PRIOR TO ANY FABRICATION.
14. "L" INDICATES LINTELS DEPICTED ON PLAN. SEE S-410 FOR CMU AND STEEL LINTEL DETAILS AND SCHEDULES.
15. SEE 12/S-410 FOR CMU BEARING PLATE SCHEDULE
16. ALL REACTIONS SHOWN ON PLAN ARE FACTORED LOADS. MINIMUM REACTION 15K (FACTORED LOAD) U.N.O. ON PLAN.
17. ALL STEEL SHALL BE PRIME PAINTED GRAY.
18. SEE 9/S-401 FOR ROOF SCUPPER OPENING DETAIL. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
19. SEE 13/S-410 FOR CMU WALL PENETRATION PROTECTION DETAIL. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS.

WALL FOOTING SCHEDULE

MARK	WIDTH	FOUNDATION THICKNESS	REINFORCING LONG.	REINFORCING TRANS.	DOWELS	REMARKS
WF-36	3' - 6"	1' - 2"	(4) #5	#5 @ 12"	MATCH WALL	TOP AND BOT. REINF.

SPREAD FOOTING SCHEDULE

MARK	WIDTH	LENGTH	THICKNESS	REINFORCING LONG.	REINFORCING TRANS.	REMARKS
F-30	3' - 0"	3' - 0"	1' - 2"	(4) #5	(4) #5	TOP AND BOT. REINF.
F-80	8' - 0"	8' - 0"	1' - 2"	(9) #5	(9) #5	TOP AND BOT. REINF.
F-90	9' - 0"	9' - 0"	1' - 6"	(10) #6	(10) #6	TOP AND BOT. REINF.
F-100	10' - 0"	10' - 0"	1' - 6"	(11) #6	(11) #6	TOP AND BOT. REINF.



1 FOUNDATION PLAN

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

PLAN NOTES

1. FOR GENERAL NOTES AND ABBREVIATIONS. SEE DRAWING S-001.
2. FOR TYPICAL FOUNDATION DETAILS, SEE DRAWING S-301.
3. FOR COLUMN BASE PLATE AND ANCHOR BOLT SCHEDULES, SEE DRAWING S-501.
4. REFERENCE ELEVATION SHALL BE EL 0'-0" = DATUM EL 44.50'. SEE CIVIL DRAWINGS.
5. 4" CONCRETE SLAB ON GRADE WITH 6X6 W4.0 X W4.0 WWF OVER 15 MIL VAPOR BARRIER & 4" COMPACTED FILL. T/SLAB = EL 0'-0" UNLESS OTHERWISE NOTED.
6. 6" CONCRETE SLAB ON GRADE WITH #3 REINFORCING BARS AT 12" O.C. CENTERED IN SLAB. T/SLAB = EL 0'-0" UNLESS OTHERWISE NOTED. "WF-XX" INDICATES WALL FOOTING AND "F-XX" INDICATES SPREAD FOOTING. SEE SCHEDULES ON THIS SHEET.
7. TOP OF FOOTING SHALL BE 1'-4" BELOW REFERENCE ELEVATION UNLESS OTHERWISE NOTED THUS: (± X'-X").
8. SEE PLUMBING AND ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES.
9. APPROXIMATE LOCATIONS OF UNDERGROUND UTILITIES, GENERAL CONTRACTOR TO COORDINATE FOOTING DEPTHS, SLEEVE LOCATIONS, AND QUANTITIES WITH PLUMBING, MECHANICAL, CIVIL, AND ARCHITECTURAL DRAWINGS. SLEEVE LOCATIONS MUST BE PLACED IN THE WALL PROVIDE FRAMING AROUND OPENING PER STANDARD DETAILS.
10. "CJ" INDICATES SLAB-ON-GRADE CONTRACTION JOINT. SEE SHEET S-301.
11. "WCJ" INDICATES MASONRY WALL CONTROL JOINT. SEE SHEET S-410.
12. "SF" INDICATES STEPPED FOOTING LOCATION. SEE DETAIL 4/S-301.
13. SEE S-410 FOR TYPICAL MASONRY DETAILS.
14. "SW" INDICATES MASONRY SHEAR WALL. SEE S-410 FOR DETAILS.
15. SEE 9/S-301 FOR GENERATOR PAD DETAIL. SEE CIVIL DRAWINGS FOR GENERATOR PAD LOCATIONS.
16. SEE 10/S-301 FOR HOUSEKEEPING PAD DETAIL. SEE MECHANICAL DRAWINGS FOR HOUSEKEEPING PAD LOCATIONS.

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704.509.9918

GULF COAST ELECTRICAL COMPANY

GCEC HURRICANE SAFE ROOM

722 WEST HIGHWAY 22
WEWAHITCHKA, FL 32465
100% DESIGN

SEAL

ANTHONY D. MITCHELL LICENSE No 81755 STATE OF FLORIDA PROFESSIONAL ENGINEER

KEY PLAN

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SCALE

REVISIONS

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CHECKED BY	JAW
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TITLE

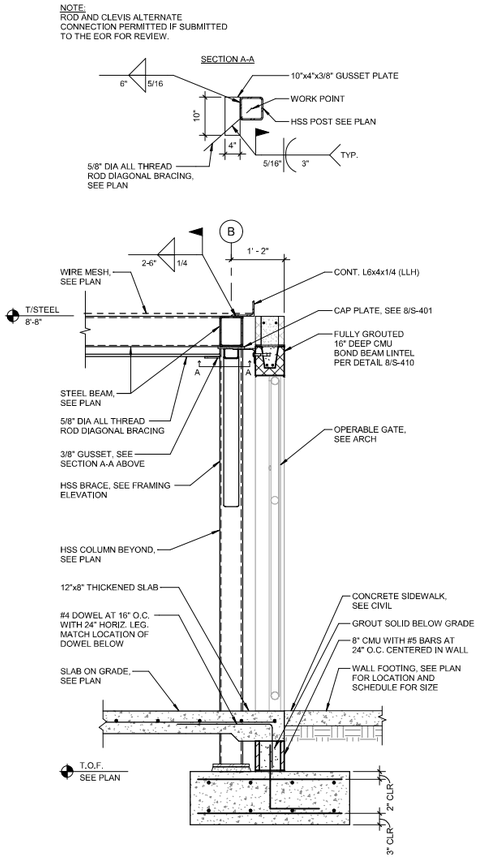
STRUCTURAL FOUNDATION AND ROOF FRAMING PLAN

PROJECT NO. 50150343

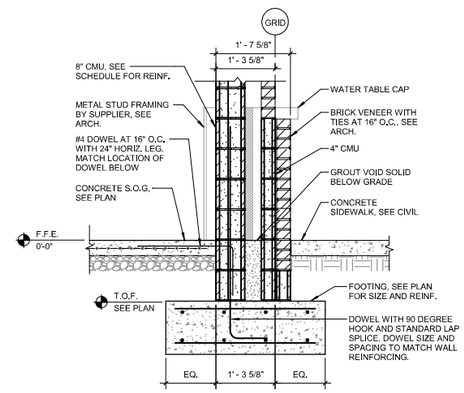
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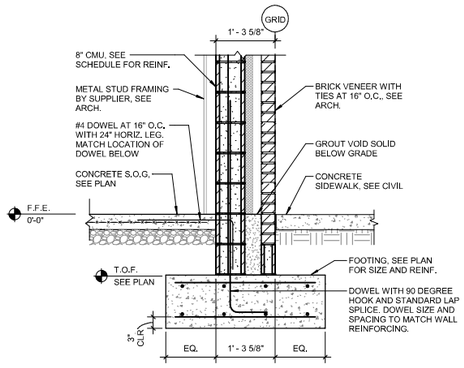
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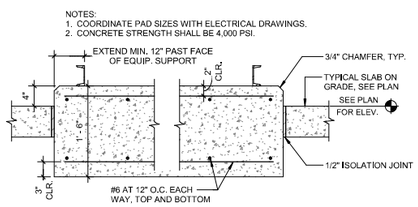
15 SCREEN WALL SECTION
Scale: 3/4" = 1'-0"



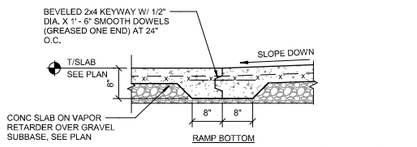
13 FOUNDATION SECTION
Scale: 3/4" = 1'-0"



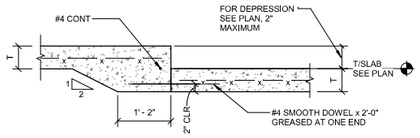
12 FOUNDATION SECTION
Scale: 3/4" = 1'-0"



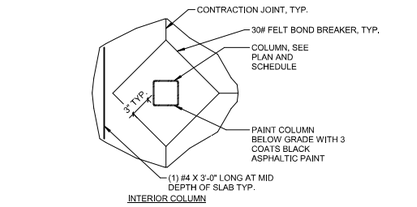
9 GENERATOR PAD
Scale: 1" = 1'-0"



8 STANDARD RAMP DETAILS
Scale: 3/4" = 1'-0"

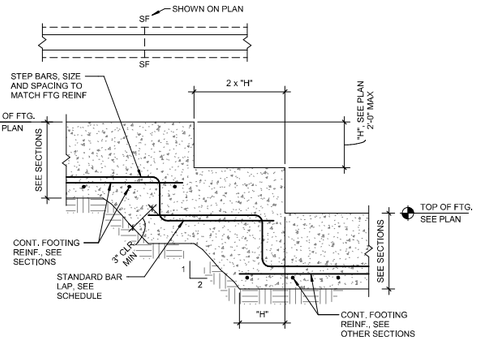


7 DEPRESSED SLAB
Scale: 3/4" = 1'-0"

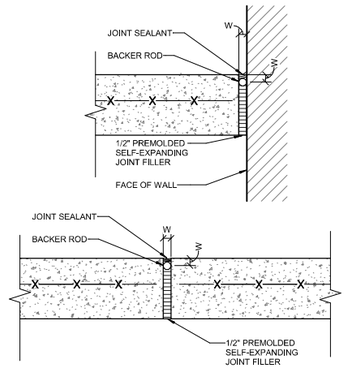


NOTE:
FOR EXPOSED CONDITION USE FILLER AND SEALANT AT JOINT

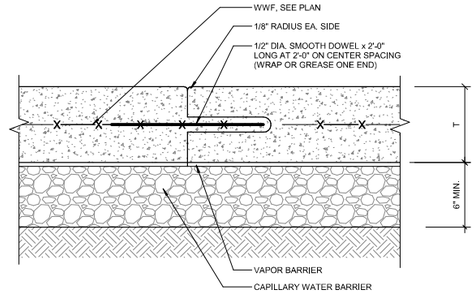
6 TYPICAL COLUMN ISOLATION JOINT
Scale: 1/2" = 1'-0"



4 TYPICAL STEP FOOTING
Scale: 3/4" = 1'-0"

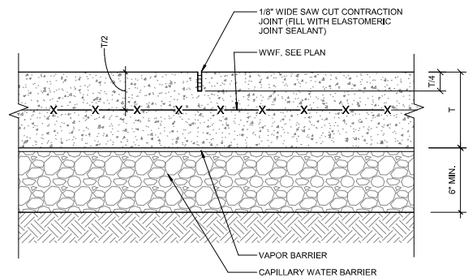


3 SLAB EXPANSION JOINT
Scale: 3" = 1'-0"



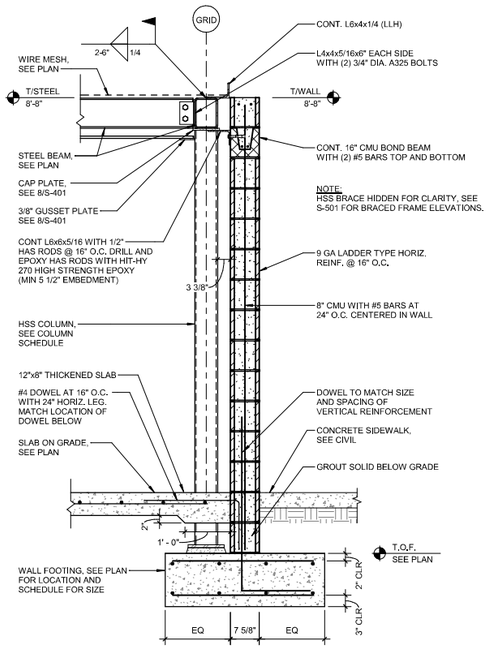
NOTE:
1. SEE FOUNDATION PLAN FOR SLAB THICKNESS, WELDED WIRE REINFORCING, VAPOR BARRIER AND CAPILLARY WATER BARRIER.
2. THIS DETAIL APPLIES ONLY AT THE INTERSECTION OF TWO SEPARATE FLOOR SLAB POURS (COLD JOINT).
3. DISCONTINUE WELDED WIRE FABRIC REINFORCING AT JOINT.

2 SLAB-ON-GRADE CONSTRUCTION JOINT
Scale: 3" = 1'-0"

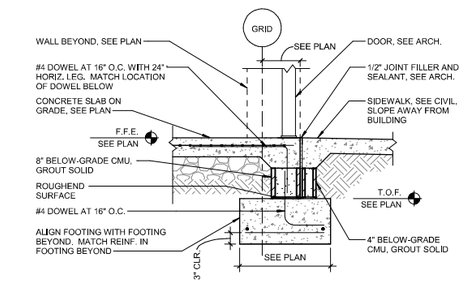


NOTE:
SEE FOUNDATION PLAN FOR SLAB THICKNESS, WELDED WIRE REINFORCING, VAPOR BARRIER AND CAPILLARY WATER BARRIER

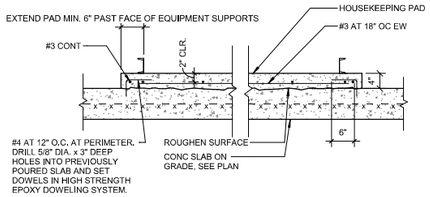
1 SLAB-ON-GRADE CONTRACTION JOINT
Scale: 3" = 1'-0"



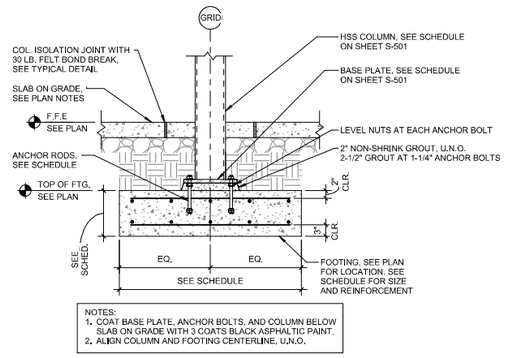
14 SCREEN WALL SECTION
Scale: 3/4" = 1'-0"



11 EXTERIOR WALL SECTION AT THRESHOLD
Scale: 3/4" = 1'-0"



10 HOUSEKEEPING PAD
Scale: 3/4" = 1'-0"



NOTES:
1. COAT BASE PLATE, ANCHOR BOLTS, AND COLUMN BELOW SLAB ON GRADE WITH 3 COATS BLACK ASPHALTIC PAINT.
2. ALIGN COLUMN AND FOOTING CENTERLINE, U.N.O.

5 TYPICAL SPREAD FOOTING
Scale: 3/4" = 1'-0"

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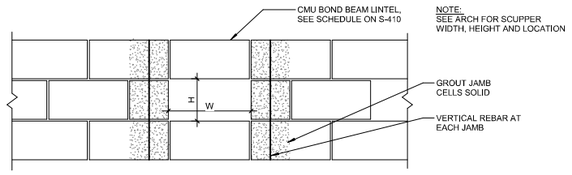
STRUCTURAL FOUNDATION DETAILS

PROJECT NO. 50150343

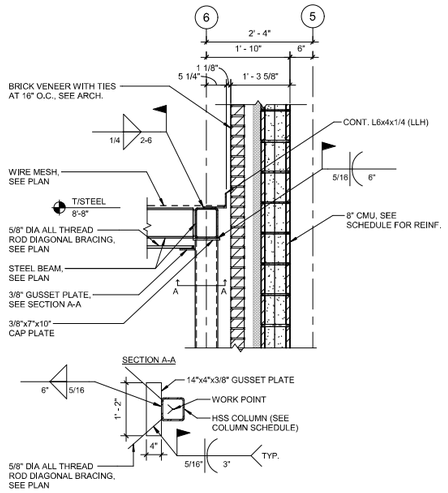
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SHEET NO.

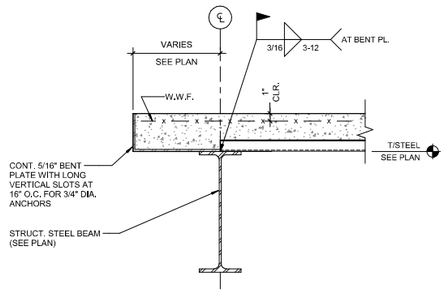
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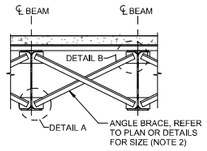
9 ROOF SCUPPER OPENING DETAIL
Scale: 1" = 1'-0"



8 SCREEN WALL SECTION
Scale: 3/4" = 1'-0"



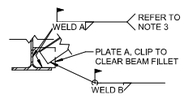
7 TYP. SLAB EDGE - DECK PERPENDICULAR TO BEAM
Scale: 1 1/2" = 1'-0"



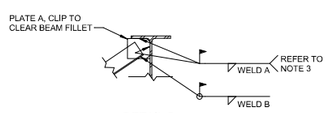
BRACE CONNECTION TO BEAM TOP FLANGE

CONNECTION SCHEDULE			
BRACE SIZE	PLATES A & B	WELDS A & B	CONNECTION ANGLE
L2x2x1/4	4x4x1/4	3/16	L3x3x1/4
L3x3x1/4	4x4x1/4	3/16	L4x4x1/4
L4x4x1/4	5x5x1/4	3/16	N/A
L5x5x1/4	6x6x3/8	1/4	N/A

NOTES:
1. REFER TO PLAN FOR LOCATIONS OF ANGLE BRACES.
2. IF NOT SHOWN ON PLAN OR DETAILS, BRACE SIZE SHALL BE L3x3x1/4.
3. FIELD WELDING OF CONNECTION PLATES SHALL BE AT FABRICATOR'S OPTION.

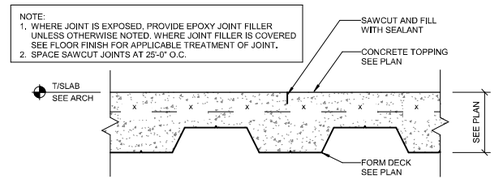


DETAIL A

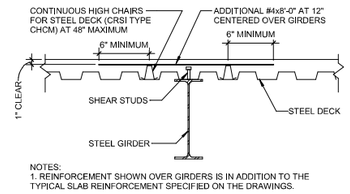


DETAIL B

6 TYPICAL BEAM BOTTOM FLANGE BRACE AT COMPOSITE DECK
Scale: 3/4" = 1'-0"

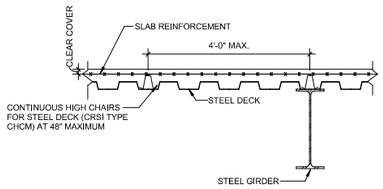


5 ELEVATED SLAB CONTRACTION JOINT DETAIL
Scale: 3" = 1'-0"

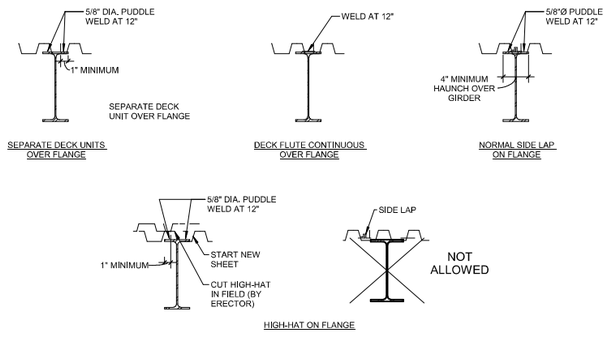


NOTES:
1. REINFORCEMENT SHOWN OVER GIRDERS IS IN ADDITION TO THE TYPICAL SLAB REINFORCEMENT SPECIFIED ON THE DRAWINGS.

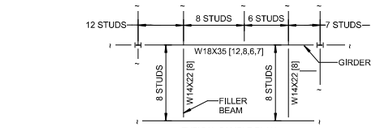
4 ADDITIONAL REINFORCEMENT AT INTERIOR GIRDERS
Scale: 1" = 1'-0"



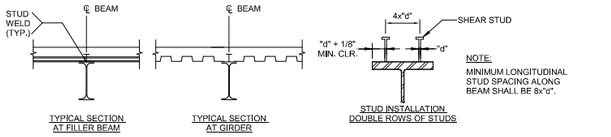
3 TYP REINF PLACEMENT FOR COMPOSITE SLABS
Scale: 1" = 1'-0"



2 TYPICAL COMPOSITE STEEL DECK DETAILS AT GIRDER
Scale: 1" = 1'-0"



TYPICAL SAMPLE PLAN



NOTE:
MINIMUM LONGITUDINAL STUD SPACING ALONG BEAM SHALL BE 8x"d".

NOTES:
1. SHEAR CONNECTORS 3/4" DIA. X 4" LONG. SEE PLAN FOR NUMBER OF SHEAR CONNECTORS.
2. DISTRIBUTE AND CONNECT SHEAR CONNECTORS TO THE TOP FLANGE OF STEEL BEAMS AS SHOWN IN FRAMING PLAN. STUDS SHALL BE EQUALLY SPACED ALONG STEEL MEMBERS OR BETWEEN FILLER BEAM CONNECTION POINTS IN THE CASE OF GIRDERS AS SHOWN BY THE NOTATION [_____] DEPICTED ABOVE.
3. WHERE NUMBER OF STUDS SPECIFIED CANNOT BE INSTALLED IN A SINGLE LONGITUDINAL ROW WITHOUT VIOLATING MINIMUM SPACING REQUIREMENT STUDS SHALL BE INSTALLED IN A DOUBLE ROW AS INDICATED ABOVE.

1 TYPICAL COMPOSITE STEEL BEAM/SHEAR STUD DETAIL
Scale: 12" = 1'-0"

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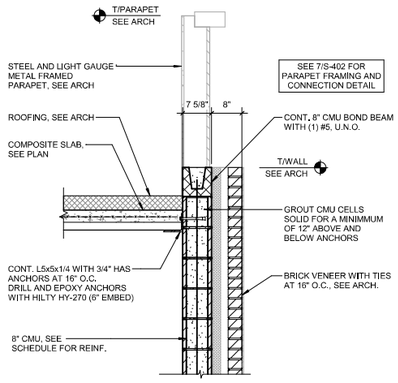
STRUCTURAL FRAMING DETAILS

PROJECT NO. 50150343

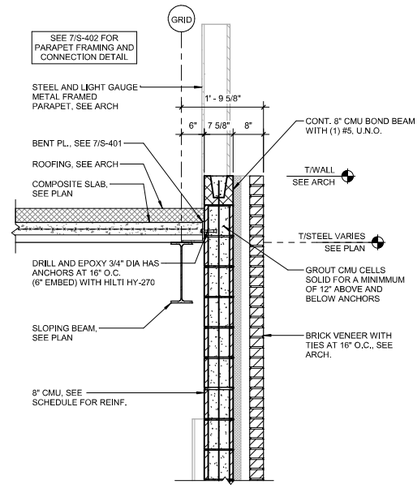
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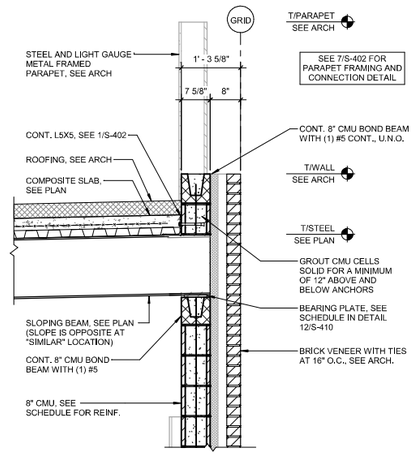
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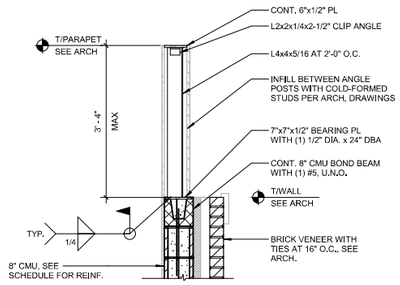
6 ROOF SECTION
Scale: 3/4" = 1'-0"



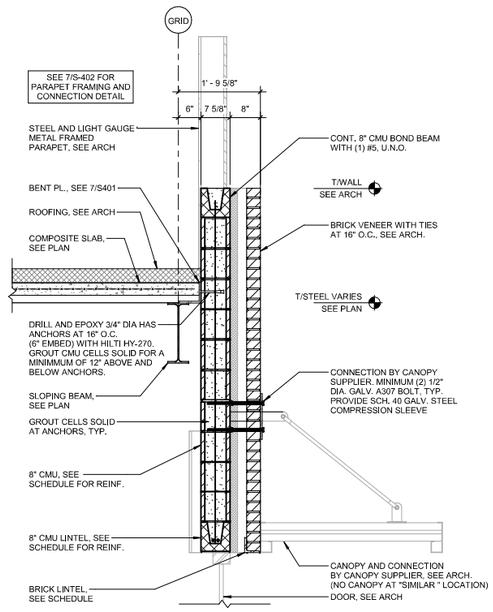
4 ROOF SECTION
Scale: 3/4" = 1'-0"



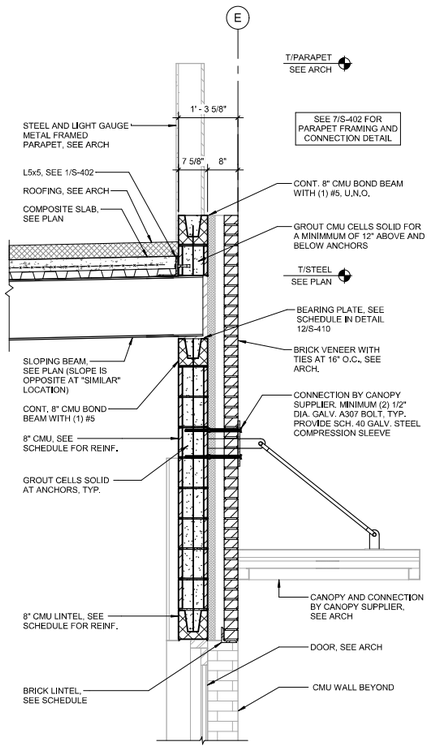
2 ROOF SECTION
Scale: 3/4" = 1'-0"



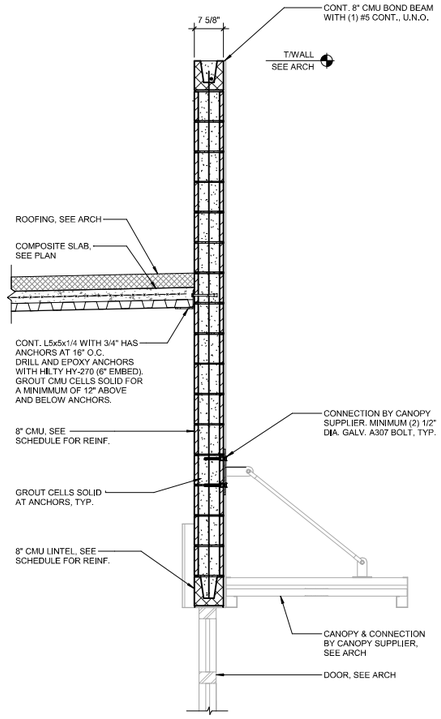
7 PARAPET SECTION
Scale: 3/4" = 1'-0"



5 ROOF SECTION
Scale: 3/4" = 1'-0"



3 ROOF SECTION
Scale: 3/4" = 1'-0"



1 ROOF SECTION
Scale: 3/4" = 1'-0"

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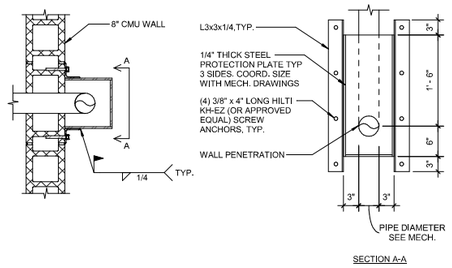
TITLE

STRUCTURAL
FRAMING
DETAILS

PROJECT NO. 50150343

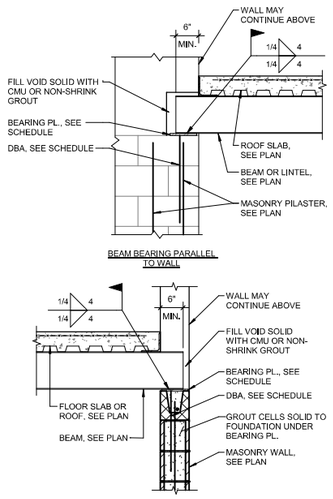
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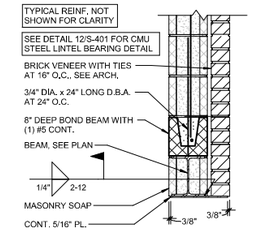


13 CMU WALL PENETRATION PROTECTION DETAIL
Scale: 1" = 1'-0"

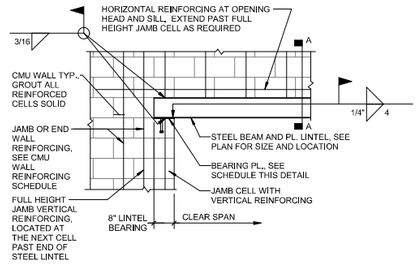
BEARING PL. SCHEDULE				
MARK	THICKNESS	WIDTH	LENGTH	# OF 1/2" DIA. x 24" DBA
	1/2"	7"	7"	2
AT BEAMS NOT SUPPORTING OTHER BEAMS, AND LINTELS BEARING ON 8" WALLS	1/2"	7"	7"	1



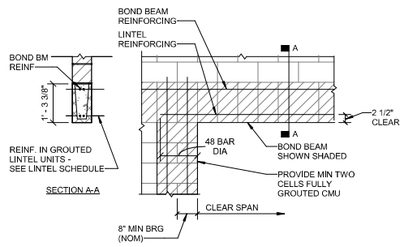
12 BEAM BEARING PL. SCHEDULE
Scale: 3/4" = 1'-0"



11 CMU STEEL LINTEL SECTION
Scale: 1" = 1'-0"



10 CMU STEEL LINTEL DETAIL
Scale: 1/2" = 1'-0"



9 16" CMU LINTEL AT BOND BEAM
Scale: 1/2" = 1'-0"

LINTEL SCHEDULE

UNLESS OTHERWISE NOTED ON THE DRAWINGS, USE THE FOLLOWING SCHEDULE FOR LINTELS AND HEADERS IN NEW MASONRY

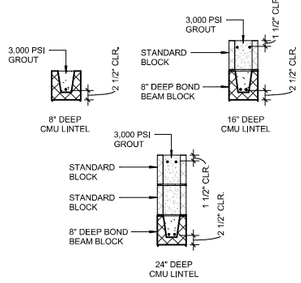
1. OPENINGS FOR ROUND DUCTS, PIPING, AND ELEC. CONDUIT ARE NOT SHOWN. SLEEVE OPENINGS BETWEEN 4 AND 12 INCHES IN DIAMETER WITH SCHEDULE 40 STEEL PIPE PER THE COORDINATION SECTION OF THE GENERAL NOTES.
2. MINIMUM BEARING FOR MASONRY LINTELS IS 8". FILL CMU CELLS BELOW BEARING WITH 3,000 PSI GROUT AND REINFORCE PER CMU WALL SCHEDULE.
3. MINIMUM BEARING FOR SINGLE STEEL ANGLE LINTELS IS 8".
4. STEEL ANGLE LOOSE LINTELS IN EXTERIOR MASONRY WALLS SHALL BE HOT-DIPPED GALVANIZED.

4" BRICK LOOSE LINTELS

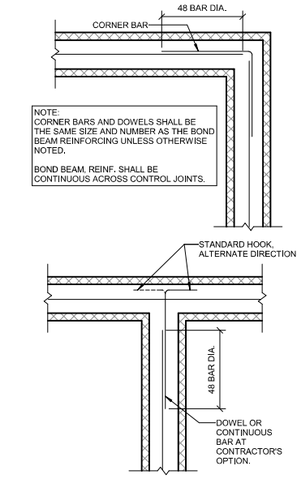
1. FOR CLEAR SPANS LESS THAN 4'-0", USE L4x4x5/16 STEEL ANGLE.
2. FOR CLEAR SPANS GREATER THAN 4'-0" AND LESS THAN OR EQUAL TO 6'-8", USE L6x4x3/8 (LLV) STEEL ANGLE.

8" CMU WALLS

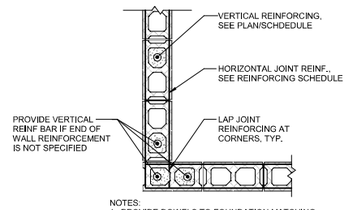
1. FOR CLEAR SPANS LESS THAN 1'-4", PROVIDE AN 8" DEEP BOND BEAM LINTEL WITH (1) #5 BAR BOTTOM.
2. FOR CLEAR SPANS GREATER THAN 1'-4" AND LESS THAN 4'-0", PROVIDE A 16" DEEP BOND BEAM LINTEL WITH (2) #5 BAR TOP AND BOTTOM.
3. FOR CLEAR SPANS GREATER THAN 4'-0" AND LESS THAN 6'-8", PROVIDE A 24" DEEP BOND BEAM LINTEL WITH (2) #5 BAR TOP AND BOTTOM.
4. FOR CLEAR SPANS GREATER THAN 6'-8" SEE 10 AND 11 S-410 FOR STEEL LINTELS.



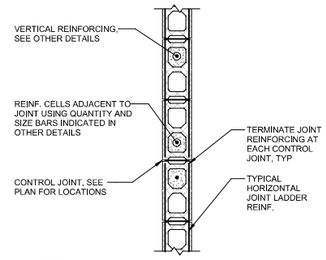
8 LINTEL SCHEDULE
Scale: 3/4" = 1'-0"



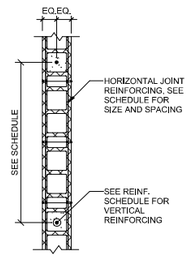
7 BOND BEAM CORNER REINF.
Scale: 3/4" = 1'-0"



6 TYPICAL CMU CORNER
Scale: 3/4" = 1'-0"



5 TYPICAL CMU CONTROL JOINT
Scale: 3/4" = 1'-0"



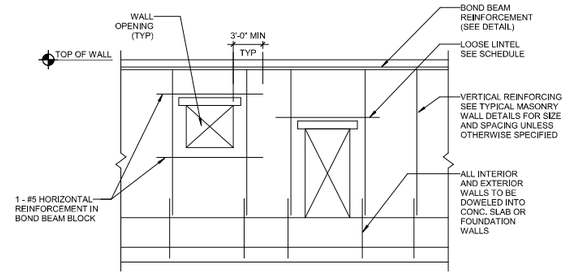
4 TYPICAL CMU WALL REINFORCING
Scale: 3/4" = 1'-0"

CMU WALL REINFORCING SCHEDULE				
	WALL HEIGHT	VERTICAL REINFORCING 8" CMU		HORIZONTAL REINFORCING
		VERTICAL REINF.	END WALL REINF.	
EXTERIOR, BEARING AND SHEARWALL	UP TO 14'-0"	#5 AT 16" OC	(1) #5 PER CELL IN END (2) CELLS OF WALL, EACH END	9 GA LADDER TYPE AT 16" OC

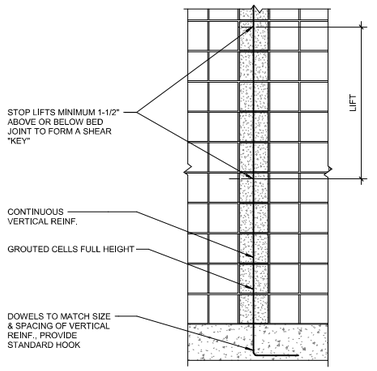
NOTES:
1. PROVIDE FOUNDATION DOWELS FOR ALL VERTICAL REINFORCING BARS, SIZE AND LOCATION OF DOWELS TO MATCH VERTICAL REINFORCING.
2. PROVIDE (1) #5 BARS IN BOND BEAM AT EACH FLOOR LEVEL AT TOPS OF WALLS AND AS INDICATED IN SECTIONS AND SCHEDULES.
3. ALL MASONRY TO BE CONSTRUCTED IN RUNNING BOND BEAM PATTERN WITH INTERLOCKING CORNERS.
4. CENTER VERTICAL REINF. IN CELLS U.N.O.
5. PROVIDE END WALL REINF. AT ENDS OF WALL AND END OF SHEAR WALLS U.N.O.
6. GROUT ALL CELLS SOLID.

VERTICAL SPANNING WALLS:
1. ALL VERTICAL SPANNING WALLS ARE TO BE ANCHORED TO STEEL STRUCTURE PER OTHER DETAILS.
2. ALL INTERIOR VERTICALLY SPANNING WALLS SHALL BE 8" CMU U.N.O.

3 CMU WALL REINFORCING SCHEDULE
Scale: 3/4" = 1'-0"



2 TYPICAL MASONRY WALL REINF.
Scale: 1" = 1'-0"



GENERAL GROUTING REQUIREMENTS:
1. GROUT ALL REINFORCED CELLS SOLID.
2. REINFORCING BARS SHALL BE IN PROPER POSITION PRIOR TO PLACEMENT OF GROUT.
3. PLACE MORTAR ON CROSS WEBS ADJACENT TO ALL GROUTED CELLS.
4. REMOVE ALL MORTART THAT PROJECTS MORE THAN 1/2" INTO CELLS THAT ARE TO BE GROUTED.
5. GROUTED CELLS SHALL BE MECHANICALLY VIBRATED DURING PLACEMENT OF GROUT, TEN MINUTES AFTER PLACING GROUT, EACH GROUTED CELL SHALL BE RECONSOLIDATED WITH A VIBRATOR.
6. EITHER LOW LIFT GROUTING OR HIGH LIFT GROUTING PROCEDURES MAY BE UTILIZED, AT THE CONTRACTORS OPTION.

LOW LIFT GROUTING PROCEDURE:
1. LAY WALL TO MAXIMUM OF 5'-0".
2. CLEAN MORTAR AND OTHER DEBRIS FROM CELLS TO BE GROUTED.
3. PLACE REINFORCING BARS IN PROPER POSITION.
4. PLACE GROUT UP TO LIFT HEIGHT AND VIBRATE.

HIGH LIFT GROUTING PROCEDURE:
1. CLEANOUT OPENINGS SHALL BE PROVIDED IN THE FACE SHELLS OF THE BOTTOM COURSE OF ALL CELLS TO BE GROUTED. OPENINGS SHALL BE LARGE ENOUGH TO ALLOW REMOVAL OF DEBRIS.
2. LAY WALL TO MAXIMUM POUR HEIGHT AND CLEAN DEBRIS FROM OPENINGS. PLACE REINFORCING BARS IN PROPER POSITION.
3. PLACE GROUT TO THE FOLLOWING HEIGHTS: MAXIMUM LIFT HEIGHT IS 5'-0"; MAXIMUM POUR HEIGHT IS 12'-0" UNLESS EXPRESSLY COORDINATED WITH THE STRUCTURAL ENGINEER.
4. AFTER INITIAL LIFT IS POURED AND VIBRATED, WAIT A MINIMUM OF 30 MINUTES AND A MAXIMUM OF 60 MINUTES BEFORE PLACING SUCCESSIVE LIFT. CONTINUE THIS PROCEDURE FOR FULL POUR HEIGHT.

1 TYPICAL MASONRY GROUT REQUIREMENTS
Scale: 3/4" = 1'-0"

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GULF COAST ELECTRICAL COMPANY

GCEC HURRICANE SAFE ROOM

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WEWAHITCHKA, FL 32465
100% DESIGN

SEAL
ANTHONY D. MIRA LICENSE No 81755 STATE OF FLORIDA PROFESSIONAL ENGINEER

KEY PLAN

FOR REVIEW ONLY

SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	02.06.24

TITLE

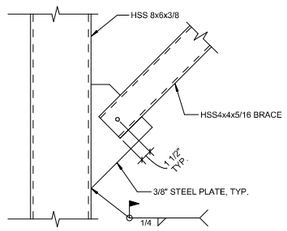
MASONRY SCHEDULES, SECTIONS AND DETAILS

PROJECT NO.	50150343

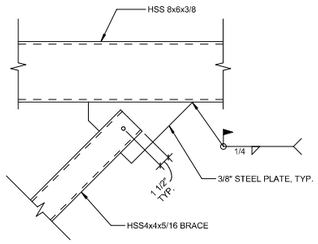
S-410

SHEET NO.

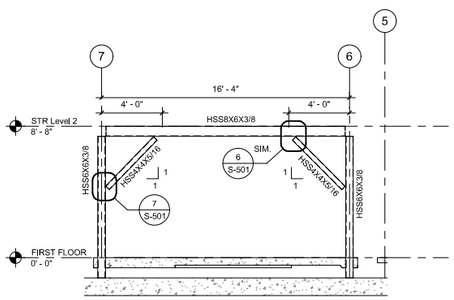
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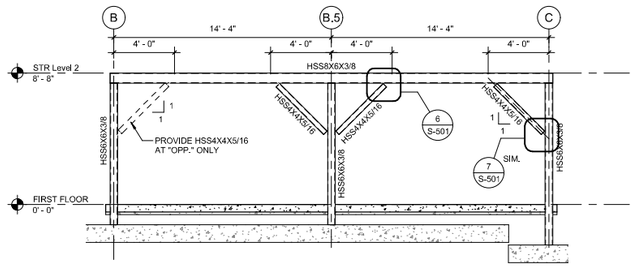
7 BRACE CONNECTION DETAIL
Scale: 1 1/2" = 1'-0"



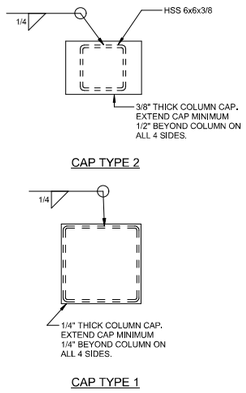
6 BRACE CONNECTION DETAIL
Scale: 1 1/2" = 1'-0"



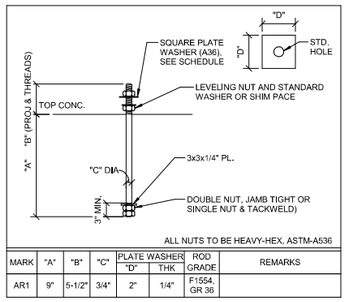
5 BRACED FRAME ELEVATION
Scale: 1/4" = 1'-0"



4 BRACED FRAME ELEVATION
Scale: 1/4" = 1'-0"

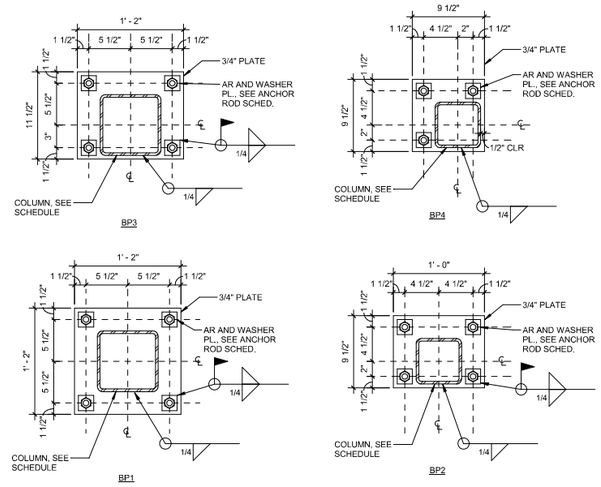


3 COLUMN CAP DETAIL
Scale: 1 1/2" = 1'-0"



MARK	"A"	"B"	"C"	PLATE WASHER "D"	PLATE WASHER THK	ROD GRADE	REMARKS
AR1	9"	5-1/2"	3/4"	2"	1/4"	F1554, GR 36	

2 ANCHOR ROD SCHEDULE
Scale: 3/4" = 1'-0"



NOTE: ROTATE ALL BASE PLATES TO AVOID ADJACENT CMU WALLS.

1 BASE PLATE DETAIL
Scale: 1 1/2" = 1'-0"

BASE PLATE, ANCHOR BOLT AND CAP PLATESCHEDULE

COLUMN LOCATION	Type	ANCHOR BOLTS	BASE PLATE TYPE	CAP PLATE
D-1	HSS8X8X3/8	AR1	BP3	CP1
D-3	HSS8X8X3/8	AR1	BP1	CP1
D-2	HSS8X8X3/8	AR1	BP1	CP1
D-4	HSS8X8X3/8	AR1	BP1	CP1
D-5	HSS8X8X3/8	AR1	BP3	CP1
B-6	HSS6X6X3/8	AR1	BP4	CP2
B-7	HSS6X6X3/8	AR1	BP4	CP2
C-7	HSS6X6X3/8	AR1	BP4	CP2
C-6	HSS6X6X3/8	AR1	BP4	CP2
B.5-7	HSS6X6X3/8	AR1	BP2	CP2
B.5-6	HSS6X6X3/8	AR1	BP2	CP2

	B-6	B-7	B.5-6	B.5-7	C-6	C-7	D-1	D-2	D-3	D-4	D-5	
STR Level 3												STR Level 3
14' - 0"												14' - 0"
STR Level 2												STR Level 2
8' - 8"	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS8X8X3/8	HSS8X8X3/8	HSS8X8X3/8	HSS8X8X3/8	HSS8X8X3/8	8' - 8"
FIRST FLOOR												FIRST FLOOR
0' - 0"												0' - 0"
Column Locations	B-6	B-7	B.5-6	B.5-7	C-6	C-7	D-1	D-2	D-3	D-4	D-5	

COLUMN SCHEDULE
Scale: 1/8" = 1'-0"

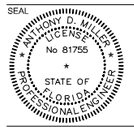
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GULF COAST ELECTRICAL COMPANY

GCEC HURRICANE SAFE ROOM

722 WEST HIGHWAY 22
WEWAHITCHKA, FL 32465
100% DESIGN

SEAL



KEY PLAN

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SCALE

REVISIONS

NO.	DESCRIPTION	DATE

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APPROVED BY	ADM
CHECKED BY	JAW
DATE	02.06.24

TITLE

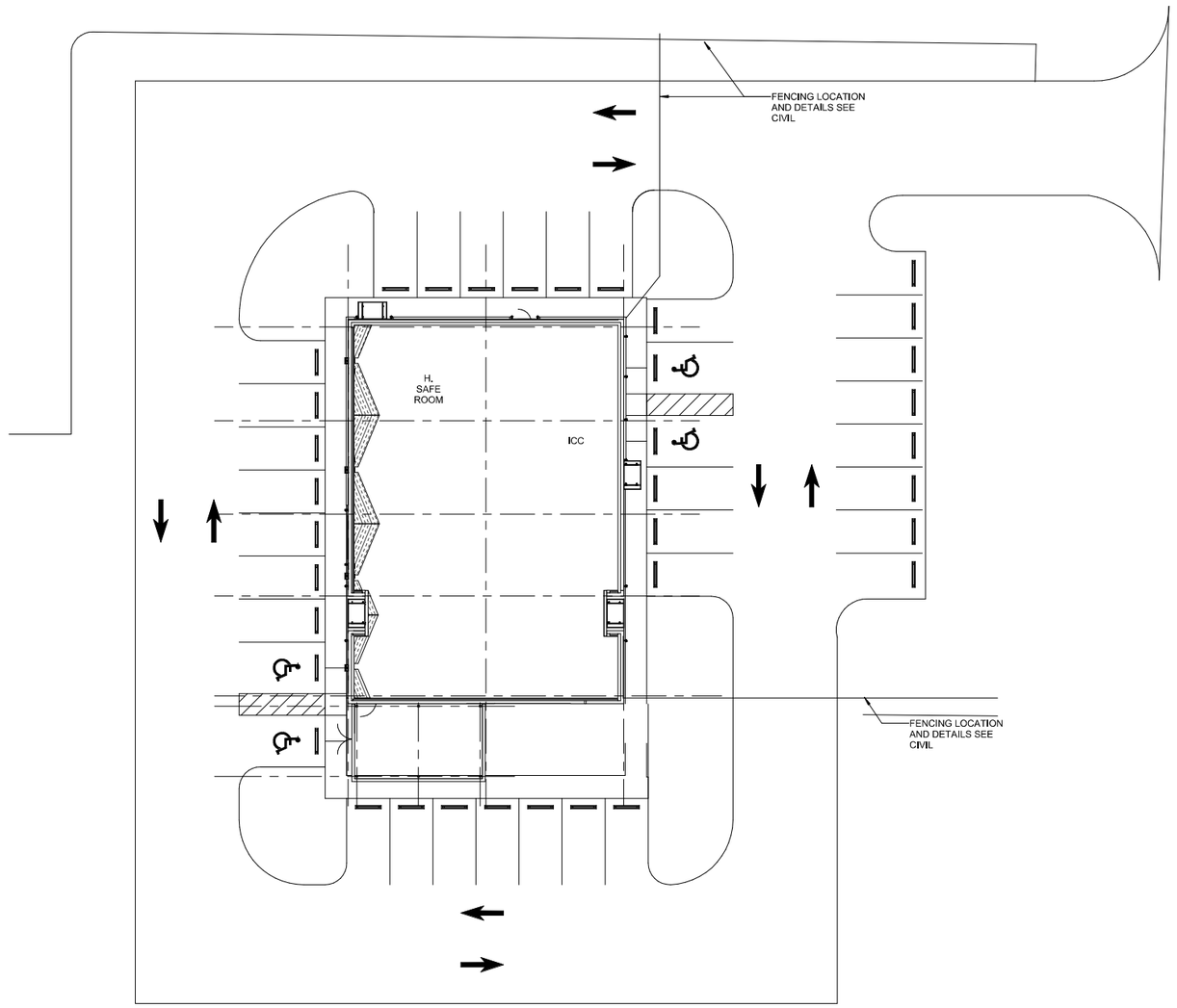
STRUCTURAL COLUMN SCHEDULE

PROJECT NO. 50150343

S-501

SHEET NO.

