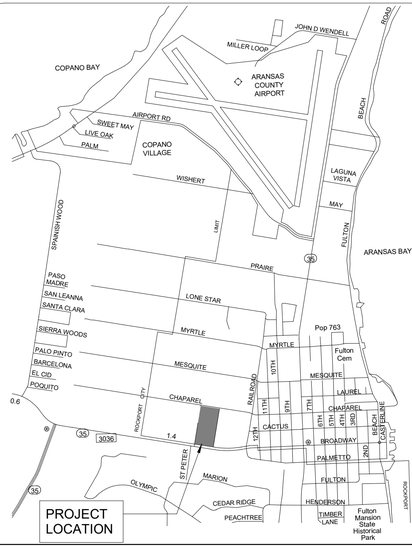


ARANSAS COUNTY



VICINITY MAP

NEW ADMINISTRATION & MAINTENANCE BUILDING



BUILDING AREA SUMMARY

OFFICE:	3668	S.F.
SHOP/STORAGE:	7676	S.F.
TRUCK WASH / EQUIP. ROOM:	1813	S.F.
TOTAL S.F.:	13,157	S.F.

APPLICABLE CODES

2018 INTERNATIONAL BUILDING CODE
NFPA 1
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2017 NATIONAL ELECTRICAL CODE
2015 INTERNATIONAL ENERGY CONSERVATION COOE
2012 TEXAS ACCESSIBILITY STANDARDS
2010 AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)
ASHRAE 62.1 - 2016

PROJECT DESCRIPTION

- A NEW SINGLE STORY BUILDING THAT INCLUDES OFFICES, SHOP / VEHICLE BAYS, EQUIPMENT / MATERIAL STORAGE AND TRUCK WASH BAY.
- SITE & EXISTING STRUCTURE IMPROVEMENTS

Texas Department of Transportation

Support Services Division / Facilities Planning & Management

150 E. Riverside Drive
Austin, Texas 78701-2483

Project Manager:
Joel Guerra
(512) 416-3328
Joel.Guerra@txdot.gov

PROJECT:
SITE NUMBER: 169609
BUILDING NUMBER: 168101
PROJECT NUMBER: 16-18700

PROJECT ADDRESS:
1401 FM 3036, ROCKPORT, TX 78382

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GENERAL NOTES

1. WORK SHALL CONFORM TO THE CONSTRUCTION DOCUMENTS & ALL APPLICABLE BUILDING CODES (INCLUDING FEDERAL & STATE CODES, ORDINANCES, REGULATIONS, ETC.) CONSTRUCTION DOCUMENTS INCLUDE CIVIL, LANDSCAPE, ARCHITECTURAL, STRUCTURAL, MEP DRAWINGS & SPECIFICATIONS PLUS ANY ADDENDA TO THE AFOREMENTIONED.
2. CONSTRUCTION DOCUMENTS ARE INTENDED TO INCLUDE ITEMS NECESSARY TO CONVEY DESIGN INTENT OF THE WORK. MANUFACTURERS' INSTRUCTIONS SHALL BE CONSIDERED AS PART OF THE SPECIFICATIONS WHETHER INCLUDED OR NOT IN THE SPECIFICATION MANUAL. THE TECHNICAL COMPETENCY OF THE CONTRACTOR & SUBCONTRACTOR IS REASONABLY INERRABLE AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS
3. PERIODIC SITE VISITS BY OWNER'S REPRESENTATIVE SHALL NOT BE CONSTRUED AS SUPERVISION OF MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR CONSTRUCTION, NOR IMPLY RESPONSIBILITY FOR PROVIDING A SAFE PLACE FOR PERFORMANCE OF WORK BY CONTRACTOR OR CONTRACTOR'S EMPLOYEES, OR EMPLOYEES OF SUPPLIERS, OR FOR ACCESS, VISITS, USE, WORK, TRAVEL, OR OCCUPANCY BY ANY PERSON.
4. CONTRACTOR SHALL:
   - VERIFY DIMENSIONS & FIELD CONDITIONS BEFORE PROCEEDING.
   - NOTIFY ARCHITECT OF FIELD CONDITIONS REQUIRING DEVIATIONS FROM CONSTRUCTION DOCUMENTS BEFORE THE CONSTRUCTION OF ANY MODIFICATION.
   - PROVIDE ADEQUATE BRACING & SHORING AS NECESSARY UNTIL PERMANENT SUPPORTS & STIFFENERS ARE INSTALLED.
   - IMMEDIATELY REPAIR OR REPLACE DAMAGED OR DEFECTIVE WORK TO THE APPROVAL OF (AND AT NO ADDITIONAL COST TO) THE OWNER
   - NOTIFY ARCHITECT & APPROPRIATE INSPECTORS AT CRITICAL CONSTRUCTION MILESTONES IN ORDER TO OBTAIN NECESSARY APPROVALS & INSPECTIONS PRIOR TO COMMENCEMENT OF SUBSEQUENT WORK.
   - TAKE REASONABLE PRECAUTIONS FOR THE SAFETY OF, AND PROVIDE REASONABLE PROTECTION TO PREVENT DAMAGE, INJURY OR LOSS TO:
     a) EMPLOYEES & ALL OTHER AFFECTED PERSONS
     b) ALL WORK, MATERIALS & EQUIPMENT
     c) OTHER PROPERTY AT SITE OR ADJACENT THERETO.
   - UPON COMPLETION OF THE WORK, REMOVE MATERIALS, TOOLS & EQUIPMENT AND LEAVE SITE IN A CONDITION ACCEPTABLE TO OWNER.

ARCHITECTURE

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ISSUE FOR CONSTRUCTION
5-10-2019

ROCKPORT ADMINISTRATION & MAINTENANCE BUILDING
PROJECT NUMBER: 16-18700

FILENAME: R:\1003300-1004999\1003526.00\WA5_ROCKPORT\04_DOCUMENTS\MODELS\Backup Model\3526-TXDOT Rockport_CChau.rvt
STAMP: 5/10/2019 12:44:32 PM

PROJECT GRAPHIC STANDARDS

PROJECT SYMBOLS

PLAN NORTH
PLAN NORTH NORTH ARROW

ALTERNATE:
PLAN NORTH
TRUE NORTH NORTH ARROW

78.0 — EXISTING POINT ELEVATION

79.0 — NEW OR FINISH POINT ELEVATION

LEVEL POINT DATUM POINT

PARTITION TYPE (RE: PARTITION SCHEDULE)

02123 — LEVEL, DOOR NUMBER, (RE: DOOR SCHEDULE)

ROOM 02132 — ROOM NAME, (RE: ROOM FINISH SCHEDULE), ROOM NUMBER, LEVEL, SECTOR/AREA

ALTERNATE:
? A.F.F. — CEILING TYPE
? A.F.F. — CEILING HEIGHT
(RE: ROOM FINISH SCHEDULE)

EXIT SIGN
DIRECTION SYMBOL

MATCHLINE SEE ? / ? — MATCHLINE, VIEW REFERENCE

CURTAIN PANEL TAG

WINDOW TAG

LOUVER TAG

SPECIALTY EQUIPMENT TAG

FURNITURE TAG

REVISION TAG

SHEET KEYNOTE

FINISH KEYNOTES:
FLOOR MATERIALS/FINISHES

GLAZING MATERIAL/FINISH

WALL MATERIALS/FINISHES

012283.A1 — MasterSpec KEYNOTE

012283.A1 DESCRIPTION — MasterSpec KEYNOTE w DESCRIPTION

CONSTRUCTION TYPE SYMBOLS

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED
- NEW NON-RATED CONSTRUCTION
- NEW SMOKE RATED CONSTRUCTION (30 MIN)
- NEW 1 HR. RATED CONSTRUCTION
- NEW 2 HR. RATED CONSTRUCTION
- NEW 3 HR. RATED CONSTRUCTION

PROJECT SYMBOLS

COLUMN LINE REFERENCE

EXISTING/NEW COLUMN LINE REFERENCE

DETAIL NUMBER REFERENCE
LARGE CALLOUT REFERENCE
SHEET NUMBER

DETAIL NUMBER REFERENCE
SMALL CALLOUT REFERENCE
SHEET NUMBER

ALTERNATES:
EXTERIOR ELEVATION NUMBER
SHEET NUMBER
REFERENCE

ALTERNATES:
INTERIOR ELEVATION NUMBER
SHEET NUMBER REFERENCE

REFERENCE
BUILDING SECTION REFERENCE

ALTERNATE:
REFERENCE
BUILDING SECTION REFERENCE

CENTER LINE, & SYMBOL

ABOVE LINE

BEYOND LINE

BREAK LINE

FLOOR FINISH TRANSITION

ALTERNATE:
CASEWORK TYPE
SIZE (WxH)

0 4'-0" 8'-0" 16'-0" — SCALE

MATERIAL SYMBOLS - PLAN

- BRICK
- CONCRETE MASONRY UNIT
- CONCRETE
- CAST-IN-PLACE CONCRETE
- PRECAST CONCRETE
- STONE
- GRAVEL
- COMPACTED EARTH FILL
- SAND

MATERIAL SYMBOLS - DETAIL

- STEEL
- OTHER METALS
- BATT INSULATION
- RIGID INSULATION
- GYPSUM BOARD
- PLASTER ON LATHE
- PLYWOOD
- MDF BOARD
- FINISHED WOOD
- GLASS
- TILE
- CARPET
- ACOUSTICAL TILE
- CONTINUOUS WOOD BLOCKING
- WOOD SHIM
- GRAVEL
- CONCRETE
- SAND

GENERAL PROJECT NOTES

NO.	DESCRIPTION
1.	The Construction Documents are to include AIA document A201"General Conditions of the Contract for Construction". Texas Department of Transportation (TxDOT) shall be designated as "The Owner", PGAL Architects shall be designated as "The Architect". The AIA document shall also include the Agreement, Performance and Payment Bonds, General Conditions, Supplementary Conditions, the Specifications, the Drawings Addendum, and Contract Modifications, Building Rules and Regulations & any other documents required by the Owner.
2.	The General Contractor shall be both licensed and bonded in California and shall provide documents upon request.
3.	The Work shall be done in accordance with the rules and regulations of all applicable safety and building codes, and as approved by the Authority Having Jurisdiction. The General Contractor is responsible for securing and paying for all permits required for the Work and for the scheduling of all required inspections during the course of the Work.
4.	The General Contractor shall review and verify existing conditions as provided in the Construction Documents. The Contractor shall notify the Architect of all discrepancies, errors, inconsistencies or ambiguities prior to proceeding with the Work.
5.	The General Contractor shall be responsible for, and provide protection of, any existing finishes, materials, and equipment to remain. The General Contractor shall repair or replace any damaged finishes, materials, and equipment as a result of the work. All existing finishes to remain shall be cleaned at the completion of construction. The General Contractor shall photograph and document all existing damages, and provide to the Architect, prior to proceeding with the Work.
6.	All materials and systems shall be installed per manufacturer's specifications. All construction shall be of industry standard or better. The Architect shall be final judge of quality.
7.	Only new materials and equipment of recent manufacture, of standard quality and free from defects, will be permitted in the Work, unless otherwise noted. Rejected materials and equipment shall be removed immediately from the Work and replaced with materials and equipment of the quality specified. Failure to remove rejected materials and equipment shall not relieve the General Contractor from the responsibility for quality of material and equipment used nor from any other obligation imposed by the Contract.
8.	Do not scale drawings. Stated & written dimensions govern. The General Contractor shall verify all dimensions in the field and shall be responsible for their accuracy. No extra charge or compensation shall be allowed because of difference between actual dimensions and those indicated on the drawings, unless they contribute to a change in the scope of the Work. Any difference found shall be submitted to the Architect for coordination prior to ordering, manufacturing, or proceeding with the Work. Horizontal dimensions indicated are to/from face of finish, unless noted otherwise. Vertical dimensions are from top of floor slab except where noted to be above finished floor (AFF). Dimensions are not adjustable without approval of Architect unless noted +/-.
9.	In the event of conflict between data shown on drawings and data provided in the specification, the specification shall govern. Detail drawings take precedent over drawings of larger scope. The Contractor shall provide written notification to the Architect of any discrepancies, prior to proceeding with the Work. In case of an inconsistency between Drawings and Specifications or within either Document, not clarified by Addendum, the more specific provision shall take precedence.
10.	The General Contractor shall verify that no conflicts exist between the locations of existing and proposed new mechanical, electrical, plumbing, data, and sprinkler equipment (including but not limited to structural members, piping, duct work, conduit and sprinklers) and that clearances for installation and maintenance of equipment are provided. Elements in conflict shall be documented and provided to the Architect prior to proceeding with the Work.
11.	The General Contractor shall provide the Architect with shop drawings for review and approval, for all, but not limited to, the following: shop-fabricated millwork, carpet layout, flooring, light fixtures, doors, misc. steel, metal fabrication, glass/glazing, sprinkler layouts, hardware. Shop drawings shall be submitted in the form of 3 sets of prints. Shop drawings shall not be reproductions of Contract Documents. Material Submittals (3 samples) shall be provided for wood, fasteners, acrylic, carpet, tile, base, paint, laminate and any other materials indicated in the shop drawing.
12.	The General Contractor shall provide the Architect with manufacturer's cut sheets and specifications for all equipment including but not limited to: light fixtures, plumbing equipment, electrical equipment, fans, supplementary heating and cooling elements, all hardware and security equipment.
13.	The General Contractor shall not proceed with work for which he expects additional compensation beyond the contract amount with out written authorization from the Architect and Owner. Failure to obtain such authorization shall invalidate a claim for extra compensation. The Contractor shall not proceed with work which, if completed in strict conformance with the Construction Documents, will result in additional work beyond the scope of the Contract without written authorization from the Architect and Owner. Any field conditions that significantly vary from the Contract Documents or will result in additional work, shall be brought to the attention of the Architect prior to proceeding with work.
14.	The General Contractor shall include all x-ray and core drill costs. The General Contractor shall review and coordinate the size and location of all slab openings with all related disciplines. The General Contractor shall submit proposed locations of core drilling and slab openings to Architect and Structural Engineer of Record for review and approval prior to proceeding with the Work.
15.	Patch, repair, and install all fireproofing as required by Code. Fireproof all new penetrations as required for approval by the Authority Having Jurisdiction.
16.	Where building seismic joints are located, the General Contractor shall provide applicable Code and industry best practices for routing of all piping, ducts, conduits and other continuous runs.
17.	The General Contractor shall continuously check architectural and structural clearances for accessibility of equipment and mechanical and electrical systems. No allowances of any kind will be made for the General Contractor's negligence to foresee means of installing equipment into position.
18.	The finished work shall be firm, well-anchored, in true alignment, plumb, level, with smooth, clean, uniform, appearance without waves, distortions, holes, marks, cracks, stains, or discoloration. Jointing shall be close fitting, neat and well scribed. The finished work shall have no exposed unsightly anchors or fasteners and shall not present hazardous, unsafe corners. All work shall have the provision for expansion, contraction and shrinkage as necessary to prevent cracks, buckling, and warping due to temperature and humidity conditions.
19.	Attachments, connections or fasteners of any nature are to properly and permanently be secured in conformance with industry best practices. The drawings highlight special conditions only and by no means illustrate every connection. The Contractor is responsible for improving connection accordingly.
20.	General Contractor shall waive "Common Practice" and "Common Usage" as construction criteria wherever details and Contract Documents of governing codes, ordinances, etc. require quantity or better quality than common practice or common usage would require.
21.	The General Contractor shall submit shop drawings and submittals, and shall order and schedule delivery of materials to avoid delays in construction. If an item is found to be unavailable or to have a long lead time, the General Contractor shall notify Architect immediately with a proposed alternative.
22.	The General Contractor shall notify the Owner, the Landlord, and the Architect in writing of any deficiencies in base building work prior to the commencement of the Work. Any unreported deficiencies will become the responsibility of the General Contractor to correct.
23.	The General Contractor shall exercise industry best practices for care and caution during the construction of the Work, and shall schedule work to minimize disturbances to occupants, adjacent spaces and/or structures, property, public thoroughfares, etc. The General Contractor shall take precautions and be responsible for the safety of all building occupants during construction procedures. The General Contractor shall be responsible for any costs incurred.
24.	All debris shall be removed from the site on a daily basis, or as directed by the Authority Having Jurisdiction. Upon completion of the work, remove all debris from the building created by the work provided under this Contract and leave all areas clean. Trash is not permitted to be burned on site.
25.	All abandoned and miscellaneous nails, hangers, staples, wires, conduits and debris shall be removed from exposed areas of the floors, walls, and ceilings. Remove all abandoned pipe sleeves in floor slabs. Patch existing slab as required to maintain UL fire rating of floor slab where pipes and conduits have been removed.
26.	Slab penetrations shall be sealed as required to maintain fire rating, using materials and methods approved by the Authority Having Jurisdiction. Expansion material shall be approved by the Architect.
27.	The General Contractor shall notify the Architect of any access panels which may be required prior to proceeding with the Work. Contractor shall be responsible for coordinating all trades. Required access panels shall be included in the Contractor's scope of Work.
28.	Contractor shall provide the Team with a construction schedule showing the proposed phasing. Long lead items that will affect the Substantial Completion date shall be brought to the Architect's attention immediately.

ABBREVIATION

Abbrev	Description	Abbrev	Description	Abbrev	Description	Abbrev	Description	Abbrev	Description	Abbrev	Description
A		D		FT	foot or feet	M		R		T	
ABV	above	DBL	double	FUR	furring	MAX	maximun	R	riser	T	tread
ACOUS	acoustical	DET	detail			MECH	mechanical	RAD	radius	T&G	tongue & groove
ACT	acoustical ceiling tile	DIA	diameter	G		MEMB	membrane	RCP	reflected ceiling plan	TEL	telephone
AD	area drain	DIM	dimension	GAL	gallon	MFR	manufacturer	RD	roof drain	TER	terrazzo
ADJ	adjustable	DN	down	GALV	galvanized	MIN	minimum	RE	refer	THK	thick
AFF	above finished floor	DR	door	GB	grab bar	MISC	miscellaneous	REF	refrigerator	THR	threshold
ALT	alternate	DS	down spout	GC	general contractor	MO	masonry opening	REINF	reinforced	TO	top of
ALUM	aluminum	DW	dishwasher	GL	glass	MTD	mounted	REQD	required	TYP	typical
APPROX	approximate	DWG	drawing	GND	ground	MTL	metal	RESIL	resilient		
ARCH	architect			GWB	gypsum board			RM	room	U	
		E		GYP	gypsum	N				UC	undercut
B		E	east			N	north	S		UNFIN	unfinished
B.O.	bottom of	EA	each	H		NIC	not in contract	RO	rough opening	UNO	unless noted otherwise
BALC	balcony	EIFS	exterior insulation & finish system	H.W.H.	hot water heater	NO	number	RTU	roof top unit (mech)	UON	unless otherwise noted
BD	board	ELEC	electric(al)	HC	handicapped	NOM	nominal	S	south	UTIL	utility
BET	between	ELEV	elevation	HDWD	hardwood	NTS	not to scale	SAFB	sound attenunation fiber batt		
BLDG	building	EMER	emergency	HDWR	hardware			SC	scupper	V	
BLKG	blocking	ENCL	enclosure	HM	hollow metal	O		SCHED	schedule	VCT	vinyl compostion tile
BLW	below	EOS	edge of slab	HORIZ	horizontal	O.P.	overflow pipe	SEAL	sealant	VERT	vertical
BM	beam	EQ	equal	HR	hour	OA	overall	SECT	section	VIF	verify in field
BOT	bottom	EQUIP	equipment	HT	height	OC	on center	SF	square foot	VTR	vent termination pipe
BRKT	bracket	ETR	existing to remain			OD	outside diameter	SHT	sheet	VWC	vinyl wall covering
BULKHD	bulkhead	EW	each way	I		OFF	office	SIM	similar		
BUR	built up roof	EXP. JT.	expansion joint	ID	inner diameter	OH	opposite hand	SPEC	specification	W	
		EXST	existing	INCAN	incandescent	OPG	opening	SQ	square	W	west
C				INSUL	insulation	OPP	opposite	SS	stainless steel	W/	with
C.G.	corner guard	F		INT	interior			STD	standard	W/O	without
CAB	cabinet	F.O.	face of			P		STL	steel	WC	watercloset
CALK	caulking	FA	fire alarm	J		PART	partition	STOR	storage	WIN	window
CEM	cement	FAP	fire annunciuator panel	JAN	janitor	PERM	perimeter	STRUCT	structural	WP	waterproof
CER	ceramic	FD	floor drain	JST	joist	PG	paint grade	SUSP	suspended	WS	wetstack
CJ	control joint	FE	fire extinguisher	JT	joint	PLAM	plastic laminate	SYM	symmetrical	WSCT	wainscot
CLG	ceiling	FEC	fire extinguisher cabinet			PLAS	plaster			WT	weight
CLOS	closet	FG	finish group	L		PLYWD	plywood				
CLR	clear	FH	fire hydrant	LAM	laminate	PR	pair				
CO	cased opening	FHC	fire hose cabinet	LAV	lavatory	PT	paint				
COL	column	FIN	finish	LB(S)	pounds	PTD	painted				
CONC	concrete	FLR	floor	LDG	landing						
CONT	continous	FLUOR	fluorescent	LT	light						
CPT	carpet										
CT	ceramic tile										
CTR	center										

CLIENT

Texas Department of Transportation

125 E. 11th Street. Austin, TEXAS 78701-2483

ARCHITECT

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CONSULTANT

REGISTRATION

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REGISTERED ARCHITECT MICHAEL LLOYD 18250 STATE OF TEXAS

5-10-2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
	12-6-2018	ISSUE FOR DESIGN DEVELOPMENT
	3-12-2019	ISSUE FOR 95% CD REVIEW
	4-12-2019	95% CONSTRUCTION DOCUMENTS
	5-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

SHEET TITLE

GENERAL PROJECT INFORMATION

SHEET NUMBER

G0.01

FILENAME: R:\1003300-1004999\1003526.00\WA5_ROCKPORT\04_DOCUMENTS\MODELS\Backup Model\3526-TXDOT Rockport_CChau.rvt
PLOT STAMP: 5/9/2019 11:10:23 AM

BUILDING ADDRESS
1401 F.M. 3036
ROCKPORT, TEXAS 78382

BUILDING OWNER
TEXAS DEPARTMENT OF TRANSPORTATION
125 E. 11th STREET.
AUSTIN, TEXAS 78701-2483

PROJECT DESCRIPTION
- A NEW SINGLE STORY BUILDING THAT INCLUDES OFFICES, SHOP AND VEHICLE BAYS, VEHICLE, EQUIPMENT AND MATERIAL STORAGE, AND TRUCK WASH BAY.
- SITE & EXISTING STRUCTURE IMPROVEMENTS

APPLICABLE CODES
2018 INTERNATIONAL BUILDING CODE
NFPA 1
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2017 NATIONAL ELECTRICAL CODE
2015 INTERNATIONAL ENERGY CONSERVATION COOE
2012 TEXAS ACCESSIBILITY STANDARDS
2010 AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)
ASHRAE 62.1 - 2016

PROPOSESD CONSTRUCTION TYPE
TYPE IIB, NON-SPRINKLERED

PROPOSED OCCUPANCY CLASS
B OFFICE USES
S-1 STORAGE
S-1 REPAIR GARAGE (EQUIPMENT SHOP)
S-1 WASH BAY

ALLOWABLE HEIGHT AND BUILDING AREA
IBC 2018, TABLE 504.3, 504.4 & 506.2

CONSTRUCTION TYPE IIB,
GROUP B (OFFICE)
BUILDING HEIGHT: 3 STORIES
BUILDING AREA PER FLOOR: 23,000 SF

GROUP S-1 (EQUIPMENT SHOP, STORAGE & WASH BAY)
BUILDING HEIGHT: 3 STORIES
BUILDING AREA PER FLOOR: 26,000 SF

BUILDING AREA

BUILDING HEIGHT: 23'-6"
ALLOWABLE AREA: 23,000 SF
TOTAL BUILDING GROSS AREA: 13,157 SF

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)
IBC 2018, TABLE 601

BUILDING ELEMENT	*RATING IN HOURS*
PRIMARY STRUCTURAL FRAME	0
EXTERIOR BEARING WALLS	0
INTERIOR BEARING WALLS	0
INTERIOR NONBEARING WALLS	0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0 (NOTE C)

NOTE C:
IN ALL OCCUPANCIES, HEAVY TIMBER SHALL BE ALLOWED WHERE A 1-HOUR OR LESS FIRE-RESISTANCE RATING IS REQUIRED.

FIRE RESISTANCE RATING FOR EXTERIOR WALL
IBC 2018, TABLE 602

FIRE SEPERATION DISTANCE	*TYPE OF CONSTRUCTION*	*OCCUPANCY GROUP B, S-1*
10 FT ≤ X ≤ 30 FT	IIB	0
X ≥ 30 FT	IIB	0

FIRE RESISTANCE RATING FOR OCCUPANCIES SEPARATION
IBC 2018, TABLE 508.4
(NON-SPRINKLERED BUILDING)

OCCUPANCIES	*FIRE RATING*
B - S-1	0

ASSEMBLY ROOM IS A-3 OCCUPANCY BUT NOT RATED BECAUSE IT IS CONSIDERED AN ACCESSORY OCCUPANCY (LESS THAN 10% OF THE OVERALL FLOOR AREA)

FIRE RESISTANCE RATING FOR CORRIDOR
IBC 2018, TABLE 1020.1

OCCUPANCY	*OCCUPANT LOAD SERVED BY CORRIDOR*	*FIRE RATING WITHOUT SPRINKLER SYSTEM*
B, S	LESS THAN 30	0

INTERIOR WALL AND CEILING FINISH REQUIREMENT BY OCCUPANCY
IBC 2018, TABLE 803.13
NON SPRINKLERED

OCCUPANCY	*INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMPS AND PASSAGEWAYS (NOTE A & B)*	*CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND EXIT ACCESS RAMPS*	*ROOMS AND ENCLOSURED SPACES (NOTE C)*
B	CLASS A	CLASS B	CLASS C
S-1	CLASS B	CLASS B	CLASS C

NOTE A:
CLASS C INTERIOR FINISH MATERIALS SHALL BE PERMITTED FOR WAINSCOTTING OR PANELING OF NOT MORE THAN 1,000 SQUARE FEET OF APPLIED SURFACE AREA IN THE GRADE LOBBY WHERE APPLIED DIRECTLY TO A NONCOMBUSTIBLE BASE OR OVER FURRING STRIPS APPLIED TO A NONCOMBUSTIBLE BASE AND FIREBLOCKED AS REQUIRED BY SECTION 803.15.1.

NOTE B:
IN OTHER THAN GROUP I-2 OCCUPANICIES IN BUILDINGS LESS THAN THREE STORIES ABOVE GRADE PLANE OF OTHER THAN GROUP I-3, CLASS B INTERIOR FINISH FOR NONSPRINKLERED BUILDINGS AND CLASS C INTERIOR FINISH FOR SPRINKLERED BUILDINGS SHALL BE PERMITTED IN INTERIOR EXIT STAIRWAYS AND RAMPS.

NOTE C:
REQUIREMENTS FOR ROOMS AND ENCLOSED SPACES SHALL BE BASED UPON SPACES ENCLOSED BY PARTITIONS. WHERE A FIRE-RESISTANCE RATING IS REQUIRED FOR STRUCTURAL ELEMENTS, THE ENCLOSING PARTITIONS SHALL EXTEND FROM THE FLOOR TO THE CEILING. PARTITIONS THAT DO NOT COMPLY WITH THIS SHALL BE CONSIDERED ENCLOSING SPACES AND THE ROOMS OR SPACES ON BOTH SIDES SHALL BE CONSIDERED ONE. IN DETERMINING THE APPLICABLE REQUIREMENTS FOR ROOMS AND ENCLOSED SPACES, THE SPECIFIC OCCUPANCY THEREOF SHALL BE THE GOVERNING FACTOR REGARDLESS OF THE GROUP CLASSIFICATION OF THE BUILDING OR STRUCTURE

NOTE D:
LOBBY AREAS IN GROUP A-1, A-2 AND A-3 OCCUPANCIES SHALL NOT BE LESS THAN CLASS B MATERIALS.

NOTE F:
FOR PLACES OF RELIGIOUS WORSHIP, WOOD USED FOR ORNAMENTAL PURPOSES, TRUSSES, PANELING OR CHANCEL FURNISHING SHALL BE PERMITTED.

FIRE PROTECTION SYSTEM

PER IBC 2018, TABLE 906.3(1)
MAX. TRAVEL DISTANCE TO FIRE EXTINGUISHERS = 75 FEET AND/OR 3,000 SQUARE FEET OF AREA

OCCUPANCY CALCULATIONS
IBC 2018, TABLE 1004.5

OCCUPANCY TYPE	*SPACE TYPE*	*FLOOR AREA*	*LOAD FACTOR*	*OCC. LOAD*
B	OFFICE	3,656	100	37
S-2	SHOP / STORAGE	9,501	500	19
			TOTAL OCCUPANT LOAD:	56

EGRESS WIDTH FACTOR PER OCCUPANT SERVED
IBC 2018, SECTION 1005.3.2
WITHOUT EMERGENCY VOICE / ALARM COMMUNICATION SYSTEM

OCCUPANCY TYPE	*OTHER EGRESS COMPONENTS*
B & S-2	0.2

ACTUAL EGRESS WIDTH CALCULATION:

	EGRESS WIDTH	*EGRESS WIDTH PROVIDED*
MAIN BUILDING	56 x 0.2 = 12"	340" (10 EXITS)

MINIMUM NUMBER OF EXITS PER OCCUPANT LOAD
IBC 2018, TABLE 1006.2.1

OCCUPANT LOAD (PER FLOOR)	*NUMBER OF EXITS REQUIRED*	*NUMBER OF EXITS PROVIDED*
1-500	2	3

EXIT ACCESS TRAVEL DISTANCE
IBC 2018, SECTION 1017.2

OCCUPANCY	*WITHOUT SPRINKLER SYSTEM*
B	200 FT
S	200 FT

DEAD ENDS CORRIDOR
IBC 2018, SECTION 1020.4

OCCUPANCY	*MAXIMUM TRAVEL DISTANCE*
B, S	20 FT

PLUMBING FIXTURE COUNT
IBC 2018, TABLE 2902.1

FIXTURE *CCUPANCY*	REQUIRED *OCCUPANT LOAD*	*WATER CLOSETS*	*LAVATORIES*	*DRINKING FOUNTAIN*	*SERVICE SINK*
B	37	37 x (1/25) = 1.48	37 x (1/40) = 0.925	37 x (1/100) = 0.37	-
S-1	19	19 x (1/100) = 0.19	19 x (1/100) = 0.19	19 x (1/1000) = 0.019	-
TOTAL		1.67	1.115	0.389	-
FIXTURE PROVIDED		**5 (3 WCS & 2 URINALS)**	**2**	**1**	**1**

REQUIRED SEPARATION OF OCCUPANCIES
NFPA 101, 2012. TABLE 6.1.14.4.1(b)

STORAGE, LOW & ORDINARY HAZARD - BUSINESS = 2 HOURS

REQUIRED SEPARATION OF OCCUPANCIES
NFPA 101, 2012. TABLE 6.1.14.4.1(b)

STORAGE, LOW & ORDINARY HAZARD - BUSINESS = 2 HOURS

BUILDING CODE DATA

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Texas Department of Transportation
125 E. 11th Street. Austin, TEXAS 78701-2483

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CONSULTANT

REGISTRATION
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REGISTERED ARCHITECT MICHAEL LLOYD 18250 STATE OF TEXAS
5-10-2019

DRAWING HISTORY

Nr.	DATE	DESCRIPTION
	12-6-2018	ISSUE FOR DESIGN DEVELOPMENT
	3-12-2019	ISSUE FOR 95% CD REVIEW
	4-12-2019	95% CONSTRUCTION DOCUMENTS
	5-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME
NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER
16-18700

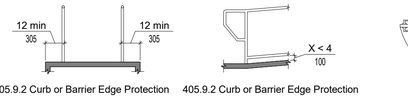
PROJECT LOCATION
1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER
1003526

SHEET TITLE
PROJECT CODE SHEET

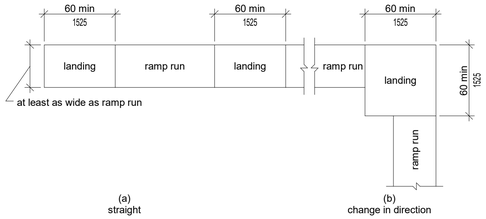
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G0.10

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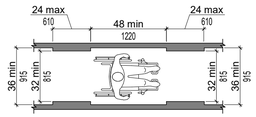


405.9.2 Curb or Barrier Edge Protection 405.9.2 Curb or Barrier Edge Protection

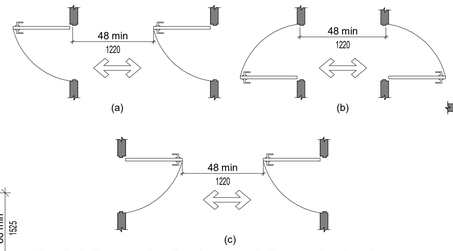
405.9 Extended Floor or Ground Surface



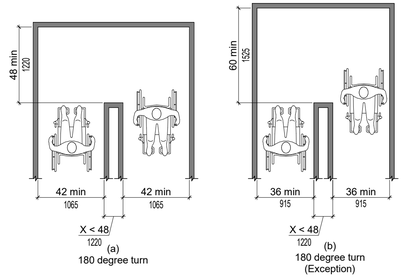
405.7 Ramp Landings



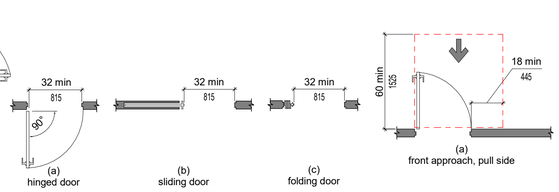
403.5.1 Clear Width of an Accessible Route



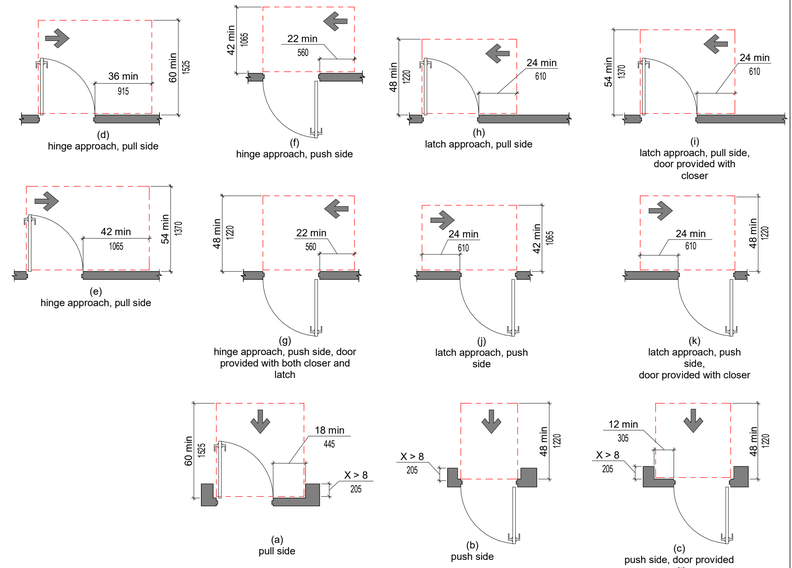
404.2.6 Doors in Series and Gates in Series



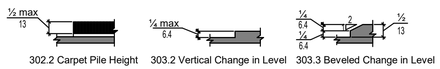
403.5.2 Clear Width at Turn



404 Doors, Doorways, and Gates

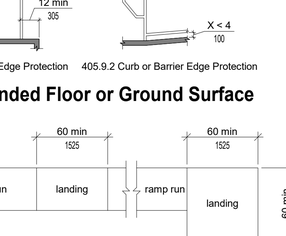


CHAPTER 4: ACCESSIBLE ROUTES

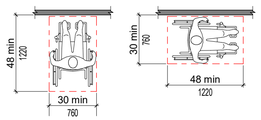


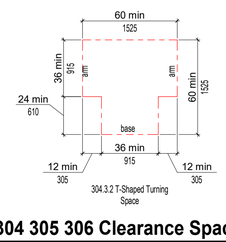
302.2 Carpet Pile Height 303.2 Vertical Change in Level 303.3 Beveled Change in Level

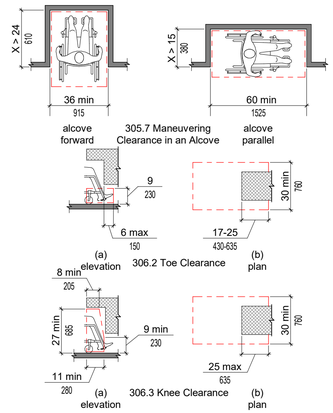
302 - Floor or Ground Surfaces



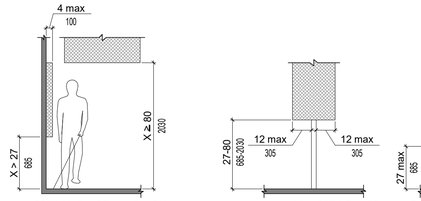
302 Floor or Ground Surfaces



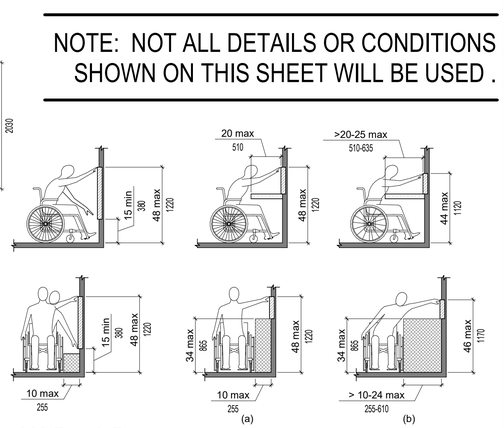




304 305 306 Clearance Space

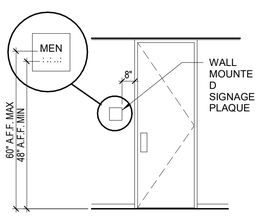


307 Limits of Protruding Objects



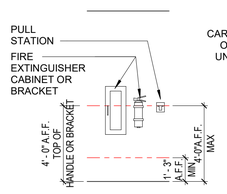
308 Reach Ranges

CHAPTER 3: BUILDING BLOCKS



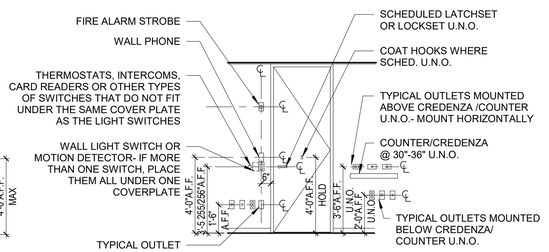
TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48" A.F.F. MIN MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60" A.F.F. MAX MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.

ADA SIGNAGE



NOTE: FIRE EXTINGUISHER CANNOT PROTRUDE MORE THAN 4"

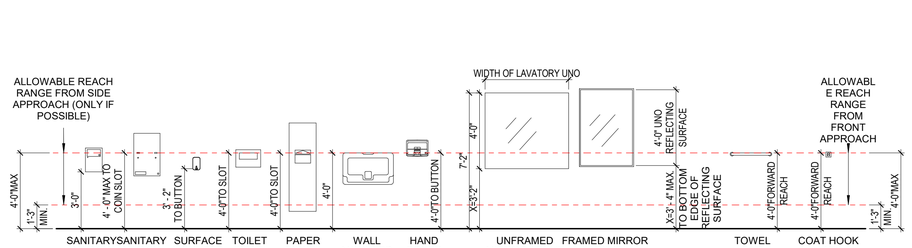
FIRE PROTECTION



ELECTRICAL, VOICE, AND DATA WALL OUTLETS SHALL BE GANGED TOGETHER AS TIGHT AS POSSIBLE AS PER CODE RESTRICTIONS.

MOUNTING HEIGHTS, LOCATIONS AND ALIGNMENT OF ALL DEVICES SHALL BE PER THIS DRAWING UNO.

TYPICAL



NOTE: ALL MAXIMUM MOUNTING HEIGHTS TO BE TAKEN FROM FINISH FLOOR TO HIGHEST OPERABLE PART (COIN SLOTS, HANDLES, ETC. OF ACCESSORY)

NOTE: X=3' - 1" MAX. WHERE MIRROR IS NOT LOCATED ABOVE COUNTERS/LAVATORIES

Graphic Convention for Figures

Convention	Description
36 / 915	dimension showing English units (in inches unless otherwise specified) above the line and SI units (in millimeters unless otherwise specified) below the line
6 / 150	dimension for small measurements
33-36 / 840-915 min / max	dimension showing a range with minimum - maximum
min	minimum
max	maximum
>	greater than
≥	greater than or equal to
<	less than
≤	less than or equal to
	boundary of clear floor space or maneuvering clearance
	centerline
	a permitted element or its extension
	direction of travel or approach
	a wall, floor, ceiling or other element cut in section or plan
	a highlighted element in elevation or plan
	location zone of element, control or feature

TYPICAL INSTALLATION HEIGHTS

NOTE: NOT ALL DETAILS OR CONDITIONS SHOWN ON THIS SHEET WILL BE USED .

FILENAME: R:\1003300-1004999\1003526.00\WA5_ROCKPORT\04_DOCUMENTS\MODELS\Backup Model\3526-TXDOT Rockport_CChau.rvt
STAMP: 5/9/2019 11:10:29 AM

CLIENT

Texas Department of Transportation

125 E. 11th Street. Austin, TEXAS 78701-2483

ARCHITECT

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REGISTRATION

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REGISTERED ARCHITECT MICHAEL L. LLOYD 18250 STATE OF TEXAS

5-10-2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
	12-6-2018	ISSUE FOR DESIGN DEVELOPMENT
	3-12-2019	ISSUE FOR 95% CD REVIEW
	4-12-2019	95% CONSTRUCTION DOCUMENTS
	5-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

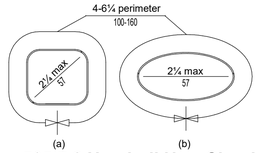
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ADA INFORMATION

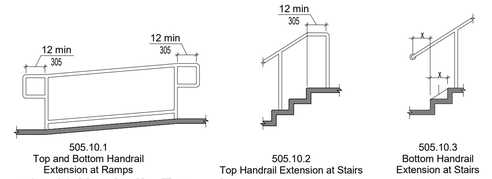
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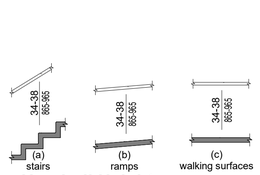
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505.7.2 Handrail Non-Circular Cross Section



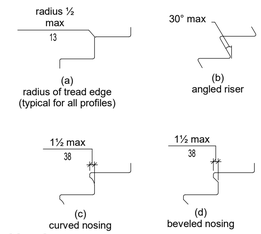
505.10 Hardrails Extensions



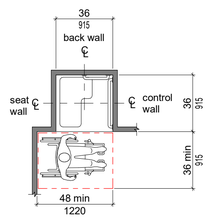
Handrail Height



Handrail Clearance

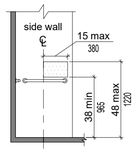


Stair Nosings

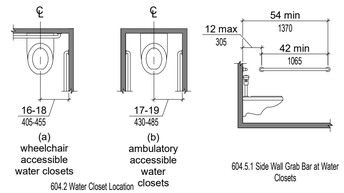


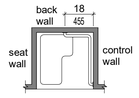
Note: inside finished dimensions measured at the center points of opposing sides.

608.2.1 Transfer Type Shower Compartment Size and Clearance.

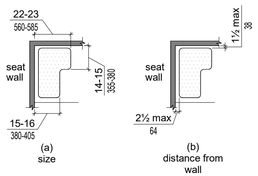


608.5.1 Transfer Type Shower Compartment Control Location



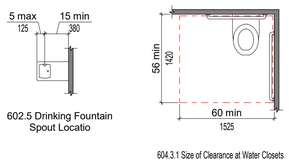


608.3.1 Grab Bars for Transfer Type Showers

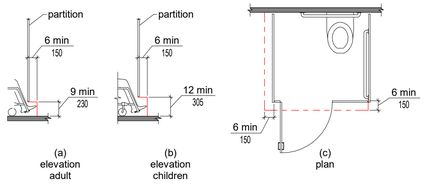


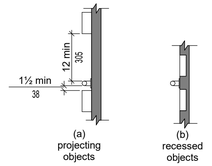
610.3.2 L-Shaped Shower Seat

608 Showers



603 Toilet and Bathing Rooms





Spacing of Grab Bars

CLIENT

Texas Department of Transportation

125 E. 11th Street. Austin,
TEXAS 78701-2483

ARCHITECT

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REGISTERED ARCHITECT MICHAEL LLOYD 18250 STATE OF TEXAS
5-10-2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
	12-6-2018	ISSUE FOR DESIGN DEVELOPMENT
	3-12-2019	ISSUE FOR 95% CD REVIEW
	4-12-2019	95% CONSTRUCTION DOCUMENTS
	5-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

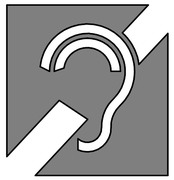
1003526

SHEET TITLE

ADA INFORMATION

SHEET NUMBER

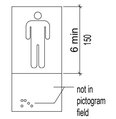
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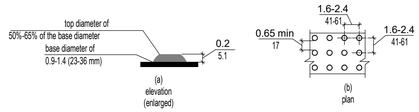
703.7.2.4 International Symbol of Access for Hearing Loss



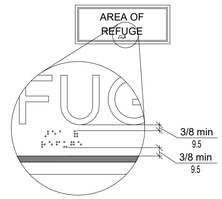
703.7.2.1 International Symbol of Accessibility



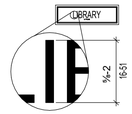
703.6
Pictogram Field



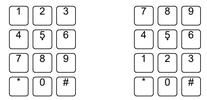
705.1 Size and Spacing of Truncated Domes



703.3.2 Position of Braille



703.2.5 Height of Raised Characters



(a) 12-key ascending

(b) 12-key descending

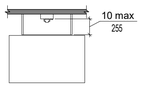
707.6.2
Numeric Key Layout



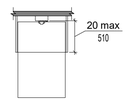
703.7.2.3 Volume-Controlled Telephone



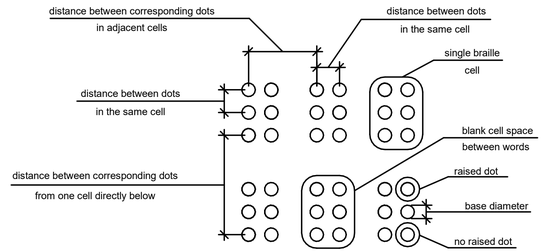
703.7.2.2 International TTY Symbol



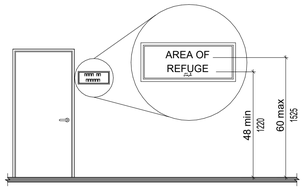
704.2.1.1
Parallel Approach to Telephone



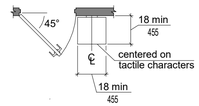
704.2.1.2
Forward Approach to Telephone



703.3.1 Braille Measurement

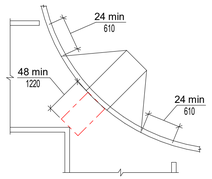


703.4.1 Height of Tactile Characters Above Floor or Ground

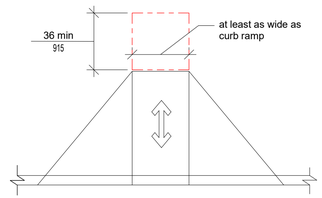


703.4.2 Location of Tactile Signs at Doors

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES



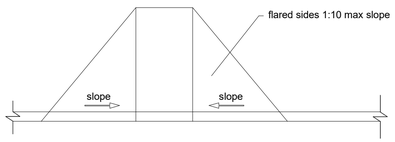
Diagonal or Corner Type Curb Ramps



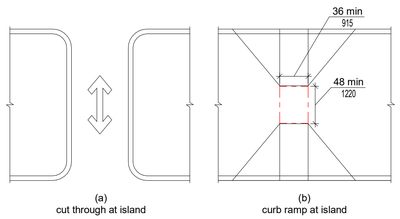
Landings at the Top of Curb Ramps



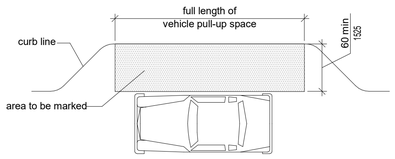
Counter Slope of Surfaces Adjacent to Curb Ramps



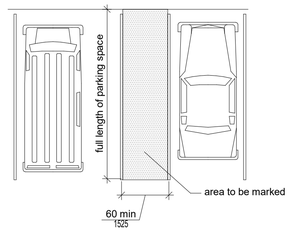
Sides of Curb Ramps



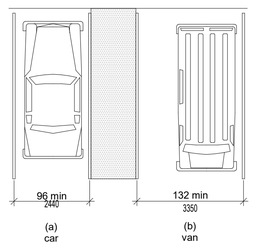
Islands in Crossings



Passenger Loading Zone Access Aisle



Parking Space Access Aisle



Vehicle Parking Spaces

CHAPTER 5: GENERAL SITE AND BUILDING ELEMENTS

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PLOT STAMP: 5/9/2019 11:10:37 AM

CLIENT

Texas Department of Transportation

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REGISTRATION

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5-10-2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
	12-6-2018	ISSUE FOR DESIGN DEVELOPMENT
	3-12-2019	ISSUE FOR 95% CD REVIEW
	4-12-2019	95% CONSTRUCTION DOCUMENTS
	5-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

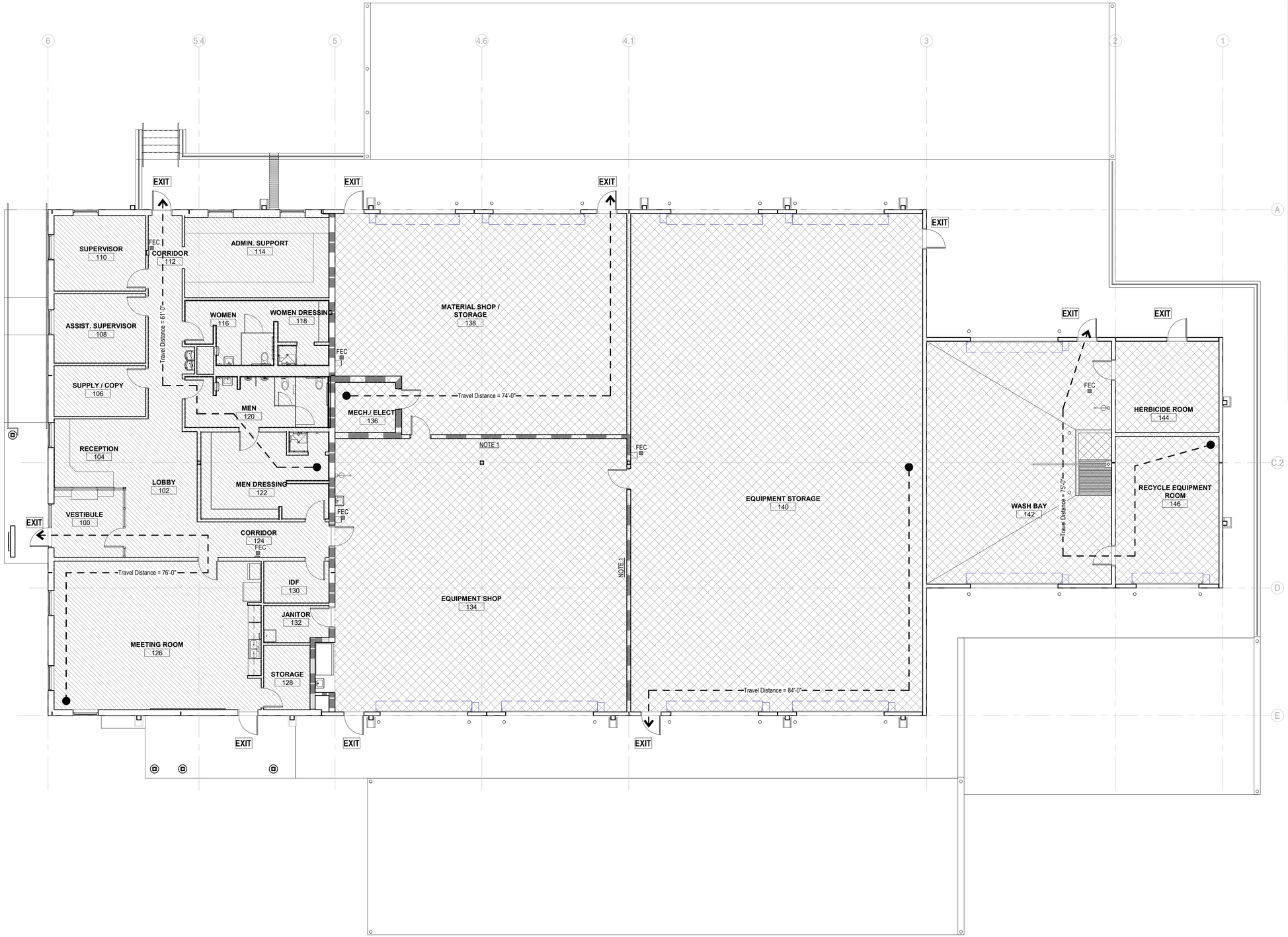
1003526

SHEET TITLE

ADA INFORMATION

SHEET NUMBER

G0.13



EGRESS LEGEND

EGRESS PATH

1 HOUR FIRE RATED WALL

2 HOURS FIRE RATED WALL

FEC

FIRE EXTINGUISHER CABINET WITH 10 LB CAPACITY PORTABLE FIRE EXTINGUISHER

MAX. TRAVEL DISTANCE = 200'-0"

GROUP B OCCUPANCY

MAX. TRAVEL DISTANCE = 200'-0"

GROUP S-2 OCCUPANCY

NOTE 1:
A 1 HR. (MINIMUM) FIRE BARRIER SEPARATION BETWEEN MOTOR VEHICLE REPAIR GARAGE USE (EQUIPMENT SHOP) AND ADJACENT USES IS PROVIDED SO THAT THE FIRE AREA OF THE EQUIPMENT SHOP IS BELOW 5000 S.F.; THUS, SPRINKLERS ARE NOT REQUIRED FOR REPAIR GARAGE PER IBC 903.2.9.1, EXCEPTION 4.

ACCORDING TO THE OWNER, THE AMOUNT OF HAZARDOUS MATERIALS STORED IN THE BUILDING WILL BE LESS THAN THE MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA PERMITTED IN IBC TABLES 307.1(1) AND 307.1(2); AND NFPA 1 TABLES 60.4.2.1.1.3, 60.4.2.1.10.1, 60.4.2.1.13.3(a), AND 60.4.2.1.13.3(b).

EGRESS FLOOR PLAN 1/8" = 1'-0" (1)

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5-10-2019

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PROJECT NAME

NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

SHEET TITLE

EGRESS PLAN

SHEET NUMBER

G2.01

FILENAME: R:\1003300-1004999\1003526.00\WA5_ROCKPORT\04_DOCUMENTS\MODELS\Backup Model\3526-TXDOT Rockport_CChau.rvt
PLOT STAMP: 5/9/2019 11:10:42 AM

GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR TO COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION AND SHORING. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS REQUIRED TO SAFELY COMPLETE WORK AND COMPLY WITH OSHA 29 CFR STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND EXCAVATIONS.

2. CONTRACTOR SHALL NOT ENGAGE IN ACTIVITY IN WHICH PERSONS OR EQUIPMENT MAY COME WITHIN 10 FEET OF ENERGIZED OVERHEAD POWER LINES. FEDERAL REGULATION, TITLE 29, PART 1910.190(1) AND PART 1926.440(A)(15) REQUIRE CLEARANCE OF 10 FEET FROM THESE FACILITIES.

3. CONDITION OF THE ROAD RIGHT-OF-WAY AND ADJACENT PROPERTIES AND FACILITIES UPON COMPLETION OF THE JOB, SHALL BE IN AS GOOD OR IN BETTER CONDITION THAN THE CONDITION PRIOR TO STARTING WORK.

4. PRIOR TO COMMENCING WORK, CONTRACTOR SHALL SUBMIT TO TXDOT A COMPLETE SCHEDULE AND WORK PLAN FOR THE PROPOSED CONSTRUCTION ACTIVITY FOR APPROVAL. THIS SHALL INCLUDE A DESCRIPTION OF THE MEANS AND METHODS FOR EXCAVATION. BLASTING SHALL NOT BE UTILIZED. CONTRACTOR SHALL SUBMIT PROPOSED MATERIAL SPECIFICATIONS AND SHOP DRAWINGS TO TXDOT FOR APPROVAL PRIOR TO COMMENCING WORK FOR ALL OF THE MATERIALS AND FACILITIES INTENDED TO BE UTILIZED ON THE JOB.

5. CONTRACTOR SHALL COORDINATE WITH TXDOT AND RECEIVE PRIOR APPROVAL REGARDING ANY PERSONNEL AND EQUIPMENT ACTIVITY WITHIN TXDOT RIGHT-OF-WAY BEFORE, DURING AND AFTER THE COMPLETION OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS MUTCD, WITH MOST RECENT EDITION WITH REVISIONS) DURING CONSTRUCTION.

6. CONTRACTOR SHALL BE REQUIRED TO KEEP THE TXDOT RIGHT-OF-WAY AND ROADWAYS FREE OF CONSTRUCTION DEBRIS, MUD OR ANY OTHER CONSTRUCTION RELATED MATERIAL. CONTRACTOR ACTIVITY SHALL BE CONDUCTED IN SUCH A MANNER THAT PERSONNEL, TRUCKS, OTHER VEHICLES, EQUIPMENT OR ANY COMPONENT OF THE PROJECT DO NOT CREATE A SAFETY HAZARD ON THE PROJECT SITE OR ON ANY STREETS OR RIGHT-OF-WAY, PUBLIC OR PRIVATE.

7. THESE PLANS AND ANY ATTENDANT DRAWINGS (INCLUDING SHOP DRAWINGS, "AS-BUILTS" DRAWINGS, RECORDED DRAWINGS), ADDENDA, CHANGE ORDERS AND SPECIFICATIONS, PREPARED BY ENGINEER, DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION, CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE ENGINEER'S SEAL AFFIXED TO THESE PLANS DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL INCLUDE THE PLANS AND SPECIFICATIONS REQUIRED BY THE TEXAS HEALTH & SAFETY CODE, CHAPTER 756, SUBCHAPTER C.

8. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE COMMENCING WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPORT ANY DISCREPANCIES TO THE OWNER BEFORE COMMENCING WORK.

9. PUBLIC AND PRIVATE UTILITY LINES AND CUSTOMER SERVICE LINES MAY EXIST THAT ARE NOT SHOWN ON THE DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE, MAINTAIN, AND PROTECT THE INTEGRITY OF THESE LINES. HAND EXCAVATION MAY BE REQUIRED.

10. CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY TO RELOCATE OR DIVERT ANY UTILITY IN CONFLICT WITH PROPOSED CONSTRUCTION SO AS NOT TO DISRUPT SERVICE OF SAME. WHEN APPLICABLE, CONTRACTOR SHALL RESTORE RELOCATED OR DIVERTED UTILITY TO ITS ORIGINAL CONDITION AND LOCATION, AND UPON COMPLETION OF CONSTRUCTION.

11. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSON IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK.

12. CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER SUCH THAT TRUCKS AND OTHER VEHICLES DO NOT CREATE A DIRT AND/OR DUST NUISANCE OR SAFETY HAZARD IN ANY STREETS – PUBLIC OR PRIVATE, SIDEWALKS, DRIVEWAYS, AND PARKING LOTS.

13. CONTRACTOR SHALL ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS THAT CAN BE ISSUED TO CONTRACTOR WILL BE OBTAINED AT HIS EXPENSE.

14. CONTRACTOR SHALL MAINTAIN ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES. CONTRACTOR SHALL CONFIRM AND MAINTAIN ACCESS TO ALL FIRE CONNECTIONS AT BUILDINGS.

FILE NAME: 1003526_GENERAL NOTES.DWG
DATE STAMP: 5/10/2019 11:56:55 AM

CLIENT

Texas Department of Transportation

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PGAL TBPE REG. NO: F-2742

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REGISTRATION

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STATE OF TEXAS
WILLIAM H. PACE
59672
LICENSED
PROFESSIONAL ENGINEER

5-10-2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
	5/10/2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

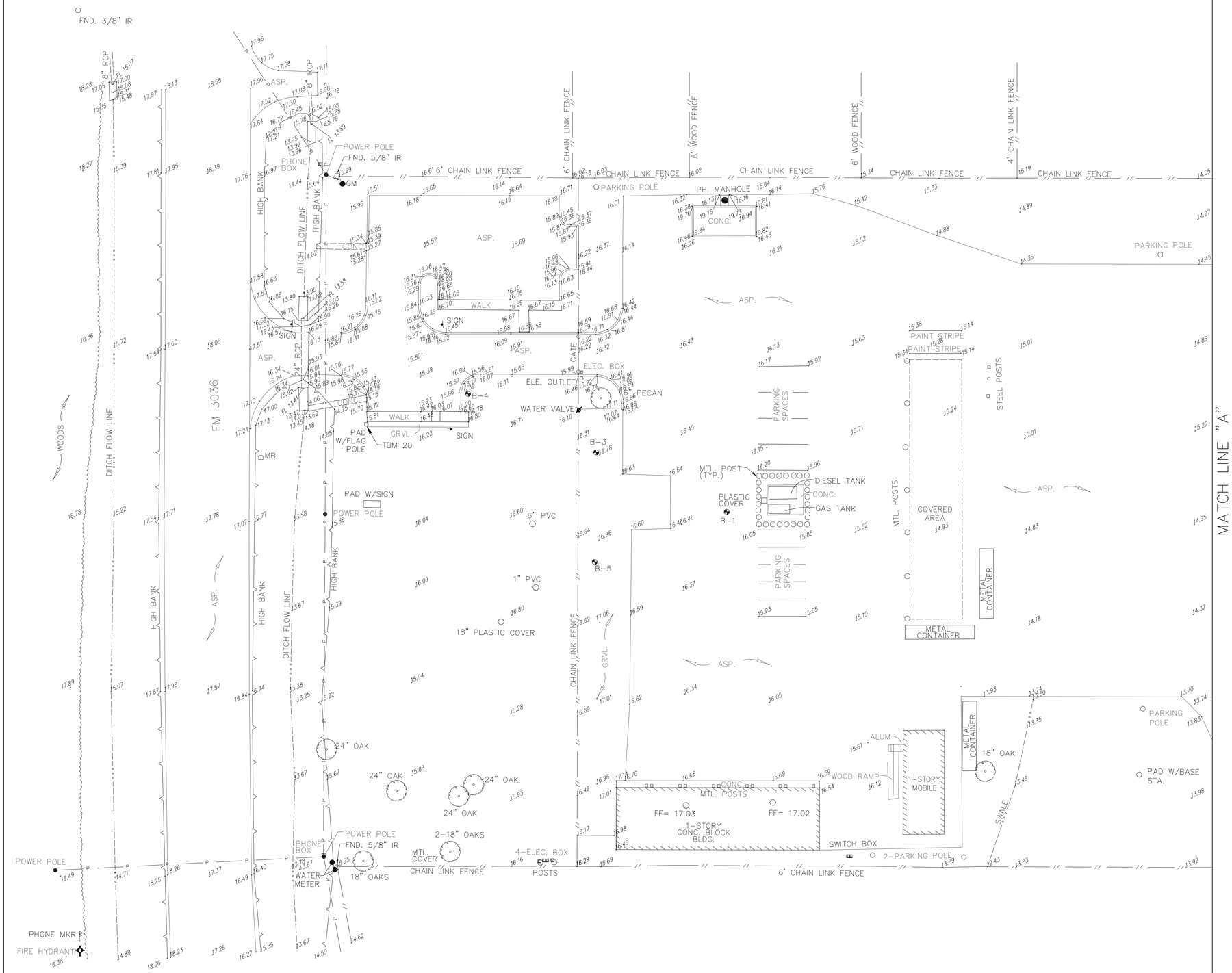
1003526

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

C0.10



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SCALE: 1"=30' (22" x 34")
SCALE: 1"=60' (11" x 17")

NOTES:

1. ALL BEARINGS AND COORDINATES SHOWN HEREON ARE REFERENCED TO THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE (4204), NORTH AMERICAN DATUM OF 1983(NAD83). ALL DISTANCES AND COORDINATES SHOWN ARE SURFACE VALUES AND MAY BE CONVERTED TO GRID BY DIVIDING BY THE COMBINED ADJUSTMENT FACTOR OF 0.9998940.

2. TXDOT CONTROL POINTS ARANSAS AND TBM20 WERE HELD FOR HORIZONTAL CONTROL AS PUBLISHED. TBM20 AND ARANSAS WERE RECOVERED BY LANDTECH, INC. HORIZONTAL SURVEY METHOD: GPS (TXDOT VRS).

3. ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988(NAVD88), JUNE 1997 ADJ.

4. FIELD SURVEYS WERE PERFORMED NOVEMBER–DECEMBER, 2018.

5. UNIT OF MEASURE: U.S. SURVEY FEET

PROJECT CONTROL:

BM	ELEV.	DESCRIPTION
TBM 20	16.562 FT.	CHIPPED SQUARE ON THE SOUTHWEST CORNER OF THE TXDOT FLAG POLE IN FRONT OF THE HIGHWAY DEPT. OFFICE IN ROCKPORT ON THE NORTH SIDE OF FM 3036, 90.3' NORTH OF THE CENTERLINE OF FM 3036, & 39.3' EAST OF THE CENTERLINE OF THE DRIVEWAY INTO THE TXDOT OFFICE & MAINTENANCE YARD. (ARANSAS CO.) (N=13211631.633, E=2597556.428)
ARANSAS		BRASS DISK SET ON A STAINLESS STEEL ROD IN THE NORTHEAST CORNER OF THE TXDOT MAINTENANCE YARD IN ROCKPORT, 70.5' SOUTHWEST OF THE NORTHEAST CORNER OF THE CHAIN LINK FENCE CORNER, 72.0' NORTH OF AN OAK TREE. (ARANSAS CO.) (N=13212616.1050, E=2597931.1004)

CLIENT

Texas Department of Transportation

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TBPE Registration No. F-1364;
TBPLS Registration No. 10019100

STATE OF TEXAS · REGISTERED · DENNIS E. CHALAIRE · 5469 · PROFESSIONAL LAND SURVEYOR

Dennis E. Chalaire 5/10/19

REGISTRATION

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DRAWING HISTORY

No.	DATE	DESCRIPTION
1	5/6/19	ADDED CHAPARRAL ST.

PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

SHEET TITLE

TOPOGRAPHIC SURVEY
(1 OF 3)

SHEET NUMBER

C1.01

FILE NAME: ROCKPORT MAINTENANCE FACILITY.dwg
DATE STAMP: 5/6/2019 10:51:51 AM



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SCALE: 1"=30' (22" x 34")
SCALE: 1"=60' (11" x 17")

NOTES:

1. ALL BEARINGS AND COORDINATES SHOWN HEREON ARE REFERENCED TO THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE (4204), NORTH AMERICAN DATUM OF 1983(NAD83). ALL DISTANCES AND COORDINATES SHOWN ARE SURFACE VALUES AND MAY BE CONVERTED TO GRID BY DIVIDING BY THE COMBINED ADJUSTMENT FACTOR OF 0.9998940.

2. TXDOT CONTROL POINTS ARANSAS AND TBM20 WERE HELD FOR HORIZONTAL CONTROL AS PUBLISHED. TBM20 AND ARANSAS WERE RECOVERED BY LANDTECH, INC. HORIZONTAL SURVEY METHOD: GPS (TXDOT VRS).

3. ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988(NAVD88), JUNE 1997 ADJ.

4. FIELD SURVEYS WERE PERFORMED NOVEMBER–DECEMBER, 2018.

5. UNIT OF MEASURE: U.S. SURVEY FEET

PROJECT CONTROL:

BM	ELEV.	DESCRIPTION
TBM 20	16.562 FT.	CHIPPED SQUARE ON THE SOUTHWEST CORNER OF THE TXDOT FLAG POLE IN FRONT OF THE HIGHWAY DEPT. OFFICE IN ROCKPORT ON THE NORTH SIDE OF FM 3036, 90.3' NORTH OF THE CENTERLINE OF FM 3036, & 39.3' EAST OF THE CENTERLINE OF THE DRIVEWAY INTO THE TXDOT OFFICE & MAINTENANCE YARD. (ARANSAS CO.) (N=13211631.633, E=2597556.428)
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FILE NAME: ROCKPORT MAINTENANCE FACILITY.DWG
DATE STAMP: 5/6/2019 10:52:23 AM

CLIENT

Texas Department of Transportation

125 E. 11th STREET,
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ARCHITECT

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TBPE Registration No. F-1364;
TBPLS Registration No. 10019100

STATE OF TEXAS
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DENNIS E. CHALAIRE
5469
PROFESSIONAL
LAND SURVEYOR

Dennis E. Chalaire 5/10/19

REGISTRATION

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DRAWING HISTORY

No.	DATE	DESCRIPTION
1	5/6/19	ADDED CHAPARRAL ST.

PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

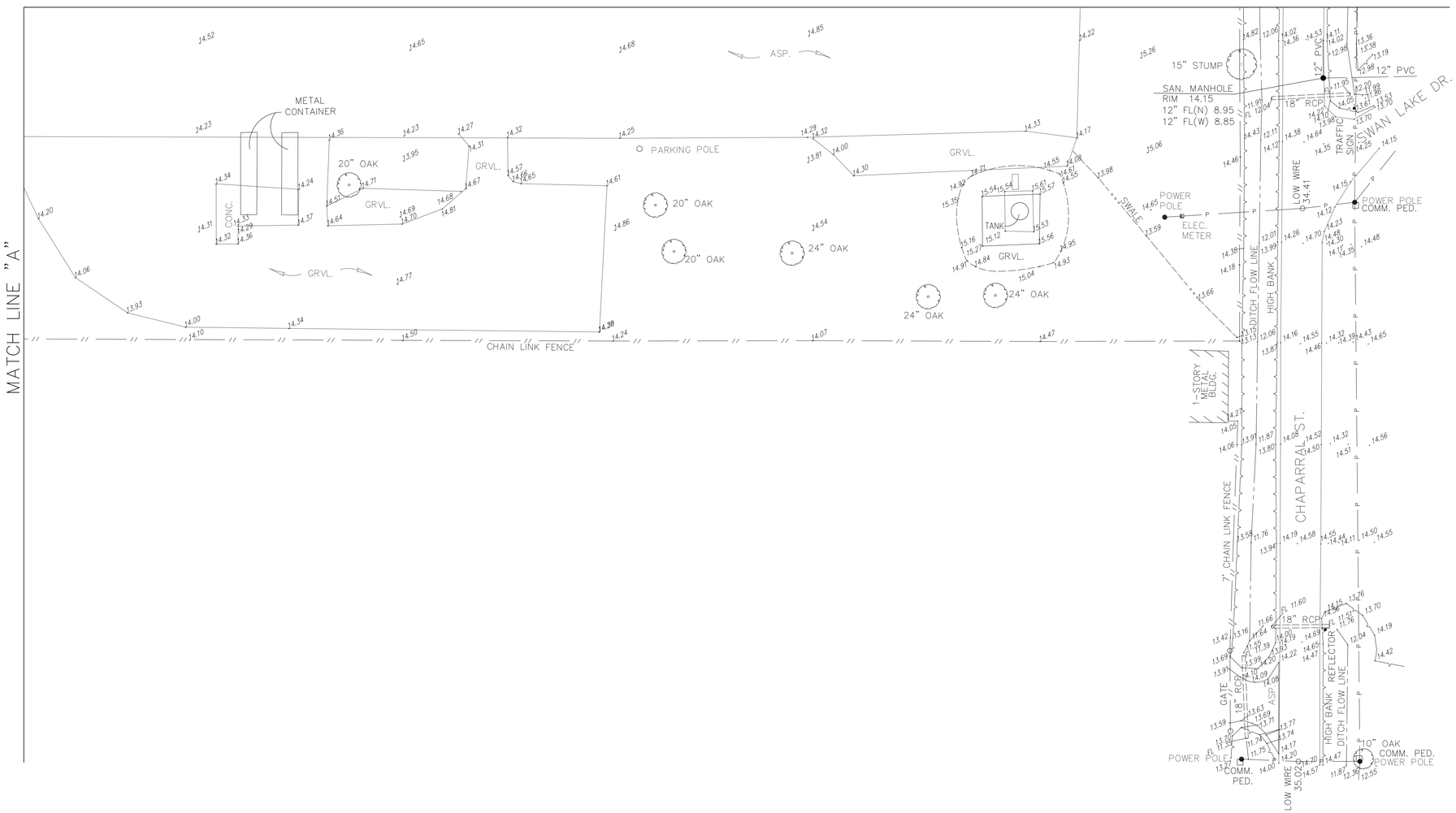
1003526

SHEET TITLE

TOPOGRAPHIC SURVEY (2 OF 3)

SHEET NUMBER

C1.02



0 30 60

SCALE: 1"=30' (22" x 34")
SCALE: 1"=60' (11" x 17")

NOTES:

1. ALL BEARINGS AND COORDINATES SHOWN HEREON ARE REFERENCED TO THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE (4204), NORTH AMERICAN DATUM OF 1983(NAD83). ALL DISTANCES AND COORDINATES SHOWN ARE SURFACE VALUES AND MAY BE CONVERTED TO GRID BY DIVIDING BY THE COMBINED ADJUSTMENT FACTOR OF 0.9998940.

2. TXDOT CONTROL POINTS ARANSAS AND TBM20 WERE HELD FOR HORIZONTAL CONTROL AS PUBLISHED. TBM20 AND ARANSAS WERE RECOVERED BY LANDTECH, INC. HORIZONTAL SURVEY METHOD: GPS (TXDOT VRS).

3. ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988(NAVD88), JUNE 1997 ADJ.

4. FIELD SURVEYS WERE PERFORMED NOVEMBER–DECEMBER, 2018.

5. UNIT OF MEASURE: U.S. SURVEY FEET

PROJECT CONTROL:

BM	ELEV.	DESCRIPTION
TBM 20	16.562 FT.	CHIPPED SQUARE ON THE SOUTHWEST CORNER OF THE TXDOT FLAG POLE IN FRONT OF THE HIGHWAY DEPT. OFFICE IN ROCKPORT ON THE NORTH SIDE OF FM 3036, 90.3' NORTH OF THE CENTERLINE OF FM 3036, & 39.3' EAST OF THE CENTERLINE OF THE DRIVEWAY INTO THE TXDOT OFFICE & MAINTENANCE YARD. (ARANSAS CO.) (N=13211631.633, E=2597556.428)
ARANSAS		BRASS DISK SET ON A STAINLESS STEEL ROD IN THE NORTHEAST CORNER OF THE TXDOT MAINTENANCE YARD IN ROCKPORT, 70.5' SOUTHWEST OF THE NORTHEAST CORNER OF THE CHAIN LINK FENCE CORNER, 72.0' NORTH OF AN OAK TREE. (ARANSAS CO.) (N=13212616.1050, E=2597931.1004)

CLIENT

Texas Department of Transportation

125 E. 11th STREET,
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LANDTECH

2525 North Loop West, Suite 300,
Houston, Texas 77008
T: 713-861-7068 F: 713-861-4131
TBPE Registration No. F-1364;
TBPLS Registration No. 10019100

STATE OF TEXAS · REGISTERED · DENNIS E. CHALAIRE · 5469 · PROFESSIONAL LAND SURVEYOR

Dennis E. Chalaire 5/10/19

REGISTRATION

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DRAWING HISTORY

No.	DATE	DESCRIPTION
1	5/6/19	ADDED CHAPARRAL ST.

PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

SHEET TITLE

TOPOGRAPHIC SURVEY
(3 OF 3)

SHEET NUMBER

C1.03

FILE NAME: ROCKPORT MAINTENANCE FACILITY.DWG
DATE STAMP: 5/9/2019 10:52:48 AM

1. ALL DIMENSIONS AND COORDINATES ARE TO FACE OF CURB OR OUTSIDE OF BUILDING FACE UNLESS NOTED OTHERWISE.
2. REFER TO SHTS C1.01 & C1.02 – TOPOGRAPHIC SURVEY PREPARED BY LANDTECH DATED 5/6/2019 FOR EXISTING CONDITIONS, SURVEY BENCHMARKS, HORIZONTAL AND VERTICAL CONTROL.
3. ALL DISTURBED GRASS AND NON–PAVED AREAS NOT INDICATED FOR IMPROVEMENTS BY LANDSCAPING PLANS ARE TO BE STABILIZED AND RESTORED WITH 4" MINIMUM TOPSOIL AND SODDING AS INDICATED TO MATCH FINISH GRADES PER GRADING PLAN.
4. REFER TO ARCHITECTURAL AND LANDSCAPING PLANS FOR SPECIAL PAVING FINISH MATERIALS AND DETAILS.
5. REFER TO PROJECT EARTHWORK SPECIFICATIONS AND GEOTECHNICAL REPORT FOR PREPARATION OF BUILDING AND PAVING SUBGRADES.
6. REFER TO PROJECT SPECIFICATIONS FOR ALL MINIMUM AND ADDITIONAL REQUIREMENTS.

GENERAL NOTES 3

PROPOSED CONCRETE SIDEWALK OR SLOPE PAVING

PROPOSED CONCRETE TRAFFIC PAVING

PROPOSED ASPHALT TRAFFIC PAVING

0' 50' 100'

SCALE IN FEET
1" = 50' (22"x34")
1" = 100' (11"x17")

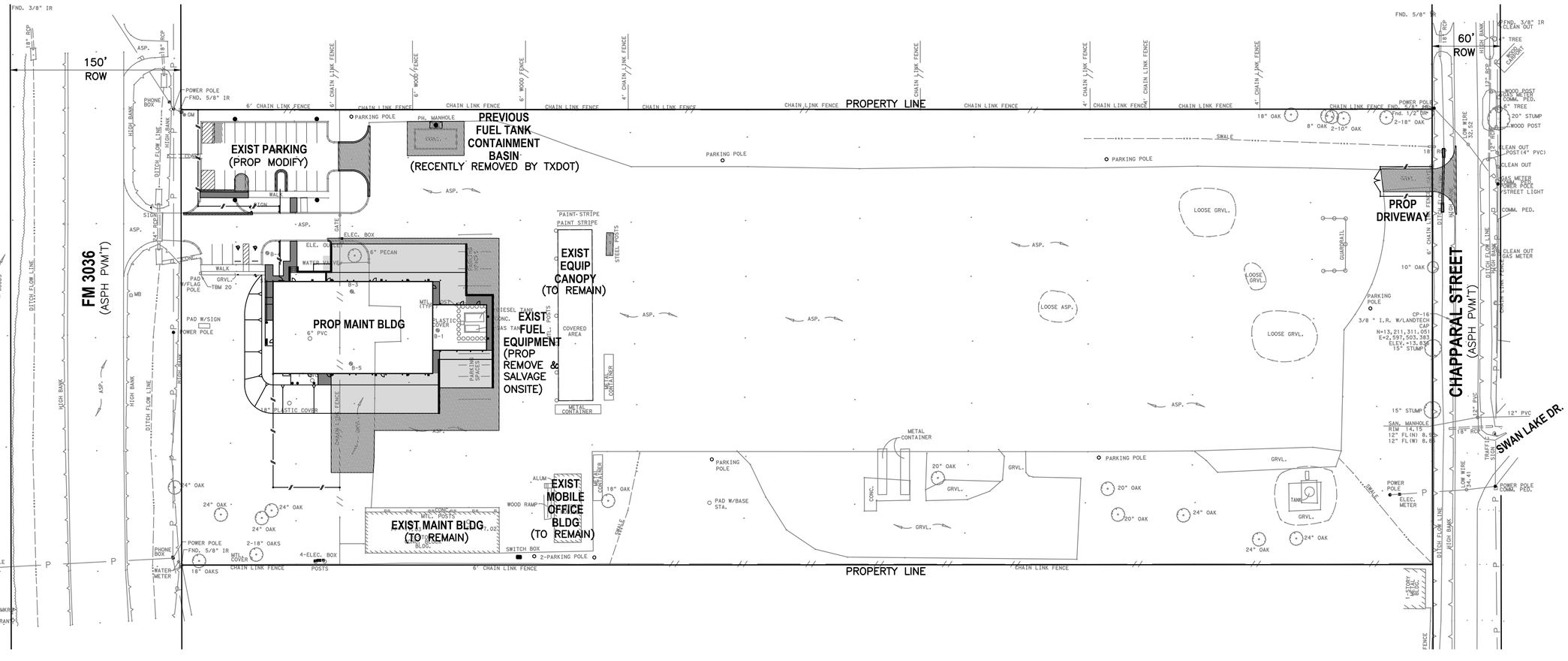
LEGEND 2

BENCHMARK:

ARANSAS – BRASS DISK SET ON A STAINLESS STEEL ROD IN THE NORTHEAST CORNER OF THE TXDOT MAINTENANCE YARD IN ROCKPORT, 70.5' SOUTHWEST OF THE NORTHEAST CORNER OF THE CHAIN LINK FENCE CORNER, 72.0' NORTH OF AN OAK TREE. (ARANSAS CO.) (N=13212616.1050, E=2597931.1004)

TEMPORARY BENCHMARKS:

TBM "20" – CHIPPED SQUARE ON THE SOUTHWEST CORNER OF THE TXDOT FLAG POLE IN FRONT OF THE HIGHWAY DEPT. OFFICE IN ROCKPORT ON THE NORTH SIDE OF FM 3036, 90.3' NORTH OF THE CENTERLINE OF FM 3036, & 39.3' EAST OF THE CENTERLINE OF THE DRIVEWAY INTO THE TXDOT OFFICE & MAINENANCE YARD. (ARANSAS CO.) (N=13211631.633, E=2597556.428) ELEV.=16.562 FT



OVERALL SITE LAYOUT

1"=50' 1

CLIENT

Texas Department of Transportation

125 E. 11th STREET,
AUSTIN, TEXAS 78701-2483
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ARCHITECT

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WILLIAM H. PACE
59672
LICENSED
PROFESSIONAL ENGINEER
5-10-2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
	5/10/2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

SHEET TITLE

OVERALL SITE LAYOUT

SHEET NUMBER

C2.00

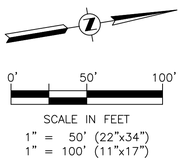
FILE NAME: C200-3306 OVERALL SITE LAYOUT.DWG
DATE STAMP: 5/10/2019 11:51:19 AM

KEY NOTES (4)

1. SAWCUT, REMOVE AND DISPOSE OF CONCRETE CURB.
2. REMOVE AND DISPOSE OF CHAIN LINK FENCE, GATES AND FOUNDATIONS.
3. REMOVE AND DISPOSE OF GRAVEL AREA.
4. REMOVE AND SALVAGE FUELING EQUIPMENT INCLUDING DIESEL TANK, GAS TANK AND FUEL DISPENSERS.
5. REMOVE AND DISPOSE OF CONCRETE FOUNDATION PAD.
6. REMOVE AND DISPOSE PECAN TREE.
7. REMOVE AND DISPOSE OF STEEL POSTS AND FOUNDATION.
8. SAWCUT, REMOVE AND DISPOSE ASPHALT PAVING & BASE.
9. REMOVE AND DISPOSE OF SIGN AND FOUNDATION.
10. REMOVE AND SALVAGE OR RELOCATE SIGN FOR OWNER.
11. CONCRETE CONTAINMENT BASIN AND ADJACENT ASPHALT PAVING & BASE REMOVED BY OWNER.
12. SAWCUT, REMOVE AND DISPOSE ASPHALT PAVING SURFACE AT PROP DRIVE INTERFACE. REFER TO SITE PLAN FOR PROP DRIVE LOCATION.

GENERAL NOTES (3)

1. CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS AND PROVIDE ALL REQUIRED NOTIFICATIONS PRIOR TO WORK.
2. ALL DEMOLITION WORK TO BE PERFORMED WITHIN PROJECT PROPERTY LINES UNLESS AUTHORIZED OTHERWISE BY APPLICABLE PROPERTY OWNER. NO WORK TO BE PERFORMED WITHIN ADJACENT STREET ROW UNTIL APPLICABLE PERMITS OBTAINED AND NOTIFICATIONS ARE PROVIDED.
3. REMOVE ALL ITEMS AS REQUIRED TO FACILITATE PROPOSED CONSTRUCTION. NOTIFY ENGINEER AND OBTAIN APPROVAL PRIOR TO WORK FOR REMOVAL OF ANY ITEMS FOUND NOT INDICATED ON THIS PLAN.
4. REMNANTS OF BURIED STRUCTURES OR ABANDONED UTILITIES SHALL BE REMOVED TO A MINIMUM OF 24 INCHES BELOW FINAL SUBGRADE ELEVATION UNLESS INDICATED OTHERWISE. ALL ABANDONED UTILITIES AUTHORIZED TO REMAIN SHALL BE CAPPED WATERTIGHT.
5. ALL SOILS DISTURBED DURING THE DEMOLITION OF STRUCTURES, TREES, OR UNDERGROUND UTILITIES SHALL BE REMOVED OR REPLACED AND COMPACTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT RECOMMENDATIONS.
6. REFER TO SITE PLAN FOR LIMITS OF DEMOLITION BASED ON PROPOSED IMPROVEMENTS.
7. INSTALL ALL APPLICABLE SWPPP CONTROLS PRIOR TO DEMOLITION WORK. RE: SHT C5.00.



BENCHMARK:

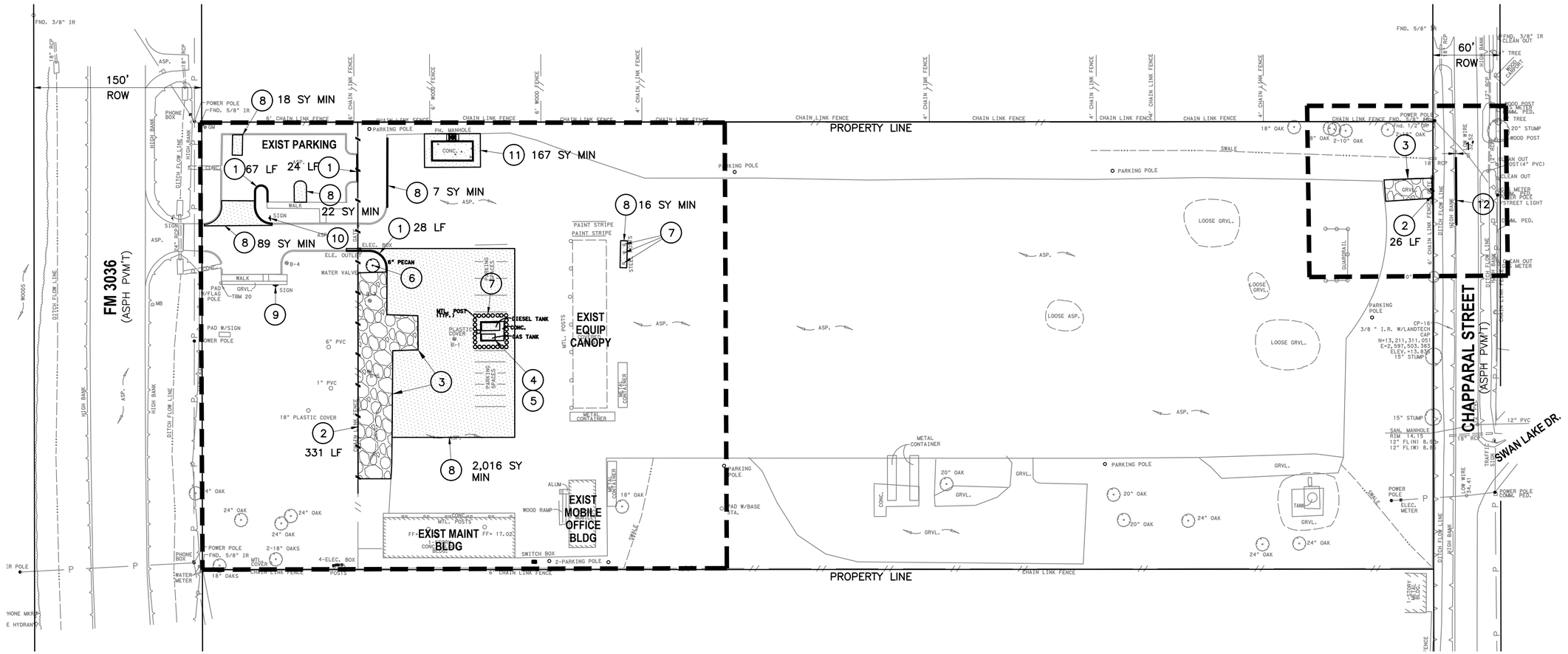
ARANSAS – BRASS DISK SET ON A STAINLESS STEEL ROD IN THE NORTHEAST CORNER OF THE TXDOT MAINTENANCE YARD IN ROCKPORT, 70.5' SOUTHWEST OF THE NORTHEAST CORNER OF THE CHAIN LINK FENCE CORNER, 72.0' NORTH OF AN OAK TREE. (ARANSAS CO.) (N=13212616.1050, E=2597931.1004)

TEMPORARY BENCHMARKS:

TBM "20" – CHIPPED SQUARE ON THE SOUTHWEST CORNER OF THE TXDOT FLAG POLE IN FRONT OF THE HIGHWAY DEPT. OFFICE IN ROCKPORT ON THE NORTH SIDE OF FM 3036, 90.3' NORTH OF THE CENTERLINE OF FM 3036, & 39.3' EAST OF THE CENTERLINE OF THE DRIVEWAY INTO THE TXDOT OFFICE & MAINENANCE YARD. (ARANSAS CO.) (N=13211631.633, E=2597556.428) ELEV.=16.562 FT

LEGEND (2)

- ASPHALT PAVING TO BE REMOVED
- GRAVEL PAVING TO BE REMOVED
- WORK AREA LIMITS



DEMOLITION PLAN

1"=50' (1)

FILE NAME: 1210-2536 DEMOLITION PLAN.DWG
DATE STAMP: 5/10/2019 11:51:49 AM

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125 E. 11th STREET,
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STATE OF TEXAS
WILLIAM H. PACE
59672
LICENSED PROFESSIONAL ENGINEER
5-10-2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
	5/10/2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C2.10

GENERAL NOTES 3

1. ALL DIMENSIONS AND COORDINATES ARE TO FACE OF CURB OR OUTSIDE OF BUILDING FACE UNLESS NOTED OTHERWISE.
2. REFER TO SHTS C1.01 & C1.02 – TOPOGRAPHIC SURVEY PREPARED BY LANDTECH DATED 5/6/2019 FOR EXISTING CONDITIONS, SURVEY BENCHMARKS, HORIZONTAL AND VERTICAL CONTROL.
3. ALL DISTURBED GRASS AND NON–PAVED AREAS NOT INDICATED FOR IMPROVEMENTS BY LANDSCAPING PLANS ARE TO BE STABILIZED AND RESTORED WITH 4" MINIMUM TOPSOIL AND HYDROMULCH SEEDING AS INDICATED TO MATCH FINISH GRADES PER GRADING PLAN.
4. REFER TO ARCHITECTURAL AND LANDSCAPING PLANS FOR SPECIAL PAVING FINISH MATERIALS AND DETAILS.
5. REFER TO PROJECT EARTHWORK SPECIFICATIONS AND GEOTECHNICAL REPORT FOR PREPARATION OF BUILDING AND PAVING SUBGRADES.
6. REFER TO PROJECT SPECIFICATIONS FOR ALL MINIMUM AND ADDITIONAL REQUIREMENTS.

LEGEND 4

PROPOSED CONCRETE SIDEWALK OR SLOPE PAVING

PROPOSED CONCRETE TRAFFIC PAVING

PROPOSED ASPHALT TRAFFIC PAVING

0' 30' 60'

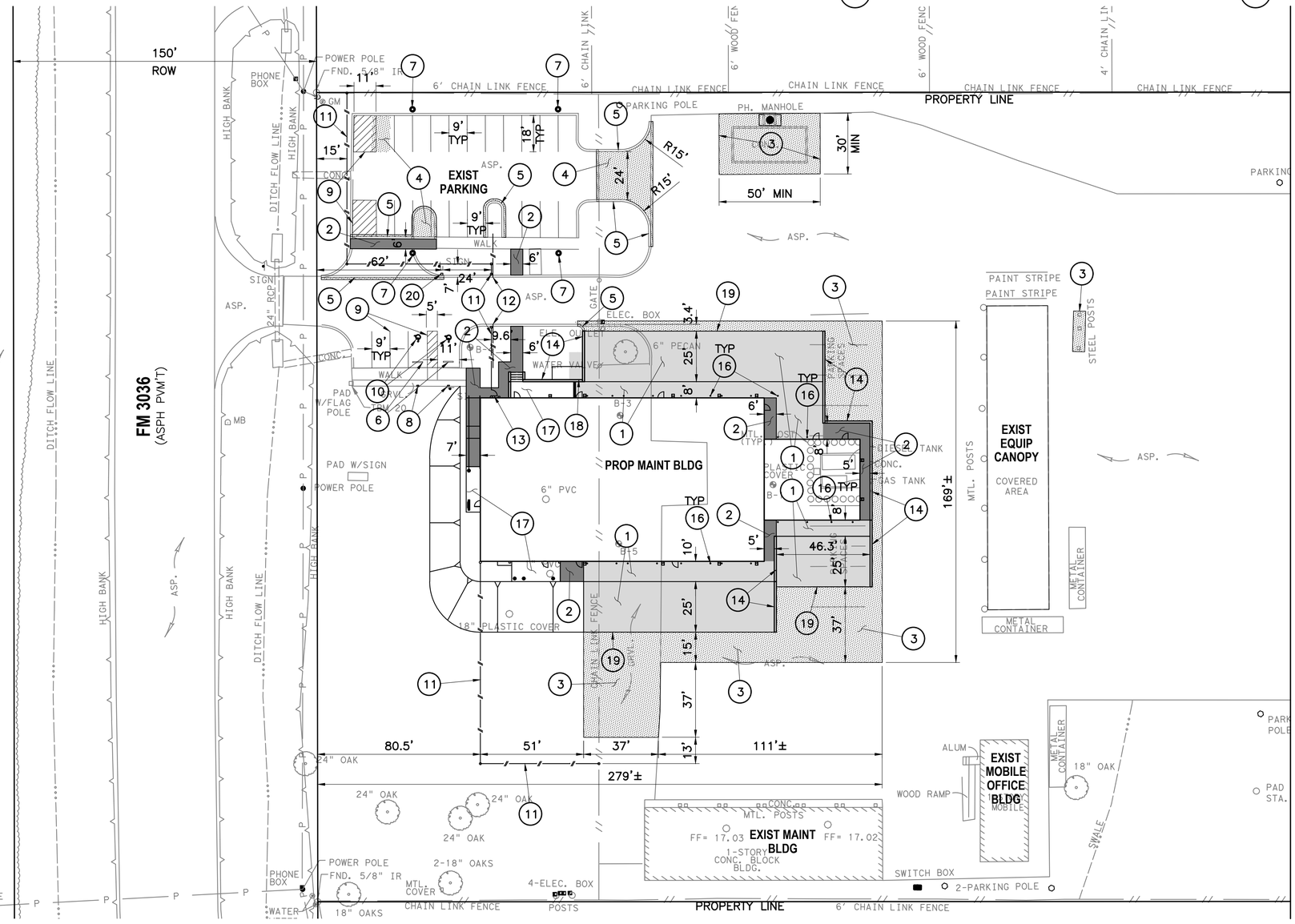
SCALE IN FEET
1" = 30' (22"x34")
1" = 60' (11"x17")

BENCHMARK:

ARANSAS – BRASS DISK SET ON A STAINLESS STEEL ROD IN THE NORTHEAST CORNER OF THE TXDOT MAINTENANCE YARD IN ROCKPORT, 70.5' SOUTHWEST OF THE NORTHEAST CORNER OF THE CHAIN LINK FENCE CORNER, 72.0' NORTH OF AN OAK TREE. (ARANSAS CO.) (N=13212616.1050, E=2597931.1004)

TEMPORARY BENCHMARKS:

TBM "20" – CHIPPED SQUARE ON THE SOUTHWEST CORNER OF THE TXDOT FLAG POLE IN FRONT OF THE HIGHWAY DEPT. OFFICE IN ROCKPORT ON THE NORTH SIDE OF FM 3036, 90.3' NORTH OF THE CENTERLINE OF FM 3036, & 39.3' EAST OF THE CENTERLINE OF THE DRIVEWAY INTO THE TXDOT OFFICE & MAINENANCE YARD. (ARANSAS CO.) (N=13211631.633, E=2597556.428) ELEV.=16.562 FT



KEY NOTES 2

1. PROP 6" CONCRETE TRAFFIC PAVING, RE: DTL 1, SHT C7.00.
2. PROP 4.5" CONCRETE SIDEWALK PAVING, RE: DTL 3, SHT C7.00.
3. PROP HEAVY DUTY ASPHALT PAVING (2" HMAC/14" LIMESTONE BASE OR 6" ASPHALT BASE), RE: DTL 2, SHT C7.00.
4. PROP LIGHT DUTY ASPHALT PAVING (2" HMAC/10" LIMESTONE BASE OR 4" ASPHALT BASE), RE: DTL 2, SHT C7.00.
5. PROP 12" WIDE CONCRETE CURB, RE: DTL 5, SHT C7.00.
6. PROP PRECAST CONCRETE WHEELSTOP, DTL 4, SHT C7.00.
7. PROP LIGHT POLE FOUNDATION, 3' MIN FROM FACE OF CURB. RE: DTL 1, SHT C7.11.
8. PROP ADA RESERVED PARKING SIGN (STD FOR 9' WIDE SPACE, VAN ACCESSIBLE FOR 11' WIDE SPACE), DTL 3, SHT C7.11.
9. PROP 4" WIDE TRAFFIC PAINT STRIPING (WHITE TYPICAL UNLESS NOTED OTHERWISE). SPACE AT 2' ON CENTER AT 45° ANGLE WITH PERIMETER BORDER FOR ALL HATCH AREAS.
10. PROP ADA RESERVED PARKING SYMBOL (TRAFFIC PAINT OR PAVEMENT MARKER), RE: DTL 4, SHT C7.11.
11. PROP 6' CHAIN LINK FENCE WITH 3–STRAND BARBED WIRE, RE: DTL 1, SHT C7.31.
12. PROP DOUBLE LEAF ELECTRIC SLIDE GATE WITH 24' CLEAR OPENING AND REMOTE CONTROLS, RE: DTL 1, SHT C7.32.
13. PROP MANUAL PERSONNEL GATE WITH 3' CLEAR OPENING AND CARD READER LOCK, RE: DTL 1, SHT C7.31.
14. PROP RETAINING WALL W/RAILING, RE: STRUCTURAL (WALL) & ARCHITECTURAL (RAILING).
15. PROP RAISED CONCRETE FUEL EQUIPMENT FOUNDATION, RE: STRUCTURAL.
16. PROP 6" PIPE BOLLARD, RE: DTL 2, SHT C7.11.
17. PROP BUILDING WORK PAVING, RE: STRUCTURAL.
18. PROP AC CONDENSER FOUNDATION, RE: STRUCTURAL.
19. PROP CONCRETE PAVEMENT HEADER, RE: DTL 6, SHT C7.00
20. PROP 72" HT DUAL PAD CARD READER MOUNT PEDESTAL (PEDESTAL PRO MODEL 72–DSP–3–12–12–BLK OR APPROVED EQUAL), AND CONCRETE FOUNDATION (3,500 PSI @ 28 DAYS, 18" DIA x 36" MIN DEPTH DRILLED SHAFT REINFORCED WITH 6 #5's VERT WITHIN #3–12" DIA TIES SPA @ 12" MAX).

SITE PLAN (SOUTH)

1"=30' 1

FILE NAME: 1221-3036 SITE PLAN (SOUTH).DWG
DATE STAMP: 5/10/2019 11:53:53 AM

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125 E. 11th STREET,
AUSTIN, TEXAS 78701-2483
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59672
LICENSED
PROFESSIONAL ENGINEER
5–10–2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
	5/10/2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

SHEET TITLE

SITE PLAN (SOUTH)

SHEET NUMBER

C2.21

GENERAL NOTES (2)

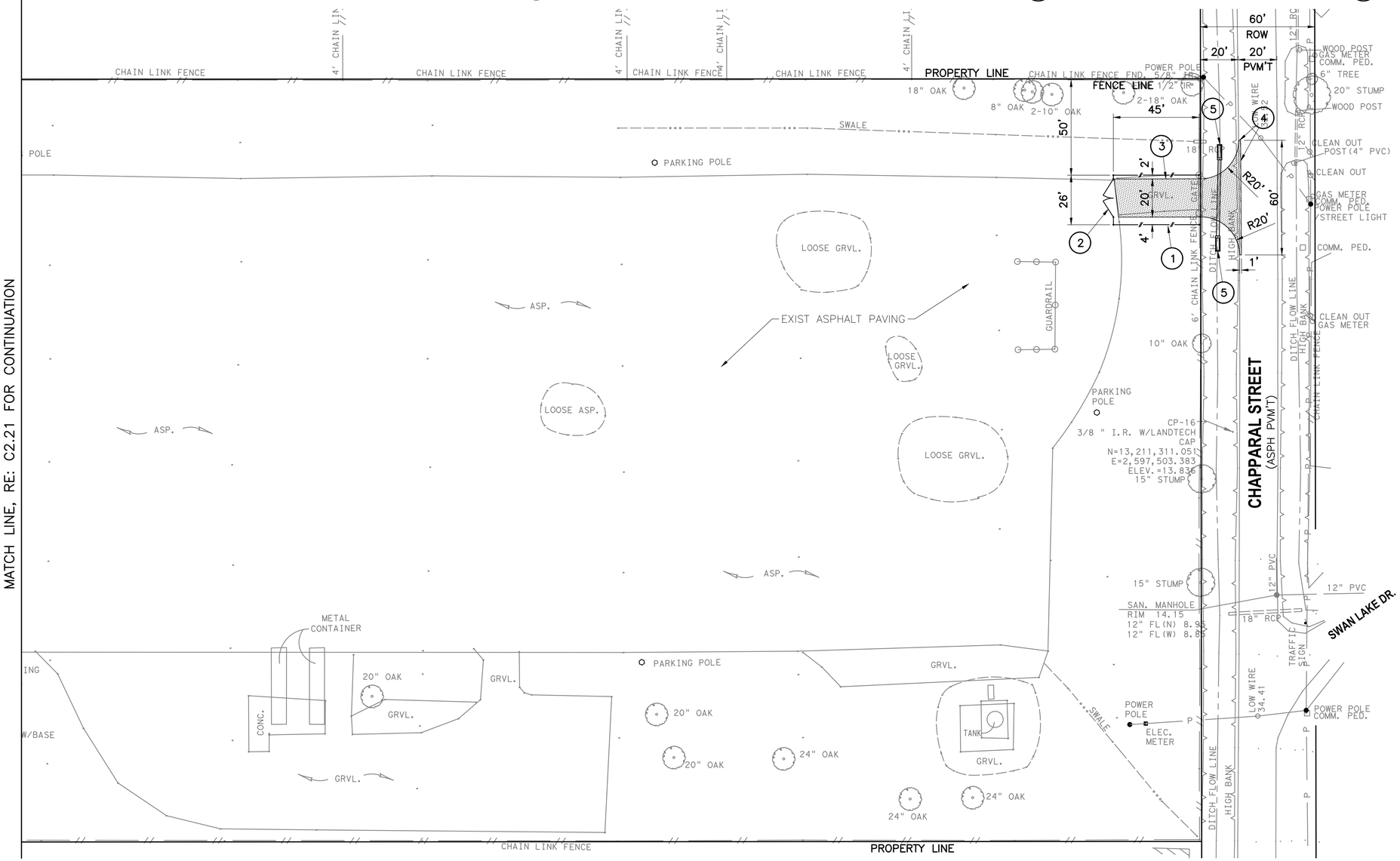
1. REFER TO SHTS C1.01 & C1.02 – TOPOGRAPHIC SURVEY PREPARED BY LANDTECH DATED 5/6/2019 FOR EXISTING CONDITIONS, SURVEY BENCHMARKS, HORIZONTAL AND VERTICAL CONTROL.
2. ALL DISTURBED GRASS AND NON–PAVED AREAS NOT INDICATED FOR IMPROVEMENTS BY LANDSCAPING PLANS ARE TO BE STABILIZED AND RESTORED WITH 4" MINIMUM TOPSOIL AND HYDROMULCH SEEDING.
3. REFER TO PROJECT EARTHWORK SPECIFICATIONS AND GEOTECHNICAL REPORT FOR PREPARATION OF PAVING SUBGRADES.
4. REFER TO PROJECT SPECIFICATIONS FOR ALL MINIMUM AND ADDITIONAL REQUIREMENTS.
5. CONTRACTOR SHALL OBTAIN DRIVEWAY/CULVERT PERMIT FROM CITY OF FULTON PRIOR TO ANY WORK WITHIN THE CHAPPARAL STREET ROW.

KEY NOTES (3)

1. PROP GATE & 6' CHAIN LINK FENCE WITH 3–STRAND BARBED WIRE TO CONNECT TO EXISTING FENCE, RE: DTL 1, SHT C7.31.
2. PROP DOUBLE SWING GATE W/DROP ROD & 20' CLEAR OPENING CENTERED ON DRIVE, RE: DTL 1, SHT C7.31.
3. PROP HEAVY DUTY ASPHALT PAVING (2" HMAC/6" ASPHALT BASE), RE: DTL 2, SHT C7.00.
4. PROP SAWCUT AT PAVING INTERFACE.
5. RE: SHT C4.12–UTILITY PLAN (NORTH) FOR PROP CULVERT IMPROVEMENTS AND GRADING.

LEGEND (4)

PROPOSED ASPHALT TRAFFIC PAVING



0' 30' 60'

SCALE IN FEET
1" = 30' (22"x34")
1" = 60' (11"x17")

SITE PLAN (NORTH)

1"=30' (1)

FILE NAME: C22-SITE PLAN (NORTH).DWG
DATE STAMP: 5/10/2019 11:52:29 AM

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CONSULTANT

BENCHMARK:

ARANSAS – BRASS DISK SET ON A STAINLESS STEEL ROD IN THE NORTHEAST CORNER OF THE TXDOT MAINTENANCE YARD IN ROCKPORT, 70.5' SOUTHWEST OF THE NORTHEAST CORNER OF THE CHAIN LINK FENCE CORNER, 72.0' NORTH OF AN OAK TREE. (ARANSAS CO.) (N=13212616.1050, E=2597931.1004)

TEMPORARY BENCHMARKS:

TBM "20" – CHIPPED SQUARE ON THE SOUTHWEST CORNER OF THE TXDOT FLAG POLE IN FRONT OF THE HIGHWAY DEPT. OFFICE IN ROCKPORT ON THE NORTH SIDE OF FM 3036, 90.3' NORTH OF THE CENTERLINE OF FM 3036, & 39.3' EAST OF THE CENTERLINE OF THE DRIVEWAY INTO THE TXDOT OFFICE & MAINENANCE YARD. (ARANSAS CO.) (N=13211631.633, E=2597556.428) ELEV.=16.562 FT

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59672
LICENSED
PROFESSIONAL ENGINEER

5-10-2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
	5/10/2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

SHEET TITLE

SITE PLAN
(NORTH)

SHEET NUMBER

C2.22

KEY NOTES 5

1. APPROXIMATE SAW CUT LIMITS OF PAVING REMOVAL AND REPLACEMENT. NEW PAVING ELEVATION TO MATCH EXISTING.
2. MATCH EXISTING TOP OF CURB ELEVATION.
3. TOP OF STRUCTURAL RETAINING WALL TO EXTEND 6" HIGHER THAN TOP OF ADJACENT VEHICULAR RAMP PAVING.
4. TOP OF STRUCTURAL RETAINING WALL TO BE FLUSH WITH BUILDING PERIMETER WALK PAVING.

GENERAL NOTES 4

1. ALL SPOT ELEVATIONS SHOWN ARE TOP OF PAVEMENT OR FINISH GRADE UNLESS OTHERWISE NOTED (IE; TC–TOP OF CURB, TG–TOP OF GRATE, TR–TOP OF RIM, TW–TOP OF WALL, TD–TOP OF DOCK).
2. CONTRACTOR SHALL CUT AND FILL SITE AS REQUIRED TO OBTAIN FINISHED ELEVATIONS SHOWN ON PLANS. COMPACT SELECT FILL BACKFILL MATERIAL TO 95% STANDARD PROCTOR DENSITY AS PER ASTM D–698 AND IN CONFORMANCE WITH GEOTECHNICAL REPORT REQUIREMENTS.
3. ALL SIDEWALKS, PEDESTRIAN WALKWAYS AND ACCESSIBLE ROUTES SHALL HAVE A SLOPE OF NO MORE THAN 5% IN THE DIRECTION OF TRAVEL OR LONGITUDINAL DIRECTION (EXCEPT RAMPS) AND 2% CROSS SLOPE IN THE TRANSVERSE DIRECTION.

LEGEND 3

PROPOSED CONCRETE SIDEWALK OR SLOPE PAVING

PROPOSED CONCRETE TRAFFIC PAVING

PROPOSED ASPHALT TRAFFIC PAVING

16.50 — PROP SPOT ELEV

+ 16.61 — EXISTING SPOT GRADE

DIRECTION OF FLOW OR SLOPE

BENCHMARK:

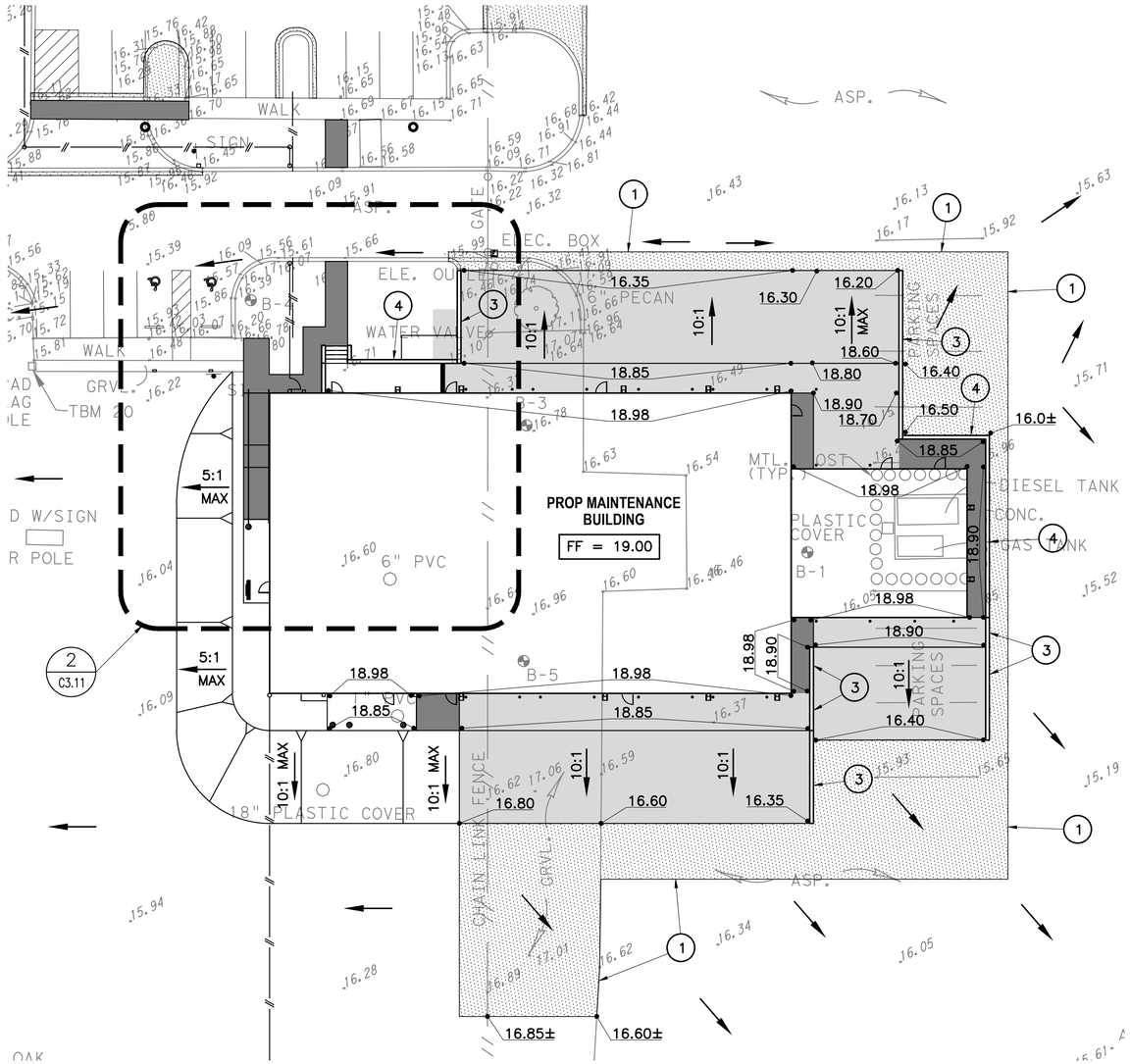
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TEMPORARY BENCHMARKS:

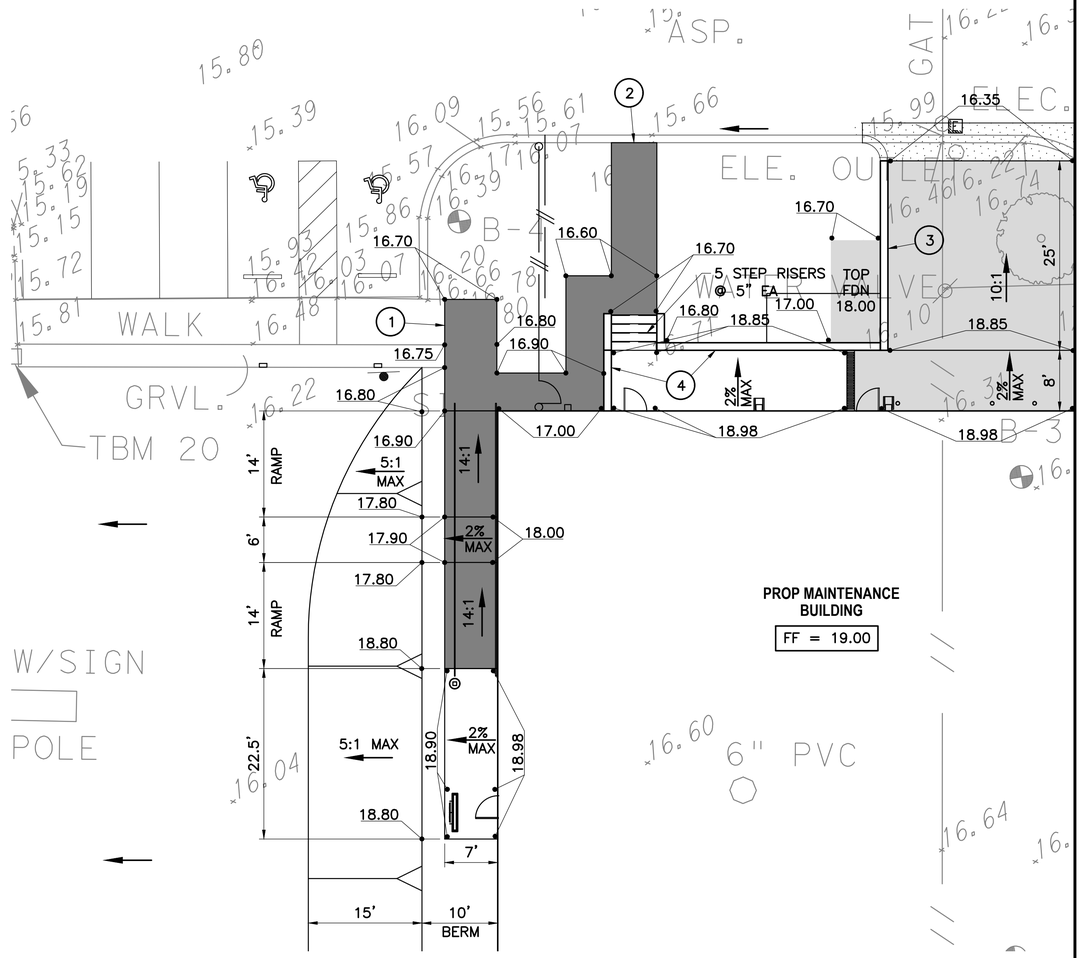
TBM "20" – CHIPPED SQUARE ON THE SOUTHWEST CORNER OF THE TXDOT FLAG POLE IN FRONT OF THE HIGHWAY DEPT. OFFICE IN ROCKPORT ON THE NORTH SIDE OF FM 3036, 90.3' NORTH OF THE CENTERLINE OF FM 3036, & 39.3' EAST OF THE CENTERLINE OF THE DRIVEWAY INTO THE TXDOT OFFICE & MAINENANCE YARD. (ARANSAS CO.) (N=13211631.633, E=2597556.428) ELEV.=16.562 FT

0' 20' 40'

SCALE IN FEET
1" = 20' (22"x34")
1" = 40' (11"x17")



GRADING PLAN - PROPOSED MAINTENANCE BUILDING — 1"=20' 1



ENLARGED GRADING PLAN — 1"=10' 2

FILE NAME: C31-3036 GRDNG PLAN – MAINT BLDG.DWG
DATE STAMP: 5/10/2019 11:52:57 AM

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Texas Department of Transportation
125 E. 11th STREET,
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PROFESSIONAL ENGINEER
5–10–2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
	5/10/2019	ISSUE FOR CONSTRUCTION

PROJECT NAME
ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER
16-18700

PROJECT LOCATION
1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER
1003526

SHEET TITLE
GRADING PLAN
MAINTENANCE BUILDING

SHEET NUMBER
C3.11

KEY NOTES (3)

1. APPROXIMATE SAW CUT LIMITS OF PAVING REMOVAL AND REPLACEMENT. NEW PAVING ELEVATION TO MATCH EXISTING.
2. MATCH EXISTING TOP OF CURB ELEVATION.

GENERAL NOTES (4)

1. ALL SPOT ELEVATIONS SHOWN ARE TOP OF PAVEMENT OR FINISH GRADE UNLESS OTHERWISE NOTED (IE; TC–TOP OF CURB, TG–TOP OF GRATE, TR–TOP OF RIM, TW–TOP OF WALL, TD–TOP OF DOCK).
2. CONTRACTOR SHALL CUT AND FILL SITE AS REQUIRED TO OBTAIN FINISHED ELEVATIONS SHOWN ON PLANS. COMPACT SELECT FILL BACKFILL MATERIAL TO 95% STANDARD PROCTOR DENSITY AS PER ASTM D–698 AND IN CONFORMANCE WITH GEOTECHNICAL REPORT REQUIREMENTS.
3. ALL SIDEWALKS, PEDESTRIAN WALKWAYS AND ACCESSIBLE ROUTES SHALL HAVE A SLOPE OF NO MORE THAN 5% IN THE DIRECTION OF TRAVEL OR LONGITUDINAL DIRECTION (EXCEPT RAMPS) AND 2% CROSS SLOPE IN THE TRANSVERSE DIRECTION.

