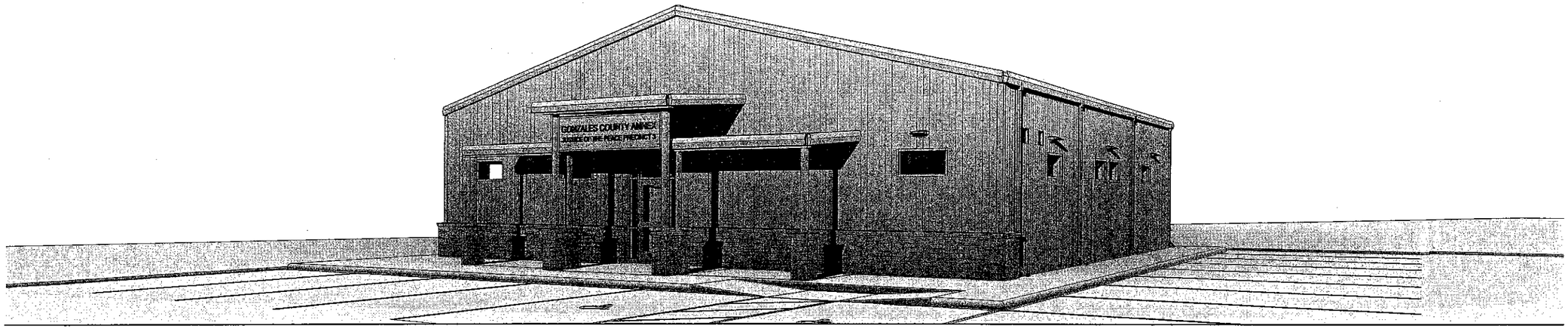
JUSTICE OF THE PEACE PRECINCT 3 BUILDING
GONZALES COUNTY



ABBREVIATIONS

ABV	ABOVE	HDR	HORIZONTAL
ADD	ADDENDUM	ID	INSIDE DIAMETER
ADDL	ADDITIONAL	INFO	INFORMATION
ADJ	ADJACENT	INT	INTERIOR
AFF	ABOVE FINISH FLOOR	INV	INVERT
ALUM	ALUMINUM	LAV	LAVATORY
APPROX	APPROXIMATELY	LH	LEFT HAND
ARCH	ARCHITECT(URAL)	MFR	MANUFACTURER
ACT	ACOUSTICAL CEILING TILE	MAX	MAXIMUM
AUTO	AUTOMATIC	MECH	MECHANICAL
BD	BOARD	MEP	MECHANICAL, ELECTRICAL, & PLUMBING
BK	BRICK	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BLKG	BLOCKING	MTL	METAL
BM	BEAM	NIC	NOT IN CONTRACT
BOTT	BOTTOM	NO	NUMBER
BOD	BOTTOM OF DECK	NOM	NOMINAL
C/P	CAST IN PLACE	NTS	NOT TO SCALE
CLR	CLEAR	OC	ON CENTER
CMU	CONCRETE MASONRY UNIT	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CO	CLEANOUT	OFOI	OWNER FURNISHED OWNER INSTALLED
COL	COLUMN	OH	OVERHEAD
CONC	CONCRETE	OPH	OPPOSITE HAND
CONT	CONTINUOUS	OSB	ORIENTED STRAND BOARD
CJ	CONTROL JOINT	PL	PLATE
CL	CENTERL LINE	PLAM	PLASTIC LAMINATE
DEMO	DEMOLITION	PLYWD	PLYWOOD
DIA	DIAMETER	PSF	POUNDS PER SQUARE FOOT
DIM	DIMENSION	PSI	POUNDS PER SQUARE INCH
DOCS	DOCUMENTS	PVC	POLYVINYL CHLORIDE
DS	DOWNSPOUT	RD	ROOF DRAIN
DTL	DETAIL	REF	REFER(ENCE)
DWGS	DRAWINGS	RH	RIGHT HAND
EA	EACH	RO	ROUGH OPENING
EJ	EXPANSION JOINT	S CONC	SEALED CONCRETE
EJC	EXPANSION JOINT COVER	SIM	SIMILAR
ELEC	ELECTRIC(AL)	SPEC	SPECIFICATION
ELEV	ELEVATOR	SS	STAINLESS STEEL
EWC	ELECTRIC WATER COOLER	STD	STANDARD
EXIST	EXISTING	STL	STEEL
EXT	EXTERIOR	STOR	STORAGE
FD	FLOORDRAIN	TOS	TOP OF STEEL
FEB	FIRE EXTINGUISHER & BRACKET	TV	TELEVISION
FEC	FIRE EXTINGUISHER CABINET	TYP	TYPICAL
FT	FOOT (FEET)	UNO	UNLESS NOTED OTHERWISE
FV	FIELD VERIFY	VCT	VINYL COMPOSITION TILE
GA	GAUGE	VERT	VERTICAL
GALV	GALVANIZED	VIF	VERIFY IN FIELD
GC	GENERAL CONTRACTOR	W/	WITH
GYP	GYPSUM	W/O	WITHOUT
GYP BD	GYPSUM WALLBOARD	WD	WOOD

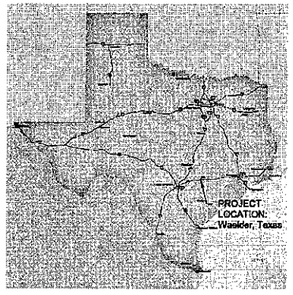
MATERIAL LEGEND

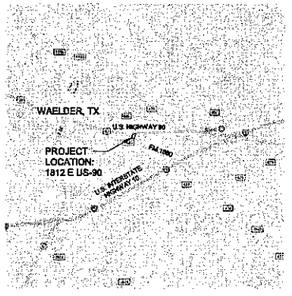
- BRICK
- CONCRETE
- CONCRETE MASONRY UNIT
- EARTH
- GLASS
- GYPSUM WALLBOARD
- LOOSE / BATT INSULATION
- METAL
- PLYWOOD
- RIGID INSULATION
- WOOD BLOCKING
- FINISH WOOD
- CAST STONE

SYMBOLS

- 0 / A1.2 — BUILDING SECTION REFERENCE
- 7 / A1.7 — INTERIOR ELEVATION REFERENCE
- RESTROOM ACCESSORY REFER TO SHEET A1.1 FOR SCHEDULE
- P1 — MATERIAL REFERENCE REFER TO SHEET A8.1 FOR SCHEDULE
- A — WINDOW TYPE REFER TO SHEET A7.1 FOR ADDITIONAL INFORMATION
- A100 — DOOR NUMBER REFER TO SHEET A7.1 FOR ADDITIONAL INFORMATION
- 0 / A-000 — ENLARGED PLAN/ DETAIL REFENCE
- 14 — WALL TYPE REFER TO SHEET A1.1 FOR ADDITIONAL INFORMATION

PROJECT LOCATION





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GONZALES COUNTY
1812 E US-90, WAELDER, TX

DATE ISSUED:
March 28, 2019

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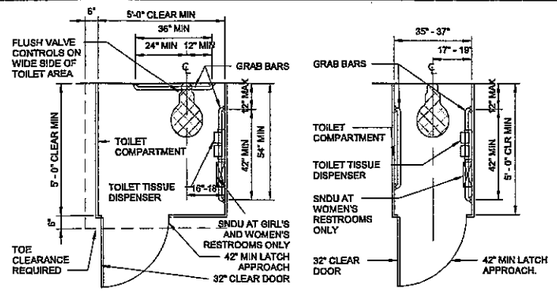
672-1118

PLAN NORTH ⊕ TRUE NORTH

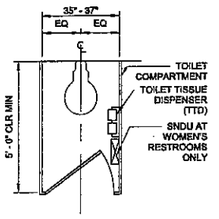
SHEET NAME
COVER SHEET

SHEET NUMBER
G1.1



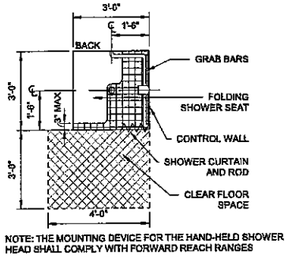
TYPICAL END OF ROW ACCESSIBLE STALL

TYPICAL AMBULATORY STALL



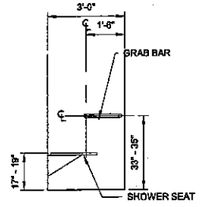
TYPICAL STANDARD STALL

J1 TYPICAL STANDARD TOILET STALL LAYOUTS
3/8" = 1'-0"

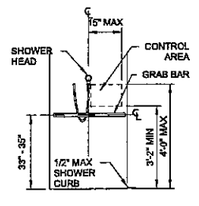


NOTE: THE MOUNTING DEVICE FOR THE HAND-HELD SHOWER HEAD SHALL COMPLY WITH FORWARD REACH RANGES

TYPICAL ACCESSIBLE TRANSFER STALL SHOWER PLAN

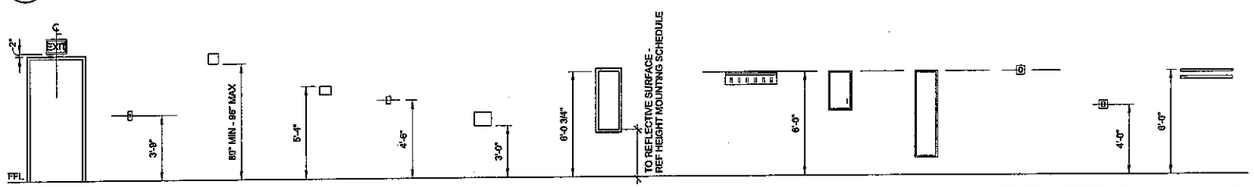


ACCESSIBLE TRANSFER SHOWER

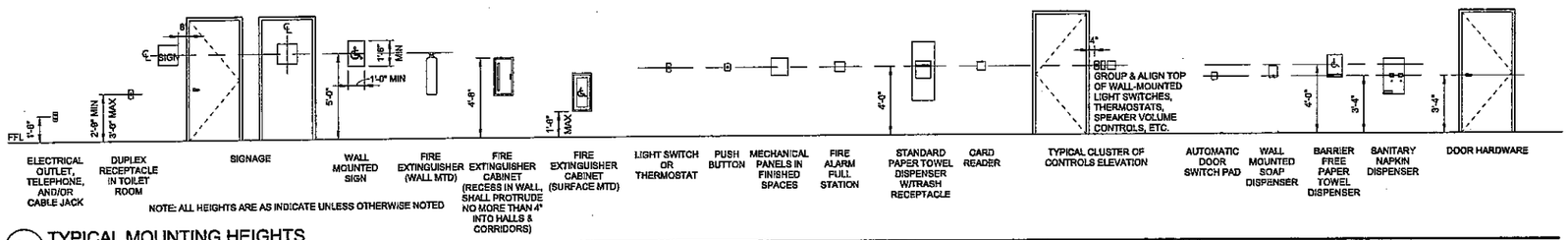


ACCESSIBLE TRANSER SHOWER CONTROL WALL ELEV

F1 TYPICAL SHOWER
3/8" = 1'-0"



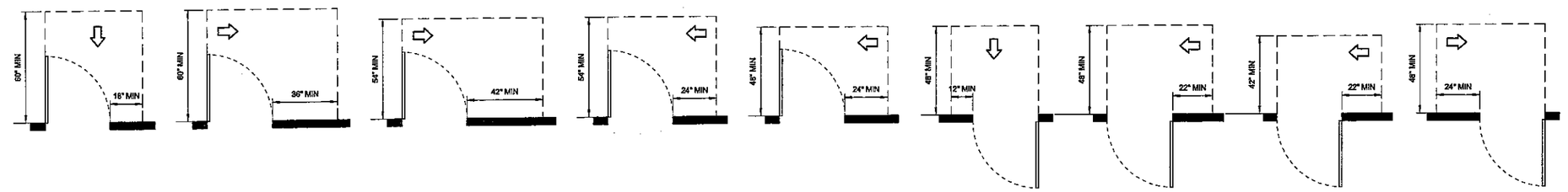
EXIT LIGHTS ABOVE DOORS | SWITCH OR WALL OUTLET ABOVE BASE CABINET | SPEAKER OR FIRE ALARM HORN OR STROBE | FIRE VALVE CABINET | BRAILLE CHARACTER | ELECTRIC HAND DRYER | ACCESSIBLE MIRROR ELEVATION | MOP & BROOM HOLDER | ELECTRICAL PANEL OR CABINET | ELECTRICAL PANEL OR CABINET | ROBE HOOK | ACCESIBLE ROBE HOOK | SHELF AND ROD



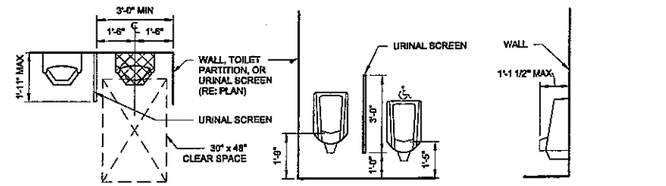
ELECTRICAL OUTLET, TELEPHONE, AND/OR CABLE JACK | DUPLEX RECEPTACLE IN TOILET ROOM | SIGNAGE | WALL MOUNTED SIGN | FIRE EXTINGUISHER (WALL MTD) | FIRE EXTINGUISHER CABINET (RECESS IN WALL, SHALL PROTRUDE NO MORE THAN 4" INTO HALLS & CORRIDORS) | FIRE EXTINGUISHER CABINET (SURFACE MTD) | LIGHT SWITCH OR THERMOSTAT | PUSH BUTTON | MECHANICAL PANELS IN FINISHED SPACES | FIRE ALARM PULL STATION | STANDARD PAPER TOWEL DISPENSER W/TRASH RECEPTACLE | CARD READER | TYPICAL CLUSTER OF CONTROLS ELEVATION | AUTOMATIC DOOR SWITCH PAD | WALL MOUNTED SOAP DISPENSER | BARRIER FREE PAPER TOWEL DISPENSER | SANITARY NAPKIN DISPENSER | DOOR HARDWARE

NOTE: ALL HEIGHTS ARE AS INDICATE UNLESS OTHERWISE NOTED

C1 TYPICAL MOUNTING HEIGHTS
1/4" = 1'-0"

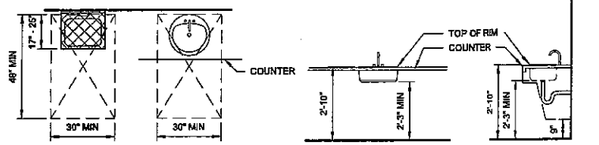


A1 TYPICAL DOOR CLEARANCES
3/8" = 1'-0"



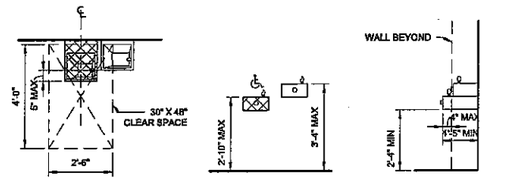
TYPICAL PLAN | TYPICAL FRONT ELEVATION | TYP SIDE ELEVATION

K11 TYPICAL URINAL LAYOUT
3/8" = 1'-0"



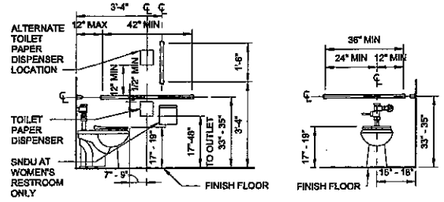
TYPICAL PLAN | TYPICAL FRONT ELEVATION | TYP SIDE ELEVATION

H11 TYPICAL LAVATORY
3/8" = 1'-0"



TYPICAL PLAN | TYP FRONT ELEVATION | TYP SIDE ELEVATION

F11 TYPICAL DRINKING FOUNTAIN
3/8" = 1'-0"



ACCESSIBLE STALL SIDE VIEW

ACCESSIBLE STALL FRONT VIEW

J7 TYPICAL STANDARD STALL MOUNTING HEIGHTS
3/8" = 1'-0"

GENERAL NOTES

1. CORSSHATCHED FIXTURES ARE TO BE MOUNTED AT ACCESSIBLE HEIGHTS.
2. INFORMATION ON THIS SHEET IS THE MINIMUM REQUIRED TO PROVIDE ACCESSIBILITY AND DOES NOT ADDRESS COMPLIANCE WITH OTHER CODES OR STANDARDS.
3. ALL DIMENSIONS SHOWN ARE TO THE FINISH FACE. CONTRACTOR TO MAKE ALLOWANCES FOR THICKNESSES OF MATERIALS SPECIFIED.

T.A.S. DOOR NOTES

1. ALL DOORS SHALL MEET T.A.S. REQUIREMENTS FOR CLEARANCES, HARDWARE, ETC.
2. ALL THRESHOLDS SHALL NOT EXCEED 1/2" IN HEIGHT AND SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
3. ALL DOORS TO HAVE A.D.A. APPROVED LEVER LOCKSETS OR LATCHSETS, PULLS, ETC. ALL OPERATING DEVICES ON DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOESN'T REQUIRE TIGHT GRASPING OR PINCHING, OR SEVERE TWISTING TO OPERATE.
4. THE FORCE REQUIRED TO ACTIVATE DOOR HARDWARE AND OPEN DOORS SHOULD BE NO GREATER THAN 5 LBFT FOR INTERIOR DOORS. OPENING FORCE FOR ALL EXTERIOR DOORS SHALL BE 8.5 LB/FT.
5. DOORS TO HAZARDOUS AREAS SUCH AS LOADING PLATFORMS, BOILER ROOMS, MECHANICAL AND ELECTRICAL ROOMS, AND OTHER AREAS THAT MIGHT BE DANGEROUS TO A BLIND PERSON SHALL BE MADE IDENTIFIABLE TO THE TOUCH BY A TEXTURED SURFACE ON THE DOOR HANDLE OR OTHER DOOR OPERATING HARDWARE.
6. THE SWEEP PERIOD ON ANY DOORS WITH CLOSERS SHOULD BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70° THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED FROM THE LEADING EDGE OF THE DOOR.
7. ADJUST CUT-OFF AT BOTTOM OF ANY EXTERIOR HOLLOW METAL DOORS WITH HANDICAP ACCESSIBLE THRESHOLDS TO INSURE THAT THERE IS NO GAP BETWEEN THE BOTTOM OF THE DOOR AND TOP OF THRESHOLD SEAT.

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Final Plans for Bidding and Construction

REGISTERED ARCHITECT Bradley Wade Kocurek 22147 STATE OF TEXAS 3.28.19

JUSTICE OF THE PEACE PRECINCT 3 BUILDING
GONZALES COUNTY
1512 E US-90, WAELDER, TX

DATE ISSUED:
March 28, 2019

PROJECT NUMBER:
872-1118

PLAN NORTH | TRUE NORTH

SHEET NAME
ADA DETAILS AND MOUNTING HEIGHTS

SHEET NUMBER
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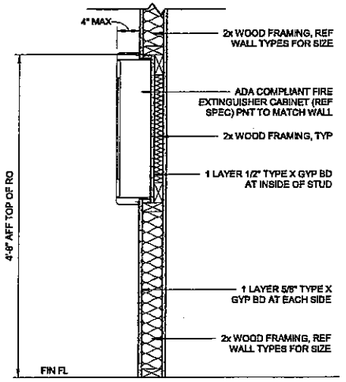
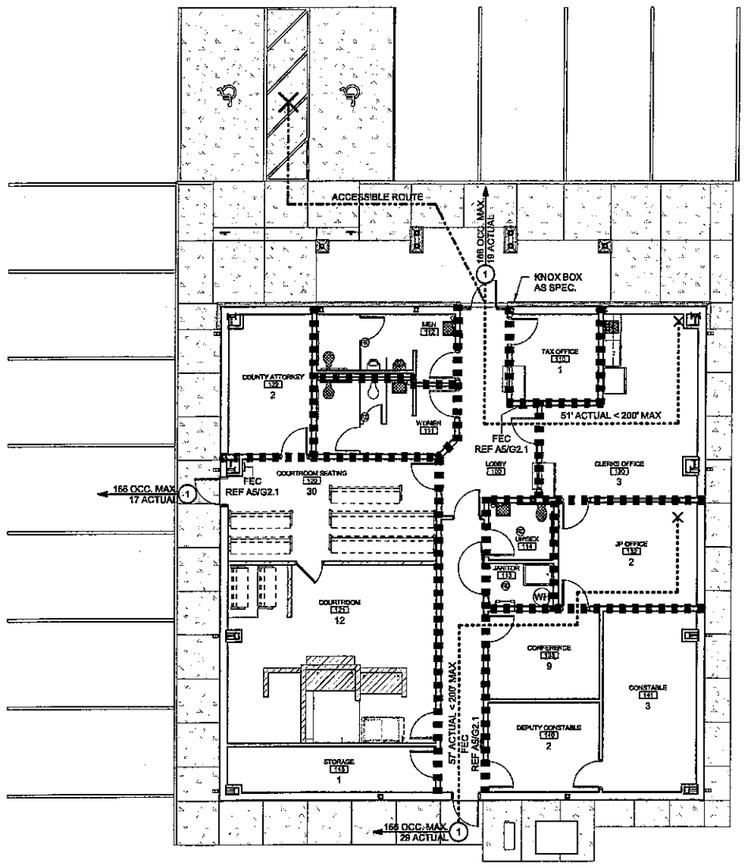


G5 FIRE EXTINGUISHER CABINET DETAILS
1" = 1'-0"



A5 CODE REVIEW PLAN
1/8" = 1'-0"

PROJECT GENERAL INFORMATION:

PROJECT	GONZALES COUNTY JUSTICE OF THE PEACE PRECINCT 3
LOCATION	WAELDER, TEXAS
BUILDING HEIGHT	ONE STORY, 21'-0" (ROOF PEAK)
FLOOR AREA SUMMARY	TOTAL: 3,188 SF

CODE REVIEW: IBC 2009

PRIMARY OCCUPANCY (SEC. 304.1)	ASSEMBLY "A-3"
AUTOMATIC SPRINKLER SYSTEM	NO
TYPE OF CONSTRUCTION (TAB 504.3/601)	TYPE V-B
BUILDING AREA AND HEIGHT LIMITATIONS	GROUP A-3 OCCUPANCY
BUILDING HEIGHT LIMITATION (TABLE 504.3)	40 FT HGT
BUILDING STORY LIMITATION (TABLE 504.4)	1 STORY HEIGHT
BUILDING AREA LIMITATION (TABLE 506.2)	6,000 SF PER FLOOR

FIRE-RESISTANCE REQUIREMENTS

FOR GENERAL BUILDING ELEMENTS:	(TABLE 601 AND SECTION 602)	DOOR RATING (TABLE 716.5)
STRUCTURAL FRAME	0 HR	
BEARING WALLS:		
EXTERIOR	0 HR	
INTERIOR	0 HR	
NONBEARING WALLS:		
EXTERIOR		
BETWEEN 10' & 30'	0 HR	0 HR
GREATER THAN 30'	0 HR	0 HR
INTERIOR	0 HR	
FOR SPECIFIC BUILDING ELEMENTS:		
CORRIDORS (TABLE 1018.1)	0 HR	0 HR

-NO FIRE-RESISTANCE REQUIRED IF CORRIDOR SERVES LESS THAN 30 OCCUPANTS

NONSEPERATED USE AREA (SEC 508.2.2)

-FIRE SEPARATIONS BETWEEN USES ARE NOT REQUIRED WHEN THE MOST RETRICTIVE USE IS APPLIED TO ENTIRE BUILDING AS DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES.

EGRESS REQUIREMENTS: IBC 2009

OCCUPANCY LOADS: (TABLE 1004.1.2)

FUNCTION OF SPACE:	SQ. FT PER OCCUPANT:
ACCESSORY STORAGE AREAS, MECH. EQUIPMENT ROOMS	300 GROSS
ASSEMBLY W/OUT FIXED SEATS:	
CONCENTRATED (CHAIRS ONLY)	7 NET
UNCONCENTRATED (TABLES AND CHAIRS)	15 NET
BUSINESS AREAS	100 GROSS

REQUIRED EGRESS WIDTH:	
MINIMUM CORRIDOR WIDTH (TABLE 1020.2)	44" MIN OR .2" PER OCCUPANT WHICHEVER IS GRATER
NUMBER OF EXITS REQUIRED (SEC 1015)	
1-49 OCCUPANTS	1
50-500 OCCUPANTS	2
MAXIMUM TRAVEL DISTANCE TO AN EXIT (TAB 1016.1)	
OCCUPANCY A, B, E, F-1, M, R, S-1	200' - W/O AUTO FIRE SUPPRESSION
MAXIMUM LENGTH OF DEAD END CORRIDORS (1018.4, EXC 2 & 3)	20' OR 2.5 TIMES THE MIN. WIDTH OF THE DEAD END CORR.
EXITS THROUGH ADJOINING ROOMS (1014.2)	PERMITTED AT ACCESSORY, NON-HI-HAZARD ROOMS W/ A DECERNABLE PATH OF TRAVEL PROVIDED; NOT PERMITTED THROUGH KITCHENS, STORAGE, OR SIMILAR

MISCELLANEOUS DETAILED REQUIREMENTS

CEILING HEIGHT FOR MEANS OF EGRESS (SEC 1208.2)	7'-6" MIN
CEILING HEIGHT FOR OCCUPIABLE SPACES AND CORRIDORS (SEC 1208.2)	7'-6" MIN

OCCUPANCY TOTAL

ASSEMBLY "A-3"
65 OCCUPANTS
2 EXITS REQUIRED: 3 EXITS PROVIDED
10.8" REQUIRED: 99.6" PROVIDED

EGRESS LEGEND

TYPE	DESCRIPTION	COUNT
1	3'-0" DOORS (33.2" CLR.) AT .2"/PERSON = 166 PERSONS	3

WALL RATING LEGEND

NON-RATED WALL TO DECK

PLUMBING COUNT

TYPE OF OCCUPANCY: ASSEMBLY (A-3)					
TOTAL No OCCUPANTS: 65					
No OF MALES: 33			No OF FEMALES: 33		
	REQD	PROVIDED		REQD	PROVIDED
TLTS 1:125	1	1	TLTS 1:65	1	1
URINALS-67%	[1]	2			
LAVS 1:200	1	1	LAVS 1:200	1	1
TOTAL FIXTURES	2	4		2	2
UNISEX REQUIREMENTS (1109.2.1): (1 FOR # OF FIXTURES >6)			N/A REQUIRED; 1 PROVIDED		
1:500 EWC's			REQUIRED 1; PROVIDED BOTTLED WATER*		

* THE CITY OF WAELDER GRANTED AN EXEMPTION ALLOWING THE BUILDING TO PROVIDE BOTTLED WATER IN LIEU OF ELECTRIC WATER COOLERS

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JUSTICE OF THE PEACE PRECINCT 3 BUILDING

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DATE ISSUED:
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PROJECT NUMBER:
872-1118

PLAN NORTH / TRUE NORTH

SHEET NAME
CODE REVIEW

SHEET NUMBER
G2.1

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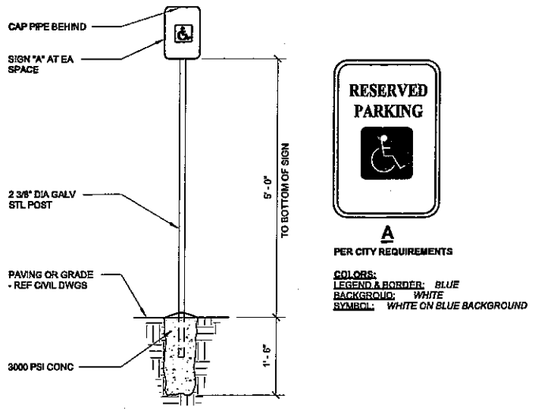
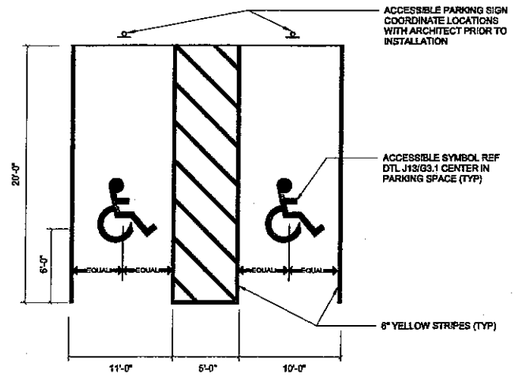


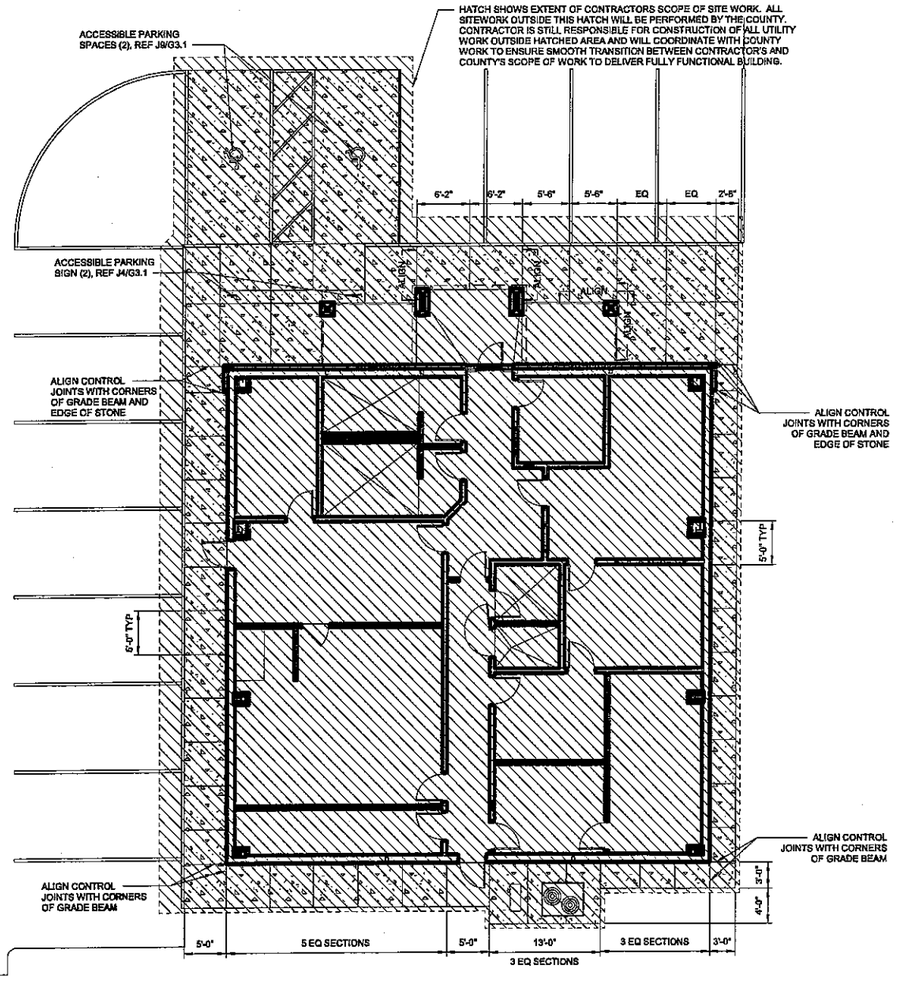
J4 ACCESSIBLE PARKING SIGN
3/4" = 1'-0"



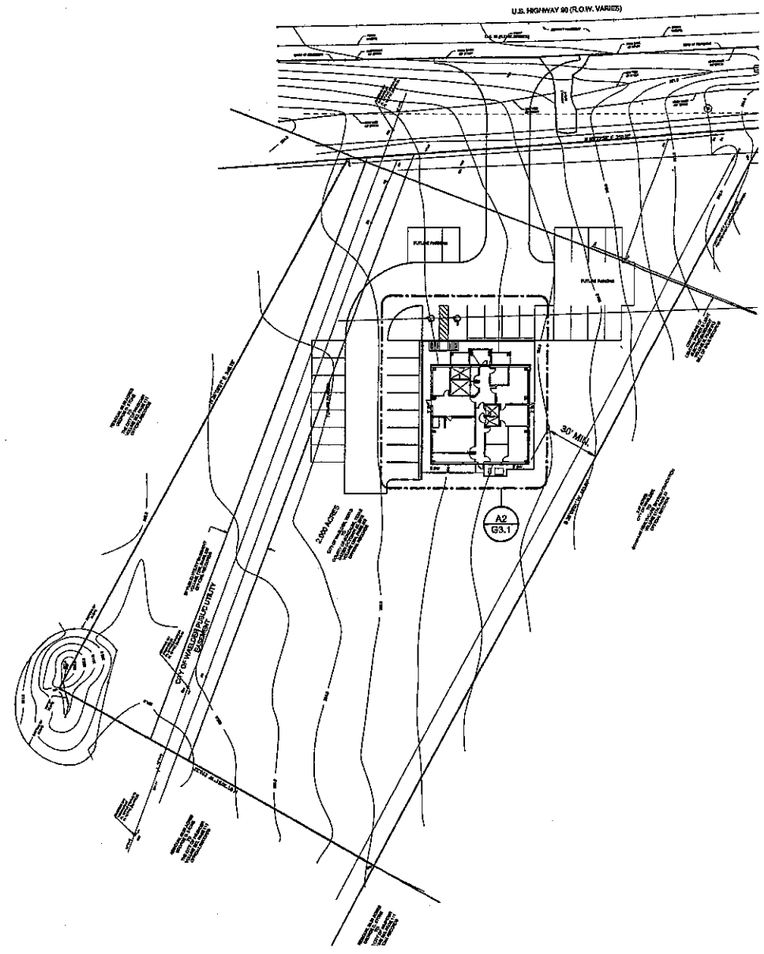
J9 ACCESSIBLE PARKING SPACE DETAIL
3/4" = 1'-0"

NOTE: GRID FOR LAYOUT PURPOSES ONLY.