2/6/2024 4:46:23 PM



A1 ARCHITECTURAL SITE PLAN (REFERENCE ONLY)
Scale: 1/16" = 1'-0"

REFER TO CIVIL FOR MORE INFORMATION

0' 8' 16' 32'
SCALE: 1/16" = 1' - 0"

N Plan

2/6/2024 12:39:46 PM

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DEWBERRY ARCHITECTS, INC.
800 North Magnolia Avenue
Suite 1000
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407.843.5120

GULF COAST ELECTRICAL CO-OP

GCEC HURRICANE SAFE ROOM

722 WEST HIGHWAY 22
WEWAHITCHKA, FL 32465
100% DESIGN

SEAL

STATE OF FLORIDA
JULIA M MARTINEZ
AR94996
REGISTERED ARCHITECT

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NO.	DESCRIPTION	DATE

DRAWN BY	AC
APPROVED BY	ZM
CHECKED BY	AC
DATE	2.6.24

TITLE

ARCHITECTURAL SITE PLAN

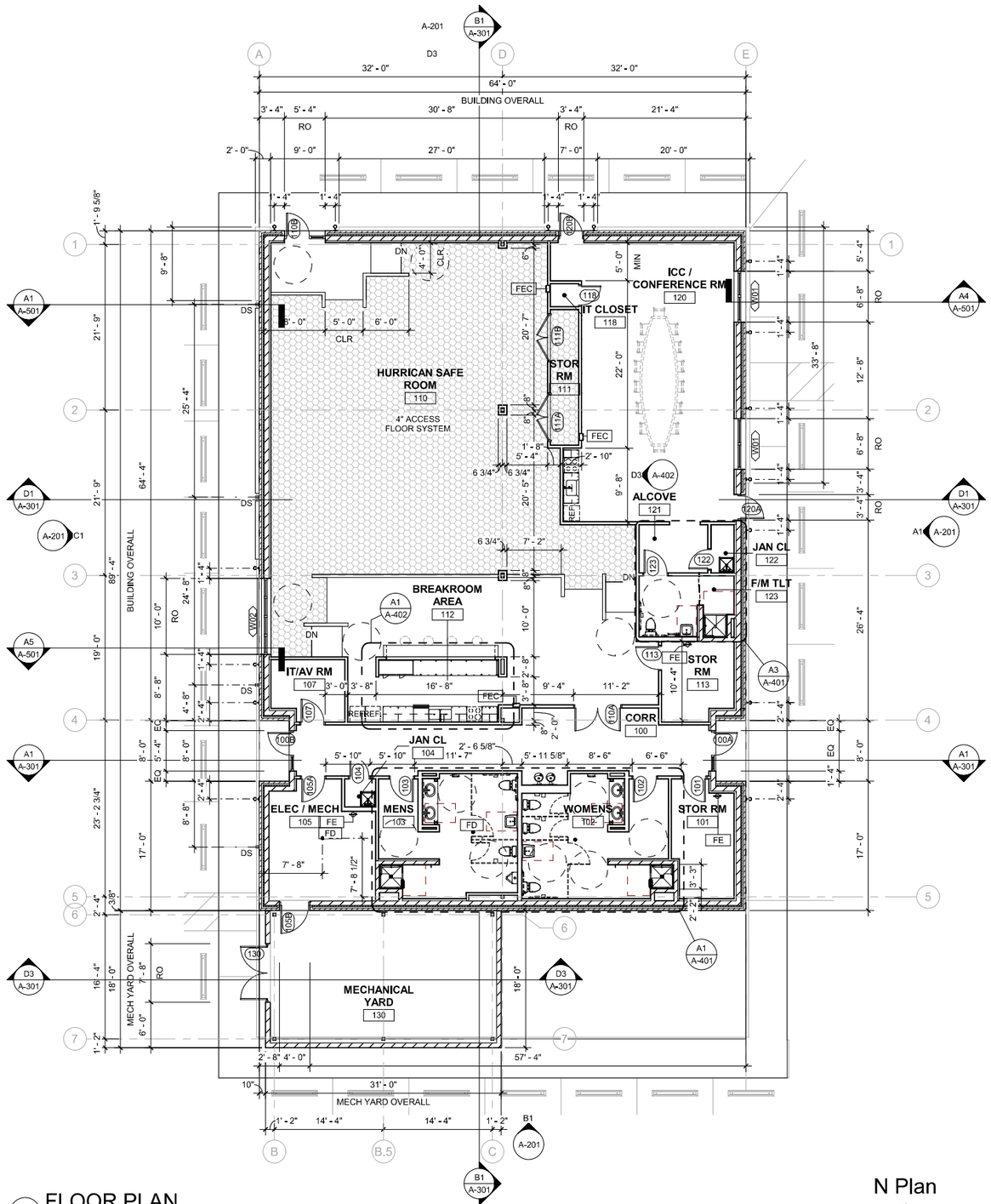
PROJECT NO. 50150343

AS-101

SHEET NO.

DIMENSION PLAN GENERAL NOTES

1. INTERIOR DIMENSIONS ARE TO FACE OF METAL STUD OR CMU UNIT AND TO CENTERLINES OF COLUMNS, U.N.O.
2. REFER TO CODE PLANS FOR GRAPHIC REPRESENTATION AND U.L. DESIGNS OF RATED WALLS AND SMOKE PARTITIONS.
3. EXTEND PARTITIONS TO UNDERSIDE OF STRUCTURE/DECK, U.N.O.
4. FINAL WALL PREP REQUIREMENTS ARE BASED ON FINISH SHOWN IN ROOM FINISH SCHEDULE AND WITH THE SPECIFICATIONS.
5. BACK-TO-BACK OUTLETS CANNOT OCCUPY SAME STUD CAVITY SPACE. IN ACOUSTICALLY TREATED WALLS, PROVIDE ACOUSTIC PUTTY PADS AROUND OUTLET BOXES.
6. REFER TO ENLARGED PLANS FOR DIMENSIONS WITHIN THESE AREAS.
7. SEE PLANS AND DETAIL PLANS FOR CHASE DIMENSIONS.
8. REFER TO DETAIL PLANS AND SECTIONS FOR FURTHER DESCRIPTION OF INTERIOR PARTITIONS.
9. REFER TO SHEET ***A-631*** FOR WALL PARTITION TYPES AND ASSEMBLIES.
10. REFER TO SHEET ***G-101*** FOR FIRE-RATED WALL ASSEMBLY NUMBERS.



A1 FLOOR PLAN
Scale: 1/8" = 1'-0"

N Plan

0' 48" 96" 192"
SCALE: 1/8" = 1' - 0"

2/6/2024 12:39:33 PM

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REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY	AC
APPROVED BY	ZM
CHECKED BY	AC
DATE	2.6.24

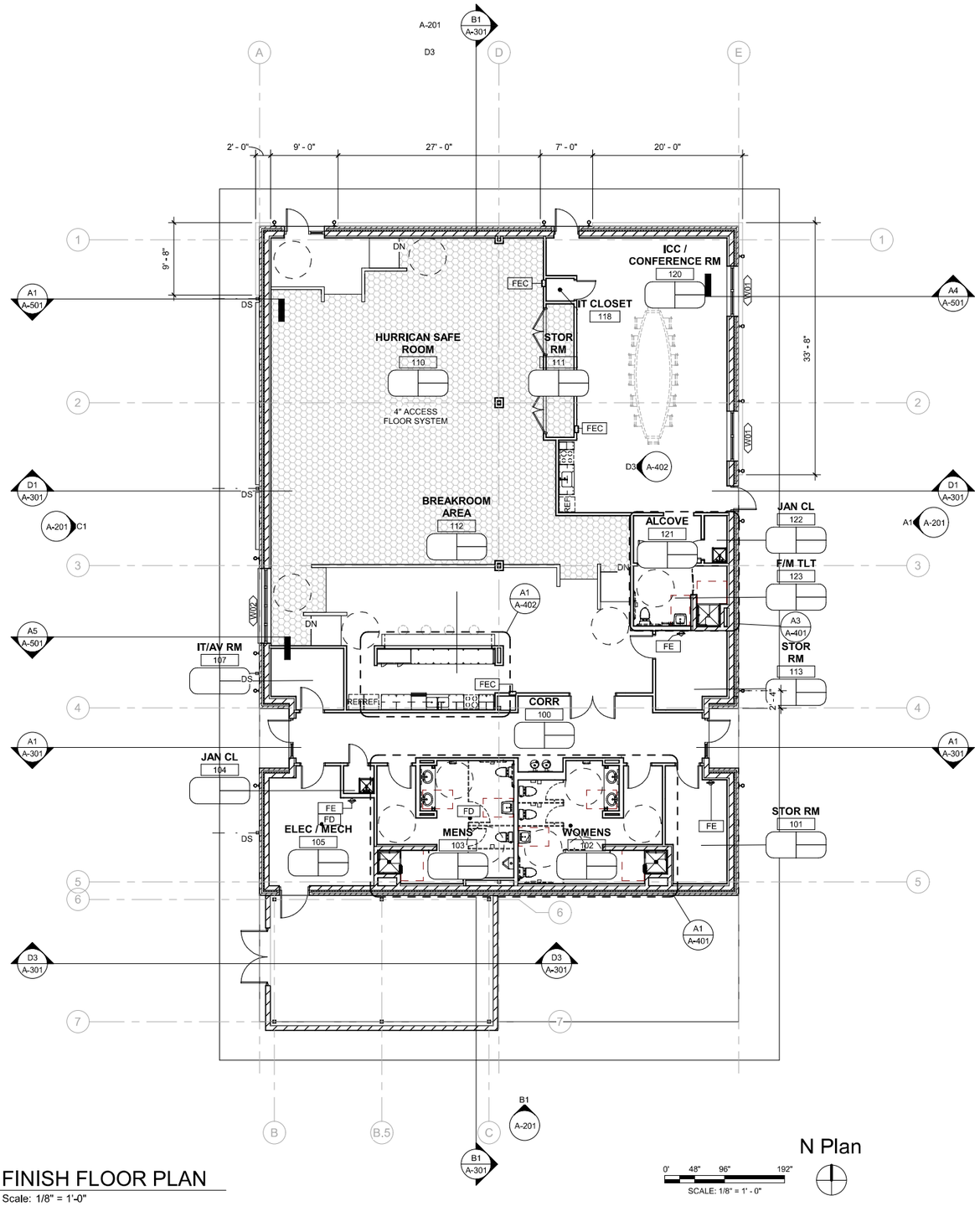
TITLE

FLOOR PLAN

PROJECT NO. 50150343

A-101

SHEET NO.



A1 FINISH FLOOR PLAN
Scale: 1/8" = 1'-0"

2/6/2024 12:39:34 PM

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AR94996
REGISTERED ARCHITECT

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DRAWN BY	AC
APPROVED BY	ZM
CHECKED BY	AC
DATE	2.6.24

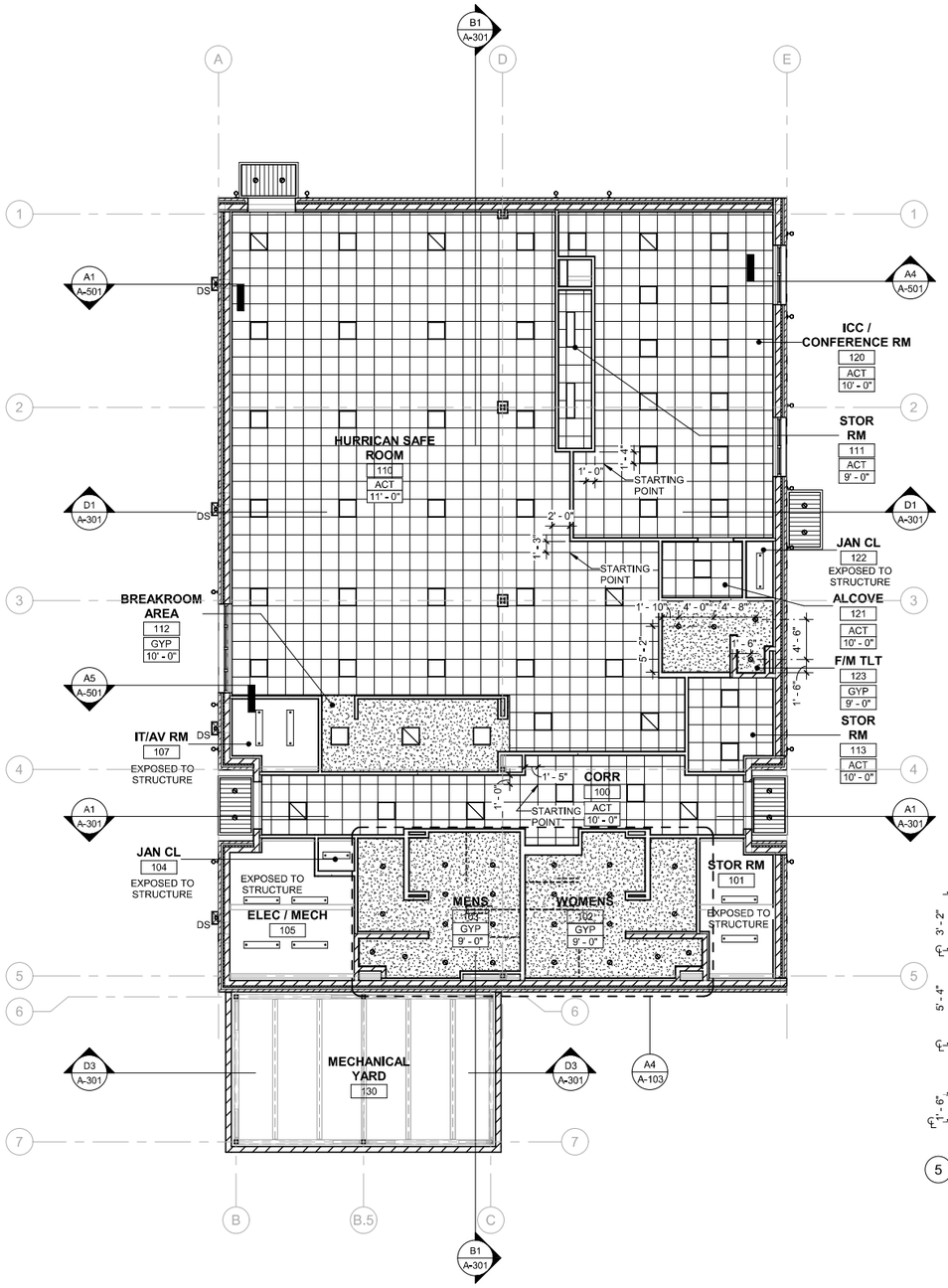
TITLE

FINISH FLOOR PLAN

PROJECT NO. 50150343

A-102

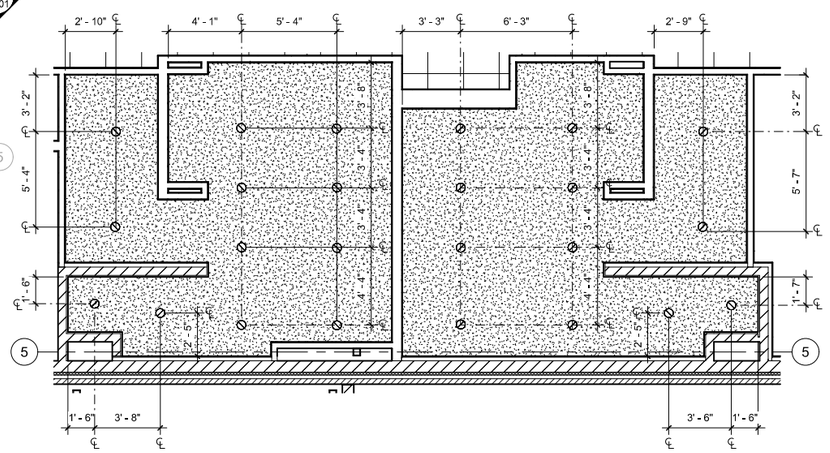
SHEET NO.



A1 REFLECTED CEILING PLAN
Scale: 1/8" = 1'-0"

N Plan

0' 48" 96" 192"
SCALE: 1/8" = 1' - 0"



A4 ENLARGED REFLECTED CEILING PLAN
Scale: 1/4" = 1'-0"

CEILING PLAN GENERAL NOTES

1. CONTROL JOINTS SHOWN IN GYPSUM BOARD SOFFITS SHALL CONTINUE ON VERTICAL SURFACE OF SAME SOFFIT. SPACE CONTROL JOINTS NO MORE THAN 25'-0" O.C. ARCHITECT TO VERIFY JOINT LOCATIONS PRIOR TO INSTALLATION.
2. SEE ENLARGED CEILING PLANS FOR ADDITIONAL SOFFIT DIMENSIONS AND CONTROL JOINT LOCATIONS.
3. ELECTRICAL, MECHANICAL, AND TECHNOLOGY FIXTURES AND DEVICES ARE SHOWN FOR REFERENCE AND TO COORDINATE PLACEMENT. REFER TO ENGINEERING DRAWINGS FOR INFORMATION REGARDING TYPE AND OTHER FIXTURE AND DEVICE INFORMATION.
4. ESTABLISH PRE-INSTALLATION MEETING WITH ARCHITECT TO REVIEW STARTING POINT OF CEILING GRID IN EACH AREA/ROOM.
5. SUBMIT A REFLECTED CEILING PLAN COORDINATION DRAWING TO ARCHITECT AFTER COORDINATING LAYOUT WITH OTHER TRADES PRIOR TO COMMENCING CEILING WORK.
6. GYPSUM CEILING TO BE PAINTED.
7. EXPOSED STRUCTURE, MECHANICAL, ELECTRICAL, AND FIRE PROTECTION COMPONENTS (EXCEPT SPRINKLER HEADS) ARE TO BE PAINTED, U.N.O.
8. SPRINKLE HEADS ARE NOT SHOWN. LOCATE SPRINKLER HEADS IN CENTER OF CEILING TILES.
9. CEILING HEIGHTS SHOWN ON REFLECTED CEILING PLANS ARE FROM FINISHED FLOOR OF PLAN SHOWN.
10. COORDINATE LOCATION OF ACCESS PANELS WITHMECHANICAL/ELECTRICAL CONTRACTORS.
11. IN ROOMS WITH EXPOSED CEILINGS, MOUNT LIGHT FIXTURES TO UNDERSIDE OF STRUCTURE. OTHER MEP/FP ITEMS TO MAINTAIN A MINIMUM CLEARANCE OF ***9'-0" A.F.F.***
12. SEE TECHNOLOGY DRAWINGS FOR SECURITY CAMERA AND MOTION DETECTOR LOCATIONS.
13. SEE ELECTRICAL LIGHTING PLANS FOR EMERGENCY LIGHT FIXTURE LOCATIONS.
14. CONTRACTOR TO COORDINATE CEILING FIXTURE LOCATIONS WITH ABOVE-CEILING WORK TO AVOID CONFLICTS.

CEILING LEGEND

REFER TO ELECTRICAL, MECHANICAL, AND DRAINAGE FOR MORE INFORMATION

APC-X / 8' - 0"	CEILING TYPE / CEILING HEIGHT		EXIT SIGN
ES	EXPOSED STRUCTURE	S	SPEAKER
	EXTERIOR SOFFIT	A	FIRE ALARM
			SPEAKER/STROBE
	2 X 2 ACT SYSTEM		STROBE
	GYP. CEILING		SMOKE DETECTOR
	LED 4' UTILITY SUSPENDED FIXTURE		SPRINKLER HEAD
	1X4 RECESSED FIXTURE		4" RECESSED DOWNLIGHT
	2X2 RECESSED FIXTURE		
	2X2 RECESSED EMERGENCY LIGHT		
	EMERGENCY LIGHT		

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GCEC HURRICANE SAFE ROOM

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WEWAHITCHKA, FL 32465
100% DESIGN

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SCALE

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DATE	2.6.24

TITLE

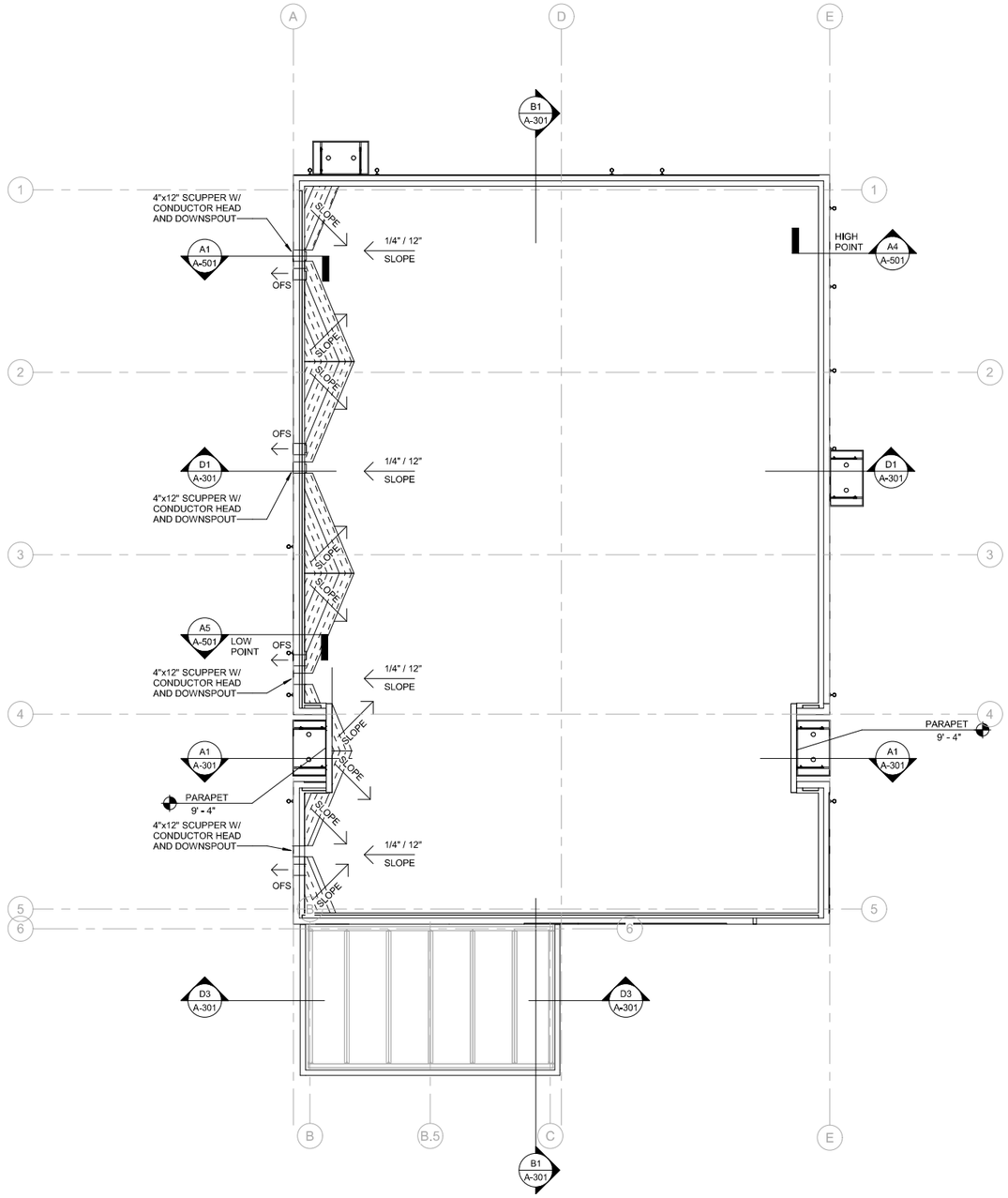
REFLECTED CEILING PLAN

PROJECT NO. 50150343

A-103

SHEET NO.

2/6/2024 12:39:35 PM



A1 ROOF PLAN

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

N Plan

0' 48" 96" 192"

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

ROOF PLAN GENERAL NOTES

1. ***REFER TO DEMOLITION DRAWINGS FOR DEMOLITION AND SELECTIVE DEMOLITION OF ROOF, ROOFING SYSTEM, AND ROOF EDGE ASSEMBLY.***
2. TAPERED INSULATION (TAPERED, CRICKETS, SADDLES) TO BE 1/4" PER FOOT MINIMUM TO ROOF DRAINS OR SCUPPERS, AS INDICATED.
3. COORDINATE WITH STRUCTURAL DRAWINGS FOR SLOPED STRUCTURE.
4. SHOP DRAWING OF TAPERED INSULATION SHALL ACCOUNT FOR CAMBER IN STRUCTURE TO INSURE POSITIVE DRAINAGE.
5. AT PENETRATIONS, PROVIDE CRICKETS AS REQUIRED FOR POSITIVE DRAINAGE.
6. COORDINATE ROOF AND OVERFLOW DRAIN LOCATIONS WITH STRUCUTRAL ELEMENTS, TO AVOID LOCATING ROOF AND OVERFLOW DRAINS OVER TOP OF STEEL BEAMS AND JOISTS.
7. REFER TO EXTERIOR ELEVATIONS FOR LOCATION OF OVERFLOW SCUPPERS AND OUTFLOWS.
8. PROVIDE 24"W. x 48"L. PRECAST CONCRETE SPLASH BLOCKS ON GRADE BELOW SCUPPERS AND OUTFLOWS THAT FLOW WATER ONTO GRADE BELOW.
9. PROVIDE 24"W. x 48"L. STAINLESS STEEL SPLASHPAN ON ROOF BELOW SCUPPERS AND OUTFLOWS THAT FLOW WATER ONTO ROOFS BELOW.
10. ROOF WALKWAY PADS SHALL BE SPACED TO PROVIDE POSITIVE DRAINAGE.
11. AT ROOF LADDERS, TOP AND BOTTOM, PROVIDE 4' x 4' ROOF WALKWAY PADS.
12. ROOF FLASHING DETAILS ARE GENERIC AND WILL NEED TO BE FINALIZED DURING SHOP DRAWING SUBMITTALS BASED ON THE ROOFING MANUFACTURER'S STANDARD DETAILS

ROOF PLAN LEGEND

SLOPE X"/1'-0" MIN.	ROOF SLOPE DIRECTION
	CRICKET
O VTR	VENT THROUGH ROOF,REFER TO MECHANICAL DWG'S
HP	HIGH POINT
LP	LOW POINT
DS	DOWNSPOUT
OFS	OVERFLOW SCUPPER

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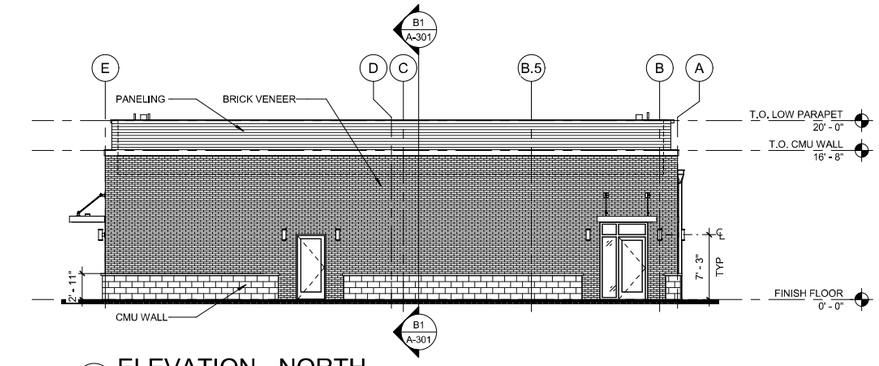
ROOF PLAN

PROJECT NO. 50150343

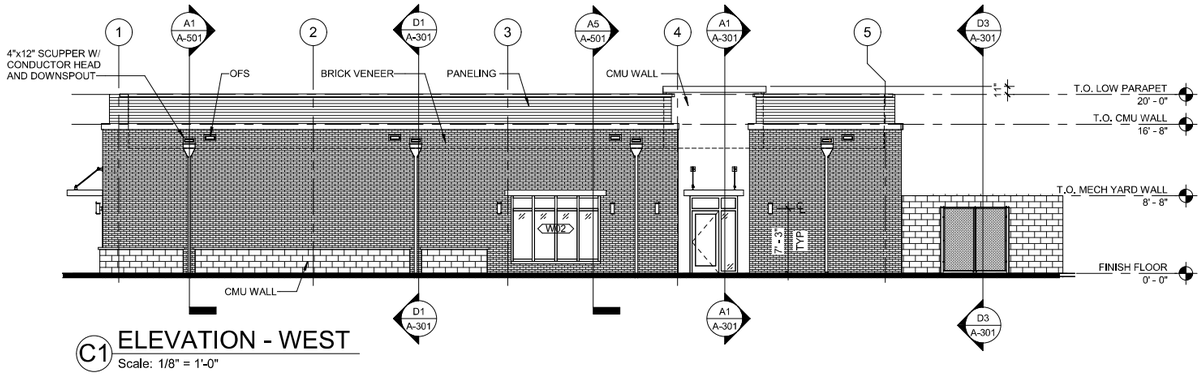
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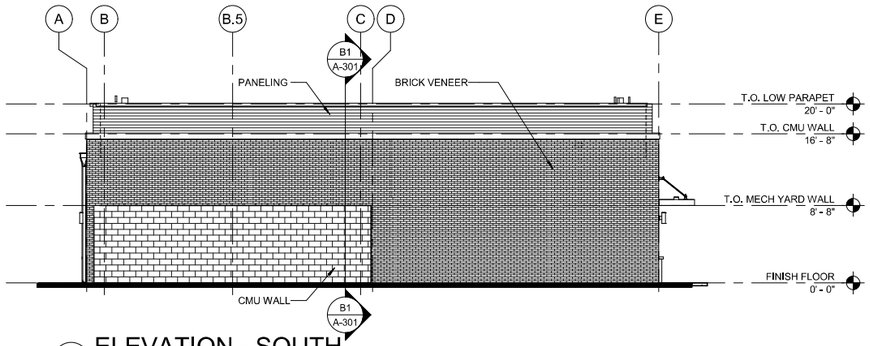
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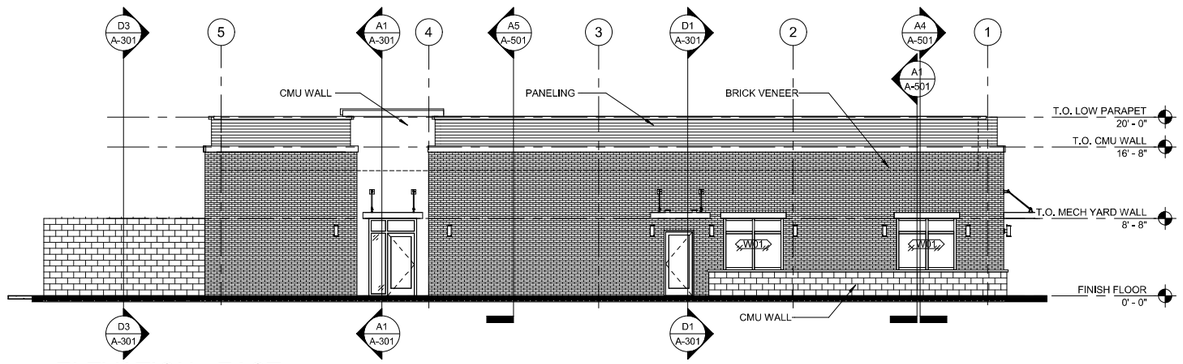
D1 ELEVATION - NORTH
Scale: 1/8" = 1'-0"



C1 ELEVATION - WEST
Scale: 1/8" = 1'-0"



B1 ELEVATION - SOUTH
Scale: 1/8" = 1'-0"



A1 ELEVATION - EAST
Scale: 1/8" = 1'-0"

2/6/2024 12:39:37 PM

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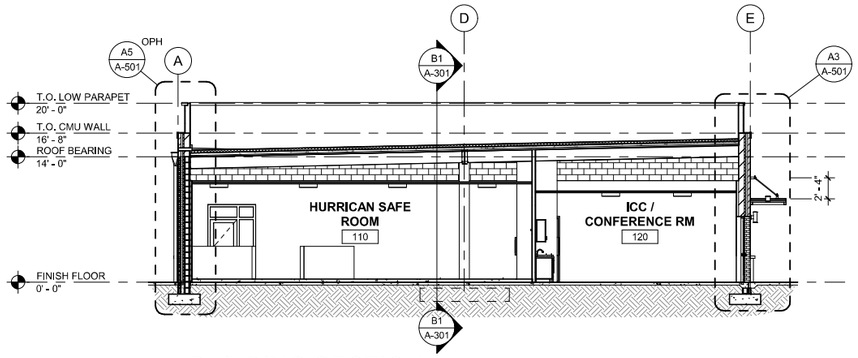
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EXTERIOR ELEVATIONS

PROJECT NO. 50150343

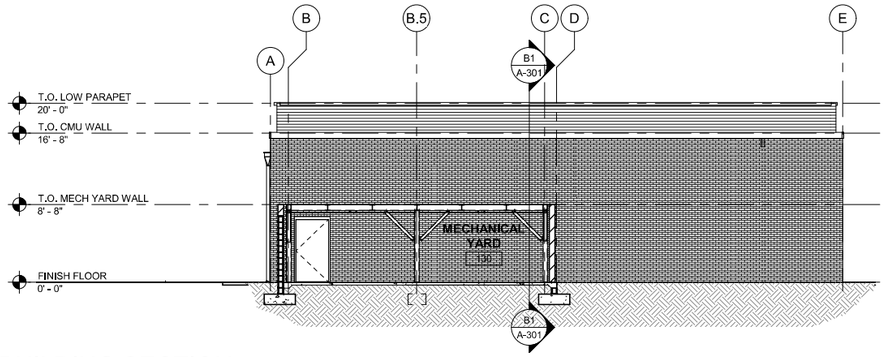
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SHEET NO.



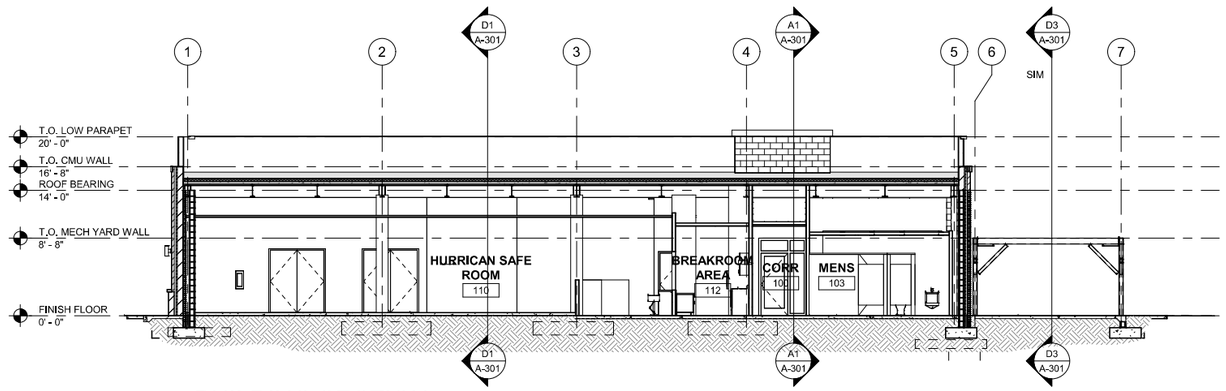
D1 BUILDING SECTION

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



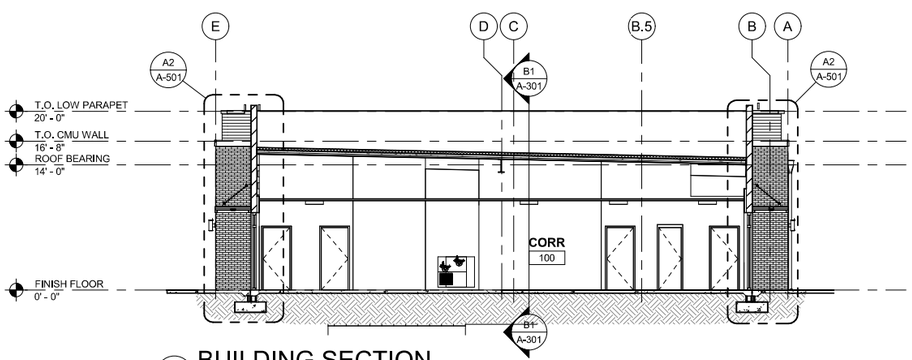
D3 BUILDING SECTION

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



B1 BUILDING SECTION

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



A1 BUILDING SECTION

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

KEYNOTES PER SHEET	
NOTE	DESCRIPTION

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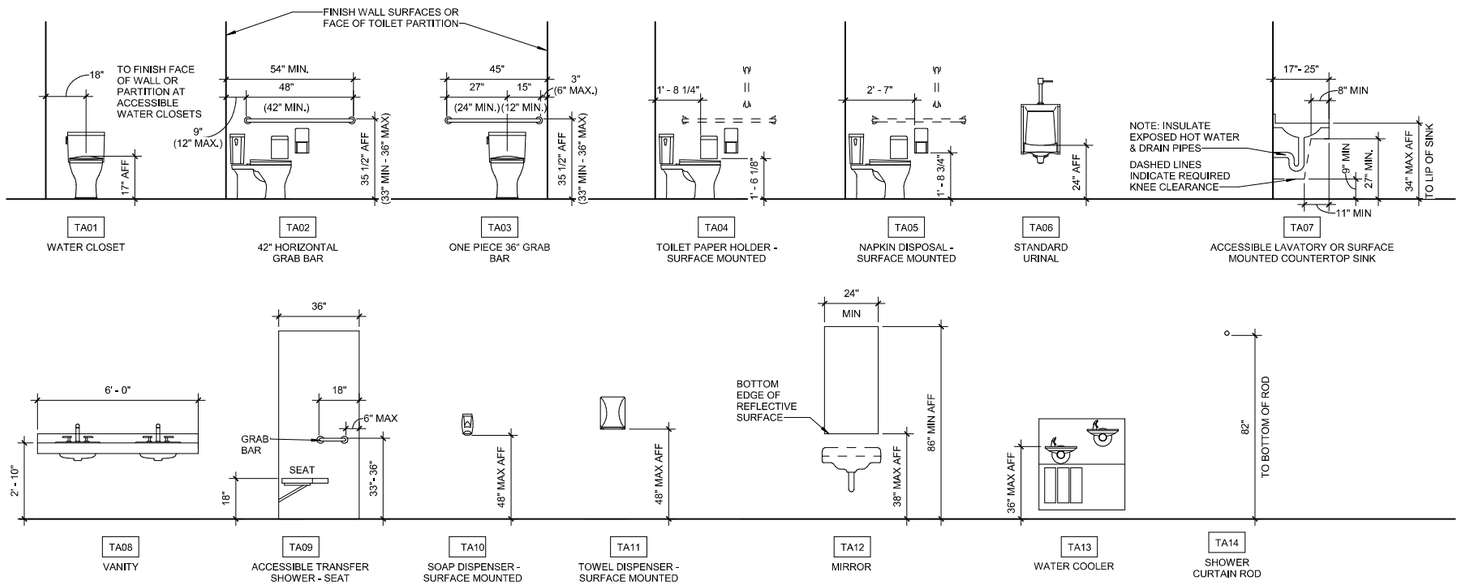
BUILDING SECTIONS

PROJECT NO. 50150343

A-301

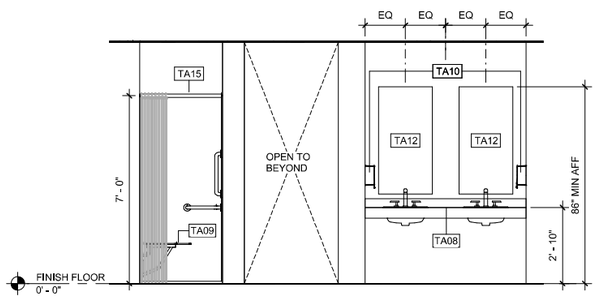
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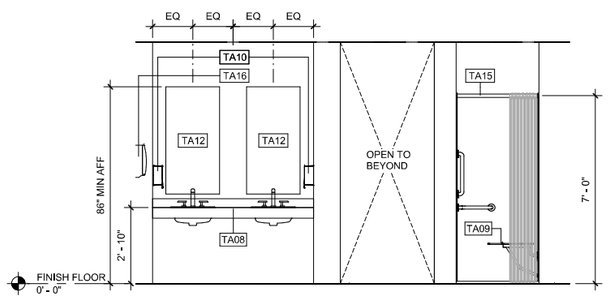


SPECIALTY EQUIP. SCHEDULE			
TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL
TA01	WATER CLOSET		
TA02	42" HORIZONTAL GRAB BAR		
TA03	36" HORIZONTAL GRAB BAR		
TA04	TOILET PAPER HOLDER - SURFACE MOUNTED		
TA05	NAPKIN DISPOSAL - SURFACE MOUNTED		
TA06	STANDARD URINAL		
TA07	ACCESSIBLE LAVATORY OR SURFACE MOUNTED COUNTERTOP SINK		
TA08	VANITY		
TA09	ACCESSIBLE TRANSFER SHOWER - SEAT WALL		
TA10	SOAP DISPENSER - SURFACE MOUNTED		
TA11	TOWEL DISPENSER - SURFACE MOUNTED		
TA12	MIRROR		
TA13	WATER COOLER		
TA14	SHOWER CURTAIN ROD		

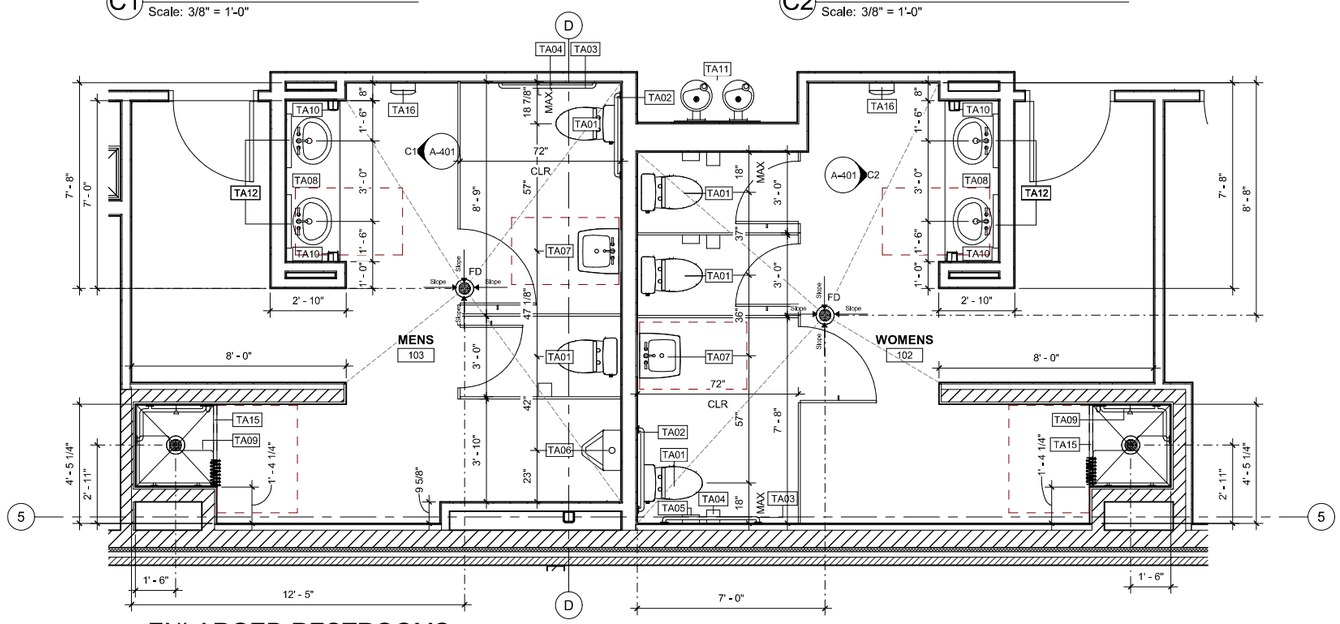
NOTE: ALL TOLIET ACCESSORIES ARE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLTED.



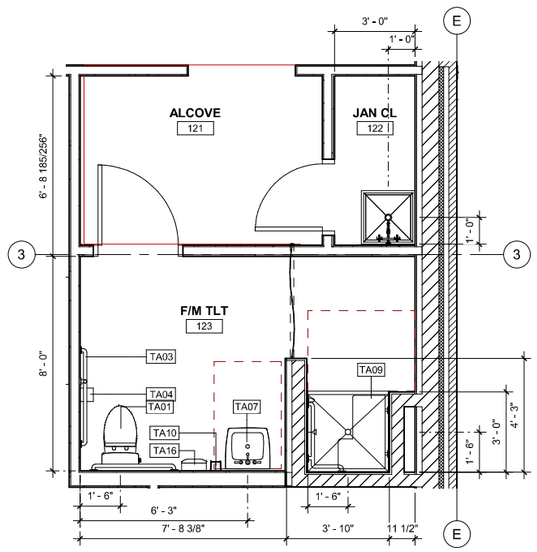
C1 MEN'S RR ELEVATION
Scale: 3/8" = 1'-0"



C2 WOMEN'S RR ELEVATION
Scale: 3/8" = 1'-0"



A1 ENLARGED RESTROOMS
Scale: 3/8" = 1'-0"



A3 ENLARGED F/M RESTROOM
Scale: 3/8" = 1'-0"

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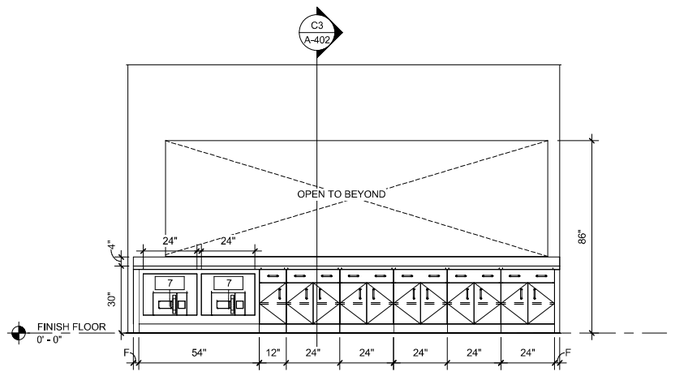
TITLE
RESTROOM PLANS AND ELEVATIONS

PROJECT NO. 50150343

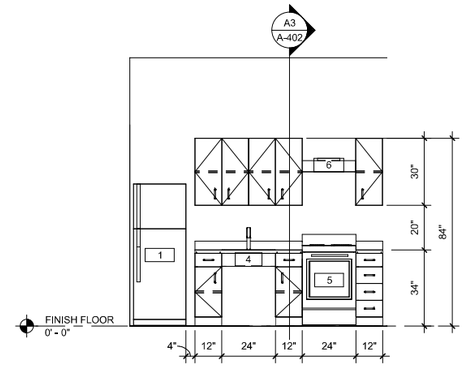
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SHEET NO.