LEGEND (5)

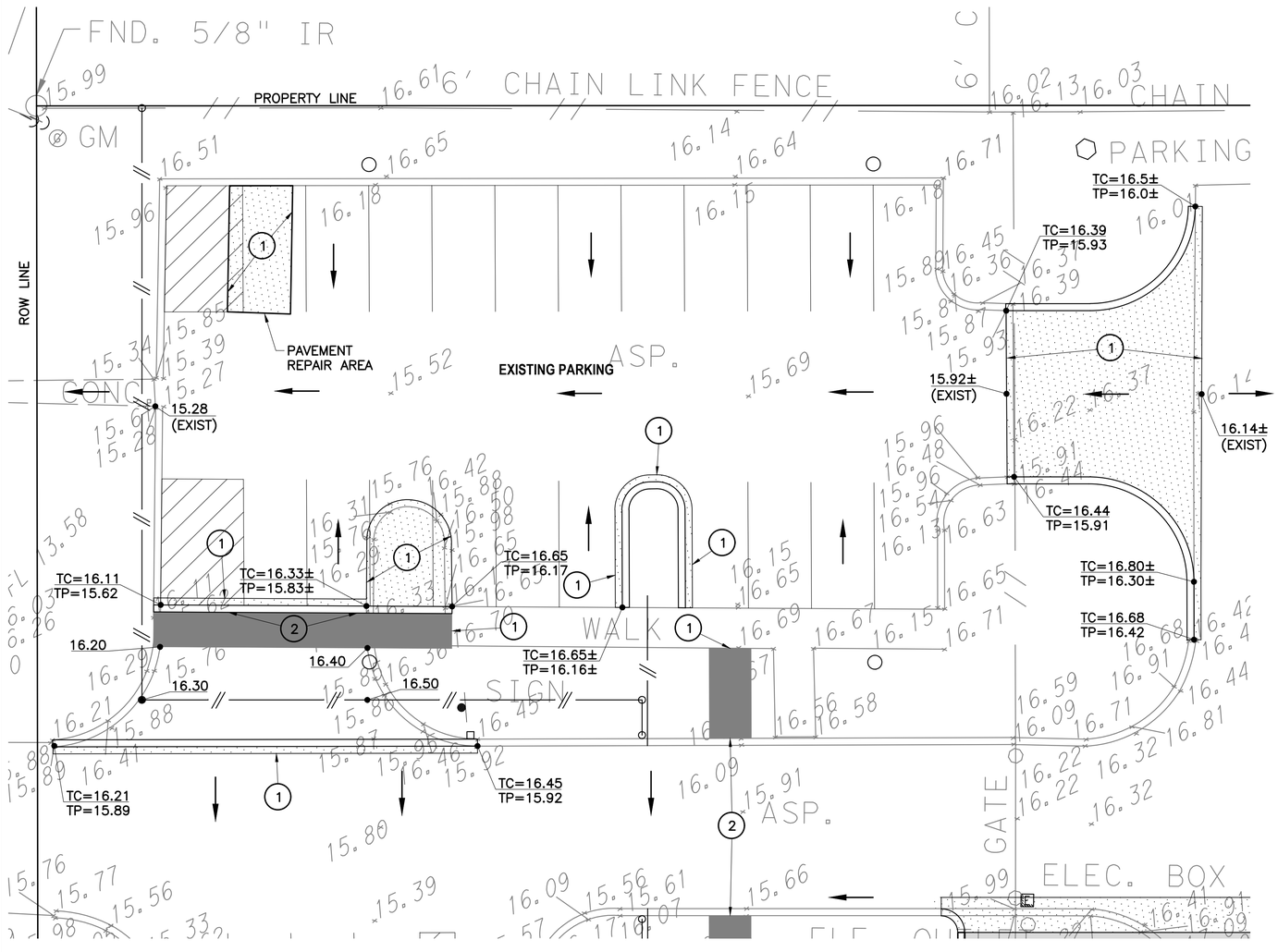
- PROPOSED CONCRETE SIDEWALK OR SLOPE PAVING
- PROPOSED CONCRETE TRAFFIC PAVING
- PROPOSED ASPHALT TRAFFIC PAVING
- PROP LT POLE FDN
- 16.50 — PROP SPOT ELEV
- × 16.61 — EXISTING SPOT GRADE
- DIRECTION OF FLOW OR SLOPE

BENCHMARK:

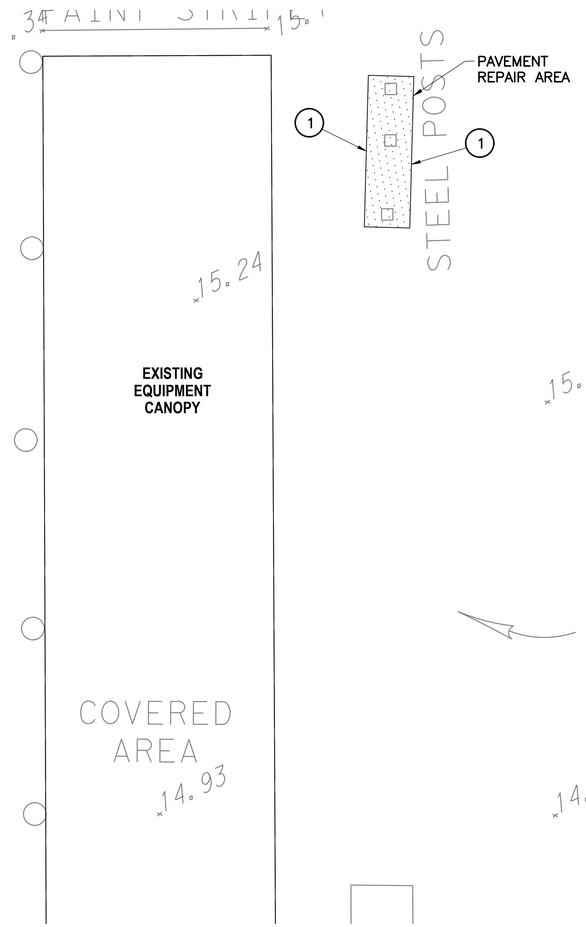
ARANSAS – BRASS DISK SET ON A STAINLESS STEEL ROD IN THE NORTHEAST CORNER OF THE TXDOT MAINTENANCE YARD IN ROCKPORT, 70.5' SOUTHWEST OF THE NORTHEAST CORNER OF THE CHAIN LINK FENCE CORNER, 72.0' NORTH OF AN OAK TREE. (ARANSAS CO.) (N=13212616.1050, E=2597931.1004)

TEMPORARY BENCHMARKS:

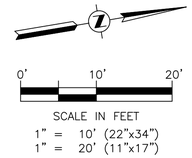
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GRADING PLAN - EXISTING PARKING LOT — 1"=10' (1)



GRADING PLAN - EQUIPMENT CANOPY AREA — 1"=10' (2)



FILE NAME: C312-2016 GRADING PLAN – PARKING LOT & EQUIP CANOPY.DWG
DATE STAMP: 5/10/2019 11:53:23 AM

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125 E. 11th STREET,
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5–10–2019

DRAWING HISTORY

№	DATE	DESCRIPTION
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PROJECT NAME
ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER
16-18700

PROJECT LOCATION
1401 FM 3036
ROCKPORT, TX
78382

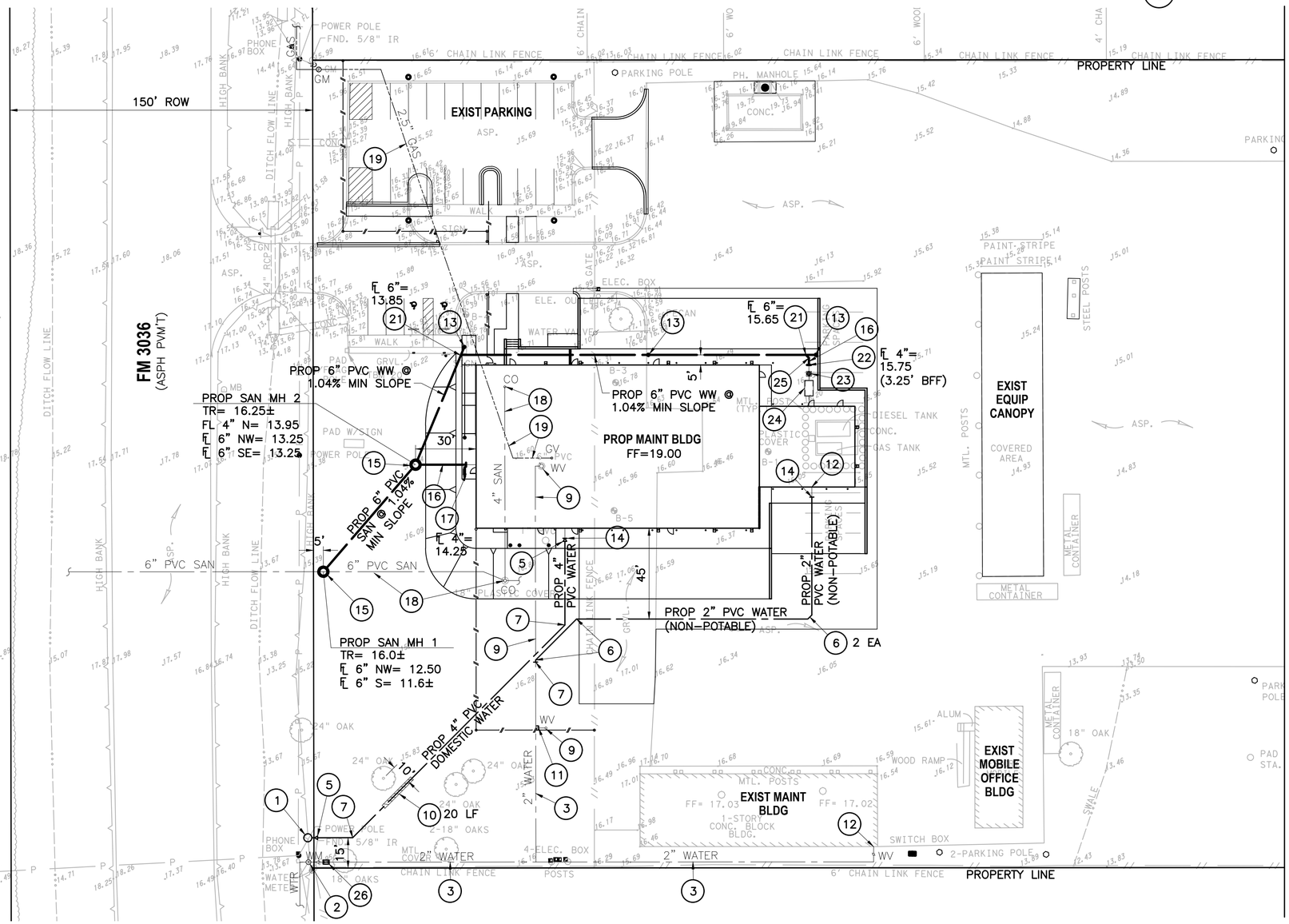
PGAL PROJECT NUMBER
1003526

SHEET TITLE
GRADING PLANS PARKING LOT & EQUIP CANOPY AREA

SHEET NUMBER
C3.12

GENERAL NOTES

1. AN IMPERVIOUS CLAY PLUG AS TRENCH BACKFILL SHALL BE INSTALLED FOR ALL PLUMBING UTILITIES (INCLUDING WATER, SANITARY, STORM, ELECTRICAL, AND COMMUNICATION) AT ALL BUILDING PERIMETERS, RE: DTL 3, SHT C7.21.
2. ALL GRAVITY SANITARY SEWER PIPE & FITTINGS SHALL BE SDR 26 PVC, TYPE PSM IN ACCORDANCE WITH ASTM D3034 UNLESS INDICATED OR SPECIFIED OTHERWISE.
3. ALL BURIED DOMESTIC WATER LINES AND SANITARY FORCE MAINS SIZE 3" AND SMALLER SHALL BE SCH 40 PVC IN ACCORDANCE WITH ASTM D1785 WITH SCH 40 PVC SOCKET, SOLVENT WELD FITTINGS IN ACCORDANCE WITH ASTM D2466.
4. ALL DOMESTIC WATER PIPE AND FITTINGS SHALL BE CERTIFIED AND LABELED FOR POTABLE WATER USE IN ACCORDANCE WITH ASTM STD 14 AND NSF STANDARD 61.
5. ALL DOMESTIC WATER LINES AND SANITARY FORCE MAINS SHALL HAVE 2.5' MINIMUM COVER UNLESS NOTED OTHERWISE.
6. ALL POTABLE WATER LINES SHALL BE PRESSURE TESTED AND DISINFECTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND TDH REQUIREMENTS.
7. REFER TO GRADING PLANS, SHT C3.11 & C3.12 FOR PROP GRADING & DRAINAGE IMPROVEMENTS.
8. REFER TO MEP PLANS FOR ALL PROPOSED GAS AND ELECTRICAL SERVICES.
9. REFER TO MEP AND ARCHITECTURAL PLANS FOR INSTALLING EXISTING FUELING SYSTEM FACILITIES.
10. REFER TO BEDDING BACKFILL DETAILS, RE: DTL 1, SHT C7.21 FOR SANITARY SEWERS, AND DTL 2, SHT C7.21 FOR WATER LINES.
11. EXISTING UTILITIES SERVING EXISTING FACILITIES TO REMAIN IN SERVICE UNTIL NEW MAINTENANCE FACILITY IS READY FOR OCCUPANCY.
12. EXISTING BURIED UTILITIES ARE SHOWN APPROXIMATE, AND BASED ON RECORD DRAWING INFORMATION AND FOUND FIELD SURVEY ITEMS.



UTILITY PLAN (SOUTH)

1"=30' (1)

MATCH LINE, RE: C4.12 FOR CONTINUATION

KEY NOTES (2)

1. PROP WATER METER (2"?) & BOX PROVIDED & INSTALLED BY CITY SIZED FOR 65 GPM PEAK DOMESTIC WATER DEMAND. CONTRACTOR TO COORDINATE SERVICE AND PAY REIMBURSABLE FEES AS REQUIRED.
2. EXIST 1.5" WATER METER & BOX TO BE RETAINED AND UTILIZED FOR NON-POTABLE TRUCK WASH RECYCLE SYSTEM SUPPLY, WATER TRUCK FILL (1 EXIST & 1 PROP), AND IRRIGATION PURPOSES ONLY.
3. EXIST WATER LINE TO REMAIN IN SERVICE AND SERVE ONLY AS NON-POTABLE SUPPLY FOR WATER TRUCK FILL, RECYCLE TRUCK WASH SYSTEM AND IRRIGATION SYSTEM.
4. PROP NON-POTABLE WATER TRUCK FILL, TRUCK WASH RECYCLE SYSTEM SUPPLY, AND IRRIGATION SUPPLY LINE.
5. PROP 4"x2" PVC REDUCER.
6. PROP 2"x45° PVC BEND.
7. PROP 4"x45° PVC BEND.
8. PROP 2" WET CONNECTION.
9. REMOVE & DISPOSE WATER LINE AND ASSOCIATED APPURTENANCES WHERE APPLICABLE.
10. PROP AUGER WATER LINE.
11. PROP RESTRAINED 2" PLUG AT EXIST TEE BRANCH.
12. PROP "NON-POTABLE WATER – DO NOT DRINK" SIGNAGE POSTED AT ALL FIXTURES SERVED BY THIS WATER SERVICE.
13. PROP 6" PVC SAN CLEAN-OUT, RE: DTL 2, SHT C7.22.
14. CONNECT WATER SERVICE LINE TO PLUMBING AT 5' FROM FACE OF BUILDING, RE: P2.01.
15. PROP 4' DIA SANITARY MANHOLE, RE: DTL 1, SHT C7.22.
16. PROP 4" PVC SAN OR WW SEWER @ 1.04% MIN SLOPE.
17. CONNECT SANITARY SEWER TO PLUMBING AT 5' FROM FACE OF BUILDING, RE: P2.01.
18. REMOVE & DISPOSE SANITARY SEWER AND ASSOCIATED APPURTENANCES WHERE APPLICABLE.
19. PROTECT, REMOVE AND/OR RELOCATE GAS LINE, RE: MEP PLANS.
20. PROP LIGHT POLE FOUNDATION, RE: DTL 1, SHT C7.11 & ELECTRICAL PLANS.
21. PROP 4"x4" PVC WYE FOR WASTEWATER LINE.
22. CONNECT SANITARY SEWER TO PLUMBING, RE: P2.01.
23. PROP SAMPLE WELL, RE: DTL 13, SHT P6.01.
24. PROP 750 GAL SAND-OIL SEPARATOR, RE: DTL 12, SHT P6.01.
25. PROP 4"x45° PVC BEND FOR WASTEWATER LINE.
26. PROP 2" VACUUM BREAKER BACKFLOW PREVENTER ASSEMBLY AND EXPANDED METAL ENCLOSURE WITH 24"Wx36"Lx6"THK CONCRETE PAD FOUNDATION. PROVIDE WATTS SERIES 800M4FR BFP OR APPROVED EQUAL WITH ULTIMATE TUFF CAGE ENCLOSURE, MODEL UTC-2 OR APPROVED EQUAL.

BENCHMARK:

ARANSAS – BRASS DISK SET ON A STAINLESS STEEL ROD IN THE NORTHEAST CORNER OF THE TXDOT MAINTENANCE YARD IN ROCKPORT, 70.5' SOUTHWEST OF THE NORTHEAST CORNER OF THE CHAIN LINK FENCE CORNER, 72.0' NORTH OF AN OAK TREE. (ARANSAS CO.) (N=13212616.1050, E=2597931.1004)

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0' 30' 60'

SCALE IN FEET
1" = 30' (22"x34")
1" = 60' (11"x17")

- EXISTING STORM SEWER
- EXISTING INLET
- PROPOSED STORM SEWER
- EXIST SAN SEWER
- EXIST SAN MANHOLE
- PROPOSED SAN MANHOLE
- PROPOSED SAN SEWER
- EXISTING WATER
- PROPOSED WATER

LEGEND (4)

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PROFESSIONAL ENGINEER
5-10-2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
	5/10/2019	ISSUE FOR CONSTRUCTION

PROJECT NAME
ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER
16-18700

PROJECT LOCATION
1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER
1003526

SHEET TITLE
UTILITY PLAN (SOUTH)

SHEET NUMBER
C4.11

FILE NAME: [411-3305 UTILITY PLAN (SOUTH).dwg]
DATE STAMP: 5/10/2019 11:53:47 AM

GENERAL NOTES (2)

1. REFER TO SHTS C1.01 & C1.02 – TOPOGRAPHIC SURVEY PREPARED BY LANDTECH DATED 5/6/2019 FOR EXISTING CONDITIONS, SURVEY BENCHMARKS, HORIZONTAL AND VERTICAL CONTROL.
2. ALL DISTURBED GRASS AND NON-PAVED AREAS NOT INDICATED FOR IMPROVEMENTS BY LANDSCAPING PLANS ARE TO BE STABILIZED AND RESTORED WITH 4" MINIMUM TOPSOIL AND HYDROMULCH SEEDING.
3. REFER TO PROJECT EARTHWORK SPECIFICATIONS AND GEOTECHNICAL REPORT FOR PREPARATION OF PAVING SUBGRADES.
4. REFER TO PROJECT SPECIFICATIONS FOR ALL MINIMUM AND ADDITIONAL REQUIREMENTS.
5. CONTRACTOR SHALL OBTAIN DRIVEWAY/CULVERT PERMIT FROM CITY OF FULTON PRIOR TO ANY WORK WITHIN THE CHAPPARAL STREET ROW.

KEY NOTES (3)

(1) PROP 18" RCP STORM CULVERT (ASTM C76, WALL B, CL IV) @ 0.3% MIN SLOPE. BED & BACKFILL PIPE (6" MIN BELOW, 9" MIN SIDES) WITH CEMENT STABILIZED SAND (CSS). PROVIDE NO LESS THAN 1.1 SACKS CEMENT PER TON DRY SAND FOR CSS.

(2) PROP 18" PRECAST SAFETY END TREATMENT (PSET), 6:1 SLOPE, TYPE II–PARALLEL DRAINAGE. RE: TXDOT STD DWG PSET–SP, DTL 1, SHT C8.00. BED & BACKFILL SAME AS FOR CULVERT PIPE.

0' 30' 60'

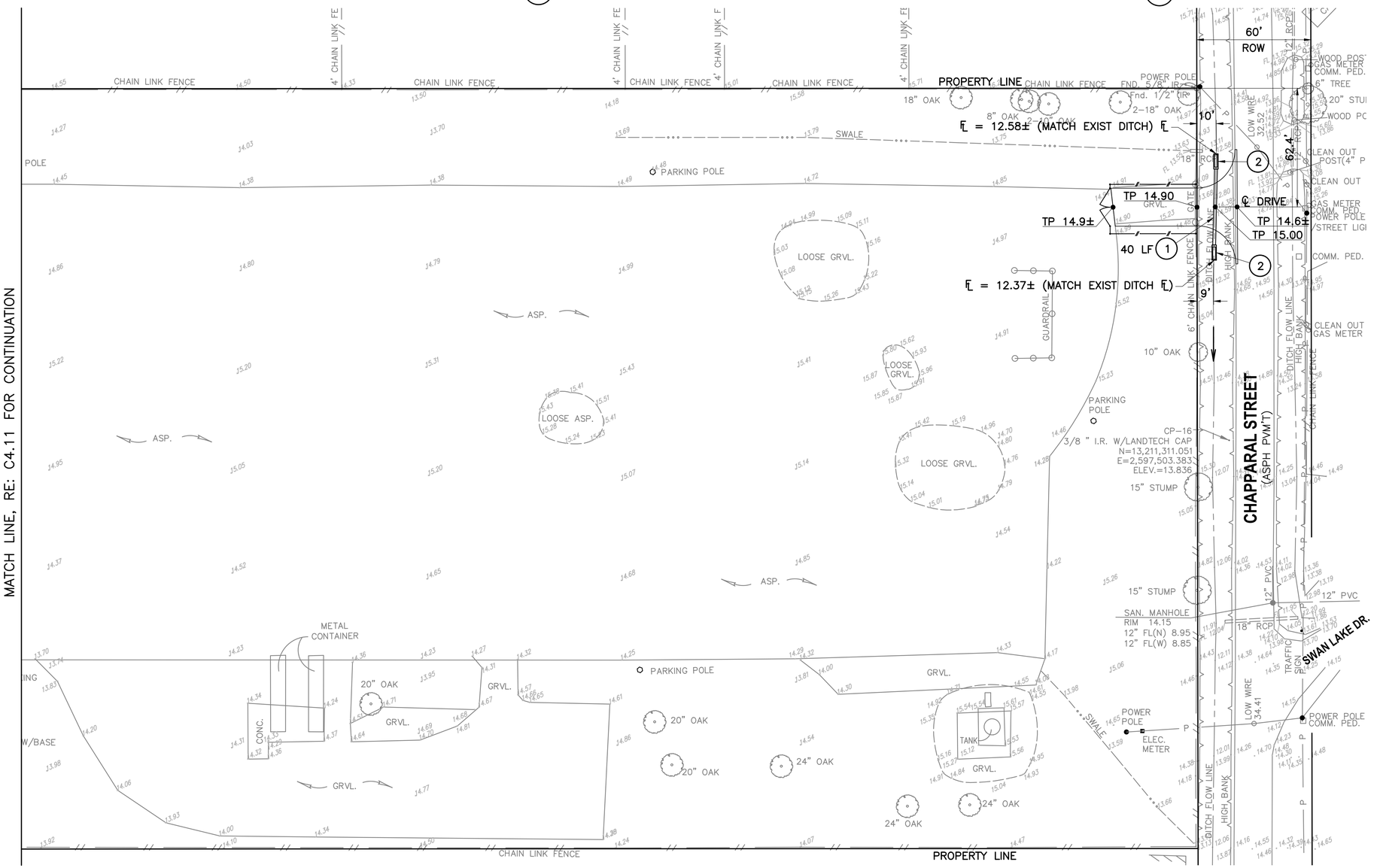
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BENCHMARK:

ARANSAS – BRASS DISK SET ON A STAINLESS STEEL ROD IN THE NORTHEAST CORNER OF THE TXDOT MAINTENANCE YARD IN ROCKPORT, 70.5' SOUTHWEST OF THE NORTHEAST CORNER OF THE CHAIN LINK FENCE CORNER, 72.0' NORTH OF AN OAK TREE. (ARANSAS CO.) (N=13212616.1050, E=2597931.1004)

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LEGEND (4)

- EXISTING STORM SEWER
- EXISTING INLET
- PROP STORM SEWER
- PROP STORM INLET OR JUNCTION BOX
- EXIST SAN SEWER
- EXIST SAN MANHOLE
- EXISTING WATER
- PROPOSED WATER
- PROP SWALE OR DITCH
- DIRECTION OF FLOW OR SLOPE
- PROPERTY LINE

UTILITY PLAN (NORTH)

1"=30' (1)

FILE NAME: C4.12-3036 UTILITY PLAN (NORTH).DWG
DATE STAMP: 5/10/2019 12:21:16 PM

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5–10–2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
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PROJECT NAME
ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER
16-18700

PROJECT LOCATION
1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER
1003526

SHEET TITLE
UTILITY PLAN (NORTH)

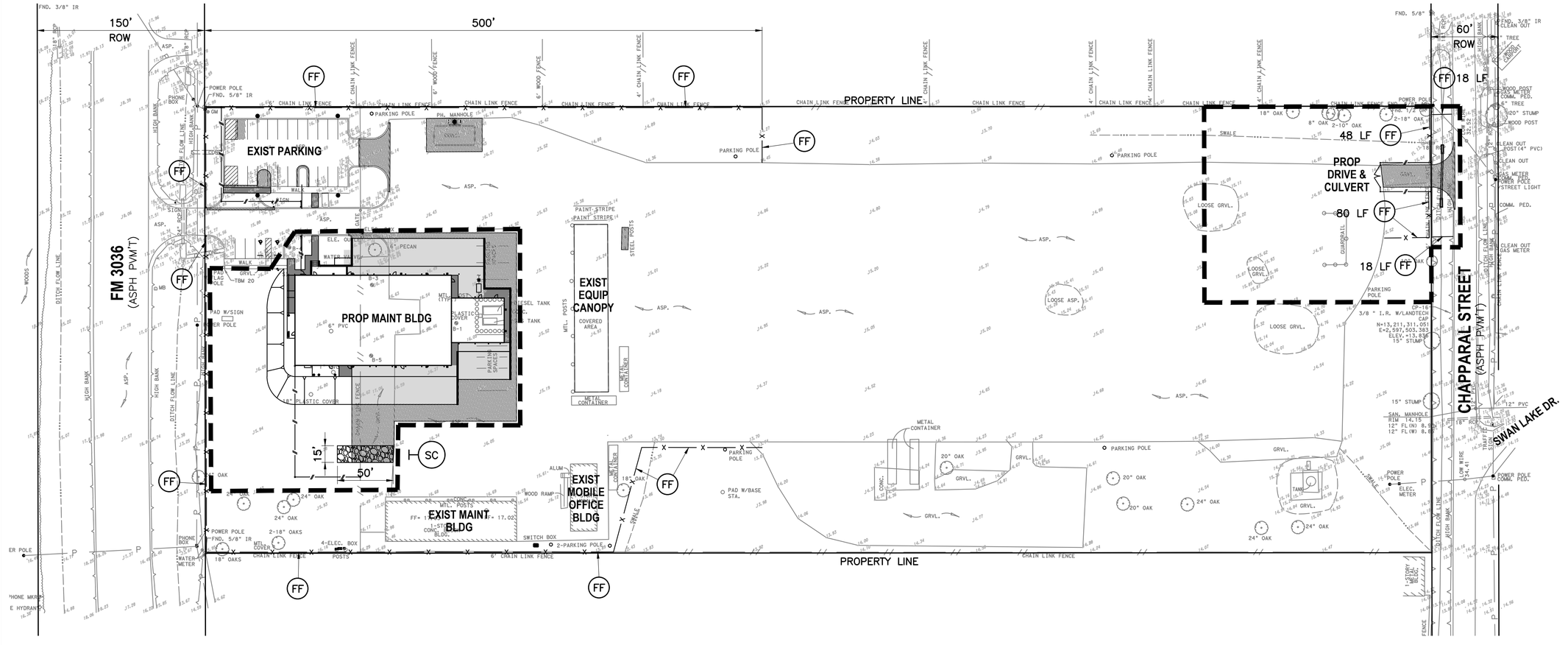
SHEET NUMBER
C4.12

1. CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND FILTER FABRIC BARRIER AT LOCATIONS SHOWN ON THE STORM WATER POLLUTION PREVENTION (SWPPP) PLANS TO KEEP SILT AND/OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM SEWER SYSTEM AND OUTFALL DITCHES THAT EVENTUALLY POLLUTE THE RECEIVING WATER SYSTEMS.
2. DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATED MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FORM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEPT BACK INTO THE EXCAVATED AREA.
3. CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FROM THE EXCAVATED AREA.
4. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT, ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.
5. CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
   - DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
   - AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
   - STRUCTURAL CONTROL MEASURES.
   - LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
6. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES, SWALES, STORM SEWERS AND CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SODDING IS DISTURBED BY EXCAVATION ON BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING OR SODDING. SLOPES 3:1 OR STEEPER SHALL BE REPLACED BY BLOCK SODDING.
7. RESTORE AND STABILIZE ALL DISTURBED SOIL AREAS AS SOON AS POSSIBLE BY INSTALLATION OF PAVING, HYDRO-MULCH SEEDING AND SODDING. MAINTAIN ALL SWPPP CONTROLS UNTIL ALL DRAINAGE AREAS ARE STABILIZED.

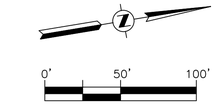
SWPPP CONSTRUCTION NOTES 4

1. INSTALL ALL SILT FENCES, STABILIZED CONSTRUCTION ACCESS, AND ANY OTHER APPLICABLE SWPPP CONTROLS AS POSSIBLE PRIOR TO ANY DEMOLITION OR EARTHWORK CONSTRUCTION.
2. HYDRO-MULCH SEED ALL DISTURBED GRASS AREAS IMMEDIATELY UPON COMPLETION OF ROUGH AND/OR FINAL GRADING.
3. HYDRO-MULCH SEED ALL DITCH/SWALE BOTTOMS AND SIDE SLOPES IMMEDIATELY UPON COMPLETION OF ROUGH GRADING.
4. REFER TO TXDOT STD SPECIFICATION ITEM 506-TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS FOR SWPPP CONTROLS UNLESS NOTED OR SPECIFIED OTHERWISE.
5. REFER TO TXDOT STD SPECIFICATION ITEM 162-SODDING FOR EROSION CONTROL AND ITEM 164-SEEDING FOR EROSION CONTROL FOR GRASS STABILIZATION.

GENERAL NOTES 3



LEGEND 2



BENCHMARK:

ARANSAS – BRASS DISK SET ON A STAINLESS STEEL ROD IN THE NORTHEAST CORNER OF THE TXDOT MAINTENANCE YARD IN ROCKPORT, 70.5' SOUTHWEST OF THE NORTHEAST CORNER OF THE CHAIN LINK FENCE CORNER, 72.0' NORTH OF AN OAK TREE. (ARANSAS CO.) (N=13212616.1050, E=2597931.1004)

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—x—FF—x—	FILTER FABRIC FENCE
SC	STABILIZED CONSTRUCTION ACCESS
- - - -	EARTHWORK STAGING AND ACTIVITIES AREA

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

1"=50' (1)

FILE NAME: C500-SWP.DWG
DATE STAMP: 5/10/2019 11:54:54 AM

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125 E. 11th STREET,
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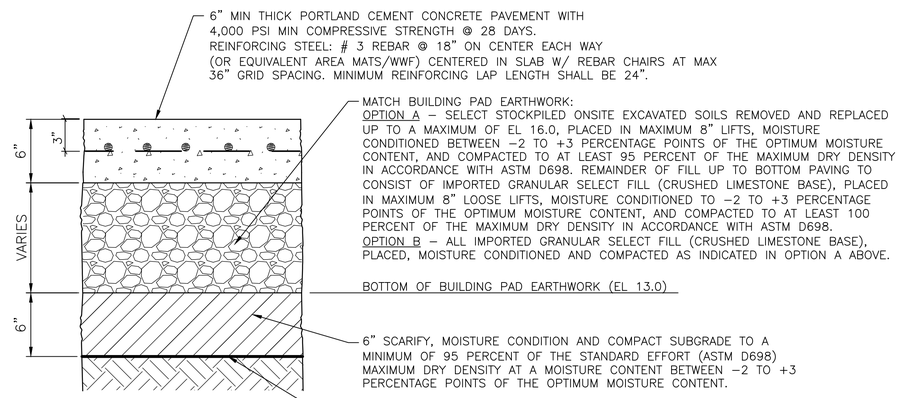
1003526

SHEET TITLE

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

SHEET NUMBER

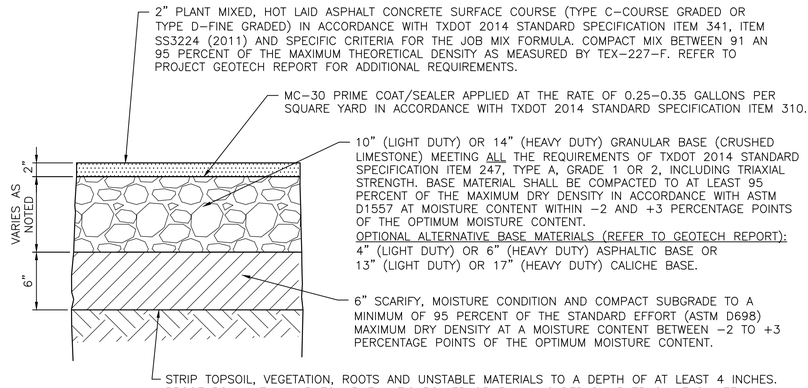
C5.00



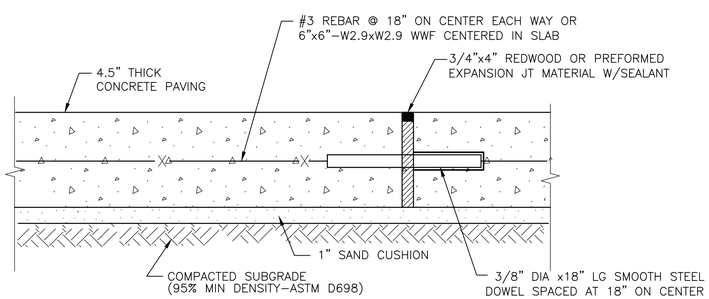
NOTES:

1. PROVIDE COMPATIBLE JOINT SEALANT AT ALL PAVEMENT JOINTS AND INTERFACES.
2. REBAR SHALL CONFORM TO ASTM A615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A82 AND ASTM A185.
3. REFER TO PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS AND EXCEPTIONS.

CONCRETE TRAFFIC PAVING — N.T.S. 1



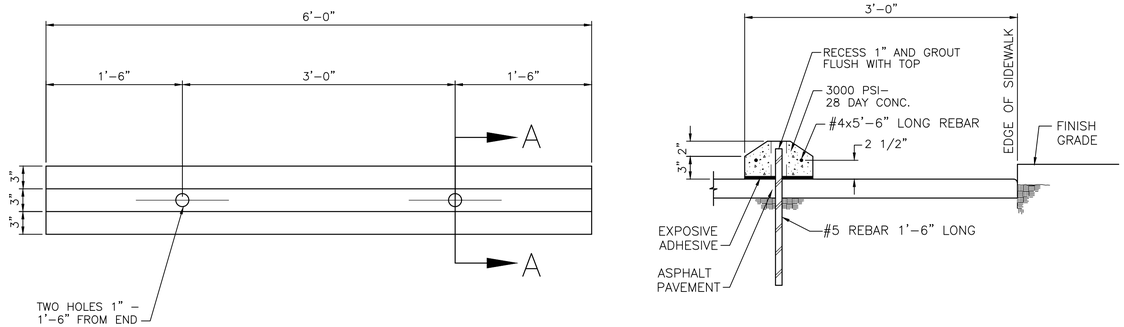
ASPHALT PAVING (LIGHT DUTY & HEAVY DUTY) — N.T.S. 2



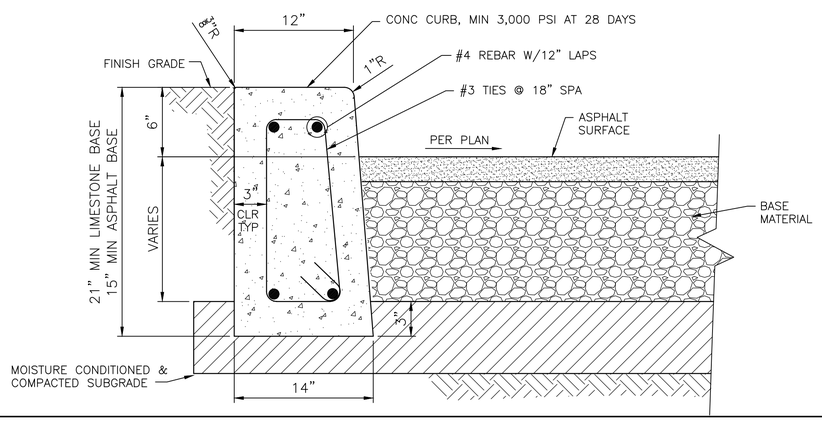
NOTES:

1. PROVIDE EXPANSION JOINTS AT 30' MAX SPACING EACH WAY.
2. EXPANSION JOINTS SHALL CONSIST OF ¾" x 4" REDWOOD OR PREFORMED EXPANSION JOINT MATERIAL WITH ⅜" DIA x 18" LG SMOOTH STEEL DOWEL WITH SLEEVE ONE SIDE PLACED AT 18" O.
3. PROVIDE ⅜" W x ⅜" D TOOLED GROOVE CONTROL JOINTS TYPICALLY SPACED AT SIDEWALK WIDTH AND 5' MAXIMUM. SEE ARCHITECTURAL DRAWINGS FOR JOINT LAYOUT.

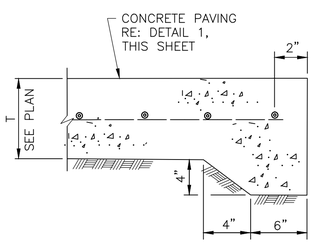
SIDEWALK PAVING AND SLOPE PAVING — N.T.S. 3



WHEEL STOP DETAIL — N.T.S. 4



CONCRETE CURB — N.T.S. 5



PAVEMENT HEADER — N.T.S. 6

FILE NAME: C700-SIDE SITE PAVING DETAILS.DWG
DATE STAMP: 5/10/2019 11:55:05 AM

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125 E. 11th STREET,
AUSTIN, TEXAS 78701-2483
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PROFESSIONAL ENGINEER
5–10–2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
	5/10/2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

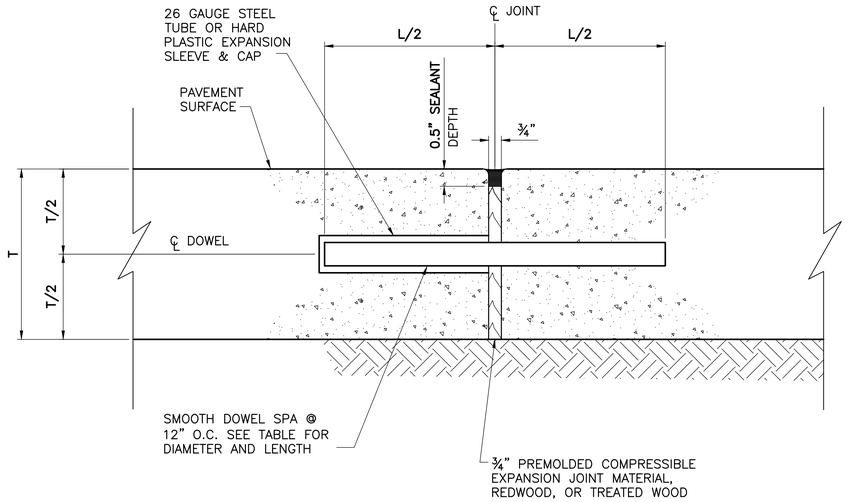
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SHEET TITLE

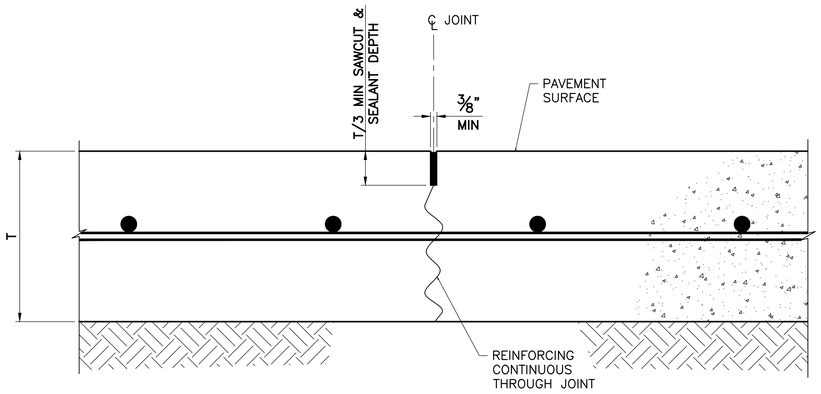
SITE PAVING DETAILS

SHEET NUMBER

C7.00



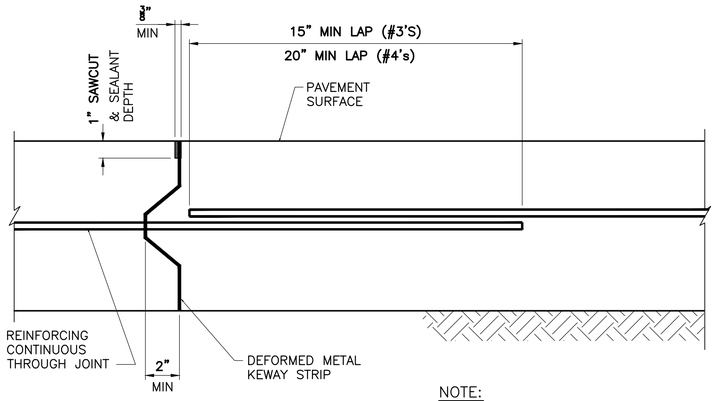
EXPANSION JOINT - DOWELED N.T.S. 1



NOTE:

SAWCUT GROOVE WITHIN 6 TO 12 HOURS OF CONCRETE PLACEMENT.

CONTRACTION JOINT - SAWED/DUMMY N.T.S. 2



NOTE:

SAWCUT GROOVE WITHIN 6 TO 12 HOURS OF CONCRETE PLACEMENT.

NOTES:

1. STEEL TO MEET ASTM STANDARD SPECIFICATIONS FOR CONCRETE REINFORCING BARS. UNITS TO BE SPACED ON 12" CENTERS.
2. CENTER DOWEL HORIZONTALLY AND PERPENDICULAR ON JOINT. PROVIDE CHAIRS OR DOWEL BASKETS AS REQUIRED TO MAINTAIN PROPER ALIGNMENT.
3. CENTER DOWEL VERTICALLY IN CONCRETE SLAB. PROVIDE AND EXTEND THICKENED CONCRETE AS NEEDED TO MAINTAIN 3" MIN COVER.

TABLE 1

PAVEMENT THICKNESS (IN)	DOWEL SIZES AND SPACINGS		
	DIAMETER (IN)	LENGTH (IN)	SPACING (IN)
6	3/4	18	12
7	7/8	18	12
8	1	18	12
9	1-1/4	18	12
10	1-1/4	18	12
11	1-1/4	18	12
12	1-1/4	18	12

CONSTRUCTION JOINT - KEYED N.T.S. 3

FILE NAME: C701-2018 CONC PVMT JOINT DETAILS.DWG
DATE STAMP: 5/10/2019 11:55:40 AM

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TXDOT PROJECT ID NUMBER

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PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

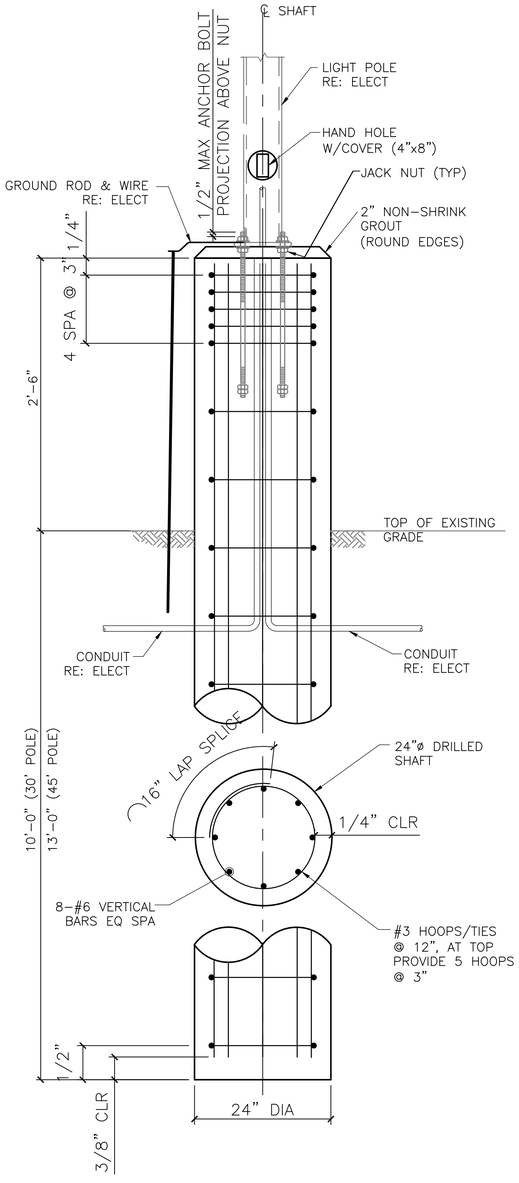
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SHEET TITLE

CONCRETE PAVEMENT JOINT DETAILS

SHEET NUMBER

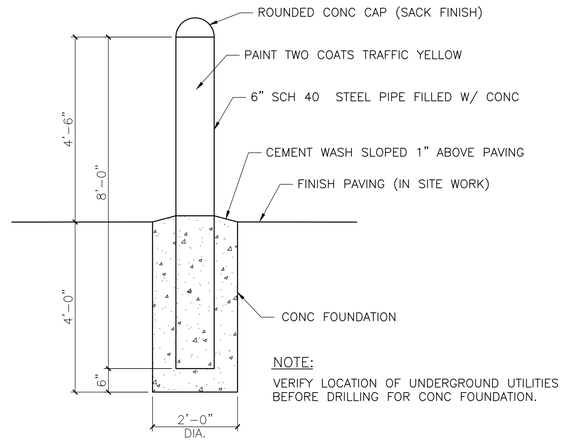
C7.01



NOTES:

1. WIND SPEED: 142 MPH (3 SECT GUST, RISK CATEGORY II) PER 2012 INTERNATIONAL BUILDING CODE.
2. REACTIONS AT NATURAL GROUND 1.9-KIPS SHEAR AND 30.0 KIP*FT MOMENT (30' POLE); 3.4 KIPS SHEAR AND 72.7 K*FT MOMENT (45' POLE).
3. RE: ELECTRICAL SITE PLAN FOR LIGHT POLE LOCATIONS.
4. FOUNDATION DESIGN BASED ON KW INDUSTRIES MODEL RTSP30-7.5-11 WITH (2) 4 SQUARE LED FIXTURES (30' POLE) AND MODEL RTSP45-11-7 WITH (2) 8 SQUARE LET FIXTURES (45' POLE).
5. ANCHOR BOLT TEMPLATE SHALL BE USED PER MANUFACTURER'S SPECIFICATIONS OR REQUIREMENTS.
6. CONFIRM ALL UNDERGROUND UTILITIES PRIOR TO AUGER FOR DRILLED SHAFT.
7. HORIZONTAL CONSTRUCTION JOINTS ARE AS APPROVED BY THE ENGINEER.

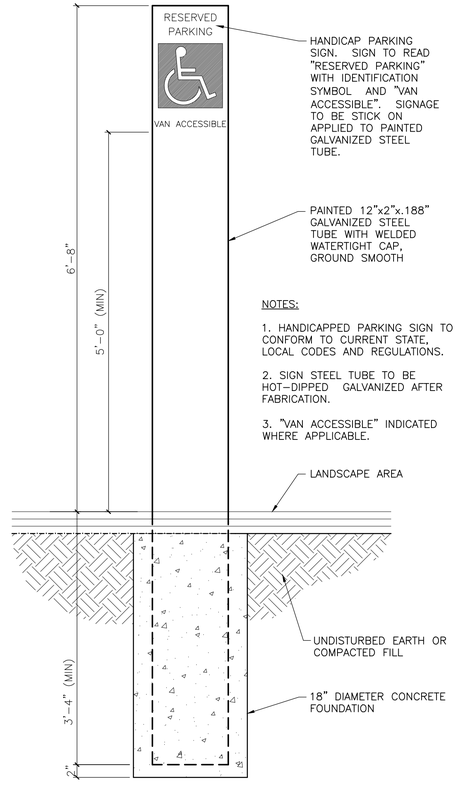
LIGHT POLE FOUNDATION | N.T.S. 1



NOTE:

VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE DRILLING FOR CONC FOUNDATION.

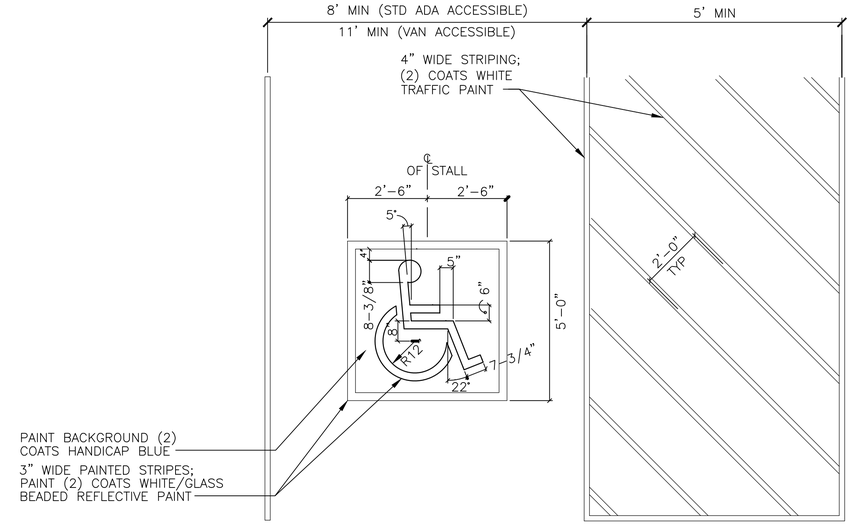
BOLLARD DETAIL | N.T.S. 2



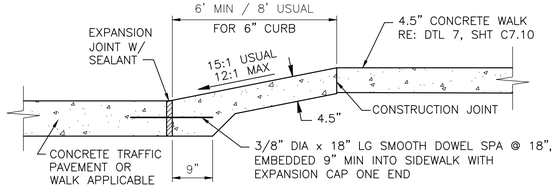
NOTES:

1. HANDICAPPED PARKING SIGN TO CONFORM TO CURRENT STATE, LOCAL CODES AND REGULATIONS.
2. SIGN STEEL TUBE TO BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
3. "VAN ACCESSIBLE" INDICATED WHERE APPLICABLE.

ADA ACCESSIBLE PARKING SIGN | N.T.S. 3



ADA RESERVED PARKING DETAIL | N.T.S. 4



SECTION A

NOTES:

1. THE FINISHED SURFACE OF WHEEL CHAIR RAMP IS TO BE SLIP RESISTANT WITH NO LESS THAN A BROOM FINISH TO PREVENT SLIPPING AND TO DIFFERENTIATE ITS TEXTURE FROM THAT OF STANDARD SIDEWALK. CURB RAMPS SHALL INCLUDE A DETECTABLE WARNING CONSISTING OF TRUNCATED DOMES.
2. RAMP LONGITUDINAL SLOPE – 12:1 (8.33%) MAX, 15;1 USUAL. RAMP HORIZONTAL SLOPE AND LANDING IN EITHER DIRECTION – 50:1 (2%) MAX.

ADA ACCESSIBLE WHEEL CHAIR RAMP DETAIL | N.T.S. 5

FILE NAME: C711-3306 SITE DETAILS.DWG
DATE STAMP: 5/10/2019 11:56:27 AM

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5-10-2019

DRAWING HISTORY

№	DATE	DESCRIPTION
	5/10/2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

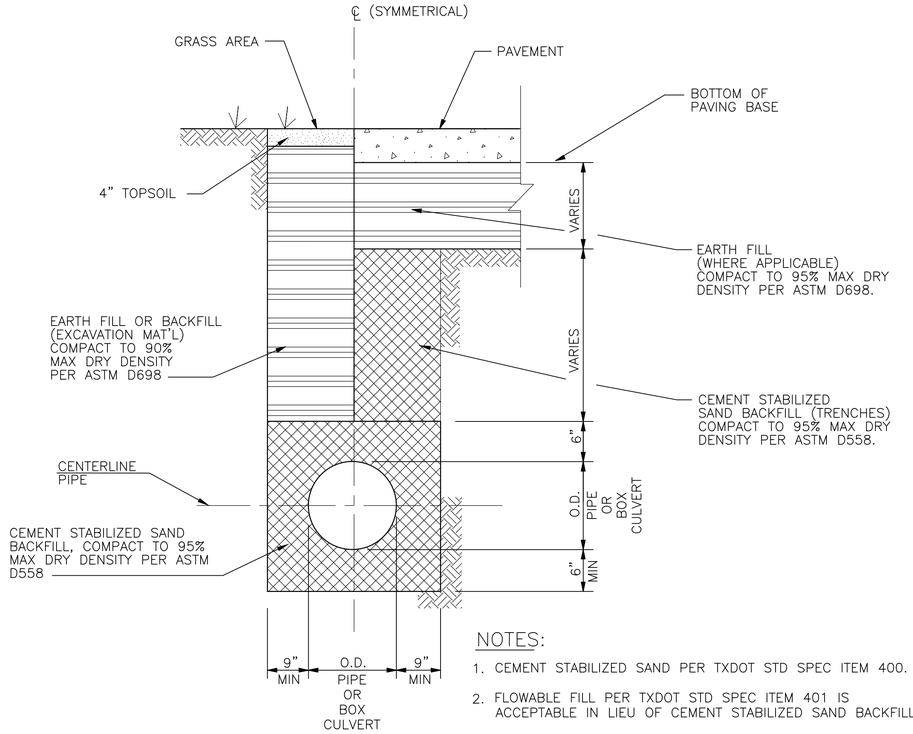
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SHEET TITLE

SITE DETAILS

SHEET NUMBER

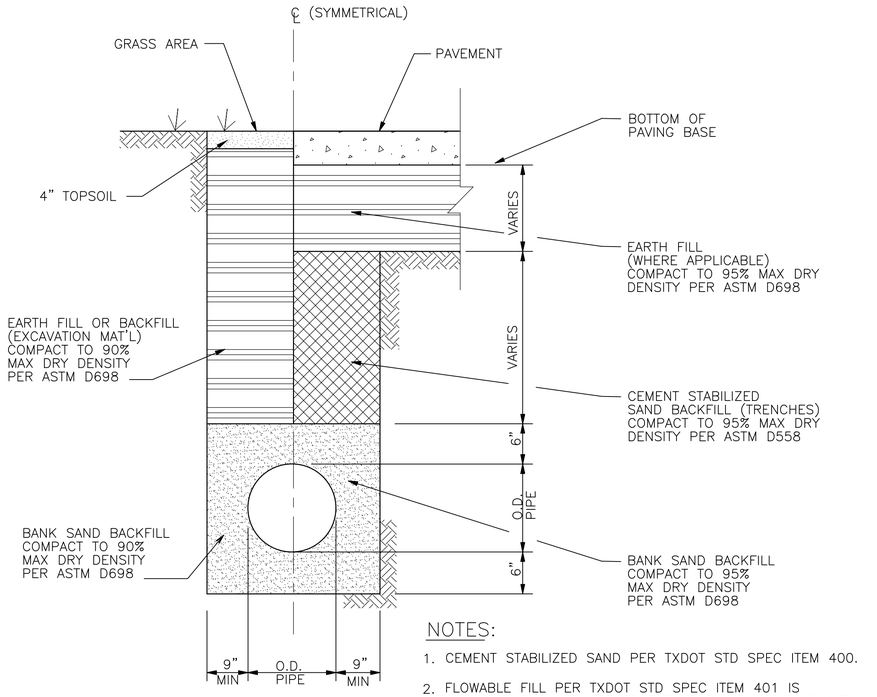
C7.11



NOTES:

1. CEMENT STABILIZED SAND PER TXDOT STD SPEC ITEM 400.
2. FLOWABLE FILL PER TXDOT STD SPEC ITEM 401 IS ACCEPTABLE IN LIEU OF CEMENT STABILIZED SAND BACKFILL.
3. PROVIDE SUMP & PUMP, UNDERDRAINS AND/OR WELL POINT DEWATERING AS REQUIRED TO MAINTAIN DRY TRENCH CONDITIONS DURING CONSTRUCTION.

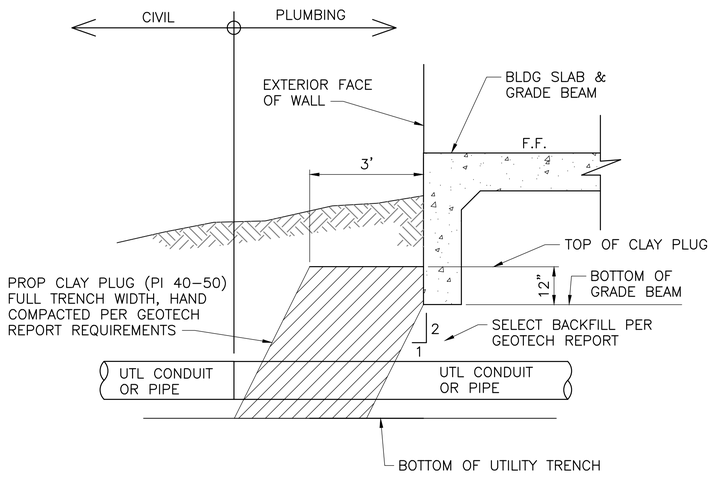
BEDDING & BACKFILL - STORM OR SANITARY SEWER (PRIVATE) N.T.S. 1



NOTES:

1. CEMENT STABILIZED SAND PER TXDOT STD SPEC ITEM 400.
2. FLOWABLE FILL PER TXDOT STD SPEC ITEM 401 IS ACCEPTABLE IN LIEU OF CEMENT STABILIZED SAND BACKFILL.
3. PROVIDE SUMP & PUMP, UNDERDRAINS AND/OR WELL POINT DEWATERING AS REQUIRED TO MAINTAIN DRY TRENCH CONDITIONS DURING CONSTRUCTION.

BEDDING & BACKFILL - WATER (PRIVATE) N.T.S. 2



SECTION - CLAY PLUG (UTILITY BACKFILL @ BUILDING) N.T.S. 3

FILE NAME: 1721-3368 SITE UTILITY DETAILS.DWG
DATE STAMP: 5/10/2019 1:57:28 PM

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ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

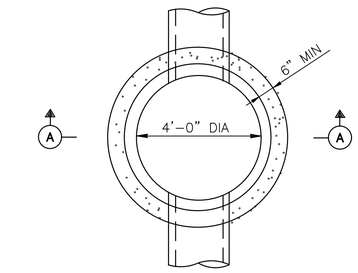
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SHEET TITLE

SITE UTILITY DETAILS

SHEET NUMBER

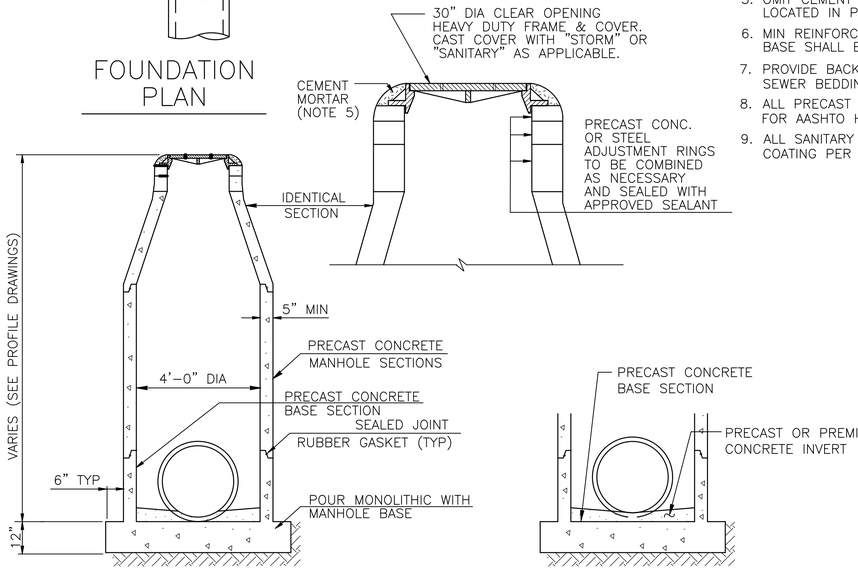
C7.21



FOUNDATION PLAN

NOTES:

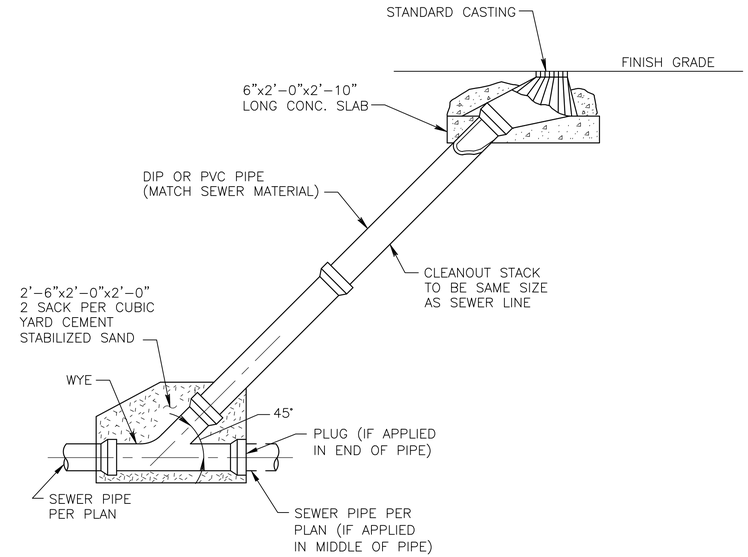
1. DEPTH OF MANHOLE DETERMINES SECTIONS REQUIRED.
2. PRECAST CONCRETE RINGS SHALL BE PROVIDED FOR A COMBINED ADJUSTMENT HEIGHT OF AT LEAST 12". THE TOTAL HEIGHT OF THE ADJUSTMENT RINGS SHALL NOT EXCEED 1'-6".
3. MANHOLE WALL THICKNESS FOR DEPTH EXCEEDING 12'-0" SHALL BE DETERMINED TO MEET LOADING CONDITIONS, MIN THICKNESS 5".
4. SEAT MANHOLE FRAME IN ELASTOMERIC SEALANT.
5. OMIT CEMENT MORTAR WHEN MANHOLE IS LOCATED IN PAVED AREAS.
6. MIN REINFORCING IN THE CONCRETE MANHOLE BASE SHALL BE # 5 @ 8" EACH WAY.
7. PROVIDE BACKFILL TO MATCH ADJACENT STORM SEWER BEDDING AND BACKFILL.
8. ALL PRECAST MANHOLES SHALL BE DESIGNED FOR AASHTO H-20 WHEEL LOADING.
9. ALL SANITARY MANHOLES SHALL HAVE INTERIOR COATING PER SPECIFICATIONS.



SECTION (A)

SANITARY BOTTOM

SANITARY MANHOLE DETAIL N.T.S. (1)



CLEAN-OUT DETAIL N.T.S. (2)

FILE NAME: C722-3308_SITE_UTILITY_DETAILS.DWG
DATE STAMP: 5/10/2019 11:38:07 AM

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TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

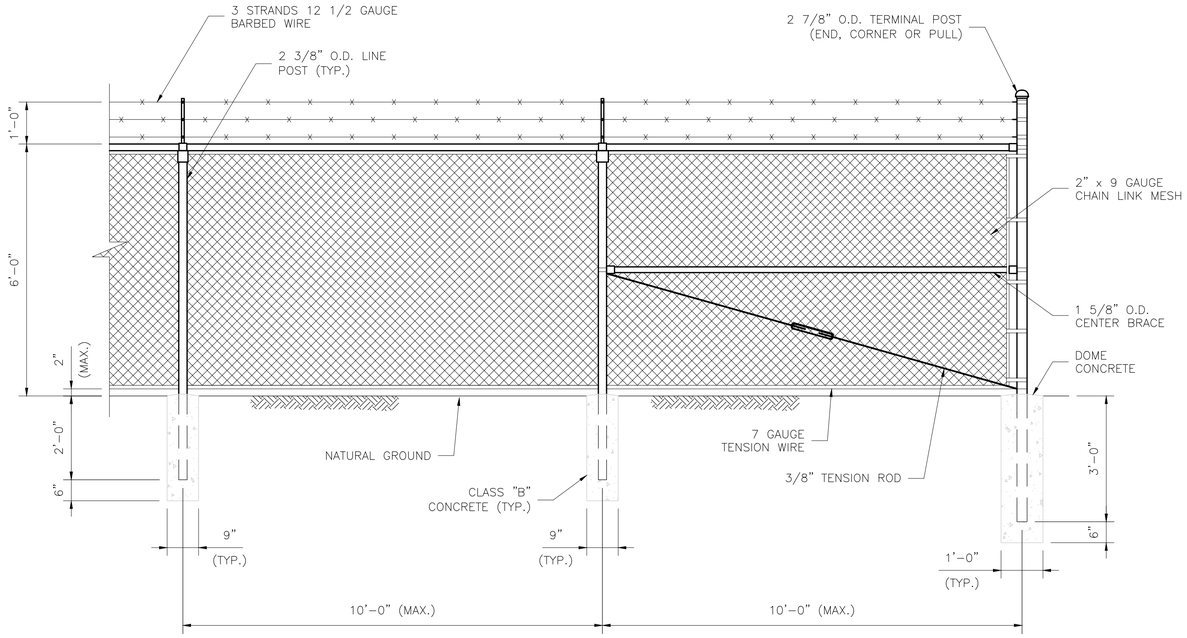
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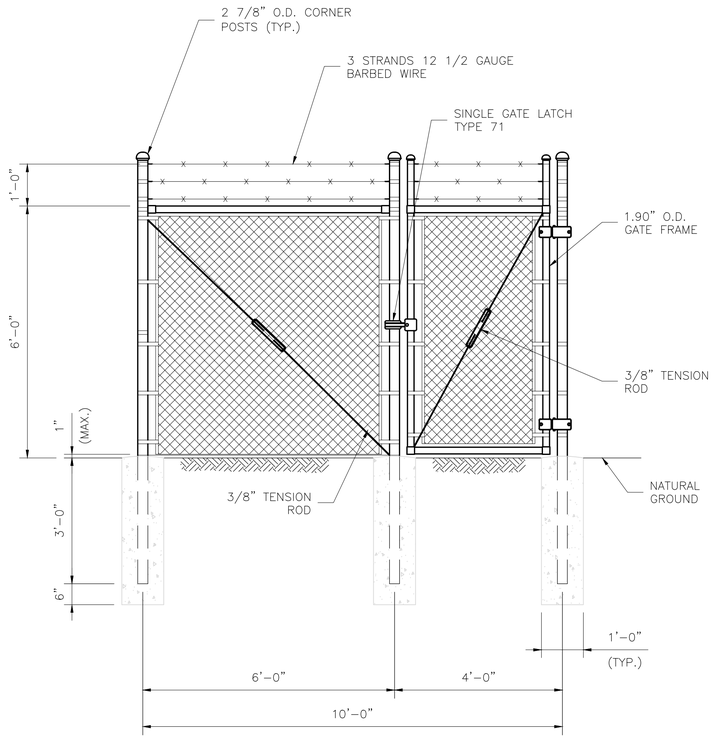
SITE UTILITY DETAILS

SHEET NUMBER

C7.22



ELEVATION WITH CORNER POST



SECURITY FENCE AND GATE
FOR ELECTRICAL PANEL BOARD

R:\1003300-1004999\1003526.00\WA5_ROCKPORT\04_DOCUMENTS\CAD\Civil\Sheets\C731-3526 Site Details - Chain Link Fencing Details.dwg

FILE NAME: C731-3526 SITE DETAILS - CHAIN LINK FENCING DETAILS.DWG
DATE STAMP: 5/10/2019 11:58:29 AM

CHAIN LINK FENCE DETAILS

N.T.S. 1

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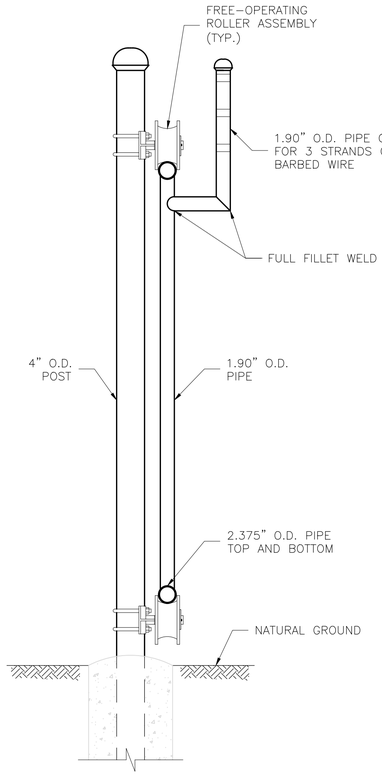
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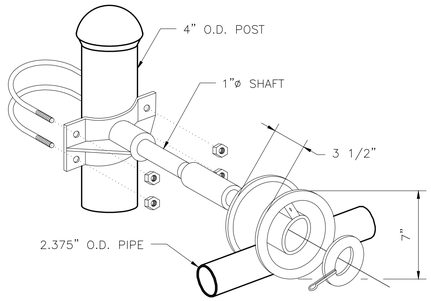
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SHEET NUMBER

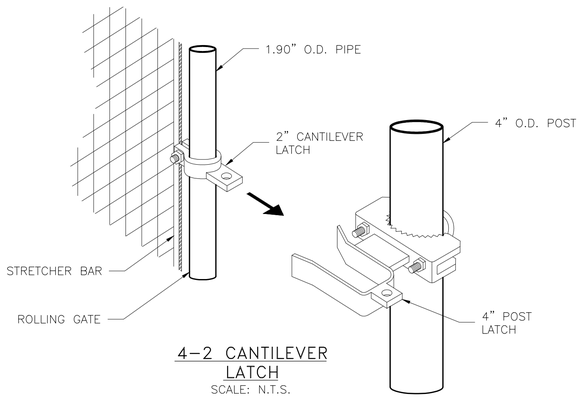
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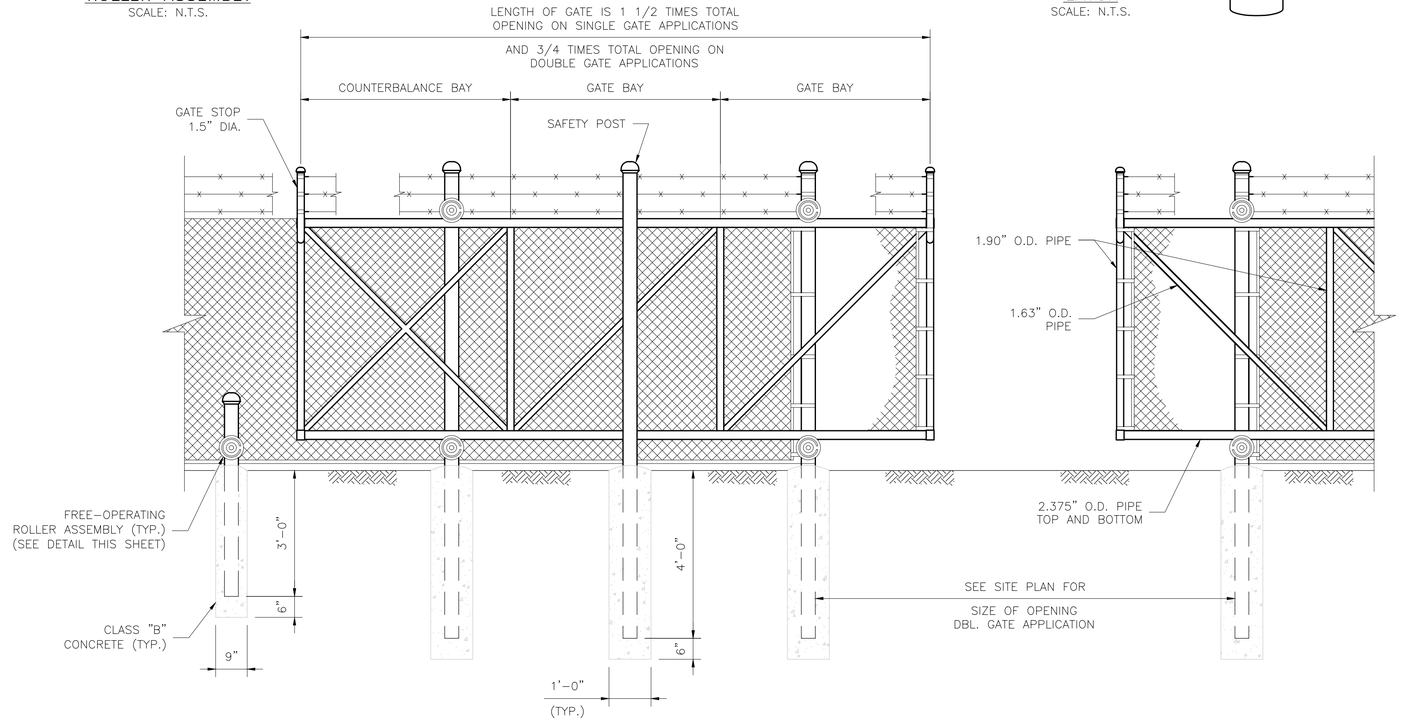
TYPICAL ROLLING GATE DETAIL
SCALE: 1" = 9"



TYPICAL FREE–OPERATING ROLLER ASSEMBLY
SCALE: N.T.S.



4–2 CANTILEVER LATCH
SCALE: N.T.S.



ELEVATION
SCALE: 1" = 1'–6"

R:\1003300–1004999\1003526.00\WA5_ROCKPORT\04_DOCUMENTS\CAD\Civil\Sheets\C732–3526 Site Details – ROLLING GATE.dwg

FILE NAME: C732-3526 SITE DETAILS - ROLLING GATE.DWG
DATE STAMP: 5/10/2019 11:58:49 AM

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TXDOT PROJECT ID NUMBER
16-18700

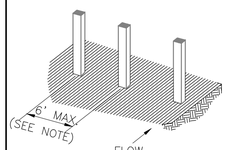
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1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER
1003526

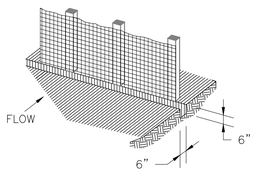
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ROLLING GATE DETAILS

SHEET NUMBER
C7.32

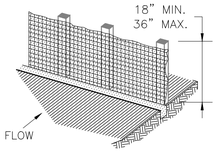
1. SET POSTS AT REQUIRED SPACING

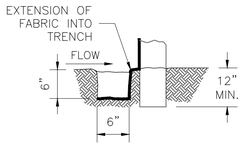


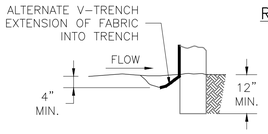
2. EXCAVATE A 6"x6" TRENCH UPSLOPE ALONG THE LINE OF POSTS AND SECURE WIRE FENCE TO POSTS.



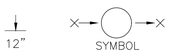
3. ATTACH FILTER FABRIC TO POSTS AND EXTEND IT INTO THE TRENCH. BACKFILL AND COMPACT THE EXCAVATED SOIL.





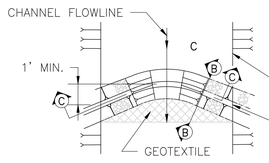


REINFORCED FILTER FABRIC BARRIER



GENERAL NOTES:

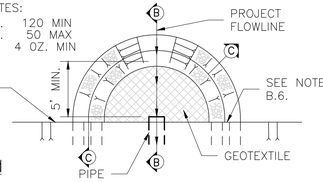
1. SECURELY FASTEN MESH FENCING TO POSTS WITH STAPLES OR TIE WIRES.
2. SECURELY FASTEN FILTER FABRIC TO MESH FENCING.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT A POST, FOLD TOGETHER, AND ATTACH TO A POST.
4. REMOVE SEDIMENT DEPOSITS WHEN SILT REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE IN DEPTH.



IN-CHANNEL FILTER DAM
PLAN

GEOTEXTILE NOTES:

MIN. AOS	SIEVE NO.	120 MIN
MAX. AOS	SIEVE NO.	50 MAX
WEIGHT	OZ/SY	4 OZ. MIN

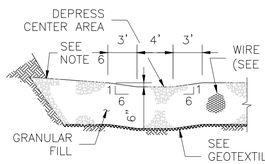


FILTER DAM AT DETENTION BASIN OUTFALL PIPE
PLAN

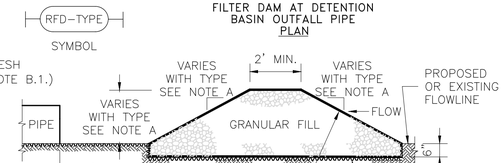
FILTER DAM

RFD-TYPE

SYMBOL



SECTION C-C



SECTION B-B

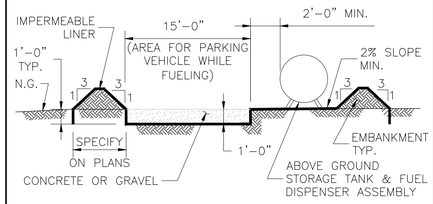
NOTE: ONLY APPLIES FOR DETENTION BASIN OUTFALL PIPE PROTECTION.

A. TYPES OF FILTER DAMS

1. TYPE 1 (NON-REINFORCED)
   a. HEIGHT - 18-24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH - 2 FEET (MINIMUM)
   c. SLOPES - 2:1 (MAXIMUM).
2. TYPE 2 (REINFORCED).
   a. HEIGHT - 18-36 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH - 2 FEET (MINIMUM).
   c. SLOPES - 2:1 (MAXIMUM).
3. TYPE 3 (REINFORCED)
   a. HEIGHT - 36-48 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH - 2 FEET (MINIMUM).
   c. SLOPES - 3:1 (MAXIMUM).
4. TYPE 4 (GABION)
   a. HEIGHT - 30 INCHES (MINIMUM). MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH - 2 FEET (MINIMUM).
5. TYPE 5. AS SHOWN ON THE PLANS.

B. CONSTRUCT FILTER DAMS ACCORDING TO THE FOLLOWING CRITERIA UNLESS SHOWN OTHERWISE ON THE PLANS.

1. TYPE 2 AND 3 FILTER DAMS: SECURE WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1 INCH DIAMETER HEXAGONAL OPENINGS.
2. PLACE GRANULAR FILL ON THE WIRE MESH TO HEIGHT AND SLOPES SHOWN ON PLANS OR AS SPECIFIED BY THE ENGINEER.
   a. 3-5 INCHES FOR ROCK FILTER DAM TYPES 1, 2 AND 4.
   b. 4-8 INCHES FOR ROCK FILTER DAM TYPE REFER TO GRANULAR FILL IN SPECIFICATION SECTION No. 02378 RIPRAP AND GRANULAR FILL.
3. FOLD WIRE MESH AT UPSTREAM SIDE OVER GRANULAR FILL AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS.
4. IN STREAMS: SECURE OR STAKE MESH TO STREAM BED PRIOR TO AGGREGATE PLACEMENT.
5. SEE HCFCD SPECIFICATION SECTION NO. 02364-FILTER DAMS.
6. EMBED ONE FOOT MINIMUM INTO SLOPE AND RAISE ONE FOOT HIGHER THAN CENTER OF DEPRESSED AREA AT SLOPE.

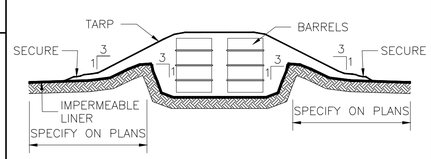


ABOVE GROUND TEMP. VEHICLE & EQUIPMENT FUELING AREA WITH TANK

TFA SYMBOL

GENERAL NOTES:

1. THE SIZE OF TANK FOUNDATION AREA DEPENDS ON THE SIZE OF ABOVE GROUND STORAGE TANK AND DISPENSER ASSEMBLY.
2. PROVIDE A MINIMUM SLOPE OF 2 % TOWARD THE SUMP PIT.
3. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS.

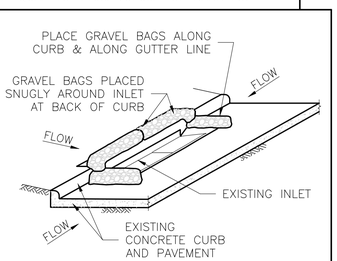


BARREL STORAGE AREA

BSA SYMBOL

GENERAL NOTES:

1. ALTERNATIVELY, STORE BARRELS IN AN ENCLOSED BUILDING OR SHED.
2. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS. 60 mil MINIMUM.
3. CONSTRUCT BERMED AREA WITH VOLUME GREATER THAN OR EQUAL TO 110% VOLUME OF BARRELS.

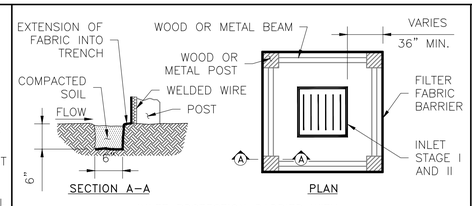


INLET PROTECTION BARRIERS FOR STAGE II INLETS

IPB-II SYMBOL

GENERAL NOTES:

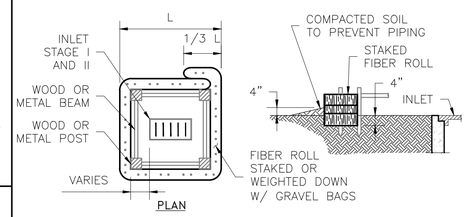
1. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE BARRIER.
2. GRAVEL BAGS SHALL NOT BLOCK THROAT OF INLET UNLESS DIRECTED BY ENGINEER.



SECTION A-A

PLAN

INLET PROTECTION BARRIER WITH REINFORCED FILTER FABRIC



PLAN

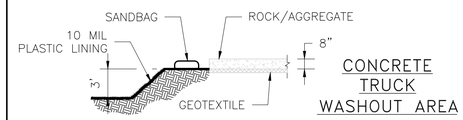
INLET PROTECTION BARRIER WITH FILTER ROLLS

GENERAL NOTES:

1. FIBER ROLLS WILL BE UTILIZED ONLY WHEN SITE CONDITIONS DO NOT PERMIT THE USE OF FILTER FABRIC BARRIER, AND AS APPROVED BY THE ENGINEER.

INLET PROTECTION BARRIERS FOR STAGE I INLETS

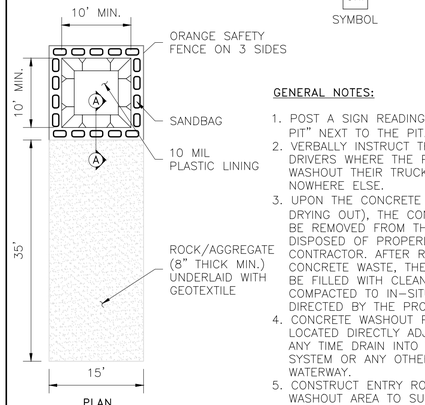
IPB SYMBOL



SECTION A-A

CONCRETE TRUCK WASHOUT AREA

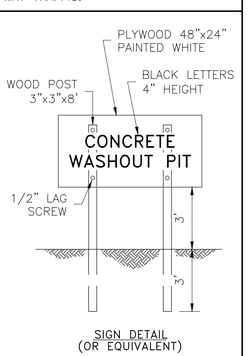
CTW SYMBOL



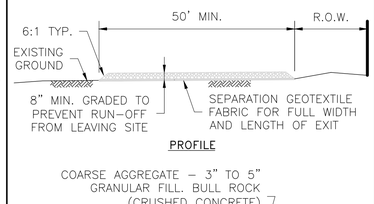
PLAN

GENERAL NOTES:

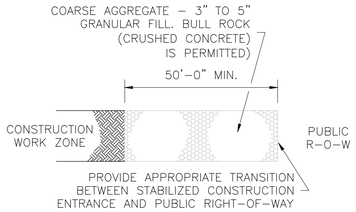
1. POST A SIGN READING "CONCRETE WASHOUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASHOUT THEIR TRUCKS IN THE PIT AND NOWHERE ELSE.
3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASHOUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
4. CONCRETE WASHOUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.



SIGN DETAIL
(OR EQUIVALENT)



PROFILE



PLAN

STABILIZED CONSTRUCTION ACCESS

SC-1 SYMBOL

GENERAL NOTES:

1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN SHOWN ON THE CONSTRUCTION DRAWINGS, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.

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CONSULTANT

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STATE OF TEXAS
WILLIAM H. PACE
59672
LICENSED
PROFESSIONAL ENGINEER
5-10-2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
	5/10/2019	ISSUE FOR CONSTRUCTION

PROJECT NAME
ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER
16-18700

PROJECT LOCATION
1401 FM 3036
ROCKPORT, TX
78382

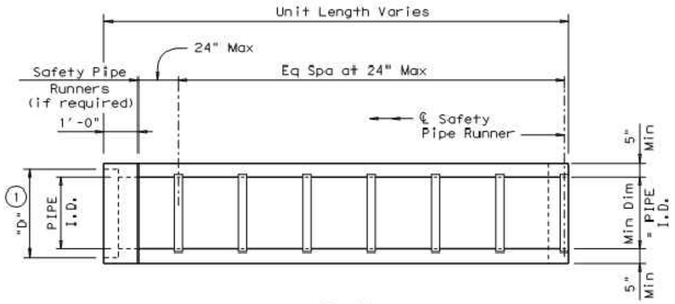
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SHEET TITLE
SWPPP DETAILS

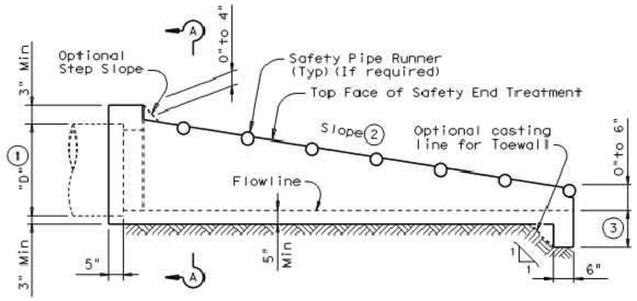
SHEET NUMBER
C7.41

FILE NAME: C741-3526 SWPPP DETAILS - SWPPP.DWG
DATE STAMP: 5/10/2019 11:28:11 AM
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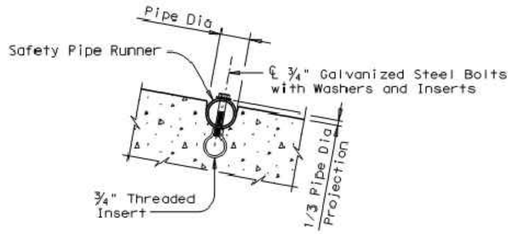
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PLAN

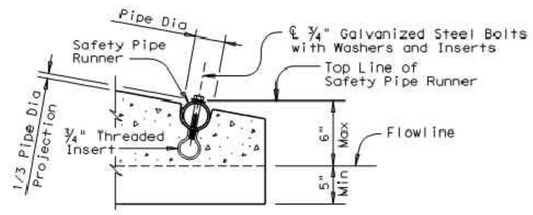


LONGITUDINAL ELEVATION

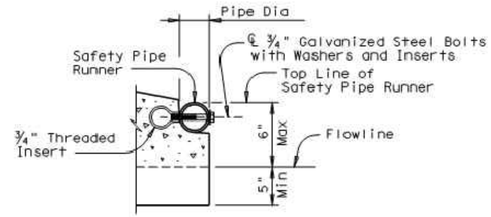


INSTALLATION DETAIL FOR SAFETY PIPE RUNNERS

(If required)



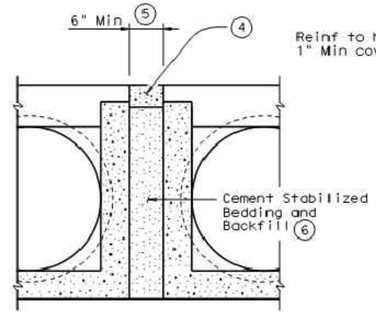
OPTION A



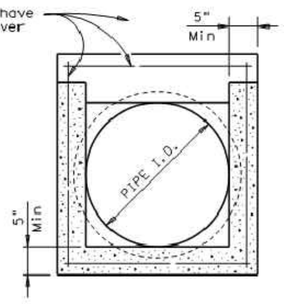
OPTION B

END DETAILS FOR INSTALLATION OF SAFETY PIPE RUNNERS

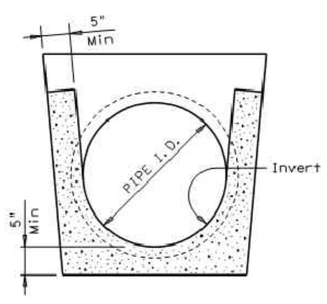
(If required)



MULTIPLE PIPE INSTALLATION

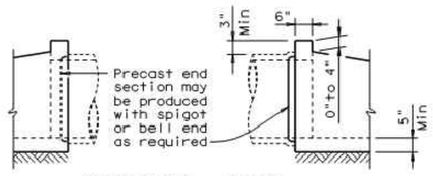


OPTION WITH SQUARE BOTTOM



OPTION WITH INVERT BOTTOM

SECTION A-A



OPTIONAL JOINT

(Showing joint between RCP and Precast Safety End Treatment)

PIPE I.D.	PIPE WALL "B" THICKNESS	"D" ①	MAXIMUM SLOPE	MINIMUM LENGTH OF UNIT	PIPE RUNNERS REQUIRED		REQUIRED PIPE RUNNER SIZES		
					SINGLE PIPE	MULTIPLE PIPE	NOMINAL DIA.	O.D.	I.D.
12"	2"	17"	6:1	4'-9"	No	Yes, for >2 pipes	3" STD	3.500"	3.068"
15"	2 ¼"	20 ½"	6:1	6'-5"	No	Yes, for >2 pipes	3" STD	3.500"	3.068"
18"	2 ½"	24"	6:1	8'-0"	No	Yes, for >2 pipes	3" STD	3.500"	3.068"
24"	3"	31"	6:1	11'-5"	No	Yes, for >2 pipes	3" STD	3.500"	3.068"
30"	3 ½"	38 ½"	6:1	14'-8"	No	Yes	4" STD	4.500"	4.026"
36"	4"	45 ½"	6:1	17'-11"	Yes	Yes	4" STD	4.500"	4.026"
42"	4 ½"	52 ½"	6:1	21'-2"	Yes	Yes	4" STD	4.500"	4.026"

① Dimension "D" is based on ASTM C-76, Class III, Wall "B" thickness. If any other wall thickness is used, dimension "D" must be adjusted accordingly.

② Slope as shown elsewhere in the plans. Slope of 6:1 or flatter is required for vehicle safety.

③ Toewall to be used only when dimension is shown elsewhere in the plans.

④ The top 4" of void between Precast End Treatments shall be filled with concrete Riprap and shall be considered subsidiary to Safety End Treatment.

⑤ Clear distance between pipes shall be adjusted to provide for the minimum distance between safety end treatments.

⑥ Cement stabilized bedding and backfill shall be in accordance with the Item, "Excavation and Backfill for Structures". Bedding and backfill shall be considered subsidiary to the Item "Safety End Treatment". When concrete riprap is specified around the safety end treatment, backfill shall be as directed by Engineer.

GENERAL NOTES:

Precast safety end treatment for reinforced concrete pipe may be used for TYPE II end treatment as specified in Item "Safety End Treatment".

When Precast Safety End Treatment is used as a Contractor's alternate to mitered RCP, Riprap will not be required unless noted otherwise on the plans.

Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.

Manufacture of this product shall conform to requirements of Item "Safety End Treatment" except as noted below :

A. Minimum reinforcing shall be #4 at 6" (Grade 40) or #4 at 9" (Grade 60) each way or 6 x 6 - W12 x W12 or 5 x 5 - W10 x W10 welded wire reinforcement (WWR).

B. Concrete for precast (steel formed) sections shall be Class "C" with a minimum compressive strength of 3600 psi.

At the option and expense of the Contractor the next larger size of Safety End Treatment may be furnished; as long as the "D" dimension cast is that of the required size of pipe.

Pipe Runners are designed for a traversing load of 10,000 Lbs at yield as recommended by Research Report 280-2F, "Safety Treatment of Roadside Parallel-Drainage Structures", Texas Transportation Institute, March 1981.

Pipe Runners shall conform to the requirements of ASTM A53 (Type E or S, Grade B), ASTM A500 (Grade B), or API 5LX52.

All steel components except reinforcing, shall be galvanized after fabrication. Galvanizing damaged during transport or construction shall be repaired in accordance with the specifications.

Texas Department of Transportation — Bridge Division Standard

PRECAST SAFETY END TREATMENT

TYPE II ~ PARALLEL DRAINAGE

PSET-SP

FILE: psetsp ss.dgn	DN: PLW	CK: KLR	DW: JTR	CK: GAF
©TxDOT February 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS 13-10 Add note for synthetic fibers.	DIST	COUNTY		SHEET NO.

DATE:
FILE:

FILE NAME: psetsp ss.dgn
DATE STAMP: 5/10/2019 11:53:13 AM

PRECAST SAFETY END TREATMENT TYPE II - PARALLEL DRAINAGE

N.T.S. 1

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Texas Department of Transportation

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STATE OF TEXAS
WILLIAM H. PACE
59672
LICENSED
PROFESSIONAL ENGINEER
5-10-2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
	5/10/2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

SHEET TITLE

TXDOT STANDARD DWG DRAINAGE

SHEET NUMBER

C8.00

STRUCTURAL GENERAL NOTES

I. COORDINATION

A. It is the responsibility of the General Contractor to obtain all Contract Documents and Addenda and to submit such documents to all subcontractors and material suppliers prior to the submittal of shop drawings, fabrication of any structural members, and construction.

B. The General Contractor shall compare the Architectural, Structural Mechanical, Electrical, Plumbing, and other series drawings and report any discrepancies between each set of drawings and within each set of drawings prior to fabrication and installation of any structural members.

C. Only larger sleeve openings and framed openings in structural framing component members are indicated on the Structural Drawings. However, all sleeves, inserts and openings, including frames and/or sleeves shall be provided for passage, provision and/or incorporation of the work of the contract, including but not limited to Mechanical, Electrical and Plumbing work. This work shall include the coordination of sizes, alignment, dimensions, position, locations, elevations and grades as required to serve the intended purpose. Openings not indicated on the Structural Drawings, but required as noted above, shall be submitted to the Engineer for review.

D. Refer to Architectural, Mechanical, Electrical and Plumbing drawings for floor elevations, slopes, drains and location of depressed and elevated floor areas.

E. Compatibility of the structure and provisions for building equipment supported on or from structural components shall be verified as to size, dimensions, clearances, accessibility, weights and reaction with the equipment for which the structure has been designed prior to submission of shop drawings and data for each piece of equipment and for structural components. Differences shall be noted on the submittals.

F. The details designated as "Typical Details" apply generally to the Drawings in all areas where conditions are similar to those described in the details. The details apply whether cut on plans or not.

G. All structural elements of the project have been designed by the Structural Engineer to resist the required code vertical and lateral forces that could occur in the final completed structure only. It is the responsibility of the Contractor to provide all required bracing during construction to maintain the stability and safety of all structural elements during the construction process until the lateral–load resisting system or stability–providing system is completely installed and the structure is completely tied together.

H. Lateral–Force Resisting System: The ability of the structural frame to resist lateral loads and provide stability under gravity loads derives from the complete installation of the lateral–force resisting systems and diaphragms described below. It shall be the Contractor's responsibility to provide all temporary bracing required to maintain the stability and safety of all elements during the construction process until all of these elements are completely installed and all designated concrete elements (if any) have reach a minimum of 75% of their design strength. The temporary supports shall not result in the over stress or damage of the elements to be braced nor any elements used as brace supports. The required structural elements are:

1. Concrete Panels
   a. Lateral–force Resisting System: Concrete Panels in each direction that are attached to the building.
   b. Diaphragm
      i. At the roof a metal deck diaphragm that is completely attached to all roof members according to specifications and that creates a continuous element linking the lateral–load resisting system to all other columns.

I. The Contract Structural Drawings and Specifications represent the finished structure, and except where specifically shown, do not indicate the means or methods of construction. The Contractor and their Sub–Contractors shall supervise and direct the Work and shall be solely responsible for all construction means, methods, procedures, techniques, sequences and safety measures including, but not limited to, adherence to all OSHA guidelines. The Engineer shall not have control of, and shall not be responsible for, construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work, for the acts or omissions of the Contractor, Subcontractors, or any other person performing any of the Work, or for the failureof any of these persons to carry out the Work in accordance with the Contract Documents.

J. Where conflict exists among the various parts of the structural contract documents, structural drawings, general notes, and specifications, the strictest requirements, as indicated by the Engineer, shall govern.

K. Shop drawings shall be prepared for all structural items shown in the drawings. Structural Engineers drawings shall not be used as shop drawings unless approved by the Structural Engineer.

L. Periodic site observation by field representatives of Garza + McLain Structural Engineers, Inc. is solely for the purpose of determining if the Work is proceeding in accordance with the Structural Contract Documents. This limited site observation is not intended to be a check of the quality or quantity of the Work, but rather a periodic check in an effort to inform the Owner against defects and deficiencies in the work of the Contractor.

II. SUBSTITUTIONS

All requests for substitutions of materials or details shown in the contract documents shall be submitted for approval during the bidding period. Once bids are accepted, proposed substitutions will be considered only when they are officially submitted with an identified savings to be deducted from the contract and/or schedule impact and the material or product has been approved by the International Code Council Evaluation Service (ICCES) and the ICCES report are included in the request. Submittals not satisfying the above criteria will not be considered.

III. MAINTENANCE STATEMENT

A. All structures require periodic maintenance to extend lifespan and to insure structural integrity from exposure to the environment. A planned program of maintenance shall be established by the building owner. This program shall include such items as but not limited to painting of structural steel, protective coating for concrete, sealants, caulked joints, expansion joints, control joints, spalls and cracks in concrete, pressure washing of exposed structural elements exposed to a salt environment or other harsh chemicals and maintaining positive drainage away from the edge of the building.

B. Site Drainage: It is recommended that the site drainage be well developed surface water should be directed away from the foundation soils. (Use a minimum slope of 5% within 10 feet of the foundation). no ponding of surface water shall be allowed near the structure during or after completion of the construction & the landscaping. The Contractor shall advise the owner of the site drainage requirements. The Engineer is not liable for foundation issues if the site is not maintained.

IV. CODES

A. The General Building Code used as the basis for the structural design is as follows:
1. International Building Code, 2015 Edition.
2. IBC 2006 with Texas revisions for wind storm.

B. Structural Concrete: Building Code Requirements for Reinforced Concrete, American Concrete Institute, ACI 318.

C. Structural Steel: Manual of Steel Construction, American Institute of Steel Construction, 14th Edition.

D. Light Gauge Steel: Specification for the design of cold formed steel structural members, American Iron and Steel Institute, latest edition.

V. DESIGN LOADS

A. Dead Loads include the self weight of the structural elements and the following superimposed loads:

1. Ceiling and Mechanical	10 psf
2. Roofing and rigid insulation	5 psf

B. Live Loads

OCCUPANCY OR USE	UNIFORM (psf)	CONCENTRATED (lbs.)
1. Floor	100	
2. Roof (unreduced)	20	N/A

C. Wind loads
Wind lateral load on structural frame is based on ASCE 7 using the following:

1. Basic Wind Speed (3 sec)	129 mph (ASD); (147 mph, ult.)
2. Exposure	C
3. Importance Factor	1.0
4. Gross Wind Uplift Pressures on Roof Components and Cladding are as follows:	

Roof Area	10 Sqft Trib Area	100 Sqft Trib Area
a. Typical Building ("a"= 4'–0" ft)		
Interior (Field)	38.8 psf	35.5 psf
Perimeter Band ("a" region)	65.1 psf	42.1 psf
Corners ("a"x"a" region)	91.4 psf	42.1 psf

1. Gross Wind Pressures on Wall Components and Cladding are as follows:

Wall Area	10 Sqft Trib Area	100 Sqft Trib Area
a. Typical Building ("a"= 4'–0" ft)		
Interior (Field)	38.5 psf	34.0 psf
Corners ("a" region)	47.4 psf	37 psf

2. Refer to ASCE 7 for the definition of "a".

D. Handrails and Guardrails: Handrails and guardrails shall be designed for 50 pound/ft applied horizontally at right angles to the top rail as well as a 200 pound concentrated load applied in any direction at any point along the top rail. The railing shall have attachment devices to adequately anchor to the supporting structure. Intermediate rails (all except handrail), balusters, and panel fillers shall be designed to with stand a horizontally applied normal load of 50 lbs on an area not to exceed one square foot, including openings and space in between rails.

E. Texas Architectural Barrier Act Standard. The structural strength of grab bars, tub and shower seats, fasteners, and mounting devices shall meet the following specification:

1. Bending stress in a grab bar or seat induced by the maximum bending moment from the application of 250 lbf shall be less than the allowable stress for the material of the grab bar or seat.
2. Shear stress induced in a grab bar or seat by the application of 250 lbf shall be less than the allowable shear stress for the material of the grab bar or seat. If the connection between the grab bar or seat and its mounting bracket or other support is considered to be fully restrained, then direct and torsional shear stresses shall be totaled for the combined shear stress, which shall not exceed the allowable shear stress.
3. Shear force induced in a fastener or mounting device from the application of 250 lbf shall be less than the allowable lateral load of either the fastener or the mounting Device or the supporting structure, whichever is the smaller allowable load.
4. Tensile force induced by a fastener by a direct tension force of 250 lbf plus the maximum moment from the application of 250 lbf shall be less than the allowable withdrawal load between the fastener and the supporting structure.
5. Grab bars shall not rotate within their fittings.

VI. SUBMITTALS

A. Shop drawings shall be prepared for all structural items and submitted for review by the Engineer. Contract Drawings shall not be reproduced and used as shop drawings. All items deviating from the Contract Drawings or from previously submitted shop drawings shall be clouded.

B. The contractor shall review shop drawings for compliance with the contract documents and shall certify that he has done so by a stamp noting that the drawings have been "Approved" and which bears the signature (or initials) of an authorized representative o the contractor and the date. Submittals which do not reflect the contractor's approval, signature and date will be returned without review.

C. The contractor shall be responsible for delays caused by rejection of inadequate shop drawings.

D. Where review and return of shop drawings is required or requested, the engineer will review each submittal and, where possible, return within two weeks of receipt.

E. Corrections or comments on shop drawings or manufacturer's data sheets do not relieve the contractor from compliance with requirements of the plans and specifications. The engineer's review is for general conformance with the requirements of the contract documents. The contractor is responsible for confirming and correcting all quantities and dimensions, selecting fabrication processes and techniques of construction, and coordinating his work with that of all other contractors.

F. General Contractor shall submit four maximum bond copies. Engineer will review, comment and retain one copy of each submittal and transfer comments onto the remaining bond copies for distribution to architect, owner, and contractor. Additional copies submitted will not have comments transferred to them. General Contractor will be responsible for providing and distributing Engineers comments to their subcontractors.

G. Submittal List and Schedule – The General Contractor shall prepare a detailed list and schedule of all submittal items to be sent to the Structural Engineer prior to the start of construction. This list shall be updated and revised and kept current as the job progresses. The submittal list shall be organized as shown below:

1. Shop Drawings
2. Manufacturers literature for products, assemblies and hardware
3. Products, assemblies and hardware
4. Product certifications, mill certificates and affidavits

H. Shop Drawings

1. The General Contractor shall submit for Engineer review shop drawings for the following items:
   a. Concrete reinforcing Steel
   b. Penetrations in Grade Beams
   c. Embedded items (Plates, Angles, Bolts, etc) or items attached to the structural frame for building cladding attachment or for attachment of other items. (#)
   d. Concrete Mix Designs (30 Tests)
   e. Structural Steel Anchor bolts
   f. Vapor retarder and tape
   g. Curing compound
   h. Structural Steel
   i. Steel Joists
   j. Roof metal deck
   k. Miscellaneous steel
   l. Masonry net compressive strength & Grout mix design
   m. Tiltwall Panel books (*,#)

Items marked (*) shall be designed by an engineer and drawings shall be sealed by a registered engineer in the state where the project is located. Items marked (#) shall be submitted to Engineer for Owner's record only and will not have the Engineer's shop drawing stamp affixed.

2. The omission from the shop drawings of any material required by the Contract Documents to be furnished shall not relieve the Contractor of the responsibility of furnishing and installing such materials, regardless of whether the shop drawings have been reviewed and approved.

I. Manufacturers Literature – Submit two copies of manufacturer's literature for all materials and products used in the construction of the project.

J. Reproduction – The use of reproductions of these contract documents by an contractor, subcontractor, erector, fabricator, or material supplier in lieu of preparation of shop drawings signifies his acceptance of all information shown hereon as correct, and obligates himself to any job expense, real or implied, arising due to any errors that may occur hereon.

K. Letters–
1. Concrete Reinforcement Contractor shall provide a letter stating that the concrete reinforcing was installed per the contract documents.
2. C.C. to provide a letter to the Engineer stating all structural elements have been installed per the structural contract documents, shop drawings and supplemental sketches without deviation.
3. Structural Steel Erector shall provide a letter stating that all structural steel members were installed per eh structural drawings.

VII. BUILDING PAD PREPARATION

A. Prepared the building pad per the project Geotechnical report Earth Engineering Report No. 92135259.

B. For moisture sensitive floor coverings, provide a moisture retarder that conforms to ASTM E1745, Class A, with a maximum water vapor permeance of 0.01 perms per ASTM E96. Moisture retarder shall be no less than 15 mills thick.

VIII. FOOTINGS

A. Footing design is based on the following design criteria:
   a. Allowable net bearing: 1500 total bearing 2'–6" below finish grade.

B. Footing design is in accordance with the recommendations in the following geotechnical report:
   a. Geotechnical engineer: Terracon
   b. Date of report: January 16, 2018
   c. Report number: 90185262

C. Footings not specifically located on the plan shall be located on centerline of column above. Where no column occurs, locate on centerline of wall or beam.

D. Provide dowels from footing into concrete above as specified in the plinth schedule where no plinth occurs, use 4–#6 bars. Extend dowels 30 bar diameters into beam or wall.

E. Tope of footing unless noted otherwise on the drawings is at the bottom of the deepest intersecting beam or wall supported U.N.O.

F. Footing excavations shall be neat and free of loose or wet material.

G. See schedule for footing size and reinforcing.

H. Reinforcing steel shop drawings shall include placing drawings for templates to set dowels in footings.

I. All footings shall be inspected by representative of Terracon in order to ensure proposed bearing material has been reached in accordance with the recommendations given in the geotechnical report.

IX. CAST IN PLACE CONCRETE

A. CLASSES OF CONCRETE

All concrete shall conform to the requirements as specified in the table below unless noted otherwise on the drawings:

Concrete Mix Schedule:

Conc. Class	Strength psi	Agg. Type	Agg. Size	Slump Inches	Max w/c	Notes
A	3000	NWT	1 1/2"	4	---	
B	4000	NWT	1 1/2"	4	---	

a) "NWT" refers to normal concrete having air dry unit weight of approximately 145 PCF (ASTM 33 aggregate).
b) Where w/c ratio is not indicated in the Concrete Mix Schedule, it shall be as necessary to meet strength requirements.
c) Where the w/c ratio is shown, it shall be adhered to regardless of strength requirements.
a) "Strength" is required compressive cylinder strength at an age of 28 days.

Mix Usage Schedule:

Description of Use	Concrete Class	Air Content	Remarks
Spread/Strip	A	---	
Grade Beams	A	5–6%	
Slab–on–Fill	A	---	
Housekeeping Pads	A	---	
Tiltwall Panels	B	---	

B. Maximum shrinkage of the concrete shall be 0.03% at 28 days as determined by ASTM C157.

C. Provide 5 percent plus or minus 1 1/2 percent of entrained air in concrete permanently exposed to the weather and elsewhere at the contractors option.

D. Horizontal construction joints in concrete pours shall be permitted only where indicated on the drawings. All vertical construction joints shall be made in the center of spans in accordance with the typical details. Contractor shall submit proposed locations for construction joints not shown on drawings for review by the Architect and Structural Engineer. Additional construction joints may require additional reinforcing as specified by the Engineer which shall be provided by the contractor at no additional cost to the owner.

E. No conduits shall be embedded in the slab–on–fill.

X. SLAB ON FILL

A. Provide control joints or construction joints at the centerlines of all columns or at 20'–0" on center maximum in both directions, see plan

B. Tooled, saw–cut, or pre–formed joints shall be 1/4 the depth of the slab. Saw cut joints must be made within 12 hours after the slab has been placed or the saw cut joints shall be made using a "Sof–Cut" brand concrete saw within 4 hours after the completion of the finishing operation.

C. Metal keyway forms or bulkheads shall be removed prior to placement of adjacent pours.

D. Slab on fill shall be placed over subgrade prepared as described in the project Geotechnical Engineer's report and supplemental data.

XI. CONCRETE REINFORCING

A. Concrete reinforcement for the project shall conform to the following:

1. All Reinforcing Steel shall be ASTM A615, Grade 60 unless noted otherwise in the drawings or these notes.
2. Welded Reinforcing Steel. Provide reinforcing steel conforming to ASTM A706.
3. Deformed Bar Anchors. ASTM A496 minimum yield strength 70,000 PSI as noted on the drawings. Reinforcing bars shall not be substituted for deformed bar anchors.
4. Welded wire reinforcement. Welded smooth wire reinforcement, ASTM A 185, yield strength 65,000 PSI where noted on the drawings. Welded deformed wire reinforcement, ASTM A 497, yield strength 70,000 PSI where noted on the drawings. Welded wire reinforcement to be provided in flat sheets.

B. Detailing of reinforcing steel shall conform to the American Concrete Institute 315 Detailing Manual and all hooks and bends in reinforcing bars shall conform to ACI detailing standards unless shown otherwise.

C. Placement of Welded Wire Reinforcement Wherever welded wire reinforcement is specified as reinforcement, it shall be continuous across the entire concrete surface and not interrupted by beams or girders and properly lapped one cross wire spacing plus 2".

D. Reinforcement in Housekeeping Pads Provide welded smooth wire reinforcement 6x6xW2.9xW2.9 minimum in all housekeeping pads supporting mechanical equipment whether shown on the drawings or not unless heavier reinforcement is called for on the drawings.

E. In unscheduled grade beams, walls, and slabs, detail reinforcing as follows:

1. Class B Lap beam top reinforcing bars at mid span.
2. Class B Lap beam bottom reinforcing bars at the supports.
3. Provide Class B lap at other location pending Engineer's approval.
4. Provide standard hooks in top bars at cantilever and discontinuous ends of beams, walls and slabs.
5. Provide corner bars for all horizontal bars at the inside and outside faces of intersecting beams or walls. Corner bars are not required if horizontal bars are hooked.
6. Provide 2–#4 diagonal bars at all slab re–entrant corners placed under the top mat of steel.

F. Welding of reinforcing steel will not be permitted unless specifically shown on drawings.

G. Heat shall not be used in the fabrication or installation of reinforcement.

H. Reinforcing steel clear cover shall be as follows:

1. Drilled and Under–reamed Footing		3" sides and bottom
2. Earth–formed Grade Bms	1–1/2" top,	3" sides, 3" bottom
3. Formed Grade Beams	1–1/2" top,	2" sides, 3" bottom
4. Slab–on Fill	centered	
5. Concrete Panels Interior Exposure	¾" U.N.O.	
6. Concrete Panels Exterior Exposure	1–1/2" U.N.O.	

"Exterior Exposure" refers to concrete exposed to earth or weather.

XII. STRUCTURAL STEEL CONNECTIONS

A. Base Plates

1. Column base plates shall be set to the elevation indicated on the drawings and leveled using shims or by double nuts on anchor bolts. Base plates shall then be grouted with a non–shrink, high strength nonmetallic grout. Tighten anchor bolts after supported members have been positioned and plumbed.
2. Hole sizes in base plates may be oversized. However washers are required at all moment frames and brace from column base plates.

B. All anchor bolts shall conform to ASTM 1554 Grade 55 U.N.O. supplement 2

C. Welded Connections

1. All welding shall conform to ANSI/AWS D1.1, latest edition.
2. Fillet welds with no size specified shall be 3/16" or minimum size required by AISC, whichever is larger.

D. Unless noted otherwise on the drawings, Bolts shall be 3/4" diameter and conform to ASTM A325. Bolts shall be designed using values for bearing type bolts with thread allowed in the shear plane.

1. Bolts shall be tightened to "snug tight" as defined by AISC U.N.O.
2. Bolts noted as "Slip Critical" throughout the documents shall be tightened to the Minimum Pretensioned amounts according to Section J of the AISC specification using one of the following methods: Turn–of–the–nut Method, Calibrated Torque Wrench, or Direct Tension Indicators.

E. Structural steel connections not specifically detailed on the Drawings shall be designed and detailed by the Contractor under the direct supervision of a registered engineer licensed in the State of Texas. Sealed calculations for all connections designed by the Contractor shall be submitted with steel shop drawings where connections are not designed as specified G+M shall mark up shop dwgs and fabricator shall revise shop dwgs at no cost to owner.

F. Beam connections shall be detailed as follows, unless noted otherwise on the Drawings:

1. Connections shall be AISC type 2 simple framing connections. Shear tab connections shall not be used.
2. In general, shop connections shall be bolted or welded and field connections shall be bolted.
3. The minimum number of rows of bolts shall be 1/6 of the beam depth with any fraction be rounded to the next higher number.
4. Bolts shall be "snug tight", u.n.o..
5. Short slotted holes shall be permitted provided washers are installed in accordance with AISC requirements. Washers shall be hardened where A325 bolts are utilized.

G. Roof edge angles shall be continuous and shall be spliced only at supports. Splices shall be bolt welded to develop full capacity of the member.

H For connections not specifically addressed by these notes or the Drawings, provide fillet welds at all contact surfaces sufficient to develop the tensile strength of the smaller member at the joint.

I. All Electrode for welding Structural steel members shall conform to E70XX.

XIII. TESTING LABORATORY SERVICES

A. Work specified herein shall be performed by a qualified Independent Testing Laboratory, selected and paid by the Owner. The Contractor shall be responsible for notifying the Independent Testing Laboratory at least 24 hours of advance of materials that require testing. The contractor shall pay for all retests of materials not meeting the requirements in the Contract Documents. Reports of each Test shall be prepared by the Independent Testing Laboratory and submitted promptly to the Owner, Contractor, Architect, and Engineer. Items found not to comply with the Construction Documents shall be brought to the immediate attention of the Contractor and Architect/ Engineer for resolution.

B. Footings: Make continuous inspections to determine that the proper bearing stratum is obtained and utilized for bearing, that the Excavations are clean and dry before pouring concrete and drilled shafts are under reams are specified size.

C. Earthwork operation:

1. Analyze backfill samples delivered by the contractor to determine compliance with gradation and quality requirements of the geotechnical report.
2. Make in place compaction tests for moisture content, moisture density relationship, and density of materials in place. Perform one test for each 5000 square feet of area per lift.

D. Concrete inspection and testing:

1. Secure composite samples of concrete at the jobsite in accordance with ASTM C172.
2. Mold and cure four specimens from each sample in accordance with ASTM C31. Test specimens in accordance with ASTM C39 for each pour of concrete.
3. Perform one strength test (four cylinders) for each 50 cubic yards of fraction thereof, of each mix design placed in one day. Test one cylinder @ 7 days, 2 @ 28 days, and hold one for 56 days (test only if 28 day strength is low.)
4. Make one slump test for each set of cylinders following the procedural requirements of ASTM C143 and C172.
5. Determine total air content of air entrained concrete in accordance with ASTM C231. Perform one test for each strength test.

E. Concrete Reinforcement: Inspect all concrete reinforcing steel and embedded metal assemblies prior to placement of concrete for compliance with Contract Documents and shop drawings. All instances of non–compliance shall be immediately brought to the attention of the contractor for correction, and if uncorrected, reported to the engineer.

F. Structural Steel: Field inspection of proper erection erection of all members, visual examination of all field welding, visual inspection of all bolts, and inspection of all shop fabricated members upon arrival at the jobsite for conformance with acceptance with accepted fabrication and erection drawings, verification of welder's certificates.

G. Roof deck attachment: provide inspection of deck connection for conformance with contract requirements.

H. Special Inspections: Special Inspections shall be performed in accordance with Chapter 17 of the 2015 IBC Amendments by a Special Inspector hired by the Owner to perform the Special Inspections listed in building permit. The Special Inspector shall be qualified by an approved agency according to Texas Dot to perform the special inspections for which they will be undertaking. The Contractor shall coordinate with and notify the Special Inspector of all tests. The Special Inspector shall be responsible to verify that the items detailed in the Construction Documents were built accordingly and shall prepare, sign, and submit reports to the Registered Design Professional (RDPIRC) in Responsible Charge for all time spent at the site and shall notify the General Contractor responsible for the quality of the Project of the non–complying items. Special inspections are in addition to other listed in these Structural Notes or Project Specifications and are Required Based on Permit.

G. Copy Garza + McLain on all testing and special inspection reports.

XIV. STRUCTURAL STEEL

A. Material

1. All hot rolled steel members shall be new and conform to ASTM specification A6.
2. ASTM Specification and Grade. Clearly mark the grade on each member.
3. Unless noted otherwise structural steel members shall be:
   a. W–shapes shall conform to ASTM A992. ASTM A572 Grade 50 may be substituted for A992.
   b. Channels shall conform to ASTM A36,
   c. Angles shall conform to ASTM A36.
   d. Steel pipe shall conform to ASTM A53, Type E or S, Grade B.
   e. Square or rectangular hollow structural shape members shall conform to ASTM A500 Grade B, Fy = 46ksi.
   f. Structural steel plate shall conform to ASTM A36 U.N.O.
   g. Miscellaneous steel elements for Brace connections including but not limited to gusset plates, stiffeners, transfer plates, base plates, etc. shall conform to ASTM A572 Grade 50, Fy=50ksi.
   h. Any other steel shall conform to ASTM A36.