J13 ACCESSIBLE SYMBOL DETAIL
3/4" = 1'-0"



A2 ENLARGED ARCHITECTURAL SITE PLAN
1/8" = 1'-0"



A7 ARCHITECTURAL SITE PLAN
1" = 40'-0"

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PLAN NORTH
TRUE NORTH

SHEET NAME
ARCHITECTURAL SITE PLAN

SHEET NUMBER
G3.1

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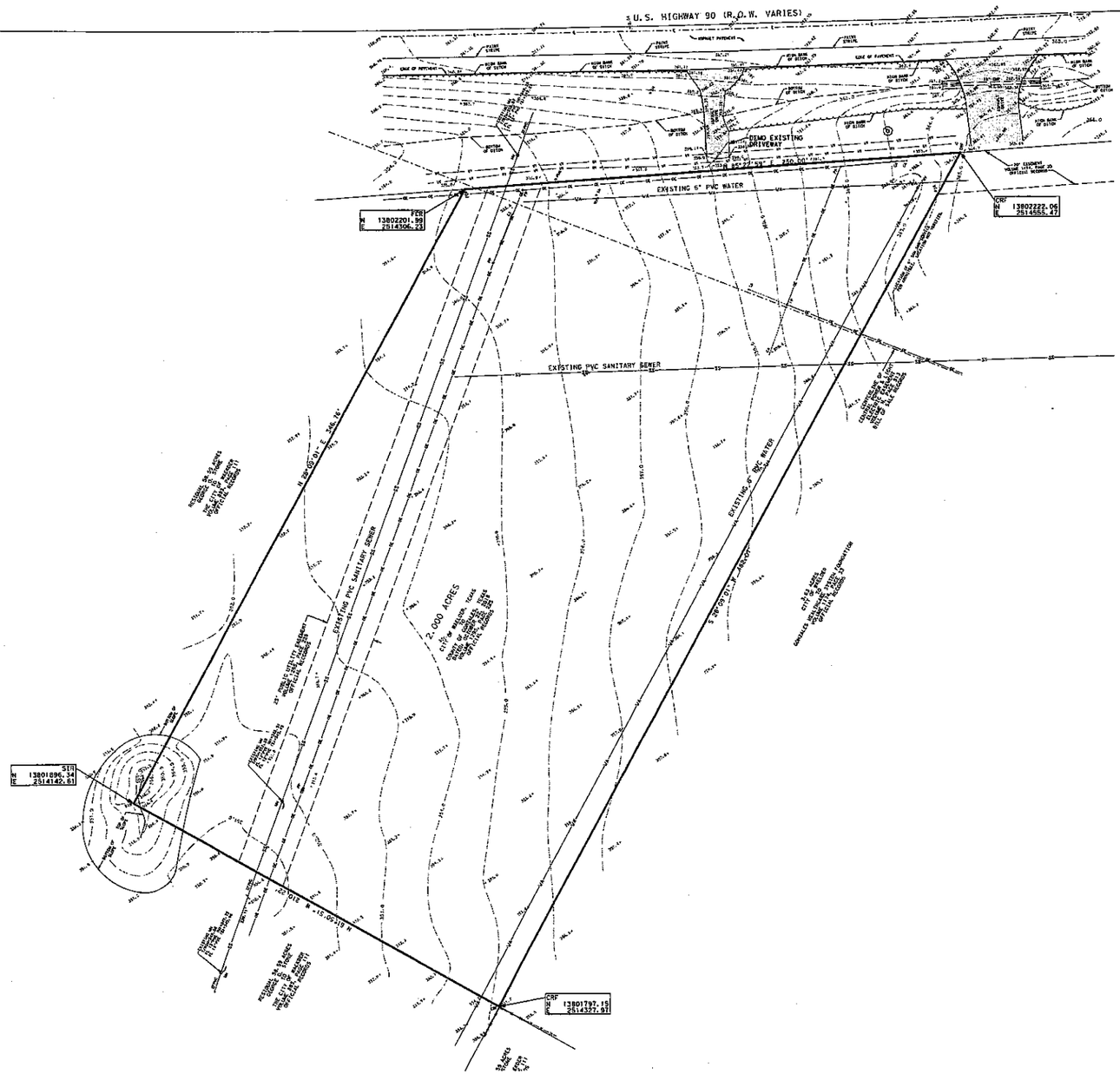

LEGEND

CRF	• FOUND 5/8 INCH DIAMETER IRON ROD WITH YELLOW PLASTIC CAP STAMPED "4438"
FCR	• FOUND 5/8 INCH DIAMETER IRON ROD WITH RED PLASTIC CAP
FIR	• FOUND 5/8 INCH DIAMETER IRON ROD
SIR	• SET 5/8 INCH DIAMETER IRON ROD WITH YELLOW PLASTIC CAP STAMPED "CIVILCORP"
℄	• CENTERLINE
CO	• CLEAN OUT
GA	• GUY ANCHOR
MH	• MANHOLE
PMK	• PHONE MARKER
PP	• POWER POLE
SN	• SIGN
WV	• WATER VALVE
-xx-	• EXISTING FENCE
— OE —	OVERHEAD ELECTRIC LINE
— UT —	UNDERGROUND TELEPHONE LINE
	DITCH CENTERLINE
	DITCH HIGH BANK
— WA —	WATER LINE
— SS —	SANITARY SEWER LINE
	EASEMENT

NOTE:

THE REFERENCED IS SUBJECT TO:

1. THIS SURVEY WAS PERFORMED WITHOUT THE AID OF A TITLE COMMITMENT. THERE MAY BE EASEMENTS OR OTHER MATTERS NOT SHOWN THAT MAY AFFECT THE SUBJECT PROPERTY.
2. BEARINGS ARE BASED ON BEARINGS OF RECORD AS RECORDED IN VOLUME 1295, PAGE 225 OFFICIAL RECORDS OF GONZALES COUNTY, TEXAS.

CIVILCORP, LLC
FIRM REGISTRATION NUMBER: 10283

STATE OF TEXAS
RANDY P. JANAK
90185
LICENSED
PROFESSIONAL ENGINEER

NAME: _____ PE
DATE: 3/28/2019

SCALE IN FEET
0 30 60 90

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BRADLEY WADE KOCUREK
REGISTERED ARCHITECT
REGISTRATION NO. 22147
STATE OF TEXAS

Final Plans for Bidding and Construction

JUSTICE OF THE PEACE PRECINCT 3 BUILDING
GONZALES COUNTY

1812 E US-90, WAELDER, TX

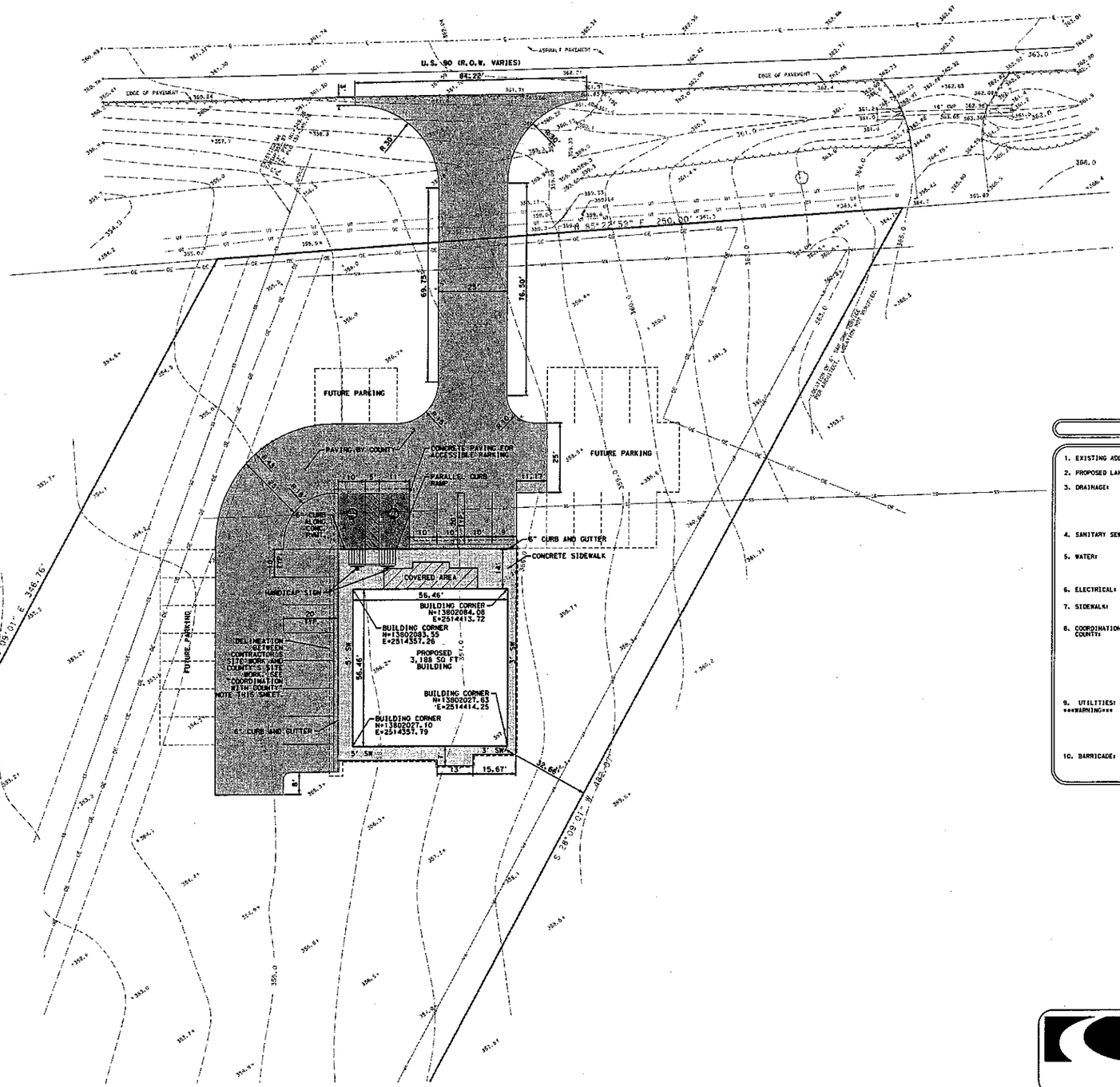
DATE ISSUED:
March 28, 2019

PROJECT NUMBER:
872-1118

PLAN NORTH TRUE NORTH

SHEET NAME
Existing Conditions

SHEET NUMBER
C1.0



LEGEND

- 4" THK CONCRETE SIDEWALK
- 5" THK CONCRETE PAVEMENT
- PAVING BY COUNTY

SITE NOTES

1. EXISTING ADDRESS:	1812 E U.S. HIGHWAY 90
2. PROPOSED LAND USE:	COMMERCIAL (GOVERNMENT OFFICES)
3. DRAINAGE:	PARKING / BUILDING AREA - PROPOSED OVERLAND FLOW TO ONSITE DITCHES. NORTHERN PORTION OF SITE WILL DRAIN TO U.S. 90 R.O.W. DITCH VIA PROPOSED ONSITE DITCHES. SOUTHERN AND EASTERN PORTION OF SITE WILL DRAIN TO PROPOSED ONSITE DITCHES, WHICH WILL FLOW SOUTH OF THE PROPOSED BUILDING AND TIE INTO EXISTING GRADE.
4. SANITARY SEWER:	CONNECT TO EXISTING SEWER LINE ALONG THE WESTERN SIDE OF THE PROPERTY.
5. WATER:	CONNECT TO EXISTING WATERLINE ALONG THE EASTERN SIDE OF THE PROPERTY. TESTING AND CHLORINATION OF PROPOSED WATERLINES SHALL BE PERFORMED ACCORDING TO THE CITY OF WAELDER AND STATE SPECIFICATIONS.
6. ELECTRICAL:	REFER TO MEP PLANS FOR PROPOSED ELECTRICAL SERVICE.
7. SIDEWALK:	REFER TO ARCHITECTURAL SHEETS FOR SIDEWALK CONTROL JOINT LOCATIONS.
8. COORDINATION WITH COUNTY:	CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING THE BUILDING PAD, CONCRETE FLATWORK, AND SITE WORK A MINIMUM DISTANCE BEYOND THE EDGE OF FLATWORK, AS DELINEATED ON THIS SHEET AND AS LISTED BELOW. - 18" BEYOND THE EDGE OF THE GUTTER - 18" BEYOND THE EDGE OF CONCRETE ADA SPACES / ACCESS AISLE - 6" BEYOND SIDEWALK TYING INTO NATURAL GROUND THE COUNTY WILL COMPLETE THE REMAINDER OF THE SITEWORK. CONTRACTOR TO COORDINATE CONSTRUCTION SCHEDULE WITH GONZALES COUNTY.
9. UTILITIES: ***WARNING***	THESE PLANS DO NOT INDICATE THE LOCATION OF ALL THE EXISTING UTILITY LINES IN THE AREA. ADDITIONAL BURIED AND OVERHEAD UTILITY LINES MAY BE LOCATED ON AND ADJACENT TO THE PROJECT SITE. THE CONTRACTOR SHALL CONTACT 811 PRIOR TO EXCAVATING. ANY CONFLICTS BETWEEN THE PROPOSED IMPROVEMENTS AND EXISTING UTILITIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
10. BARRICADE:	CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES WHEN WORKING WITHIN PUBLIC STREET RIGHT-OF-WAY.

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JUSTICE OF THE PEACE PRECINCT 3 BUILDING

GONZALES COUNTY

1812 E US-90, WAELDER, TX

DATE ISSUED:
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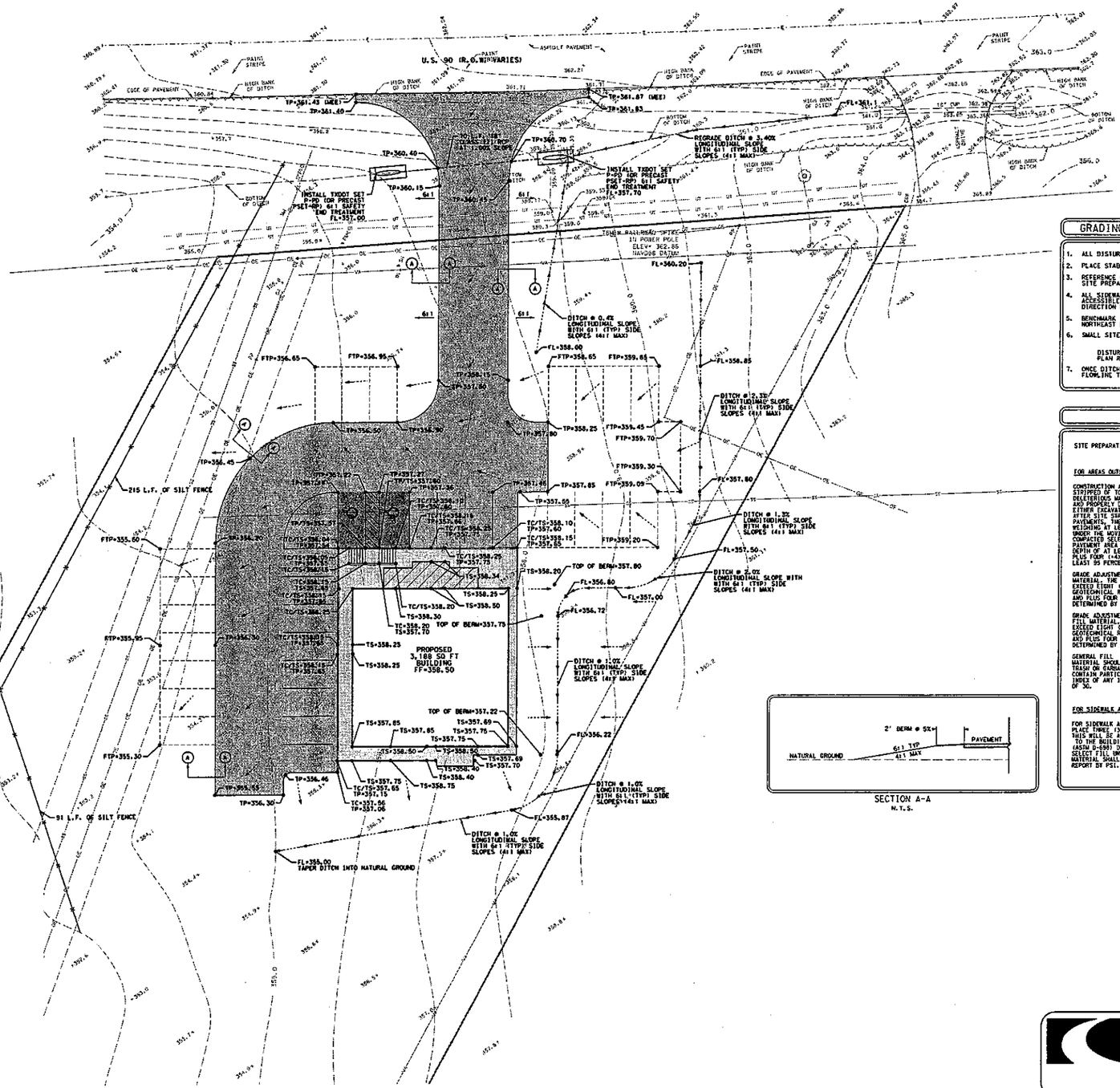
PROJECT NUMBER:
872-1116

SHEET NAME
Site Plan

SHEET NUMBER
C2.0



LEGEND
TP - TOP OF PAVEMENT
TC - TOP OF CURB
TS - TOP OF SIDEWALK
FG - FINISHED GRADE
FL - FLOWLINE
FTP - FUTURE TOP OF PAVEMENT

GRADING/EROSION AND SEDIMENTATION CONTROL NOTES

1. ALL DISTURBED AREAS ARE TO BE SEEDED OR SODDED AS PER OWNER.
2. PLACE STABILIZED CONSTRUCTION ENTRANCE PER TXDOT STANDARD EC(3)-93.
3. REFERENCE GEOTECHNICAL REPORT BY PSI FOR ADDITIONAL SITE PREPARATION AND FILL PLACEMENT REQUIREMENTS.
4. ALL SIDEWALKS AND RAMPS TO BE IN ACCORDANCE WITH CURRENT TAS REQUIREMENTS. ACCESSIBLE PARKING SPACES AND AISLES TO HAVE A MAX 2% SLOPE IN ALL DIRECTION PER TAS REQUIREMENTS. ALL SIDEWALKS TO HAVE MAXIMUM CROSS-SLOPE OF 2%
5. BENCHMARK INFO: RAILROAD SPIKE IN POWER POLE NEAR NORTHEAST PROPERTY CORNER; ELEV 362.86 (NAVD88 DATUM)
6. SMALL SITE - STORM WATER COMPLIANCE

   DISTURBED AREA IS LESS THAN ONE ACRE. NO STORM WATER POLLUTION PREVENTION PLAN REQUIRED.
7. ONCE DITCHES ARE FINAL GRADED, PLACE A MINIMUM OF TWO ROWS OF SOD ALONG DITCH FLOWLINE TO REDUCE EROSION.

SITE PREPARATION NOTES

SITE PREPARATION SHALL BE PER GEOTECHNICAL REPORT BY PSI DATED JANUARY 29, 2019.

FOR AREAS OUTSIDE BUILDING PAD

CONSTRUCTION AREAS OUTSIDE OF THE BUILDING PAD AREA SHOULD BE STRIPPED OF TOPSOIL, VEGETATION, ROOTS, LOOSE OR SOFT SOILS, AND ANY OTHER DELETERIOUS MATERIALS. THE STRIPPED MATERIALS SHOULD BE REMOVED FROM THE SITE AND PROPERLY DISPOSED. UPON COMPLETION OF STRIPPING OPERATIONS, THE SITE MAY BE EITHER EXCAVATED OR FILLED AS NECESSARY TO ACHIEVE THE PROPOSED SITE ELEVATIONS. AFTER SITE STRIPPING AND EXCAVATION AND PRIOR TO PLACEMENT OF ANY FILL MATERIALS OR PAVEMENTS, THE EXPOSED SUBGRADE SHOULD BE PROOF-ROLLED WITH RUBBER-TIRED VEHICLE WEIGHING AT LEAST 20 TONS. SOILS THAT ARE OBSERVED TO RUT OR DEFLECT EXCESSIVELY UNDER THE MOVING LOAD SHOULD BE REMOVED AND MAY BE REPLACED WITH EITHER PROPERLY COMPACTED SELECT OR GENERAL FILL MATERIALS. AFTER PROOFROLLING, FOR AREAS UNDER PAVEMENT AREA AND 2' BEYOND EDGE, THE SUBGRADE SOILS SHOULD BE SCARIFIED TO A DEPTH OF AT LEAST SIX (6) INCHES, MOISTURE CONDITIONED TO BETWEEN OPTIMUM AND PLUS FOUR (+4) PERCENTAGE POINTS OF THE OPTIMUM CONTENT, AND COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698.

GRADE ADJUSTMENTS IN PAVEMENT AREAS CAN BE MADE USING GENERAL FILL MATERIAL. THE FILL MATERIALS SHOULD BE PLACED ON PREPARED SURFACES IN LIFTS NOT TO EXCEED EIGHT (8) INCHES LOOSE MEASURE, LOW SIX (6) INCHES COMPACTED MEASURE), PER GEOTECHNICAL REPORT BY PSI. FILL MATERIALS SHOULD BE MOISTURE CONTENT BETWEEN OPTIMUM AND PLUS FOUR (+4) AND COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698.

GRADE ADJUSTMENTS OUTSIDE OF THE BUILDING PAD AND PAVEMENT AREAS CAN BE MADE USING GENERAL FILL MATERIAL. THE FILL MATERIALS SHOULD BE PLACED ON PREPARED SURFACES IN LIFTS NOT TO EXCEED EIGHT (8) INCHES LOOSE MEASURE, FOR SIX (6) INCHES COMPACTED MEASURE). PER GEOTECHNICAL REPORT BY PSI, FILL MATERIALS SHOULD BE MOISTURE CONTENT BETWEEN OPTIMUM AND PLUS FOUR (+4) AND COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 FOR FILL MATERIAL WITH A PI>25.

GENERAL FILL
MATERIAL SHOULD BE CLEAN AND FREE OF ANY VEGETATION, ROOTS, ORGANIC MATERIALS, TRASH OR GARBAGE, CONSTRUCTION DEBRIS, OR OTHER DELETERIOUS MATERIALS AND SHOULD CONTAIN PARTICLES NO LARGER THAN FOUR (4) INCHES IN MAXIMUM DIMENSION. THE PLASTICITY INDEX OF ANY IMPORTED GENERAL FILL MATERIAL SHOULD BE LIMITED TO A MAXIMUM OF 30.

FOR SIDEWALK AREAS ADJACENT TO THE BUILDING

FOR SIDEWALK ADJACENT TO THE BUILDING AND AS PER THE BUILDING PAD CONSTRUCTION, PLACE THREE (3) FEET OF COMPACTED (MAX 8" LOOSE LIFTS) SELECT FILL BELOW THE SIDEWALK. THIS WILL BE AN EXTENSION OF THE BUILDING PAD. THE SELECT FILL IN SIDEWALK AREAS ADJACENT TO THE BUILDING SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM STANDARD PROCTOR (ASTM D-698) DRY DENSITY AT -1 TO +3% OF OPTIMUM MOISTURE CONTENT. THE PI OF THE SELECT FILL UNDER THE SIDEWALK SHOULD BE IN THE RANGE OF 7 TO 20 AND THIS MATERIAL SHALL CONTAIN AT LEAST 35% PASSING THE #200 SIEVE AS PER THE GEOTECHNICAL REPORT BY PSI.

SECTION A-A
N.T.S.

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LICENSED
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SCALE IN FEET
0 20 40 60

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GONZALES COUNTY

1812 E US-90, WAELDER, TX

DATE ISSUED:
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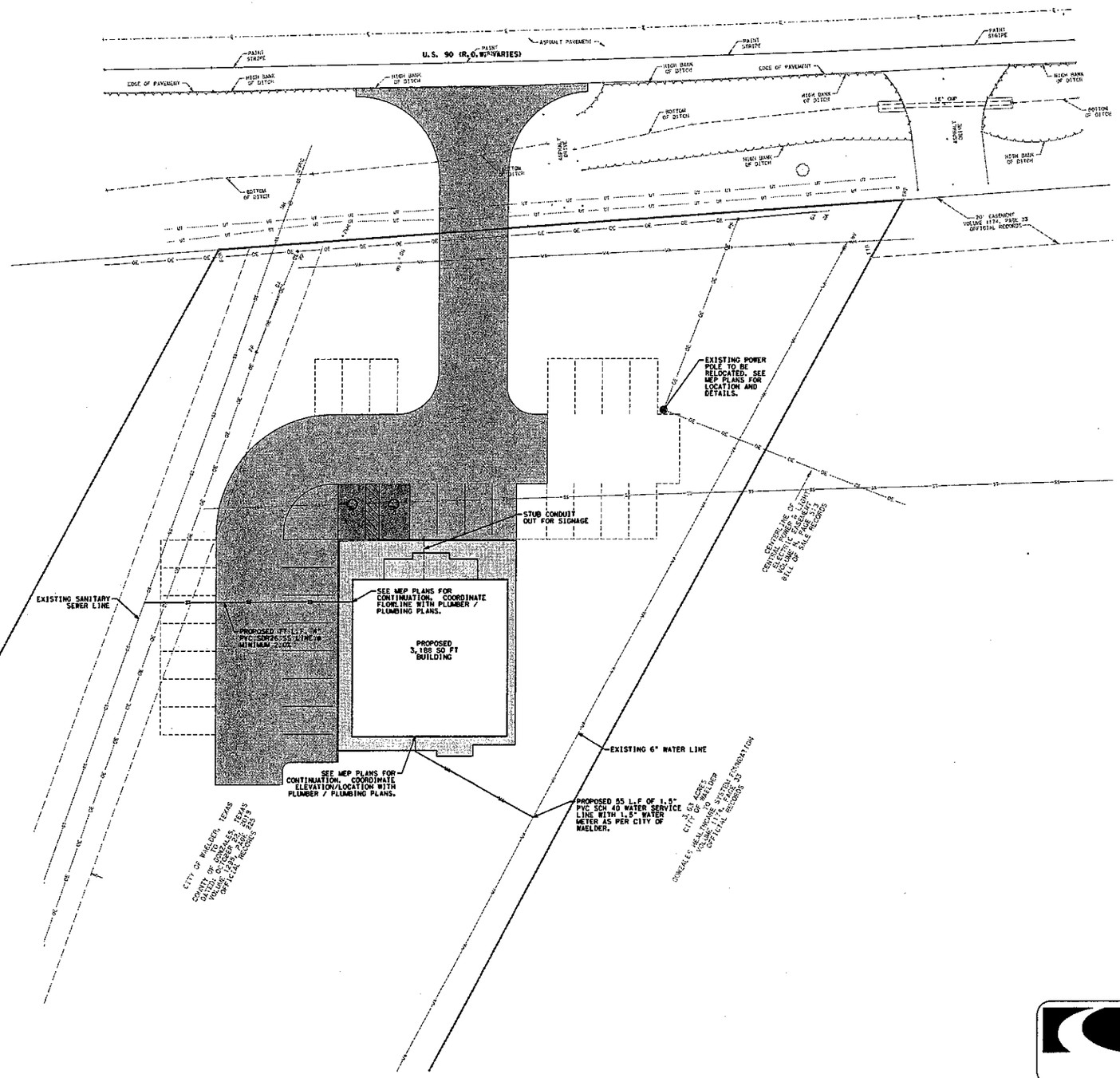
PROJECT NUMBER:
872-1118

PLAN NORTH / TRUE NORTH

SHEET NAME
Grading Plan

SHEET NUMBER
C3.0



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GONZALES COUNTY

1512 E US-90, WAELDER, TX

DATE ISSUED:
March 28, 2019

PROJECT NUMBER:
872-1118

SHEET NAME
Utility Plan

SHEET NUMBER
C4.0

GENERAL NOTES

1. VERIFY HORIZONTAL AND VERTICAL CONTROL PRIOR TO ANY CONSTRUCTION AND REPORT CONFLICTS TO ENGINEER IMMEDIATELY.

2. THE LOCATION AND ELEVATIONS OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE IN THE FIELD THE EXACT LOCATION OF ALL EXISTING UTILITIES, NATURAL GROUND ELEVATIONS, PIPELINES, AND VERIFY TOPOGRAPHIC INFORMATION BEFORE COMMENCING ANY WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES CAUSED BY HIS FAILURE TO LOCATE AND MAINTAIN THESE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF CONFLICTS FOUND.

3. PRIOR TO CONSTRUCTION, OBTAIN ALL NECESSARY CONSTRUCTION PERMITS REQUIRED FROM GOVERNING AGENCIES.

4. OBTAIN ALL PERMITS BY REQUIRED BY REGULATION FOR FLOOD PLAIN MANAGEMENT PRIOR TO STARTING ANY CONSTRUCTION ON THIS PROJECT.

5. COMPLY WITH LATEST OSHA AND STATE OF TEXAS REQUIREMENTS FOR EXCAVATION, TRENCHING AND SHORING.

6. EXISTING PAVEMENT, CURBS, SIDEWALKS AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED AT CONTRACTOR'S EXPENSE TO APPLICABLE AGENCY STANDARDS AND/OR BETTER CONDITION.

7. PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (TEXAS M.U.T.C.D. MOST RECENT EDITION AS REVISED) DURING CONSTRUCTION.

8. GRADE ALL AREAS WITHIN THE PROJECT LIMITS TO INSURE POSITIVE DRAINAGE. ALL DISTURBED GRASS AREAS SHALL BE EITHER SEEDED OR SODDED TO MATCH EXISTING CONDITIONS IN ACCORDANCE WITH PROJECT SPECIFICATIONS. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. MAINTAIN GRASS OR SOD UNTIL NEW GROWTH IS ESTABLISHED.

9. TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION WHICH HAVE BEEN DESIGNATED TO REMAIN.

10. PROVIDE TEMPORARY MEASURES TO CONTROL STORM WATER RUN-OFF DURING CONSTRUCTION AS REQUIRED TO MINIMIZE EROSION.

11. GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, AND PERSONS IN CHARGE OF PUBLIC AND PRIVATE UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO STARTING WORK.

12. KEEP TRENCHES DRY AT ALL TIMES, AND KEEP TRENCHES, PIPE BEDDING, AND BACKFILL FREE OF DEBRIS.

13. MAINTAIN 6-INCH MINIMUM VERTICAL CLEARANCE AT PIPE CROSSINGS UNLESS OTHERWISE SPECIFIED.

14. INSTALL SEWERS FROM LOW END IN AN UPSTREAM DIRECTION. CONTRACTOR TO VERIFY CLEARANCES WITH ALL UNDERGROUND OBSTRUCTIONS BEFORE LAYING ANY PIPE.

15. ALL UTILITY CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH LATEST EDITION OF ACI-318.

16. ALL CONCRETE USED FOR UTILITY CONSTRUCTION SHALL HAVE A 28 DAY MINIMUM STRENGTH OF 3000 PSI.

17. ALL CONCRETE REINFORCEMENT USED FOR PAVING AND UTILITY CONSTRUCTION SHALL BE GRADE 60 IN ACCORDANCE WITH ASTM A-615.

18. CEMENT STABILIZED SAND SHALL MEET OR EXCEED A PERFORMANCE SPECIFICATION MINIMUM 100 PSI COMPRESSION TEST.

19. A DURABLE METAL WIRE SHALL BE CONCURRENTLY INSTALLED OR OTHER MEANS PROVIDED FOR DETECTION PURPOSES ON PVC OR OTHER NON-FERROUS PIPE.

20. COMPLY WITH E.P.A. REQUIREMENTS FOR PROVIDING A STORM WATER POLLUTION PREVENTION PLAN DURING CONSTRUCTION.

21. COMPLY WITH APPLICABLE T.A.S. REQUIREMENTS.

22. CONTRACTOR FOR THE PROJECT SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO THE EXISTING PUBLIC AND/OR PRIVATE UTILITY LINES DURING CONSTRUCTION. ALL DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH UTILITY OWNER'S SPECIFICATIONS WITH NO COST TO THE OWNER.

23. ALL SIGNS, POSTS, MAILBOXES, CULVERTS, PAVEMENT, DRIVEWAYS, SIDEWALKS, FENCES, ETC DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN THAT EXISTING PRIOR TO START OF CONSTRUCTION.

PAVING AND GRADING CONSTRUCTION NOTES

1. PAVING MATERIALS AND PROCEDURES TO BE IN CONFORMANCE WITH THE SOILS REPORT BY PSI INCORPORATED DATED JANUARY 29, 2019, PSI PROJECT NO. 0312-1745, TxDOT SPECIFICATIONS, AND DETAILS IN PLANS.

2. CONSTRUCTION AREAS ARE TO BE STRIPPED OF TOP SOIL TO A DEPTH AS INDICATED BY THE SOILS REPORT. TOP SOIL, RUBBISH, DEBRIS, AND OTHER OBJECTIONABLE MATERIALS ARE TO BE DISPOSED OF AT A LEGAL DISPOSAL LOCATION OFF THE PROJECT SITE BY THE CONTRACTOR OR AS APPROVED BY THE OWNER.

3. EXCAVATE AND FILL THE SITE AS REQUIRED TO OBTAIN FINISHED ELEVATIONS AS SHOWN ON THE DESIGN PLANS. COMPACT SELECT BACKFILL MATERIAL TO 95% OF MAXIMUM DRY DENSITY DETERMINED BY ASTM D-698 AND IN CONFORMANCE WITH THE ABOVE REFERENCED SOILS REPORT REQUIREMENTS. ALL EARTHWORK REQUIREMENTS OF THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT MUST BE MET.

4. VERIFY PAVEMENT ELEVATIONS AND OBTAIN OWNERS' APPROVAL PRIOR TO PLACEMENT OF PAVEMENT. CONTRACTOR OR OWNER SHALL NOTIFY ENGINEER IMMEDIATELY WITH ANY CONFLICTS OR DISCREPANCIES NOTED. IF NO VERIFICATION OR APPROVAL IS OBTAINED, CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR CONSTRUCTED AREAS.