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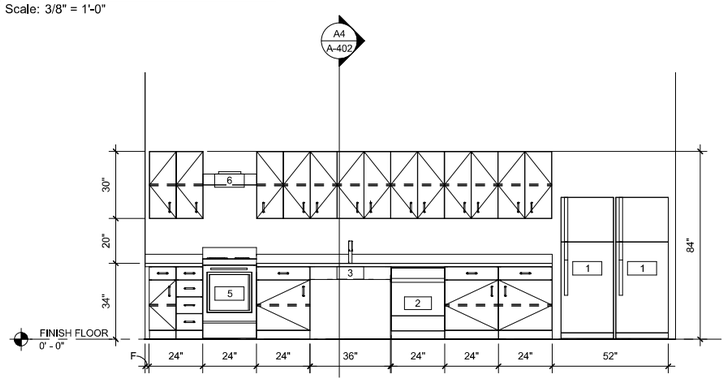


D1 INTERIOR ELEVATION
Scale: 3/8" = 1'-0"

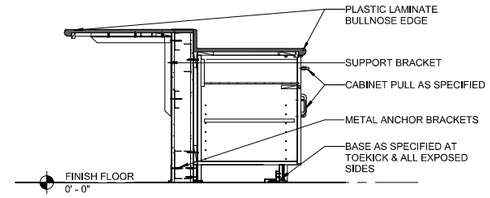


D3 INTERIOR ELEVATION
Scale: 3/8" = 1'-0"

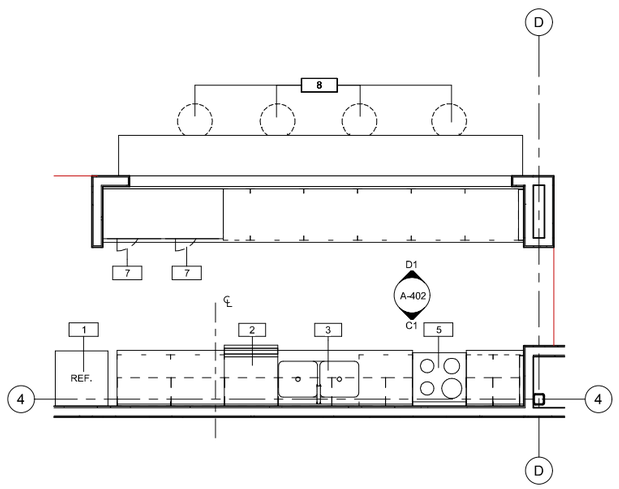
EQUIPMENT/FURNITURE SCHEDULE		
TYPE MARK	DESCRIPTION	FURNISHED/ INSTALLED
1	REFRIGERATOR	
2	DISHWASHER	
3	UNDERMOUNT DOUBLE SINK	
4	UNDERMOUNT SINGLE SINK	
5	RANGE	
6	RANGE HOOD	
7	MICROWAVE OVEN	
8	STOOL CHAIR	
9	BRUER CHAIR	
10	BOAT CONFERENCE TABLE	



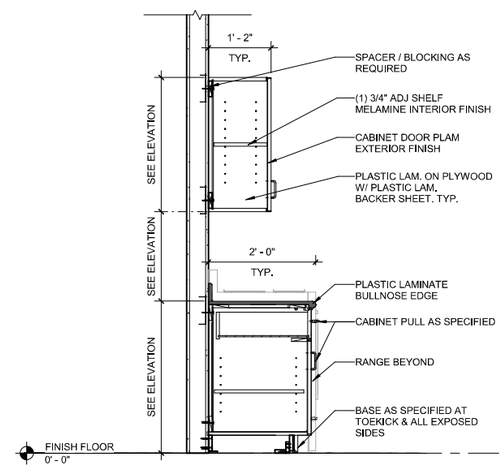
C1 INTERIOR ELEVATION
Scale: 3/8" = 1'-0"



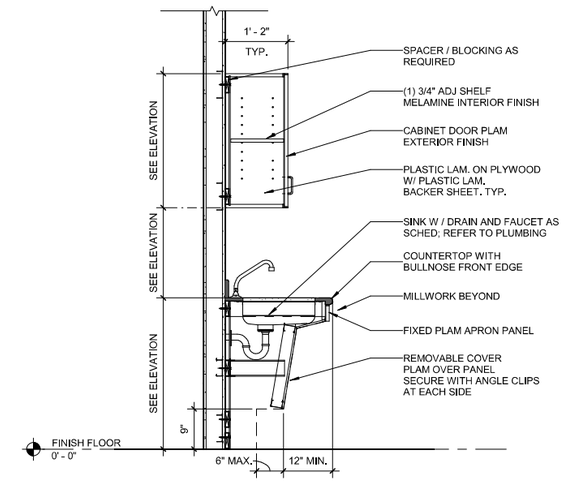
C3 BREAK ROOM MILLWORK
Scale: 3/4" = 1'-0"



A1 ENLARGED KITCHEN
Scale: 3/8" = 1'-0"



A3 COFFEE STATION MILLWORK
Scale: 3/4" = 1'-0"



A4 BREAK ROOM MILLWORK
Scale: 3/4" = 1'-0"

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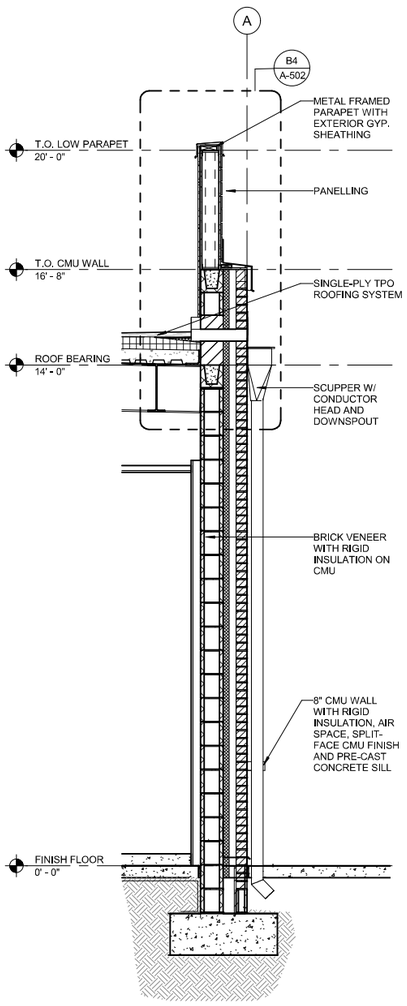
MILLWORK PLANS, ELEVATIONS, AND DETAILS

PROJECT NO. 50150343

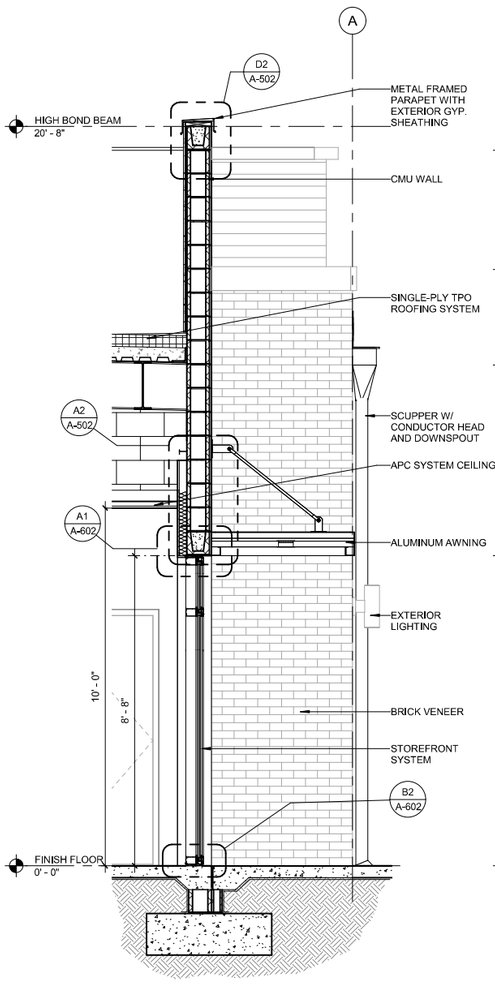
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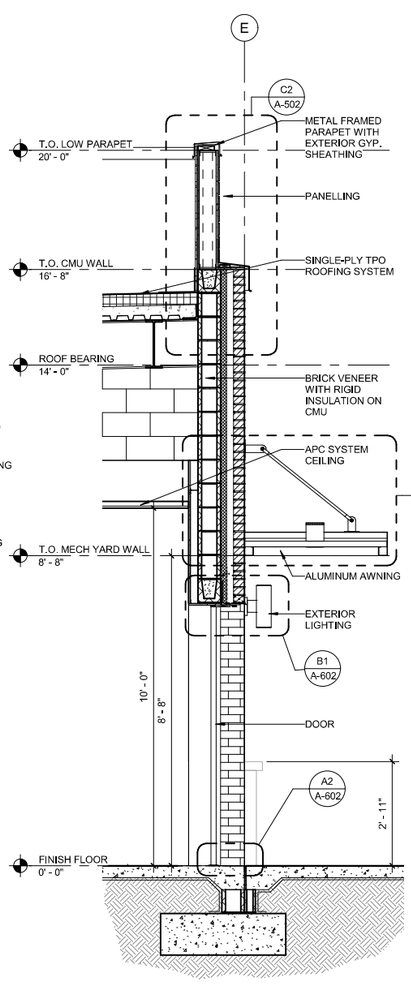
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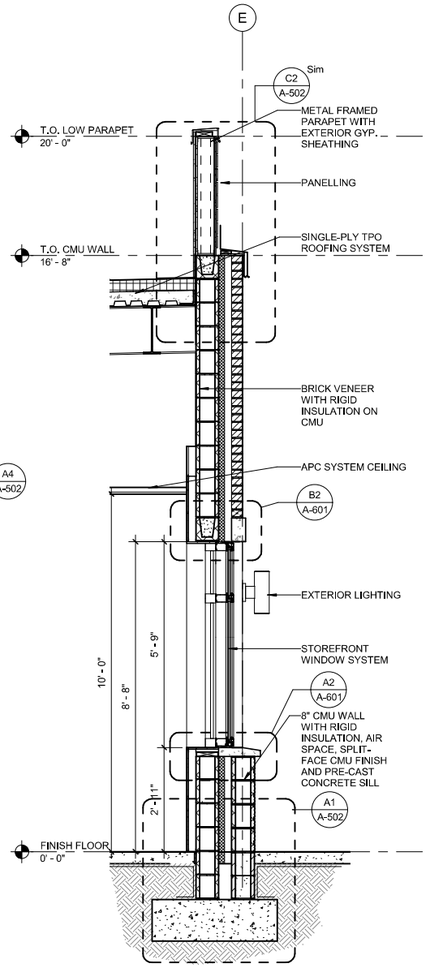
A1 WALL SECTION
Scale: 1/2" = 1'-0"



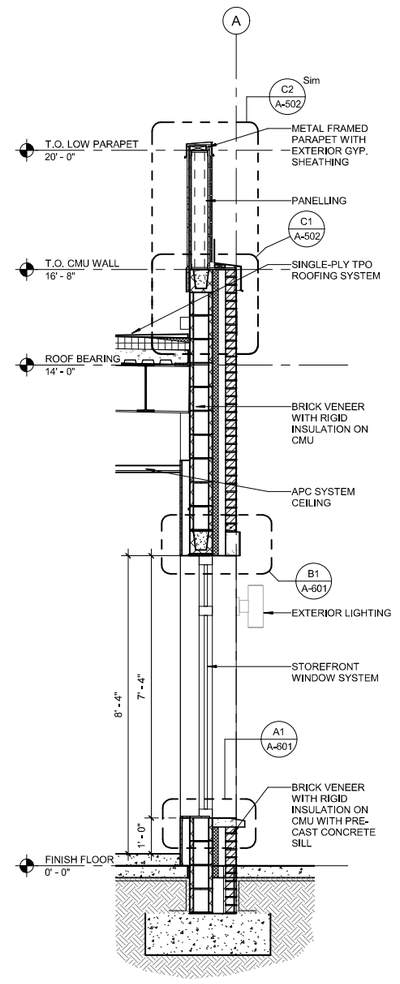
A2 WALL SECTION
Scale: 1/2" = 1'-0"



A3 WALL SECTION
Scale: 1/2" = 1'-0"



A4 WALL SECTION
Scale: 1/2" = 1'-0"



A5 WALL SECTION
Scale: 1/2" = 1'-0"

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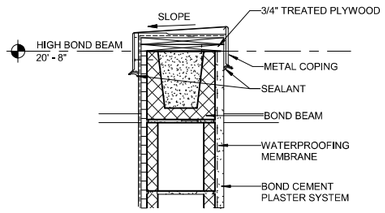
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WALL SECTIONS

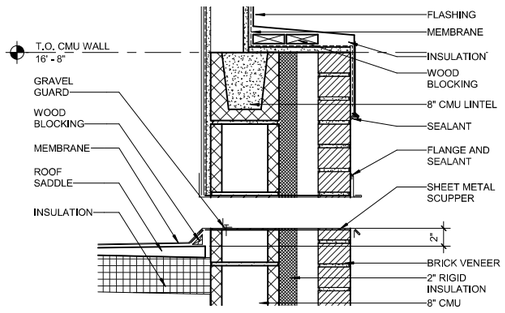
PROJECT NO. 50150343

A-501

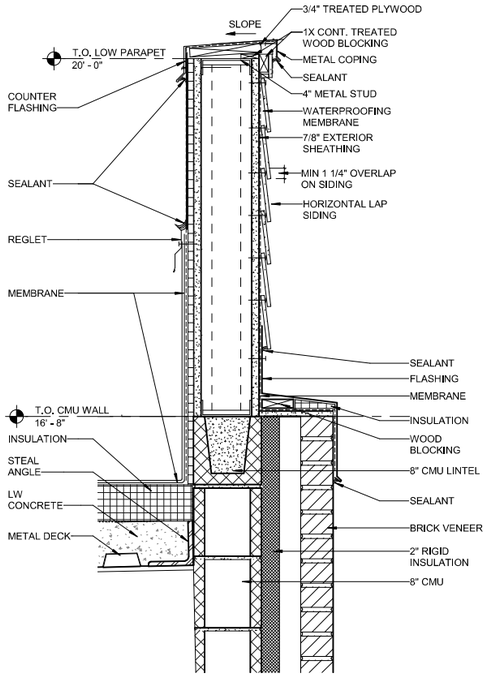
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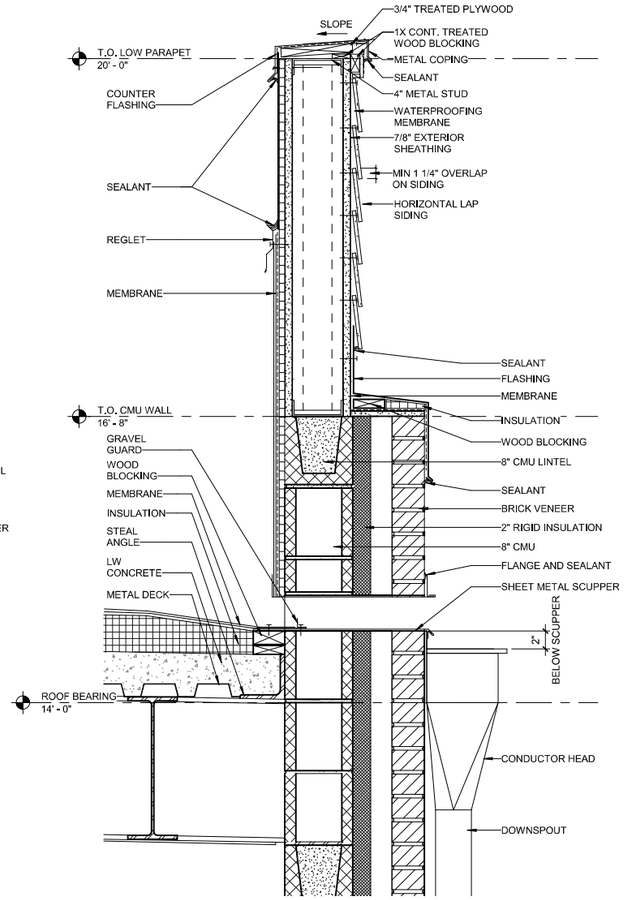
D2 PARAPET @ ENTRY
Scale: 1 1/2" = 1'-0"



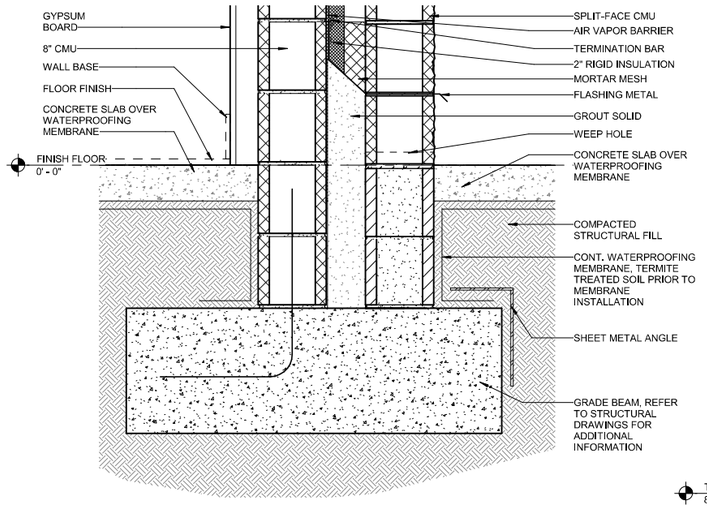
C1 OVERFLOW SCUPPER
Scale: 1 1/2" = 1'-0"



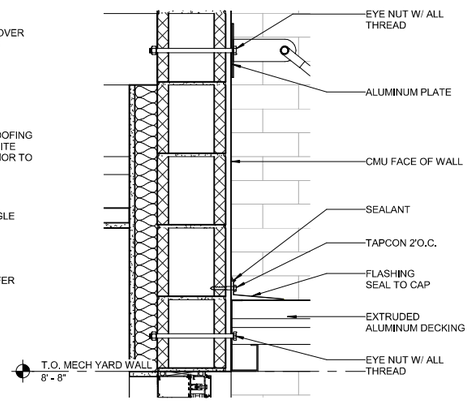
C2 PARAPET DETAIL TYP.
Scale: 1 1/2" = 1'-0"



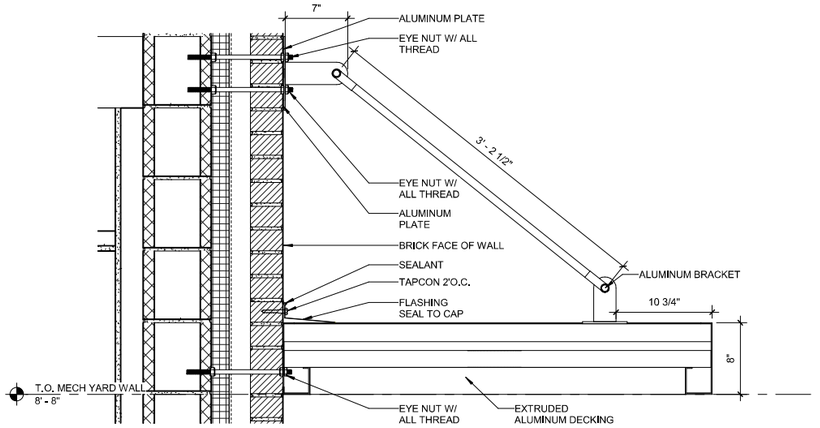
B4 PARAPET DETAIL @ SCUPPER
Scale: 1 1/2" = 1'-0"



A1 FOUNDATION @ SPLIT-FACE
Scale: 1 1/2" = 1'-0"



A2 ALT. AWNING @ STUCCO
Scale: 1 1/2" = 1'-0"



A4 AWNING @ BRICK VENEER
Scale: 1 1/2" = 1'-0"

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800 North Magnolia Avenue
Suite 1000
Orlando, FL 32803
407.843.5120

GULF COAST ELECTRICAL CO-OP

GCEC HURRICANE SAFE ROOM

722 WEST HIGHWAY 22
WEWAHITCHKA, FL 32465
100% DESIGN

SEAL

STATE OF FLORIDA · JULIAN M. MARTINEZ · AR94996 · REGISTERED ARCHITECT

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SCALE

REVISIONS

NO.	DESCRIPTION	DATE

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APPROVED BY	ZM
CHECKED BY	AC
DATE	2.6.24

TITLE

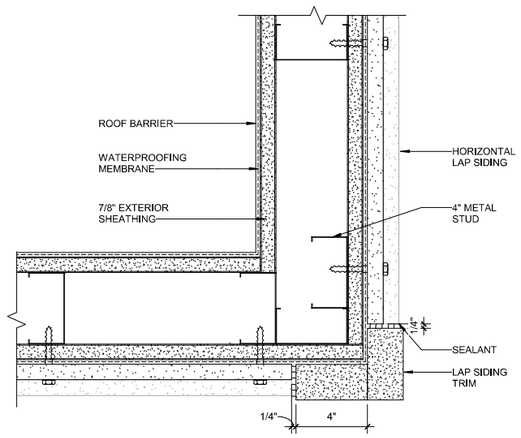
WALL DETAILS

PROJECT NO. 50150343

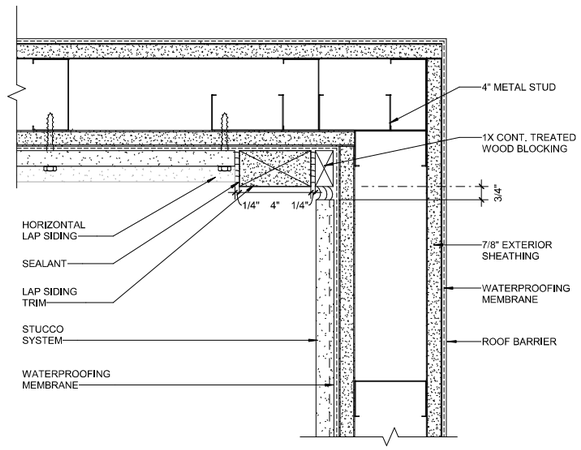
A-502

SHEET NO.

2/6/2024 12:39:43 PM



A1 OUTSIDE CORNER PLAN DETAIL
Scale: 3" = 1'-0"



A2 INSIDE CORNER PLAN DETAIL
Scale: 3" = 1'-0"

2/6/2024 12:39:44 PM

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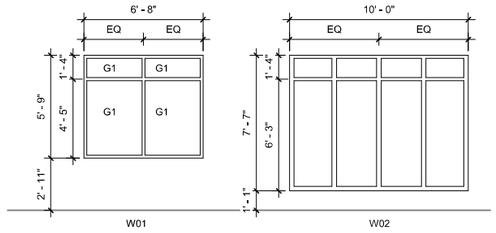
TITLE

PLAN DETAILS

PROJECT NO. 50150343

A-503

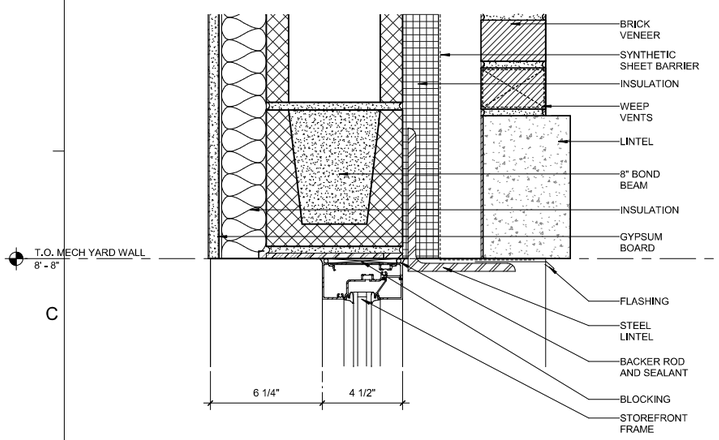
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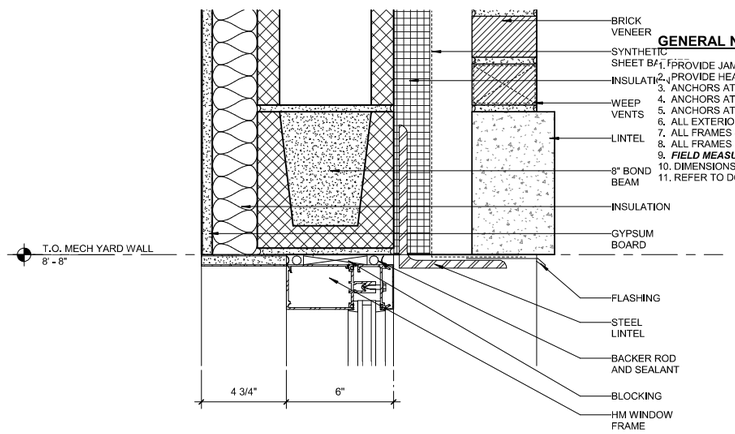
E1 WINDOW ELEVATION
Scale: 1/4" = 1'-0"

GLAZING GENERAL NOTES:
1. ALL GLAZING TO BE TEMPERED, U.N.O. 2. ALL INSULATED UNITS TO HAVE LOW-E COATING, U.N.O. 3. REFER TO DOOR SCHEDULE AND WINDOW TYPES FOR LOCATION OF GLAZING TYPES. 4. DIMENSIONS SHOWN ARE NOMINAL AND MAY NEED ADJUSTMENT BASED ON SYSTEM SHIM AND DEFLECTION REQUIREMENTS. FIELD MEASURE OPENINGS PRIOR TO FABRICATION OF GLAZING TYPES. 5. REFER TO SPECIFICATIONS FOR DETAILED DESCRIPTIONS OF GLAZING TYPES.

GLAZING SCHEDULE	
G1	1/4" CLEAR, SAFETY GLASS
G2	1/4" TINTED, SAFETY GLASS
G3	1" CLEAR, INSULATED UNIT
G4	1" TINTED, INSULATED UNIT
G5	I" SPANDREL, INSULATED UNIT
G6	1/4" CLEAR, LAMINATED GLASS
G7	1/4" TINTED, LAMINATED GLASS
G8	I" CLEAR, INSULATED LAMINATED UNIT
G9	I" TINTED, INSULATED LAMINATED UNIT
G10	1" SPANDREL, INSULATED LAMINATED UNIT
G11	<OTHER>
SG-1	1/2" LAMINATED POLYCARBONATE
SG-2	15/16" LAMINATED GLASS-CLAD POLYCARBONATE
SG-3	1 3/8" LAMINATED GLASS-CLAD POLYCARBONATE
SG-4	1 1/4" MULTI-PLY POLYCARBONATE
SG-5	1 1/4" INSULATED, GLASS-CLAD POLYCARBONATE
SG-6	<OTHER>

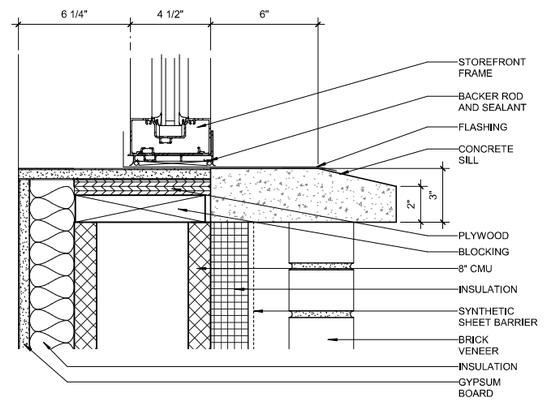


B1 STOREFRONT HEAD DETAIL
Scale: 3" = 1'-0"

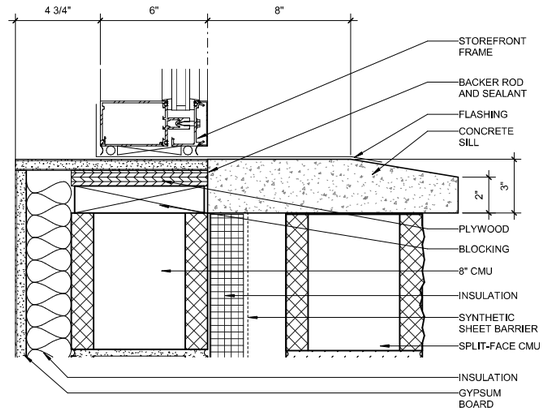


B2 WINDOW HEAD DETAIL
Scale: 3" = 1'-0"

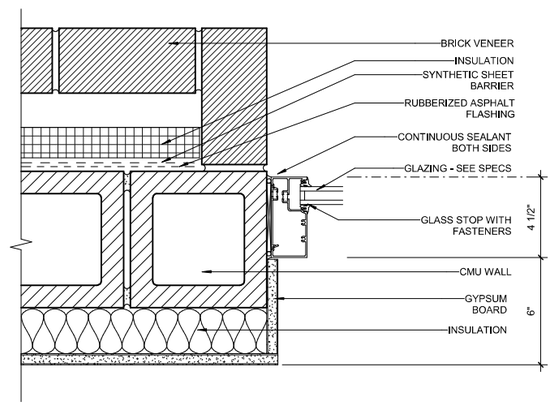
GENERAL NOTES - DOORS AND WINDOWS
1. PROVIDE JAMB ANCHORS, MAX 8" FROM TOP AND MAX 16" FROM BOTTOM.
2. PROVIDE HEAD AND SILL ANCHORS MAX 6" FROM ENDS AND MAX 16" O.C. WHERE MASONRY WIDTH IS 40" OR GREATER.
3. ANCHORS AT MASONRY SHALL BE 12 GA. GALVANIZED STEEL PERFORATED, T-SHAPED, ADJUSTABLE, 10" LONG, AT 16" O.C.
4. ANCHORS AT UNINSULATED CONCRETE SHALL BE FRAME WELDED TO SUBFRAME.
5. ANCHORS AT FLOOR LEVEL SHALL HAVE 12 GA. STEEL ANGLES WELDED TO THE BOTTOM OF THE JAMBS AND SHALL BE ADJUSTABLE.
6. ALL EXTERIOR (HM & DHM) WINDOWS, DOORS AND FRAMES SHALL BE GALVANIZED STEEL.
7. ALL FRAMES SET IN CMU WALLS SHALL BE GROUTED FULL WITH MORTAR.
8. ALL FRAMES CAST INTO CONCRETE PANELS SHALL BE TIED TO PRECAST REBAR REINFORCING AT EACH ANCHOR STRAP LOCATION WITH 8 GA GALVANIZED WIRE.
9. ***FIELD MEASURE ALL OPENINGS PRIOR TO FABRICATION OF GLAZING TYPES.***
10. DIMENSIONS SHOWN ON DOOR AND WINDOW ELEVATIONS ARE NOMINAL AND MAY NEED ADJUSTMENT BASED ON SYSTEM SHIM AND DEFLECTION REQUIREMENTS.
11. REFER TO DOOR AND WINDOW ELEVATIONS FOR LOCATION OF GLAZING TYPES.



A1 STOREFRONT SILL DETAIL
Scale: 3" = 1'-0"



A2 WINDOW SILL DETAIL
Scale: 3" = 1'-0"



A4 WINDOW JAMB DETAIL
Scale: 3" = 1'-0"

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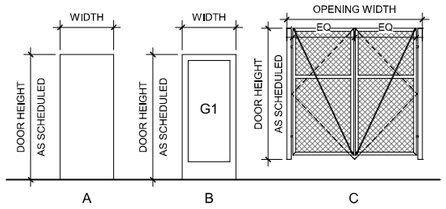
WINDOW SCHEDULE AND DETAILS

PROJECT NO. 50150343

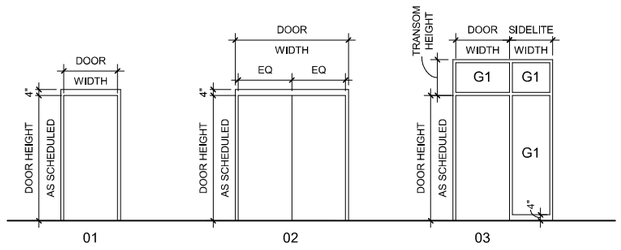
A-601

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E1 DOOR PANEL TYPES
Scale: 1/4" = 1'-0"



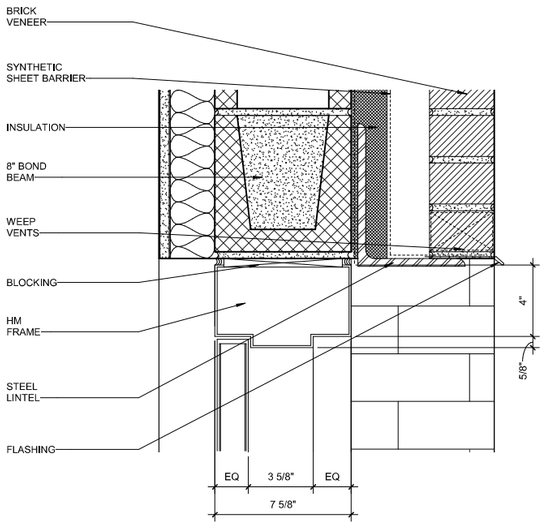
E2 DOOR FRAME TYPES
Scale: 1/4" = 1'-0"

DOOR SCHEDULE

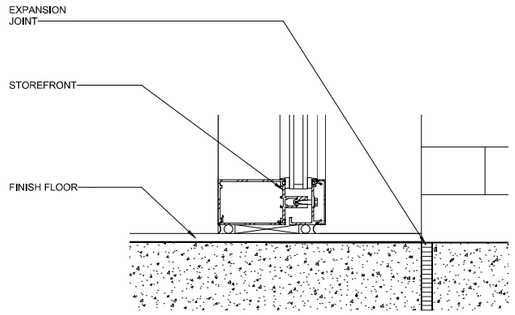
DOOR NUMBER	DOOR						FRAME				DETAILS				
	LEAF QTY	SIZE			TYPE	MATERIAL	TYPE	MATERIAL	SIDELIGHT WIDTH	TRANSOM HEIGHT	HEAD	JAMB	SILL	FIRE LABEL	HARDWARE
		WIDTH	HEIGHT	THICKNESS											
100A	1	3' - 0"	7' - 0"	1 3/4"	FG / HG	AL		AL	2' - 1"	1' - 8"					
100B	1	3' - 0"	7' - 0"	1 3/4"	FG / HG	AL		AL	2' - 1"	1' - 8"					
101	1	3' - 0"	7' - 0"	1 3/4"	A	HCW	01	HM							
102	1	3' - 0"	7' - 0"	1 3/4"	A	HCW	01	HM							
103	1	3' - 0"	7' - 0"	1 3/4"	A	HCW	01	HM							
104	1	2' - 6"	7' - 0"	1 3/4"	A	HCW	01	HM							
105A	1	3' - 0"	7' - 0"	1 3/4"	A	HCW	01	HM							
105B	1	3' - 8"	7' - 0"	1 3/4"	A	HM	01	HM							
107	1	3' - 0"	7' - 0"	1 3/4"	A	HCW	01	HM							
110A	2	3' - 0"	7' - 0"	1 3/4"	A	HCW	02	HM							
110B	1	3' - 0"	7' - 0"	1 3/4"	FG / HG	AL		AL	2' - 1"	1' - 8"					
111A	2	3' - 0"	7' - 0"	1 3/4"	A	HCW	02	HM							
111B	2	3' - 0"	7' - 0"	1 3/4"	A	HCW	02	HM							
113	1	3' - 0"	7' - 0"	1 3/4"	A	HCW	01	HM							
118	1	2' - 6"	7' - 0"	1 3/4"	A	HCW	01	HM							
120A	1	3' - 0"	7' - 2"	1 3/4"	FG / HG	AL		AL							
120B	1	3' - 0"	7' - 2"	1 3/4"	FG / HG	AL		AL							
122	1	2' - 6"	7' - 0"	1 3/4"	A	HCW	01	HM							
123	1	3' - 0"	7' - 0"	1 3/4"	A	HCW	01	HM							
130	2	3' - 6"	7' - 4"	1 3/4"	C	CL	-	AL							

GENERAL NOTES - DOORS AND WINDOWS

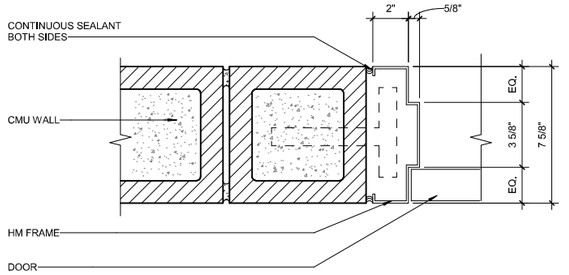
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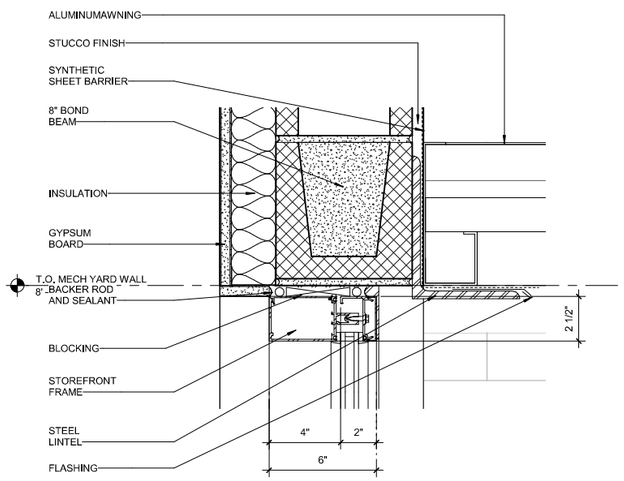
B1 DOOR HEAD DETAIL TYP.
Scale: 3" = 1'-0"



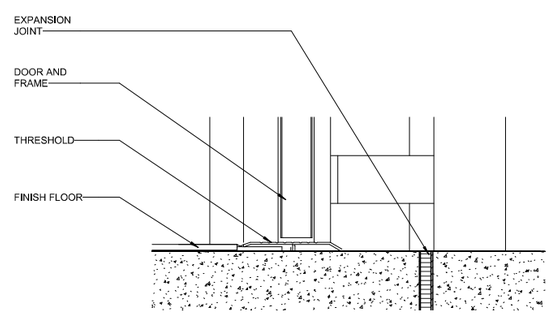
B2 THRESHOLD 1 DETAIL
Scale: 3" = 1'-0"



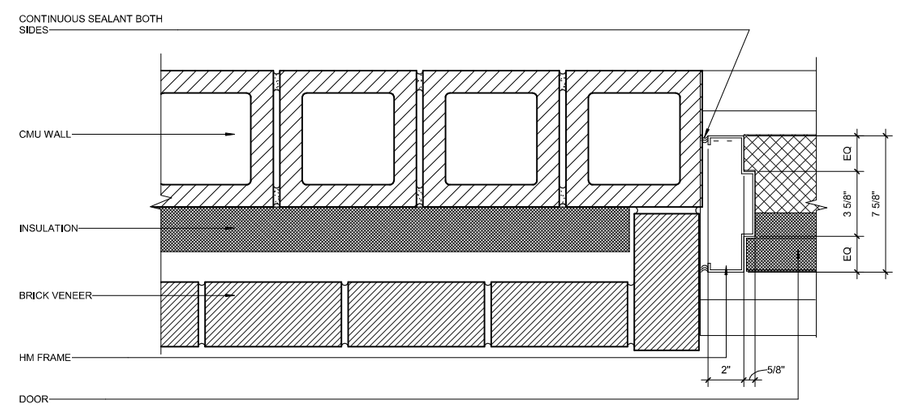
B4 INTERIOR DOOR JAMB
Scale: 3" = 1'-0"



A1 DOOR HEAD DETAIL @ ENTRY
Scale: 3" = 1'-0"



A2 THRESHOLD 3 DETAIL
Scale: 3" = 1'-0"



A4 EXTERIOR DOOR JAMB
Scale: 3" = 1'-0"

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TITLE

DOOR SCHEDULE AND DETAILS

PROJECT NO. 50150343

A-602

SHEET NO.

2/6/2024 12:39:45 PM

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	NEW PIPING
	EXISTING PIPING
	DEMOLISHED PIPING
CW	COLD WATER PIPING
HW	110° HOT WATER PIPING
HWR	HOT WATER RETURN PIPING
SAN U/G	SANITARY DRAINAGE PIPING (UNDERGROUND)
SAN	SANITARY DRAINAGE PIPING (ABOVE SLAB)
STO	STORM OVERFLOW (SECONDARY)
ST	STORM (PRIMARY)
ST U/G	STORM PIPING (UNDERGROUND)
V	VENT PIPING
CD	CONDENSATE PIPING
OR	CLEANOUTS
	PIPE END CAP
	PIPE TURNING DOWN
	PIPE TURNING UP
	PIPE TURNING DOWN (TEE)
	PIPING TEE
	ROLL DOWN
	P-TRAP
	FLOW ARROW
HB-1 OR WHY-1	HOSE BIBB / WALL HYDRANT
	PRESSURE GAUGE
	CIRCULATING PUMP
	BALL VALVE
	CALIBRATING BALANCING VALVE
	BUTTERFLY VALVE
	UNION
	STRAINER
	CONTROL VALVE
	PSI REG.
	PSI REG.
	CHECK VALVE
	FLOW SWITCH
	FLEX CONNECTION
	THREE-WAY CONTROL VALVE
	THERMOMETER
	RELIEF VALVE
	VALVE ON RISER
	TEST PLUG
	FLOW SWITCH
	PRESSURE SWITCH
	GLOBE VALVE
	AUTOMATIC AIR VENT

SYMBOL	DESCRIPTION
A / 1	PLUMBING RISER DESIGNATION: A = RISER IDENTIFYING SYSTEM TYPE 1 = RISER IDENTIFYING SYSTEM NUMBER
A / B SIM	SECTION SYMBOL: A = IDENTIFYING LETTER B = SHEET WHERE SECTION IS SHOWN SIM = SIMILAR (ONLY NOTED IF IT APPLIES)
A	TITLE SYMBOL ON SHEET WHERE SHOWN A = IDENTIFYING NUMBER/LETTER
1	REVISION CLOUD AND REVISION NUMBER
1	SHEET NOTE CALLOUT
	GATE VALVE
	BALL VALVE
	CIRCUIT SETTER VALVE
	CHECK VALVE
	THERMOSTATIC MIXING VALVE
	PRESSURE REGULATING VALVE
	BUTTERFLY VALVE
PDI-"A"	WATER HAMMER ARRESTER & SIZE

WATER HAMMER ARRESTOR

SYMBOL	PIPE SIZE	PDI STANDARD	FIXTURE UNIT CAP.
	1/2"	A	1 TO 11
	3/4"	B	12 TO 32
	1"	C	33 TO 60
	1-1/4"	D	61 TO 113

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT

PLUMBING ABBREVIATIONS

ABBR.	DESCRIPTION
ABV	AUTOMATIC BALANCING VALVE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL
AS	ABOVE SLAB
ASTM	AMERICAN STANDARDS TESTING MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
BFP	BACKFLOW PREVENTER
BS	BELOW SLAB
BF	BELOW FLOOR
BG	BELOW GRADE
BV	BALL VALVE (SHUTOFF)
CA	COMPRESSED AIR
CD	CONDENSATE
CO	CLEANOUT
CONN	CONNECTION
CONT	CONTINUOUS
CP	CIRCULATING PUMP
CW	COLD WATER
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DW	DOMESTIC WATER
ECO	EXTERIOR CLEANOUT
ELEV	ELEVATION
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
°F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FIN	FINISH
FL	FLOOR
FPS	FEET PER SECOND
FT	FEET
FU	FIXTURE UNITS
G	NATURAL GAS
GAL	GALLON(S)
GPM	GALLONS PER MINUTE
GR	GREASE WASTE
HB	HOSE BIBB
HP	HORSEPOWER
HR	HOUR
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ
IE	INVERT ELEVATION
ID	INTERNAL DIAMETER
IN	INCHES
IPS	INTERNATIONAL PIPE STANDARD
IRR	IRRIGATION WATER
KW	KILOWATT

ABBR.	DESCRIPTION
LAV	LAVATORY
LF	LINEAR FEET
MAX	MAXIMUM
MIN	MINIMUM
MNTG	MOUNTING
MS	MOP SINK
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NSF	NATIONAL SANITATION FOUNDATION
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
ORWL	OVERFLOW RAIN WATER LEADER
PDI	PLUMBING DRAINAGE INSTITUTE
PH	PHASE
PPP	PRECISION PLUMBING PRODUCTS
PSI	POUNDS PER SQUARE INCH
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
RWL	RAIN WATER LEADER
S	SANITARY
SAN	SANITARY
SH	SHOWER
SK	SINK
SL	SODA LINE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
ST	STORM
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TET	THERMAL EXPANSION TANK
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VENT
VTR	VENT THROUGH ROOF
VIV	VALVE IN VERTICAL
VLV	VALVE
VOL	VOLUME
W	WATTS
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTOR
WHY	WALL HYDRANT
WFU	WATER SUPPLY FIXTURE UNITS

SHEET LIST

SHEET NUMBER	SHEET NAME
P-001	PLUMBING NOTES, LEGENDS, & SYMBOLS
PS101	GRAVITY PIPING PLANS
PP101	PRESSURE PIPING PLAN
P-501	PLUMBING DETAILS
P-502	PLUMBING DETAILS
P-601	PLUMBING ISOMETRICS
P-801	PLUMBING SCHEDULES

PLUMBING GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. PROVIDE COMPONENTS INDICATED IN DETAILS AND/OR RISER DIAGRAMS WHETHER OR NOT INDICATED ON PLANS AND VICE VERSA. WHERE A DISCREPANCY OR CONFLICT IS FOUND BETWEEN ONE DRAWING AND ANOTHER, OR BETWEEN A DRAWING AND APPLICABLE SPECIFICATIONS, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IN WRITTEN FORM. IN GENERAL, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS THE DISCREPANCY CONFLICTS WITH APPLICABLE CODES OR OWNER'S DESIGN STANDARDS, WHEREIN THE CODE OR OWNER'S DESIGN STANDARDS SHALL GOVERN.
2. LOCATE VALVES IN ACCESSIBLE AREAS WHERE NECESSARY. (12"X12" MIN.)
3. COORDINATE ACTUAL LOCATIONS OF MECHANICAL FLOOR DRAINS WITH FINAL EQUIPMENT LOCATIONS ON SHOP DRAWINGS.
4. VENT PIPING SHOWN IS ONLY FOR DIAGRAMMATIC PURPOSES. COORDINATE VTRS WITH HVAC AIR INTAKES.
5. PROVIDE BACKWATER VALVES FOR CONDENSATE PIPING CONNECTIONS TO STORM SEWER.
6. ROUTE WATER HEATER T&P VALVE PIPING TO BUILDING EXTERIOR WHERE POSSIBLE, ALTERNATE DISCHARGE LOCATIONS WILL BE MOP SINKS OR ADJACENT FLOOR DRAINS ONLY.
7. PROVIDE PIPE MARKER FOR ALL PIPING ABOVE THE CEILING SPACES IN ACCORDANCE WITH DIVISION 22 SPECIFICATION SECTION, "IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT".
8. LABEL VALVES ABOVE CEILINGS AND IN CONCEALED SPACES AT CEILING TILE WITH METAL CEILING TACKS INDICATING VALVE # AND TYPE OF WATER. (i.e.; BLUE= COLD WATER, LETTERING CW VLV1-001).
9. PROVIDE AND INSTALL WATER WATER HAMMER ARRESTORS IN ACCORDANCE WITH PDI-WH201 IN ALL HW AND CW SUPPLY PIPING WITH QUICK CLOSING VALVES AS REQUIRED. AIR CHAMBERS ARE NOT ACCEPTABLE SUBSTITUTIONS.
10. PROVIDE THERMAL INSULATION FOR HOT WATER AND HOT WATER RETURN PIPING IN ACCORDANCE WITH THE ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION AND PER SPECIFICATIONS.
11. PROVIDE CLEANOUTS AT THE BASE OF EACH SANITARY STACK. SIZE CLEANOUTS TO MATCH THE PIPING SERVED. SPACE FLOOR CLEANOUTS AT 100'-0" MAX. ALSO PROVIDE CLEANOUTS IN HORIZONTAL CHANGE OF DIRECTION > 45°.
12. THE MANUFACTURERS OF EQUIPMENT SHOWN ARE THE BASIS OF DESIGN AND ARE THE OWNER'S PREFERRED MANUFACTURER OF CHOICE. SEE SPECIFICATION FOR OTHER ACCEPTABLE MANUFACTURER'S.
13. FIRE CAULK AND SLEEVE PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLANS FOR RATED ASSEMBLY LOCATIONS. REFER TO ARCHITECTURAL SHEETS FOR DETAILS AND UL ASSEMBLY NUMBERS.
14. REFER TO ARCHITECTURAL SHEETS FOR FIXTURE MOUNTING.
15. COORDINATE UNDERGROUND PIPING INVERT ELEVATIONS WITH STRUCTURAL FOOTING ELEVATIONS AND CIVIL INVERT CONNECTIONS PRIOR TO ANY UNDERGROUND PIPING INSTALLATIONS. IF FOOTINGS ARE IN CONFLICT AND WHERE A PIPING ROLL DOWN IS NOT POSSIBLE, COORDINATE WITH GENERAL CONTRACTOR FOR DROPS IN FOOTING AS REQUIRED.
16. COORDINATE CEILING PIPING AND ELEVATIONS IN SHOP DRAWINGS WITH ALL OTHER TRADES (I.E. HVAC, FIRE PROTECTION, ELECTRICAL, TELECOMM, STRUCTURAL, ETC.) PRIOR TO ANY INSTALLATION TO ENSURE PROPER CLEARANCES AND PENETRATIONS.
17. SLOPE SANITARY PIPING 2-1/2" OR LESS AT 1/4" PER FOOT. SLOPE SANITARY PIPING 3" AND LARGER AT 1/8" PER FOOT.
18. VALVES AND FITTINGS SHALL BE THE SAME SIZE AS THE PIPING WHERE THEY ARE LOCATED UNLESS NOTED OTHERWISE.
19. PROVIDE ALL NECESSARY SUPPORTING DEVICES FOR FIXTURES PER MANUFACTURER INSTALLATION INSTRUCTIONS.
20. PROVIDE ALL FLOOR DRAINS, FLOOR SINKS AND HUB DRAINS WITH DEEP SEAL P-TRAPS. ALL DRAINS NOT RECEIVING CONTINUOUS DISCHARGE SHALL BE PROVIDED WITH TRAP PRIMER CONNECTIONS TO ENSURE TRAP SEAL PROTECTION.
21. ROUGH-IN WASTE AND WATER SUPPLIES FOR FIXTURES AND PERFORM FINAL CONNECTIONS PER MANUFACTURER RECOMMENDATIONS.
22. THE CONTRACTOR SHALL BASE THEIR PROPOSAL UPON THE EQUIPMENT AS SCHEDULE OR SPECIFIED, USING THE MANUFACTURERS AND MODEL NUMBERS AS CALLED FOR IN THE SPECIFICATIONS AND SCHEDULED ON THE DRAWINGS. IF MORE THAN ONE MANUFACTURE OF EQUIPMENT IS SPECIFIED, ANY ONE OF THE MANUFACTURERS OF EQUIPMENT MAY BE USED IN THIS CONTRACTOR'S PROPOSAL. IF THE CONTRACTOR WISHES TO USE EQUIPMENT NOT SPECIFIED, THEY MUST SUBMIT SEPARATELY ON LETTERHEAD STATIONARY OF THE BIDDER AT THE TIME OF BIDDING THE EQUIPMENT THEY WOULD SUBSTITUTE AND THE COST TO BE ADDED OR TO BE DEDUCTED FROM THEIR PROPOSAL.
23. COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES.
24. ALL AUTOMATIC CONTROL, PROTECTIVE OR SIGNAL DEVICES REQUIRED FOR THE OPERATION SPECIFIED, SHALL BE PROVIDED WITH ANY CONTROL WIRING AND INSTALLED PER MANUFACTURERS REQUIREMENTS.
25. PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.
26. SHOP DRAWING SUBMITTALS SHALL BE FULLY COORDINATED PRIOR TO SUBMITTAL.
27. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAINTAIN CEILING HEIGHTS AS SHOWN ON ARCHITECTURAL DRAWINGS.

APPLICABLE CODES

1. FEMA P-361 GUIDANCE FOR COMMUNITY AND RESIDENTIAL SAFE ROOMS 2015 EDITION
2. ICC 500 ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS 2020 EDITION.
3. FLORIDA BUILDING CODE: CONFORM IN STRICT COMPLIANCE TO THE FLORIDA BUILDING CODE (FBC) AND THE AMENDMENTS WHICH ARE ENFORCED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
   A. FLORIDA BUILDING CODE - PLUMBING (FPC) 2023 EDITION
   B. FLORIDA BUILDING CODE - ENERGY CONSERVATION (FECC) 2023 EDITION
4. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
5. AMERICANS WITH DISABILITIES ACT (ADA)
6. AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM)
7. APPLICABLE REGULATORY REQUIREMENTS AND ADVISORY PRACTICES OF APPROPRIATE AUTHORITIES HAVING JURISDICTION (AHJs)
8. APPLICABLE STANDARDS, REGULATIONS, AND PRACTICES OF THE OWNER

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FL License #78501

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REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY	CSC
APPROVED BY	NOK
CHECKED BY	NOK
DATE	2.6.24

TITLE

PLUMBING NOTES, LEGENDS, & SYMBOLS

PROJECT NO. 0122062

P-001

SHEET NO.

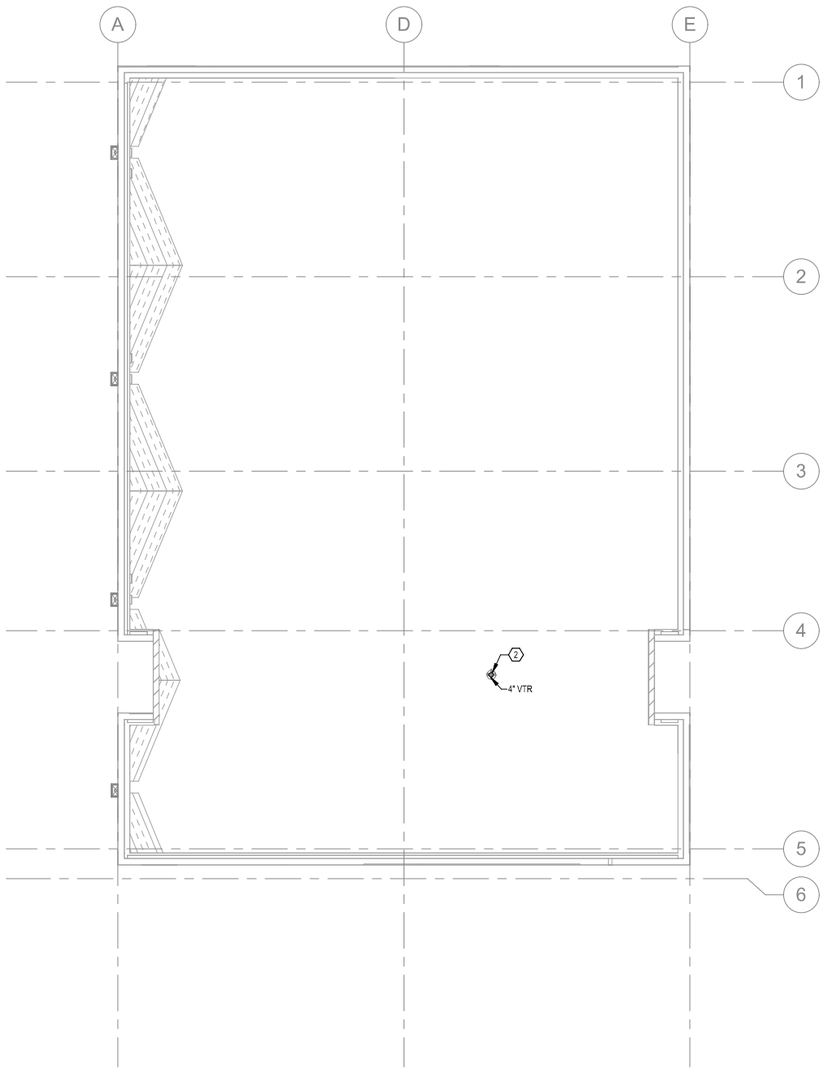
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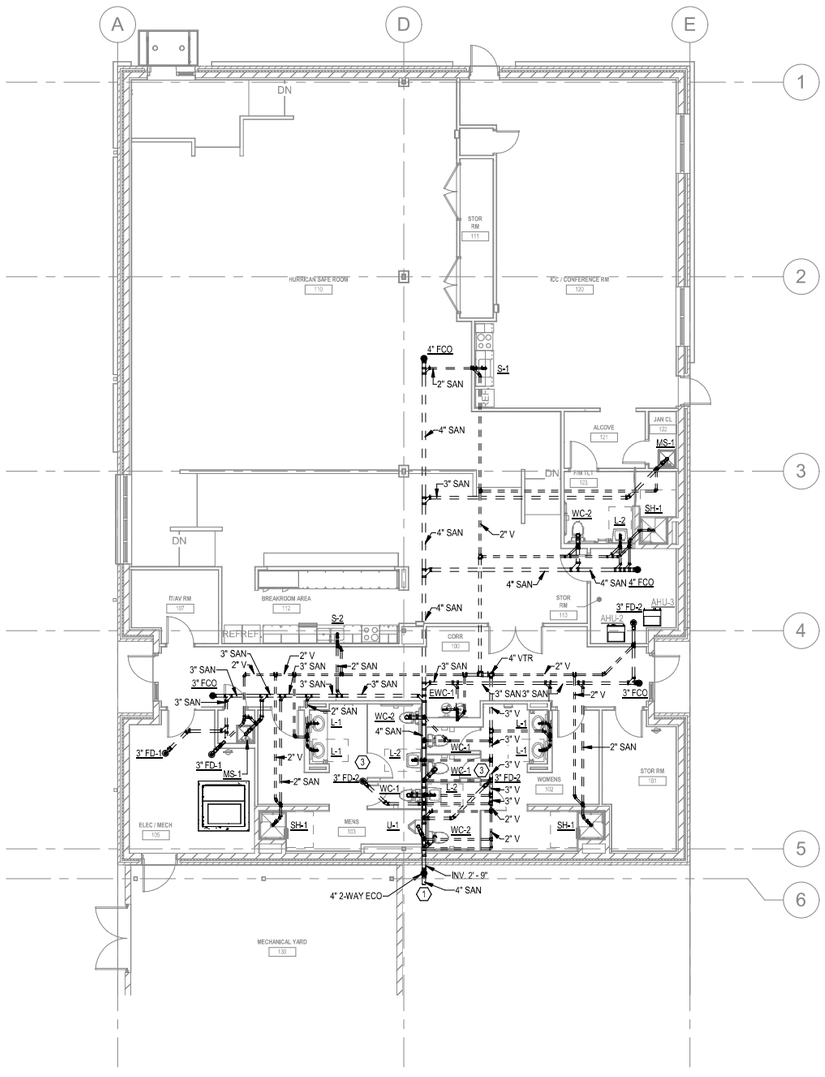
1. SLOPE ALL VENT PIPING BACK TO SANITARY MAIN.
2. REFER TO PLUMBING FIXTURE SCHEDULE FOR BRANCH PIPE SIZES.