B. Fabrication

1. Fabricate and assemble structural assemblies in shop to greatest extent possible.
2. Dimensional tolerances of fabricated structural steel shall conform to Section 6.4 of the AISC Code of Standard Practice unless noted otherwise.
3. Splicing of structural steel members is prohibited without prior approval of the Engineer as to location and type of splice to be made. Any member having splice not shown and detailed on shop drawings will be rejected.
4. Shop painting: Paint structural steel with one coat of manufacturer's standard water based primer applied at a rate to provide a uniform dry film thickness of 2.5 mils.
5. All Hollow Structural shapes shall have fitted end caps.

C. Erection

1. Erection tolerances of anchor bolts, embedded items, and all structural steel unless specified otherwise on the drawings shall conform to the AISC Code of Standard Practice.
2. Field cutting of structural steel or any field modifications to structural steel shall not be made without prior approval of the Engineer.
3. Contractor shall protect any unprimed structural steel from detrimental effects of corrosion, as required, until the steel is enclosed and protected by the new construction.

D. Hot Dip galvanize after fabrication all structural steel items and connections permanently exposed to the outside, whether specified on the drawings or not. Such items include, but are not limited to:

1. Shelf angles
2. Parapet wall supporting members
3. All embedded plates in concrete Exposed to Weather
4. Building cladding support steel in space not air conditioned and/or exposed to moisture outside the exterior waterproofing surface if any.
5. Examine the architectural and structural drawings for other items required to be hot dipped galvanized. Galvanize all nuts, bolts, and washers used in connection with such steel. Field welded connections shall have welds protected with "Z.R.C. Cold Galvanizing Compound" as manufactured by Z.R.C. Company.

E. Contractor shall coordinate structural steel fireproofing requirements. All interior structural steel, including steel joists, scheduled or indicated to receive spray applied fireproofing shall be delivered to the project site unprimed. Steel exposed to corrosive conditions after installation shall be primed with a protective coating which does not diminish the bond between the spray applied fireproofing, and the steel substrate. Any primer, and/or coating applied to structural steel shall be approved for use in the applicable U.L. Fire Resistance Assembly used on the project.

F. The steel detailer shall coordinate any changes required if joist seat depth increase from 2.5 inches at no cost to owner.

G. Contractor to provide an allowance for one tons of structural steel to be furnished, fabricated, and installed during the progress of the work as directed by the Structural Engineer in addition to all of the structural steel indicated on the drawings. If the structural steel is not used during the progress of the project, the owner shall receive a credit for the portion not used.

XV. METAL DECKS

A. Metal Roof Deck

1. Metal Roof Deck Schedule:

Location	SDI Deck Gauge	Deck Type	Sheet Depth (in.)	Min. Width (in.)	Min. Ix (in.4)	Min. Sp. (in.3)	Sn (in.3)
Roof	20	WR	1.5	36	0.201	0.234	0.247

Sp = positive section modulus in3
Sn = negative section modulus in3
Ix = moment of inertia

2. Roof deck shall be galvanized.
3. Sheet steel for galvanized roof deck and accessories shall conform to ASTM A653–94, Structural Quality, with a minimum yield strength of 80 ksi. Galvanizing shall conform to ASTM A924–94 with a minimum coating of G90 as defined in A653–94.
4. Roof deck shall be continuous over four or more supports.
5. Place deck panels on structural supports and adjust to final position with ends located over structural supports. Provide minimum end bearing of 2 inches.
6. Roof deck connections shall be as follows:

Support Location	Connx Pattern	Support Fastener	Sidelap Fastener/ No per Span.
Roof	36/7	⅝"Pw	(12) #12

PW=Puddle Welds, TS=Tek Screw
HILTI FASTENER= Hilti X–ENP–19 L15 Fastener.

See plans for "a" dimension and Interior Fields, Perimeter Band, Ridge Band, and Corner Zones wind loads.

a. At interior supports: Weld Ø12"o.c. (U.N.O)
b. At perimeter supports: Puddle welds at 6" on center. (U.N.O)
c. Spaces at corners puddle welds @6"o.c. (U.N.O)

7. Power driven fasteners shall be selected by the contractor for the combinations of deck gauge and deck support member thickness. Submit proposed fasteners with complete manufacturer's information, including diaphragm shear values for Engineer's review.
8. Mechanical, electrical & plumbing systems shall not be supported by the metal roof deck.

XVII. STRUCTURAL CONCRETE MASONRY

A. Minimum compressive prism strength of the masonry (f'm) shall be 1500 pounds per square inch when tested at 28 days.

B. Mortar shall conform to ASTM C270, Type S. Masonry cement shall not be used.

C. All concrete masonry units shall be hollow load bearing Type N–1 Lightweight units which conform to ASTM C90, with a minimum net compressive strength as follows:

f'm (psi)	Net area Compressive Strength Of CMU Block (psi)
1500	1900

D. Coarse grout shall conform to ASTM C476, with a maximum aggregate size of ⅜" and a minimum compressive strength equal to the specified minimum prism compressive strength, f'm, but not less than 2500 psi.

E. Reinforce concrete masonry and joints with ladder type hot dip galvanized cold–drawn steel conforming to ANSI/ASTM A82, with (no. 9 gauge or 3/16 inch) side rods with no. 9 gauge cross rods. Space joint reinforcing at 16" o.c. unless noted otherwise. Lap joint reinforcing 14" at splices. Joint reinforcing shall be discontinuous at control and expansion joints.

F. Lap reinforcing bars in grouted masonry 48 bar diameters minimum at all locations, unless noted otherwise. Splices in reinforcing shall be staggered so that not more than 1/2 of all bars are spliced at the same location.

XVIII. TILT–UP CONCRETE WALL PANELS

A. Concrete strength at lifting shall be as determined by lifting analysis, but shall not be less than 75 percent of the specified 28 day strength.

B. Tilt wall Panel Elevations shown in the drawings are as viewed from the building interior.

C. In addition to the reinforcing shown in the panel elevations, provide additional reinforcing as follows unless noted on Panel Reinforcement Elevations:

a. Provide 2 #4 x 3'–0" each face placed diagonally at the corners of all openings.
b. Provide additional reinforcement over each lifting insert per the calculations provided by the concrete contractor.

D. Inserts, braces, and other accessories required to lift and erect the wall panels shall be designed and provided by the Contractor. Lifting arrangement shall be so devised as to prevent cracking of the concrete due to erection stresses including a 50 percent increase in forces due to impact. Contractor shall provide any additional panel reinforcing steel required for lifting and bracing stresses.

E. Hot dip galvanize all items required for wall panel connections including embedded items in panels and foundations exposed to the exterior. All galvanized surfaces effected by welding shall be touched up with a cold galvanizing compound unless covered by concrete.

F. Welding of embedded items shall be executed in such a manner to prevent cracking, or spalling of concrete.

G. Provide and coordinate all cast in place elements such as finishes, reglets, reveals, rustications, chamfers, sleeves, plates, conduits, openings and other accessories as required with the architectural, mechanical, electrical, and pre–engineered metal building drawings.

H. Brace wall panels until permanent connections of floor and roof have been connected. Permanent bracing and Rigid Frames shall be completely installed before bracing is removed.

XIX. OPEN WEB JOISTS

A. Open Web Steel Joists shall conform to the Standard Specifications of the Steel Joist Institute (SJI). Chords of joists shall be angles or tees steel shall be fabricated from domestic steel.

B. Provide bridging in accordance with SJI specifications and OSHA Standard 29CFR–1926.751(C)2. Bridging shall be continuous through structural steel members, and shall be anchored to spandrel members or walls. Provide additional bridging where required for uplift.

C. Joist manufacturer shall design bottom chords of all open web joists to support a 50 lb load located anywhere along the length of the chord.

D. Hangers for mechanical equipment with reactions in excess of 50 lbs must be located at the panel points of the joists. Provide joist reinforcing in accordance with the typical details where hangers are required to be located more than 3" from the joist panel points.

E. All joists shall be inspected and certified by an independent testing laboratory to meet the weld requirements as follows:

1. The weld has no cracks.
2. Thorough fusion exists between adjacent layers of weld metal and between weld metal and the base metal at the welded connection.
3. All craters are filled to the full cross section of the weld joint.
4. All weld profiles shall be reasonably uniform. it is recognized that all web joint welds will not have a perfect profile, however, the effective throat and penetration shall be equal to the throat required by the design drawings. Visual inspection of the welds shall be made to confirm that unequal legs, excessive convexity, or overlap conditions do not detract from the effective throat of the weld.
5. Undercutting of welds is undesirable but is acceptable if the depth of undercutting does not exceed 1/32". Welds that have undercutting in excess of 1/32" shall be repaired and reinspected.
6. Any cluster of surface porosity in the weld area is to be removed and replaced with sound weld metal.
7. The surface of the shop welds shall be reasonably clean prior to the inspection.
8. All repair procedures shall be in accordance with AWS D1.1 Contractor shall bear the cost for all reinspection. Guide to the inspection shall be provided to the Structural Engineer prior to shipment of joists.

F. Provide flat bearing for all joists. Bear joists on supports in accordance with SJI specifications.

G. Joists shall be connected to their supports in accordance with SJI specifications and/or with a 1/8"–inch fillet along the entire length the joist seat each side typical.

H. Shop painting: Joists shall receive one coat of fabricator's standard primer.

I. Joist sizes specified have been sized for ASD load combinations considering a 10 psf downward end pressure.

J. Joist provider shall notify engineer if a larger depth of joist seat is required during bidding.

XX. TEXAS DEPARTMENT OF WINDSTORM CERTIFICATION

A. Texas Department of Windstorm Certification:
The project is located in San Patricio County on Inland 1 wind zone designated catastrophe area. All exterior windows, doors, wall coverings, roof coverings, canopies and mechanical equipment and their attachment to the main structure must be designed for a component and cladding wind pressure corresponding to a 3–sec gust of 129 mph wind speed Exposure C in 1.0 Building Code 2006 with the Texas Windstorm Amendments. All products will require certification stating that the products have been designed and installed for the components and cladding uniform static wind pressure of the aforementioned code. The sub–contractor shall submit the wind storm product certification, the component and and cladding wind pressure the product was designed for, any manufacture certification in regards to Texas Wind Storm, and the connection requirements for the product to the of Record. in addition, all exterior openings i.e. windows and doors shall be impact resistant to wind debris.

B. Glazed Exterior openings and doors shall be Impact resistant from windstorm debris and be designed and attached to meet the following wind speed 129 mph, exposure C, I = 1.0 and Kd = 1.0 the following shall include elevations for attachment that specifically show type and spacing of connectors.

C. Texas Windstorm Submittals

The Contractor and Subcontractors must submit products approved by the Texas Department of Insurance of Equal. When submitting an equal Test Reports, Engineered Calculations and Elevations with Attachment Anchorage must be submitted. Any submittal without proper certifications and data proving that the product meets TDI will be rejected.

a. Exterior Windows
b. Exterior Doors
c. Mechanical Roof Curbs
d. Exterior Mechanical Units
e. Roofing
f. Exterior Canopies
g. Roof Insulation
h. Exterior Over Head Doors
i. Exterior Mounted Lights
j. Parapet Coping / Cap
k. CU Connection

D. Texas Windstorm Inspections
1. Footings
2. Roof Deck attachment
3. Exterior Glazing
4. Exterior Doors
5. Piers to Foundation connections
6. Structural Steel framing
7. Roof Mounted MEP Equipment
8. Exterior Cladding
9. Roofing Insulation
10. Roofing
11. Exterior mounted lights
12. Light poles and fixtures
13. Concrete panels
14. Pre–manufactured canopies
15. CU Connection

E. TDI Corrosion Resistance Requirements for Construction in the Designated Catastrophe Zone as defined by TDI, the following modifications must be made to the Fastener Schedule.

1. Inland I and Inland II Areas – Metal connectors and fasteners located in open areas shall be either stainless steel and meet ASTM A167, hot–dip galvanized after fabrication and meet ASTM A123 or ASTM A153; hot–dip galvanized or electrogalvanized in accordance with ASTM B633; or mechanically deposited zinc coatings in accordance with ASTM B695; or electrodeposited zinc coatings in accordance with ASTM B633.

2. Inland I and Inland II Areas – Metal connectors and fasteners located in vented or enclosed areas may meet the requirements or R325.1.2.1 or shall be epoxy–coated in accordance with ASTM A899.

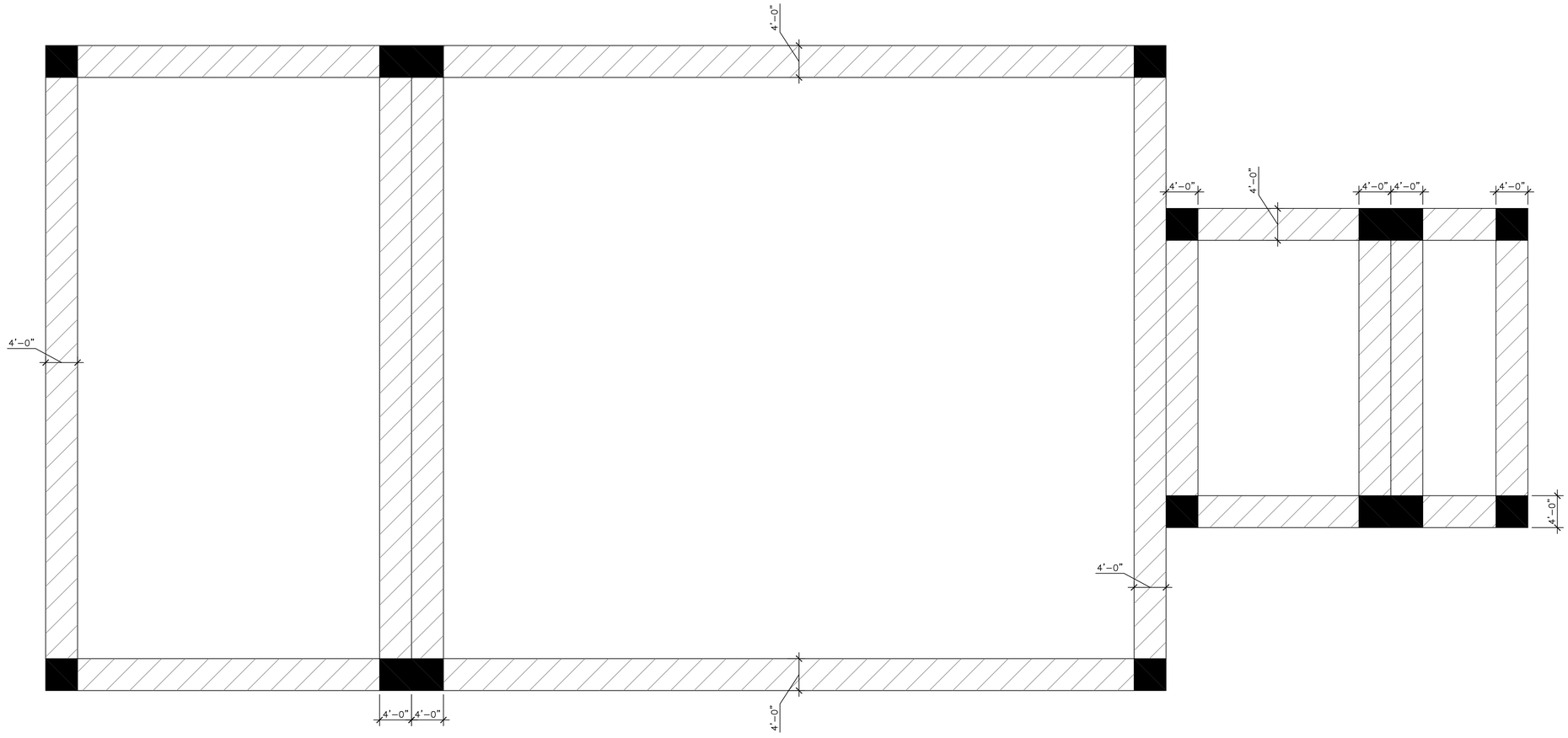
3. Exception for all Areas – Metal connectors and fasteners located in conditioned areas (Heated and Cooled Living Areas) are not required to be corrosion resistant. One–half inch diameter or greater steel bolts are not required to be corrosion resistant.

4. Open Areas Shall include Porches, Decks, Carports, Exterior Wall Coverings, Roof Coverings, Metal Ties for Stone and Masonry Veneer, The Underside of Elevated Structures, Anchors for Securing Mechanical Equipment, Garage Door Attachments, Roof Vent Attachments, Skylight Attachments, and Impact Protective Systems (Shutters).

5. Vents Areas Shall Include Attics, Exterior Wall Stud Cavities, Crawl Spaces, Window and Exterior Door Attachments, Roof Sheathing, and Wall Sheathing.

Seaward Areas –	130 mph
Inland Areas –	120 mph
Inland Areas –	110 mph

F. Products that are not Approved by TDI or The Florida Building Code will require Certification by a professional Engineer. The drawings and calculations shall be sealed. Additional cost will be charged to the Contract



ASD NET UPLIFT PRESSURES

- 82 PSF ZONE 3
- 56 PSF ZONE 2
- 30 PSF ZONE 1

1 NET JOIST UPLIFT LOAD PLAN

SCALE: 1/8" = 1'–0"

NORTH

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05.10.19

DRAWING HISTORY

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78382

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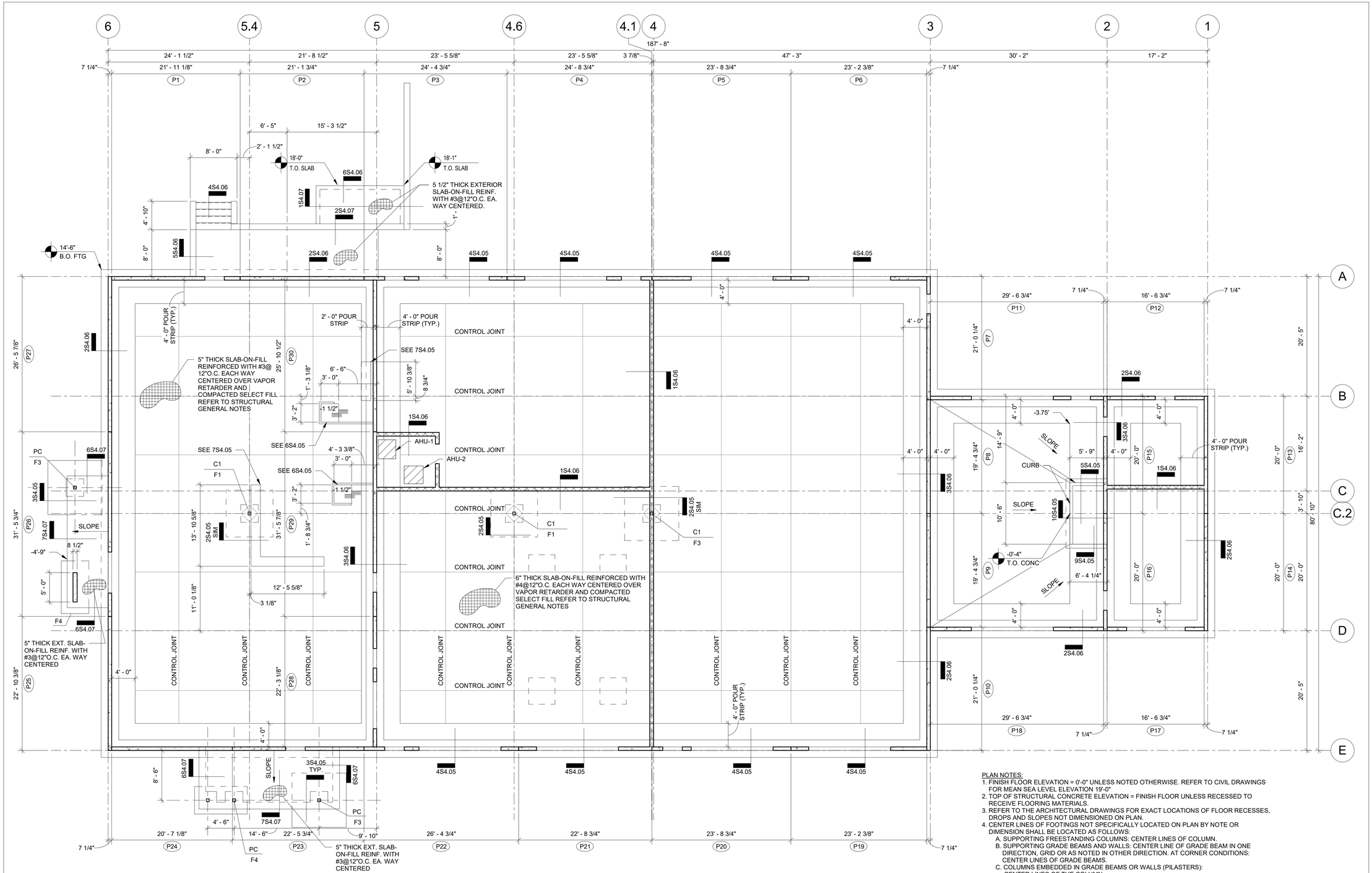
1003526

SHEET TITLE

STRUCTURAL GENERAL NOTES

SHEET NUMBER

S0.02



PLAN NOTES:

1. FINISH FLOOR ELEVATION = 0'-0" UNLESS NOTED OTHERWISE. REFER TO CIVIL DRAWINGS FOR MEAN SEA LEVEL ELEVATION 19'-0"
2. TOP OF STRUCTURAL CONCRETE ELEVATION = FINISH FLOOR UNLESS RECESSED TO RECEIVE FLOORING MATERIALS.
3. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FLOOR RECESSES, DROPS AND SLOPES NOT DIMENSIONED ON PLAN.
4. CENTER LINES OF FOOTINGS NOT SPECIFICALLY LOCATED ON PLAN BY NOTE OR DIMENSION SHALL BE LOCATED AS FOLLOWS:
   A. SUPPORTING FREESTANDING COLUMNS: CENTER LINES OF COLUMN.
   B. SUPPORTING GRADE BEAMS AND WALLS: CENTER LINE OF GRADE BEAM IN ONE DIRECTION, GRID OR AS NOTED IN OTHER DIRECTION. AT CORNER CONDITIONS: CENTER LINES OF GRADE BEAMS.
   C. COLUMNS EMBEDDED IN GRADE BEAMS OR WALLS (PILASTERS): CENTER LINES OF THE COLUMN.
5. REFER TO SHEET S4.00 TO S4.04 FOR TYPICAL FOUNDATION DETAILS.
6. REFER TO STRUCTURAL GENERAL NOTES AND PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. REFER TO ARCH'L DRAWINGS FOR ADDITIONAL INFORMATION.
8. NOTATION THUS: PC INDICATES A PRE-ENGINEERED CANOPY COLUMN BY OTHERS.

1 FOUNDATION PLAN

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

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ROCKPORT, TX
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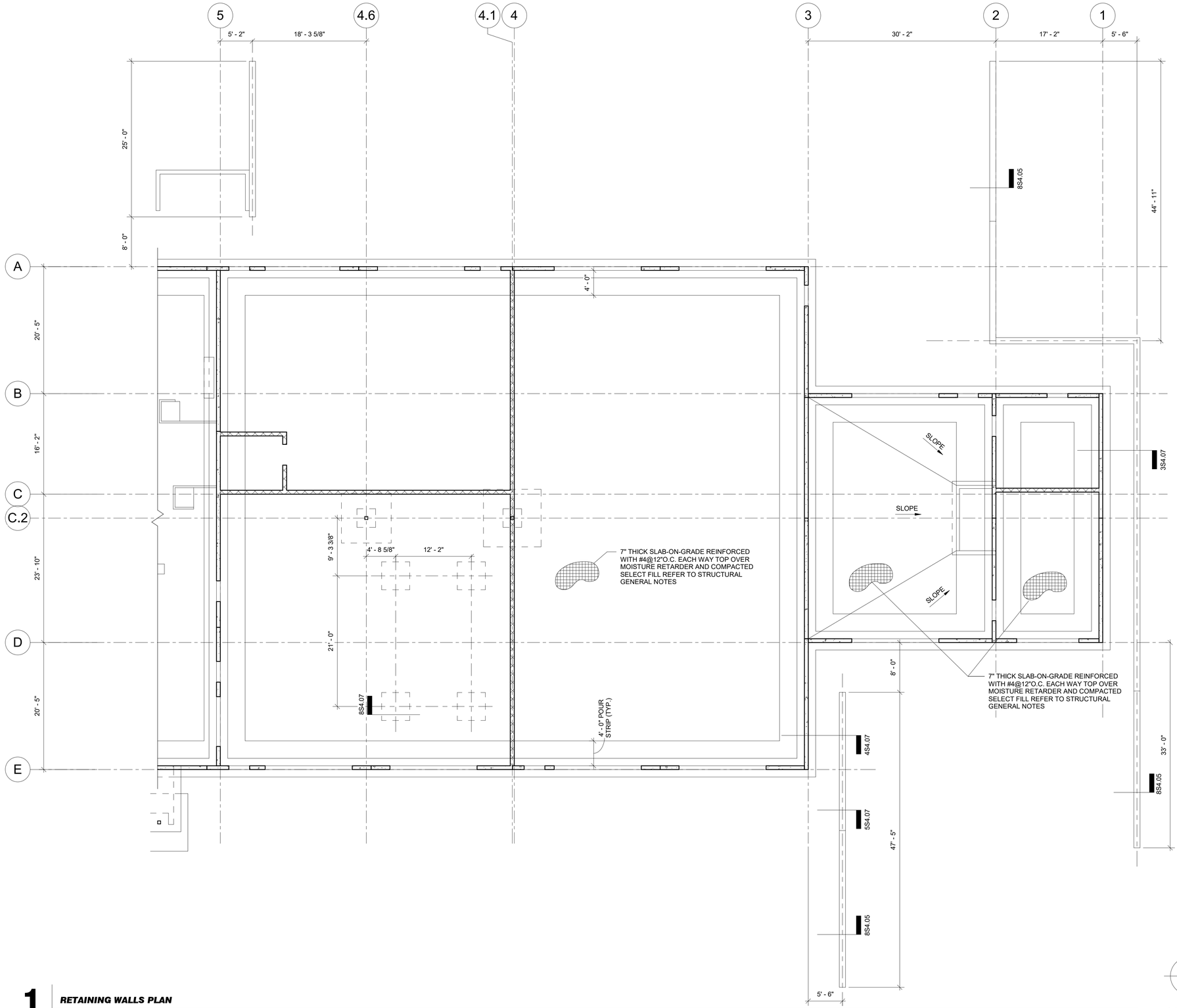
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SHEET TITLE

FOUNDATION PLAN

SHEET NUMBER

S1.00



1 ***RETAINING WALLS PLAN***

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

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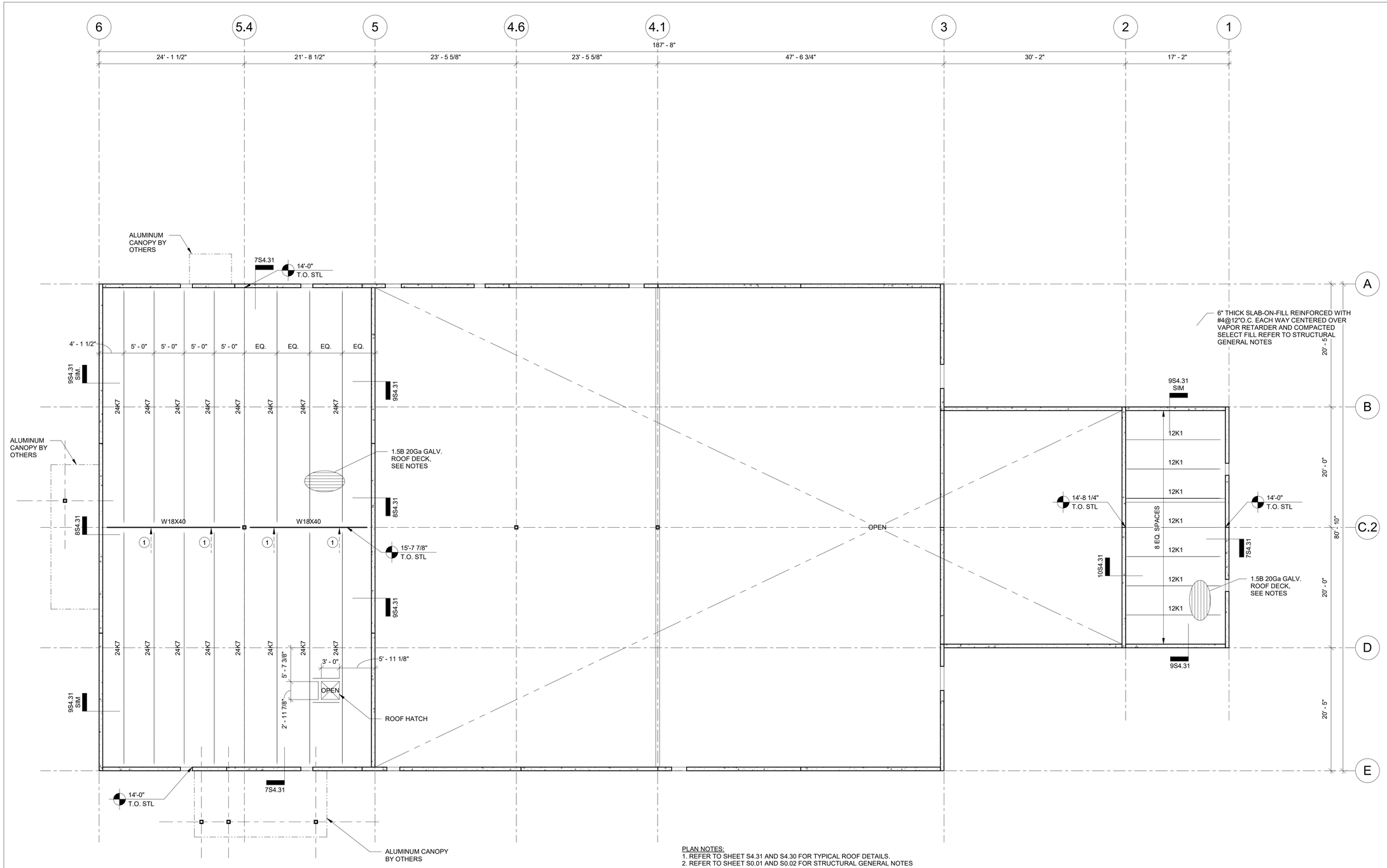
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SHEET TITLE

RETAINING WALLS PLAN

SHEET NUMBER

S1.01A



PLAN NOTES:
1. REFER TO SHEET S4.31 AND S4.30 FOR TYPICAL ROOF DETAILS.
2. REFER TO SHEET S0.01 AND S0.02 FOR STRUCTURAL GENERAL NOTES AND ADDITIONAL INFORMATION.
3. REFER TO ARCH'L AND MEP DRAWINGS FOR ADDITONAL INFORMATION.
4. NOTATION THUS: X'-X" T.O STL — INDICATES BOTTOM OF ROOF DECK, TOP OF STEEL JOIST, OR TOP OF STEEL BEAM.
5. SEE STRUCTURAL GENERAL NOTES FOR ROOF DECK ATTACHMENT.
6. JOISTS ARE EQUALLY SPACED BETWEEN COLUMNS OR WALLS U.N.O.
7. NOTATION THUS: ▶ — INDICATES A MOMENT CONNECTION.
8. NOTATION THUS: (1) ► — INDICATES A BOTTOM FLANGE BRACE, SEE DETAILS.

1 LOW ROOF FRAMING PLAN

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

NORTH

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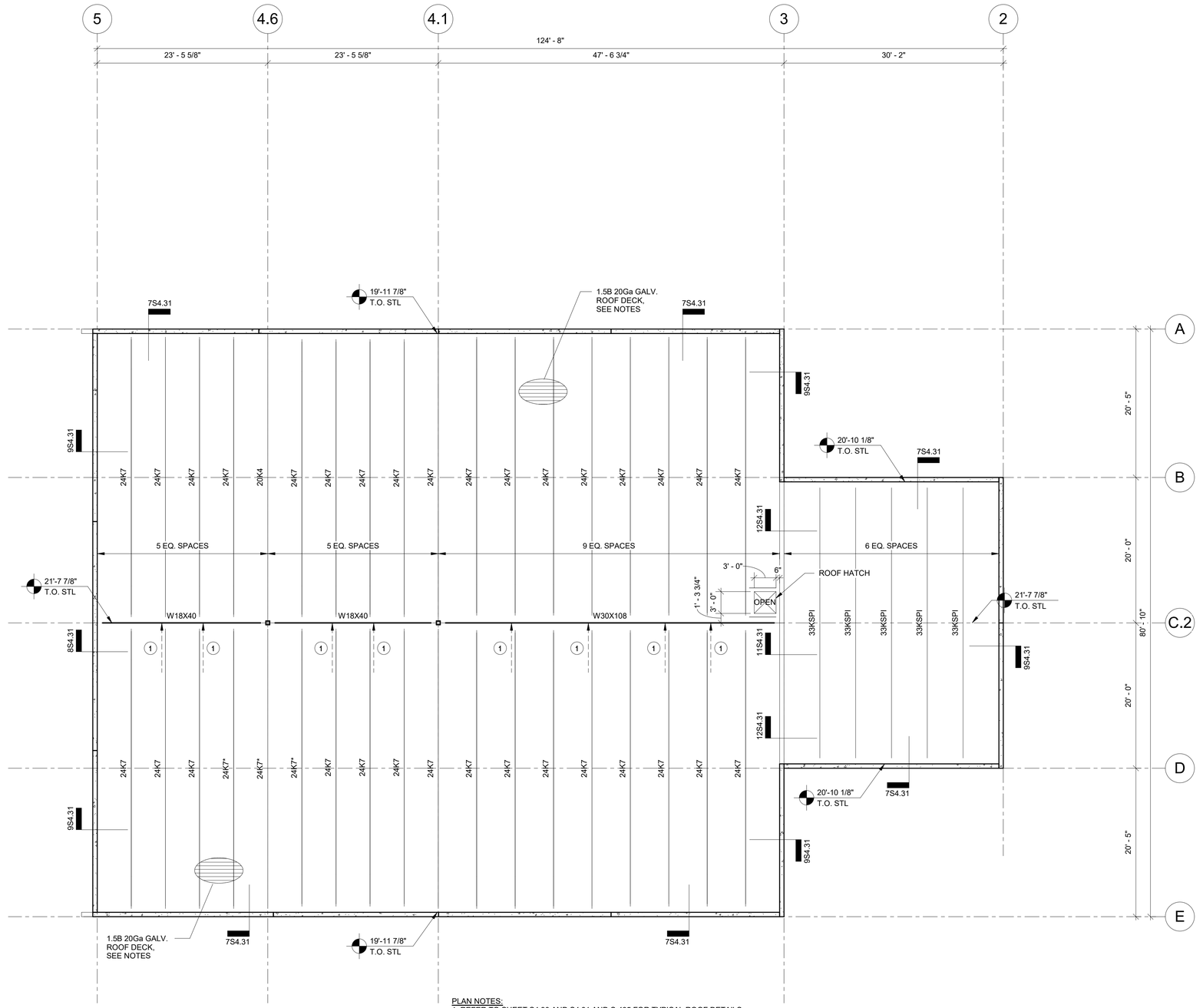
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SHEET TITLE

LOW ROOF FRAMING PLAN

SHEET NUMBER

S2.00



PLAN NOTES:
1. REFER TO SHEET S4.30 AND S4.31 AND S-435 FOR TYPICAL ROOF DETAILS.
2. REFER TO SHEET S0.01 AND S0.02 FOR STRUCTURAL GENERAL NOTES AND ADDITIONAL INFORMATION.
3. REFER TO ARCH'L AND MEP DRAWINGS FOR ADDITONAL INFORMATION.
4. NOTATION THUS: X'-X" T.O STL — INDICATES BOTTOM OF ROOF DECK, TOP OF STEEL JOIST, OR TOP OF STEEL BEAM.
5. SEE STRUCTURAL GENERAL NOTES FOR ROOF DECK ATTACHMENT.
6. JOISTS ARE EQUALLY SPACED BETWEEN COLUMNS OR WALLS U.N.O.
7. NOTATION THUS: ▶ INDICATES A MOMENT CONNECTION.
8. NOTATION THUS: (1) ► INDICATES A BOTTOM FLANGE BRACE.
9. NOTATION THUS: 33KSP1 INDICATES A DOUBLE PITCH TOP CHORD JOIST MINIMUM DEPTH AT ENDS.
10. NOTATION THUS: 24K7* INDICATES JOIST TO BE DESIGNED FOR 500# LOAD AT CENTER SPAN FOR FAN.

1 ***HIGH ROOF FRAMING PLAN***

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

NORTH

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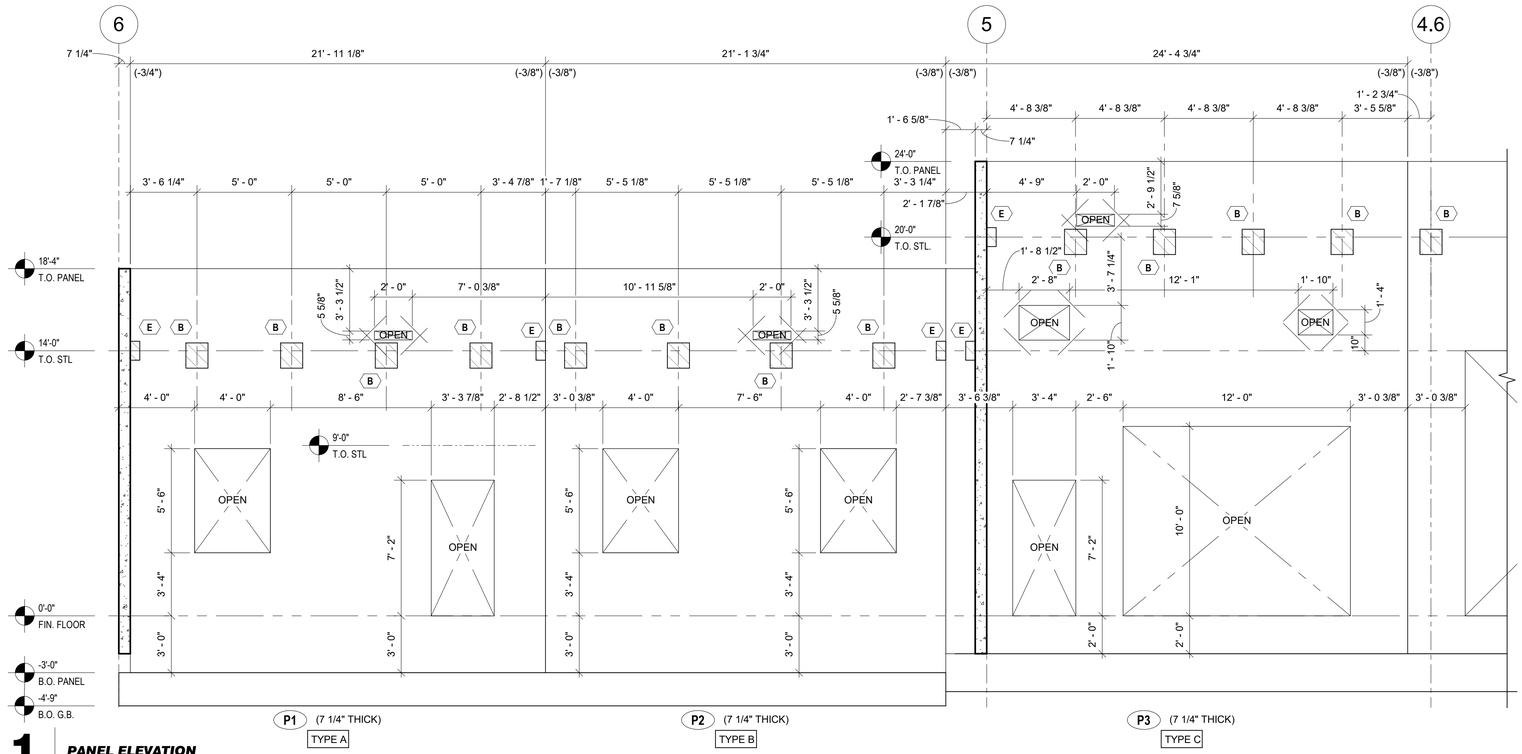
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HIGH ROOF FRAMING PLAN

SHEET NUMBER

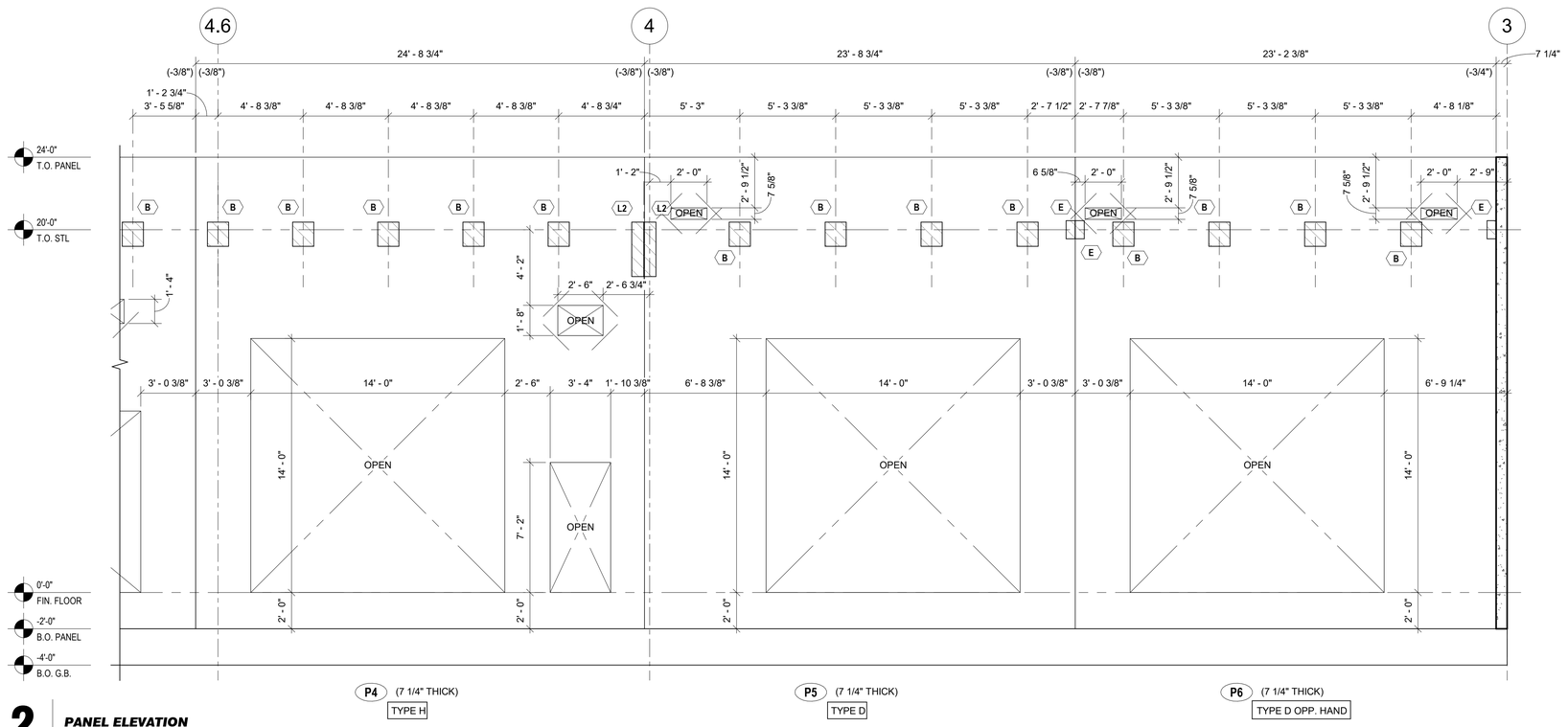
S2.01



1 ***PANEL ELEVATION***

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

PANEL NOTES:
1. SEE S3.10 AND S3.11 FOR TYPICAL DETAILS, REINFORCEMENT, AND EMBED PLATES.
2. ALL PANELS ARE 7 1/4" THICK U.N.O.
3. REINFORCING SHOWN ON WALL PANEL ELEVATIONS ARE IN ADDITION TO THAT DETAILED ON SHEETS PANEL REINFORCING ELEVATIONS.
4. PROVIDE AND COORDINATE ALL CAST IN PLACE ELEMENTS SUCH AS FINISHES, REVEALS, RUSTICATIONS, CHAMFERS, SLEEVES, SPLATES, CONDUITES, OPENINGS (SIZE AND LOCATION ETC.) AND OTHER ACCESSORIES AS REQUIRED WITH THE ARCHITECHTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
5. COORDINATE ALL OPENING SIZE WITH ARCHITECTURAL AND MEP DRAWINGS.
6. PANEL ELEVATIONS ARE SHOWN AS VIEWED FROM THE INSIDE OF THE BUILDING.
7. ALL PANEL DIMENSIONS ARE C.L. OF PANEL JOINTS OR OUTSIDE FACE OF BU BUILDING UNLESS NOTED ON ELEVATION AS EDGE OF PANEL (E.O.O.)
8. NOTATION THIS: (-3/8") INDICATES DIMENSION FROM C.L. PANEL JOINT (OR GRID) TO EDGE OF PANEL.
9. ALL MECHANICAL OPENINGS CAN NOT BE INCREASED WITHOUT CONSENT OF ENGINEER OF RECORD.



2 ***PANEL ELEVATION***

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

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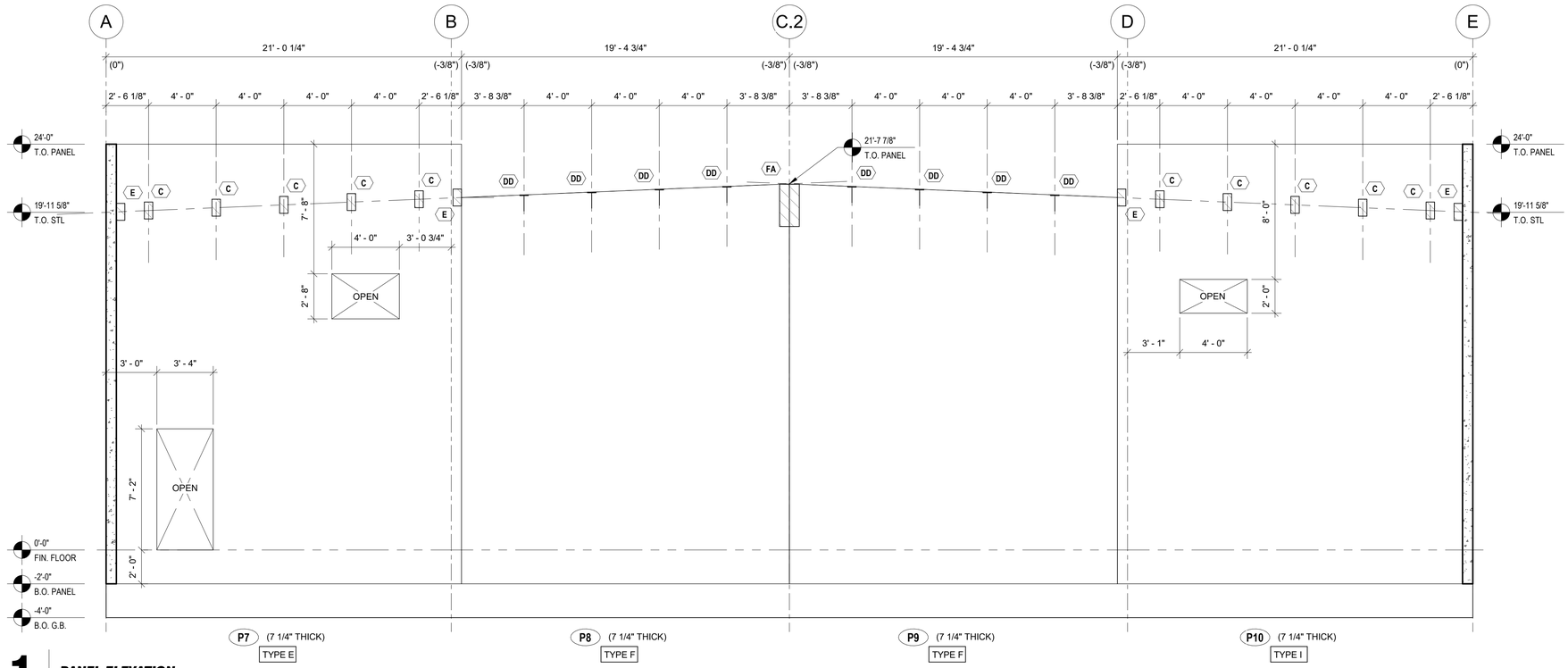
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SHEET TITLE

TILT-WALL PANEL ELEVATIONS

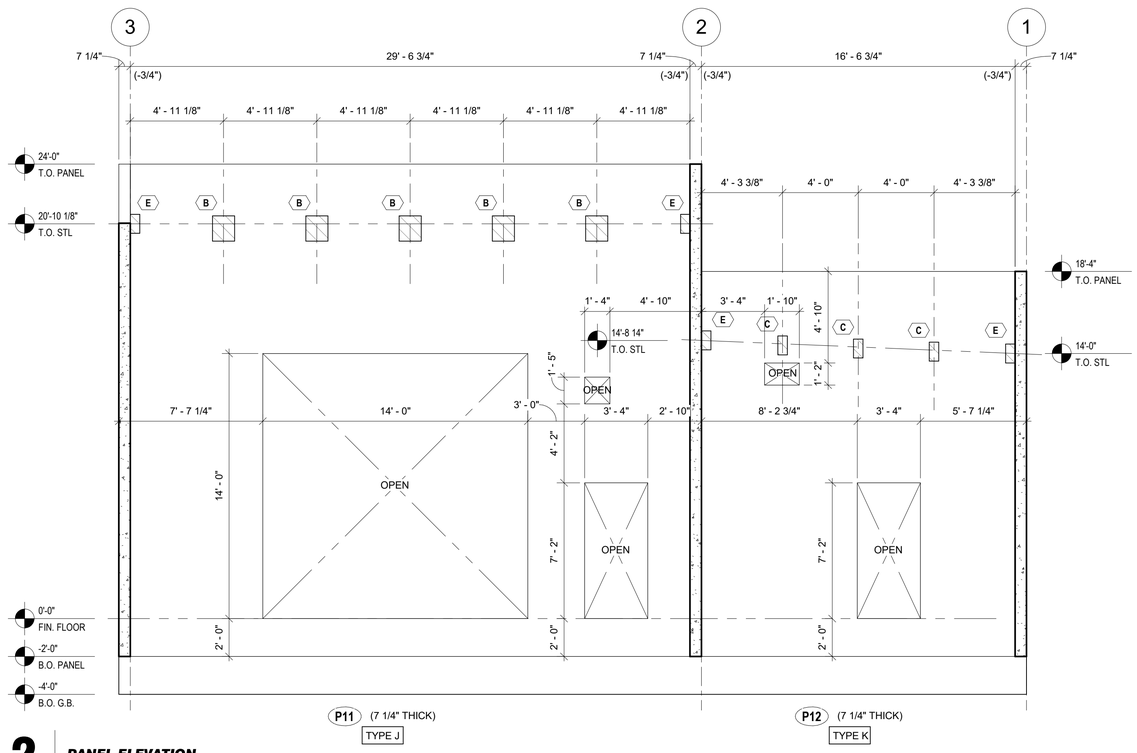
SHEET NUMBER

S3.01



1 ***PANEL ELEVATION***

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



2 ***PANEL ELEVATION***

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

PANEL NOTES:
1. SEE S3.10 AND S3.11 FOR TYPICAL DETAILS, REINFORCEMENT, AND EMBED PLATES.
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5. COORDINATE ALL OPENING SIZE WITH ARCHITECTURAL AND MEP DRAWINGS.
6. PANEL ELEVATIONS ARE SHOWN AS VIEWED FROM THE INSIDE OF THE BUILDING.
7. ALL PANEL DIMENSIONS ARE C.L. OF PANEL JOINTS OR OUTSIDE FACE OF BU BUILDING UNLESS NOTED ON ELEVATION AS EDGE OF PANEL (E.O.O.)
8. NOTATION THIS: (-3/8") INDICATES DIMENSION FROM C.L. PANEL JOINT (OR GRID) TO EDGE OF PANEL.
9. ALL MECHANICAL OPENINGS CAN NOT BE INCREASED WITHOUT CONSENT OF ENGINEER OF RECORD.

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FIRM NO. T-9331
EXPIRES 6/30/2020
JOB NO. 190019

REGISTRATION

STATE OF TEXAS
GABRIEL GARZA
90960
LICENSED PROFESSIONAL ENGINEER
05.10.19

DRAWING HISTORY

No.	DATE	DESCRIPTION
	3-12-2019	ISSUE FOR 95% CD REVIEW
	5-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

000000000

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

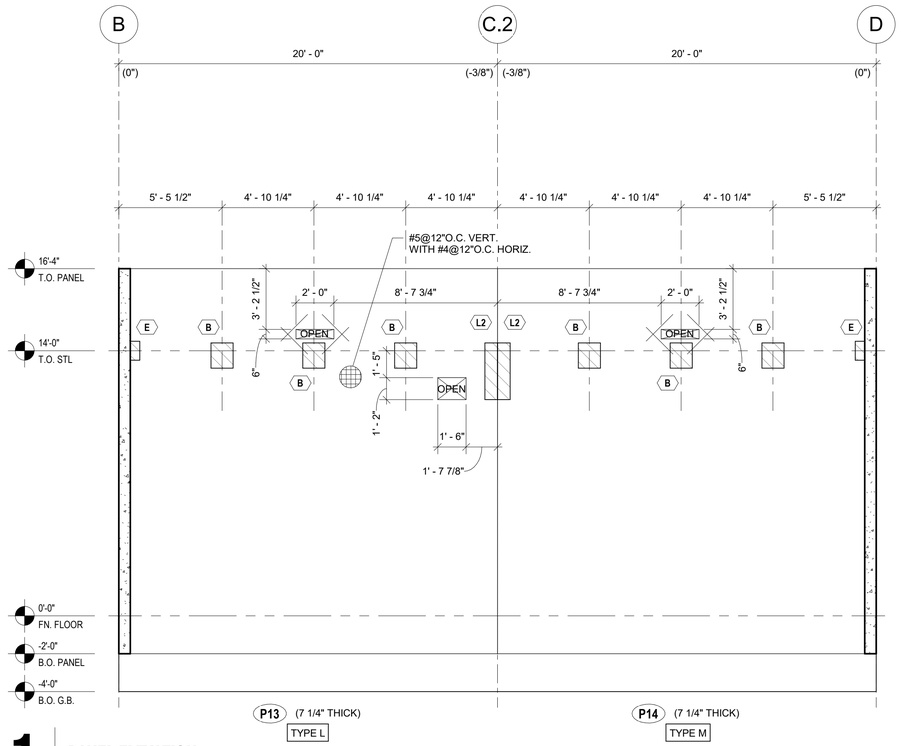
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SHEET TITLE

TILT-WALL PANEL ELEVATIONS

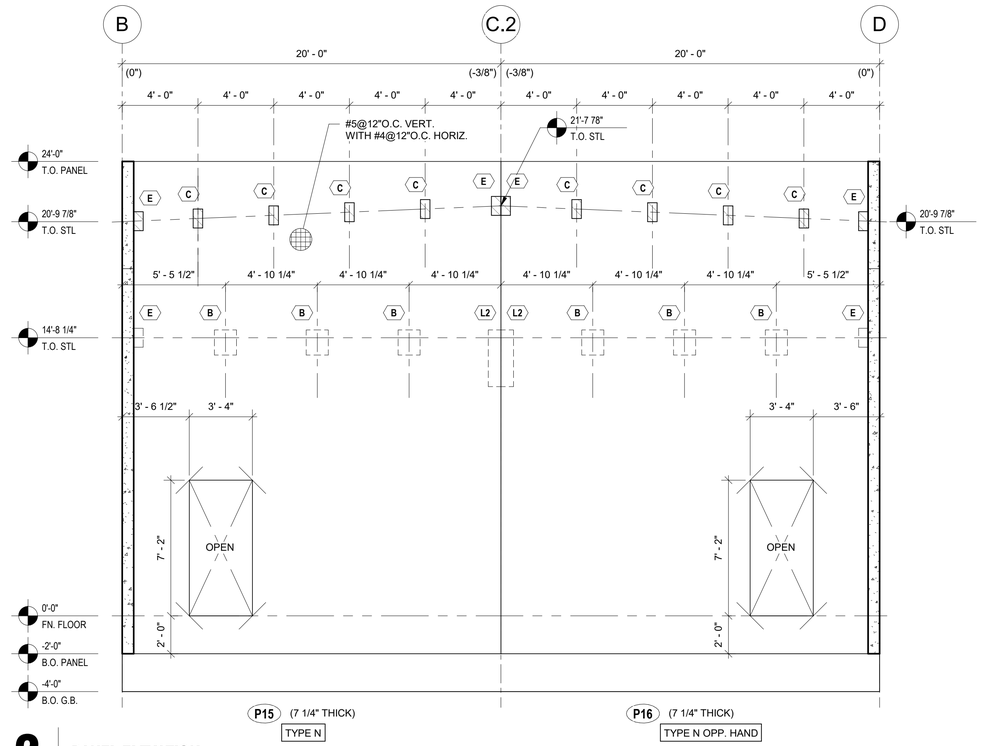
SHEET NUMBER

S3.02



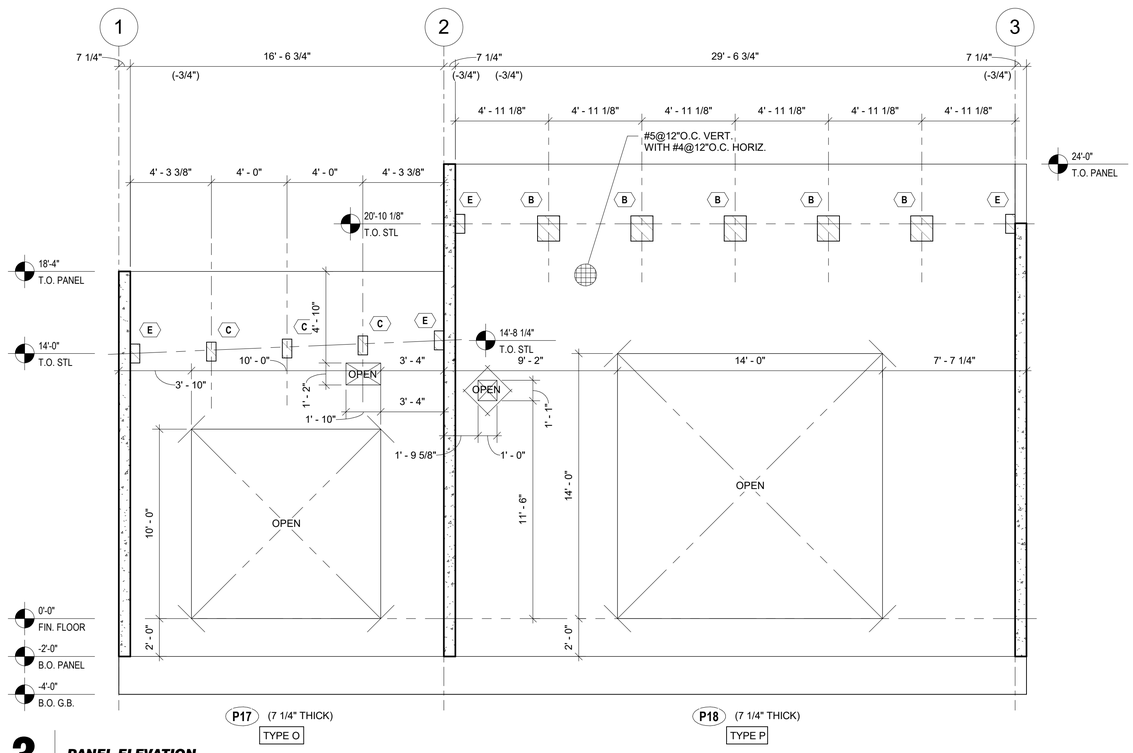
1 ***PANEL ELEVATION***

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



2 ***PANEL ELEVATION***

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



3 ***PANEL ELEVATION***

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

PANEL NOTES:
1. SEE S3.10 AND S3.11 FOR TYPICAL DETAILS, REINFORCEMENT, AND EMBED PLATES.
2. ALL PANELS ARE 7 1/4" THICK U.N.O.
3. REINFORCING SHOWN ON WALL PANEL ELEVATIONS ARE IN ADDITION TO THAT DETAILED ON SHEETS PANEL REINFORCING ELEVATIONS.
4. PROVIDE AND COORDINATE ALL CAST IN PLACE ELEMENTS SUCH AS FINISHES, REVEALS, RUSTICATIONS, CHAMFERS, SLEEVES, SPLATES, CONDUITES, OPENINGS (SIZE AND LOCATION ETC.) AND OTHER ACCESSORIES AS REQUIRED WITH THE ARCHITECHTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
5. COORDINATE ALL OPENING SIZE WITH ARCHITECTURAL AND MEP DRAWINGS.
6. PANEL ELEVATIONS ARE SHOWN AS VIEWED FROM THE INSIDE OF THE BUILDING.
7. ALL PANEL DIMENSIONS ARE C.L. OF PANEL JOINTS OR OUTSIDE FACE OF BU BUILDING UNLESS NOTED ON ELEVATION AS EDGE OF PANEL (E.O.O.)
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EXPIRATION DATE 12/31/19
JOB NO. 190019

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PROFESSIONAL
ENGINEER
05.13.19

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PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

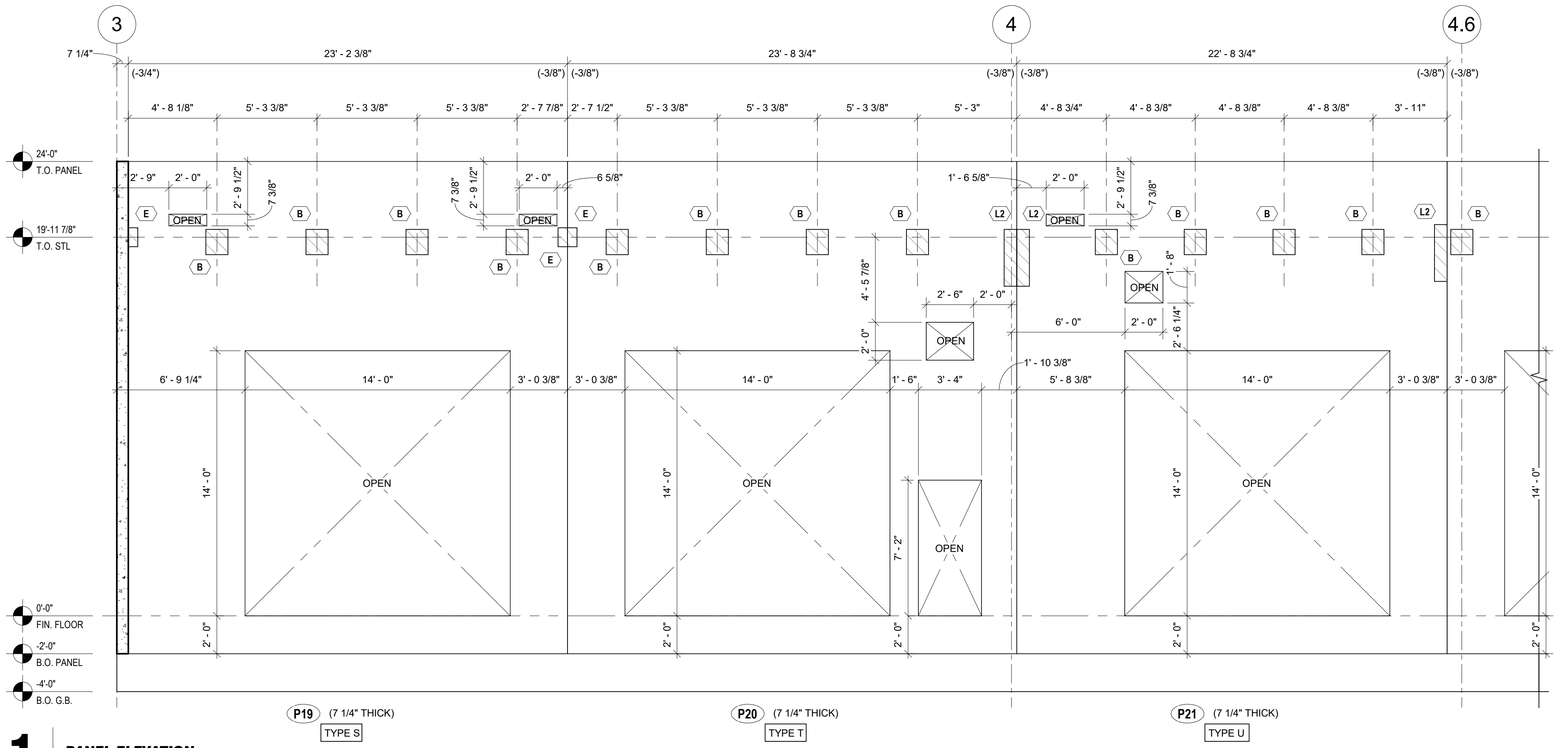
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SHEET TITLE

TILT-WALL PANEL ELEVATIONS

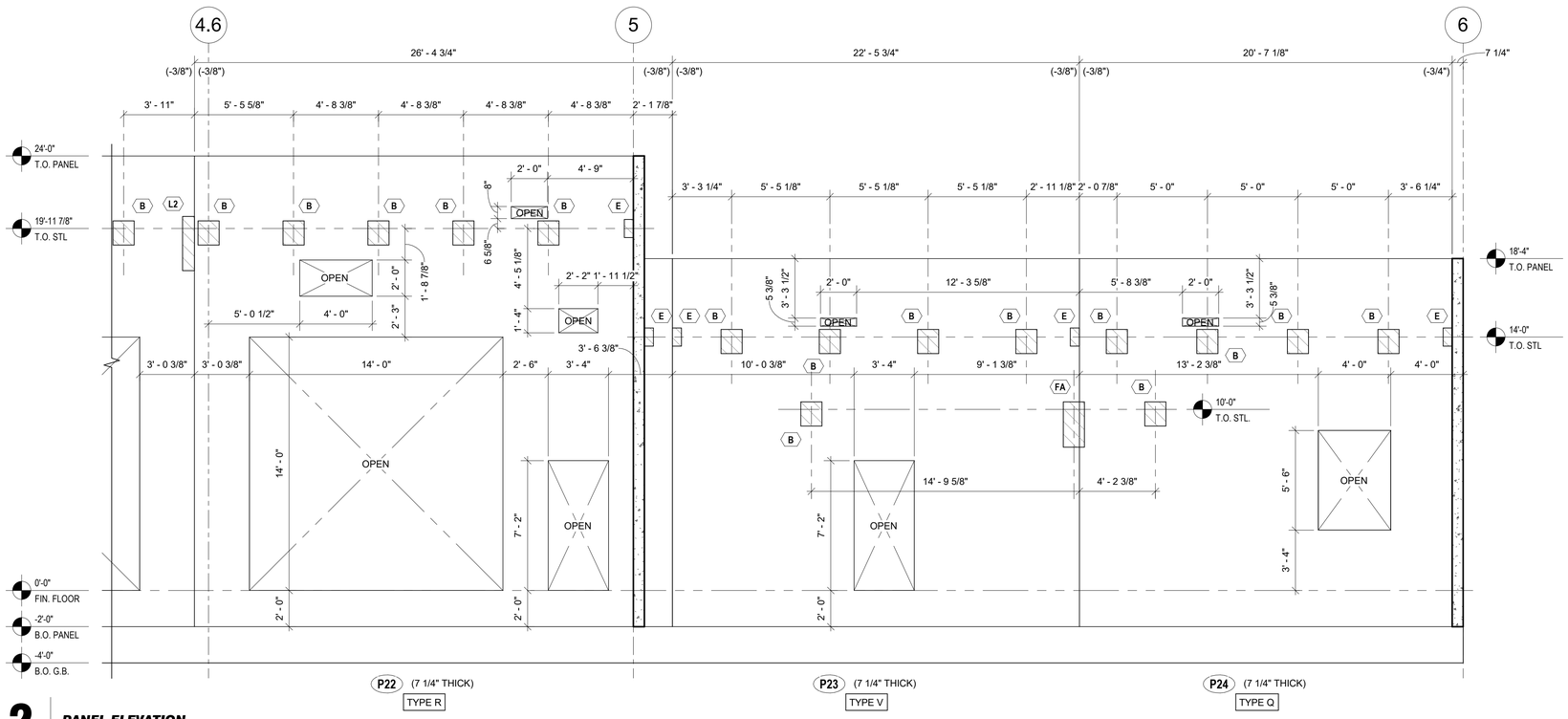
SHEET NUMBER

S3.03



1 ***PANEL ELEVATION***

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



2 ***PANEL ELEVATION***

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

PANEL NOTES:
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REGISTRATION

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1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

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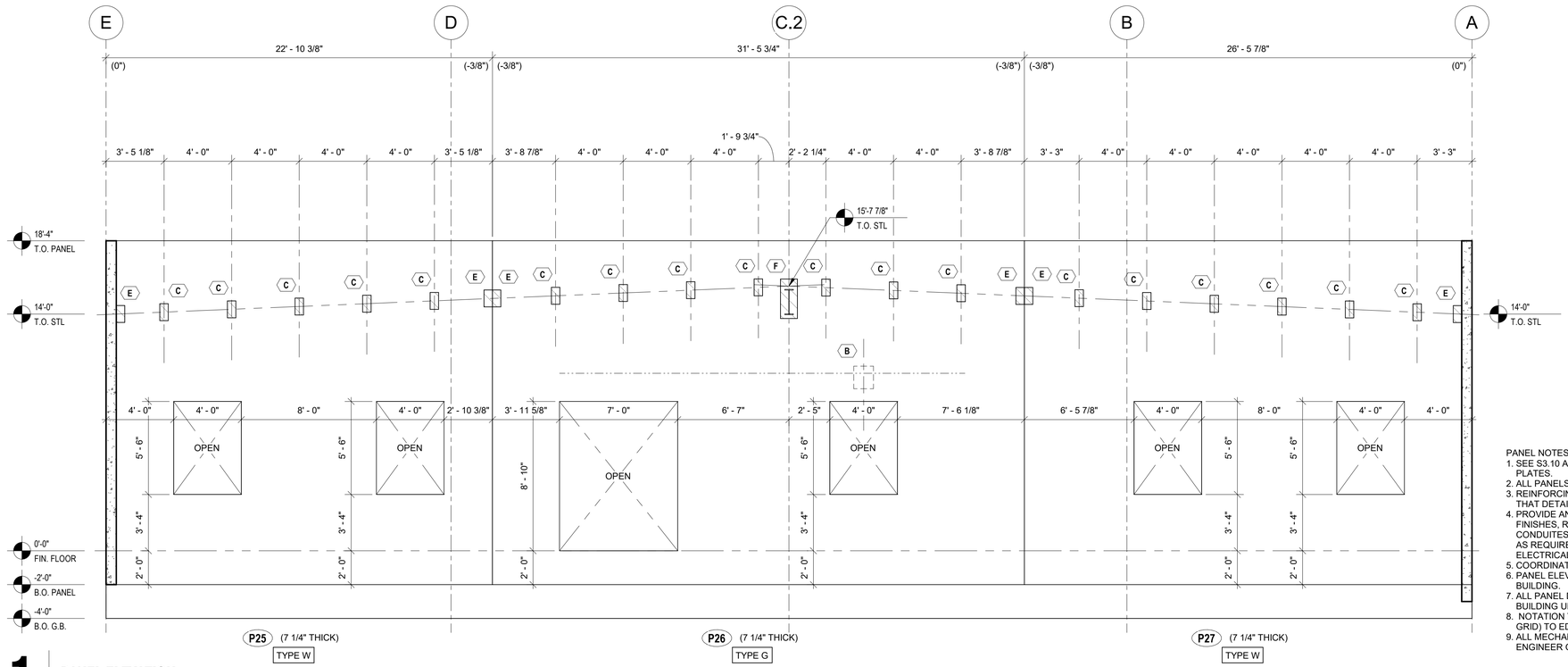
SHEET TITLE

TILT-WALL PANEL ELEVATIONS

SHEET NUMBER

S3.04

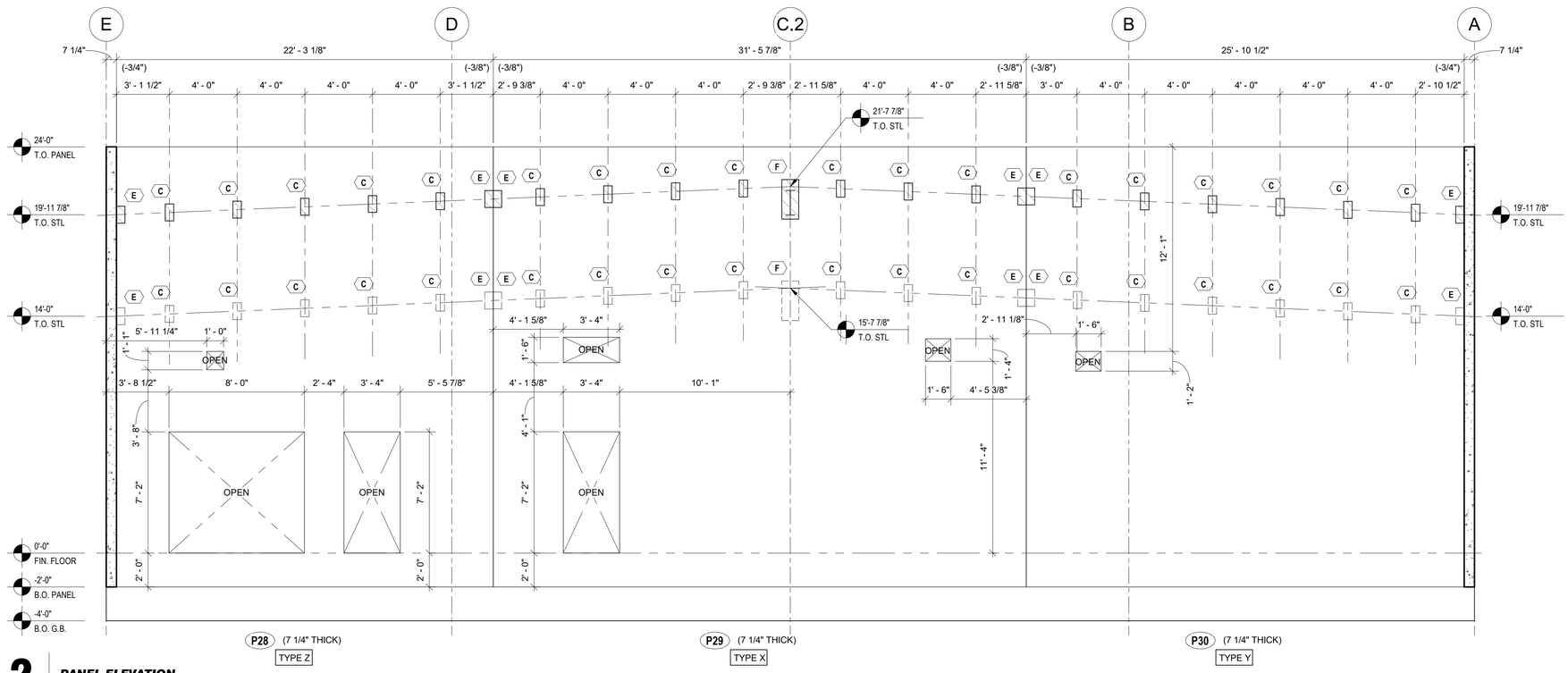
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1 ***PANEL ELEVATION***

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

PANEL NOTES:
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2 ***PANEL ELEVATION***

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

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PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

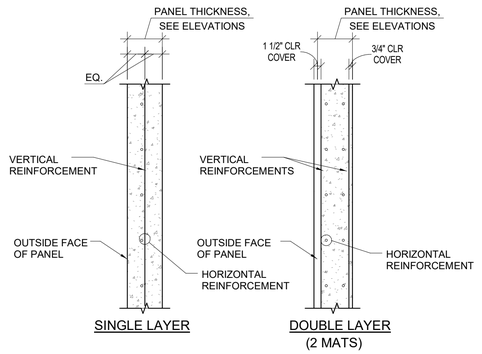
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SHEET TITLE

TILT-WALL PANEL ELEVATIONS

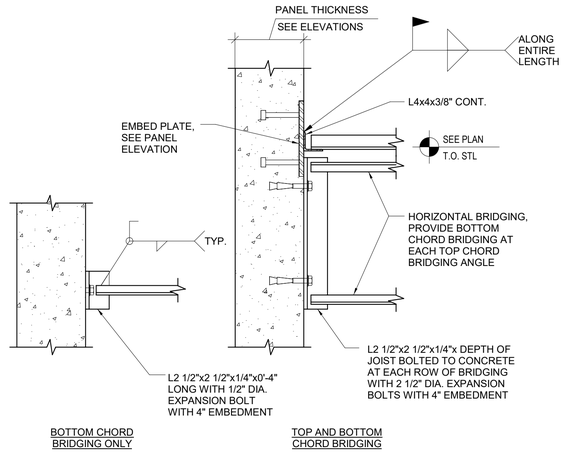
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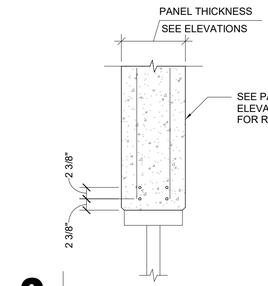
1 TYPICAL PANEL REINFORCING DETAIL

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



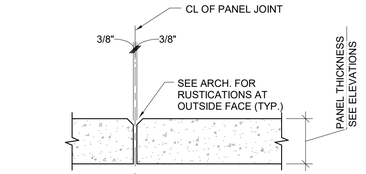
2 TYPICAL BRIDGING ANCHOR DETAIL

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



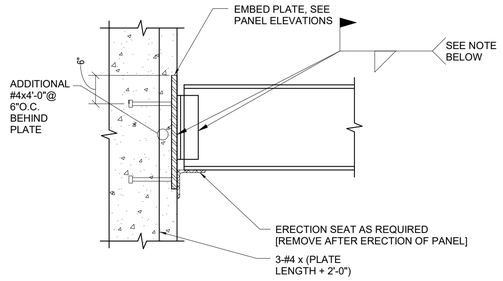
3 TYPICAL DOOR HEAD/JAMB DETAIL

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



4 TYPICAL PANEL JOINT DETAIL

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



NOTE:
1. DOUBLE ANGLE CONNECTION SEE TYPICAL DETAIL.
2. DETAIL APPLIES WHERE BM IS PERPENDICULAR TO WALL.

5 TYPICAL STEEL BEAM TO CONCRETE CONNECTION DETAIL

SCALE: NTS

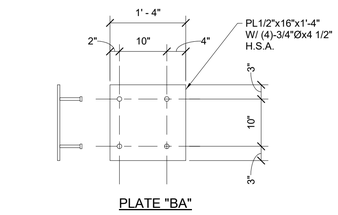
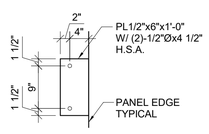


PLATE "BA"



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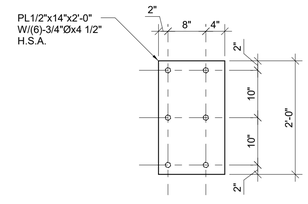


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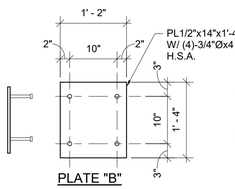
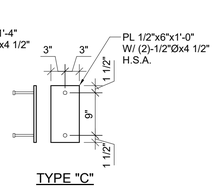


PLATE "B"



TYPE "C"

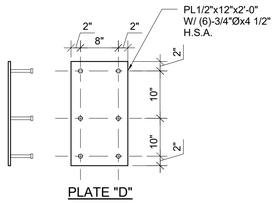


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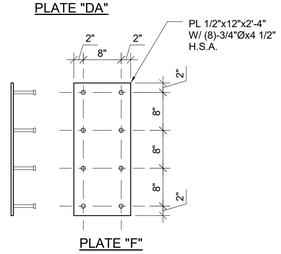
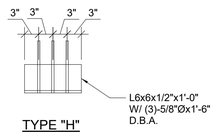
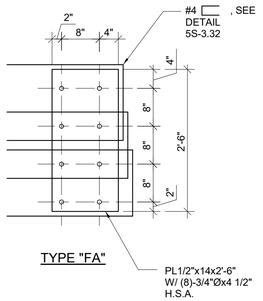


PLATE "F"



TYPE "H"



TYPE "FA"

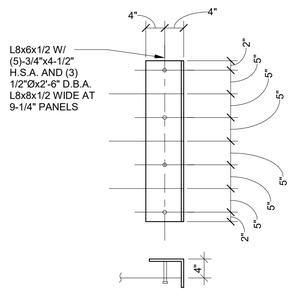


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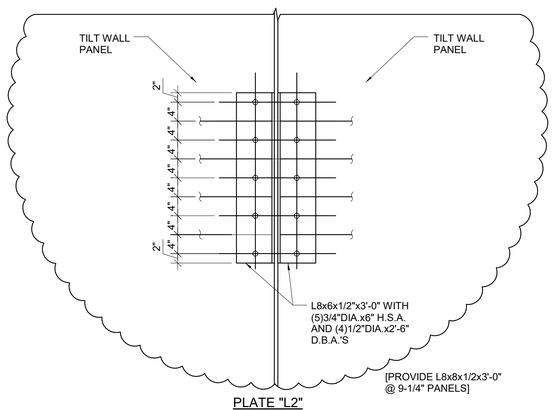


PLATE "L2"

6 EMBED SCHEDULE

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

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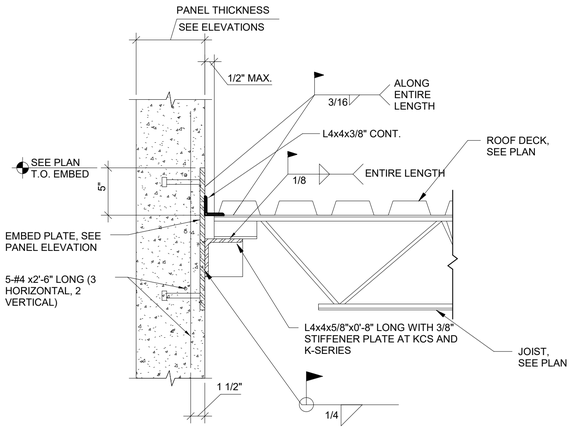
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SHEET TITLE

TILTWALL PANEL DETAILS

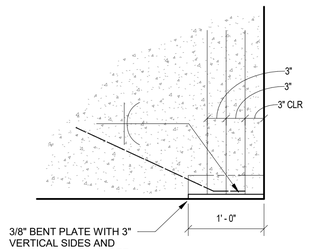
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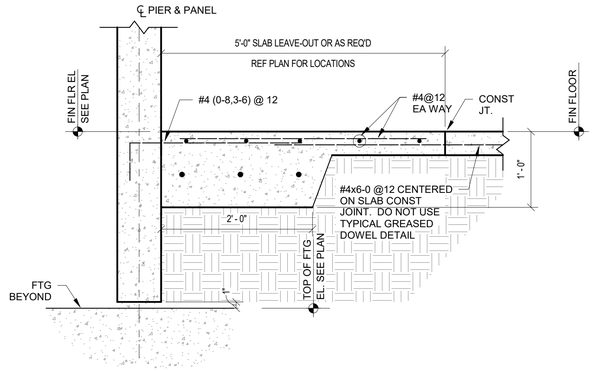
1 TYPICAL JOIST SEAT DETAIL

SCALE: NTS



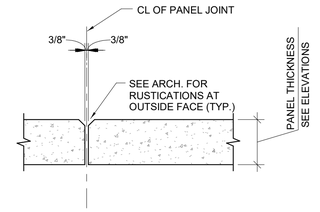
2 TYPICAL PANEL BEARING EMBED DETAIL

SCALE: NTS



3 TYPICAL PERIMETER SECTION

SCALE: NTS



4 TYPICAL PANEL JOINT DETAIL

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

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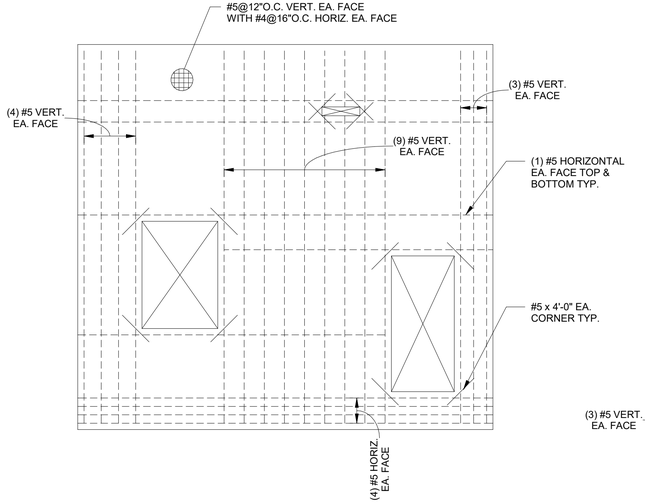
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SHEET TITLE

TILTWALL PANEL DETAILS

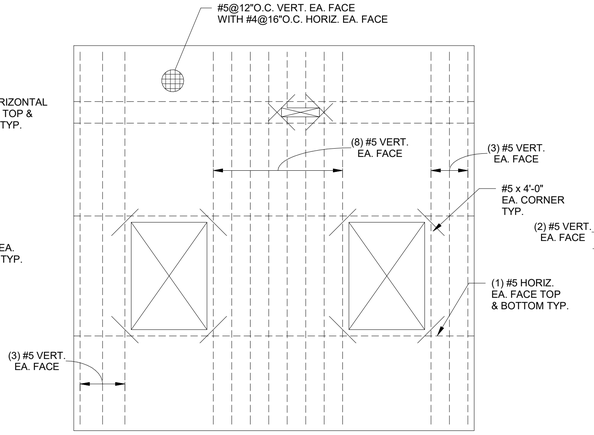
SHEET NUMBER

S3.11



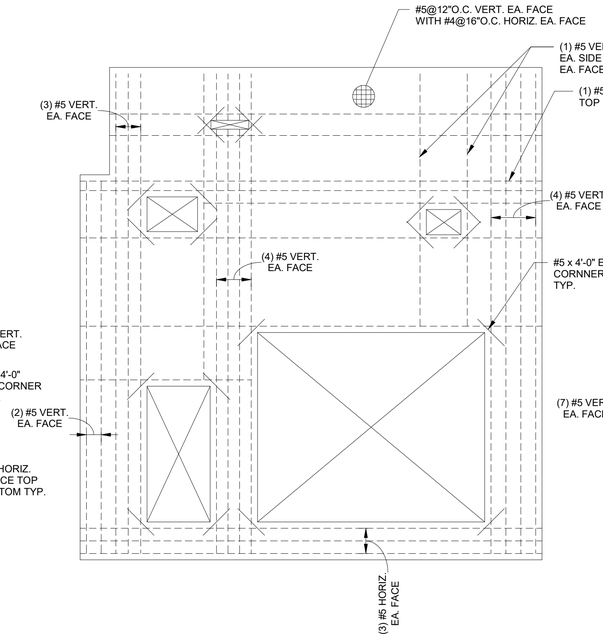
1 ***TYPE "A" PANEL REINFORCEMENT ELEVATION (2 LAYERS)***

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



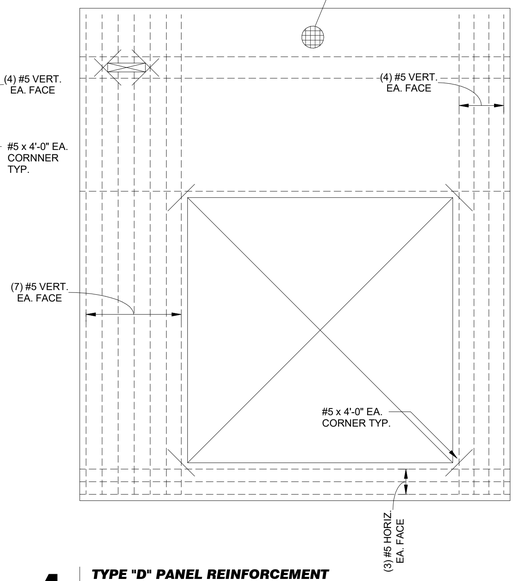
2 ***TYPE "B" PANEL REINFORCEMENT ELEVATION (2 LAYERS)***

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



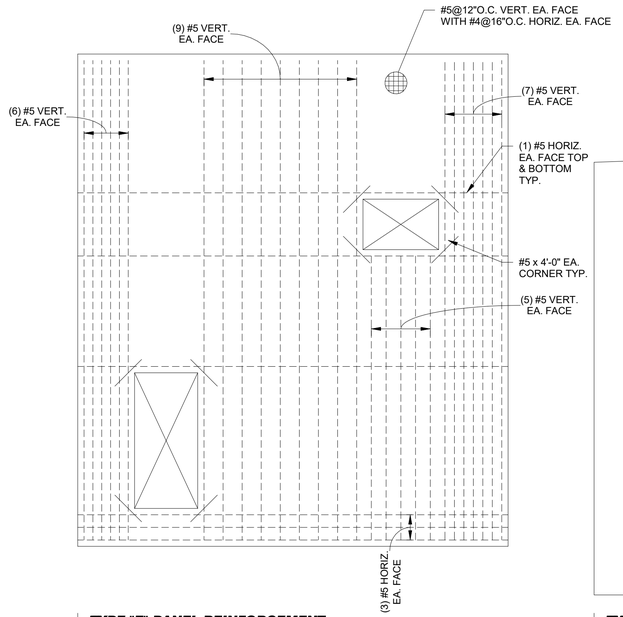
3 ***TYPE "C" PANEL REINFORCEMENT ELEVATION (2 LAYERS)***

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



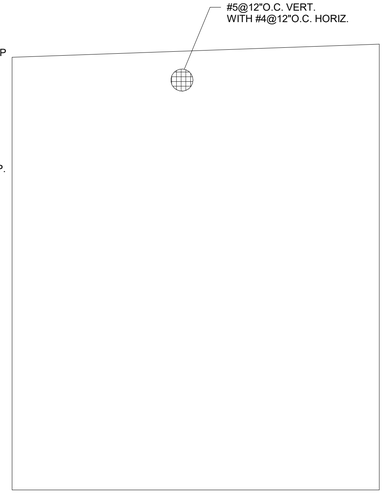
4 ***TYPE "D" PANEL REINFORCEMENT ELEVATION (2 LAYERS)***

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



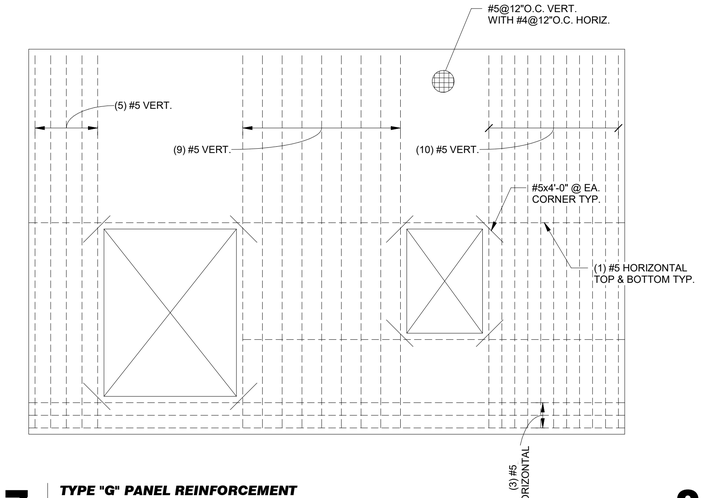
5 ***TYPE "E" PANEL REINFORCEMENT ELEVATION (2 LAYERS)***

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



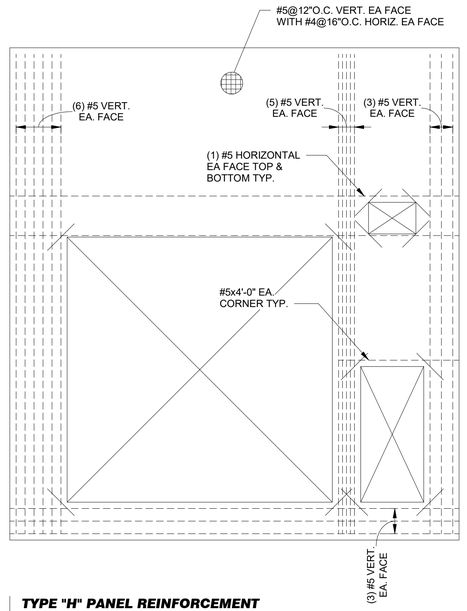
6 ***TYPE "F" PANEL REINFORCEMENT ELEVATION***

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



7 ***TYPE "G" PANEL REINFORCEMENT ELEVATION***

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



8 ***TYPE "H" PANEL REINFORCEMENT ELEVATION (2 LAYERS)***

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

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EXPIRATION DATE 6/30/2020
JOB NO. 190019

REGISTRATION

STATE OF TEXAS
GABRIEL GARZA
90960
REGISTERED PROFESSIONAL ENGINEER
05.10.19

DRAWING HISTORY

No.	DATE	DESCRIPTION
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ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

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PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

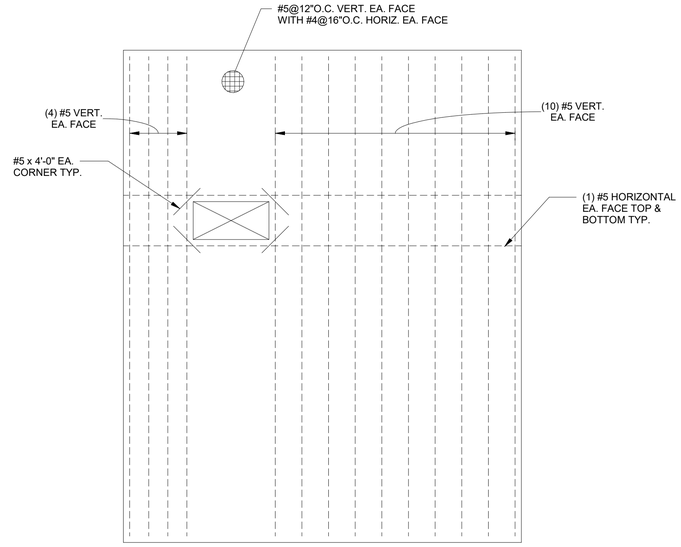
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SHEET TITLE

PANEL REINFORCEMENT ELEVATIONS

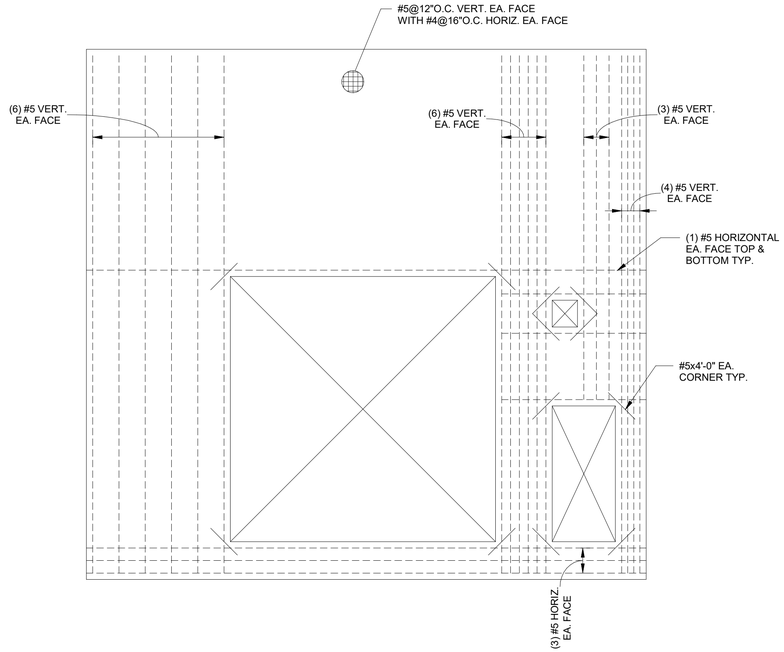
SHEET NUMBER

S3.15



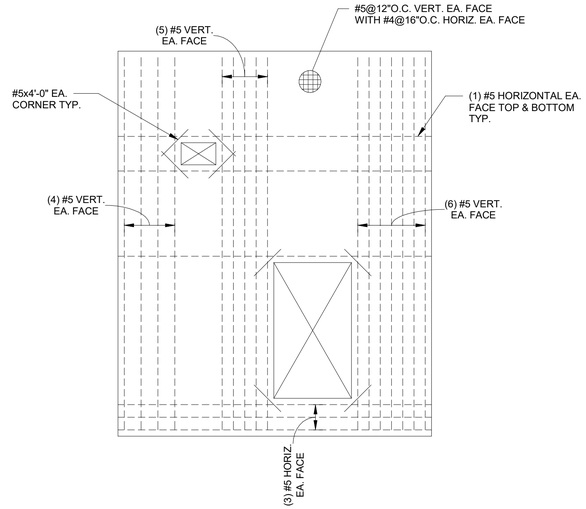
1 ***TYPE "I" PANEL REINFORCEMENT ELEVATION (2 LAYERS)***

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



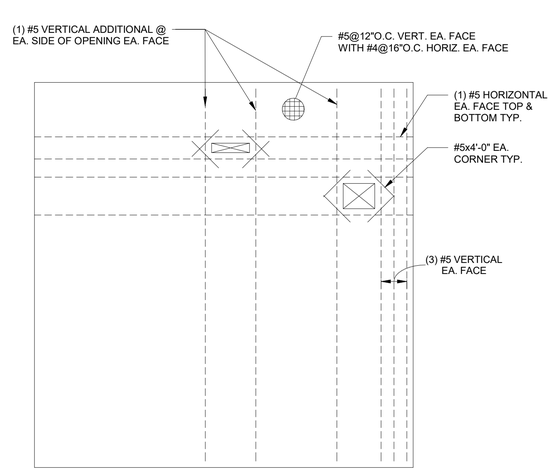
2 ***TYPE "J" PANEL REINFORCEMENT ELEVATION (2 LAYERS)***

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



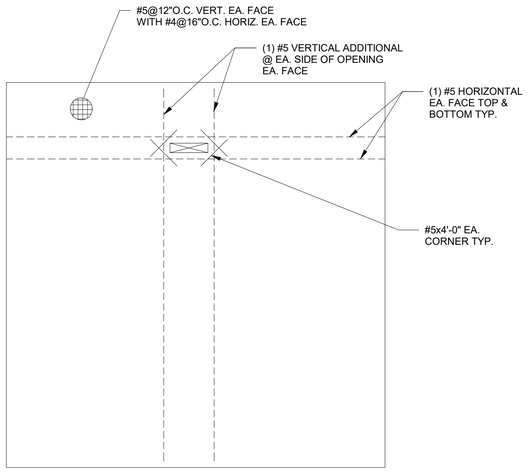
3 ***TYPE "K" PANEL REINFORCEMENT ELEVATION (2 LAYERS)***

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



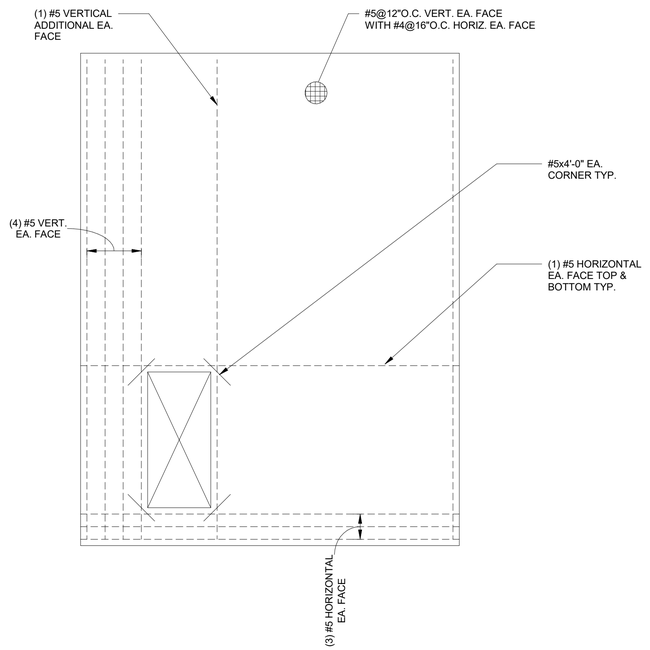
4 ***TYPE "L" PANEL REINFORCEMENT ELEVATION (2 LAYERS)***

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



5 ***TYPE "M" PANEL REINFORCEMENT ELEVATION (2 LAYERS)***

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



6 ***TYPE "N" PANEL REINFORCEMENT ELEVATION (2 LAYERS)***

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

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EXPIRATION DATE 6/30/19
JOB NO. 190019

REGISTRATION

STATE OF TEXAS
GABRIEL GARZA
90960
REGISTERED
05.10.19

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1401 FM 3036
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78382

PGAL PROJECT NUMBER

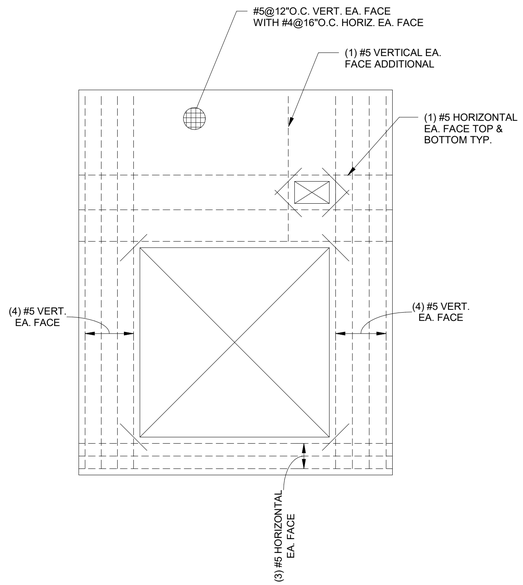
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SHEET TITLE

PANEL REINFORCEMENT ELEVATIONS

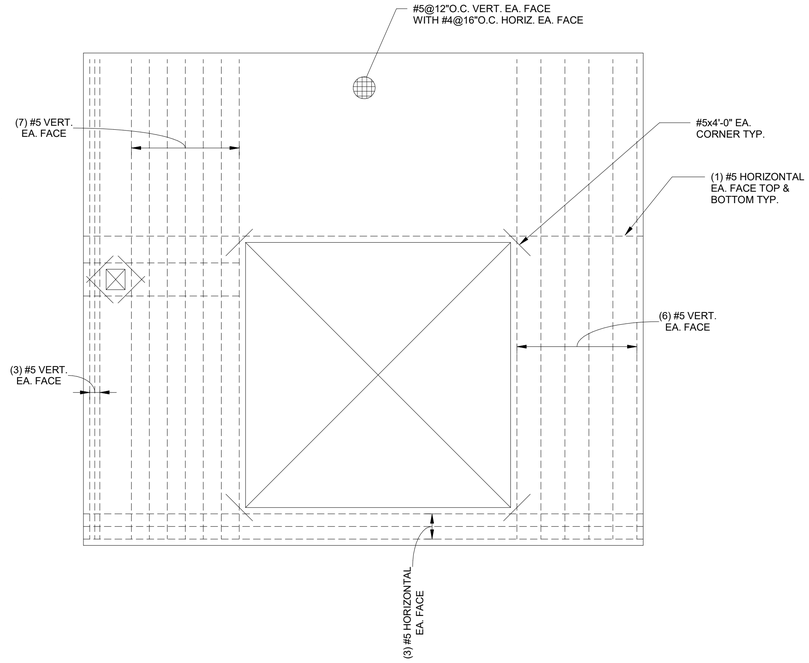
SHEET NUMBER

S3.16



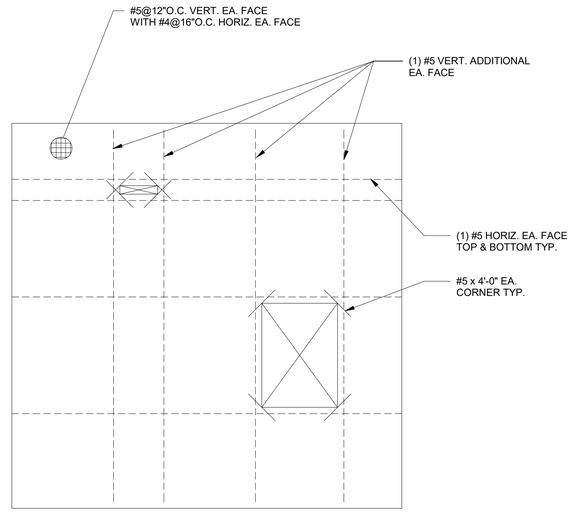
1 TYPE "O" PANEL REINFORCEMENT ELEVATION (2 LAYERS)

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



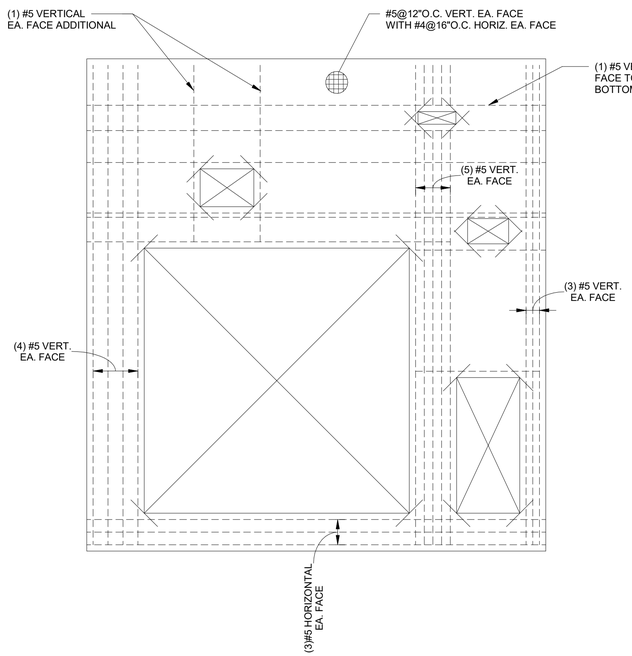
2 TYPE "P" PANEL REINFORCEMENT ELEVATION (2 LAYERS)

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



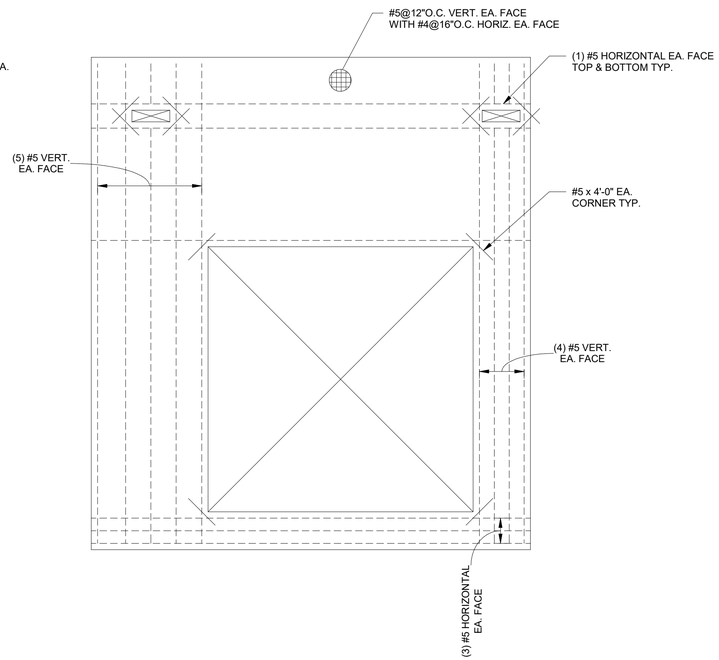
3 TYPE "Q" PANEL REINFORCEMENT ELEVATION (2 LAYERS)

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



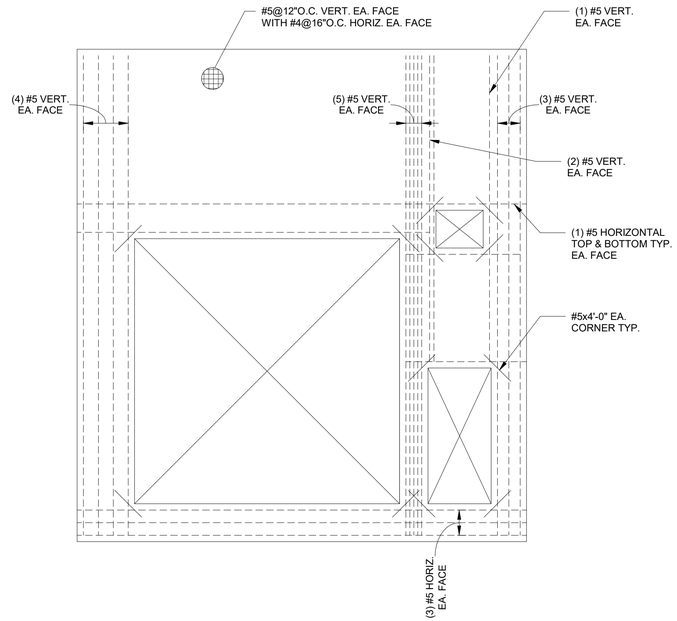
4 TYPE "R" PANEL REINFORCEMENT ELEVATION (2 LAYERS)

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



5 TYPE "S" PANEL REINFORCEMENT ELEVATION (2 LAYERS)

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



6 TYPE "T" PANEL REINFORCEMENT ELEVATION (2 LAYERS)

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

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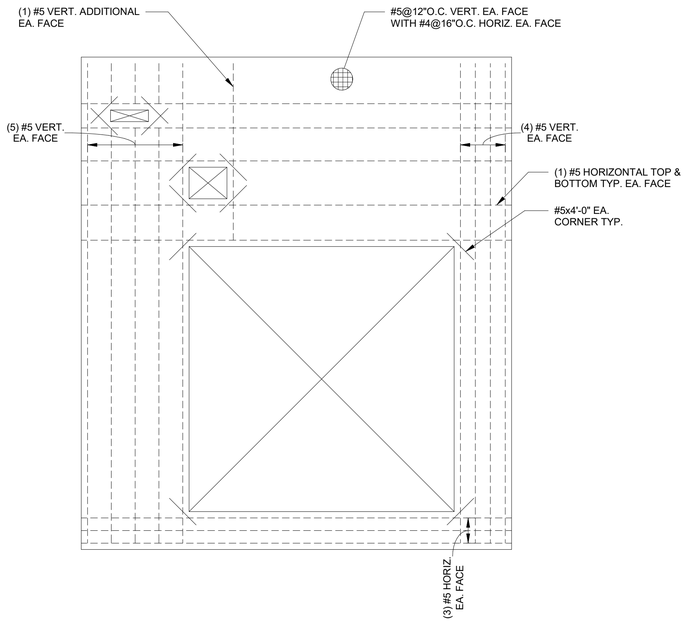
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SHEET TITLE

PANEL REINFORCEMENT ELEVATIONS

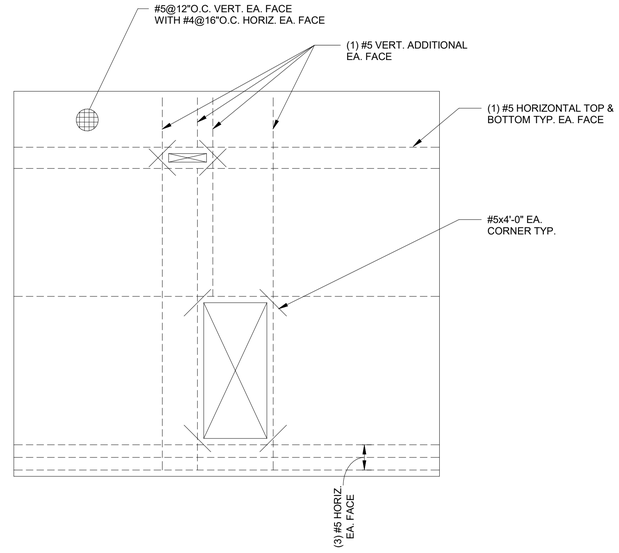
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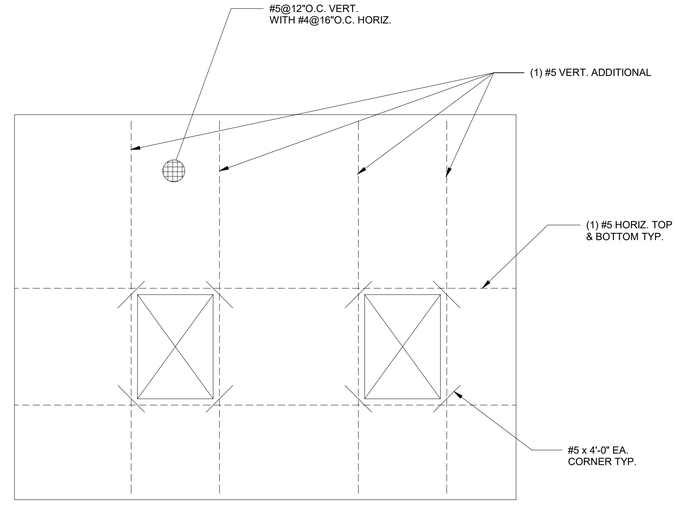
1 ***TYPE "U" PANEL REINFORCEMENT ELEVATION (2 LAYERS)***

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



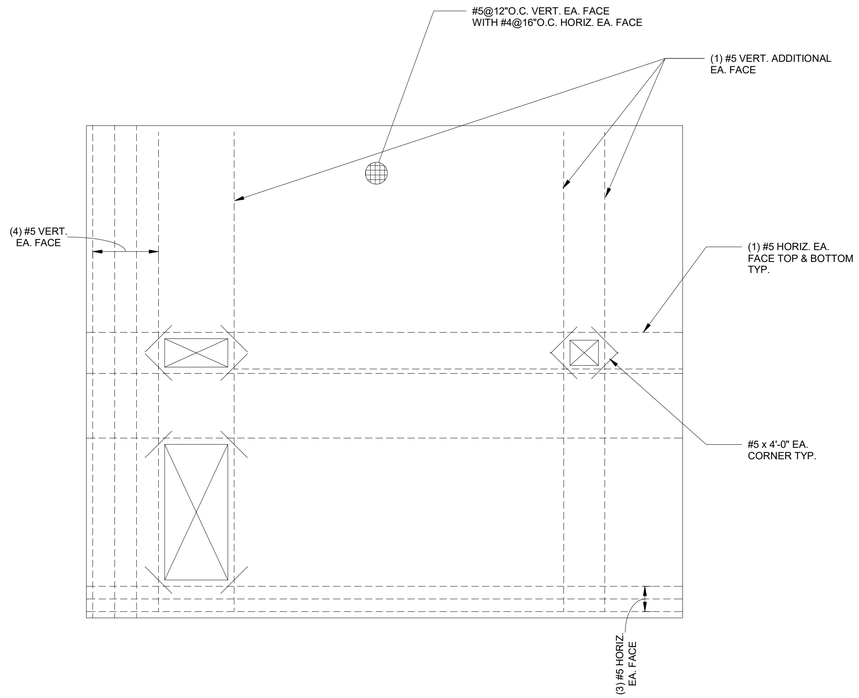
2 ***TYPE "V" PANEL REINFORCEMENT ELEVATION (2 LAYERS)***

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



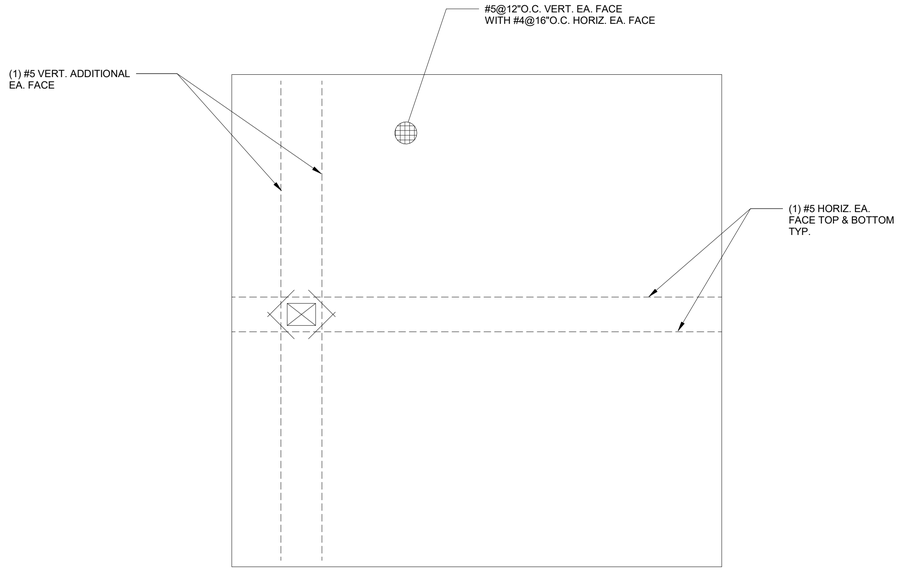
3 ***TYPE "W" PANEL REINFORCEMENT ELEVATION***

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



4 ***TYPE "X" PANEL REINFORCEMENT ELEVATION (2 LAYERS)***

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



5 ***TYPE "Y" PANEL REINFORCEMENT ELEVATION (2 LAYERS)***

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

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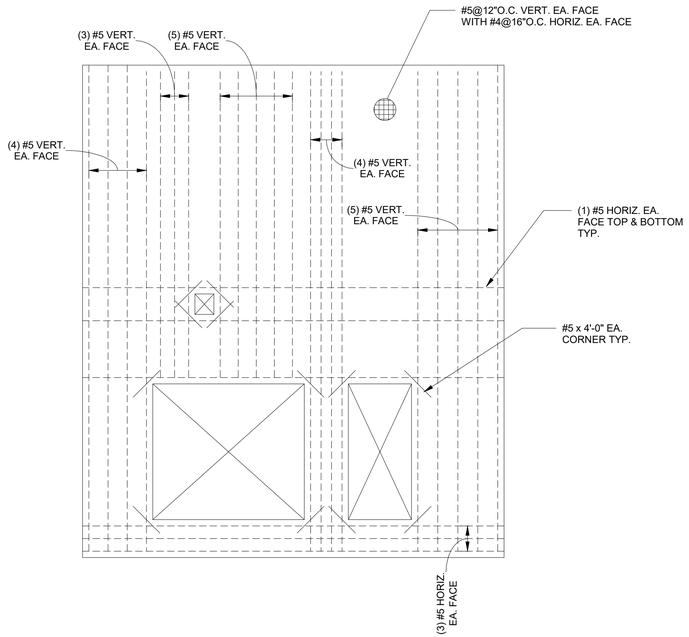
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SHEET TITLE

PANEL REINFORCEMENT ELEVATIONS

SHEET NUMBER

S3.18



1 ***TYPE "Z" PANEL REINFORCEMENT ELEVATION (2 LAYERS)***

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

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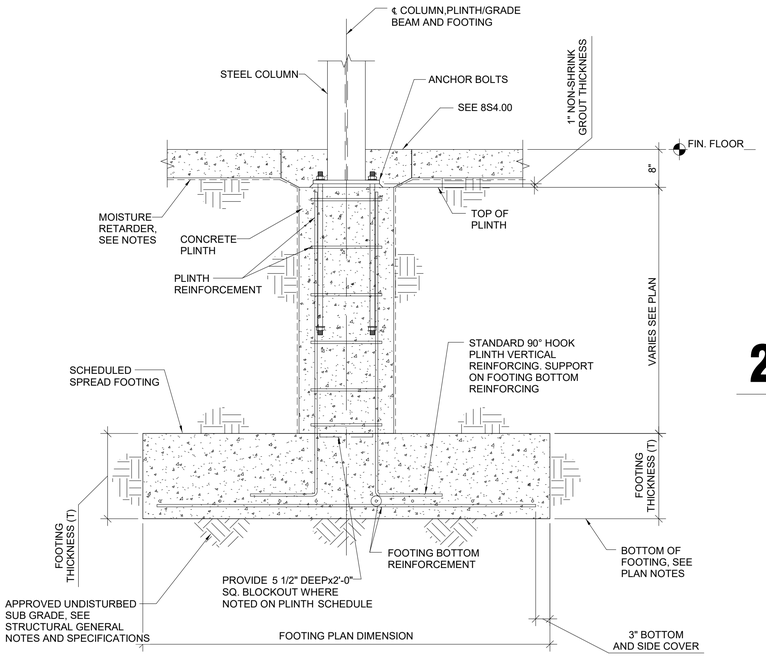
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SHEET TITLE

PANEL REINFORCEMENT ELEVATIONS

SHEET NUMBER

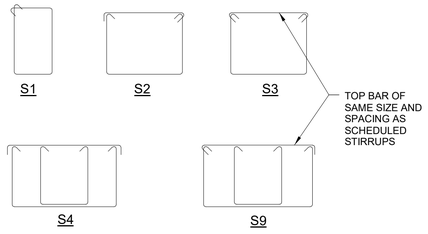
S3.19



NOTES:
1. SEE SCHEDULES FOR PLINTH AND SPREAD FOOTING SIZES AND REINFORCEMENT.
2. SEE PLAN FOR BOTTOM OF SPREAD FOOTING
3. ADDITIONAL SLAB REINFORCEMENT FOR CONSTRUCTION JOINT AROUND COLUMN NOT SHOWN FOR CLARITY REFER TO DETAIL 1S4.00.