WASTEWATER CONSTRUCTION NOTES

1. SANITARY GRAVITY SEWERS SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE LATEST CITY OF WAELDER STANDARD SPECIFICATIONS FOR SEWER CONSTRUCTION AND TESTED AS SPECIFIED IN THE CITY TEST PROCEDURE, INCLUDING ALL AMENDMENTS AND REVISIONS THERETO. BEDDING AND BACKFILL FOR SANITARY SEWERS SHALL BE PLACED IN ACCORDANCE WITH CITY OF WAELDER STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.

2. SANITARY SEWER MANHOLE RIMS IN UNPAVED AREAS SHALL BE 3-INCHES ABOVE NATURAL GROUND. BACKFILL SHALL BE ADDED AND SLOPED AWAY FROM THE MANHOLE RIM FOR STORM WATER DRAINAGE.

3. SDR 26 PVC PIPE USES "FULL BODIED" SDR 26 PVC FITTINGS OR D.I.P. FITTINGS WITH APPROPRIATE ADAPTERS. SDR 26 PVC PIPE SHALL HAVE A CELL CLASSIFICATION OF 12454-B AS DEFINED IN ASTM D1784.

4. SEPARATION DISTANCES FOR ALL SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL BE GOVERNED BY THE "TEXAS COMMISSION ON ENVIRONMENTAL QUALITY RULES AND REGULATIONS FOR SEWERAGE SYSTEMS," CHAPTER 217, LATEST PRINTING.

5. ALL SANITARY SEWERS CROSSING WATER LINES WITHIN 6-INCHES TO 9-FEET CLEARANCE SHALL HAVE A MINIMUM 18-FOOT JOINT OF D.I.P., THK, CL. 52 OR PVC DR-18 CENTERED AT THE WATER LINE. WHEN WATER LINE IS BELOW SANITARY SEWER, CONTRACTOR SHALL PROVIDE FOR A MINIMUM 2-FOOT SEPARATION.

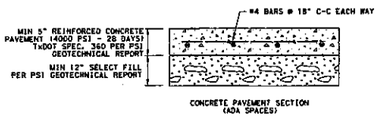
6. PROVIDE FOR A MINIMUM HORIZONTAL CLEARANCE OF 9-FEET BETWEEN WATER LINES AND SANITARY SEWER MANHOLES AND LINES. CONTRACTOR IS TO ENCASE WATER MAIN FOR A DISTANCE OF 10'-0" WHERE 9'-0" SEPARATION BETWEEN OUTSIDE OF WATER MAIN AND OUTSIDE OF MANHOLE CANNOT BE OBTAINED.

7. CONTRACTOR SHALL MAINTAIN WASTEWATER SERVICE AT ALL TIMES.

WATER CONSTRUCTION NOTES

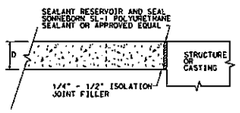
1. ALL WATER MAIN, MATERIALS, METERS, APPURTENANCES, CONSTRUCTION, AND TESTING SHALL CONFORM TO THE LATEST STATE OF TEXAS REQUIREMENTS AND IN ACCORDANCE WITH THE CITY OF WAELDER'S STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.

2. SEPARATION DISTANCES FOR ALL WATER MAIN AND SANITARY SEWER MAIN CONSTRUCTION SHALL BE GOVERNED BY THE "TEXAS COMMISSION ON ENVIRONMENTAL QUALITY RULES AND REGULATIONS FOR DESIGN CRITERIA FOR PUBLIC DRINKING WATER," CHAPTER 290, LATEST PRINTING.

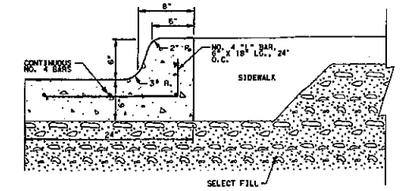


CONCRETE PAVEMENT SECTION (ADA SPACES)

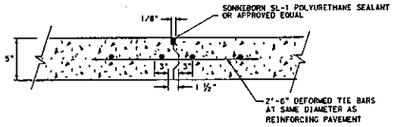
PAVEMENT SECTION



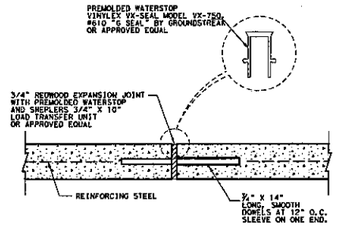
ISOLATION JOINT



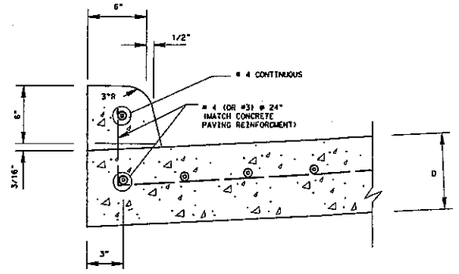
CONCRETE CURB & GUTTER



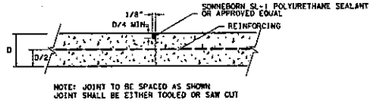
CONSTRUCTION JOINT



EXPANSION JOINT (EJ)

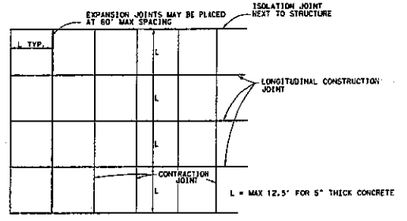


CONCRETE CURB FOR CONCRETE PVMT



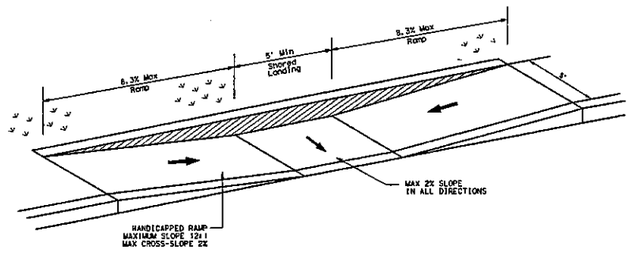
NOTE: JOINT TO BE SPACED AS SHOWN
JOINT SHALL BE EITHER TOOLED OR SAW CUT

CONTRACTION JOINT (CJ)



CONTRACTOR SHALL SUBMIT JOINTING LAYOUT TO ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

TYPICAL PAVING JOINT DETAIL



PARALLEL CURB RAMP

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REGISTRATION NO. 22147
STATE OF TEXAS

Final Plans for Bidding and Construction

JUSTICE OF THE PEACE PRECINCT 3 BUILDING
GONZALES COUNTY
1612 E US-90, WAELDER, TX

DATE ISSUED:
March 28, 2019

PROJECT NUMBER:
672-1118

PLAN NORTH | TRUE NORTH

SHEET NAME
General Notes and Paving Details

SHEET NUMBER
C5.0

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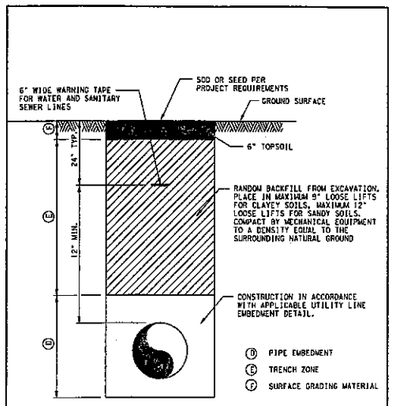


TRENCH ZONE BACKFILL DETAIL (NON-PAVED AREAS)

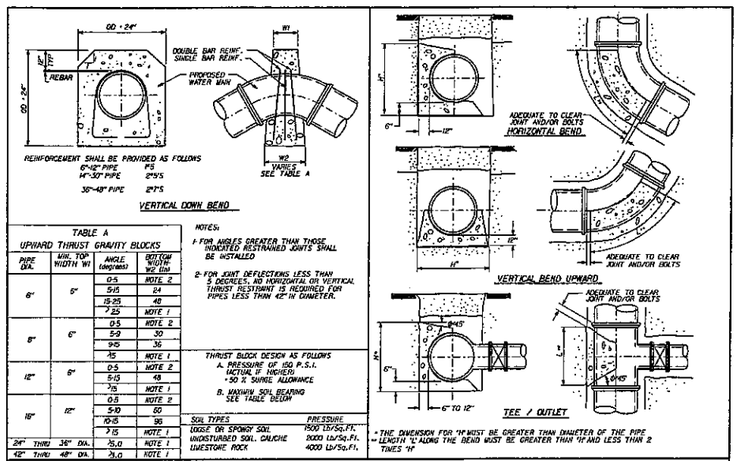


TABLE A
UPWARD THRUST GRAVITY BLOCKS

PIPE DIA.	MIN. TOP WIDTH W1	ANGLE (degrees)	BOTTOM WIDTH W2 (in)
6"	5"	0-5	NOTE 2
		5-15	24
		15-25	48
		25	NOTE 1
8"	6"	0-5	NOTE 2
		5-9	30
		9-15	36
		15	NOTE 1
12"	8"	0-5	NOTE 2
		5-13	48
		13	NOTE 1
16"	12"	0-5	NOTE 2
		5-10	60
		10-15	96
		15	NOTE 1
24" THRU 36" DIA.		15.0	NOTE 1
42" THRU 48" DIA.		25.0	NOTE 1

NOTES:
1- FOR ANGLES GREATER THAN THOSE INDICATED RESTRAINED JOINTS SHALL BE INSTALLED
2- FOR JOINT DEFLECTIONS LESS THAN 5 DEGREES, NO HORIZONTAL OR VERTICAL THRUST RESTRAINT IS REQUIRED FOR PIPES LESS THAN 42" IN DIAMETER.

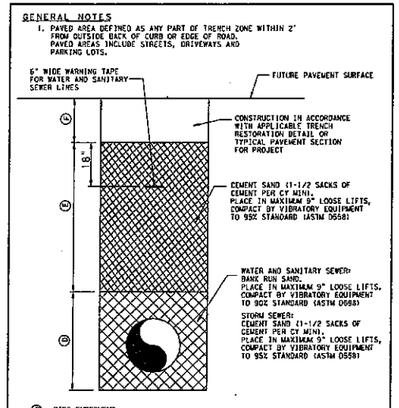
THRUST BLOCK DESIGN AS FOLLOWS
A. PRESSURE OF 150 P.S.I. (ACTUAL IF HIGHER) +50 P.S.I. SURGE ALLOWANCE
B. MAXIMUM SOIL BEARING SEE TABLE BELOW

SOIL TYPES	PRESSURE
LOOSE OR SPONGY SOIL	1500 LB/SQ.FT.
UNDISTURBED SOIL, CALICHE	3000 LB/SQ.FT.
LIMESTONE ROCK	4000 LB/SQ.FT.

* THE DIMENSION FOR "H" MUST BE GREATER THAN DIAMETER OF THE PIPE
** LENGTH "L" ALONG THE BEND MUST BE GREATER THAN "H" AND LESS THAN 2 TIMES "H"

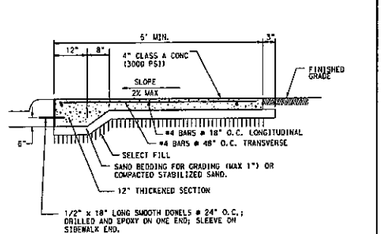
CONCRETE THRUST BLOCKING

GENERAL NOTES
1. PAVED AREA DEFINED AS ANY PART OF TRENCH ZONE WITHIN 2' FROM OUTSIDE BACK OF CURB OR EDGE OF ROAD. PAVED AREAS INCLUDE STREETS, DRIVEWAYS AND PARKING LOTS.

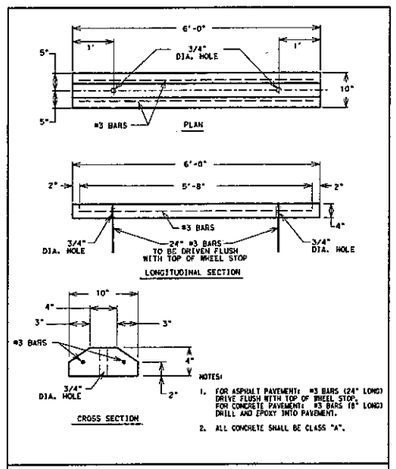


TRENCH ZONE BACKFILL DETAIL (PROPOSED PAVED OR EXISTING PAVED AREAS INSIDE PRIVATE PROPERTY)

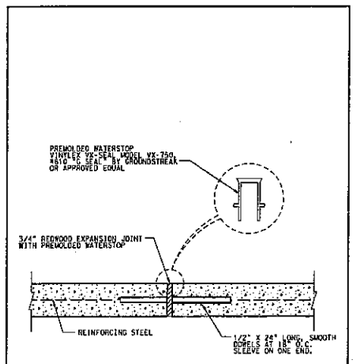
GENERAL NOTES
1. PROVIDE 1" DEEP OR 1/4" THE THICKNESS OF THE CONCRETE, TOOLED CONTRACTION JOINTS AT SPACING EQUAL TO SIDEWALK WIDTH.
2. PROVIDE EXPANSION JOINTS PER DETAIL AT DRIVEWAY RAMPS, PEDESTRIAN RAMPS AND AT 40' INTERVALS.
3. FINISH EXPOSED EDGES WITH 1/4" RADIUS.
4. ALL REBAR TO BE SET ON BAR CHAIRS. PLASTIC OR METAL BAR CHAIRS ARE ACCEPTABLE; NO BRICKS, BROKEN CONCRETE, ROCKS, ETC.



CONCRETE SIDEWALK (ADJACENT TO ST. CURB)

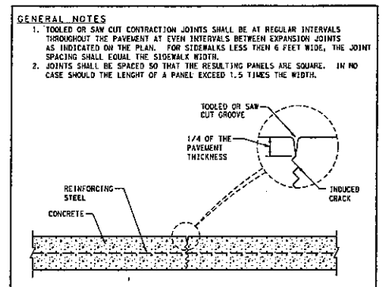


WHEEL STOP

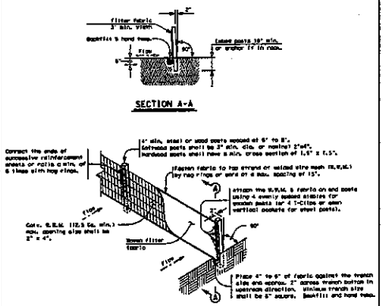


SIDEWALK EXPANSION JOINT DETAIL

GENERAL NOTES
1. TOOLED OR SAW CUT CONTRACTION JOINTS SHALL BE AT REGULAR INTERVALS THROUGHOUT THE PAVEMENT AT EVEN INTERVALS BETWEEN EXPANSION JOINTS AS INDICATED ON THE PLAN. FOR SIDEWALKS LESS THEN 6 FEET WIDE, THE JOINT SPACING SHALL EQUAL THE SIDEWALK WIDTH.
2. JOINTS SHALL BE SPACED SO THAT THE RESULTING PANELS ARE SQUARE. IN NO CASE SHOULD THE LENGHT OF A PANEL EXCEED 1.5 TIMES THE WIDTH.



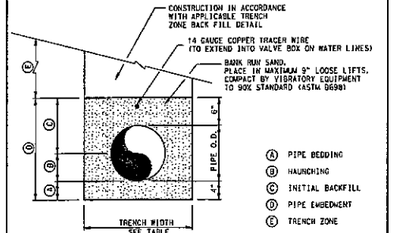
SIDEWALK TOOLED CONTRACTION JOINT DETAIL



SILT FENCE

TRENCH WIDTH TABLE

NOMINAL PIPE SIZE (INCHES)	MINIMUM TRENCH WIDTH	MAXIMUM TRENCH WIDTH
Less than 24"	O.D. + 12"	O.D. + 36"
24" to 30"	O.D. + 18"	O.D. + 42"
Greater than 30"	O.D. + 24"	O.D. + 48"



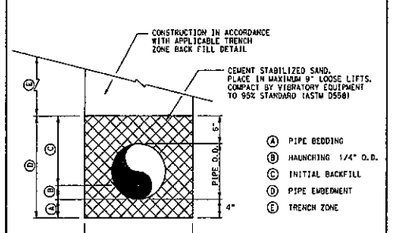
WATER
- TRACER WIRE TO BE ATTACHED TO PIPE (DUCT TAPE IS ACCEPTABLE).
- TRACER WIRE SPLICED w/DRYCON 63315 (DBSR)

SEWER
- 4" WIDE GREEN AND SILVER SANITARY SEWER CAUTION TAPE.

UTILITY LINE EMBEDMENT DETAIL (FOR WATER & SANITARY SEWER LINES)

TRENCH WIDTH TABLE

NOMINAL PIPE SIZE (INCHES)	MINIMUM TRENCH WIDTH	MAXIMUM TRENCH WIDTH
Less than 24"	O.D. + 12"	O.D. + 36"
24" to 30"	O.D. + 18"	O.D. + 42"
Greater than 30"	O.D. + 24"	O.D. + 48"



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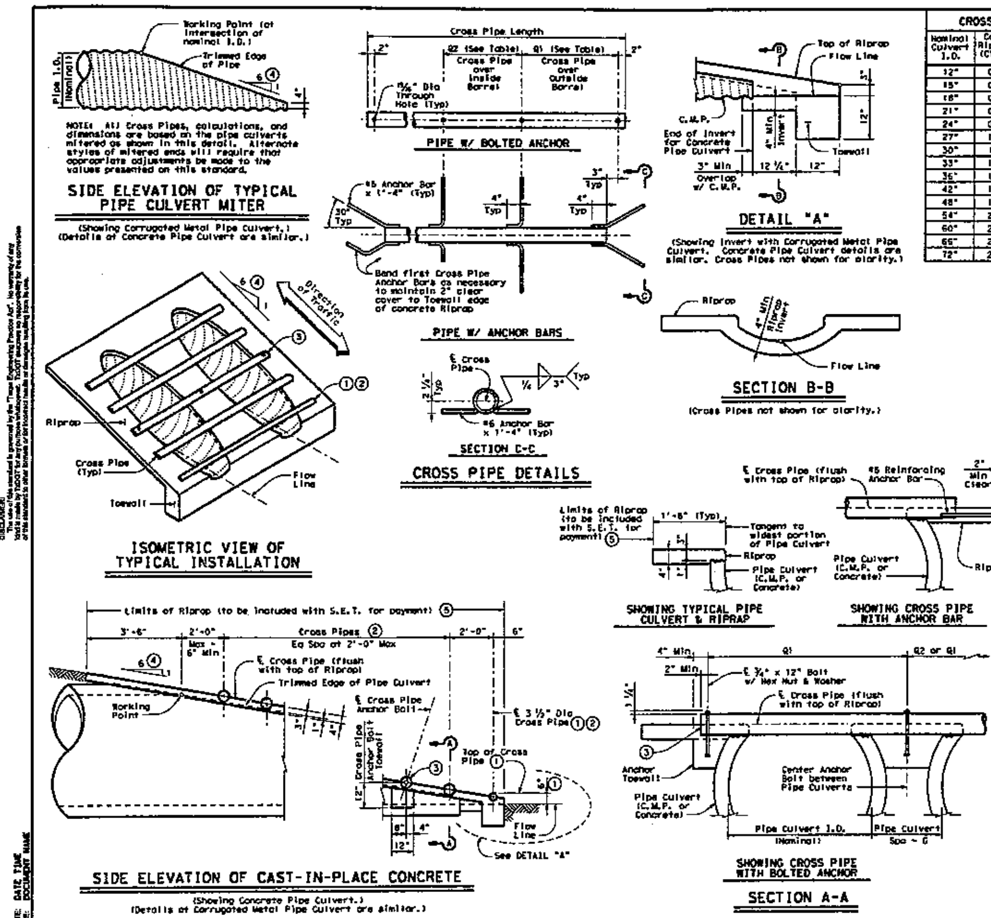


CROSS PIPE LENGTHS, REQUIRED PIPE SIZES, & RIPRAP QUANTITIES ②							
Nominal Culvert I.D.	Conc Riprap (CY) ⑥	Pipe Culvert Spa ~ G	Single Barrel ~ Q1	Multi-Barrel ~ Q1	Q2	Conditions for use of Cross Pipes	Cross Pipe Size
12"	0.6	9"	N/A	2'- 1"	1'- 9"	3 or more Pipe Culverts	3" Std (3.500" O.D.)
15"	0.7	11"	N/A	2'- 5"	2'- 2"		
18"	0.8	1'- 2"	N/A	2'-10"	2'- 8"		
21"	0.9	1'- 4"	N/A	3'- 2"	3'- 1"		
24"	0.9	1'- 7"	N/A	3'- 6"	3'- 7"		
27"	1.0	1'- 8"	N/A	3'-10"	3'-11"	3 or more Pipe Culverts	3 ½" Std (4.000" O.D.)
30"	1.1	1'-10"	N/A	4'- 2"	4'- 4"	2 or more Pipe Culverts	
33"	1.2	1'-11"	4'- 2"	4'- 5"	4'- 8"	All Pipe Culverts	
36"	1.3	2'- 1"	4'- 5"	4'- 9"	5'- 1"	All Pipe Culverts	4" Std (4.500" O.D.)
42"	1.5	2'- 4"	4'-11"	5'- 5"	5'-10"		
48"	1.7	2'- 7"	5'- 5"	6'- 0"	6'- 7"	All Pipe Culverts	5" Std (5.563" O.D.)
54"	2.0	3'- 0"	5'-11"	6'- 9"	7'- 6"		
60"	2.2	3'- 3"	6'- 5"	7'- 4"	8'- 3"		
66"	2.4	3'- 3"	6'-11"	7'-10"	8'- 9"		
72"	2.7	3'- 4"	7'- 5"	8'- 5"	9'- 4"		

① The proper installation of the first Cross Pipe is critical for vehicle safety. The top of the first Cross Pipe must be placed at no more than 6" above the flow line.

② Size of Cross Pipes, except the first bottom pipe, shall be as shown in the PIPE SIZE table. The first bottom pipe shall be 3 ½" Standard Pipe (4" O.D.).

③ The third Cross Pipe from the bottom of the Culvert shall always be installed using a bolted connection. Care shall be taken to ensure that Riprap concrete does not flow into the Cross Pipe so as to permit disassembly of the bolted connection to allow cleanout access. At the Contractor's option, all other Cross Pipes may also be installed using the bolted connection details.

④ Match Cross Slope as shown elsewhere in the plans. Cross Slope of 6:1 or flatter is required for vehicle safety.

⑤ Riprap placed beyond the limits shown will be paid as Concrete Riprap in accordance with Item 432, "Riprap".

⑥ Quantities shown are for one end of one reinforced Concrete Pipe Culvert. For multiple pipe culverts or for Corrugated Metal Pipe Culverts, quantities will need to be adjusted. Riprap quantities are for Contractor's information only.

GENERAL NOTES:

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

Safety End Treatments shown herein are intended for use in those installations where out of control vehicles are likely to traverse the openings approximately perpendicular to the Cross Pipes.

Riprap and all necessary inverts shall be Concrete Riprap conforming to the requirements of Item 432, "Riprap".

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.

Payment for riprap and toewall is included in the Price Bid for each Safety End Treatment.

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

Bolts and nuts shall conform to ASTM A307.

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

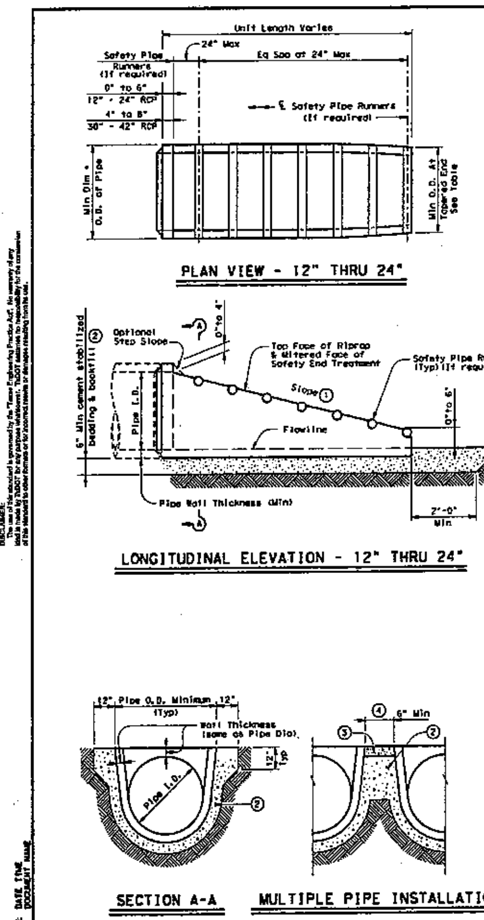
Texas Department of Transportation — Bridge Division Standard

SAFETY END TREATMENT

FOR 12" DIA TO 72" DIA PIPE CULVERTS

TYPE II ~ PARALLEL DRAINAGE

SETP-PD



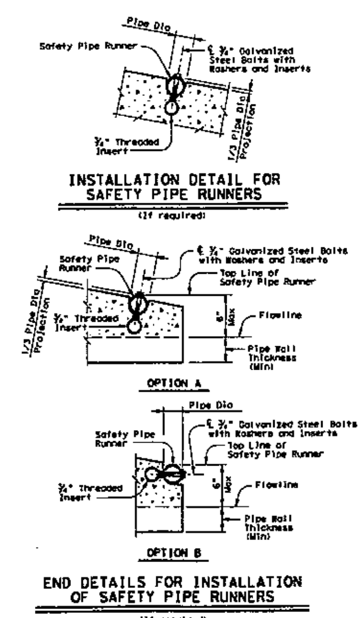
① Slope as shown elsewhere in the plans. Slope of 6:1 or flatter is required for vehicle safety.

② 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.

③ The top 4" of void between Precast End Treatments shall be filled with concrete Riprap and shall be considered subsidiary to Safety End Treatment.

④ Clear distance between pipes shall be adjusted to provide for the minimum distance between safety end treatments.

PIPE I.D.	MINIMUM WALL THICKNESS	MINIMUM O.D.	MIN O.D. AT TAPERED END	MIN REINF REQUIREMENTS (Sq In/ft of pipe)	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"	16"	16"	0.07 CIRC.	6:1	4'-0"	No	Yes, for >2 pipes	3" STD	3.500"	3.068"
15"	2 ¼"	19 ½"	19"	0.07 CIRC.	6:1	5'-8"	No	Yes, for >2 pipes	3" STD	3.500"	3.068"
18"	2 ½"	23"	21 ½"	0.07 CIRC.	6:1	7'-3"	No	Yes, for >2 pipes	3" STD	3.500"	3.068"
24"	3"	30"	27"	0.07 CIRC.	6:1	10'-6"	No	Yes, for >2 pipes	3" STD	3.500"	3.068"
30"	3 ½"	37"	31"	0.18 CIRC.	6:1	12'-1"	No	Yes	4" STD	4.500"	4.026"
36"	4"	44"	36"	0.19 ELIP.	6:1	15'-4"	Yes	Yes	4" STD	4.500"	4.026"
42"	4 ½"	51"	41 ½"	0.23 ELIP.	6:1	18'-7"	Yes	Yes	4" STD	4.500"	4.026"



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.

All precast concrete end sections shall be manufactured in accordance with Item "Reinforced Concrete Pipe" and in accordance with ASTM Specification C-76, Class III, Wall B for circular pipe.

Precast concrete end sections shall be provided with a spigot or bell end for compatibility to upstream or downstream end conditions with sufficient annular space to allow for mortar, cold applied asphalt joint compound or pre-formed plastic gasket material.

Methods of lifting shall be provided by the manufacturer for ease of loading, unloading and installation.

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-RP

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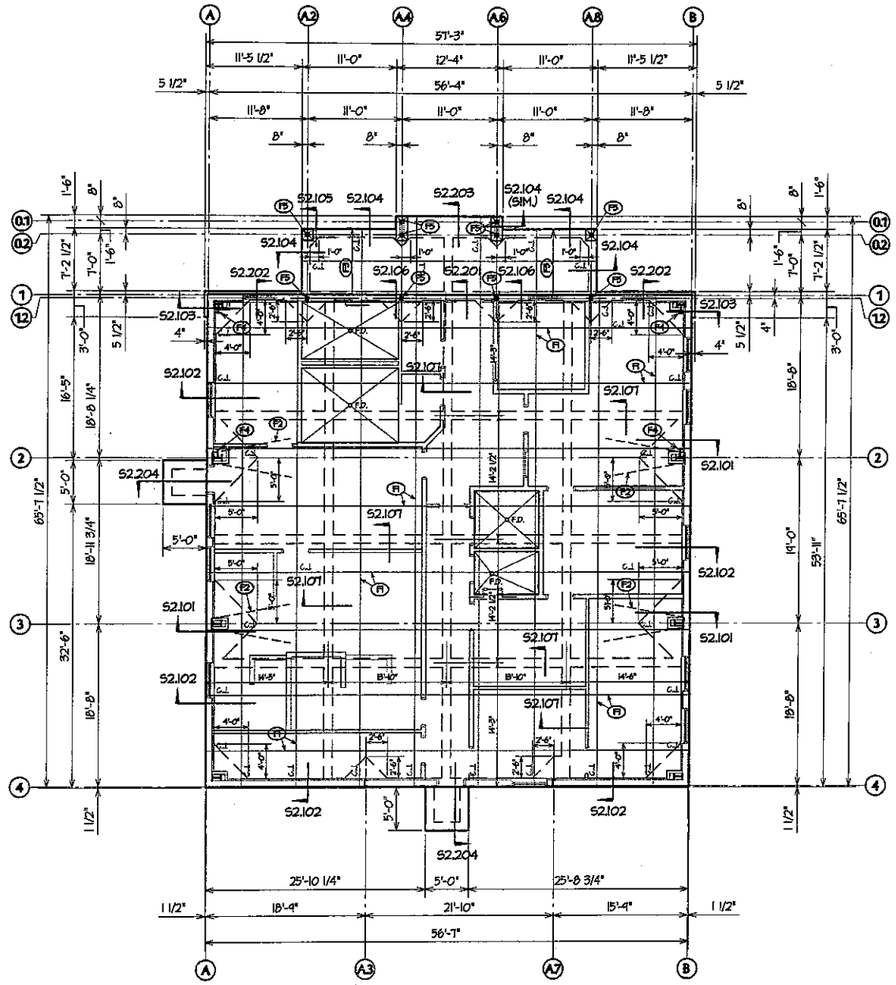


FOUNDATION PLAN

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

PLAN NORTH
NOT TRUE NORTH

FOUNDATION PLAN NOTES :

1. COORDINATE THE LOCATIONS AND DIMENSIONS OF ALL FLOOR DROPS AND FLOOR SLOPES WITH ARCHL. DRAWINGS.
2. REFER TO PREFAB METAL BUILDING ANCHOR BOLT LOCATION PLAN FOR LOCATION OF ANCHOR BOLTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INVOLVED TO MODIFY FOUNDATION TO ACCOMMODATE PREFAB METAL BUILDING.
4. ALL BUILDING EXTERIOR DIMENSIONS SHOWN ARE TO EDGE OF FOUNDATION AND NOT TO EXTERIOR FACE OF WALL.
5. SEE METAL BUILDINGS MFRS. SHOP DRAWINGS FOR ALL LATERAL BRACING REQUIREMENTS. GENERAL CONTRACTOR COORDINATE ALL LATERAL BRACE LOCATIONS WITH ARCHITECTURAL DWGS.

FOUNDATION PLAN KEYED NOTES :

(F1) – SLAB SAWED CONTROL JOINT - SEE DET. S2-108.

(F2) – SEE DET. S2-112 FOR HAIRPIN BARS AT COLUMNS.

(F3) – ADA AND IBC COMPLIANT SLOPE - SEE ARCHITECTURAL DRAWINGS.

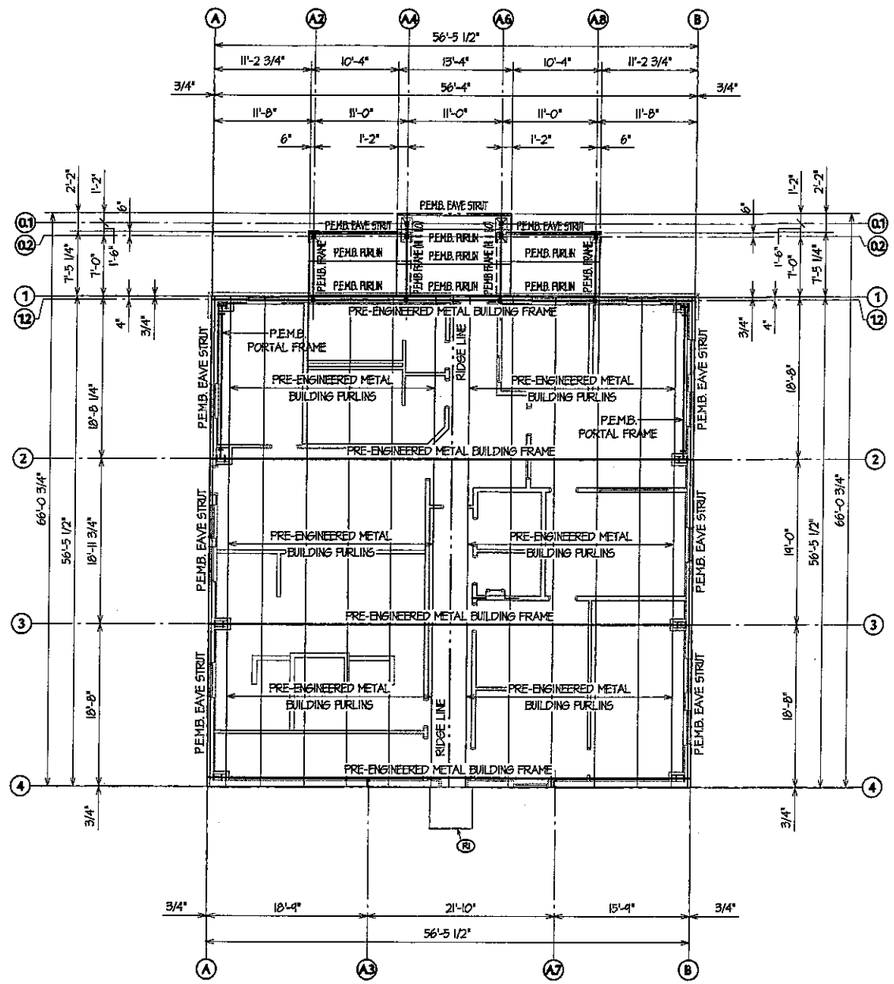
(F4) – PORTAL FRAME COLUMNS BY P.E.M.B. MFR.