CODED NOTES:

1. 4" SANITARY PIPNG TO SEWER MAIN, REFER TO CIVIL DRAWINGS FOR CONTINUATION, OFFSET PIPING AS REQUIRED AFTER CLEANOUT AS NECESSARY TO MATCH CIVIL INVERT.
2. PROVIDE HURRICANE RESISTANT ROOF VENT PENETRATION MEETING FEMA P-361 MISSILE IMPACT RATING, BASIS OF DESIGN: ROOF PENETRATION HOUSINGS - CVTR 2004.
3. COORDINATE EXACT FLOOR DRAIN LOCATION WITH ARCHITECTURAL PLANS.



2 PROPOSED GRAVITY PIPING ROOF PLAN
1/8" = 1'-0"



1 PROPOSED GRAVITY PIPING PLAN
1/8" = 1'-0"

N

0 4' 8' 16' 24'
1/8" = 1'-0"

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1/8" = 1'-0"

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TITLE
GRAVITY PIPING PLANS

PROJECT NO. 0122062

PS101

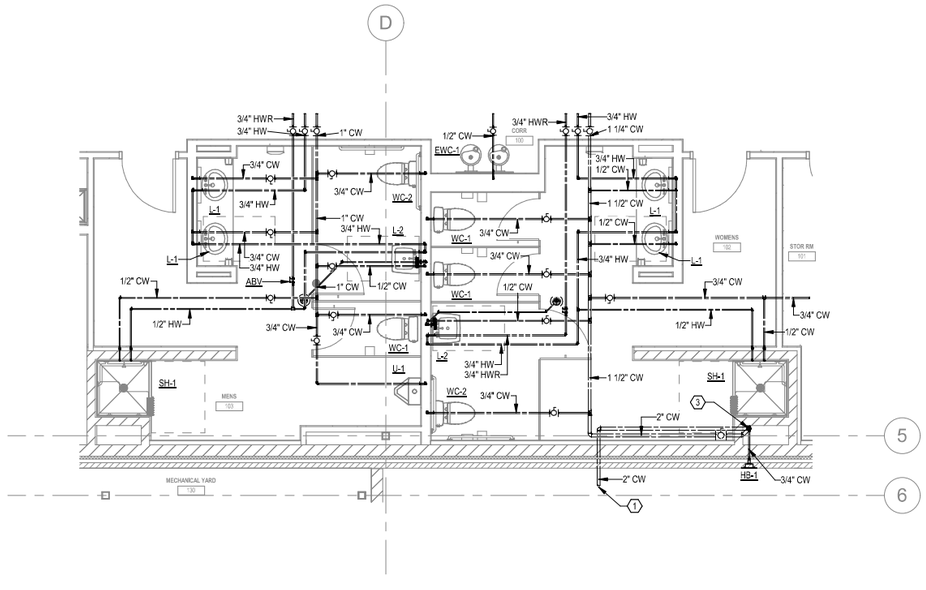
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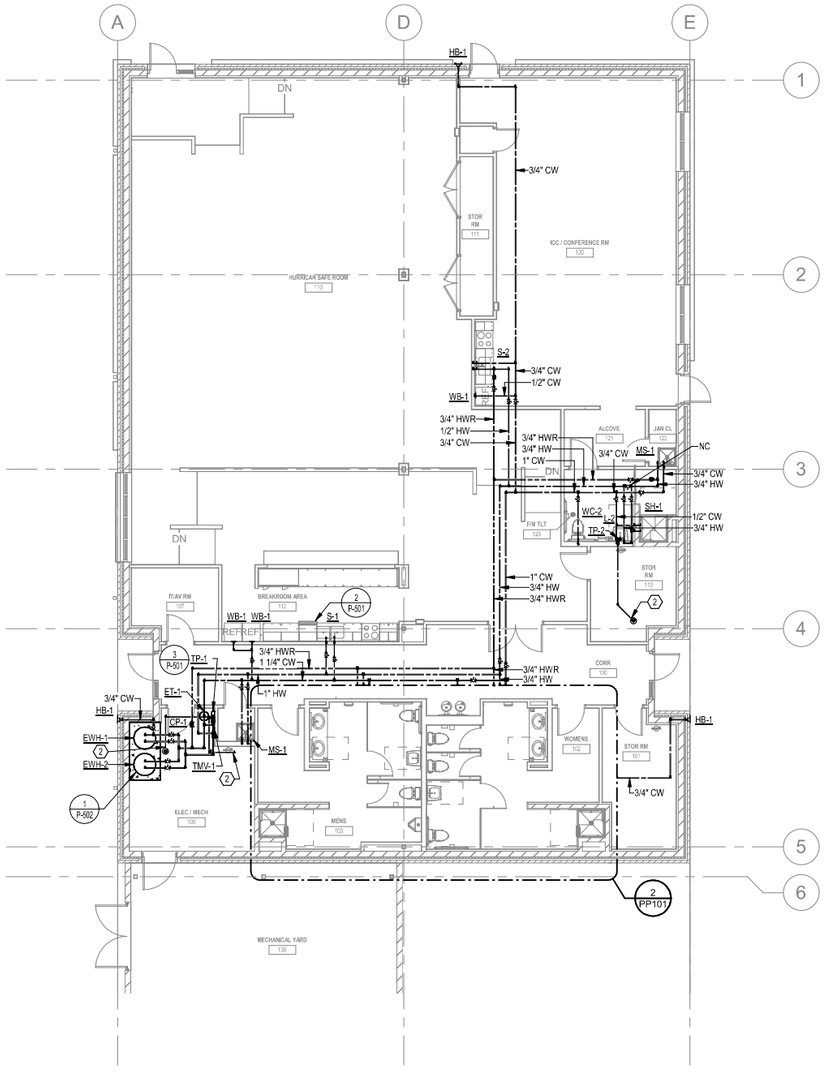
1. REFER TO PLUMBING FIXTURE SCHEDULE FOR ROUGH-IN PIPE SIZES.

CODED NOTES:

1. REFER TO CIVIL UTILITY PLAN C4 FOR CONTINUATION OF DOMESTIC WATER UTILITY SOURCE. REFER TO DETAILS ON CIVIL DETAIL PLAN CD4 FOR DETAILS ON WATER SERVICE ENTRY.
2. ROUTE 1/2" CW PIPING FROM TRAP PRIMER (TP-1) TO FLOOR DRAIN.
3. ROUTE 2" CW SERVICE LINE UNDERGROUND TO CHASE AND RISE UP ABOVE CEILING.



2 ENLARGED PRESSURE PIPING PLAN - RESTROOMS
1/4" = 1'-0"



1 PROPOSED PRESSURE PIPING PLAN
1/8" = 1'-0"

0 4' 8' 16' 24'
1/8" = 1'-0"

N

0 2' 4' 8' 12'
1/4" = 1'-0"

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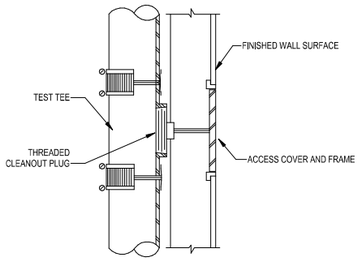
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PRESSURE PIPING PLAN

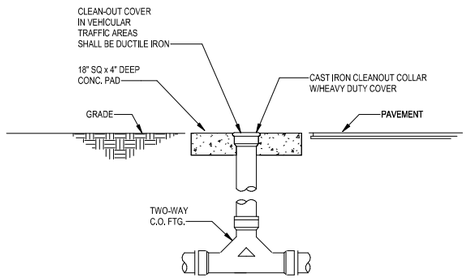
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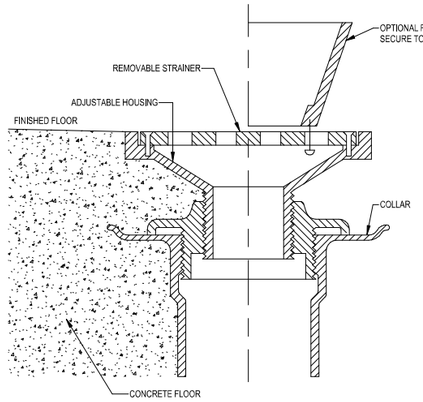
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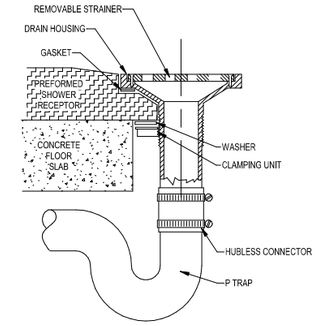
10 WALL CLEANOUT
N.T.S.



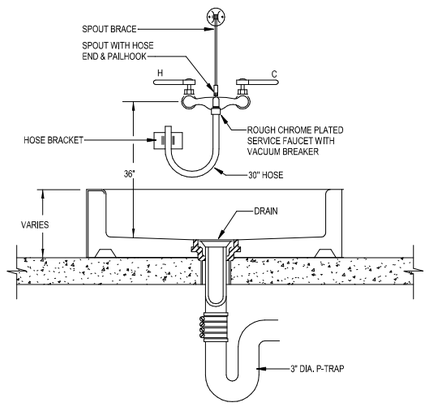
7 EXTERIOR CLEAN OUT DETAIL
N.T.S.



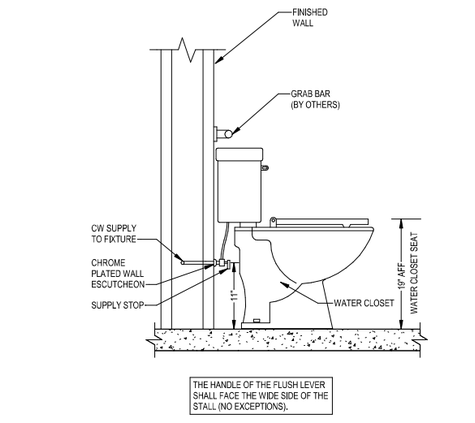
4 FLOOR DRAIN DETAIL
N.T.S.



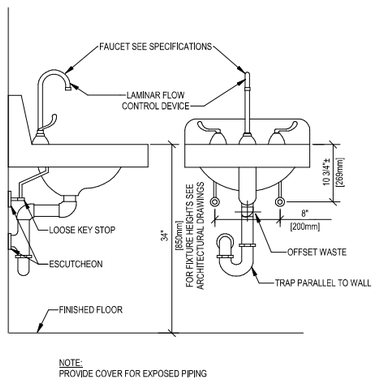
1 SHOWER DRAIN DETAIL
N.T.S.



12 MOP SINK DETAIL
N.T.S.

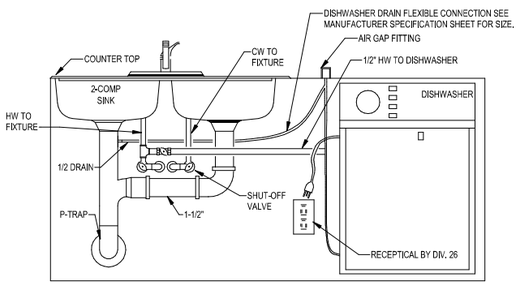


6 WATER CLOSET. TANK DETAIL
N.T.S.

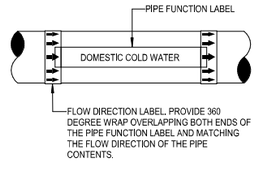


NOTE:
PROVIDE COVER FOR EXPOSED PIPING

5 TYPICAL WHEELCHAIR LAVATORY DETAIL
N.T.S.



2 DISHWASHER DETAIL
N.T.S.



DETAIL NOTES:

A. PROVIDE A PIPE LABEL FOR EACH PIPE FUNCTION.

B. PROVIDE AT LEAST ONE LABEL ON EACH PIPE FOR EVERY ROOM THE PIPE PASSES THROUGH.

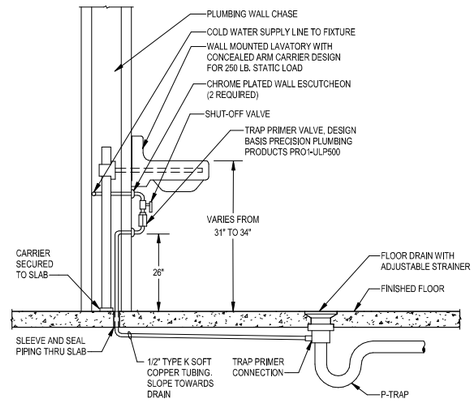
C. PROVIDE LABELS IN LARGE SPACES ON MAXIMUM 20' CENTERS FOR EVERY PIPE UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS.

D. LABELS TO BE LOCATED IN AN EASILY VISIBLE LOCATION AS THEY WOULD NORMALLY BE SEEN. IE. ON THE BOTTOM HALF OF PIPES IN THE AIR AND ON THE TOP HALF OR SIDES OF PIPES MOUNTED LOW.

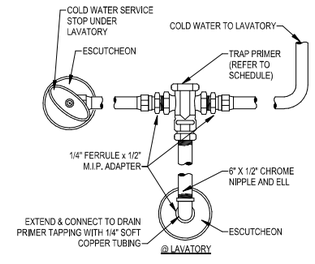
E. LABELS SHALL BE, COLOR CODED, PRE-PRINTED, SELF ADHESIVE VINYL.

F. SEE SPECIFICATION FOR OTHER REQUIREMENTS AND LIST OF PIPE FUNCTIONS.

9 PIPING IDENTIFICATION LABEL DETAIL
N.T.S.

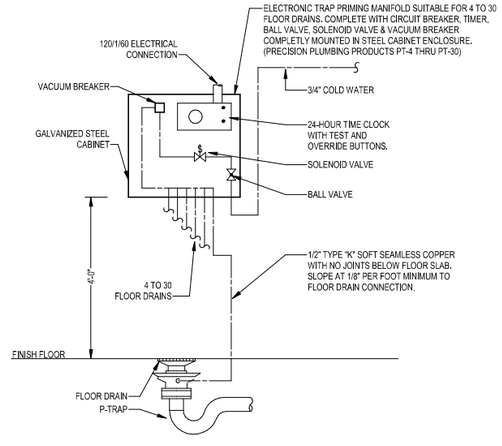


11 LAVATORY TRAP PRIMER DETAIL
N.T.S.



NOTE: ALL DRAINS OTHER THAN PARKING DRAINS IN THE BUILDING SHALL HAVE PRIMERS. DRAINS REMOTE FROM PLUMBING FIXTURES SHALL HAVE PRECISION PLUMBING MODEL P-1 OR P-2 PRIMER.

8 UNDER LAV TRAP PRIMER PIPING DETAIL
N.T.S.



3 ELECTRONIC TRAP PRIMER DETAIL
N.T.S.

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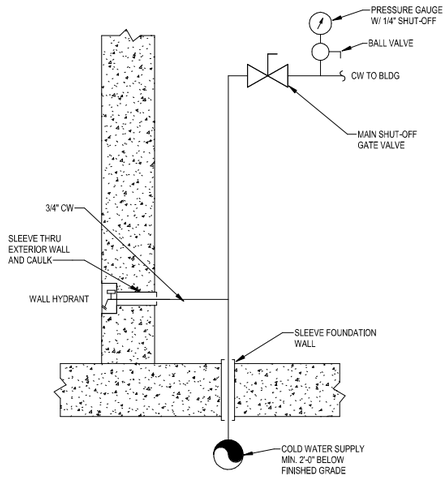
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TITLE
PLUMBING DETAILS

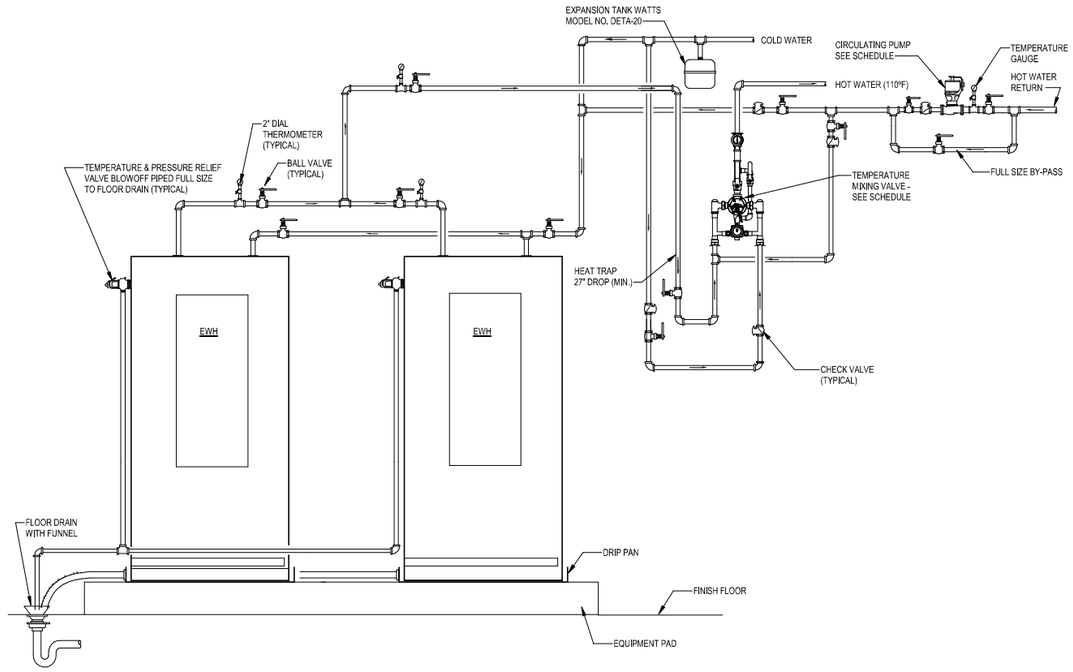
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P-501

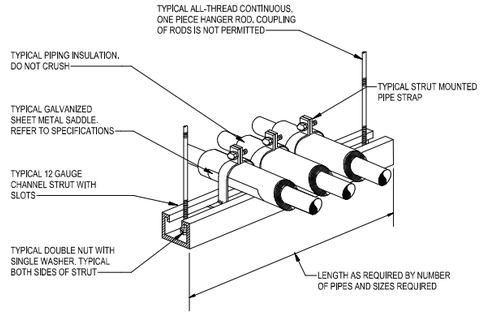
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4 DOMESTIC WATER ENTRY DETAIL
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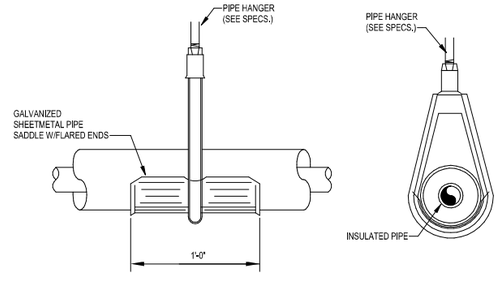


1 ELECTRIC WATER HEATER DETAIL
N.T.S.



NOTE:
1. REFER TO SPECIFICATIONS AND FLOOR PLANS FOR SPECIFIED HANGER ROD, STRUT, NUTS, WASHER, AND PIPE STRAPS SHALL BE OF GALVANIZED PLATED MATERIAL

3 TRAPEZE HANGER DETAIL
N.T.S.



2 INSULATED PIPE HANGER
N.T.S.

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TITLE
PLUMBING DETAILS

PROJECT NO. 0122062

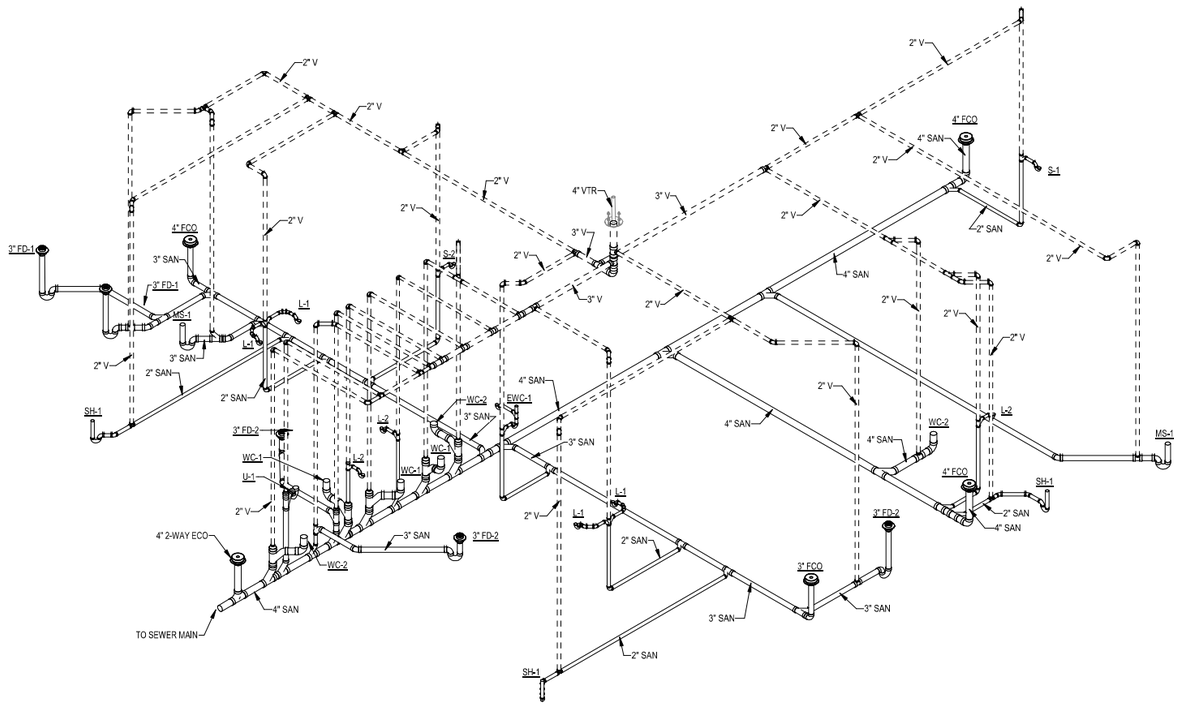
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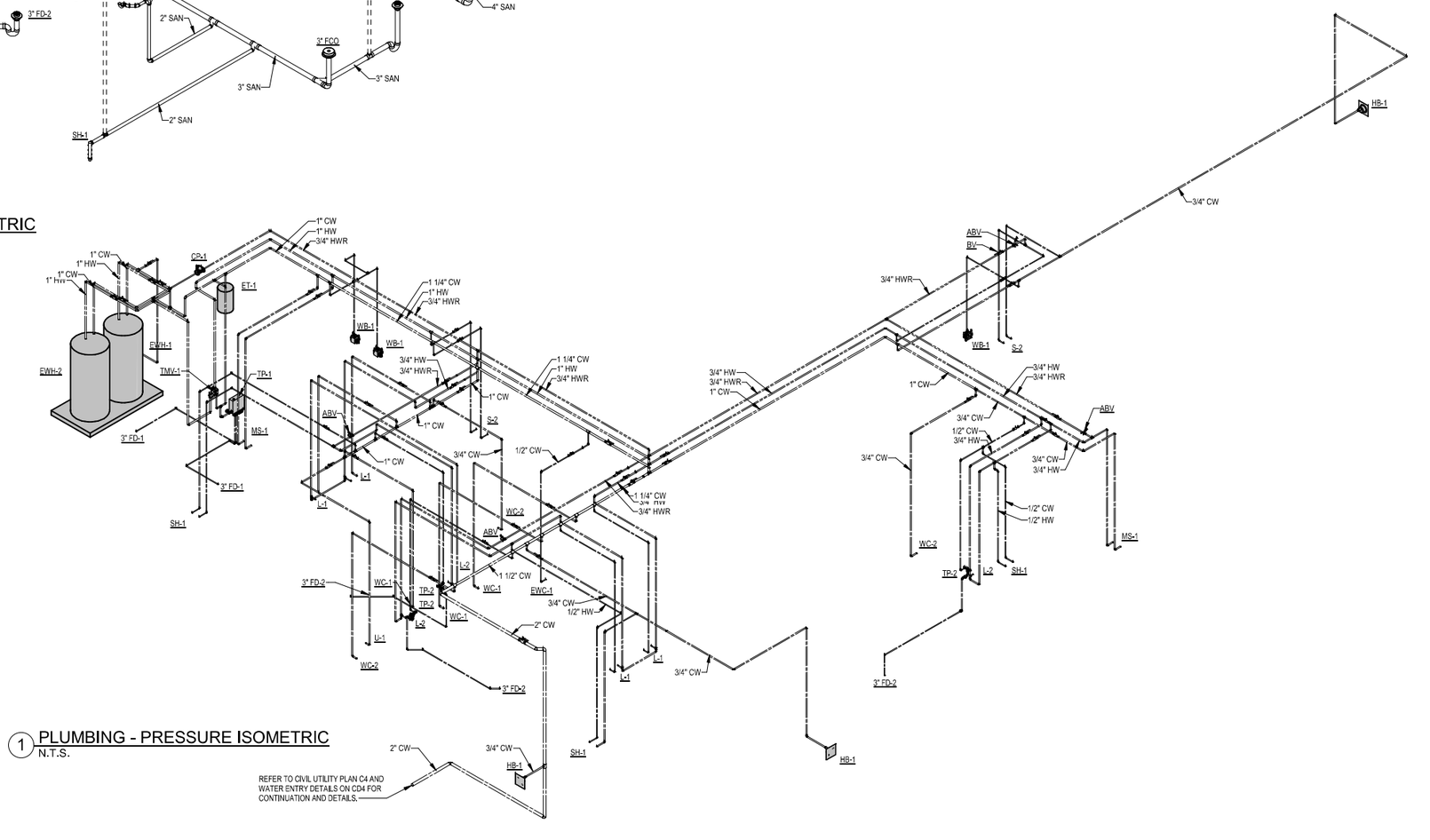
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DRAWING NOTES:

1. ISOMETRICS PROVIDED FOR REFERENCE ONLY. REFER TO FLOOR PLANS FOR MORE INFORMATION.
2. REFER TO PLUMBING FIXTURE SCHEDULE FOR ROUGH-IN PIPING SIZES.



2 PLUMBING - GRAVITY ISOMETRIC
N.T.S.



1 PLUMBING - PRESSURE ISOMETRIC
N.T.S.

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2/27/24

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SCALE

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REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY	CSC
APPROVED BY	NOK
CHECKED BY	NOK
DATE	2.6.24

TITLE

PLUMBING ISOMETRICS

PROJECT NO. 0122062

P-601

SHEET NO.

2/27/2024 2:36:15 PM

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	TYPE	MATERIAL	WASTE	VENT	CW	HW	BASIS OF DESIGN	REMARKS
WC-1	WATER CLOSET (ADA ACCESSIBLE)	FLUSH TANK FLOOR MOUNT	VITREOUS CHINA	4"	2"	3/4"	-	ZURN :Z5555-K	FLOOR MOUNTED AT ADA HEIGHT,VITREOUS CHINA, HIGH EFFICIENCY, 1.28 GPF LOW CONSUMPTION, HIGH PERFORMANCE SIPHON-JET WITH 3" FLUSH VALVE, ADA/COMFORT HEIGHT, ELONGATED FRONT RIM AND 12"STANDARD ROUGH-IN. SEAT: ZURN: Z5556SS-EL. SUPPLIES: MCGUIRE:2167CC.
WC-2	WATER CLOSET	FLUSH TANK FLOOR MOUNT	VITREOUS CHINA	4"	2"	3/4"	-	ZURN : Z5535-K	VITREOUS CHINA, HIGH EFFICIENCY, 1.28 GPF LOW CONSUMPTION, HIGH PERFORMANCE SIPHON-JET WITH 3" FLUSH VALVE, ELONGATED, AND 12" STANDARD ROUGH-IN. SEAT: ZURN: Z5956SS-EL, SUPPLIES: MCGUIRE: 2167CC.
L-1	LAVATORY - WALL HUNG (ADA ACCESSIBLE)	WALL MOUNT	VITREOUS CHINA	1-1/2"	1-1/2"	1/2"	1/2"	ZURN : Z5314	ADA ACCESSIBLE WALL HUNG 20"X18", VITREOUS CHINA, 4" CENTER FAUCETHOLES WITH OVERFLOW, DRILLED FOR CONCEALED CARRIER. FAUCET: WATTS - P1070A5, DRAIN: Z8746-PC - OFFSET WHEELCHAIR GRID DRAIN, PTRAP: Z8700-8B-PC, TRAP WRAP: Z8946-1-NT, SUPPLY: MCGUIRE 2165CC.
L-2	LAVATORY	DROP-IN	VITREOUS CHINA	1-1/2"	1-1/2"	1/2"	1/2"	ZURN : Z5114	20" X 17" VITREOUS CHINA, SELF-RIMMING, COUNTERTOP LAVATORY WITH 4" CENTER FAUCET HOLES, FRONT OVERFLOW DESIGN. WASTE: 1-1/4" O.D. FAUCET: WATTS - P1070A5, GRID DRAIN: Z8743-PC, SUPPLY: MCGUIRE 2165CC.
U-1	URINAL (ADA ACCESSIBLE)	WALL MOUNT	VITREOUS CHINA	3"	2"	1"	-	ZURN : Z5755	WALL MOUNTED VITREOUS CHINA, HIGH EFFICIENCY URINAL WITH ZURN Z6003PL-ULF FLUSH VALVE, .125GPF, 3/4" TOP SPUD, WITH VACUUM BREAKER AND CONTROL STOP. INSTALL FIXTURE PER ADA MOUNTING HEIGHT.
SH-1	SHOWER	STANDARD	-	2"	2"	3/4"	3/4"	REFER TO ARCHITECTURAL	PROVIDE SYMMONS ORIGINS SHOWER UNIT MODEL #: 9603-PLR-1.5, DRAIN: ZURN MODEL ZS415-BZ1, SET HW LIMIT STOP TO 110°F, PROVIDE SHOWER HEAD WITH 1.5 GPM MAX FLOW. COORDINATE DRAIN LOCATION AND ORIENTATION OF VALVE WITH SHOWER UNIT WITH ARCHITECTURAL.
EWC-1	ELECTRICAL WATER COOLER (ADA ACCESSIBLE)	WALL MOUNT	-	1-1/2"	2"	1/2"	-	ELKAY : LZSTL8WSSP	UNIT SHALL PROVIDE 8.0 GPH OF 50 DEGREE F. WATER AT 90 DEGREE F. AMBIENT AND 80 DEGREE F. INLET WATER. SINGLE LEVEL BARRIER-FREE STAINLESS STEEL WATER COOLER, SURFACE MOUNTED ON WALL REFRIGERATION SYSTEM AND STAINLESS STEEL GRILL, ADA ACCESSIBLE STAINLESS STEEL TUBULAR SUPPORT ARMS, ALL STAINLESS STEEL POLISHED TO LUSTROUS SATIN FINISH WITH HIGH SHINED OUTER EDGE. FLEX-GUARD SAFETY BUBBLERS, AND VANDAL-RESISTANT FRONT PUSH BUTTONS, EQUIPPED WITH ELKAY BOTTLE FILLING STATION AND FLOW REGULATOR. PROVIDE MCGUIRE P-TRAP AND SUPPLIES 8902 AND 158LK.
MS-1	MOP SINK	FLOOR MOUNT	TERRAZZO	3"	2"	3/4"	3/4"	FIAT PRODUCTS : TSB100	24"x24"x12" TERRAZZO PRECAST MOP SINK, STAINLESS-STEEL DRAIN ASSEMBLY WITH POLISHED STAINLESS-STEEL STRAINER, AND 3" IPS CONNECTION DRAIN. PROVIDE SATINLESS-STEEL CAPS ON ALL CURBS AND STAINLESS-STEEL WALL GUARDS. FAUCET: ZURN - Z843M1 W/ 3/4" HOSE THREAD OUTLET & 2-1/2" LEVER HANDLES. TERRAZZO BASIN MUST BE INSTALLED ON A 1/2" LAYER OF MORTAR ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
S-1	SINK (DOUBLE COMPARTMENT)	UNDERMOUNT	STAINLESS STEEL	2"	2"	1/2"	1/2"	ELKAY : ELUHAD361855	35-3/4" X 18-1/2" X 5-3/8" DOUBLE COMPARTMENT UNDERMOUNT, ADA, 18 GUAGE TYPE 304 STAINLESS STEEL W/ LUSTROUS SATIN FINISH, REAR CENTER DRAIN PLACEMENT. FAUCET: DELTA: 19881Z-DST. DRAIN: ELKAY : LKAD35. PTRAP: MCGUIRE: C8912CECO. SUPPLY: MCGUIRE 2165CC.
S-2	SINK (SINGLE COMPARTMENT)	UNDERMOUNT	STAINLESS STEEL	2"	2"	1/2"	1/2"	ELKAY : ELUHAD211555	23-1/2" X 18-1/4" X 5-3/8" STAINLESS STEEL, SINGLE COMPARTMENT UNDERMOUNT ADA SINK WITH REAR CENTERED PERFECT DRAIN, 18 GAUGE 304 STAINLESS STEEL WITH A LUSTROUS SATIN FINISH, REAR CENTER DRAIN PLACEMENT. FAUCET: DELTA: 19881Z-DST. DRAIN: ELKAY : LKAD35. MCGUIRE: C8912CECO. SUPPLY: MCGUIRE 2165CC.
HB-1	HOSE BIBB	WALL MOUNT	CAST IRON	-	-	3/4"	-	ZURN : Z1320	ENCASED ECOLOTROL "ANTI-SIPHON" AUTOMATIC DRAINING WALL HYDRANT FOR FLUSH INSTALLATION. COMPLETE WITH INTEGRAL BACKFLOW PREVENTER, COPPER CASING, ALL BRONZE INTERIOR PARTS AND COMBINATION 3/4" FEMALE OR 3/4" MALE THREAD INLET, STAINLESS STEEL BOXED AND HINGED COVER WITH OPERATING KEY LOCK AND "WATER" STAMPED ON COVER.
WB-1	ICE MAKER BOX W/SHUT-OFF VALVE	WALL MOUNT	-	-	-	1/2"	-	OATEY : PART NO. 37679	RECESSED PVC ICE MAKER BOX ASSEMBLY WITH TWO-PIECE 1/4" OD COMPRESSION VALVE PRE-INSTALLED.

DRAINAGE SPECIALTIES AND CONNECTIONS SCHEDULE

MARK	SPECIALTY	TYPE	MATERIAL	STYLE	SIZE	DOMESTIC CW	BASIS OF DESIGN	REMARKS
FD-1	FLOOR DRAIN (MECHANICAL ROOM)	NO HUB OR NEO-LOCK	CAST IRON/NICKEL BRONZE TOP	POLISHED ROUND TOP	PER DWGS.	1/2" TRAP PRIMER	ZURN : ZN415-BZ1-P	COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE TYPE "B" NICKEL BRONZE STRAINER, 5 7/16" ROUND TOP, TAPPED FOR TRAP PRIMER CONNECTION.
FD-2	FLOOR DRAIN (FINISHED AREA)	NO HUB OR NEO-LOCK	CAST IRON/NICKEL BRONZE TOP	POLISHED ROUND TOP	PER DWGS.	1/2" TRAP PRIMER	ZURN : ZN415-BZ1-P-VP	COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE TYPE "B" NICKEL BRONZE STRAINER, 5 7/16" ROUND TOP, TAPPED FOR TRAP PRIMER CONNECTION, VANDAL PROOF.
BWV	BACK WATER VALVE	NO HUB	CAST IRON	FLAPPER STYLE	PER DWGS.	-	ZURN : Z1090	COATED CAST IRON BODY, HUB INLET AND OFFSET SPIGOT OUTLET, BRONZE THREADED COVER, AUTOMATIC PVC FLAPPER TYPE BACKWATER VALVE WITH O-RING.

ELECTRIC WATER HEATER SCHEDULE

MARK	KW	NO. OF ELEMENTS	KW PER ELEMENT	RECOVERY (GPH) @ 70°	STORAGE (GAL.)	SIZE (D"xH")	VOLTS/PHASE/HERTZ	OPERATING WEIGHT (LBS)	BASIS OF DESIGN
EWH-1	8.0	2	4.0	45	120	29.5X62.5	208/3/60	1330	A O SMITH : DEN-120
EWH-2	8.0	2	4.0	45	120	29.5X62.5	208/3/60	1330	A O SMITH : DEN-120

NOTES:

1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
3. DISCONNECT PROVIDED BY ELECTRICAL, REFER TO ELECTRICAL DRAWINGS.
4. ROUTE T&P VALVE AND INDIRECT DISCHARGE TO FLOOR DRAIN.
5. OUTLET TEMPERATURE SHALL BE SET TO 140°F ON WATER HEATER.
6. WATER HEATER SHALL BE PLACED ON A 4" RAISED CONCRETE PAD.

HOT WATER RECIRC. PUMP SCHEDULE

MARK	TYPE	CAPACITY (GPM)	HEAD (FEET)	MOTOR (HP)	MOTOR (VOLTS/PHASE/HERTZ)	BASIS OF DESIGN
CP-1	INLINE	2.07	7.9	1/35	115/1/60	TACO : 005-SF2

NOTES:

1. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
2. RECIRC PUMP SHALL BE PIPED PER MANUFACTURER'S RECOMMENDATIONS.
3. BALANCING VALVES SHALL BE PROVIDED FOR ALL CIRCULATING SYSTEMS. VALVES SHALL BE SET TO FLOW RATES SHOWN UNLESS NOTED OTHERWISE.
4. PROVIDE AQUASTAT AQS-3/4 FOR EACH PUMP LOCATION.
5. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT.

EXPANSION TANK SCHEDULE

MARK	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	SIZE (D" x H")	CONNECTION SIZE	WEIGHT (LBS)	BASIS OF DESIGN
ET-1	8	5.3	12" x 20"	3/4"	100	WATTS : DETA-20

NOTES:

1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

TRAP PRIMER SCHEDULE

MARK	CW INLET SIZE	CW OUTLET SIZE	MAX NUMBER OF DRAINS SERVED	DIMENSIONS (L" x W" x H")	ELECTRICAL (V/P/HZ)	BASIS OF DESIGN
TP-1	3/4"	1/2"	4	16" x 14" x 3-3/8"	120/1/60	PRECISION PLUMBING PRODUCTS : PTS-4
TP-2	1/2"	1/2"	1	7" x 8-1/4" x 1"	-	PRECISION PLUMBING PRODUCTS : PRO1-IJLP500

NOTES:

1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
3. PROVIDE WITH INTEGRAL DISCONNECT.

THERMOSTATIC MIXING VALVE SCHEDULE

MARK	OUTLET TEMPERATURE	INLET/OUTLET SIZE	MIN. FLOW RATE	LOCATION	BASIS OF DESIGN
TMV-1	110°F	3/4" / 1"	1.5	ELEC/MECH 105	BRADLEY : S59-3045

NOTES:

1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE SHUTOFF VALVES ON THE INLET AND OUTLET OF THE MIXING VALVE.

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SEAL

NICHOLAS OSKAR KUGLER LICENSE No. 78501 STATE OF FLORIDA PROFESSIONAL ENGINEER
2/26/24

NICHOLAS O. KUGLER, P.E.
FL License #78501

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TITLE

PLUMBING SCHEDULES

PROJECT NO. 0122062

P-801

SHEET NO.

2/27/2024 2:36:18 PM

HVAC SYMBOL LEGEND

SYMBOL	DESCRIPTION
SD	-SMOKE DAMPER (WITH ACCESS PANEL)
FD	-FIRE DAMPER (WITH ACCESS PANEL)
MOD	-MOTOR OPERATED CONTROL DAMPER (MOD)
VD	-MANUAL BALANCING DAMPER
	-DOOR GRILLE
UC	-UNDERCUT DOOR
	-ACCESS DOORS, VERTICAL OR HORIZONTAL
	-FLEXIBLE CONNECTION
24x12	-NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN
UP DN	-CHANGE OF ELEVATION
DOWN UP	-DUCT ELBOW, SUPPLY OR OUTSIDE AIR
	-DUCT ELBOW, EXHAUST AIR
	-DUCT ELBOW, RETURN AIR
	-FLEXIBLE DUCT
	-CEILING DIFFUSER, ROUND NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)
	-CEILING RETURN
	-CEILING EXHAUST
	-CEILING DIFFUSER, RECTANGULAR OR SQUARE NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)
	-SUPPLY DIFFUSER OR GRILLE (VERTICAL MOUNT, SIDEWALL)
	-RETURN/EXHAUST REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)
CO2	-CARBON DIOXIDE SENSOR
T	-THERMOSTAT / TEMPERATURE SENSOR
H	-HUMIDISTAT / HUMIDITY SENSOR
	-DUCT SMOKE DETECTOR
H	-HUMIDITY SENSOR (DUCT MOUNTED)
CO2	-CARBON DIOXIDE SENSOR (DUCT MOUNTED)
M	-MOTORIZED CONTROL DAMPER
F	-AIRFLOW SENSOR/STATION
T	-TEMPERATURE SENSOR
SP	-STATIC PRESSURE SENSOR
BD	-BACKDRAFT DAMPER
	-CEILING MOUNTED ACCESS DOOR
EQUIPMENT / CLEARANCE	-EQUIPMENT WITH MANUFACTURER'S CLEARANCE

HVAC SYMBOL LEGEND CONT.

SYMBOL	DESCRIPTION
	-TRANSITION, CONCENTRIC
	-TRANSITION, ECCENTRIC
	-TRANSITION, SQUARE TO ROUND
	-SQUARE THROAT ELBOW W/ TURNING VANES
	-RADIUS ELBOW
	-RECTANGULAR/ROUND BRANCH TAKE-OFF OR ROUND/ROUND BRANCH TAKE-OFF
	-SQUARE THROAT TEE W/ TURNING VANES
	-RADIUS TEE
	-RECTANGLE-TO-ROUND TAKE-OFF
	-STANDARD BRANCH TAKE-OFF
	-SPIN-IN TAKE-OFF

HVAC ABBREVIATIONS

SYMBOL	DESCRIPTION
ABV	-AUTOMATIC BALANCING VALVE
ADA	-AMERICANS WITH DISABILITIES ACT
AFF	-ABOVE FINISHED FLOOR
AFR	-ABOVE FINISHED ROOF
AHU	-AIR HANDLING UNIT
AP	-ACCESS PANEL
APPROX	-APPROXIMATE
ASTM	-AMERICAN STANDARDS TESTING MATERIALS
BAS	-BUILDING AUTOMATION SYSTEM
BOP	-BOTTOM OF PIPE
BHP	-BRAKE HORSEPOWER
BFV	-BUTTERFLY VALVE
BTU	-BRITISH THERMAL UNIT
CL	-CENTER LINE
CFM	-CUBIC FEET PER MINUTE
CD	-CONDENSATE
CO	-CLEAN OUT
CT	-COOLING TOWER
CAV	-CONSTANT AIR VOLUME
CU	-CONDENSING UNIT
DB	-DRY BULB
DDC	-DIRECT DIGITAL CONTROLS
DN	-DOWN
EA	-EXHAUST AIR
EAT	-ENTERING AIR TEMPERATURE
ECC	-ENGINEERING CONTROL CENTER
EER	-ENERGY EFFICIENCY RATING
EQUIP	-EQUIPMENT
ESP	-EXTERNAL STATIC PRESSURE
ETR	-EXISTING TO REMAIN
EWT	-ENTERING WATER TEMPERATURE
EX	-EXISTING
°F	-DEGREES FAHRENHEIT
FAS	-FIRE ALARM SYSTEM
FD	-FLOOR DAMPER
FE	-FLUE EXHAUST
FLA	-FULL LOAD AMPS
FPM	-FEET PER MINUTE
FT	-FEET
GPM	-GALLONS PER MINUTE
HP	-HORSEPOWER
HR	-HOUR
HZ	-HERTZ
IPLV	-INTEGRATED PART-LOAD VALUE
IN	-INCHES
KW	-KILOWATT
LAT	-LEAVING AIR TEMPERATURE
LD	-LINEAR DIFFUSER
LWT	-LEAVING WATER TEMPERATURE

SYMBOL	DESCRIPTION
MAX	-MAXIMUM
MBH	-THOUSAND BTUs PER HOUR
MCA	-MINIMUM CIRCUIT AMPS
MIN	-MINIMUM
MOCP	-MAXIMUM OVER CURRENT PROTECTION
MOD	-MOTORIZED CONTROL DAMPER
NA	-NOT APPLICABLE
NC	-NORMALLY CLOSED
NIC	-NOT IN CONTRACT
NO	-NORMALLY OPEN
NTS	-NOT TO SCALE
OA	-OUTSIDE AIR
OAT	-OUTSIDE AIR TEMPERATURE
PH	-PHASE
PRV	-PRESSURE REDUCING VALVE
PRS	-PRESSURE REDUCING STATION
PSI	-POUNDS PER SQUARE INCH
PSIG	-PSI GAUGE
PTAC	-PACKAGED TERMINAL AIR CONDITIONER
PVC	-POLYVINYL CHLORIDE PIPE
RA	-RETURN AIR
RH	-RELATIVE HUMIDITY
RHC	-REHEAT COIL
RHP	-ROOFTOP HEAT PUMP
RPM	-REVOLUTIONS PER MINUTE
RS/L	-REFRIGERANT SUCTION & LIQUID LINES
RTU	-ROOFTOP AIR CONDITIONING UNIT
SA	-SUPPLY AIR
SF	-SQUARE FEET
SP	-STATIC PRESSURE
SPEC	-SPECIFICATION
SS	-STAINLESS STEEL
STD	-STANDARD
TA	-TRANSFER AIR
TDH	-TOTAL DYNAMIC HEAD
TEMP	-TEMPERATURE
TSP	-TOTAL STATIC PRESSURE
TYP	-TYPICAL
UL	-UNDERWRITER'S LABORATORY
U/G	-UNDERGROUND
UNO	-UNLESS NOTED OTHERWISE
V/PH	-VOTS/PHASE
VAV	-VARIABLE AIR VOLUME
VFD	-VARIABLE FREQUENCY DRIVE
VRF	-VARIABLE REFRIGERANT FLOW
W	-WATTS
W/	-WITH
WB	-WET BULB

GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS, PROVIDE COMPONENTS INDICATED IN DETAILS, RISER DIAGRAMS, CONTROL DIAGRAMS, AND/OR FLOW DIAGRAMS WHETHER OR NOT INDICATED ON PLANS AND VICE VERSA. WHERE A DISCREPANCY OR CONFLICT IS FOUND BETWEEN ONE DRAWING AND ANOTHER, OR BETWEEN A DRAWING AND APPLICABLE SPECIFICATIONS, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IN WRITTEN FORM. IN GENERAL, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS THE DISCREPANCY CONFLICTS WITH APPLICABLE CODES OR OWNER'S DESIGN STANDARDS, WHEREIN THE CODE OR OWNER'S DESIGN STANDARDS SHALL GOVERN.
2. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
3. DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST.
4. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD.
5. INSTALL ALL FIRE DAMPERS, SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS IN ACCORDANCE WITH MANUFACTURE'S INSTALLATION DIRECTIONS. PROVIDE ACCESS DOORS TO ALLOW COMPLETE INSPECTION AND MAINTENANCE OF ALL DEVICES.
6. PROVIDE 1.5R ELBOWS IN DUCTWORK AS INDICATED. IF 1.5R ELBOWS DO NOT FIT, PROVIDE 1.0R ELBOWS. IF 1.0R ELBOWS DO NOT FIT, PROVIDE 90 DEGREE RECTANGULAR DUCT ELBOWS WITH TURNING VANES.
7. DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED.
8. COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.
9. LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND HUMIDITY SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS.
10. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
11. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
12. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
13. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT.
14. TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED.
15. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT.
16. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES, UPSTREAM OF SPLIT.
17. COORDINATE SIZE REQUIREMENTS OF ALL CONCRETE HOUSEKEEPING PADS UNDER ALL FLOOR-MOUNTED EQUIPMENT. SEE STRUCTURAL DRAWINGS FOR PAD DETAILS AND SPECIFICATIONS.
18. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS AND OTHER AIR DISTRIBUTION DEVICES.
19. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO FANS, AIR HANDLING UNITS, AND FAN COIL UNITS.
20. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE CONNECTED.
21. SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS.
22. MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC., AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS. TO ALLOW FOR INSPECTIONS OF RATED WALLS.
23. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10'-0" CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS.
24. DUCT RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK.
25. UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN.