1 TYPICAL DETAIL COLUMN ON CONCRETE PLINTH SUPPORTED BY SPREAD FOOTING

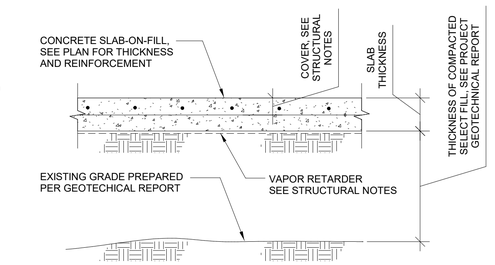
SCALE: 3/4" = 1'-0"



NOTES:
1. ALL HOOKS TO BE FABRICATED AS REQUIRED BY ACI.
2. TOP CAP OF STIRRUPS S2 AND S9 SHALL BE INSTALLED SUCH THAT 135° HOOK END IS NOT ON THE SIDE CONFINED BY THE SLAB.

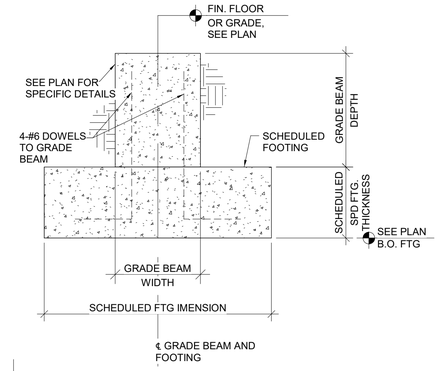
2 TYPICAL STIRRUP TYPES

SCALE: NTS



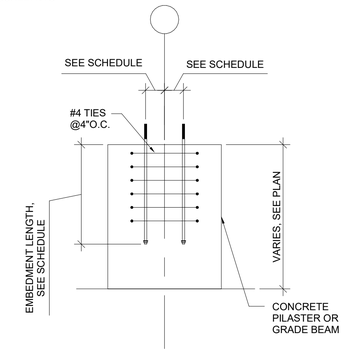
3 TYPICAL DETAIL SUBGRADE PREPARATION SLAB-ON-FILL CONSTRUCTION

SCALE: NTS



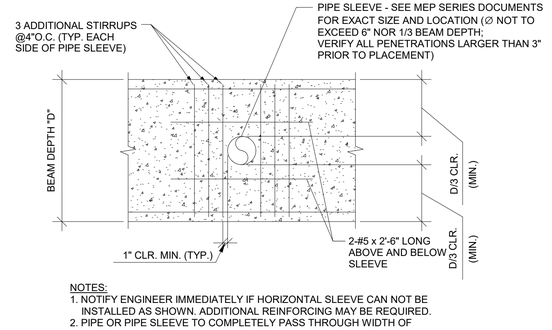
4 TYPICAL GRADE BEAM TO FOOTING DETAIL

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



5 TYPICAL HORIZONTAL GRADE BEAM PENETRATION DETAIL

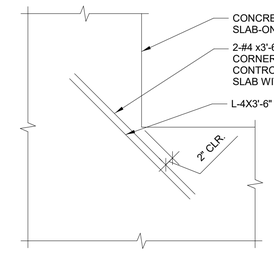
SCALE: NTS



NOTES:
1. NOTIFY ENGINEER IMMEDIATELY IF HORIZONTAL SLEEVE CAN NOT BE INSTALLED AS SHOWN. ADDITIONAL REINFORCING MAY BE REQUIRED.
2. PIPE OR PIPE SLEEVE TO COMPLETELY PASS THROUGH WIDTH OF GRADE BEAM PRIOR TO TURNING VERTICAL, NO EXCEPTIONS.

6 TYPICAL HORIZONTAL GRADE BEAM PENETRATION DETAIL

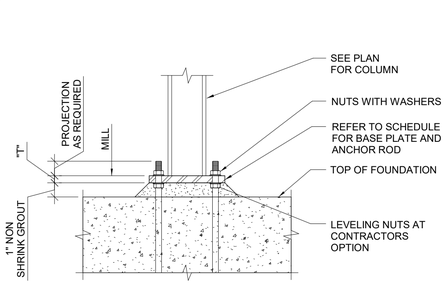
SCALE: NTS



PLAN

7 TYPICAL SLAB-ON-FILL RE-ENTRANT CORNER REINFORCING DETAIL

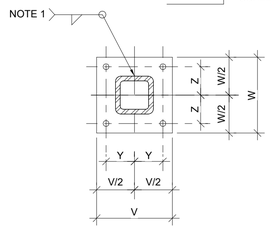
SCALE: NTS



NOTES: THE LETTER "T" DENOTES BASE PLATE THICKNESS.

8 TYPICAL BASE PLATE ELEVATION DETAIL

SCALE: NTS



DETAIL A-4 BOLTS

NOTES:
1. REFER TO BASE PLATE SCHEDULE FOR WELD SIZE.

9 TYPICAL BASE PLATE DETAIL

SCALE: NTS

FOOTING SCHEDULE

MARK	DIMENSIONS			REINFORCING	
	L	W	DEPTH	LONGITUDINAL	TRANSVERSE
F1	8'-0"	8'-0"	1'-8"	10-#6	10-#6
F2	9'-3"	9'-3"	2'-0"	11-#6	11-#6
F3					
F4					

NOTES:
1. SCHEDULED REINFORCEMENT DENOTES BOTTOM BARS UNLESS NOTED OTHERWISE
2. SEE TYPICAL SPREAD FOOTING BAR DIAGRAM FOR LAYERED PLACEMENT OF BARS AS WELL AS DISTRIBUTION OF REINFORCING
3. SEE SHEET S-300 FOR FOOTING F6,F7 AND F8 F'C=5000psi

10 FOOTING SCHEDULE

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

BASE PLATE & ANCHOR ROD SCHEDULE

MARK	BASE PLATE DIMENSIONS					DETAIL	ANCHOR BOLTS / ADHESIVE ANCHORS			BASE PLATE WELD
	V	W	Y	Z	T		NO.	DIA.	EMBED LENGTH	
BP-1	1'-2"	1'-2"	5"	5"	1"	9S4.00	4	3/4"	1'-6"	5/16
							-	-	-	
			-	-			-	-	-	

NOTES:
1. ALL BASE PLATE SHALL BE ASTM A36 GRADE 36.
2. ALL ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 55KSI SUPPLEMENT 2.
3. REFER TO 8S4.02 FOR ADDITIONAL REINFORCEMENT AT COLUMN ANCHOR BOLTS (NO BRACE).

11 BASE PLATE SCHEDULE

SCALE: NTS

COLUMN SCHEDULE

COLUMN MARK	COLUMN SIZE	BASE PLATE
C1	HSS6x6x3/8	BP-1

NOTES:
1. REFER TO 8S4.00 FOR TYPICAL BASE PLATE ELEVATION DETAIL.
2. REFER TO 1S4.01 FOR ANCHOR ROD ELEVATION DETAIL.

12 COLUMN SCHEDULE

SCALE: NTS

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EXPIRATION DATE 1-31-20
JOB NO. 190019

REGISTRATION

STATE OF TEXAS
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LICENSED PROFESSIONAL ENGINEER
05.10.19

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TXDOT PROJECT ID NUMBER

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PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

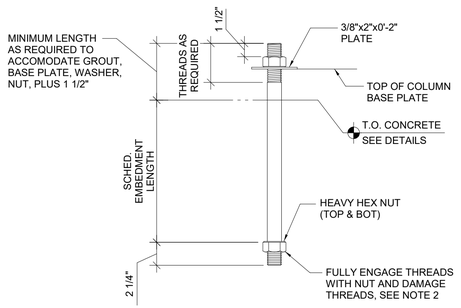
SHEET TITLE

TYP. FOUNDATION DETAILS

SHEET NUMBER

S4.00

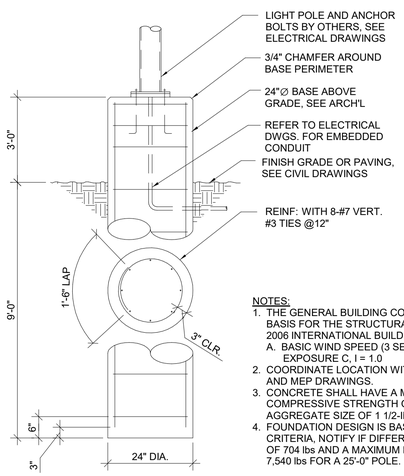
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PLOTTED STAMP: 5/10/2019 10:53:18 AM



NOTES:
1. SEE COLUMN SCHEDULE FOR ANCHOR ROD SIZE.
2. ROD THREADS AT THE EMBEDDED END SHALL BE DAMAGED AT TWO PLACES DIRECTLY BELOW THE HEAVY HEX NUT. TACK WELD MAY BE USED.
3. UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY ASIC AFTER THE CONCRETE IS AT LEAST 14 DAYS OLD.
4. THE HOLE IN THE PLATE WASHER SHALL BE 1/16" LARGER THAN THE BOLT DIAMETER.
5. SEE SPECIFICATIONS AND STRUCTURAL NOTES FOR GROUT REQUIREMENTS

1 TYPICAL ANCHOR ROD DETAIL

SCALE: NTS

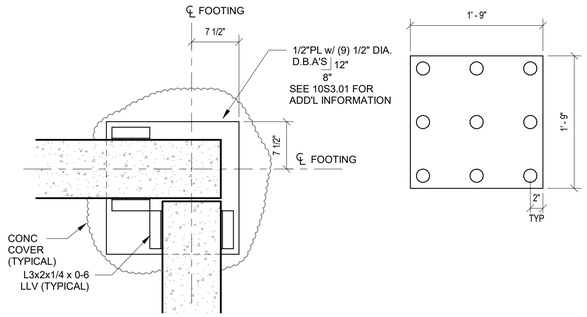


ELEVATION

NOTES:
1. THE GENERAL BUILDING CODE USED AS THE BASIS FOR THE STRUCTURAL DESIGN IS THE 2006 INTERNATIONAL BUILDING CODE WITH
   A. BASIC WIND SPEED (3 SEC) 110 MPH
      EXPOSURE C, I = 1.0
2. COORDINATE LOCATION WITH ARCH'L CIVIL AND MEP DRAWINGS.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 psi, WITH AGGREGATE SIZE OF 1 1/2-INCHES.
4. FOUNDATION DESIGN IS BASED ON FOLLOWING CRITERIA, NOTIFY IF DIFFERENT: BASE SHEAR OF 704 lbs AND A MAXIMUM BASE MOMENT OF 7,540 lbs FOR A 25'-0" POLE.

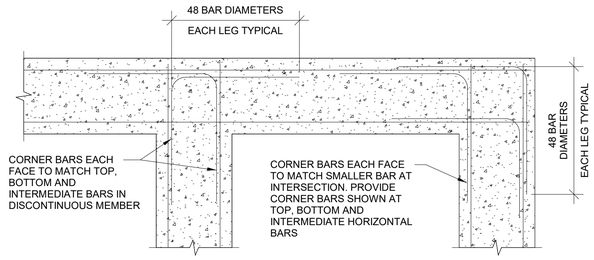
2 TYPICAL LIGHTPOLE FOUNDATION DETAIL

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



5 TYPICAL PANEL BASE CORNER DETAIL

SCALE: NTS

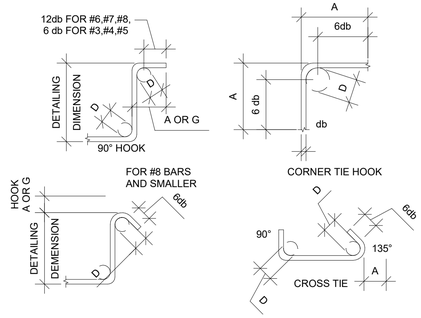


PLAN

NOTES:
1. WHERE 90 DEGREE HOOKS ARE SCHEDULED OR DETAILED FOR TOP AND BOTTOM BARS, CORNER BARS MAY BE OMITTED.
2. MATCH SIZE, LOCATION AND NUMBER OF HORIZONTAL BEAM AND WALL BARS, EXCEPT THAT WHERE THERE ARE MORE THAN 2 TOP OR BOTTOM BARS, ONLY THE INSIDE AND OUTSIDE BARS MUST BE MATCHED.
3. STOP DETAILTED REINF. 2" SHORT OF FORM.

8 TYPICAL CORNER BARS AT WALL OR GRADE BEAM INTERSECTION DETAIL

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

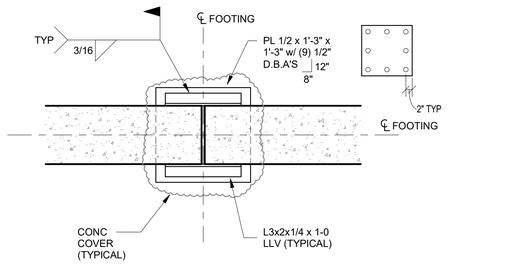


STIRRUP AND TIE HOOK SCHEDULE			
BAR SIZE	D (IN.)	90° HOOK A OR G (IN.)	135° HOOK A OR G (IN.)
#3	1 1/2	4	4
#4	2	4 1/2	4 1/2
#5	2 1/2	6	5 1/2

D= INSIDE DIAMETER OF BEND

6 TYPICAL DETAIL STIRRUP AND TIE HOOK TYPES

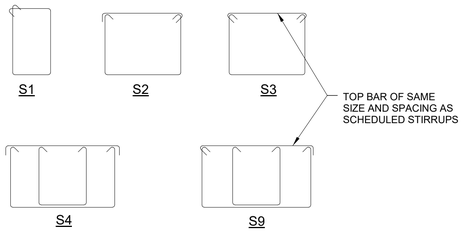
SCALE: 3/4" = 1'-0"



PLAN VIEW

3 TYPICAL PANEL BASE CONNX DETAIL

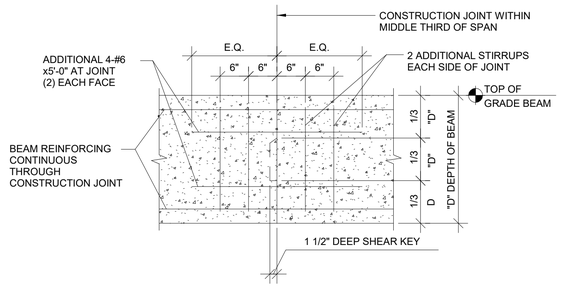
SCALE: NTS



NOTES:
1. ALL HOOKS TO BE FABRICATED AS REQUIRED BY ACI.
2. TOP CAP OF STIRRUPS S2 AND S9 SHALL BE INSTALLED SUCH THAT 135° HOOK END IS NOT ON THE SIDE CONFINED BY THE SLAB.

4 TYPICAL STIRRUP TYPES

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



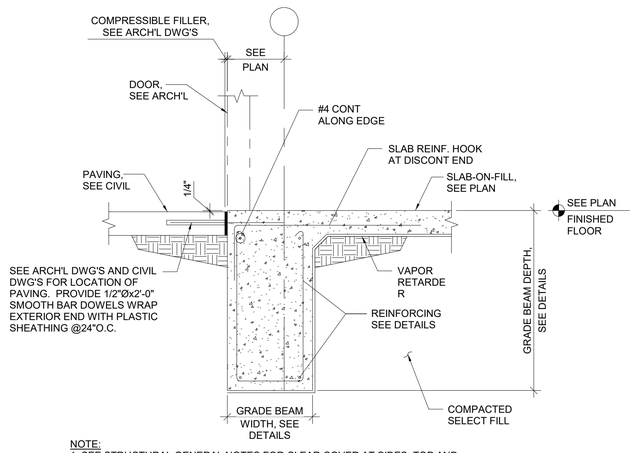
ELEVATION

NOTES:
1. CONTRACTOR TO SUBMIT CONSTRUCTION JOINT LAYOUT AND COORDINATE WITH REINFORCING STEEL.
2. JOINT TO BE LOCATED AT MIDDLE THIRD OF SPAN.
3. THIS DETAIL, APPLIES TO BEAMS ≤ 4'-0" DEPTH.

KEY WIDTH	
GRADE BEAM WIDTH "T"	W
< 12"	3 1/2"
12" TO 16"	5 1/2"
16" TO 20"	7 1/4"
20" TO 24"	9 1/4"
24" TO 30"	11 1/4"

7 TYPICAL BEAM CONSTRUCTION JOINT DETAIL

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



NOTE:
1. SEE STRUCTURAL GENERAL NOTES FOR CLEAR COVER AT SIDES, TOP AND BOTTOM OF BEAM.

9 TYPICAL DETAIL PAVING ATTACHMENT TO PERIMETER FOUNDATION

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

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REGISTRATION

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90960
REGISTERED
05.10.19

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TXDOT PROJECT ID NUMBER

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1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

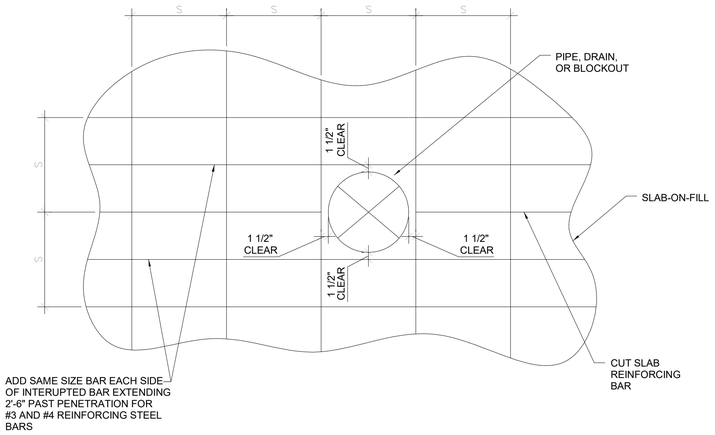
SHEET TITLE

TYP. FOUNDATION DETAILS

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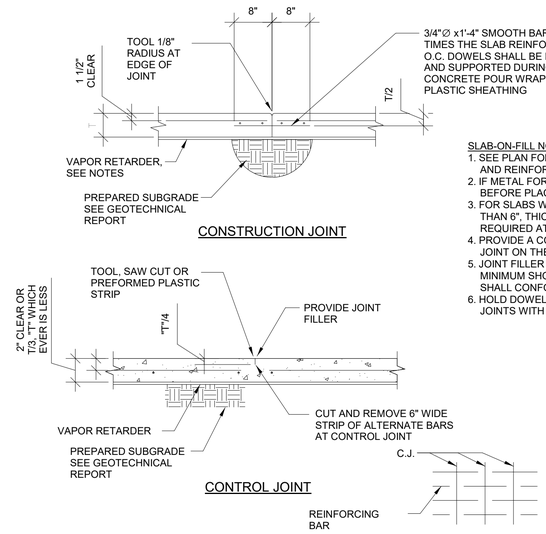
S4.01

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PLOT STAMP: 5/10/2019 10:53:19 AM



1 TYPICAL ADDITIONAL SLAB REINFORCING STEEL DETAIL AT INTERRUPTED BARS AT SLAB-ON-FILL CONSTRUCTION

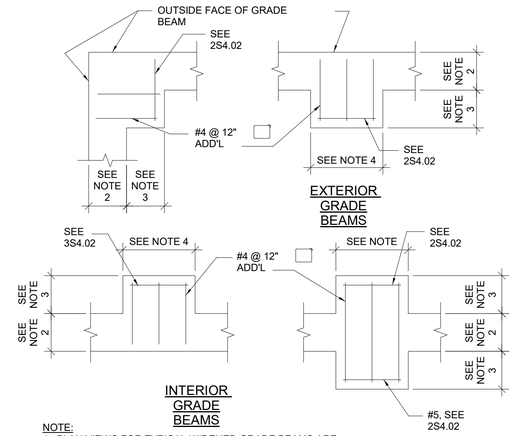
SCALE: 3/4" = 1'-0"



SLAB-ON-FILL NOTES:
1. SEE PLAN FOR THICKNESS OF SLAB (T) AND REINFORCING.
2. IF METAL FORMS ARE USED, REMOVE THEM BEFORE PLACING ADJACENT SLAB.
3. FOR SLABS WITH THICKNESS (T) GREATER THAN 6", THICKENED EDGES ARE NOT REQUIRED AT JOINTS.
4. PROVIDE A CONSTRUCTION OR A CONTROL JOINT ON THE CENTER LINES OF COLUMNS.
5. JOINT FILLER MATERIAL SHALL HAVE A MINIMUM SHORE HARDNESS OF 35 AND SHALL CONFORM TO ASTM D2240
6. HOLD DOWELS IN PLACE AT CONSTRUCTION JOINTS WITH DOWEL BASKETS.

2 TYPICAL SLAB-ON-FILL CONSTRUCTION AND CONTROL JOINT DETAIL

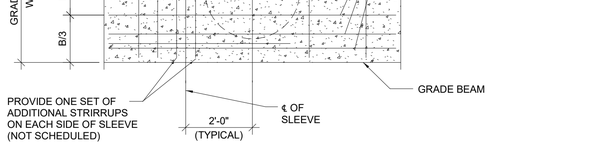
SCALE: 3/4" = 1'-0"

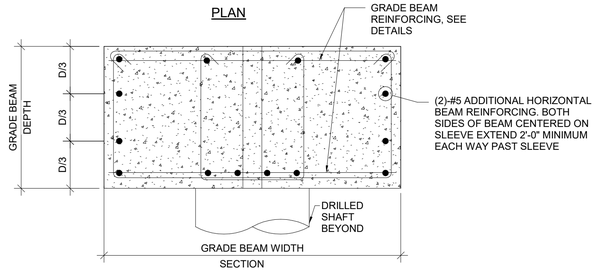


NOTE:
1. PLAN VIEWS FOR TYPICAL WIDENED GRADE BEAMS ARE CONDITION NOT SHOWN, SEE 2S4.02.
2. SEE DETAILS FOR GRADE BEAM WIDTH.
3. GRADE BM WIDTH OR 1'-2" WHICH EVER IS GREATER.
4. WIDTH TO BE 2'-4" OR 2 TIMES GRADE BEAM THICKNESS.

3 TYPICAL DETAIL ADDITIONAL BARS AT WIDENED GRADE BEAM (PLAN VIEW) AT COLUMNS

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

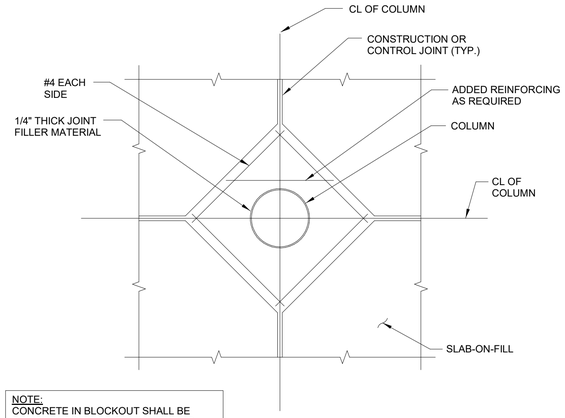




NOTES:
1. REQUIRED BEAM SLEEVES ARE TO BE COORDINATED WITH MEP CONTRACTORS. REQUIRED SLEEVES MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS. GENERAL CONTRACTOR SHALL SUBMIT PLAN SHOWING LAYOUT OF ALL SLEEVES.
2. SLEEVES SHALL BE LOCATED ON THE BEAM CENERLINE OR AT LEAST WITHIN THE MIDDLE THIRD OF THE GRADE BEAM WIDTH.
3. CONTINUOUS BEAM REINFORCING MAY BE SLIGHTLY DISPLAY (3" MAXIMUM) OR ADJACENT BARS BUNDLED (2 BAR BUNDLE MAXIMUM) TO FACILITATE SLEEVE INSTALLATION.
4. SLEEVES OCCURRING ON OPPOSITE SIDES OF A PIER MUST BE IN LINE.
5. THE OUTSIDE DIAMETER OF A SLEEVE MAY NOT EXCEED 15% OF THE WIDTH OF THE GRADE BEAM THROUGH WHICH IT MUST PASS. THE CONTRACTOR SHALL CONTACT THE ENGINEER OF THE RECORD FOR DIRECTIONS WHEN A SLEEVE SIZE OR LOCATION DOES NOT MEET THE CONDITIONS ESTABLISHED ABOVE.
6. SLEEVE OR PIPE MUST COMPLETELY PASS THROUGH BEAM DEPTH PRIOR TO TURNING HORIZONTAL, NO EXCEPTIONS.

4 TYPICAL DETAIL VERTICAL PENETRATION, CONCRETE GRADE BEAM

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

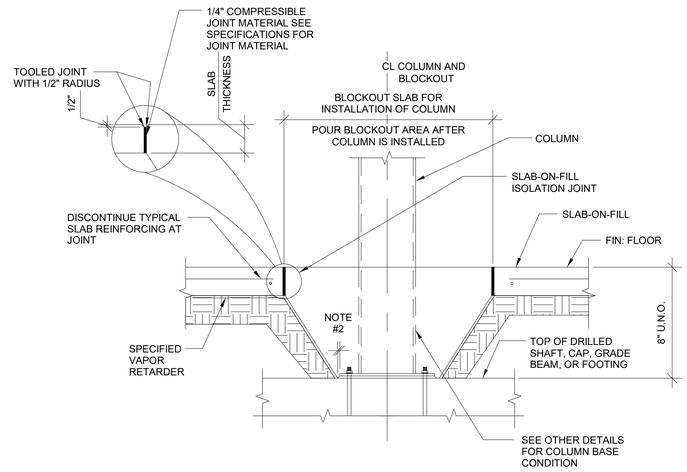


NOTE:
CONCRETE IN BLOCKOUT SHALL BE REINFORCED TO BE EQUIVALENT TO SPECIFIED PROJECT SLAB REINFORCING BUT MAXIMUM SPACING SHALL NOT EXCEED 12"

NOTES:
1. GENERAL CONTRACTOR TO COORDINATE REQUIRED SIZE OF BLOCKOUT FOR STRUCTURAL STEEL COLUMNS WITH STEEL ERECTOR. SUBMIT THE DESIRED BLOCKOUT SIZE TO ARCHITECT/ENGINEER FOR APPROVAL.
2. PROVIDE 3" MINIMUM CONCRETE COVER ALL AROUND COLUMN, AND BASE
3. CONSTRUCTION JOINTS AND REINFORCING MUST BE INSTALLED AS IF BLOCKOUT FOR COLUMN WAS TO OCCUR. CONTRACTOR MAY FLOAT FORM AND POUR AT ONE TIME HOWEVER, SAW CUTS MAY NOT EXTEND BEYOND DIAMOND CONSTRUCTION JOINTS.

5 TYPICAL DETAIL SLAB-ON-FILL BLOCKOUT AROUND COLUMNS

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



PLOT NAME: C:\REVIT PROJECTS\OSCAR MENDEZ - 190019 - TX DOT Maintenace PGAL (RVT 19').rvt
PLOT STAMP: 5/10/2019 10:53:20 AM

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ENGINEER
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78382

PGAL PROJECT NUMBER

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SHEET TITLE

TYP. FOUNDATI0N DETAILS

SHEET NUMBER

S4.02

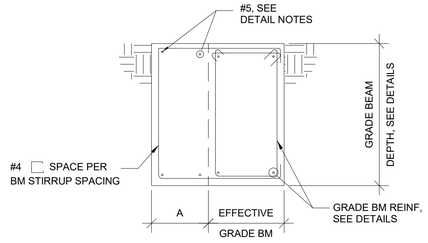
PLINTH SCHEDULE					
PLINTH MARK	PLAN SIZE W	PLAN SIZE D	VERTICAL REINFORCEMENT	TIES	REMARKS
PL1	30	30	16-#7	#4 TIES @ 12"O.C.	

NOTES:

1. SEE DETAILS 8 AND 3S3.02 FOR ADD'L INFORMATION
2. PROVIDE CLASS B TENSION LAP ON TIES

1 ***TYPICAL DETAIL RECTANGULAR PLINTH SCHEDULE***

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

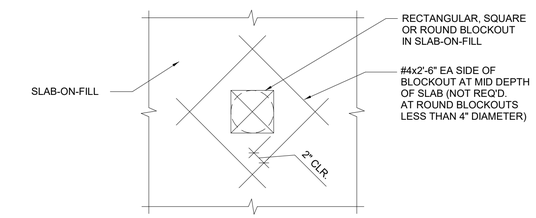


NOTES:

1. ADDITIONAL REINFORCING REQUIRED FOR BEAMS WIDENED BY 3" OR MORE.
2. FOR A < 6" PROVIDE 1-#5 CONT. TOP AND BOTTOM
3. FOR 6" ≤ A ≤ 14" PROVIDE 2-#5 CONT. TOP AND BOTTOM.
4. NOTIFY ENGINEER IF A IS GREATER THAN 14"

2 ***TYPICAL WIDENED GRADE BEAM DETAIL***

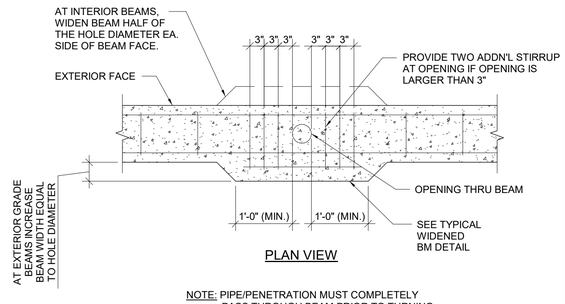
SCALE: 3/4" = 1'-0"



PLAN

3 ***TYPICAL ADDITIONAL REINFORCING AT BLOCKOUT IN SLAB-ON-FILL DETAIL***

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

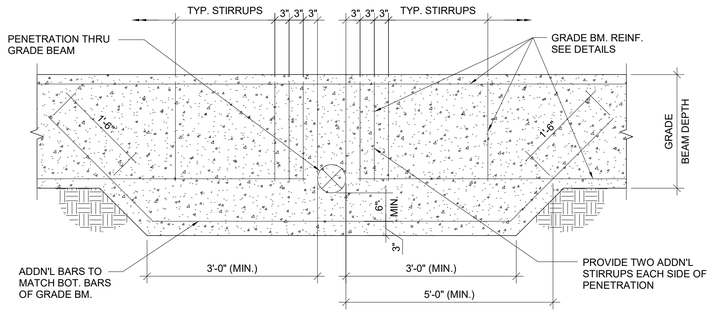


PLAN VIEW

NOTE: PIPE/PENETRATION MUST COMPLETELY PASS THROUGH BEAM PRIOR TO TURNING

4 ***TYPICAL DETAIL VERTICAL PENETRATION THRU GRADE BEAM LARGER THAN 15% OF THE GRADE BEAM WIDTH***

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



ELEVATION VIEW

NOTE: PIPE/PENETRATION MUST COMPLETELY PASS THROUGH BEAM PRIOR TO TURNING

5 ***TYPICAL DETAIL HORIZONTAL PENETRATION OPENING THRU GRADE BEAM AT BOTTOM LONGITUDINAL REINFORCEMENT***

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

TENSION LAP SPLICES - CLASS B FOR TOP & BOTTOM BARS (GRADE 60 UNCOATED BARS-NORMAL WEIGHT CONCRETE)						
BAR SIZE	F'c=3000 psi		F'c=4000 psi		F'c=5000 psi	
	ld TOP	ld BOT	ld TOP	ld BOT	ld TOP	ld BOT
#3	2'-4"	1'-9"	2'-0"	1'-6"	1'-10"	1'-5"
#4	3'-1"	2'-4"	2'-8"	2'-1"	2'-5"	1'-10"
#5	3'-10"	3'-0"	3'-4"	2'-7"	3'-0"	2'-4"
#6	4'-8"	3'-7"	4'-0"	3'-1"	3'-7"	2'-9"
#7	6'-9"	5'-2"	5'-10"	4'-6"	5'-3"	4'-0"
#8	7'-9"	5'-11"	6'-8"	5'-2"	6'-0"	4'-7"
#9	8'-8"	6'-8"	7'-6"	5'-9"	6'-9"	5'-2"
#10	9'-10"	7'-6"	8'-6"	6'-6"	7'-7"	5'-10"
#11	10'-11"	8'-4"	9'-5"	7'-3"	8'-5"	6'-6"

NOTE:
FOR CLASS "A" SPLICE (PERMITTED ONLY WHEN NOT MORE THAN HALF THE BARS SPLICED & SPICES STAGGERED BY THE THE DISTANCE OF SPLICE LENGTH), USE SAME AS "ld" = TENSION DEVELOPMENT LENGTH TABLE.

6 ***TENSION LAP SPLICES - CLASS B FOR TOP AND BOTTOM BARS***

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

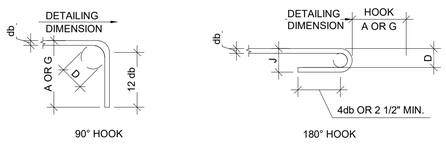
"ld" TENSION DEVELOPMENT LENGTH FOR BEAM, SLAB & WALL REBARS (GRADE 60 UNCOATED BARS-NORMAL WEIGHT CONCRETE)						
BAR SIZE	F'c=3000 psi		F'c=4000 psi		F'c=5000 psi	
	ld TOP	ld BOT	ld TOP	ld BOT	ld TOP	ld BOT
#3	1'-9"	1'-4"	1'-6"	1'-2"	1'-5"	1'-1"
#4	2'-4"	1'-10"	2'-1"	1'-7"	1'-10"	1'-5"
#5	3'-0"	2'-3"	2'-7"	2'-0"	2'-4"	1'-9"
#6	3'-7"	2'-9"	3'-1"	2'-4"	2'-9"	2'-1"
#7	5'-2"	4'-0"	4'-6"	3'-6"	4'-0"	3'-1"
#8	5'-11"	4'-7"	5'-2"	3'-11"	4'-7"	3'-6"
#9	6'-8"	5'-2"	5'-9"	4'-5"	5'-2"	4'-0"
#10	7'-6"	5'-10"	6'-6"	5'-0"	5'-10"	4'-6"
#11	8'-4"	6'-5"	7'-3"	5'-7"	6'-6"	5'-0"

NOTES:

1. "TOP" BARS ARE HORIZONTAL REBAR WITH MORE THAN 12 IN. OF FRESH CONCRETE CAST BELOW THE BARS AT THE DEVELOPMENT LENGTH.
2. "ld" FOR #3 & #4 BARS IN SLAB OR WALL ARE CONSERVATIVE & MAY BE REDUCED TO 0.75 TIMES (FOR #3 BARS) AND 0.94 TIMES (FOR #4 BARS) FROM THE TABULATED VALUES.
3. FOR LIGHT-WEIGHT CONCRETE MULTIPLY THE TABULATED VALUES BY 1.3.

7 ***TENSION DEVELOPMENT LENGTH FOR BEAM, SLAB AND WALL REBAR***

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

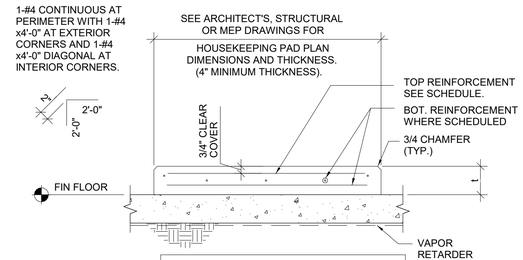


RECOMMENDED END HOOKS, ALL GRADES				
BAR SIZE	FINISHED BEND DIAMETER D. (IN.)	180° HOOK		90° HOOK
		A OR G,(IN.)	J. (IN.)	A OR G,(IN.)
#3	2 1/2	5	3	6
#4	3	6	4	8
#5	3 3/4	7	5	10
#6	4 1/2	8	6	12
#7	5 1/2	10	7	14
#8	6	11	8	16
#9	9 1/2	15	11 3/4	19
#10	10 1/2	17	13 1/4	22
#11	12	19	14 3/4	24
#14	18 1/2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

D= INSIDE DIAMETER OF BEND

8 ***TYPICAL DETAIL END HOOK TYPES***

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



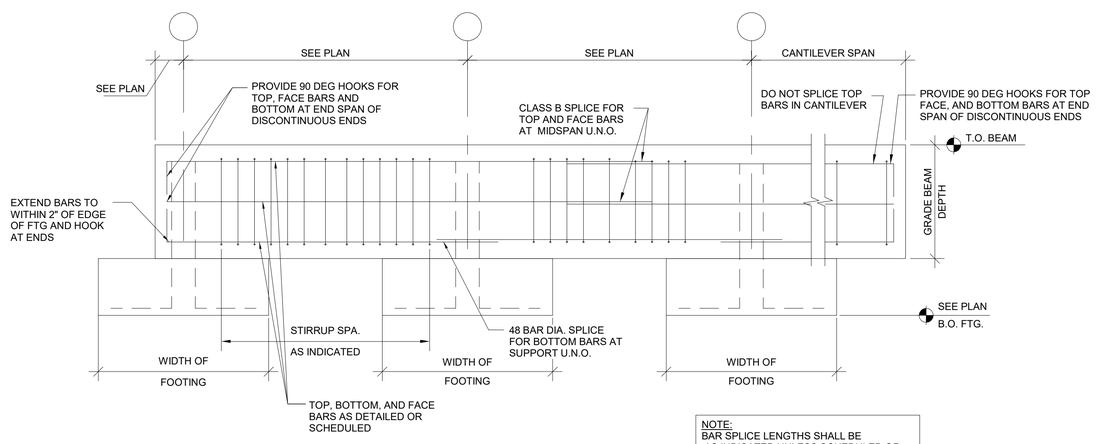
HOUSEKEEPING PAD REINFORCING SCHEDULE		
t, PAD THICKNESS	TOP REINFORCING	BOTTOM REINFORCING
4"-6"	4x4 W4xW4	NONE
7"-8"	4"x4" W5.5xW5.5	NONE
9"-12"	#4@12"EW	#3@18"EW
13"-16"	#4@12"EW	#4@12"EW

NOTES:

1. GENERAL CONTRACTOR TO DETERMINE REQUIREMENTS FOR HOUSEKEEPING PADS OVER SLAB-ON-FILL AND PROVIDE WHERE REQUIRED WHETHER SHOWN ON DRAWINGS OR NOT. COORDINATE DIMENSIONS AND OTHER SPECIAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER AS REQUIRED.

9 ***TYPICAL DETAIL CONCRETE HOUSEKEEPING PAD OVER SLAB-ON-FILL***

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



NOTE:
BAR SPLICE LENGTHS SHALL BE AS INDICATED UNLESS SCHEDULED OR NOTED OTHERWISE.

10 ***GRADE BEAM REINFORCING TYPICAL DETAIL***

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

FILENAME: C:\REVIT PROJECTS\OSCAR MENDEZ - 190019 - TX DOT Maintenace PGAL (RVT 19').rvt
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FIRM NO. T-9351
EXPIRATION DATE 8/31/2020
JOB NO. 190019

REGISTRATION

STATE OF TEXAS
GABRIEL GARZA
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REGISTERED PROFESSIONAL ENGINEER
05.10.19

DRAWING HISTORY

No.	DATE	DESCRIPTION
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PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

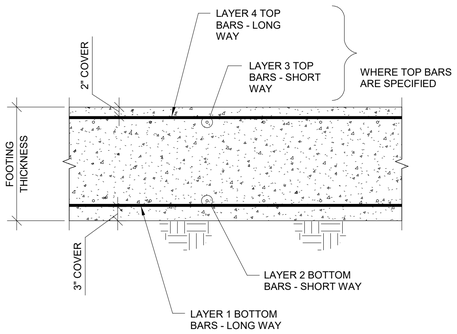
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SHEET TITLE

TYP. FOUNDATION DETAILS

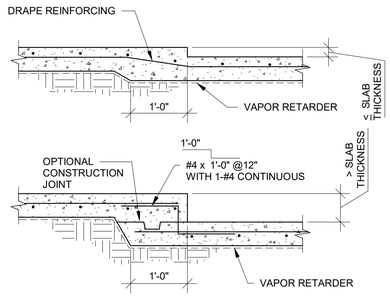
SHEET NUMBER

S4.03



1 TYPICAL DETAIL BAR LAYER DIAGRAM RECTANGULAR SPREAD FOOTING

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

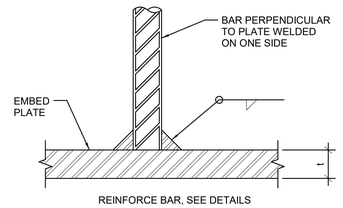


NOTES:
1. COORDINATE DEPTH AND LOCATION OF DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.
2. PROVIDE 1-#4 x4'-0" TOP AT INTERIOR CORNERS OF DEPRESSION, SEE 10S3.02 SIMILAR.

2 TYPICAL SLAB-ON-FILL DEPRESSION DETAIL

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

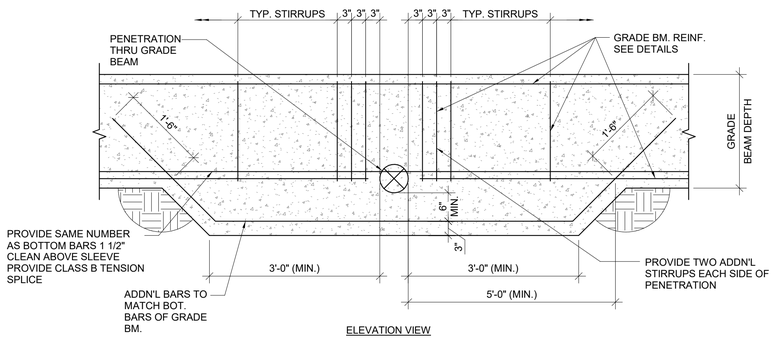
BAR SIZE	NOMINAL WELD SIZE (in.)
3	1/4
4	5/16
5	3/8
6	7/16
7	1/2
8	9/16
9	5/8



NOTES:
1. TABLE IS FOR E70 ELECTRODES.
2. WELDABLE ASTM A706 REINFORCING STEEL: Fy = 60 ksi.
3. D.B.A.: Fy = 70 ksi.
4. t DENOTES THICKNESS AT PLATE, SEE DETAILS.
5. SEE DETAIL 7S4.03 FOR STANDARD/HOOKS.

3 TYPICAL DETAIL FILLET WELD SIZE DEVELOP REINFORCING BARS

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

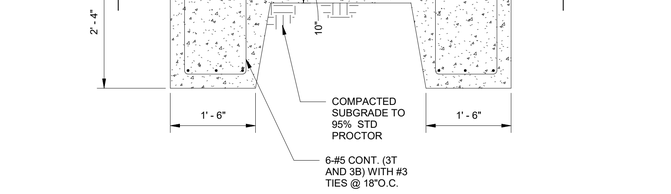


ELEVATION VIEW

NOTE: PIPE/PENETRATION MUST COMPLETELY PASS THROUGH BEAM PRIOR TO TURNING

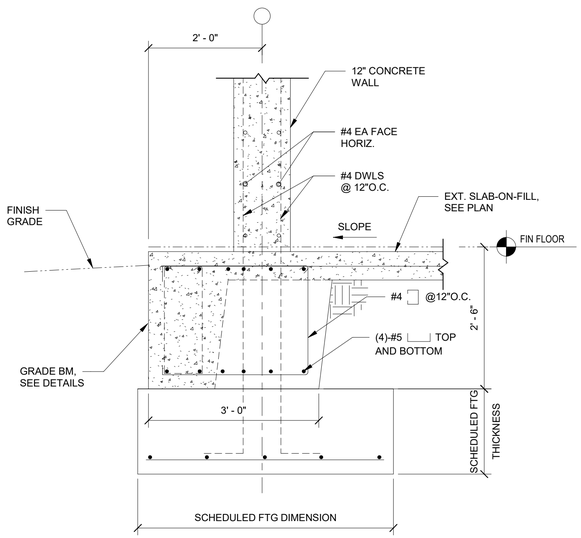
4 TYPICAL DETAIL HORIZONTAL PENETRATION OPENING THRU GRADE BEAM AT BOTTOM LONGITUDIAL REINFORCEMENT

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



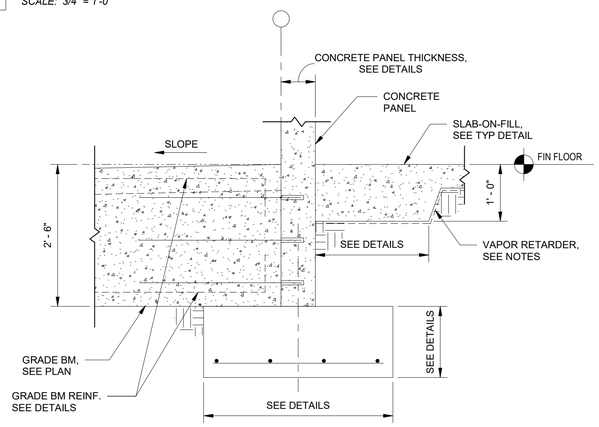
5 TYPICAL GENERATOR PAD DETAIL

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



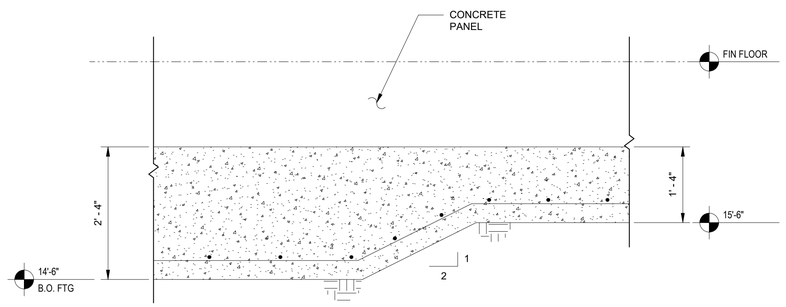
6 TYPICAL GENERATOR PAD DETAIL

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



7 TYPICAL GENERATOR PAD DETAIL

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



8 TYPICALSTEP IN STRIP FOOTING DETAIL

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

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EXPIRATION DATE 12/31/19
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REGISTRATION



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1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

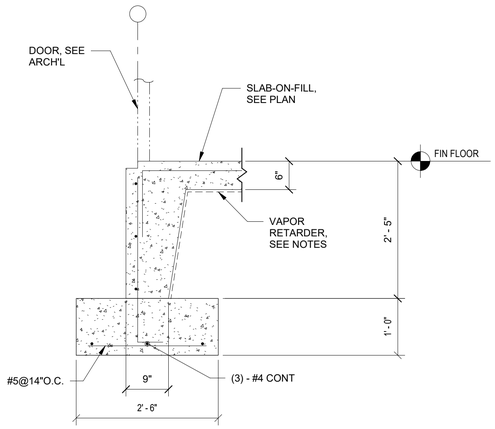
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TYP. FOUNDATION DETAILS

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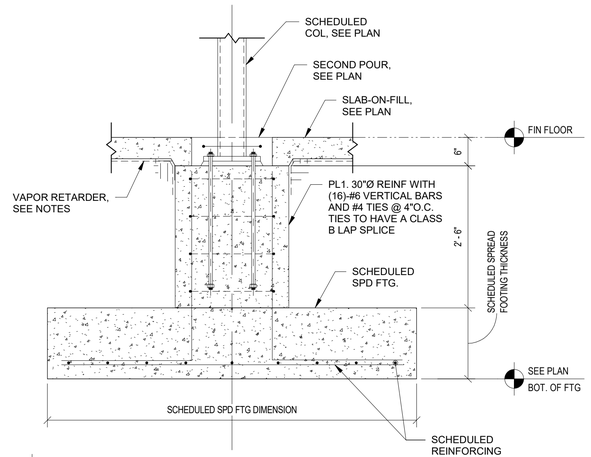
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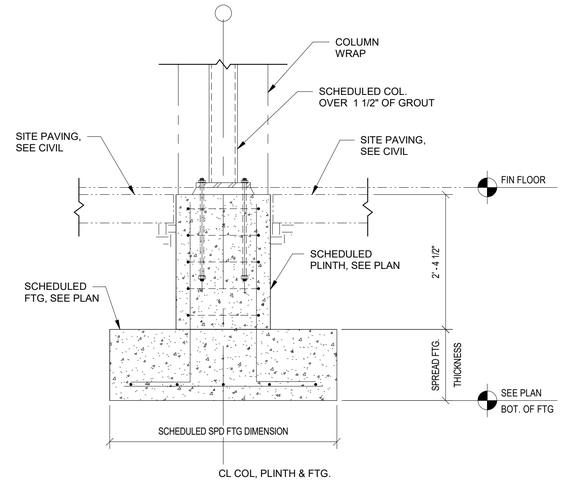
1 ***DETAIL***

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



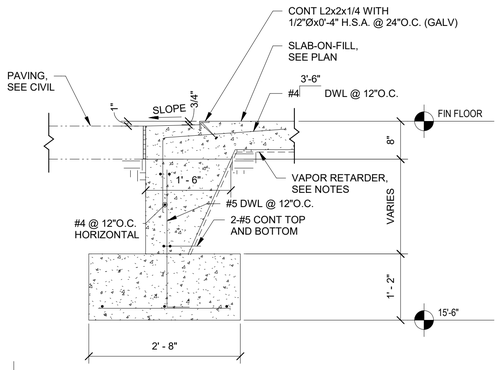
2 ***DETAIL***

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



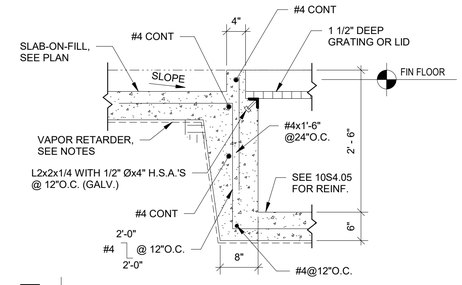
3 ***DETAIL***

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



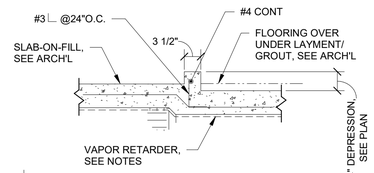
4 ***DETAIL***

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



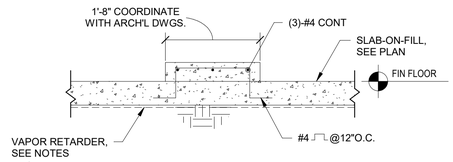
5 ***TYPICAL DRAINAGE DETAIL AT WASH BAY***

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



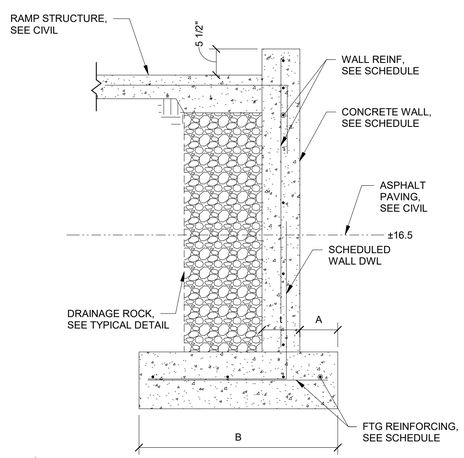
6 ***TYPICAL DETAIL AT SHOWER DEPRESSIONS***

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



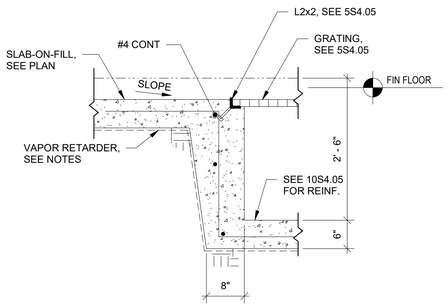
7 ***TYPICAL DETAIL AT LOCKER ROOMS***

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



8 ***DETAIL***

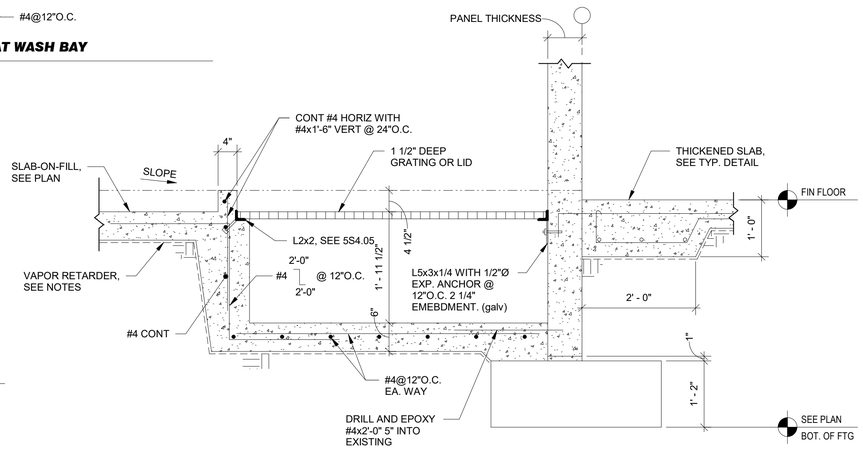
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NOTE: SEE 5S405 FOR REINF.

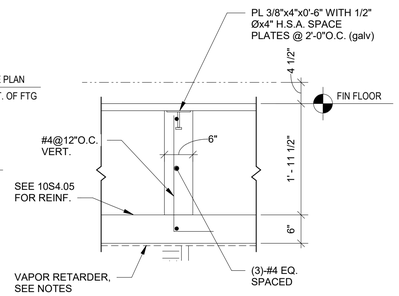
9 ***TYPICAL DRAINAGE DETAIL AT WASH BAY***

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



10 ***TYPICAL DRAINAGE DETAIL AT WASH BAY***

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



11 ***DETAIL***

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

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05.10.19

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1401 FM 3036
ROCKPORT, TX
78382

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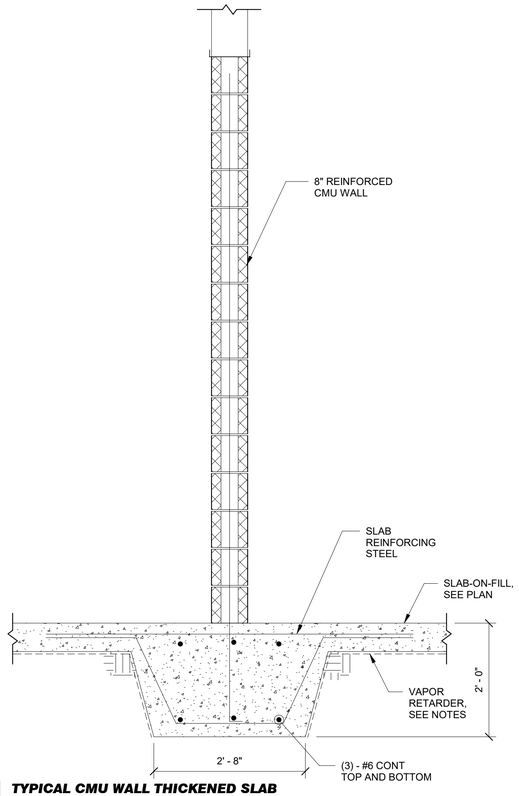
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SHEET TITLE

FOUNDATION DETAILS

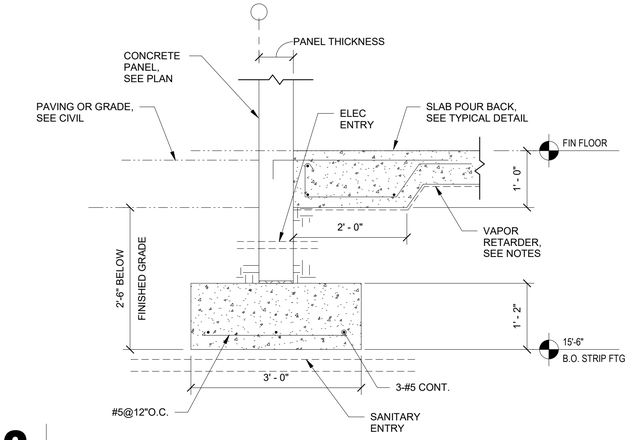
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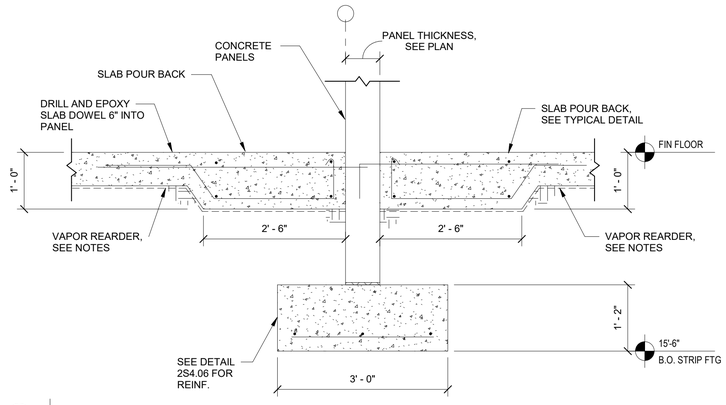
1 TYPICAL CMU WALL THICKENED SLAB DETAIL

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



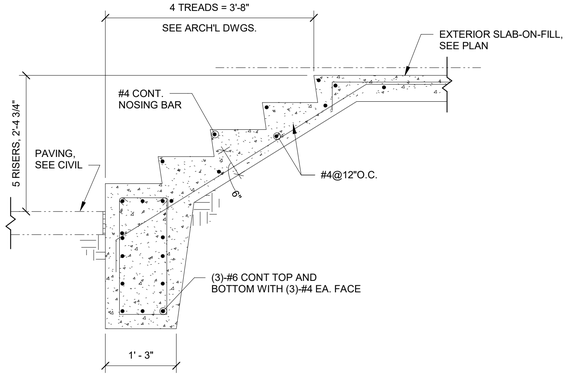
2 TYPICAL PERIMETER DETAIL

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



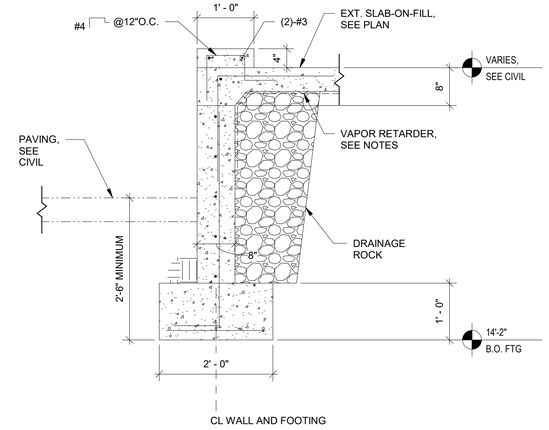
3 TYPICAL PERIMETER DETAIL

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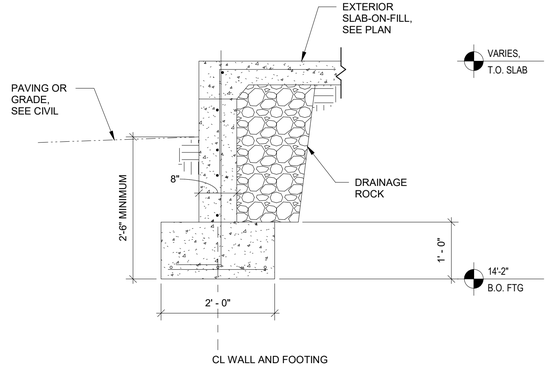
4 DETAIL

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



5 DETAIL

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



6 DETAIL

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

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REGISTRATION

STATE OF TEXAS
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REGISTERED
05.10.19

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78382

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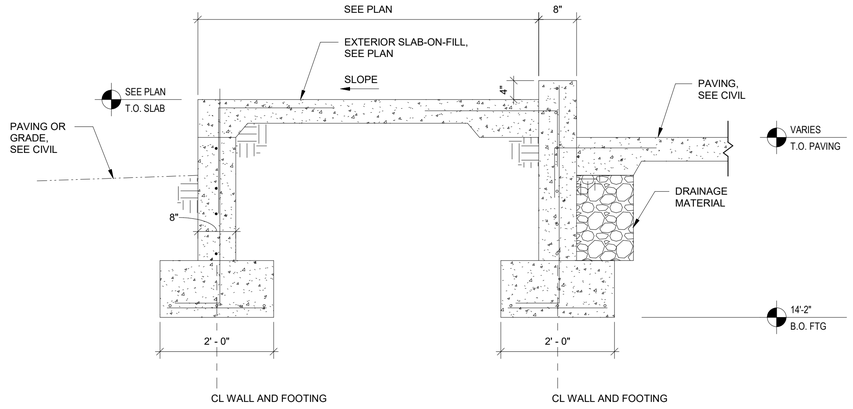
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SHEET TITLE

FOUNDATION DETAILS

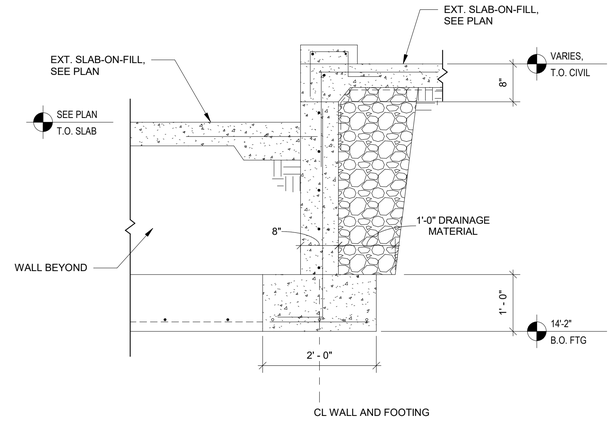
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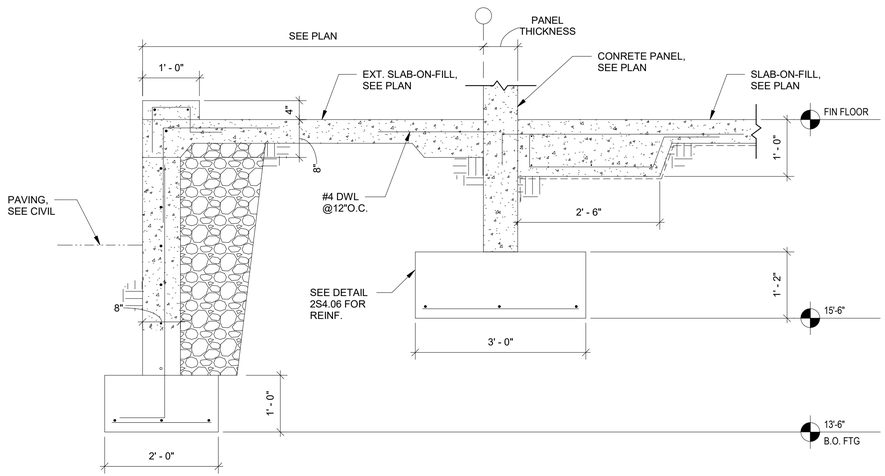
1 **DETAIL**

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



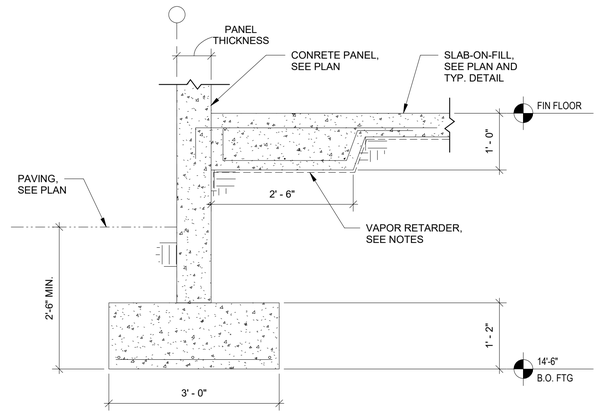
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SCALE: 3/4" = 1'-0"



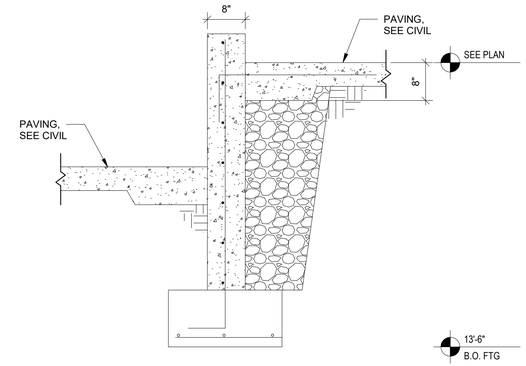
3 **DETAIL**

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



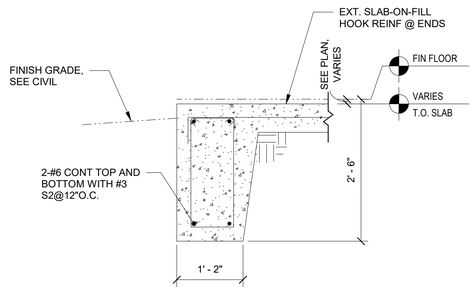
4 **DETAIL**

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



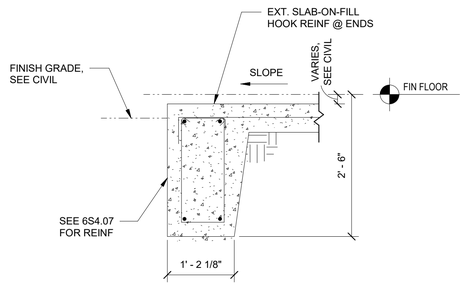
5 **DETAIL**

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



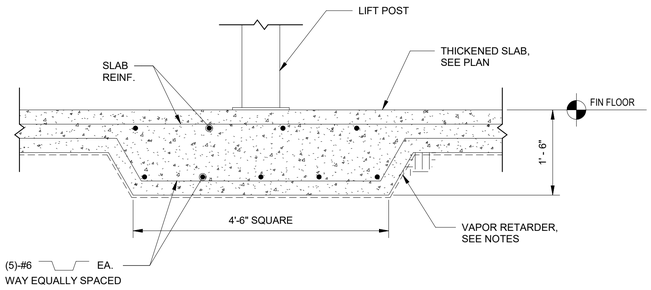
6 **DETAIL**

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



7 **DETAIL**

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



8 **TYPICAL LIFT POST DETAIL**

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

PLOT NAME: C:\REVIT PROJECTS\OSCAR MENDEZ - 190019 - TX DOT Maintenace PGAL (RVT 19').rvt
PLOT STAMP: 5/10/2019 10:53:27 AM

CLIENT

Texas Department of Transportation

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FIRM NO. T-9331
EXPIRES 6/30/2020
JOB NO. 190019

REGISTRATION

STATE OF TEXAS
GABRIEL GARZA
90960
REGISTERED
05.10.19

DRAWING HISTORY

No.	DATE	DESCRIPTION
	3-12-2019	ISSUE FOR 95% CD REVIEW
	5-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

000000000

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

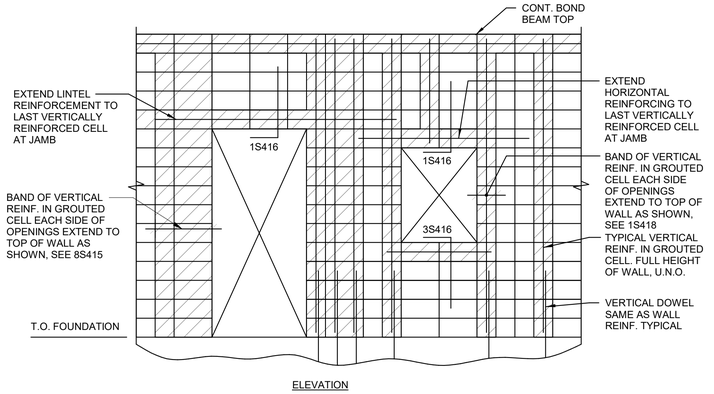
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SHEET TITLE

FOUNDATION DETAILS

SHEET NUMBER

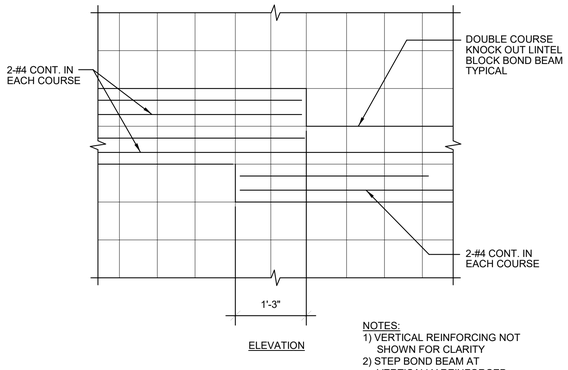
S4.07



ELEVATION

1 CMU WALL REINFORCING ELEVATION DETAIL

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

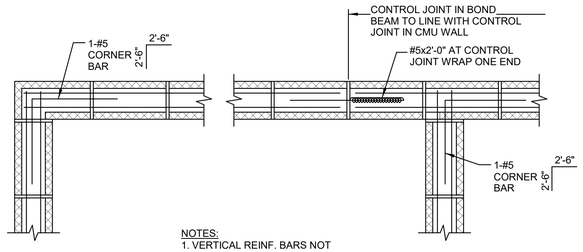


ELEVATION

NOTES:
1) VERTICAL REINFORCING NOT SHOWN FOR CLARITY
2) STEP BOND BEAM AT VERTICALLY REINFORCED CELL.

2 TYPICAL STEP IN BOND BEAM DETAIL

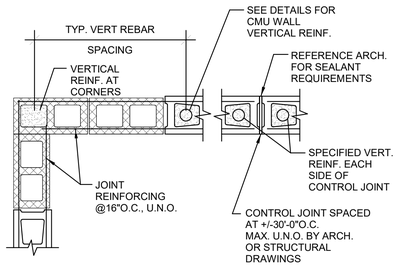
SCALE: 3/4" = 1'-0"



NOTES:
1. VERTICAL REINF. BARS NOT SHOWN FOR CLARITY.
2. GROUT NO SHOWN FOR CLARITY.

3 TYPICAL CORNER BARS AT BOND BEAM DETAIL

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



4 TYPICAL CMU BAR PLACEMENT DETAIL

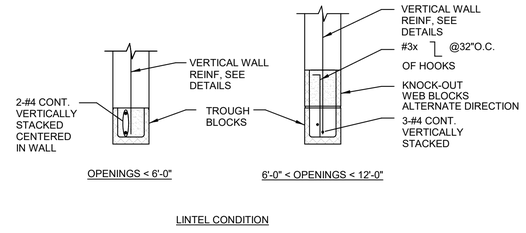
SCALE: 3/4" = 1'-0"

BAR SIZE	LAP LENGTH (INCHES)
#3	18
#4	24
#5	30
#6	36
#7	42
#8	48
#9	54
#10	61
#11	68

NOTES:
1. THE LAP SPLICE LENGTH TABLE SHALL BE USED FOR ALL REINFORCED C.M.U. PILASTERS BOND BEAMS, AND WALLS ETC. UNLESS NOTED OTHERWISE IN THE DETAILS.
2. ALL SPLICE LENGTHS ARE IN INCHES.
3. FOR MEMBERS WHERE ADJACENT BARS ARE SEPARATED BY 3 INCHES OR LESS, PROVIDE THE SPECIFIED LAP STAGGERED BY AT LEAST THE LAP LENGTH SPECIFIED IN THE TABLE.
4. SEE STRUCTURAL GENERAL NOTES FOR C.M.U. f.m.

5 TYPICAL DETAIL TENSION LAP SPLICE LENGTHS SCHEDULE-REINFORCED CMU

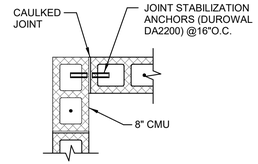
SCALE: 3/4" = 1'-0"



LINTEL CONDITION

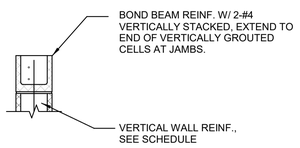
6 TYPICAL CMU LINTEL DETAIL HEAD OF DOOR/WINDOW

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



7 TYPICAL UNBONDED CMU WALL INTERSECTION

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



6" CMU SILL DETAIL A

8 TYPICAL DETAIL WINDOW SILL

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

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FIRM NO. T-9351
EXPIRATION DATE 7/31/19
JOB NO. 190019

REGISTRATION



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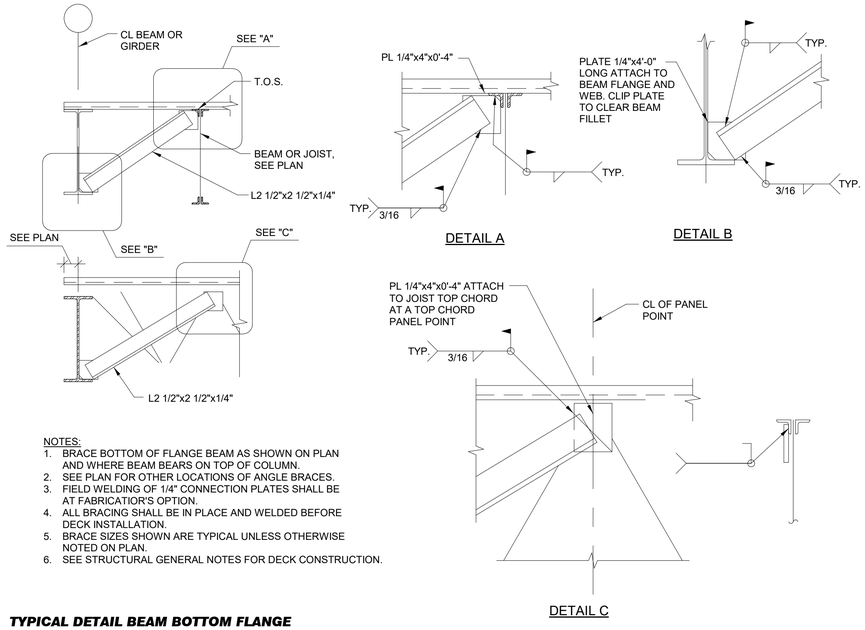
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SHEET TITLE

CMU TYPICAL DETAILS

SHEET NUMBER

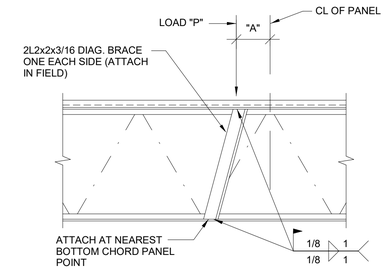
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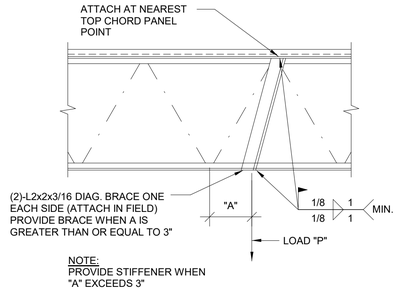
NOTES:
1. BRACE BOTTOM OF FLANGE BEAM AS SHOWN ON PLAN AND WHERE BEAM BEARS ON TOP OF COLUMN.
2. SEE PLAN FOR OTHER LOCATIONS OF ANGLE BRACES.
3. FIELD WELDING OF 1/4" CONNECTION PLATES SHALL BE AT FABRICATION'S OPTION.
4. ALL BRACING SHALL BE IN PLACE AND WELDED BEFORE DECK INSTALLATION.
5. BRACE SIZES SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED ON PLAN.
6. SEE STRUCTURAL GENERAL NOTES FOR DECK CONSTRUCTION.

1 TYPICAL DETAIL BEAM BOTTOM FLANGE BRACE

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



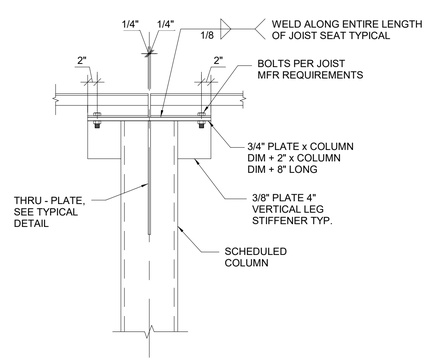
LOAD ON TOP CHORD



NOTE:
PROVIDE STIFFENER WHEN "A" EXCEEDS 3"

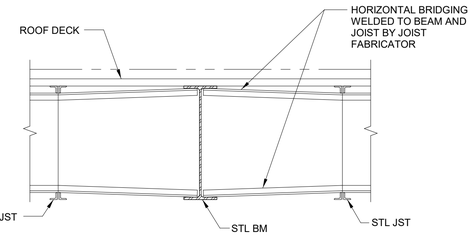
2 TYPICAL DETAIL STIFFENING OF STEEL JOIST FOR CONCENTRATED LOADS

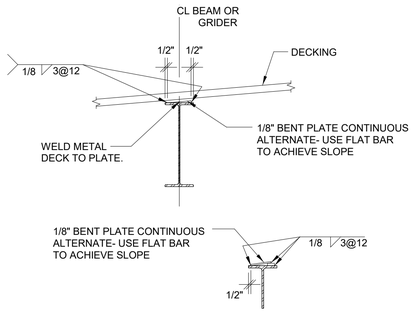
SCALE: 3/4" = 1'-0"



3 TYPICAL JOIST TO COLUMN CONNECTION DETAIL JOIST ON EACH SIDE OF COLUMN

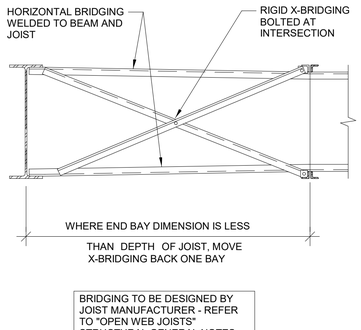
SCALE: 3/4" = 1'-0"





4 TYPICAL DETAIL SLOPING METAL DECK SUPPORT ON ROOF BEAM WITH VERTICAL WEB

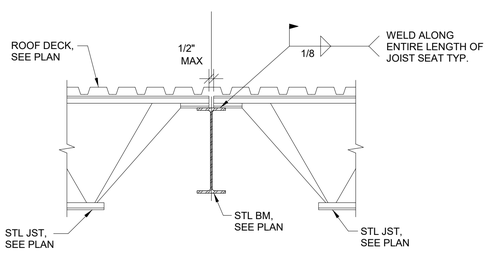
SCALE: 3/4" = 1'-0"



BRIDGING TO BE DESIGNED BY JOIST MANUFACTURER - REFER TO "OPEN WEB JOISTS" STRUCTURAL GENERAL NOTES

5 TYPICAL CROSS-BRIDGING AT END BAY FOR K & KCS SERIES JOISTS DETAIL

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



NOTES:
1. REFER TO ARCH'L DWGS FOR ROOF CONSTRUCTION.
2. WHEN WIDTH OF BM IS LESS THAN 5" STAGGER JOISTS TO PROVIDE BEARING.

6 TYPICAL KCS OR K SERIES STEEL JOIST BEARING ON INTERIOR BEAM DETAIL

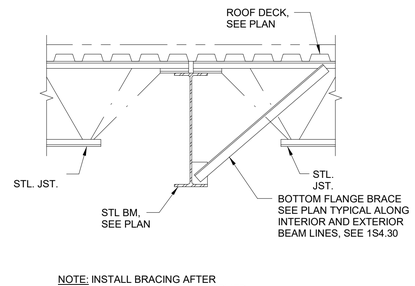
SCALE: 3/4" = 1'-0"

7 TYPICAL BEAM PARALLEL TO JOISTS DETAIL

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

8 TYPICAL WELDED DOUBLE ANGLE CONNECTION DETAIL

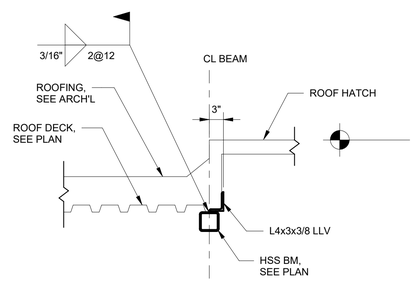
SCALE: 3/4" = 1'-0"



NOTE: INSTALL BRACING AFTER ROOF DEAD LOAD HAS BEEN APPLIED

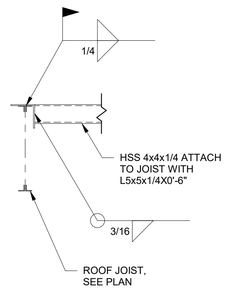
9 TYPICAL BOTTOM FLANGE BRACE AT JOIST ROOF

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



10 DETAIL

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



11 TYPICAL ROOF HATCH SUPPORT CONNECTION DETAIL

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

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FIRM NO. T-9351
EXPIRATION DATE 12/31/19
JOB NO. 190019

REGISTRATION

STATE OF TEXAS
GABRIEL GARZA
90960
LICENSED PROFESSIONAL ENGINEER
05.10.19

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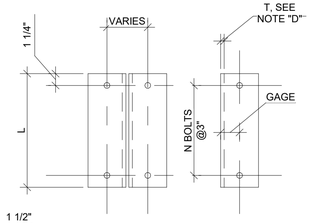
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SHEET TITLE

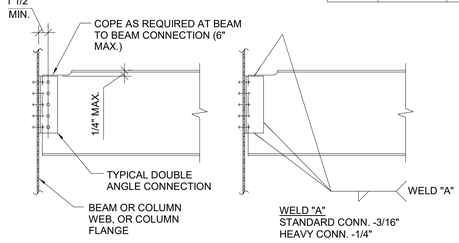
TYPICAL ROOF DETAILS

SHEET NUMBER

S4.30



BEAM SIZE	STANDARD ANGLE LENGTH (L)	STANDARD NO. OF ROWS OF BOLTS (N)	STANDARD MAX. BEAM REACTION (KIPS)
W8	5 1/2"	2	48
W10	5 1/2"	2	48
W12	8 1/2"	3	76
W14	8 1/2"	3	76
W16	11 1/2"	4	101
W18	14 1/2"	5	125
W21	17 1/2"	6	160
W24	17 1/2"	6	160



BOLTED/BOLTED CONNECTION

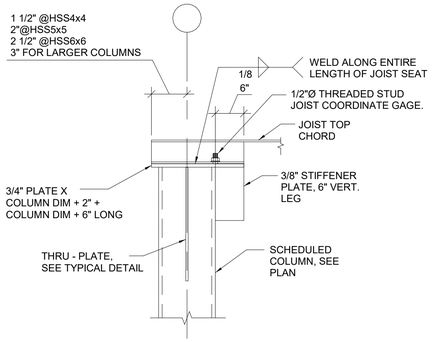
WELD "A"
STANDARD CONN. -3/16"
HEAVY CONN. -1/4"

BOLTED/WELDED CONNECTION

NOTES:
- A. RIGHT ANGLE CONNECTIONS SHALL BE DOUBLE ANGLE AS SCHEDULED.
- B. NOTED REACTIONS ARE FOR FACTORED LOADS.
- C. REFER TO "STRUCTURAL STEEL CONNECTIONS" STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFORMATION.
- D. MINIMUM CONNECTION: ANGLE THICKNESS IS 1/4" TYPICAL.
- E. BOLTS ARE 3/4"Ø TYPICAL BOLTS ARE A325N.
- F. BEAM CONNECTIONS ARE "STANDARD" U.N.O. ON PLAN.
- G. FABRICATOR SHALL CHECK DESIGN OF ALL BEAMS REQUIRING COPES GREATER THAN SHOWN IN DETAIL BASED ON REACTIONS SHOWN IN TABLE. CONNECTION ANGLES, BOLTS AND WELDS SHALL NOT BE LESS THAN THAT SHOWN.
- H. ANGLE MAY BE L3 1/2x3 1/2x1/4 OR BETTER

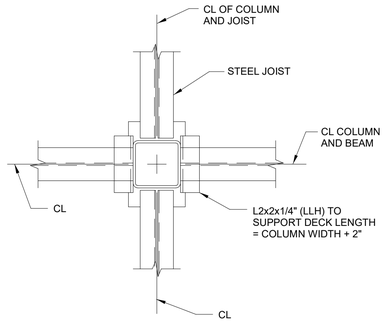
1 AISC TYPE 2 SIMPLE FRAMING CONNECTIONS TYPICAL DETAIL

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



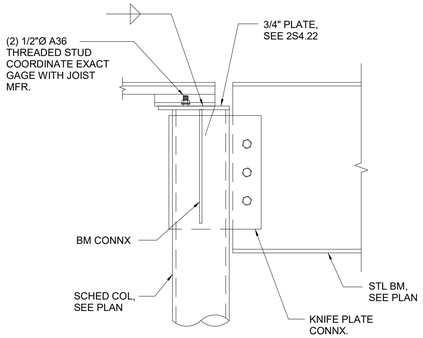
4 TYPICAL JOIST TO COLUMN CONNECTION JOIST ONE SIDE OF COLUMN DETAIL

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



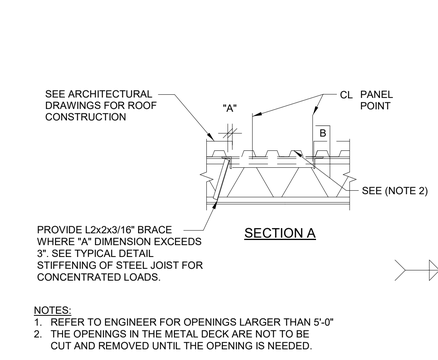
5 TYPICAL DETAIL DECK EDGE SUPPORT WITH JOIST CONSTRUCTION

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

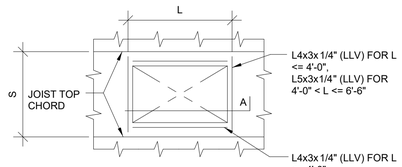


6 TYPICAL JOIST AND BM COLUMN DETAIL

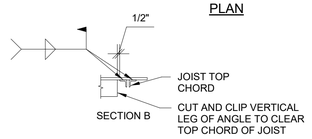
SCALE: 3/4" = 1'-0"



SECTION A



PLAN

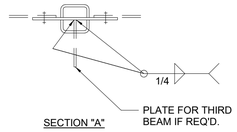


SECTION B

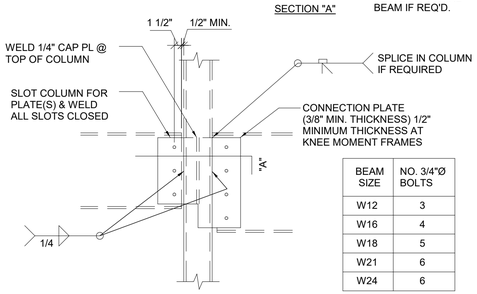
NOTES:
1. REFER TO ENGINEER FOR OPENINGS LARGER THAN 5'-0"
2. THE OPENINGS IN THE METAL DECK ARE NOT TO BE CUT AND REMOVED UNTIL THE OPENING IS NEEDED.

2 TYPICAL DETAIL ROOF OPENING OPEN WEB STEEL JOIST CONSTRUCTION

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



SECTION "A"

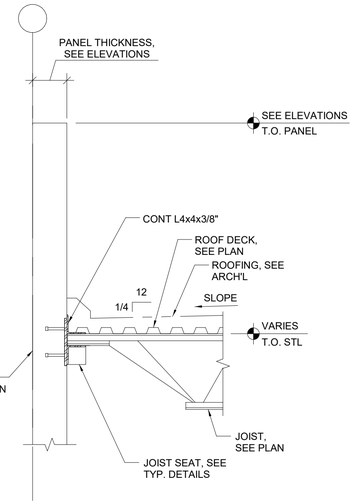


BEAM SIZE	NO. 3/4"Ø BOLTS
W12	3
W16	4
W18	5
W21	6
W24	6

ALL BOLTS ARE 3/4"Ø A325

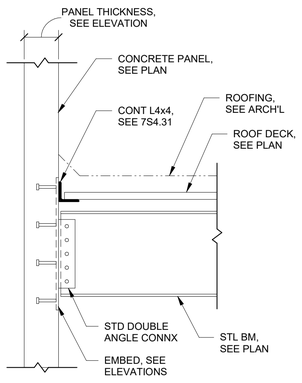
3 TYPICAL BEAM WEB TO TUBE COLUMN CONNECTION

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



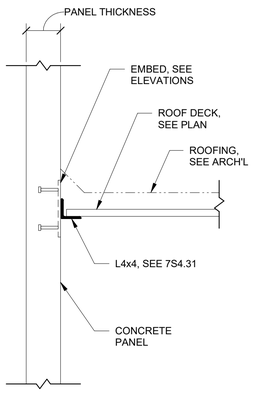
7 DETAIL

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



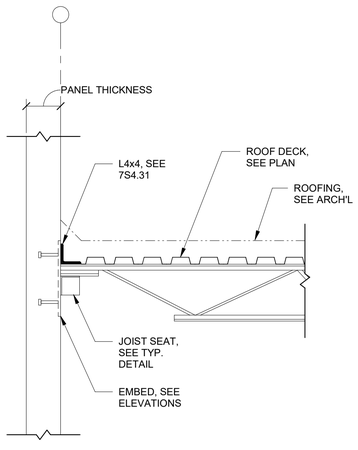
8 DETAIL

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



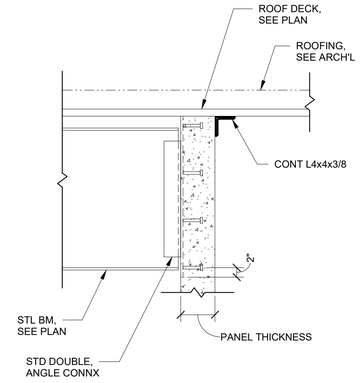
9 DETAIL

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



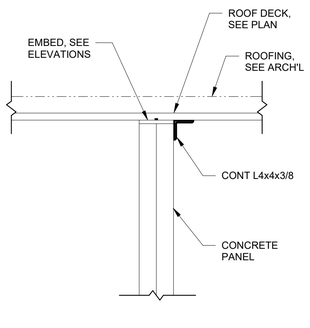
10 DETAIL

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



11 DETAIL

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



12 DETAIL

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

FILENAME: C:\REVIT PROJECTS\OSCAR MENDEZ - 190019 - TX DOT Maintenace PGAL (RVT 19').rvt
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FIRM NO. T-9351
EXPIRATION DATE 6/30/19
JOB NO. 190019

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STATE OF TEXAS
GABRIEL GARZA
90960
REGISTERED
ENGINEER
05.10.19

DRAWING HISTORY

No.	DATE	DESCRIPTION
	3-12-2019	ISSUE FOR 95% CD REVIEW
	5-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

000000000

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

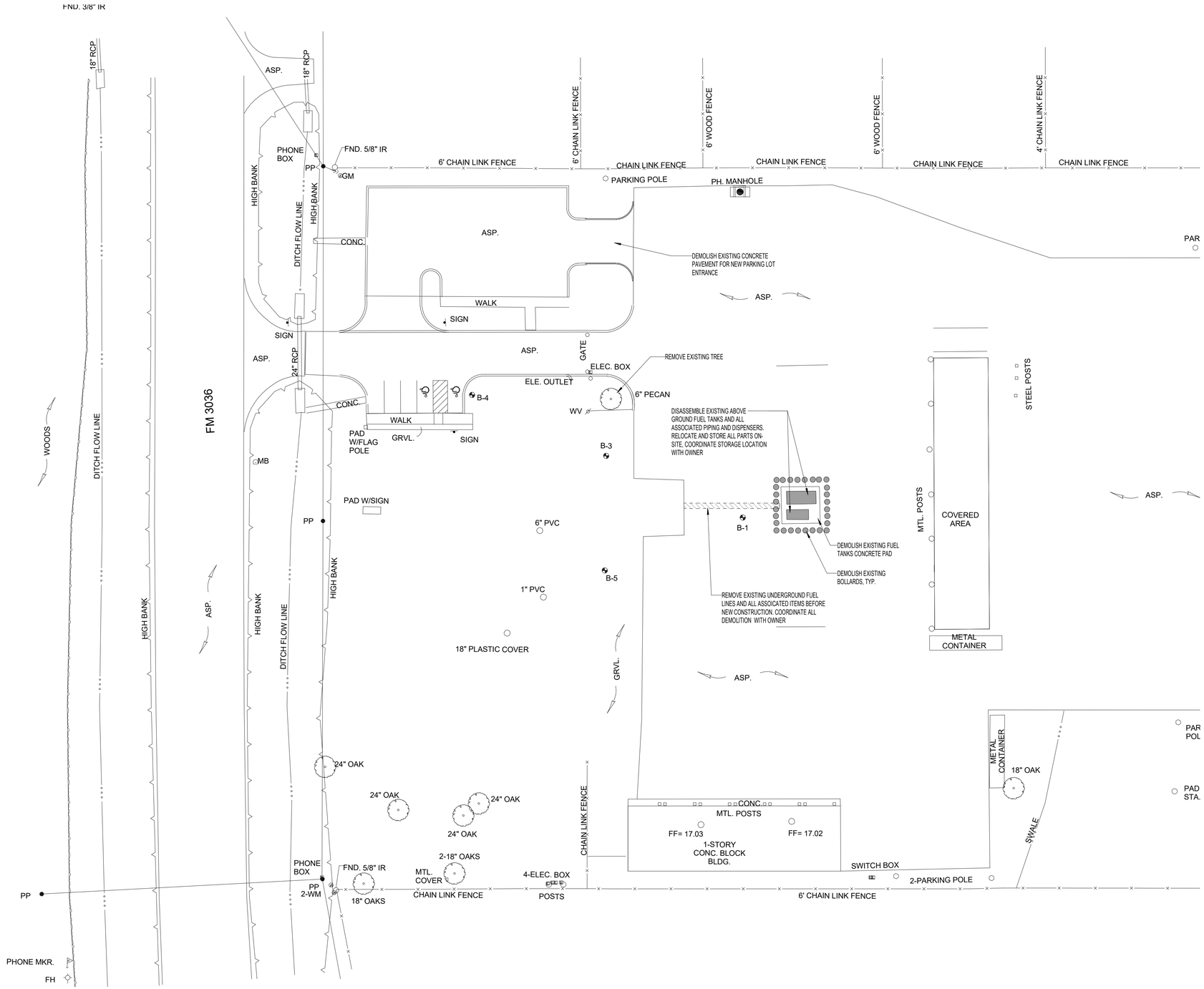
1003526

SHEET TITLE

TYPICAL ROOF DETAILS

SHEET NUMBER

S4.31



ENLARGED ARCHITECTURAL DEMOLITION SITE PLAN 1" = 30'-0" (1)

FILENAME: R:\1003300-1004999\1003526.00\WA5_ROCKPORT\04_DOCUMENTS\MODELS\Backup Model\3526-TXDOT Rockport_CChau.rvt
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	3-12-2019	ISSUE FOR 95% CD REVIEW
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PROJECT NAME

NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

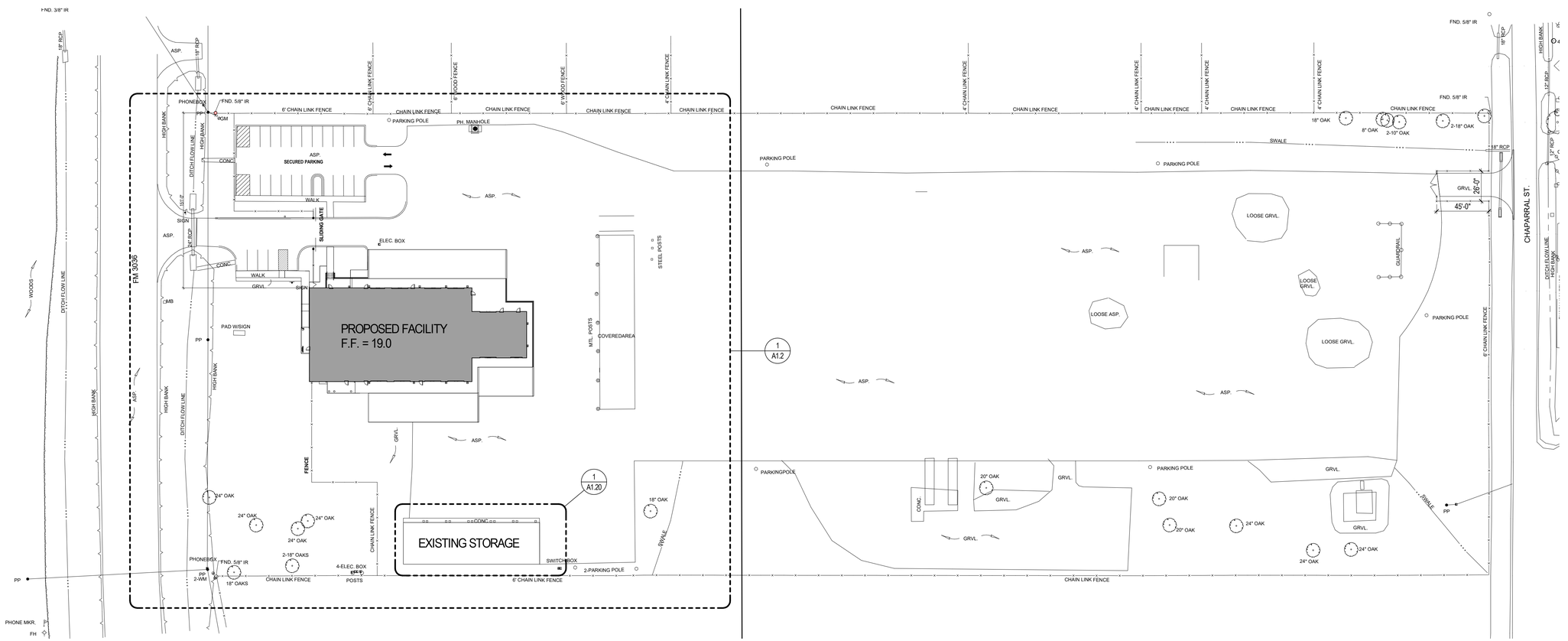
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SHEET TITLE

ENLARGED ARCHITECTURAL DEMOLITION SITE PLAN

SHEET NUMBER

D1.2



N

OVERALL ARCHITECTURAL SITE PLAN 1" = 50'-0" (1)

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	3-12-2019	ISSUE FOR 95% CD REVIEW
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	5-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

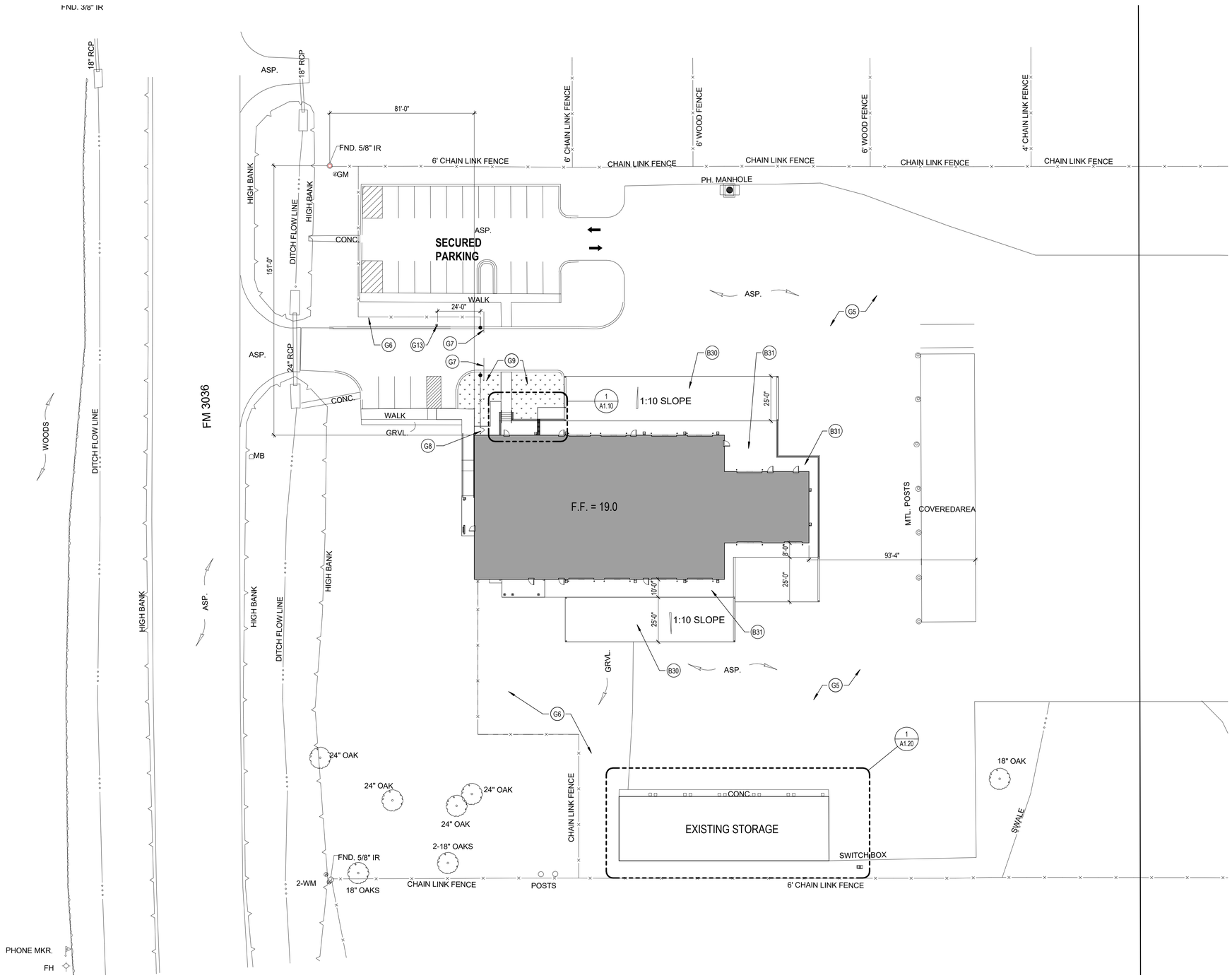
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SHEET TITLE

OVERALL ARCHITECTURAL SITE PLAN

SHEET NUMBER

A1.1



KEYED NOTES

#	DESCRIPTION
B30	CAST IN PLACE CONCRETE APRON, RE: CIVIL
B31	NEW CAST IN PLACE CONCRETE SIDEWALK WITH LIGHT BROOM FINISH
G5	EXISTING ASPHALT PAVEMENT TO REAMIN
G6	NEW GALVANIZED CHAIN-LINK FENCE
G7	NEW MOTORIZED SLIDING GATE
G8	NEW 3'-0" MAN GATE WITH CARD READER
G9	NEW SOLID SOD
G13	NEW CARD READER PEDESTAL

ENLARGED ARCHITECTURAL SITE PLAN 1" = 30'-0" (1)

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	5-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

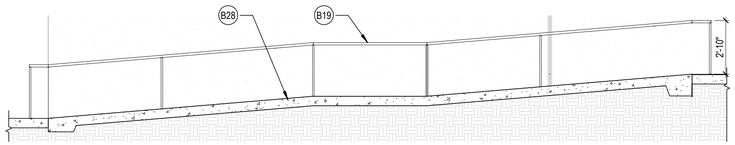
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ENLARGED ARCHITECTURAL SITE PLAN

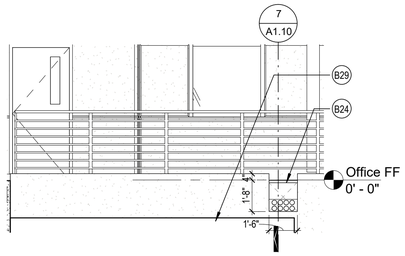
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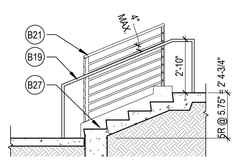
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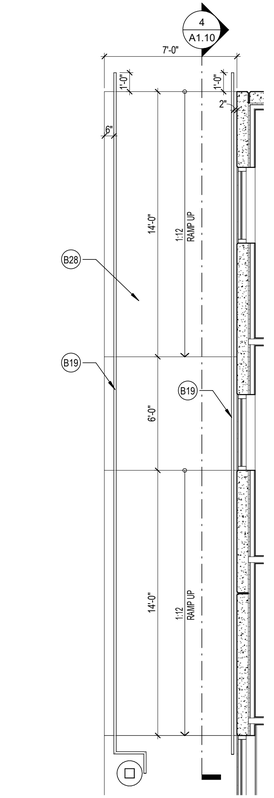
HC RAMP SECTION 1/4" = 1'-0" 4



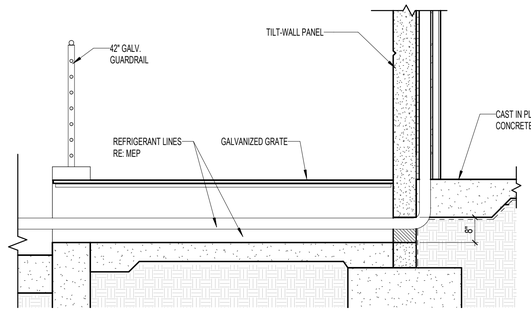
CONDENSER LINES TRENCH 1/4" = 1'-0" 5



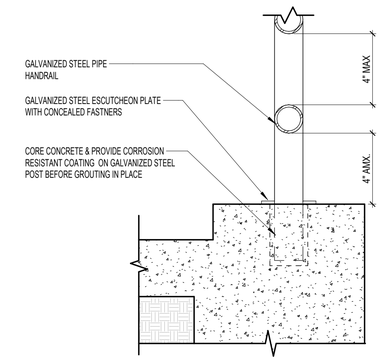
WEST STAIR SECTION 1/4" = 1'-0" 3



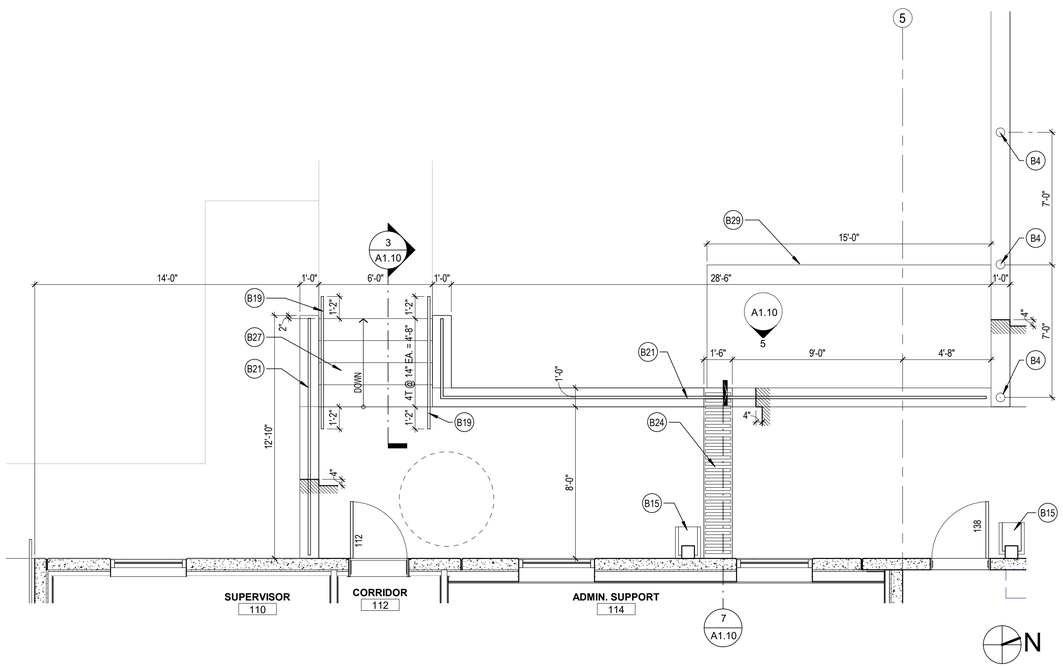
ENLARGED HC RAMP PLAN 1/4" = 1'-0" 2



CONDENSER LINE TRENCH SECTION 1/2" = 1'-0" 7



TYPICAL RAILING MOUNTING DETAIL 3" = 1'-0" 6



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

GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF GYP. BOARD , CMU OR CENTERLINE OF COLUMN U.N.O., FINISHES (TILE, WOOD PANELS, ETC.) ARE BEYOND LINE OF INDICATED DIMENSIONS.
2. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS AND SPECIFICATION FOR WALL FINISHES, LOCATION AND ARRANGEMENT.
3. REFER TO SHEET G0.11, G0.12 & G0.13 FOR ACCESSIBILITY INFORMATION.
4. REFER TO SHEET A8.1 FOR PARTITION SCHEDULE

KEYED NOTES

#	DESCRIPTION
B4	NEW 6" DIA. CONCRETE FILLED SCHEDULE 40 GALVANIZED STEEL PIPE BOLLARD. COVER BOLLARD WITH 1/4" "OSHA YELLOW" BOLLARD COVER. BASIS-OF-DESIGN: "IDEAL SHIELD" DOME TOP COVER OR APPROVED EQUAL
B15	CONCRETE SPLASH BLOCK
B19	34" HT. FLOOR MOUNTED GALVANIZED 1-1/2" DIA. PIPE HANDRAIL
B21	42" HT. GALVANIZED 1-1/2" DIA. PIPE GUARDRAIL
B24	GALVANIZED STEEL GRATE
B27	CAST IN PLACE CONCRETE STEPS WITH LIGHT BROOM FINISH
B28	CAST IN PLACE CONCRETE RAMP WITH LIGHT BROOM FINISH
B29	CAST IN PLACE CONCRETE A/C CONDENSERS PAD

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5-10-2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
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PROJECT NAME

NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

SHEET TITLE

ENLARGED SITE PLAN AND DETAILS

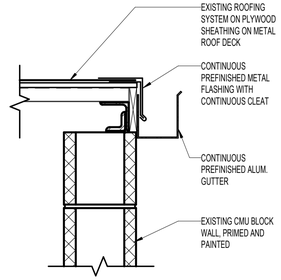
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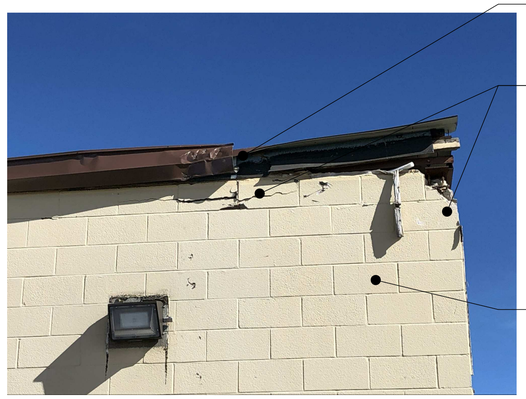
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EXISTING STORAGE PARTIAL NORTH ELEVATION 1/4" = 1'-0" 5



TYPICAL ROOF SECTION DETAIL 1 1/2" = 1'-0" 2



EXISTING STORAGE PARTIAL EAST ELEVATION 1/4" = 1'-0" 7



EXISTING STORAGE PARTIAL SOUTH ELEVATION 1/4" = 1'-0" 4

PARTIAL SITE PLAN - EAST WAREHOUSE STORAGE 1" = 30'-0" 1



EXISTING STORAGE TYP. INTERIOR ELEVATION 1/4" = 1'-0" 6



EXISTING STORAGE SOUTH ELEVATION 1/4" = 1'-0" 3

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No.	DATE	DESCRIPTION
	3-12-2019	ISSUE FOR 95% CD REVIEW
	4-12-2019	95% CONSTRUCTION DOCUMENTS
	5-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

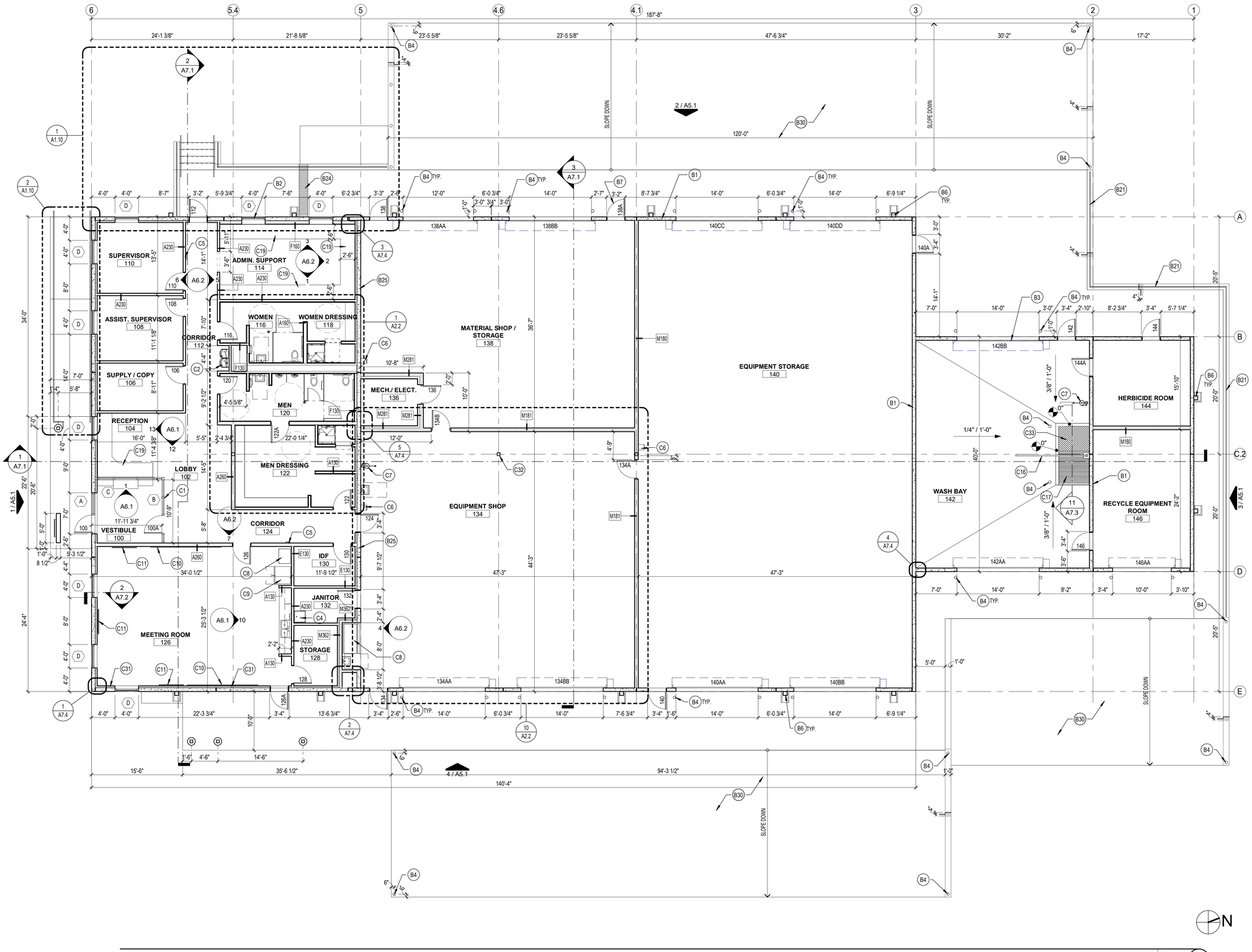
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EXISTING STOREAGE ELEVATIONS AND DETAIL

SHEET NUMBER

A1.20

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

GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. ALL DIMENSIONS ARE TO FACE OF GYP. BOARD , CMU OR CENTERLINE OF COLUMN U.N.O., FINISHES (TILE, WOOD PANELS, ETC.) ARE BEYOND LINE OF INDICATED DIMENSIONS.
3. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS AND SPECIFICATION FOR WALL FINISHES, LOCATION AND ARRANGEMENT.
4. REFER TO ARCHITECTURAL, STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ALL FLOOR OPENINGS AND DEPRESSIONS, WALL FRAMING, SUSPENSION SYSTEMS, ETC. TO APPLY MATERIAL FINISHES CALLED FOR IN SCHEDULE OR DETAILS.
5. COORDINATE SIZE AND LOCATION OF ALL FLOOR OPENINGS WITH EQUIPMENT MANUFACTURER REQUIREMENTS.
6. REFER TO SHEET A8.1 SERIES OR PARTITION TYPES
7. REFER TO SHEET A9.5 FOR ROOM FINISH LEGEND AND SCHEDULES
8. REFER TO SHEET A9.1 FOR DOOR SCHEDULES, DOOR TYPES & WINDOW TYPES
9. REFER TO SHEET A4.1 FOR REFLECTED CEILING PLAN
10. REFERE TO SHEET A2.2 ENLARGED FLOOR PLANS
11. REFER TO SHEET A6.0 SERIES FOR INTERIOR ELEVATIONS