(F5) – PRE-ENGINEERED METAL BUILDINGS MFR. SHALL SUPPLY 5 X 5 STEEL TUBE COLUMNS AT THESE LOCATIONS.

SLAB NOTE :

5" THICK CONCRETE SLAB ON COMPACTED FILL. REINF. SLAB WITH # 4 @ 16" CTRS. EACH WAY IN CENTER OF SLAB. COVER PREPARED GRADE WITH 10 MIL POLYETHYLENE SHEETING PRIOR TO PLACING CONCRETE.

DIMENSIONS ARE TO EXTERIOR FACE OF FOUNDATION. FOUNDATION OVERHANGS P.E.M.B. WALL PANEL BY 3/4 INCH (TYP. U.N.O.) SEE DETAILS.



SCHEMATIC ROOF FRAMING PLAN

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

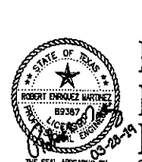
PLAN NORTH
NOT TRUE NORTH

SCHEMATIC ROOF FRAMING PLAN NOTES :

1. THE DESIGN AND CONSTRUCTION OF THE METAL BUILDING IS THE RESPONSIBILITY OF THE SUPPLIER. THE ROOF PLAN SHOWN IS SCHEMATIC ONLY.
2. SEE MEP DRAWINGS FOR EQUIPMENT MOUNTED ON OR SUSPENDED FROM ROOF STRUCTURE. METAL BLDG. MFR. SHALL DESIGN FRAMING FOR ALL UNIT LOADS AND SHALL PROVIDE SUPPLEMENTARY FRAMING MEMBERS AS REQUIRED TO SUPPORT THE UNITS.
3. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCHL. DWGS.
4. SEE METAL BLDG. MFRS. SHOP DWGS. FOR ALL LATERAL BRACING REQUIREMENTS. MFR. MUST COORDINATE ALL LATERAL BRACE LOCATIONS WITH ARCHL. DWGS.

SCHEMATIC ROOF FRAMING PLAN KEYED NOTES :

(R1) – CANOPY BY PRE-ENGINEERED METAL BUILDING MFR.



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY ROBERT E. MARTINEZ, P.E. # 89387 T.B.P.E. FIRM NO. 6944

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FOUNDATION AND SCHEMATIC ROOF FRAMING PLAN

SHEET NUMBER
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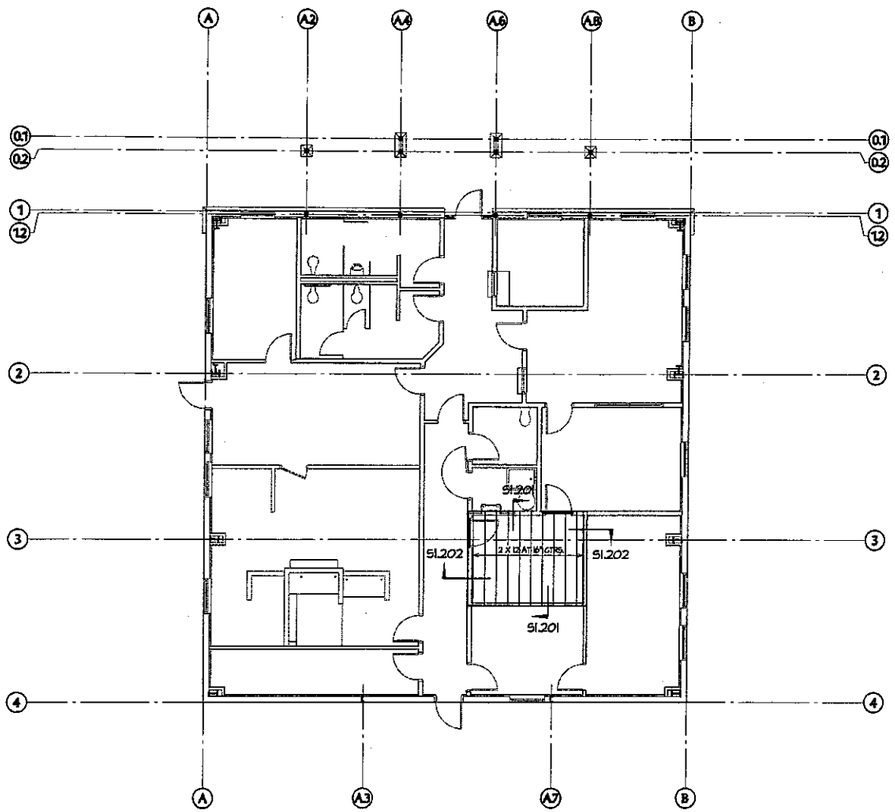


MEZZANINE FRAMING PLAN

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

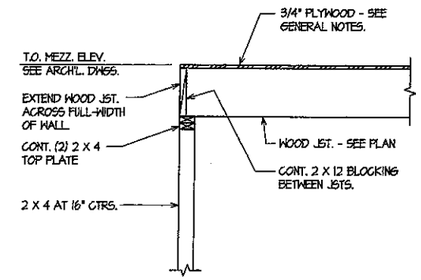
PLAN NORTH
NOT TRUE NORTH

MEZZANINE FRAMING PLAN NOTES :

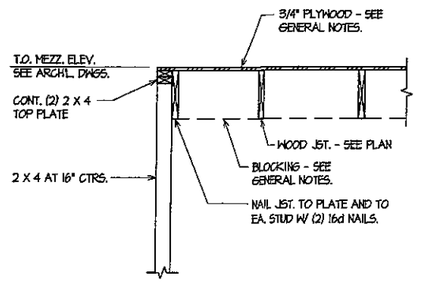
1. ALL HEADERS ABOVE DOORS AND WINDOWS IN 2 X 4 WALLS SHALL BE (2) 2 X 6 WITH (1) 1/2" PLYWOOD SHIM (UNLESS NOTED OTHERWISE).
2. ALL HEADERS ABOVE DOORS AND WINDOWS IN 2 X 6 WALLS SHALL BE (3) 2 X 6 WITH (1) 1/2" PLYWOOD SHIM (UNLESS NOTED OTHERWISE).

MEZZANINE FRAMING PLAN KEYED NOTES :

(M1) -SHIPS LADDER - SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



S1.201



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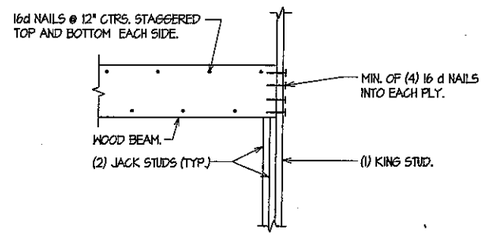
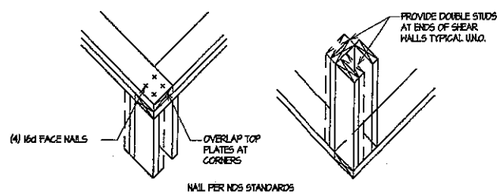
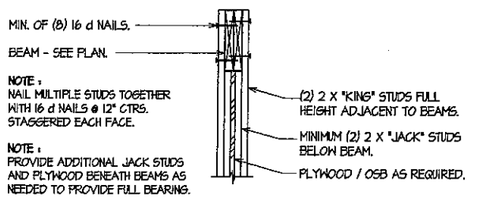


TYPICAL WOOD BEAM CONN. DETAIL S1.203



2 x CORNER FRAMING S1.204



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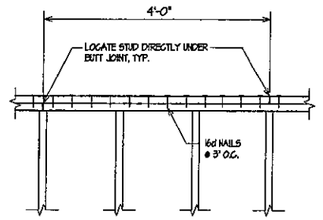
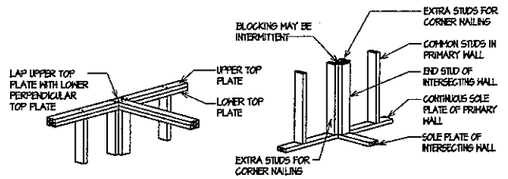


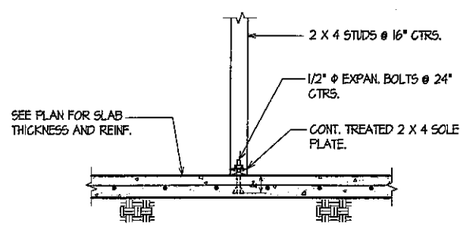
TOP PLATE LAP SPLICE S1.205



TOP PLATE INTERSECTION

SOLE PLATE INTERSECTION

INTERSECTING STUD WALLS S1.206



TYPICAL SOLE PLATE DETAIL S1.207

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Final Plans for Bidding and Construction

JUSTICE OF THE PEACE PRECINCT 3 BUILDING
GONZALES COUNTY
1812 E US-90, WAELDER, TX

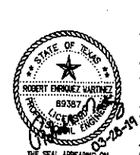
DATE ISSUED:
March 28, 2019

PROJECT NUMBER:
872-1118

PLAN NORTH ⊕ TRUE NORTH

SHEET NAME
MEZZANINE FRAMING PLAN AND DETAILS

SHEET NUMBER
S1.2



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY ROBERT E. MARTINEZ, P.E. # 89367 T.B.P.E. FIRM NO. 6944

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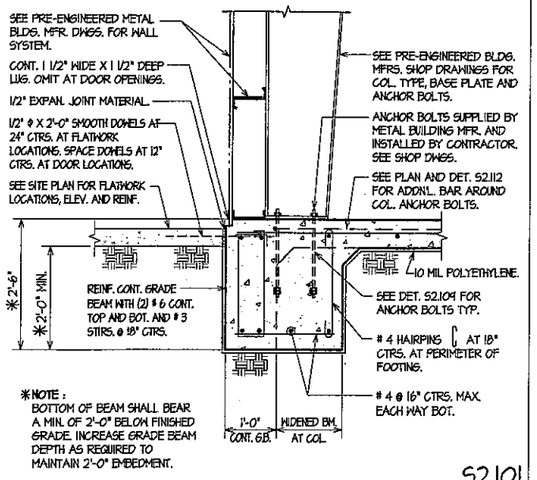

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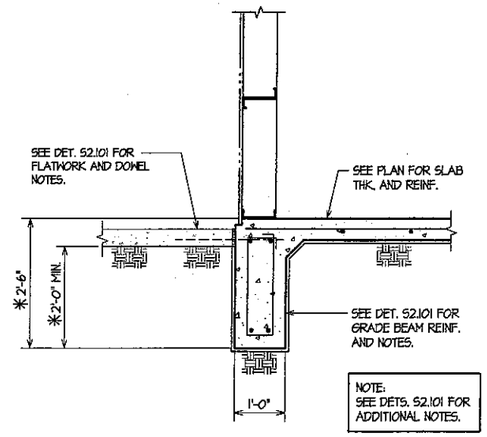

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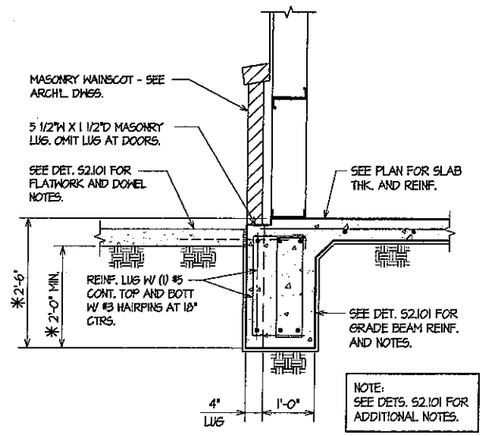

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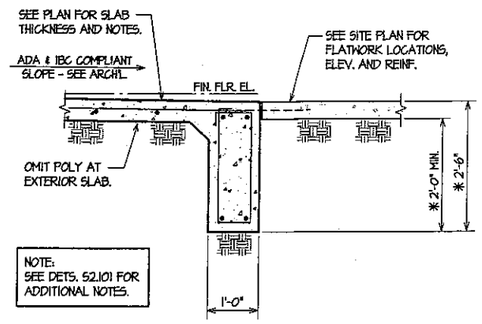

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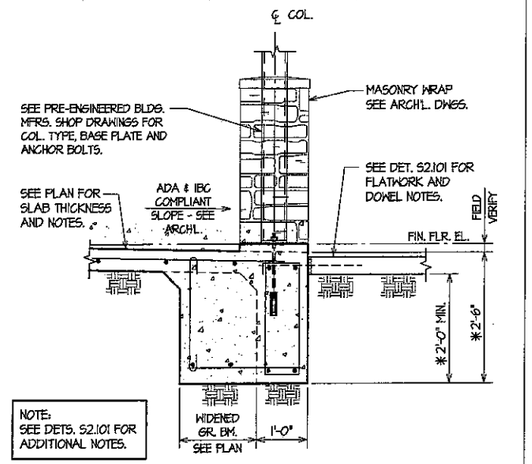
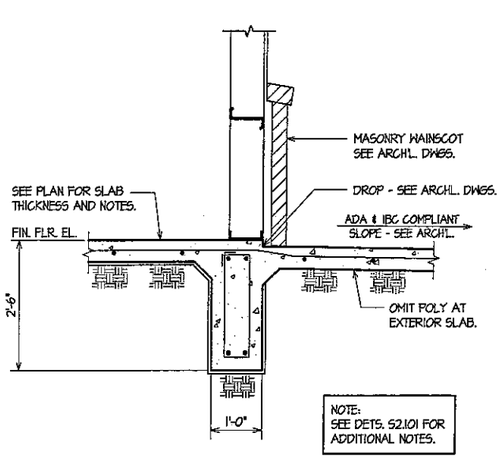


TYPICAL PORCH COLUMN DETAIL S2.105



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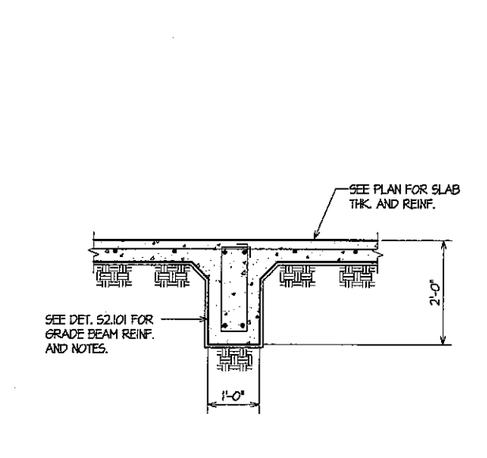
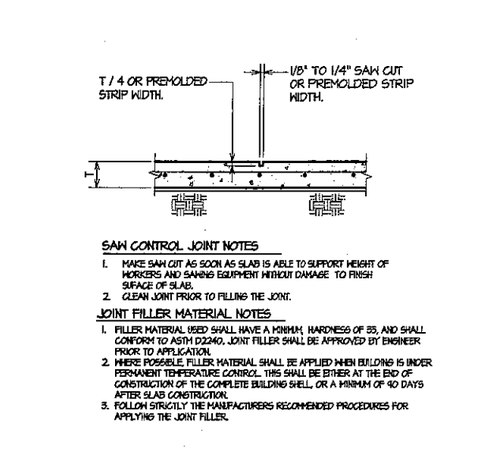


TYPICAL INTERIOR GRADE BEAM DETAIL S2.107



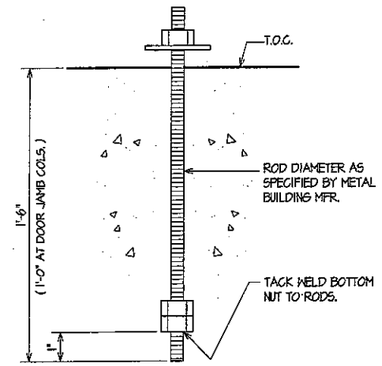
SAW CONTROL JOINT NOTES

1. MAKE SAW CUT AS SOON AS SLAB IS ABLE TO SUPPORT HEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO FINISH SURFACE OF SLAB.
2. CLEAN JOINT PRIOR TO FILLING THE JOINT.

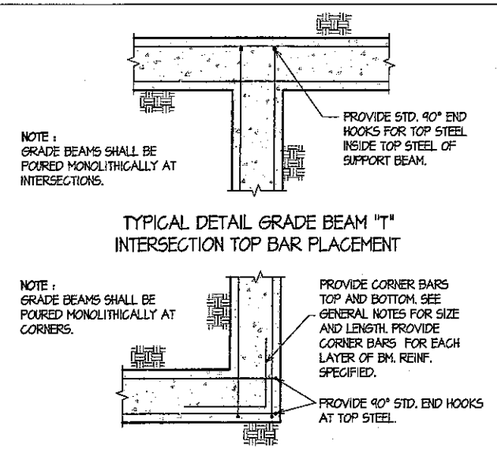
JOINT FILLER MATERIAL NOTES

1. FILLER MATERIAL USED SHALL HAVE A MINIMUM HARDNESS OF 85, AND SHALL CONFORM TO ASTM D2240. JOINT FILLER SHALL BE APPROVED BY ENGINEER PRIOR TO APPLICATION.
2. WHERE POSSIBLE, FILLER MATERIAL SHALL BE APPLIED WHEN BUILDING IS UNDER PERMANENT TEMPERATURE CONTROL. THIS SHALL BE EITHER AT THE END OF CONSTRUCTION OF THE COMPLETE BUILDING SHELL, OR A MINIMUM OF 90 DAYS AFTER SLAB CONSTRUCTION.
3. FOLLOW STRICTLY THE MANUFACTURERS RECOMMENDED PROCEDURES FOR APPLYING THE JOINT FILLER.

TYPICAL SAWED SLAB CONTROL JOINT DETAIL S2.108



TYPICAL ANCHOR BOLT DETAIL AT COLUMNS S2.109



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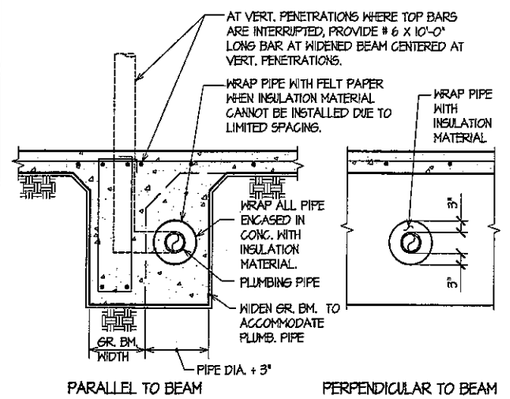
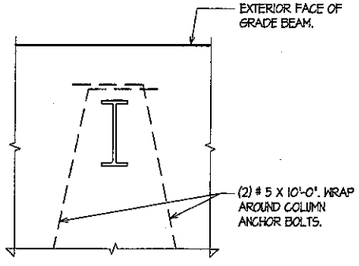
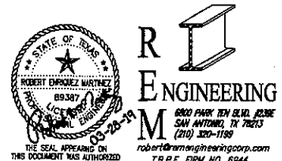


TYPICAL DETAIL PIPE PENETRATION THROUGH GRADE BEAM S2.111



TYPICAL HAIRPIN BARS AT COLUMNS S2.112



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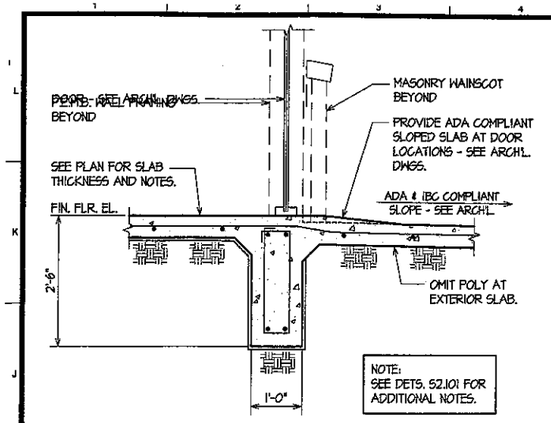
PLAN NORTH / TRUE NORTH

SHEET NAME
FOUNDATION DETAILS

SHEET NUMBER
S2.1



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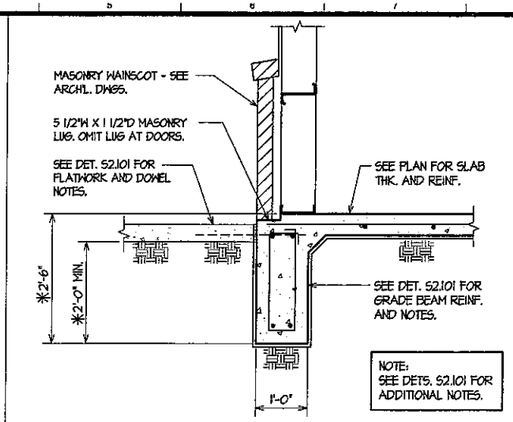

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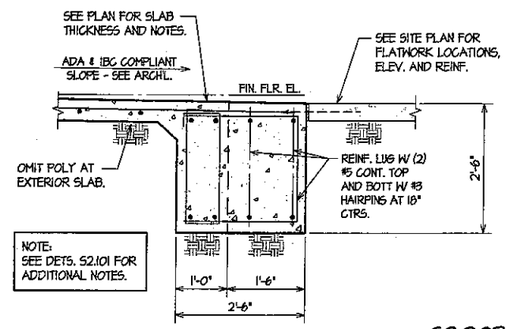

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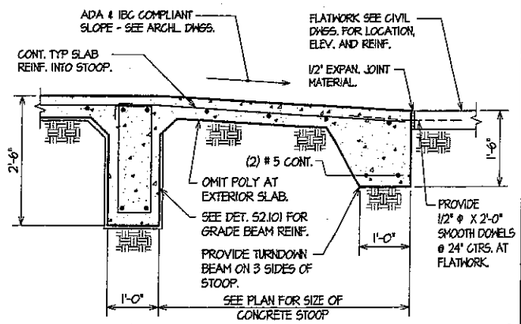

TYPICAL DETAIL AT CONCRETE STOOP S2.204

GENERAL

GC-1 The contract structural documents represent the finished structure, and, except where specifically shown, do not indicate the method or means of construction. The Contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, and sequence.

GC-2 The structure has been designed to resist design loads only as a completed structure. Applications of construction loads to the partially completed structure shall be considered by the Contractor and so included in the design of shoring, bracing, formwork, and any other supporting elements provided for construction of the structure. During erection and until all permanent connections are made, the Contractor must provide temporary bracing to brace the structure in all directions.

GC-3 The Engineer shall not have control or charge of, and shall not be responsible for, construction means, methods techniques, sequences, or procedures for safety precautions and programs in connection with the work, for the acts or omission of the Contractor, Subcontractor, or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with the contract documents.

GC-4 General Contractor shall check and verify all dimensions, grade conditions, (both new and existing) reporting any discrepancies to the Engineer before proceeding with any phase of the work as he will be responsible for all work fitting as intended by the construction documents.

STRUCTURAL DESIGN CRITERIA

SD-1 A. Live loads:

1. Roof	–	20 PSF (Reduced in accordance with IBC 1607.11.2)
2. Office Floor	–	50 PSF
3. Public Areas	–	100 PSF (Non-Reducable)
4. Storage Mezzanines	–	125 PSF (Non-Reducable)
5. Combinations in accordance with IBC 1605.3.1		

B. Wind loads – ASCE 7-10 (IBC 1609.1)

Allowable Stress Design Wind Speed (MPH)	97 (Vasd)
Ultimate Design Wind Speed (MPH)	124 (Vult))
Exposure classification	C
Risk Category	III (IBC Table 1604.5)

C. Ground Snow Load 5 PSF

D. Seismic Design Category A

SD-2 Future Loads: Unless specifically noted, there are no provisions made for future floors, roofs, or other loads.

SD-3 Applicable codes:

A. 2015 International Building Code
B. ASCE 7-10
C. ACI 318-14
D. AISC Fourteenth Edition 2011
E. AWS D1.1

GEOTECHNICAL REPORT

GR-1 Foundation design is based on the geotechnical investigation report by Intertek-PSI Dated January 29, 2019. (Intertek-PSI Project No. 0312-1745)

GR-2 The soil report is available to the General Contractor upon request to the Architect. The information included therein may be used by the General Contractor for his general information only.

SUBGRADE AND UNDERFLOOR FILL PREPARATION AT SLAB-ON-GRADE FOUNDATIONS

UF-1 The subgrade and underfloor fill shall be prepared to a point that extends 5'-0" minimum beyond the limits of the building foundation. Increase this width as needed to include all sidewalks/flatwork directly adjacent to the building foundation. Refer to the geotechnical report for the preparation of the subgrade soils beneath the flatwork/sidewalks beyond this width.

UF-2 The subgrade and underfloor fill shall be prepared in accordance with the geotechnical report recommendations provided by InterTek-PSI which calls for the removal of a minimum three (3) foot depth of native soils and the installation of a minimum three (3) foot depth of compacted fill to the underside of the slab elevation. Additional cut and fill depths may be required to accommodate the existing and finished grade elevations (See Civil Drawings). The subgrade shall be tested, inspected and approved by InterTek-PSI in writing prior to placing concrete. The subgrade preparation shall improve subgrade performance to limit the PVR to 1" or less. Refer to the InterTek-PSI report for requirements.

UF-3 Perform all earthwork before trenching for grade beams or mechanical lines.

UF-4 Maintain subgrade and the fill at optimum insitu moisture content after completion of structural fill placement. InterTek-PSI shall be consulted for means and methods of preparing the subgrade throughout the construction phase until the foundation concrete has been cast. This may include drying or wetting processes depending on the introduction or evaporation of moisture due to the weather and construction condition. The Testing Lab shall make a final site visit no sooner than two days prior to the concrete pour in order to verify and approve the subgrade and structural fill condition including moisture content to be fit and in accordance with the contract documents, prior to pour. Contractor shall make all corrective work required to improve the subgrade and structural fill areas which are not acceptable to the Testing Lab prior to placement of concrete.

UF-5 The finish grading around the building shall be graded to ensure adequate drainage of surface water away from the building. All air conditioning condensate lines and roof gutter downspouts shall be directed to discharge a minimum of ten (10) feet away from the foundation for further removal from the site.

UF-6 Trenching of grade beams shall be excavated in order to provide the beam cross sections indicated. Beam and slab depths and widths as indicated are minimum acceptable sizes. Larger size beams and slabs formed by less accurate trenching may require additional reinforcing (not shown) which shall be determined by the Engineer during construction review. All loose soil from sides and bottoms of trenches shall be removed. If a toothed bucket is used, excavation with this bucket shall stop six (6) inches above final grade and the excavation completed with a smooth-bucket or by hand labor.

UF-7 Drain exposed grade beams during construction in the event of inclement weather.

CONCRETE/REINFORCING:

CR-1 All concrete shall be in accordance with ACI and shall achieve a strength of 3,000 PSI at 28-days*. Testing shall be the sole responsibility of the Contractor and any substandard strengths shall be reported to the Architect and Engineer.

CR-2 Flyash shall not exceed 20 percent.

CR-3 There shall be no horizontal construction joints in concrete pours except where shown on details.

CR-4 Bar support accessories shall be provided in accordance with the latest ACI manual of standard practice for detailing reinforced concrete structures, except that reinforcing shall be supported on bolsters spaced not more than 4 feet on center. Bar supports for concrete exposed to view shall have plastic coated legs or be hot dip galvanized after fabrication. Do not use half bricks for bar supports.

CR-5 Mechanical and electrical conduit in slabs shall run under top layer of slab reinforcing. Provide a minimum of 1-1/2" clear between conduits and between reinforcing and adjacent conduits parallel to reinforcing. If maximum size of conduit exceeds one third of the slab depth, additional framing or reinforcing may be necessary.

CR-6 All reinforcing steel shall be grade 60 and shall conform to the ASTM Specification A615. Detailing of reinforcing steel shall conform to the American Concrete Institute Detailing Manual. Lap continuous unscheduled reinforcing bars 48 bar diameters at splices. Tie wire shall be 18 gage annealed type.

CR-7 Provide 1-#6 x 4'-0" L-shaped bar top and bottom of exterior face of beams and spandrel beams at corners.

CR-8 Reinforcing steel coverage shall be: Grade Beams – 1-1/2" Top, 3" Bottom, 3" Sides

CR-9 For grade supported slabs, slab and beam reinforcing shall be held in place by bar supports and accessories spaced a maximum of 4'-0" o.c. both ways. Pre-cast concrete bar supports as described in CRSI Manual of Standard Practice may be used. No rocks, CMU, clay tile, or brick shall be used to support reinforcing. Slab reinforcing shall be centered in concrete slab thickness.

CR-10 Provide "Z" transition bars (same size as beam reinforcement) where beam soffit step downs are greater than 6 inches.

CR-11 Concrete shall be placed and cured in accordance with ACI 302.1R. Finish tolerance shall be in accordance with ACI 117.

CR-12 Construct formwork to maintain tolerances outlined in ACI 347. Formwork shall extend a minimum of 6 inches below finished grade at perimeter beams.

CR-13 Vapor barrier shall be 10 mil polyethylene film for below grade application with a permeance of less than 0.3 US perms (ASTM E96). Vapor barrier shall be continuous with joints lapped a minimum of 12 inches and taped. The vapor barrier shall be installed in accordance with ASTM E1643.

CR-14 Refer to the Architectural Drawings for areas requiring colored concrete and/or special concrete finishes.

CR-15 Sawcut control joints into slab as early in the concrete placement process as possible as soon as the slab can support the weight of the workers and equipment without damage to the finished concrete surface. Unless noted otherwise, typically install control joints at quarter points from each beam line in both directions.

EPOXY

EX-1 Embedded steel items shall be set into hardened concrete with epoxy only where detailed on the drawings or where approved by the Engineer.

EX-2 All epoxy shall be submitted to the Engineer for approval prior to installation.

EX-3 All holes shall be drilled with a "Rotary Hammer" percussion drill. All holes shall have a diameter no larger than 1/8" greater than the diameter of the steel member being installed.

EX-4 All holes shall be cleaned with compressed air and shall be dry prior to installation of epoxy. Holes shall be free of all deleterious material such as laitance, dust, dirt, and oil.

EX-5 Steel shall be cleaned to a bright finish with wire brushes prior to installation. Prime surface as required by Manufacturer.

EX-6 Acceptable manufacturers are HILTI and Simpson Strong-Tie or approved equal. Complete technical information must be furnished to the Engineer and approved prior to commencement of work. In using the epoxy products, follow strictly the manufacturer's specifications and directions for mixing and application. Also heed all label warnings by manufacturer. Make application in accordance with applicable safety laws.

PRE-ENGINEERED/PRE-FABRICATED METAL BUILDING (DEFERRED SUBMITTAL)

MB-1 All pre-engineered metal building components shall be designed and fabricated under the direct supervision of a Registered Texas Professional Engineer.

MB-2 Limit the metal building frame design drift to no more than the allowable deflection limitations of the back-up components that are specified by the building code for the veneer systems supported by the metal building structure. Drift deflection shall not exceed one inch.

MB-3 Building frame resistance for lateral loads shall be designed so that columns do not transfer moment into the walls or foundation.

MB-4 Provide structural design data for the framing members and covering of the metal building system necessary to show compliance with the construction documents and building code. The structural design data includes magnitude and location of design loads and support conditions, material properties, and the type and size of structural members.

MB-5 Provide a statement/letter by the design engineer stating that the structural design of the metal building is in compliance with the specified code requirements. This letter shall be signed and sealed by the Metal Building System Engineer who is a Registered Texas Professional Engineer.

MB-6 Framing members shall be fabricated in accordance with AISC Specifications for plate, bar, tube, or rolled structural shapes. Framing member finish shall be cleaned and shop primed.

MB-7 Inspection of Fabricators (IBC Chapter 1704.2) The fabricator shall submit to the owner and the general contractor a certificate of compliance stating that he fabricated his work either under the inspection services of a special inspector or under the inspection services of his nationally recognized trade organization that requires controlled inspections.

MB-8 Anchor bolts shall be unprimed, ASTM A 193 Grade B-7 or ASTM F-1554 Grade 105 or equivalent all thread; diameter and quantity as specified by the metal building manufacturer.

MB-9 Wall girt spacing and column interior flange angle brace locations shall be manufacturer's standard spacing and number of braces as required for building design. Braces shall not be located below the ceiling elevations shown on the Architectural plans.

MB-10 Beam flange angle brace locations shall be manufacturer's design standard spacing and number of braces as required for building design. Braces shall be located above the ceiling elevations shown on the Architectural plans.

MB-11 Roof framing members spanning between frames supporting the covering of the metal building system shall be cold formed, high strength roof framing long bay purlins and other secondary framing and the bolts required for their erection.

MB-12 Closure pieces shall be manufacturer's standard, necessary to finish out the metal building system. Color of trim pieces shall be selected from manufacturer's standard color. Refer to architectural drawings for closure pieces. Sealants shall be manufacturer's standard.

MB-13 Roof curb assemblies shall include sub framing members that span between purlins. Provide curbs at all roof mounted mechanical units. The metal building system shall be strengthened to support the additional equipment mounted on the curbs.

WOOD FRAMING

WF-1 All lumber and its fastenings shall conform to the National Design Specification for Wood Construction, latest edition, by the National Forest Products Association.

WF-2 All wood framing shall be Southern Yellow Pine, Grade 2, or approved equivalent unless noted otherwise.

WF-3 If the Contractor or Owner choose to use a wood species or framing member other than what is shown in the drawings, schedules, general notes, etc. modifications to the design will need to be performed by the Engineer. The Contractor/Owner who is requesting the alternate material shall reimburse the Engineer for all time spent on the re-design.