PIPING LEGEND

SYMBOL	DESCRIPTION
CD	-CONDENSATE
R	-REFRIGERANT LIQUID AND SUCTION LINES
	-BALL VALVE
	-GATE VALVE
	-CHECK VALVE
	-FLOW DIRECTION
	-FLANGES
	-UNION
	-CAP
	-QUICK-COUPLE HOSE CONNECTION
	-BOTTOM CONNECTION, 45° OR 90°
	-TOP CONNECTION, 45° OR 90°
	-SIDE CONNECTION
	-ELBOW, 90°
	-ELBOW, 45°
	-ELBOW, TURNED DOWN
	-ELBOW, TURNED UP
	-TEE, OUTLET DOWN
	-TEE, OUTLET UP
R	-45° PIPE RISE (R)/DROP (D)

CONTROLS LEGEND

SYMBOL	DESCRIPTION
	-TEMPERATURE SENSOR
	-RELATIVE HUMIDITY SENSOR
	-PUSH-BUTTON OVER-RIDE SWITCH
	-PRESSURE SENSOR
	-HARD-WIRED INTERLOCK
	-DRY CONTACT
	-STARTER
S	-DUCT SMOKE DETECTOR
	-IMMERSION TEMPERATURE TRANSMITTER W/ THERMOWELL
	-EMERGENCY PUSHBUTTON
CO2	-SPACE CARBON DIOXIDE SENSOR
R	-REFRIGERANT SENSOR
H	-SPACE HUMIDISTAT / HUMIDITY SENSOR
T	-SPACE THERMOSTAT SENSOR
P	-SPACE PRESSURE SENSOR
	-DUCT MOUNTED TEMPERATURE SENSOR
	-INDICATES AVERAGING ELEMENT SENSOR
	-INDICATES PROBE SENSOR
24VAC	-ACTUATOR W / 24VAC OR 120VAC AS INDICATED
24VAC	-TWO POSITION VALVE W / 24VAC OR 120VAC AS INDICATED

SYMBOL	DESCRIPTION
CS	-CURRENT SENSING STATUS
A	-ALARM
DPS	-DIFF. PRESSURE SWITCH DIGITAL
DPIT	-DIFF. PRESSURE INDICATING TRANSMITTER
VFD	-VARIABLE FREQUENCY DRIVE
SPS	-STATIC PRESSURE SWITCH DIGITAL
	-OPPOSED BLADE DAMPER
	-PARALLEL BLADE DAMPER
AFS-X	-AIRFLOW SENSOR
CO2-X	-CARBON DIOXIDE SENSOR
D-X	-DAMPER
DPS-X	-DIFFERENTIAL PRESSURE SENSOR
H-X	-HUMIDITY TRANSMITTER
HOA	-HAND SWITCH (HAND-OFF-AUTO SWITCH)
IT-X	-CURRENT TRANSMITTER
LC-X	-LEVEL CONTROLLER
LT-X	-LEVEL TRANSMITTER
PT-X	-PRESSURE TRANSMITTER
PDT-X	-PRESSURE DIFFERENTIAL TRANSMITTER
SPS-X	-STATIC PRESSURE SWITCH
TT-X	-TEMPERATURE TRANSMITTER
TS-X	-TEMPERATURE SWITCH (FREEZESTAT)

APPLICABLE CODES

1. FEMA P-361 GUIDANCE FOR COMMUNITY AND RESIDENTIAL SAFE ROOMS 2015 EDITION
2. ICC 500 ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS 2020 EDITION
3. FLORIDA BUILDING CODE: CONFORM IN STRICT COMPLIANCE TO THE FLORIDA BUILDING CODE (FBC) AND THE AMENDMENTS WHICH ARE ENFORCED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
   A. FLORIDA BUILDING CODE - MECHANICAL (FMC) 2023 EDITION
   B. FLORIDA BUILDING CODE - PLUMBING (FPC) 2023 EDITION
   C. FLORIDA BUILDING CODE - ENERGY CONSERVATION (FECC) 2023 EDITION
4. FLORIDA FIRE MARSHALL'S RULE CHAPTER 69A-3,012
5. FLORIDA ADMINISTRATIVE CODE RULE CHAPTER 69A-60
6. AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS (ASHRAE):
   A. VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY (ASHRAE 62.1) 2019 EDITION
7. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), INCLUDING (BUT NOT LIMITED TO):
   A. NATIONAL ELECTRICAL CODE (NFPA 70 - NEC) 2020 EDITION
   B. NATIONAL FIRE ALARM CODE (NFPA 72) 2019 EDITION
   C. STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS (NFPA 90A) 2021 EDITION
   D. STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS (NFPA 90B) 2021 EDITION
   E. STANDARD FOR SMOKE CONTROL SYSTEMS (NFPA 92) 2018 EDITION
   F. LIFE SAFETY CODE (NFPA 101) 2021 EDITION
   G. FLORIDA NOTIFICATION: COMPLY WITH ALL OF THE REQUIREMENTS OF THE FEDERAL "RIGHT-TO-KNOW" REGULATIONS AND THE FLORIDA "RIGHT-TO-KNOW" LAW AND PROVIDE NOTIFICATION TO ALL PARTIES CONCERNED AS TO THE USE OF TOXIC SUBSTANCES.
8. SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA)
9. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
10. AMERICANS WITH DISABILITIES ACT (ADA)
11. AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM)
12. AIR MOVEMENT AND CONTROL ASSOCIATION (AMCA)
13. APPLICABLE REGULATORY REQUIREMENTS AND ADVISORY PRACTICES OF APPROPRIATE AUTHORITIES HAVING JURISDICTION (AHJs)

DRAWING SYMBOLS

- -NEW (HEAVY, SOLID LINE)
- 1 -REVISION REFERENCE
- 1 -SHEET NOTE CALLOUT
- 1 / H1 -VIEW NUMBER / SHEET NUMBER
- A / H1 -SECTION LETTER / DRAWING NUMBER WHERE SHOWN
- AHU-1 -EQUIPMENT ABBREVIATION. / AHU NUMBER / TYPICAL UNIT NUMBER; AHU NO. 1
- A 200 -DEVICE MARK / DEVICE FLOW RATE (CFM) / TYPICAL AIR DISTRIBUTION DEVICE TAG
- 12X10 SA -DUCT DIMENSION (INCHES) / SYSTEM TYPE (SA = SUPPLY AIR, RA = RETURN AIR, OA = OUTSIDE AIR, EA = EXHAUST AIR) / TYPICAL DUCTWORK TAG

SHEET LIST

SHEET NUMBER	SHEET NAME
M-001	MECHANICAL NOTES, LEGENDS, & SYMBOLS
M-101	MECHANICAL PLANS
M-401	MECHANICAL ENLARGED PLANS
M-501	MECHANICAL DETAILS
M-502	MECHANICAL DETAILS
M-601	MECHANICAL AIRFLOW DIAGRAMS
M-701	MECHANICAL CONTROLS
M-801	MECHANICAL SCHEDULES

NOTE: SOME SYMBOLS SHOWN MAY NOT PERTAIN TO THIS PROJECT

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2/26/24

NICHOLAS O. KUGLER, P.E.
FL License #78501

SCALE

NOT TO SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY	AJZ
APPROVED BY	NOK
CHECKED BY	NOK
DATE	2.6.24

TITLE

MECHANICAL NOTES, LEGENDS, & SYMBOLS

PROJECT NO. 0122062

M-001

SHEET NO.

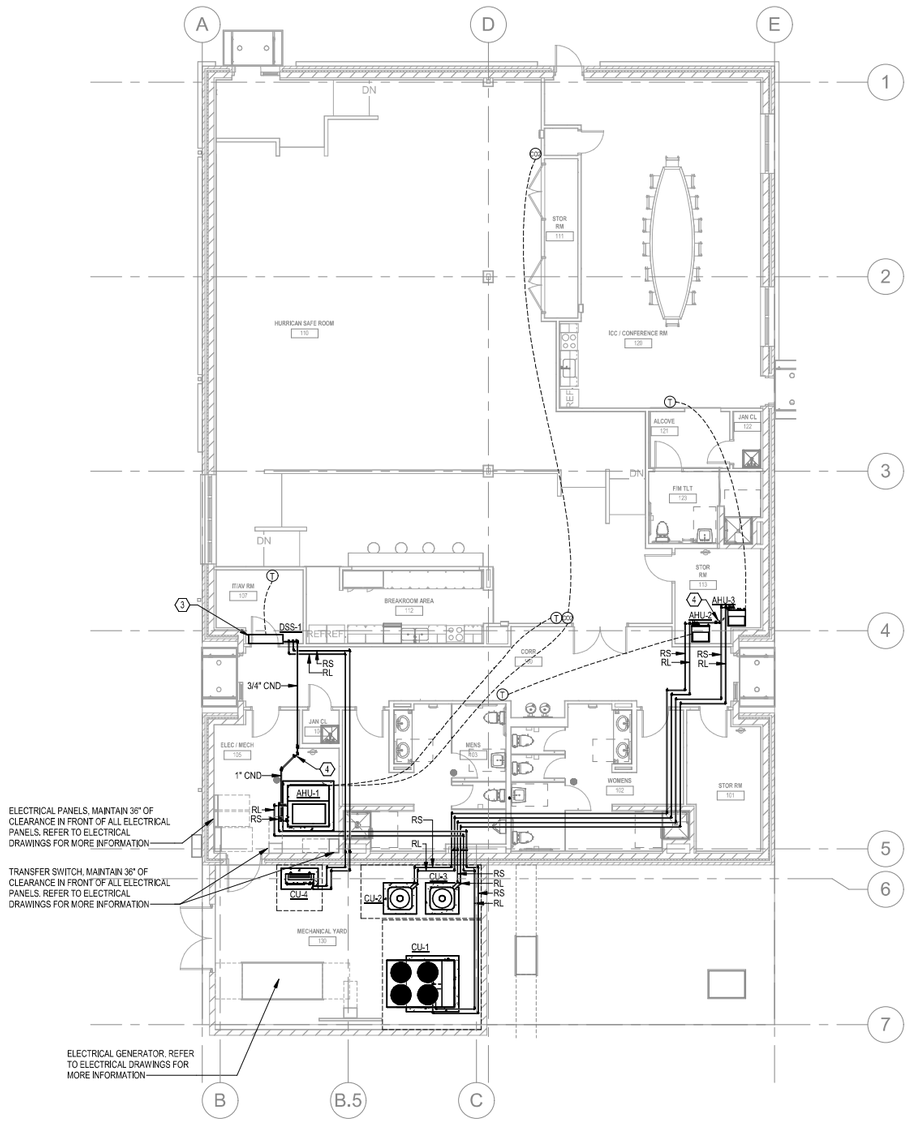
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DRAWING NOTES:

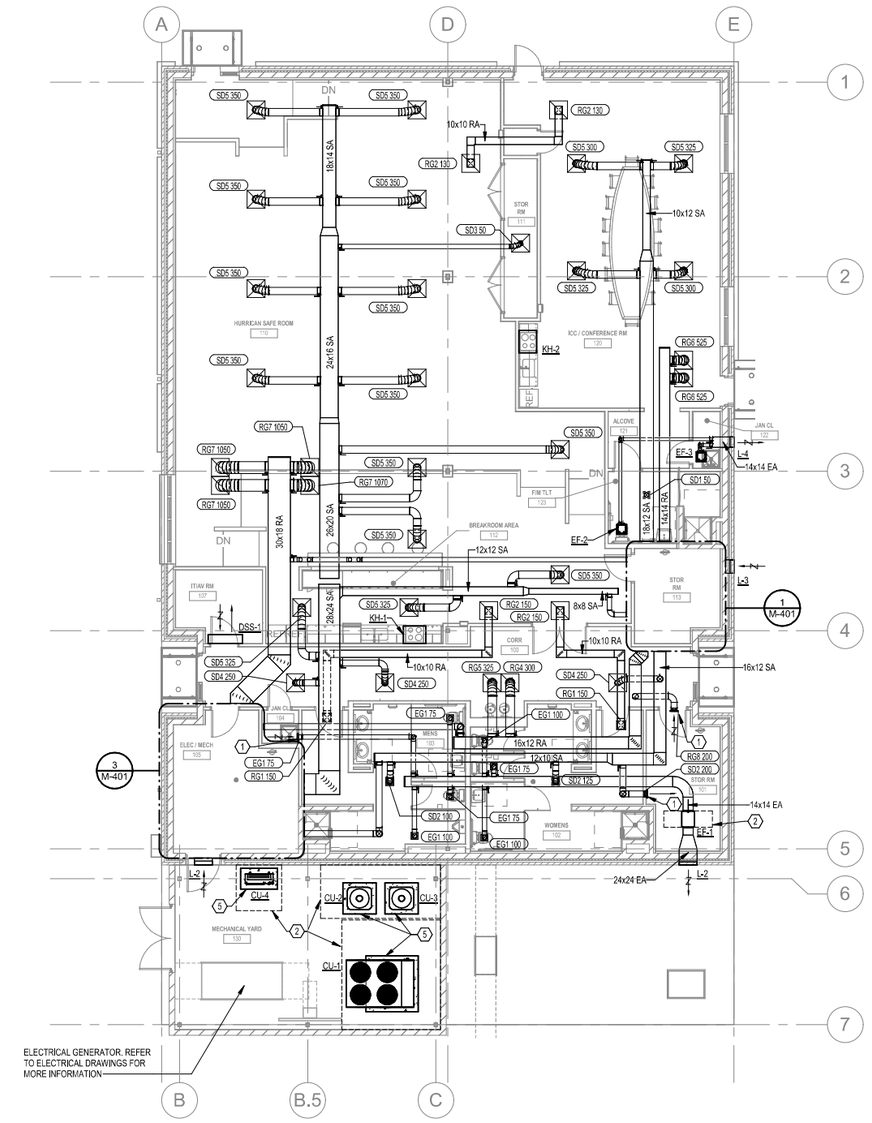
1. EQUIPMENT SHALL NOT BE MOUNTED TO THE ROOF.

CODED NOTES:

1. INSTALL BOTTOM OF REGISTER/GRILLE A MINIMUM OF 9' - 6" AFF.
2. MANUFACTURERS RECOMENDED CLEARANCE.
3. INSTALL BOTTOM OF SPLIT SYSTEM A MINIMUM OF 9' - 0" AFF. PROVIDE A 24V CONDENSATE PUMP WIRED TO UNIT, ROUTE CONDENSATE TO DISPOSAL POINT IN ELEC/MECH 103. COORDINATE FINAL DRAIN LOCATION WITH PLUMBING CONTRACTOR.
4. (2) CONDENSATE PIPES DN TO FLOOR DRAIN. COORDINATE FINAL DRAIN LOCATION WITH PLUMBING CONTRACTOR.
5. MECHANICAL EQUIPMENT MOUNTED ON A 4" THICK CONCRETE PAD. CONCRETE PAD TO EXTEND 6" BEYOND THE PERIMETER OF MECHANICAL EQUIPMENT.



2 PROPOSED MECHANICAL PIPING PLAN
1/8" = 1'-0"



1 PROPOSED MECHANICAL DUCTWORK PLAN
1/8" = 1'-0"

N

0 4' 8' 16' 24'

1/8" = 1'-0"

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1/8" = 1'-0"

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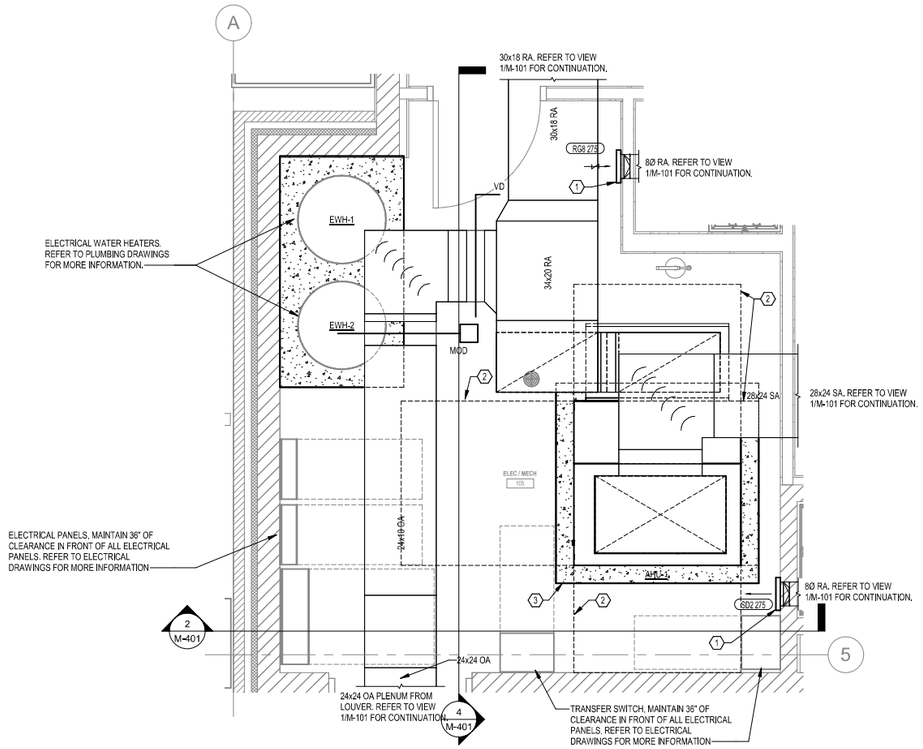
TITLE
MECHANICAL PLANS

PROJECT NO. 0122062

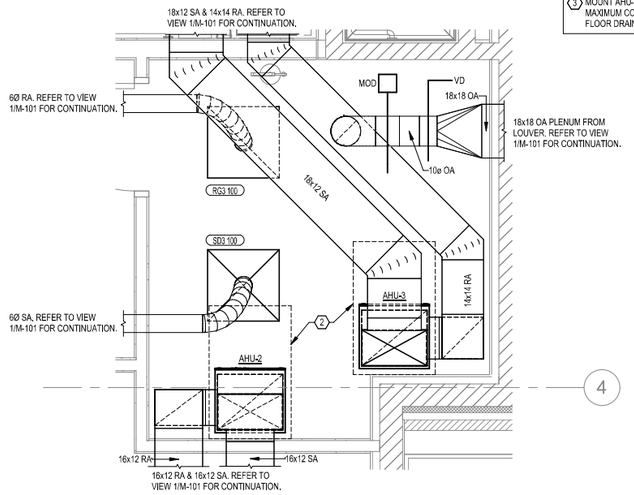
M-101

SHEET NO.

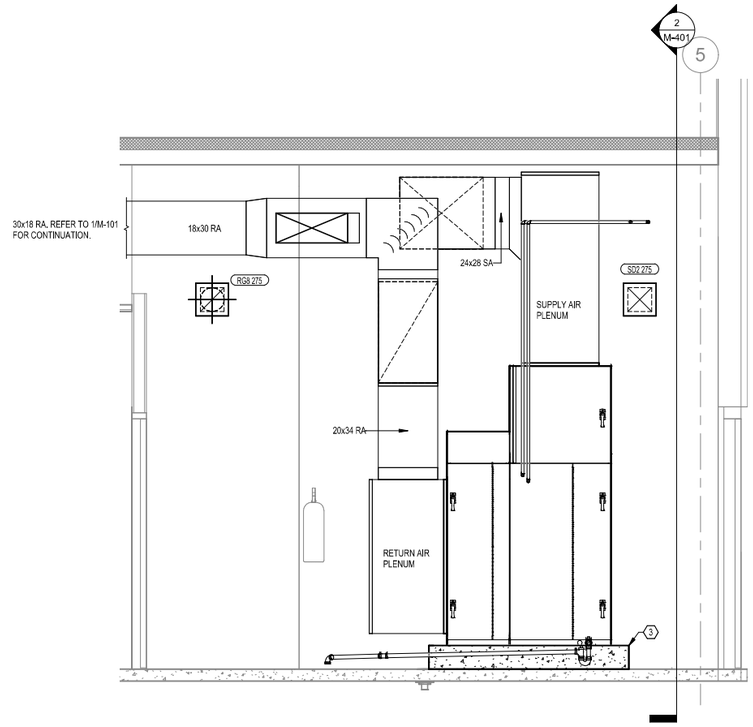
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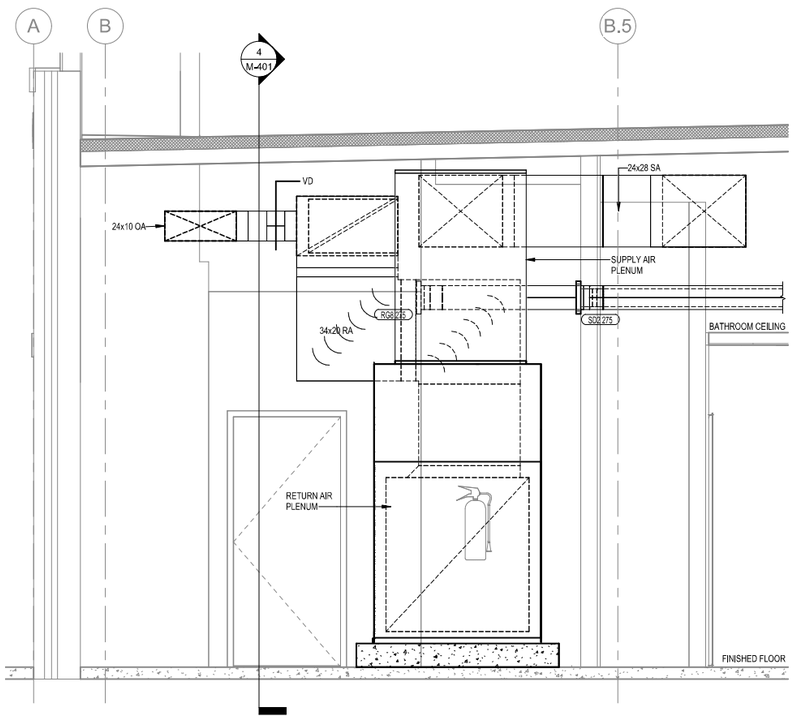
3 ENLARGED ELEC/MECH 105 DUCTWORK PLAN
1/2" = 1'-0"



1 ENLARGED STOR RM 113 DUCTWORK PLAN
1/2" = 1'-0"



4 ELEC/MECH 105 - NORTH & SOUTH - MECHANICAL SECTION
1/2" = 1'-0"



2 ELEC/MECH 105 - WEST & EAST - MECHANICAL SECTION
1/2" = 1'-0"

N

0 1' 2' 4' 6'
1/2" = 1'-0"

2/27/2024 2:34:30 PM

DRAWING NOTES:

1. EQUIPMENT SHALL NOT BE MOUNTED TO THE ROOF.

CODED NOTES:

1. INSTALL BOTTOM OF GRILLE A MINIMUM OF 9' - 6" AFF.
2. MANUFACTURERS RECOMENDED CLEARANCE.
3. MOUNT AHU-1 TO SUPPORT STAND OR CONCRETE PAD, COORDINATE MINIMUM STAND HEIGHT OR MAXIMUM CONCRETE PAD HEIGHT WITH CONDENSATE DRAIN HEIGHT. CONDENSATE DRAIN TO SLOPE TO FLOOR DRAIN AT 1/4" PER 1'. REFER TO DETAILS.

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SCALE

1/2" = 1'-0"

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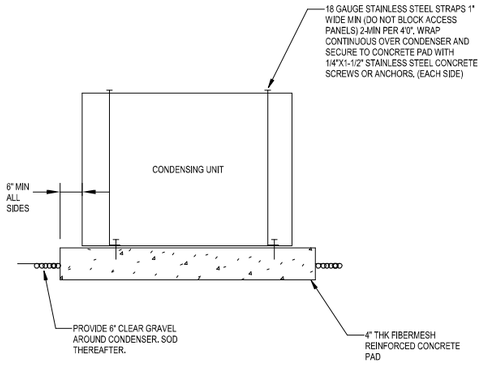
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MECHANICAL ENLARGED PLANS

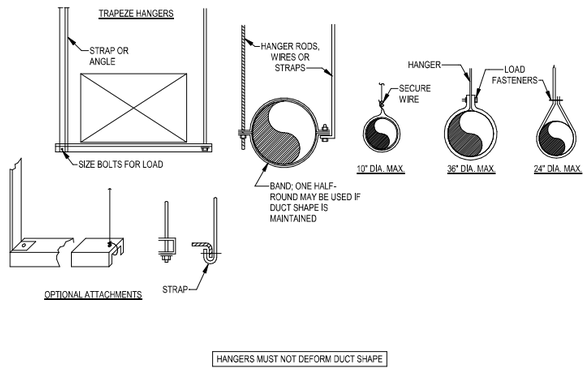
PROJECT NO. 0122062

M-401

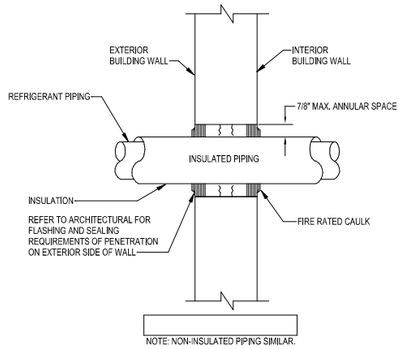
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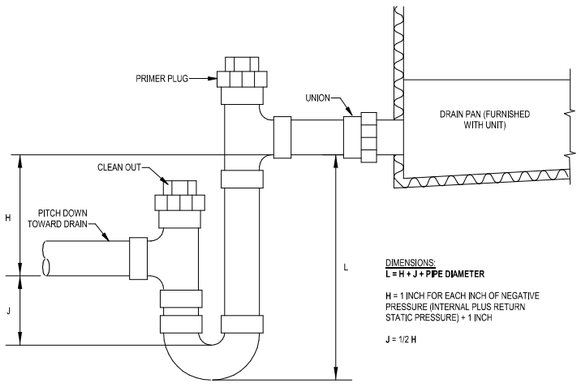
7 CU MOUNTED ON GRADE
N.T.S.



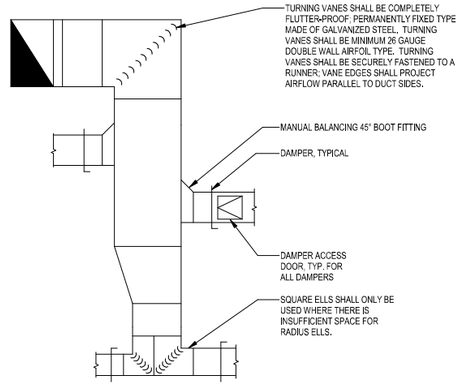
4 DUCT SUPPORTS - RECT. & ROUND DETAIL
N.T.S.



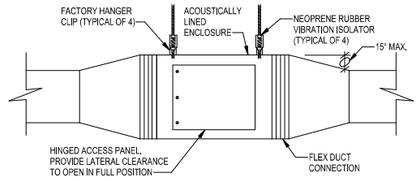
1 PIPING PENETRATION DETAIL
N.T.S.



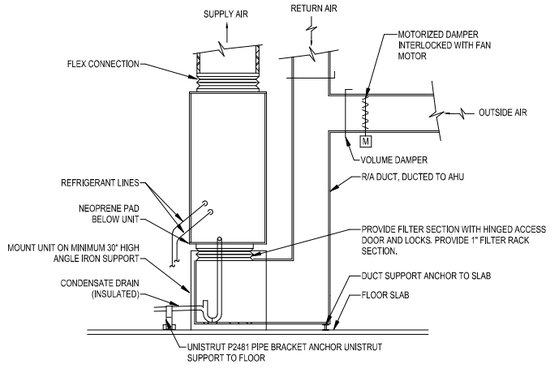
8 CONDENSATE DRAIN TRAP DETAIL
N.T.S.



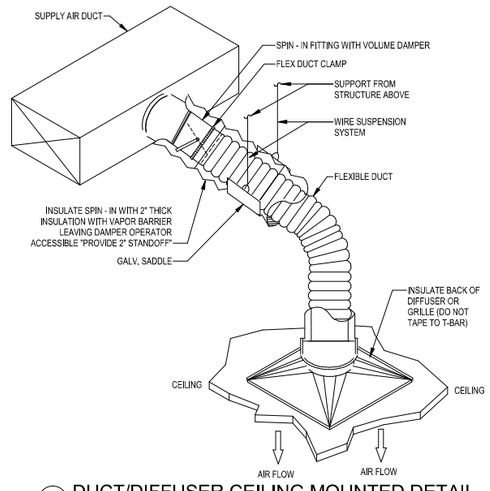
5 LOW PRESSURE DUCTWORK DETAIL
N.T.S.



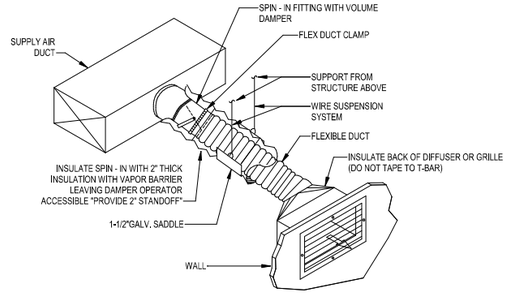
2 INLINE CENTRIFUGAL EXHAUST FAN DETAIL
N.T.S.



9 AHU INSTALLATION FOR VERTICAL DRAW THRU UNITS
N.T.S.



6 DUCT/DIFFUSER CEILING MOUNTED DETAIL
N.T.S.



3 DUCT/DIFFUSER SIDEWALL DETAIL
N.T.S.

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TITLE

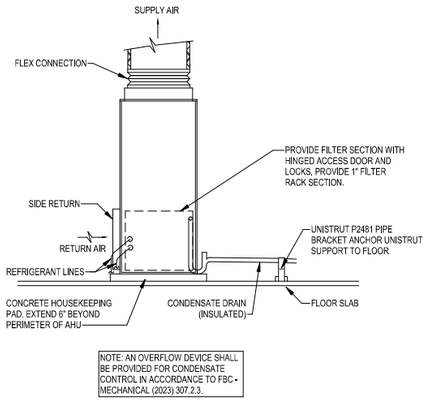
MECHANICAL DETAILS

PROJECT NO. 0122062

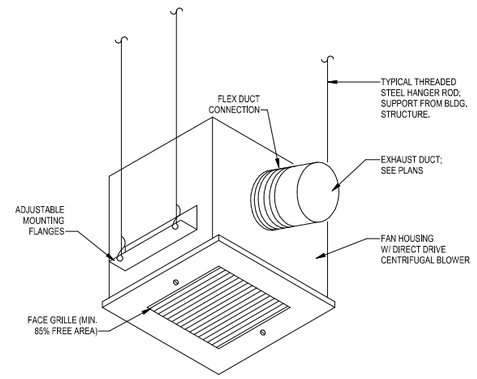
M-501

SHEET NO.

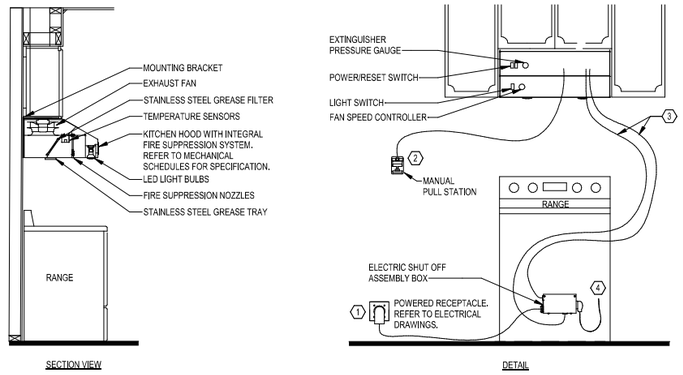
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6 AHU MOUNTED ON CONCRETE PAD DETAIL
N.T.S.



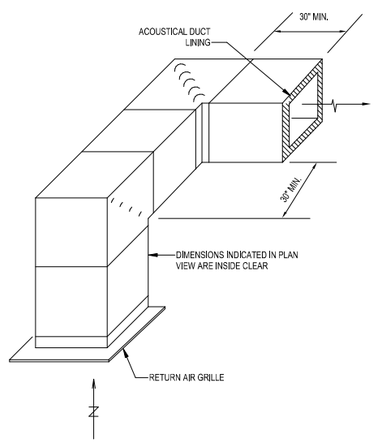
3 CABINET EXHAUST FAN MOUNTING
N.T.S.



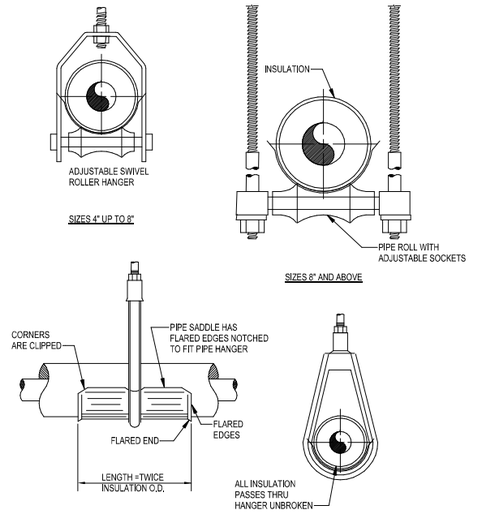
NOTES:

1. CONNECT ELECTRIC SHUT OFF ASSEMBLY BOX POWER CORD TO RECEPTACLE. REFER TO ELECTRICAL DRAWINGS.
2. CONNECT CABLE TO MANUAL PULL STATION VIA QUICK CONNECTOR IN STATION J-BOX.
3. CONNECT DISCONNECT TWO DISCONNECT CABLES FROM HOOD TO ELECTRIC SHUT OFF ASSEMBLY BOX.
4. CONNECT RANGE POWER CORD INTO RECEPTACLE ON ELECTRIC SHUT OFF ASSEMBLY BOX.

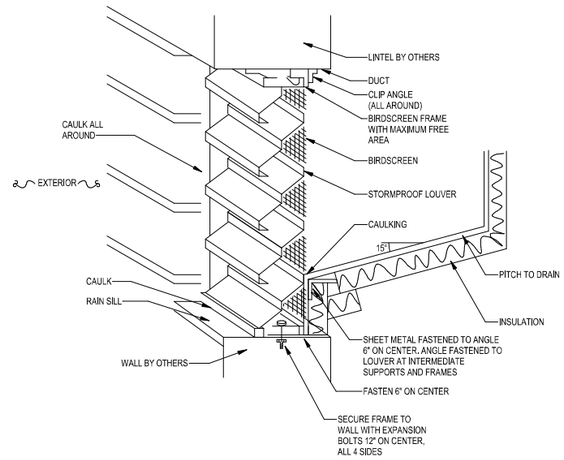
4 RANGE HOOD DETAIL
N.T.S.



5 DUCT TRANSFER DETAIL
NTS



1 INSULATED PIPE HANGER DETAIL
N.T.S.



NOTE: SUPPORT PLENUM FROM FLOOR OR STRUCTURE ABOVE WITH GALVANIZED STEEL ANGLES AND CHANNELS

2 WALL LOUVER/PLENUM DETAIL
N.T.S.

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DATE	2.6.24

TITLE

MECHANICAL DETAILS

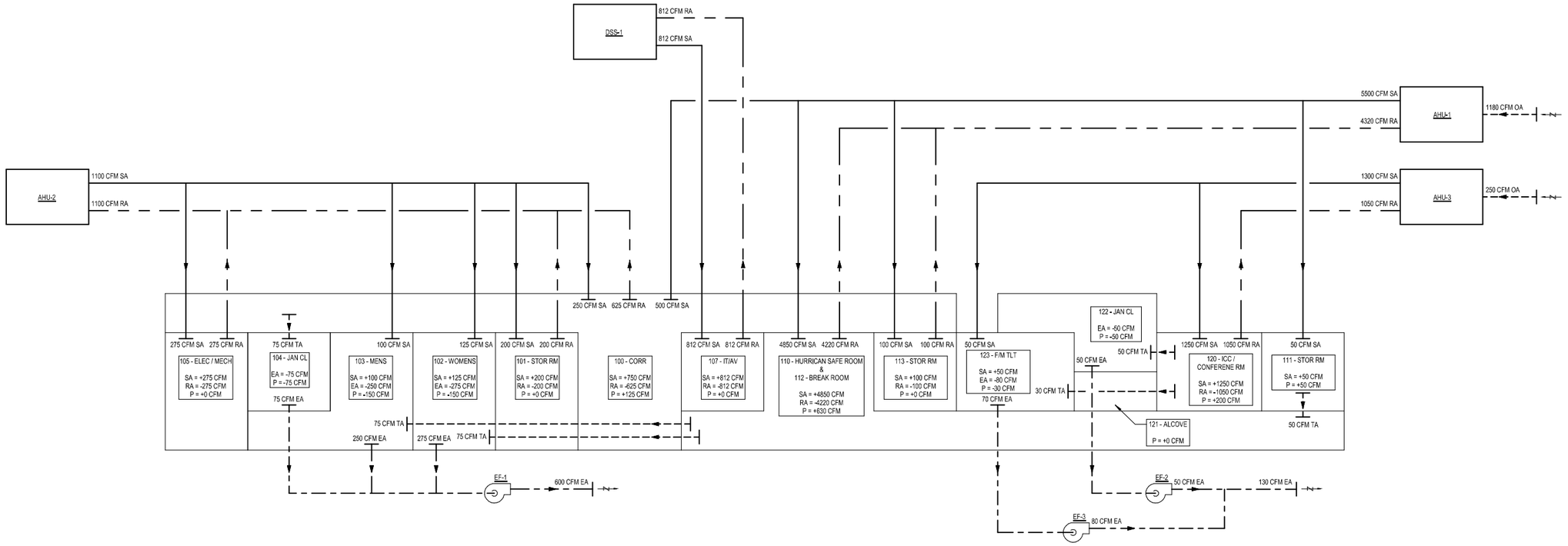
PROJECT NO. 0122062

M-502

SHEET NO.

2/27/2024 2:34:33 PM

KEY	AIR FLOW
———	SA (SUPPLY AIR)
— — — —	RA (RETURN AIR)
— - — - — - —	EA (EXHAUST AIR)
- - - - - - - - - -	TA (TRANSFER AIR)



1 AIRFLOW SCHEMATIC
N.T.S.

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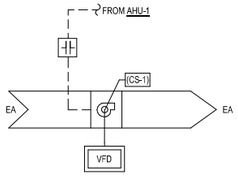
MECHANICAL AIRFLOW DIAGRAMS

PROJECT NO. 0122062

M-601

SHEET NO.

2/27/2024 2:34:33 PM



SEQUENCE OF OPERATION

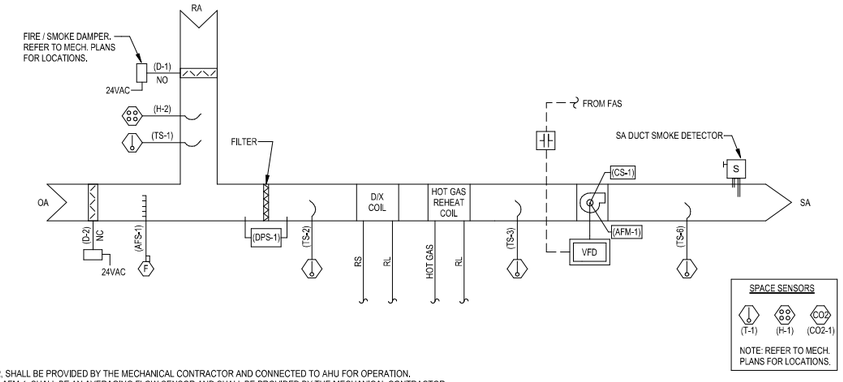
GENERAL:
1. THE EXHAUST FAN SERVES AS GENERAL EXHAUST AND IS COMPRISED WITH AN EXHAUST AIRFLOW PATH, A FACTORY PROVIDED GRAVITY BACKDRAFT DAMPER, AND AN ELLECTRONICALLY COMMUNICATED MOTOR (ECM).
2. OCCUPIED: FAN SHALL MAINTAIN CONSTANT SCHEDULED AIRFLOW AIR ALL TIMES.
3. UNOCCUPIED: FAN SHALL BE DE-ENERGIZED.

STARTUP/SHUTDOWN:
1. FAN SHALL BE INTERLOCKED WITH THE ASSOCIATED AIR HANDLER. FAN SHALL BE INTERLOCKED WITH THE ASSOCIATED AIR HANDLER, UPON SHUTDOWN OF ASSOCIATED AIR HANDLER, EXHAUST FAN SHALL DE-ENERGIZE. EXHAUST FAN SHALL ENERGIZE UPON START-UP OF ASSOCIATED AIR HANDLER. ALARM SHALL BE SENT TO ASSOCIATED AIR HANDLER CONTROLLER UPON FAILURE OF FAN.

INPUT/OUTPUT SUMMARY

SYSTEM		ANALOG INPUT							ANALOG OUTPUT		DIGITAL INPUT					DIGITAL OUTPUT				SYSTEM FEATURES ALARMS					SYSTEM FEATURES PROGRAMS				REMARKS
EXHAUST FAN	COMMUNICATION/ DATA INTERFACE	DIFF. PRESSURE	STATIC PRESSURE	FREQUENCY	FLOW RATE	SPEED	REAL TIME EFFICIENCY	SETPOINT ADJUSTMENT	DAMPER ACTUATOR	DIFF. PRESSURE SWITCH	STATUS	SPEED SWITCH	CURRENT RELAY	FLOW SWITCH	ON-OFF	DAMPER ACTUATOR	SPEED SIGNAL	PROOF	COMMUNICATION FAILURE	DIRTY FILTER	HIGH-LOW VALUE	HIGH/LOW PRESSURE	TIME SCHEDULE / TREND	RESET	RUN TIME	GRAPHIC	
FAN													●		●												CS-1

2 EF-1 CONTROL DIAGRAM
N.T.S.



NOTES:
1. DAMPERS, D-1 & D-2, SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND CONNECTED TO AHU FOR OPERATION.
2. AIRFLOW MONITOR, AFM-1, SHALL BE AN AVERAGING FLOW SENSOR AND SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND CONNECTED TO AHU FOR OPERATION.
3. AIRFLOW MONITOR, AFM-2, SHALL BE PIEZOMETER RINGS AND SHALL BE INSTALLED BY AHU MANUFACTURER.

SEQUENCE OF OPERATION

GENERAL:
1. THE SINGLE-ZONE VARIABLE AIR VOLUME AIR HANDLING UNIT UNIT SHALL BE AVAILABLE FOR OPERATION AT ALL TIMES, BUT IN GENERAL, THE UNIT SHALL RUN 24/7 TO MAINTAIN TEMPERATURE, HUMIDITY, AND VENTILATION CONDITIONS IN THE SPACE. UNIT SHALL BE NORMALLY STARTED AND STOPPED AT THE UNIT THERMOSTAT AND BUILDING OCCUPANCY SENSORS.
2. ALL CONTROLS SHALL BE AUTOMATIC AND ALL SETPOINTS SHALL BE ADJUSTABLE.

SYSTEM START / STOP:
1. THE AHU SHALL START WHEN THE SCHEDULE AND THE OCCUPANCY SENSOR INDICATE THE SPACE IS OCCUPIED. THE UNIT WILL SEND A SIGNAL TO THE ASSOCIATED EXHAUST FANS TO START. AFTER A 2 MINUTE (ADJUSTABLE) TIME DELAY, THE AHU SUPPLY FAN SHALL START AND ALL SAFETIES AND INTERLOCKS SHALL OPERATE THROUGH THE STARTER AND BYPASS CONTACTOR.
2. WHEN INDEXED TO STOP BY A SIGNAL FROM THE UNIT CONTROLLER AND THE OCCUPANCY SENSOR INDICATE THE SPACE IS OCCUPIED, THE AHU SUPPLY FAN SHALL DE-ENERGIZE, OA DAMPER SHALL COMPLETELY CLOSE, AND RA DAMPER SHALL FULLY OPEN.

AIR FLOW CONTROL:
1. THE UNIT CONTROLLER SHALL MODULATE THE VFD FREQUENCY TO MEET SPACE TEMPERATURE SETPOINT OF 74°F (ADJUSTABLE) THROUGH THE USE OF THE RA DUCT MOUNTED TEMPERATURE SENSOR. THERMOSTATS SHALL BE LOCATED IN THE HURRICANE SAFE ROOM.

SUPPLY AIR TEMPERATURE CONTROL:
1. WHEN THE SUPPLY FAN IS ENERGIZED, THE DIRECT EXPANSION (DX) VALVE SHALL MODULATE AND THE COMPRESSORS SHALL STAGE/MODULATE TO MAINTAIN THE LEAVING AIR TEMPERATURE SETPOINT OF 55°F (ADJUSTABLE).
2. IF THE VFD IS AT MINIMUM SPEED AND THE SPACE TEMPERATURE DROPS BELOW HEATING SPACE SETPOINT OF 70°F (AS SENSED BY THE RETURN DUCT TEMPERATURE SENSOR) FOR MORE THAN 5 MINUTES (ADJUSTABLE), THE UNIT SHALL BE PUT IN HEAT PUMP MODE AND DX COIL SHALL BE MODULATED TO MAINTAIN THE HEATING SPACE TEMPERATURE SETPOINT. ONCE THE SPACE TEMPERATURE HAS RISEN ABOVE THE HEATING SETPOINT, OF 70°F (ADJUSTABLE), THE HEAT PUMP COIL SHALL DE-ENERGIZE AND THE SYSTEM ALLOWED TO DRIFT THROUGH A DEADBAND TO THE SPACE COOLING TEMPERATURE SETPOINT OF 74°F (ADJUSTABLE), AFTER THAT, THE SYSTEM SHALL RETURN TO NORMAL COOLING OPERATION.
3. THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE DYNAMICALLY RESET BASED ON THE DEVIATION OF ACTUAL SPACE TEMPERATURE FROM THE ACTIVE SPACE TEMPERATURE SETPOINT.
4. IF THE DISCHARGE AIR TEMPERATURE SENSOR FAILS, THE DX COOLING SHALL CONTROL TO MAINTAIN THE ACTIVE SPACE TEMPERATURE SETPOINT AND AN ALARM SHALL ANNUNCIATE AT THE UNIT CONTROLLER. IF THE DISCHARGE AIR TEMPERATURE SENSOR AND THE SPACE TEMPERATURE SENSOR FAIL, THE DX COOLING SHALL BE DISABLED AND AN ALARM SHALL ANNUNCIATE AT THE UNIT CONTROLLER.

OUTSIDE/RETURN AIR DAMPER CONTROL:
1. THE RETURN AIR DAMPER SHALL BE OPENED 100% AND THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN THE OUTSIDE AIR VOLUME SETPOINT AS SCHEDULED. AIRFLOW SHALL BE MONITORED BY AFM-1.
2. WHEN THE OUTSIDE AIR DAMPER IS OPEN 100% AND THE OUTSIDE AIR VOLUME IS BELOW SETPOINT, THE RA DAMPER SHALL MODULATE TO MAINTAIN THE OUTSIDE AIR VOLUME SETPOINT.

OUTSIDE AIR DEMAND CONTROL VENTILATION:
1. SYSTEM SHALL UTILIZE A LOCAL CO2 SENSOR AND SHALL MONITOR AND COMPARE THE MEASURED SPACE CO2 TO THE SPACE CO2 CONCENTRATION SETPOINT (ADJUSTABLE). THE UNIT SHALL AGGREGATE EACH SPACE CO2 SENSOR IN THE ZONE AND CONTROL BASED ON THE HIGHEST CO2 MEASUREMENT.
2. IF CARBON DIOXIDE DIFFERENTIAL RISES TO 700 PPM, THE AIR HANDLING UNIT OUTSIDE AIR DAMPER SHALL MODULATE OPEN TOWARDS MAXIMUM SETTING OR UNTIL OUTSIDE AIR DAMPER REACHES FULL OPEN POSITION, ONCE THE MEASURED CO2 CONCENTRATION FALLS BELOW A DIFFERENTIAL OF 700 PPM, THE OUTSIDE AIR DAMPER SHALL MODULATE TOWARD MINIMUM OUTDOOR AIR POSITION SETPOINT.

DISCHARGE AIR TEMPERATURE RESET CONTROL:
1. THE SPACE TEMPERATURE, OCCUPIED HEATING SETPOINT, OCCUPIED COOLING SETPOINT, AND THE HEAT/COOL MODE SHALL BE COMMUNICATED TO THE UNIT CONTROLLER. THE DISCHARGE AIR TEMPERATURE SHALL BE RESET BASED UPON THE DEVIATION OF SPACE TEMPERATURE FROM THE APPROPRIATE MODE SETPOINT DERIVED BY THE CONTROLLER. ALSO, THE UNIT CONTROLLER SHALL OVERRIDE THIS RESET FUNCTION WHENEVER OUTDOOR DEW POINT IS HIGHER THAN 60°F (ADJUSTABLE) OR INDOOR HUMIDITY (MEASURED AT THE SOURCE OF CONTROL) IS HIGHER THAN 60% RH (ADJUSTABLE). IF THE DISCHARGE AIR TEMPERATURE DROPS BELOW THE MINIMUM LIMIT, A LOW TEMPERATURE ALARM SHALL BE SENT TO THE UNIT CONTROLLER, AND THE UNIT SHALL SHUT DOWN. IF THE DISCHARGE AIR TEMPERATURE RISES ABOVE THE MAXIMUM LIMIT, A HIGH TEMPERATURE ALARM SHALL ANNUNCIATE.

MIXED AIR LOW LIMIT:
1. THE INITIAL DAMPER OPENING RATE SHALL BE LIMITED TO 2% PER MINUTE (ADJUSTABLE) UNTIL THE DAMPER HAS REACHED ITS MINIMUM VENTILATION POSITION. THE OUTSIDE AIR DAMPER SHALL MODULATE TO APOSITION LESS THAN THE MINIMUM DAMPER POSITION IF THE MIXED AIR TEMPERATURE DROPS BELOW 50°F (ADJUSTABLE). IF THE MIXED AIR TEMPERATURE SENSOR FAILS AN ALARM SHALL BE SENT TO THE UNIT CONTROLLER AND THE OUTSIDE AIR DAMPER SHALL RETURN TO THE MINIMUM POSITION.

HUMIDITY CONTROL:
1. WHENEVER RETURN AIR RELATIVE HUMIDITY IS AT OR ABOVE 55% (ADJUSTABLE), AS SENSED BY THE DUCT MOUNTED RA HUMIDITY SENSOR, THE DX COOLING COIL SHALL CONTROL TO MAINTAIN SPACE HUMIDITY OF 50%.
2. IF THE VFD IS AT MINIMUM SPEED AND THE SPACE TEMPERATURE DROPS BELOW SETPOINT OF 74°F (ADJUSTABLE), THE HOT GAS REHEAT COIL SHALL MODULATE TO PREVENT OVERCOOLING OF THE SPACE AND MAINTAIN SPACE TEMPERATURE SETPOINT.
3. WHEN SPACE RELATIVE HUMIDITY HAS DROPPED BACK TO 50% RH (ADJUSTABLE) FOR MORE THAN 20 MINUTES (ADJUSTABLE), THE SUPPLY AIR DISCHARGE TEMPERATURE SHALL INCREASE TO SCHEDULED OPERATION SETPOINT.
4. IF THE SPACE RELATIVE HUMIDITY SENSOR FAILS THE DEHUMIDIFICATION SEQUENCE SHALL BE TERMINATED AND AN ALARM SHALL BE SENT TO THE UNIT CONTROLLER.

FILTER STATUS:
1. A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER WHEN THE FAN IS RUNNING. IF THE SWITCH CLOSES DURING NORMAL OPERATION, A DIRTY FILTER ALARM SHALL ANNUNCIATE AT THE UNIT CONTROLLER.

UN-OCCUPIED MODE:
1. THE UNIT SUPPLY FAN SHALL DE-ENERGIZE. THE OA DAMPER SHALL CLOSE, AND THE RA DAMPER SHALL OPEN.
2. IF SPACE TEMPERATURE DROPS BELOW UN-OCCUPIED WINTER SPACE TEMPERATURE SET-POINT 60°F (ADJUSTABLE) AS MEASURED BY THE SPACE TEMPERATURE SENSOR, THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND THE HEAT PUMP SHALL BE ENABLED, WHEN THE SPACE TEMPERATURE RISES ABOVE THE UN-OCCUPIED HEATING SETPOINT OF 60°F (ADJUSTABLE) PLUS THE UN-OCCUPIED DIFFERENTIAL OF 4°F (ADJUSTABLE), THE SUPPLY FAN SHALL STOP AND THE HEAT PUMP SHALL BE DISABLED
3. IF SPACE TEMPERATURE RISES ABOVE THE SUMMER UN-OCCUPIED TEMPERATURE SET-POINT 80°F (ADJUSTABLE), THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND THE DX COOLING SHALL BE ENABLED, WHEN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED COOLING SETPOINT OF 80°F (ADJUSTABLE) MINUS THE UNOCCUPIED DIFFERENTIAL OF 4°F (ADJUSTABLE), THE SUPPLY FAN SHALL STOP, THE DX COOLING SHALL BE DISABLED, ANDTHE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED.

GRAPHICAL USER INTERFACE:
1. PROVIDE A GRAPHICAL DISPLAY OF THE SYSTEM AT THE UNIT CONTROLLER. THE DISPLAY SHALL SHOW ALL POINTS WITH THEIR MEASURED VALUES OR STATES, WHICH SHALL BE UPDATED CONTINUOUSLY AND SHOWN AS CURRENT VALUE.