KEYED NOTES

#	DESCRIPTION
B1	CAST IN PLACE CONCRETE TILT-UP WALL PANEL WITH ELASTOMERIC COATING AT ALL EXPOSED SURFACE
B2	ANODIZED ALUMINUM LOW E TINTED IMPACT RESISTANT WINDOW & FRAME
B3	STAINLESS STEEL MOTORIZED OVERHEAD DOOR, TYP.
B4	NEW 6" DIA. CONCRETE FILLED SCHEDULE 40 GALVANIZED STEEL PIPE BOLLARD. COVER BOLLARD WITH 1/4" "OSHA YELLOW" BOLLARD COVER. BASIS-OF-DESIGN: "IDEAL SHIELD" DOME TOP COVER OR APPROVED EQUAL
B6	PREFINISHED ALUM. CONDUCTOR AND DOWNSPOUT WITH CONCRETE SPLASH BLOCK
B7	PAINTED IMPACT RESISTANT METAL DOOR AND FRAME
B21	42" HT. GALVANIZED 1-1/2" DIA. PIPE GUARDRAIL
B24	GALVANIZED STEEL GRATE
B25	CAST IN PLACE CONCRETE TILT-UP WALL PANEL WITH 1" THINK CONTINUOUS POLYISOCYANURATE RIGID INSULATION BOARD (WITH FOIL FACED, R VALUE 5.7 MIN.) ON 2-1/2" METAL STUDS WITH UNFACED BATT INSULATION AT 16" O.C. ON PAINTED 5/8" GYP. BD.
B30	CAST IN PLACE CONCRETE APRON, RE: CIVIL
C1	ANODIZED ALUM. INTERIOR STOREFRONT SYSTEM
C2	DRINKING FOUNTAINS WITH HYDRATION STATION
C4	MOP SINK
C5	CLEAR ANODIZED ALUMINUM FINISH SEMI-RECESSED FIRE EXTINGUISHER CABINET
C6	CLEAR ANODIZED ALUMINUM FINISH SURFACE MOUNTED FIRE EXTINGUISHER CABINET
C7	EMERGENCY WASH STATION (EYE WASH FOUNTAIN AND DRENCH SHOWER)
C8	ICE MAKER PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
C9	REFRIGERATOR BY OWNER
C10	WALL MOUNTED 12'x4' MAGNETIC PORCELAIN DRY ERASE MARKER BOARD
C11	WALL MOUNTED TV
C16	RIGID GALV. PIPE WITH SWIVEL PIPE AT TOP
C17	GALVANIZED STEEL GRATE WITH INSECT SCREEN
C19	30" HT. PLAM WORKSTATION
C32	PRIMED AND PAINTED EXPOSED STEEL COLUMN, TYP.
C33	GALVANIZED STEEL GRATE W/ ALUMINUM DIAMOND PLATE

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5-10-2019

DRAWING HISTORY

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	12-6-2018	ISSUE FOR DESIGN DEVELOPMENT
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PROJECT NAME

NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

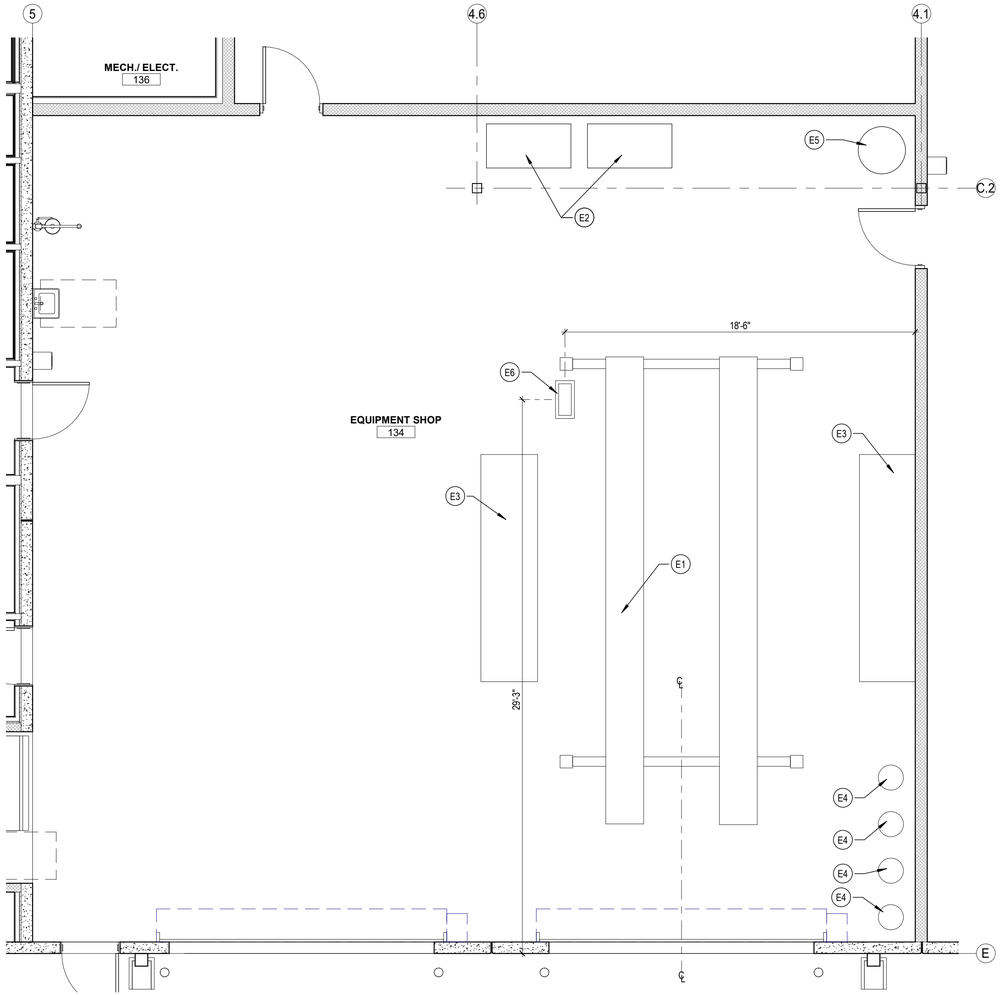
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FLOOR PLAN

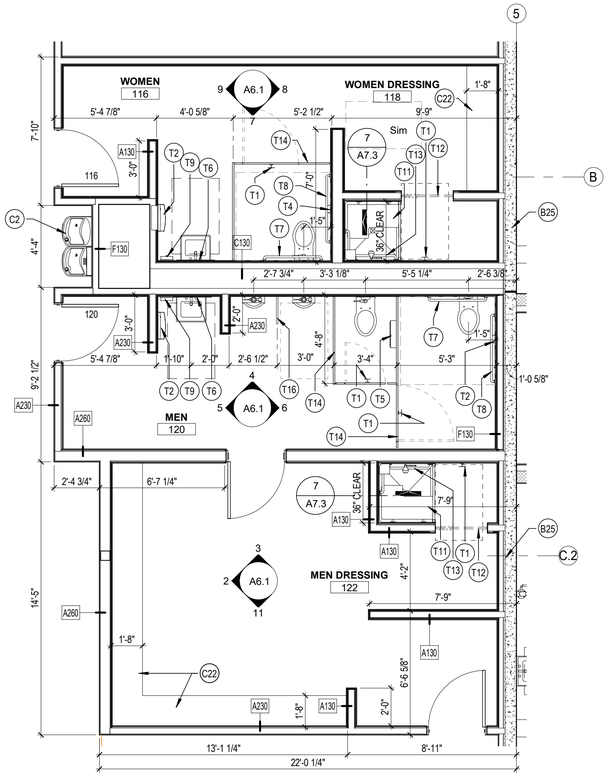
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EQUIPMENT SHOP EQUIPMENT LAYOUT 1/4" = 1'-0" (10)



ENLARGED RESTROOMS PLAN 1/4" = 1'-0" (1)

GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF GYP. BOARD , CMU OR CENTERLINE OF COLUMN U.N.O., FINISHES (TILE, WOOD PANELS, ETC.) ARE BEYOND LINE OF INDICATED DIMENSIONS.
2. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS AND SPECIFICATION FOR WALL FINISHES, LOCATION AND ARRANGEMENT.
3. REFER TO SHEET G0.11, G0.12 & G0.13 FOR ACCESSIBILITY INFORMATION.
4. REFER TO SHEET A8.1 FOR PARTITION SCHEDULE

KEYED NOTES

#	DESCRIPTION
B25	CAST IN PLACE CONCRETE TILT-UP WALL PANEL WITH 1" THINK CONTINUOUS POLYISOCYANURATE RIGID INSULATION BOARD (WITH FOIL FACED, R VALUE 5.7 MIN.) ON 2-1/2" METAL STUDS WITH UNFACED BATT INSULATION AT 16" O.C. ON PAINTED 5/8" GYP. BD.
C2	DRINKING FOUNTAINS WITH HYDRATION STATION
C22	4" HT. TILE COVERED CONCRETE CURB
E1	TOWER LIFT, OWNER PROVIDE, CONTRACTOR INSTALL
E2	ASSORTED TOOLBOX BY OWNER
E3	WORK TABLE BY OWNER
E4	WASTE BARRELS BY OWNER
E5	80 GAL. AIR COMPRESSOR
E6	POWER FLOOR BOX
T1	SURFACE MOUNTED COAT HOOK WITH BUMPER (B-212)
T2	RECESSED PAPER TOWEL DISPENSER / WASTE RECEPTACLE (B-43944)
T4	RECESSED SEAT-COVER DISPENSER, TOILET TISSUE DISPENSER AND SANITARY NAPKIN DISPOSAL (B-3574)
T5	SURFACE MOUNTED SEAT-COVER DISPENSER AND TOILET TISSUE DISPENSER (B-3479)
T6	SURFACE MOUNTED MIRROR WITH STAINLESS STEEL FRAME (B-165)
T7	36" SURFACE MOUNTED GRAB BAR (B-6806 x36)
T8	42" SURFACE MOUNTED GRAB BAR (B-6806 x42)
T9	SURFACE MOUNTED SOAP DISPENSER
T11	SHOWER SEAT (BOBRICK B-5181)
T12	HEAVY DUTY SHOWER CURTAIN ROD (BOBRICK B-6107), WHITE VINYL SHOWER CURTAIN & HOOKS
T13	TWO WALL SHOWER GRAB BAR - NOTE: GRAB BARS TO HAVE STRUCTURAL STRENGTH & MOUNTING DEVICE SHALL WITHSTAND MIN. 250 LBS OF FORCE
T14	FLOOR MOUNTED TOILET PARTITION
T16	WALL MOUNTED URINAL SCREEN

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5-10-2019

DRAWING HISTORY

Nr.	DATE	DESCRIPTION
	12-6-2018	ISSUE FOR DESIGN DEVELOPMENT
	3-12-2019	ISSUE FOR 95% CD REVIEW
	4-12-2019	95% CONSTRUCTION DOCUMENTS
	5-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

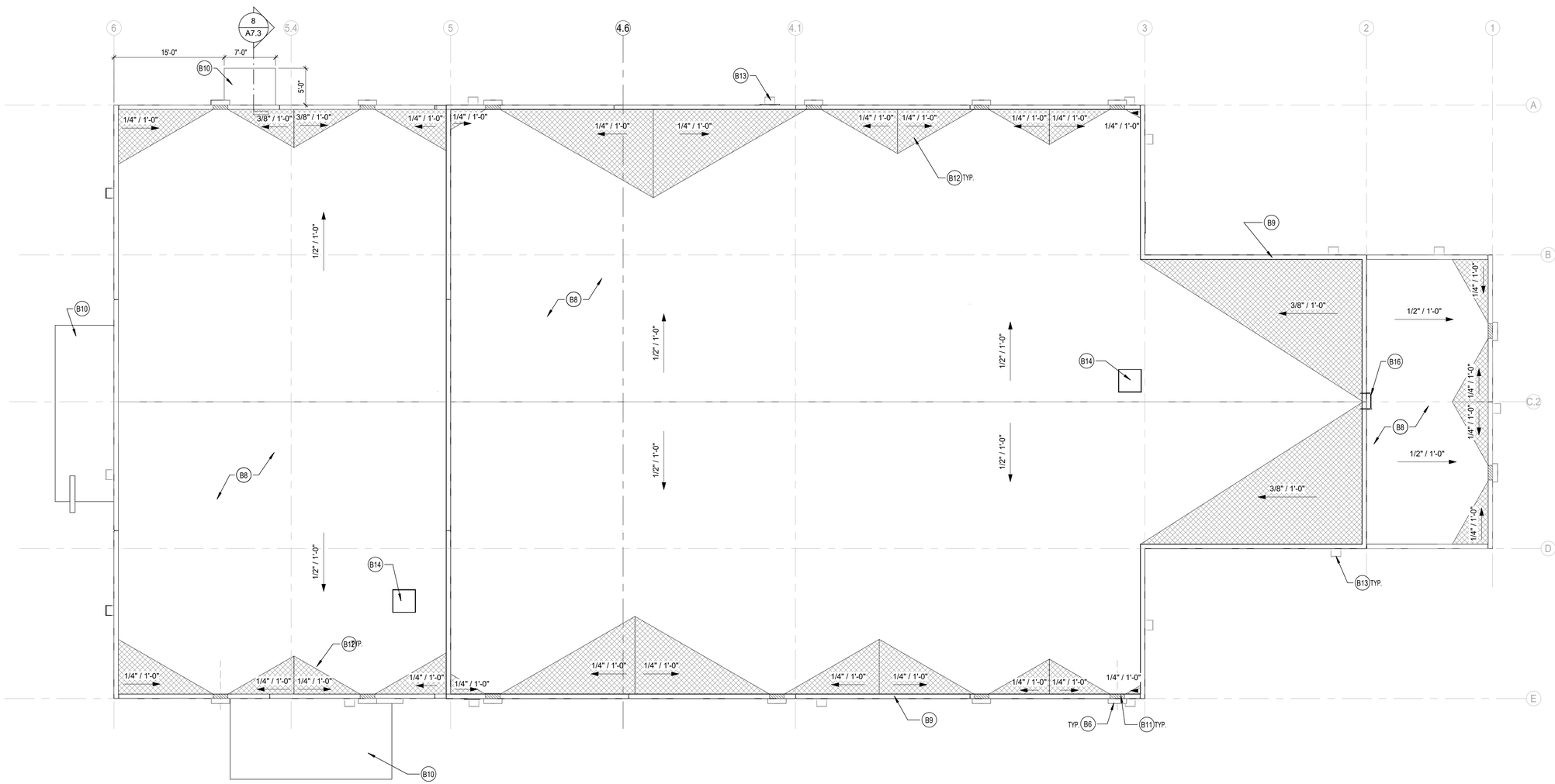
SHEET TITLE

ENLARGED FLOOR PLANS

SHEET NUMBER

A2.2

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GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. ALL DIMENSIONS ARE TO FACE OF GYP. BOARD, CMU OR CENTERLINE OF COLUMN U.N.O., FINISHES (TILE, WOOD PANELS, ETC.) ARE BEYOND LINE OF INDICATED DIMENSIONS.
3. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS AND SPECIFICATION FOR WALL FINISHES, LOCATION AND ARRANGEMENT.
4. REFER TO ARCHITECTURAL, STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ALL FLOOR OPENINGS AND DEPRESSIONS, WALL FRAMING, SUSPENSION SYSTEMS, ETC. TO APPLY MATERIAL FINISHES CALLED FOR IN SCHEDULE OR DETAILS.
5. COORDINATE SIZE AND LOCATION OF ALL FLOOR OPENINGS WITH EQUIPMENT MANUFACTURER REQUIREMENTS.
6. REFER TO SHEET A8.1 SERIES OR PARTITION TYPES
7. REFER TO SHEET A9.5 FOR ROOM FINISH LEGEND AND SCHEDULES
8. REFER TO SHEET A9.1 FOR DOOR SCHEDULES, DOOR TYPES & WINDOW TYPES
9. REFER TO SHEET A4.1 FOR REFLECTED CEILING PLAN
10. REFERE TO SHEET A2.2 ENLARGED FLOOR PLANS
11. REFER TO SHEET A6.0 SERIES FOR INTERIOR ELEVATIONS

KEYED NOTES

#	DESCRIPTION
B6	PREFINISHED ALUM. CONDUCTOR AND DOWNSPOUT WITH CONCRETE SPLASH BLOCK
B8	SCHEDULED ROOFING SYSTEM ON 1/2" COVER BOARD ON 5" MINIMUM (R-25) THICKNESS EXTRUDED POLYISOCYANURATE BOARD, RE: SPECS.
B9	PREFINISHED METAL COPING WITH CONTINUOUS CLEAT
B10	PRE-ENGINEERED PREFINISHED ALUMINUM CANOPY
B11	PREFINISHED ALUMINUM SCUPPER
B12	SCHEDULED ROOFING SYSTEM ON 1/2" COVER BOARD ON TAPERED POLYISOCYANURATE BOARD
B13	SCHEDULED EXTERIOR LIGHT FIXTURE, RE: ELECT.
B14	TDI CERTIFIED 3'x3' PREFINISHED METAL ROOF HATCH WITH WALL MOUNTED LADDER
B16	WALL MOUNTED HEAVY DUTY ALUM. ACCESS LADDER WITH ROOFOVER RAIL EXTENSIONS

N

ROOF PLAN 1/8" = 1'-0" (1)

CLIENT

Texas Department of Transportation

125 E. 11th Street. Austin, TEXAS 78701-2483

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SHEET TITLE

ROOF PLAN

SHEET NUMBER

A3.1

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REFLECTED CEILING PLAN 1/8" = 1'-0" (1)

GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. ALL DIMENSIONS ARE TO FACE OF GYP. BOARD , CMU OR CENTERLINE OF COLUMN U.N.O., FINISHES (TILE ETC.) ARE BEYOND LINE OF INDICATED DIMENSIONS.
3. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS AND SPECIFICATION FOR WALL FINISHES, LOCATION AND ARRANGEMENT.
4. REFER TO SHEET A8.1 FOR PARTITION TYPES
5. REFER TO SHEET A9.5 FOR ROOM FINISH LEGEND AND SCHEDULES AND CEILING TYPES
6. ALL FIXTURES INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, SPEAKERS, AND EMERGENCY LIGHT FIXTURES SHALL BE POSITIONED CENTERED IN CEILING PANELS UNLESS NOTED OTHERWISE.
6. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND TECHNOLOGY FOR ADDITIONAL SYSTEMS, EQUIPMENT, DEVICES, AND FIXTURE TYPES. COORDINATE ALL WORK BETWEEN EACH DISCIPLINE.
7. COORDINATE LOCATIONS OF ACCESS PANELS IN HARD CEILING WITH LOCATION OF MEP EQUIPMENT, JUNCTION BOXES, VALUES, DAMPERS ETC. REQUIRING ACCESS

KEYED NOTES

#	DESCRIPTION
B14	TDI CERTIFIED 3'x3' PREFINISHED METAL ROOF HATCH WITH WALL MOUNTED LADDER

CEILING LEGEND

- CEILING - 2'x2' ACT SYSTEM (ACL-1)
- CEILING - OPEN TO STRUCTURE
- CEILING - GWB ON METAL STUD (GYP-1)
- EXTERIOR LENSED LED STRIPLIGHT
- 2'x2' DIRECT / INDIRECT LED LAY-IN
- LED STRIPLIGHT
- 6" RECESSED DOWN LIGHT
- CONTINUOUS COVE LIGHT
- 2'x4' HIGH BAY LED
- CEILING FAN (BIG ASS SOLUTION OR EQUAL SIMILAR)
- 1 HOUR RATED FIRE WALL
- 2 HOUR RATED FIRE WALL
- FUTURE CEILING FAN
- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- RETURN AIR GRILLE

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1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

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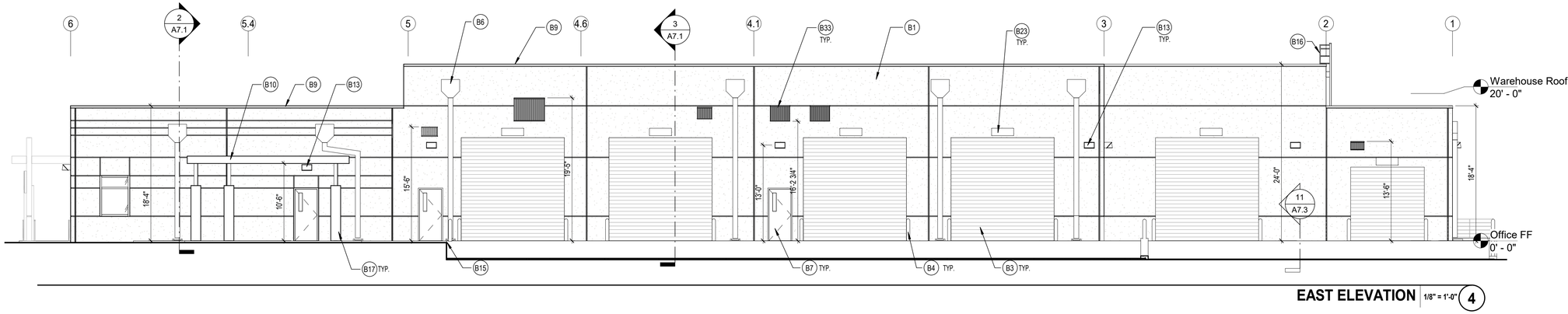
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REFLECTED CEILING PLAN

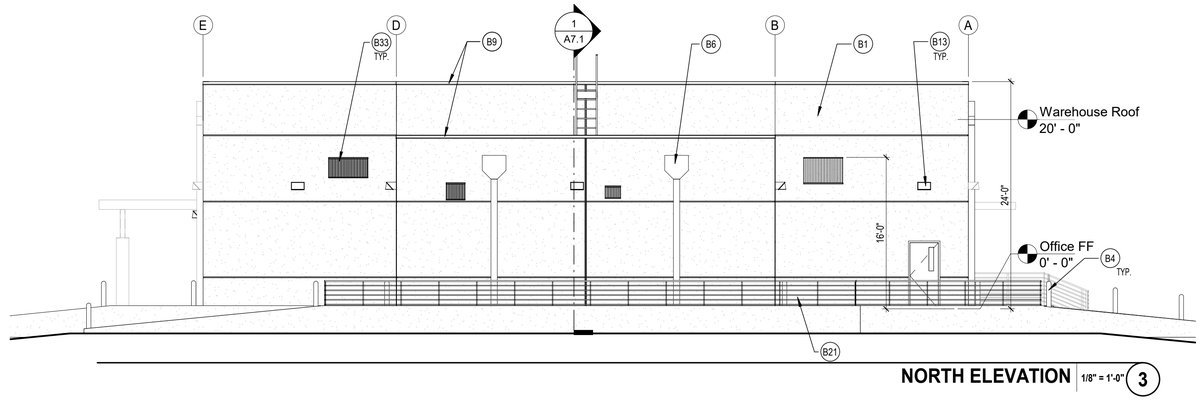
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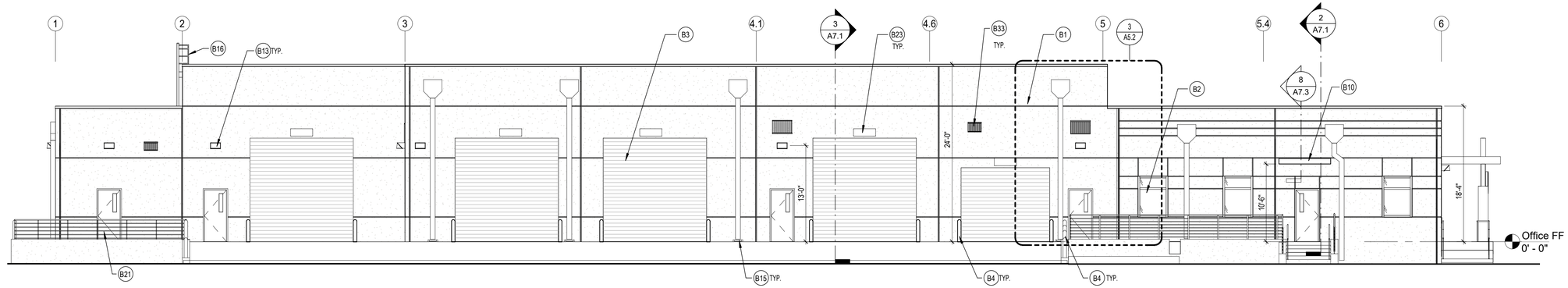
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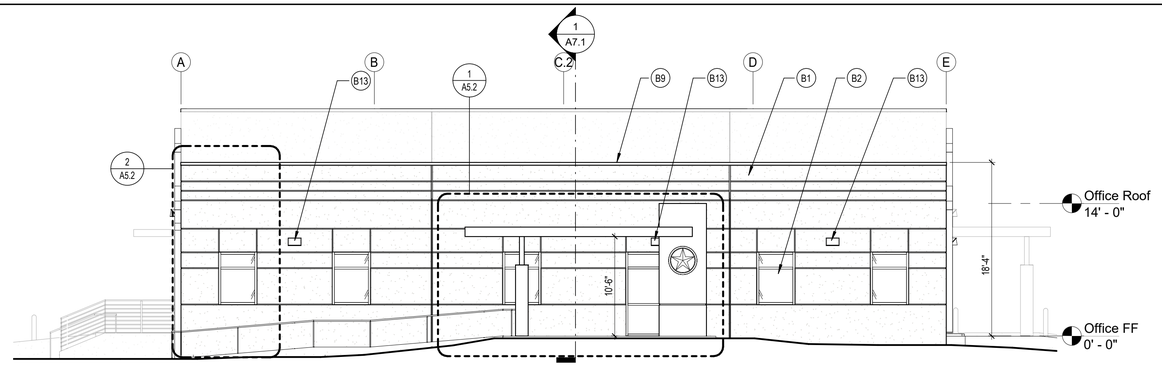
EAST ELEVATION 1/8" = 1'-0" (4)



NORTH ELEVATION 1/8" = 1'-0" (3)



WEST ELEVATION 1/8" = 1'-0" (2)



SOUTH ELEVATION 1/8" = 1'-0" (1)

ELEVATION NOTES

1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. REFER TO SHEET A9.1 FOR DOOR SCHEDULES, DOOR TYPES & WINDOW TYPES
3. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, TECHNOLOGY AND SECURITY DRAWINGS FOR ADDITIONAL EQUIPMENTS, DEVICES AND FIXTURE TYPES. COORDINATE ALL WORK BETWEEN EACH DISCIPLES.

KEYED NOTES

#	DESCRIPTION
B1	CAST IN PLACE CONCRETE TILT-UP WALL PANEL WITH ELASTOMERIC COATING AT ALL EXPOSED SURFACE
B2	ANODIZED ALUMINUM LOW E TINTED IMPACT RESISTANT WINDOW & FRAME
B3	STAINLESS STEEL MOTORIZED OVERHEAD DOOR, TYP.
B4	NEW 6" DIA. CONCRETE FILLED SCHEDULE 40 GALVANIZED STEEL PIPE BOLLARD. COVER BOLLARD WITH 1/4" "OSHA YELLOW" BOLLARD COVER. BASIS-OF-DESIGN: "IDEAL SHIELD" DOME TOP COVER OR APPROVED EQUAL
B6	PREFINISHED ALUM. CONDUCTOR AND DOWNSPOUT WITH CONCRETE SPLASH BLOCK
B7	PAINTED IMPACT RESISTANT METAL DOOR AND FRAME
B9	PREFINISHED METAL COPING WITH CONTINUOUS CLEAT
B10	PRE-ENGINEERED PREFINISHED ALUMINUM CANOPY
B13	SCHEDULED EXTERIOR LIGHT FIXTURE, RE: ELECT.
B15	CONCRETE SPLASH BLOCK
B16	WALL MOUNTED HEAVY DUTY ALUM. ACCESS LADDER WITH ROOFOVER RAIL EXTENSIONS
B17	SMOOTH ARCH. FINISH COONCRETE ENCASED STEEL TUBE COLUMN
B21	42" HT. GALVANIZED 1-1/2" DIA. PIPE GUARDRAIL
B23	WALL MOUNTED REFLECTIVE DOOR HEIGHT SIGN, SIMILAR TO EXISTING WAREHOUSE
B33	PREFINISHED STATIONARY ALUMINUM LOUVER, REFER TO MECHANICAL

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78382

PGAL PROJECT NUMBER

1003526

SHEET TITLE

ELEVATIONS - EXTERIOR

SHEET NUMBER

A5.1

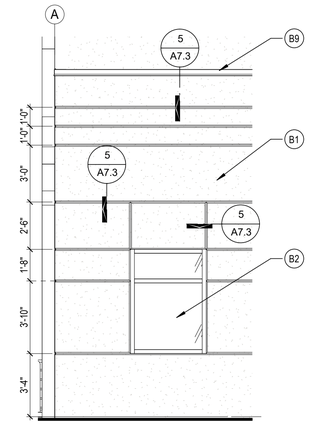
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ELEVATION NOTES

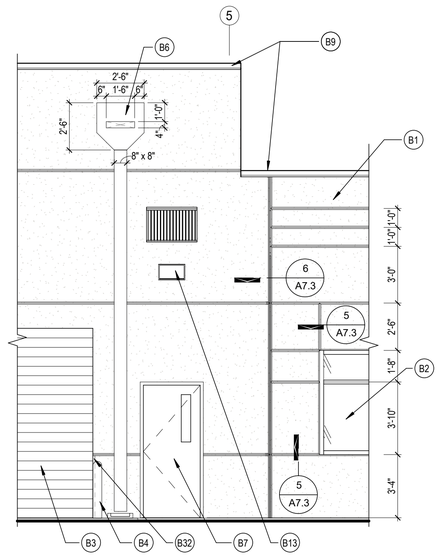
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KEYED NOTES

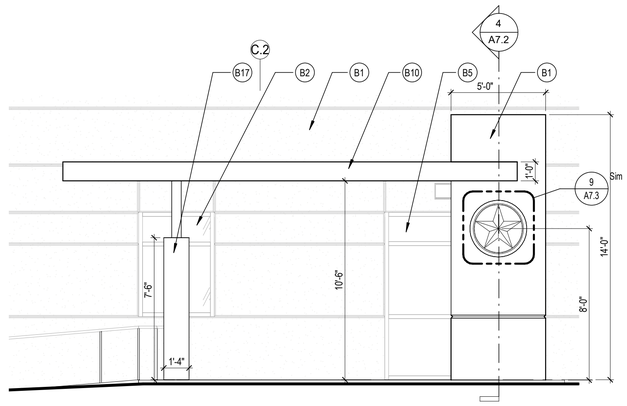
#	DESCRIPTION
B1	CAST IN PLACE CONCRETE TILT-UP WALL PANEL WITH ELASTOMERIC COATING AT ALL EXPOSED SURFACE
B2	ANODIZED ALUMINUM LOW E TINTED IMPACT RESISTANT WINDOW & FRAME
B3	STAINLESS STEEL MOTORIZED OVERHEAD DOOR, TYP.
B4	NEW 6" DIA. CONCRETE FILLED SCHEDULE 40 GALVANIZED STEEL PIPE BOLLARD. COVER BOLLARD WITH 1/4" "OSHA YELLOW" BOLLARD COVER. BASIS-OF-DESIGN: "IDEAL SHIELD" DOME TOP COVER OR APPROVED EQUAL
B5	ANODIZED ALUMINUM IMPACT RESISTANT STOREFRONT SYSTEM
B6	PREFINISHED ALUM. CONDUCTOR AND DOWNSPOUT WITH CONCRETE SPLASH BLOCK
B7	PAINTED IMPACT RESISTANT METAL DOOR AND FRAME
B9	PREFINISHED METAL COPING WITH CONTINUOUS CLEAT
B10	PRE-ENGINEERED PREFINISHED ALUMINUM CANOPY
B13	SCHEDULED EXTERIOR LIGHT FIXTURE, RE: ELECT.
B17	SMOOTH ARCH. FINISH COONCRETE ENCASED STEEL TUBE COLUMN
B32	PAINTED GALVANIZED STEEL ANGLE CORNER GUARD, REFER TO DOOR DETAIL



ENLARGED EXTERIOR ELEVATION 1/4" = 1'-0" (2)



ENLARGED PARTIAL WEST ELEVATION 1/4" = 1'-0" (3)



ENLARGED ENTRANCE ELEVATION 1/4" = 1'-0" (1)

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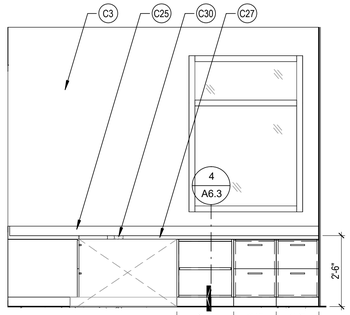
ELEVATIONS - ENLARGED

SHEET NUMBER

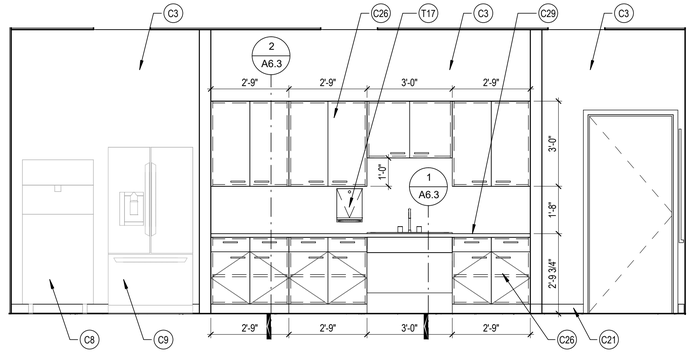
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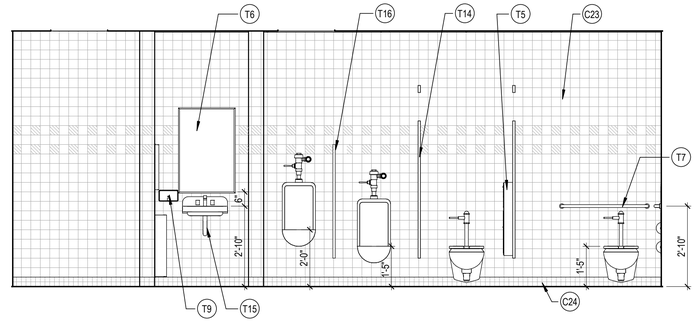
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RECEPTIONIST - SOUTH 3/8" = 1'-0" 13



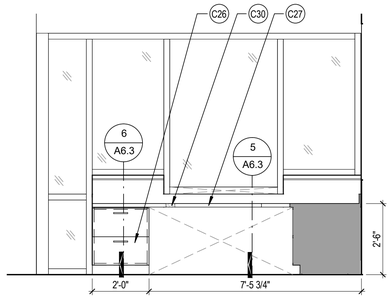
MEETING ROOM COUNTER 3/8" = 1'-0" 10



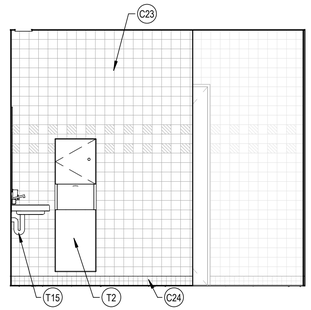
MEN - WEST 3/8" = 1'-0" 4

ELEVATION NOTES

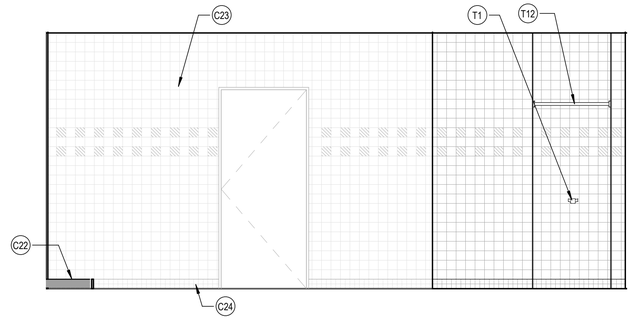
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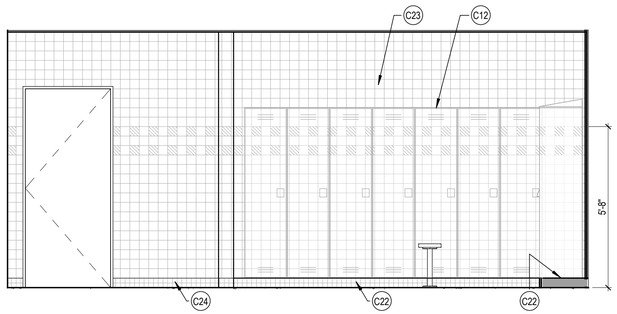
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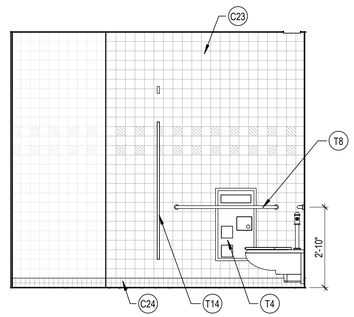
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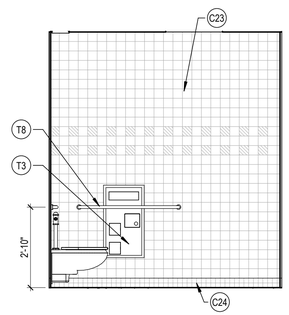
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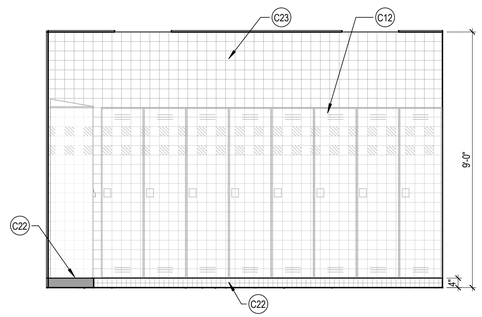
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WOMEN - NORTH 3/8" = 1'-0" 8



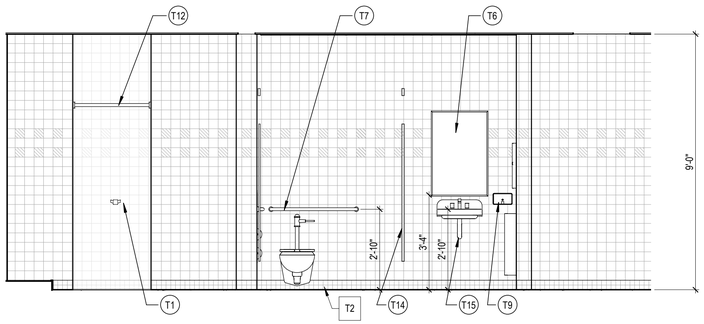
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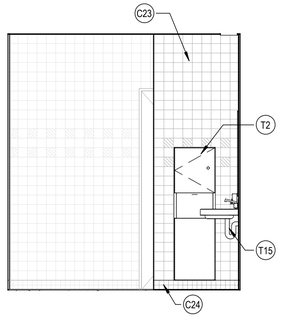
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KEYED NOTES

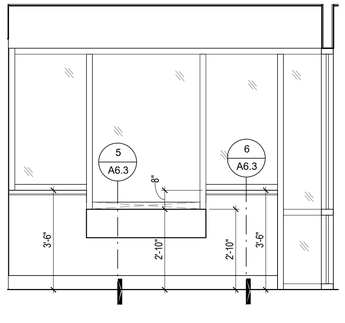
#	DESCRIPTION
C3	SCHEDULED WALL PAINT, RE: FINISH SCHEDULE
C8	ICE MAKER PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
C9	REFRIGERATOR BY OWNER
C12	18"x18"x72" VENTILATED LOCKERS ON 4" HIGH CONCRETE CURB
C21	SCHEDULED WALL BASE, RE: FINISH SCHEDULE
C22	4" HT. TILE COVERED CONCRETE CURB
C23	SCHEDULED TILE WALL, RE: FINISH SCHEDULE
C24	SCHEDULED TILE BASE, RE: FINISH SCHEDULE
C25	P.LAM SURFACE COUNTERTOP & BACKSPLASH, RE: FINISH LEGEND
C26	P.LAM SURFACE CABINET WITH ADJUSTABLE SHELVES, RE: FINISH LEGEND
C27	PLASTIC T-MOLDING TABLE EDGE, MATCH PLAM COLOR
C29	SOLID SURFACE COUNTERTOP & P.LAM BACKSPLASH, RE: FINISH LEGEND
C30	RECTANGULAR GROMMET (DOUG MOCKETT RG SERIES,"SHERLOCK" BLACK)
T1	SURFACE MOUNTED COAT HOOK WITH BUMPER (B-212)
T2	RECESSED PAPER TOWEL DISPENSER / WASTE RECEPTACLE (B-43944)
T3	RECESSED SEAT-COVER DISPENSER AND TOILET TISSUE DISPENSER (B-3474)
T4	RECESSED SEAT-COVER DISPENSER, TOILET TISSUE DISPENSER AND SANITARY NAPKIN DISPOSAL (B-3574)
T5	SURFACE MOUNTED SEAT-COVER DISPENSER AND TOILET TISSUE DISPENSER (B-3479)
T6	SURFACE MOUNTED MIRROR WITH STAINLESS STEEL FRAME (B-165)
T7	36" SURFACE MOUNTED GRAB BAR (B-6806 x36)
T8	42" SURFACE MOUNTED GRAB BAR (B-6806 x42)
T9	SURFACE MOUNTED SOAP DISPENSER
T12	HEAVY DUTY SHOWER CURTAIN ROD (BOBRICK B-6107), WHITE VINYL SHOWER CURTAIN & HOOKS
T14	FLOOR MOUNTED TOILET PARTITION
T15	ADA BELOW SINK PIPE COVER
T16	WALL MOUNTED URINAL SCREEN
T17	SURFACE MOUNTED PAPER TOWEL DISPENSER (B-4262)



WOMEN - EAST 3/8" = 1'-0" 7



MEN - SOUTH 3/8" = 1'-0" 5



RECEPTIONIST COUNTER 3/8" = 1'-0" 1

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5-10-2019

DRAWING HISTORY

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PROJECT NAME

NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

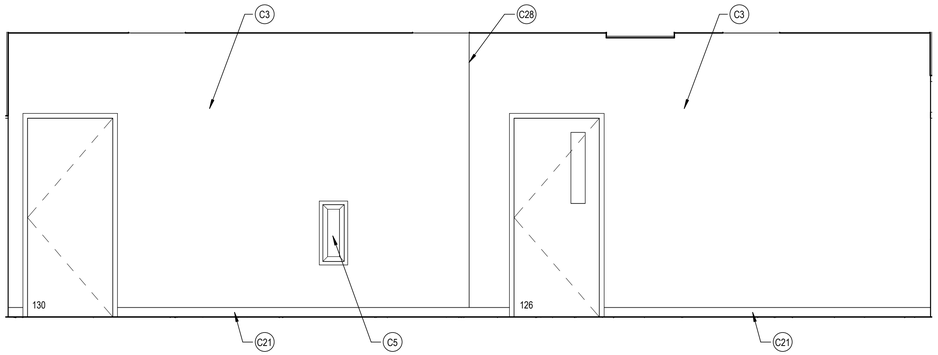
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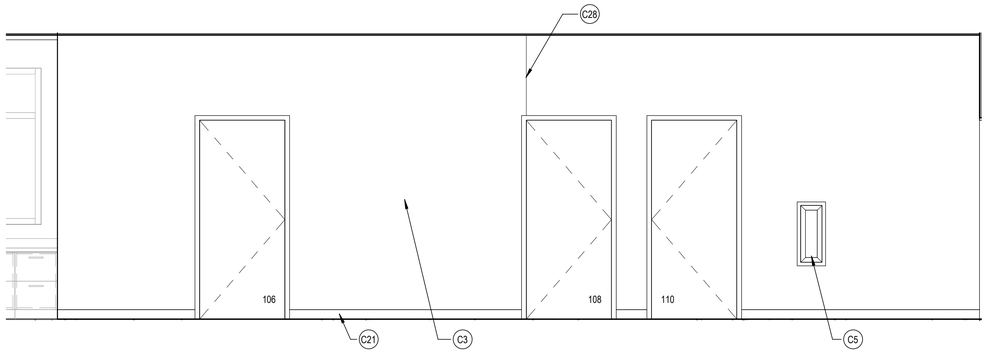
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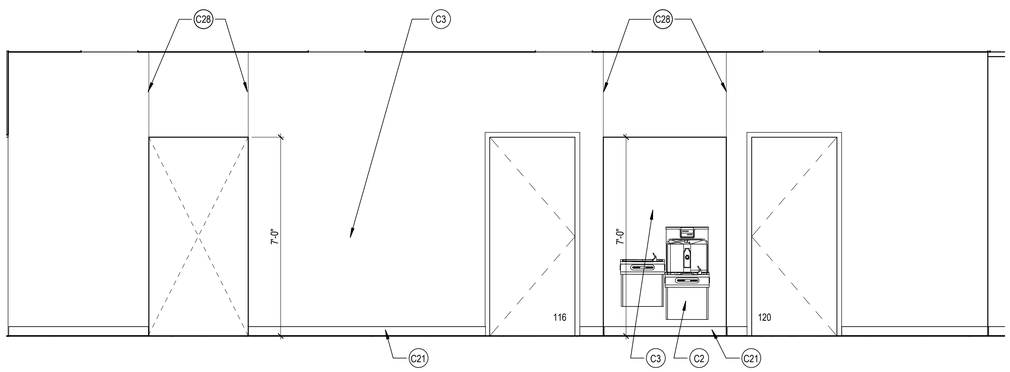
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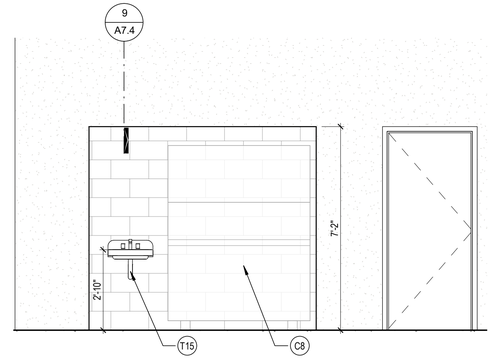
CORRIDOR 124 E. ELEVATION 3/8" = 1'-0" 7



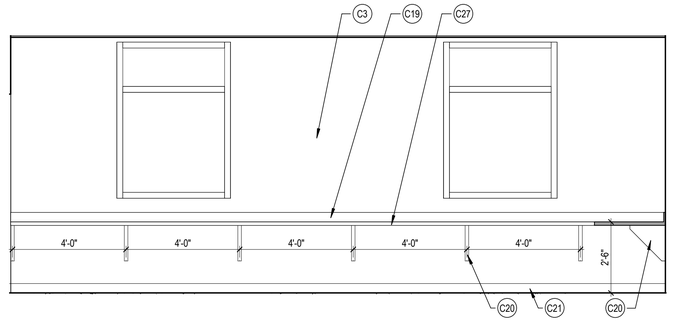
CORRIDOR 112 S. ELEVATION 3/8" = 1'-0" 6



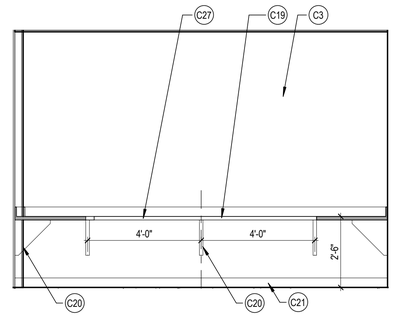
CORRIDOR 112 N. ELEVATION 3/8" = 1'-0" 5



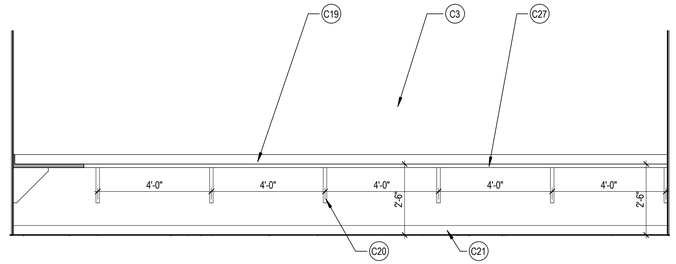
EQUIPMENT SHOP 3/8" = 1'-0" 4



ADMIN. SUPPORT WEST ELEV. 3/8" = 1'-0" 3



ADMIN. SUPPORT NORTH ELEV. 3/8" = 1'-0" 2



ADMIN. SUPPORT EAST ELEV. 3/8" = 1'-0" 1

ELEVATION NOTES

1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. REFER TO SHEET A9.1 FOR DOOR SCHEDULES, DOOR TYPES & WINDOW TYPES
3. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, TECHNOLOGY AND SECURITY DRAWINGS FOR ADDITIONAL EQUIPMENTS, DEVICES AND FIXTURE TYPES. COORDINATE ALL WORK BETWEEN EACH DISCIPLES.

KEYED NOTES

#	DESCRIPTION
C2	DRINKING FOUNTAINS WITH HYDRATION STATION
C3	SCHEDULED WALL PAINT, RE: FINISH SCHEDULE
C5	CLEAR ANODIZED ALUMINUM FINISH SEMI-RECESSED FIRE EXTINGUISHER CABINET
C8	ICE MAKER PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
C19	30" HT. PLAM WORKSTATION
C20	PLAM COUNTER SUPPORT
C21	SCHEDULED WALL BASE, RE: FINISH SCHEDULE
C27	PLASTIC T-MOLDING TABLE EDGE, MATCH PLAM COLOR
C28	PAINTED GYP. BD. CONTROL JOINTS
T15	ADA BELOW SINK PIPE COVER

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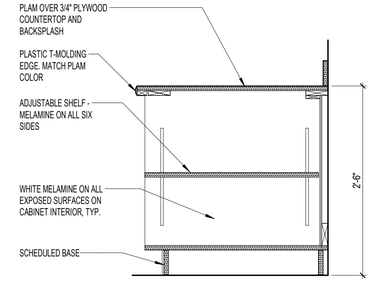
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INTERIOR ELEVATIONS

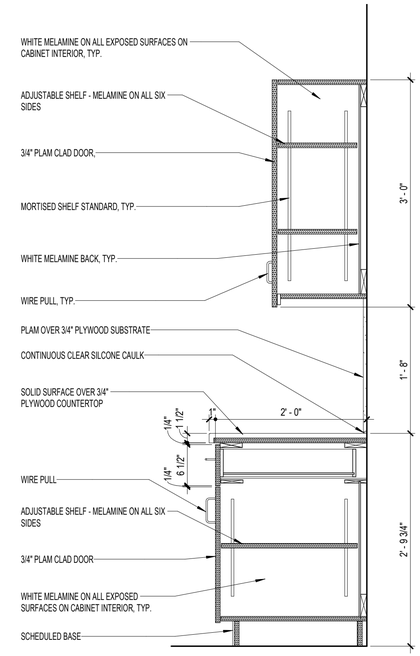
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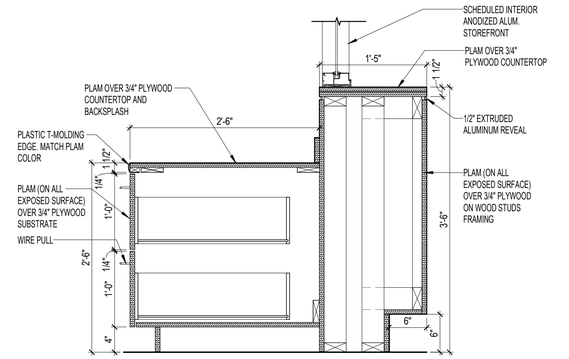
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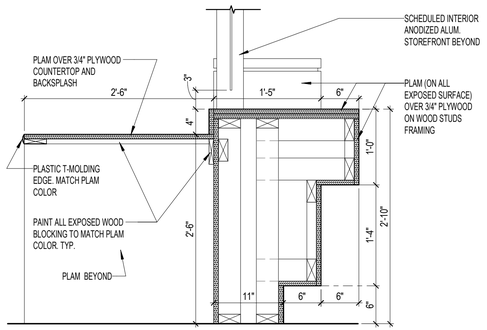
SECTION AT RECEPTION DESK 1" = 1'-0" (4)



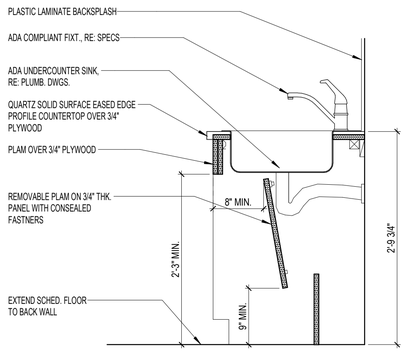
MEETING ROOM COUNTER 1" = 1'-0" (2)



SECTION AT RECEPTION DECK 1" = 1'-0" (6)



SECTION AT RECEPTION DECK PASS THRU 1" = 1'-0" (5)



MEETING ROOM SINK SECTION 1" = 1'-0" (1)

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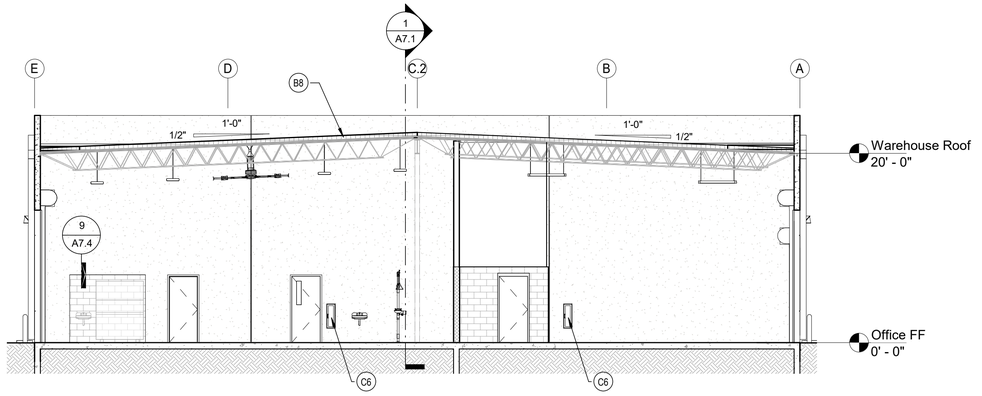
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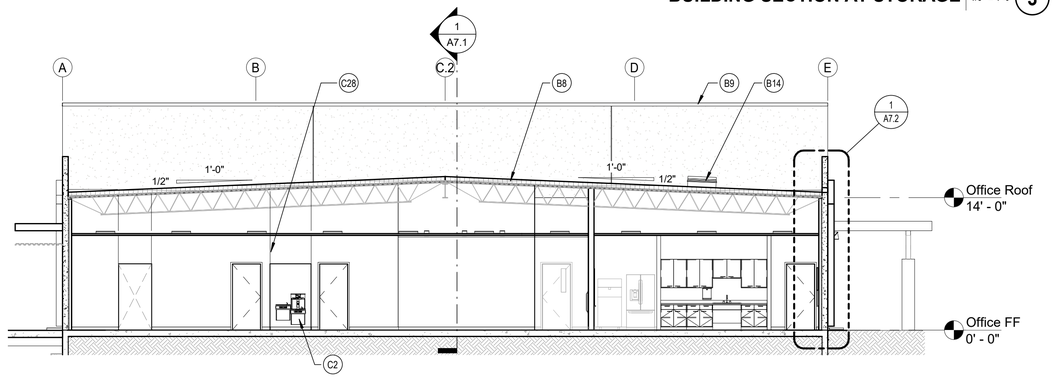
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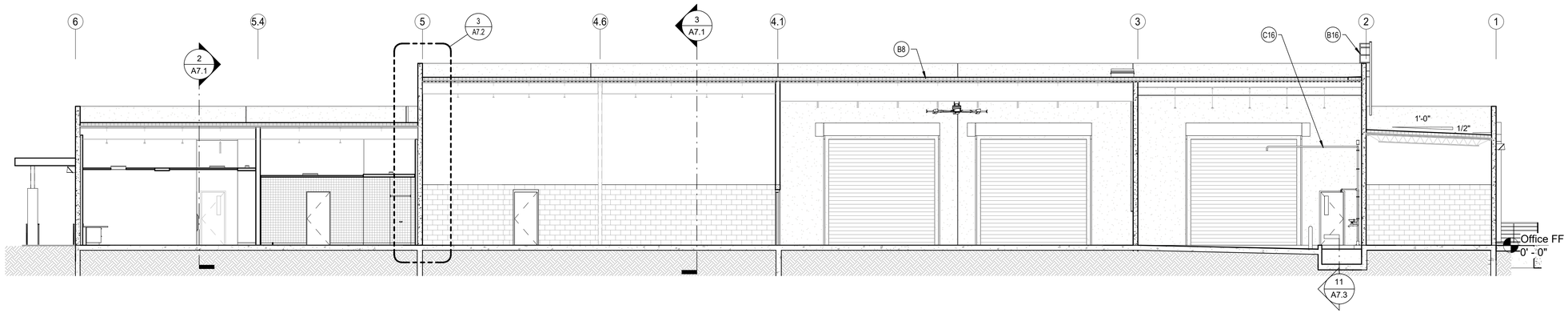
A6.3



BUILDING SECTION AT STORAGE 1/8" = 1'-0" **3**



BUILDING SECTION - OFFICE SIDE 1/8" = 1'-0" **2**



BUILDING SECTION - NORTH-SOUTH 1/8" = 1'-0" **1**

KEYED NOTES

#	DESCRIPTION
B8	SCHEDULED ROOFING SYSTEM ON 1/2" COVER BOARD ON 5" MINIMUM (R-25) THICKNESS EXTRUDED POLYISOCYANURATE BOARD, RE: SPECS.
B9	PREFINISHED METAL COPING WITH CONTINUOUS CLEAT
B14	TDI CERTIFIED 3'x3' PREFINISHED METAL ROOF HATCH WITH WALL MOUNTED LADDER
B16	WALL MOUNTED HEAVY DUTY ALUM. ACCESS LADDER WITH ROOFOVER RAIL EXTENSIONS
C2	DRINKING FOUNTAINS WITH HYDRATION STATION
C6	CLEAR ANODIZED ALUMINUM FINISH SURFACE MOUNTED FIRE EXTINGUISHER CABINET
C16	RIGID GALV. PIPE WITH SWIVEL PIPE AT TOP
C28	PAINTED GYP. BD. CONTROL JOINTS

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PGAL PROJECT NUMBER

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SHEET TITLE

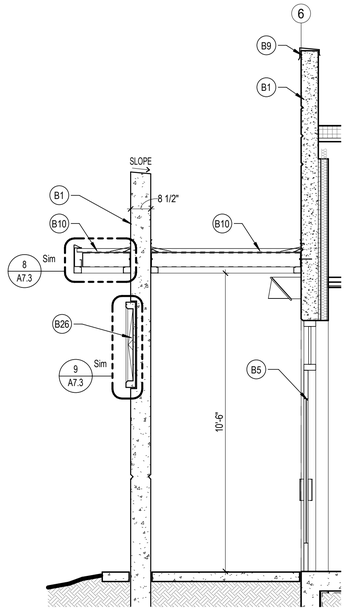
BUILDING SECTION

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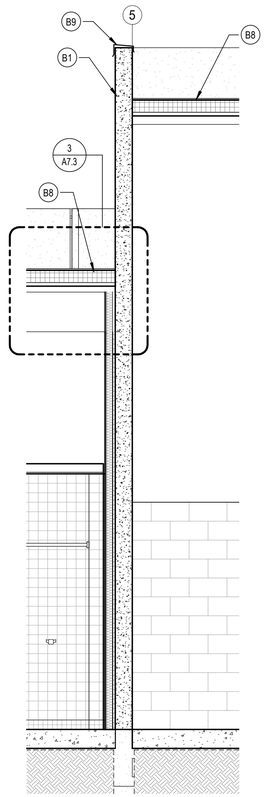
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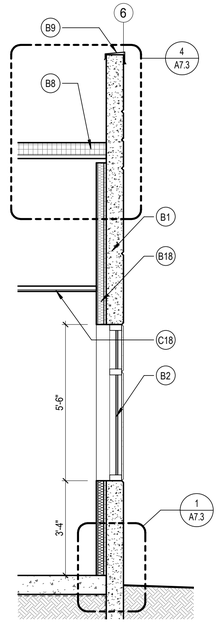
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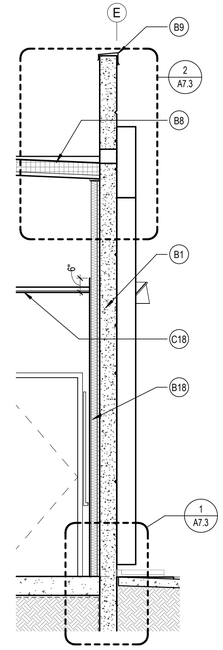
NORTH ENTRANCE WALL SECTION 3/8" = 1'-0" 4



WALL SECTION AT LOW ROOF 3/8" = 1'-0" 3



WALL SECTION AT WINDOW 3/8" = 1'-0" 2



EXT. WALL SECTION AT OFFICE 3/8" = 1'-0" 1

GENERAL NOTES

.

KEYED NOTES

#	DESCRIPTION
B1	CAST IN PLACE CONCRETE TILT-UP WALL PANEL WITH ELASTOMERIC COATING AT ALL EXPOSED SURFACE
B2	ANODIZED ALUMINUM LOW E TINTED IMPACT RESISTANT WINDOW & FRAME
B5	ANODIZED ALUMINUM IMPACT RESISTANT STOREFRONT SYSTEM
B8	SCHEDULED ROOFING SYSTEM ON 1/2" COVER BOARD ON 5" MINIMUM (R-25) THICKNESS EXTRUDED POLYISOCYANURATE BOARD, RE: SPECS.
B9	PREFINISHED METAL COPING WITH CONTINUOUS CLEAT
B10	PRE-ENGINEERED PREFINISHED ALUMINUM CANOPY
B18	1" THINK CONTINUOUS POLYISOCYANURATE RIGID INSULATION BOARD (WITH FOIL FACED, R VALUE 5.7 MIN.) ON 2-1/2" METAL STUDS WITH UNFACED BATT INSULATION AT 16" O.C. ON PAINTED 5/8" GYP. BOARD
B26	PRECAST CONCRETE STAR
C18	SCHEDULED CEILING

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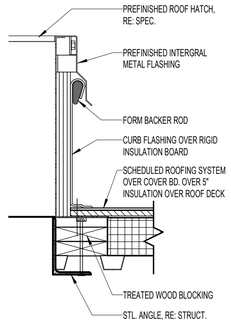
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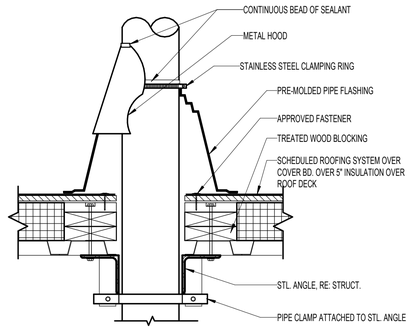
WALL SECTIONS

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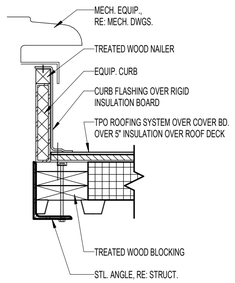
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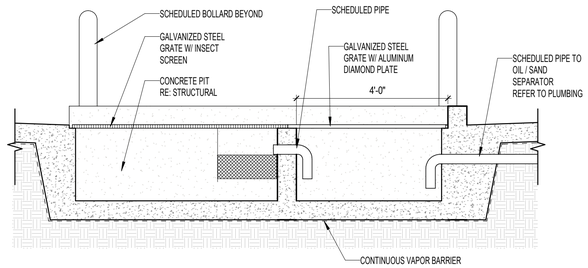
ROOF TOP HATCH 1 1/2" = 1'-0" 14



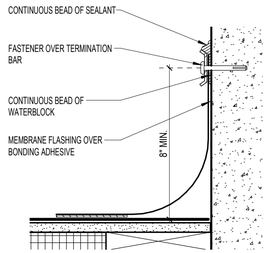
ROOF TOP FLUE DETAIL 1 1/2" = 1'-0" 13



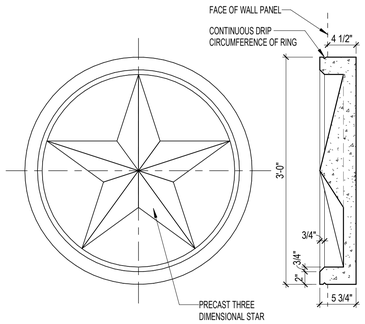
ROOF TOP EQUIP. CURB 1 1/2" = 1'-0" 12



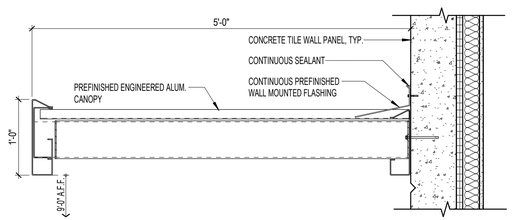
WASH BAY DRAIN PIT SECTION 1/2" = 1'-0" 11



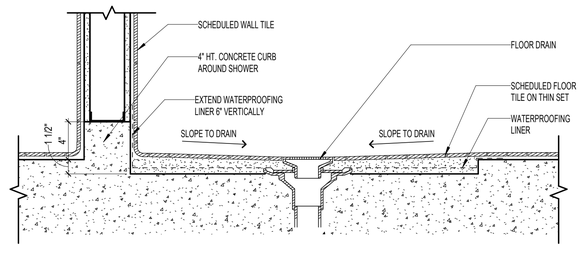
ROOF TERMINATION BAR DETAIL 3" = 1'-0" 10



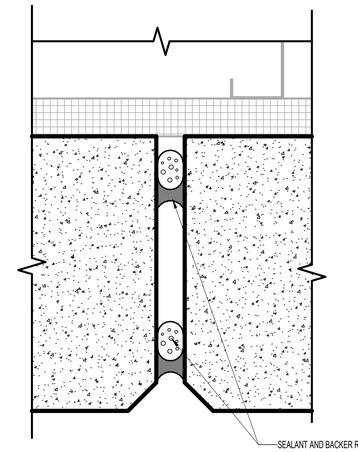
PRE-CAST STAR 1" = 1'-0" 9



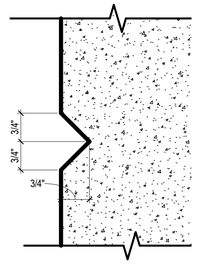
CANOPY SECTION 1" = 1'-0" 8



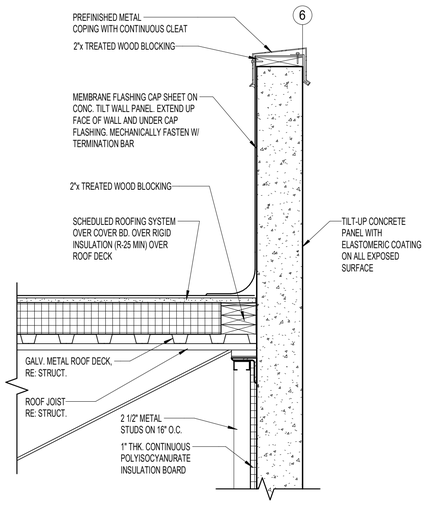
SHOWER DETAIL 1 1/2" = 1'-0" 7



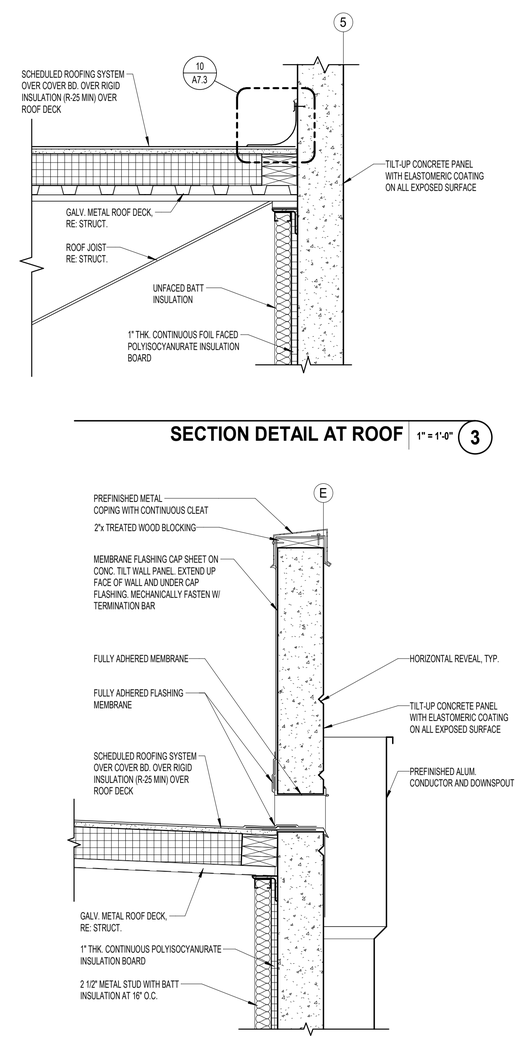
TILT-UP PANEL JOINT 6" = 1'-0" 6



TYPICAL TILT UP PANEL REVEAL 6" = 1'-0" 5

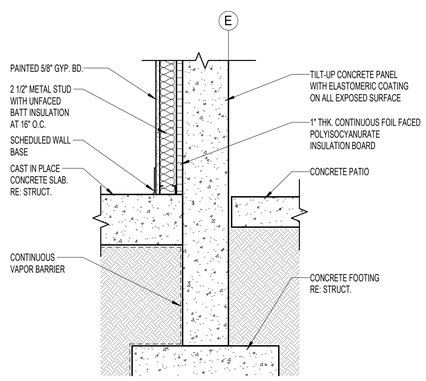


TILT-UP PARAPET WALL DETAIL 1" = 1'-0" 4



SECTION DETAIL AT ROOF 1" = 1'-0" 3

OFFICE PARAPET DETAIL 1" = 1'-0" 2



SECTION DETAIL AT GRADE 1" = 1'-0" 1

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REGISTERED ARCHITECT MICHAEL LLOYD 18250 STATE OF TEXAS

5-10-2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
	12-6-2018	ISSUE FOR DESIGN DEVELOPMENT
	3-12-2019	ISSUE FOR 95% CD REVIEW
	4-12-2019	95% CONSTRUCTION DOCUMENTS
	5-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

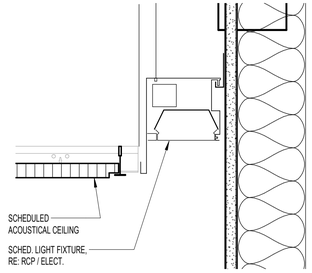
SHEET TITLE

CONSTRUCTION DETAILS

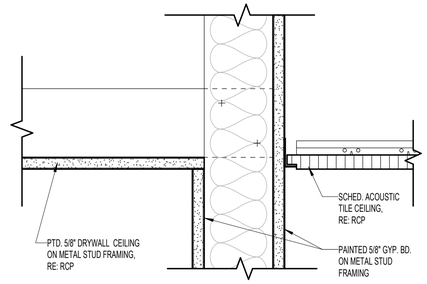
SHEET NUMBER

A7.3

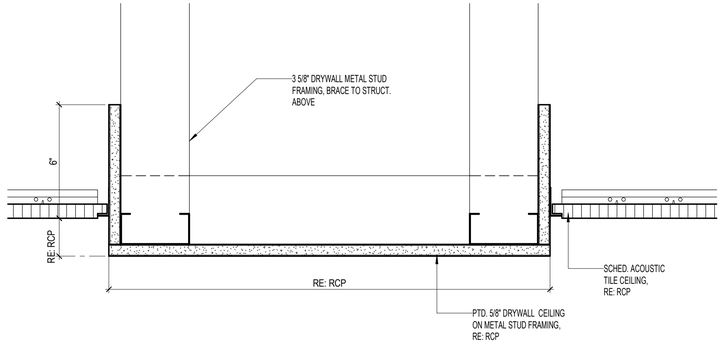
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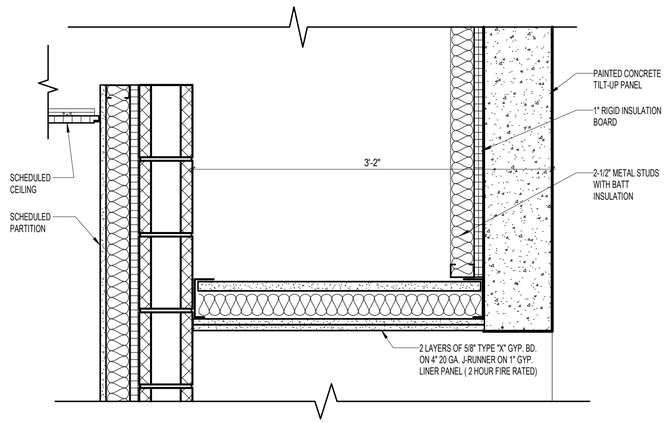
PERIMETER LIGHT AT RESTROOM 3" = 1'-0" 8



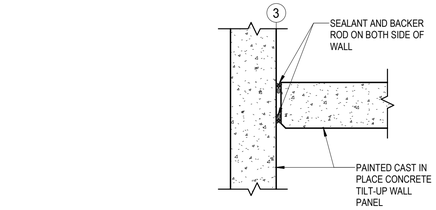
GYP. BD. CEILING DETAIL 3" = 1'-0" 7



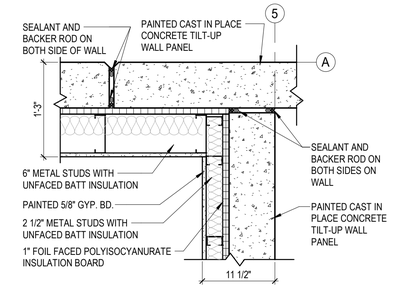
BULKHEAD CEILING DETAIL 3" = 1'-0" 6



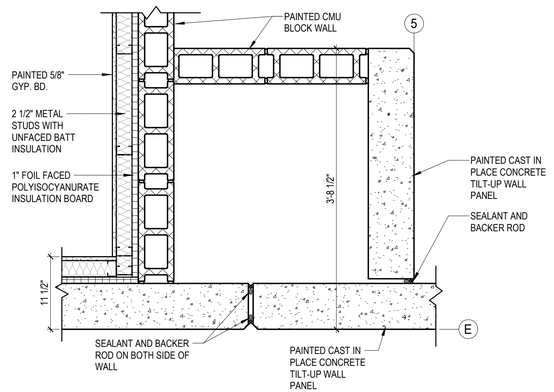
CEILING DETAIL AT SHOP 1 1/2" = 1'-0" 9



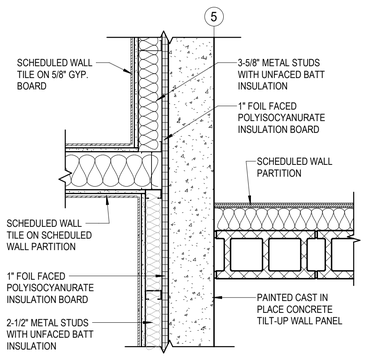
CONCRETE PANEL CONNECTION 1" = 1'-0" 4



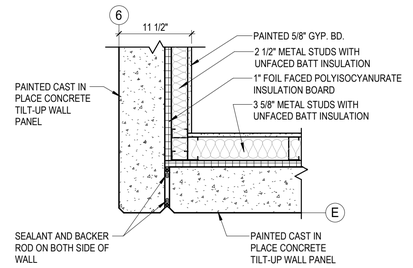
WALL PANEL CONNECTION 1" = 1'-0" 3



WALL PANEL AT CMU 1" = 1'-0" 2



WALL PANEL INSIDE CORNER 1" = 1'-0" 5



TYPICAL OUTSIDE CORNER 1" = 1'-0" 1

CLIENT

Texas Department of Transportation

125 E. 11th Street. Austin, TEXAS 78701-2483

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1401 FM 3036
ROCKPORT, TX
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SHEET TITLE

INTERIOR DETAILS

SHEET NUMBER

A7.4

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ACOUSTICAL NOTES

1. ALL ACOUSTICALLY CLASSED PARTITIONS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE TO THE REFERENCED TEST.
2. STAGGER AND SEAL ALL JOINTS ON MULTIPLE GYPSUM BOARD LAYER PARTITIONS.
3. SEAL ALL PERIMETER GAPS, AIR TIGHT, AT THE FLOORS, HEAD, ADJACENT CONSTRUCTION AND AROUND ANY PENETRATING ELEMENTS WITH INTERIOR GRADE ACOUSTICAL SEALANT.
4. ALL BATTS AND BLANKETS IN RATED WALLS MUST BEAR THE REQUIRED U.L. CLASSIFICATION MARKING AS TO FIRE-RESISTANCE.
5. AT ACOUSTICALLY RATED PARTITIONS, DO NOT FILL THE STUD CAVITY (DEPTH) FULLY WITH SOUND BATTS. THE WIDTH OF THE SOUND BATTS SHOULD BE SLIGHTLY SMALLER THAN CAVITY TO AVOID BATTS COMPRESSION. HOWEVER, THE ENTIRE LENGTH AND HEIGHT OF THE WALL SHOULD HAVE CONTINUOUS AND UNINTERRUPTED SOUND ATTENUATION BATTS.
7. SEAL ALL WALL INTERSECTIONS AND CONTROL JOINTS AT ACOUSTICALLY CLASSED PARTITIONS
8. SEAL ALL CONDUIT, STRUCTURAL, DUCT AND LARGE PIPE PENETRATIONS UNLESS THE PARTITION IS ALSO FIRE RATED WHERE
9. OUTLETS ON OPPOSITE SIDES OF ACOUSTICALLY CLASSED PARTITIONS .

FIRE RATING NOTES

1. UNDERWRITERS LABORATORY AND OTHER TESTING AGENCY DESIGNATIONS INDICATED FOR FIRE RESISTIVE CONSTRUCTION ARE GIVEN FOR PURPOSES OF DESCRIBING CONSTRUCTION REQUIREMENTS ONLY AND ARE NOT INTENDED TO LIMIT MANUFACTURERS OF MATERIALS. COMPLY WITH THE CONSTRUCTION REQUIREMENTS OF THE INDICATED DESIGN.
2. ALL PARTITION TYPES SHOWN HERE ARE DRAWN AS "NON FIRE-RATED". WHERE FIRE RESISTIVE WALL CONSTRUCTION IS INDICATED, ON THE FLOOR PLANS, PROVIDE "TYPE X" GYPSUM WALLBOARD. AND FIRE RATED SEALANT AT PERIMETER JOINTS AND ALL PENETRATIONS, TYPICAL BOTH SIDES OF PARTITION AS INDICATED ON THE U.L. DETAILS AND ASSEMBLIES.
3. ALL WALLS REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE PERMANENTLY IDENTIFIED AS SUCH IN ACCORDANCE WITH SECTION 703.7 IBC 2012

GYPSUM BOARD PARTITION PRIORITY LEGEND

PARTITION	DOOR RATING	PRIORITY
FOUR HOUR FIRE PARTITION	3 HOUR - A LABEL	PRIORITY 1 - HIGHEST
TWO HOUR FIRE/SMOKE PARTITION	1 1/2 HOUR - B LABEL	PRIORITY 2
TWO HOUR FIRE PARTITION	1 1/2 HOUR - B LABEL	PRIORITY 3
ONE HOUR FIRE/SMOKE PARTITION	3/4 HOUR - C LABEL	PRIORITY 4
ONE HOUR FIRE PARTITION	3/4 HOUR - C LABEL	PRIORITY 5
ONE HOUR FIRE PARTITION	20 MIN RATING	PRIORITY 6
NON-RATED PARTITION	NONE	PRIORITY 7 - LOWEST

PARTITION LEGEND

THE FIRST TWO DIGITS OF EACH PARTITION TYPE TAG DESCRIBE THE TYPE OF PARTITION, THE THIRD DIGIT/LETTER INDICATES THE NOMINAL THICKNESS OF THE METAL STUD OR MASONRY. THE LAST NUMERIC DIGIT INDICATES THE HOURLY "FIRE RESISTIVE RATING" REQUIRED OF THAT PARTITION.

PARTITION TAG: B1 4 0

TYPE OF PARTITION:
- "A" = MTL STUD-SINGLE LAYER GYP. WALL
- "B" = MTL STUD-MULTI LAYBER GYP. WALL
- "C" = CHASE WALL
- "F" = FURRING WALL
- "M" = MASONRY OR MASONRY W/ FURRING
- "P" = PARTIAL HEIGHT STUD WALL
- "S" = SHAFT WALL
- "T" = TEMPORARY WALL
- "Y" = SECURITY WALL

THICKNESS OF PARTITION FRAMING COMPONENT:
- "0" = 7/8" METAL STUD
- "1" = 1 5/8" METAL STUD
- "2" = 2 1/2" METAL STUD
- "3" = 3 5/8" METAL STUD
- "4" = 4" METAL STUD, 3 5/8" CMU, 3 1/2" WOOD
- "6" = 6" METAL STUD, 5 5/8" CMU, 5 1/2" WOOD
- "8" = 8" METAL STUD, 7 5/8" CMU, 7 1/2" WOOD
- "12" = 11 5/8" CMU, 11 1/4" WOOD

FIRE RATING REQUIREMENT ("0" or BLANK FOR NO RATING)
- "0"= NO RATING
- "5"= 30 MIN. RATING
- "1"= 1 HR RATING
- "2"= 2 HR RATING
- "3"= 3 HR RATING

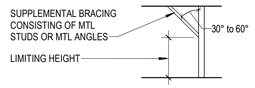
GENERAL NOTES

1. ALL POSSIBLE VARIATIONS OF PARTITIONS TYPES AND U.L. FIRE RATINGS ARE NOT NECESSARILY UTILIZED IN THIS PROJECT AND ARE SHOWN FOR REFERENCE ONLY UNLESS RATED PARTITIONS ARE INDICATED ON THE FLOOR PLANS. WHERE U.L. RATED PARTITIONS ARE INDICATED, REFER TO FLOOR PLANS AND PROVIDE FIRE SEALANT AT THOSE LOCATIONS AS REQUIRED.
2. WHERE FULL HEIGHT PARTITIONS ARE PERPENDICULAR TO SPAN OF STRUCTURAL JOISTS OR GIRDERS, THE PARTITION SHALL EXTEND TO THE UNDERSIDE OF STRUCTURE AND FOLLOW THE LINE OF STRUCTURE.
3. PROVIDE CEMENTITIOUS BACKER BOARD ON ALL WALLS TO RECEIVE CERAMIC TILE FINISH. PROVIDE WATER RESISTANT GYPSUM PANELS ON CEILINGS IN ROOMS THAT INCLUDE SHOWERS. FRAMING NOT TO EXCEED SPACING RECOMMENDED BY MANUFACTURER.
4. PROVIDE ONE LAYER OF 5/8" MOISTURE RESISTANT GYPSUM BOARD AT WALLS BEHIND SINKS AND LAVATORIES WITHOUT TILE. MOISTURE RESISTANT GYPSUM BOARD SHALL BE INSTALLED WITHIN 2' OF ALL URINALS AND WATER CLOSETS, TO A HEIGHT OF 4' AFF.
5. WHERE FIRE RESISTIVE CONSTRUCTION IS INDICATED, PROVIDE TYPE X-W/R BOARD. IN CONDITIONS WHERE NOTE 3 AND 4 APPLY, INSTALL 1 LAYER OF APPLICABLE MOISTURE RESISTANT BOARD OR CEMENTITIOUS BACKER BOARD OVER THE TYPE X-W/R BOARD. INSTALL PER MANUFACTURER LIMITATIONS.
6. STC RATINGS SHOWN FOR SOUND WALLS ARE BASED ON LABORATORY TESTED ASSEMBLIES AND DO NOT NECESSARILY INDICATE THE ACTUAL STC RATING OF THE COMPLETED WORK. PROVIDE MTL. DECK FILLERS WHERE FULL HEIGHT PARTITIONS ARE PERPENDICULAR TO SPAN OF DECK. DECK FILLERS ARE TO BE COMPATIBLE WITH ALL FIRE RATED ASSEMBLIES AND ARE TO BE APPROVED BY ALL GOVERNING AGENCIES.
7. PROVIDE FIRE TREATED WOOD BLOCKING, SHEET METAL OR STEEL BACKING IN PARTITIONS TO SUPPORT WALL MOUNTED ITEMS AND EQUIPMENT, ETC.
8. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. ALL WALLS REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE PERMANENTLY IDENTIFIED AS SUCH IN ACCORDANCE WITH SECTION 703.7 IBC 2012

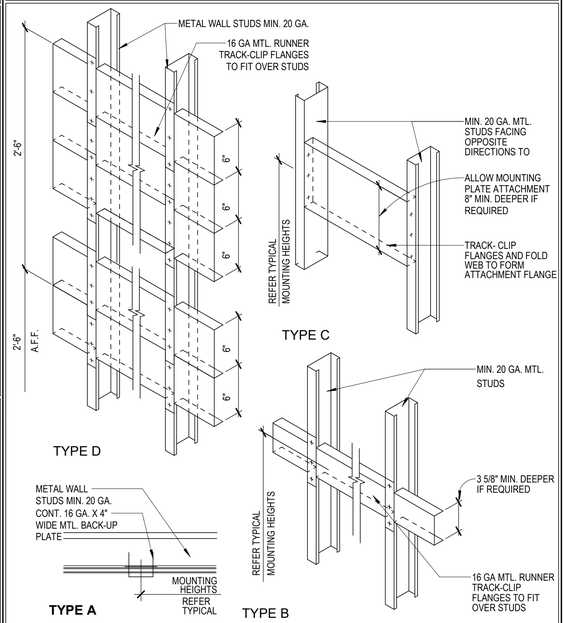
COLD FORMED FRAMING NOTES

ALL METAL STUDS TO BE 20 ga. AND PLACED AT 16 INCHES 0.C. UNLESS NOTED OTHERWISE OR WHERE THE LIMITING HEIGHT REQUIRES 16ga AT 16" O.C.

1. ALL FURRING CHANNELS TO BE 25 ga. AND PLACED AT 16 INCHES 0.C. UNLESS NOTED OTHERWISE.
2. PARTITIONS SUPPORTING WALL HUNG PLUMBING FIXTURES SHALL BE 16 ga. AND PLACED 16 INCHES O.C.
3. REFER TO STRUCTURAL DRAWINGS FOR STUD ga. SIZE AND SPACING FOR ALL STRUCTURALLY DESIGNED PARTITIONS.
4. REFER TO ASTM C754 FOR LIMITING HEIGHTS CRITERIA. LIMITING HEIGHTS ARE TO BE DETERMINED BY DEFLECTION CRITERIA RATIO OF L/240, AND LATERAL PRESSURE OF 5 PSF UNLESS NOTED OTHERWISE OR DICTATED OTHERWISE BY PRESIDING BUILDING CODE. WHERE FLOOR TO STRUCTURE HEIGHT OF PARTITION EXCEEDS THE INDICATED LIMITING HEIGHT, PROVIDE SUPPLEMENTAL BRACING TO THE STRUCTURE OVERHEAD AS REQUIRED TO MAINTAIN REQUIRED DEFLECTION RATIO.
5. FOR PARTITIONS WITH "BRITTLE" FINISHES SUCH AS PLASTER AND CERAMIC TILE, DESIGN PARTITION SYSTEM TO MAINTAIN DEFLECTION RATIO WITHIN L/360. SUSPENDED CEILINGS SHALL NOT BE CONSIDERED AS BRACING.



PARTITION DETAILS



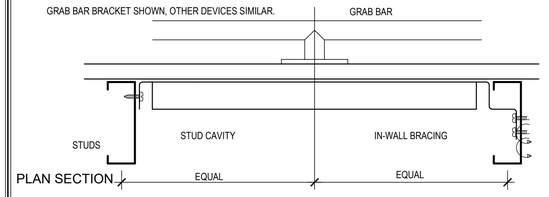
MOUNTING SUPPORT DETAILS

SCALE: NONE

PROVIDE IN-WALL BRACING IN ALL PARTITIONS OR EXTERIOR WALLS WHERE GRAB BARS, HANDRAILS, SHOWER SEATS OR OTHER EQUIPMENT ANCHORS TO METAL STUD WALLS AND IN OTHER LOCATIONS AS NOTED ON THE DRAWINGS.

CENTER STUDS ABOUT THE LOCATION OF THE DEVICE ANCHOR POINT.

GRAB BAR BRACKET SHOWN, OTHER DEVICES SIMILAR.



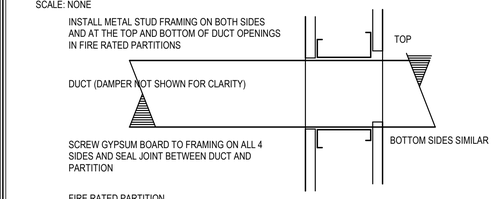
PLAN SECTION

IN-WALL BRACING SHALL BE NO LESS THAN A 6" x 1 1/4" x 14 GUAGE CHANNEL, STEEL Fy = 50ksi, AND SHALL SUPPORT A 250 POUND GRAVITY LOAD CONCENTRATED AT ANY POINT ON THE DEVICE BEING ANCHORED.

16 GA.x4" WIDE MTL BACKUP PLATE MAY BE USED

IN-WALL BRACING

SCALE: NONE

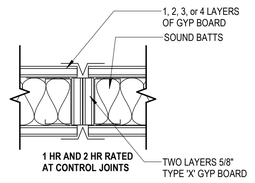


SECTION ABOVE CEILING

DUCT PENETRATIONS

SCALE: NONE

FIREWALL PARTITION DETAIL



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125 E. 11th Street. Austin, TEXAS 78701-2483

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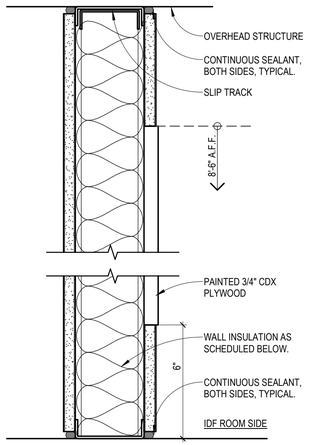
SHEET TITLE

PARTITION TYPES NOTES

SHEET NUMBER

A8.0

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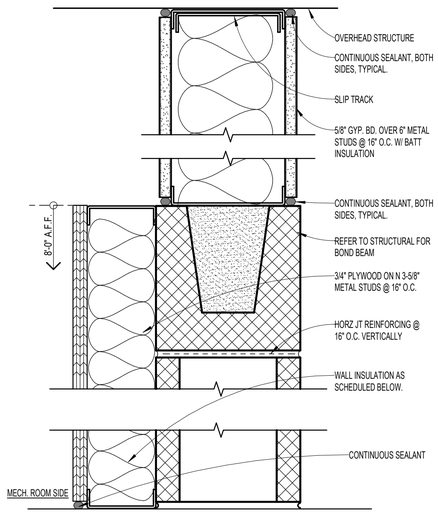


PARTITION TYPE E1: METAL STUDS WITH ONE LAYER 5/8" GYP. BD. / PLYWOOD, 2 1/2" ACOUSTICAL INSULATION FULL HEIGHT. (RE: UL DESIGN)

REFER TO ROOM FINISH SCHEDULE FOR WALL & BASE FINISH

PARTITION TYPE E1

Type Mark				Wall		Fire			
Type	Stud #	F.R.	Insul	Depth	Gyp Width	Rating	UL Code	STC #	Comments
E1	3	0	Yes	5"	5/8"	--	-	--	

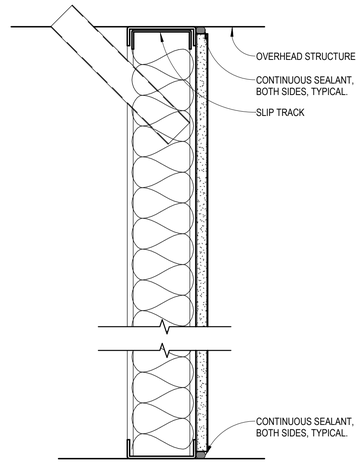


PARTITION TYPE M2: GROUT FILLED CMU WITH METAL STUDS OVER 3/4" PLYWOOD

REFER TO ROOM FINISH SCHEDULE FOR WALL & BASE FINISH

PARTITION TYPE M2

Type Mark				Wall		Fire			
Type	Stud #	F.R.	Insul	Depth	Gyp Width	Rating	UL Code	STC #	Comments
M2	8	1	Yes	1'-0"	5/8"	1HR	U906	--	

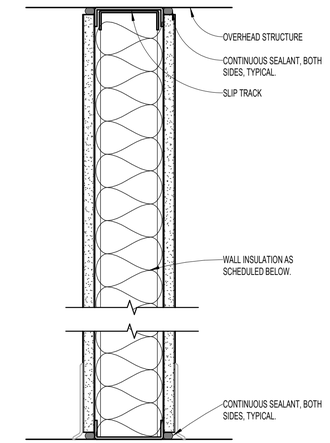


PARTITION TYPE F1: METAL STUDS WITH ONE LAYER OF 5/8" GYP BD.

REFER TO ROOM FINISH SCHEDULE FOR WALL & BASE FINISH

PARTITION TYPE F1

Type Mark				Wall		Fire			
Type	Stud #	F.R.	Insul	Depth	Gyp Width	Rating	UL Code	STC #	Comments
F1	3	0	No	4 1/4"	5/8"	0HR	--	--	
F1	6	0	No	6 5/8"	5/8"	0HR	--	--	

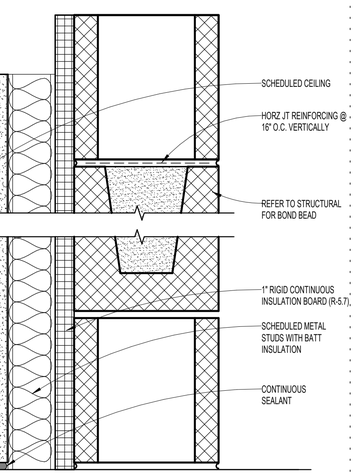


PARTITION TYPE A2: METAL STUDS WITH ONE LAYER 5/8" GYP. BD. EACH SIDE, AND 2 1/2" ACOUSTICAL INSULATION FULL HEIGHT. (RE: UL DESIGN)

REFER TO ROOM FINISH SCHEDULE FOR WALL & BASE FINISH

PARTITION TYPE A2

Type Mark				Wall		Fire			
Type	Stud #	F.R.	Insul	Depth	Gyp Width	Rating	UL Code	STC #	Comments
A2	3	0	Yes	4 7/8"	5/8"	--	-	--	
A2	6	0	Yes	7 1/4"	5/8"	1HR	U465	54	
A2	6	1	No	7 1/4"	5/8"	1HR	U465	54	

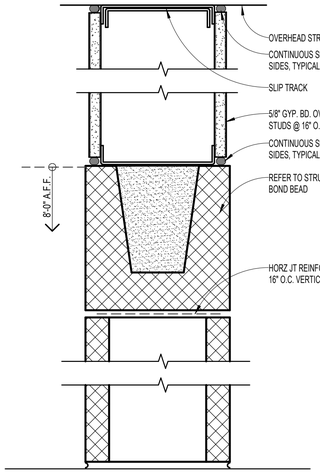


PARTITION TYPE M3: GROUT FILLED CMU WITH ONE LAYER 5/8" GYP. BD. OVER 2-1/2" VERTICAL METAL STUDS AND 1" RIGID INSULATION

REFER TO ROOM FINISH SCHEDULE FOR WALL & BASE FINISH

PARTITION TYPE M3

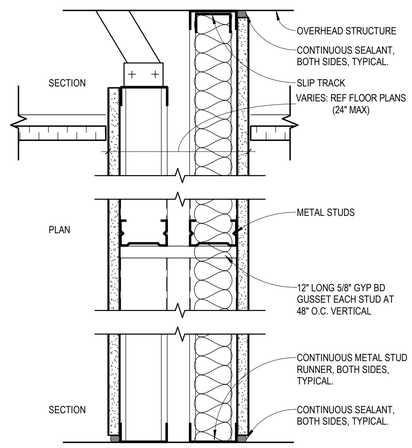
Type Mark				Wall		Fire			
Type	Stud #	F.R.	Insul	Depth	Gyp Width	Rating	UL Code	STC #	Comments
M3	6	2	Yes	9 3/4"	5/8"	2HR	U906	--	



PARTITION TYPE M1: GROUT FILLED CMU

PARTITION TYPE M1

Type Mark				Wall		Fire			
Type	Stud #	F.R.	Insul	Depth	Gyp Width	Rating	UL Code	STC #	Comments
M1	6	0	No	5 5/8"	N/A	0HR	U906	--	
M1	8	0	No	7 5/8"	N/A	0HR	U906	--	
M1	8	1	No	7 5/8"	N/A	2HR	U906	--	

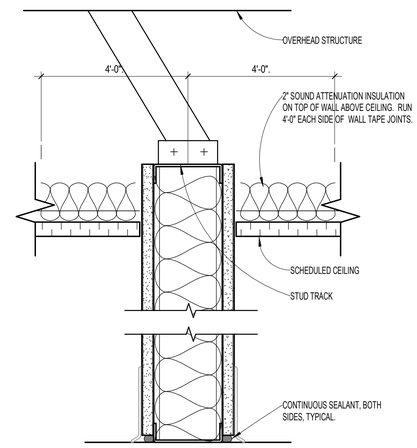


PARTITION TYPE C1: TWO METAL STUDS AND ONE LAYER OF 5/8" GYP. BOARD ON EACH SIDE AND ACOUSTICAL BATT INSULATION FULL WIDTH OF STUD, FULL HEIGHT (RE: UL DESIGN).

REFER TO ROOM FINISH SCHEDULE FOR WALL & BASE FINISH

PARTITION TYPE C1

Type Mark				Wall		Fire			
Type	Stud #	F.R.	Insul	Depth	Gyp Width	Rating	UL Code	STC #	Comments
C1	3	0	Yes	1'-9"	5/8"	0HR	U420	50	



PARTITION TYPE A1: METAL STUDS WITH ONE LAYER 5/8" GYP. BD. ON EACH SIDE, AND 2 1/2" ACOUSTICAL INSULATION TO BOTTOM OF SCHEDULED CEILING AND HORIZONTALLY ABOVE CEILING.

REFER TO ROOM FINISH SCHEDULE FOR WALL & BASE FINISH

PARTITION TYPE A1

Type Mark				Wall		Fire			
Type	Stud #	F.R.	Insul	Depth	Gyp Width	Rating	UL Code	STC #	Comments
A1	3	0	No	4 7/8"	5/8"	--	-	--	
A1	6	0	No	7 1/4"	5/8"	--	--	--	

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PLOT STAMP: 5/10/2019 11:22:18 AM

CLIENT

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REGISTRATION

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REGISTERED ARCHITECT MICHAEL L LOYD 18250 STATE OF TEXAS

5-10-2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
	12-6-2018	ISSUE FOR DESIGN DEVELOPMENT
	3-12-2019	ISSUE FOR 95% CD REVIEW
	4-12-2019	95% CONSTRUCTION DOCUMENTS
	5-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

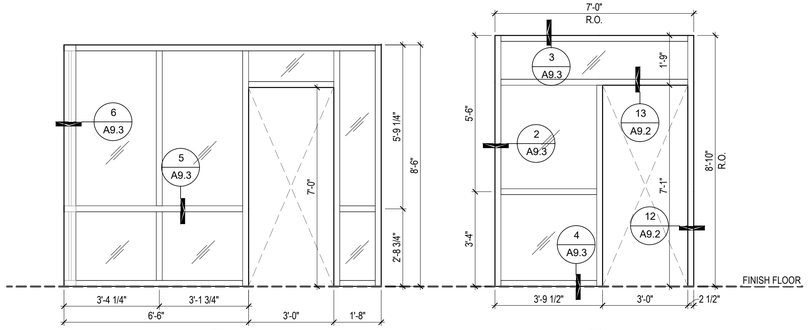
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SHEET TITLE

PARTITION TYPES

SHEET NUMBER

A8.1

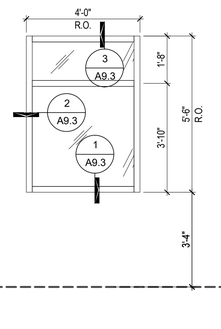


B

CLEAR ANODIZED ALUMINUM STOREFRONT
WITH CLEAR 1/4" TEMPERED GLASS

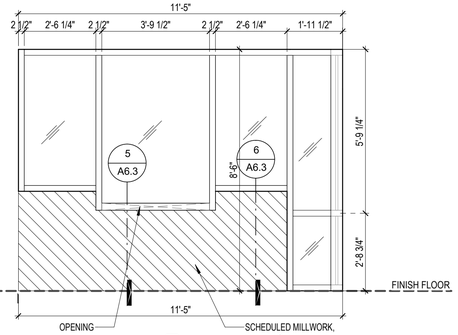
A

CLEAR ANODIZED ALUMINUM STOREFRONT WITH LOW-E
INSULATED TINTED GLAZING
(IMPACT RESISTANT SYSTEM)



D

CLEAR ANODIZED ALUMINUM WINDOW FRAME WITH
LOW-E INSULATED TINTED GLAZING
(IMPACT RESISTANT SYSTEM)



C

CLEAR ANODIZED ALUMINUM STOREFRONT
WITH CLEAR 1/4" TEMPERED GLASS

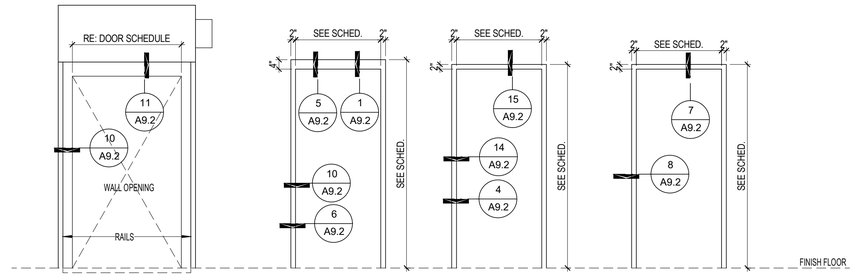
WINDOW NOTES

1. ALL EXTERIOR WINDOWS ARE TO BE IMPACT RESISTANT (WINDOW FRAME AND GLAZING)
2. REFER TO FLOOR PLAN FOR LOCATIONS OF WINDOWS
3. PROVIDE SILICONE SEALANT OVER BACKER ROD AROUND ALL FRAMES.
4. DIMENSIONS SHOWN ON WINDOWS TYPES ARE ROUGH OPENINGS. CONTRACTOR SHALL DETERMINE ACTUAL FRAME SIZE.
5. PROVIDE TEMPERED GLASS WHERE REQUIRED BY IBC OR LOCAL CODE OFFICAL.
6. ALL LOUVERS ARE TO BE 4" DEEP PREFINISHED EXTRUDED ALUMINUM DRAINABLE STATIONARY LOUVERS WITH 50% OR MORE FREE AREA

DOOR SCHEDULE

Data	Panel						Frame							General		
	Size									Details on A0.35 UNO						
Mark	Width	Height	THK	Matl	Panel	Finish	Matl	Type	Finish	Jamb	Head	Sill	Fire Rating	HDWR	Remarks
100	3'-0"	7'-1"	1 3/4"	AL	SF	ANODIZED	AL	000	ANODIZED					WC715A	
100A	3'-0"	7'-0"	1 3/4"	AL	SF	ANODIZED	AL	000	ANODIZED					CR711AC	
106	3'-0"	7'-0"	1 3/4"	WD	F	PLAM	AL	001	ANODIZED					501	
108	3'-0"	7'-0"	1 3/4"	WD	F	PLAM	AL	001	ANODIZED					103	
110	3'-0"	7'-0"	1 3/4"	WD	F	PLAM	AL	001	ANODIZED					103	
112	3'-0"	7'-0"	1 3/4"	HM	NV	PAINTED	HM	002	PAINTED					WC715	IMPACT RESISTANT DOOR & FRAME
116	3'-0"	7'-0"	1 3/4"	WD	F	PLAM	AL	001	ANODIZED					801	
120	3'-0"	7'-0"	1 3/4"	WD	F	PLAM	AL	001	ANODIZED					801	
122	3'-0"	7'-0"	1 3/4"	WD	F	PLAM	AL	001	ANODIZED					801	
122A	3'-0"	7'-0"	1 3/4"	WD	F	PLAM	AL	001	ANODIZED					801	
124	3'-0"	7'-0"	1 3/4"	HM	NV	PAINTED	HM	002	PAINTED				90 MIN.	C201CR	90 MIN. FRAME AND DOOR W/ VISION PANEL
126	3'-0"	7'-0"	1 3/4"	WD	NV	PLAM	AL	001	ANODIZED					501	
126A	3'-0"	7'-0"	1 3/4"	HM	NV	PAINTED	HM	002	PAINTED					WC715	IMPACT RESISTANT DOOR & FRAME
128	3'-0"	7'-0"	1 3/4"	WD	F	PLAM	AL	001	ANODIZED					201	
130	3'-0"	7'-0"	1 3/4"	WD	F	PLAM	AL	001	ANODIZED					C201	
132	3'-0"	7'-0"	1 3/4"	HM	F	PAINTED	HM	002	PAINTED				90 MIN.	201R	90 MIN. DOOR AND FRAME
134	3'-0"	7'-0"	1 3/4"	HM	NV	PAINTED	HM	002	PAINTED					WC715	IMPACT RESISTANT DOOR & FRAME
134A	3'-0"	7'-0"	1 3/4"	HM	F	PAINTED	HM	003	PAINTED					701R	20 MIN. DOOR AND FRAME
134AA	14'-0"	14'-0"	1 3/4"	HS	OH	PAINTED	HS	004	PAINTED					001	MOTORIZED DOOR OPERATOR
134B	3'-0"	7'-0"	1 3/4"	HM	F	PAINTED	HM	003	PAINTED					501R	20 MIN. DOOR AND FRAME
134BB	14'-0"	14'-0"	1 3/4"	HS	OH	PAINTED	HS	004	PAINTED					001	MOTORIZED DOOR OPERATOR
136	3'-0"	7'-0"	1 3/4"	HM	F	PAINTED	HM	003	PAINTED				20 MIN.	201CR	20 MIN. DOOR AND FRAME
138	3'-0"	7'-0"	1 3/4"	HM	NV	PAINTED	HM	002	PAINTED					WC715	IMPACT RESISTANT DOOR & FRAME
138A	3'-0"	7'-0"	1 3/4"	HM	NV	PAINTED	HM	002	PAINTED					WC715	IMPACT RESISTANT DOOR & FRAME
138AA	12'-0"	10'-0"	1 3/4"	HS	OH	PAINTED	HS	004	PAINTED					001	MOTORIZED DOOR OPERATOR
138BB	14'-0"	14'-0"	1 3/4"	HS	OH	PAINTED	HS	004	PAINTED					001	MOTORIZED DOOR OPERATOR
140	3'-0"	7'-0"	1 3/4"	HM	NV	PAINTED	HM	002	PAINTED					WC715	IMPACT RESISTANT DOOR & FRAME
140A	3'-0"	7'-0"	1 3/4"	HM	NV	PAINTED	HM	002	PAINTED					WC715	IMPACT RESISTANT DOOR & FRAME
140AA	14'-0"	14'-0"	1 3/4"	HS	OH	PAINTED	HS	004	PAINTED					001	MOTORIZED DOOR OPERATOR
140BB	14'-0"	14'-0"	1 3/4"	HS	OH	PAINTED	HS	004	PAINTED					001	MOTORIZED DOOR OPERATOR
140CC	14'-0"	14'-0"	1 3/4"	HS	OH	PAINTED	HS	004	PAINTED					001	MOTORIZED DOOR OPERATOR
140DD	14'-0"	14'-0"	1 3/4"	HS	OH	PAINTED	HS	004	PAINTED					001	MOTORIZED DOOR OPERATOR
142	3'-0"	7'-0"	1 3/4"	HM	NV	PAINTED	HM	002	PAINTED					WC715	IMPACT RESISTANT DOOR & FRAME
142AA	14'-0"	14'-0"	1 3/4"	HS	OH	PAINTED	HS	004	PAINTED					001	MOTORIZED DOOR OPERATOR
142BB	14'-0"	14'-0"	1 3/4"	HS	OH	PAINTED	HS	004	PAINTED					001	MOTORIZED DOOR OPERATOR
144	3'-0"	7'-0"	1 3/4"	HM	NV	PAINTED	HM	002	PAINTED					WC715	IMPACT RESISTANT DOOR & FRAME
144A	3'-0"	7'-0"	1 3/4"	HM	F	PAINTED	HM	002	PAINTED					701C	
146	3'-0"	7'-0"	1 3/4"	HM	F	PAINTED	HM	002	PAINTED					701C	
146AA	10'-0"	10'-0"	1 3/4"	HS	OH	PAINTED	HS	004	PAINTED					001	MOTORIZED DOOR OPERATOR

NOTE: PROVIDE SILCONE SEALANT & BACKRE ROD AROUND ALL FRAMES



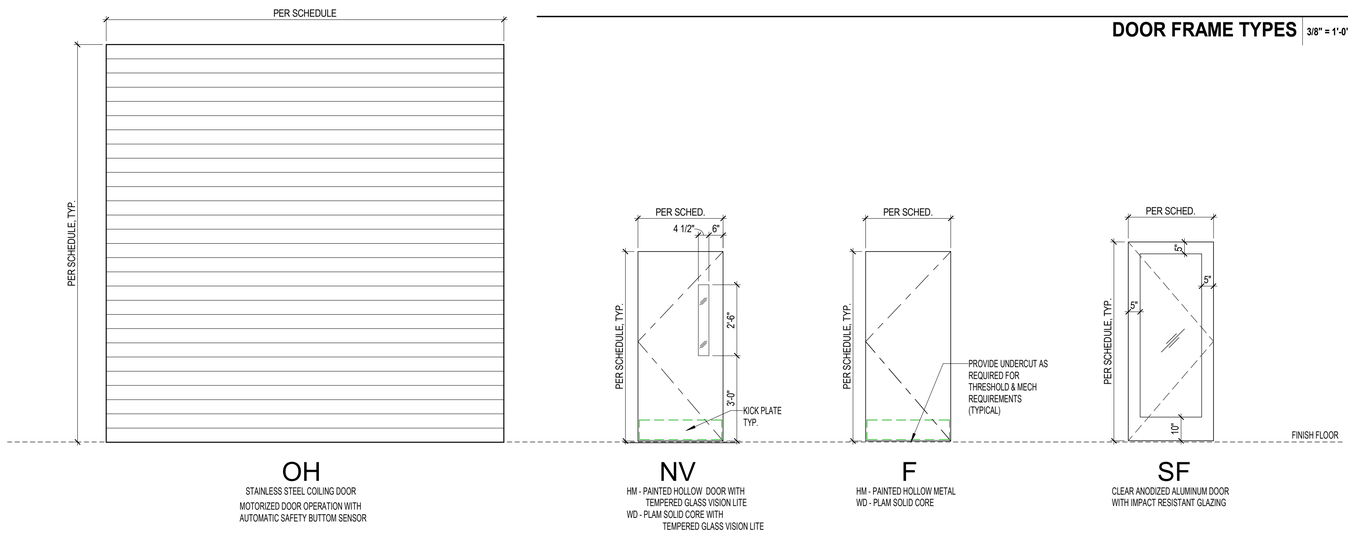
004
OVERHEAD COILING DOOR

003
PAINTED HOLLOW METAL FRAME

002
PAINTED HOLLOW METAL FRAME

001
CLEAR ANODIZED ALUMINUM FRAME

DOOR FRAME TYPES 3/8" = 1'-0" (2)



OH
STAINLESS STEEL COILING DOOR
MOTORIZED DOOR OPERATION WITH
AUTOMATIC SAFETY BUTTOM SENSOR

NV
HM - PAINTED HOLLOW DOOR WITH
TEMPERED GLASS VISION LITE
WD - PLAM SOLID CORE WITH
TEMPERED GLASS VISION LITE

F
HM - PAINTED HOLLOW METAL
WD - PLAM SOLID CORE

SF
CLEAR ANODIZED ALUMINUM DOOR
WITH IMPACT RESISTANT GLAZING

DOOR PANEL TYPES 3/8" = 1'-0" (1)

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REGISTERED ARCHITECT
MICHAEL LLOYD
18250
STATE OF TEXAS
5-10-2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
	12-6-2018	ISSUE FOR DESIGN DEVELOPMENT
	3-12-2019	ISSUE FOR 95% CD REVIEW
	4-12-2019	95% CONSTRUCTION DOCUMENTS
	5-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME
NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER
16-18700

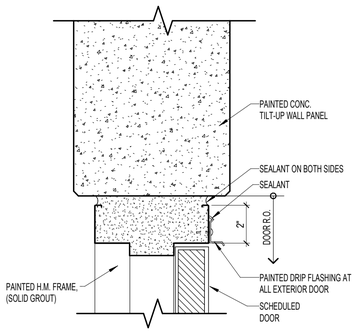
PROJECT LOCATION
1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER
1003526

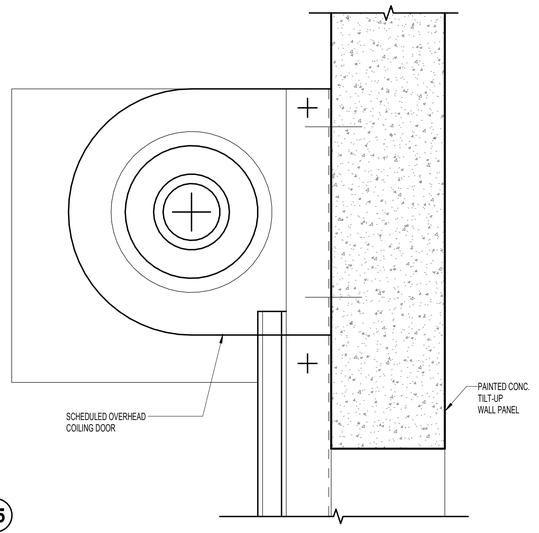
SHEET TITLE
DOOR SCHEDULE, TYPES & PROFILE. WINDOW PROFILES

SHEET NUMBER
A9.1

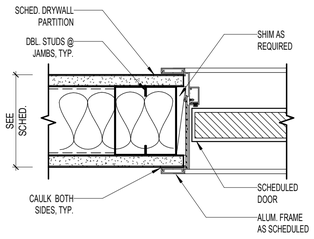
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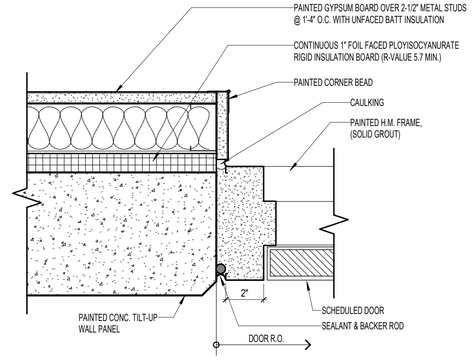
HM DOOR HEAD AT INT. TILT-UP WALL | 3" = 1'-0" | 15



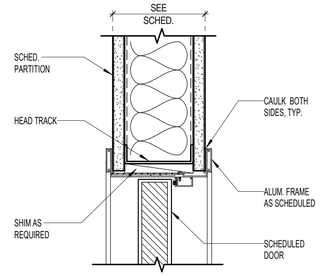
OH DOOR HEAD AT TILT-UP WALL | 3" = 1'-0" | 11



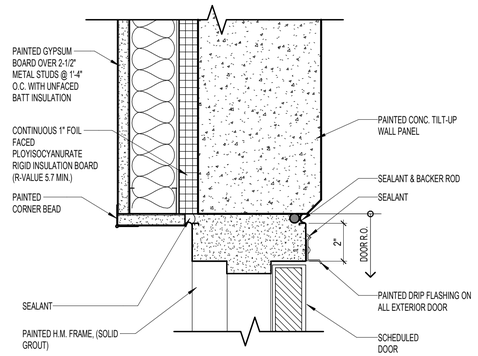
ALUM. DOOR JAMB AT GYP. BD. | 3" = 1'-0" | 8



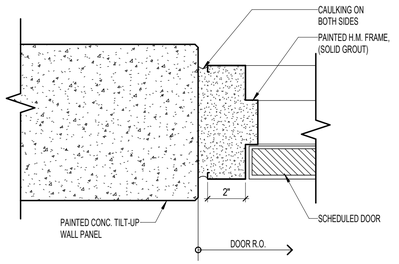
HM DOOR JAMB AT TILT-UP WALL | 3" = 1'-0" | 4



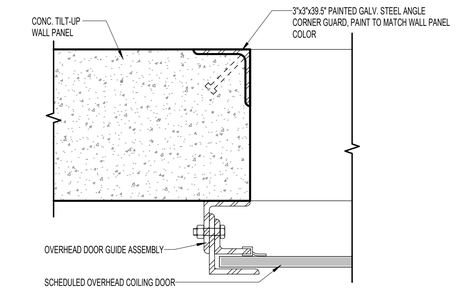
ALUM. DOOR HEAD AT GYP. BD. | 3" = 1'-0" | 7



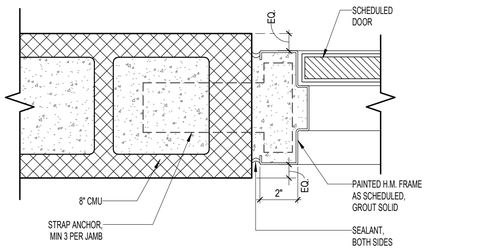
HM DOOR HEAD AT TILT-UP WALL | 3" = 1'-0" | 3



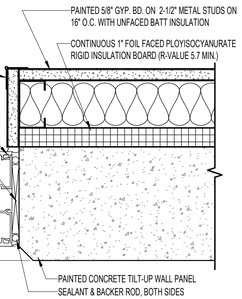
HM DOOR JAMB AT INT. TILT-UP WALL | 3" = 1'-0" | 14



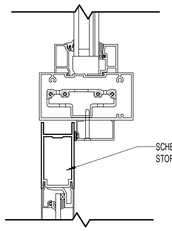
OH DOOR JAMB AT TILT-UP WALL | 3" = 1'-0" | 10



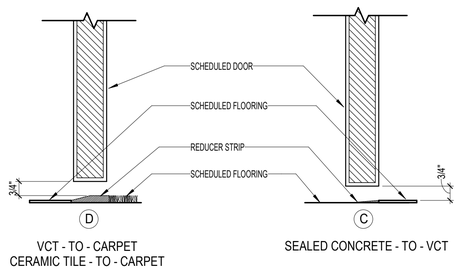
HM DOOR JAMB AT CMU | 3" = 1'-0" | 2

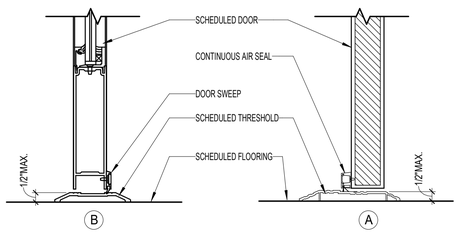


STOREFRONT DOOR JAMB | 3" = 1'-0" | 12

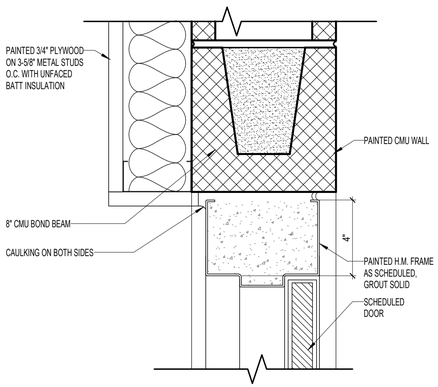


STOREFRONT DOOR HEAD | 3" = 1'-0" | 13



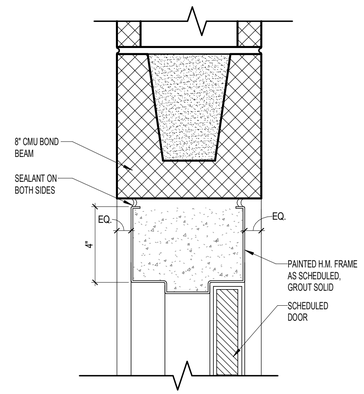


TYPICAL DOOR THRESHOLDS | 3" = 1'-0" | 9



HM DOOR JAMB AT CMU & GYP. BD. | 3" = 1'-0" | 6

HM DOOR HEAD AT CMU & GYP. BD. | 3" = 1'-0" | 5



HM DOOR HEAD AT CMU | 3" = 1'-0" | 1

CLIENT

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REGISTRATION

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REGISTERED ARCHITECT MICHAEL L LOYD 18250 STATE OF TEXAS

5-10-2019

DRAWING HISTORY

No.	DATE	DESCRIPTION
	12-6-2018	ISSUE FOR DESIGN DEVELOPMENT
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PROJECT NAME

NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

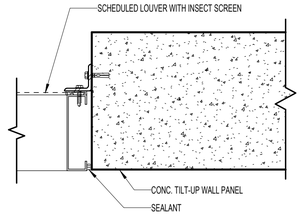
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DOOR DETAILS

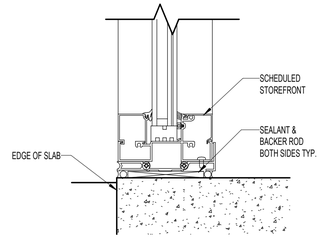
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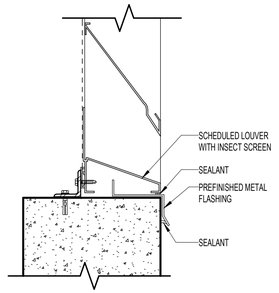
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PLOT STAMP: 5/9/2019 11:10:00 AM



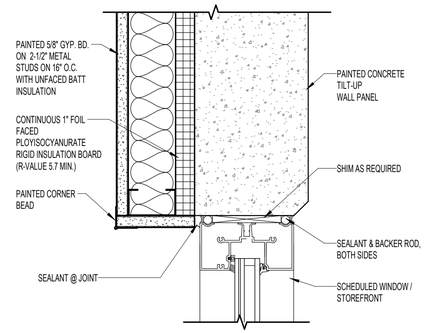
LOUVER JAMB 3" = 1'-0" 8



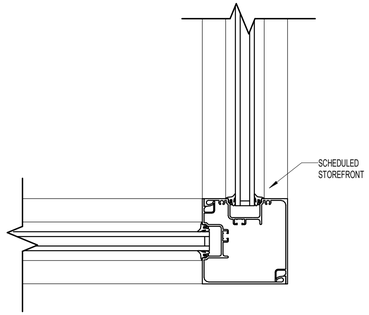
STOREFRONT SILL 3" = 1'-0" 4



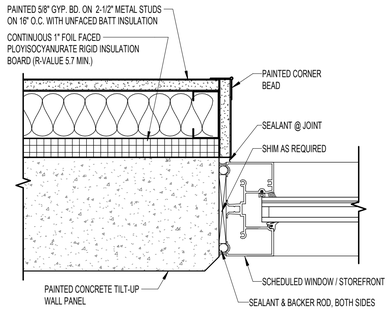
LOUVER SILL 3" = 1'-0" 7



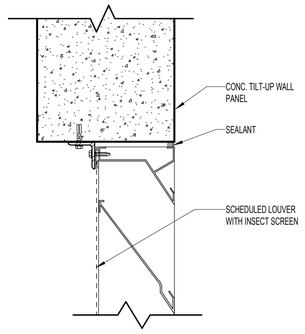
WINDOW HEAD AT TILP-UP WALL 3" = 1'-0" 3



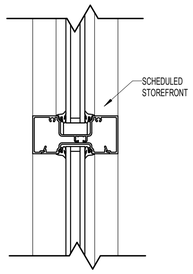
CORNER MULLION 3" = 1'-0" 6



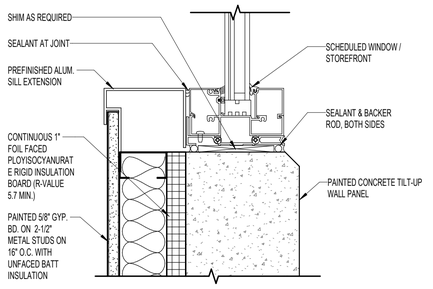
WINDOW JAMB AT TILP-UP WALL 3" = 1'-0" 2



LOUVER HEAD 3" = 1'-0" 9



HORIZ. MULLION 3" = 1'-0" 5



WINDOW SILL AT TILP-UP WALL 3" = 1'-0" 1

FILENAME: R:\1003300-1004999\1003526.00\WA5_ROCKPORT\04_DOCUMENTS\MODELS\Backup Model\3526-TXDOT Rockport_CChau.rvt
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NEW ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

SHEET TITLE

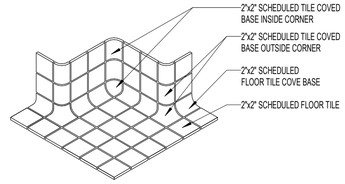
WINDOW DETAILS

SHEET NUMBER

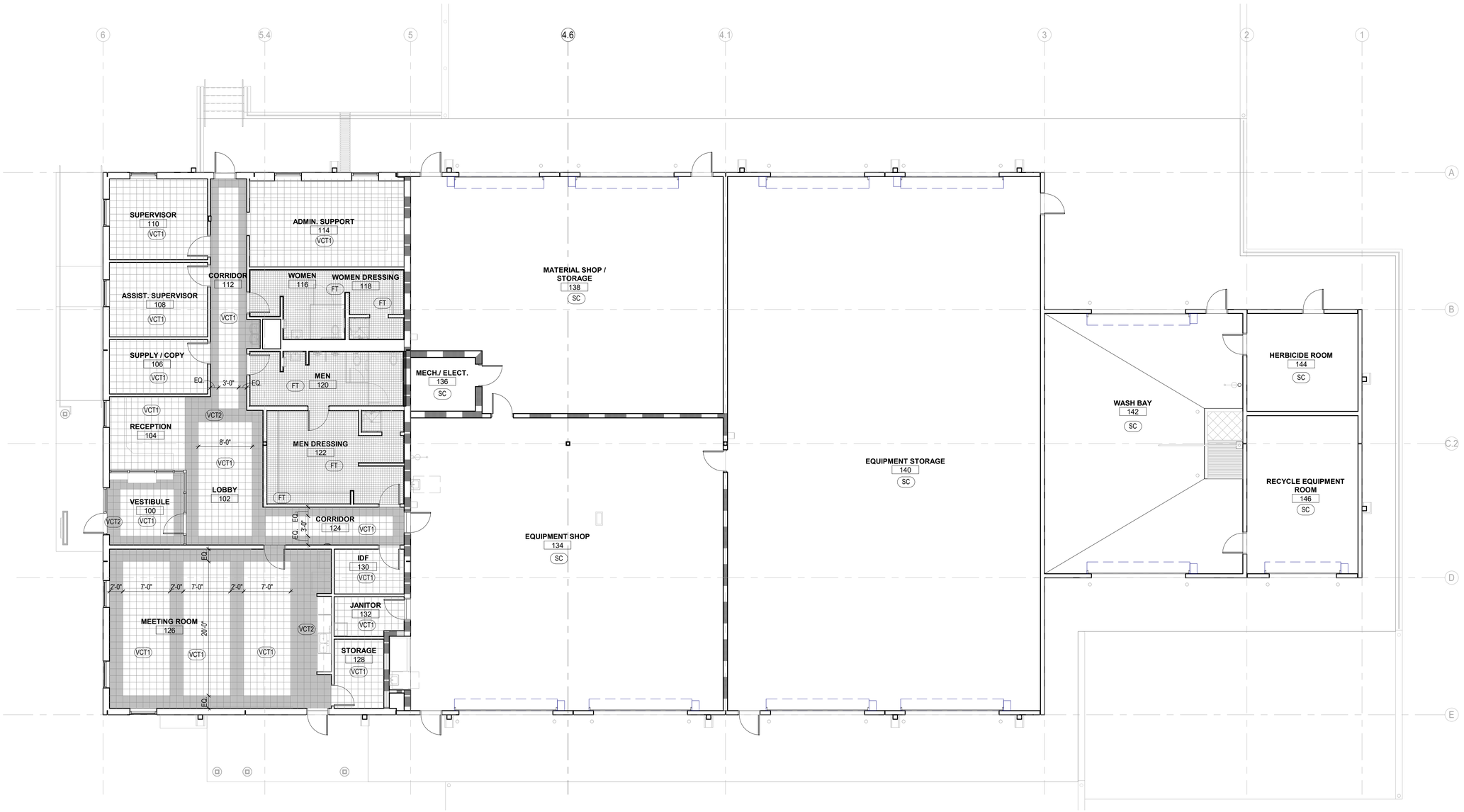
A9.3

GENERAL NOTES

REFER TO SHEET A9.5 FOR ROOM FINISH LEGEND AND SCHEDULES



TILE BASE DETAIL 1 1/2" = 1'-0" (5)



OVERALL FINISH PLAN 1/8" = 1'-0" (1)

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SHEET TITLE

OVERALL FINISH FLOOR PLAN

SHEET NUMBER

A9.4

FILENAME: R:\1003300-1004999\1003526.00\WA5_ROCKPORT\04_DOCUMENTS\MODELS\Backup Model\3526-TXDOT Rockport_CChau.rvt
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FLOOR FINISHES

PORCELAIN TILE

FT

LOCATION:	RESTROOM / SHOWER
MANUFACTURER:	DALTILE
DESCRIPTION:	KEYSTONE
SIZE:	2" x 2"
COLOR:	D202 UPTOWN TAUPE SPECKLE
GROUT:	EPOXY; COLOR TO BE APPROVED BY OWNER
REMARKS:	

VCT

VCT1

LOCATION:	OFFICES, CORRIDOR
SIZE:	12" x 12"
MANUFACTURER:	ARMSTRONG FLOORING
STYLE:	STANDARD EXCELON
COLOR:	51908 PEWTER
REMARKS:	FIELD TILE; REFER TO DRAWINGS FOR PATTERN

VCT2

LOCATION:	OFFICES, CORRIDOR
SIZE:	12" x 12"
MANUFACTURER:	ARMSTRONG FLOORING
STYLE:	STANDARD EXCELON
COLOR:	51903 BLUE GRAY
REMARKS:	FIELD TILE; REFER TO DRAWINGS FOR PATTERN

SEALED CONCRETE

SC1

LOCATION:	MECH, JAN., ELEC., STOR. SHOP, STORAGE
MANUFACTURER:	TBD
FINISH:	SEALED CONCRETE W/ HARDENER
COLOR:	CLEAR
REMARKS:	CONCRETE TO BE CLEARED OF ALL PAINT, DIRT, AND DEBIES BEFORE SEALING

RUBBER BASE

RB

LOCATION:	GENERAL
MANUFACTURER:	ROPPE
HEIGHT:	6"
COLOR:	123 - CHARCOAL
REMARKS:	COVE PROFILE

TILE BASE

TB

LOCATION:	RESTROOM / SHOWER
MANUFACTURER:	DALTILE
DESCRIPTION:	KEYSTONE
SIZE:	2" x 2"
COLOR:	D202 UPTOWN TAUPE SPECKLE
GROUT:	EPOXY; COLOR TO BE APPROVED BY OWNER
REMARKS:	

WALL FINISHES

PORCELAIN TILE

WT1

LOCATION:	RESTROOMS
MANUFACTURER:	DALTILE
STYLE:	MODERN DIMENSIONS
SIZE:	4" x 4"
COLOR:	0135 ALMOND
GROUT:	EPOXY; COLOR TO BE APPROVED BY OWNER
REMARKS:	FIELD WALL TILE

WT2

LOCATION:	RESTROOMS
MANUFACTURER:	DALTILE
STYLE:	MODERN DIMENSIONS
SIZE:	4" x 4"
COLOR:	X114 DESERT GRAY
GROUT:	EPOXY; COLOR TO BE APPROVED BY OWNER
REMARKS:	ACCENT WALL TILE

PAINT

PT1

LOCATION:	GENERAL
MANUFACTURER:	SHERWIN-WILLIAMS
COLOR:	SW 7070 SITE WHITE
FINISH:	EGGSHELL
REMARKS:	

ELASTOMERIC PAINT

EP1

LOCATION:	WAREHOUSE, STORAGE, ALL NON-A/C SPACES
MANUFACTURER:	SHERWIN-WILLIAMS
COLOR:	MATCH EXTERIOR
REMARKS:	RE: SPECIFICATIONS

MILLWORK FINISHES

PLASTIC LAMINATE

PL1

LOCATION:	MEETING ROOM MILLWORK
MANUFACTURER:	WILSONART
COLOR:	4943-38 CLASSIC LINEN
FINISH:	
REMARKS:	

PL2

LOCATION:	MEETING ROOM BACKSPLASH
MANUFACTURER:	WILSONART
COLOR:	#S6501 (414) CRYSTAL STEEL
FINISH:	
REMARKS:	

PL3

LOCATION:	RECEPTION / ADMIN. SUPPORT
MANUFACTURER:	WILSONART
COLOR:	7938-38 NEW AGE OAK
FINISH:	
REMARKS:	

SOLID SURFACE

SS

LOCATION:	MEETING ROOM COUNTERTOP
MANUFACTURER:	WILSONART
COLOR:	Q2001 - LYRA
THICKNESS:	3CM
FINISH:	POLISHED
REMARKS:	EASED EDGE

CEILING FINISHES

ACOUSTICAL CEILING TILE

ACL

MANUFACTURER:	ARMSTRONG
SERIES:	ULTIMA HRC
SIZE:	2' x 2' x 3/4"
EDGE:	BEVELED TEGULAR
COLOR:	WHITE
GRID:	9/16" WHITE GRID
REMARKS:	--

PAINTED GYPSUM BOARD

GYP

MANUFACTURER:	SHERWIN-WILLIAMS
FINISH:	FLAT
COLOR:	SW7006 EXTRA WHITE
REMARKS:	--

MISC.