WF-4 Provide solid wood blocking at supports, halfway between supports and 8'-0" on center maximum.

WF-5 See details for all sill plate anchor bolts. Locate first anchor bolts within 12 inches from all corners.

WF-6 All wood members in contact with concrete shall be treated lumber.

WF-8 All joist and beam connections with supporting members shall be provided with hangers of appropriate size and gage as manufactured by Simpson Strong-Tie or equal.

WF-9 Installation and framing construction requirements for all MEP mechanical equipment, unless otherwise addressed in the Engineer's drawings, shall be the sole responsibility of the Contractor. Specific models, and dimensional characteristics of such equipment shall be determined by the Owner and Contractor in accordance with the Architects plans and schedules. The Contractor shall bear full responsibility for insuring that framing and attached components provide the necessary dead and live load support in the manner required by the equipment manufacturer.

WF-10 All framing anchors, straps, etc. shall be as manufactured by Simpson Strong-Tie.

WF-10 Provide 2x solid blocking in walls as required for reinforcement of all grab bars, restroom fixtures, pluming lines, wall bumpers, etc.

FLOOR SHEATHING

FS-1 Floor sheathing shall be 23/32" or 3/4" thick APA RATED PLYWOOD or OSB SHEATHING EXP 1, EXP 2 or EXT with a Panel Span Rating of 48/24.

FS-2 Panels shall be nailed to supports in accordance with American Plywood Association recommendations. Install panels with the long dimension of the panel across supports, except where noted, and with panel continuous over two or more spans. Allow 1/8" spacing at panel ends and 1/4" at panel edges. Nail 6" on center along panel edges and 12" on center at intermediate supports. Use 8d common nails. No staples are allowed.

INSPECTION BY THE TESTING LAB

TL-1 The testing lab shall provide special inspection of the following items in accordance with the code. Re-inspect as required until all items pass inspection. Written reports shall be submitted to the Engineer.

1. Subgrade and Underfloor Fill: Refer to the geotechnical investigation report from Intertek-PSI regarding subgrade and select fill pad testing requirements.
2. Reinforcing Steel: Inspect all rebar prior to placing concrete.
3. Concrete: During the taking of test specimens and placing of reinforced concrete.
4. Bolts installed in Concrete: Prior to and during the placement of concrete around bolts.

TL-2 The testing lab shall provide testing and inspection services for all items listed in Chapter 17 of the International Building Code. Re-inspect as required until all items pass inspection. Written reports shall be submitted to the Engineer.

TL-3 Periodic site observations by the Testing Lab are solely for the purpose of determining if the work of the Contractor is proceeding in general accordance with the structural contract documents. These limited site observations should not be construed as exhaustive or continuous to check the quality or quantity of the work, but rather periodic in an effort to guard the Owner against defects or deficiencies in the work of the Contractor.

TL-4 The Contractor shall notify the Testing Lab 48 hours in advance of any concrete placement.

TL-5 The Contractor shall not place any concrete until all reinforcing steel placement has been reviewed by the Engineer or Testing lab AND all corrections made by the Contractor. It is the Contractor's responsibility to ensure that all corrections have been made.

TL-6 Do not cover up structural framing until it has been reviewed by the Engineering and Testing Lab.

VARIATIONS FROM STRUCTURAL DETAILS

V-1 The Contractor shall not make revisions in structural details without prior approval from the Structural Engineer. Any proposed revisions shall be submitted in writing with appropriate sketches and calculations stamped by a Texas Professional Engineer. The Contractor shall reimburse the Structural Engineer for all time spent reviewing such details.

APPLICABILITY OF TYPICAL DETAILS

TD-1 Typical Details shall apply to ALL such situations and conditions which are similar to the condition shown on the detail or verbally described in the title of the detail or notes on the detail. Typical Details shall apply regardless of whether or not the detail section mark is cut on the plans.

MISCELLANEOUS

M-1 See architectural drawings for floor elevations, slopes and the location of depressed floor areas.

M-2 The Contractor shall compare structural sections with architectural sections and report any discrepancy to the Architect and Engineer prior to fabrication or installing structural members.

M-3 Changes shall not be made to the drawings without written approval of the Engineer.

M-4 Shop drawings shall be submitted for all structural items including concrete mix design, rebar, epoxy and pre-engineered metal building.

M-5 Rebar shall not be heated with a torch in the field.

M-6 See prefabricated building manufacturer's drawings for steel framing. The General Contractor shall provide and set anchor bolts as per prefabricated building manufacturer's drawings.

SITE OBSERVATION BY THE STRUCTURAL ENGINEER

SV-1 Periodic site observations by field representatives of REM Engineering are solely for the purpose of determining if the work of the Contractor is proceeding in general accordance with the structural contract documents. These limited site observations should not be construed as exhaustive or continuous to check the quality or quantity of the work, but rather periodic in an effort to guard the Owner against defects or deficiencies in the work of the Contractor.

SV-2 The Contractor shall notify the Engineer and Testing Lab 48 hours in advance of any concrete placement.

SV-3 The Contractor shall not place any concrete until all reinforcing steel placement has been reviewed by the Structural Engineer AND all corrections made by the Contractor. It is the Contractor's responsibility to ensure that all corrections have been made.

SV-4 Do not cover up structural framing until it has been reviewed by the Engineer and Testing Lab.

REPRODUCTION NOTE

R-1 The use of reproductions of these contract drawings by any 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.

STATE OF TEXAS ROBERT ENRIQUEZ MARTINEZ 86387 LICENSED PROFESSIONAL ENGINEER 03-28-19

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY ROBERT E. MARTINEZ, P.E. # 86387 T.B.P.E. FIRM NO. 6944

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BRADLEY WADE KOCUREK
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STATE OF TEXAS

Final Plans for Bidding and Construction

JUSTICE OF THE PEACE PRECINCT 3 BUILDING
GONZALES COUNTY

1812 E US-90, WAELDER, TX

DATE ISSUED:
March 28, 2019

PROJECT NUMBER:
872-1118

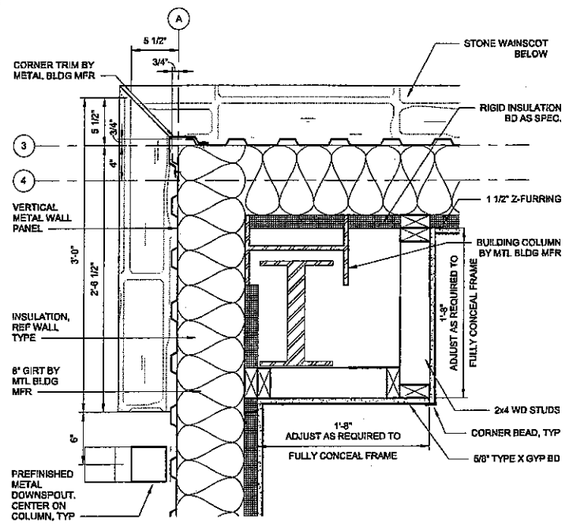
PLAN NORTH TRUE NORTH

SHEET NAME
FOUNDATION DETAILS AND GENERAL NOTES

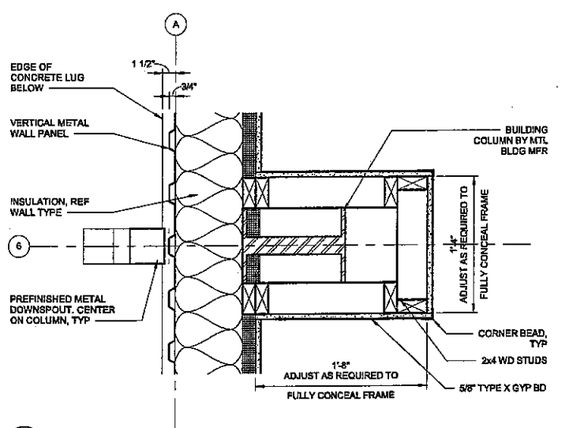
SHEET NUMBER
S2.2

RESTROOM ACCESSORY SCHEDULE

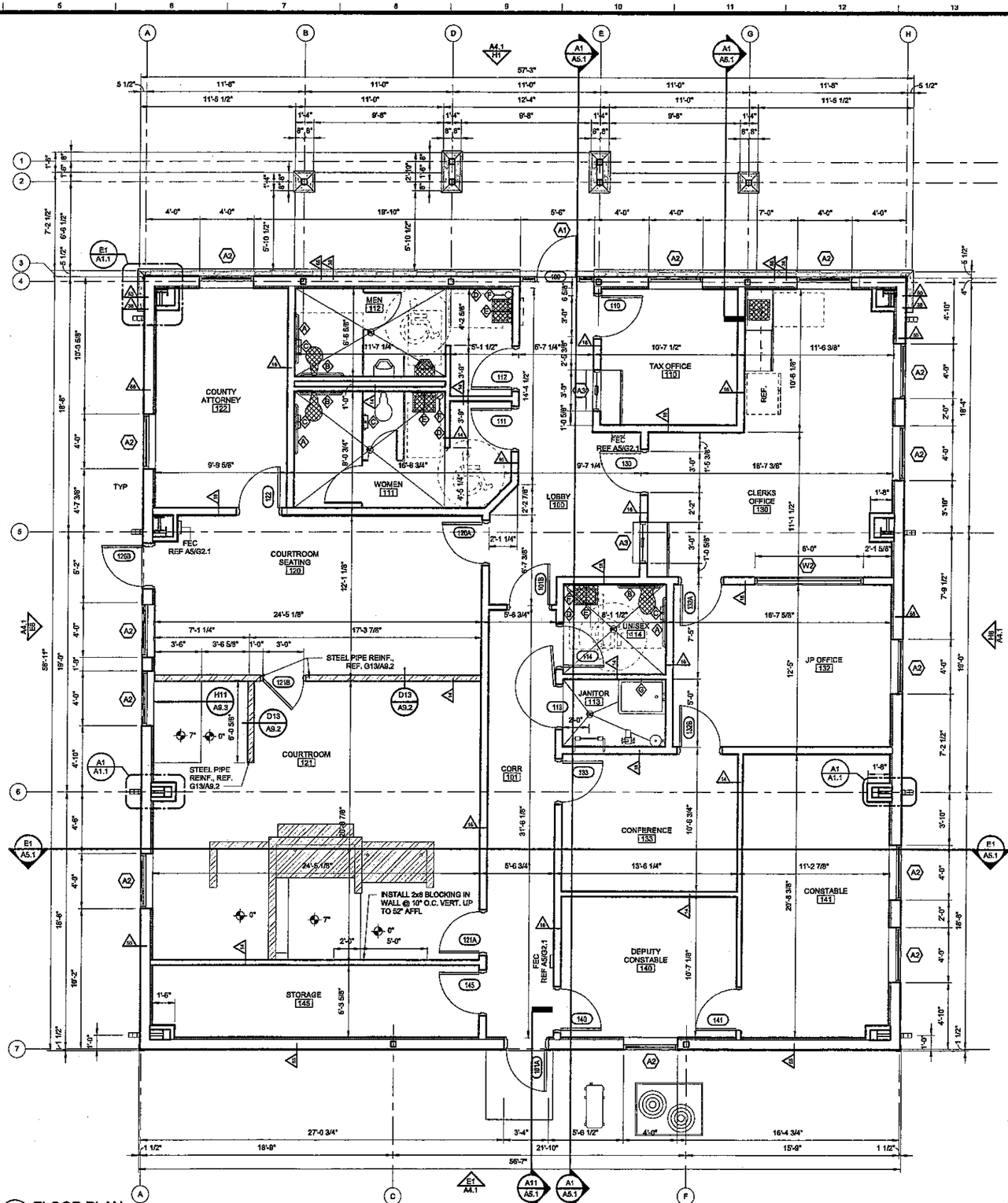
MARK	NAME	DESCRIPTION & MOUNTING	COUNT
A	GRAB BAR	"BOBRICK" B-6806 X 42" 1 1/2" DIAMETER, STAINLESS STEEL - SATIN FINISH - MASONRY MOUNTING, REFER TO ELEVATIONS FOR MOUNTING HEIGHT	3
B	GRAB BAR	"BOBRICK" B-6806 X 36" 1 1/2" DIAMETER, STAINLESS STEEL - SATIN FINISH - MASONRY MOUNTING, REFER TO ELEVATIONS FOR MOUNTING HEIGHT	3
C	TOILET TISSUE DISPENSER	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR	4
D	PAPER TOWEL DISPENSER	"BOBRICK" B-359 - REFER TO ELEVATIONS FOR MOUNTING HEIGHT	3
E	MIRROR	"BOBRICK" B290 - 1836 STAINLESS STEEL ANGLE FRAME, MOUNT AS SHOWN ON ELEVATIONS	3
F	SOAP DISPENSER	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR	3
G	MOP/BROOM HOLDER	"BOBRICK" B223 x 24" L STAINLESS STEEL W/3 HOLDERS, MOUNT AS SHOWN ON ELEVATIONS	1



E1 PLAN DETAIL
1 1/2" = 1'-0"



A1 PLAN DETAIL
1 1/2" = 1'-0"



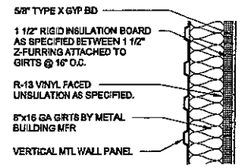
A5 FLOOR PLAN
1/4" = 1'-0"

GENERAL NOTES

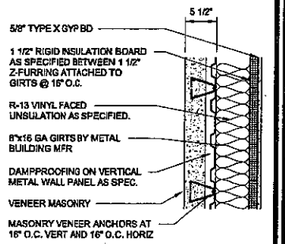
1. ON THIS PLAN, WALL TYPE 55 IS TYP AT EXTERIOR WALLS, AND WALL TYPE 16 IS TYP AT INTERIOR WALLS, U.O.N.
2. DIMENSIONS ARE TO FACE OF STUD AT INTERIOR WALLS AND FACE OF Z-FURRING AT EXTERIOR WALLS, U.O.N.

CONSTRUCTION LEGEND

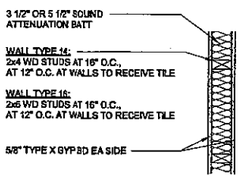
- STONE VENEER (REFER TO WALL TYPES)
- WOOD STUD WALLS (REFER TO WALL TYPES)
- WALL TO DECK (REFER TO DETAILS)
- INDICATES ACCESSIBLE HEIGHT FIXTURE



EXTERIOR WALL 55



EXTERIOR WALL 38



(STC 34 MIN. NON-LOADBEARING) WITH SOUND ATTENUATION BATT

INTERIOR WALL 14 16

A14 WALL TYPES
1" = 1'-0"

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5.28.19

JUSTICE OF THE PEACE PRECINCT 3 BUILDING
GONZALES COUNTY

1612 E US-90, WAELDER, TX

DATE ISSUED:
March 28, 2019

PROJECT NUMBER:
872-1118

PLAN NORTH TRUE NORTH

SHEET NAME
FLOOR PLAN

SHEET NUMBER
A1.1

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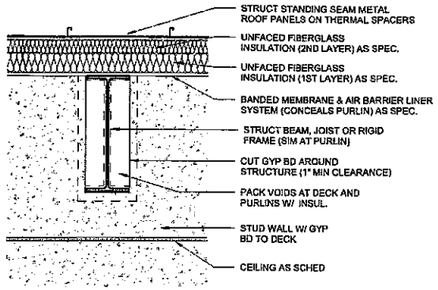
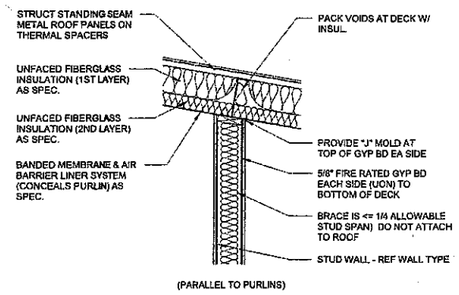


J1 WALL TO DECK DETAIL

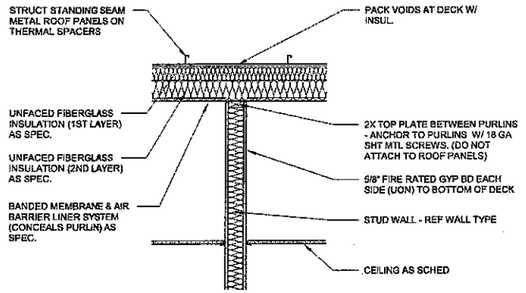
3/4" = 1'-0"



(PARALLEL TO PURLINS)

G1 WALL TO DECK DETAIL

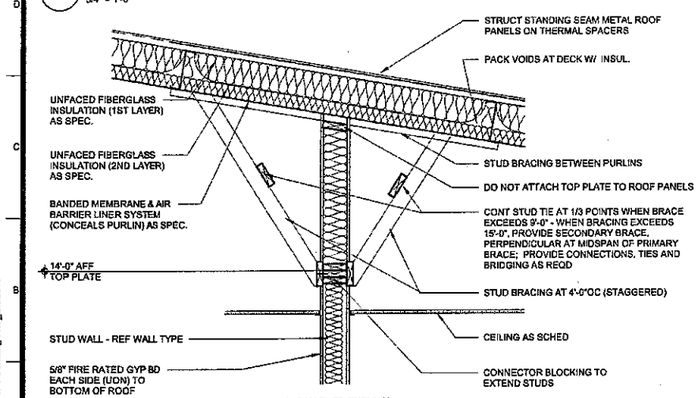
3/4" = 1'-0"



(PERPENDICULAR TO PURLINS)

D1 WALL TO DECK DETAIL

3/4" = 1'-0"



(PARALLEL TO PURLINS)

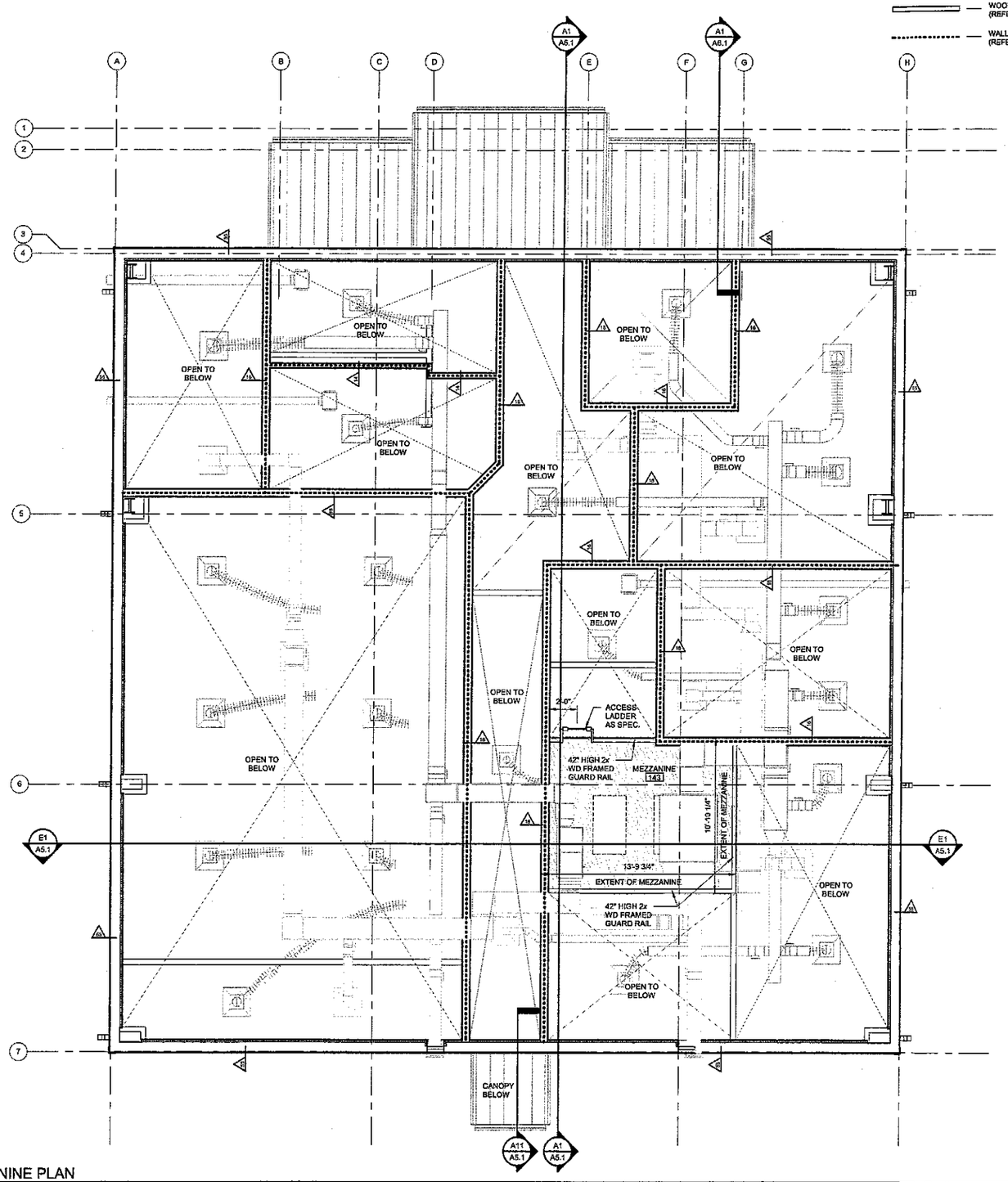
NOTE: PROVIDE DIAGONAL BRACING (AS SHOWN) WHERE STUD WALL EXCEEDS ALLOWABLE UNSUPPORTED VERT SPAN

A1 WALL TO DECK DETAIL

3/4" = 1'-0"

CONSTRUCTION LEGEND

- STONE VENEER (REFER TO WALL TYPES)
- WOOD STUD WALLS (REFER TO WALL TYPES)
- WALL TO DECK (REFER TO DETAILS)



A6 MEZZANINE PLAN

1/4" = 1'-0"

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GONZALES COUNTY

1812 E US-90, WAELDER, TX

DATE ISSUED:
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PROJECT NUMBER:
872-1118

PLAN NORTH / TRUE NORTH

SHEET NAME
MEZZANINE & WALL TO DECK PLAN

SHEET NUMBER
A1.2

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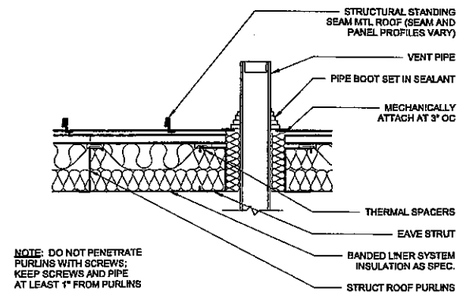
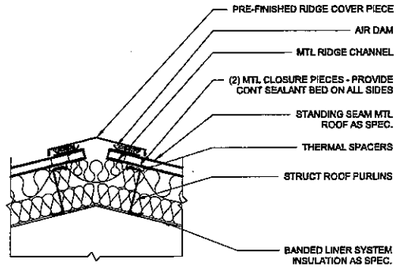
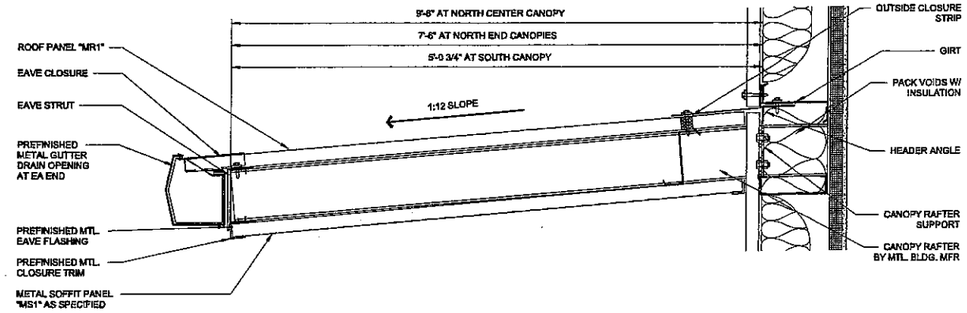


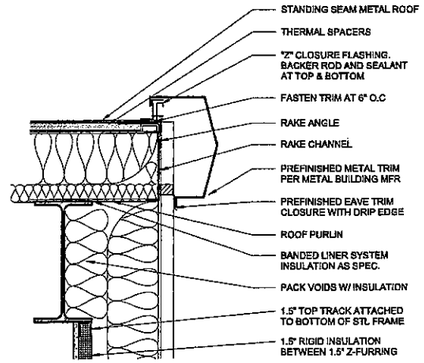
J1 VENT PIPE THROUGH ROOF SECTION DETAIL
1 1/2" = 1'-0"



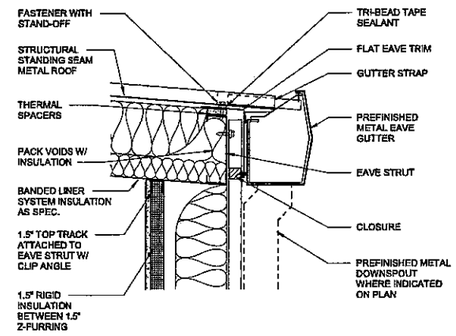
J5 SECTION DETAIL
1 1/2" = 1'-0"



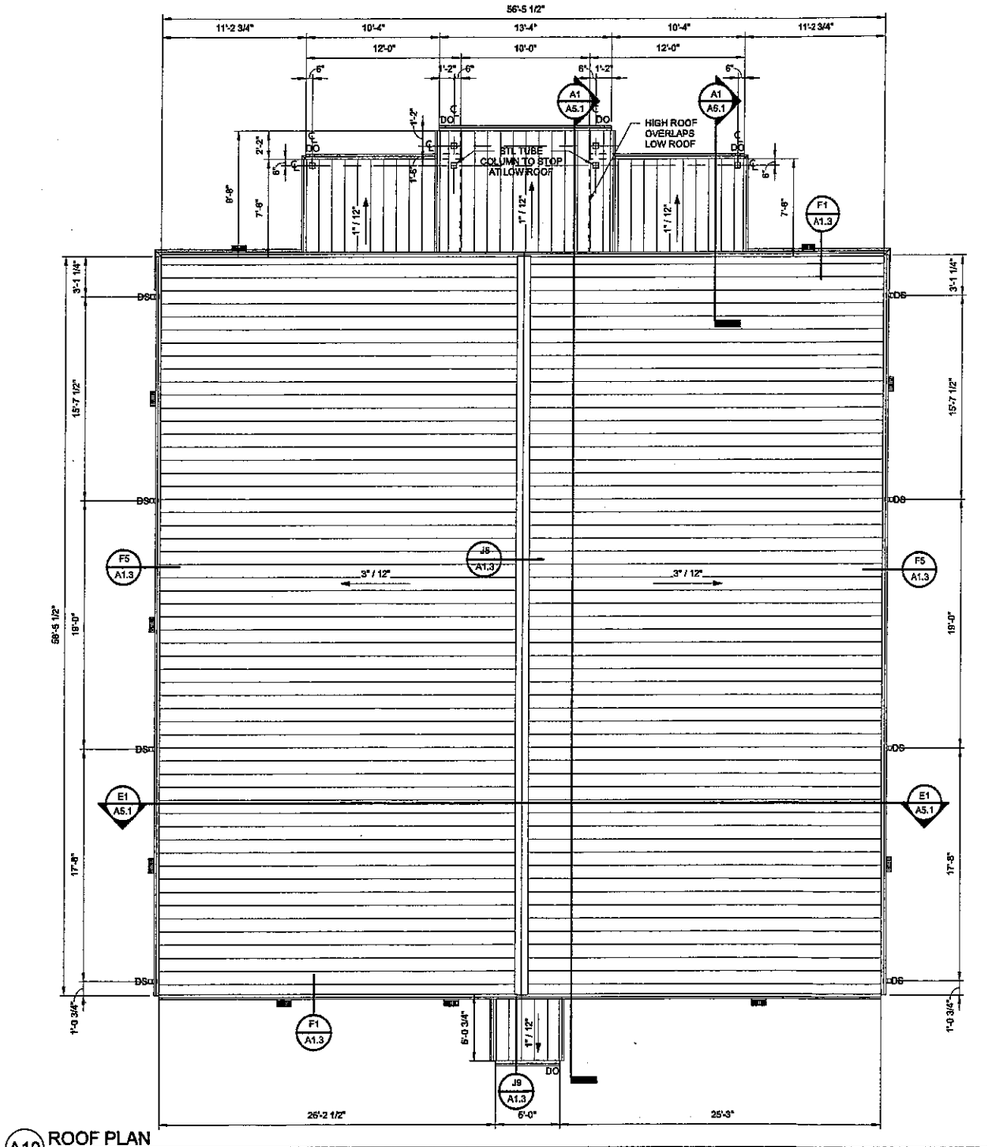
J9 CANOPY DETAIL
1 1/2" = 1'-0"



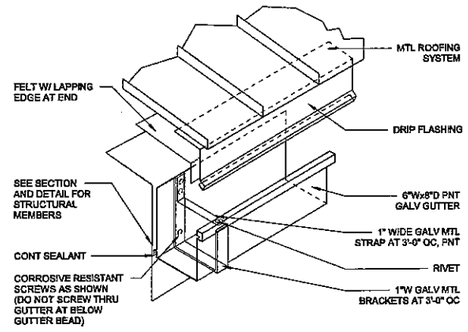
F1 SECTION DETAIL
1 1/2" = 1'-0"



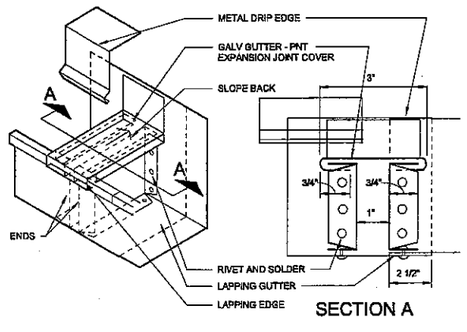
F5 SECTION DETAIL
1 1/2" = 1'-0"



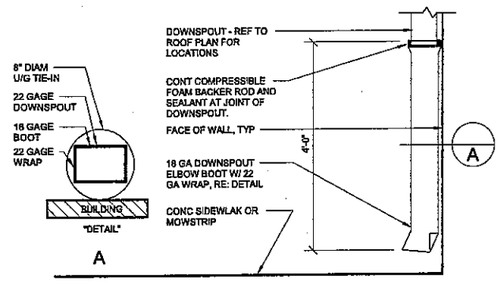
A10 ROOF PLAN
3/16" = 1'-0"



D1 GUTTER EDGE DETAIL
1 1/2" = 1'-0"



D5 GUTTER EDGE EXP JOINT
1 1/2" = 1'-0"



A1 DOWNSPOUT BOOT DETAIL
1 1/2" = 1'-0"

ROOF LEGEND

	ARCHITECTURAL STANDING SEAM MTL ROOFING - "MR1"
1:12	ROOF SLOPE DIRECTION
DS	INTEGRAL 8" GUTTER (D1/A1.3) W/ 4"x4" DOWNSPOUT (DS) REF DETAIL A1/A1.3
DO	GUTTER W/ DIRECTIONAL DRAIN OPENING (NO DOWNSPOUT)

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3.28.19

JUSTICE OF THE PEACE PRECINCT 3 BUILDING
GONZALES COUNTY
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DATE ISSUED:
March 28, 2019

PROJECT NUMBER:
672-1118

PLAN NORTH / TRUE NORTH

SHEET NAME
ROOF PLAN & DETAILS

SHEET NUMBER
A1.3

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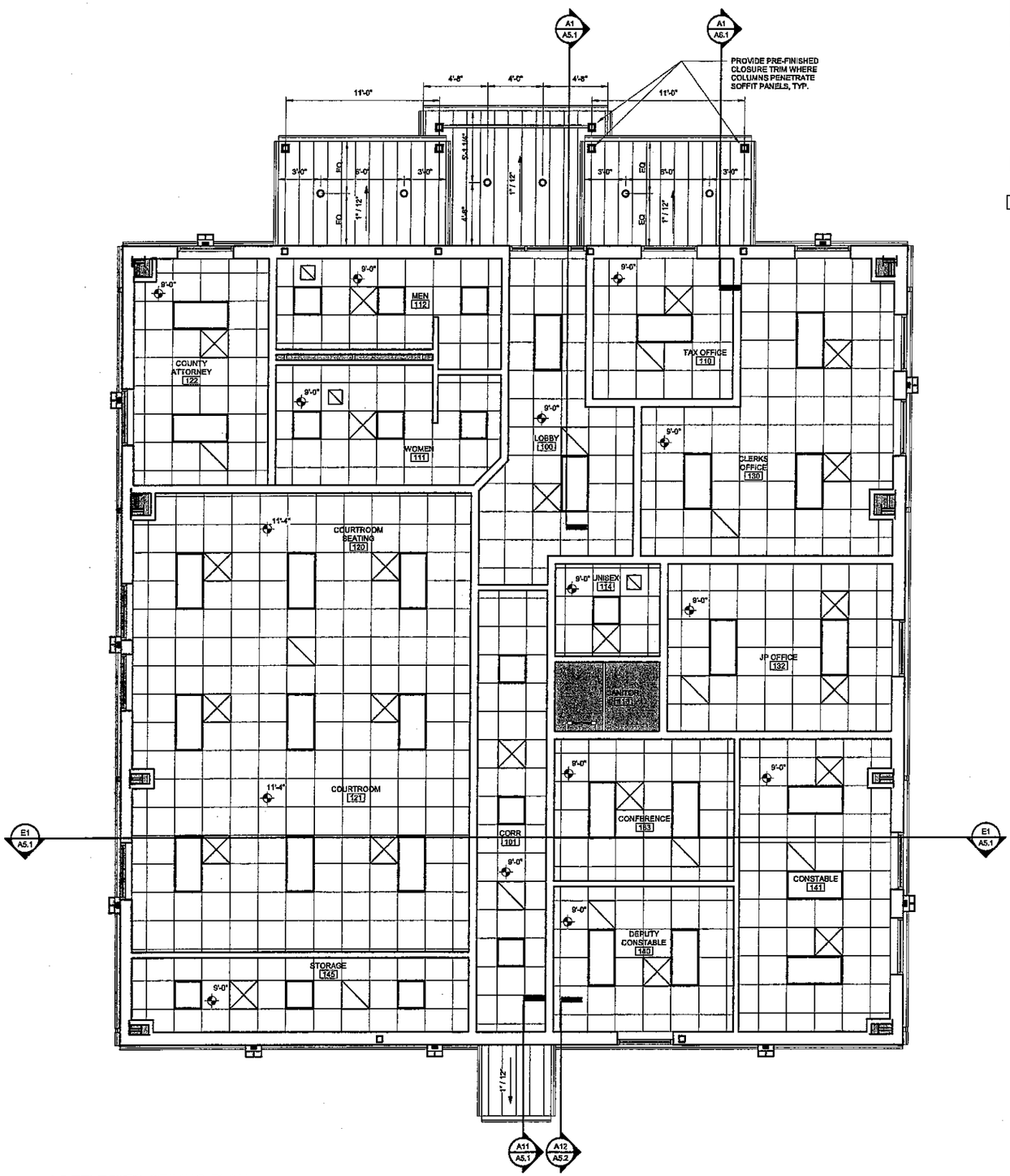