INPUT/OUTPUT SUMMARY

SYSTEM		ANALOG INPUT							ANALOG OUTPUT			DIGITAL INPUT					DIGITAL OUTPUT				SYSTEM FEATURES ALARMS						SYSTEM FEATURES PROGRAMS							REMARKS
SINGLE-ZONE VARIABLE AIR VOLUME AIR HANDLING UNIT	COMMUNICATION/ DATA INTERFACE	TEMPERATURE	HUMIDITY	DIFF. PRESSURE	STATIC PRESSURE	FREQUENCY	FLOW RATE	SPEED	REAL TIME EFFICIENCY	SETPOINT ADJUSTMENT	VALVE ACTUATOR	DAMPER ACTUATOR	DIFF. PRESSURE SWITCH	STATUS	SPEED SWITCH	CURRENT RELAY	FLOW SWITCH	ON-OFF	DAMPER ACTUATOR	VALVE ACTUATOR	SPEED SIGNAL	ELEC. HEAT STAGES	PROOF	COMMUNICATION FAILURE	DIRTY FILTER	HIGH-LOW VALUE	HIGH/LOW PRESSURE	CO2 LEVEL	TIME SCHEDULE / TREND	OPT. START / STOP	RESET	RUN TIME	SET BACK - SET UP	MORNING WARM-UP	GRAPHIC	
SYSTEM																		●											●						●	CS-1
FAN VFD	●					●				●				●							●		●	●											●	SUPPLY FAN VFD
SUPPLY FAN																●																			●	CS-1
RETURN AIR		●	●									●																							●	H-1, TS-1
SUPPLY AIR		●																																	●	TS-3, TS-4
OUTSIDE AIR							●					●																							●	D-1, AFM-1
MIXED AIR		●																								●									●	TS-2
COILS														●				●																	●	COMPRESSOR, D/X VALVE, HGR, HEAT PUMP
FILTERS													●												●										●	DPS-1
SPACE		●	●																									●							●	T-1, H-1, CO2-1
DUCT SMOKE DETECTOR																								●											●	INTERLOCK W/ FIRE ALARM SYSTEM

1 AHU-1 CONTROL DIAGRAM
N.T.S.

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GULF COAST ELECTRICAL CO-OP

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100% DESIGN

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SCALE
NOT TO SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY AJZ
APPROVED BY NOK
CHECKED BY NOK
DATE 2.6.24

TITLE
MECHANICAL CONTROLS

PROJECT NO. 0122062

M-701

SHEET NO.

2/27/2024 2:34:35 PM

AIR HANDLING UNIT SCHEDULE

UNIT NO.	AREA SERVED	LOCATION	AIRFLOW		SUPPLY FAN					COOLING COIL							HEAT PUMP				ELECTRICAL DATA							UNIT WEIGHT	BASIS OF DESIGN
			OA CFM	SA CFM	FAN QTY.	FAN BHP	FAN HP	FAN MAX RPM	MAX. ESP	TOTAL CAP. (MBH)	SENS. CAP. (MBH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	REFR. TYPE	TOTAL CAP. (MBH)	EAT DB (°F)	LAT DB (°F)	MAX APD (In. H2O)	FLA	MCA	MOCP	V	PH	HZ		
AHU-1	110 HURRICANE SAFE ROOM	105 MECH/ELEC	1180	5500	2	2,19	-	1882	1,80	305,3	217,7	80,0	67,0	55,9	54,2	R-410A	176	40	80	0,40	14,0	16	20	208	3	60	850	AAON : V3-ERB-8
AHU-2	100 CORR / 102 WOMENS / 103 MENS	113 STOR RM	0	1100	1	-	.5	-	0.77	36.4	26.0	77.1	66.0	54.3	55.2	R-410A	32	40	80	-	3.9	4	15	208	1	60	170	LENNOX : CBA25UHV-036
AHU-3	120 CONFERENCE	113 STOR RM	250	1300	1	-	1,0	-	0,79	41,8	29,6	78,1	66,9	56,1	56,1	R-410A	35	40	80	-	6,9	6	15	208	1	60	170	LENNOX : CBA25UHV-042

AHU-1 NOTES:

1. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
2. DISCONNECT PROVIDED BY ELECTRICAL, REFER TO ELECTRICAL DRAWINGS.
3. PROVIDE FACTORY MOUNTED DISCONNECT.
4. PROVIDE 4" THROWAWAY PLEATED FILTERS, MIN. MERV 8.
5. PROVIDE FLOOR MOUNTED SUPPORT STAND WITH VIBRATION ISOLATION.
6. PROVIDE REFRIGERANT LINES SIZE AS RECOMMENDED BY MANUFACTURER. FOR LONGER RUNS COORDINATE WITH MANUFACTURER PRIOR TO PURCHASE OR ANY WORK.
7. PROVIDE 3" AUXILLARY DRAIN PAN WITH AUTOMATIC SHUT OFF FLOAT SWITCH OR SENSOR SWITCH IN UNIT'S DRAIN PAN SECONDARY CONNECTION.
8. PROVIDE FULLY MODULATING HOT GAS REHEAT COIL AND HOT GAS REHEAT COIL AND VALVES FOR DEHUMIDIFICATION OPERATION.
9. PROVIDE UNIT WITH FACTORY DDC CONTROLLER. DDC CONTROLLER SHALL HAVE LCD DISPLAY WITH GRAPHICAL USER INTERFACE.
10. PROVIDE FACTORY TOUCHSCREEN PROGRAMMABLE CONTROLLER.
11. PROVIDE 6 ROW DX COOLING COIL FOR HIGH CAPACITY DEHUMIDIFICATION.
12. PROVIDE CLOGGED FILTER STATUS.
13. COORDINATE FINAL ELECTRICAL REQUIREMENTS FOR FINAL SELECTION OG AHU-1/CU-1 WITH ELECTRICAL PRIOR TO BID.

AHU-2,3 NOTES:

1. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
2. DISCONNECT PROVIDED BY ELECTRICAL, REFER TO ELECTRICAL DRAWINGS.
3. PROVIDE FACTORY MOUNTER DISCONNECT/BREAKER.
4. PROVIDE ECM MULTI SPEED SUPPLY FAN
5. PROVIDE 4-INCH THROWAWAY MERV 8 MIN. PLEATED AIR FILTER AND VIBRATION ISOLATION. PROVIDE FILTER RACK BETWEEN THE UNIT RETURN AIR INTAKE AND RETURN AIR DUCT TO ACCOMMODATE FILTER.
6. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT. UNITS SHALL BE THERMOSTATICALLY CONTROLLED TO CYCLE WITH LOADS. NO ADDITIONAL CONTROLS ARE REQUIRED.
7. PROVIDE REFRIGERANT LINES SIZE AS RECOMMENDED BY MANUFACTURER. FOR LONGER RUNS COORDINATE WITH MANUFACTURER PRIOR TO PURCHASE OR ANY WORK.
8. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL 3" AUXILIARY DRAIN PAN WITH AUTOMATIC SHUT OFF FLOAT SWITCH OR SENSOR SWITCH IN UNIT'S DRAIN PAN SECONDARY CONNECTION.
9. PROVIDE MOTORIZED OUTSIDE AIR DAMPER INTERLOCKED WITH SUPPLY AIR FAN FOR AHU-3. PROVIDE MOTORIZED RETURN AIR DAMPER. RA DAMPER SHALL BE TWO POSITION TYPE. POSITION ONE: RA DAMPER BALANCED WITH OA DAMPER 100% OPEN. POSITION TWO: RA DAMPER 100% OPEN WITH OUTSIDE AIR DAMPER CLOSED.

AIR-COOLED CONDENSING UNIT SCHEDULE

UNIT NO.	LOCATION	ASSOCIATED AHU	NOMINAL COOLING CAPACITY (TONS)	NOMINAL HEATING CAPACITY (TONS)	FAN QTY	FAN FLA (EA)	COMPRESSOR QTY	COMPRESSOR RLA (EA)	COMPRESSOR MIN. EER	REFRIGERANT TYPE	REFRIGERANT GAS SIZE	REFRIGERANT LIQUID SIZE	ELECTRICAL DATA MCA	MOP	V	PH	HZ	UNIT WEIGHT	BASIS OF DESIGN
CU-1	130 MECHANICAL YARD	AHU-1	22,67	15,0	4	3,4	2	48,1	10,2	R-410A	NOTE 1	NOTE 1	122	150	208	3	60	1518	AAON : CFA-025-C
CU-2	130 MECHANICAL YARD	AHU-2	3	-	1	-	-	-	-	R-410A	NOTE 1	NOTE 1	18	30	208	1	60	220	LENNOX : ML17XP1-036-230
CU-3	130 MECHANICAL YARD	AHU-3	3.5	-	1	-	-	-	-	R-410A	NOTE 1	NOTE 1	26	40	208	1	60	250	LENNOX : ML17XP1-042-230

NOTES:

1. SIZE REFRIGERANT LINES PER MANUFACTURER RECOMMENDATIONS. PROVIDE OVERSIZE LINES AND/OR REFRIGERATION LINE EXTENSION KIT BASEDON MANUFACTURERS RECOMMENDATIONS FOR EXTENDED REFRIGERATION LINE RUNS.
2. AMBIENT DESIGN TEMPERATURE IS 95° F.
3. DISCONNECT PROVIDED BY ELECTRICAL. REFER TO ELECTRICAL DRAWINGS.
4. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
5. PROVIDE 5 YEAR COMPRESSOR WARRANTY.
6. PROVIDE PROTECTIVE COATING ON CASING, BASE, FRAME AND CONDENSER COIL OF OUTSIDE CONDENSING UNIT. ACCEPTABLE PROVIDERS ARE GOLDFIN, BLYGOLD, LUVATA, AND BRONZ-GLOW. COIL COATING SHALL BE APPLIED AFTER CONSTRUCTION OF THE COIL (COATED FIN STOCK IS NOT ACCEPTABLE). COATING SHALL BE DOCUMENTED TO ENDURE A MINIMUM OF 4,000 HOURS OF SALT SPRAY (ASTM B117). COATING SHALL BE APPLIED BY THE FACTORY TRAINED AND CERTIFIED APPLICATOR.
7. PROVIDE CONDENSER COIL GUARDS.
8. PROVIDE CU-1 WITH HEAT PUMP OPERATION CAPABILITY.
9. PROVIDE CU-1 WITH VARIABLE SPEED COMPRESSORS FOR FULL PART LOAD CAPACITY CONTROL.

AIR DEVICE SCHEDULE

MARK	MIN CFM	MAX CFM	FACE SIZE	NECK SIZE	MAX. NC	TYPE	BASIS OF DESIGN
SUPPLY AIR							
SD1	0	75	8x8	6x6	30	GRILLE	TITUS 300RL
SD2	76	250	10x10	8x8	30	GRILLE	TITUS 300RL
SD3	50	150	24x24	6ø	30	LOUVERED	TITUS TDC
SD4	151	275	24x24	8ø	30	LOUVERED	TITUS TDC
SD5	276	425	24x24	10ø	30	LOUVERED	TITUS TDC
RETURN AIR							
RG1	100	210	12x12	10x10	30	PERFORATED	TITUS PAR
RG2	100	210	24x24	10x10	30	PERFORATED	TITUS PAR
RG3	50	100	24x24	6ø	30	PERFORATED	TITUS PAR
RG4	210	320	24x24	10ø	30	PERFORATED	TITUS PAR
RG5	320	400	24x24	12ø	30	PERFORATED	TITUS PAR
RG6	400	600	24x24	14ø	30	PERFORATED	TITUS PAR
RG7	600	1100	24x24	16ø	30	PERFORATED	TITUS PAR
RG8	0	250	10x10	8x8	30	GRILLE	TITUS 350FL
EXHAUST AIR							
EG1	0	125	12x12	6x6	35	EGGCRATE	TITUS 50F

NOTES:

1. AIR DISTRIBUTION DEVICES LOCATED IN SMALL ROOMS WHERE FULL 24"x24" GRID ARE NOT AVAILABLE SHALL BE PROVIDED WITH SURFACE MOUNTING BORDERS IN LIEU OF LAY-IN. SECURE EACH DEVICE TO CEILING GRID WITH FIELD-FABRICATED SUPPORTS.
2. ALL GRILLES SHALL BE SUPPLIED WITH A SQUARE TO ROUND DUCT ADAPTOR.

FAN SCHEDULE

FAN NO.	AREA SERVED	LOCATION	FAN TYPE	FAN CHARACTERISTICS CFM	ESP (in H2O)	FAN RPM	HP / W	DRIVE	ELECTRICAL DATA V	PH	HZ	EMERGENCY POWER	BASIS OF DESIGN	COMMENTS
EF-1	RESTROOMS & JAN CL	STORAGE RM 101	INLINE	600	0.25	980	1/4 HP	DIRECT	115	1	60	YES	GREENHECK : SQ-100-VG	1, 2, 3
EF-2	F/M 123	F/M 123	CEILING CABINET	80	0,25	-	5,8 W	DIRECT	120	1	60	YES	BROAN : XB80	1, 2, 4
EF-3	JAN CL 122	JAN CL 122	CEILING CABINET	50	0.25	-	5.1 W	DIRECT	120	1	60	NO	BROAN : XB50	1, 2, 4

NOTES:

1. PROVIDE SINGLE POINT ELECTRICAL CONNECTION AND FACTORY DISCONNECT SWITCH.
2. PROVIDE BACKDRAFT DAMPER.
3. FAN SHALL BE INTERLOCKED WITH AHU-1 OPERATION & CORRESPONDING OUTSIDE AIR DAMPER.
4. FAN SHALL BE INTERLOCKED WITH LIGHTING CONTROL TO BE "ON" WHEN SPACE IS OCCUPIED. PROVIDE FACTORY TIME DELAY SWITCH TO ALLOW FAN TO REMAIN "ON" WHEN SPACE IS UN-OCCUPIED FOR 10-MINUTES (ADJUSTABLE).

LOUVER SCHEDULE

MARK	SIZE (W"xH")	AIRFLOW (CFM)	PRESSURE DROP (IN-WG)	FREE AREA (SF)	SERVICE	LOCATION	BASIS OF DESIGN MFR: MODEL
L-1	30x30	1180	0.1	2.9	OUTSIDE AIR	ELEC / MECH 105	GREENHECK: EVH-501D
L-2	24x24	600	0.1	1.7	EXHAUST AIR	WOMENS 102	GREENHECK: EVH-501D
L-3	18x18	250	0,1	0,8	OUTSIDE AIR	STOR RM 113	GREENHECK: EVH-501D
L-4	14x14	125	0,1	0,4	EXHAUST AIR	F/M 123	GREENHECK: EVH-501D

NOTES:

1. PROVIDE ALL LOUVERS WITH DAMPER. REFER TO DAMPER SCHEDULE.
2. ALL LOUVERS TO BE AMCA 540 AND AMCA 550 LISTED.

RANGE HOOD SCHEDULE

UNIT NO.	TOTAL EXHAUST CFM	SONES	WEIGHT (LBS.)	ELECTRICAL V	PH	HZ	LIGHT WATTS	BASIS OF DESIGN
KH-1	250	8,9	90	120	1	60	60	GREENHECK : GRRS-W
KH-2	250	8,9	90	120	1	60	60	GREENHECK : GRRS-W

NOTES:

1. PROVIDE STAINLESS STEEL GREASE FILTER AND TRAY
2. COORDINATE 30" OR 36" HOOD WIDTH WITH ARCHITECTURAL PLANS
3. PROVIDE INTEGRAL UL300A WET CHEMICAL FIRE SUPPRESSION SYSTEM
4. PROVIDE INTEGRAL VARIABLE SPEED FAN WITH ELECTRONICALLY COMMUTATED (ECM) MOTOR
5. PROVIDE HOOD WITH LED LIGHTS.
6. HOOD CONTROLLER SHALL AUTOMATICALLY SHUT OFF POWER TO APPLIANCE AND RELEASE WET CHEMICAL FIRE SUPPRESSANT UPON ACTIVATION OF TEMPERATURE HIGH LIMIT. HOOD CONTROLLER SHALL ALSO OFFER MANUAL ACTIVATION VIA PULL STATION
7. PROVIDE TROUBLE AND FIRE ALARM CONTACTS FOR INTERFACE WITH BUILDING FIRE ALARM SYSTEM.
8. PROVIDE MANUAL PULL STATION
9. PROVIDE ELECTRIC SHUTOFF MODULE.
10. PROVIDE FRONT RECIRCULATION VENTILATION.

DUCTLESS SPLIT SYSTEM - OUTDOOR UNIT SCHEDULE

UNIT NO.	NOM. TONS	AMBIENT TEMP. (°F)	SEER2	ELECTRICAL DATA V	PH	HZ	MCA	MOP	UNIT SIZE LENGTH	WIDTH	HEIGHT	WEIGHT (LBS)	BASIS OF DESIGN
CU-4	3.0	95	20.1	208	1	60	25	40	37-1/2"	13"	54-3/8"	218	LG : ARUN036GSS4

NOTES:

1. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
2. DISCONNECT PROVIDED BY ELECTRICAL. REFER TO ELECTRICAL DRAWINGS.
3. SIZE REFRIGERANT LINES PER MANUFACTURERS RECOMMENDATIONS.
4. AMBIENT DESIGN TEMPERATURE IS 95° F.
5. PROVIDE 5 YEAR COMPRESSOR WARRANTY.
6. PROVIDE ANTI-RECYCLE COMPRESSOR TIMER.
7. PROVIDE CONDENSER COIL GUARDS.
8. PROVIDE PROTECTIVE COATING ON CASING, BASE, FRAME AND CONDENSER COIL OF OUTSIDE CONDENSING UNIT. ACCEPTABLE PROVIDERS ARE GOLDFIN, BLYGOLD, LUVATA, AND BRONZ-GLOW. COIL COATING SHALL BE APPLIED AFTER CONSTRUCTION OF THE COIL (COATED FIN STOCK IS NOT ACCEPTABLE). COATING SHALL BE DOCUMENTED TO ENDURE A MINIMUM OF 4,000 HOURS OF SALT SPRAY (ASTM B117). COATING SHALL BE APPLIED BY THE FACTORY TRAINED AND CERTIFIED APPLICATOR.

DUCTLESS SPLIT SYSTEM - INDOOR UNIT SCHEDULE

UNIT NO.	ASSOCIATED OUTDOOR UNIT	CFM (MAX.)	TOTAL COOLING CAP. (MBH)	SENSIBLE COOLING CAP.	TOTAL HEATING CAP. (MBH)	ELECTRICAL DATA V	PH	HZ	MCA	MOP	BASIS OF DESIGN
DSS-1	CU-4	812	30,000	24,000	32,000	208	1	60	1.02	15	LG : ARNU303SV4

NOTES:

1. INDOOR UNIT POWER SUPPLIED FROM OUTDOOR UNIT.
2. HIGH SIDEWALL INDOOR UNIT. INSTALL REFRIGERANT LINES THROUGH REAR OF UNIT CONCEALED WITHIN WALL. NO EXPOSED PIPING SHALL BE ALLOWED.
3. PROVIDE HARD WIRED 7-DAY PROGRAMMABLE THERMOSTAT. UNIT(S) SHALL BE THERMOSTATICALLY CONTROLLED TO CYCLE WITH LOADS. NO ADDITIONAL CONTROLS ARE REQUIRED.
4. PROVIDE AND INSTALL INTEGRAL/ACCESSORY CONDENSATE PUMP WITHIN INDOOR UNIT AND WIRE TO UNIT TERMINAL BLOCK PER MANUFACTURER'S INSTRUCTIONS.
5. PROVIDE REFRIGERANT LINES SIZED AS RECOMMENDED BY MANUFACTURER. FOR LONGER RUNS, COORDINATE WITH MANUFACTURER PRIOR TO PURCHASE OR ANY WORK.

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GULF COAST ELECTRICAL CO-OP

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SCALE

NOT TO SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY AJZ
APPROVED BY NOK
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MECHANICAL SCHEDULES

PROJECT NO. 0122062

M-801

SHEET NO.

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ELECTRICAL SYMBOLS - POWER/LIGHTING PLANS

SYMBOL	DESCRIPTION
	EXISTING TO BE REMOVED (HEAVY, DASHED LINE)
	EXISTING TO REMAIN (LIGHT, SOLID LINE)
	NEW (HEAVY, SOLID LINE)
ABCD-##	BRANCH CIRCUIT HOMERUN. "ABCD" INDICATES PANEL NAME, "##" INDICATE POLE POSITIONS IN PANEL. ONE SEPARATE GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN
UP	CONDUIT TURNING UP
DN	CONDUIT TURNING DOWN
	CONDUIT STUBBED OUT OR UP
	CONDUIT CONTINUED
	SWITCHBOARD/ SWITCHGEAR/ DISTRIBUTION PANEL, UNDER 250 VOLTS
	BRANCH CIRCUIT PANELBOARD, UNDER 250 VOLTS, SURFACE MOUNTED
	BRANCH CIRCUIT PANELBOARD, UNDER 250 VOLTS, FLUSH MOUNTED
	MOTOR CONNECTION
	GROUND BUS BAR, COPPER
	DISCONNECT SWITCH, FUSED
	DISCONNECT SWITCH, UNFUSED
	STARTER, COMBINATION WITH DISCONNECT SWITCH
	STARTER OR MOTOR CONTROLLER
VFD	VARIABLE FREQUENCY DRIVE
	JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	RECEPTACLE, DUPLEX SUBSCRIPTS (TYPICAL FOR ALL RECEPTACLES): G = GFCI TYPE T = TAMPER RESISTANT CH = MOUNTED AT COUNTER HEIGHT WITH BOTTOM OF DEVICE AT 6" ABOVE COUNTER OR 2" ABOVE BACKSPLASH OR AS NOTED ON PLANS USB = DUPLEX RECEPTACLE WITH (1) USB TYPE 'A' AND (1) USB TYPE 'C' WP = DEVICE PROVIDED WITH WEATHERPROOF IN-USE METAL COVER
	RECEPTACLE, DOUBLE DUPLEX (QUADRAPLEX)
	RECEPTACLE, SINGLE
	RECEPTACLE, SPECIAL PURPOSE, SEE CODED NOTES ON FLOOR PLANS FOR NEMA CONFIGURATION AND WIRING REQUIREMENTS
	FLOOR BOX WITH DUPLEX RECEPTACLE WITH APPROPRIATE FLANGE
	FLOOR BOX, TWO DUPLEX RECEPTACLES (QUAD) WITH APPROPRIATE FLANGE
	MULTI-SERVICE FLOOR BOX WITH DUPLEX RECEPTACLE, VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS)
	MULTI-SERVICE FLOOR BOX WITH TWO DUPLEX RECEPTACLES (QUAD) , VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS)

SYMBOL	DESCRIPTION
$_{\#}$	SWITCH (# SUBSCRIPT AS INDICATED BELOW) - SEE PLANS AND SPECIFICATIONS FOR DETAILS BLANK = SINGLE POLE D = DIMMER LV= LOW VOLTAGE - SEE BELOW FOR DETAILS M = MANUAL MOTOR STARTING WP= WEATHER PROOF OS= DUAL TECHNOLOGY OCCUPANCY SENSOR
S LV2Dab	LOW VOLTAGE SWITCH - SEE PLANS, SPECIFICATIONS AND WIRING DIAGRAMS FOR DETAILS SUBSCRIPT(S) INDICATE FIXTURES CONTROLLED 'D' INDICATES 0-10V DIMMING '2' INDICATES NUMBER OF LOW VOLTAGE ZONES 'LV' INDICATES LOW VOLTAGE SWITCH
LPP a	LIGHTING POWER PACK RELAY SUBSCRIPT INDICATES CONTROLLING SWITCH AND FIXTURES CONTROLLED (TYPICAL)
LPD	LIGHTING POWER PACK RELAY WITH 0-10V DIMMING
LPE	EMERGENCY LIGHTING POWER PACK RELAY - UL924 COMPLIANT
LPDE	EMERGENCY LIGHTING POWER PACK RELAY - UL924 COMPLIANT AND 0-10V DIMMING
OS	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
A 2 a	FIXTURE TYPE LED FIXTURE, RECESSED, PENDANT OR SURFACE CEILING LOWER CASE LETTER INDICATES CONTROLLING SWITCH CIRCUIT NUMBER
	LED, RECESSED, PENDANT OR SURFACE CEILING LIGHTING FIXTURE SHADING INDICATES FIXTURE CONNECTED TO EMERGENCY CIRCUIT; "E" AFTER FIXTURE TYPE TAG INDICATES INTEGRAL BATTERY PACK UNLESS OTHERWISE NOTED ON LIGHT FIXTURE SCHEDULE (TYPICAL FOR ALL LIGHT FIXTURE SYMBOLS)
	LIGHTING, EXTERIOR BUILDING
	EXIT LIGHT, LED, CEILING OR PENDANT MOUNTED; DIRECTIONAL ARROWS AS INDICATED; SHADED QUADRANT INDICATES FACE(S) OF LUMINAIRE

LIGHTNING PROTECTION SYSTEM

SYMBOL	DESCRIPTION
	AIR TERMINAL; PROVIDE PARAPET TYPE BASE WHERE MOUNTED ON PARAPET; PROVIDE FLAT BASE FOR MECHANICAL EQUIPMENT OR ROOF PERIMETER WITH NO PARAPET; PROVIDE BLUNT TIP WHERE MOUNTED ON INTERIOR OF ROOF, UNLESS OTHERWISE NOTED ON LIGHTNING PROTECTION PLANS
	GROUND TERMINAL
DN	DOWN CONDUCTOR
DN	THRU-ROOF CONDUCTOR

ELECTRICAL ONE-LINE

SYMBOL	DESCRIPTION
	TRANSFORMER, ONE-LINE
M	METER, ONE-LINE
### ABC	PANELBOARD MAIN CIRCUIT BREAKER TYPE, ONE-LINE ### - INDICATES BREAKER RATING ABC - INDICATES PANEL DESIGNATION
### ABC	PANELBOARD MAIN LUG TYPE, ONE-LINE ### - INDICATES BUS RATING ABC - INDICATES PANEL DESIGNATION
###A	ENCLOSED CIRCUIT BREAKER ### - INDICATES BREAKER RATING
G	GENERATOR, ONE-LINE
	TRANSFER SWITCH, ONE-LINE
	EARTH GROUND
SPD	SURGE PROTECTIVE DEVICE

ELECTRICAL ABBREVIATIONS

ABBR.	DESCRIPTION
1PH	SINGLE-PHASE
3PH	THREE-PHASE
4W	FOUR-WIRE
A/E	ARCHITECT/ENGINEER
AF	AMPERE FRAME OR AMP FUSE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
ALT	ALTERNATE
AMP	AMPERE
ASC	AMPS SHORT CIRCUIT
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CAT	CATALOG
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
cd	CANDELA
CD	CONSTRUCTION DOCUMENTS
CKT	CIRCUIT
CLG	CEILING
COAX	COAX CABLE
COMM	COMMUNICATION
CONC	CONCRETE
CONT	CONTINUE
COORD	COORDINATE
CRI	COLOR RENDERING INDEX
CT	CURRENT TRANSFORMER
CU	COPPER
DB	DECIBEL OR DIRECT BURIAL
DC	DIRECT CURRENT
DEG C	DEGREES CELSIUS
DEG F	DEGREES FAHRENHEIT
DEMO	DEMOLITION
DISC	DISCONNECT
DN	DOWN
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DS	DISCONNECT SWITCH
DWG	DRAWING
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
ESMT	EASEMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
ETR	EXISTING TO REMAIN
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FC	FOOTCANDLE
FLA	FULL LOAD AMPS
FP	FIRE PROTECTION
FT	FEET OR FOOT
GND	GROUND
G or GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GTB	GROUND TERMINAL BOX
HD	HEAT DETECTOR
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HZ	HERTZ
IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
IMC	INTERMEDIATE METAL CONDUIT
IR	INFRARED
IWH	INSTANTANEOUS WATER HEATER
J-BOX	JUNCTION BOX
KCMIL	ONE-THOUSAND CIRCULAR MILS
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kVAH	KILOVOLT AMPERE PER HOUR
kVAR	KILOVOLT AMPERE REACTIVE
kW	KILOWATT
kWH	KILOWATT HOUR

ABBR.	DESCRIPTION
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET (FOOT)
LM	LUMEN
LP	LIGHT POLE
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
LV	LOW VOLTAGE
MAX	MAXIMUM
MC	METAL-CLAD
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
MVA	MEGAVOLT-AMPERE
MW	MEGAWATT MICROWAVE
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT OR N	NEUTRAL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NS	NO SCALE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OL	OVERLOAD
P	POLE
PA	PUBLIC ADDRESS
PCB	POLYCHLORINATED BIPHENYL
PH	PHASE
PNL	PANEL
POD	POWER OPERATED DAMPER
PVC	POLYVINYL CHLORIDE (PLASTIC)
PWR	POWER
RCP	REFLECTED CEILING PLAN
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMS	ROOT MEAN SQUARE
REQD	REQUIRED
SCC	SHORT CIRCUIT CAPACITY
SD	SMOKE DETECTOR
SF	SQUARE FOOT (FEET)
SI	INTERNATIONAL SYSTEM OF UNITS
SPEC	SPECIFICATION
SPST	SINGLE POLE, SINGLE THROW
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TEL	TELEPHONE
TP	TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VA	VOLT AMPERE
VAR	VOLT AMPERE REACTIVE
VFD	VARIABLE FREQUENCY DRIVE
VOLT	VOLTAGE
W	WATT
WH	WATER HEATER
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER

SHEET LIST

SHEET NUMBER	SHEET NAME
E-001	ELECTRICAL LEGENDS & SYMBOLS
E-002	ELECTRICAL GENERAL NOTES
ES100	ELECTRICAL SITE PLAN
EL101	FIRST FLOOR PLAN - LIGHTING - NEW WORK
EP101	FIRST FLOOR AND ROOF PLAN - ELECTRICAL EQUIP. - NEW WORK
E-501	ELECTRICAL DETAILS
E-502	ELECTRICAL DETAILS
E-601	ELECTRICAL DIAGRAMS
E-801	ELECTRICAL SCHEDULES

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ELECTRICAL LEGENDS & SYMBOLS

PROJECT NO. 0122062

E-001

SHEET NO.

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ELECTRICAL GENERAL NOTES

1. THE DRAWINGS AND APPLICABLE SPECIFICATIONS SHALL BE CONSIDERED SUPPLEMENTARY, ONE TO THE OTHER AND ARE CONSIDERED THE "CONTRACT DOCUMENTS". ALL WORKMANSHIP, METHODS AND/OR MATERIALS DESCRIBED OR IMPLIED BY ONE AND NOT DESCRIBED OR IMPLIED BY THE OTHER SHALL BE PROVIDED, FURNISHED OR PERFORMED AS IF IT HAD APPEARED IN BOTH SECTIONS. THE TERM "CONTRACT DOCUMENTS" DESCRIBED HEREIN IS NOT LIMITED SOLELY TO THE ELECTRICAL PORTION OF THE DRAWINGS AND SPECIFICATIONS, BUT ENCOMPASSES THE DRAWINGS AND SPECIFICATIONS OF ALL DIVISIONS AS A WHOLE.
2. PROVIDE AN OPERATING AND MAINTENANCE MANUAL TO OWNER PRIOR TO THE FINAL ACCEPTANCE. THE MANUAL SHALL INCLUDE, AS A MINIMUM, (1) SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. ALSO PROVIDE TWO OPERATIONS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS AND METHOD OF OPERATION FOR EQUIPMENT SHALL BE CLEARLY IDENTIFIED, AND THE NAME, PHONE NUMBER AND ADDRESS OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
3. INCLUDE ALL COSTS FOR EXCAVATION, SAW CUTTING, DIRECTIONAL BORING, CORE DRILLING, BACKFILLING, SURFACE RESTORATION, REPAIR OF FINISHES, ETC. THAT IS REQUIRED IN ORDER TO MEET THE PROJECT REQUIREMENTS.
4. INCLUDE IN BID ALL COSTS ASSOCIATED WITH TEMPORARY ELECTRICAL SERVICE AS REQUIRED FOR USE BY ALL TRADES DURING CONSTRUCTION. REMOVE TEMPORARY POWER AT THE COMPLETION OF THE PROJECT. OBTAIN AND PAY FOR ALL REQUIRED PERMITS FOR TEMPORARY POWER, ENGINEER OF RECORD SHALL BE PROVIDED WITH ADDITIONAL COMPENSATION FROM THE CONTRACTOR WHERE SIGNED & SEALED DRAWINGS ARE REQUESTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD IF REQUIRED BY THE AHJ FOR THE TEMPORARY POWER.
5. PROVIDE A COMPLETE UL LISTED LIGHTNING PROTECTION SYSTEM WITH A MASTER LABEL FOR THE ENTIRE FACILITY PER THE REQUIREMENTS OF NFPA 780, AND THE DIVISION 26 SPECIFICATIONS, UNLESS NOTED OTHERWISE. LIGHTNING PROTECTION SYSTEM SHALL INCLUDE BURIED COUNTERPOISE, UNLESS NOTED OTHERWISE.
6. LOCATE, IDENTIFY, PROTECT AND DOCUMENT ALL UTILITY LINES LOCATED WITHIN THE PROJECT BOUNDARY. FOR LOCATING SITE UTILITIES, CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT LEAST 48 HOURS IN ADVANCE PRIOR TO DIGGING, AT 1-800-432-4770.
7. INCLUDE IN BID THE TRANSPORT AND DISPOSAL OR RECYCLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL RULES, REGULATIONS AND GUIDELINES APPLICABLE. COMPLY FULLY WITH FLORIDA STATUTES REGARDING MERCURY-CONTAINING DEVICES, AND WITH ALL DEP AND EPA APPLICABLE GUIDELINES AT THE TIME OF DISPOSAL. PROVIDE OWNER WITH WRITTEN CERTIFICATION OF ACCEPTED DISPOSAL.
8. ALL POWER CIRCUITS HAVE BEEN DESIGNED IN COMPLIANCE WITH SECTION C405.7.3 OF THE ENERGY CONSERVATION CODE, FLORIDA BUILDING CODE REQUIRING 2% OR LESS VOLTAGE DROP FOR FEEDERS, AND 3% OR LESS VOLTAGE DROP FOR BRANCH CIRCUITS. ELECTRICAL SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA 70).
9. ALL BRANCH CIRCUITS SHALL BE FURNISHED WITH A DEDICATED NEUTRAL. SHARED NEUTRALS ARE NOT ALLOWED UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.
10. VERIFY AND COORDINATE LOCATIONS OF ANY MISCELLANEOUS EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS (I.E., COPIERS, FAX MACHINES, PRINTERS, KITCHEN APPLIANCES, PROJECTION SCREENS, ETC.) WITH APPROVED SHOP DRAWINGS, OWNER-PROVIDED CUT SHEETS, MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT NAMEPLATE INFORMATION, PRIOR TO ROUGH IN, AND PROVIDE ALL NECESSARY ELECTRICAL REQUIRED.
11. VERIFY AND COORDINATE LOCATIONS AND EXACT ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT PRIOR TO SUBMITTAL OF SHOP DRAWINGS OF ELECTRICAL EQUIPMENT, PROVIDE ALL NECESSARY RACEWAYS, CONDUCTORS, BOXES, EQUIPMENT, ACCESSORIES, ASSOCIATED DISCONNECT SWITCHES, CIRCUIT BREAKERS, CONTROL TRANSFORMERS, ETC., REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH APPROPRIATE TRADE'S APPROVED SHOP DRAWINGS, MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT NAMEPLATE INFORMATION. PRIOR TO ROUGH IN, AND PROVIDE ALL NECESSARY ELECTRICAL REQUIRED, UNLESS OTHERWISE NOTED.
12. THIS PROJECT REQUIRES COORDINATION DRAWINGS BY THE CONTRACTOR. PARTICIPATE IN THE COORDINATION DRAWING PREPARATION PROCESS AND PROVIDE ALL NECESSARY INFORMATION REQUIRED TO COORDINATE ALL TRADE INFORMATION.
13. ALL WORK ON THE ELECTRICAL SYSTEM REQUIRED BY THE CONTRACT DOCUMENTS SHALL BE COORDINATED WITH THE WORK OF ALL OTHER DIVISIONS/TRADES PRIOR TO COMMENCEMENT OF WORK. AVOID INTERFERENCES WITH THE PROGRESS OF OTHER DIVISIONS/TRADES.
14. LOCATIONS OF VFD'S, DISCONNECTS, MOTOR STARTERS, ETC. FOR HVAC EQUIPMENT ARE DIAGRAMMATIC ON THE PLAN DRAWINGS, EXACT LOCATIONS ARE TO BE COORDINATED WITH CONTRACTOR'S COORDINATION DRAWINGS PRIOR TO ROUGHING IN TO ENSURE PROPER NEC CLEARANCES AND APPROPRIATE MOUNTING SURFACE.
15. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. PROVIDE COMPONENTS INDICATED ON RISER DIAGRAMS WHETHER OR NOT INDICATED ON PLANS AND VICE VERSA.
16. ROUTING OF CONDUIT IS DIAGRAMMATIC AND NOT INTENDED TO SHOW REQUIRED OFFSETS AND DETAILS. COORDINATE EXACT ROUTING WITH FIELD CONDITIONS AND OTHER TRADES.
17. COORDINATE RECEPTACLE LOCATIONS WITH TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS SO THAT A 120V 20A 5-20R RECEPTACLE IS LOCATED ADJACENT TO EACH VOICE/DATA OUTLET AND TV OUTLET INDICATED ON PLANS. RECEPTACLE IS TO BE CONNECTED TO NEAREST 120V RECEPTACLE CIRCUIT, UNLESS OTHERWISE NOTED ON PLANS.
18. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, CIVIL, LANDSCAPE, INTERIOR DESIGN, TECHNOLOGY, AND STRUCTURAL DRAWINGS FOR RELATED INFORMATION AND ADDITIONAL INSTALLATION REQUIREMENTS TO BE PERFORMED AS PART OF THE WORK. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT AND LOCATIONS.
19. WHERE A DISCREPANCY OR CONFLICT IS FOUND BETWEEN ONE DRAWING AND ANOTHER, OR BETWEEN A DRAWING AND APPLICABLE SPECIFICATIONS, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IN WRITTEN FORM. IN GENERAL, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS THE DISCREPANCY CONFLICTS WITH APPLICABLE CODES OR OWNER'S DESIGN STANDARDS, WHEREIN THE CODE OR OWNER'S DESIGN STANDARDS SHALL GOVERN.
20. CAREFULLY EXAMINE THOSE PORTIONS OF THE SITE AFFECTED BY THIS WORK PRIOR TO SUBMITTAL BID PRICE, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT MAY AFFECT EXECUTION OF THE WORK. SUBMISSION OF A BID PRICE SHALL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT AND/OR MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED THAT COULD HAVE BEEN REASONABLY OBSERVED WILL NOT BE RECOGNIZED.
21. COORDINATE ALL PROJECT SCHEDULING AND PHASING REQUIREMENTS WITH ARCHITECT/ENGINEER AND OWNER PRIOR TO SUBMITTING BID PRICE. THIS PROJECT MAY REQUIRE PHASING SEQUENCES AND POTENTIAL PREMIUM TIME WORK AND ALL COSTS FOR SUCH SHALL BE INCLUDED IN THE BID PRICE, PROVIDE ADEQUATE WORK FORCE AND EQUIPMENT, AND INCLUDE PREMIUM TIME AS MAY BE REQUIRED IN ORDER TO ADHERE TO THE PROJECT SCHEDULE. ADDITIONALLY, ENSURE THAT LONG LEAD ITEMS DO NOT IMPACT THE PROJECT'S SCHEDULE OR PHASING.
22. COORDINATE EXACT REQUIREMENTS WITH THE LOCAL UTILITY COMPANIES AND PROVIDERS (ELECTRIC, TELEPHONE, CABLE TV, ETC.) AND INCLUDE ALL COSTS FOR PROVIDING TEMPORARY AND PERMANENT SERVICES REQUIRED FOR THIS PROJECT IN THE BID PRICE. BID PRICE SHALL INCLUDE, BUT NOT BE LIMITED TO, EXCAVATION, RACEWAYS, BACKFILL, EQUIPMENT, EQUIPMENT PADS, BACKBOARDS, METERS, GROUNDING, UTILITY ENGINEERING AND IMPACT FEES.
23. CONDUCT WORK OPERATIONS AND DEBRIS REMOVAL IN A MANNER THAT ENSURES MINIMUM INTERFERENCE WITH NORMAL BUSINESS OPERATIONS, TRAFFIC, PARKING, ETC. ONGOING IN ADJACENT OCCUPIED SPACES OR FACILITIES. PROVIDE ALL THAT IS REQUIRED TO EFFECTIVELY PROTECT SURROUNDING OCCUPANTS, EQUIPMENT, FINISHES, FURNITURE, ETC. FROM DAMAGE OR EXCESSIVE NOISE THROUGHOUT THE DURATION OF THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR ANY LOSSES OR DAMAGE. ANY DAMAGE RESULTING FROM THE FAILURE TO ADHERE TO THIS REQUIREMENT, RESTORE DAMAGED ELEMENTS TO ORIGINAL CONDITION BY THE CONTRACTOR TO THE SATISFACTION OF THE ARCHITECT/ENGINEER AND OWNER, AT NO ADDITIONAL COSTS. REPORT OF ANY SUCH OCCURRENCE TO THE ARCHITECT/ENGINEER AND OWNER IMMEDIATELY AND AWAIT WRITTEN DIRECTION PRIOR TO PROCEEDING WITH REPAIRS.
24. COORDINATE THE LOCATION OF ALL LIGHT FIXTURES, DEVICES AND BOXES WITH WINDOWS, MIRRORS, MILLWORK, CABINETS, GLASS CURTAIN WALLS, AND GLASS WALLS PRIOR TO INSTALLATION OF CONDUITS OR BOXES. REVIEW ALL CONTRACT DRAWINGS TO ASCERTAIN ANY CONFLICTS PRIOR TO BIDDING. OBTAIN CLARIFICATION FROM A/E PRIOR TO BID. CONTRACTOR SHALL NOT BE ENTITLED TO ADDITIONAL COMPENSATION FOR WORK REQUIRED TO RELOCATE OUTLET BOXES OR RACEWAYS FOR COORDINATION WITH OTHER TRADE'S WORK.
25. THE EXCLUSIVELY DEDICATED SPACE EXTENDING FROM FLOOR TO 6' ABOVE EQUIPMENT OR STRUCTURAL CEILING, WHICHEVER DISTANCE IS LOWER, WITH A WIDTH AND DEPTH OF THE PANELBOARD OR SWITCHBOARD MUST BE CLEAR OF ALL PIPING, DUCTS, EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NEC.
26. PROVIDE ALL TEMPORARY NORMAL LIGHTING, EMERGENCY LIGHTING AND EXIT SIGNAGE REQUIRED DURING THE PROJECT CONSTRUCTION PHASE.
27. THE INFRASTRUCTURE FOR THE ACCESS CONTROL/ CCTV OR SECURITY ELECTRONICS SYSTEM (CONDUITS, ELECTRICAL BOXES) SHALL BE INSTALLED BY DIVISION 26. THE ACCESS CONTROL/ CCTV OR SECURITY ELECTRONICS SYSTEM CONTRACTOR SHALL PROVIDE AND INSTALL THE WIRE AND CABLE FOR THE SYSTEM AND ALL REQUIRED EQUIPMENT. INSTALLATION OF THE CONDUITS AND ELECTRICAL BOXES SHALL BE UNDER THE DIRECT SUPERVISION OF THE ACCESS CONTROL/ CCTV SYSTEM CONTRACTOR. COORDINATE EXACT LOCATIONS OF DEVICES, RACEWAY LOCATIONS, SIZES AND QUANTITY, CONDUIT STUB-UPS PRIOR TO ROUGH IN.
28. THE INFRASTRUCTURE FOR THE VOICE/DATA TELECOMMUNICATIONS SYSTEM (CONDUITS, ELECTRICAL BOXES) SHALL BE INSTALLED BY DIVISION 26. THE TELECOMMUNICATIONS CONTRACTOR SHALL PROVIDE AND INSTALL THE WIRE AND CABLE FOR THE SYSTEM AND ALL REQUIRED EQUIPMENT AND COMPONENTS. INSTALLATION OF THE CONDUITS AND ELECTRICAL BOXES SHALL BE UNDER THE DIRECT SUPERVISION OF THE TELECOMMUNICATIONS CONTRACTOR. COORDINATE EXACT LOCATIONS OF DEVICES, RACEWAY LOCATIONS, SIZES AND QUANTITY, CONDUIT STUB-UPS PRIOR TO ROUGH IN.
29. PROVIDE 120V 20A 5-20R RECEPTACLE AT ALL FAN COIL UNITS FOR CONDENSATE PUMP POWER AND HOT WATER RECIRCULATING PUMPS, WHETHER SHOWN ON PLANS OR NOT. RECEPTACLE IS TO BE CONNECTED TO NEAREST 120V RECEPTACLE CIRCUIT.
30. PROVIDE 120V CONNECTION TO ALL MOTORIZED DAMPERS INDICATED ON MECHANICAL PLANS. WHETHER SHOWN ON DIVISION 26 DRAWINGS OR NOT. MOTORIZED DAMPERS WITHIN THE SAME AREA CAN BE CIRCUITED TO THE SAME CIRCUIT (I.E., DEDICATED CIRCUIT IS NOT REQUIRED).
31. UNLESS NOTED AS EXISTING, ALL ELECTRICAL INDICATED ON THE CONTRACT DOCUMENTS SHALL BE NEW, SHALL BE U.L. LISTED, AND SHALL BEAR A U.L. LABEL WHERE NO U.L. LABEL OR LISTING IS AVAILABLE, THE MATERIAL SHALL BE LISTED WITH AN APPROVED, NATIONALLY RECOGNIZED ELECTRICAL TESTING AGENCY.
32. PROVIDE EXPERIENCED, QUALIFIED AND RESPONSIBLE SUPERVISION FOR ALL WORK REQUIRED BY THE CONTRACT DOCUMENTS. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, TO THE SATISFACTION OF THE ARCHITECT/ENGINEER AND OWNER.
33. THE ELECTRICAL PORTION OF THE CONTRACT DOCUMENTS ARE COORDINATED WITH THE DESIGN BASIS EQUIPMENT SPECIFIED BY DIVISION 26 AND OTHER DIVISIONS. WHERE THE CONTRACTOR ELECTS TO SUBSTITUTE A PRODUCT IN LIEU OF PROVIDING THE DESIGN BASIS, AND SAID SUBSTITUTION IS ACCEPTED BY THE A/E AND OWNER, THE CONTRACTOR SHALL MAKE ALL CORRECTIONS TO THE ELECTRICAL SYSTEM NECESSARY IN ORDER TO ENSURE A COMPLETE AND OPERATIONAL INSTALLATION OF THE EQUIPMENT AT NO ADDITIONAL COSTS. WHERE THE CONTRACTOR'S DESIGN SUBSTITUTION RESULTS IN THE NEED FOR THE ENGINEER TO REVISE THE CONTRACT DOCUMENTS, THE ENGINEER RESERVES THE RIGHT TO REQUEST COMPENSATION FROM THE CONTRACTOR FOR SAID SERVICES.
34. MAINTAIN A CURRENT AND ACCURATE SET OF PROJECT RECORD DOCUMENTS (AS-BUILTS) AT THE SITE THROUGHOUT THE DURATION OF THE PROJECT. RECORD DRAWINGS SHALL BE UPDATED EACH DAY TO REFLECT THE ACTUAL LOCATIONS, SIZES, ROUTING, ETC. OF EACH PORTION OF THE ELECTRICAL SYSTEM AFFECTED BY THIS WORK. A FINAL SET OF RECORD DOCUMENTS SHALL BE ISSUED TO THE A/E FOR REVIEW AND THEN SUBMITTED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF FINAL ACCEPTANCE. PROVIDE RECORD DRAWINGS OF THE ACTUAL INSTALLATION INCLUDING SINGLE LINE DIAGRAM, POWER RISER DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM, SITE PLANS AND ALL ELECTRICAL FLOOR PLANS, DETAILS, PANEL SCHEDULES, ETC.
35. OWNER FURNISHED EQUIPMENT: VERIFY AND COORDINATE ELECTRICAL ROUGH IN REQUIREMENTS FOR OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH IN.
36. WHERE SUBMITTED EQUIPMENT REQUIRES REVISION TO OVERCURRENT PROTECTION, CONDUIT OR WIRING, MAKE CHANGES IN ACCORDANCE WITH APPLICABLE CODES.

APPLICABLE CODES

1. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), INCLUDING (BUT NOT LIMITED TO):
   a. NATIONAL ELECTRICAL CODE (NEC), NFPA 70 - 2023
   c. LIFE SAFETY CODE, NFPA 101 – 2024
   d. EMERGENCY AND STANDBY POWER SYSTEMS, NFPA 110 – 2022
   e. STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS, NFPA 780
2. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), INCLUDING (BUT NOT LIMITED TO):
   a. NATIONAL ELECTRICAL SAFETY CODE, ANSI C2
3. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
4. FEDERAL COMMUNICATION COMMISSION (FCC)
5. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
6. INSULATED CABLE ENGINEERS ASSOCIATION (ICEA)
7. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)
8. NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
9. AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM)
10. ILLUMINATION ENGINEERING SOCIETY (IES)
11. ANTI-FRICTION BEARING MANUFACTURERS ASSOCIATION (AFBMA)
12. BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL, INC. (BOCA)
13. INTERNATIONAL CODE COUNCIL (ICC):
    a. INTERNATIONAL BUILDING CODE (IBC)
14. UNIFORM BUILDING CODE (UBC)
15. INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO)
    a. INTERNATIONAL ENERGY CONSERVATION CODE (IECC), ENDORSED BY THE U.S. DEPARTMENT OF ENERGY (DOE)
16. NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION INSTALLATION STANDARDS (NECA)
17. AMERICANS WITH DISABILITIES ACT (ADA)
18. APPLICABLE STATE AND LOCAL CODES, AMENDMENTS, REGULATIONS, AND PRACTICES,
19. APPLICABLE REGULATORY REQUIREMENTS AND ADVISORY PRACTICES OF APPROPRIATE
    a. AUTHORITIES HAVING JURISDICTION (AHJs).
20. APPLICABLE STANDARDS, REGULATIONS, AND PRACTICES OF THE OWNER.
21. CODES APPLICABLE TO FLORIDA ONLY, INCLUDING:
    a. FLORIDA BUILDING CODE
    b. FLORIDA ENERGY CONSERVATION
    c. FLORIDA FIRE PREVENTION CODE

WHERE THERE IS A DISCREPANCY BETWEEN ABOVE GENERAL NOTES AND SPECIFICATIONS, WHERE APPLICABLE, SPECIFICATIONS SHALL BE FOLLOWED

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722 WEST HIGHWAY 22
WEWAHITCHKA, FL 32465
100% DESIGN

SEAL

BRANDON M. SANDERS
LICENSED
No. 92822
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SCALE

12" = 1'-0"

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY	WWS
APPROVED BY	BMS
CHECKED BY	BMS
DATE	2.6.24

TITLE

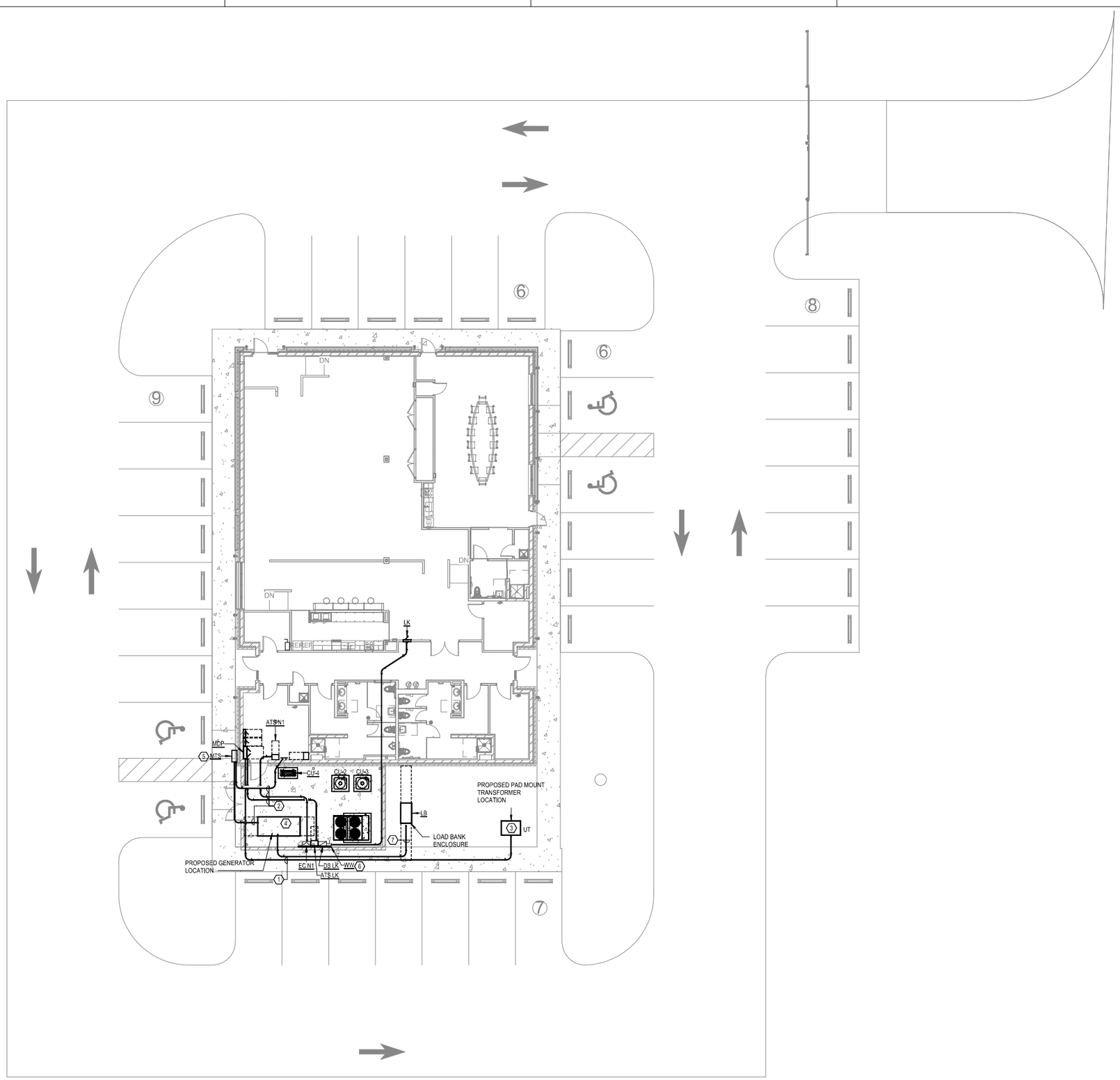
ELECTRICAL GENERAL NOTES

PROJECT NO. 0122062

E-002

SHEET NO.