STOREFRONT FINISHES

LOCATION:	STOREFRONT SYSTEM, ALUM. WINDOW & DOOR
MANUFACTURER:	TBD
COLOR:	CLEAR ANODIZED

MINIBLINDS

LOCATION:	EXTERIOR WINDOWS
MANUFACTURER:	SWF
STYLE:	ALUMINUM
COLOR:	BRUSHED ALUMINUM 121
SIZE:	1"
REMARKS:	RE: SPECIFICATION

TOILET PARTITION (SOLID PHENOLIC)

LOCATION:	RESTROOMS
MANUFACTURER:	SCRANTON PRODUCTS
SERIES:	HINEY HIDERS SOLID COLOR
COLOR:	TO BE SELECTED BY ARCHITECT
TEXTURE:	ORANGE PEEL
SIZE:	1"
REMARKS:	RE: SPECIFICATION

ROOM FINISH SCHEDULE

ROOM DATA		FLOOR	BASE	WALL FINISHES				CEILINGS	
ROOM #	NAME	FINISH	FINISH	NORTH	EAST	SOUTH	WEST	FINISH	COMMENTS
100	VESTIBULE	VCT	RB	--	PT1	PT1	--	GYP	
102	LOBBY	VCT	RB	PT1	PT1	PT1	PT1	ACL	
104	RECEPTION	VCT	RB	PT1	PT1	PT1	PT1	ACL	
106	SUPPLY / COPY	VCT	RB	PT1	PT1	PT1	PT1	ACL	
108	ASSIST. SUPERVISOR	VCT	RB	PT1	PT1	PT1	PT1	ACL	
110	SUPERVISOR	VCT	RB	PT1	PT1	PT1	PT1	ACL	
112	CORRIDOR	VCT	RB	PT1	PT1	PT1	PT1	ACL	
114	ADMIN. SUPPORT	VCT	RB	PT1	PT1	PT1	PT1	ACL	
116	WOMEN	FT	TB	WT	WT	WT	WT	ACL	
118	WOMEN DRESSING	FT	TB	WT	WT	WT	WT	GYP	
120	MEN	FT	TB	WT	WT	WT	WT	ACL	
122	MEN DRESSING	FT	TB	WT	WT	WT	WT	ACL / GYP	
124	CORRIDOR	VCT	RB	PT1	PT1	PT1	PT1	ACL	
126	MEETING ROOM	VCT	RB	PT1	PT1	PT1	PT1	ACL	
128	STORAGE	VCT	RB	PT1	PT1	PT1	PT1	ACL	
130	IDF	VCT	RB	PT1	PT1	PT1	PT1	OPEN	
132	JANITOR	VCT	RB	PT1	PT1	PT1	PT1	OPEN	
134	EQUIPMENT SHOP	SC	--	EP1	EP1	EP1	EP1	OPEN	
136	MECH./ ELECT.	SC	RB	PT1	PT1	PT1	PT1	OPEN	
138	MATERIAL SHOP / STORAGE	SC	--	EP1	EP1	EP1	EP1	OPEN	
140	EQUIPMENT STORAGE	SC	--	EP1	EP1	EP1	EP1	OPEN	
142	WASH BAY	SC	--	EP1	EP1	EP1	EP1	OPEN	
144	HERBICIDE ROOM	SC	--	EP1	EP1	EP1	EP1	OPEN	
146	RECYCLE EQUIPMENT ROOM	SC	--	EP1	EP1	EP1	EP1	OPEN	

ALL PRODUCTS / MANUFACTURERS LISTED TO SERVE AS BASIS OF DESIGN. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE NAMED PRODUCT OR EQUAL.

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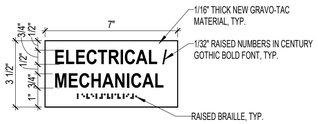
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MATERIALS & FINISH LEGEND, ROOM FINISH SCHEDULE

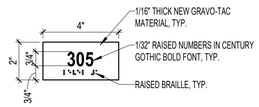
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A9.5

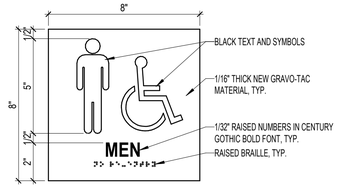
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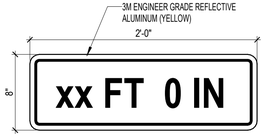
SIGNAGE - TYPE 5



SIGNAGE - TYPE 4

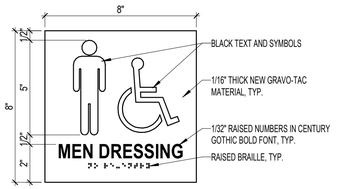


SIGNAGE - TYPE 1

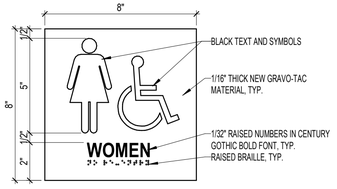


SIGNAGE - TYPE 6

REFER TO DOOR SCHEDULE FOR DOOR HEIGHT, WALL MOUNTED ABOVE OVERHEAD DOOR



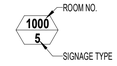
SIGNAGE - TYPE 3

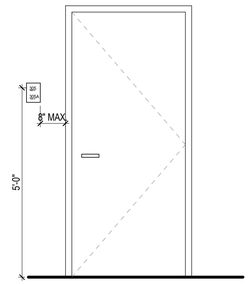


SIGNAGE - TYPE 2

SIGNAGE NOTES

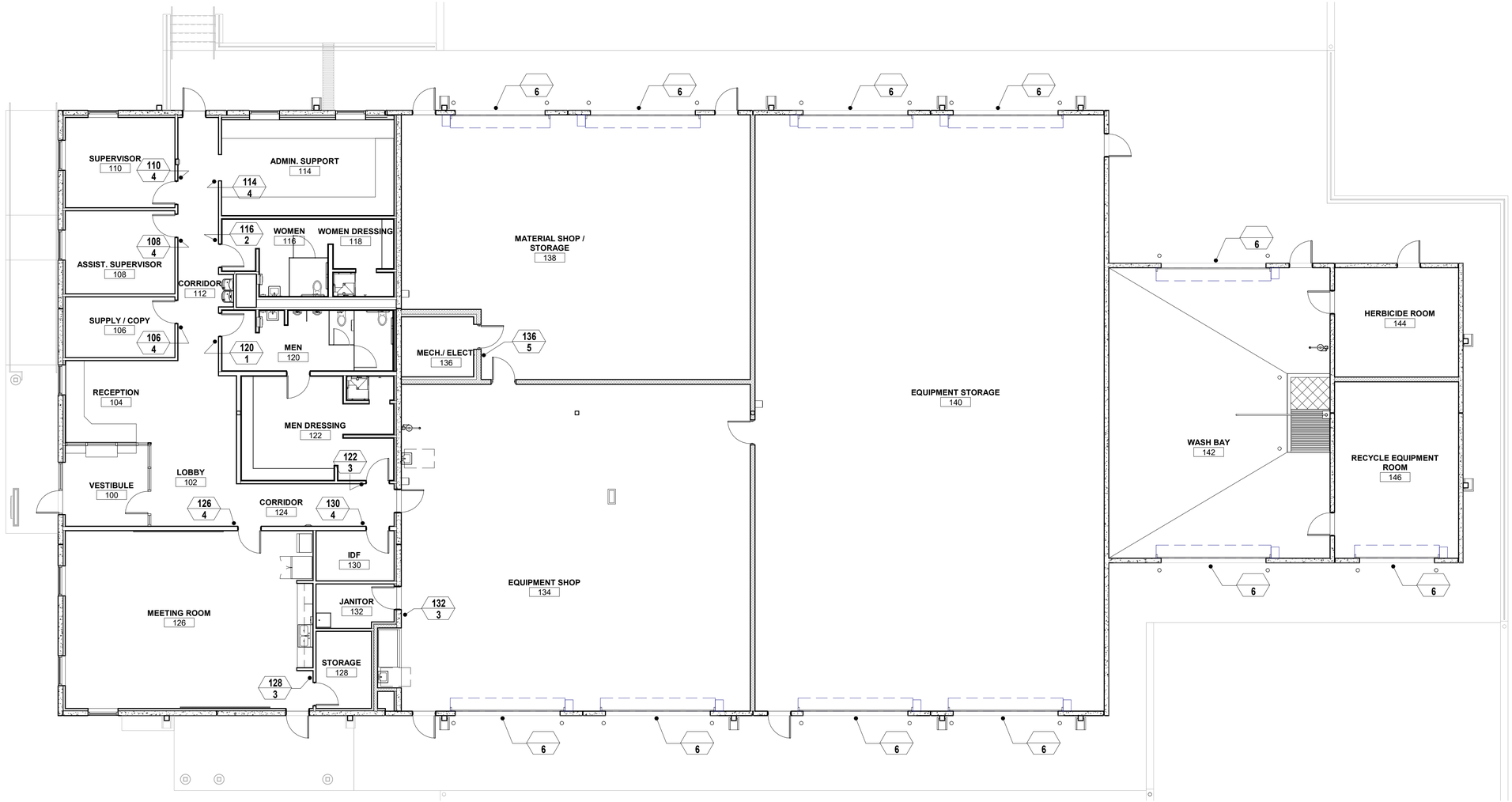
1. ALL SIGNS TO COMPLY WITH THE AMERICAN DISABILITY ACT IN LETTER SIZE, THICKNESS AND FONT REQUIREMENT.





NOTES:
ALL SIGNAGE FOR PERMANENT SPACES SHALL COMPLY WITH TEXAS ACCESSIBILITY STANDARD, SECTION 4.30

TYP. SIGNAGE HEIGHT 1/2" = 1'-0" (2)



SIGNAGE PLAN 1/8" = 1'-0" (1)

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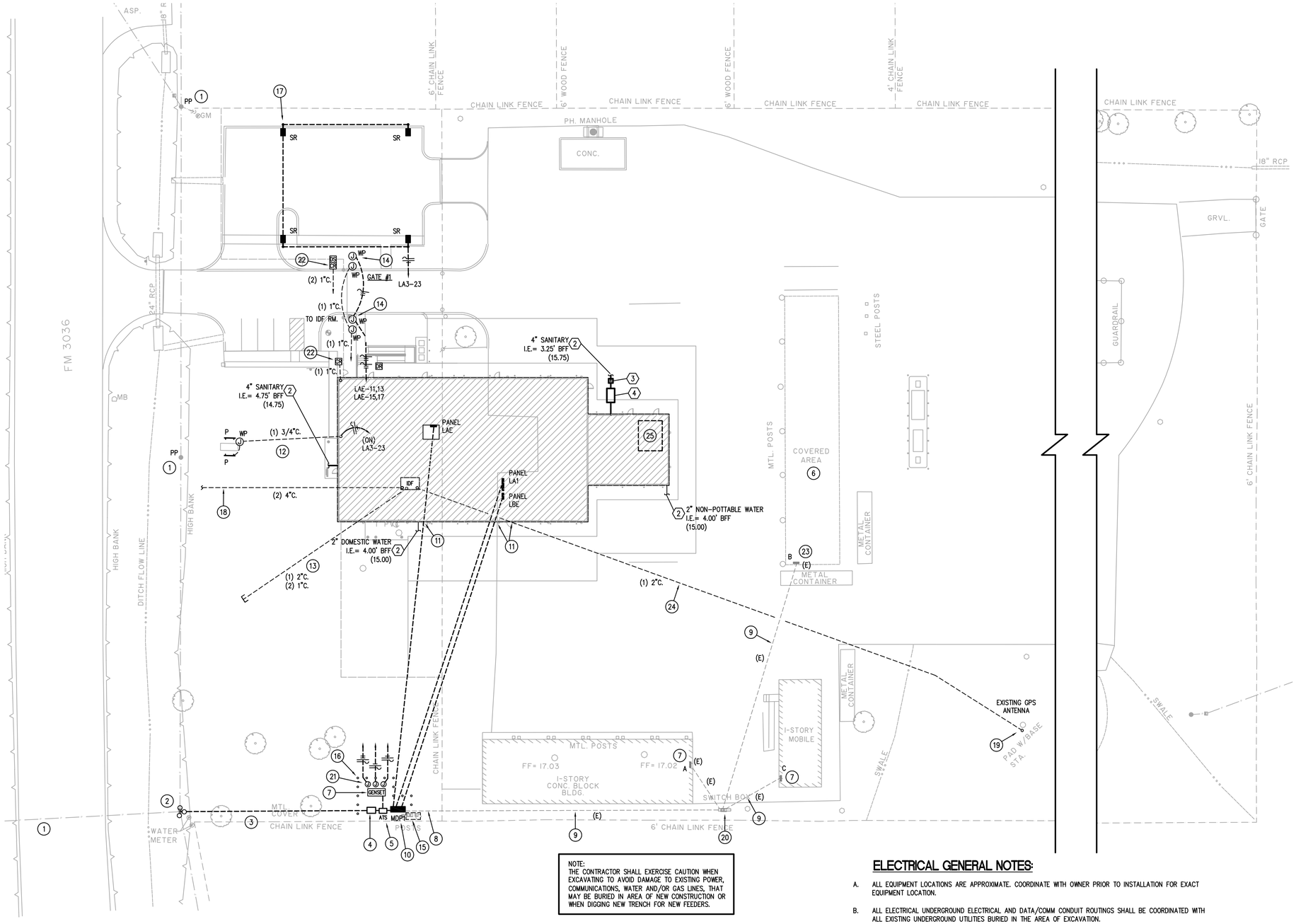
1003526

SHEET TITLE

SIGNAGE DETAILS

SHEET NUMBER

A9.6



NOTE:
THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING TO AVOID DAMAGE TO EXISTING POWER, COMMUNICATIONS, WATER AND/OR GAS LINES, THAT MAY BE BURIED IN AREA OF NEW CONSTRUCTION OR WHEN DIGGING NEW TRENCH FOR NEW FEEDERS.

1 MEP1.01 MEP SITE PLAN

1"=30'-0"

ELECTRICAL KEYED NOTES:

1. EXISTING CENTERPOINT POWER CO. UTILITY POLE AND OVERHEAD ELECTRICAL LINES.
2. NEW CENTERPOINT POWER CO. SERVICE ENTRANCE TRANSFORMER POLE BANK.
3. NEW UNDERGROUND SECONDARY SERVICE ENTRANCE FEEDERS.
4. 1200A/3P/NE3R MAIN SWITCH CIRCUIT BREAKER.
5. NE-4X AUTOMATIC TRANSFER SWITCH.
6. EXISTING METAL BUILDING.
7. PROPOSED LOCATION OF NEW EMERGENCY GENERATOR.
8. CONTRACTOR SHALL RECONNECT EXISTING UNDERGROUND FEEDER SERVING EXISTING BUILDING LOAD CENTERS.
9. EXISTING UNDERGROUND FEEDER TO REMAIN.
10. MAIN DISTRIBUTION PANEL "MDP1" NE3R.
11. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH STRUCTURAL DRAWINGS FOR EXACT FOUNDATION FOOTINGS TO PASS ALL UNDERGROUND ELECTRICAL CONDUITS PRIOR TO ROUGH-IN.
12. (1) 3/4"C. FOR SIGN LIGHTING.
13. (1) 2" PVC UNDERGROUND EMPTY CONDUITS FOR FUTURE RADIO COMMUNICATIONS ANTENNA AND (2) 1" C. FOR POWER. ALL CONDUITS WITH PULL STRING. CAP AND STAKE CONDUIT TERMINATION. CONTRACTOR SHALL VERIFY WITH OWNER FOR EXACT ROUTING AND TERMINATION POINT PRIOR TO ROUGH-IN.
14. (1) 3/4"C. FOR POWER AND (1) 1"C FOR SECURITY ACCESS CONTROLS TO NEW MOTORIZED SECURITY GATE.
15. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH AEP ELECTRICAL POWER CO. TO COORDINATE DISCONNECTION DATE AND TIME OF THE EXISTING ELECTRICAL SERVICE. DISCONNECT AND REMOVE ALL FREESTANDING ELECTRICAL EQUIPMENT GEAR AND REMOVE ALL CONDUIT AND WIRE BACK TO POINT OF SOURCE.
16. PROVIDE CONCRETE FILLED PROTECTIVE BOLLARDS AS REQUIRED.
17. POLE LUMINAIRE WITH SHARP CUT-OFF OPTICS TO MINIMIZE LIGHT TRESPASS GLARE (TYPICAL).
18. (2) 4" PVC UNDERGROUND EMPTY CONDUITS BUILDING IDF ROOM TO THE AT&T PEDESTAL ON SITE. COORDINATE EXACT LOCATION WITH G. OWENS AT 817-338-6822.
19. APPROXIMATE LOCATION OF EXISTING "GPS" ANTENNA. STUB UP NEAR BASE OF ANTENNA. COORDINATE WITH OWNER FOR EXACT STUB UP LOCATION.
20. EXISTING FREESTANDING ELECTRICAL GEAR SERVING CONCRETE BLOCK AND METAL BUILDINGS TO REMAIN.
21. WP, J-BOXES FOR EMERGENCY GENERATOR, JACKET HEATER, BATTERY CHARGER, ANTI-CONDENSATE AND CONTROL CIRCUITS. RUN BRANCH CIRCUIT UNDERGROUND TO PANEL "LA2". REFER TO KEYED NOTE #19 ON SHEET EP2.01 FOR CIRCUIT DESIGNATIONS.
22. CONTRACTOR SHALL PROVIDE WP J-BOX FOR SECURITY CARD READER (TYPICAL).
23. EXISTING 24 POLE 120/240V/1PH LOAD CENTER "B".
24. RUN (1) 2" PVC UNDERGROUND EMPTY CONDUIT WITH PULLSTRING FROM EXISTING "GPS" ANTENNA TO NEW BUILDING IDF ROOM.
25. APPROXIMATE LOCATION OF EXISTING FUEL PUMP STATION. CONTRACTOR SHALL DISCONNECT AND REMOVE ANY ELECTRICAL CONNECTIONS TO PUMPS IF ANY AND REMOVE CONDUIT AND WIRE BACK TO POINT OF SOURCE.

ELECTRICAL GENERAL NOTES:

A. ALL EQUIPMENT LOCATIONS ARE APPROXIMATE. COORDINATE WITH OWNER PRIOR TO INSTALLATION FOR EXACT EQUIPMENT LOCATION.

B. ALL ELECTRICAL UNDERGROUND ELECTRICAL AND DATA/COMM CONDUIT ROUTINGS SHALL BE COORDINATED WITH ALL EXISTING UNDERGROUND UTILITIES BURIED IN THE AREA OF EXCAVATION.

C. ELECTRICAL CONTRACTOR SHALL ARRANGE NEW ELECTRICAL SERVICE ENTRANCE EQUIPMENT GEAR SUCH AS MDP1, EMERGENCY GENERATOR, ATS AND MAIN CIRCUIT BREAKER TO PROVIDE REQUIRED CLEARANCES AS PER THE LATEST EDITION OF THE NEC.

D. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EXTERIOR LIGHTING LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS.

E. COORDINATE ALL WORK WITH ARCHITECTURAL AND CIVIL PLANS BEFORE INSTALLATION OF ALL ELECTRICAL EQUIPMENT GEAR.

F. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL PULLSTRINGS TO ALL UNDERGROUND EMPTY CONDUITS.

G. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DATA/COMM TECHNOLOGY DRAWINGS FOR EXACT NUMBER OF EMPTY CONDUITS AND SIZES OF ALL THE UNDERGROUND DATA/COMM CONDUITS.

H. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

GENERAL PLUMBING NOTES:

1. REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATION BEYOND 5' OF THE BUILDING LINE.

PLUMBING KEYED NOTES:

1. DOMESTIC WATER ENTRY, SIZE AS NOTED.
2. SANITARY SEWER FROM BUILDING, SIZE AS NOTED.
3. SAND OIL SEPARATOR.
4. SAMPLE WELL.

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TBPE Firm Registration No. 2234

DBR Project Number 180375.000

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3/10/19

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PGAL PROJECT NUMBER

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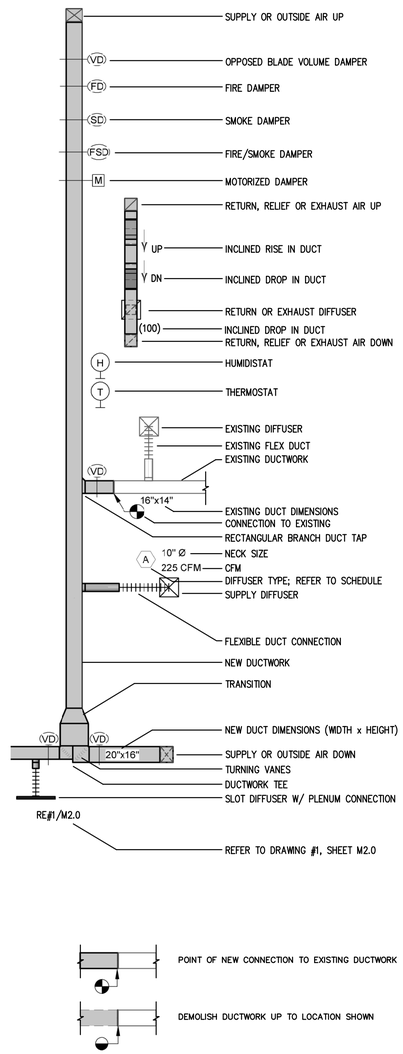
SHEET TITLE

MEP SITE PLAN

SHEET NUMBER

MEP1.01

DUCTWORK



GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND TILT WALL SEAMS TO MAINTAIN THE MINIMUM DISTANCE OF WALL PENETRATIONS. FIELD COORDINATE EXACT DIMENSION.
2. COORDINATE FINAL PLACEMENT OF MECHANICAL EQUIPMENT ON ROOF WITH STRUCTURAL ENGINEER AND ACTUAL STRUCTURAL CONDITIONS.
3. COORDINATE FINAL PLACEMENT OF MECHANICAL EQUIPMENT ON ROOF TO ALIGN WITH THE ARCHITECTURAL SCREENING REQUIREMENTS.
4. PROVIDE INSULATION FOR ALL PIPING AND DUCTWORK THAT MEETS 2015 IECC AS SPECIFIED.
5. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
6. THERMOSTAT OR BUILDING MANAGEMENT SYSTEM SHALL HAVE CAPABILITY TO SET BACK OR SHUT DOWN THE SYSTEM BASED ON DAY OF THE WEEK AND TIME OF THE DAY, AND PROVIDE A READILY ACCESSIBLE MANUAL OVERRIDE THAT WILL RETURN TO THE PRESETBACK OR SHUTDOWN SCHEDULE WITHOUT REPROGRAMMING.
7. ZONE THERMOSTAT CONTROL SHALL PROVIDE A TEMPERATURE RANGE OR DEADBAND OF AT LEAST 5°F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS CAPABLE OF BEING SHUT OFF OR REDUCED TO A MINIMUM.
8. ALL OUTSIDE AIR CALCULATIONS FOR THIS PROJECT ARE BASED ON THE VENTILATION REQUIREMENTS PER LATEST EDITION OF THE 2018 INTERNATIONAL MECHANICAL CODE AND ASHRAE STANDARD 62.
9. CONTRACTOR TO VERIFY THE FIRE RATINGS OF WALLS AND FLOORS AND PROVIDE FIRE DAMPERS ONLY IN WALLS THAT ARE RATED AS REQUIRED.
10. ACCESS SHALL BE PROVIDED FOR ANY DAMPERS, VALVES, AND JUNCTION BOXES.
11. CONTRACTOR SHALL TIE HVAC DUCTWORK, PIPES, AND EQUIPMENT TIGHT TO STRUCTURE.
12. PIPING AND DUCTWORK ON DRAWINGS ARE SCHEMATIC ONLY. COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING. OFFSET AND RUN PIPING/DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ALL NECESSARY PIPING, DUCTWORK, FITTINGS, INSULATION, AND OTHER ACCESSORIES.
13. COORDINATE LOCATIONS OF FLOOR AND WALL OPENINGS WITH ARCHITECT AND STRUCTURAL ENGINEER.
14. CONTRACTOR SHALL COMPLY WITH ALL STATE, AND FEDERAL CODES AND AUTHORITIES HAVING JURISDICTION.
15. COORDINATE EXACT LOCATION OF ALL AIR DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
16. PROVIDE A CONICAL BELLMOUTH WITH A VOLUME DAMPER AND 2" ELEVATED OPERATOR SPIN-IN CONNECTION FOR ALL ROUND DUCTWORK CONNECTED TO RECTANGULAR DUCT.
17. PROVIDE REMOTE SPIN-IN CONNECTION FOR ALL ROUND DUCTWORK CONNECTED TO RECTANGULAR DUCT ABOVE HARD CEILING.
18. ALL EQUIPMENT LOCATED OUTDOORS SHALL BE SELECTED TO WITHSTAND 150 MPH WINDS AND SHALL BE SECURED DIRECTLY TO STRUCTURE/GRADE. ALL FANS, RELIEF HOODS, AND INTAKE HOODS SHALL BE SECURED TO CURB USING STEEL CABLES. ALL PIPE SUPPORTS AND CONDUIT SUPPORTS SHALL BE ANCHORED TO ROOF DECK. ALL AIR COOLED CONDENSING UNITS SHALL BE ANCHORED TO ROOF DECK. VIBRATION ISOLATORS SHALL INCLUDE UPLIFT SECUREMENT.
19. INSTALL TEMPERATURE SENSORS AND CO2 SENSORS AT LOCATIONS INDICATED ON PLANS. MOUNT AT SAME HEIGHT AS LIGHT SWITCHES. COORDINATE WITH ARCHITECT FOR EXACT LOCATIONS.
20. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL DISCREPANCIES BETWEEN EXISTING DUCTWORK AND DUCTWORK SHOWN ON DRAWINGS, WHICH MAY REQUIRE MODIFICATIONS (PRIOR TO FABRICATION OF ANY DUCTWORK).
21. CONTRACTOR SHALL BALANCE ALL DIFFUSERS TO CFM INDICATED.
22. PROVIDE INSULATION FOR ALL PIPING AND DUCTWORK THAT MEETS 2015 IECC AS SPECIFIED.
23. ACCESS SHALL BE PROVIDED FOR ANY DAMPERS, VALVES, AND JUNCTION BOXES.
24. CONTRACTOR SHALL TIE HVAC DUCTWORK, PIPES, AND EQUIPMENT TIGHT TO STRUCTURE.
25. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY WILL HAVE OBTAINED THE SCOPE OF MECHANICAL WORK INVOLVED AS A RESULT OF ARCHITECTURAL MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MUST BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED SO THAT THE INDICATED REMODELING MAY BE ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS, CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
26. ALL AIR SIDE EQUIPMENT, MANUAL VOLUME DAMPERS AND OTHER ASSOCIATED MECHANICAL EQUIPMENT REQUIRING ACCESSIBILITY FOR MAINTENANCE AND UPKEEP SHALL BE MOUNTED AT A LEVEL TO MAINTAIN EASY ACCESS FROM THE CEILING.
27. ALL PROVIDED FILTERS ARE BE PLEATED AND TO HAVE A RATING OF MERV 11 OR BETTER.

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TBPE Firm Registration No. 2234

DBR Project Number 180375.000

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ROCKPORT, TX
78382

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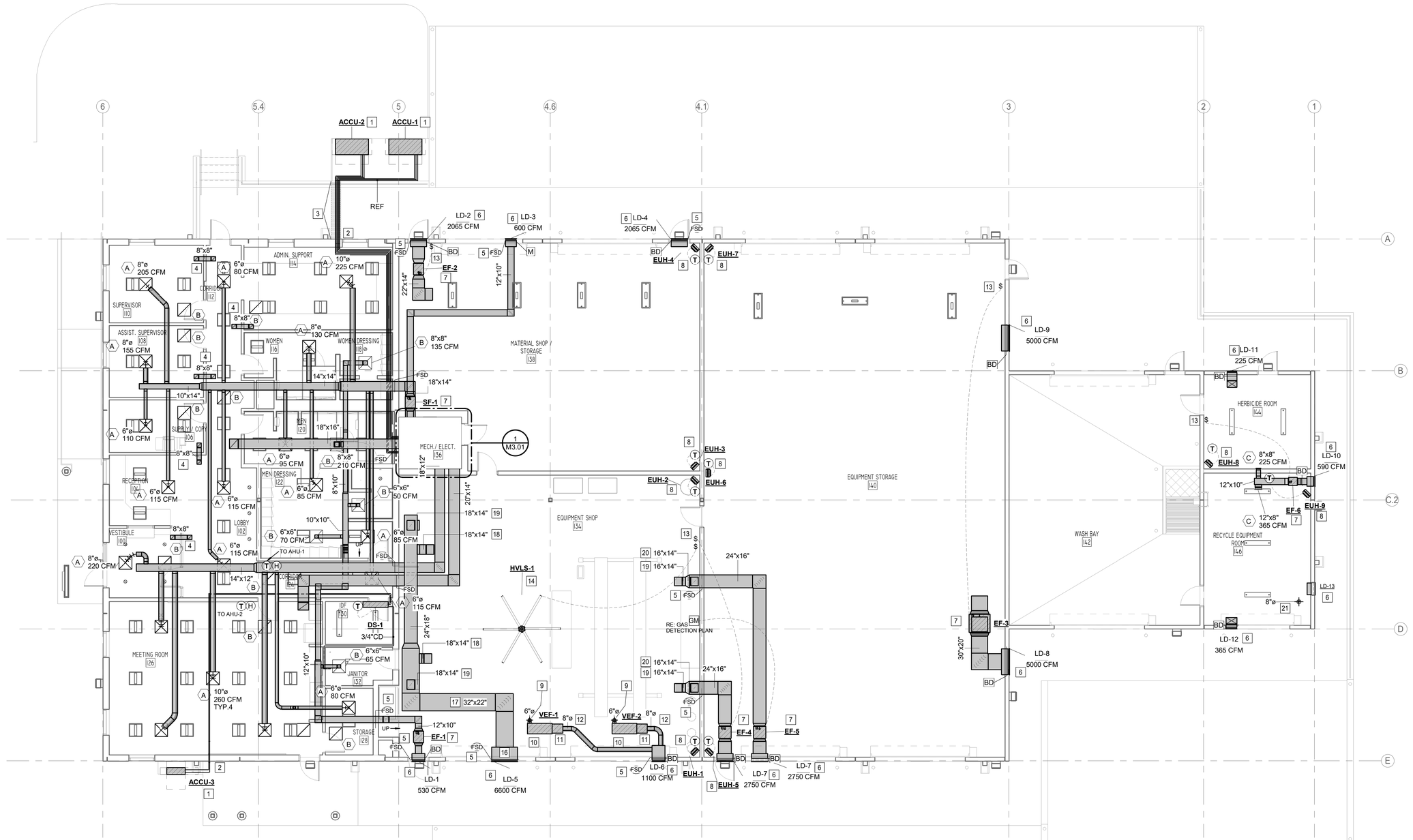
1003526

SHEET TITLE

MECHANICAL GENERAL NOTES

SHEET NUMBER

M0.01



MECHANICAL GENERAL NOTES

REFER TO M0.01 FOR MECHANICAL GENERAL NOTES.

MECHANICAL KEYED NOTES

1 PROVIDE GRADE MOUNTED AIR COOLED CONDENSING UNIT AT THE APPROXIMATE LOCATION INDICATED. FIELD COORDINATE EXACT MOUNTING LOCATION AND FINAL DIMENSION OF THE SIX INCH TALL CONCRETE PAD. THE CONCRETE PAD SHALL BE SIZED LARGER THAN THE CONDENSING UNIT BY AT LEAST FOUR INCHES ON EACH SIDE. RE: 12/M5.01

2 ROUTE REFRIGERANT LINES FROM THE ASSOCIATED AIR COOLED CONDENSING UNIT ALONG THE GROUND AND PENETRATE THE EXTERIOR WALL AT THE APPROXIMATE LOCATION INDICATED. FIELD COORDINATE EXACT PIPE ROUTING WITH THE TILT WALL SEAMS AND MAINTAIN A MINIMUM DISTANCE OF 3'-0" FROM ANY SEAM. SIZE PER MANUFACTURER'S RECOMMENDATIONS. RE: 1, 3/M5.02

3 ROUTE REFRIGERANT PIPING THROUGH THE PROVIDED GRATE COVERED PATHWAY. THE REFRIGERANT PIPING IS NOT TO BE BURIED.

4 PROVIDE A RETURN AIR BOOT AT THE APPROXIMATE LOCATION INDICATED. FIELD COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ALL OTHER TRADES. RE: 2/M5.01

5 PROVIDE COMBINATION FIRE/SMOKE DAMPER AT THE APPROXIMATE LOCATION INDICATED. COORDINATE THE EXACT DIMENSION OF THE DAMPER WITH THE ACTUAL INSTALLED DUCTWORK/LOUVER/EQUIPMENT. RE: 10/M5.01

6 PROVIDE LOUVER AS SCHEDULED AT THE APPROXIMATE LOCATION INDICATED. REFER TO ARCHITECTURAL PLANS FOR THE EXACT MOUNTING HEIGHT/LOCATION. ENSURE NO INTAKE LOUVERS ARE LOCATED WITHIN TEN FEET OF ANY EXHAUST OPENING OUT OF THE BUILDING. RE: 9/M5.01

7 PROVIDE INLINE FAN AT THE APPROXIMAT LOCATION INDICATED. COORDINATE EXACT MOUNTING HEIGHT WITH INSTALLED LOUVER HEIGHT. FIELD COORDINATE EXACT MOUNTING LOCATION WITH ALL OTHER TRADES. RE: 13/M5.01

MECHANICAL KEYED NOTES CONTINUED

8 PROVIDE A WALL MOUNTED ELECTRIC UNIT HEATER AT THE APPROXIMATE LOCATION INDICATED. RE: 14/M5.01

9 PROVIDE A SIX INCH DIAMETER, TWENTY-FIVE FEET LONG CAR-MON HTC HOSE WITH AN RCT TAILPIPE ADAPTER. PROVIDE TUBING WITH A PULL DOWN CABLE AND RING TO BE ACCESSIBLE FROM THE GROUND. MONOXIVENT AND PLYMOVENT ARE CONSIDERED AS EQUALS.

10 PROVIDE A CAR-MON SPRING OPERATED TUBING STORAGE REEL, TSR-S32, AT THE APPROXIMATE LOCATION INDICATED. MOUNT STORAGE REEL TIGHT TO STRUCTURE. MONOXIVENT AND PLYMOVENT ARE CONSIDERED AS EQUALS.

11 PROVIDE A CAR-MON FLANGE MOUNTED, DIRECT DRIVE EXHAUST FAN, ONE HORSEPOWER MOTOR, 208V/1PH/60 HZ, THAT IS TO ATTACH TO THE STORAGE REEL. ENSURE ALL NECESSARY CLEARANCES ARE PROVIDED AND OBSERVED. MONOXIVENT AND PLYMOVENT ARE CONSIDERED AS EQUALS.

12 PROVIDE 316 STAINLESS STEEL EXHAUST DUCTWORK FROM THE DISCHARGE OF THE VEHICLE EXHAUST FAN AND ROUTE TO THE PLENUM OF THE ASSOCIATED EXHAUST LOUVER. FIELD COORDINATE EXACT ROUTING.

13 PROVIDE A WALL MOUNTED SWITCH TO CONTROL THE ASSOCIATED FAN. FAN IS INTENDED TO OPERATE DURING NORMAL BUSINESS HOURS.

MECHANICAL KEYED NOTES CONTINUED

14 PROVIDE A HIGH VOLUME-LOW SPEED FAN AT THE APPROXIMATE LOCATION INDICATED. PRIOR TO FINAL INSTALLATION ENSURE ALL NECESSARY CLEARANCES ARE PROVIDED AND OBSERVED AS WELL AS NO STROBING EFFECT WITH THE SURROUNDING LIGHTS OCCURS. FIELD COORDINATE EXACT MOUNTING LOCATION OF THE FAN CONTROLLER.

15 PROVIDE WALL MOUNTED EVAPORATOR COIL AT THE APPROXIMATE LOCATION INDICATED. ROUTE FULL SIZE CONDENSATE DRAIN LINE TO THE PROVIDED FLOOR DRAIN AS SHOWN.

16 MOUNT ASSOCIATED LOUVER AT THE APPROXIMATE LOCATION INDICATED TO ALLOW THE MIXING PLENUM TO BE ROUTED BETWEEN THE STRUCTURAL SPAN. FIELD COORDINATE EXACT MOUNTING LOCATION.

17 ROUTE MAKE-UP AIR DUCTWORK TIGHT TO STRUCTURE FROM THE MIXING PLENUM OF THE ASSOCIATED LOUVER AS SHOWN. SIZE AS INDICATED.

18 DUCTWORK TURNED UP. TURN DUCTWORK UPWARDS AND TERMINATE THE OPENING A MINIMUM OF 0'-6" BELOW THE BOTTOM OF STRUCTURAL STEEL. COVER DUCTWORK OPENING WITH BIRD SCREEN. FIELD COORDINATE EXACT LOCATION OF DUCTWORK TAP. RE: 5/M5.02

19 DUCTWORK TAPPED OFF THE BOTTOM OF THE MAKE-UP AIR DUCTWORK. ROUTE DUCTWORK DOWN AND TERMINATE WITH A HORIZONTAL 90° ELBOW THAT HAS THE BOTTOM OF THE DUCTWORK WITHIN 0'-8" AFF. COVER DUCTWORK OPENING WITH BIRD SCREEN. FIELD COORDINATE EXACT LOCATION OF DUCTWORK TAP AND VERTICAL ROUTING. RE: 6/M5.02

MECHANICAL KEYED NOTES CONTINUED

20 DUCTWORK TAPPED OFF THE BOTTOM OF THE EXHAUST AIR DUCTWORK. ROUTE DUCTWORK DOWN AND TERMINATE WITH A HORIZONTAL 90° ELBOW THAT HAS THE BOTTOM OF THE DUCTWORK WITHIN 0'-8" AFF. COVER DUCTWORK OPENING WITH BIRD SCREEN. FIELD COORDINATE EXACT LOCATION OF DUCTWORK TAP AND VERTICAL ROUTING. RE: 6/M5.02

21 ROUTE FLUE FROM DIESEL POWERED PRESSURE WASHER UP THROUGH ROOF. SIZE PER MANUFACTURER'S INSTALLTION INSTRUCTIONS. FIELD COORDINATE EXACT ROUTING UP THROUGH ROOF. RE: 7/M5.02

1 LEVEL 1 MECHANICAL PLAN

1 / M2.01 — 1/8" = 1'-0"

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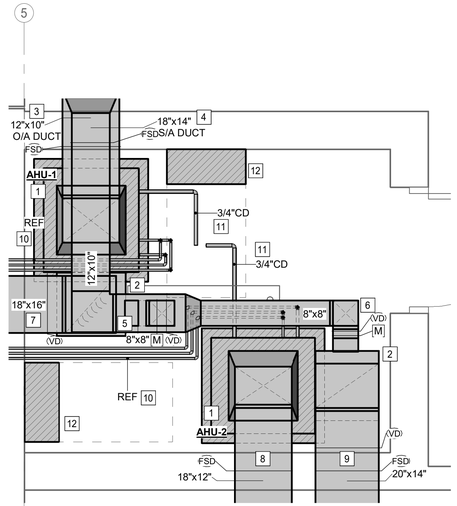
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LEVEL 1
MECHANICAL PLAN

SHEET NUMBER

M2.01

FILENAME: C:\Users\rmiller\Documents\180375_TXDOT Rockport-MEPT19_RMILLER@DBRINC.COM.rvt
PLOTSTAMP: 5/10/2019 7:16:22 AM



1 ENLARGED MECH./ELECT. 136

M3.01 1/2" = 1'-0"

MECHANICAL GENERAL NOTES

REFER TO M0.01 FOR MECHANICAL GENERAL NOTES.

MECHANICAL KEYED NOTES

1. PROVIDE VERTICAL DX FAN COIL UNIT AT THE APPROXIMATE LOCATION INDICATED. MOUNT ON A FOUR INCH HIGH HOUSEKEEPING PAD THAT OVERLAPS THE EQUIPMENT BU A MINIMUM OF FOUR INCHES ON EACH SIDE OF THE FAN COIL UNIT. RE: 11/M5.01
2. EXTEND A FULL SIZE MIXING PLENUM AS REQUIRED TO CONNECT BOTH THE OUTSIDE AND RETURN AIR DUCTWORK AS SHOWN.
3. OUTSIDE AIR FROM SF-1. PROVIDE A COMBINATION FIRE/SMOKE DAMPER AT THE FIRE RATED WALL AS SHOWN. SIZE DUCTWORK AS INDICATED. RE: M2.01 FOR CONTINUATION.
4. SUPPLY AIR FROM AHU-1. PROVIDE A COMBINATION FIRE/SMOKE DAMPER AT THE FIRE RATED WALL AS SHOWN. SIZE DUCTWORK AS INDICATED. RE: M2.01 FOR CONTINUATION.
5. TAP THE OUTSIDE AIR DUCTWORK DOWN IN THE VERTICAL DIRECTION FOR AHU-1 AS SHOWN AND CONNECT TO THE MIXING PLENUM. PROVIDE A VOLUME DAMPER AND A TWO POSITION DAMPER IN THE OUTSIDE AIR DUCTWORK AS SHOWN. SIZE DUCTWORK AS INDICATED.
6. OUTSIDE AIR DOWN TO THE MIXING PLENUM OF AHU-2. PROVIDE A VOLUME DAMPER AND A TWO POSITION DAMPER IN THE OUTSIDE AIR DUCTWORK AS SHOWN. SIZE DUCTOWRK AS INDICATED.
7. RETURN AIR DUCTWORK TO THE MIXING PLENUM OF AHU-1. THE COMBINATION FIRE/SMOKE DAMPER IS SHOWN ON M2.01. PROVIDE A VOLUME DAMPER AS SHOWN. SIZE DUCTWORK AS INDICATED. RE: M2.01 FOR CONTINUATION.
8. SUPPLY AIR DUCTWORK FROM AHU-2. PROVIDE A COMBINATION FIRE /SMOKE DAMPER AT THE FIRE RATED WALL AS SHOWN. RE: M2.01 FOR CONTINUATION. SIZE DUCTWORK AS INDICATED. RE: M2.01 FOR CONTINUATION.
9. RETURN AIR DUCTWORK TO THE MIXING PLENUM OF AHU-2. PROVIDE A COMBINATION FIRE /SMOKEDAMPER AT THE FIRE RATED WALL AS SHOWN. PROVIDE A VOLUME DAMPER AS SHOWN. SIZE DUCTWORK AS INDICATED. RE: M2.01 FOR CONTINUATION.
10. REFRIGERANT PIPING FROM THE ASSOCIATED AIR COOLED CONDENSING UNIT. FIELD COORDINATE EXACT ROUTING FROM CONDENSING UNIT TO THE FAN COIL UNIT. RE: 4/M5.02
11. ROUTE CONDENSATE DRAIN LINE TO THE PROVIDE FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR THE EXACT TERMINATION POINT OF THE CONDENSATE LINE. SIZE CONDENSATE DRAIN AS INDICATED. RE: 7/M5.01
12. AAON SPLIT DX FAN COIL UNIT WALL MOUNTED CONTROLLER. ENSURE THE NECESSARY CLEARANCES INDICATED ARE PROVIDED AND OBSSERVED.

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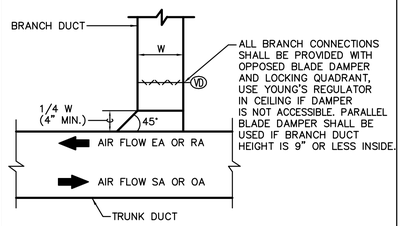
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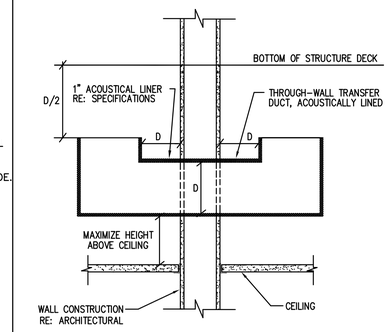
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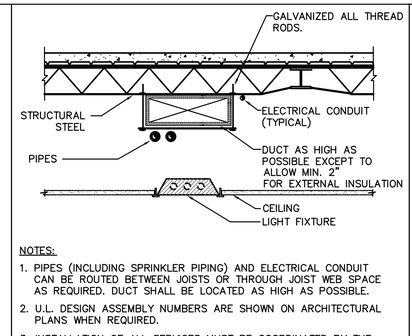


NOTE: THIS CONNECTION SHALL BE TYPICAL FOR ALL RECTANGULAR BRANCH DUCT CONNECTIONS TO RECTANGULAR TRUNK DUCTS, INCLUDING SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST DUCTS.

1 RECTANGULAR BRANCH DUCT TAP
NOT TO SCALE

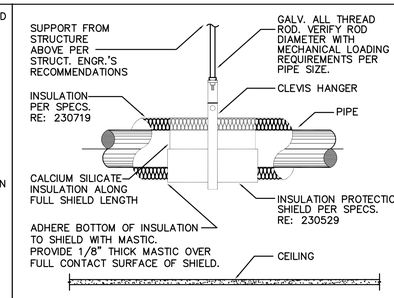


2 RETURN AIR BOOT THRU WALL
NOT TO SCALE MARA.DWG



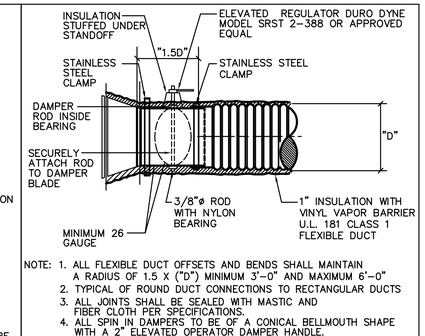
NOTES:
1. PIPES (INCLUDING SPRINKLER PIPING) AND ELECTRICAL CONDUIT CAN BE ROUTED BETWEEN JOISTS OR THROUGH JOIST WEB SPACE AS REQUIRED. DUCT SHALL BE LOCATED AS HIGH AS POSSIBLE.
2. U.L. DESIGN ASSEMBLY NUMBERS ARE SHOWN ON ARCHITECTURAL PLANS WHEN REQUIRED.
3. INSTALLATION OF ALL SERVICES MUST BE COORDINATED BY THE CONTRACTOR.

3 TYP. MEP INSTALLATION DETAIL
NOT TO SCALE



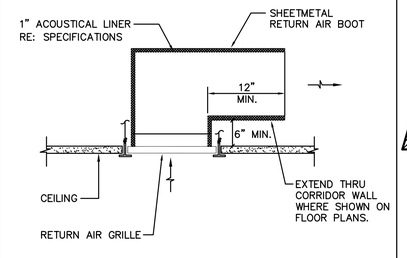
NOTE:
CONTRACTOR SHALL SECURE STRUCT. ENGR. APPROVAL FOR ANY AND ALL PIPE MOUNTING DETAILS TO CONCRETE OR STEEL STRUCTURE. CONTRACTOR SHALL CONFORM TO ALL MAXIMUM SPAN DISTANCES PER SPECIFICATIONS FOR HANGER SPACING. RE: 230529

4 PIPE HANGER DETAIL (1-PIPE)
NOT TO SCALE MPHS102.DWG



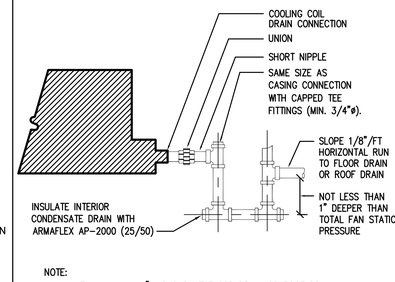
NOTE:
1. ALL FLEXIBLE DUCT OFFSETS AND BENDS SHALL MAINTAIN A RADIUS OF 1.5 X ("D") MINIMUM 3'-0" AND MAXIMUM 6'-0"
2. TYPICAL OF ROUND DUCT CONNECTIONS TO RECTANGULAR DUCTS
3. ALL JOINTS SHALL BE SEALED WITH MASTIC AND FIBER CLOTH PER SPECIFICATIONS.
4. ALL SPIN IN DAMPERS TO BE OF A CONICAL BELLMOUTH SHAPE WITH A 2" ELEVATED OPERATOR DAMPER HANDLE.

5 SPIN-IN DETAIL
NOT TO SCALE



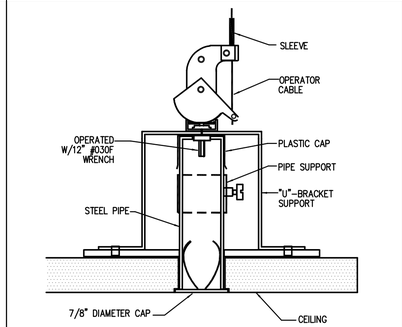
NOTE: TYPICAL FOR ALL RETURN AIR GRILLES

6 RETURN AIR BOOT AT GRILLE
NOT TO SCALE MARA200.DWG



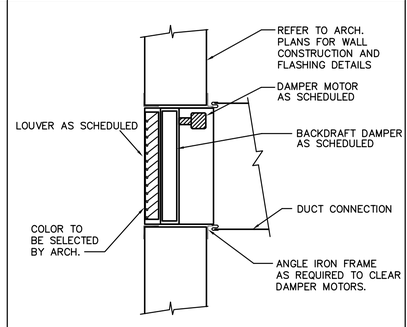
NOTE:
1. MAINTAIN MINIMUM 1" AIR GAP AT FLOOR DRAIN OR ROOF DRAIN.
2. ALL CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 GALVANIZED STEEL WITH MALLEABLE IRON SCREWED FITTINGS.

7 COOLING COIL CONDENSATE DRAIN
NOT TO SCALE MPCE300.DWG

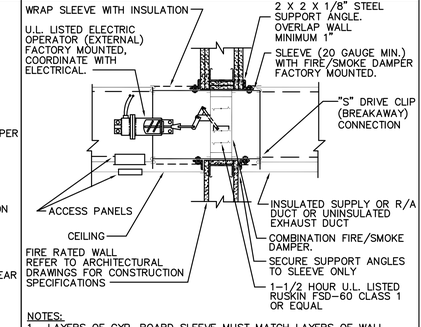


YOUNG'S #270-896C BOWDEN CABLE CONTROL KIT ILLUSTRATED

8 REMOTE DAMPER OPERATOR
NOT TO SCALE

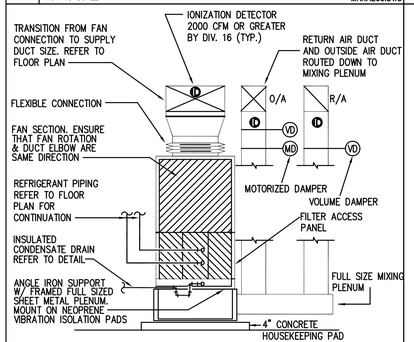


9 LOUVER MOUNTING
NOT TO SCALE



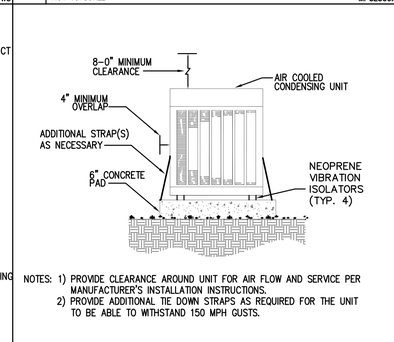
NOTES:
1. LAYERS OF GYP. BOARD SLEEVE MUST MATCH LAYERS OF WALL GYP. BOARD.
2. PROVIDE CLEARANCE AT OPERATOR FOR REPAIR.

10 FIRE/SMOKE DAMPER DETAIL
NOT TO SCALE



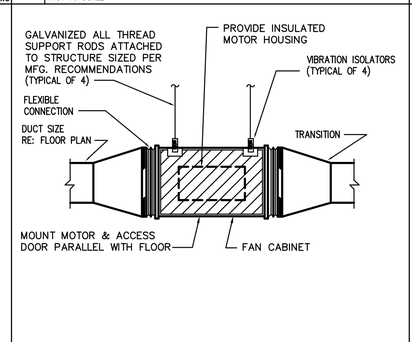
NOTE: ALL CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 GALVANIZED STEEL WITH MALLEABLE IRON SCREWED FITTINGS.

11 VERTICAL DX FAN COIL UNIT
NOT TO SCALE MEFC201.DWG

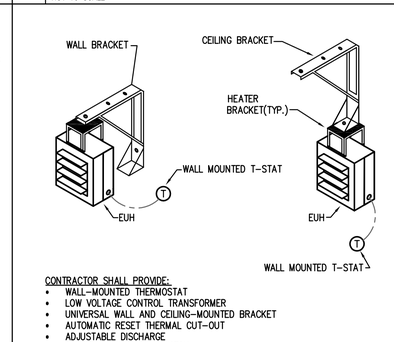


NOTES: 1) PROVIDE CLEARANCE AROUND UNIT FOR AIR FLOW AND SERVICE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2) PROVIDE ADDITIONAL TIE DOWN STRAPS AS REQUIRED FOR THE UNIT TO BE ABLE TO WITHSTAND 150 MPH GUSTS.

12 CONDENSING UNIT MOUNTING ON GRADE
NOT TO SCALE MECU100.DWG

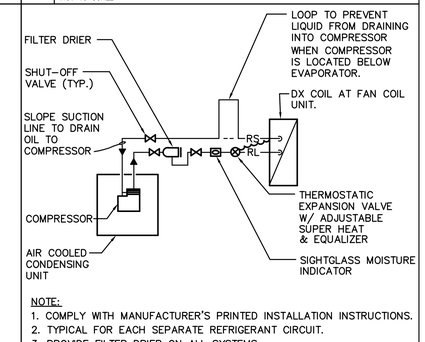


13 IN-LINE FAN DETAIL
NOT TO SCALE



CONTRACTOR SHALL PROVIDE:
- WALL-MOUNTED THERMOSTAT
- LOW VOLTAGE CONTROL TRANSFORMER
- UNIVERSAL WALL AND CEILING-MOUNTED BRACKET
- AUTOMATIC RESET THERMAL CUT-OUT
- ADJUSTABLE DISCHARGE
- REMOTE SUMMER FAN SWITCH

14 ELECTRIC UNIT HEATER DETAIL
NOT TO SCALE



NOTE:
1. COMPLY WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
2. TYPICAL FOR EACH SEPARATE REFRIGERANT CIRCUIT.
3. PROVIDE FILTER DRIER ON ALL SYSTEMS.
4. USE "ACR" HARD DRAWN COPPER REFRIGERANT PIPE.

15 REFRIGERANT PIPING SCHEMATIC
NOT TO SCALE MPRE100.DWG

1 / M5.01 MECHANICAL DETAILS
NOT TO SCALE

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DBR Project Number 180375.000

WM	RM	JG	RS	WW

REGISTRATION

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WILLIAM MEISTER 101184 LICENSED PROFESSIONAL ENGINEER 3/01/19

DRAWING HISTORY

No.	DATE	DESCRIPTION
	12-6-2018	ISSUE FOR DESIGN DEVELOPMENT
	03-12-2019	ISSUE FOR 95% CD REVIEW
	04-12-2019	95% CONSTRUCTION DOCUMENTS
	05-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

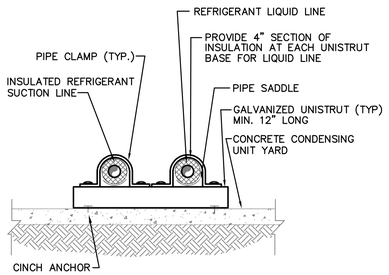
1003526

SHEET TITLE

MECHANICAL DETAILS

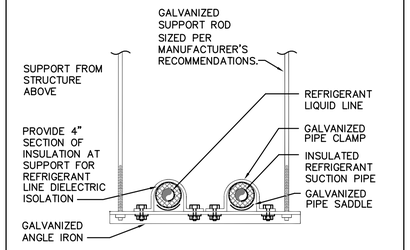
SHEET NUMBER

M5.01



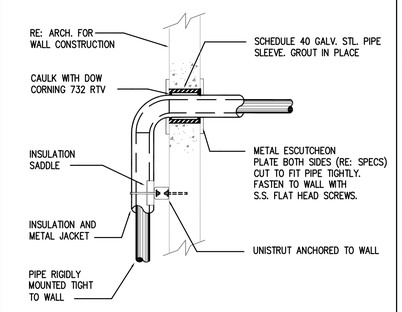
NOTE: PROVIDE SUPPORTS AT 3'-0" ON CENTER AND WITHIN 1'-0" OF ALL CHANGES IN PIPE DIRECTION.

1 FLOOR MOUNTED REFR. PIPE
NOT TO SCALE MPRE200.DWG



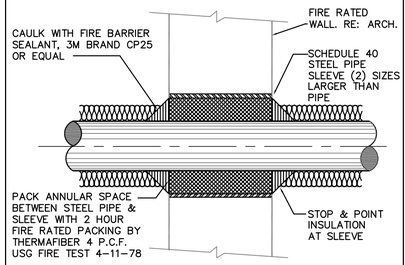
NOTE: PROVIDE SUPPORTS AT 3'-0" ON CENTER MAX. AND WITHIN 1'-0" OF ALL CHANGES IN PIPE DIRECTION.

2 REFRIGERANT PIPE HANGER
NOT TO SCALE MPRE201.DWG

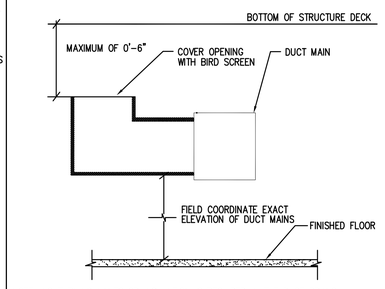


NOTE: COORDINATE EXACT LOCATION/ELEVATION OF THE PIPE PENETRATION WITH THE THE ARCHITECT AND THE STRUCTURAL ENGINEER.

3 PIPE ENTRY THRU EXTERIOR WALL
NOT TO SCALE MPPE302.DWG

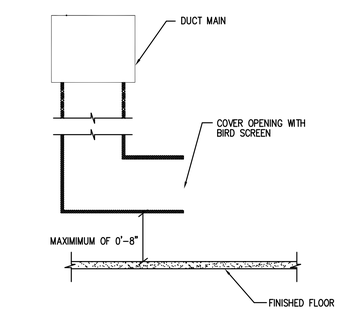


4 FIRE WALL INSULATED PIPE PENETRATION
NOT TO SCALE MPPE102.DWG



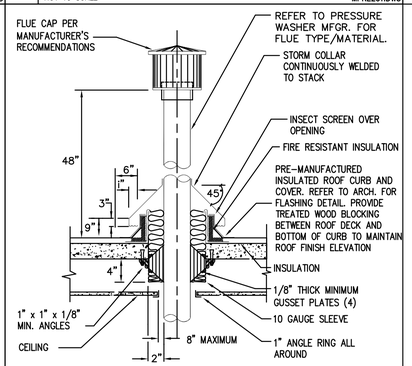
NOTE: NO TURNING VANES OR INSULATION IS REQUIRED IN THE DUCT BRANCH.

5 DUCTWORK UP IN EQPT. SHOP
NOT TO SCALE MARA.DWG



NOTE: NO TURNING VANES OR INSULATION IS REQUIRED IN THE DUCT BRANCH.

6 DUCTWORK DOWN IN EQPT. SHOP
NOT TO SCALE MARA.DWG



7 STEEL FLUE THRU ROOF DETAIL
NOT TO SCALE

1 M5.02 **MECHANICAL DETAILS**
NOT TO SCALE

CLIENT

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PGAL PROJECT NUMBER

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SHEET TITLE

MECHANICAL DETAILS

SHEET NUMBER

M5.02

DX FAN COIL UNIT SCHEDULE

MARK		AHU-1	AHU-2
DISCHARGE		TOP	TOP
SUPPLY AIR (CFM)		1,630	1,340
OUTSIDE AIR (CFM)		300	300
EXT. S.P. (IN. W.G.)		0.8	0.8
FAN MOTOR HORSEPOWER		2.1	1.1
FAN MOTOR CONTROL		ECM	ECM
COOLING EAT DB/WB (°F)		81.7 / 65.3	81.7 / 66.0
COOLING LAT DB/WB (°F)		54.6 / 53.3	53.9 / 52.6
TOTAL COOLING CAPACITY (MBH)		52.7	51.8
SENSIBLE COOLING CAPACITY (MBH)		47.7	40.23
VOLTS/PHASE/HERTZ		208 / 3 / 60	208 / 3 / 60
FLA (AMPS)		32.1	31.9
MCA / MOCP (AMPS)		40 / 40	40 / 40
ELECTRIC HEAT	ACTUAL HEATING CAPACITY (KW)	10.5	10.5
	ENTERING AIR TEMPERATURE (°F)	60.5	58.8
	LEAVING AIR TEMPERATURE (°F)	85	85
	MCA/MOCP (AMPS)	71 / 80	67 / 70
	NO. OF STEPS	2	2
MANUFACTURER		AAON	AAON
MODEL NO.		V3	V3
WEIGHT (LBS.)		660	600
NOTES		1, 2, 3, 4, 5, 6, 7	1, 2, 3, 4, 5, 6, 7

NOTES:
1. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO COIL(S), FILTERS, HOUSING, NOR ACCESSORIES.
2. PROVIDE UNIT WITH AN INTEGRAL DISCONNECT.
3. UNIT SHALL BE A VERTICAL GROUND MOUNTED UNIT WITH A TOP DISCHARGE AND A REAR RETURN INLET.
4. PROVIDE UNIT WITH A PLEATED, FLAT ORIENTATION MINIMUM OF MERV 11 FILTER.
5. PROVIDE UNIT WITH MODULATING HOT GAS REHEAT FOR HUMIDITY CONTROL.
6. PROVIDE INTERIOR COATING IN THE INTERIOR CASING RATED AT 2500 HOURS OF SALT SPRAY TESTING FOR COASTAL ENVIRONMENTS.
7. PROVIDE E-COATING (OR DIP AND BAKE) ON THE EVAPORATOR COIL RATED FOR COASTAL ENVIRONMENTS.

AIR COOLED CONDENSING UNIT SCHEDULE

MARK	ACCU-1	ACCU-2
SERVES	AHU-1	AHU-2
DESIGN TOTAL COOLING (MBH)	52.7	51.8
AMBIENT TEMP. (°F)	100	100
EER AT OPERATING CONDITIONS	14.2	14.2
FLA (AMPS)	20	20
MCA / MOCP (AMPS)	24 / 40	24 / 40
VOLTS/PHASE/HERTZ	208 / 3 / 60	208 / 3 / 60
WEIGHT (LBS.)	462	462
MANUFACTURER	AAON	AAON
MODEL NUMBER	CFA-005	CFA-005
NOTES	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6

NOTES:
1. PROVIDE CORROSION PROTECTION ON THE OUTDOOR COILS AND ENSURE THE CONDENSING UNIT IS RATED FOR OUTDOOR COASTAL ENVIRONMENTS.
2. INSTALL PER MANUFACTURERS SPECIFICATIONS.
3. REFRIGERANT LINES TO BE SIZED BY MANUFACTURER.
4. PROVIDE 5 YEAR PART WARRANTY AND 7 YEAR COMPRESSORY WARRANTY.
5. PROVIDE A STEEL BOTTOM FOR THE CONDENSING UNITS TO ALLOW DIRECT ANCHORAGE TO THE CONCRETE THE EQUIPMENT IS LOCATED ON.
6. ENSURE THE AIR COOLED CONDENSING UNIT IS SECURED TO WITHSTAND 150 MPH WINDS.

AIR DEVICE SCHEDULE

MARK	MFR. & MODEL	TYPE	REMARKS
A	TITUS TMS-AA	LOUVERED FACE SUPPLY AIR DIFFUSER	24"x24" FACE, ALUMINUM CONSTRUCTION WITH FRAME FOR LAY-IN CEILING.
B	TITUS 50F	EGGCRATE RETURN AIR GRILLE	ALUMINUM BORDER, 1"x1"x1" ALUMINUM CORE
C	TITUS 350FL	SIDEWALL RETURN AIR GRILLE	ALUMINUM CONSTRUCTION WITH FRAME FOR SURFACE MOUNT. 3/4" BLADE SPACING, 35° DEFLECTION WITH BLADES PARALLEL TO LONG DIMENSION. PROVIDE O.B.D. FOR DUCTED EXHAUST.

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR FINISH.
2. REFER TO MECHANICAL FLOOR PLAN FOR NECK SIZES.

HVLS FAN SCHEDULE

MARK	HVLS-1
DIAMETER (FT. Ø)	12
VOLTS/PHASE/HERTZ	208 / 3 / 60
MOTOR SIZE (HP)	1.5
WEIGHT (LBS.)	245
MAX SPEED (RPM)	139
MANUFACTURER	BIG ASS SOLUTIONS
MODEL NUMBER	PPX3-12
NOTES	1, 2, 3, 4, 5

NOTES:
1. PROVIDE FAN WITH NECESSARY MOUNTING HARDWARE. PROVIDE EXTENSION TUBES AS REQUIRED. MOUNT FAN ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
2. ENSURE ALL NECESSARY CLEARANCES ARE MAINTAINED AND MOUNT AT A LOCATION TO PREVENT ANY STROBING EFFECTS WITH SURROUNDING LIGHT FIXTURES.
3. PROVIDE A WALL MOUNTED VARIABLE SPEED SMART CONTROLLER/TEMPERATURE SENSOR.
4. FAN MOTOR SHALL BE GEARLESS DIRECT DRIVE.
5. MACROAIR, KELLEY/ENTREMATIC AND ALTRA-AIR ARE CONSIDERED ACCEPTABLE ALTERNATES.

DUCTLESS SPLIT SYSTEM SCHEDULE

OUTDOOR UNIT MARK	**ACCU-3**
SERVES	DS-1
RATED COOLING CAPACITY (BTUH)	18,200
AMBIENT TEMP. (°F)	105
VOLTS/PHASE/HERTZ	208 / 1 / 60
EER / SEER	12.6 / 20.5
MCA	19
MOCP	25
APPROXIMATE LINE LENGTH (FT.)	82
MANUFACTURER	LIEBERT
MODEL NUMBER	SRC18HPC
UNIT WEIGHT (LBS)	130
INDOOR UNIT MARK	**DS-1**
SERVES	IDF 130
UNIT TYPE	WALL MOUNTED
COOLING CAPACITY (BTUH)	18,200
CFM	735
MANUFACTURER	LIEBERT
MODEL NUMBER	SRC18HPN
UNIT WEIGHT (LBS)	40
NOTES	1, 2, 3, 4, 5, 6, 7

NOTES:
1. INDOOR UNIT SHALL RECEIVE POWER FROM THE OUTDOOR UNIT THROUGH FIELD SUPPLIED INTERCONNECTED WIRING.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. REFRIGERANT LINES TO BE SIZED BY MANUFACTURER BASED ON INSTALLED EQUIVALENT LINE LENGTH.
4. PROVIDE AND INSTALL A STAND-ALONE UNIT MANUFACTURER THERMOSTAT TO ENERGIZE FAN COIL UNIT ONCE SPACE TEMPERATURE REACHES 80 DEGREES FAHRENHEIT OR ABOVE (ADJUSTABLE).
5. PROVIDE UNIT WITH A CONDENSATE PUMP. ROUTE A FULL SIZE CONDENSATE DRAIN LINE TO THE APPROVED WASTE RECEPTACLE AS SHOWN ON THE FLOORPLANS.
6. PROVIDE A STEEL BOTTOM ON THE AIR COOLED CONDENSING UNIT TO ALLOW DIRECT ANCHORAGE TO THE CONCRETE THE EQUIPMENT IS LOCATED ON.
7. ENSURE THE AIR COOLED CONDENSING UNIT IS SECURED TO WITHSTAND 150 MPH WINDS.

LOUVER SCHEDULE

MARK	MFR. & MODEL	REMARKS
LD-1	GREENHECK EVH-501D - 24x14 CFM: 530 FREE AREA: 0.8 SQ. FT. AIR VELOCITY: 934 FPM	STATIONARY ALUMINUM EXHAUST LOUVER WITH AN INTERNALLY MOUNTED ALUMINUM BIRDSCREEN. LOUVER SHALL BE AMCA-500-L AIR PERFORMANCE, AMCA-500-L WATER PENETRATION, AMCA 540 DEBRIS IMPACT AND AMCA 550 HIGH VELOCITY WIND DRIVEN RAIN CERTIFIED. PROVIDE A COLOR AS SELECTED BY ARCHITECT. PROVIDE LOUVER WITH A BAROMETRIC BACKDRAFT DAMPER TO PREVENT AIR AND MOISTURE INFILTRATION WHEN THE ASSOCIATED FAN IS NOT OPERATING. ALL EXTERIOR LOUVERS TO BE TDI RATED.
LD-2	GREENHECK EVH-501D - 30x20 CFM: 2065 FREE AREA: 1.7 SQ. FT. AIR VELOCITY: 1,173 FPM	STATIONARY ALUMINUM EXHAUST LOUVER WITH AN INTERNALLY MOUNTED ALUMINUM BIRDSCREEN. LOUVER SHALL BE AMCA-500-L AIR PERFORMANCE, AMCA-500-L WATER PENETRATION, AMCA 540 DEBRIS IMPACT AND AMCA 550 HIGH VELOCITY WIND DRIVEN RAIN CERTIFIED. PROVIDE A COLOR AS SELECTED BY ARCHITECT. PROVIDE LOUVER WITH A BAROMETRIC BACKDRAFT DAMPER TO PREVENT AIR AND MOISTURE INFILTRATION WHEN THE ASSOCIATED FAN IS NOT OPERATING. ALL EXTERIOR LOUVERS TO BE TDI RATED.
LD-3	GREENHECK EVH-501D - 20x14 CFM: 520 FREE AREA: 0.6 SQ. FT. AIR VELOCITY: 868 FPM	STATIONARY ALUMINUM INTAKE LOUVER WITH AN INTERNALLY MOUNTED ALUMINUM BIRDSCREEN. LOUVER SHALL BE AMCA-500-L AIR PERFORMANCE, AMCA-500-L WATER PENETRATION, AMCA 540 DEBRIS IMPACT AND AMCA 550 HIGH VELOCITY WIND DRIVEN RAIN CERTIFIED. PROVIDE A COLOR AS SELECTED BY ARCHITECT. PROVIDE A TWO POSITION NORMALLY CLOSED MOTORIZED DAMPER THAT IS INTERLOCKED WITH THE ASSOCIATED SUPPLY FAN OPERATION. ALL EXTERIOR LOUVERS TO BE TDI RATED.
LD-4	GREENHECK EVH-501D - 30x20 CFM: 2065 FREE AREA: 1.7 SQ. FT. AIR VELOCITY: 1,173 FPM	STATIONARY ALUMINUM INTAKE LOUVER WITH AN INTERNALLY MOUNTED ALUMINUM BIRDSCREEN. LOUVER SHALL BE AMCA-500-L AIR PERFORMANCE, AMCA-500-L WATER PENETRATION, AMCA 540 DEBRIS IMPACT AND AMCA 550 HIGH VELOCITY WIND DRIVEN RAIN CERTIFIED. PROVIDE A COLOR AS SELECTED BY ARCHITECT. PROVIDE A BAROMETRIC DAMPER THAT IS CALIBRATED TO OPEN AT 0.08 IN. W.G. (ADJ.). ALL EXTERIOR LOUVERS TO BE TDI RATED.
LD-5	GREENHECK EVH-501D - 48x36 CFM: 6600 FREE AREA: 6.3 SQ. FT. AIR VELOCITY: 1,051 FPM	STATIONARY ALUMINUM INTAKE LOUVER WITH AN INTERNALLY MOUNTED ALUMINUM BIRDSCREEN. LOUVER SHALL BE AMCA-500-L AIR PERFORMANCE, AMCA-500-L WATER PENETRATION, AMCA 540 DEBRIS IMPACT AND AMCA 550 HIGH VELOCITY WIND DRIVEN RAIN CERTIFIED. PROVIDE A COLOR AS SELECTED BY ARCHITECT. NO DAMPER SHALL BE PROVIDED IN THE LOUVER. ALL EXTERIOR LOUVERS TO BE TDI RATED.
LD-6	GREENHECK EVH-501D - 24x18 CFM: 1400 FREE AREA: 1.1 SQ. FT. AIR VELOCITY: 1,224 FPM	STATIONARY ALUMINUM EXHAUST LOUVER WITH AN INTERNALLY MOUNTED ALUMINUM BIRDSCREEN. LOUVER SHALL BE AMCA-500-L AIR PERFORMANCE, AMCA-500-L WATER PENETRATION, AMCA 540 DEBRIS IMPACT AND AMCA 550 HIGH VELOCITY WIND DRIVEN RAIN CERTIFIED. PROVIDE A COLOR AS SELECTED BY ARCHITECT. PROVIDE LOUVER WITH A BAROMETRIC BACKDRAFT DAMPER TO PREVENT AIR AND MOISTURE INFILTRATION WHEN THE ASSOCIATED FAN IS NOT OPERATING. ALL EXTERIOR LOUVERS TO BE TDI RATED.
LD-7	GREENHECK EVH-501D - 30x24 CFM: 2750 FREE AREA: 2.5 SQ. FT. AIR VELOCITY: 1,104 FPM	STATIONARY ALUMINUM EXHAUST LOUVER WITH AN INTERNALLY MOUNTED ALUMINUM BIRDSCREEN. LOUVER SHALL BE AMCA-500-L AIR PERFORMANCE, AMCA-500-L WATER PENETRATION, AMCA 540 DEBRIS IMPACT AND AMCA 550 HIGH VELOCITY WIND DRIVEN RAIN CERTIFIED. PROVIDE A COLOR AS SELECTED BY ARCHITECT. PROVIDE LOUVER WITH A BAROMETRIC BACKDRAFT DAMPER TO PREVENT AIR AND MOISTURE INFILTRATION WHEN THE ASSOCIATED FAN IS NOT OPERATING. ALL EXTERIOR LOUVERS TO BE TDI RATED.
LD-8	GREENHECK EVH-501D - 48x24 CFM: 5000 FREE AREA: 3.8 SQ. FT. AIR VELOCITY: 1,320 FPM	STATIONARY ALUMINUM EXHAUST LOUVER WITH AN INTERNALLY MOUNTED ALUMINUM BIRDSCREEN. LOUVER SHALL BE AMCA-500-L AIR PERFORMANCE, AMCA-500-L WATER PENETRATION, AMCA 540 DEBRIS IMPACT AND AMCA 550 HIGH VELOCITY WIND DRIVEN RAIN CERTIFIED. PROVIDE A COLOR AS SELECTED BY ARCHITECT. PROVIDE LOUVER WITH A BAROMETRIC BACKDRAFT DAMPER TO PREVENT AIR AND MOISTURE INFILTRATION WHEN THE ASSOCIATED FAN IS NOT OPERATING. ALL EXTERIOR LOUVERS TO BE TDI RATED.
LD-9	GREENHECK EVH-501D - 48x32 CFM: 5000 FREE AREA: 5.4 SQ. FT. AIR VELOCITY: 918 FPM	STATIONARY ALUMINUM INTAKE LOUVER WITH AN INTERNALLY MOUNTED ALUMINUM BIRDSCREEN. LOUVER SHALL BE AMCA-500-L AIR PERFORMANCE, AMCA-500-L WATER PENETRATION, AMCA 540 DEBRIS IMPACT AND AMCA 550 HIGH VELOCITY WIND DRIVEN RAIN CERTIFIED. PROVIDE A COLOR AS SELECTED BY ARCHITECT. PROVIDE A BAROMETRIC DAMPER THAT IS CALIBRATED TO OPEN AT 0.08 IN. W.G. (ADJ.). ALL EXTERIOR LOUVERS TO BE TDI RATED.
LD-10	GREENHECK EVH-501D - 18x14 CFM: 590 FREE AREA: 0.6 SQ. FT. AIR VELOCITY: 1,063 FPM	STATIONARY ALUMINUM EXHAUST LOUVER WITH AN INTERNALLY MOUNTED ALUMINUM BIRDSCREEN. LOUVER SHALL BE AMCA-500-L AIR PERFORMANCE, AMCA-500-L WATER PENETRATION, AMCA 540 DEBRIS IMPACT AND AMCA 550 HIGH VELOCITY WIND DRIVEN RAIN CERTIFIED. PROVIDE A COLOR AS SELECTED BY ARCHITECT. PROVIDE LOUVER WITH A BAROMETRIC BACKDRAFT DAMPER TO PREVENT AIR AND MOISTURE INFILTRATION WHEN THE ASSOCIATED FAN IS NOT OPERATING. ALL EXTERIOR LOUVERS TO BE TDI RATED.
LD-11	GREENHECK EVH-660D - 18x12 CFM: 225 FREE AREA: 0.3 SQ. FT. AIR VELOCITY: 802 FPM	STATIONARY ALUMINUM INTAKE LOUVER WITH AN INTERNALLY MOUNTED ALUMINUM BIRDSCREEN. LOUVER SHALL BE AMCA-500-L AIR PERFORMANCE, AMCA-500-L WATER PENETRATION, AMCA 540 DEBRIS IMPACT AND AMCA 550 HIGH VELOCITY WIND DRIVEN RAIN CERTIFIED. PROVIDE A COLOR AS SELECTED BY ARCHITECT. PROVIDE A BAROMETRIC DAMPER THAT IS CALIBRATED TO OPEN AT 0.08 IN. W.G. (ADJ.). ALL EXTERIOR LOUVERS TO BE TDI RATED.
LD-12	GREENHECK EVH-501D - 20x12 CFM: 365 FREE AREA: 0.5 SQ. FT. AIR VELOCITY: 805 FPM	STATIONARY ALUMINUM INTAKE LOUVER WITH AN INTERNALLY MOUNTED ALUMINUM BIRDSCREEN. LOUVER SHALL BE AMCA-500-L AIR PERFORMANCE, AMCA-500-L WATER PENETRATION, AMCA 540 DEBRIS IMPACT AND AMCA 550 HIGH VELOCITY WIND DRIVEN RAIN CERTIFIED. PROVIDE A COLOR AS SELECTED BY ARCHITECT. PROVIDE A BAROMETRIC DAMPER THAT IS CALIBRATED TO OPEN AT 0.08 IN. W.G. (ADJ.). ALL EXTERIOR LOUVERS TO BE TDI RATED.
LD-13	GREENHECK EVH-501D - 22x20 INPUT BTU/H: 392,000 FREE AREA: 0.91 SQ. FT. AIR VELOCITY: 809 FPM	STATIONARY ALUMINUM COMBUSTION AIR INTAKE LOUVER WITH AN INTERNALLY MOUNTED ALUMINUM BIRDSCREEN. LOUVER SHALL BE AMCA-500-L AIR PERFORMANCE, AMCA-500-L WATER PENETRATION, AMCA 540 DEBRIS IMPACT AND AMCA 550 HIGH VELOCITY WIND DRIVEN RAIN CERTIFIED. PROVIDE A COLOR AS SELECTED BY ARCHITECT. PROVIDE A MINIMUM OF THE CALCULATED FREE AREA AS SHOWN. ALL EXTERIOR LOUVER TO BE TDI RATED.

NOTES:
1. COORDINATE EXACT MOUNTING HEIGHT, COLOR, FINISH, AND LOCATION WITH ARCHITECT.

FAN SCHEDULE

MARK	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6	SF-1
TYPE/DRIVE	INLINE/DIRECT	INLINE/DIRECT	INLINE/BELT	INLINE/DIRECT	INLINE/DIRECT	INLINE/DIRECT	INLINE/DIRECT
SERVES	DRESS/RR	MTRL STOR	EQPT STOR	EQPT SHOP	EQPT SHOP	HERB/GEN STOR	AHUS
CFM	530	2,065	5,000	2,750	2,750	590	600
EXT. S.P. (IN. W.G.)	0.95	0.55	0.25	0.55	0.70	0.40	0.65
HORSEPOWER	3/4	3/4	3/4	1	1	1/6	1/4
OPERATING RPM	1,976	1,725	1,226	1,630	1,719	1,725	1,725
SONES (MAX.)	17.7	16.4	12.1	16.9	17.7	8.3	11.9
VOLTS/PHASE/HERTZ	208 / 1 / 60	208 / 1 / 60	208 / 3 / 60	208 / 1 / 60	208 / 1 / 60	120 / 1 / 60	120 / 1 / 60
INSTALLATION DESCRIPTION	SUSPENDED	SUSPENDED	SUSPENDED	SUSPENDED	SUSPENDED	SUSPENDED	SUSPENDED
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER	SQ-98-VG	SQ-130-VG	BSQ-240	SQ-140-VG	SQ-140-VG	SQ-95-VG	SQ-99-VG
WEIGHT (LBS)	67	67	219	104	104	59	58
NOTES	1, 2, 3, 4	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3, 4

NOTES:
1. ALL FANS SHALL BE CAPABLE OF 120% OF THE SCHEDULED CFM BASED ON TOTAL STATIC PRESSURE.
2. STATIC PRESSURE SHOWN IS EXTERNAL TO FAN ONLY. BEFORE SELECTING FAN, MANUFACTURER SHALL ADD PRESSURE LOSSES THROUGH ACCESSORIES SUCH AS DAMPERS, MOTOR GUARD, WEATHERHOOD ETC... IN ORDER TO CALCULATE TOTAL STATIC PRESSURE.
3. PROVIDE INLINE FAN WITH VIBRATION ISOLATION HANGARS.
4. INLINE FAN OPERATION SHALL OPERATE WHEN EITHER AHU-1 OR AHU-2 IS IN OPERATION BASED ON THE ASSOCIATED UNIT'S OUTSIDE AIR'S MOTORIZED DAMPER POSTION.

ELECTRIC UNIT HEATER SCHEDULE

MARK	EUH-1	EUH-2	EUH-3	EUH-4	EUH-5	EUH-6	EUH-7	EUH-8	EUH-9
SERVES	EQPT. SHOP 134	EQPT. SHOP 134	MTRL. SHOP 138	MTRL. SHOP 138	EQPT. STRG. 140	EQPT. STRG. 140	EQPT. STRG. 140	HERBICIDE RM	GEN. STOR
INPUT AMPS	43.5	43.5	41.7	41.7	55.6	55.6	55.6	15.9	15.9
KW	15	15	12.5	12.5	20	20	20	3.3	3.3
VOLTS/PHASE/HERTZ	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/1/60	208/1/60
MOUNTING	WALL	WALL	WALL	WALL	WALL	WALL	WALL	WALL	WALL
MANUFACTURER	REDD-I	REDD-I	REDD-I	REDD-I	REDD-I	REDD-I	REDD-I	REDD-I	REDD-I
MODEL NO.	HLA20-208360-15.0-24	HLA20-208360-15.0-24	F3FUH15C03	F3FUH15C03	F3FUH20CA1	F3FUH20CA1	F3FUH20CA1	F1FUH03003	F1FUH03003
NOTES	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5

NOTES:
1. MOUNT TOP OF HEATERS WITHIN 36" OF THE BOTTOM OF STRUCTURE.
2. HEATER SHALL BE EQUIPPED WITH FACTORY INSTALLED THERMOSTAT. THE HEATER SHALL BE ENABLED ONCE THE SPACE TEMPERATURE REACHES 55 DEGREES FAHRENHEIT (ADJ.).
3. HEATER SHALL BE HEAVY-GAUGE STEEL CONSTRUCTION.
4. UNIT HEATERS SHALL HAVE A MINIMUM OF 5 SECONDS (ADJ.) BETWEEN START-UPS OF MULTIPLE HEATERS TO LIMIT EXCESSIVE VOLTAGE DROP ON THE GENERATOR.
5. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
6. ELECTRIC UNIT HEATER TO BE EXPLOSION PROOF.

COMBUSTION AIR CALCULATION

DESCRIPTION	QUANTITY IN BTUH
BTUH INPUT QUANTITY: PW-1	392,000
RE: NFPA 31: 5.5 Combustion Air for Commercial and Industrial Installations	
392,000 X 3,000 = 131 square inches of free area required = 0.91 square feet of free area required	
LOUVER SIZE PROVIDED: LD-13: 22"X20"	0.92 SQUARE IN. OF FREE AREA

NOTE: ALL EQUIPMENT LOCATED OUTDOORS SHALL BE SELECTED TO WITHSTAND 150 MPH WINDS AND SHALL BE SECURED DIRECTLY TO STRUCTURE/GRADE. ALL FANS, RELIEF HOODS, AND INTAKE HOODS SHALL BE SECURED TO CURB USING STEEL CABLES. ALL PIPE SUPPORTS AND CONDUIT SUPPORTS SHALL BE ANCHORED TO ROOF DECK. ALL AIR COOLED CONDENSING UNITS SHALL BE ANCHORED TO ROOF DECK. VIBRATION ISOLATORS SHALL INCLUDE UPLIFT SECUREMENT.

1 / M6.01 MECHANICAL SCHEDULES
NOT TO SCALE

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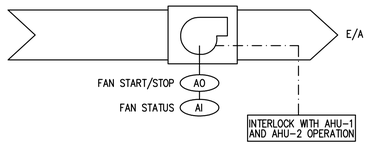
TXDOT PROJECT ID NUMBER
16-18700

PROJECT LOCATION
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ROCKPORT, TX
78382

PGAL PROJECT NUMBER
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SHEET TITLE
MECHANICAL SCHEDULES

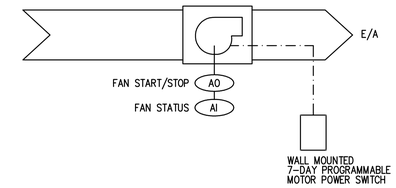
SHEET NUMBER
M6.01



System Operation -
The exhaust fan shall be enabled to run when either AHU-1 and AHU-2 are enabled to run.
The exhaust fan shall be disabled when both AHU-1 or AHU-2 are disabled.

System Setpoints - The setpoints for the system shall be set as follows:
The design airflow rate shall be set at the value given in the Mechanical Drawings.

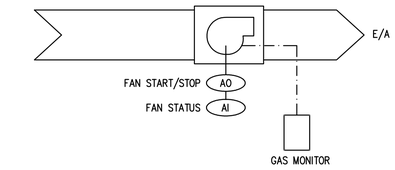
1 General Exhaust Fan (EF-1) - Control Schematic and Sequence of Operations
NOT TO SCALE



System Operation -
The exhaust fan shall be enabled to run as determined by the programmable time schedule of the motor power switch.

System Setpoints - The setpoints for the system shall be set as follows:
The design airflow rates shall be set at the values given in the Mechanical Drawings.

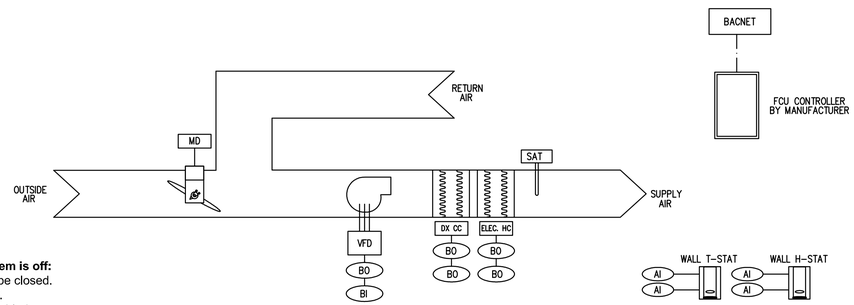
2 Exhaust Fans (EF-2, EF-3 and EF-4) - Control Schematic and Sequence of Operations
NOT TO SCALE



System Operation -
The exhaust fan shall be enabled to run when either the Low Level Alarm Gas Concentrations or the High Level Alarm Gas Concentrations are reached.

System Setpoints - The setpoints for the system shall be set as follows:
The design airflow rates shall be set at the values given in the Mechanical Drawings.

3 Exhaust Fans (EF-5) - Control Schematic and Sequence of Operations
NOT TO SCALE



System Off - When the system is off:
The outside air damper shall be closed.
The supply air fan shall be off.
The compressors shall be disabled.
The heating coil shall be disabled.
The control loops shall be disabled.

System Startup - System start-up shall be initiated:
By an operator entered manual command at the Fan Coil Unit Controller.
Automatically by the Fan Coil Unit Controller based on an owner determined Time of Day schedule.

System Operation - When system start-up has been initiated:
The variable speed supply air fan shall start. Following a conformation of fan start status, the supply fan speed shall be modulated to the minimum speed reference value. The speed of the fan shall not be adjusted by more than 20 Hz in any one-minute period. The speed reference values shall be determined during Testing and Balancing and coordinated by the contractors. The unit shall be controlled by one of the following modes:
COOLING MODE: When the space temperature is above the Cooling Setpoint, the supply fan speed shall be modulated between the minimum and maximum speed reference values and refrigerant compression shall be staged to maintain the space temperature within +/- 0.5 °F of the Cooling Setpoint.
HEATING MODE: When the space temperature is below the Heating Setpoint, the supply fan speed shall be modulated between the minimum and maximum speed reference values and the heating coil shall be staged to maintain the space temperature within +/- 0.5 °F of the Heating Setpoint.
DE-HUMIDIFICATION MODE: When the space humidity is above the space humidity high-limit setpoint, the supply fan speed shall be modulated to 50% of the design value and the refrigerant compression shall be staged to 100%. The refrigerant hot gas reheat valve shall be modulated to maintain the discharge air temperature within +/- 0.5 °F of the reheat setpoint.

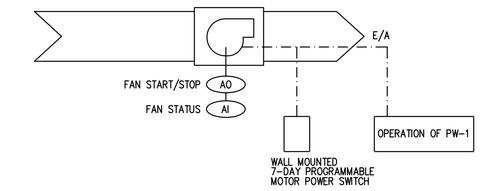
Supply Fan Output Control - The zone temperature shall be maintained by varying the quantity of air delivered to the zone. The supply fan shall modulate to maintain space temperature setpoint. On a decrease in cooling demand, the FCU shall reduce the volume of air being delivered to the zone to satisfy temperature setpoint. On an increase in cooling demand, the FCU shall increase the volume of air being delivered to the zone to satisfy temperature setpoint.

System Setpoints - The setpoints for the system shall be determined as follows:
The outside air damper shall be directly controlled by the START/STOP command of the Fan Coil Unit Controller, opening when the FCU is enabled and closing when it is disabled.
The maximum speed reference value shall be the speed required to obtain the design flow value from the unit schedule on the Mechanical Drawings.
The minimum speed reference value shall be 50% of the design flow value from the unit schedule on the Mechanical Drawings or as dictated by the manufacturer's operation instructions.
The Occupied Heating Setpoint shall be set initially at 72 °F (adjustable).
The Occupied Cooling Setpoint shall be set initially at 74 °F (adjustable).
The Unoccupied Heating Setpoint shall be set initially at 55 °F (adjustable).
The Unoccupied Cooling Setpoint shall be set initially at 85 °F (adjustable).
The space humidity high-limit setpoint shall be set initially at 60% RH (adjustable).
The reheat setpoint shall be set initially at 75 °F (adjustable).
The outside air flowrate setpoint shall be set at the scheduled flowrate.

System Shutdown - System shutdown shall be initiated:
By operator entered manual command at the EMCS.
Automatically by the EMCS based on Night-Setback or Time of Day schedule.
Automatically by the high-static pressure shut down.

System Alarms - The EMCS shall generate an alarm if:
If the supply air temperature is outside the established low and high limits, which shall be set at +/- 2 °F around the current setpoint.
All alarms shall be inhibited when the supply fan is not operating except the space temperature alarms. The alarms, except the fan failure and the space temperature alarms, shall remain inhibited following startup of the unit for 2 minutes.

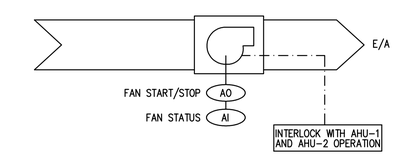
4 Direct Expansion Fan Coil Unit (FCU-1 and FCU-2) - Control Schematic and Sequence of Operations
NOT TO SCALE



System Operation -
The exhaust fan shall be enabled to run as determined by the programmable time schedule of the motor power switch.
The exhaust fan shall be interlocked with the operation of PW-1 such that EF-6 will not operate when PW-1 is in use.

System Setpoints - The setpoints for the system shall be set as follows:
The design airflow rates shall be set at the values given in the Mechanical Drawings.

5 Exhaust Fans (EF-6) - Control Schematic and Sequence of Operations
NOT TO SCALE



System Operation -
The supply fan shall be enabled to run when either AHU-1 and AHU-2 are enabled to run.
The supply fan shall be disabled when both AHU-1 or AHU-2 are disabled.

System Setpoints - The setpoints for the system shall be set as follows:
The design airflow rate shall be set at the value given in the Mechanical Drawings.

6 Ventilation Supply Fan (SF-1) - Control Schematic and Sequence of Operations
NOT TO SCALE

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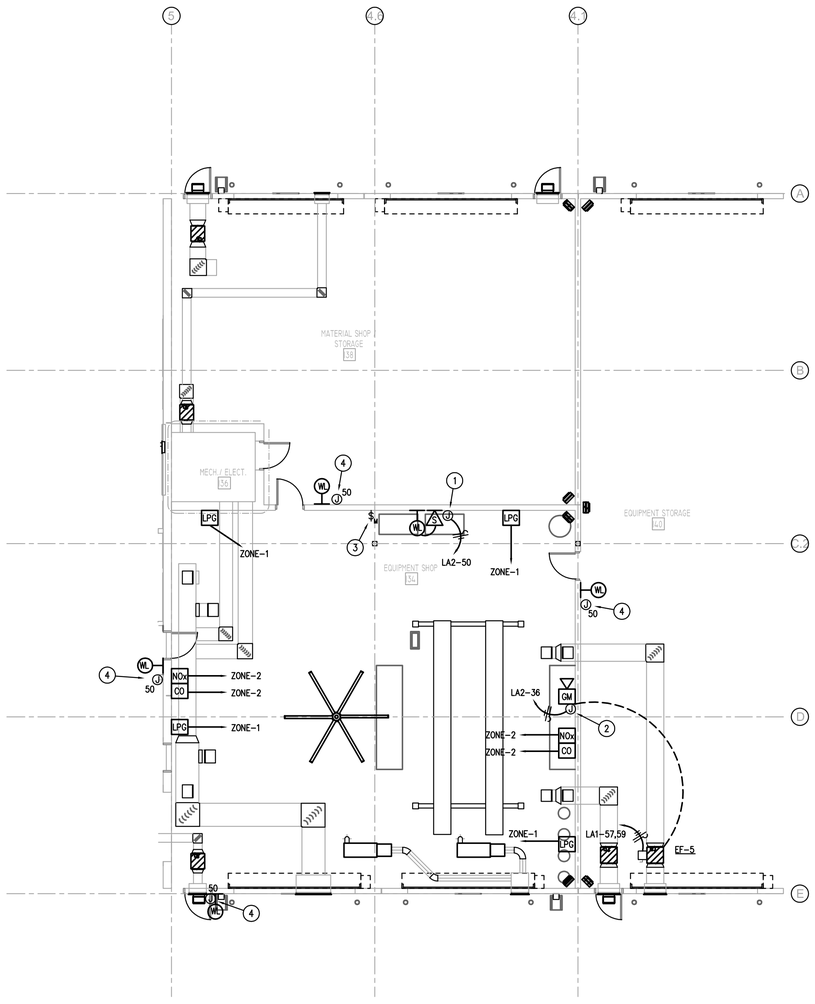
1003526

SHEET TITLE

MECHANICAL SCHEDULES

SHEET NUMBER

M7.01



1 ME2.01 GAS DETECTION PLAN

1/8" = 1'-0"

GAS DETECTION SEQUENCE OF OPERATIONS

1. GAS DETECTION SYSTEM SHALL BE ABLE TO ACTIVATE EXHAUST FAN, EF-5, SEND A SIGNAL TO THE FIRE ALARM PANEL AND ALERT OCCUPANTS OF HAZARDOUS CONDITIONS.
2. LOW LEVEL ALARM GAS CONCENTRATIONS ARE AS FOLLOWS:
   LIQUEFIED PETROLEUM GAS (LPG) – 20% LFL.
   CARBON MONOXIDE (CO) – 50 PPM.
   NITROGEN DIOXIDE (NOx) – 3 PPM.
3. HIGH LEVEL ALARM GAS CONCENTRATIONS ARE AS FOLLOWS:
   LIQUEFIED PETROLEUM GAS (LPG) – 40% LFL.
   CARBON MONOXIDE (CO) – 100 PPM.
   NITROGEN DIOXIDE (NOx) – 3 PPM.
4. INTERLOCKS OF GAS DETECTION SYSTEM WITH EXHAUST FANS SHALL BE PROVIDED AS FOLLOWS:
   4.1. NORMAL OPERATING CONDITIONS – EF-4 SHALL BE ENERGIZED VIA THE PROGRAMMABLE SWITCH AND PROVIDE A CONTINUOUS VENTILATION SWEEPING OF THE FLOOR AND CEILING TO SATISFY NEC-2014 ARTICLE 511.
   4.2. LOW LEVEL ALARM DETECTION OF SUSTAINED CONCENTRATIONS FROM ANY SENSOR SHALL ENERGIZE EF-5.
   4.3. HIGH LEVEL ALARM DETECTION OF SUSTAINED CONCENTRATIONS FROM ANY SENSOR SHALL ENERGIZE EF-5, THE RED LIGHT AT THE CONTROL PANEL, AND THE STROBE WARNING LIGHTS AND SIRENS.
5. WHEN GAS DETECTION SYSTEM IS IN FAULT STATUS, THE FOLLOWING SHALL OCCUR:
   5.1. EF-5 SHALL BE ENERGIZED AND THE BLINKING GREEN LIGHTS SHALL BE ENERGIZED AT THE CONTROL PANEL.
6. ALARM RETURN TO NORMAL STATUS:
   6.1. ALL SYSTEMS SHALL RETURN TO NORMAL STATE OF OPERATION.

LIQUID PETROLEUM GAS DETECTION LEGEND AND SCHEDULE

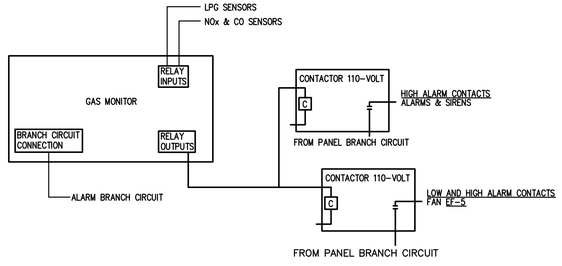
PLAN MARK	MANUFACTURER, MODEL/SIZE	DESCRIPTION
GM	ARMSTRONG, AMC-1AD2	MULTI-DROP DUAL ZONE GAS MONITORING SYSTEM WITH A HIGH AND A LOW ALARM. 120V/1PH, 10 AMP RELAY. SUPPLY VOLTAGE 120V/1PH/60HZ. FEATURING LED LOW, HIGH, AND FAIL INDICATION. INTERCONNECT EXHAUST FANS AND STROBE WARNING LIGHTS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
LPG	ARMSTRONG, AMC-1225 COMBUSTIBLE GAS	LIQUEFIED PETROLEUM GAS (LPG) MULT-DROP GAS SENSOR MODULE SHALL BE DAISY CHAINED TOGETHER, LEAVE THE TERMINATING JUMPER ON THE END SENSOR UNIT. SENSOR IS SOLID STATE, 20-40% LEL, PVC ENCLOSURE, MOUNT ALL SENSORS WITHIN 18" ABOVE FINISHED FLOOR.
NOx	ARMSTRONG, AMC-1222 COMBUSTIBLE GAS	NITROGEN DIOXIDE (NOx) MULTI-DROP GAS SENSOR MODULE SHALL BE DAISY CHAINED TOGETHER, LEAVE THE TERMINATING JUMPER ON THE END SENSOR UNIT. SENSOR IS SOLID STATE, 1-3 ppm, PVC ENCLOSURE, MOUNT ALL SENSORS WITHIN 60" ABOVE FINISHED FLOOR.
CO	ARMSTRONG, AMC-1222 COMBUSTIBLE GAS	CARBON MONOXIDE (CO) MULTI-DROP GAS SENSOR MODULE SHALL BE DAISY CHAINED TOGETHER, LEAVE THE TERMINATING JUMPER ON THE END SENSOR UNIT. SENSOR IS SOLID STATE, 25-100 ppm, PVC ENCLOSURE, MOUNT ALL SENSORS WITHIN 60" ABOVE FINISHED FLOOR.
WL	FEDERAL SIGNAL CORPORATION, ELECTRAFLASH MODEL #141ST-120A	"ELECTRAFLASH" STROBE WARNING LIGHT FEDERAL SIGNAL GRAINGER #3T948 LENS COLOR BLUE 120 VAC 0.06 AMPS. COMPLETE WITH MOUNTING KIT. GRAINGER #5T588. MOUNT LIGHTS 10 FT ABOVE FINISHED FLOOR.
S	FEDERAL SIGNAL CORPORATION, MODEL A-120 ELECTRIC SIREN, 120 VAC/DC. RED	GENERAL PURPOSE ELECTRO-MECHANICAL SIREN FOR INDUSTRIAL APPLICATIONS. 120VAC 1.8 AMPS. EQUIPPED WITH AN INTERNAL FAN, METAL HOUSING, RATED AT 108dB @ 10'. MOUNT ALL SENSORS 10 FEET ABOVE FINISHED FLOOR.

ELECTRICAL KEYED NOTES:

1. J-BOX FOR GAS DETECTION WARNING LIGHT. MOUNT STROBE LIGHTS AND SIRENS.
2. J-BOX FOR GAS MONITORING SYSTEM. MOUNT GAS MONITOR AT 48" A.F.F.
3. PROVIDE CONTROL SWITCH FOR EXHAUST FAN EF-5.
4. CONNECT GAS DETECTION WARNING LIGHTS TO CIRCUIT LA2-50.

GENERAL NOTES:

1. CONDUIT SUPPORTS, LIGHTING FIXTURE SUPPORTS, EQUIPMENT SUPPORTS, HANGERS, LIGHTING FIXTURES, OR ANY OTHER ELECTRICAL ITEM OR SUPPORT SHALL NOT BE DIRECTLY ATTACHED TO THE UNDERSIDE OF THE PURLINS. THESE ITEMS MAY BE ATTACHED TO THE WEB OR VERTICAL SECTION OF THE PURLINS BUT NOT TO THE BOTTOM FLANGE.
2. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RESISTANCE RATED WALLS. ALL PENETRATIONS SHALL BE PER IBC, NFPA 90A, AND NFPA 101.
3. UNLESS OTHERWISE NOTED, ALL HOME RUNS SHALL BE 3 # 12 THHN, 3/4" EMT CONDUIT.
4. ALL SENSOR CONNECTIONS SHALL BE 3 # 18 SHIELDED, 1/2" CONDUIT.
5. REFER TO THE SCHEDULE FOR INDIVIDUAL SENSOR MOUNT ELEVATIONS.
6. FIELD COORDINATE ALL SENSOR LOCATIONS TO ENSURE NONE ARE COVERED/BLOCKED BY CABINETRY, STORAGE, ETC.