A5 LEVEL 1 REFLECTED CEILING PLAN
1/4" = 1'-0"

CEILING LEGEND

- ACOUSTICAL PANEL CEILING SYSTEM "APC1". REF A8.1 FOR TYPE.
- METAL SOFFIT PANEL - "MS1"
- EXPOSED STRUCTURE
- 10'-0" ELEVATION HEIGHT SYMBOL INDICATES HEIGHT ABOVE FINISH FLOOR
- SUPPLY AND RETURN AIR GRILLS. REF MEP DOCS
- RECESSED LIGHT FIXTURE REF MEP DOC
- RECESSED LIGHTING FIXTURE REF MEP DOC
- WALL MOUNTED LIGHT REFER TO MEP DWGS

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GONZALES COUNTY

1812 E US-90, WAELDER, TX

DATE ISSUED:
March 28, 2019

PROJECT NUMBER:
572-1118

PLAN NORTH | TRUE NORTH

SHEET NAME
REFLECTED CEILING PLAN

SHEET NUMBER
A3.1

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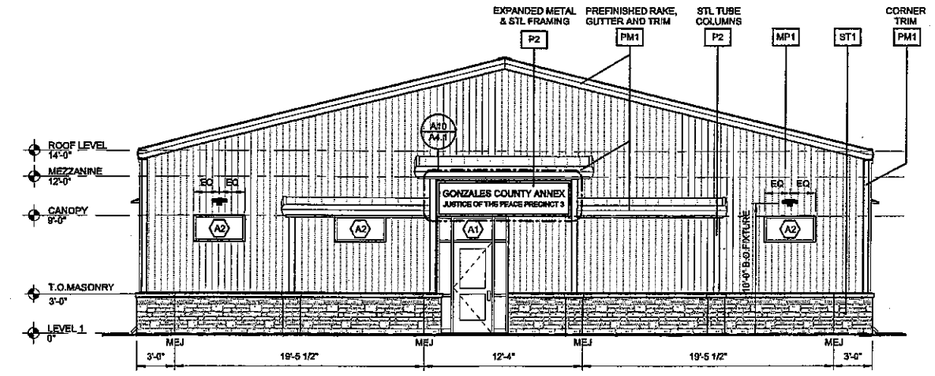
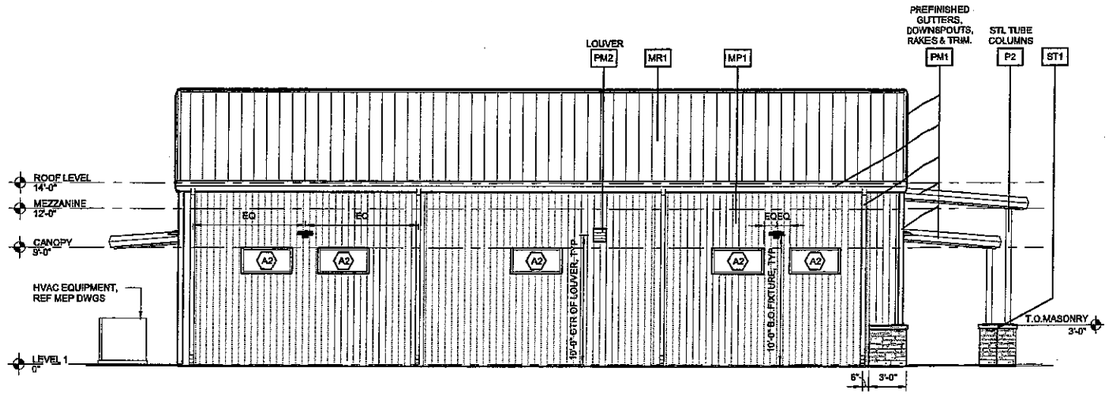
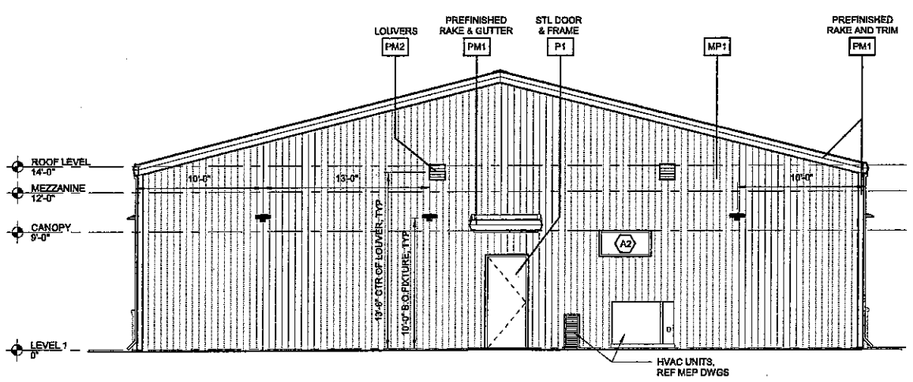


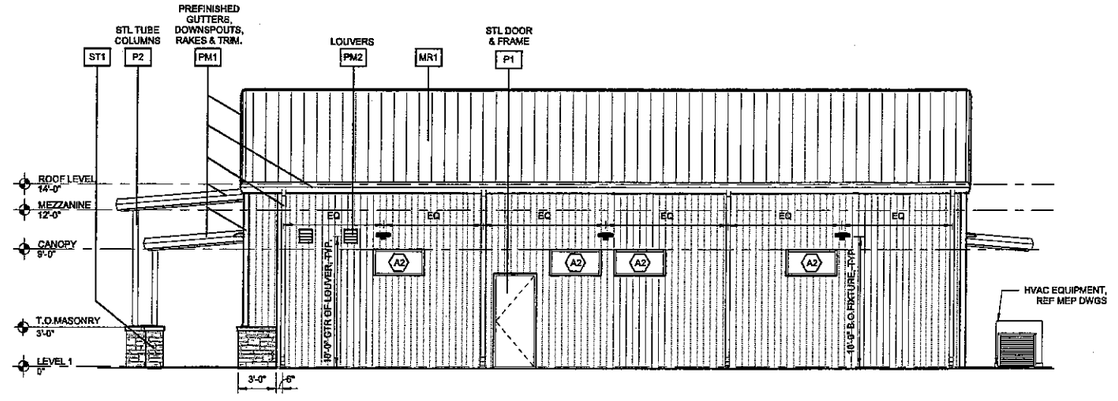
H1 NORTH ELEVATION
3/16" = 1'-0"



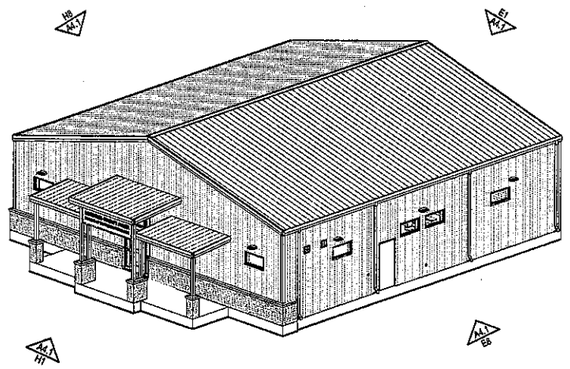
H8 EAST ELEVATION
3/16" = 1'-0"



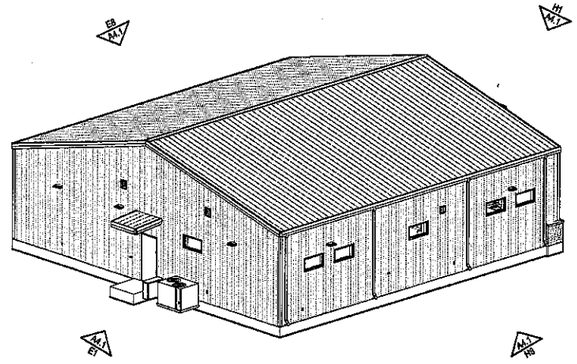
E1 SOUTH ELEVATION
3/16" = 1'-0"



E8 WEST ELEVATION
3/16" = 1'-0"



A1 NW AXON

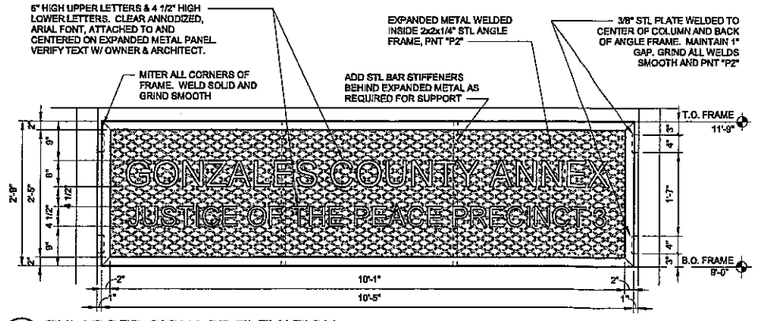


A6 SE AXON

ELEVATION LEGEND

REFER TO MATERIAL SCHEDULE ON SHEET A8.1.

- STONE - "ST1" (RANDOM ASHLAR)
- VERTICAL METAL PANEL - "MP1
- STANDING SEAM METAL ROOF - "MR1"



A10 ENLARGED SIGNAGE ELEVATION
3/4" = 1'-0"

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REGISTRATION NO. 22147
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3.28.19

JUSTICE OF THE PEACE PRECINCT 3 BUILDING
GONZALES COUNTY

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DATE ISSUED:
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PROJECT NUMBER:
872-1116

PLAN NORTH / TRUE NORTH

SHEET NAME
EXTERIOR ELEVATIONS

SHEET NUMBER
A4.1

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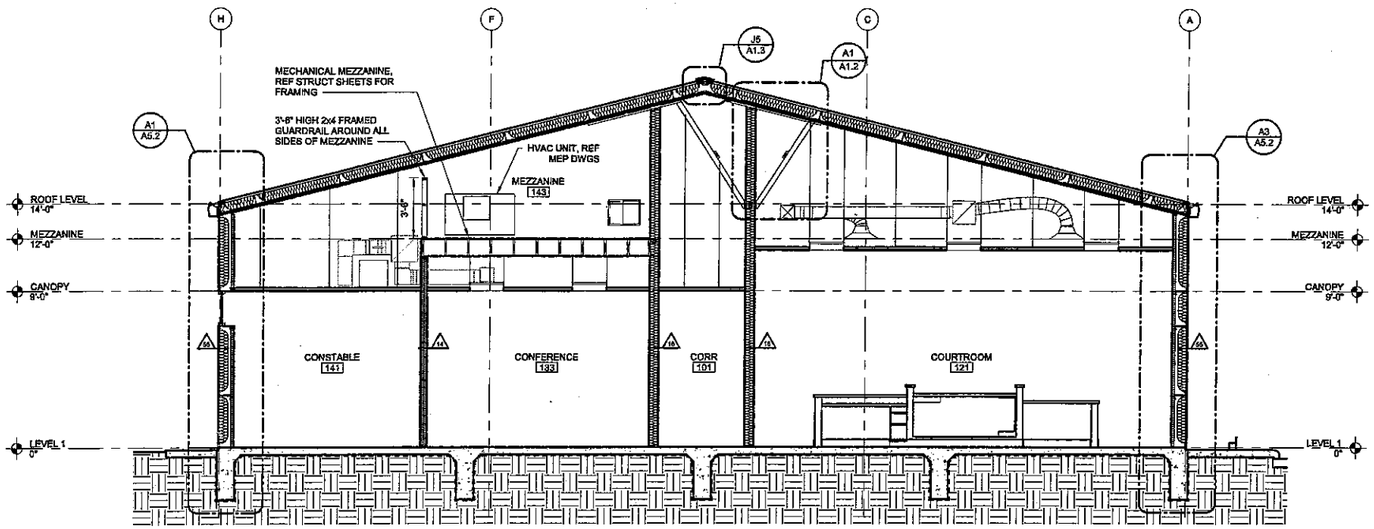
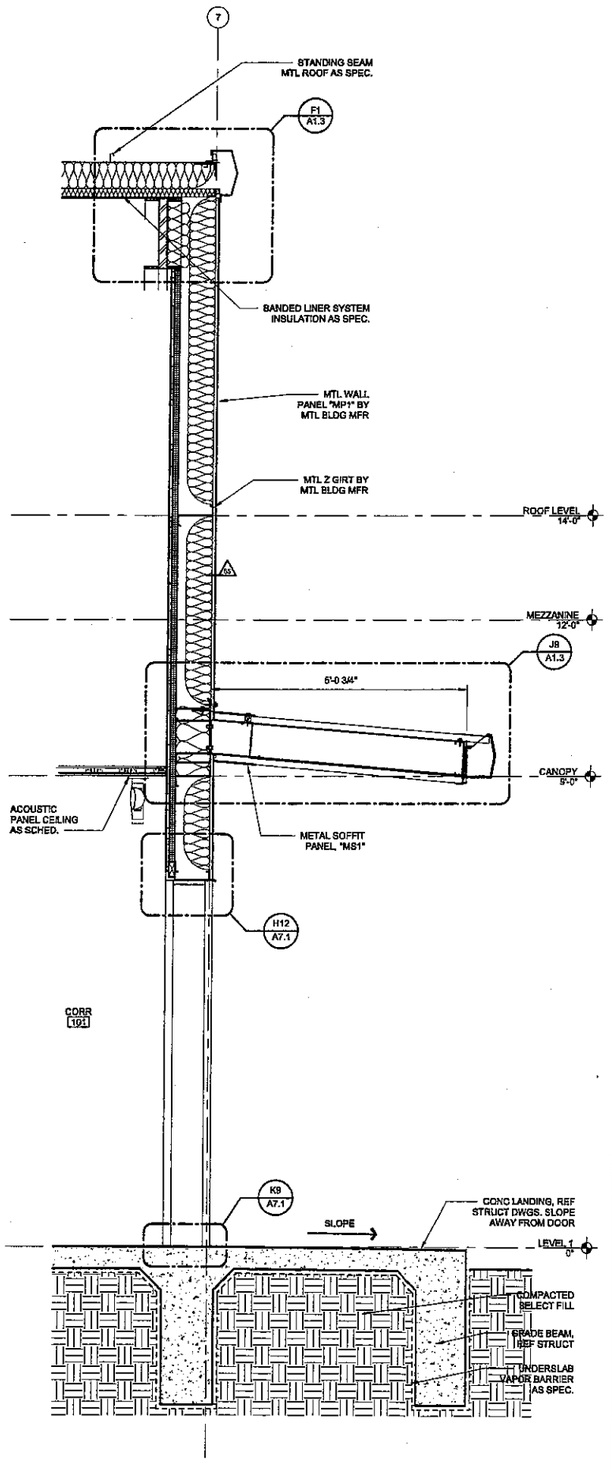
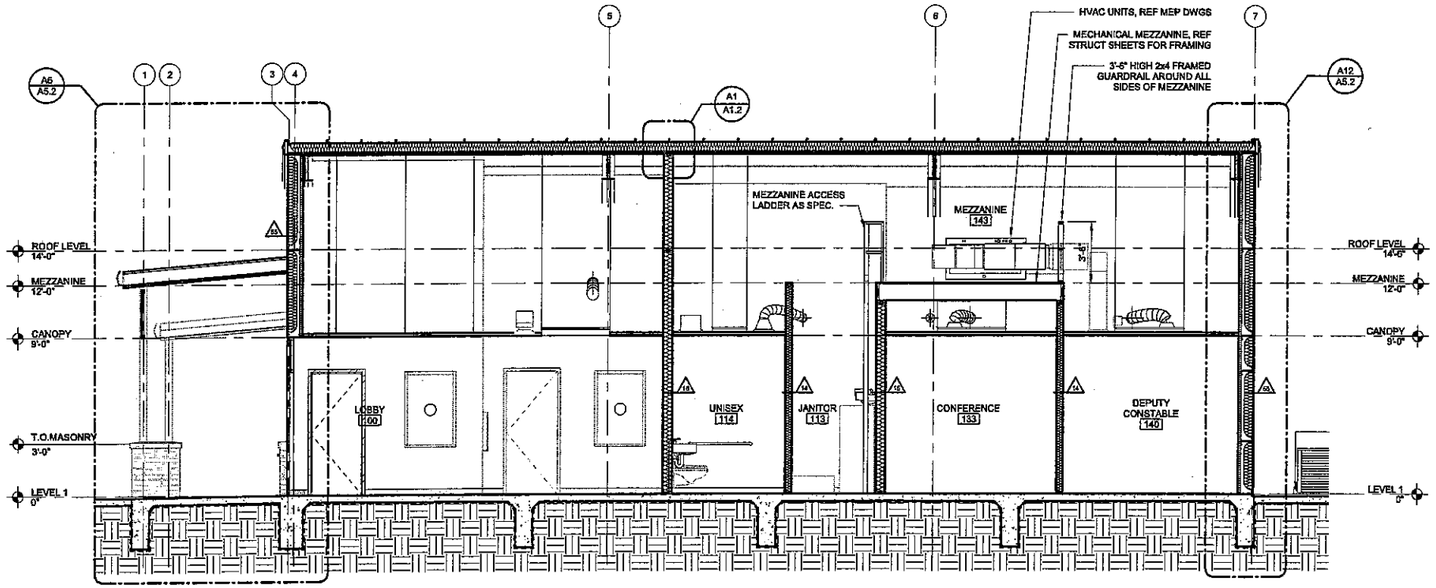


E1 BUILDING SECTION
1/4" = 1'-0"



A11 WALL SECTION
3/4" = 1'-0"



A1 BUILDING SECTION
1/4" = 1'-0"

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BRADLEY WADE KOCUREK
REGISTERED ARCHITECT
REGISTRATION NO. 22147
STATE OF TEXAS

Final Plans for Bidding and Construction

BRADLEY WADE KOCUREK 22147 REGISTERED ARCHITECT STATE OF TEXAS 3.28.19

JUSTICE OF THE PEACE PRECINCT 3 BUILDING
GONZALES COUNTY

1812 E US-90, WAELDER, TX

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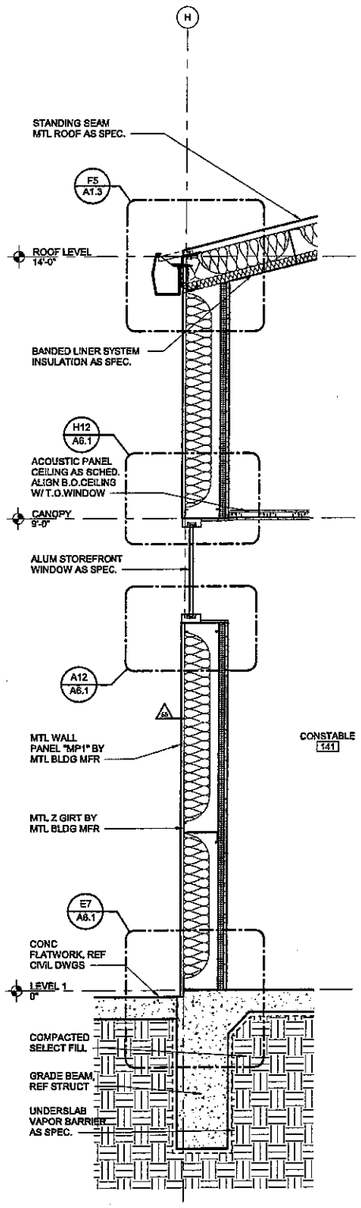
DATE ISSUED:
March 28, 2019

PROJECT NUMBER:
872-1118

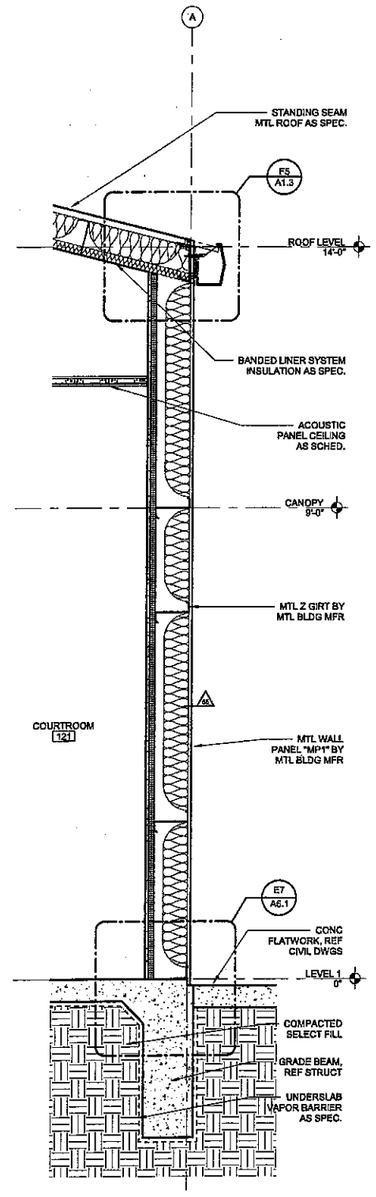
PLAN NORTH TRUE NORTH

SHEET NAME
BUILDING & WALL SECTIONS

SHEET NUMBER
A5.1



A1 WALL SECTION
3/4" = 1'-0"



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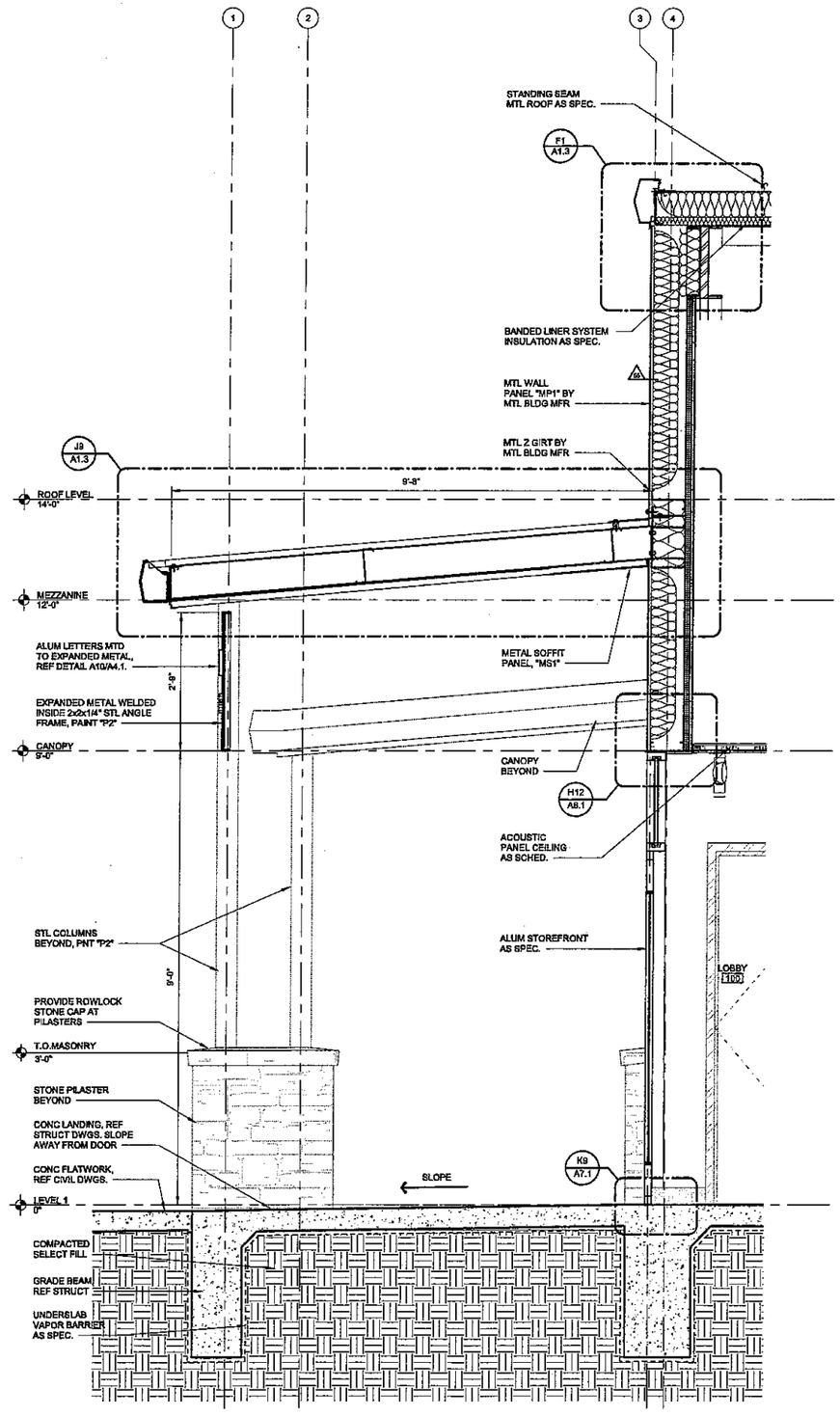

A6 WALL SECTION
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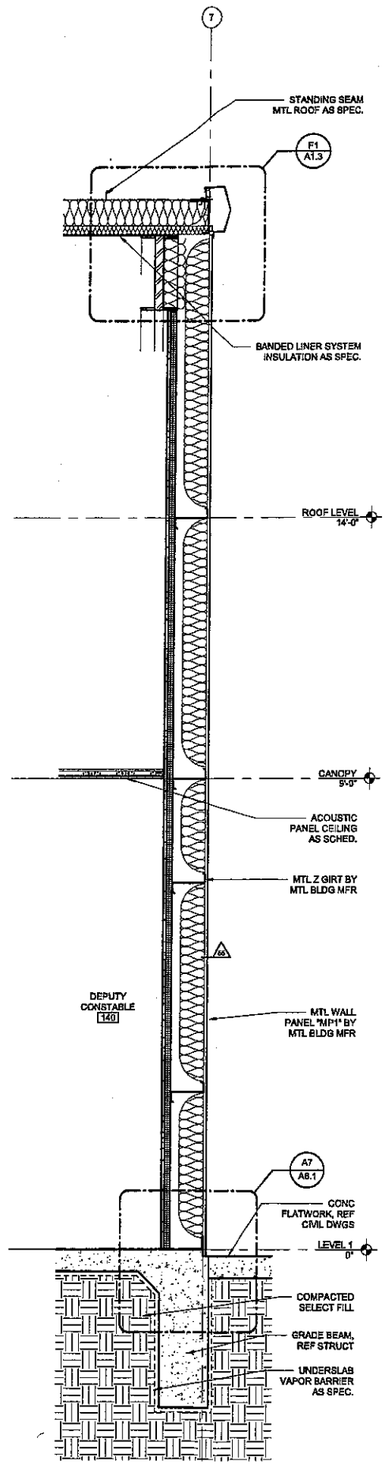

A12 WALL SECTION
3/4" = 1'-0"

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3.28.19

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GONZALES COUNTY

1512 E US-90, WAELDER, TX

DATE ISSUED:
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PROJECT NUMBER:
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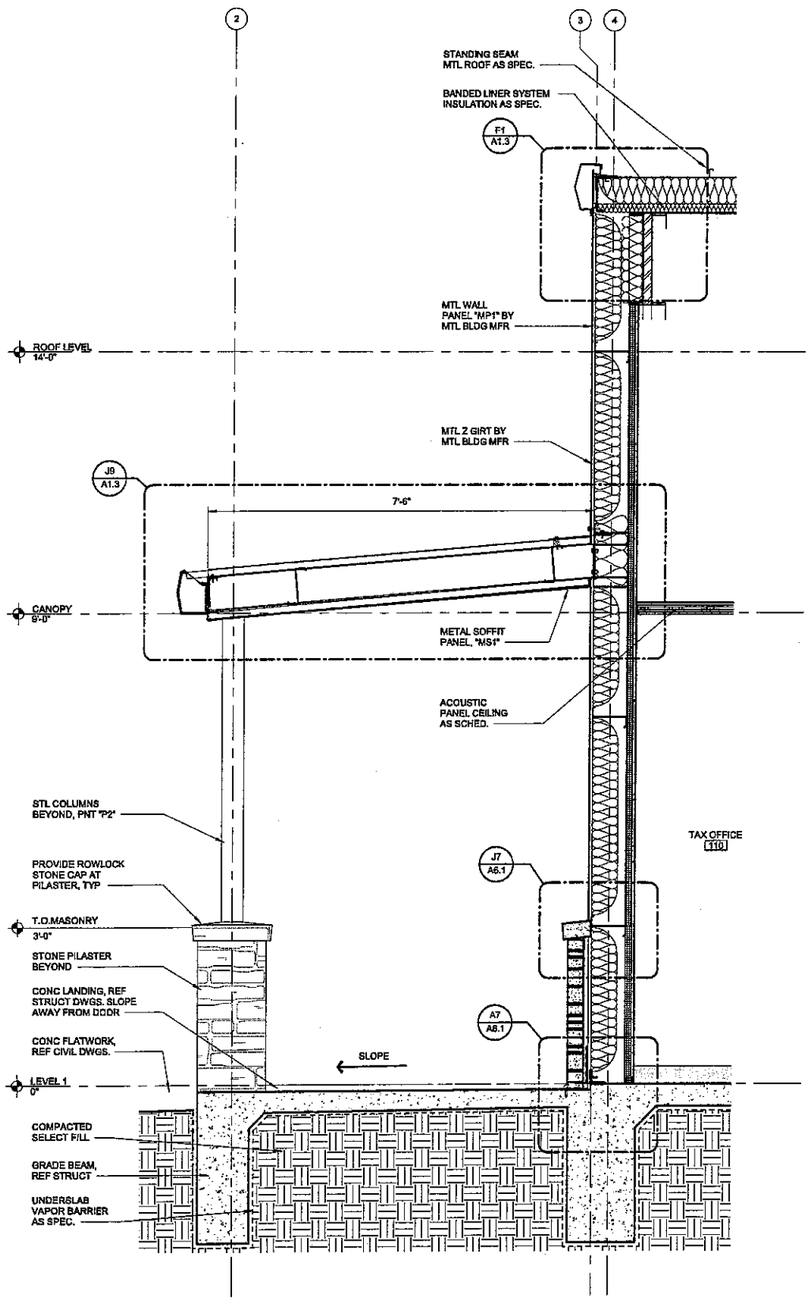
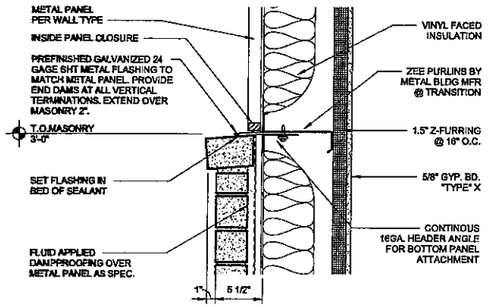
PLAN NORTH / TRUE NORTH

SHEET NAME
WALL SECTIONS

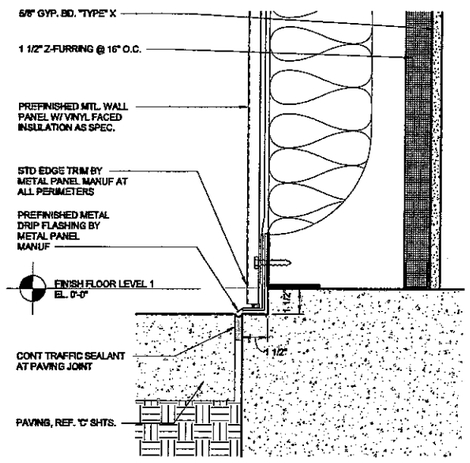
SHEET NUMBER
A5.2



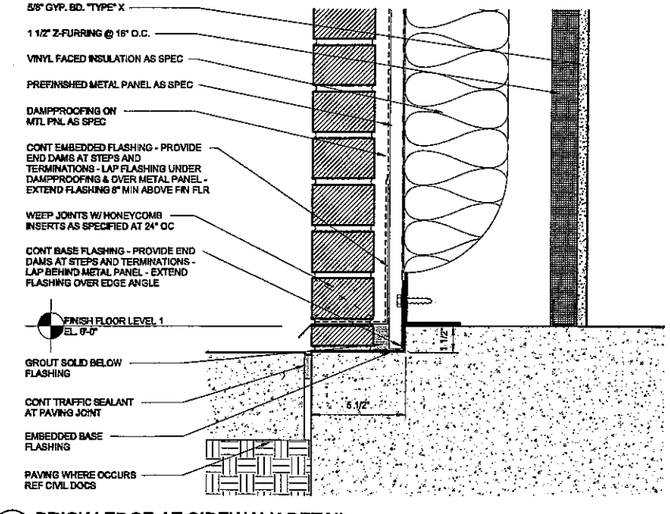
A1 WALL SECTION
3/4" = 1'-0"