2/27/2024 1:27:18 PM



1 ELECTRICAL SITE PLAN
3/32" = 1'-0"

N

0 8' 16' 24' 32'
3/32" = 1'-0"

DRAWING NOTES:

1. REFER TO ELECTRICAL ONE LINE DIAGRAM SHEET E601 FOR FEEDER SIZE INFORMATION.

CODED NOTES:

1. UNDERGROUND SECONDARY CONDUIT AND CONDUCTORS FROM UTILITY PAD MOUNTED TRANSFORMER TO PANEL MDP. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET E-601 FOR ADDITIONAL INFORMATION.
2. STAND-BY AND EMERGENCY UNDERGROUND CONDUITS AND CONDUCTORS FROM GENERATOR TO MTS, ATS-LK, ATS-LS AND ATS-N. REFER TO SHEETS EP101 AND E-601 FOR ADDITIONAL INFORMATION.
3. PAD MOUNT UTILITY TRANSFORMER. PROVIDE CONCRETE PAD IN ACCORDANCE WITH UTILITY REQUIREMENTS. REFER TO SHEET E-601 FOR ADDITIONAL INFORMATION.
4. DIESEL GENERATOR IN HURRICANE RATED ENCLOSURE. PROVIDE CONCRETE PAD IN ACCORDANCE WITH MANUFACTURER RECOMMENDED INSTALLATION INSTRUCTIONS. REFER TO SHEET E-601 FOR ADDITIONAL INFORMATION.
5. PROVIDE GENERATOR DOCKING STATION SIMILAR TO TRYSTAR. REFER TO TRANSFER SWITCH SCHEDULE SHEET E601 FOR MORE INFORMATION.
6. PROVIDE WIREWAY, ATS AND DISCONNECT SWITCH MOUNTED ON A STAINLESS STEEL UNISTRUT RACK.
7. CONDUITS AND CONDUCTORS FROM LOAD BANK TO GENERATOR. REFER TO SHEETS EP101 AND E-601 FOR ADDITIONAL INFORMATION.

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TITLE
ELECTRICAL SITE PLAN

PROJECT NO. 0122062

ES100

SHEET NO.

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LIGHTING FIXTURE SCHEDULE

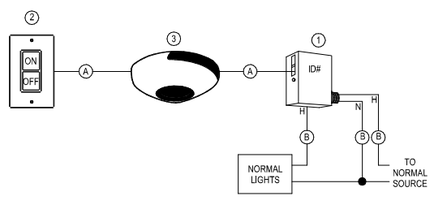
TYPE	DESCRIPTION	MANUFACTURER	MODEL	VOLTAGE	VA	LAMP TYPE	FIXTURE LUMENS	FIXTURE COLOR TEMP (K)	DRIVER/BALLAST	COMMENTS
A	2'x2', LED, RECESSED DIRECT/INDIRECT DROP BASKET FIXTURE - ACT	LITHONIA	2BLT-33L-ADP-120V-EZ1-LP835	120 V	27 VA	LED	3300	3500K	0-10V DIMMING	
B	2'x2', LED, RECESSED DIRECT/INDIRECT DROP BASKET FIXTURE - HARD CEILING	LITHONIA	2BLT-33L-ADP-120V-EZ1-LP835	120 V	27 VA	LED	3300	3500K	0-10V DIMMING	PROVIDE DRYWALL GRID ADAPTER FOR RECESSED MOUNTING IN GYP CEILING
C	4" RECESSED, LED DOWNLIGHT, UL WET LOCATION LISTED	LITHONIA	LDN4-35/10-L04-120V	120 V	11 VA	LED	1000	3500K	0-10V DIMMING	
C1	4" RECESSED, EXTERIOR LED DOWNLIGHT, UL WET LOCATION LISTED	DALS	RGR4-CC-XX	120 V	14 VA	LED	1000	3500K	0-10V DIMMING	ARCHITECT TO CHOOSE TRIM COLOR.
CE	4" RECESSED, LED DOWNLIGHT, UL WET LOCATION LISTED WITH INTEGRAL EMERGENCY BATTERY PACK.	LITHONIA	LDN4-35/10-L04-120V-EZ10-ELSD	120 V	11 VA	LED	1000	3500K	0-10V DIMMING	
D	WALL MOUNTED LINEAR VANITY LIGHT	MARK ARCHITECTURAL LIGHTING	SL4LA-OP-3-80CRI-3500K-400LMF	120 V	30 VA	LED	1200	3500K	0-10V DIMMING	
F	SURFACE MOUNTED LINEAR LED FIXTURE	LITHONIA	CSS-L48-4000LM-MVOLT-40K-80CRI	120 V	35 VA	LED	4000	4000K	0-10V DIMMING	
F1	SURFACE MOUNTED LINEAR LED FIXTURE	LITHONIA	CSS-L24-2000LM-MVOLT-40K-80CRI	120 V	15 VA	LED	2150	4000K	0-10V DIMMING	
G	LED SURFACE MOUNT EXTERIOR UP & DOWN SCONCE	LITHONIA	OLLWDU LED-P1-4000K-MVOLT	120 V	15 VA	LED	947	4000K	0-10V DIMMING	
H	LED EXTERIOR ABOVE DOOR EGRESS FIXTURE	LITHONIA	WEDGE2-P1-40K-80CRI-VF-MVOLT	120 V	18 VA	LED	1200	4000K		
P16	16' CONFERENCE TABLE, PENDANT MOUNTED, DIRECT/INDIRECT LIGHT FIXTURE.	ACUITY	PLLR1QID-LLP-16FT-MSL8-80CRI-35K-700LMF-I1000LMF-SCT-MVN-SBL-MVOLT-WHSC-ZT-SCEP-36A-WHTCY-WCRDMCS	120 V	121 VA	LED	4000	4000K	0-10V DIMMING	PROVIDE MOUNTING HARDWARE TO SUSPEND FIXTURE FROM CEILING, BOTTOM OF FIXTURE @ 8' AFF
S	4' LED, BACK OF HOUSE, STRIP FIXTURE.	LITHONIA	CSS-L48-4000LM-MVOLT-40K-80CRI	120 V	121 VA	LED	4000	4000K	0-10V DIMMING	MOUNT FIXTURE AT 10' AFF.
X	RECESSED EDGE LIT LED EXIT SIGN, CEILING MOUNTED, RED LETTERS, CLEAR BACKGROUND AND SINGLE OR DOUBLE FACE, AC ONLY	LITHONIA	EDGR	120 V	10 VA	LED	NA	NA	NA	REFER TO PLANS FOR NUMBER OF FACES

NOTES: (APPLICABLE TO LUMINAIRE SCHEDULE ONLY)
1. CATALOG NUMBERS FOR LUMINAIRES INDICATE THE TYPE AND QUALITY OF THE LUMINAIRE TO BE PROVIDED BY THE CONTRACTOR AND ARE GENERAL IN NATURE. THE CATALOG NUMBERS ARE NOT INTENDED TO INDICATE AN ACTUAL ORDER MODEL NUMBER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE LUMINAIRES WITH THE TYPE OF DRIVER, LENS OR DIFFUSER, AND CONSTRUCTION FEATURES AS INDICATED IN THE SPECIFICATIONS.
2. COORDINATE CONTROL COMPATIBILITY BETWEEN DRIVER TYPES FOR ALL DIMMED LUMINAIRES WITH MANUFACTURER AND MODEL OF DIMMING CONTROL DEVICES.
3. PROVIDE EXIT SIGNS WITH SINGLE FACE OR DOUBLE FACE AND WITH OR WITHOUT CHEVRONS AS INDICATED ON THE DRAWINGS. PROVIDE RED OR GREEN LETTERING AS REQUIRED BY AHJ.
4. ALL MOUNTING HEIGHTS SHALL BE AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY ARCHITECT OR ENGINEER. MOUNTING HEIGHTS OF WALL MOUNTED LUMINAIRES SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE LUMINAIRE. MOUNTING HEIGHTS OF CEILING SUSPENDED LUMINAIRES SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE BOTTOM OF THE LUMINAIRE.

	TYPICAL SPACE TYPE	TOGGLE SWITCH(ES)	CEILING/WALL MOUNTED OCCUPANCY SENSOR(S)	WALL BOX OCCUPANCY SENSOR(S) WITH SINGLE OUTPUT RELAY	WALL BOX OCCUPANCY SENSOR(S) WITH DIMMING	LUMINAIRE WITH BUILT-IN OCCUPANCY SENSOR	DIGITAL SWITCH(ES)	CEILING/WALL MOUNTED OCCUPANCY SENSOR(S)	INDOOR PHOTOSENSOR(S)	OUTDOOR PHOTOCELL(S)	ASTRONOMICAL TIMECLOCK	FRESCA	SWITCHING	STEP-DIMMING	FULL RANGE DIMMING	CENTRALIZED, CIRCADIAN RHYTHM CCT CONTROL	VACANCY SENSOR TIMEOUT DELAY (IN MINUTES)	LIGHTS MANUAL ON	LIGHTS AUTOMATIC ON TO 100% LIGHT LEVEL UPON OCCUPANCY	LIGHTS AUTOMATIC ON TO 50% LIGHT LEVEL UPON OCCUPANCY; 100% MANUAL ON	TIMECLOCK SCHEDULED "ON" TIME WITH PHOTOCELL OVERRIDE	TIMECLOCK SCHEDULED "OFF" TIME WITH PHOTOCELL OVERRIDE	OCC. SENSOR OVERRIDE TIMECLOCK DURING "OFF" HOURS	DAYLIGHTING ON ALL LIGHTS TO MAINTAIN MINIMUM 50FC AT 30" AFF	NOTES
1	OPEN OFFICE	-	-	-	-	-	-	X	X	-	-	-	-	-	X	-	20	-	X	-	-	-	-	-	-	-
2	CONFERENCE ROOM	-	-	-	-	-	-	X	X	-	-	-	-	-	X	-	20	-	X	-	-	-	-	-	-	-
3	TOILET ROOM	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	20	-	X	-	-	-	-	-	-	-
4	ELEC/MECH ROOM	X	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
5	IT/AV ROOM	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	20	X	-	-	-	-	-	-	-	-
6	STORAGE ROOM	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	5	X	-	-	-	-	-	-	-	-
7	BREAKROOM	-	-	-	-	-	-	X	X	-	-	-	-	-	X	-	20	-	X	-	-	-	-	-	-	-
8	JANITOR CLOSET	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	5	X	-	-	-	-	-	-	-	-
9	EXTERIOR SCONCE LIGHTS	-	-	-	-	-	-	-	-	-	X	X	-	X	-	-	-	-	-	-	-	-	-	-	-	PHOTOCELL ON/OFF PER 2018 IECC C405.2.6.1
10	EXTERIOR WALL PACKS	-	-	-	-	-	-	-	-	-	X	X	-	X	-	-	-	-	-	-	X	X	-	-	-	SEE NOTE 1 BELOW
10	POLE MOUNTED LIGHTS	-	-	-	-	-	-	-	-	-	X	X	-	X	-	-	-	20	-	-	X	X	-	-	-	PHOTOCELL ON/OFF WITH FIXTURE MOUNTED MOTION SENSOR DIMMING

NOTES: (APPLICABLE TO LIGHTING CONTROL MATRIX ONLY)
1. PHOTOCELL ON/OFF, TIMECLOCK OFF 1HR AFTER CLOSE OF BUISNESS, TIMECLOCK ON 1HR BEFORE BUISNESS OPENING, PER 2018 IECC C405.2.6.1

2 LIGHTING CONTROL MATRIX
N.T.S

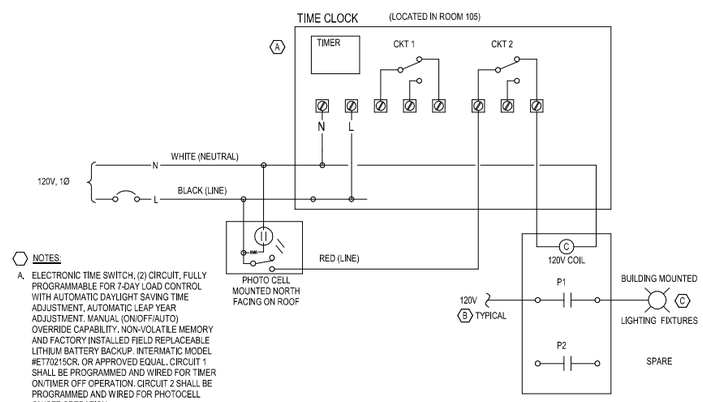


WIRE LEGEND	
A	CAT 6 (LOW VOLTAGE)
B	CLASS 1 (LINE VOLTAGE)

EQUIPMENT LEGEND	
1	RELAY POWER PACK
2	LOW VOLTAGE WALL SWITCH
3	CEILING OCCUPANCY/VACANCY SENSOR

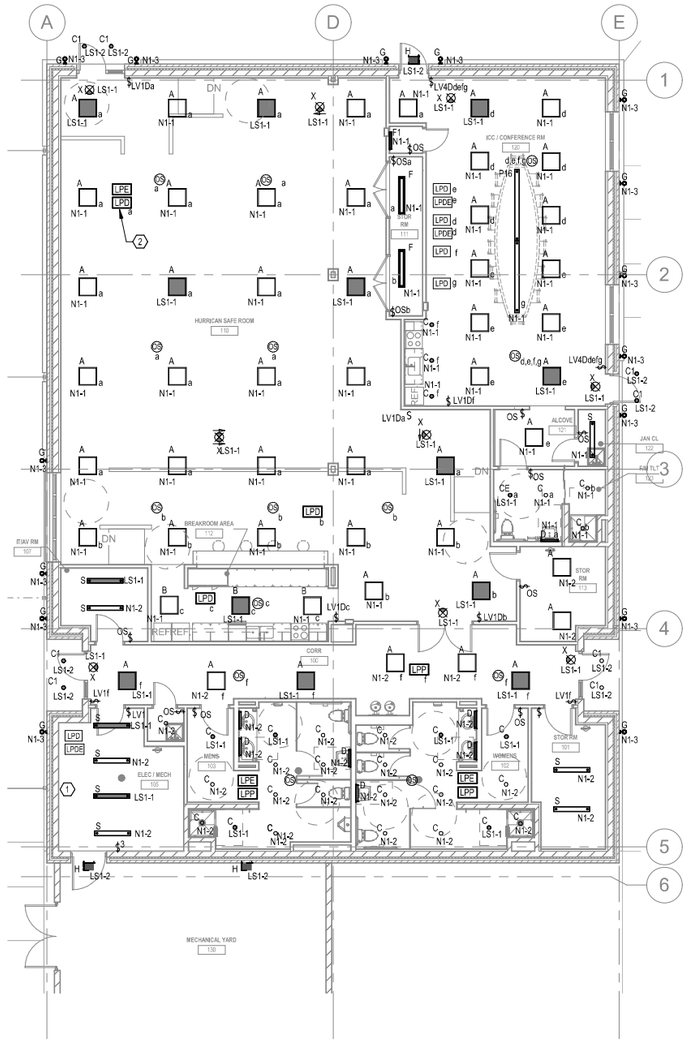
LIGHTING CONTROL NOTES:
1. REFER TO FLOOR PLANS FOR QUANTITIES OF CONTROL DEVICES SUCH AS OCCUPANCY SENSORS, AND CONTROL SWITCHES.
2. PROVIDE ALL PROGRAMMING AS REQUIRED.

4 LOW VOLTAGE LIGHTING CONTROL DIAGRAM
N.T.S



NOTES:
A. ELECTRONIC TIME SWITCH, (2) CIRCUIT, FULLY PROGRAMMABLE FOR 7-DAY LOAD CONTROL WITH AUTOMATIC DAYLIGHT SAVING TIME ADJUSTMENT, AUTOMATIC LEAP YEAR ADJUSTMENT. MANUAL (ON/OFF/AUTO) OVERRIDE CAPABILITY. NON-VOLATILE MEMORY AND FACTORY INSTALLED FIELD REPLACEABLE LITHIUM BATTERY BACKUP. INTERMATIC MODEL #ET70215CR, OR APPROVED EQUAL. CIRCUIT 1 SHALL BE PROGRAMMED AND WIRED FOR TIMER ON/TIMER OFF OPERATION. CIRCUIT 2 SHALL BE PROGRAMMED AND WIRED FOR PHOTOCELL ON/OFF OPERATION.
B. REFER TO SHEETS ES100 AND EL101 FOR CIRCUIT INFORMATION.
C. PROVIDE UNSWITCHED CONDUCTOR FOR ALL EMERGENCY BALLASTS, TYPICAL.

3 TIME CLOCK WIRING DIAGRAM "TC"
N.T.S.



1 FIRST FLOOR PLAN - LIGHTING - NEW WORK
1/8" = 1'-0"

N
0 4' 8' 16' 24'
1/8" = 1'-0"

DRAWING NOTES:
1. LIFE SAFETY LIGHTING SHALL BE PROVIDED FROM BUILDING GENERATOR. PROVIDE UNSWITCHED HOT FROM BUILDING EMERGENCY DISTRIBUTION TO ALL EXIT SIGNS AND EMERGENCY LIGHTS INDICATED ON PLANS.

CODED NOTES:
1. REFER TO SHEET EP101 FOR LIGHTING CONTROL TIMECLOCK "TC" LOCATION. SEE TIME CLOCK WIRING DIAGRAM ON THIS SHEET FOR ADDITIONAL INFORMATION.
2. ENSURE LIGHTING POWER PACKS ARE INSTALLED IN ACCESSIBLE CEILING SPACE. THIS NOTE TYPICAL OF LP, LPD, LPE, LPDE.

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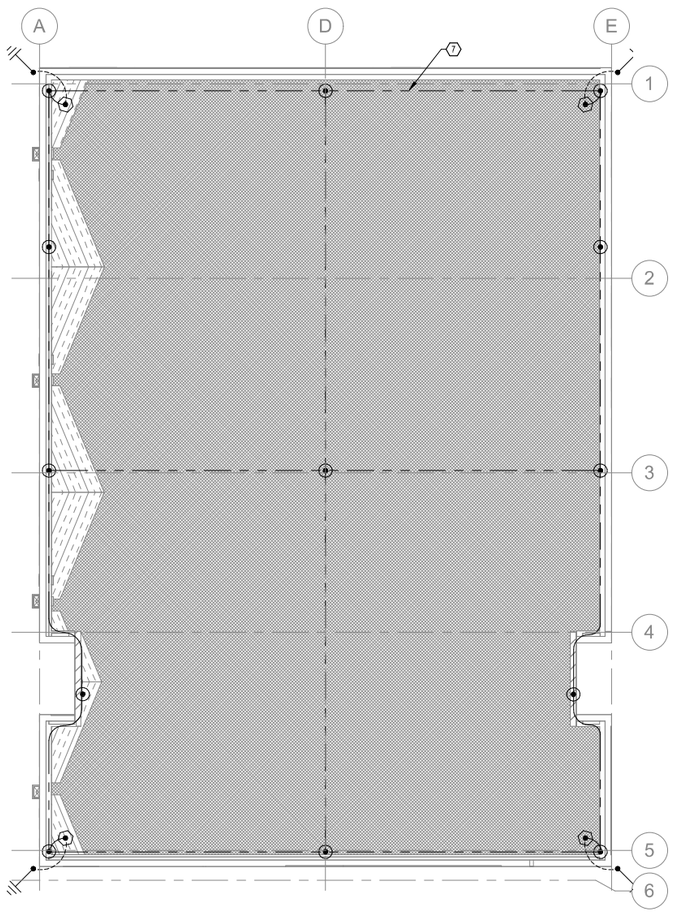
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FIRST FLOOR PLAN - LIGHTING - NEW WORK

PROJECT NO. 0122062

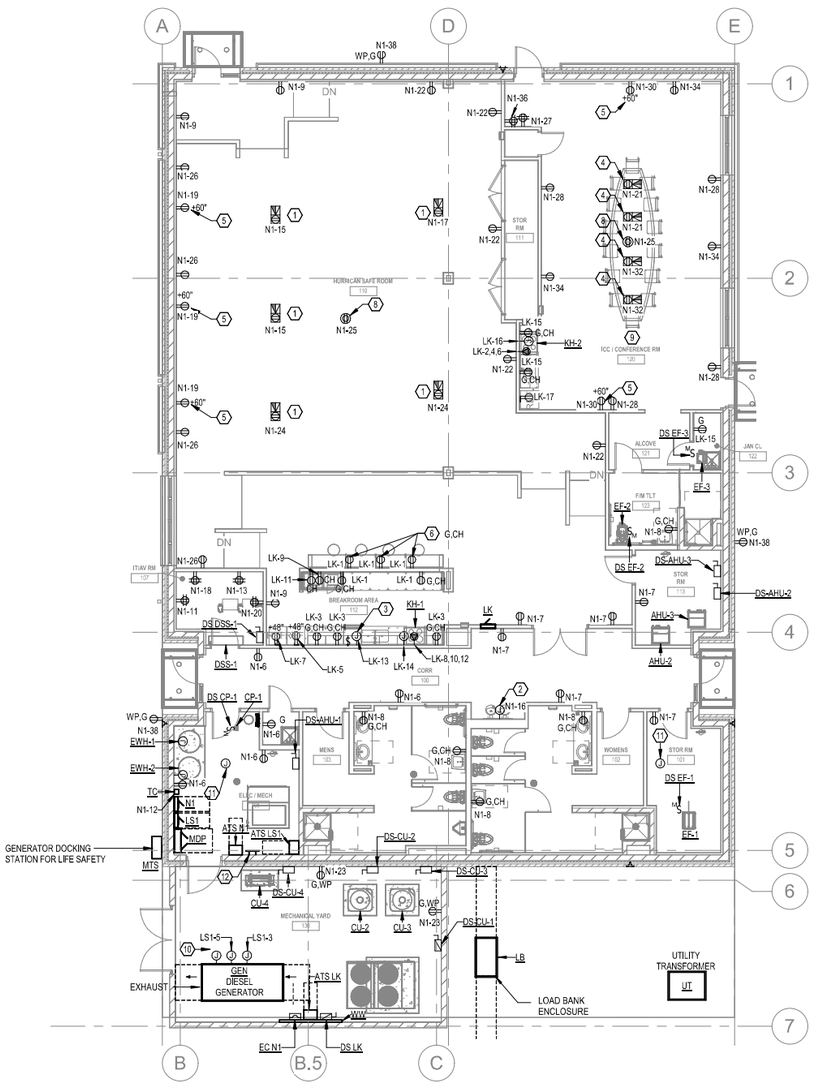
EL101

SHEET NO.

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2 ROOF PLAN - ELECTRICAL EQUIPMENT - NEW WORK
1/8" = 1'-0"



1 FIRST FLOOR PLAN - ELECTRICAL EQUIPMENT - NEW WORK
1/8" = 1'-0"

DRAWING NOTES:

1. REFER TO DISCONNECT AND EQUIPMENT SCHEDULE SHEET E601 FOR CONNECTION INFORMATION.

CODED NOTES:

1. PROVIDE RECESSED 2-GANG RECTANGULAR RAISED FLOOR BOX (HUBBELL #AFB2G50), 5" DEEP MINIMUM, UL514A SCRUBSHIELD COMPLIANT BLACK POWDER COATED COVER (HUBBELL #2GAFBCVRBK), DUPLEX PLATE (HUBBELL #FBMPDUP), TELEDATA KEYSTONE JACK PLATE (HUBBELL #FBMP6KS) AND ALL PARTS AND ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM, EQUALS BY FSR OR WIREMOLD. PROVIDE (1) 1" CONDUIT WITH PULLWIRE TO ACCESSIBLE CEILING SPACE FOR DATA/AV CABLING. REFER TO TELECOM DRAWINGS FOR FURTHER DETAILS. COORDINATE EXACT FLOOR BOX ROUGH IN LOCATION WITH FURNITURE SUPPLIER.
2. PROVIDE 120V POWER FOR WATER FOUNTAIN. WIRE TO 20/1 GFCI BRANCH CIRCUIT BREAKER INDICATED. COORDINATE WITH PLUMBING CONTRACTOR FOR MOUNTING LOCATION.
3. DISHWASHER LOCATION. PROVIDE LOCAL DISCONNECTING MEANS FOR DISHWASHER PER NEC 422.31.
4. PROVIDE RECESSED 2-GANG RECTANGULAR FLOOR BOX (HUBBELL #CFB2G30), UL514A SCRUBSHIELD COMPLIANT BLACK POWDER COATED COVER (HUBBELL #2GAFBCVRBK), DUPLEX PLATE (HUBBELL #FBMPDUP), TELEDATA KEYSTONE JACK PLATE (HUBBELL #FBMP6KS) AND ALL PARTS AND ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM. EQUALS BY FSR OR WIREMOLD. PROVIDE (1) 1" CONDUIT WITH PULLWIRE TO ACCESSIBLE CEILING SPACE FOR DATA/AV CABLING. REFER TO TELECOM DRAWINGS FOR FURTHER DETAILS. COORDINATE EXACT FLOOR BOX ROUGH IN LOCATION WITH FURNITURE SUPPLIER.
5. TV LOCATION. PROVIDE LEGRAND #TV3WTVSSW OR EQUAL 3-GANG RECESSED TV BACKBOX. PROVIDE DUPLEX RECEPTACLE IN BOX. REFER TO TELECOM DRAWINGS FOR TELE/AV REQUIREMENTS. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
6. PROVIDE 20A DUPLEX OUTLET WITH TYPE A AND TYPE C USB OUTLETS, BASIS OF DESIGN IS LEVITON G5AC2. OUTLETS MOUNTED IN WALL ABOVE COUNTER. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL PLANS AND MILL WORK PRIOR TO CONSTRUCTION.
7. PROVIDE COMPLETE A UL MASTER LABELED LIGHTNING PROTECTION SYSTEM INCLUDING PLANS AND INSTALLATION DETAILS FOR REVIEW BY ENGINEER OF RECORD. LIGHTNING PROTECTION DEVICES AND LOCATIONS INDICATED HERE ARE DIAGRAMMATIC FOR COST ESTIMATING ONLY.
8. CEILING MOUNTED PROJECTOR RECEPTACLE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS. COORDINATE LOCATION OF CEILING MOUNTED PROJECTOR POWER AND DATA OUTLETS.
9. DATA, COMM, A/V WORK IN ROOM 120 IS LIMITED TO BOX AND CONDUIT WITH PULLSTRING ONLY. CONTRACTOR TO PROVIDE PATHWAY BACK TO IT CABINET LOCATED IN ROOM 120. CABLES PROVIDED, INSTALLED AND TERMINATED BY OTHERS.
10. PROVIDE GENERATOR AUX CIRCUITS AS REQUIRED BY GENERATOR MANUFACTURER(BATTERY CHARGER, BLOCK HEATER, ETC). PROVIDE ADDITIONAL CONNECTIONS FROM ATS TO GENERATOR CONTROL PANEL. REFER TO DETAIL 1/E-502.
11. PROVIDE POWER FOR MOTORIZED DAMPERS. VERIFY EXACT LOCATION WITH MECHANICAL PRIOR TO INSTALLATION.
12. REFER TO TELECOMMUNICATION DRAWINGS FOR GROUND BAR DETAILS

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GULF COAST ELECTRICAL CO-OP

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722 WEST HIGHWAY 22
WEWAHITCHKA, FL 32465
100% DESIGN

SEAL



SCALE

1/8" = 1'-0"

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY	WWS
APPROVED BY	BMS
CHECKED BY	BMS
DATE	2.6.24

TITLE

FIRST FLOOR AND ROOF PLAN - ELECTRICAL EQUIP. - NEW WORK

PROJECT NO. 0122062

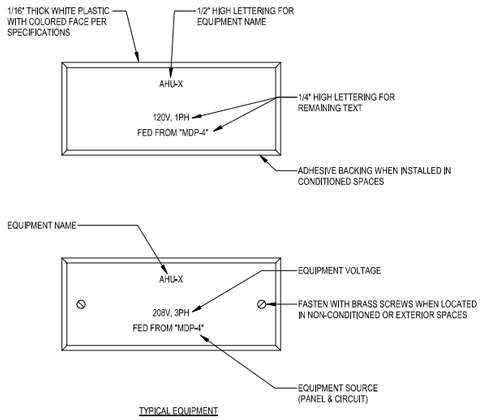
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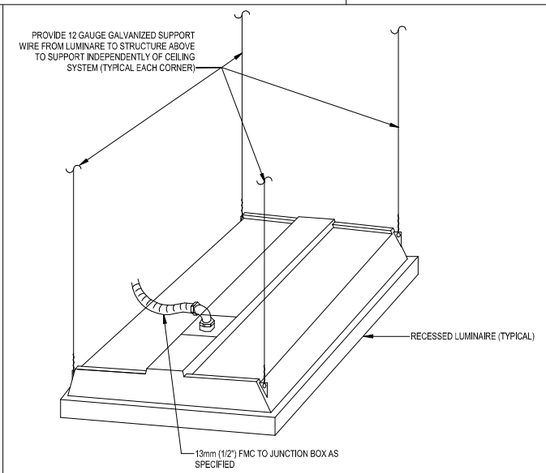
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0 4' 8' 16' 24'
1/8" = 1'-0"

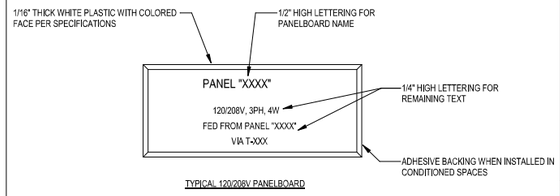
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8 EQUIPMENT NAMEPLATE
N.T.S.



6 LUMINAIRE SUPPORT DETAIL
N.T.S.



4 PANELBOARD NAMEPLATE
N.T.S.

CONDUCTORS:

1. ALL WIRE SHALL BE SIZED AS SHOWN ON THE DRAWINGS IF NO SIZE IS SHOWN, THEN WIRE SHALL BE #12 AWG, EXCEPT AS MODIFIED FOR VOLTAGE DROP BY THE TABLE BELOW. REFER TO BRANCH CIRCUIT VOLTAGE DROP TABLES BELOW. BRANCH CIRCUIT WIRING SHALL BE SIZED TO LIMIT THE VOLTAGE DROP TO 3% OF NOMINAL VOLTAGE OR LESS.

120V (BASED ON 1500W LOAD) MIN. CONDUCTOR SIZE
CIRCUIT LENGTH INCREASE FOR VOLTAGE DROP

0 FT - 70 FT	#12 AWG
71 FT - 115 FT	#10 AWG
116 FT - 180 FT	#8 AWG

181 FEET AND LONGER: SUBMIT WIRE SIZE TO ENGINEER OF RECORD FOR WRITTEN APPROVAL.

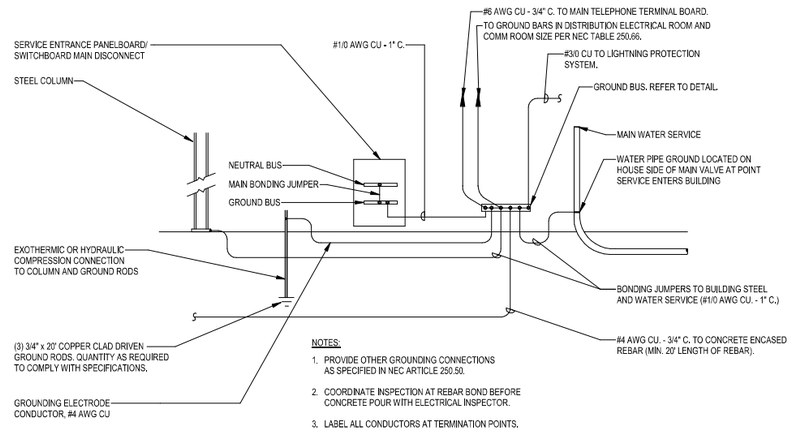
1 CONDUCTORS DETAIL
N.T.S.

IDENTIFICATION OF GROUNDED CONDUCTORS SHALL BE PERFORMED BASED ON NEC ARTICLE 200.

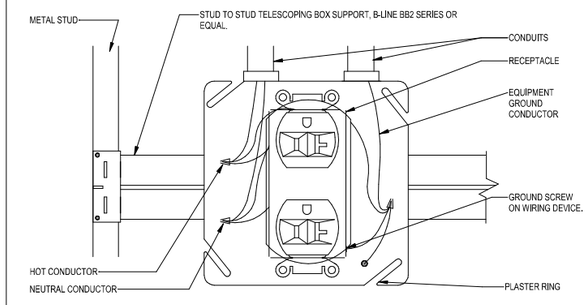
VOLTAGE 208Y/120V	
PHASE A	BLACK
PHASE B	RED
PHASE C	BLUE
NEUTRAL	WHITE
GROUND	GREEN

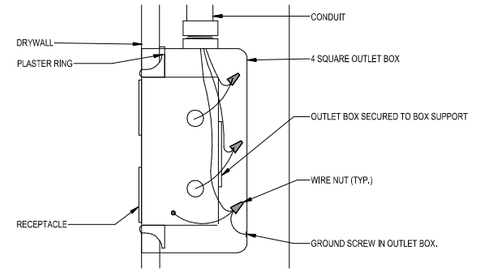
VOLTAGE 480Y/277V	
PHASE A	BROWN
PHASE B	ORANGE
PHASE C	YELLOW
NEUTRAL	GREY
GROUND	GREEN

2 WIRE COLOR TABLE
N.T.S.

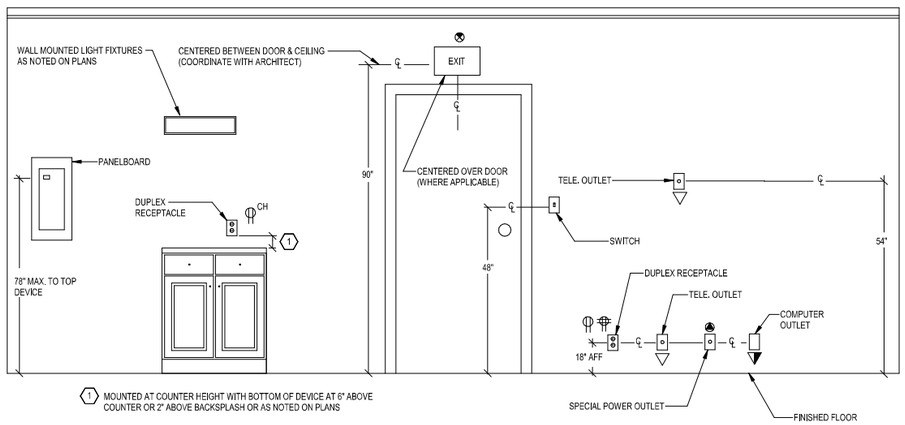


9 SYSTEM GROUNDING DETAIL
N.T.S.

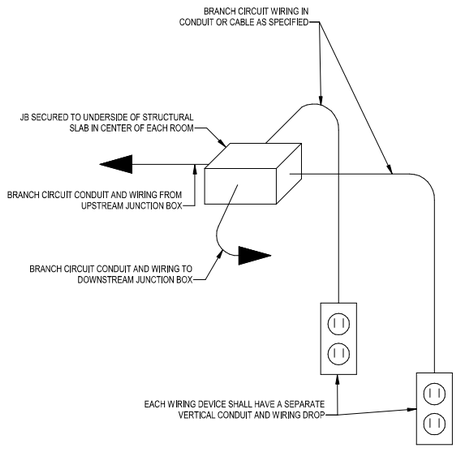




5 TYPICAL RECEPTACLE MOUNTING DETAIL
N.T.S.



7 TYPICAL MOUNTING HEIGHTS
N.T.S.



NOTE: CIRCUIT CONTINUITY TO BE MAINTAINED THROUGH CEILING MOUNTED JUNCTION BOX

3 TYPICAL WIRING DEVICE INSTALLATION DETAIL
N.T.S.

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SEAL
BRIAN M. SARGENT
LICENSE
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

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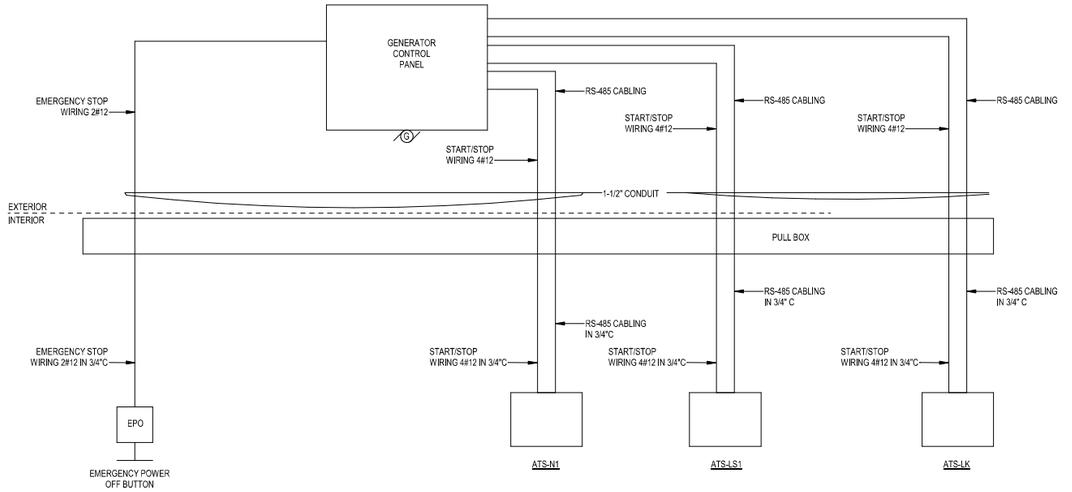
TITLE
ELECTRICAL DETAILS

PROJECT NO. 0122062

E-501

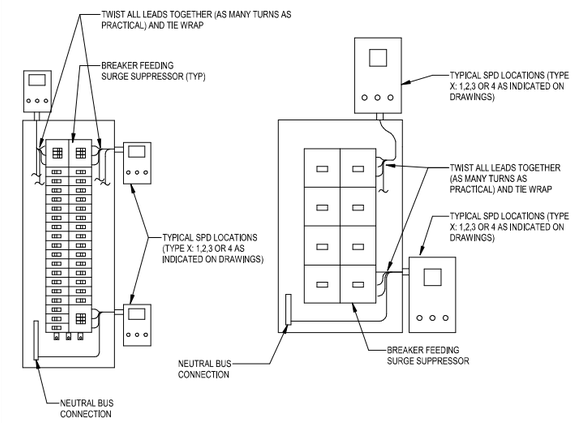
SHEET NO.

2/27/2024 1:27:18 PM



NOTE: THIS DIAGRAM IS INTENDED TO SHOW GENERAL DESIGN INTENT, PROVIDE WIRING AS REQUIRED BASED UPON MANUFACTURER RECOMMENDATIONS AND TO FULFILL ALL PROJECT REQUIREMENTS.

1 GENERATOR CONTROL DIAGRAM
N.T.S.



NOTE: MOUNT SPD DEVICE IN A LOCATION TO MAINTAIN ALL LEADS AS SHORT AS POSSIBLE. (18" MAX.)

2 TYPICAL SPD MOUNTING DETAIL
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ELECTRICAL DETAILS

PROJECT NO. 0122062

E-502

SHEET NO.

2/27/2024 1:27:18 PM

DISCONNECT SCHEDULE

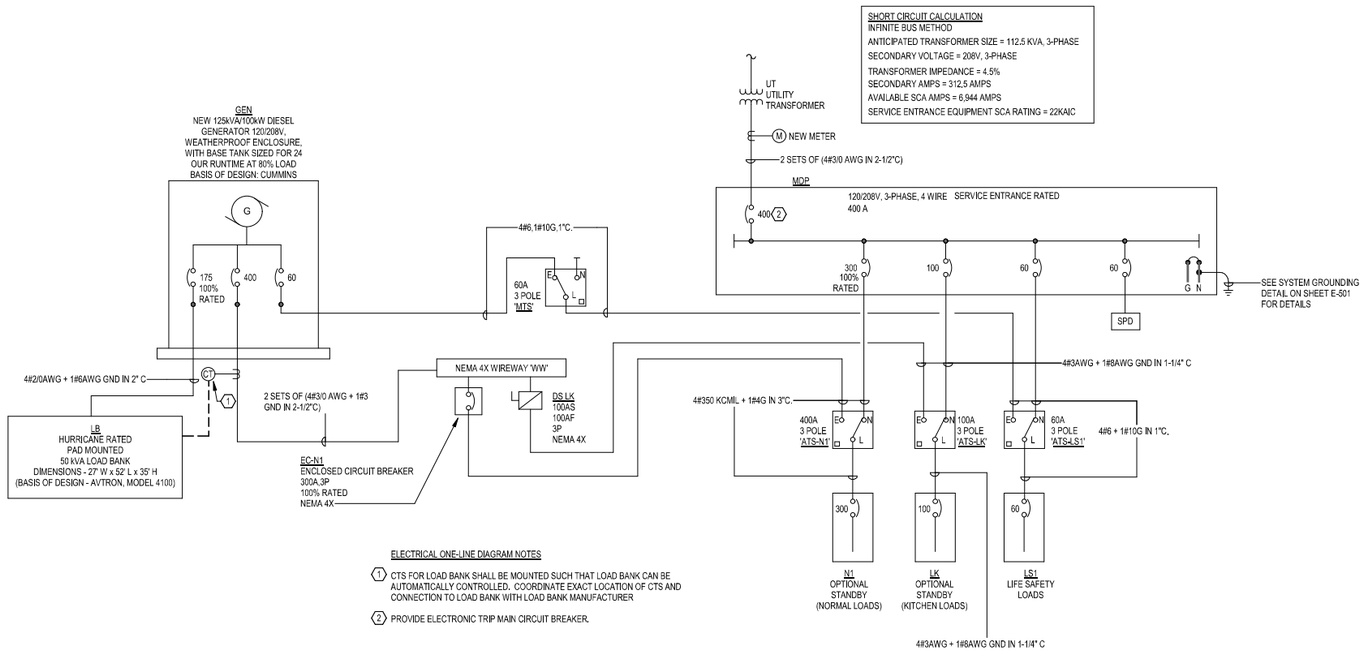
DISC NAME	TYPE OF EQUIPMENT	VOLTAGE RATING	ENCLOSURE RATING	DISC. AMP/POLE	FUSE/BREAKER SIZE	STARTER SIZE	DISCONNECT NOTES
DS CP-1	MOTOR RATED TOGGLE SWITCH	120V/1PH	NEMA 1	20A/1P	N/A	N/A	
DS DSS-1	NON FUSED DISCONNECT SWITCH	208V/1PH	NEMA 1	30A/2P	N/A	N/A	
DS EF-1	MOTOR RATED TOGGLE SWITCH	120V/1PH	NEMA 1	20A/1P	N/A	INTERLOCK WITH AIR HANDLING UNIT AHU-2	
DS EF-2	MOTOR RATED TOGGLE SWITCH	120V/1PH	NEMA 1	20A/1P	N/A	INTERLOCK WITH AIR HANDLING UNIT AHU-3	
DS EF-3	MOTOR RATED TOGGLE SWITCH	120V/1PH	NEMA 1	20A/1P	N/A	INTERLOCK WITH AIR HANDLING UNIT AHU-3	
DS-AHU-1	NON FUSED DISCONNECT SWITCH	208V/3PH	NEMA 1	30A/3P	N/A	N/A	
DS-AHU-2	NON FUSED DISCONNECT SWITCH	208V/1PH	NEMA 1	30A/2P	N/A	N/A	
DS-AHU-3	NON FUSED DISCONNECT SWITCH	208V/1PH	NEMA 1	30A/2P	N/A	N/A	
DS-CU-1	FUSED DISCONNECT SWITCH	208V/3PH	NEMA 4X	200A/3P	150A	N/A	
DS-CU-2	NON FUSED DISCONNECT SWITCH	208V/1PH	NEMA 4X	30A/2P	N/A	N/A	
DS-CU-3	NON FUSED DISCONNECT SWITCH	208V/1PH	NEMA 4X	60A/2P	N/A	N/A	
DS-CU-4	NON FUSED DISCONNECT SWITCH	208V/1PH	NEMA 4X	60A/2P	N/A	N/A	

EQUIPMENT SCHEDULE

EQUIPMENT NAME	IDENTIFICATION	HP	FLA	MCA	VOLT / PH / LOAD (VA)	MOCP	CB AMPS	PANEL	CKT #	FEEDER SIZE	CONDUIT	MOTOR STARTING	DISC MEANS	COMMENTS
AHU-1	AIR HANDLING UNIT			16A	208 V/3-5760 VA	20A	20A	N1	49,51,53	3#12 AWG, #12 AWG GND	3/4"	BY MECH	DS-AHU-1	
AHU-2	AIR HANDLING UNIT			4A	208 V/1-832 VA	15A	15A	N1	45,47	2#12 AWG, #12 AWG GND	3/4"	BY MECH	DS-AHU-2	
AHU-3	AIR HANDLING UNIT			6A	208 V/1-1248 VA	15A	15A	N1	33,35	2#12 AWG, #12 AWG GND	3/4"	BY MECH	DS-AHU-3	
CP-1	CIRCULATION PUMP	1/35			120 V/1-100 VA	15A	15A	N1	10	2#12 AWG, #12 AWG GND	3/4"	BY PLUMB	DS CP-1	
CU-1	CONDENSING UNIT			122A	208 V/3-35136 VA	150	150	N1	Feed Through Lugs	3#1/0 AWG, #6 AWG GND	1-1/2"	BY MECH	DS-CU-1	
CU-2	CONDENSING UNIT			18A	208 V/1-3000 VA	30A	30A	N1	29,31	2#10 AWG, #10 AWG GND	3/4"	BY MECH	DS-CU-2	
CU-3	CONDENSING UNIT			26A	208 V/1-4326 VA	40A	40A	N1	41,43	2#8 AWG, #10 AWG GND	3/4"	BY MECH	DS-CU-3	
CU-4	CONDENSING UNIT			25A	208 V/1-212 VA	40A	40A	N1	37,39	2#8 AWG, #10 AWG GND	3/4"	BY MECH	DS-CU-4	
DSS-1	INDOOR UNIT			1.02A	208 V/1-200 VA	15A	15A	N1	52,54	2#12 AWG, #12 AWG GND	3/4"	BY MECH	DS DSS-1	
EF-1	EXHAUST FAN	1/4			120 V/1-400 VA	15A	15A	N1	56	2#12 AWG, #12 AWG GND	3/4"	BY MECH	DS EF-1	
EF-2	EXHAUST FAN		1A		120 V/1-400 VA	15A	15A	N1	55	2#12 AWG, #12 AWG GND	3/4"	BY MECH	DS EF-2	
EF-3	EXHAUST FAN		1A		120 V/1-400 VA	15A	15A	N1	57	2#12 AWG, #12 AWG GND	3/4"	BY MECH	DS EF-3	
EWH-1	ELECTRICAL WATER HEATER		22A		208 V/3-8000 VA	30A	30A	N1	46,48,50	3#10 AWG, #10 AWG GND	3/4"	BY MECH	DS EF-9	
EWH-2	ELECTRICAL WATER HEATER		22A		208 V/3-8000 VA	30A	30A	N1	40,42,44	3#10 AWG, #10 AWG GND	3/4"	BY MECH	DS EF-8	

TRANSFER SWITCH SCHEDULE

NAME	MOUNTING	VOLTAGE/POLE	SHORT CIRCUIT RATING	DIMENSIONS	NEMA RATING	TYPE	BASIS OF DESIGN
ATS N1	WALL	208V/3P	22KAIC	18" W x 48" H x 13" D	NEMA 1	AUTOMATIC TRANSFER SWITCH, OPEN TRANSITION	ASCO
ATS LK	WALL	208V/3P	10KAIC	18" W x 48" H x 13" D	NEMA 4X	AUTOMATIC TRANSFER SWITCH, OPEN TRANSITION	ASCO
MTS	WALL	208V/3P	10KAIC	30" W x 48" H x 16" D	NEMA 4X	DOCKING STATION, KIRK KEY INTERLOCK, CAMLOCKS	TRYSTAR
ATS LS1	WALL	208V/3P	10KAIC	18" W x 48" H x 13" D	NEMA 1	AUTOMATIC TRANSFER SWITCH, OPEN TRANSITION	ASCO



1 ELECTRICAL ONE-LINE DIAGRAM
N.T.S

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SCALE

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TITLE

ELECTRICAL DIAGRAMS

PROJECT NO. 0122062

E-601

SHEET NO.