2 ME2.01 LPG GAS DETECTION RISER

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1003526

SHEET TITLE

GAS DETECTION SYSTEM PLAN

SHEET NUMBER

ME2.01

ABBREVIATIONS

A

A	AMPERES
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT, AIR COMPRESSOR, ABOVE COUNTER
ACC	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AF	AMPERE FUSE, AMPERE FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPT CAPACITY
AL	ALUMINUM
AM	AMMETER
AMP	AMPLIFIER
ANN	ANNUNICATOR
AP	ACCESS PANEL, ALARM PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ASC	AMPERES SHORT CIRCUIT
AT	AMPERE TRIP RATING
ATS	AUTOMATIC TRANSFER SWITCH
AVG.	AVERAGE
AUX.	AUXILIARY
AWG.	AMERICAN WIRE GAUGE

B

BAS	BUILDING AUTOMATION SYSTEM
BC	BELOW COUNTER
BKR	BREAKER
BLDG.	BUILDING

C

C	CONDUIT, CELSIUS
CATV	CABLE TELEVISION SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION
CWP	CONDENSER WATER PUMP
CH	CHILLER
CHP	CHILLED WATER PUMP
CIRC	CIRCULATING
CKT	CIRCUIT
CL	CENTERLINE
CLG.	CEILING
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT.	CONTINUOUS,CONTINUATION
CONTR.	CONTROLLER, CONTRACTOR
CP.	CIRCULATING PUMP
CPUC	CPU CHILLER
CR	CARD READER, CORD REEL
CRU	CONDENSATE RETURN UNIT
CT	CURRENT TRANSFORMER, COOLING TOWER
CTR	CENTER
CU	COPPER

D

dB	DECIBEL
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DTL	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DP	DISTRIBUTION PANEL
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DR	DROPPED RECEPTACLE
DS	DAYLIGHT SENSOR
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWP	DOMESTIC WATER PUMP
DZ	DAYLIGHT ZONE

E

(E)	EXISTING
EA	EACH
EC	ELECTRICAL CONTRACTOR
E.C.	EMPTY CONDUIT
EDF	ELECTRIC DRINKING FOUNTAIN
EF	EXHAUST FAN
EFF	EFFICIENCY
EHC	ELECTRIC HEATING COIL
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMCS	ENERGY MANAGEMENT AND CONTROLS SYSTEM
EMERG	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
ENCL.	ENCLOSURE
ENGR.	ENGINEER
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
(ER)	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST

F

F	FAHRENHEIT, FAN, FIRE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FF	FURNITURE FEED
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
FP	FIRE PUMP, FAN POWERED
FPTB	FAN POWERED TERMINAL BOX
FRZR	FREEZER
FS	FUSED SWITCH, FLOW SWITCH
FSD	MOTORIZED FIRE SMOKE DAMPER
FT	FOOT, FEET
FTL	FEED-THRU LUGS
FUT	FUTURE
FVNR	FULL-VOLTAGE, NON-REVERSING

G

GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GTD	GENERATOR TRANSFER DEVICE
GUH	GAS UNIT HEATER

H

HACR	HEATING, AIR CONDITIONING RATED CIRCUIT BREAKER
HD	ELECTRIC HAND DRYER
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HS	HAND SET
HSC	HAND SCANNER
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HVU	HEATING/ VENTILATING UNIT
HWB	HOT WATER BOILER
HWC	HOT WATER CIRCULATOR
HWP	HEATING WATER PUMP
HZ	HERTZ

I

ID	INSIDE DIAMETER
IG	ISOLATED GROUND
IN	INCH
INCAND	INCANDESCENT
INT	INTERNAL, INTERIOR

J

JB	JUNCTION BOX
JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPMENT CONTRACTOR
KO	KNOCKOUT
kVA	KILOVOLT- AMPS
kW	KILOWATT
kWH	KILOWATT-HOUR

L

LED	LIGHT EMITTING DIODE
LF	LINEAR FEET
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
LV	LOW VOLTAGE TRANSFORMER
LVL	LEVEL

M

	METER
MAP	MASTER ALARM PANEL
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX.	MAXIMUM
MC	METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MECH.	MECHANICAL
MFR	MANUFACTURER
MH	METAL HALIDE
MIC	MICROPHONE
MIN.	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MV	MERCURY VAPOR

N

N3R	NEMA 3R ENCLOSURE
N4X	NEMA 4X ENCLOSURE
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NFS	NON-FUSED SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OAF	OUTSIDE AIR FAN
OAHU	OUTSIDE AIR HANDLING UNIT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OHE	OVERHEAD ELECTRICAL
OPG	OPENING

P

P	POLE, PUMP
PB	PUSHBUTTON
PC	PHOTOCELL
PH	PHASE
PL	PILOT LIGHT
PLBG	PLUMBING
PNEU	PNEUMATIC
PNL	PANEL
POS	POINT OF SALE
PP	POWER POLE
PR	PAIR
PRI	PRIMARY
PS	PHOTOSENSOR
PVC	POLYVINYL CHLORIDE
PWR	POWER

Q

QTY	QUANTITY

R

R	EXISTING TO BE REMOVED
RA	RETURN AIR
RAD	REFRIGERATED AIR DRYER
RAF	RETURN AIR FAN
RC	RECONNECT EXISTING DEVICE TO CIRCUIT INDICATED
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RE	REFERENCE, REFER
REC	RECEPTACLE
REFR	REFRIGERATOR
REINF	REINFORCING
REL	EXISTING TO BE RELOCATED
REL/EX	NEW LOCATION OF RELOCATED EQUIPMENT
REQD	REQUIRED
REV	REVISION, REVISE
RGS	RIGID GALVANIZED STEEL
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RR	REMOVE AND REPLACE
RTU	ROOFTOP UNIT

S

SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SCHED	SCHEDULE
SE	SEWAGE EJECTOR
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SKVA	STARTING KILOVOLT-AMPS
SKW	STARTING KILOWATTS
SP	SUMP PUMP
SPEC	SPECIFICATION
SPF	STAIR PRESSURIZATION FAN
SPKR	SPEAKER
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
SQ.	SQUARE
SRF	SMOKE REMOVAL FAN
SS	START-STOP PUSH BUTTON
SSSC	SOLID STATE SPEED CONTROL
ST	SHUNT TRIP
STB	STEAM BOILER
STD	STANDARD
STL	STEEL
SURF	SURFACE
SW	SWITCH
SWBD	SWITCHBOARD

T

TC	TEMPERATURE CONTROL
TEL	TELEPHONE
TF	TRANSFER FAN
TL	TWIST-LOCK
TOC	TOP OF CURB
TOS	TOP OF STEEL
TP	CHILD TAMPER PROOF DEVICE
TSTAT	THERMOSTAT
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TU	TERMINAL UNIT
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL

U

UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTABLE POWER SYSTEM

V

V	VOLT
VA	VOLT-AMPERE
VAV	VARIABLE AIR VOLUME
VC	VOLUME CONTROL
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VP	VACUUM PUMP
VM	VOLT METER

W

W	WATT, WIRE, WIDTH
WG	WIREGUARD
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
WS	WATER SOFTENER
WT	WATERTIGHT, WEIGHT
WWF	WELDED WIRE FABRIC
W/FT²	WATTS PER SQUARE FOOT

X

XFMR	TRANSFORMER

Z

Z	ZONE

ELECTRICAL SYMBOLS

MOTORS AND CONTROLS

- (5) SINGLE OR THREE PHASE MOTOR NUMBER INDICATES HORSE POWER
- ELECTRIC DUCT HEATER
- DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLE/FUSE, "NF" DENOTES NON-FUSED "N3R" DENOTES NEMA 3R
- ENCLOSED CIRCUIT BREAKER- "200/3/150" DENOTES AMPERES/POLE/TRIP.
- MOTOR STARTER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER, "30/3/15/#0" DENOTES AMPERES/POLES/FUSE/ STARTER SIZE, "NF" DENOTES NON-FUSED, FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- VFD VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- EPO EMERGENCY POWER OFF BUTTON.

RECEPTACLES AND OUTLETS

ALL RECEPTACLES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

- SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
- DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
  - "GFCI" DENOTES GROUND FAULT INTERRUPTER,
  - "WP" DENOTES WEATHERPROOF,
  - "IG" DENOTES ISOLATED GROUND,
  - "TR" DENOTES SAFETY TYPE, (TAMPER PROOF)
  - "DR" DENOTES DROPPED RECEPTACLE,
  - "USB" DENOTES RECEPTACLE WITH UNIVERSAL SERIAL BUS,
  - "AC" DENOTES ABOVE COUNTER MOUNTING, SEE
  - "UC" DENOTES UNDER COUNTER MOUNTING, SEE
  - "H" DENOTES HORIZONTALLY ORIENTED RECEPTACLE, SEE ARCHITECTURAL PLANS FOR EXACT MOUNTING HEIGHT.
- (R) DUPLEX WALL RECEPTACLE ON EMERGENCY CIRCUIT, RED COLOR.
- DUPLEX WALL RECEPTACLE ON A CIRCUIT DEDICATED TO DATA PROCESSING, GRAY COLOR. PROVIDE ISOLATED GROUND TYPE RECEPTACLES WHERE NOTED.
- SPLIT WIRED RECEPTACLE. TOP RECEPTACLE SHALL BE SWITCHED ACCORDING TO PLANS, AND BOTTOM SHALL REMAIN UNSWITCHED.
- SP CONTROLLED DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V. "SP" DENOTES SPLIT WIRED
- FOURPLEX (DOUBLE DUPLEX) WALL RECEPTACLE. NEMA 5-20R, 20A, 125V.
- (R) FOURPLEX WALL RECEPTACLE ON EMERGENCY CIRCUIT, RED COLOR.
- CONTROLLED FOURPLEX (DOUBLE DUPLEX) WALL RECEPTACLE. NEMA 5-20R, 20A, 125V.
- SPECIAL RECEPTACLE, NEMA CONFIGURATION AS NOTED.
- TWO-GANG FLOOR OUTLET
- THREE-GANG FLOOR OUTLET
- MULTI-OUTLET SURFACE RACEWAY. SEE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS.
- J JUNCTION BOX
  - "MD" DENOTES MOTOR DAMPER,
  - "CR" DENOTES CORD REEL,
  - "D" DENOTES DROP CORD RECEPTACLE,
- DUPLEX RECEPTACLE WITH HOMERUN
- DUPLEX RECEPTACLE (PEDESTAL MOUNTED)
- TWO-GANG CEILING OUTLET
- D R P FLUSH ELECTRICAL FLOOR OUTLET, "P" DENOTES POKE-THRU.
- PP POWER POLE
- DIRECT CONNECTION TO EQUIPMENT
- P PULL BOX (OVER 4" SQUARE)
- C(2) CLOCK RECEPTACLE SHALL BE MOUNTED 12" BELOW FINISHED CEILING. (2) DENOTES DOUBLE SIDED CLOCK.

LIGHTING

LETTER(S) DENOTE TYPE- SEE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

- 2' X 4' LIGHTING FIXTURE.
- 2' X 2' LIGHTING FIXTURE.
- 1' X 4' LIGHTING FIXTURE.
- 1' X 2' LIGHTING FIXTURE.
- 1' X 1' LIGHTING FIXTURE.
- STRIP LIGHTING FIXTURES.
- STAGGERED STRIP LIGHTING FIXTURE.
- ROUND DOWNLIGHT FIXTURE.
- SQUARE DOWNLIGHT FIXTURE.
- WALL MOUNTED LIGHTING FIXTURE.
- TRACK LIGHTING FIXTURE. MOUNTED AS SHOWN ON LIGHTING FIXTURE SCHEDULE.
- CEILING MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- WALL MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- EMERGENCY WALL MOUNTED LIGHTING FIXTURE. BATTERY OPERATED UNLESS NOTED OTHERWISE.
- SECURITY WALL PACK
- SITE LIGHTING FIXTURE.
- POST-TOP FIXTURE/ACORN FIXTURE BRACKET ARM INDICATES WALL MOUNT WITH ARM
- EMERGENCY LIGHT FIXTURE WITH BATTERY PACK. PROVIDE WITH UNSWITCHED HOT FOR LOSS OF VOLTAGE AND CHARGING (SAME CIRCUIT AS NORMAL POWER LIGHTING). FIXTURES SHALL BE WIRED IN A MANNER AS TO ALLOW SWITCHING OF FIXTURES WITHOUT DISCHARGING THE EMERGENCY BATTERY. BATTERY PACK IS TO ONLY OPERATE IN THE EVENT OF A POWER OUTAGE.
- EM CIRCUIT LIGHT FIXTURE ON EMERGENCY BRANCH CIRCUIT, CIRCUIT NUMBER ADJACENT TO FIXTURE INDICATES EMERGENCY CIRCUIT CONNECTED TO FIXTURE. PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND FOR ALL EMERGENCY LIGHTING ORIGINATING FROM THE EMERGENCY CIRCUIT SHOWN.
- NL EMERGENCY "NIGHT LIGHT" LIGHT FIXTURE. LIGHT FIXTURE IS UNSWITCHED AND INTENDED FOR 24 HOUR OPERATION. FEED VIA UNSWITCHED HOT.

DAYLIGHT ZONE/PRIMARY DAYLIGHT ZONE

SECONDARY DAYLIGHT ZONE

RACEWAYS AND WIRING

- CAP AND STAKE
- CONDUIT CONCEALED IN WALL OR CEILING
- CONDUIT UNDERSLAB OR UNDERGROUND
- EM EMERGENCY CONDUIT
- EXPOSED CONDUIT
- DB UNDERGROUND CONDUIT, "DB" DENOTES DUCTBANK ENCASED IN CONCRETE
- OHE OVERHEAD ELECTRIC PRIMARY UTILITY POWER LINE
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- HASH MARKS INDICATE NUMBER OF CONDUCTORS. LEFT TO RIGHT: PHASE/NEUTRAL/SWITCH LEG/GROUND/ISOLATED GROUND. NO HASH MARKS INDICATES 2# 12, PLUS GROUND, UNLESS NOTED OTHERWISE.
- LA-2,4 HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
- (ON)LA-6 PARTIAL CIRCUIT HOMERUN TO PANEL.
- T COMMUNICATIONS CONDUIT OR CABLE:
  - "CL" DENOTES MASTER CLOCK,
  - "CR" DENOTES CASH REGISTER
  - "D" DENOTES DATA,
  - "FA" DENOTES FIRE ALARM,
  - "I" DENOTES INTERCOM,
  - "OHE" DENOTES OVERHEAD ELECTRICAL LINE.
  - "PA" DENOTES PAGING,
  - "S" DENOTES SECURITY,
  - "T" DENOTES TELEPHONE,
  - "V" DENOTES VIDEO,
- TELECOMMUNICATIONS CABLE TRAY TO BE CONCEALED ABOVE ACCESSABLE CEILING.

ELECTRICAL EQUIPMENT

- DISTRIBUTION PANEL
- MSB SWITCHBOARD, MAIN DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
- PANELBOARD (FLUSH/SURFACE MOUNT)
- FLOOR MOUNTED DRY-TYPE TRANSFORMER
- SUSPENDED OR WALL MOUNTED TRANSFORMER
- ATS AUTOMATIC TRANSFER SWITCH
- FIRE RATED PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4' X 8' X 3/4" UNLESS NOTED OTHERWISE
- TERMINAL CABINET (FLUSH/SURFACE MOUNT), TYPE AS NOTED, 24" X 48" X 3-1/2" UNLESS NOTED OTHERWISE.
- BAT BATTERY/INVERTER UNIT
- LV LOW VOLTAGE TRANSFORMER.

COMMUNICATIONS

ALL OUTLET BOXES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

THE FOLLOWING NOTATIONS REFER TO ALL COMMUNICATIONS OUTLETS:
"FAX" DENOTES OUTLET DEDICATED FOR A FAX,
"W" DENOTES WALL PHONE SHALL BE MOUNTED AT 42" A.F.F.
"PAY" DENOTES PAY PHONE SHALL BE MOUNTED 42" A.F.F.

- HS SCHOOL INTERCOMMUNICATION SYSTEM HANDSET.
- INDICATES THE LOCATION OF A NEW TECHNOLOGY WALL OUTLET. PROVIDE DUAL GANG BACK BOX. REFERENCE TECHNOLOGY SHEET FOR CONTENT.
- (M)W MICROPHONE FLOOR OUTLET, "W" INDICATES WALL MOUNTED "F" INDICATES FLOOR MOUNTED "H" INDICATES HANGING MOUNTED
- (S)VC CEILING MOUNTED SPEAKER. "VC" INDICATES VOLUME CONTROL ON SPEAKER.
- (S)L WALL MOUNTED SPEAKER. "L" INDICATED LOCAL SOUND REINFORCEMENT
- CB SCHOOL INTERCOMMUNICATION SYSTEM CALL-IN. PUSH BUTTON
- BELL, BUZZER OR CHIME AT 80+ A.F.F.
- VC VOLUME CONTROL - WALL MOUNTED
- (A)W AUXILIARY INPUT JACK. "W" INDICATES WALL MOUNTED "F" INDICATES FLOOR MOUNTED "H" INDICATES HANGING MOUNTED
- AVO "HIGH" PORTION OF "HIGH/LOW" OUTLETS, REFER TO OUTLET DETAIL.
- AVI "LOW" PORTION OF "HIGH/LOW" OUTLETS, REFER TO OUTLET DETAIL.
- C(2) LV LOW VOLTAGE CLOCK SHALL BE MOUNTED 12" BELOW FINISHED CEILING. (2) DENOTES DOUBLE SIDED CLOCK.

REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

ONE LINE AND RISER DIAGRAMS

- TRANSFORMER, TYPE AND RATINGS AS NOTED
- 800A/3P SWITCH, RATING AS SHOWN
- 400A FUSE, RATING AS SHOWN
- CL CIRCUIT BREAKER, RATING AS SHOWN, 3 POLE UNLESS NOTED OTHERWISE. "CL" DENOTES CURRENT LIMITING
- DRAWOUT CIRCUIT BREAKER, RATINGS AS SHOWN, 3 POLE UNLESS NOTED OTHERWISE
- ST SHUNT TRIP
- GFI GROUND FAULT RELAY
- K KIRK-KEY INTERLOCK
- M DIGITAL METER
- A 0-2000 AMMETER, RANGE AS SHOWN
- AS AMMETER SWITCH
- V 0-600 VOLTMETER, RANGE AS SHOWN
- VS VOLTMETER SWITCH
- WH D-15 WATT-HOUR METER, "D" DENOTES DEMAND REGISTER "15" DENOTES MINUTES OF DEMAND INTERVAL
- 1200/5 CURRENT TRANSFORMER, RATED AS SHOWN
- 2.47KV/120V POTENTIAL TRANSFORMER, RATING AS SHOWN
- GROUND CONNECTION
- LIGHTING ARRESTOR
- G GENERATOR SET
- AUTOMATIC TRANSFER SWITCH
- BUS DUCT PLUG
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR
- M ELECTRICAL METER
- SPD SURGE PROTECTION DEVICE

GENERAL NOTES:

A. NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.

MISCELLANEOUS

- F SHADED SYMBOLS INDICATE EXISTING DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.
- INDICATES WALL-MOUNTED WHEN ATTACHED TO ANY SYMBOL
- 1 DRAWING NOTE REFERENCE
- 1 STARTER/DISCONNECT SCHEDULE REFERENCE
- 1 FEEDER SCHEDULE REFERENCE
- LC LIGHTING CONTACTOR
- TS TIME SWITCH
- PC PHOTOCELL
- PUSH BUTTON/DOOR BELL
- TC TIMECLOCK
- R RELAY
- SOS AREA OF RESCUE ASSISTANCE
- B BELL

SECURITY

- KP KEYPAD
- GB GLASS BREAK SENSOR
- H HOLD UP BUTTON
- DS INTERCOM DOOR STATION
- MS INTERCOM MASTER STATION
- LONG RANGE MOTION DETECTOR
- WALL MOUNTED MOTION DETECTOR
- CEILING MOUNTED MOTION DETECTOR
- IDF INTRUSION DETECTION PANEL
- DC DOOR CONTACT
- HPB ADA AUTO DOOR OPEN BUTTON
- DR DOOR RELEASE BUTTON
- CR CARD READER
- HCR WALL MOUNTED CARD READER

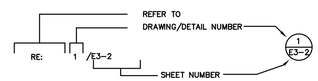
REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

SWITCHES

ALL WALL SWITCHES SHALL BE MOUNTED AT 42" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

- $ SWITCH, SPST, 20A, 120/277V.
- $2 SWITCH, 20A, 120/277V:
  - "2" DENOTES DPST,
  - "3" DENOTES THREE-WAY,
  - "4" DENOTES FOUR-WAY,
  - "K" DENOTES KEY SWITCH,
  - "P" DENOTES PILOT LIGHT,
  - "T" DENOTES SPRING WOUND TIMER.
  - "R" DENOTES RED
  - "F" DENOTES FAN SPEED CONTROLLER
  - "OC" DENOTES OCCUPANCY SENSOR SWITCH
  - "L" DENOTES LOCKING SWITCH
  - "LV" DENOTES LOW VOLTAGE SWITCH
- $MC SWITCH, SPDT, CENTER OFF, MOMENTARY CONTACT.
- $D DIMMER CONTROL SWITCH, 600 WATT UNLESS OTHERWISE NOTED.
- $3K THREE-WAY KEY SWITCH, 20A, 120/277V.
- $SC WALL MOUNTED SWITCH TO CONTROL MOTORIZED PROJECTION SCREENS.
- $M MOTOR RATED SWITCH WITH THERMAL OVERLOADS
- OC CEILING MOUNTED OCCUPANCY SENSOR
- MP MASTER OCCUPANCY SENSOR POWER PACK 120V DRIVER. MANUAL-ON/AUTOMATIC-OFF
- MP1 OCCUPANCY SENSOR POWER PACK. 120V DRIVER. AUTOMATIC-ON/AUTOMATIC-OFF
- DS DAYLIGHT/PHOTO SENSOR
- PS PARTITION SENSOR

DRAWING/DETAIL REFERENCE KEY



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REGISTRATION

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No.	DATE	DESCRIPTION
	12-6-2018	ISSUE FOR DESIGN DEVELOPMENT
	03-12-2019	ISSUE FOR 95% CD REVIEW
	04-12-2019	95% CONSTRUCTION DOCUMENTS
	05-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

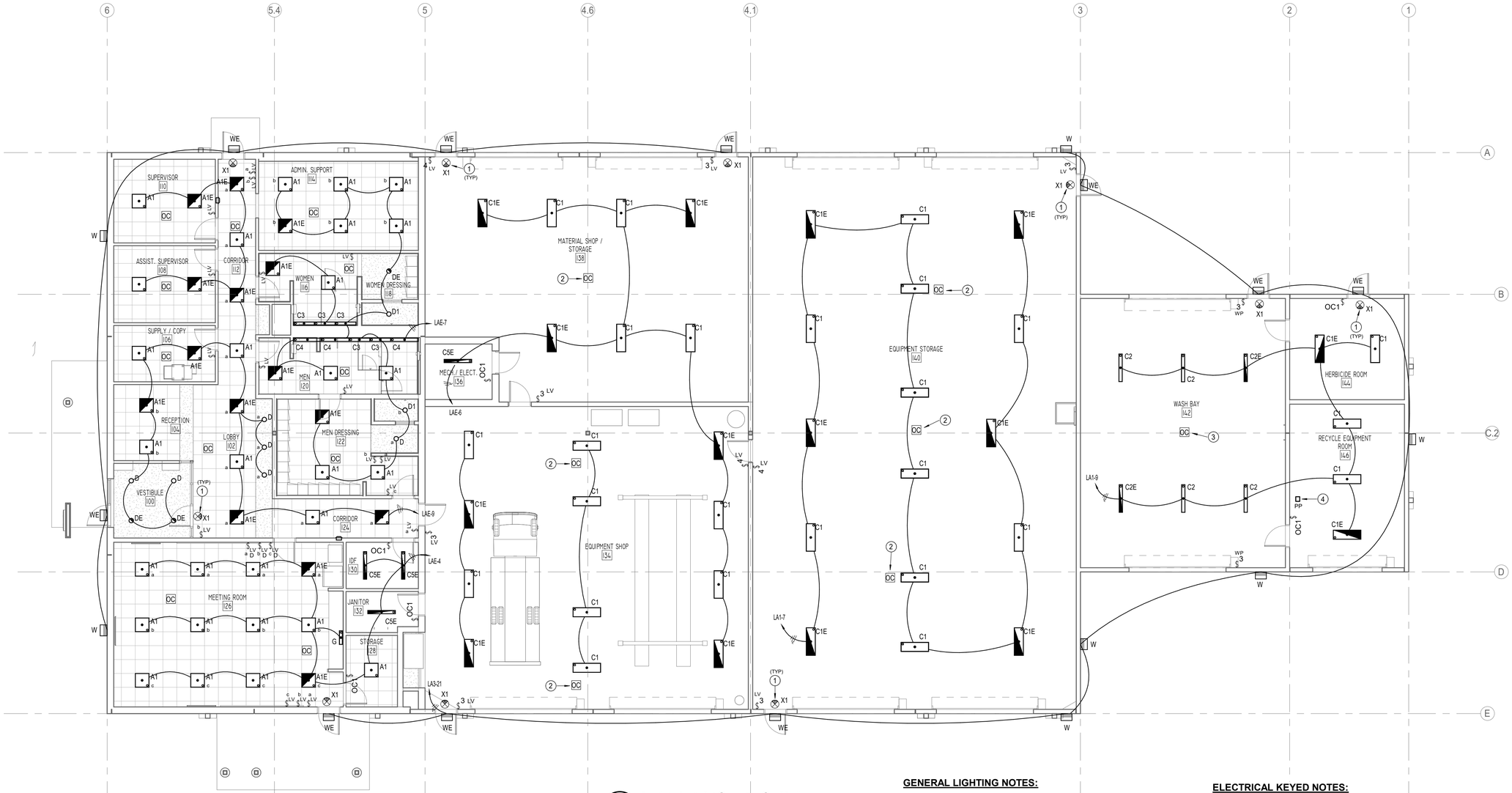
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SHEET TITLE

ELECTRICAL SYMBOL LEGEND

SHEET NUMBER

E0.01



1 EL2.01 LEVEL 1 LIGHTING PLAN

1/8" = 1'-0"

GENERAL LIGHTING NOTES:

A. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL DRAWINGS AND CONFIRM EXACT MOUNTING METHOD AND HEIGHTS OF ALL LIGHTING FIXTURES AND PROVIDE ALL NECESSARY HARDWARE PRIOR TO INSTALLATION.

B. EMERGENCY LIGHTS AND EXIT SIGNS SHOWN ARE CONSIDERED A MINIMUM. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH LOCAL AUTHORITIES IF ADDITIONAL FIXTURES ARE REQUIRED.

C. ALL CEILING MOUNTED OCCUPANCY SENSORS SHALL BE WATTSTOPPER #DT-300. PROVIDE #BZ-150 UNIVERSAL VOLTAGE POWER PACKS AND OVERRIDE SWITCHES AS REQUIRED FOR CONTROL INDICATED. REFER TO DETAILS #5, 6 AND 7 ON SHEET E6.02. ALL POWER PACKS SHALL BE SET TO MANUAL-ON/AUTO- OFF UNLESS OTHERWISE NOTED.

D. ALL LOW VOLTAGE SWITCHES TAGGED AS "LV" SHALL BE WATTSTOPPER #LVSW-101 UNLESS NOTED OTHERWISE.

E. ALL DIMMERS TAGGED AS "D" SHALL BE WATTSTOPPER #DCLV1 UNLESS OTHERWISE NOTED. REFER TO LOW VOLTAGE SWITCH SCHEDULE ON THIS SHEET FOR ADDITIONAL SWITCH TYPES.

F. ALL WALL MOUNTED OCCUPANCY SENSORS LABELED AS "OC" SHALL BE WATTSTOPPER #DSW-100. REFER TO LOW VOLTAGE SWITCH SCHEDULE DETAIL #8/604 FOR ADDITIONAL SWITCH TYPES.

G. ALL CEILING MOUNTED DEVICES LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE CEILING TILE.

H. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED TOGETHER UNDER A COMMON COVER PLATE.

I. CONTRACTOR SHALL INDICATE LIGHTING CIRCUIT SERVING EACH SWITCH BY PROVIDING TYPE WRITTEN LABELING LOCATED ON INSIDE FACE OF EACH SWITCH COVER PLATE.

J. LOWER CASE CHARACTER ADJACENT TO SWITCH AND/OR LIGHTING FIXTURE INDICATES SWITCHING GROUP.

ELECTRICAL KEYED NOTES:

1. CONNECT ALL EXIT SIGNS TO CIRCUIT LAE-2. PROVIDE UNSWITCHED LEG TO PREVENT BATTERY BACK UP TO DISCHARGE.
2. OCCUPANCY LIGHTING SENSOR WATTSTOPPER #HB300B-L3. 35 FT RADIUS COVERAGE MOUNT AT SAME HEIGHT OF LIGHTING FIXTURES.
3. OCCUPANCY LIGHTING SENSOR WATTSTOPPER #HB300W-HBL3W WET LOCATION. 35 FT RADIUS COVERAGE MOUNT AT SAME HEIGHT OF LIGHTING FIXTURES.
4. WATTSTOPPER POWER PACK #BZ-150 TO SERVE WASH BAY 142 OCCUPANCY SENSOR CONTROLS.

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PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

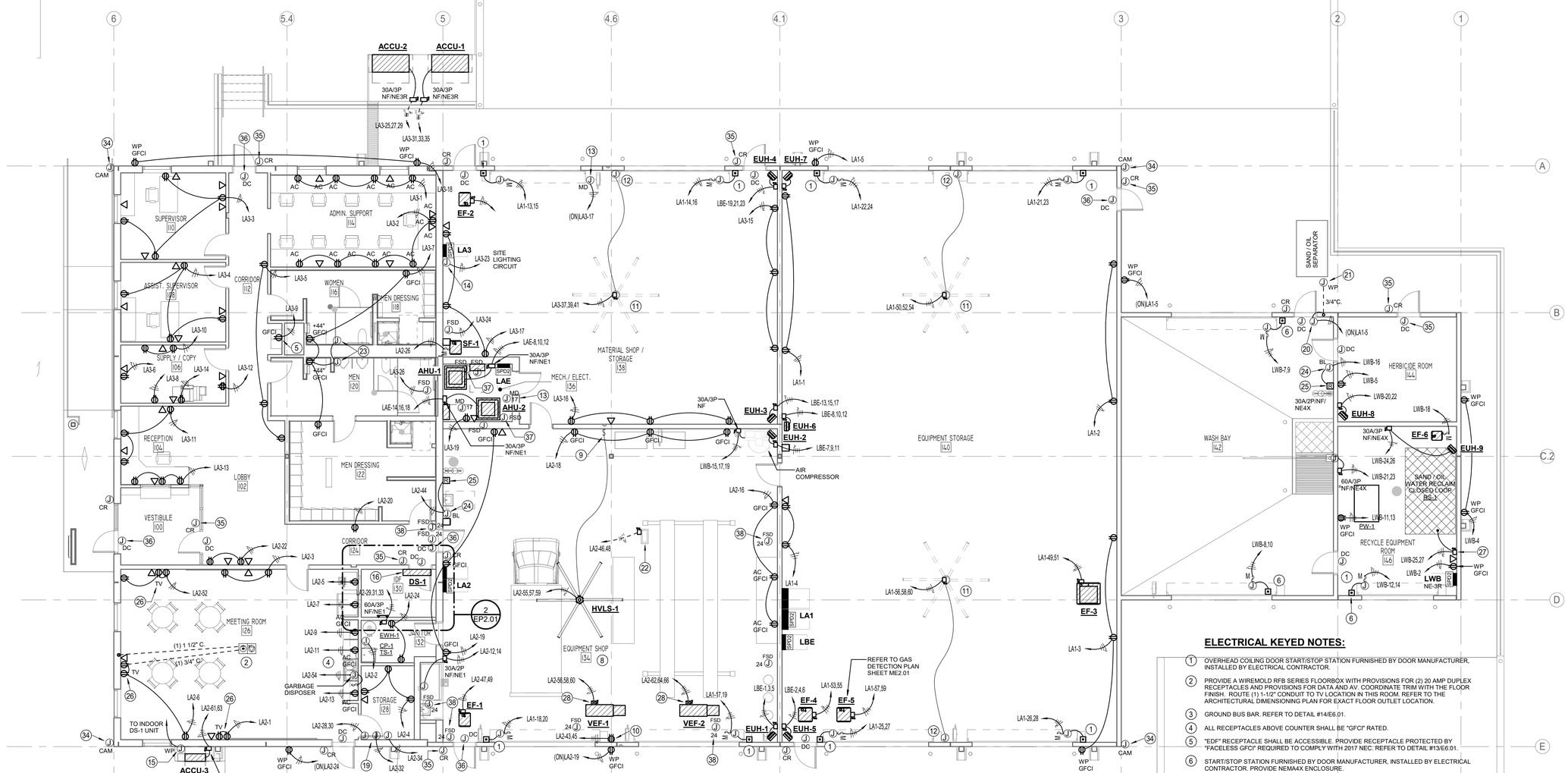
SHEET TITLE

LEVEL 1 LIGHTING PLAN

SHEET NUMBER

EL2.01

PLOTTED BY:
FILENAME: C:\Users\jgonzalez\Documents\180375_TXDOT Rockport-MEPT19_JGONZALEZ@DBRINC.COM.rvt
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GENERAL ELECTRICAL NOTES:

A. ELECTRICAL CONTRACTOR SHALL PROVIDE A DEDICATED NEUTRAL FOR ALL 120V CIRCUITS. SHARING OF NEUTRALS IS NOT PERMITTED.

B. CONTRACTOR SHALL VERIFY DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL CASEWORK AND MILLWORK ELEVATIONS.

C. PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES, AND PULLSTRING FOR ALL TELEPHONE OUTLETS, DATA OUTLETS, CATV OUTLETS AND SECURITY CAMERAS. REFER TO THE TECHNOLOGY "TS5" SERIES DRAWINGS FOR ADDITIONAL INFORMATION.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE RACEWAYS FOR ALL LOW VOLTAGE CABLING IN AREAS WITH EXPOSED STRUCTURE. NO CABLING SHALL BE ROUTED EXPOSED.

E. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL EXHAUST FAN CONTROLS. ALL EXHAUST FANS SHALL BE PROVIDED WITH BUILT-IN DISCONNECT SWITCH.

F. HVAC AND PLUMBING EQUIPMENT MAY DIFFER FROM LOCATIONS AS SHOWN ON ELECTRICAL DRAWINGS. COORDINATE EXACT LOCATIONS WITH MECHANICAL AND PLUMBING CONTRACTOR.

G. CONTRACTOR SHALL PROVIDE HANDLE TIES MANUFACTURED BY THE SWITCH GEAR SUPPLIER ON ALL MULTI-WIRE CIRCUITS TO MEET THE REQUIREMENTS OF ARTICLE 210.4(B) OF THE 2014 NEC. AT THE CONTRACTOR'S OPTION, TWO AND THREE POLE BREAKERS MAY BE USED.

H. CONTRACTOR SHALL INDICATE CIRCUIT SERVING EACH RECEPTACLE BY PROVIDING TYPE WRITTEN LABELING LOCATED ON INSIDE FACE OF EACH RECEPTACLE COVER PLATE.

I. ELECTRICAL CONTRACTOR SHALL ROUTE ELECTRICAL CONDUIT AND WIRING TO ALL ROOF HVAC EQUIPMENT THROUGH ROOF CURBS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

J. CONTRACTOR SHALL ARRANGE PANELBOARDS AND OTHER ELECTRICAL EQUIPMENT IN ELECTRICAL ROOM TO PROVIDE CLEARANCE PER NEC 110.26.

K. MECHANICAL CONTRACTOR SHALL FURNISH DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT. ELECTRICAL CONNECTIONS SHALL BE PROVIDED BY DIVISION 26. DISCONNECTS FOR FPT BOXES SHALL BE MOUNTED ADJACENT TO BOXES, NOT ON BOXES.

L. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. EACH GFCI PROTECTED RECEPTACLE SHARING THE SAME CIRCUIT SHALL HAVE ITS OWN RE-SET AND TEST BUTTON.

M. ALL OUTDOOR DEVICES SHALL BE GFCI/WEATHERPROOF.

N. PROVIDE ROUGH-IN FOR ALL THERMOSTATS. COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT NUMBER AND LOCATION.

O. PROVIDE CABLING GROMMETS AS REQUIRED FOR ON ALL POWER AND DATA RECEPTACLES MOUNTED UNDER COUNTER IN KNEE SPACE. COORDINATE WITH ARCHITECT PRIOR GROMMET INSTALLATION.

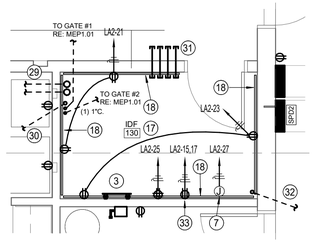
P. CONDUIT SUPPORTS, LIGHTING FIXTURE SUPPORTS, EQUIPMENT SUPPORTS, HANGERS, LIGHTING FIXTURES, OR ANY OTHER ELECTRICAL ITEM OR SUPPORT SHALL NOT BE DIRECTLY ATTACHED TO THE UNDERSIDE OF THE PURLINS. THESE ITEMS MAY BE ATTACHED TO THE WEB OR VERTICAL SECTION OF THE PURLINS BUT NOT TO THE BOTTOM FLANGE.

1 LEVEL 1 POWER PLAN

EP2.01 1/8" = 1'-0"

ELECTRICAL KEYED NOTES:

1. OVERHEAD COILING DOOR START/STOP STATION FURNISHED BY DOOR MANUFACTURER, INSTALLED BY ELECTRICAL CONTRACTOR.
2. PROVIDE A WIREMOLD RFB SERIES FLOORBOX WITH PROVISIONS FOR (2) 20 AMP DUPLEX RECEPTACLES AND PROVISIONS FOR DATA AND AV. COORDINATE TRIM WITH THE FLOOR FINISH. ROUTE (1) 1-1/2" CONDUIT TO TV LOCATION IN THIS ROOM. REFER TO THE ARCHITECTURAL DIMENSIONING PLAN FOR EXACT FLOOR OUTLET LOCATION.
3. GROUND BUS BAR. REFER TO DETAIL #14/E6.01.
4. ALL RECEPTACLES ABOVE COUNTER SHALL BE "GFCI" RATED.
5. "EDF" RECEPTACLE SHALL BE ACCESSIBLE. PROVIDE RECEPTACLE PROTECTED BY "FACELESS GFCI" REQUIRED TO COMPLY WITH 2017 NEC; REFER TO DETAIL #13/E6.01.
6. START/STOP STATION FURNISHED BY DOOR MANUFACTURER, INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE NEMA4X ENCLOSURE.
7. J-BOX FOR SECURITY PANEL. COORDINATE EXACT LOCATION WITH TECHNOLOGY DRAWINGS.
8. MOUNT ALL "GFCI" RECEPTACLES IN THIS ROOM AT 44" AFF.
9. HVLS-1 CONTROL PROVIDED BY MFR. INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE WITH OWNER FOR EXACT LOCATION PRIOR TO ROUGH-IN.
10. 208V RECEPTACLE FOR WELDING MACHINE. COORDINATE NEMA TYPE CONFIGURATION WITH OWNER AND EXACT LOCATION PRIOR TO ROUGH-IN.
11. PROVIDE ROUGH-IN POWER CIRCUIT FOR FUTURE CEILING FAN. PROVIDE EMPTY 3/4"C WITH PULLSTRING AND A J-BOX FOR FAN CONTROL. COORDINATE LOCATION OF CONTROL BOX WITH OWNER.
12. COORDINATE WITH OWNER FOR EXACT LOCATION OF THE FAN CONTROL PRIOR TO ROUGH-IN.
13. J-BOX FOR MOTORIZED DAMPER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR. CONNECT ALL MD'S TO CIRCUIT LA3-17. UNLESS NOTED OTHERWISE.
14. J-BOX FOR PARKING LOT AND SIGNLIGHTER, REFER TO SITE PLAN SHEET MEP101.
15. RUN (1) 1" EMPTY CONDUIT WITH PULLSTRING TO INDOOR UNIT DS-1. ELECTRICAL CONTRACTOR SHALL CONNECT POWER TO THE DS-1 FROM ACCU-3 UNIT. COORDINATE WITH MECHANICAL CONTRACTOR.
16. DS-1 UNIT TO BE POWERED FROM OUTDOOR ACCU-3. REFER TO KEYED NOTE #15.
17. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH TECHNOLOGY INSTALLER FOR EXACT LOCATION AND RECEPTACLES MOUNTING HEIGHTS FOR IDF EQUIPMENT IN THIS IDF ROOM.
18. PROVIDE 3/4"x4'x8' PLYWOOD FOR COMMUNICATION EQUIPMENT. PAINT PLYWOOD TO MATCH ROOM FINISH. VERIFY EXACT LOCATIONS WITH TECHNOLOGY DRAWINGS.
19. J-BOXES FOR OUTDOOR EMERGENCY GENERATOR, WATER JACKET HEATER, BATTERY CHARGER AND CONTROLS.
20. J-BOX FOR HIGH LEVEL ALARM PANEL TO MONITOR OUTDOOR SAND-OIL SEPARATOR.
21. WP, J-BOX FOR OUTDOOR SAND-OIL SEPARATOR ALARM WIRING. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.
22. VEHICLE LIFT POWER PANEL. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR DISCONNECT SWITCH LOCATION.
23. J-BOXES FOR WATER CLOSET AND URINALS AUTOMATIC FLUSH VALVES.
24. EDWARDS #867STRB-NS SURFACE MOUNTED ELECTRONIC HORN/STROBE WITH BLUE LENS. MOUNT DEVICE AT 96" AFF . PROVIDE AN ENGRAVED LABEL TO READ "EMERGENCY FIXTURE ACTIVATED".
25. EMERGENCY EYE WASH RELAY MONITORING UNIT. WATER FLOW OUT OF THE EYEWASH SHALL ACTIVATE THE HORN STROBE.
26. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL AND TECHNOLOGY DRAWINGS FOR EXACT TV /DATA RECEPTACLES MOUNTING HEIGHTS.
27. 30A/2P/NF/NE4X DISCONNECT SWITCH FOR WATER RECLAIM SYSTEM EQUIPMENT. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH-IN.
28. 30A/3P/NF/NE1 COMBINATION MOTOR STARTER/DISC. SW. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EXHAUST FAN CONTROL REQUIREMENTS.
29. UNDERGROUND COMMUNICATION CONDUITS TO AT & T COMMUNICATION PEDESTAL, REFER TO SITE PLAN MEP1.01 FOR CONTINUATION.
30. UNDERGROUND COMMUNICATION CONDUITS TO APPROXIMATE LOCATION OF FUTURE RADIO ANTENNA. REFER TO SITE PLAN MEP1.01 FOR CONTINUATION.
31. (4) 4" SLEEVES FOR DATA/COMM CABLING. COORDINATE WITH TECHNOLOGY DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT.
32. UNDERGROUND CONDUIT FOR "EXISTING "GPS" RADIO ANTENNA. REFER TO SITE PLAN MEP1.01 FOR CONTINUATION.
33. 208V/1 PH, TWIST-LOCK RECEPTACLE TO SERVE THE "UPS" UNIT. CONTRACTOR SHALL VERIFY NEMA TYPE CONFIGURATION WITH TECHNOLOGY DRAWINGS.
34. J-BOX FOR SECURITY CAMERA BACK BOX. REFER TO THE TECHNOLOGY TS5 SERIES SHEETS FOR CONDUIT INFORMATION, MOUNTING AND ELEVATION DETAILS.
35. J-BOX FOR CARD READER BACK BOX. REFER TO THE TECHNOLOGY TS5 SERIES SHEETS FOR CONDUIT INFORMATION, MOUNTING AND ELEVATION DETAILS (TYPICAL).
36. J-BOX FOR DOOR CONTACT BACK BOX. REFER TO THE TECHNOLOGY TS5 SERIES SHEETS FOR CONDUIT INFORMATION, MOUNTING AND ELEVATION DETAILS (TYPICAL).
37. J-BOX FOR FIRE SMOKE DAMPER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR. CONNECT ALL FSD'S IN THIS ROOM TO CIRCUIT LA3-26. UNLESS NOTED OTHERWISE.
38. J-BOX FOR MOTORIZED DAMPER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR. CONNECT ALL FSD'S TO CIRCUIT LA3-24. TYPICAL UNLESS NOTED OTHERWISE.



2 ENLARGED IDF ROOM POWER PLAN

EP2.01 1/4" = 1'-0"

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DBR Project Number	180375.000

WM	RM	JG	RS	WW

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WILLIAM MEISTER 101184 LICENSED PROFESSIONAL ENGINEER 5/10/19

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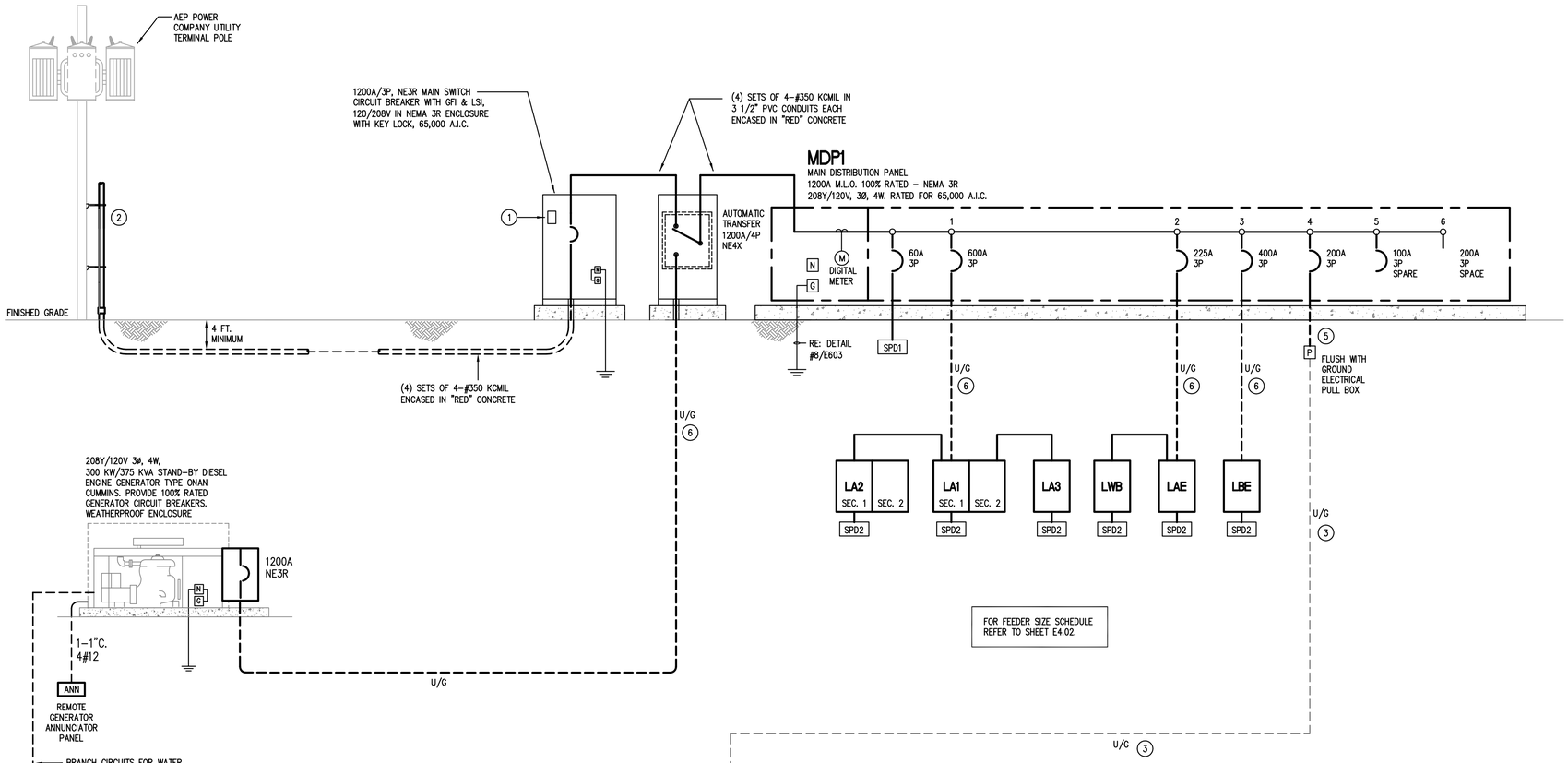
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LEVEL 1 POWER PLAN

SHEET NUMBER

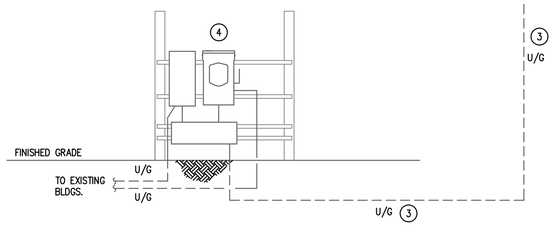
EP2.01

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1 E4.01 ELECTRICAL ONE LINE DIAGRAM

NOT TO SCALE



EXISTING BUILDINGS ONE LINE DIAGRAM

Load Analysis - Txdot Rockport Tx.
208`/ 120`, 3`-PHASE 4 -WIRE — Date:

DESCRIPTION						NEC	KVA
LIGHTING:							
OFFICE=	3,726	S.F.	X	1.11	W/S.F.	220.12	5.2
WAREHOUSE/SHOP/STORAGE=	9,575	S.F.	X	0.25	W/S.F.	220.12	3.0
EXTERIOR =	1,099	VA					1.1
POWER:							
RECEPTACLES =	13,301	S.F.	X	1 VA/SF	13301 VA	220.44	
First	10,000	V.A.	X	100%	10000 VA		10.0
Remaining	3,301	V.A.	X	50%	1651 VA		1.7
MISCELLANEOUS =	13,301	S.F.	X	4.0	W/S.F.		39.9
HVAC: (NON-COINCIDENTIAL)							
COOLING.=	36,100	VA					36.1
HEATING (WAREHOUSE)=	122,000	VA					122.0
HEATING (OFFICE)=	21,232	VA					21.2
FANS =	33,477	VA					33.5
PLUMBING:							
WATER HEATER =	9,000	VA					9.0
DRINKING FOUNTAIN =	370	VA					0.4
CIRCULATING PUMP =	696	VA					0.7
						TOTAL =	283.7
SQUARE FOOTAGE =	13,301					TOTAL AMPS:	787.4
						SERVICE SIZE:	1200.0
						SPARE AMPACITY	412.6

ONE LINE GENERAL NOTES:

A. CONTRACTOR SHALL INSTALL SERVICE LATERALS AND FEEDERS BASED ON THE OVER CURRENT DEVICE UNLESS OTHERWISE NOTED. CONTRACTOR SHALL REFER TO THE FEEDER SCHEDULE AND TRANSFORMER FEEDER SCHEDULES TO OBTAIN AND INSTALL THE SERVICE LATERALS AND FEEDERS REQUIRED.

B. MANUFACTURER OF ELECTRICAL GEAR SHALL PROVIDE A COORDINATION STUDY FOR THE ENTIRE ELECTRICAL SYSTEM IN ORDER TO SET BREAKERS. REFER TO SPECIFICATIONS. MANUFACTURER SHALL ALSO PROVIDE A FAULT CIRCUIT STUDY FOR THE ENTIRE ELECTRICAL SYSTEM IN ORDER TO SELECT INTERRUPTING RATINGS OF ALL CIRCUIT BREAKERS, DISTRIBUTION PANELBOARDS, PANELBOARDS, ETC. A SERIES RATED SYSTEM SHALL BE USED. SUBMIT INTERRUPTING RATING FOR ALL ELECTRICAL GEAR IN SUBMITTALS. CONTRACTOR SHALL PROVIDE WITH HIS SUBMITTALS ON ALL EQUIPMENT THE MANUFACTURES UL DATA LISTING THE SERIES RATING OF ALL EQUIPMENT. THIS SWITCHBOARD AND ALL NEW EQUIPMENT CONNECTED DOWNSTREAM SHALL BEAR LABELS INDICATING "SERIES RATED EQUIPMENT" ON THEIR EXTERIOR AS SPECIFIED IN THE SPECIFICATIONS. CONTRACTOR SHALL INSTRUCT MANUFACTURER TO INCLUDE IN HIS SUBMITTALS ALL TRIP CURVES AND ALL LITERATURE INDICATING THE INTERRUPTING RATING CHARACTERISTICS OF EQUIPMENT BEING SUPPLIED.

C. SWITCHBOARDS AND ALL EQUIPMENT CONNECTED DOWNSTREAM SHALL BEAR PERMANENTLY AFFIXED LABELS INDICATING AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. PROVIDE 2" X 3" WHITE PHENOLIC ENGRAVED LABEL WITH BLUE LETTERING WITH A CONTRASTING BACKGROUND. LABEL SHALL INDICATE THE DATE OF THE CALCULATION.

D. ALL CONDUCTORS SHALL BE COPPER, UNLESS NOTED OTHERWISE.

E. FEEDERS ARE SIZED BASED ON 2% VOLTAGE DROP FOR CALCULATED DISTANCES. CONTRACTOR SHALL VERIFY VOLTAGE DROP OF 2% OR LESS IS MET FOR FEEDERS BASED ON ACTUAL CONDUIT ROUTING.

F. PROVIDE THERMOGRAPHIC TESTING OF EQUIPMENT PER SPECIFICATION 26 02 00 3.07(F).

G. ALL VFD'S SHALL BE PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26.

H. ALL UNDERGROUND CONDUIT BENDS AS PER N.E.C.

ONE LINE DIAGRAM KEYED NOTES:

1. KIRK KEY AND ELECTRICAL INTERLOCK.
2. UTILITY POLE STAND-OFF BRACKETS CONDUIT RISER AS PER AEP POWER CO. STANDARDS.
3. EXISTING UNDERGROUND FEEDER SERVING EXISTING METAL BLDG. TO REMAIN.
4. EXISTING 200A/3P DISCONNECT SWITCH SERVING METAL BLDG. PANEL TO REMAIN.
5. CONTRACTOR SHALL INTERCEPT AND EXTEND EXISTING FEEDERS SERVING EXISTING BLOCK AND METAL BUILDINGS.
6. REFER TO SHEET E4.02 FOR FEEDER SCHEDULE.

CLIENT

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ELECTRICAL ONE LINE DIAGRAM

SHEET NUMBER

E4.01

FEEDER SCHEDULE

AMPERAGE	SETS	CONDUCTOR SIZE	CONDUIT (INCHES)
30A	1	4#10, 1#10 G.	3/4"C
40A	1	4#8, 1#10 G.	1"C
50A	1	4#8, 1#10 G.	1"C
60A	1	4#6, 1#10 G.	1"C
70A	1	4#4, 1#8 G.	1 1/4"C
80A	1	4#4, 1#8 G.	1 1/4"C
90A	1	4#3, 1#8 G.	1 1/4"C
100A	1	4#3, 1#8 G.	1 1/4"C
125A	1	4#1, 1#6 G.	1 1/2"C
150A	1	4#1/0, 1#6 G.	1 1/2"C
175A	1	4#2/0, 1#6 G.	2"C
200A	1	4#3/0, 1#6 G.	2"C
225A	1	4#4/0, 1#4 G.	2 1/2"C
250A	1	4#250KCMIL, 1#4 G.	2 1/2"C
300A	1	4#350KCMIL, 1#4 G.	3"C
350A	1	4#500KCMIL, 1#3 G.	3 1/2"C
400A	1	4#500KCMIL, 1#3 G.	4"C
450A	2	4#4/0, 1#2 G.	2 1/2"C
500A	2	4#250KCMIL, 1#2G.	2 1/2"C
600A	2	4#350KCMIL, 1#1G.	3"C
700A	2	4#500KCMIL, 1#1/0G.	4"C
800A	2	4#600KCMIL, 1#1/0G.	4"C
1000A	3	4#500KCMIL, 1#2/0G.	4"C
1200A	4	4#350KCMIL, 1#3/0G.	3"C
1600A	4(600) OR 5(500)	4#600KCMIL, 1#4/0G. OR 4#500KCMIL, 1#4/0G.	4"C
2000A	5(600) OR 6(500)	4#600KCMIL, 1#250KCMIL G. OR 4#500KCMIL, 1#250KCMIL G.	4"C
2500A	6(600) OR 7(500)	4#600KCMIL, 1#350KCMIL G. OR 4#500KCMIL, 1#350KCMIL G.	4"C
3000A	7(600) OR 8(500)	4#600KCMIL, 1#400KCMIL G. OR 4#500KCMIL, 1#400KCMIL G.	4"C
3500A	9(600) OR 10(500)	4#600KCMIL, 1#500KCMIL G. OR 4#500KCMIL, 1#500KCMIL G.	4"C
4000A	10(600) OR 11(500)	4#600KCMIL, 1#500KCMIL G. OR 4#500KCMIL, 1#500KCMIL G.	4"C
5000A	12(600) OR 14(500)	4#600KCMIL, 1#700KCMIL G. OR 4#500KCMIL, 1#700KCMIL G.	4"C

1. ELECTRICAL CONTRACTOR SHALL PROVIDE THE NUMBER OF LUGS AND PROPER LUG SIZES TO ACCEPT CONDUCTOR SIZES SHOWN.
2. GROUND NOT REQUIRED AT SERVICE LATERAL.

SURGE PROTECTION DEVICE (SPD) SCHEDULE

MARK	MANUFACTURER	MODEL #	VOLTAGE	PER MODE/PHASE rating	PHASE	BREAKER SIZE	ACCUGUIDE CABLE SIZE
SPD1	ASCO (LIEBERT)	560120YP25ACCG10	208/120	125/250kA	3	60A/3P	5 #6, 1 1/2" C.
SPD2	ASCO (LIEBERT)	510120YP16ACAJ20	208/120	80/160kA	3	30A/3P	5 #10, 1 1/2" C.

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	MOUNTING	LAMPS	LOAD	VOLTS	REMARKS	NOTES
A1	DAYBRITE #2EVG-38L-840-2-D-UNV-DIM	LAY-IN	LED (BY MFR)	33VA	UNV	2'x2' LED LIGHT FIXTURE. SATIN WHITE LENS, 4000°K , 3800 LUMENS	
A1E	DAYBRITE #2EVG-48L-840-2-D-UNV-DIM-EMLED	LAY-IN	LED (BY MFR)	33VA	UNV	SAME AS TYPE "A" EXCEPT WITH EMERGENCY BATTERY PACK.	
C1	DAYBRITE #FBY12L840UNV-WC5	SUSPENDED	LED (BY MFR)	88VA	UNV	INDUSTRIAL 1'x2' HIGH BAY LED FIXTURE. 4000K, 12000 LUMENS.	
C1E	DAYBRITE #FBY12L840UNV-WC6-BSL10LST	SUSPENDED	LED (BY MFR)	88VA	UNV	SAME AS TYPE "C1" EXCEPT WITH EMERGENCY BATTERY PACK.	
C2	DAYBRITE #APX20LL40-UNV	SURFACE	LED (BY MFR)	168VA	UNV	INDUSTRIAL 1'x4' HIGH BAY LED FIXTURE U.L. FOR WET LOCATION. 4000K, 20000 LUMENS WITH HIGH IMPACT ACFYLIC LENS.	
C2E	DAYBRITE #APX20LL40-UNV-EMLED	SURFACE	LED (BY MFR)	168VA	UNV	SAME AS TYPE "C2" EXCEPT WITH EMERGENCY BATTERY PACK.	
C3	LEDALITE #4908LAEQSNXX7DECC4S-TRIM	RECESSED	LED (BY MFR)	21VA	UNV	PERIMETER LINEAL LED. 4000K. VERIFY LENGHTS AS PER THE ARCHITECTURAL DRAWINGS.	
C4	LEDALITE #4908LAEQSNXX7DECC4S-TRIM	RECESSED	LED (BY MFR)	28VA	UNV	PERIMETER LINEAL LED, 4000K. VERIFY LENGHTS AS PER THE ARCHITECTURAL DRAWINGS.	
C5E	DAYBRITE #FSS4-70L-840-UNV-DIM-EMLED	SURFACE	LED (BY MFR)	58VA	UNV	4 LINEAR LED, 4000K WITH EMERGENCY BATTERY PACK.	
D	LIGHTOLIER #6RN-P6RDL25840CCZ10U	RECESSED	LED (BY MFR)	26VA	UNV	6" DIA. DOWNLIGHT. SEMI-DIFFUSE LENS, 2500 LUMEN, 4000K.	
DE	LIGHTOLIER #6RNEM-P6RDL25840CCZ10U	RECESSED	LED (BY MFR)	26VA	UNV	SAME AS TYPE "D" EXCEPT WITH EMERGENCY BATTERY PACK.	
D1	LIGHTOLIER #6RN-C6L20840WZ10U-C6RDLSLWH	RECESSED	LED (BY MFR)	16VA	UNV	6" DIA. DOWNLIGHT SHOWER LIGHT, WET LOCATION. SEMI-DIFFUSE LENS, 2000 LUMEN, 4000K, U.L. FOR WET LOCATION.	
G	DIODE #DI-120V-SABER-PD35-24WH-V2 #D1-120V-SABER-MS-WH (OCC. SENS)	UNDER CABINET	LED (BY MFR)	13VA	120V	2 FT. LED UNDERCABINET. PROVIDED WITH BUILT-IN OCCUPANCY SENSOR.	
SR	VISIONAIRE LIGHITNG #VMX-1-T3-48LC-7-4K-UNV-AM-FINISH-CLS	POLE	LED (BY MFR)	106VA	UNV	POLE SITE LIGHT. PROVIDE KW INDUSTRIES #RTSP30-9-12-KZ13-DM10 POLE. CONFIRM FINISHES WITH ARCHITECT PRIOR ORDERING.	
P	COLOR KINETICS #350-000011-49	GROUND	LED (BY MFR)	60VA	UNV	6 FT. LED LINEAR SIGN LIGHTER.	
W	VISIONAIRE LIGHITNG #VSC-1-T4-16LC-7-3K-UNV-WM-**	WALL	LED (BY MFR)	37VA	UNV	SECURITY LED WALL PACK. CONFIRM FINISH WITH ARCHITECT PRIOR ORDERING.	
WE	VISIONAIRE LIGHITNG #VSC-1-T4-16LC-7-3K-UNV-WM-**-EBPL	WALL	LED (BY MFR)	37VA	UNV	SAME AS TYPE "WE" EXCEPT WITH EMERGENCY BATTERY PACK.	

LIGHTING FIXTURE SCHEDULE NOTES:

1. ALL LIGHTING FIXTURE LENS, TRIMS, FINISHES, AND MOUNTING TYPES SHALL BE SELECTED BY ARCHITECT FROM MANUFACTURER'S OPTIONS. THE GENERAL CONTRACTOR SHALL CONFIRM ALL ITEMS WITH ARCHITECT PRIOR TO ORDERING. ** INDICATE ITEMS TO BE SELECTED BY ARCHITECT. ALL FIXTURES WITH ITEMS NOT CONFIRMED SHALL BE REPLACED AT THE GENERAL CONTRACTOR'S EXPENSE.
2. THE LIGHT FIXTURES SCHEDULED ARE THE BASIS OF DESIGN. IT IS NOT INTENDED TO LIMIT COMPETITION FROM EQUAL MANUFACTURERS. ALL BIDDERS SHALL SUBMIT THEIR PROPOSED LIGHT FIXTURES IN SUBMITTAL FORM A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW. APPROVED LIGHT FIXTURES WILL BE ISSUED IN AN ADDENDUM.

CLIENT

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DBR Project Number 180375.000

WM	RM	JG	RS	WW

REGISTRATION

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WILLIAM MEISTER 101184 LICENSED PROFESSIONAL ENGINEER 3/10/19

DRAWING HISTORY

No.	DATE	DESCRIPTION
	12-6-2018	ISSUE FOR DESIGN DEVELOPMENT
	03-12-2019	ISSUE FOR 95% CD REVIEW
	04-12-2019	95% CONSTRUCTION DOCUMENTS
	05-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

SHEET TITLE

ELECTRICAL SCHEDULES

SHEET NUMBER

E5.01

Panelboard LA1

22000 AIC Rating
X New
Existing

120/208 Wye Volt, 3 Phase, 4 Wire, 2 Section, Type 1 -Nema Rating | Mains Type: MCB | 600 A MCB, 600 A BUS (Copper), ISO. GRND. BUS | X Single, Double, Feed - Thru | Mounting: X Surface, Flush

Note	Load...	Type	Description	Wire	CB	CKT	CB	Wire	Description	Type	Load...	N...
	360 VA	R	R EQUIPMENT STORAGE 140	12	20 A	1 2	20 A	12	R EQUIPMENT STORAGE 140	R	360 VA	
	540 VA	R	R EQUIPMENT STORAGE 140	12	20 A	3 4	20 A	12	R EQUIPMENT STORAGE 140	R	360 VA	
	410 VA	Oth...	EXTERIOR WP RCPTS.	12	20 A	5 6	20 A	--	Spare	--	--	
	1228 VA	L	LIGHTING	12	20 A	7 8	20 A	--	Spare	--	--	
	728 VA	L	L Room 142	12	20 A	9 10	20 A	--	Spare	--	--	
						11 12	20 A	--	Spare	--	--	
	1590 VA	MT	O/H DOOR - MATERIAL SHOP / STORAGE 138 (3/4 HP)	12	15 A	13 14	15 A	12	O/H DOOR - MATERIAL SHOP / STORAGE 138 (3/4 HP)	MT	1590 VA	
						15 16						
	1590 VA	MT	O/H DOOR - EQUIP. SHOP 134 (3/4 HP)	12	15 A	17 18	15 A	12	O/H DOOR - EQUIP. SHOP 134 (3/4 HP)	MT	1590 VA	
						19 20						
	1590 VA	MT	O/H DOOR - EQUIP. STORAGE 140 (3/4 HP)	12	15 A	21 22	15 A	12	O/H DOOR - EQUIP. STORAGE 140 (3/4 HP)	MT	1590 VA	
						23 24						
	1590 VA	MT	O/H DOOR - EQUIP. STORAGE 140 (3/4 HP)	12	15 A	25 26	15 A	12	O/H DOOR - EQUIP. STORAGE 140 (3/4 HP)	MT	1590 VA	
						27 28						
	--	--	Space	--	--	29 30	--	--	Space	--	--	
	--	--	Space	--	--	31 32	--	--	Space	--	--	
	--	--	Space	--	--	33 34	--	--	Space	--	--	
	--	--	Space	--	--	35 36	--	--	Space	--	--	
	--	--	Spare	--	20 A	37 38						
	--	--	Spare	--	20 A	39 40	30 A	10	SPD2	SP	0 VA	
	--	--	Spare	--	20 A	41 42						
	62455 VA	Power; L; R; WH;...	PANEL LA2	4/0	225 A	43 44	250 A	250	PANEL LA3	Other; L; R; SP; ...	35224 VA	
						45 46						
						47 48						
	1435 VA	F	EF-3 (3/4 HP) EQUIP. STOR. 140	12	15 A	49 50	20 A	12	FUTURE HVLS. FAN (1.5 HP) EQUIP. STORAGE 140	F	2484 VA	
						51 52						
	1664 VA	F	EF-4 (1 HP) EQUIP. STO. 140	12	15 A	53 54	20 A	12	FUTURE HVLS. FAN (1.5 HP) EQUIP. STORAGE 140	F	2484 VA	
						55 56						
	1664 VA	F	EF-5 (1 HP) EQUIP. STO. 140	12	15 A	57 58	20 A	12	FUTURE HVLS. FAN (1.5 HP) EQUIP. STORAGE 140	F	2484 VA	
						59 60						
	--	--	Space	--	--	61 62	--	--	Space	--	--	
	--	--	Space	--	--	63 64	--	--	Space	--	--	
	--	--	Space	--	--	65 66	--	--	Space	--	--	
	--	--	Space	--	--	67 68	--	--	Space	--	--	
	--	--	Space	--	--	69 70	--	--	Space	--	--	
	--	--	Space	--	--	71 72	--	--	Space	--	--	
	--	--	Space	--	--	73 74	--	--	Space	--	--	
	--	--	Space	--	--	75 76	--	--	Space	--	--	
	--	--	Space	--	--	77 78	--	--	Space	--	--	
	--	--	Space	--	--	79 80	--	--	Space	--	--	
	--	--	Space	--	--	81 82	--	--	Space	--	--	
	--	--	Space	--	--	83 84	--	--	Space	--	--	

N.E.C. (2017)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2017)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	26760 VA	68.68%	18380 VA	210.20(a)	(L)Lighting	2244 VA	125.00%	2805 VA
220.56	(K)Kitchen					(EL)Ext. Ltg.	370 VA	125.00%	463 VA
220.60	(C)Cooling	20872 VA	100.00%	20872 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.	9000 VA	100.00%	9000 VA
220.60	(F)Fans	17681 VA	100.00%	17681 VA	220.5	(MT)Lrg. Motor	25630 VA	106.25%	27232 VA
	(M)Misc.	20305 VA	100.00%	20305 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA

Total Connected Load: 124116 VA VA = 345 A
Total Load (Diversified): 117991 VA VA = 328 A

Location of Panel: EQUIPMENT STORAGE 140

Panelboard LA2

10000 AIC Rating
X New
Existing

120/208 Wye Volt, 3 Phase, 4 Wire, 2 Section, Type 1 -Nema Rating | Mains Type: MLO | 0 A MCB, 225 A BUS (Copper), ISO. GRND. BUS | X Single, Double, Feed - Thru | Mounting: X Surface, Flush

Note	Load...	Type	Description	Wire	CB	CKT	CB	Wire	Description	Type	Load...	N...
	540 VA	R	R MEETING ROOM 126	12	20 A	1 2	20 A	12	CP-1/TS-1 JANITOR 132	M	400 VA	
	360 VA	R	R MEETING ROOM 126	12	20 A	3 4	20 A	12	R STORAGE 128	R	540 VA	
	900 VA	R	ICE MAKER R MTG. RM. 126	12	20 A	5 6	20 A	12	R MEETING ROOM 126	R	1080 VA	
	900 VA	R	REFRIG. R MTG. RM. 126	12	20 A	7 8	20 A	--	Spare	--	--	
	1000 VA	R	APPLIANCE R MTG. RM. 126	12	20 A	9 10	20 A	--	Spare	--	--	
	1000 VA	R	APPLIANCE R MTG. RM. 126	12	20 A	11 12	20 A	12	ICE MACHINE - EQUIP. SHOP 134	M	3120 VA	
	900 VA	R	APPLIANCE R MTG. RM. 126	12	20 A	13 14						
	2000 VA	M	UPS RCPT - IDF 130	12	20 A	15 16	20 A	12	R EQUIPMENT SHOP 134	R	540 VA	
						17 18	20 A	12	R EQUIPMENT SHOP 134	R	540 VA	
	720 VA	R	R EQUIPMENT SHOP 134	12	20 A	19 20	20 A	12	DEDICATED R CORRIDOR 124	R	180 VA	
	1300 VA	R	RCPTS - IDF 130	12	20 A	21 22	20 A	12	R LOBBY 102	R	360 VA	
	1000 VA	R	RCPTS - IDF 130	12	20 A	23 24	20 A	12	R JANITOR 132	R	540 VA	
	800 VA	R	IDF EQUIP. RACK - IDF 130	12	20 A	25 26	15 A	12	SF-1 (1/6 HP) SHOP / STO 138	F	528 VA	
	0 VA	Power	SECURITY PNL - IDF 130	12	20 A	27 28	20 A	12	GEN. WATER JACKET HEATER	M	4500 VA	
						29 30						
	9000 VA	WH	EWH-1 - JANITOR 132	8	35 A	31 32	20 A	12	GEN. BATTERY CHARGER	M	500 VA	
						33 34	20 A	12	GEN. ANTI-CONDENSATE	M	500 VA	
	--	--	Spare	--	20 A	35 36	20 A	12	GAS MONITOR SYSTEM SHOP...	M	150 VA	
	--	--	Spare	--	20 A	37 38						
	--	--	Spare	--	20 A	39 40	30 A	10	SPD2	SP	0 VA	
	--	--	Spare	--	20 A	41 42						
	8320 VA	M	WELDER - Space 20	8	50 A	43 44	20 A	12	EYEWASH STROBE LT- SHOP...	M	40 VA	
						45 46	60 A	6	POWER LIFT - EQUIP. SHOP 134 (5 HP)	MT	6406 VA	
	1019 VA	F	EF-1 (1/2 HP) EQUIP. SHOP 134	12	15 A	47 48						
						49 50	20 A	12	WARNING LIGHTS 134, 138, 124	L	29 VA	
	1435 VA	F	EF-2 (3/4 HP) MATERIAL SHOP SHOP STO. 138	12	15 A	51 52	20 A	12	R MEETING ROOM 126	R	720 VA	
						53 54	15 A	12	GARBAGE DISP. ROOM 126	MT	696 VA	
	2484 VA	F	HVLS-1 (1.5 HP) - EQUIP. SHOP 134	12	20 A	55 56						
						57 58	15 A	12	VEF-1 (1 HP) - SHOP 134	MT	1728 VA	
						59 60						
	3952 VA	C	ACCU-1 (OUTDOOR)	12	20 A	61 62						
						63 64	15 A	12	VEF-2 (1 HP) - SHOP 134	MT	1728 VA	
	--	--	Spare	--	20 A	65 66						
	--	--	Spare	--	20 A	67 68	20 A	--	Spare	--	--	
	--	--	Spare	--	20 A	69 70	20 A	--	Spare	--	--	
	--	--	Space	--	--	71 72	20 A	--	Spare	--	--	
	--	--	Space	--	--	73 74	20 A	--	Spare	--	--	
	--	--	Space	--	--	75 76	--	--	Space	--	--	
	--	--	Space	--	--	77 78	--	--	Space	--	--	
	--	--	Space	--	--	79 80	--	--	Space	--	--	
	--	--	Space	--	--	81 82	--	--	Space	--	--	
	--	--	Space	--	--	83 84	--	--	Space	--	--	

N.E.C. (2017)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2017)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	13920 VA	85.92%	11960 VA	210.20(a)	(L)Lighting	29 VA	125.00%	36 VA
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling	3952 VA	100.00%	3952 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.	9000 VA	100.00%	9000 VA
220.60	(F)Fans	5466 VA	100.00%	5466 VA	220.5	(MT)Lrg. Motor	10558 VA	115.17%	12160 VA
	(M)Misc.	19530 VA	100.00%	19530 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA

Total Connected Load: 62455 VA VA = 173 A
Total Load (Diversified): 62104 VA VA = 172 A

Location of Panel: EQUIPMENT SHOP 134

Panelboard LA3

10000 AIC Rating
X New
Existing

120/208 Wye Volt, 3 Phase, 4 Wire, 1 Section, Type 1 -Nema Rating | Mains Type: MLO | 0 A MCB, 250 A BUS (Copper), ISO. GRND. BUS | X Single, Double, Feed - Thru | Mounting: X Surface, Flush

Note	Load...	Type	Description	Wire	CB	CKT	CB	Wire	Description	Type	Load...	N...
	720 VA	R	R ADMIN. SUPPORT 114	12	20 A	1 2	20 A	12	R ADMIN. SUPPORT 114	R	900 VA	
	720 VA	R	R SUPERVISOR 110	12	20 A	3 4	20 A	12	R ASSIST. SUPERVISOR 108	R	720 VA	
	540 VA	R	R Room 112, 102	12	20 A	5 6	20 A	12	DED.R - SUPPLY / COPY 106	R	500 VA	
	900 VA	Oth...	R Room 116, 120, 122, 118	12	20 A	7 8	20 A	12	DED.R - SUPPLY / COPY 106	R	500 VA	
	370 VA	R	EDF-1 - CORRIDOR 112	12	20 A	9 10	20 A	12	R - SUPPLY / COPY 106	R	360 VA	
	540 VA	R	R RECEPIONIST 104	12	20 A	11 12	20 A	12	FUT. FUEL MGMT. PNL. COPY...	R	250 VA	
	540 VA	R	R RECEPIONIST 104	12	20 A	13 14	20 A	12	COPIER - SUPPLY / COPY 106	R	1200 VA	
	540 VA	R	R MATERIAL SHOP / STORAG...	12	20 A	15 16	20 A	12	R MATERIAL SHOP / STORAG...	R	540 VA	
	615 VA	R; M	R MATERIAL SHOP / STORAG...	12	20 A	17 18	20 A	12	EXTERIOR WP RCPTS.	R	360 VA	
	300 VA	R	DEDICATED R MECH./ ELECT....	12	20 A	19 20	20 A	12	MAIN ENTRY MOTOR. GATE	MT	1176 VA	
	629 VA	Oth...	EXTERIOR LIGHTING	12	20 A	21 22	20 A	12	MAIN ENTRY MOTOR. GATE	MT	1176 VA	
	1024 VA	Other	Other MATERIAL SHOP /...	12	20 A	23 24	15 A	12	FIRE SMOKE DAMPERS	M	450 VA	
	8460 VA	C	ACCU-1 (OUTDOOR)	8	40 A	25 26	15 A	12	FIRE SMOKE DAMPERS 136,...	M	250 VA	
						27 28						
						29 30	20 A	--	Spare	--	--	
						31 32	20 A	--	Spare	--	--	
	8460 VA	C	ACCU-2 (OUTDOOR)	8	40 A	33 34	20 A	--	Spare	--	--	
						35 36	20 A	--	Spare	--	--	
	2484 VA	F	FUTURE HVLS. FAN (1.5 HP) MATERIAL SHOP 138	12	20 A	37 38						
						39 40	30 A	10	SPD2	SP	0 VA	
						41 42						

N.E.C. (2017)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2017)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	10860 VA	96.04%	10430 VA	210.20(a)	(L)Lighting	259 VA	125.00%	324 VA
220.56	(K)Kitchen					(EL)Ext. Ltg.	370 VA	125.00%	463 VA
220.60	(C)Cooling	16920 VA	100.00%	16920 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.			
220.60	(F)Fans	2484 VA	100.00%	2484 VA	220.5	(MT)Lrg. Motor	2352 VA	112.50%	2646 VA
	(M)Misc.	775 VA	100.00%	775 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA

Total Connected Load: 35224 VA VA = 98 A
Total Load (Diversified): 35245 VA VA =' 98 A

Location of Panel: MATERIAL SHOP / STORAGE 138

Panelboard LAE

10000 AIC Rating
X New
Existing

120/208 Wye Volt, 3 Phase, 4 Wire, 1 Section, Type 1 -Nema Rating | Mains Type: MCB | 225 A MCB, 225 A BUS (Copper), ISO. GRND. BUS | X Single, Double, Feed - Thru | Mounting: X Surface, Flush

Note	Load...	Type	Description	Wire	CB	CKT	CB	Wire	Description	Type	Load...	N...
						1 2						
	32095 VA	R; SP; F; H;...	PANEL LWB	1/0	150 A	3 4	20 A	12	EXIT SIGNS	L	50 VA	
						5 6	20 A	12	L MEETING ROOM 126	L	936 VA	
	1246 VA	L	LIGHTING	12	20 A	7 8			L MECH./ ELECT. 136	L	1520 VA	
	943 VA	L	PARKING LOT / SIGNLIGHTER	12	20 A	9 10	40 A	8	AHU-1 - MECH./ ELECT. 136	H	11556 VA	
	1435 VA	MT	SLIDING GATE 3/4 HP)	12	20 A	11 12						
						13 14						
	1435 VA	MT	SLIDING GATE 3/4 HP)	12	20 A	15 16	40 A	8	AHU-2 - MECH./ ELECT. 136	H	11484 VA	
						17 18						
						19 20						
						21 22	--	--	Space	--	--	
	--	--	Space	--	--	23 24	--	--	Space	--	--	
	--	--	Space	--	--	25 26	--	--	Space	--	--	
	--	--	Space	--	--	27 28	--	--	Space	--	--	
	--	--	Space	--	--	29 30	20 A	--	Spare	--	--	
	--	--	Space	--	--	31 32	20 A	--	Spare	--	--	
	--	--	Space	--	--	33 34	20 A	--	Spare	--	--	
	--	--	Spare	--	20 A	35 36	20 A	--	Spare	--	--	
	--	--	Spare	--	20 A	37 38						
	--	--	Spare	--	20 A	39 40	30 A	10	SPD2	SP	0 VA	
	--	--	Spare	--	20 A	41 42						

N.E.C. (2017)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2017)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	1360 VA	100.00%	1360 VA	210.20(a)	(L)Lighting	4695 VA	125.00%	5869 VA
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating	32440 VA	100.00%	32440 VA		(WH)Wat. Htr.			
220.60	(F)Fans	300 VA	100.00%	300 VA	220.5	(MT)Lrg. Motor	23865 VA	109.54%	26142 VA
	(M)Misc.	40 VA	100.00%	40 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA

Total Connected Load: 62700 VA VA = 174 A
Total Load (Diversified): 66151 VA VA = 184 A

Location of Panel: MECH./ ELECT. 136

Panelboard LBE

10000 AIC Rating
X New
Existing

120/208 Wye Volt, 3 Phase, 4 Wire, 1 Section, Type 1 -Nema Rating | Mains Type: MCB | 400 A MCB, 400 A BUS (Copper), ISO. GRND. BUS | X Single, Double, Feed - Thru | Mounting: X Surface, Flush

Note	Load...	Type	Description	Wire	CB	CKT	CB	Wire	Description	Type	Load...	N...
						1 2						
	15000 VA	H	EUH-1 EQUIP SHOP 134	6	60 A	3 4	70 A	4	EUH-5 EQUIP STO 140	H	20000 VA	
						5 6						
	15000 VA	H	EUH-2 EQUIP SHOP 134	6	60 A	7 8	70 A	4	EUH-6 EQUIP STO 140	H	20000 VA	
						9 10						
	12500 VA	H	EUH-3 M. SHOP/STO 138	8	45 A	11 12	70 A	4	EUH-7 EQUIP STO 140	H	20000 VA	
						13 14						
	12500 VA	H	EUH-4 M. SHOP/STO 138	8	45 A	15 16						
						17 18						
						19 20	--	--	Space	--	--	
						21 22	--	--	Space	--	--	
						23 24	--	--	Space	--	--	
	--	--	Space	--	--	25 26	--	--	Space	--	--	
	--	--	Space	--	--	27 28	--	--	Space	--	--	
	--	--	Space	--	--	29 30	--	--	Space	--	--	
	--	--	Space	--	--	31 32	20 A	--	Spare	--	--	
	--	--	Space	--	--	33 34	20 A	--	Spare	--	--	
	--	--	Space	--	--	35 36	20 A	--	Spare	--	--	
	--	--	Spare	--	20 A	37 38						
	--	--	Spare	--	20 A	39 40	30 A	10	SPD2	SP	0 VA	
	--	--	Spare	--	20 A	41 42						

N.E.C. (2017)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2017)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle				210.20(a)	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating	115000 VA	100.00%	115000 VA		(WH)Wat. Htr.			
220.60	(F)Fans				220.5	(MT)Lrg. Motor			
	(M)Misc.					(SP)Sub Pnl.	0 VA	Not Computed	0 VA

Total Connected Load: 115000 VA VA = 319 A
Total Load (Diversified): 115000 VA VA = 319 A

Location of Panel: EQUIPMENT STORAGE 140

Panelboard LWB

10000 AIC Rating
X New
Existing

120/208 Wye Volt, 3 Phase, 4 Wire, 1 Section, Type 1 -Nema Rating | Mains Type: MLO | 0 A MCB, 150 A BUS (Copper), ISO. GRND. BUS | X Single, Double, Feed - Thru | Mounting: X Surface, Flush

Note	Load...	Type	Description	Wire	CB	CKT	CB	Wire	Description	Type	Load...	N...
	--	--	Spare	--	20 A	1 2	20 A	12	DEDICATED R GEN. STO. 146	R	500 VA	
	--	--	Spare	--	20 A	3 4	20 A	12	EXTERIOR WP RCPTS.	R	360 VA	
	500 VA	R	DEDICATED R HERB. RM. 144	12	20 A	5 6	--	--	Space	--	--	
	1590 VA	MT	O/H DOOR - WASH BAY 142 (3/4 HP)	12	20 A	7 8	15 A	12	O/H DOOR - WASH BAY 142 (3/4 HP)	MT	1590 VA	
						9 10						
	5616 VA	MT	PRESSURE WASHER (5 HP) GEN. STO. 146	8	50 A	11 12	15 A	12	O/H DOOR - GEN STO 146 (1/2 HP)	MT	1123 VA	
						13 14						
	9108 VA	MT	AIR COMPRESSOR HERBICIDE RM. 144	8	50 A	15 16	20 A	12	EYEWASH STROBE LT-W. BAY...	M	40 VA	
						17 18	20 A	12	EF-6 (1/10 HP) GEN STO 146	F	300 VA	
	2800 VA	H	HEAT TRACING - GEN. STO. 146	12	20 A	19 20	20 A	12	EUH-7 HERB. ROOM 144	H	3300 VA	
						21 22						
	1968 VA	MT	WTR. RECYCLING SYSTEM RS-1 (3/4 HP)	10	30 A	23 24	20 A	12	EUH-8 HERB. ROOM 144	H	3300 VA	
						25 26						
	--	--	Space	--	--	27 28	--	--	Space	--	--	
	--	--	Space	--	--	29 30	--	--	Space	--	--	
	--	--	Space	--	--	31 32	20 A	--	Spare	--	--	
	--	--	Space	--	--	33 34	20 A	--	Spare	--	--	
	--	--	Spare	--	20 A	35 36	20 A	--	Spare	--	--	
	--	--	Spare	--	20 A	37 38						
	--	--	Spare	--	20 A	39 40	30 A	10	SPD2	SP	0 VA	
	--	--	Spare	--	20 A	41 42						

N.E.C. (2017)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2017)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	1360 VA	100.00%	1360 VA	210.20(a)	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating	9400 VA	100.00%	9400 VA		(WH)Wat. Htr.			
220.60	(F)Fans	300 VA	100.00%	300 VA	220.5	(MT)Lrg. Motor	20995 VA	110.85%	23272 VA
	(M)Misc.	40 VA	100.00%	40 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA

Total Connected Load: 32095 VA VA = 89 A
Total Load (Diversified): 34372 VA VA = 95 A

Location of Panel: RECYCLE EQUIPMENT ROOM 146

FILENAME: C:\Users\jgonzalez\Documents\180375_TXDOT Rockport-MEPT19_JGONZALEZ@DBRINC.COM.rvt
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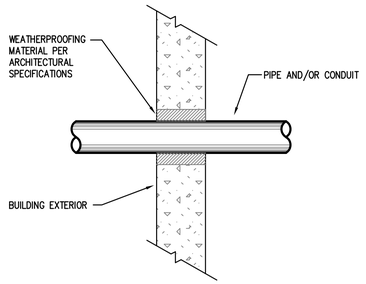
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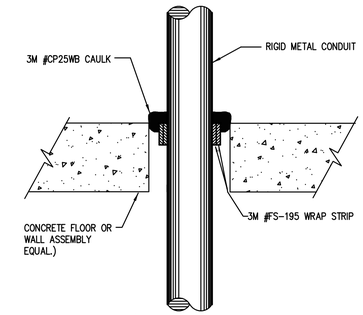
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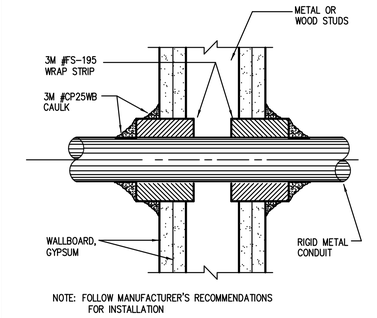
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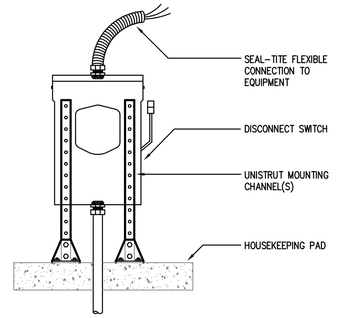
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NOT TO SCALE



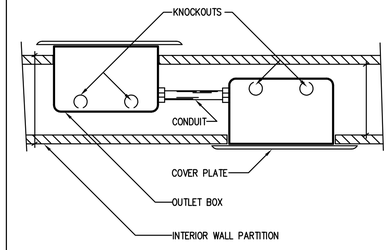
2 2, 3 AND 4 HR. PENETRATIONS FOR CONCRETE FLOOR AND WALL
NOT TO SCALE



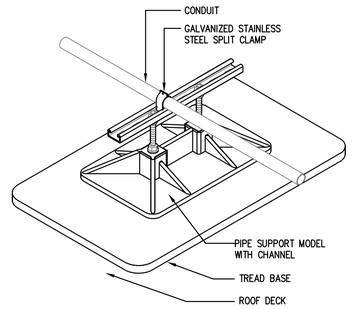
3 1 AND 2 HR. GYPSUM/WALLBOARD PIPE PENETRATION
NOT TO SCALE



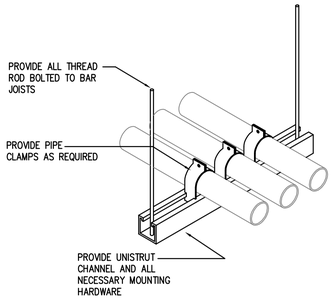
4 DISCONNECT SWITCH MOUNTING AT CONCRETE PAD
NOT TO SCALE



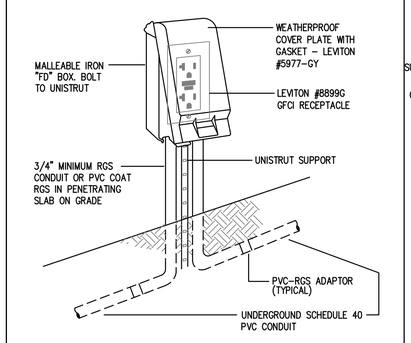
5 BACK-TO-BACK OUTLETS
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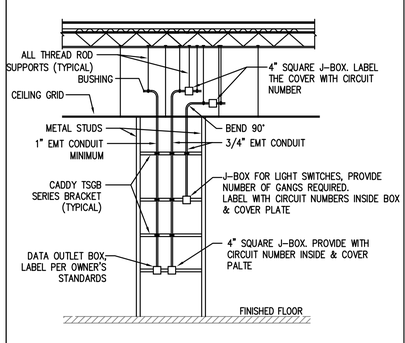
6 ROOF CONDUIT SUPPORT DETAIL
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EPC017.DWG



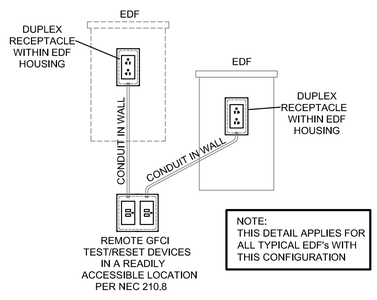
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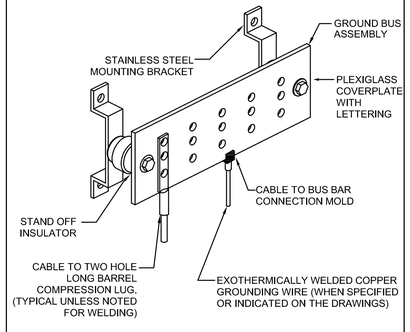
8 RECEPTACLE MOUNTING DETAIL
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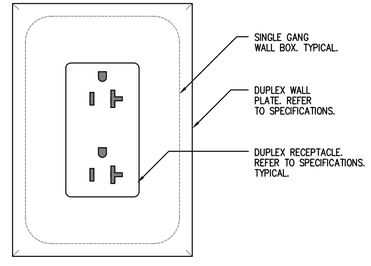
9 CONDUIT ROUGH-IN DETAIL
NOT TO SCALE



10 ELEC. DRINKING FOUNTAIN DETAIL
NOT TO SCALE



11 MAIN GROUND BAR DETAIL
NOT TO SCALE



12 TYPICAL RECEPTACLE MOUNTING DETAIL
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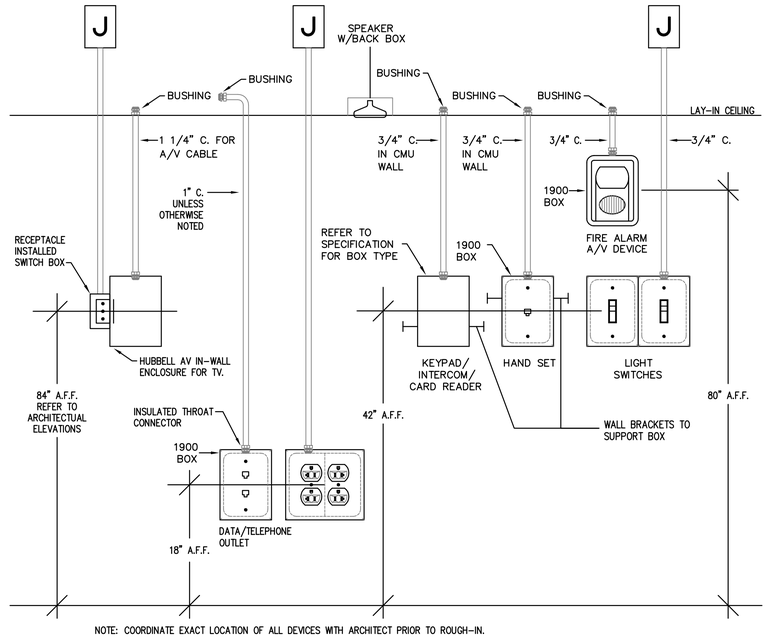
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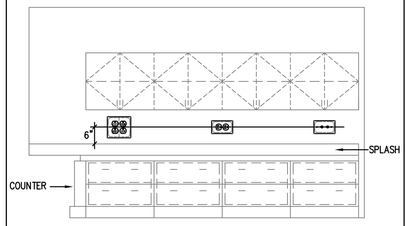
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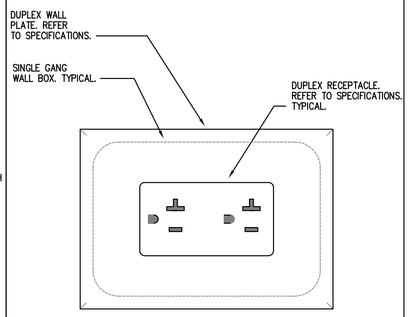
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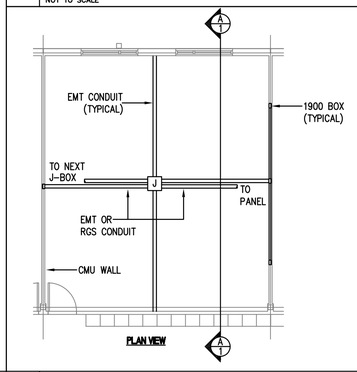
1 TYPICAL DEVICE ELEVATIONS
NOT TO SCALE

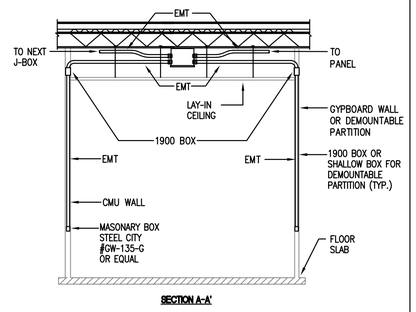


2 TYPICAL COUNTERTOP DEVICE ELEVATION
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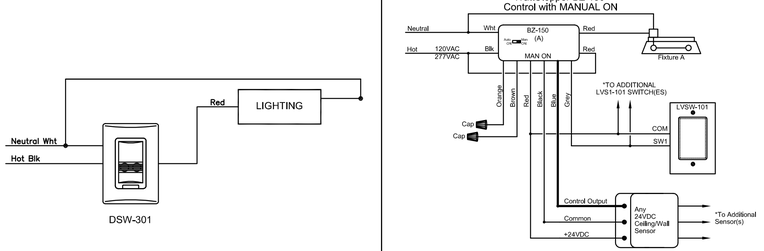


3 HORIZONTAL RECEPTACLE MOUNTING DETAIL
NOT TO SCALE





4 TYP. RACEWAY CONFIGURATION
NOT TO SCALE

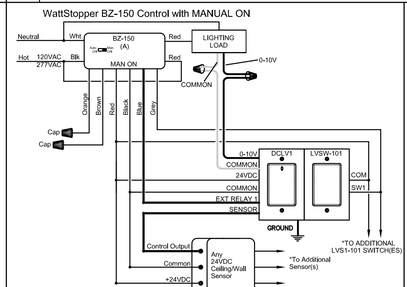


CONFIGURE SENSOR TO VACANCY MODE (MANUAL ON)

5 WATTSTOPPER - LINE VOLTAGE DUAL TECHNOLOGY OC SENSOR - NO DIM
NOT TO SCALE

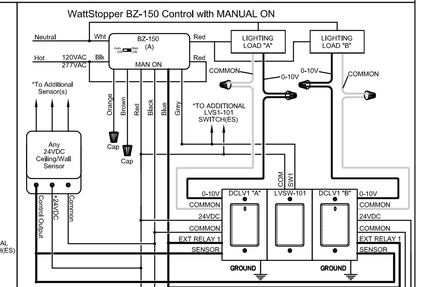
* At least 4 Sensors can be powered by the power pack.
* Sensors shall be set to Vacancy Mode.
See Sensor data sheet.

6 WATTSTOPPER POWER PACK MANUAL ON - NO DIMMING
NOT TO SCALE



* At least 4 Sensors can be powered by the power pack.
* Sensors shall be set to Vacancy Mode.
See Sensor data sheet.

7 WATTSTOPPER POWER PACK - MANUAL ON WITH SINGLE ZONE DIMMING
NOT TO SCALE



* At least 4 Sensors can be powered by the power pack.
* Sensors shall be set to Vacancy Mode.
See Sensor data sheet.

8 WATTSTOPPER POWER PACK - MANUAL ON WITH 2 ZONE DIMMING
NOT TO SCALE

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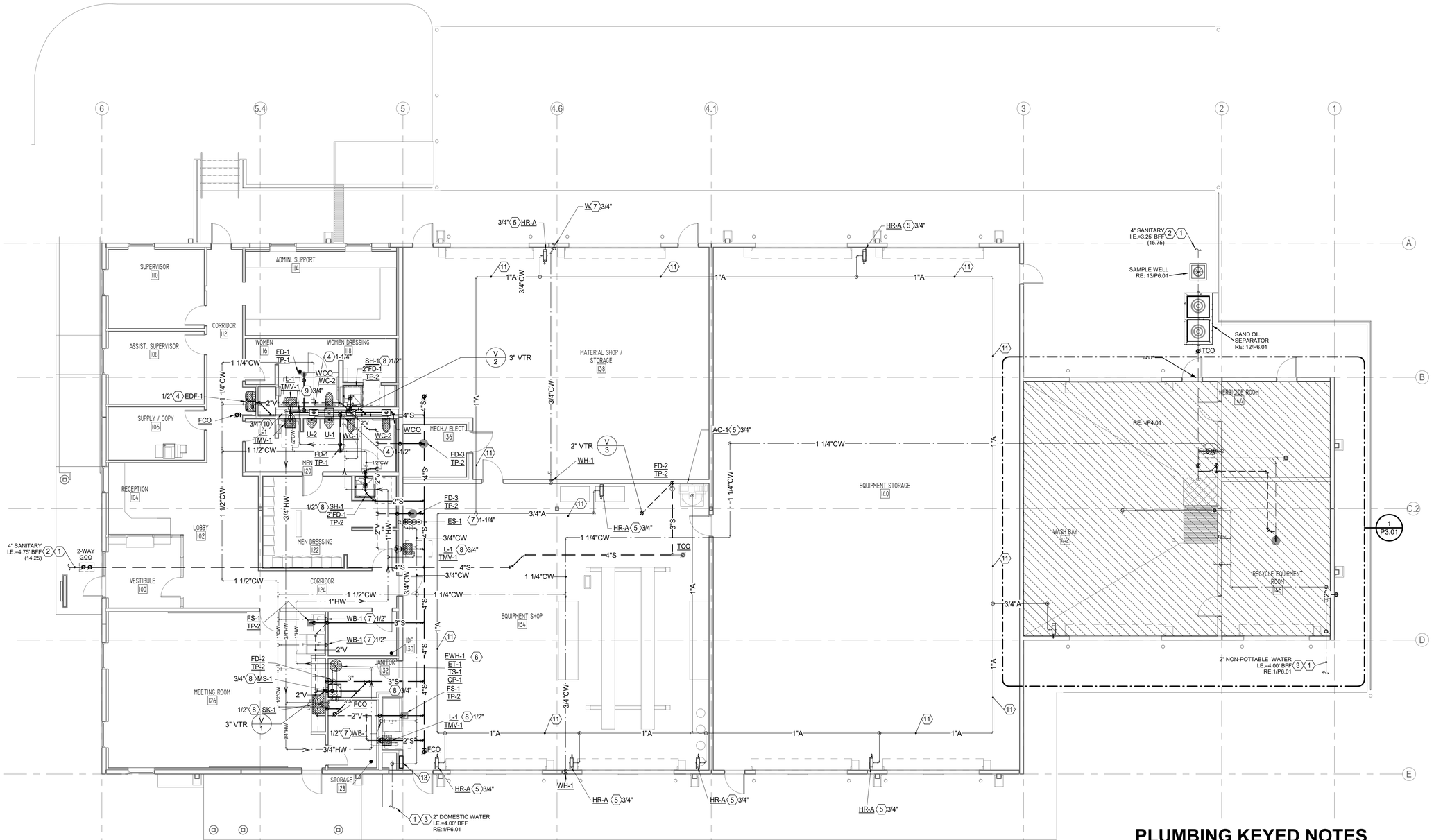
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SHEET TITLE

ELECTRICAL DETAILS

SHEET NUMBER

E6.02



1 LEVEL 1 PLUMBING PLAN
P2.01 — 1/8" = 1'-0"

PLUMBING KEYED NOTES

1. REFER TO CIVIL SITE UTILITIES PLAN FOR CONTINUATION. CONTRACTOR TO BE RESPONSIBLE FOR COORDINATION, VERIFICATION AND CONNECTION OF ALL UTILITIES TO SITE UTILITY STUB-OUTS.
2. SANITARY BUILDING DRAIN, SIZE AND I.E. AS NOTED. CONNECT TO SITE SANITARY SEWER. REFER TO SITE PLAN MEP101.
3. DOMESTIC WATER SERVICE ENTRY, SIZE AND I.E. AS NOTED. RE:DETAIL 1/P6.01.
4. COLD WATER DOWN IN WALL/CHASE TO FULL SIZE MANIFOLD. CONTRACTOR SHALL PROVIDE ALL FINAL CONNECTIONS TO PLUMBING FIXTURES.
5. 3/4" COMPRESSED AIR TO HR-A (HOSE REEL-AIR). CONTRACTOR SHALL COORDINATE WITH ARCHITECT/OWNER REPRESENTATIVE FOR EXACT LOCATION. REFER TO DETAIL NOTED. HOSE REEL TO BE PROVIDE BY OWNER INSTALLED BYPLUMBER. CONTACRTOR SHALL PROVIDE ALL FINAL CONNECTIONS.
6. ELECTRIC WATER HEATER (EWH-1) RE:11/P6.01 FOR DETAILS.
7. COLD WATER DOWN IN WALL/CHASE TO PLUMBING FIXTURE. CONTRACTOR SHALL PROVIDE ALL FINAL CONNECTIONS.
8. COLD WATER AND HOT WATER DONW IN WALL/CHASE TO PLUMBING FIXTURE. CONTRACTOR SHALL PROVIDE ALL FINAL CONNECTIONS.
9. HOT WATER LOOP DOWN IN WALL/CHASE. SIZE AS NOTED.
10. HOT WATER LOOP UP IN WALL/CHASE. SIZE AS NOTED.
11. PIPING SHALL BE ROUTED UP HIGH TIGHT TO STRUCTURE. CONTRACTOR SHALL FIELD COORDINATE TO PREVENT INTERFERING WITH ALL DISCIPLINES AND OFFSET IF NECESSARY.
12. PROVIDE 4" RAISED MAINTENANCE CONRETE PAD. ROUTE DRAIN FROM AIR COMPRESSOR TO NEAREST FD-2.
13. CONTRACTOR SHALL COORDINATE LOCATION OF ACCESS PANEL ON WALL FOR MAINTENANCE OF WATER ENTRY SHUTOFF VALVE.

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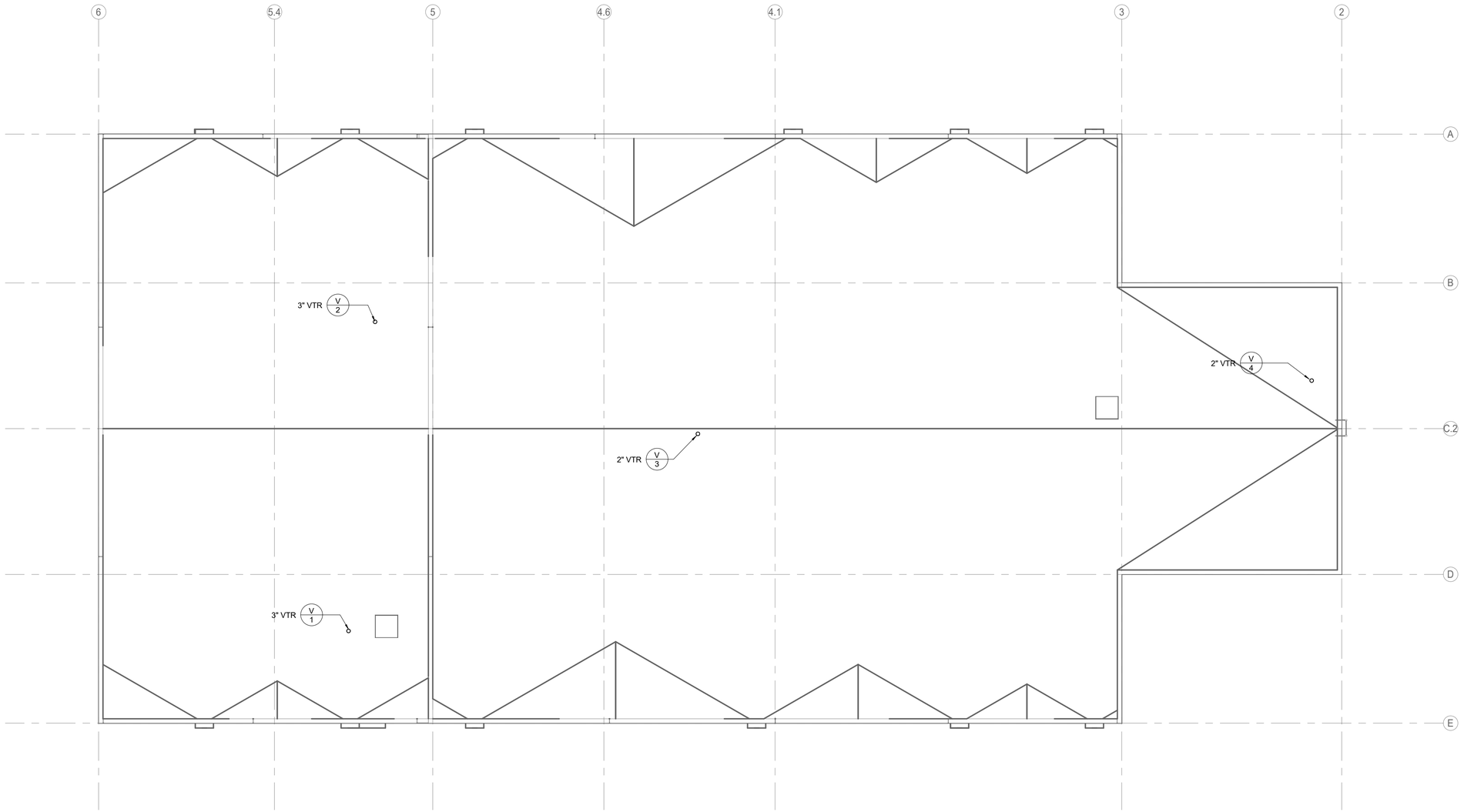
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ROCKPORT, TX
78382

PGAL PROJECT NUMBER
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SHEET TITLE
LEVEL 1 PLUMBING PLAN

SHEET NUMBER
P2.01

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1 PLUMBING ROOF PLAN

P2.02 1/8" = 1'-0"

PLOT NAME: C:\Users\rmiller\Documents\1180375_TXDOT Rockport-MEPT19_RMILLER@DBRINC.COM.rvt
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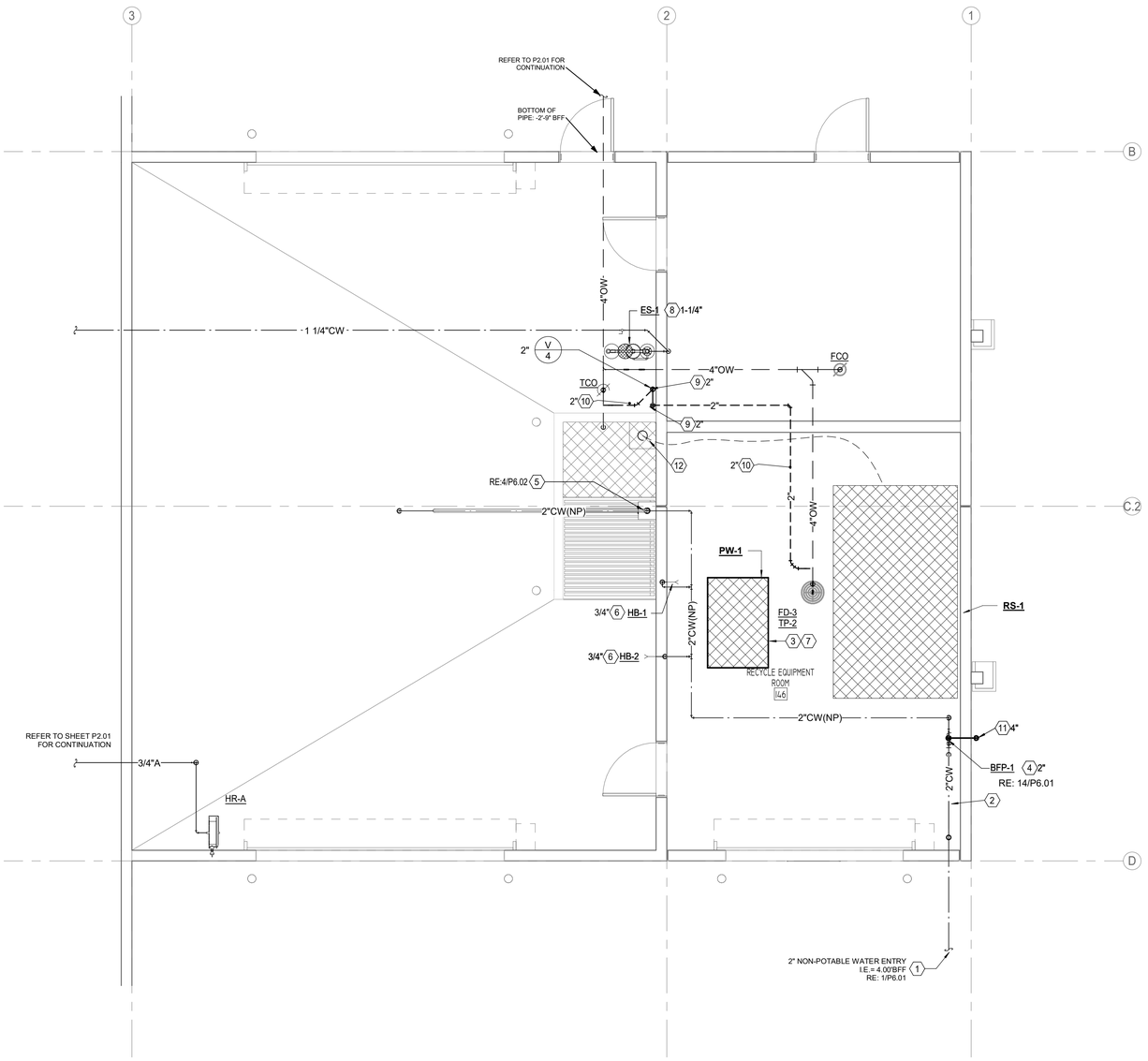
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SHEET TITLE

PLUMBING ROOF PLAN

SHEET NUMBER

P2.02



1 ENLARGED CAR WASH BAY PLUMBING PLAN

P3.01

1/4" = 1'-0"

SAND/OIL WATER RECLAIM CLOSED LOOP

SEPARATOR UNIT:	RS-1
TANK SIZE MAIN SEPARATOR: L X W X H	4' 6" X 4' X 7' 6"
OVERALL HEIGHT	8' 9'
HOLDING TANK CONSTRUCTION	3/16" STEEL PLATE
MAX. FLOW RATE (GPM)	22
WEIGHT (LBS)	6,600
CENTRIFUGAL BASIN SUMP PUMP (HP/FLA)	3/4/5.1
COALESCING PACK MATERIAL	GALVANIZED STEEL
DRAIN OFF OIL CAPACITY (GAL)	51
TOTAL OPERATING OIL CAPACITY (GAL)	150
TOTAL FLUID CAPACITY (GAL)	680
HOLDING TANK CAPACITY (GAL)	600
DUAL FILTER BAG CANISTERS	25 MICRON
SKID MOUNT DIMENSIONS	7' X 12'
SKID MOUNT CONSTRUCTION	8" CHANNEL W/ 7-GAUGE STEEL PLATE
CENTRIFUGAL FILTER PUMP (HP/FLA)	3/4/8.2
PRESSURE BLADDER CAPACITY (GAL)	85
**FULL LOAD AMPS	16.3
** OVER CURRENT PROCTECTION	30
UNIT VOLTS/PHASE/HZ	240/1/60
MANUFACTURER	TAYLOR ENVIRONMENTAL PRODUCTS, INC.
MODEL	CLLV

REMARKS:

** SINGLE POINT SERVICE CONNECTION

1. THE ABOVE SCHEDULED CLOSED LOOP RECYCLE SYSTEM SHALL BE MOUNTED ON A SKID PLATFORM.

2. THE COMPLETE SYSTEM SHALL BE REQUIRE SINGLE PHASE, 240 VOLTS AC POWER, TO A WEATHER PROOF CONTROL PANEL INSTALLED ON THE SKID BY THE MANUFACTURER.

3. THE INLET MANIFOLD SHALL BE DESIGNED TO MINIMIZE TURBULENCE AND PREVENT SHORT CYCLING.

4. SYSTEM SHALL INCLUDE A STRAINER AND FLOAT SWITCH TO PROVIDE CENTRIFUGAL SUMP PUMP PROTECTION AND CONTROL.

5. UNIT SHALL INCLUDE A CENTRIFUGAL PUMP TO DRAW WATER OUT OF THE HOLDING TANK AND INTO THE PRESSURE BLADDER. THE WATER WILL THEN PASS THROUGH THE RIGID PIPING DUAL BAG FILTER CANISTERS PRIOR TO ENTERING AN "OWNER PROVIDED" PRESSURE WASHER.

6. UNIT SHALL INCLUDE A SLUDGE PAN, DRAIN LINES AND AUTOMATIC VALVES FOR OIL AND SLUDGE REMOVAL.

7. SYSTEM SHALL INCLUDE A HOSE BIBB CONNECTION FOR SUPPLY OF WATER TO THE PRESSURE WASHER.

8. SUCTION HOSE WITH STRAINER AND FLOATS SHALL BE ROUTED DOWN INTO THE CONCRETE OIL SEPARATOR PIT AND SECURELY FASTENED TO RESIST MOVEMENT.

9. CONTRACTOR SHALL INSTALL SYSTEM ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

10. CONTRACTOR SHALL PROVIDE AND INSTALL AN OIL COLLECTION SYSTEM. SYSTEM SHALL ACCOMMODATE THE EXCHANGE OF DRUMS AND PROVIDE ACCESSABILITY TO HEAVY EQUIPMENT FOR ITS REMOVAL.

PLUMBING KEYED NOTES

1. 2" DOMESTIC (NON-POTTABLE) COLD WATER ENTRY, REFER TO CIVIL DRAWINGS FOR CONTINUATION OF UTILITY BEYOND 5' OF EXTERIOR WALL.
2. EXTEND WATER LINE ALONG BOTTOM OF ROOF STRUCTURE. INSULATE WATER LINE TO PROTECT AGAINST FREEZING.
3. EXTEND TYPE "L" VENT FROM PRESSURE WASHER TO MINIMUM 24" ABOVE ROOF OF WASH BAY ROOF. TRANSITION AS NECESSARY FROM PRESSURE WASHER. PROVIDE WEATHERPROOF VENT CAP SIZED AND PROVIDED PER MANUFACTURER RECOMMENDATIONS.
4. BACKFLOW PREVENTER LOCATED AT 42"-48"AFF, SIZE AS NOTED. TO SERVE THE TRUCKFILL STATION AND HOSE BIBS AT WASH BAY. CONTRACTOR SHALL PROVIDE ALL FINAL CONNECTIONS TO TRUCKFILL STATION.
5. EXTEND TYPE "K" COPPER HARD DRAWN 2" DOMESTIC WATER SUPPLY TO TRUCK FILL CONNECTION. PROVIDE A DIELECTRIC UNION AND BALL VALVE CONNECTION INSIDE THE WASH BAY EQUIPMENT ROOM TRANSITION TO GALVANIZED STEEL PIPE AT TRUCK FILL STAND PIPE WALL PENETRATION. PROVIDE HEAT TRACING TO THROUGH WALL PIPING WITH INSULATION AND ALUMINUM JACKET.
6. NON-POTTABLE COLD WATER DOWN TO IN WALL TO PLUMBING FIXTURE. CONTRACTOR SHALL PROVIDE ALL FINAL CONNECTIONS, SIZE AS NOTED.
7. PROVIDE A HIGH PRESSURE WASHER HOSE & HOSE REEL MOUNTED IN WASH BAY ON WALL AT 48" A.F.F. COORDINATE WITH OWNER FOR EXACT LOCATION.
8. DOMESTIC POTTABLE COLD WATER DOWN TO PLUMBING FIXTURE. CONTRACTOR SHALL PROVIDE ALL FINAL CONNECTIONS AND SIZE AS NOTED.
9. SANITARY VENT LINE UP FROM BELOW SLAB. SIZE AS NOTED.
10. HORIZONTAL VENTING UNDER SLAB.
11. CONTRACTOR SHALL ROUTE DISCHARGE DRAIN FROM BACKFLOW PREVENTER BFP-1 TO SPILL ON GRADE OUTSIDE OF BUILDING.
12. INSTALL CUT IN CORNER OF PLATE FOR SUCTION HOSE TO RS-1.