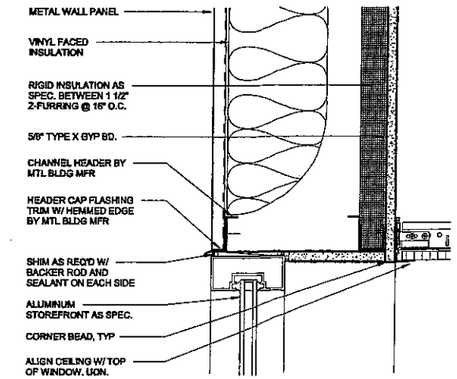
J7 SECTION DETAIL
1 1/2" = 1'-0"



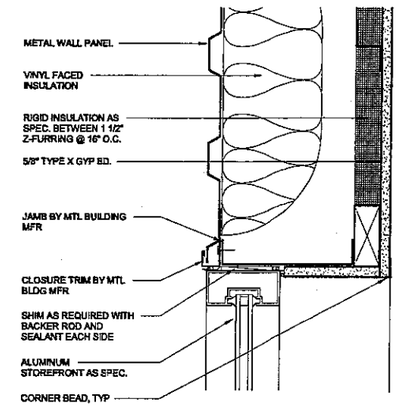
E7 METAL PANEL LEDGE @ SIDEWALK DETAIL
3" = 1'-0"



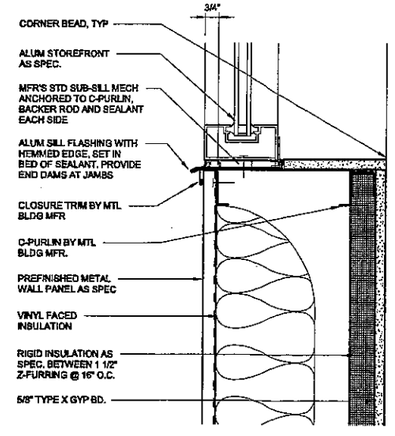
A7 BRICK LEDGE AT SIDEWALK DETAIL
3" = 1'-0"



H12 ALUMINUM STOREFRONT HEAD DETAIL
3" = 1'-0"



E12 ALUM STOREFRONT JAMB DETAIL
3" = 1'-0"



A12 ALUMINUM STOREFRONT SILL
3" = 1'-0"

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JUSTICE OF THE PEACE PRECINCT 3 BUILDING
GONZALES COUNTY

1812 E US-90, WAELDER, TX

6025 RAWLEY MCCOY & ASSOCIATES

DATE ISSUED:
March 28, 2019

PROJECT NUMBER:
872-1118

PLAN NORTH / TRUE NORTH

SHEET NAME
SECTION & ROOF DETAILS

SHEET NUMBER
A6.1

4/1/2019 1:29:18 PM
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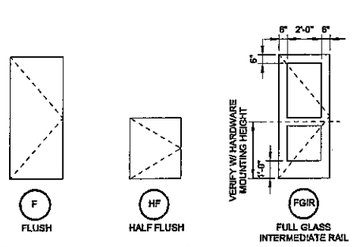
DOOR SCHEDULE

DOOR NUMBER	DOOR TYPE	FIRE RATING	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICKNESS	DOOR MATERIAL	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS
100	FGIR		3'-0"	7'-0"	1 3/4"	ALUM	GL-2	A1	ALUM	H12/A6.1	E12/A6.1 & A12/A7.1	K9/A7.1	PROVIDE DRIP AT HEAD OF DOOR
101A	F		3'-0"	7'-0"	1 3/4"	STL	NA	S1	STL	H12/A7.1	D12/A7.1	K9/A7.1	PAINT EXTERIOR "P1", PAINT INTERIOR "P2", PROVIDE PEEP HOLE, PROVIDE DRIP AT HEAD OF DOOR
101B	F		3'-0"	7'-0"	1 3/4"	WD	NA	S1	STL	J6/A7.1	F6/A7.1	-	PREFINISHED METAL FRAME
110	F		3'-0"	7'-0"	1 3/4"	WD	NA	S1	STL	J5/A7.1	F6/A7.1	-	PREFINISHED METAL FRAME
111	F		3'-0"	7'-0"	1 3/4"	WD	NA	S1	STL	J5/A7.1	F6/A7.1	-	PREFINISHED METAL FRAME
112	F		3'-0"	7'-0"	1 3/4"	WD	NA	S1	STL	J5/A7.1	F6/A7.1	-	PREFINISHED METAL FRAME
113	F		3'-0"	7'-0"	1 3/4"	WD	NA	W1	WD	C5/A7.1	A5/A7.1	-	
114	F		3'-0"	7'-0"	1 3/4"	WD	NA	W1	WD	C5/A7.1	A5/A7.1	-	
120A	F		3'-0"	7'-0"	1 3/4"	WD	NA	S1	STL	J5/A7.1	F6/A7.1	-	PREFINISHED METAL FRAME
120B	F		3'-0"	7'-0"	1 3/4"	STL	NA	S1	STL	H12/A7.1	D12/A7.1	K9/A7.1	PAINT EXTERIOR "P1", PAINT INTERIOR "P2", PROVIDE DRIP AT HEAD OF DOOR
121A	F		3'-0"	7'-0"	1 3/4"	WD	NA	W1	WD	C5/A7.1	A5/A7.1	-	
121B	HF		3'-0"	3'-0"	1 3/4"	WD	NA	W1	WD	-	A5/A7.1	-	
122	F		3'-0"	7'-0"	1 3/4"	WD	NA	W1	WD	C5/A7.1	A5/A7.1	-	
130	F		3'-0"	7'-0"	1 3/4"	WD	NA	S1	STL	J6/A7.1	F6/A7.1	-	PREFINISHED METAL FRAME
132A	F		3'-0"	7'-0"	1 3/4"	WD	NA	W1	WD	C5/A7.1	A5/A7.1	-	
132B	F		3'-0"	7'-0"	1 3/4"	WD	NA	W1	WD	C5/A7.1	A5/A7.1	-	
133	F		3'-0"	7'-0"	1 3/4"	WD	NA	W1	WD	C5/A7.1	A5/A7.1	-	
140	F		3'-0"	7'-0"	1 3/4"	WD	NA	W1	WD	C5/A7.1	A5/A7.1	-	
141	F		3'-0"	7'-0"	1 3/4"	WD	NA	W1	WD	C5/A7.1	A5/A7.1	-	
145	F		3'-0"	7'-0"	1 3/4"	WD	NA	W1	WD	C5/A7.1	A5/A7.1	-	

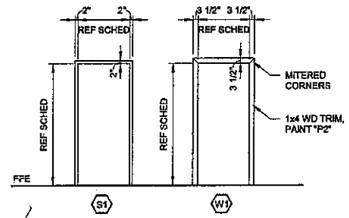
Grand total: 20

DOOR NOTES:

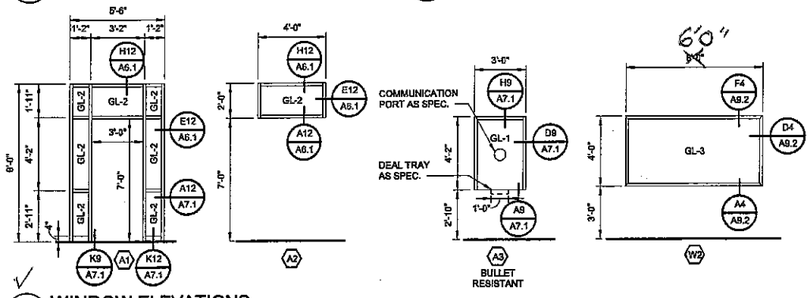
1. INTERIOR THRESHOLDS SHOULD NOT EXCEED 1/2" IN HEIGHT AND SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
2. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS SHALL BE MOUNTED AT 3'-6" A.F.F. AND SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOESNT REQUIRE TIGHT GRASPING OR PINCHING, OR SEVERE TWISTING TO OPERATE.
3. THE FORCE REQUIRED TO ACTIVATE DOOR HARDWARE AND OPEN DOORS SHOULD BE NO GREATER THAN 5 LBFT FOR INTERIOR DOORS.
4. DOORS TO HAZARDOUS AREAS SUCH AS LOADING PLATFORMS, BOILER ROOMS, MECHANICAL AND ELECTRICAL ROOMS AND OTHER AREAS THAT MIGHT BE DANGEROUS TO A BLIND PERSON SHALL BE MADE IDENTIFIABLE TO THE TOUCH BY A TEXTURED SURFACE ON THE DOOR HANDLE OR OTHER DOOR OPERATING HARDWARE.
5. THE SWEEP PERIOD ON ANY DOORS WITH CLOSERS SHOULD BE ADJUSTED SO THAT FROM ANY OPEN POSITION OF 70 DEGREES THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED FROM THE LEADING EDGE OF THE DOOR.
6. ADJUST CUT-OFF AT BOTTOM OF ANY EXTERIOR HOLLOW METEL DOORS WITH HANDICAP ACCESSIBLE THRESHOLDS TO INSURE THAT THERE IS NO GAP BETWEEN THE BOTTOM OF THE DOOR AND THE TOP OF THRESHOLD SEAT.
7. ALL DOORS SHALL MEET T.A.S. REQUIREMENTS FOR CLEARANCES, HARDWARE, ETC.



E1 DOOR TYPES
1/4" = 1'-0"



E3 FRAME TYPES
1/4" = 1'-0"



C1 WINDOW ELEVATIONS
1/4" = 1'-0"

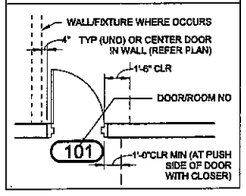
FRAME TYPE LEGEND

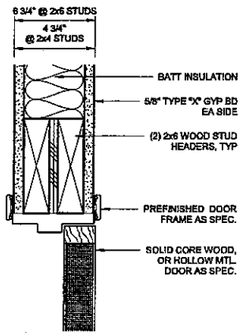
- WF WOOD (WD) FRAME TYPE
- SF STEEL (HM) FRAME TYPE
- AF ALUMINUM (STOREFRONT) FRAME TYPE

GLAZING LEGEND

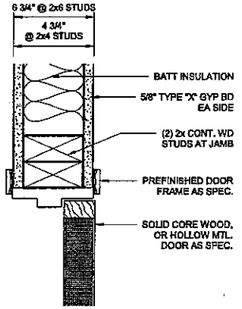
REF SHEET A6.1 MATERIAL SCHEDULE FOR GLASS TYPES
GL-1 CLEAR BULLET RESISTANT GLASS
GL-2 TINTED INSUL SAFETY GLASS
GL-3 ONE WAY GLASS

DOOR MARK LEGEND

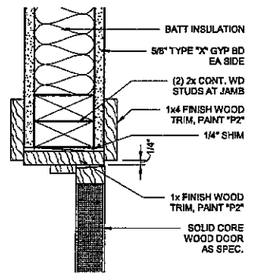




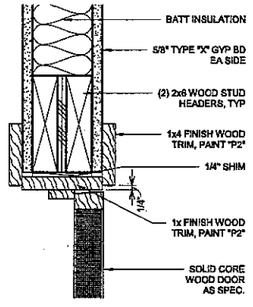
J6 PREFINISHED HEAD DETAIL
3" = 1'-0"



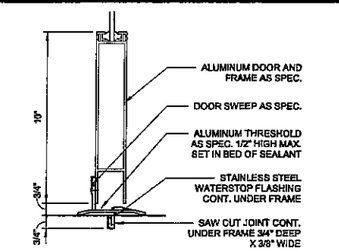
F6 PREFINISHED JAMB DETAIL
3" = 1'-0"



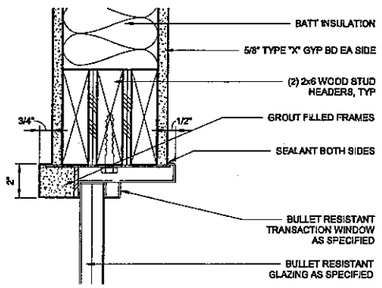
C6 WOOD FRAME JAMB DETAIL
3" = 1'-0"



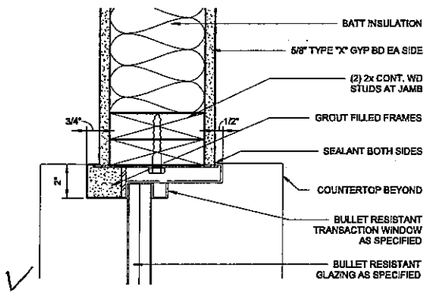
A6 WOOD FRAME HEAD DETAIL
3" = 1'-0"



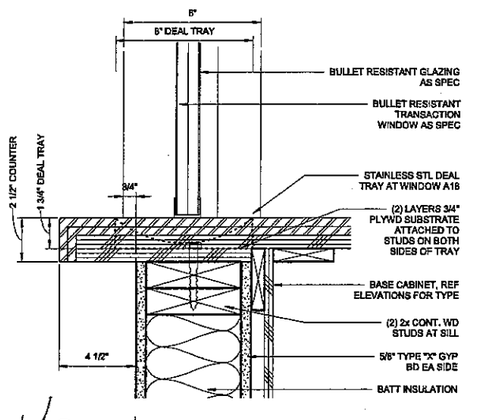
K9 ALUM DOOR THRESHOLD DETAIL
3" = 1'-0"



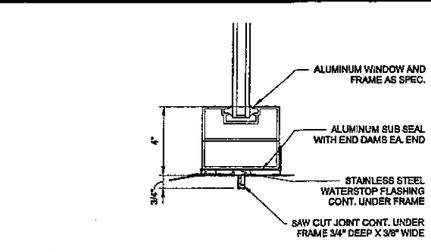
H9 BULLET RESISTANT HEAD DETAIL
3" = 1'-0"



D9 BULLET RESISTANT JAMB DETAIL
3" = 1'-0"

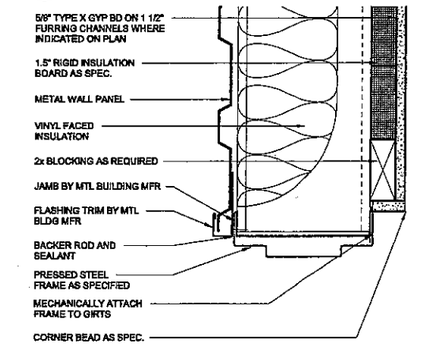


A9 BULLET RESISTANT SILL DETAIL
3" = 1'-0"

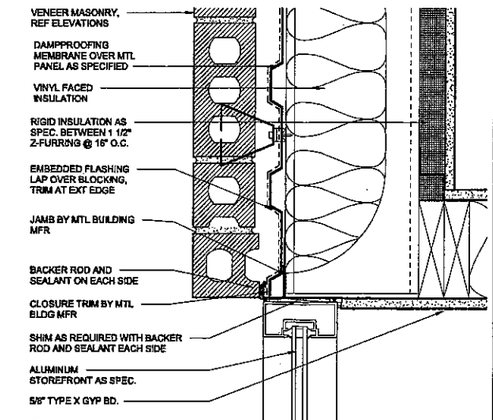


K12 ALUM SILL DETAIL
3" = 1'-0"

H12 STEEL HEAD DETAIL
3" = 1'-0"



D12 STEEL JAMB DETAIL
3" = 1'-0"



A12 ALUM JAMB DETAIL
3" = 1'-0"

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1812 E US-90, WAELDER, TX

DATE ISSUED:
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PROJECT NUMBER:
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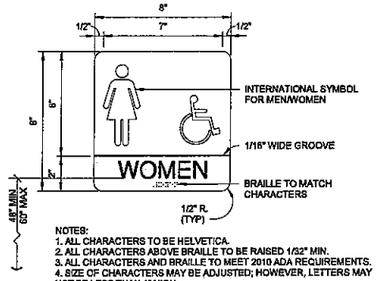
PLAN NORTH / TRUE NORTH

SHEET NAME
DOOR SCHEDULE, DETAILS & WINDOW ELEVATIONS

SHEET NUMBER
A7.1

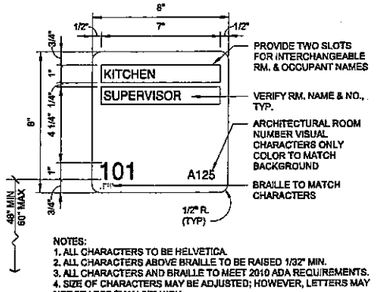
MATERIAL SCHEDULE

MATERIAL	MARK	MANUFACTURER	STYLE	MFR. NO.	COLOR	LOCATION
ACOUSTIC PANEL CEILING	APC1	ROCKFON, 24x24	ARCTIC	SQ 600	WHITE	
ALUMINUM STOREFRONT	AL1	KAWNEER	TRIFAB	VG 451T	CLEAR ANNODIZED	EXTERIOR
ALUMINUM STOREFRONT	AL2	KAWNEER	TRIFAB	450	CLEAR ANNODIZED	INTERIOR
CARPET	CRP1	J+J FLOORING GROUP	OUTFITTER MODULAR (18x36, PARQUET)	7064	2396 TWEED	COURTROOM, OFFICES
CERAMIC WALL TILE	CT1	ATLAS CONCORDE USA	REDEEM - 7 3/4"X39 3/8" PLANK	-	ASH	COURTROOM
CERAMIC WALL TILE	CT2	ATLAS CONCORDE USA	REDEEM - 11 3/4"X11 3/4" TATAMI	-	ASH	RESTROOMS
CONCRETE - SEALED	CSL1	AS SPECIFIED	AS SPECIFIED	-	CLEAR	
CONCRETE - STAINED	CST1	AS SPECIFIED	AS SPECIFIED	-	AS SPECIFIED	HALLWAYS, RESTROOMS, STORAGE, JANITOR
GLASS	GL-1	PPG	BULLET RESISTANT LAMINATED GLASS	-	CLEAR	TRANSACTION WINDOWS
GLASS	GL-2	PPG	SOLABAN 60 (3) + CLEAR	-	SOLARCOOL (2) + SOLARGRAY	EXTERIOR GLAZING
GLASS	GL-3	PILKINGTON	BINLGE PANE - MIRRORPANE	-	GREY	INTERIOR ONE WAY VISION GLAZING
GROUT	GT1	LATICRETE	-	60	DUSTY GREY	CT1 & CT2
METAL ROOF	MR1	CECO	BATTENLOK HS	-	GALVALUME	
METAL SOFFIT PANEL	MS1	MBCI - ARTISAN SERIES	L12	SIGNATURE 200	POLAR WHITE	
METAL WALL PANEL	MP1	CECO	PBU	SIGNATURE 200	CHARCOAL GRAY	
PAINT	P1	SHERWIN WILLIAMS	-	SW 7064	PASSIVE	STANDARD WALL COLOR
PAINT	P2	SHERWIN WILLIAMS	-	SW 7069	IRON ORE	EXTERIOR STEEL, STEEL DOOR FRAMES, STEEL DOORS,
PAINT	P3	SHERWIN WILLIAMS	-	SW 7018	DOVETAIL	ACCENT COLOR
PLASTIC LAMINATE	PL1	NEVAMAR	TEXTURED FINISH	WK0017T	VENERABLE OLD OAK	BASE CABINETS, UPPER CABINETS
PLASTIC LAMINATE	PL2	NEVAMAR	TEXTURED FINISH	S6054-T	WROUGHT IRON	COUNTERTOPS BASE BID
PLASTIC LAMINATE	PL3	NEVAMAR	TEXTURED FINISH	WM5626E	VERMONT MAPLE	PLASTIC LAMINATE DOORS
PLASTIC LAMINATE	PL4	NEVAMAR	TEXTURED FINISH	S6012-T	NATURAL GRAY	SIGNAGE
PREFINISHED METAL	PM1	CECO	-	SIGNATURE 200	POLAR WHITE	GUTTERS, DOWNSPOUTS, RAKES, EXTERIOR METAL TRIM, BUILDING SIGNAGE, METAL LOCKERS
PREFINISHED METAL	PM2	CECO	-	SIGNATURE 200	CHARCOAL GRAY	LOUVERS
RUBBER BASE	RB1	JOHNSONITE	4" COVE	TA4	GATEWAY	
SOLID SURFACE	SS1	CORIAN	-	-	NIGHT SKY	COUNTERTOPS ALTERNATE #3
STONE	ST1	TEXAS QUARRIES	ROUGHBACK, RANDOM ASHLAR	-	CORDOBA CREAM	
TOILET PARTITION	TP1	SCRANTON PRODUCTS	HINY HIDERS - GRIP EX	-	CONCRETE	
WINDOW BLINDS	WB1	LEVOLOR	RIVIERA CLASSIC 1"	-	34 BRUSHED ALUMINUM	WINDOWS A2, A3, W2



NOTES:
1. ALL CHARACTERS TO BE HELVETICA.
2. ALL CHARACTERS ABOVE BRAILLE TO BE RAISED 1/32" MIN.
3. ALL CHARACTERS AND BRAILLE TO MEET 2010 ADA REQUIREMENTS.
4. SIZE OF CHARACTERS MAY BE ADJUSTED; HOWEVER, LETTERS MAY NOT BE LESS THAN 1" HIGH.
5. SIGN FACE & BACK SHALL BE "PL4".
6. PROVIDE SIGN AT ROOMS 111, 112, AND 114.

C1 TYPICAL HANDICAP SIGN
3" = 1'-0"



NOTES:
1. ALL CHARACTERS TO BE HELVETICA.
2. ALL CHARACTERS ABOVE BRAILLE TO BE RAISED 1/32" MIN.
3. ALL CHARACTERS AND BRAILLE TO MEET 2010 ADA REQUIREMENTS.
4. SIZE OF CHARACTERS MAY BE ADJUSTED; HOWEVER, LETTERS MAY NOT BE LESS THAN 5/8" HIGH.
5. SIGN FACE & BACK SHALL BE "PL4".
6. PROVIDE ONE SIGN AT EACH DOOR (14).

A1 TYPICAL INTERIOR SIGN
3" = 1'-0"

FINISH TAG KEY

APC2 / P1 / RB1 / VWT2 — CEILING TYPE, WALL FINISH, UNO, BASE TYPE, FLOOR FINISH

① — FINISH KEYNOTE

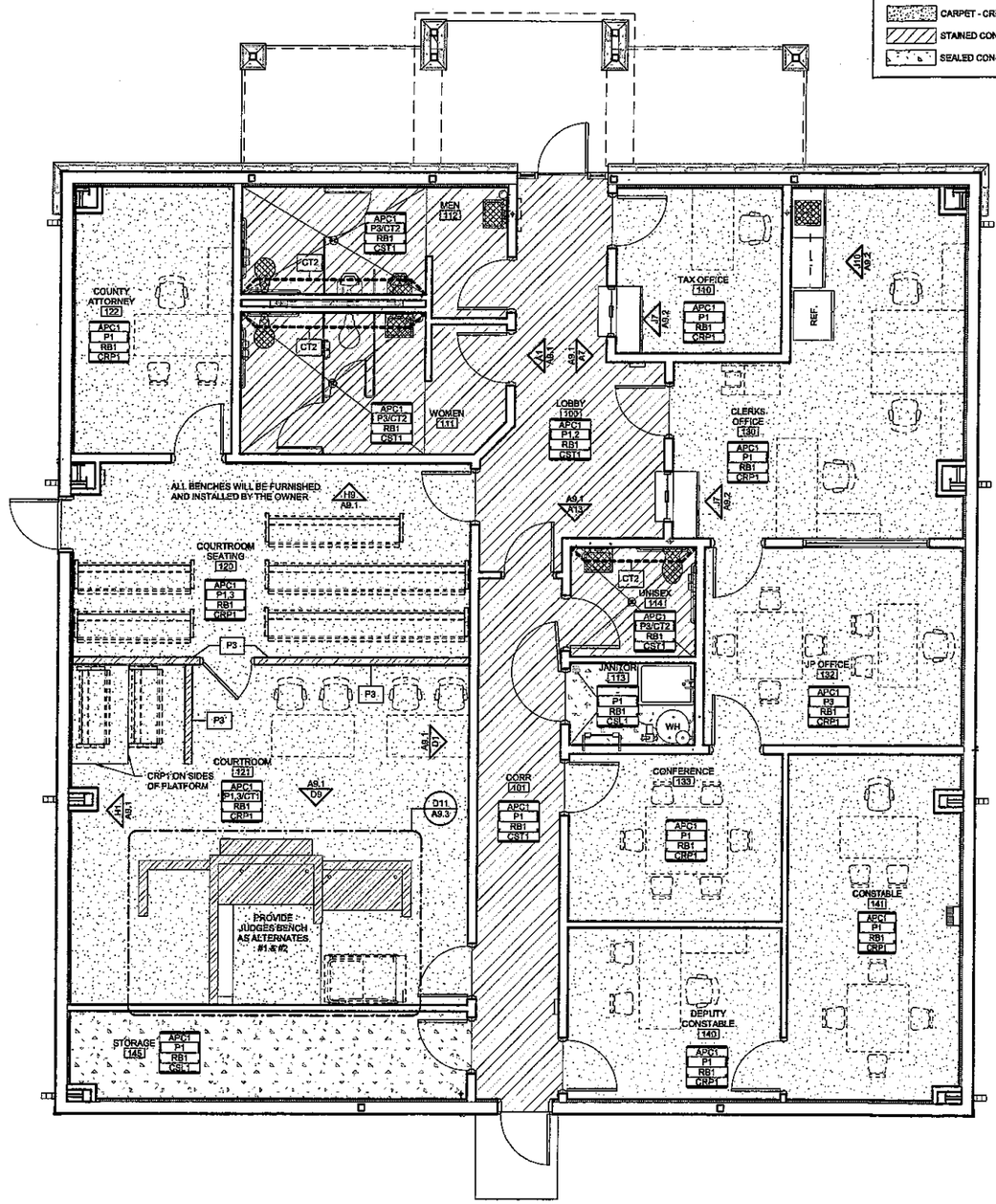
P1 — MATERIAL TAG (REF SHEET A5.1 FOR MATERIAL SCHEDULE)

FLOOR PATTERN LEGEND

CARPET - CRP1

STAINED CONCRETE - CST1

SEALED CONCRETE - CSL1



A7 LEVEL 1 FINISH PLAN
1/4" = 1'-0"

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STATE OF TEXAS

Final Plans for Bidding and Construction

REGISTERED ARCHITECT Bradley Wade Kocurek 22147 STATE OF TEXAS
3.28.19

JUSTICE OF THE PEACE PRECINCT 3 BUILDING
GONZALES COUNTY

1612 E US-90, WAELDER, TX

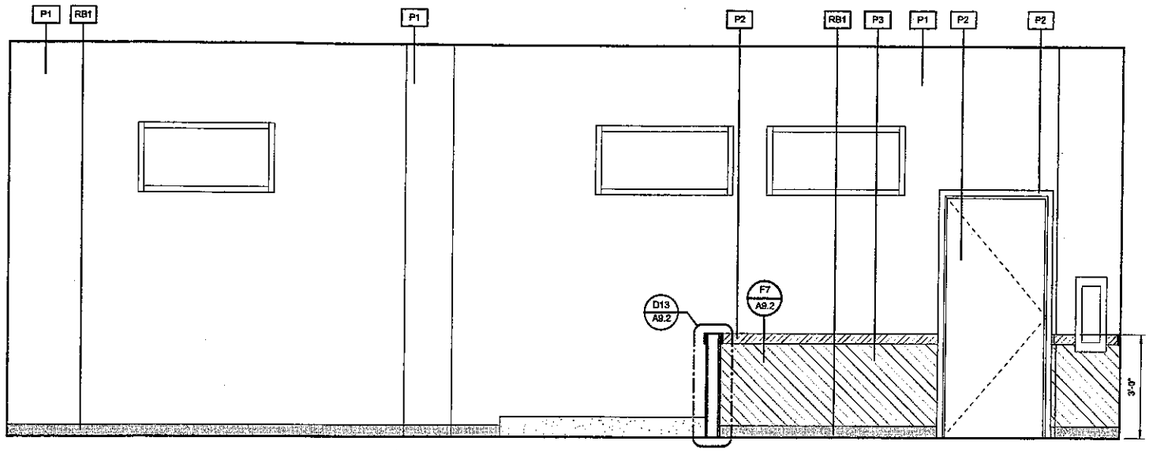
DATE ISSUED:
March 28, 2019

PROJECT NUMBER:
572-1118

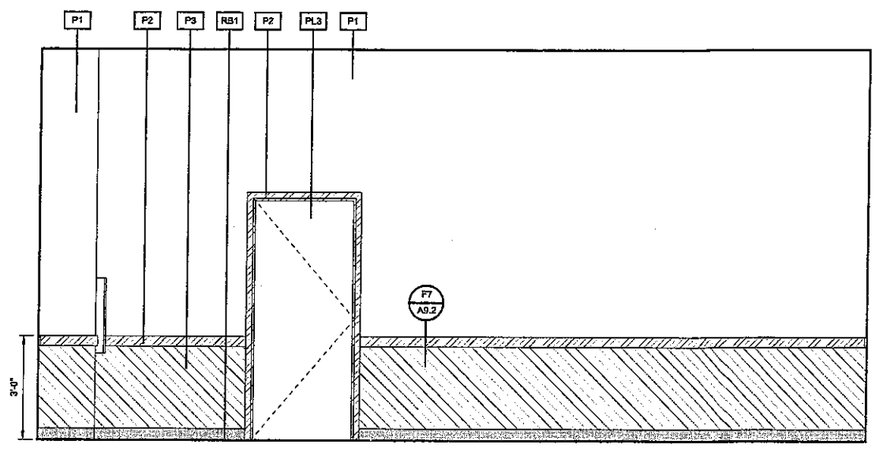
PLAN NORTH / TRUE NORTH

SHEET NAME
FINISH PLAN & MATERIAL SCHEDULE

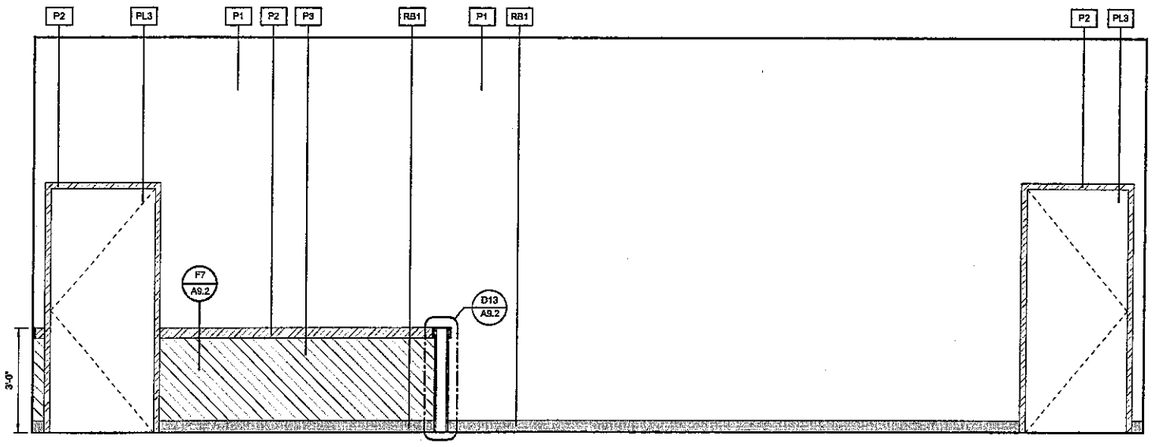
SHEET NUMBER
A8.1



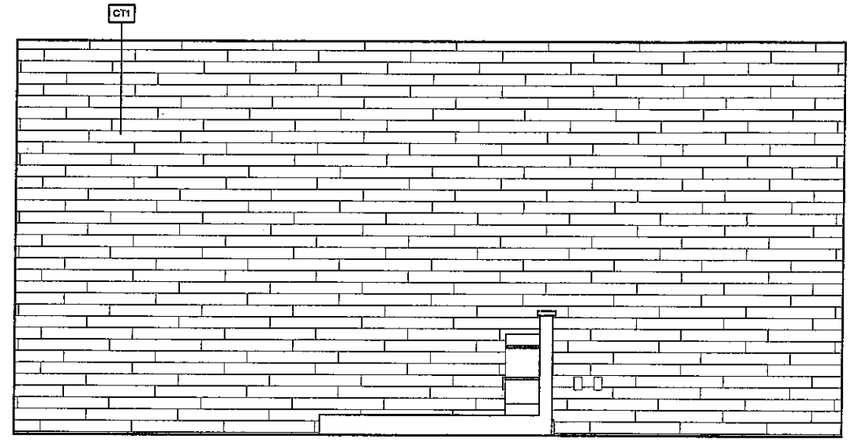
H1 INTERIOR ELEVATION - COURTROOM W
1/2" = 1'-0"



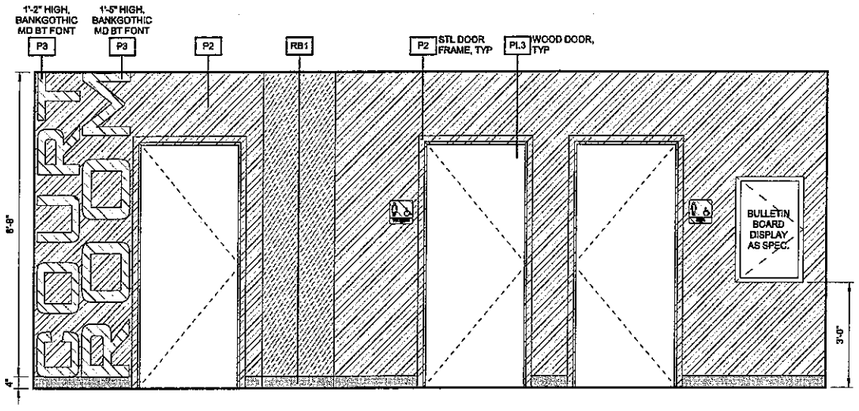
H9 INTERIOR ELEVATION - COURTROOM N
1/2" = 1'-0"



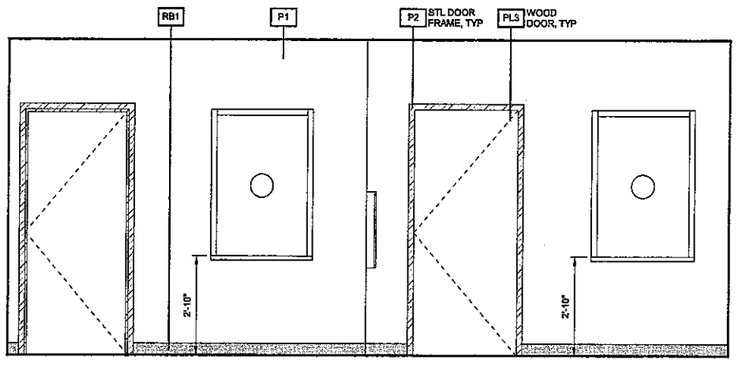
D1 INTERIOR ELEVATION - COURTROOM E
1/2" = 1'-0"



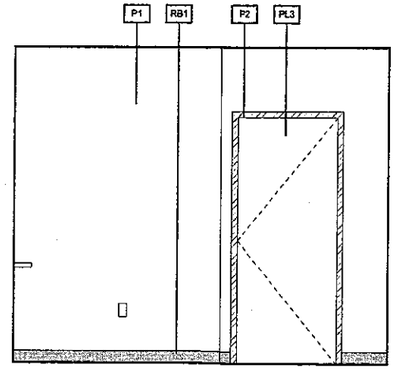
D9 INTERIOR ELEVATION - COURTROOM S
1/2" = 1'-0"



A1 INTERIOR ELEVATION - LOBBY W
1/2" = 1'-0"



A7 INTERIOR ELEVATION - LOBBY E
1/2" = 1'-0"



A13 INTERIOR ELEVATION - LOBBY S
1/2" = 1'-0"

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Final Plans for Bidding and Construction

REGISTERED ARCHITECT BRADLEY WADE KOCUREK 22147 STATE OF TEXAS
3.28.19

JUSTICE OF THE PEACE PRECINCT 3 BUILDING
GONZALES COUNTY
1812 E US-90, WAELDER, TX

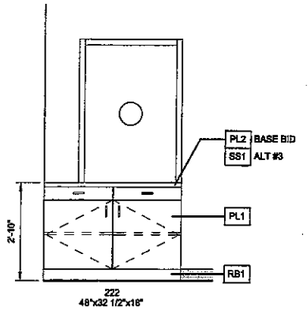
DATE ISSUED:
March 28, 2019

PROJECT NUMBER:
872-1118

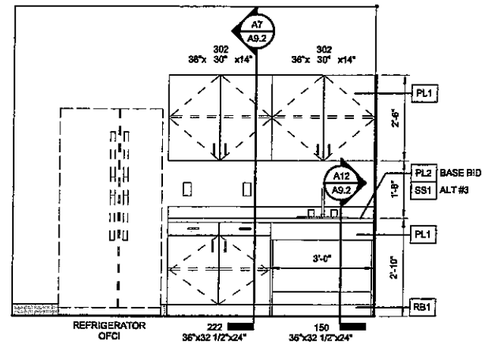
PLAN NORTH TRUE NORTH

SHEET NAME
INTERIOR ELEVATIONS

SHEET NUMBER
A9.1

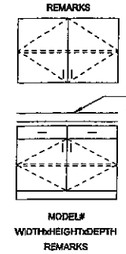


J7 CASEWORK ELEMENTATION (130,110)
1/2" = 1'-0"



J10 CASEWORK ELEVATION (130)
1/2" = 1'-0"

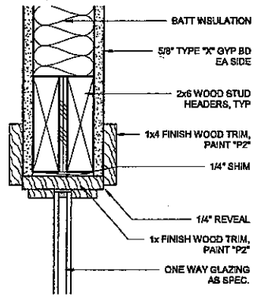
MILLWORK LEGEND



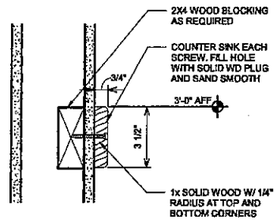
NOTE:

GENERAL MODEL NUMBERS ARE BASED ON ARCHITECTURAL WOODWORKING INSTITUTE STANDARDS AND PROVIDE A BASIS FOR DESIGN.