2/27/2024 1:27:18 PM

BRANCH PANEL: LK

LOCATION: BREAKROOM 112
SUPPLY FROM: MDP
MOUNTING: Flush
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 10000
MAINS TYPE: MCB
MAINS RATING: 100 A
SERVICE ENTRANCE: No

GENERAL NOTES:
1.) THIS PANEL SERVES OPTIONAL STANDBY, KITCHEN LOADS

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	A		B		C		POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	RECP: 112, 110	1	20 A	1	900 VA	4667...									2
3	RECP: 112	1	20 A	1			540 VA	4667...			3	50 A	1	ELECTRIC RANGE	4
5	REFRIG RECP: 112	1	20 A	1					800 VA	4667...					6
7	REFRIG RECP: 112	1	20 A	1	800 VA	4667...									8
9	MICROWAVE RECP: 112	1	20 A	1			1200...	4667...			3	50 A	1	ELECTRIC RANGE	10
11	MICROWAVE RECP: 112	1	20 A	1					1200...	4667...					12
13	DISHWASHER: 112	1	20 A	1	500 VA	500 VA					1	20 A		HOOD RM 112	14
15	RECP: 123, 122, 120	1	20 A	1			580 VA	500 VA			1	20 A		HOOD RM 120	16
17	REFRIG CONFERENCE RM 120	1	20 A	1					800 VA	0 VA	1	20 A		Spare	18
19	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	20
21	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	22
23	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	24
25	Spare		20 A	1	0 VA	0 VA									26
27	Spare		20 A	1			0 VA	0 VA			3	30 A		SPD	28
29	Spare		20 A	1					0 VA	0 VA					30
			TOTAL...		12033 VA		12153 VA		12133 VA						
			TOTAL...		100 A		101 A		101 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
KITCHEN EQUIPMENT	32980 VA	65,00%	21437 VA		
Motor	1000 VA	112,50%	1125 VA	**TOTAL CONNECTED LOAD:**	36320 VA
Other	500 VA	100,00%	500 VA	**TOTAL EST. DEMAND:**	24902 VA
Receptacle	1840 VA	100,00%	1840 VA	**TOTAL CONNECTED...**	101 A
				TOTAL EST. DEMAND...	69 A

BRANCH CIRCUIT NOTES:
PROVIDE GFCI CIRCUIT BREAKER

Switchboard: MDP

Location: ELEC / MECH 105
Supply From: UT
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A
Neutral Rating: 100.00%

GENERAL NOTES:
1. SERVICE RATED
2. ENCLOSURE DIMENSIONS 32" W x 73" H x 9.5" D, (BASIS OF DESIGN, SQUARE D, I-LINE)

CKT	Circuit Description	# of Poles	Trip Rating	Load	BRANCH CIRCUIT/FEEDER NOTES
1	PANEL LS1	3	60 A	2.0 kVA	
2	PANEL N1	3	300 A	84.9 kVA	
3	PANEL LK	3	100 A	36,3 kVA	
4	SPACE	1	--	--	
5	SPACE	1	--	--	
6	SPD	3	60 A	0,0 kVA	
				123238 VA	
				342 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	3212 VA	100,00%	3212 VA		
Lighting	3643 VA	100,00%	3643 VA	**Total Conn. Load:**	123238 VA
Motor	10140 VA	114,20%	11580 VA	**Total Est. Demand:**	119769 VA
Other	23851 VA	100,00%	23851 VA	**Total Conn. Current:**	342 A
Receptacle	14300 VA	84,97%	12150 VA	**Total Est. Demand...**	332 A
KITCHEN EQUIPMENT	32980 VA	65,00%	21437 VA		
Largest Motor	35136 VA	125,00%	43920 VA		

BRANCH CIRCUIT/FEEDER NOTES:

BRANCH PANEL: N1

LOCATION: ELEC/MECH 105
SUPPLY FROM: MDP
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22000
MAINS TYPE: MCB
MAINS RATING: 300 A
SERVICE ENTRANCE: NO

GENERAL NOTES:
1.) 100% RATED MAIN CIRCUIT BREAKER 2.) THIS PANEL SERVES OPTIONAL STANDBY, NORMAL LOADS 3.) PROVIDE SUBFEED LUG FOR CONDENSING UNIT CU-1

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	A		B		C		POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	LTG: 110,111,112,120,121		20 A	1	1499...	1106...					1	20 A		LTG: 100,113,107,105,,102,121	2
3	LTG: EXT SCONCE		20 A	1			261 VA	--			1	--		HOLD FOR SITE LIGHTING	4
5										900 VA	1	20 A		RECP: 105,100	6
7	RECP: 100, 113, 121, 110		20 A	1	1100...	940 VA					1	20 A		RECP: 103, 102	8
9	RECP: 112, 110		20 A	1			560 VA	100 VA			1	15 A		RECIRC PUMP	10
11	QUAD RECP: 107		20 A	1					360 VA	100 VA	1	20 A		TIMECLOCK	12
13	QUAD RECP: 107		20 A	1	360 VA	0 VA					1	20 A		Spare	14
15	FLR RECP: 110		20 A	1			360 VA	500 VA			1	20 A	1	EWC: 100	16
17	FLR RECP: 110		20 A	1					180 VA	360 VA	1	20 A		QUAD RECP: 107	18
19	TV RECP: 110		20 A	1	600 VA	360 VA					1	20 A		QUAD RECP: 107	20
21	FLR RECP: 120		20 A	1			360 VA	900 VA			1	20 A		RECP: 110	22
23	RECP: EXT 130		20 A	1					380 VA	360 VA	1	20 A		FLR RECP: 110	24
25	CEILING PROJ RECP: 110,120		20 A	1	360 VA	740 VA					1	20 A		TV RECP: 110	26
27	QUAD RECP: 120		20 A	1			360 VA	720 VA			1	20 A		RECP: 120	28
29	CU-2		30 A	2					1500...	400 VA	1	20 A		TV RECP: 120	30
31					1500...	360 VA					1	20 A		FLR RECP: 120	32
33	AHU-3		15 A	2			624 VA	540 VA			1	20 A		RECP: 120	34
35									624 VA	360 VA	1	20 A		QUAD RECP: 120	36
37	CU-4		40 A	2	106 VA	540 VA					1	20 A		EXTERIOR REC	38
39							106 VA	2667...			3	30 A		EWH-2	40
41	CU-3		40 A	2					2163...	2667...					42
43					2163...	2667...									44
45	AHU-2		15 A	2			416 VA	2667...			3	30 A		EWH-1	46
47									416 VA	2667...					48
49	AHU-1		20 A	3	1920...	2667...					2	15 A		DSS-1	50
51							1920...	100 VA							52
53									1920...	100 VA					54
55	EF-2		15 A	1	400 VA	400 VA					1	15 A		EF-1	56
57	EF-3		15 A	1			400 VA	0 VA			1	20 A		Spare	58
59	MOTORIZED DAMPER		20 A	1					1000...	0 VA	1	20 A		Spare	60
61	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	62
63	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	64
65	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	66
67	Spare		20 A	1	0 VA	0 VA									68
69	Spare		20 A	1			0 VA	0 VA			3	30 A		SPD	70
71	Spare		20 A	1					0 VA	0 VA					72
			TOTAL...		31480 VA		25272 VA		28168 VA						
			TOTAL...		266 A		211 A		238 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	3212 VA	100.00%	3212 VA		
Lighting	2638 VA	100.00%	2638 VA	**TOTAL CONNECTED LOAD:**	84920 VA
Motor	9140 VA	115,75%	10580 VA	**TOTAL EST. DEMAND:**	93914 VA
Other	22351 VA	100,00%	22351 VA	**TOTAL CONNECTED...**	236 A
Receptacle	12460 VA	90,13%	11230 VA	**TOTAL EST. DEMAND...**	261 A
Largest Motor	35136 VA	125,00%	43920 VA		

BRANCH CIRCUIT NOTES:
1. PROVIDE GFCI TYPE BREAKER.

BRANCH PANEL: LS1

LOCATION: ELEC/MECH 105
SUPPLY FROM: MDP
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 10000
MAINS TYPE: MCB
MAINS RATING: 60 A
SERVICE ENTRANCE: NO

GENERAL NOTES:
1.) THIS PANEL SERVES LIFE SAFETY LOADS

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	A		B		C		POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	EM LTG: INTERIOR		20 A	1	840 VA	166 VA					1	20 A		EM LTG: EXT WALL MNT	2
3	GEN BATTERY CHARGER		20 A	1			500 VA	0 VA			1	20 A		SPARE	4
5	GEN BLOCK HEATER		20 A	1					500 VA	0 VA	1	20 A		SPARE	6
7	SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE	8
9	SPARE		20 A	1			0 VA	--			1	--		SPACE	10
11	SPARE		20 A	1					0 VA	--	1	--		SPACE	12
13	SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE	14
15	SPACE		--	1			--	--			1	--		SPACE	16
17	SPACE		--	1					--	--	1	--		SPACE	18
19	SPACE		--	1	--	--					1	--		SPACE	20
21	SPACE		--	1			--	--			1	--		SPACE	22
23	SPACE		--	1					--	--	1	--		SPACE	24
25	SPACE		--	1	--	0 VA									26
27	SPACE		--	1			--	0 VA			3	30 A		SPD	28
29	SPACE		--	1					--	0 VA					30
			TOTAL...		1005 VA		500 VA		500 VA						
			TOTAL...		8 A		4 A		4 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	1005 VA	100.00%	1005 VA		
Other	1000 VA	100.00%	1000 VA	**TOTAL CONNECTED LOAD:**	2002 VA
				TOTAL EST. DEMAND:	2002 VA
				TOTAL CONNECTED...	6 A
				TOTAL EST. DEMAND...	6 A

BRANCH CIRCUIT NOTES:
1. PROVIDE GFCI TYPE BREAKER.

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100% DESIGN

SEAL

BRIAN M. SARGENT — LICENSE — No. 92822 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY WWS
APPROVED BY BMS
CHECKED BY BMS
DATE 2.6.24

TITLE

ELECTRICAL SCHEDULES

PROJECT NO. 0122062

E-801

SHEET NO.

2/27/2024 1:27:19 PM

SHEET LIST

SHEET NUMBER	SHEET NAME
T-001	TELECOMM LEGEND, ABBREVIATIONS AND GENERAL NOTES
T-100	TELECOMM SITE PLAN
T-101	FIRST FLOOR PLAN - TELECOMM - NEW WORK
T-501	TELECOMM DETAILS

COMMUNICATION SYMBOLS

SYMBOL	DESCRIPTION
CH	WORK AREA TCO, COMBINATION TELEPHONE/DATA COMMUNICATION OUTLET - 4 DATA PORT FACE PLATE WITH 4 DATA PORTS - (1) CAT6A CABLE PER PORT. 1-1/2" CONDUIT TO ABOVE ACCESSIBLE CEILING. CH = COUNTER HEIGHT
	FLOOR RECEPTACLE. COMBINATION TELEPHONE/DATA COMMUNICATION OUTLET - 4 DATA PORTS - (1) CAT6A CABLE PER PORT. 1-1/2" CONDUIT BELOW SLAB TO NEAREST WALL AND TO ABOVE ACCESSIBLE CEILING.
	CEILING MOUNTED DATA OUTLET - (1) DATA PORT AND CAT6A CABLE
	AUDIO/VIDEO CONNECTION - REFER TO DRAWING NOTES FOR CONNECTION REQRUIEMENTS. 1-1/2" CONDUIT TO ABOVE ACCESSIBLE CEILING.
TTB	TELEPHONE BACKBOARD (WALL MOUNTED)
	4-POST NETWORK EQUIPMENT RACK.
	VERTICAL CABLE MANAGEMENT.
	TELECOMM GROUND BUS BAR, COPPER

DEVICE MOUNTING LOCATION AND HEIGHT NOTES:

1. FOR WHEELCHAIR PATIENT USE MOUNT TELEPHONE OUTLET 36" AFF TO BOTTOM OF OUTLET BOX.
2. DESK PHONES - MOUNT OUTLET 1'-6" AFF.
3. PAY PHONES - MOUNT OUTLET 4'-0" AFF
4. HEIGHT OF TELECART OUTLETS SHALL BE AS INDICATED ON BEDWALLS OR PBPU DETAILS.

GENERAL NOTES

1. PRODUCTS SHALL BE OF MATERIALS THAT ARE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED.
2. WORKING CLEARANCES AROUND ELECTRICAL EQUIPMENT SHALL BE MAINTAINED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 110, COORDINATE EQUIPMENT INSTALLATION TO MAINTAIN REQUIRED CLEARANCES.
3. IF AN OUTLET BOX IS REQUIRED TO BE LOCATED IN AN ASSEMBLY OR PARTITION RATED AS "FIRE/SMOKE" OR "SMOKE" OR IDENTIFIED AS EITHER "FIRE/SMOKE" OR "SMOKE", THEN ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:
   A. THE OUTLET BOX SHALL BE METALLIC.
   B. THE OUTLET BOX OPENINGS SHALL OCCUR ONLY ON ONE SIDE OF THE FRAMING SPACE.
   C. THE OUTLET BOX OPENINGS SHALL NOT EXCEED 16 SQUARE INCHES.
   D. ALL CLEARANCES BETWEEN THE OUTLET BOX AND THE WALL BOARD MATERIAL SHALL BE COMPLETELY SEALED WITH APPROVED MATERIALS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS FOR THE PROJECT.
   E. PROVIDE A SUPPLEMENTAL BARRIER AROUND OUTLETS LARGER THAN 16 INCHES SO THAT THE ORIGINAL RATING OF THE PENETRATION IS MAINTAINED.
   F. THE TOTAL AGGREGATE SURFACE AREA OF THE OUTLET BOX SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET.
   G. THE OUTLET BOX SHALL BE SEPARATED FROM OPENINGS ON THE OPPOSITE SIDE OF THE RATED PARTITION BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
   H. THE OUTLET BOX SHALL BE SECURELY FASTENED TO A PARTITION FRAMING MEMBER BY MEANS OF AN APPROVED ATTACHMENT METHOD.
   I. OPENINGS CUT INTO THE WALL BOARD MATERIAL SHALL NOT EXCEED 1/8 INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.
4. LOCATIONS OF EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT EQUIPMENT LOCATION AND CONNECTION REQUIREMENTS WITH THE APPROPRIATE TRADE PRIOR TO INSTALLATION.
5. FOR EXACT LOCATION OF CEILING MOUNTED EQUIPMENT REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. LOCATIONS OF EQUIPMENT NOT INCLUDED ON THE REFLECTED CEILING PLAN SHALL BE COORDINATED WITH THOSE ITEMS SHOWN. COORDINATION OF CEILING MOUNTED EQUIPMENT SHALL BE PRIOR TO ANY ROUGH-IN, NOTIFY ARCHITECT OF ANY DISCREPANCY.
6. PROVIDE FINAL CONNECTIONS TO OWNER PROVIDED EQUIPMENT WHERE INDICATED ON THE PLAN DRAWINGS.
7. PRIOR TO ROUGH-IN AND INSTALLATION OF ANY FLOOR MOUNTED DEVICE, VERIFY LOCATION WITH THE ARCHITECT.
8. VERIFY AND COORDINATE THE LOCATION OF REQUIRED DIVISION 27 OUTLETS WITH OTHER TRADE DRAWINGS AND OWNER PROVIDED EQUIPMENT.
9. ALL RACEWAY SYSTEMS SHOWN TO SUPPORT THE INSTALLATION OF THE DIVISION 27 EQUIPMENT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. PROVIDE COORDINATION FOR THE INSTALLATION OF THIS RACEWAY SYSTEM WITH THE ELECTRICAL CONTRACTOR.
10. EACH VOICE/DATA OUTLET LOCATION SHOWN, SHALL HAVE A DOUBLE GANG OUTLET BOX WITH A SINGLE GANG PLASTER RING AND (1) 1-1/2" CONDUIT STUBBED UP TO AN ACCESSIBLE LOCATION ABOVE THE FINISHED CEILING OR TO AN ACCESSIBLE CABLE TRAY WHERE PROVIDED. WORK BY ELECTRICAL CONTRACTOR PER SPECS.
11. ALL BONDING AND GROUNDING ELEMENTS UTILIZED FOR STRUCTURED CABLING SYSTEM SHALL BE IN COMPLIANCE WITH SPECIFICATION SECTION 262000.
12. PROVIDE ALL SLEEVES AS REQUIRED FOR ALL LOW VOLTAGE CABLE PATHWAYS. RESTORE THE FIRE RATING OF THE SURFACE.
13. CABLE INSTALLED BELOW SLAB SHALL HAVE INDOOR/OUTDOOR RATED JACKET FOR PROTECTION OF STRUCTURED CABLE.
14. TELECOMMUNICATIONS ROOM SHALL BE BONDED AND GROUNDED IN ACCORDANCE WITH TIA-607B.
15. ALL TELECOMMUNICATIONS CONDUITS SHALL BE PROVIDED WITH BUSHINGS AT EACH END FOR PROTECTION OF STRUCTURED CABLE.

PULL SCHEDULE REQUIREMENTS

CONTRACTOR SHALL PROVIDE PULL SCHEDULE WITH TELECOM SHOP DRAWINGS. TELECOM SHOP DRAWINGS WILL NOT BE REVIEWED UNLESS THEY INCLUDE PULL SCHEDULES.

CAT6A COPPER CABLE COLOR CODING

WHITE	- VOICE
BLUE	- DATA
ORANGE	- WIRELESS
VIOLET	- VIDEO SURVEILLANCE
RED	- FIRE ALARM
BLACK	- BAS & DAS

TELECOMMUNICATIONS ABBREVIATIONS

A/C UNIT	AIR CONDITIONING UNIT
A/E	ARCHITECT/ENGINEER
AAP	ALARM ANNUNCIATOR PANEL
AC	ALTERNATING CURRENT OR ARMORED CABLE
ACC	ACCESSIBLE
ADDL	ADDITIONAL
ADJ	ADJACENT, ADJOINING
ADO	AUTOMATIC DOOR OPENER
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
AMB OR A	AMBIENT
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
BAT	BATTERY
BBC	BONDING BACKBONE CONDUCTOR
BC	BARE COPPER
BD	BOARD
BFF	BELOW FINISH FLOOR
BLDG	BUILDING
BPIP	BOILER PLANT INSTRUMENTATION PANEL
BYP	BY PASS
C	CONDUIT
CAB	CABINET
CALC	CALCULATE
CAP	CAPACITY
CAT	CATALOG
CATV	COMMUNITY ANTENNA TELEVISION
CCR	CONTROL CONTACTOR
CCTV	CLOSED CIRCUIT TELEVISION
CD	CONSTRUCTION DOCUMENTS
CF	CONTRACTOR FURNISHED
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED
CFE	CONTRACTOR FURNISHED EQUIPMENT
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COAX	COAX CABLE
COMM	COMMUNICATION
COMPT	COMPARTMENT
CONC	CONCRETE
CONT	CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
CTV	CABLE TELEVISION
CU	COPPER
CU FT	CUBIC FEET
CUR	CURRENT
DB	DECIBEL OR DIRECT BURIAL
DC	DIRECT CURRENT
DEG C	DEGREES CELSIUS
DEG F	DEGREES FAHRENHEIT
DEMO	DEMOLITION
DIAG	DIAGRAM
DISTR	DISTRIBUTION
DN	DOWN
DRSW	DOOR SWITCH
DWG	DRAWING
EC	EMPTY CONDUIT
EG	EQUIPMENT GROUND
EL	ELEVATION
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
ESMT	EASEMENT
EXIST	EXISTING
FLEX	FLEXIBLE METALLIC CONDUIT
FOUTT	TELEPHONE FLOOR OUTLET
FP	FIRE PROTECTION
FT	FEET OR FOOT
G OR GND	GROUND OR GENERATOR
GEN	GENERATOR
GTB	GROUND TERMINAL BOX
HT	HEIGHT
HZ	HERTZ
IMC	INTERMEDIATE METAL CONDUIT
IR	INFRARED
J-BOX	JUNCTION BOX
LF	LINEAR FEET (FOOT)
LTNG	LIGHTNING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEUT OR N	NEUTRAL
NIC	NOT IN CONTRACT
NS	NO SCALE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	POLE
PA	PUBLIC ADDRESS
PB	PANELBOARD, PULL BOX, OR PUSHBUTTON
PBB	PRIMARY BONDING BUSBAR
PBPU	PREFABRICATED BEDSIDE PATIENT UNIT
PED	PEDESTAL
PEND	PENDANT
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE (PLASTIC)
PWR	POWER
RCP	REFLECTED CEILING PLAN
REC	RECESSED
RECPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
REQD	REQUIRED
SF	SQUARE FOOT (FEET)
SHT	SHEET
SI	INTERNATIONAL SYSTEM OF UNITS
SPEC	SPECIFICATION
SURF	SURFACE
SW	SWITCH
TBC	TELECOMMUNICATIONS BONDING BUSBAR
TEL	TELEPHONE
TP	TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TR	TELECOMMUNICATIONS ROOM
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
MSB	MAIN SWITCH BOARD
UFD	UNDERFLOOR DUCT
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	VOLT
WP	WEATHERPROOF

COORDINATION NOTES:

STRUCTURED CABLING SYSTEM (SCS):
THE SCS CONTRACTOR (SCSC) SHALL PROVIDE ALL BACKBONE AND HORIZONTAL CABLING, COMPONENTS AND TERMINATIONS AS REQUIRED FOR A COMPLETE AND OPERATIONAL CABLING SYSTEM PER INDUSTRY BEST PRACTICES AS PRESCRIBED BY BICSI AND NEC.

THE SCSC SHALL BE RESPONSIBLE FOR COORDINATION WITH THE ELECTRICAL CONTRACTOR (EC) FOR SPECIFIC LOCATIONS OF ALL TELECOMMUNICATIONS SYSTEM DEVICES, INCLUDING ANCILLARY SYSTEM COMPONENTS AND ASSOCIATED CONDUITS PROVIDED BY THE EC.

THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL ROUGH-IN COMPONENTS ASSOCIATED WITH THE TELECOMMUNICATIONS SYSTEM COMPONENTS AS NOTED ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO, CONDUIT AND BACK-BOXES. THE EC SHALL COORDINATE ALL REQUIREMENTS WITH THE SCS CONTRACTOR.

TELECOM ROOM (TR) EQUIPMENT RACKS:
THE SCS CONTRACTOR (SCS) SHALL FURNISH AND INSTALL ALL EQUIPMENT RACKS. THE SCS CONTRACTOR SHALL FURNISH AND INSTALL ALL CABLING PATCH PANELS (COPPER AND FIBER) WITH RACK, AND SHALL BE RESPONSIBLE FOR ALL CABLE TERMINATIONS AT THE PATCH PANELS.

THE VA SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL ACTIVE EQUIPMENT, CONTROLLERS, SWITCHES, ETC. THAT RESIDE WITHIN THESE RACKS.

ACCESS CONTROL:
THE SCS CONTRACTOR (SCS) SHALL BE RESPONSIBLE FOR INSTALLING ALL CABLING AND DEVICES TO SUPPORT THE VA PROVIDED SECURITY HEAD END EQUIPMENT. VA SHALL INSTALL, CONNECT AND CONFIGURE FINAL SECURITY HEAD END EQUIPMENT.

THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL ROUGH-IN COMPONENTS ASSOCIATED WITH THE SECURITY SYSTEM AS NOTED ON THE DRAWINGS AND SPECIFICATIONS; INCLUDING BUT NOT LIMITED TO, CONDUIT AND BACK-BOXES. THE EC SHALL COORDINATE WITH THE SCS CONTRACTORS.

GROUNDING AND BONDING:
THE EC SHALL BE RESPONSIBLE FOR INSTALLING THE GROUNDING BUSBAR(S) AS ILLUSTRATED ON THE DRAWINGS AND SPECIFICATIONS, AND CONNECTING IT TO THE BUILDING MAIN ELECTRICAL SERVICE GROUND. THE EC SHALL BE RESPONSIBLE FOR GROUNDING ALL BACKBONE CONDUIT AND CABLE TRAY.

THE SCSC SHALL BE RESPONSIBLE FOR GROUNDING ALL RACKS, CABINETS, ENCLOSURES, PROTECTOR BLOCKS AND CABLE LADDER-RACK INSIDE TELECOMMUNICATIONS ROOMS.

FIRESTOPPING:
THE EC SHALL BE RESPONSIBLE FOR FIRE-STOPPING SLEEVE ASSEMBLIES TO OBTAIN A UL RATING.

THE SCSC SHALL BE RESPONSIBLE FOR FIRE-STOPPING INSIDE THE SLEEVES AFTER CABLE INSTALLATION IS COMPLETE.

CASEWORK / MILLWORK:
THE SCSC SHALL BE RESPONSIBLE FOR INSTALLING TELECOMMUNICATIONS OUTLETS IN CASEWORK, AS REQUIRED. CABLES SHALL BE CONCEALED IN CASEWORK.

THE EC SHALL BE RESPONSIBLE FOR INSTALLING ASSOCIATED CONDUIT AND BACK-BOXES AND SHALL STUB CONDUIT TO THE ABOVE ACCESSIBLE CEILING SPACE.

CONDUIT:
THE EC SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL BACKBONE AND HORIZONTAL CABLING PATHWAYS. THIS SHALL INCLUDE ALL INTERIOR CONDUITS, PATHWAY COMPONENTS SUCH AS JUNCTION BOXES, PULL BOXES, WALL/CEILING PENETRATIONS AND CONDUIT SLEEVES, WHETHER SHOWN ON THE DRAWINGS OR AS REQUIRED TO PENETRATE FULL-HEIGHT PARTITIONS AS SHOWN ON THE DRAWINGS. THE EC SHALL PROVIDE AND INSTALL ALL BUSHINGS ON TELECOMMUNICATIONS CONDUITS PRIOR TO INSTALLATION OF CABLING.

THE SCSC SHALL BE RESPONSIBLE FOR ALL WIRE RACEWAYS, CABLE RUNWAY (LADDER RACK) AND OTHER REQUIREMENTS FOR ROUTING AND SECURING CABLE INSIDE THE MAIN TELECOMMUNICATIONS ROOM (MTR) AND ALL TR'S.

TELECOMMUNICATIONS COMMUNICATIONS OUTLETS (C.O.'S) AND DEVICES:
THE EC SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL CONDUIT AND BACK-BOXES ASSOCIATED WITH THE TELECOMMUNICATIONS C.O.'S AND DEVICES.

THE SCSC SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL STRUCTURED CABLING, JACKS, FACEPLATES AND JUMPER/PATCH CORDS.

BACKBOARDS:
THE EC SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL BACKBOARDS AS ILLUSTRATED ON THE DRAWINGS AND AS REQUIRED FOR A COMPLETE SYSTEM AS ILLUSTRATED IN THE SPECIFICATIONS. THE EC SHALL BE RESPONSIBLE FOR ROUGH-IN OF ALL CONDUIT AND BACK-BOXES, POWER CONDUITS SHALL BE CONCEALED BEHIND ALL BACKBOARDS. BACKBONE CONDUIT SHALL BE EXPOSED AS ILLUSTRATED ON THE DRAWINGS (TR WALL ELEVATIONS).

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SCALE

NOT TO SCALE

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TITLE

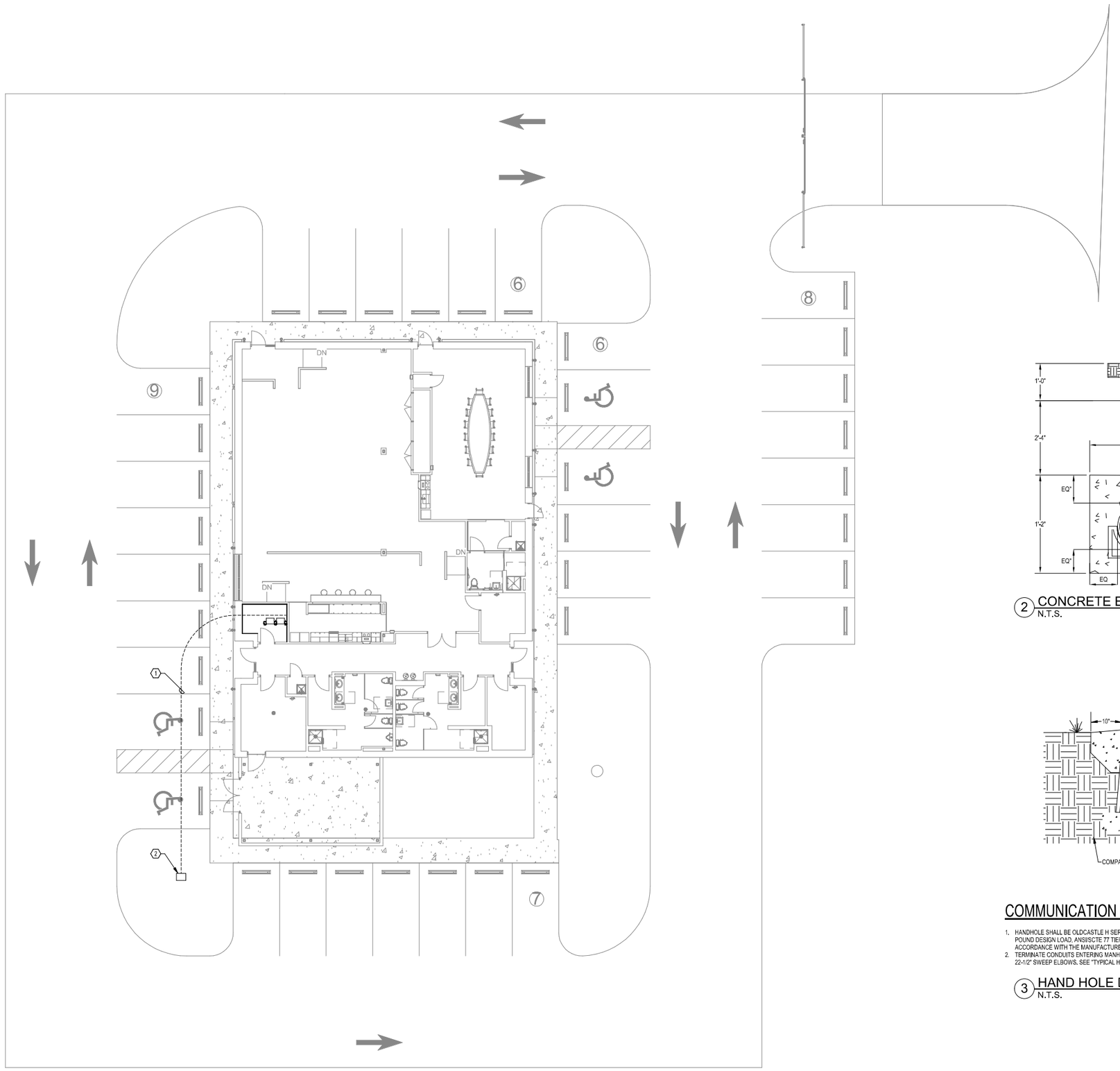
TELECOMM LEGEND, ABBREVIATIONS AND GENERAL NOTES

PROJECT NO. 0122062

T-001

SHEET NO.

2/27/2024 4:08:44 PM



1 TELECOM SITE PLAN
3/32" = 1'-0"

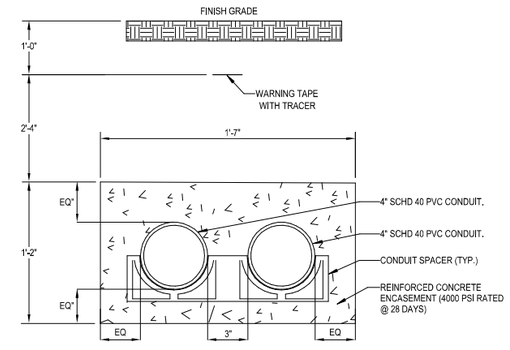
DRAWING NOTES:

1. CONDUIT ROUTING ON THIS PLAN IS DIAGRAMMATIC. EXACT CONDUIT ROUTING TO BE DETERMINED IN FIELD; COORDINATE WITH EXISTING FIELD CONDITIONS, AND ALL OTHER DISCIPLINES PRIOR TO CONSTRUCTION. PROVIDE PULL BOXES AS REQUIRED TO MAINTAIN CABLE PULL TENSION LIMITATIONS.

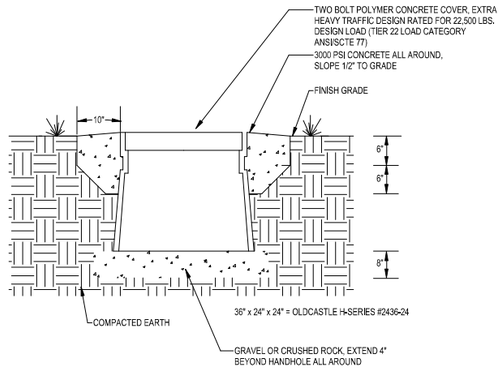
CODED NOTES:

1 (2) 4" CONCRETE ENCASED CONDUITS FROM UTILITY CONNECTION POINT. COORDINATE EXACT LOCATION OF UTILITY CONNECTION WITH UTILITY COMPANY PRIOR TO CONSTRUCTION. TERMINATE CONDUITS AT 4" AFF. REFER TO SHEET T-101 FOR ADDITIONAL INFORMATION.

2 COMMUNICATIONS HANDHOLE. EXACT LOCATION TO BE COORDINATE IN FIELD PRIOR TO CONSTRUCTION. REFER TO HAND HOLE DETAIL ON THIS SHEET FOR ADDITIONAL INFORMATION.



2 CONCRETE ENCASED DUCT BANK DETAIL
N.T.S.



COMMUNICATION HANDHOLE NOTES:

1. HANDHOLE SHALL BE OLDCASTLE H SERIES, SIZE AS NOTED ON SITE PLAN, COVER AND BODY SHALL BOTH BE HEAVY TRAFFIC RATED, 22,500 POUND DESIGN LOAD, ANSISCTE 77 TIER 22 LOAD CATEGORY. COVER AND LOGO SHALL BE "TELECOM" OR "COMMUNICATIONS". INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND THE REQUIREMENTS OF THIS PROJECT.
2. TERMINATE CONDUITS ENTERING MANHOLE WITH END BELL (CARLON E997), CONSTRUCT CONDUIT RISE TO ENTER BOX FROM SIDE WITH 22-1/2° SWEEP ELBOWS. SEE "TYPICAL HANDHOLE CONDUIT ENTRY DETAIL". DO NOT ENTER HANDHOLE FROM BOTTOM.

3 HAND HOLE DETAIL
N.T.S.

N
0 8' 16' 24' 32'
3/32" = 1'-0"

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SCALE
As indicated

REVISIONS

NO.	DESCRIPTION	DATE

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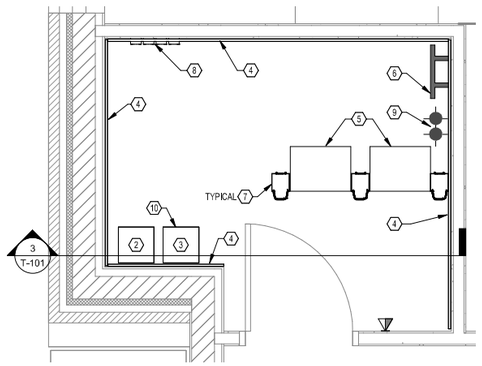
TITLE
TELECOMM SITE PLAN

PROJECT NO. 0122062

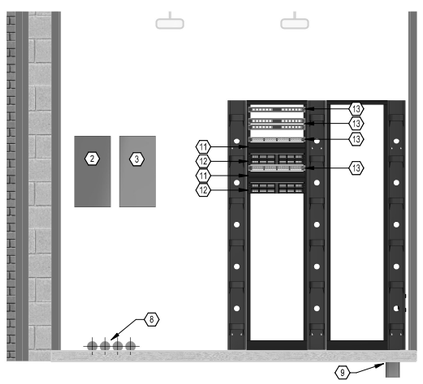
T-100

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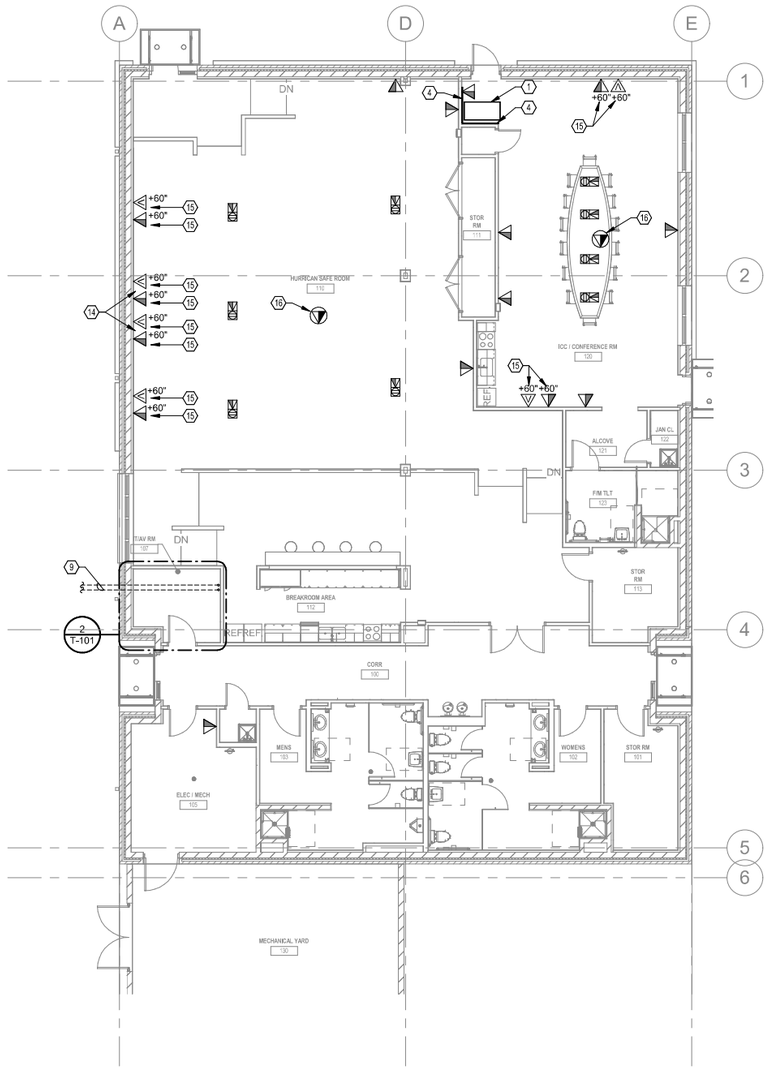
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2 ENLARGED IT/AV RM 107
1/2" = 1'-0"



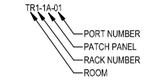
3 IT/AV RM 107 ELEVATION
1/2" = 1'-0"



1 FIRST FLOOR PLAN - SYSTEMS - NEW WORK
1/8" = 1'-0"

DRAWING NOTES:

1. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL DATA OUTLETS WITH ARCHICTURAL PLANS, MILL WORK, AND ELECTRICAL PLANS PRIOR TO CONSTRUCTION.
2. ACTIVE EQUIPMENT (SWITCHES, FIBER TRAY, UPS, PDU, ETC.) PROVIDED BY OWNER. PASSIVE EQUIPMENT (PATCH PANELS, HORIZONTAL CABLE MANAGEMENT, CABLE TRAY, CONDUITS) PROVIDED AND INSTALLED BY DIV 26/27 CONTRACTOR.
3. LABELING STANDARDS SHALL BE FOLLOWED FOR TR NUMBER, RACK NUMBER, PATCH PANEL (A-Z), AND PORT NUMBER. EXAMPLE: TR1-1A-01.
4. 8P8C CONNECTIONS IN WALL PLATES SHALL BE COLOR CODED BASED ON TYPE. REFER TO SHEET T-000 FOR CABLE COLOR CHART.
5. LABEL ALL CABLES AND PORTS ON BOTH ENDS WITH COMPUTER GENERATED, SELF-LAMINATING, ADHESIVE, WRAPAROUND LABELS WITH THE ROOM NUMBER (TR1, TR2...), RACK NUMBER, PATCH PANEL IDENTIFIER AND TERMINATION POINT.



6. CONTRACTOR SHALL PROVIDE CABLE PULL SCHEDULE FOR EACH SWITCH IN ALL RACKS AS PART OF SHOP DRAWING SUBMITTAL.
7. PROVIDE SERVICE LOOP (1) FULL LOOP IN CABLE TRAY AROUND PERIMETER OF DATA ROOM, FOR ALL STRUCTURED CABLING PRIOR TO TERMINATION ON PATCH PANEL.

CODED NOTES:

1. WALL MOUNTED NETWORK CABINET BY OTHERS.
2. CELLULAR REPEATER EQUIPMENT PROVIDED AND INSTALLED BY CELLULAR SERVICE PROVIDER. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH EQUIPMENT AND CELLULAR PROVIDER REQUIREMENTS PRIOR TO CONSTRUCTION.
3. CATV PROVIDER HEAD END AND DISTRIBUTION EQUIPMENT BY CATV PROVIDER. COORDINATE EXACT TERMINATION LOCATION WITH CATV PROVIDER PRIOR TO CONSTRUCTION.
4. PROVIDE TIA APPROVED, FIRE RATED, AC GRADE PLYWOOD BACKBOARD 4'x8'x1/2", OR APPROVED FIRE PLYWOOD. PAINT ON ALL SIDES AND WITHIN CUTOUT AREAS WITH AT LEAST (2) COATS OF FIRE RETARDANT, LIGHT COLORED PAINT. LOCATE BACKBOARD 12" AFF. INSTALL SO 'A' SIDE OF PLYWOOD IS EXPOSED.
5. PROVIDE 45RU 2-POST EQUIPMENT RACK, BASIS OF DESIGN IS CHATSWORTH STANDARD RACK 6"D.
6. GROUND BUSBAR. ALL VERTICAL/HORIZONTAL RACKS AND CABLE TRAY SHALL BE BONDED TO BUSBAR. REFER TO GROUND BUS BAR DETAIL ON SHEET T-501 FOR MORE INFORMATION.
7. 6" VERTICAL WIRE MANAGERS. (TYPICAL)
8. (4) 3" SLEEVES THROUGH WALL WITH BUSHINGS ON BOTH SIDES.
9. (2) 4" CONDUITS FROM SITE. PROVIDE BUSHINGS ON EACH END OF CONDUIT AND FABRIC INNERDUCT WITH PULL STRING. BASIS OF DESIGN IS MAXCELL 3-CELL, 2" INNERDUCT. TERMINATE CONDUITS AT 4" AFF. REFER TO SHEET T-100 FOR ADDITIONAL INFORMATION.
10. TERMINATE CATV OUTLET COAXIAL SERIES-6 CABLE AT THIS LOCATION FOR CONNECTION TO CATV PROVIDER DISTRIBUTION EQUIPMENT. COORDINATE EXACT TERMINATION POINT WITH CATV PROVIDER PRIOR TO CONSTRUCTION.
11. 2U HORIZONTAL CABLE MANAGEMENT.
12. 2U, (48) PORT, ANGLED PATCH PANEL.
13. ACTIVE EQUIPMENT BY OWNER.
14. PROVIDE DATA OUTLETS AND TV CONNECTION BOX STACKED VERTICALLY (2) HIGH IN THIS LOCATION FOR A TOTAL OF (4) SCREENS. COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS WITH SCREENS PRIOR TO CONSTRUCTION.
15. TV DATA AND VIDEO CONNECTION. REFER TO SHEET EP101 FOR ADDITIONAL INFORMATION AND COORDINATION REQUIREMENTS.
16. DATA OUTLET FOR CEILING MOUNTED PROJECTOR. REFER TO SHEER EP101 FOR COORDINATION INFORMATION.

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100% DESIGN

SEAL

BRANDON M. SARGENT, P.E.
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SCALE

As indicated

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY	CVM
APPROVED BY	BMS
CHECKED BY	BMS
DATE	2.6.24

TITLE

FIRST FLOOR PLAN - TELECOMM - NEW WORK

PROJECT NO. 0122062

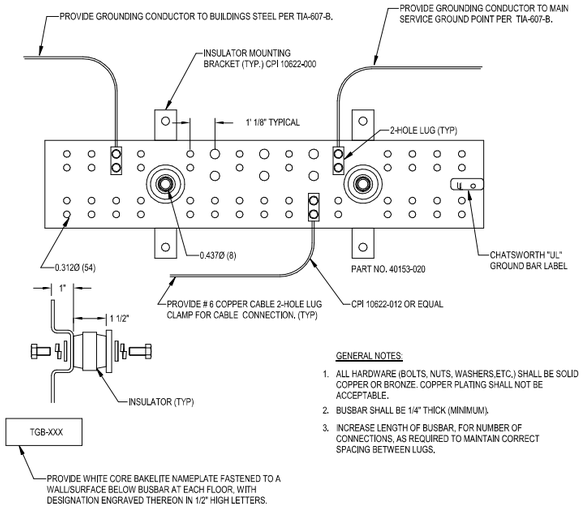
T-101

SHEET NO.

0 1' 2' 4' 6'
1/2" = 1'-0"

0 4' 8' 16' 24'
1/8" = 1'-0"

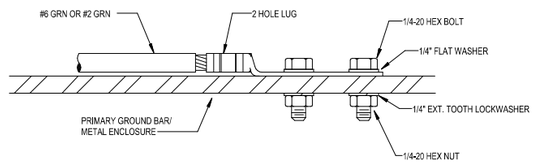
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GENERAL NOTES:

1. ALL HARDWARE (BOLTS, NUTS, WASHERS,ETC.) SHALL BE SOLID COPPER OR BRONZE. COPPER PLATING SHALL NOT BE ACCEPTABLE.
2. BUSBAR SHALL BE 1/4" THICK (MINIMUM).
3. INCREASE LENGTH OF BUSBAR, FOR NUMBER OF CONNECTIONS, AS REQUIRED TO MAINTAIN CORRECT SPACING BETWEEN LUGS.

4 GROUND BUS BAR (TYP FOR ALL TR'S)
N.T.S.



#6 OR #2 GRN TO GROUND BAR OF FLAT SURFACE.
#6 IS USED PRIMARILY AS CABINET TO BUS LINK.

INSTALLATION NOTES:

A. SELECT BOLT LENGTH TO PROVIDE A MINIMUM OF TWO EXPOSED THREADS.
B. BURNISH MOUNTING SURFACE TO REMOVE PAINT IN THE AREA OF LUG CONTACT.
C. APPLY ANTI-OXIDANT COMPOUND TO MATING SURFACE OF LUG AND WIPE CLEAN EXCESS COMPOUND.
D. USE SOLID COPPER WIRE AND MECHANICAL 2-HOLE LUG FOR ALL EXTERIOR GROUNDING.

5 GROUND BAR 2-HOLE LUG TERMINATION
N.T.S.

GENERAL NOTES:

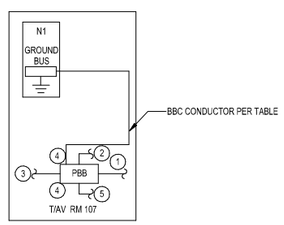
1. BONDING CONDUCTOR SHALL BE NO SMALLER THAN #2 CU.
2. ALL WORK SHALL COMPLY WITH NEC ARTICLE 250, UL 467, ANSI/TIA TIA-607-C, NECA/BICSI 607-2011.
3. PREPARE BUSBAR SURFACE AS DESCRIBED BELOW:
   a. USE AN ABRASIVE PAD, REMOVE ANY DIRT, GREASE, OIL OR OXIDATION THAT IS PRESENT AT THE SURFACE.
   b. APPLY THIN COAT OF AN ANTIOXIDANT TO THE CONNECTION POINT ON THE BUSBAR.
   c. USE STAINLESS STEEL OR SILICON BRONZE HARDWARE, TIGHTEN AND TORQUE TO THE REQUIREMENTS OF THE HARDWARE MATERIAL, SIZE AND GRADE.
4. CONDUCTORS SHALL BE COPPER.
5. LUGS SHALL BE 2-HOLE TYPE WITH INSPECTION WINDOW, LONG BARREL, IRREVERSIBLE (COMPRESSION OR EXOTHERMIC WELDING) AND MECHANICAL.
6. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL GROUNDING INFORMATION.

PBB: PRIMARY BONDING BUSBAR
SBB: SECONDARY BONDING BUSBAR
MSB: MAIN SWITCH BOARD
BBC: BACKBONE BONDING CONDUCTOR

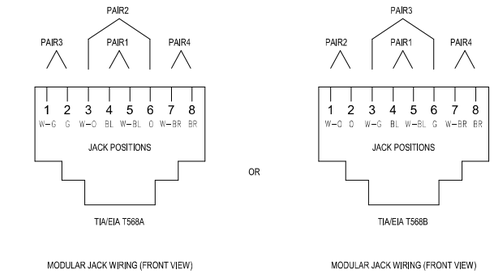
(X) NOTES:

1. #3/0 TO PRIMARY PROTECTOR.
2. #3/0 TO ELECTRICAL PANEL.
3. #3/0 TO EQUIPMENT RACKS/CABLE TRAY.
4. TWO-HOLE LUG, IRREVERSIBLE.
5. #6 SCIF PERIMETER BONDING CONDUCTOR.

BBC CONDUCTOR TABLE	
BBC LENGTH (FT)	BBC SIZE (AWG)
<13	6
14-20	4
21-26	3
27-33	2
34-41	1
42-52	1/0
53-66	2/0
67-84	3/0
85-105	4/0
106-125	250 KCMIL
126-150	300 KCMIL
151-175	350 KCMIL
176-250	500 KCMIL
251-300	600 KCMIL
>301	750 KCMIL

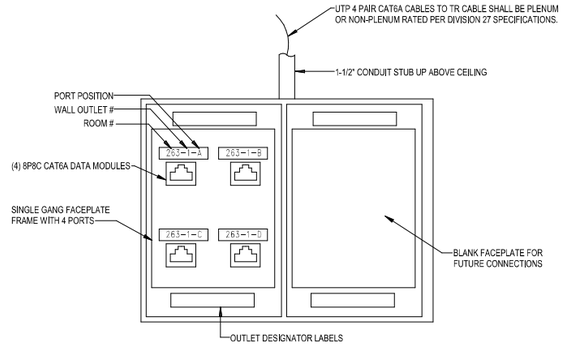


6 TELECOM GROUNDING RISER DIAGRAM
N.T.S.



VERIFY FACILITY STANDARD WITH IT REPRESENTATIVE PRIOR TO CONSTRUCTION.

1 MODULAR JACK WIRING DETAIL
N.T.S.

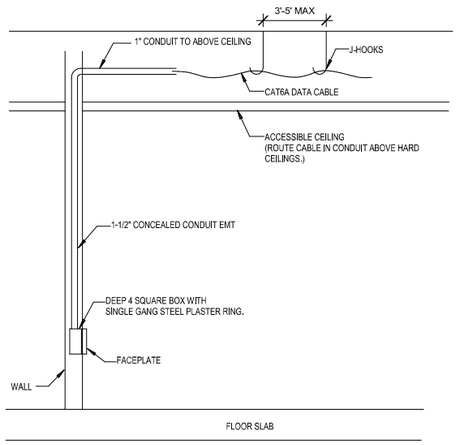


TCO PLAN SYMBOL

NOTES:

1. LABELING STANDARDS SHALL BE FOLLOWED FOR ROOM NUMBER OUTLET IS LOCATED IN, OUTLET POSITION IN ROOM (STARTING ON WALL TO LEFT OF ENTRY DOOR). AND PORT POSITION IN OUTLET - 101-1-A.
2. 8P8C CONNECTIONS IN WALL PLATES SHALL BE COLOR CODED TO MATCH CABLE COLORS INDICATED ON SHEET T-001.
3. WALL BOX SHALL BE DOUBLE-GANG TELECOMMUNICATIONS-RATED WORK BOX WITH RIGID CONDUIT EXTENDING TO THE HORIZONTAL PATHWAY.

2 WALL MOUNTED OUTLET - (TCO) VOICE/DATA
N.T.S.



3 TYPICAL FLUSH OUTLET MOUNTING
N.T.S.

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SEAL

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SCALE
NOT TO SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY	CVM
APPROVED BY	BMS
CHECKED BY	BMS
DATE	2.6.24

TITLE
TELECOMM DETAILS

PROJECT NO. 0122062

T-501

SHEET NO.

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