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REGISTRATION

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DRAWING HISTORY

No.	DATE	DESCRIPTION
	12-6-2018	ISSUE FOR DESIGN DEVELOPMENT
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	04-12-2019	95% CONSTRUCTION DOCUMENTS
	05-10-2019	ISSUE FOR CONSTRUCTION

PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

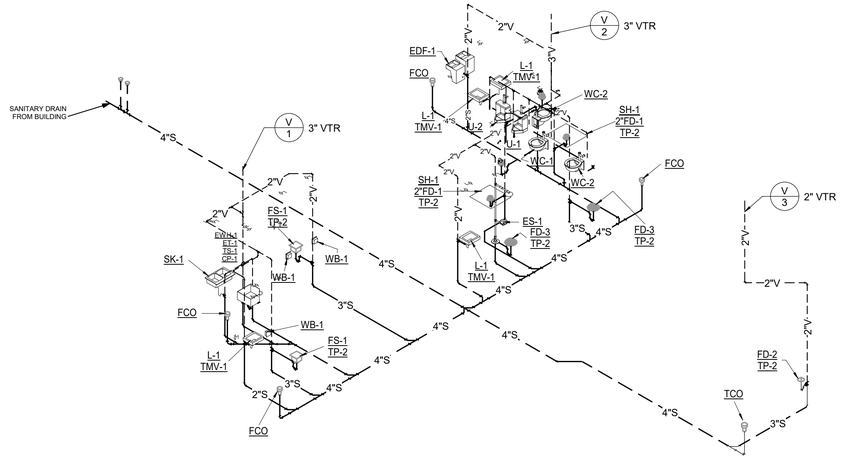
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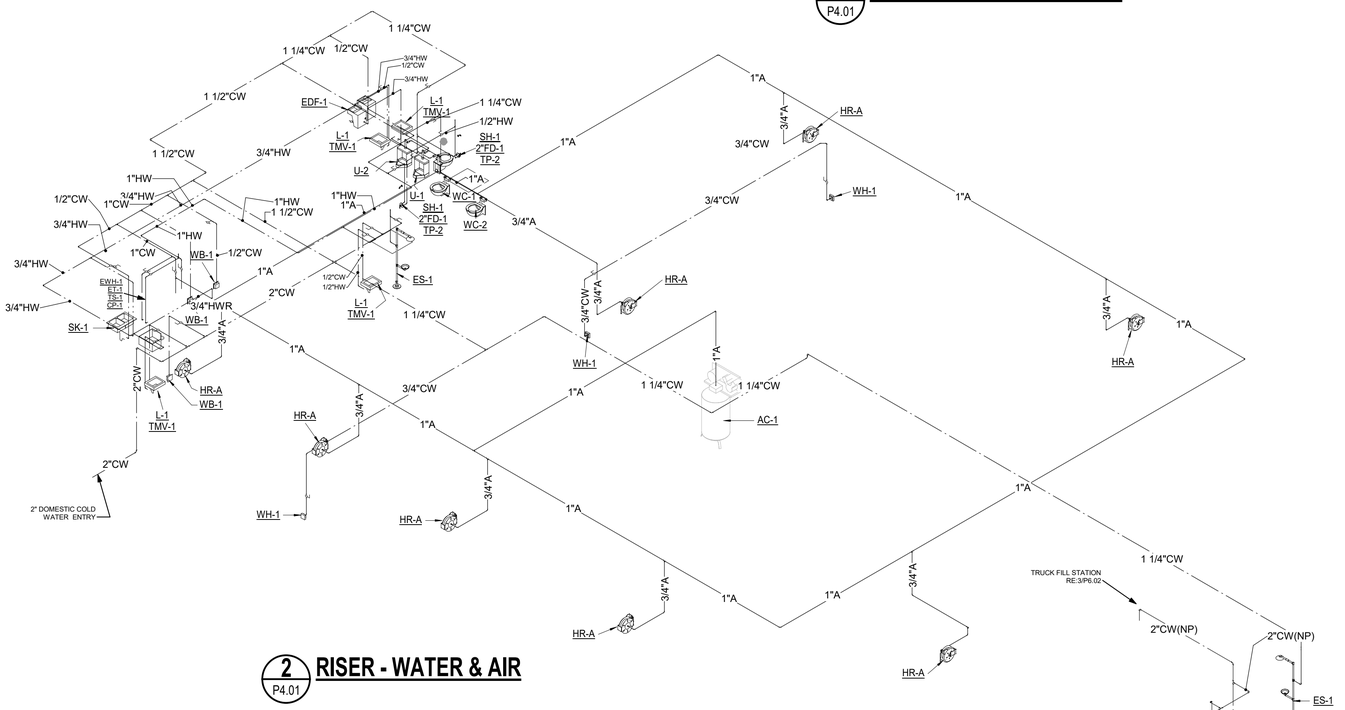
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P3.01

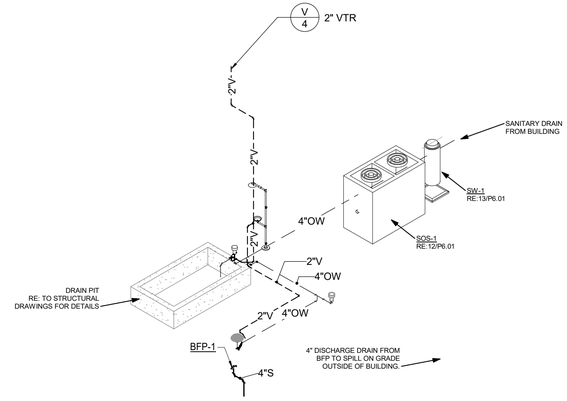
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1 P4.01 RISER - SANITARY & VENT



2 P4.01 RISER - WATER & AIR



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SHEET TITLE

PLUMBING RISERS

SHEET NUMBER

P4.01

PLUMBING FIXTURE SCHEDULE

PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
	WST & VENT		DRAIN	CW	HW	
WATER CLOSET WC-1	4"	2"	4"	1"	---	AMERICAN STANDARD No. 2257.001 "AFWALL FLOWISE" WHITE V.C. ELONGATED SIPHON JET WALL MOUNTED BOWL (1.28 GPF) WITH TOP SPUD, OLSONITE No. 95 WHITE OPEN FRONT SEAT, LESS COVER. SLOAN SOLIS No. 8111-1.28-BN-OR AUTOMATIC BATTERY-OPERATED/SOLAR SENSORED FLUSH VALVE, FREE SPINNING VANDAL RESISTANT STOP CAP. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER. REFER TO ARCHITECTS PLANS FOR EXACT MOUNTING HEIGHT
WATER CLOSET ♿ WC-2	4"	2"	4"	1"	---	SAME AS WC-1 EXCEPT WITH TRIM AND MOUNTING HEIGHTS AS REQUIRED FOR ADA USE.
URINAL U-1 ♿	2"	2"	1-1/2"	3/4"	---	AMERICAN STANDARD No.6590.125 "WASHBROOK" WHITE V.C. SIPHON JET FIXTURE WITH 3/4" TOP SPUD AND WALL HANGERS. PROVIDE SLOAN SOLIS No. 8186-0.125 AUTOMATIC BATTERY-OPERATED/SOLAR SENSORED FLUSH VALVE, No.47068-07 STAINLESS STEEL STRAINER AND ZURN OR EQUAL FLOOR MOUNTED CARRIER.
SHOWER SH-1 ♿	---	---	---	1/2"	1/2"	SPEAKMAN SM-5060-E15 SENTINEL\PRO WATER SENSE CERTIFIED (S-2272-E2 SHOWERHEAD) THERMOSTATIC/ PRESSURE BALANCE SHOWER SYSTEM COMBINATION SHOWER VALVE, 1.5 GPM SHOWER HEAD AND HAND-HELD SPRAY FURNISHED WITH DIVERTER VALVE AND ON/OFF CONTROL WITH A NON-POSITIVE SHUT-OFF, CONTROL VALVE, IN-LINE VACUUM BREAKER, 69" SQUARE LOCK STAINLESS STEEL HOSE WITH RUBBER LINER AND 42" CHROME PLATED BRASS SLIDER BAR. CONTROL VALVE SHALL BE THERMOSTATIC MIXING TYPE WITH ADJUSTABLE TEMPERATURE LIMIT STOP AT 110° AND 2" FD-1 FOR DRAINAGE. COORDINATE WITH ARCHITECT FOR MOUNTING HEIGHT, VALVE ORIENTATION AND VERIFICATION OF SHOWER BASE AND WALL MATERIAL.
LAVATORY L-1	2"	2"	1-1/4"	---	3/4"	AMERICAN STANDARD No. 355.041 "LUCERNE" WALL-HUNG WHITE VC LAVATORY WITH FRONT OVERFLOW, DRILLED FOR CONCEALED ARM AND WITH SINGLE HOLE FOR SLOAN OPTIMA SOLIS 3335101 EAF-275-SOL-CP-0.5GPM-AER-IR-IQ-10S-FCT 0.5GPM SOLAR POWERED ELECTRONIC SENSOR FAUCET WITH VANDAL PROOF WRISTBLADE HANDLES, FIXED GRID PERFORATED DRAIN STRAINER, TAILPIECE, CAST BRASS P-TRAP WITH CO, STOPS, SUPPLIES AND TMV-1. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER AND TRIM AS REQUIRED FOR HANDICAP USE. REFER TO ARCHITECT PLANS FOR MOUNTING HEIGHT.
SINK SK-1	2"	2"	1-1/2"	1/2"	1/2"	ELKAY No. DLR-3322 "LUSTERTONE" 6" DEEP DUAL BOWL STAINLESS STEEL SINK WITH DRAINS AT REAR CENTER, FOUR HOLE PUNCH, AND 8" CENTERS; FOURTH HOLE FOR SIDE SPRAYER. PROVIDE AMERICAN STANDARD 6404.141 CENTERSET FAUCET (1.5 GPM) WITH WRIST-BLADE HANDLES, SIDE SPRAY, ELKAY No. LK-35B CONICAL DRAIN STRAINER, CHROME PLATED CAST BRASS P-TRAP, AND STOPS AND SUPPLIES. PROVIDE TRUEBRO OR EQUAL INSULATION KIT, PROVIDE GD-1 AND TMV-1,
THERMAL EXPANSION TANK ET-1	---	---	---	3/4"	3/4"	AMTROL THERM-X-TROL MODEL ST-5-C, ASME THERMAL EXPANSION ABSORBERS, MAXIMUM WORKING PRESSURE 150 PSIG, TOTAL VOLUME 2.1 GALLONS.
FLOOR DRAIN FD-1	2"	---	---	---	---	ZURN No. ZN-415 CAST IRON DRAIN WITH 6" DIAMETER TYPE 'B' STRAINER AND 1/2" IPS TRAP PRIMER CONNECTION.
FLOOR DRAIN FD-2	2"	---	---	---	---	ZURN No. ZN-415 CAST IRON DRAIN WITH 7" DIAMETER TYPE 'E' STRAINER, TRAP PRIMER CONNECTION AND 4" DIAMETER FUNNEL GRATE.
FLOOR DRAIN FD-3	SEE PLAN	2"	---	---	---	ZURN No. Z-540-12 CAST IRON MEDIUM DUTY DRAIN, LESS GRATE AND SUR-SET BUCKET STRAINER. PROVIDE DEEP SEAL P-TRAP WITH TRAP PRIMER CONNECTION.
THERMOSTATIC MIXING VALVE TMV-1	---	---	---	1/2"	1/2"	POWERS No. LFe480 ADJUSTABLE POINT-OF-USE LEAD FREE THERMOSTATIC MIXING VALVE, ASSE 1070 WITH INLET CHECK STOPS TO LIMIT HOT WATER TEMPERATURE. SET FOR 90°
BACKFLOW PREVENTOR BFP-1	---	---	---	---	---	APOLLO VALVES RPLF4A REDUCED PRESSURE ZONE ASSEMBLY WITH INTERMEDIATE ATMOSPHERIC VENT. PROVIDE AIR GAP AND FULL SIZE INDIRECT DRAIN PIPED TO FLOOR DRAIN. INSTALL ON PIPE STAND AT 42" A.F.F. WITH CLEARANCES FOR SERVICE AND PIPING BRACKETED TO WALL. INSTALL WITH SHUT-OFF VALVE AND FULL SIZE STRAINER ON INLET RISER AND SHUT-OFF VALVE ON OUTLET RISER.
WALL CLEANOUT WCO	---	---	---	---	---	ZURN No. ZN-1443 DURO-COATED CAST IRON CLEANOUT TEE WITH COUNTER-SUNK GASKET, WATERTIGHT THREADED PLUG AND SQUARE SMOOTH ACCESS COVER WITH VANDAL PROOF SCREWS.
HOSE REEL HR-1	---	---	---	---	---	REELCRAFT No. 7670OLP SPRING RETRACTABLE AIR HOSE REEL, 300 PSI MAX AND 70 FEET OF 1/2" HOSE. PROVIDE QUICK CONNECT AND COORDINATE CONNECTION TYPE WITH OWNER. INSTALL PER MANUFACTURER'S RECOMMENDATION

PLUMBING FIXTURE SCHEDULE

PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
	WASTE	VENT	DRAIN	CW	HW	
ELECTRIC WATER HEATER EWH-1	---	---	---	1"	1"	A.O. SMITH CUSTOM No. DSE-50, 50 GALLON STORAGE TANK WITH 9 KW OPERATION AND 46 GPH RECOVERY AT 80° TEMPERATURE RISE, PROVIDE ASME TEMPERATURE AND PRESSURE RELIEF VALVE, AND DIAL THERMOMETER IN HW OUTLET PIPING. 208V, 3PH, WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS, VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.
EXPANSION TANK ET-1	---	---	---	3/4"	---	AMTROL THERM-X-TROL MODEL ST-5-C, ASME THERMAL EXPANSION ABSORBERS, MAXIMUM WORKING PRESSURE 150 PSIG, TOTAL VOLUME 2.1 GALLONS.
CIRCULATION PUMP CP-1	---	---	---	---	3/4"	GRUNDFOS MODEL UP15-42 F, ALL BRONZE FLANGED PUMP, 1/25 HP WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS AND FITTED WITH REMOTE HEAT SENSING AQUASTAT CONTROLLER. CONTROLLED BY ELECTRICAL CONTACTOR. RE: ELECTRICAL PLANS.
TIME SWITCH TS-1	---	---	---	---	---	INTERMATIC DIGITAL 24 HOUR TIME SWITCH WITH BATTERY BACK-UP. INSTALL ON WALL ADJACENT TO CIRCULATION PUMP. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
ELECTRIC DRINKING FOUNTAIN EDF-1 ♿	2"	2"	1-1/4"	1/2"	---	ELKAY MODEL LZWS-LRPBM28K BARRIER-FREE, LEAD FREE BI-LEVEL WATER COOLER WITH FILL BOTTLE STATION IN THE WALL, 8.0 GPH 50° F WITH 80° F AMBIENT TEMPERATURE, 370 WATTS, 5.0 FULL LOAD AMPS. WIRED FOR 120V/60/1 POWER. PROVIDE ZURN OR EQUAL FLOOR MOUNTED PLATE TYPE CARRIER AND TRAP AND SUPPLY. NOTE: CONTRACTOR SHALL COORDINATE WITH ARCHITECT BEFORE ORDERING FOR A LEFT-HAND OR RIGHT-HAND COMPRESSOR ORIENTATION.
EMERGENCY SHOWER EMERGENCY EYEWASH COMBINATION ES-1	---- ----	---- ----	---- 1-1/2"	1-1/4" 1/2"	---- ----	HAWS OR APPROVED EQUAL COMBINATION No. 8309WC SHOWER/EYEWASH WITH STAINLESS STEEL BOWL, SOFT FLOW SPRAY HEADS, PUSH TYPE STAY OPEN VALVE, WALL BRACE ANCHORED TO BACKING PLATE IN WALL, POLISHED STAINLESS STEEL HEAD WITH PULL ROD AND UNIVERSAL SIGN. VALVES SHALL BE STAY OPEN TYPE. PROVIDE 3"FD-1 (NOT CALLED OUT ON FLOOR PLANS) CENTERED DIRECTLY BELOW SHOWER HEAD. FLOOR DRAIN SHALL BE EQUIPED WITH TP-2 TRAP PRIMER IN CEILING ABOVE. PROVIDE EMERGENCY SHOWER MONITORING WITH FLOW SWITCH AND MONITORING LIGHT WITH BLUE LIGHTS AND AUDIBLE ALARM; REFER TO ELECTRICAL.
MOP SINK MS-1	3"	2"	3"	1/2"	1/2"	FIAT TERRAZO MODEL No. TSB3000 FLOOR MOUNTED 24 X 24 X 12 PRECAST TERRAZZO BASIN WITH S.S CAP. PROVIDE CHICAGO No. 897-CCP WALL MOUNTED FAUCET WITH TOP BRACE, VACUUM BREAKER, PAIL HOOK, STERN WILLIAMS No. T-40 MOP BRACKET, STERN WILLIAMS No. T-35 BRACKET AND HOSE.
WALL HYDRANT WH-1	----	----	----	3/4"	----	ZURN No. Z-1300 RECESSED NON-FREEZE BRONZE WALL BOX, ANTI-SIPHON HYDRANT, INTEGRAL BACKFLOW PREVENTER, AND WITH LOOSE KEY OPERATOR & POLISHED NICKEL BRONZE LOCKING COVER. INSTALL WITH FACE FLUSH & SQUARE TO FINISHED WALL. SECURE WITH WALL CLAMP & SETSCREW. PROVIDE EXTENSION AS REQUIRED TO PLACE VALVE SEAT IN HEATED ROOM SPACE. MOUNT AT 18" A.F.F.
HOSE BIBB HB-1 UTILITY AREA	---	---	---	3/4"	---	CHICAGO 952-12CP CHROME PLATED WALL MOUNTED FAUCET WITH VACUUM BREAKER AND TEE HANDLE. INSTALL AT MINIMUM 18" AFF.
HOSE BIBB HB-2	---	---	---	3/4"	---	CHICAGO 952-12CP CHROME PLATED WALL MOUNTED FAUCET WITH VACUUM BREAKER AND TEE HANDLE. INSTALL AT MINIMUM 12" AFF.
FLOOR SINK FS-1	SEE PLAN	2"	SEE PLAN	---	---	ZURN No.ZN-1901-2-25-K, 12" SQUARE, 8" DEEP CAST IRON DRAIN WITH ENAMELED INTERIOR, SEDIMENT BUCKET STRAINER AND SECURED 1/2 ACID RESISTANT EPOXY NICKEL BRONZE GRATE, COATING AND PROSET TRAP GUARD.
WALL BOX WB-1	---	---	---	1/2"	---	GUY GRAY No. BIM-875 WITH 1/2" x 1/4" O.D. TUBE, CHROME PLATED FIXTURE SUPPLY STOP. LEAVE 60" COIL OF 1/4" O.D. TYPE "K" SOFT COPPER FOR EQUIPMENT CONNECTION. FOR FREE STANDING REFRIGERATOR WITH ICE MAKER: INSTALL BOX AT 54" A.F.F. FOR UNDER COUNTER REFRIGERATOR ICE MAKER: INSTALL BOX AT 18" A.F.F. FOR COFFEE MACHINE: INSTALL BOX AT 24" A.F.F. BELOW COUNTER OR ABOVE COUNTER BACKSPLASH; COORDINATE WITH ARCHITECT FOR EXACT LOCATION. WHEN ICE/COFFE MAKER PROVIDE WITH CUNO No. AP305 FILTER BRACKETED TO WALL AND WATTS SD-3 IN-LINE BACKFLOW PREVENTER
GARBAGE DISPOSAL GD-1	2"	---	1-1/2"	---	---	IN-SINK-ERATOR BADGER SERIES No. 5 FOOD WASTE DISPOSER. 1/2 HP MOTOR AND 120/60/1 POWER.
TRAP PRIMER TP-1 RESTROOMS	----	----	1/2"	----	----	PROVIDE SLOAN No. V8F-72-A1 FLUSH VALVE VACUUM BREAKER TRAP REFILL SUPPLY. AFFIX UNIT TO WATER CLOSET NEAREST TO THE FLOOR DRAIN SUPPLIED. ALL EXPOSED TO BE CHROME PLATED; CONCEALED DRAIN TUBING SHALL BE 1/2" TYPE "K" SOFT COPPER.
TRAP PRIMER TP-2	----	----	----	1/2"	----	PRECISION PLUMBING PRODUCTS, PART NUMBER: LTP-1500 TAIL PIECE TRAP PRIMING ASSEMBLY. CHROME PLATED SCUTCHEONS FOR TUBE AND MAKE UP WATER. INSTALL CONCEALED IN ACCESSIBLE LOCATION,
FLOOR CLEANOUT FCO	SEE PLAN	---	---	---	---	ZURN No. ZN-1402 CAST IRON HEAVY DUTY CLEANOUT WITH COUNTER-SUNK PLUG AND ROUND SCORIATED TOP FOR GENERAL PURPOSE AREAS. PROVIDE VARIATION AS REQUIRED FOR FLOOR FINISH WHERE INSTALLED. SEE ARCHITECT DWG'S FOR FLOOR TYPES.
TRAFFIC CLEANOUT TCO	---	---	---	---	---	ZURN No. ZN-1402 CAST IRON HEAVY DUTY CLEANOUT WITH COUNTER-SUNK PLUG AND ROUND SCORIATED TOP FOR GENERAL PURPOSE AREAS.
GRADE CLEANOUT GCO	SEE PLAN	---	---	---	---	ZURN No. Z-1402 DURA-COATED CAST IRON CLEANOUT WITH WATERTIGHT COUNTER-SUNK PLUG AND SCORIATED SECURED TOP WITH FRAME. INSTALL IN 18"x18"x6" THICK CONCRETE PAD.

GENERAL NOTES - PLUMBING FIXTURES

1. CONTRACTOR TO FIELD VERIFY ELEVATIONS AND DIMENSIONS OF FINISHED FLOORS AND WALLS THROUGH ALL DRAINS, ROUGH-INS AND CARRIERS IN ACCORDANCE WITH PROPOSED ELEVATIONS AND FINISHED SURFACES.
2. MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG OR COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION OF ROUGH-IN WORK.
3. FOR ALL FIXTURES AND EQUIPMENT WITH ASSOCIATED TRIM OR COMPONENT ACCESSORIES PROVIDED UNDER SEPARATE DIVISIONS AND REQUIRING PLUMBING CONNECTIONS; THIS CONTRACTOR SHALL FIELD COORDINATE EXACT REQUIREMENTS OF, MAKE PROVISIONS FOR, AND SUPPLY ALL MATERIALS AND LABOR FOR MAKING FINAL CONNECTIONS.
4. CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF EQUIPMENT TO BE SUPPLIED FOR FINAL COORDINATION OF ALL ROUGH-IN OPENINGS BEFORE BEGINNING WORK.
5. ALL FIXTURE AND EQUIPMENT STUB-OUTS SHALL BE PROVIDED WITH A STOP VALVE. ALL FIXTURE STOPS SHALL BE SOLID BRASS, LOOSE KEY OPERATED, CHROME PLATED (WHERE EXPOSED), AND FITTED TIGHT TO CHROME PLATED BRASS WALL ESCUTCHEON PLATES. SUPPLY RISERS SHALL BE BRAIDED STAINLESS STEEL FLEXIBLE CONNECTORS.
6. ALL P-TRAPS WITHIN THE BUILDING, ABOVE GRADE AND EXPOSED TO INSPECTION SHALL BE C.P. ADJUSTABLE, CAST BRASS WITH CLEANOUT PLUG. PROVIDE CAST BRASS SLIP NUTS AND WASHERS, 17 GAGE SEAMLESS TUBULAR BRASS DRAIN TO WALL AND WALL FLANGE.
   PROVIDE McGUIRE No. 8872C, 1-1/4" P-TRAP FOR ALL LAVATORIES AND SIMILAR FIXTURES.
   PROVIDE McGUIRE No. 8912C, 1-1/2" P-TRAP FOR ALL SINKS AND SIMILAR FIXTURES.
7. PROVIDE DEEP SEAL P-TRAP FOR ALL DRAINS OF INFREQUENT USE OR REQUIRING TRAP PRIMER.
8. ALL ROUGH IN OPENINGS SHALL BE FITTED WITH CHROME PLATED, WROUGHT BRASS DEEP BELL OR BOX ESCUTCHEON PLATES FITTED TIGHT TO THE PIPE AND FLUSH TO THE WALL. PLATED STEEL ESCUTCHEON PLATES ARE NOT ACCEPTABLE.
9. ALL EXPOSED BRASS SHALL BE CHROME PLATED.
10. ALL HANDICAPPED ACCESSIBLE FIXTURES INDICATED WITH ♿ SHALL BE PROVIDED OF APPROVED TYPES AND WITH REQUIRED CONTROLS AND INSTALLED TO HEIGHTS AND CLEARANCES, AS PRESCRIBED BY AMERICANS WITH DISABILITIES ACT (ADA). FIXTURES SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL ACCESSIBILITY CODE REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED MOUNTING HEIGHTS AND SPECIFIED CLEARANCE REQUIREMENTS. PROVIDE ONLY FIXTURES WITH DEPTHS AT MAXIMUM PERMITTED AND AVAILABLE FOR INTENDED FIXTURE USE.
11. ALL LAVATORY AND SINK PIPING WHERE EXPOSED SHALL BE INSULATED. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO PROVIDE MINIMUM CLEARANCES. REFER TO SPECIFICATIONS SECTION 22 40 00.
12. ALL SINKS FOR HANDICAPPED USE SHALL BE STAMPED WITH DRAIN OUTLET AT REAR OF BOWL.
13. PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS FOR WATER SAVING PERFORMANCE. LAVATORY AND SINK FAUCETS SHALL INCLUDE 0.5 GPM FLOW CONTROL.
14. ORIENT ADA WATER CLOSET FLUSH VALVE WITH OPERATOR ON WIDE SIDE OF ENCLOSURE.
15. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE LATEX CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
16. FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF UNIFORMLY SLOPED FLOOR. CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO INSURE FLOORS ARE SLOPED UNIFORMLY ACROSS ENTIRE TOILET ROOMS OR OVER AS WIDE AN AREA AS PRACTICAL FOR OPEN AREA FLOOR DRAINS. CONVEX FLOOR SLOPE IN THE IMMEDIATE VICINITY OF THE FLOOR DRAIN IS NOT ACCEPTABLE.

PLUMBING PIPE MATERIALS SCHEDULE

PIPING SYSTEM	PIPING MATERIAL
SANITARY DRAIN AND VENTS INSIDE BUILDING BELOW GRADE	SCHEDULE 40 PVC
SANITARY DRAIN AND VENTS INSIDE BUILDING ABOVE GRADE	HUBLESS CAST IRON
DOMESTIC HOT & COLD WATER	COPPER, TYPE "K" HARD DRAWN
DOMESTIC WATER BELOW FLOOR	COPPER, TYPE "K" SOFT ANNEALED
AIR	STEEL SCHEDULE 40, GALVANIZED

SHOCK ARRESTOR SCHEDULE

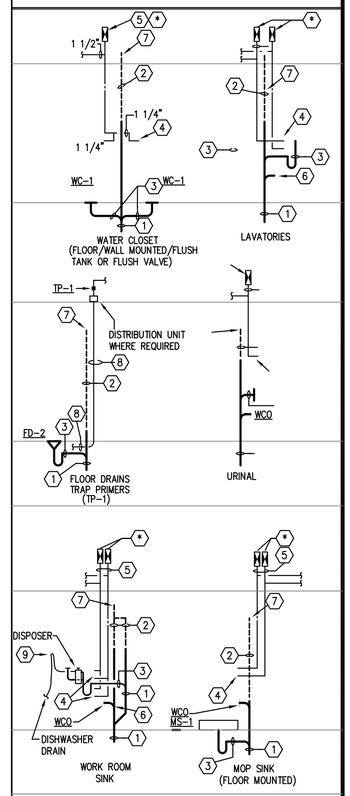
(*) P.D.I. SYMBOL	FIXTURE UNITS	SIZE
(A)	1-11	1/2" NPT
(B)	12-32	3/4" NPT
(C)	33-60	1" NPT

NOTE: PROVIDE ACCESS DOOR/PANEL FOR ALL HAMMER ARRESTOR. HAMMER ARRESTORS SHALL BE ZURN MODEL Z1700 OR EQUAL.

PIPING RISER DIAGRAMS ILLUSTRATE BELLOWS FOR FIXTURE WATER PIPE OPENINGS. SHOCK ARRESTORS, WHERE USED, SHALL BE SIZED AS NOTED IN PLUMBING RISER DETAILS ON THIS SHEET OR PER PLUMBING CODE REQUIREMENTS, WHICHEVER PLACES THE MOST STRINGENT REQUIREMENT.

SHOCK ARRESTORS SHALL HAVE LIFETIME WARRANTY AND SHALL BE CERTIFIED BY THE MANUFACTURER TO BE SUITABLE FOR INSTALLATION, CONTRACTOR SHALL COORDINATE ACCESS PANELS LOCATION WITH ARCHITECT.

PLUMBING RISER DETAILS



KEYED NOTES - RISER DIAGRAM DETAILS:

(SEE PLUMBING FIXTURE SCHEDULE ON SHEET P3.01)

1. REFER TO PLUMBING FIXTURE SCHEDULE FOR SOIL OR WASTE ROUGH-IN PIPE SIZE. MINIMUM SOIL OR WASTE DRAIN LINE SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
2. REFER TO PLUMBING FIXTURE SCHEDULE FOR SANITARY VENT ROUGH-IN PIPE SIZE. MINIMUM SANITARY VENT BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE
3. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE DRAIN ROUGH-IN PIPE SIZE. MINIMUM FIXTURE DRAIN AND TRAP SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE
4. REFER TO PLUMBING FIXTURE SCHEDULE FOR WATER PIPING ROUGH-IN PIPE SIZE. MINIMUM WATER SUPPLY BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
5. (*) SHOCK ARRESTOR INLET; REFER TO SHOCK ARRESTOR SCHEDULE FOR SIZE. LOCATION SHOWN HERE FOR INDIVIDUAL FIXTURE WILL VARY WHERE INCLUDED AS PART OF PLUMBING CHASE BATTERY OF PIPING. REFER TO RISER DIAGRAMS FOR BATTERY LOCATIONS. ARRANGE ALL WATER LINES TO GRAVITY DRAIN.
6. WALL CLEANOUTS SHALL BE PROVIDED AT ALL END OF BATTERY OR END OF BRANCH LINE FIXTURES AND WHERE REQUIRED BY PLUMBING CODE OFFICIALS TO ASSURE COMPLETE ACCESS TO ALL PORTIONS OF DRAIN.
7. SANITARY VENT PIPES SHALL CONTINUE TO CEILING OR HEADER TOGETHER AT MINIMUM 42" ABOVE FINISHED FLOOR.
8. TRAP REFULL LINE; SEE PLUMBING DETAILS SHEET. EXTEND AND CONNECT TO FLOOR DRAIN TRAP AS SHOWN.
9. AIR GAP FITTING; PROVIDE WHERE REQUIRED BY CODE.

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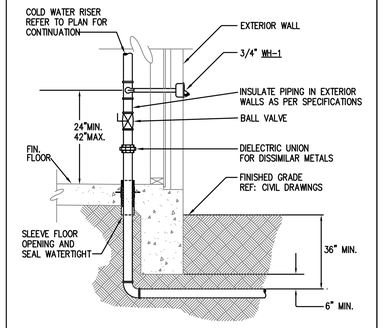
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SHEET TITLE

PLUMBING SCHEDULES

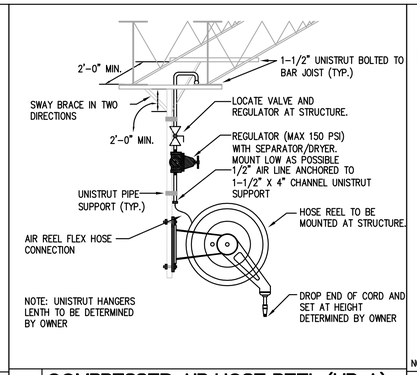
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P5.01



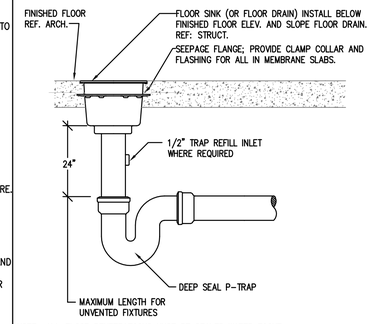
1 WATER PIPE ENTRY DETAIL

NOT TO SCALE PWR100



2 COMPRESSED AIR HOSE REEL (HR-A)

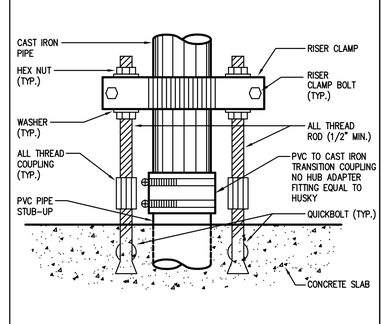
NOT TO SCALE



NOTE: ALL FLOOR PENETRATIONS MUST BE SEALED WATER TIGHT.

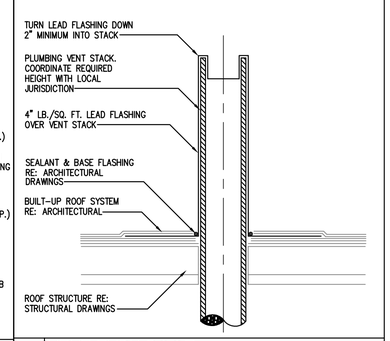
3 FLOOR DRAIN DETAIL

NOT TO SCALE PPWD100



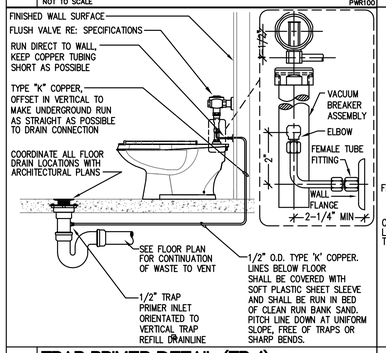
4 PVC TO CAST-IRON SUPPORT

NOT TO SCALE



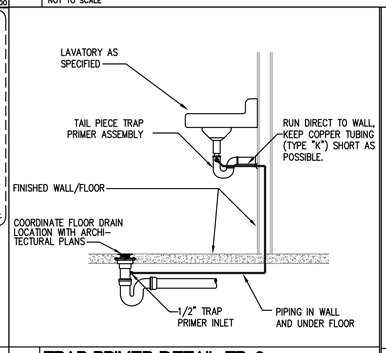
5 VENT THRU ROOF

NOT TO SCALE NOT TO SCALE PPWV103



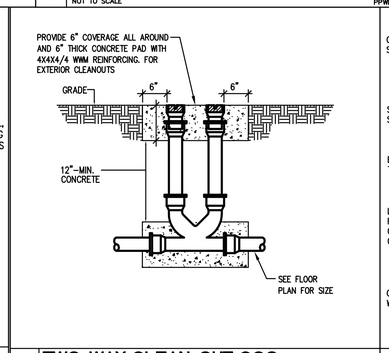
6 TRAP PRIMER DETAIL (TP-1)

NOT TO SCALE PPTP102



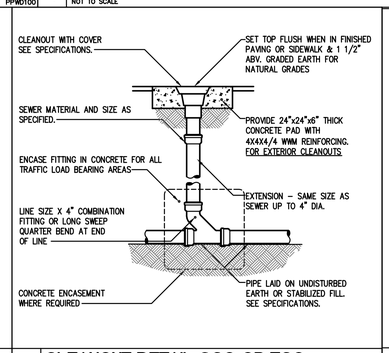
7 TRAP PRIMER DETAIL TP-2

NOT TO SCALE PPTP101



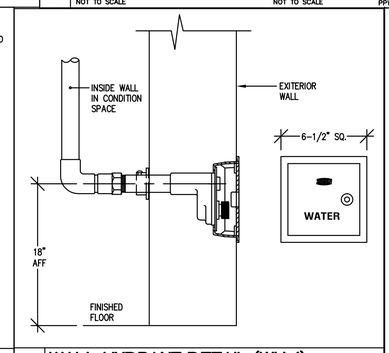
8 TWO-WAY CLEAN-OUT GCO

NOT TO SCALE



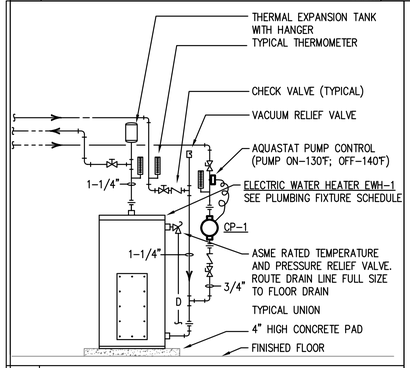
9 CLEANOUT DETAIL GCO OR FCO

NOT TO SCALE



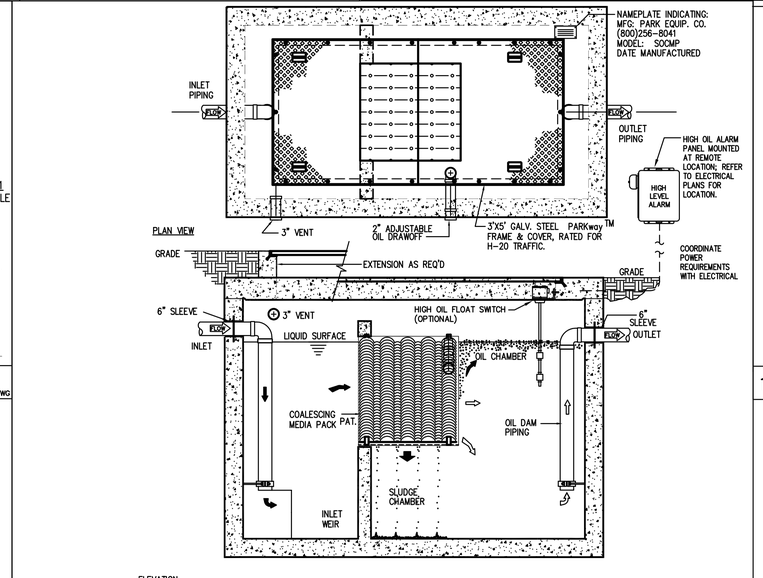
10 WALL HYDRANT DETAIL (WH-1)

NOT TO SCALE



11 ELECTRIC WATER HEATER DETAIL

NOT TO SCALE PWHE307.DWG



SPECIFICATIONS: ELEVATION

CONCRETE: CLASS 1 CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH. GROSS EMPTY WEIGHT OF APPROXIMATELY 10,000 POUNDS.

REINFORCEMENT: GRADE 60 REINFORCED WITH STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.

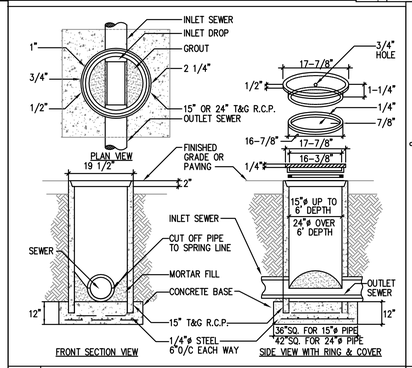
C.I. CASTINGS: MANHOLE FRAMES, COVERS, OR GATES ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48-76 CLASS 35. MANHOLE SHALL HAVE 24" INSIDE DIAMETER AND BE TRAFFIC DUTY.

ENGINEERING DATA: INTERCEPTOR IS STRUCTURALLY AND HYDRAULICALLY ENGINEERED CONFORMING TO UNIFORM PLUMBING CODE. LIQUID CAPACITY IS 750 GALLONS. RECOMMENDED FOR FLOW RATES UP TO 150 GALLONS PER MINUTE.

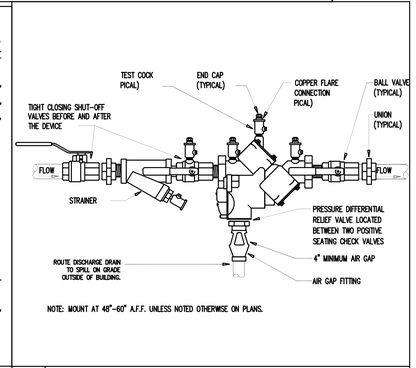
SITE NOTES: FIELD EXCAVATION AND PREPARATION SHALL BE COMPLETED PRIOR TO DELIVERY OF INTERCEPTOR. USE DIMENSIONAL DATA AS SHOWN.

12 SAND-OIL SEPARATOR DETAIL (SOS-1) (750 GAL.)

NOT TO SCALE



13 SAMPLE WELL DETAIL SW-1



14 BACKFLOW PREVENTOR DETAIL

NOT TO SCALE

SAND OIL SEPARATOR SCHEDULE

CALCULATIONS

01 PIT DRAINS x 8 DFU x 0.25 USAGE FACTOR x 3 GPM/DFU = 6.0 GPM
04 FLOOR DRAINS x 6 DFU x 0.25 USAGE FACTOR x 3 GPM/DFU = 18.0 GPM

TOTAL FLOWRATE = 24.0 GPM

PLAN MARK	MAKE & MODEL NO.	DESCRIPTION
SOS-1 SAND/OIL SEPARATOR	PARK EQUIPMENT COMPANY SOCMP-750 WITH GAS TIGHT COVERS	750 US GAL LIQUID CAPACITY; 375 GAL OIL CAPACITY; 19,500 LBS EMPTY WEIGHT; 7'-10" LONG x 4'-4" WIDE x 4'-6" DEEP; INLET FL1= 3'-3"; OUTLET FL2= 3'-0"; 50 GPM FLOW RATE
SW-1 SAMPLING WELL	PARK EQUIPMENT COMPANY SWB-156 WITH GAS TIGHT COVERS	PRECAST CONCRETE SAMPLING WELL WITH HEAVY DUTY CAST IRON FRAME AND COVER. PIPE SIZE IS 4".

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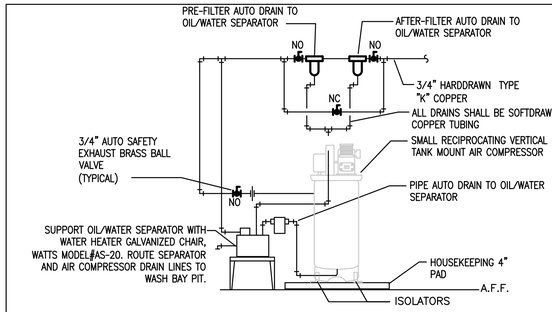
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SHEET TITLE

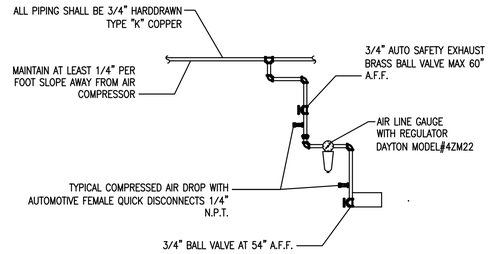
PLUMBING DETAILS

SHEET NUMBER

P6.01



1 **COMPRESSED AIR SYSTEM**
NOT TO SCALE



2 **AIR DROP WITH QUICK DISCONNECT**
NOT TO SCALE

AIR COMPRESSOR SCHEDULE

MARK	MANUFACTURER, MODEL/SIZE	TANK SIZE (GALLONS)	TANK CONFIGURATION	MAX. HP	CAPACITY (CFM) @175 PSI	RPM	OUTLET SIZE	VOLT/HZ/PH	No. STAGES	MAX. PSI RATING	RATED FLOW SCFM	FILTRATION RATING (MICRONS)
COMP	INGERSOLL-RAND MODEL# 2475N7.5P	80	VERTICAL	7.5	27.0	825	3/4" NPT	208/60/3	2	175	N/A	N/A
REG/GAUGE	INGERSOLL-RAND MODEL# R27241-600, WITH GAUGE	N/A	N/A	N/A	N/A	N/A	1/2" NPT	N/A	N/A	200	150	N/A
SEP	INGERSOLL-RAND MODEL# PS-060	1	N/A	N/A	N/A	N/A	3/4" NPT	N/A	N/A	N/A	60	N/A
P-FILTER	INGERSOLL-RAND MODEL# GP-123	N/A	N/A	N/A	N/A	N/A	3/4" NPT	N/A	N/A	N/A	123@100 PSI	1
A-FILTER	INGERSOLL-RAND MODEL# HE-123	N/A	N/A	N/A	N/A	N/A	3/4" NPT	N/A	N/A	N/A	123@100 PSI	0.01

REMARKS:

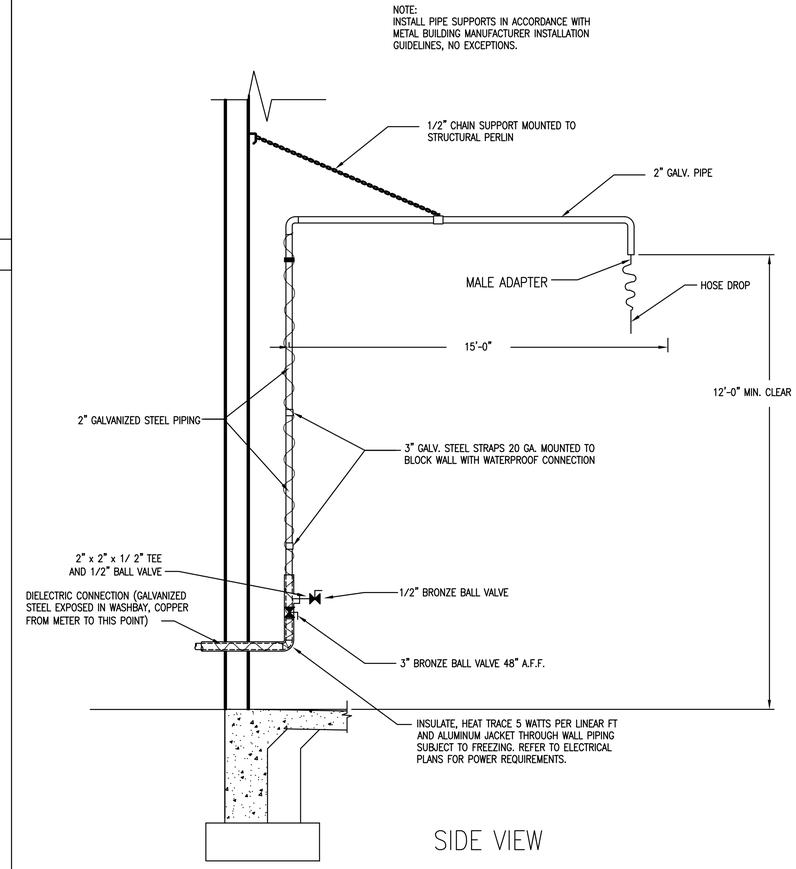
1. BOND COPPER COMPRESSED AIR PIPING WITH No. 8 AMERICAN WIRE GAUGE WITH COPPER PIPE CLAMPS TO NEAREST ABOVE SLAB DOMESTIC WATER PIPING.
2. AIR COMPRESSOR SHALL INCLUDE A FACTORY MOUNTED MOTOR STARTER, ADJUSTABLE PRESSURE SWITCH, DUAL CONTROL CENTRIFUGAL UNLOADER, OIL PRESSURE SWITCH, AIR COOLED AFTERCOOLER AND AUTOMATIC RECIEVER TANK DRAIN.
3. AIR COMPPRESSOR PUMP SHALL BE 100% CAST IRON RATED FOR 15,000 HOURS.
4. START UP KIT SHALL BE INSTALLED AND PROVIDED GIVING THE CAPABILITY OF MAINTENANCE FOR ONE YEAR.
5. AIR COMPRESSOR SHALL HAVE A TWO YEAR PUMP WARRANTY AND FIVE YEAR RECIEVER TANK WARRANTY.
6. AUTO DRAIN RECIEVER TANK DRAIN VALVE AND AUTO DRAIN COMPRESSED AIR FILTERS SHALL DRAIN TO OIL/WATER SEPARATOR.
7. RIGID MOUNT OIL/WATER SEPARATOR ON GALVANIZED METAL CHAIR. OIL/WATER SEPARATOR DRAIN SHALL BE 18 INCHES ABOVE FINISHED FLOOR.
8. COMPRESSED AIR PIPING SHALL BE 3/4" TYPE "K" COPPER, PROVIDE A STAINLESS STEEL BRAIDED HOSE WITH COMPRESSION FITTINGS.
9. PROVIDE ONE SPARE REPLACEABLE FILTER ELEMENT WITH EACH COMPRESSED AIR FILTER.

PRESSURE WASHER, 5HP, DIESEL, 392,000 BTU/HR ELECTRICAL: 208V/1PH/60, 31 FLA, 50 AMP GFCI RECEPTACLE

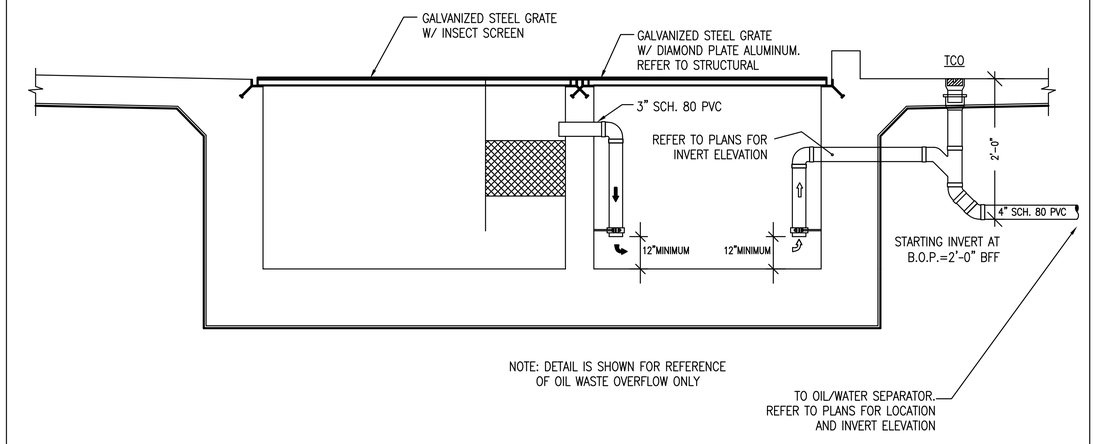
PRESSURE WATER

MARK	MANUFACTURER	MODEL#	DISCRIPTION
PW	ALKOTA	418X4	HIGH PRESSURE WASHER 5HP, DIESEL, 392,000BTU/HR, 208V/1PH/60. 1800PSI, 3.0GPM, 170° COIL SCHEDULE 40.

REMARKS:
1. PRESSURE WASHER REQUIRES FLUE ADAPTER. COORDINATE CORRECT ADAPTER MODEL NUMBER WITH MANUFACTURER.
2. CONTRACTOR SHALL COORDINATE FLUE VENT WITH MECHANICAL CONTRACTOR.



3 **TRUCK FILL STAND PIPE**
NOT TO SCALE



4 **WASH BAY PIT SECTION**
NOT TO SCALE

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PGAL PROJECT NUMBER

1003526

SHEET TITLE

PLUMBING DETAILS

SHEET NUMBER

P6.02

TECHNOLOGY LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES	▽	INDICATES THE LOCATION OF A NEW TECHNOLOGY OUTLET. CONTRACTOR TO PROVIDE FACEPLATE WITH A MINIMUM OF 4–PORTS AT EACH LOCATION UNLESS OTHERWISE NOTED. ELECTRICAL CONTRACTOR TO PROVIDE A DOUBLE GANG BACK BOX WITH A SINGLE GANG REDUCER RING AND A 1" EMT CONDUIT FROM THE BOX TO THE NEAREST ACCESSIBLE CEILING. SOME EXISTING BUILDINGS MAY REQUIRE SURFACE MOUNTED RACEWAY. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL RACEWAY AS SPECIFIED AND DESIGNATE IN THE ELECTRICAL CONTRACT DOCUMENTS. SYSTEM INSTALLER TO PROVIDE AND INSTALL A PLASTIC PROTECTIVE BUSHING, ON EACH CONDUIT STUB–OUT, TO PREVENT CABLE DAMAGE.
	▽	INDICATES THE LOCATION OF A FLOOR MOUNTED TECHNOLOGY OUTLET. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A FLOOR BOX WITH (1) 1" CONDUIT PER EVERY (6) CABLES INSTALLED. ALL CONDUITS SHALL ROUT FROM THE FLOOR BOX, DIRECTLY TO THE WALL INDICATED AND STUB–UP INTO THE NEAREST ACCESSIBLE PLENUM CEILING
	⌖	INDICATES THE LOCATION OF A CEILING MOUNTED OUTLET. CONTRACTOR SHALL MOUNT THIS OUTLET AT +12" ABOVE THE CEILING AND COORDINATE ALL FINAL LOCATIONS WITH OTHER TRADES ON THE PROJECT TO VERIFY THAT THE LOCATION OF THE OUTLET MAINTAINS 12" OF CLEARANCE FROM THE FRONT OF THE FACEPLATE FOR OWNER ACCESS. ELECTRICAL CONTRACTOR SHALL ROUTE (1) 1" CONDUIT FROM THE BUILDING STRUCTURE TO A SINGLE GANG BACK BOX MOUNTED AT 5' OR LESS ABOVE THE FINISHED CEILING. SECURE CONDUIT AND BACK BOX TO INSURE MINIMAL SWAY MOVEMENT.
	'D#'	DESIGNATES THAT THE ASSOCIATED TECHNOLOGY OUTLET IS INTENDED FOR THE USE OF A NETWORK CONNECTION. THE '#' SHALL BE REPLACED WITH NUMERIC TEXT THAT IDENTIFIES THE TOTAL NUMBER OF NETWORK CABLES THAT ARE TO BE INSTALLED AT THE TECHNOLOGY OUTLET LOCATION. CONTRACTOR TO PROVIDE AND INSTALL NETWORK CABLES, CONNECTORS, FACEPLATES WITH IDENTIFICATION WINDOWS, LABELS, BLANK INSERTS, AND ANY OTHER MATERIALS REQUIRED TO FURNISH A COMPLETE FUNCTIONAL AND TESTED OUTLET LOCATION. ALL FACEPLATES PROVIDED SHALL CONTAIN A MINIMUM 4–PORTS AND SHALL BE APPROPRIATELY SIZED TO ACCOMMODATE THE NUMBER OF CIRCUITS BEING INSTALLED AT THIS TECHNOLOGY OUTLET LOCATION.
	'W'	DESIGNATES THAT THE ASSOCIATED TECHNOLOGY OUTLET IS INTENDED FOR THE USE OF A WALL MOUNTED TELEPHONE CONNECTION. CONTRACTOR TO PROVIDE AND INSTALL (1) NETWORK CABLE, CONNECTOR, STAINLESS STEEL WALL TELEPHONE FACEPLATE, LABELS, AND ANY OTHER MATERIALS REQUIRED TO FURNISH A COMPLETE FUNCTIONAL AND TESTED CIRCUIT AT EACH LOCATION SHOWN. CONTRACTOR SHALL MOUNT THIS OUTLET AT +44" AFF AND COORDINATE ALL FINAL LOCATIONS WITH OTHER TRADES ON THE PROJECT TO VERIFY THAT THE LOCATION OF THE OUTLET MAINTAINS 8" OF CLEARANCE ON ALL FOUR SIDES OF THE BACK BOX. OUTLETS SHALL REMAIN CLEAR OF ROOM DOORS, CABINET DOORS, APPLIANCE DOORS, AND SLIDING DRAWERS.
	'AP'	DESIGNATES THAT THE ASSOCIATED TECHNOLOGY OUTLET IS INTENDED FOR THE USE OF A WIRELESS ACCESS POINT CONNECTION. CONTRACTOR TO PROVIDE AND INSTALL (1) NETWORK CABLE, (1) CONNECTOR, FACEPLATE WITH IDENTIFICATION WINDOWS, LABELS, AND ANY OTHER MATERIALS REQUIRED TO FURNISH A COMPLETE FUNCTIONAL AND TESTED CIRCUIT AT EACH LOCATION SHOWN. PROVIDE (1) 20' PLENUM PATCH CABLE FOR EACH LOCATION INSTALLED. PATCH CABLE TO BE INSTALLED AND ROUTED BY OWNER.
		INDICATES THE LOCATION OF AN IP VIDEO SURVEILLANCE CAMERA. CONTRACTOR TO PROVIDE AND INSTALL NETWORK CABLES, CONNECTORS, FACEPLATES WITH IDENTIFICATION WINDOWS, LABELS, BLANK INSERTS, AND ANY OTHER MATERIALS REQUIRED TO FURNISH A COMPLETE FUNCTIONAL AND TESTED OUTLET LOCATION. ALL FACEPLATES PROVIDED SHALL SHALL BE APPROPRIATELY SIZED TO ACCOMMODATE THE NUMBER OF CIRCUITS BEING INSTALLED AT THIS OUTLET LOCATION. PROVIDE (1) 20' PLENUM PATCH CABLE FOR EACH LOCATION INSTALLED. PATCH CABLE TO BE INSTALLED AND ROUTED BY SECURITY CAMERA SYSTEM INSTALLER.
	'BLANK'	INDICATES THAT THE ASSOCIATED TECHNOLOGY OUTLET IS INTENDED FOR FUTURE USE. CONTRACTOR TO PROVIDE STAINLESS STEEL, SINGLE–GANG WALL PLATE AT ALL LOCATIONS.

NOTES:

REFERENCE TECHNOLOGY GENERAL NOTES, PLAN KEYED NOTES, AND ALL OTHER SYSTEM LEGENDS/NOTES. NO DATA CABLES SHALL BE EXPOSED AT SPACES WITHOUT HUNG CEILING. CONDUIT PATHWAY SHALL BE PROVIDED OVER NON–ACCESSIBLE CEILING PLENUM OR SPACES WITHOUT HUNG CEILING. ALL CONDUITS AND BOXES SHALL BE PROPERLY RATED FOR THE ENVIRONMENT (BE OUTDOOR RATED WHERE IT IS LOCATED IN OUTDOOR SPACES, ETC.)

AUDIO/VIDEO LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES	#MP'	INDICATES THE LOCATION OF A VIDEO PROJECTOR # TO BE REPLACED WITH "C" OR "W". "C" INDICATES THAT THE DEVICE IS A CEILING MOUNTED DEVICE AND "W" INDICATES IT IS TO BE WALL MOUNTED. CONTRACTOR TO PROVIDE AND INSTALL A PROJECTOR, WIRELESS GATEWAY, CEILING OR WALL MOUNTING KIT, AND HDMI PATCH CABLE FROM THE WIRELESS GATEWAY TO THE PROJECTOR INPUT
	'AV-*#'	INDICATES THAT THE DESIGNATED TECHNOLOGY OUTLET IS INTENDED FOR AN AUDIO/VIDEO (A/V) INPUT. CONTRACTOR TO PROVIDE AND INSTALL A FLOOR MOUNTED OR WALL MOUTED BOX AS INDICATED. (2) 1.25" CONDUITS FROM THE BOX TO THE NEAREST, PLENUM ACCESSIBLE CEILING WITHIN THE SAME ROOM. ALL FLOOR AND WALL MOUNTED BOXES SHALL BE A MINIMUM OF 2–GANGS. *# – WHEN REPLACED WITH A '1' (AV–1) ONLY, THE OUTLET SHALL BE A STANDALONE, LOCAL INPUT TIED TO A LOCAL VIDEO DISPLAY AND CONNECTED TO NO SYSTEM FOR ROUTING TO DISPLAYS LOCATED IN ANY OTHER PORTION OF THE PROJECT. OTHERWISE, THE INSTRUCTIONS IN THE "NOTES" BELOW SHALL APPLY.
	'LCD-*#'	INDICATES THE LOCATION OF A FLAT PANEL DISPLAY. DISPLAY DEVICES, MOUNTING BRACKET AND ALL AV CABLING TO BE PROVIDED AND INSTALLED BY OTHERS (OFOI). *# – WHEN REPLACED WITH A '1' (LCD–1) ONLY, PROVIDE ONE (1) NETWORK DATA CABLE AND ONE (1) RG6 COAX CABLE FROM IDF ROOM. PROVIDE ONE (1) VOICE/DATA OUTLET BOX AND 1" STUBUP TO CEILING (NO AV OUTLET IS REQUIRED). *# – WHEN REPLACED WITH A '2' (LCD–2), PROVIDE ADDITIONAL AV OUTLET BOX WITH TWO(2) 1.25" STUBUP TO CEILING FOR FUTURE AV CABLING. PROVIDE PROPER IN–WALL BACKING TO SUPPORT THE WEIGHT OF THE FLAT PANEL
	SL	PROVIDE AND INSTALL AN INSTRUCTIONAL SPACE LOCAL PRESENTATION SPEAKER AT THIS LOCATION

NOTES:

*# – UNLESS SPECIFICALLY NOTED OTHERWISE, THE FOLLOWING SHALL APPLY TO EACH DEVICE SHOWN ON THE ENTIRE PROJECT:

* SHALL BE REPLACED WITH ALPHABETICAL CHARACTERS THAT SHALL INDICATE THE SPECIFIC VENUE THAT THE DEVICE IS ASSOCIATED WITH.

SHALL BE REPLACED WITH A NUMERIC VALUE THAT SHALL IDENTIFY THE SPECIFIC DEVICE WITHIN THE SPECIFIC VENUE.

AV DEVICES ARE SHOWN FOR ROOUGH–IN ONLY. ALL AV DEVICES AND CABLING WILL BE PROVIDED BY OTHERS.

INTRUSION DETECTION LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES	IDP	DESIGNATES THE LOCATION OF THE INTRUSION DETECTION SYSTEM, CONTROL PANEL. ELECTRICAL CONTRACTOR TO PROVIDE 120V POWER TO PANEL
		FLUSH MOUNTED MAGNETIC DOOR CONTACT.
	SDC	SURFACE MOUNTED MAGNETIC DOOR CONTACT.
	ODC	OVERHEAD DOOR, SURFACE MOUNTED DOOR CONTACT.
	KP	INTRUSION DETECTION SYSTEM ARM/DISARM KEYPAD.
	M	STANDARD RANGE WALL MOUNTED MOTION DETECTOR.
	M	MEDIUM RANGE WALL MOUNTED MOTION DETECTOR.
	M	LONG RANGE WALL MOUNTED MOTION DETECTOR.
	M R	CEILING MOUNTED, 360° MOTION DETECTOR. RELAY/MONITOR MODULE
	DB	DURESS BUTTON
	WSR	WIRELESS SECURITY RECEIVER. ELECTRICAL CONTRACTOR TO PROVIDE ONE (1) SINGLE GANG BACK BOX WITH A 1" CONDUIT ROUTING TO THE NEAREST ACCESSIBLE CEILING. MOUNT AT 12" BELOW THE FINISHED CEILING, BUT DO NOT EXCEED 12'–0" AFF.

NOTES:

1. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS

ACCESS CONTROL LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES	CR	WALL OR MULLION MOUNTED ACCESS CONTROL PROXIMITY CARD READER.
	CR	ACCESS CONTROL PROXIMITY CARD READER THAT IS INTEGRATED INTO THE DOOR HARDWARE.
	DR	DOOR RELEASE BUTTON
	PIR	MOTION REQUEST TO EXIT DEVICE
	ACP	DESIGNATES THE LOCATION OF THE ACCESS CONTROL SYSTEM, CONTROL PANEL. ELECTRICAL CONTRACTOR TO PROVIDE 120V. POWER TO PANEL. PROVIDE NETWORK CABLE TO PANEL AND COORDINATE WITH THE OWNER'S TECHNOLOGY DEPARTMENT ON ACQUIRING AN IP ADDRESS.
	IX	WALL OR MULLION MOUNTED, 2–WAY AUDIO/VIDEO INTERCOM DOOR STATION.
	IX	DOOR MOUNTED, 2–WAY AUDIO/VIDEO INTERCOM DOOR STATION.
	MS	2–WAY AUDIO/VIDEO INTERCOM MASTER STATION.
	PB	ADA AUTO DOOR OPEN BUTTON. SHOWN FOR REFERENCE ONLY, BUTTON AND AUTO DOOR OPERATOR PROVIDED AND INSTALLED BY THE DOOR SYSTEM INSTALLER.
	DO	AUTO DOOR OPERATOR. OPERATOR TO BE PROVIDED AND INSTALLED BY THE DOOR SYSTEM INSTALLER.
	LD	INDICATES THE LOCATION OF LOCKDOWN BUTTON. BUTTON SHALL BE WALL MOUNTED AND BLUE IN COLOR, UNLESS NOTED OTHERWISE.

NOTES:

1. REFERENCE ACCESS CONTROL SCHEDULE, DIVISION 8 AND DIVISION 28 SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS

VIDEO SURVEILLANCE LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES		INTERIOR VIDEO SURVEILLANCE CAMERA.
		EXTERIOR SECURITY CAMERA.
	VRS	VIDEO RECORDING SERVER. REFERENCE SPECIFICATIONS FOR INFORMATION CONCERNING ANALOG OR IP BASED TYPE SYSTEM.
	M	INDICATES A HIGH–PERFORMANCE, ALL–AROUND MICROPHONE. CONTRACTOR TO PROVIDE AND INSTALL AN AXIS T83 SERIES MICROPHONE WITH ALL MATERIALS REQUIRED TO MOUNT THE DEVICE IN THE LOCATION SHOWN AND CONNECT IT TO THE ASSOCIATED F44.
	#MU	INDICATES A MAIN UNIT FOR A VIDEO SURVEILLANCE SENSOR. # TO BE REPLACED WITH A NUMERIC VALUE DESIGNATING THE TOTAL NUMBER OF SENSORS. SUBCRIPT OF 'A' SHALL INDICATE MICROPHONES. AT EACH LOCATION, THE CONTRACTOR SHALL PROVIDE THE MAIN UNIT, SENSORS, MICROPHONES, AND ONE (1) CEILING SUPPORT PLATE (WREN SOLUTIONS PRODUCT NO. DCSP). MAIN UNIT SHALL CONNECT TO THE MDF/IDF SERVING THE AREA IT RESIDES IN. TERMINATE CABLE ON VIDEO SURVEILLANCE PATCH PANEL AND ADHERE TO VIDEO SURVEILLANCE CABLE COLOR.

NOTES:

1. REFERENCE VIDEO SURVEILLANCE SCHEDULE, DIVISION 8 AND DIVISION 28 SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

TYPICAL SUBSCRIPTS LEGEND

TEXT	DESCRIPTION
'WM'	INDICATES THAT THE DESIGNATED DEVICE IS TO BE WALL MOUNTED AT SPECIFIED HEIGHT OR IN COMPLIANCE WITH CODE REQUIREMENTS. ALL WALL MOUNTED HEIGHTS ARE TO BE CONFIRMED WITH THE PROJECT'S ARCHITECT PRIOR TO ROUGH–IN.
'WP'	INDICATES THAT THE DESIGNATED DEVICE SHALL BE WEATHER PROOF AND RATED FOR EXTERIOR CONDITIONS INSTALLATION.
'AC'	INDICATES THAT THE DESIGNATED DEVICE IS TO BE INSTALLED ABOVE THE COUNTERTOP. A NUMERIC VALUE SHALL REPLACE THE '#' SYMBOL AND SHALL DESIGNATE THE SPECIFIC HEIGHT ABOVE COUNTER. ALL HEIGHTS ARE TO BE CONFIRMED WITH THE PROJECT'S ARCHITECT PRIOR TO ROUGH–IN.
'AFF'	INDICATES THAT THE DESIGNATED DEVICE IS TO BE INSTALLED ABOVE THE FINISHED FLOOR. A NUMERIC VALUE SHALL REPLACE THE '#' SYMBOL AND SHALL DESIGNATE THE SPECIFIC HEIGHT ABOVE FINISHED FLOOR. ALL HEIGHTS ARE TO BE CONFIRMED WITH THE PROJECT'S ARCHITECT PRIOR TO ROUGH–IN.
'AG'	INDICATES THAT THE DESIGNATED DEVICE IS TO BE INSTALLED ABOVE THE GRADE LEVEL. A NUMERIC VALUE SHALL REPLACE THE '#' SYMBOL AND SHALL DESIGNATE THE SPECIFIC HEIGHT ABOVE GRADE. ALL HEIGHTS ARE TO BE CONFIRMED WITH THE PROJECT'S ARCHITECT PRIOR TO ROUGH–IN.
'SM'	INDICATES THAT THE DESIGNATED DEVICE IS TO BE SURFACE MOUNTED. CONTRACTOR TO PROVIDE ALL MATERIALS REQUIRED FOR A COMPLETE, SURFACE MOUNTED SOLUTION. ALL SURFACE MOUNTED PRODUCTS SHALL BE APPROVED BY THE PROJECT'S ARCHITECT PRIOR TO PROCUREMENT AND/OR INSTALLATION.
'UC'	INDICATES THAT THE DESIGNATED DEVICE IS TO BE MOUNTED ON THE UNDERSIDE OF THE ELEVATED CANOPY.
'UF'	INDICATES THAT THE DESIGNATED DEVICE IS TO BE INSTALLED UNDER A RAISED FLOOR SYSTEM.
'CM'	INDICATES THAT THE DESIGNATED DEVICE IS TO BE CORNER MOUNTED AT SPECIFIED HEIGHT. ALL WALL MOUNTED HEIGHTS ARE TO BE CONFIRMED WITH THE PROJECT'S ARCHITECT PRIOR TO ROUGH–IN.

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PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

1003526

SHEET TITLE

TECHNOLOGY SYMBOL LEGEND

SHEET NUMBER

TS0.01

TECHNOLOGY GENERAL NOTES

1. CONTRACTOR SHALL COORDINATING WITH DBR ENGINEERING PRIOR TO THE INSTALLATION OF RACKS AND RACK EQUIPMENT. NO RACKS SHALL BE PERMANENTLY INSTALLED WITHOUT WRITTEN APPROVAL OF THE PROPOSED LOCATIONS.
2. THE SELECTED, INSTALLING CONTRACTOR MUST BE A CERTIFIED INTEGRATOR/INSTALLER AUTHORIZED BY THE SPECIFIED SYSTEM MANUFACTURER TO INSTALL THE CABLE PLANT AND CONNECTIVITY PRODUCTS. REFER TO SPECIFICATIONS FOR PRODUCT TYPE AND DESCRIPTION.
3. SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AS ESTABLISHED BY ANSI/EIA/TIA, BICSI, AND THE NEC.
4. ALL WIRING SHALL MEET ALL STATE AND LOCAL ELECTRICAL CODES.
5. ALL TELECOMMUNICATIONS SYSTEMS EQUIPMENT AND MOUNTING LOCATIONS SHALL BE IN COMPLIANCE WITH ADA ACCESSIBILITY STANDARDS.
6. ALL INDUSTRY STANDARD CATEGORY 6A CABLING PRACTICES MUST BE FOLLOWED FOR ALL DATA CABLING.
7. ALL DATA CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM AC POWER CABLES, INTERCOM, FIRE ALARM, SECURITY CABLES IN ANY PARALLEL OPEN WIRE RUN.
8. ALWAYS CROSS OTHER SYSTEM CABLES AT A 90 DEGREE ANGLE.
9. ALL CABLES AND TERMINATION COMPONENTS SHALL BE MACHINE LABELED AT BOTH ENDS. LABEL ALL CABLES PER TS DRAWINGS AND/OR SPECIFICATIONS. FINAL CABLE/OUTLET IDENTIFICATION LABELS SHALL BE COORDINATED WITH THE OWNER AND DBR.
10. CONTRACTOR TO PROVIDE LIGHTNING PROTECTION ON ALL COMMUNICATION CABLE BETWEEN BUILDINGS.
11. ALL EXPOSED CABLING ROUTED IN PLENUM SHALL BE PLENUM-RATED. ALL NON PLENUM-RATED CABLING INSTALLED IN PLENUM SPACES SHALL BE INSTALLED IN CONDUIT.
12. NO TERMINATION OR SPLICES SHALL BE INSTALLED IN OR ABOVE CEILINGS UNLESS NOTED NOTED OTHERWISE.
13. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.
14. ALL CABLE INSTALLED SHALL ROUTE TO THE CENTER OF THE ROOM IN WHICH IT SERVES AND THEN TO THE OUTLET LOCATION IT IS INTENDED FOR. EACH CABLE SHALL HAVE A 10' SERVICE LOOP AT THE CENTER OF EACH ROOM AND A 3' SERVICE LOOP ABOVE EACH OUTLET LOCATION.
15. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM A PANDUIT J-MOD CABLE SUPPORT SYSTEMS AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. PANDUIT J-MOD SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. IN LOCATION WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING AT ANY LOCATIONS.
16. CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED CABLING AND COMPONENTS TO FURNISH TWO (2) ANALOG TELEPHONE CABLES TO THE FIRE ALARM SYSTEM. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
17. CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED CABLING AND COMPONENTS TO FURNISH ONE (1) ANALOG TELEPHONE CABLES TO EACH ELEVATOR MACHINE ROOM ON THE PROJECT. CONTRACTOR TO COORDINATE WITH SYSTEM INSTALLERS FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
18. CONTRACTOR TO PROVIDE AND INSTALL (1) CATEGORY 6 CABLE TO THE BUILDING'S ACCESS CONTROL HEAD END PANEL. TERMINATION OF THIS CABLE SHALL BE COORDINATED WITH THE SYSTEM INSTALLER.
19. CONTRACTOR TO PROVIDE AND INSTALL (1) CATEGORY 6 CABLE TO THE BUILDING'S INTRUSION DETECTION PANEL. TERMINATION OF THIS CABLE SHALL BE COORDINATED WITH THE SYSTEM INSTALLER.
20. PROVIDE AND INSTALL ONE (1) CATEGPRY 6 CABLE TO EACH VIDEO SURVEILLANCE MAIN UNIT ON THE ENTIRE PROJECT REFERENCE FLOOR PLANS, VIDEO SURVEILLANCE SYSTEM LEGEND, AND VIDEO SURVEILLANCE CAMERA SCHEDULE FOR ADDITIONAL INFORMATION.
21. PROVIDE AND INSTALL ONE (1) CATEGORY 6 CABLE TO EACH LIGHTING CONTROL HUB ON THE ENTIRE PROJECT. COORDINATE EXACT QUANTITY AND LOCATIONS WITH THE LIGHTING CONTROL SYSTEM INSTALLER. CONTRACTOR TO ASSUME A MINIMUM OF TWENTY (20) PER PROJECT.
22. PROVIDE AND INSTALL ONE (1) CATEGORY 6 DATA CIRCUIT TO THE LOCAL AIR UNIT CONTROLLER IN EACH MDF AND IDF.

SECURITY GENERAL NOTES

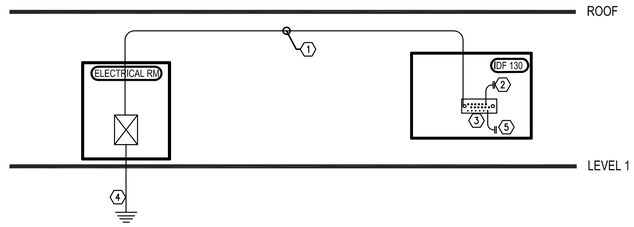
1. THE SECURITY CAMERA SYSTEM INSTALLER SHALL BE RESPONSIBLE FOR CONNECTING ALL APPLICABLE SYSTEM EQUIPMENT TO THE OWNER'S NETWORK.
2. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM AN APPROVED CABLE SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. THE CABLE SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. AT LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING AT ANY LOCATIONS.
3. SECURITY CAMERA SYSTEM INSTALLER SHALL PROVIDE A CEILING MOUNTED INSTALLATION KIT RECOMMENDED BY THE MANUFACTURER OF THE CAMERA. EACH CEILING MOUNTED CAMERA KIT SHALL HAVE A SUPPORT WIRE ATTACHED TO THE BUILDING'S STRUCTURE TO PREVENT THE CAMERA FROM DROPPING TO THE FLOOR AT ANY TIME. AT NO POINT SHALL THE WEIGHT OF THE CEILING MOUNTED SECURITY CAMERA BE SUPPORTED BY THE CEILING GRID SYSTEM OR CEILING TILES. ALL CEILING MOUNTED CAMERAS SHALL BE FLUSH MOUNTED.
4. ALL EXTERIOR AND WALL MOUNTED CAMERA LOCATIONS AND MOUNTING HEIGHTS MUST BE COORDINATED WITH THE OWNER PRIOR TO ROUGH-IN. COORDINATION MEETINGS SHALL BE SCHEDULED THROUGH THE ARCHITECT'S PROJECT MANAGER.

GENERAL NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF EACH SYSTEM SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. PROJECTS ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER TO MAIN CONTROL PANELS, REMOTE POWER SUPPLIES AND ALL HEAD END EQUIPMENT. SYSTEM INSTALLERS SHALL COORDINATE LOCATIONS AND CONNECTIONS WITH THE PROJECT'S ELECTRICAL CONTRACTOR.
2. THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN CONDUITS, BACK BOXES, JUNCTION BOXES, RACEWAYS, AND SLEEVES REQUIRED TO ESTABLISH CLEAR PATHWAYS FOR ALL SYSTEMS. ALL CONDUITS, SLEEVES, BOXES, AND RACEWAYS SHALL BE PROPERLY SIZED TO MAINTAIN A 40% MAXIMUM FILL RATIO.
3. ALL EXPOSED SYSTEM'S WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT, PROVIDED AND INSTALLED BY THE PROJECT'S ELECTRICAL CONTRACTOR. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4".
4. EACH SYSTEM INSTALLER SHALL BE RESPONSIBLE FOR ENSURING ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ANY MOISTURE FROM ENTERING BUILDING.
5. NO CONDUITS SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING. IF EXTERIOR CONDUITS ARE REQUIRED FOR A COMPLETE INSTALLATION, EACH SYSTEM CONTRACTOR SHALL COORDINATE WITH THE PROJECTS CONSULTANT PRIOR TO ANY ROUGH-IN.
6. EACH SYSTEM INSTALLER SHALL PROVIDE AND INSTALL PROTECTIVE BUSHINGS ON ALL CONDUIT STUB OUTS AND SLEEVES TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE EXCEPTED.
7. ALL CABLE SHALL BE ROUTED DOWN CORRIDORS, PARALLEL AND PERPENDICULAR TO THE BUILDING WALLS AND STRUCTURE. CABLE TO EACH DEVICE SHALL BRANCH OFF OF A MAIN CORRIDOR TRUNK. ROUTING CABLES THROUGH CLASSROOMS, OFFICES, STORAGE ROOMS, RESTROOMS OR ANY TYPE OF ROOM OTHER THAN A CORRIDOR WILL NOT BE ACCEPTED. ENTER ALL ROOMS ABOVE THE ASSOCIATED ROOM DOORWAY.

KEYED NOTES

1. STRANDED COPPER INSULATED CONDUCTOR, MINIMUM #4/0 TO BUILDING'S ELECTRICAL SERVICE MAIN GROUNDING ELECTRODE SYSTEM SIZED TO TEST TO EQUAL TO OR LESS THAN 0.1 OHMS. ROUTE CONDUCTOR TO ELECTRICAL SERVICE WITH FEWEST BENDS AS PRACTICAL. LABEL EACH END OF CONDUCTOR WITH ROOM NUMBER TO WHICH CABLE IS ROUTED. (BY DIV. 26)
2. BONDING COPPER CONDUCTOR (SIZE #2/0 AWG) FROM BUSBAR TO EACH ROW OF EQUIPMENT RACKS, ALONG ENTIRE LENGTH OF ROW. BOND EACH RACK TO BONDING CONDUCTOR WITH A #6 AWG STRANDED BONDING COPPER CONDUCTOR. (TYP)
3. NEMA RATED TGB ¼" X 4" X 10" WITH STAND OFF INSULATORS. BOND GROUND CONDUCTOR TO TMGB WITH TWO HOLE/TWO SCREW LUG, OR EXOTHERMIC WELD. NOTE: QUANTITIES AND CONNECTIONS ARE CONCEPTUAL. PLACE QUANTITY OF BUS BARS IN MC/TR ROOMS IN LOCATIONS AS SHOWN ON ROOM DETAIL DRAWINGS. (BY DIV. 26)
4. RECOMMENDED MAX RESISTANCE EQUAL TO OR LESS THAN 5 OHMS TO MAIN BUILDING GROUNDING ELECTRODE.
5. TO BUILDING STEEL, IF AVAILABLE. MIN #6 AWG.



1 TS0.02 **COMMUNICATIONS GROUNDING RISER**

NOT TO SCALE

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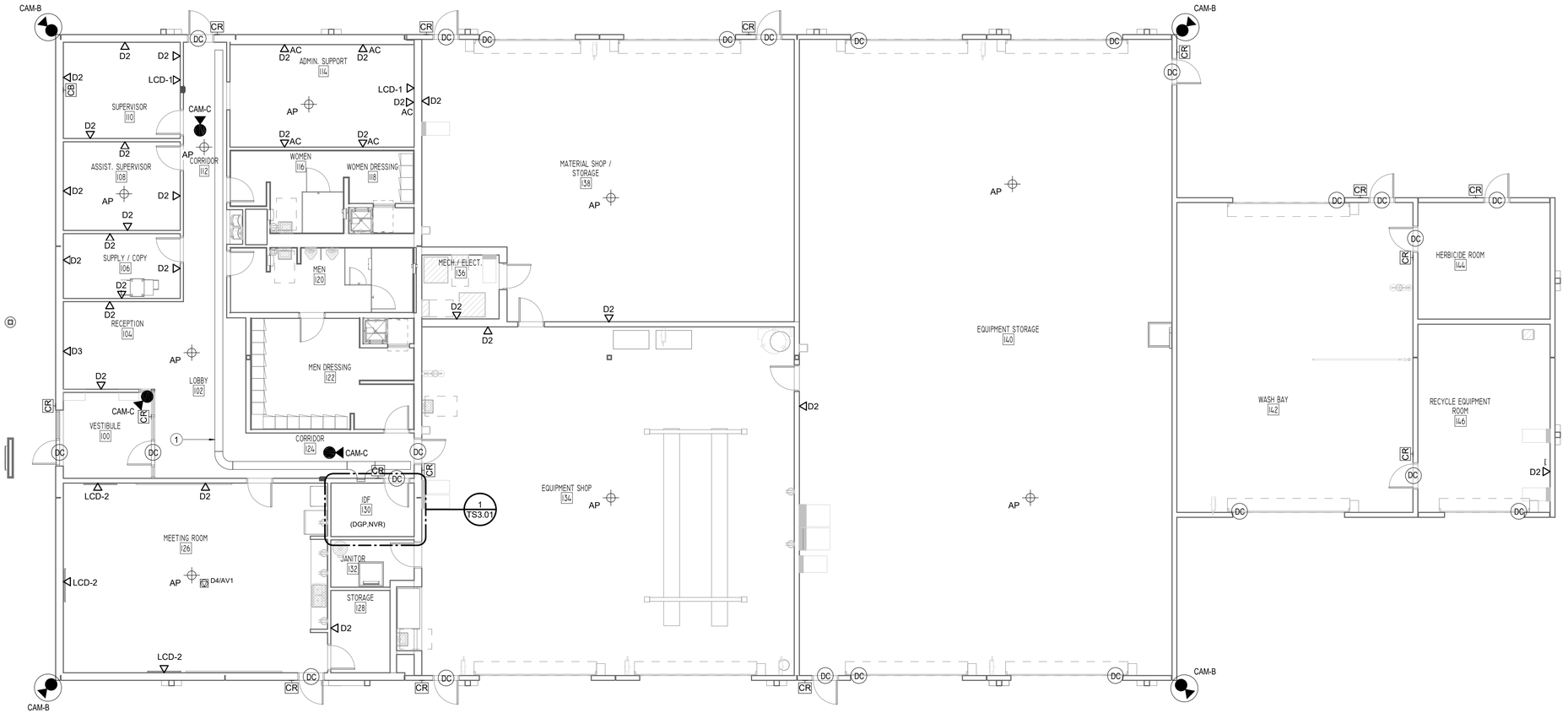
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SHEET TITLE

TECHNOLOGY NOTES AND RISER

SHEET NUMBER

TS0.02



1 LEVEL 1 TECHNOLOGY PLAN
TS2.01 — 1/8" = 1'-0"

NOTES TO CONTRACTOR

1. REFERENCE NOTES AND LEGENDS ON SHEET 000 AND 001 FOR ADDITIONAL INFORMATION

TECHNOLOGY NOTES

1. 12"W x 4"H BASKET CABLE TRAY AT 12" ABOVE CEILING

ENLARGED PLAN GENERAL NOTES

1. ALL RACK LOCATIONS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
2. PATCH PANEL QUANTITY SHALL BE DETERMINED BY STATION CABLE DROP COUNTS SHOWN ON TS PLANS AND THE ASSOCIATED PROJECT MATRIX. ENSURE PATCH PANEL QUANTITY IS SUFFICIENT TO SUPPORT THE NUMBER OF PORTS REQUIRED BY TS PLANS PLUS AN ADDITIONAL 25% FOR FUTURE GROWTH.
3. CONTRACTOR SHALL NOT MOUNT EXCEED MORE THAN A 50% RACK FILL RATIO ON ANY RACK. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS
4. ALL RACKS, LADDER TRAYS, LIGHTNING PROTECTION ENCLOSURES AND ANY OTHER DEVICES, PART OF THE STRUCTURED CABLING SYSTEM, SHALL BE GROUNDED TO A GROUND BUS BAR LOCATED IN THE TELECOMMUNICATIONS ROOM WITH A #6AWG GROUND CABLE. DAISY CHAINING WILL NOT BE ACCEPTED. ALL ITEMS SHALL HAVE A DEDICATED GROUND CABLE TO BUS BAR. GROUND CABLE SHALL BE GREEN IN COLOR.
5. ALL COPPER AND FIBER OPTIC CABLING, ROUTING BETWEEN BUILDINGS, SHALL HAVE A 20' SERVICE LOOP LOCATED INSIDE EACH EXTERIOR PULL BOX, SIZED AS DESIGNATED AT SPECIFIC LOCATIONS ON THE DRAWINGS, AND AS REQUIRED PER THE PROJECT SPECIFICATIONS.

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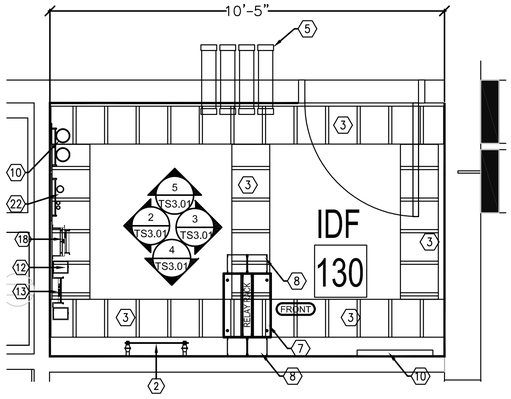
SHEET TITLE

LEVEL 1 TECHNOLOGY PLAN

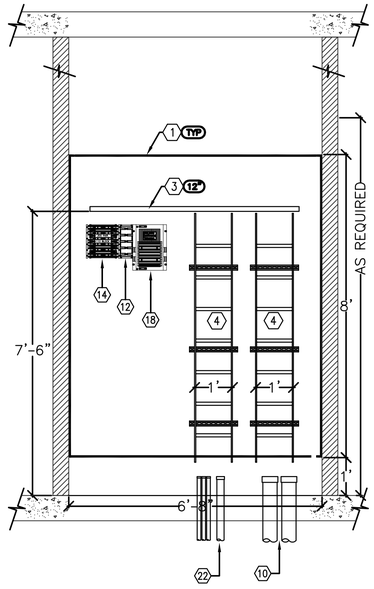
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TS2.01

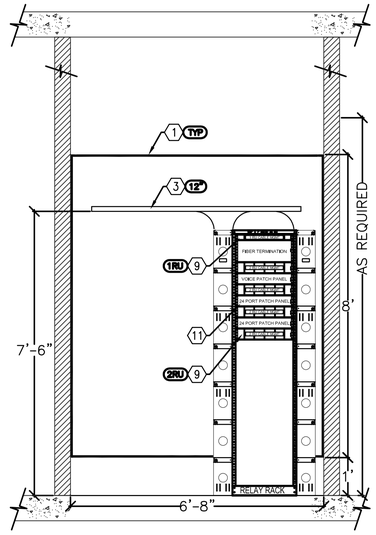
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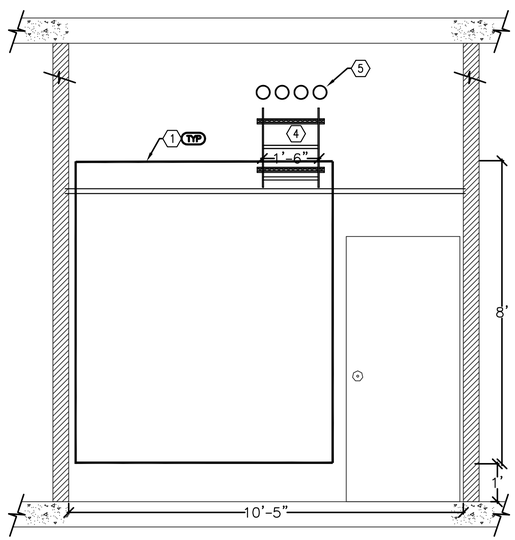
1 **IDF ROOM PLAN VIEW**
SCALE: 1/2" = 1'-0"



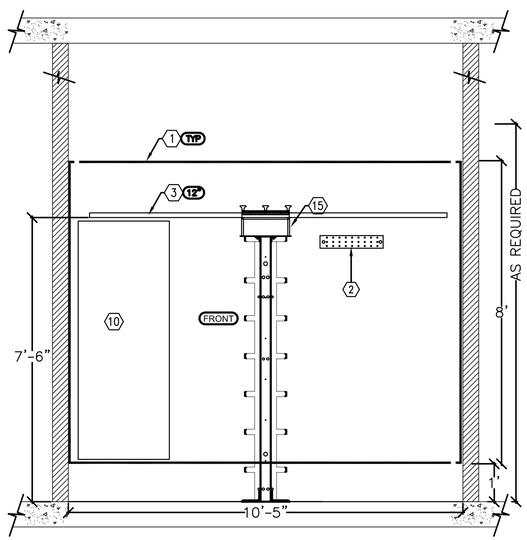
2 **IDF ROOM SECTION VIEW**
SCALE: N.T.S



3 **IDF ROOM SECTION VIEW**
SCALE: N.T.S



4 **IDF ROOM SECTION VIEW**
SCALE: N.T.S.



5 **IDF ROOM SECTION VIEW**
SCALE: N.T.S.

KEYED NOTES:

1. ¾" WALL MOUNTED PLYWOOD. (SEE NOTES PAGE)
2. TELECOMMUNICATIONS GROUNDING BUSBAR. (BY DIV 26)
3. HORIZONTAL CABLE RUNWAY/LADDER RACK. (AS INDICATED)
4. VERTICAL LADDER RACK. (AS INDICATED)
5. FOUR (4) 4" CONDUIT SLEEVES. (BY DIV 26)
6. SLOTTED CHANNEL. (UNISTRUT)
7. 19" X 7' STANDING RACK. (TYP)
8. VERTICAL RACK MOUNTED CABLE MANAGEMENT. (TYP)
9. HORIZONTAL RACK MOUNTED CABLE MANAGEMENT. (TYP)
10. COMMUNICATIONS CONDUITS TWO (2) 4" UNDERGROUND FOR AT&T
11. RJ-45 PATCH PANEL. (AS INDICATED)
12. WALL MOUNTED CABLE MANAGEMENT. (TYP)
13. VOICE RISER TERMINATION.
14. HORIZONTAL VOICE CABLE TERMINATION.
15. CABLE DROP OUT.
16. CABLE TRAY IN CORRIDOR. (AS INDICATED) (BY DIV 26)
17. FRAME AND FINISH PENETRATION. FIRE STOP AS REQUIRED. (COORDINATE FIRE RATING)
18. BUILDING ENTRANCE TERMINAL. (BET)
19. RESERVED AREA FOR SECURITY PANEL
20. RELAY RACK ELECTRICAL OUTLET. REFER TO ELECTRICAL DRAWINGS. (BY DIV 26)
21. WALL ELECTRICAL OUTLET. REFER TO ELECTRICAL DRAWINGS. (BY DIV 26)
22. COMMUNICATIONS CONDUITS ONE (1) 2" FROM RADIO ANTENNA AND THREE (3) 1" FROM GATES

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PROJECT NAME

ADMINISTRATION & MAINTENANCE BUILDING

TXDOT PROJECT ID NUMBER

16-18700

PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
78382

PGAL PROJECT NUMBER

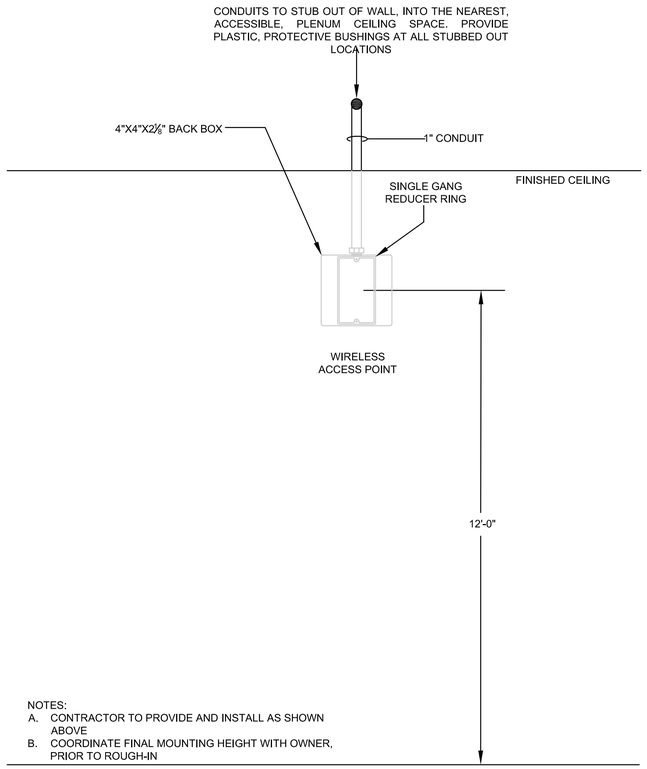
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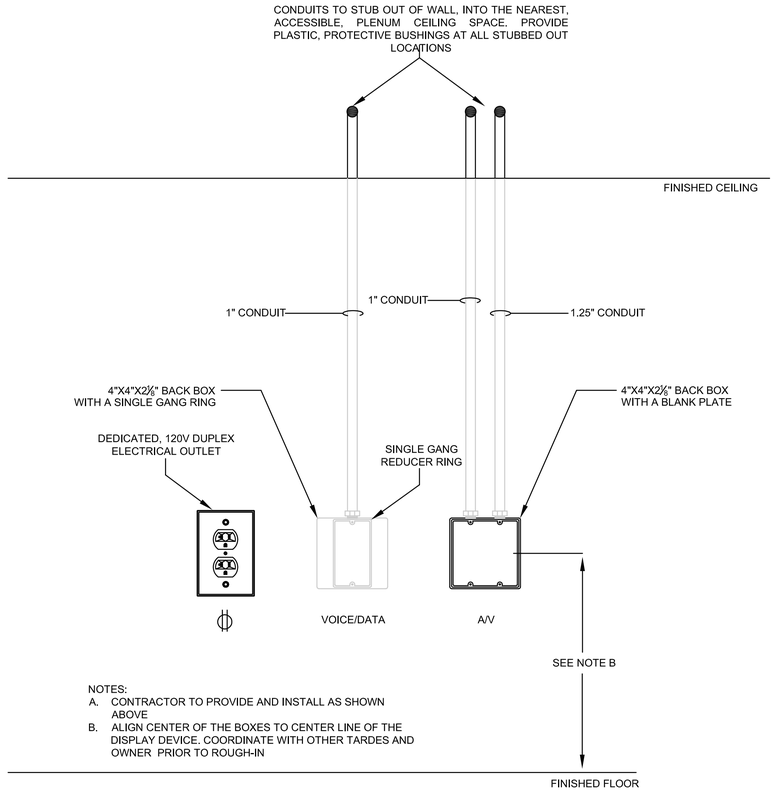
IDF ROOM DETAILS

SHEET NUMBER

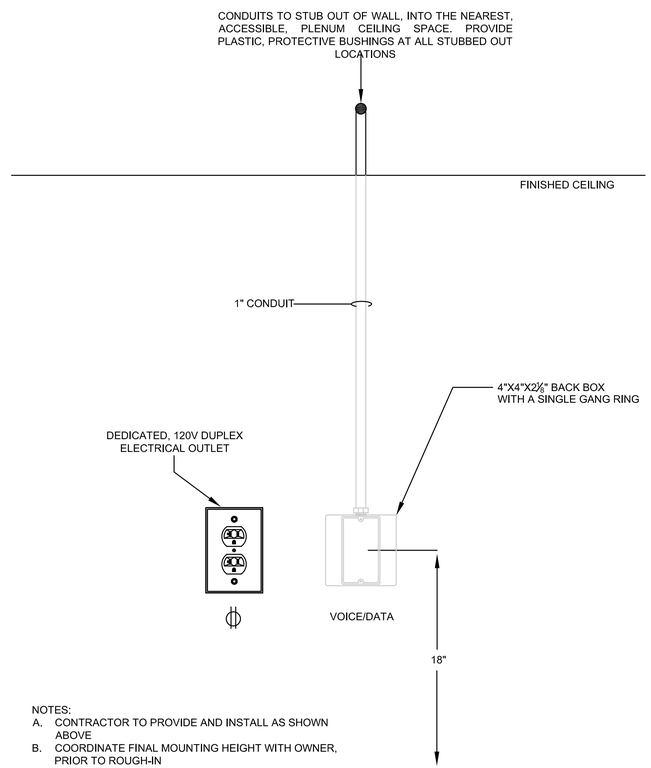
TS3.01



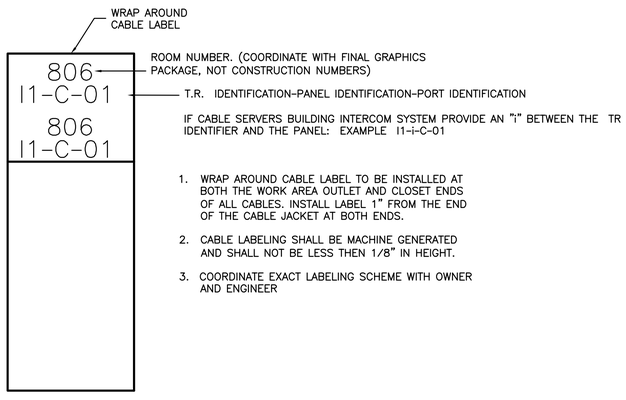
01 RACEWAY DETAIL - WALL MOUNTED WIRELESS AP NOT TO SCALE



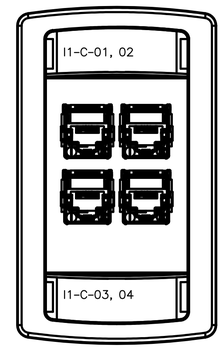
02 RACEWAY DETAIL - WALL MOUNTED LCD OUTLET NOT TO SCALE



03 RACEWAY DETAIL - TYPICAL DATA OUTLET NOT TO SCALE



05 CABLE LABEL DETAIL NOT TO SCALE



1. FACEPLATE LABELING SHALL BE MACHINE GENERATED AND SHALL NOT BE LESS THEN 1/4" IN HEIGHT.
2. PROVIDE BLANK INSERTS FOR ANY UNUSED PORTS
3. COORDINATE EXACT LABELING SCHEME WITH OWNER AND ENGINEER.

04 FACEPLATE LABEL DETAIL NOT TO SCALE

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TXDOT PROJECT ID NUMBER

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PROJECT LOCATION

1401 FM 3036
ROCKPORT, TX
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PGAL PROJECT NUMBER

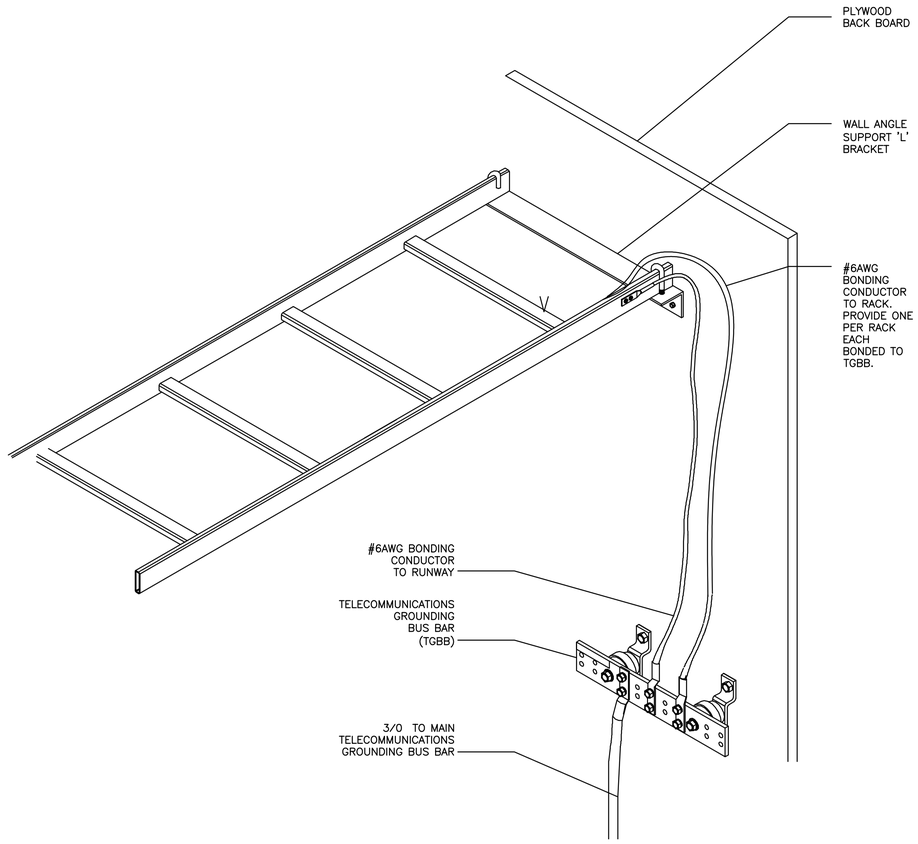
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TECHNOLOGY DETAILS

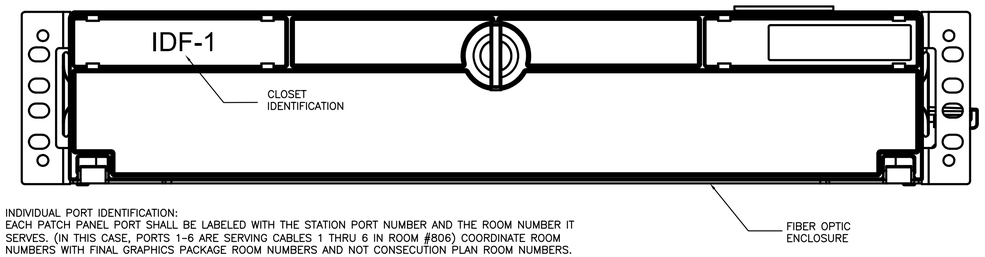
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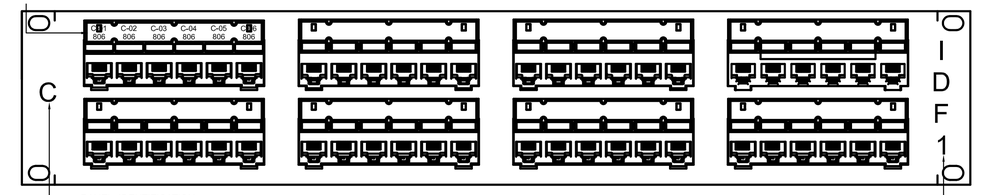


01 CABLE RUNWAY - - GROUNDING AND BONDING

NOT TO SCALE



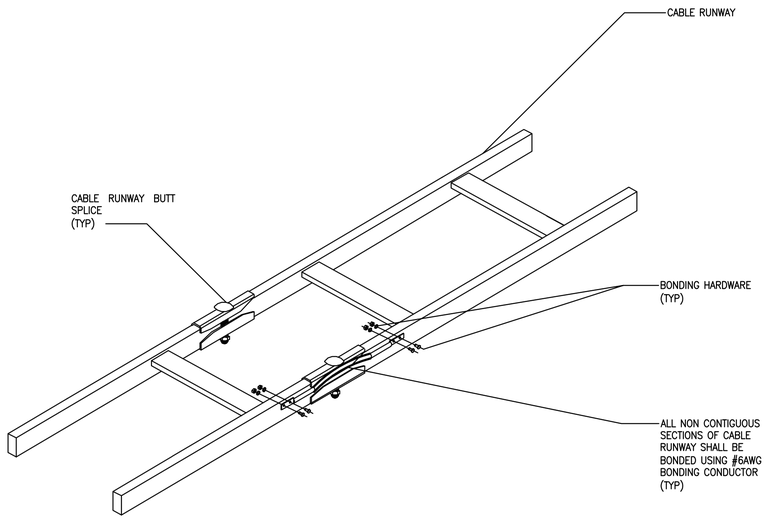
INDIVIDUAL PORT IDENTIFICATION:
EACH PATCH PANEL PORT SHALL BE LABELED WITH THE STATION PORT NUMBER AND THE ROOM NUMBER IT SERVES. (IN THIS CASE, PORTS 1-6 ARE SERVING CABLES 1 THRU 6 IN ROOM #806) COORDINATE ROOM NUMBERS WITH FINAL GRAPHICS PACKAGE ROOM NUMBERS AND NOT CONSECUTION PLAN ROOM NUMBERS.



1. PATCH PANEL PORT LABELING SHALL BE MACHINE GENERATED AND SHALL NOT BE LESS THEN 1/4" IN HEIGHT.
2. PATCH PANEL AND CLOSET IDENTIFICATION LABEL SHALL BE MACHINE GENERATED AND SHALL NOT BE LESS THEN 1/2" IN HEIGHT.
3. COORDINATE EXACT LABELING SCHEME WITH OWNER AND ENGINEER

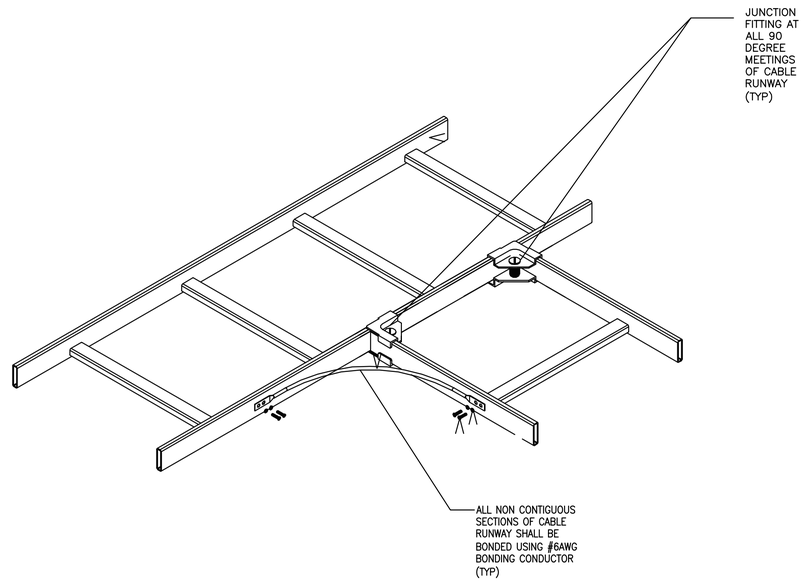
02 FIBER ENCLOSURE/ COPPER PATCH PANEL LABELING DETAIL

NOT TO SCALE



03 CABLE RUNWAY - BONDING AND BUTT SPLICE

NOT TO SCALE



04 CABLE RUNWAY - JUNCTION AND BONDING

NOT TO SCALE

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TXDOT PROJECT ID NUMBER

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PROJECT LOCATION

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ROCKPORT, TX
78382

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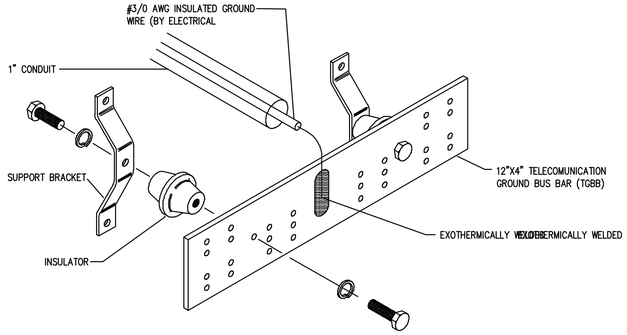
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SHEET TITLE

TECHNOLOGY DETAILS

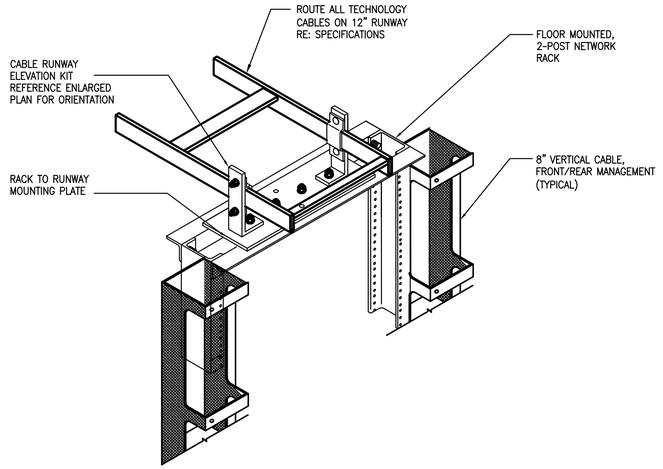
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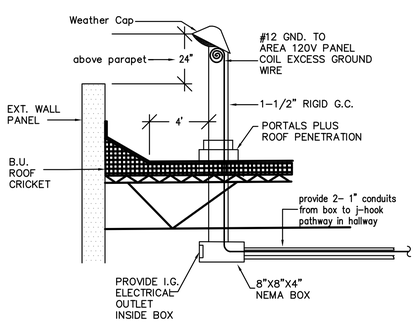
01 TELECOMMUNICATIONS GROUNDING BUS DETAIL

NOT TO SCALE



02 RACK TO RUNWAY DETAIL

NOT TO SCALE



03 TYPICAL ROOF OUTLET PENETRATION

NOT TO SCALE

04 NOT USED

NOT TO SCALE

CLIENT

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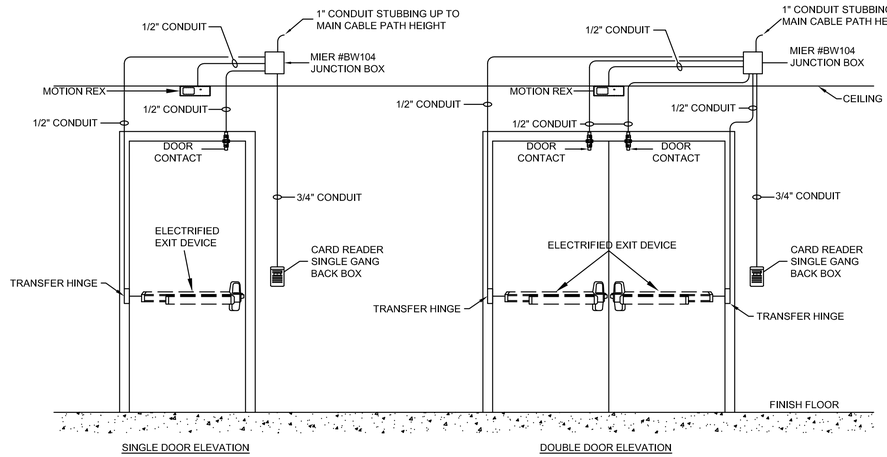
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TECHNOLOGY DETAILS

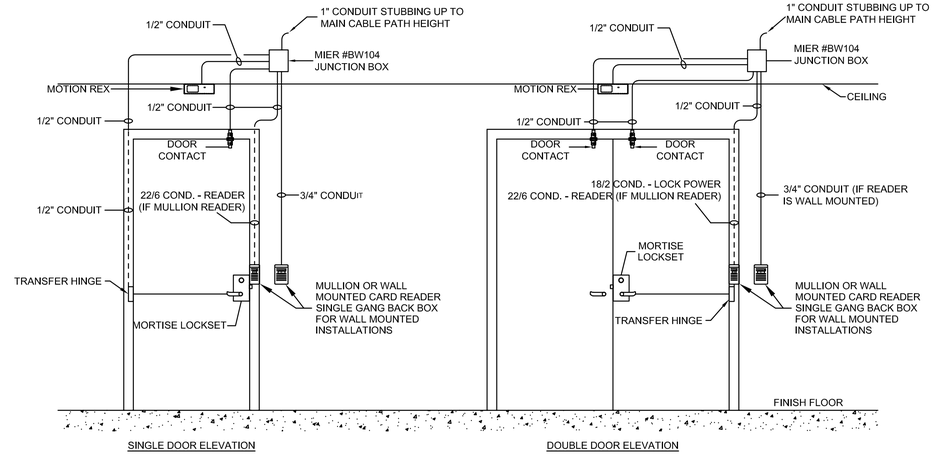
SHEET NUMBER

TS5.03



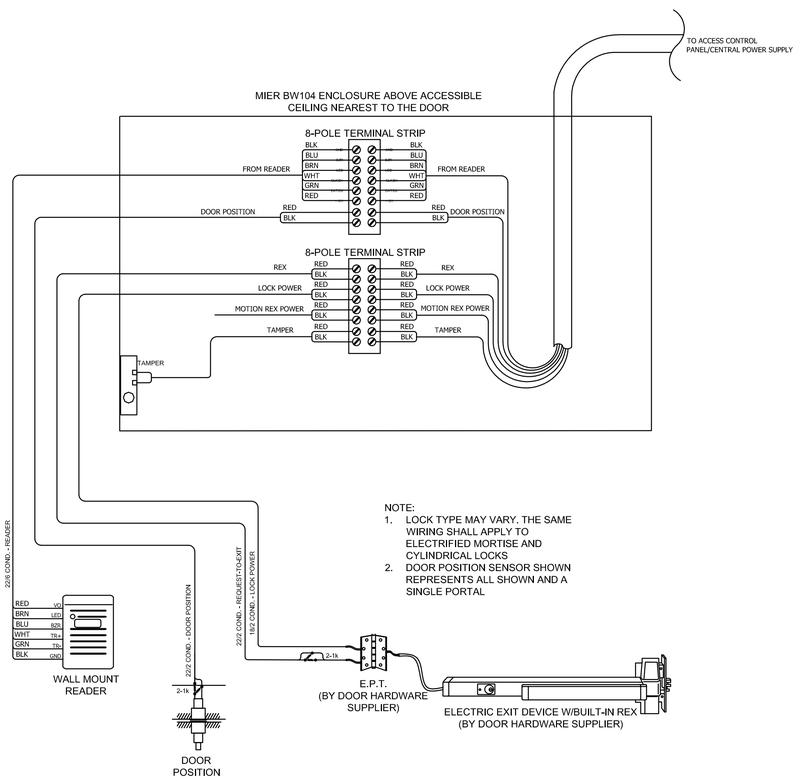
01 ELECTRIFIED EXIT DEVICE DOOR ELEVATION

NTS



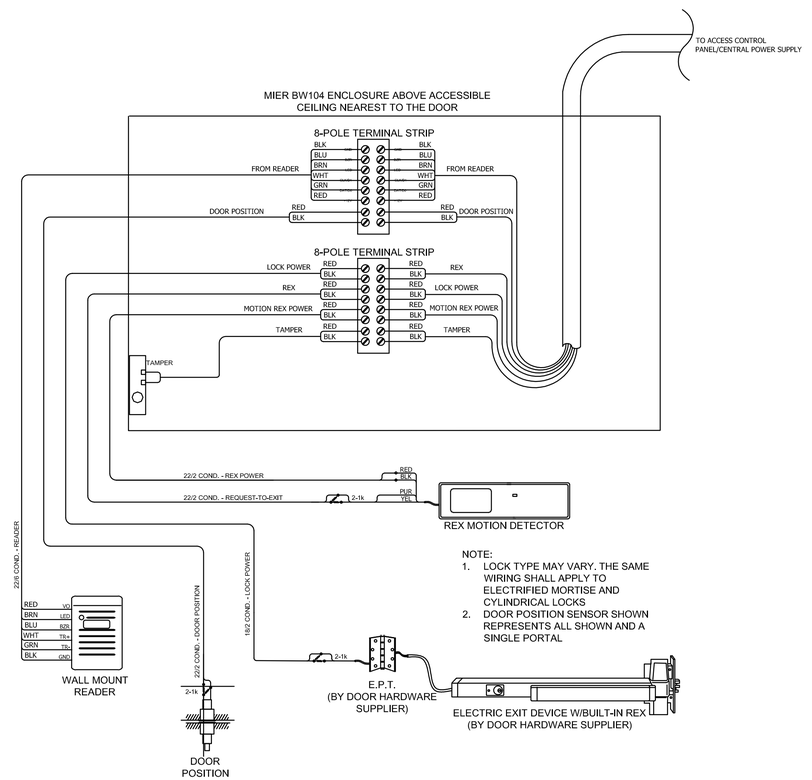
02 ELECTRIFIED MORTISE LOCK DOOR ELEVATION

NTS



04 ELECTRIFIED EXIT DEVICE WITH BUILT-IN REX WIRING DETAIL

NTS



03 ELECTRIFIED EXIT DEVICE WITH MOTION REX WIRING DETAIL

NTS

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78382

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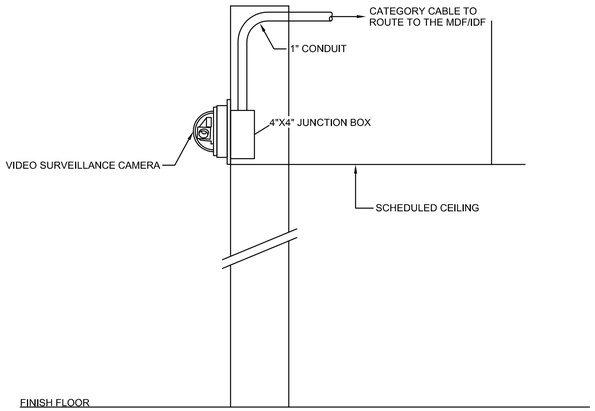
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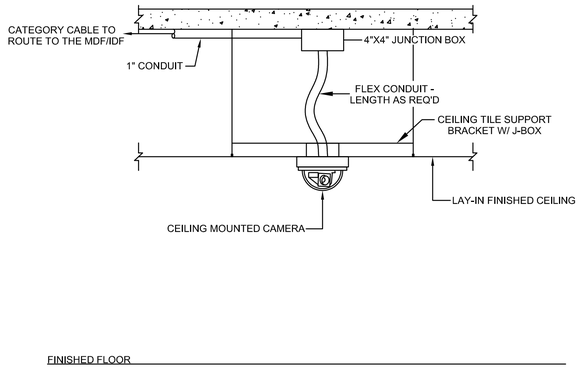
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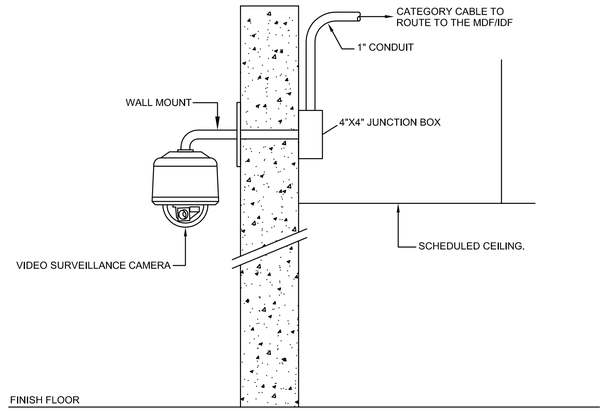
TECHNOLOGY DETAILS

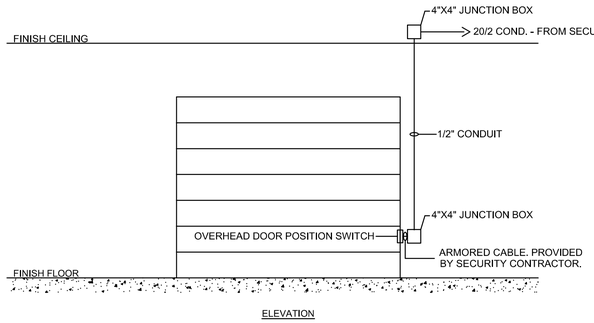
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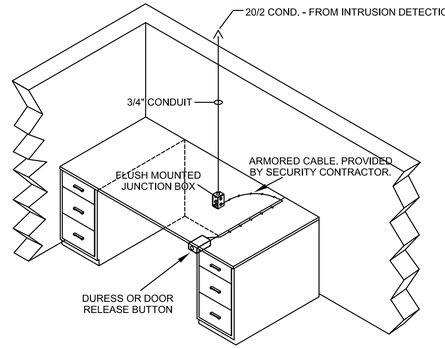








ELEVATION



LAYOUT

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78382

PGAL PROJECT NUMBER

1003526

SHEET TITLE

TECHNOLOGY DETAILS

SHEET NUMBER

TS5.05