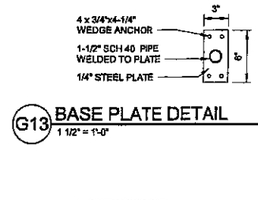
BASE CABINET HEIGHT IS GIVEN TO THE BOTTOM OF 1 1/2" COUNTER TOP



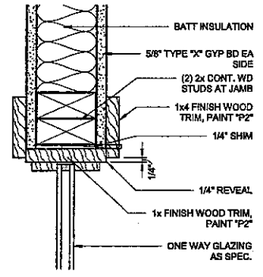
F4 WD FRAME HEAD DETAIL
3" = 1'-0"



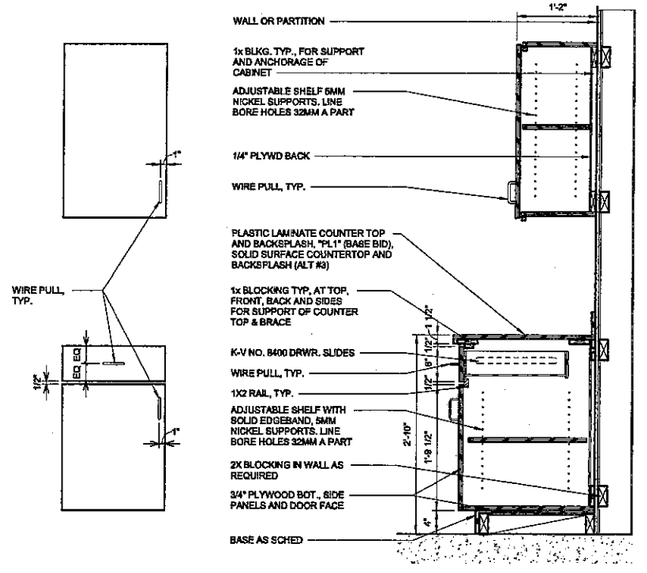
F7 CHAIRAIL DETAIL
3" = 1'-0"



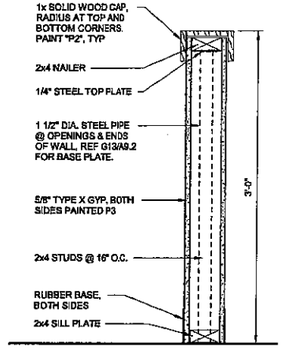
G13 BASE PLATE DETAIL
1 1/2" = 1'-0"



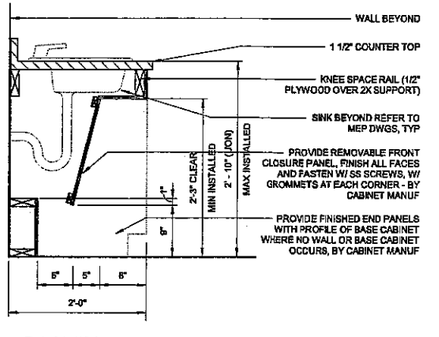
D4 WD FRAME JAMB DETAIL
3" = 1'-0"



A7 TYPICAL MILLWORK SECTION
1" = 1'-0"



D13 SECTION DTL HALF WALL
1 1/2" = 1'-0"



A12 ADA KNEESPACE DETAIL
1" = 1'-0"

A4 WOOD FRAME SILL DETAIL
3" = 1'-0"

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Final Plans for Bidding and Construction

REGISTERED ARCHITECT Bradley Wade Kocurek 22147 STATE OF TEXAS 3.25.19

JUSTICE OF THE PEACE PRECINCT 3 BUILDING
GONZALES COUNTY

1512 E US-90, WAELDER, TX

DATE ISSUED:
March 28, 2019

PROJECT NUMBER:
672-1118

PLAN NORTH TRUE NORTH

SHEET NAME
MILLWORK ELEVATIONS & DETAILS

SHEET NUMBER
A9.2

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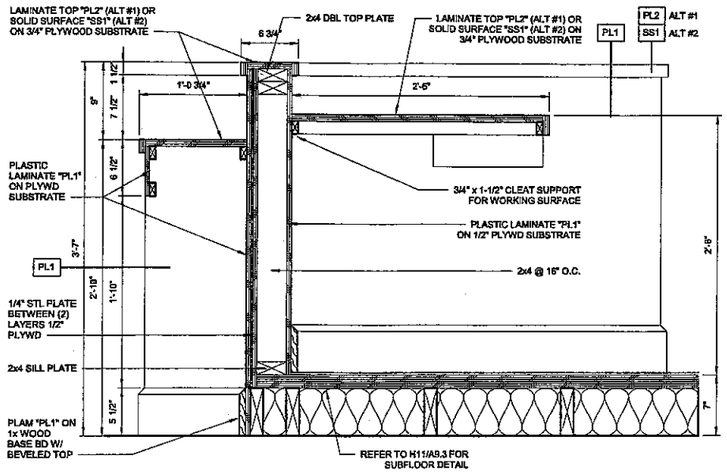
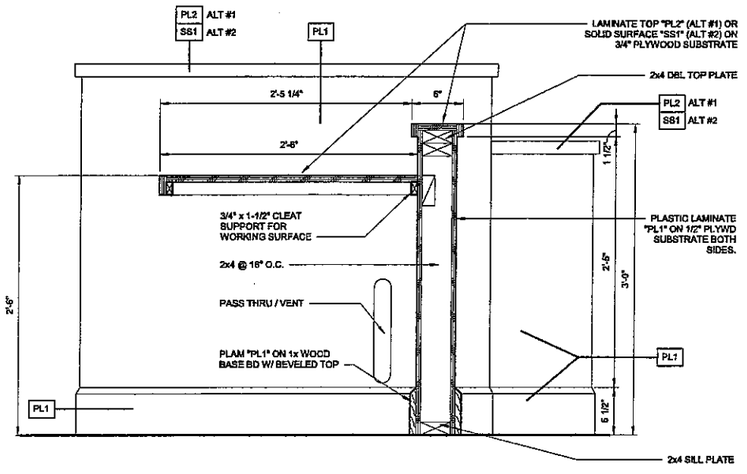
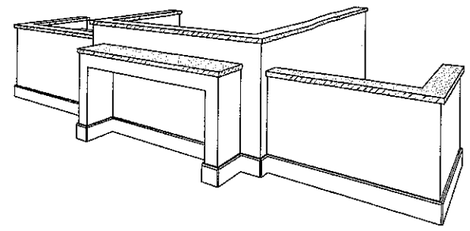


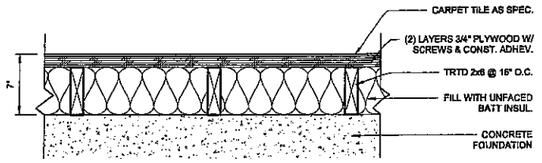
H1 JUDGES BENCH SECTION
1 1/2" = 1'-0"



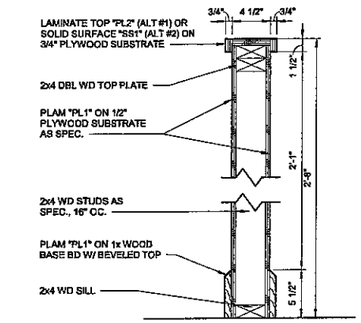
H6 JUDGES BENCH SECTION
1 1/2" = 1'-0"



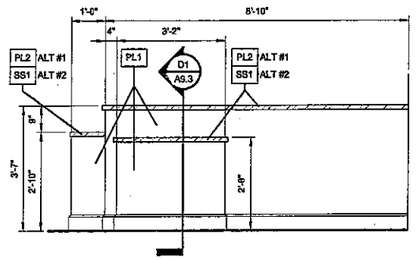
K11 JUDGES BENCH - AXIAL VIEW



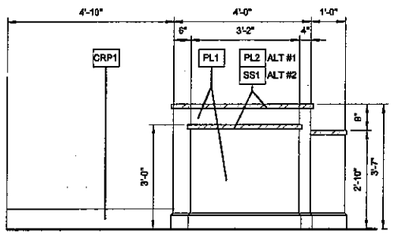
H11 RAISED SUBFLOOR DETAIL
1 1/2" = 1'-0"



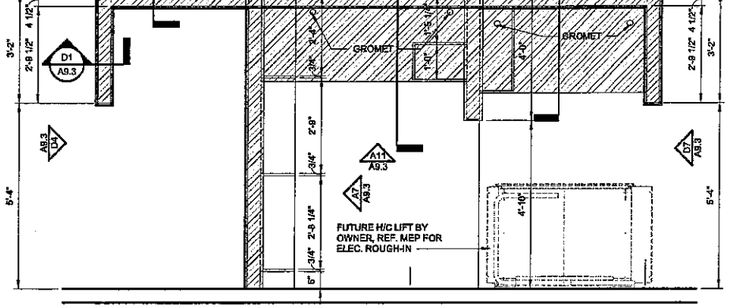
D1 JUDGES BENCH LOW WALL DETAIL
1 1/2" = 1'-0"



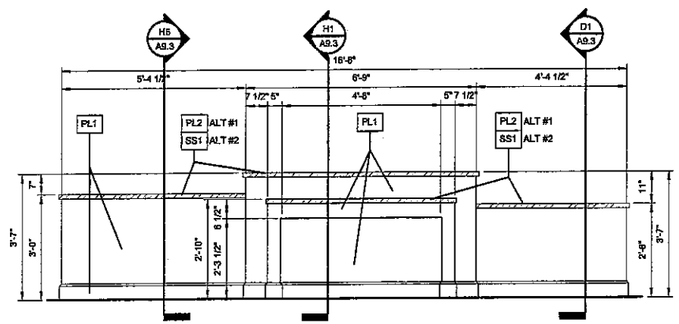
D4 JUDGES BENCH SIDE ELEVATION
1/2" = 1'-0"



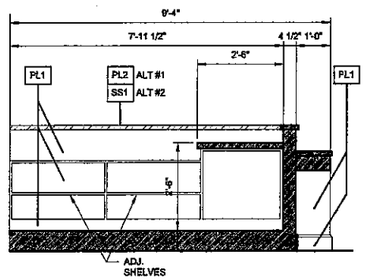
D7 JUDGES BENCH SIDE ELEVATION 2
1/2" = 1'-0"



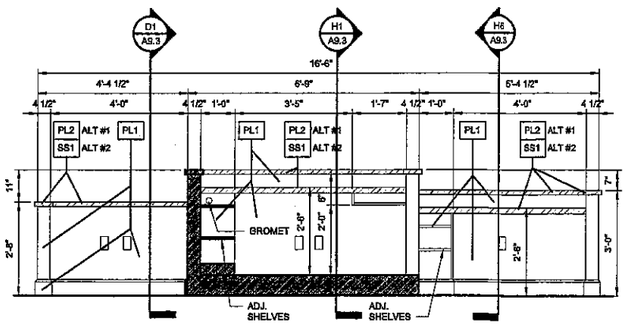
D11 JUDGES BENCH ENLARGED PLAN
1/2" = 1'-0"



A2 JUDGES BENCH FRONT ELEVATION
1/2" = 1'-0"



A7 JUDGES BENCH INTERIOR ELEVATION
1/2" = 1'-0"



A11 JUDGES BENCH REAR ELEVATION
1/2" = 1'-0"

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REGISTRATION NO. 22147
STATE OF TEXAS

Final Plans for Bidding and Construction

REGISTERED ARCHITECT Bradley Wade Kocurek 22147 STATE OF TEXAS
3.25.19

JUSTICE OF THE PEACE PRECINCT 3 BUILDING
GONZALES COUNTY
1812 E US-90, WAELDER, TX
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DATE ISSUED:
March 28, 2019

PROJECT NUMBER:
872-1118

PLAN NORTH / TRUE NORTH

SHEET NAME
JUDGES BENCH ELEVATIONS & DETAILS

SHEET NUMBER
A9.3

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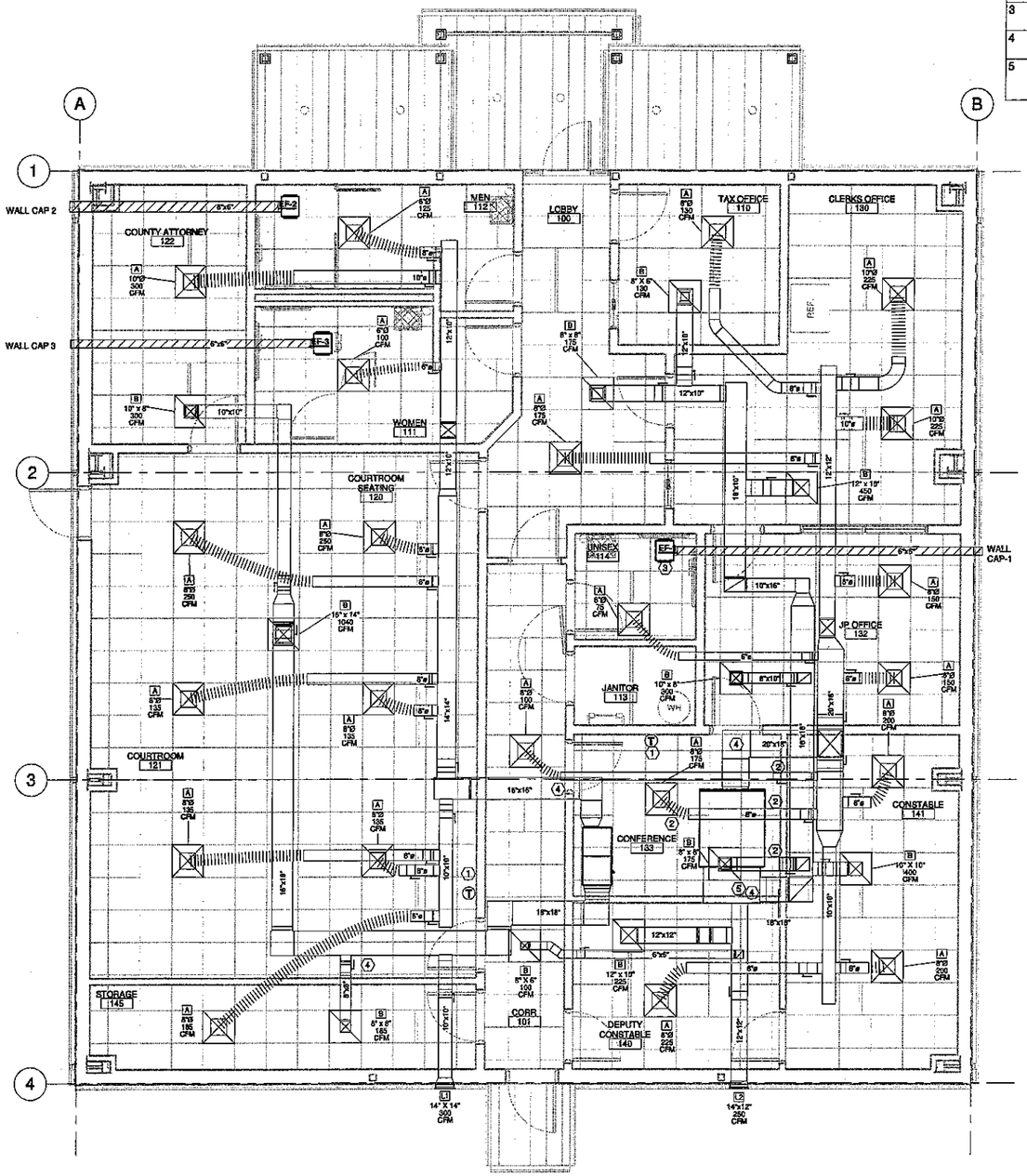
MECHANICAL KEYNOTES	
Key Value	Keynote Text
1	PROVIDE PROGRAMMABLE WALL THERMOSTAT AT 48" A.F.F. INTERLOCK WITH AIR HANDLER.
2	DUCTWORK SHALL BE RUN UNDER MEZZANINE FLOOR CONNECTING TO DIFFUSERS AS SHOWN. MAKE TRANSITIONS AS NECESSARY.
3	ROUTE 8/8 EXHAUST DUCT FROM BATHROOM EXHAUST FAN OUT TO MANUFACTURERS WALL CAP.
4	PROVIDE MANUAL BALANCING DAMPERS AT ALL RUN OFFS SHOWN OR NOT. TYPICAL ALL DUCT RUNS.
5	FABRICATE RETURN AIR PLENUM BEHIND AHU-2. MAKE TRANSITIONS TO RETURN AIR AND OUTSIDE AIR DUCTWORK AS NECESSARY



1 MECHANICAL CEILING PLAN
1/4" = 1'-0"

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Final Plans for Bidding and Construction

JUSTICE OF THE PEACE 3 BUILDING
GONZALES COUNTY
VICTORIA, TX

DATE ISSUED:
3/28/2019

PROJECT NUMBER:
872-1116

STATE OF TEXAS
SEAN M. RODRIGUEZ
86478
LICENSED PROFESSIONAL ENGINEER
03/28/19

NRG ENGINEERING
5656 S. STAPLES, SUITE 360,
CORPUS CHRISTI, TX 78411
P - 361.852.2727 F - 361.852.2922
TEXAS ENGINEERING FIRM NO.
005318

18208

PLAN NORTH / TRUE NORTH

SHEET NAME
MECHANICAL CEILING PLAN

SHEET NUMBER
M1.1

3/26/2019 10:18:17 AM
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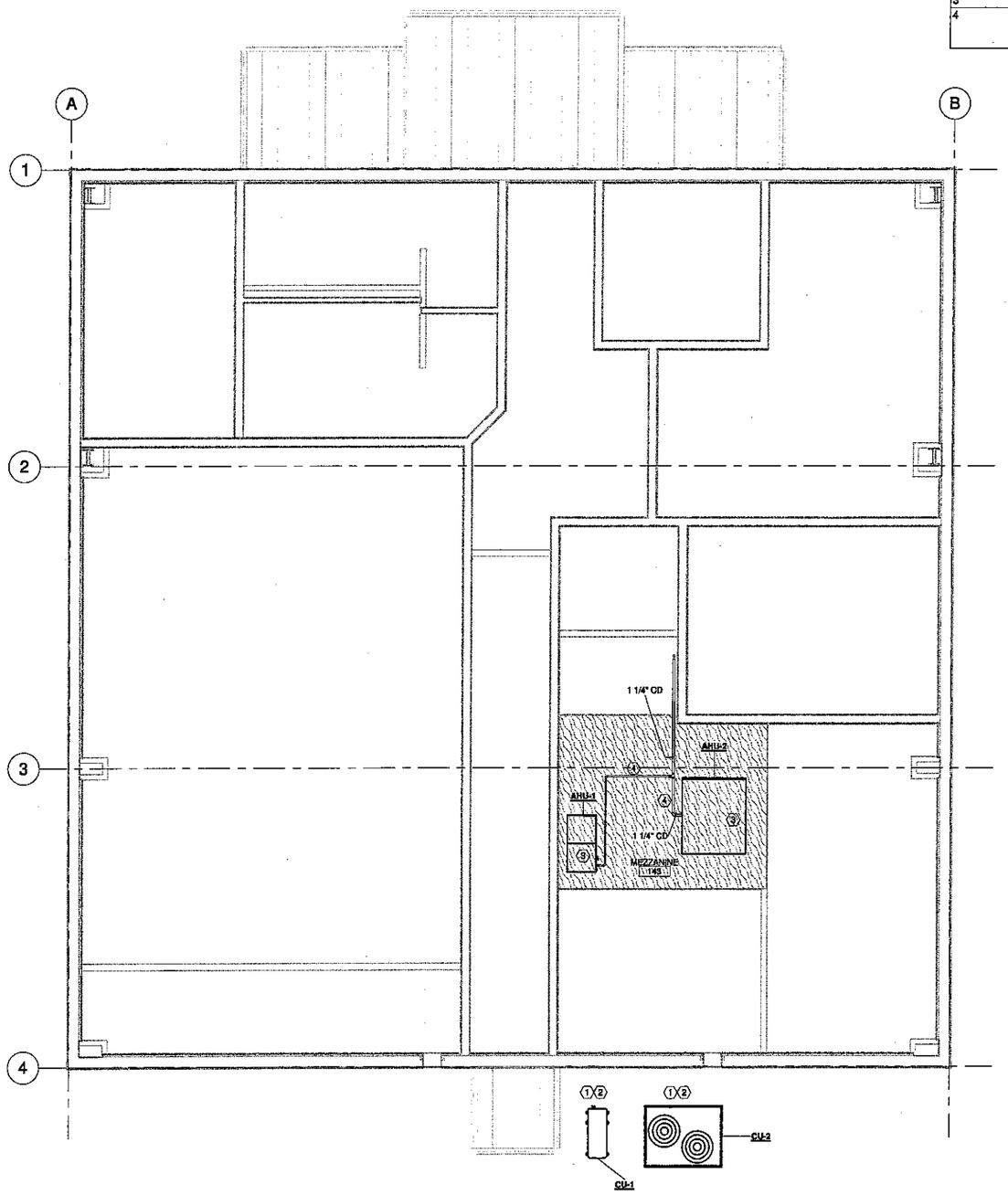
MECHANICAL KEYNOTES	
Key Value	Keynote Text
1	CONDENSING UNITS SHALL HAVE A MINIMUM OF 2' CLEARANCE FROM WALL AND OTHER UNITS.
2	PROVIDE 4" HOUSEKEEPING PAD UNDER UNIT
3	INSTAL AHU IN HORIZONTAL POSITION IN MEZZANINE
4	ROUTE CONDENSATE TO MOP SINK IN JANITOR ROOM. TIE 3/4" LINE FROM AHU-1 INTO 1-1/4" LINE FROM AHU-2 AND REMAIN 1-1/4" TO TERMINATION.



1 MECH MEZZANINE
1/4" = 1'-0"

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REGISTRATION NO. 22147
STATE OF TEXAS

Final Plans for Bidding and Construction

JUSTICE OF THE PEACE 3 BUILDING
GONZALES COUNTY
VICTORIA, TX.

DATE ISSUED:
3/26/2019

PROJECT NUMBER:
672-1118

STATE OF TEXAS
SEAN M. RODRIGUEZ
96478
LICENSED PROFESSIONAL ENGINEER
03/26/19

NRG ENGINEERING
5656 S. STAPLES, SUITE 350,
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TEXAS ENGINEERING FIRM NO.
005318

18208

PLAN NORTH / TRUE NORTH

SHEET NAME
MECHANICAL MEZZANINE PLAN

SHEET NUMBER
M1.2

HVAC GENERAL NOTES:

A. THESE GENERAL NOTES APPLY TO ALL HVAC DRAWINGS.
B. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS.
C. INSULATE DUCTWORK AS FOLLOWS:
   1. WRAP ALL INDOOR SUPPLY, RETURN, OUTSIDE AIR DUCT AND EXHAUST DUCT WITH THICK INSULATION WITH A THERMAL MIN. R-6 VALUE PER SPECIFICATIONS. THIS APPLIES TO CONCEALED DUCTWORK.
   2. COVER ALL OUTDOOR SUPPLY AND RETURN DUCTS WITH 2" THICK RIGID BOARD INSULATION WITH A THERMAL MIN. R-8 VALUE PER SPECIFICATIONS. ALL OUTDOOR DUCTS SHALL HAVE ALL JOINTS AND SEAMS SEALED LIQUID TIGHT WITH A RCD #8, UL-181 MASTIC OR EQUAL. ALL JOINTS AND SEAMS ON THE RIGID INSULATION BOARD SHALL BE SEALED LIQUID TIGHT USING RCD #8, UL-181 MASTIC OR EQUAL. THEN ALL RIGID BOARD SHALL BE PAINTED WITH A LIBERAL AMOUNT OF "KOOL-SEAL" ALUMINUM ROOF COATING #20-400 OR EQUAL.
   3. PROVID DOUBLE WALL DUCTWORK IN AREAS WHERE DUCT IS EXPOSED TO VIEW. PROVIDE DUCT INSULATION BETWEEN DUCT WALLS WITH MINIMUM R-VALUE OF 6. REFER TO SPECIFICATIONS.
D. PROVIDE FLEXIBLE CONNECTION AT DUCT ATTACHMENTS TO MECHANICAL EQUIPMENT.
E. HVAC EQUIPMENT SUMITTED OTHER THAN SCHEDULED MANUFACTURER'S SHALL NOT EXCEED PHYSICAL DIMENSIONS DUE TO SPACE LIMITATIONS.
F. ALL PIPING AND DUCTWORK PENETRATIONS OF FIRE-RATED BARRIERS SHALL BE PROTECTED WITH FIRE BLOCKING MATERIAL AND/OR DAMPERS PER SPECIFICATIONS.
G. MANUAL VOLUME DAMPERS INSTALLED IN RECTANGULAR DUCTWORK SHALL BE OPPOSED BLADE TYPE. MANUAL VOLUME DAMPERS INSTALLED IN ROUND DUCTWORK SHALL BE BUTTERFLY TYPE.
H. BALANCING DAMPERS IN EXTERNALLY INSULATED DUCTWORK SHALL BE PROVIDED WITH A BUILD-OUT ON DAMPER OPERATOR TO EXTEND OPERATOR HANDLE TO OUTSIDE OF INSULATION.
I. CONCEALED DUCTWORK TO HAVE OPERABLE QUADANTS ON BALANCING DAPERS.
J. PROVIDE ACCESS TO ALL CONTROL, MOTORIZED, BALANCING AND FIRE DAMPERS. PROVIDE ACCESS DOORS IN DUCTS AND CEILINGS WHERE NECESSARY.
K. DUCTWORK SHALL BE GALVANIZED G-90 SHEETMETAL FABRICATED TO SMACNA STANDARDS. DUCTWORK SHALL BE SHEET STEEL OF LOCK-FORMING QUALITY, ASTM-525. SEAL ALL DUCT SEAMS, TRANSVERSE AND LONGITUDINAL SEAMS AIR TIGHT WITH LOW PRESSURE DUCT SEALANT.
L. FLEXIBLE DUCTWORK SHALL BE EQUAL TO FLEXMASTER 8M WITH AN INSULATING R-VALUE OF 6 OR BETTER. FLEX DUCT SHALL NOT EXCEED 6 FT. IN LENGTH. DUCT RUNOUTS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK.
M. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH 24 HOUR MEMORY BACKUP SIMILAR TO HONEYWELLS T7350M1008/U.

GENERAL ENERGY NOTES:

THERMOSTATIC CONTROLS MUST HAVE A 5deg DEADBAND OR HAVE MANUAL CHANGEOVER BETWEEN HEATING AND COOLING.

PROVIDE AUTOMATIC CONTROLS: SETBACK TO 55degF (HEAT) AND 85degF (COOL); 7-DAY CLOCK, 2-HOUR OCCUPANT OVERRIDE, 10-HOUR BACKUP IN THE EVENT OF A POWER LOSS.

OUTDOOR AIR SUPPLY AND EXHAUST DUCTS SHALL BE PROVIDED WITH AUTOMATIC MEANS TO REDUCE AND SHUT OFF AIRFLOW WITH THE EXCEPTION FOR SYSTEM DESIGNED FOR CONTINUOUS OPERATION OR SYSTEM WITH AN FLOW RATE LESS THAN 3,000 CFM; SYSTEMS WITH READILY ACCESSIBLE MANUAL DAMPERS; OR RESTRICTED BY HEALTH AND LIFE SAFETY CODES.

ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS OR TAPES. TAPES AND MASTICS USED TO SEAL DUCTWORK SHALL BELISTED AND LABELED IN ACCORDANCE WITH UL181A OR UL181B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEMS SHALL BE SEALED AND MECHANICALLY FASTENED. DUCT TAPE IS NOT PERMITTED AS A SEALANT OF ANY METAL DUCTS.

INSULATION SHALL BE PROVIDED FOR PIPING AS NOTED IN THE TABLE BELOW. PIPING INSULATION SHALL BE PROVIDED FOR RETURN CIRCULATION HOT WATER SYSTEM WITH 1" OR R-4 INSULATION. THE FIRST 8' OF PIPING IN NONCIRCULATING SYSTEMS SERVED BY EQUIPMENT W/O INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 5" OR R-4 INSULATION.

MINIMUM PIPE INSULATION (inch)		
	NORMINAL PIPE DIA.	
FLUID	≤ 1.5"	> 1.5"
STEAM	1-1/2	3-1/2
HOT WATER	1	1-1/2
CHILL WATER or REFRIGERANT	1	1

MINIMUM DUCT INSULATION (R)	
UNCONDITIONED SPACE	≥ 6
OUTSIDE BLDG. ENVELOPE	≥ 8

EXCEPTIONS:
1. WHEN LOCATED WITHIN EQUIPMENT.
2. WHEN DESIGN TEMP. DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15°F.

AIR DEVICE SCHEDULE

BLDG '17

PLAN MARK	MANUF. & MODEL NUMBER	SERVICE	MODULE SIZE	NECK SIZE	FACE SIZE	BORDER TYPE	FINISH	BLOW PATTERN	MATL	OPTIONS/NOTES
A	TITUS OMNI-AA	SUPPLY	24 X 24	SEE DRAWING	24 X 24	1	25	4	ALU	-
B	TITUS 50F	RETURN	24 X 24	SEE DRAWING	24 X 24	1	26	4	ALU	-

BORDER TYPE
1. SURFACE MOUNT
2. SNAP-IN
3. LAY-IN
4. SPLINE
5. DROPPED
6. BEVELED

BLOW PATTERN
1. 1-WAY
2. 2-WAY
22. 2-WAY, OPPOSITE
3. 3-WAY
4. 4-WAY

FINISH
01 ALUMINUM
04 MILL (STD)
25 WHITE

MATERIAL
STL 22 GAUGE STEEL
ALU ALUMINUM

OPTIONS/NOTES
TRM RAPID MOUNT FRAME
PFSS SS PLASTER FRAME
PFA ALUM PLASTER FRAME
AG-15 STEEL DAMPER
AG-15-AA ALUMINUM DAMPER
AG-15-SS STAINLESS STEEL DAMPER
EQT EARTHQUAKE TABS
L FRONT BLADE LONG ORIENTATION
S FRONT BLADE SHORT ORIENTATION
AG-65 BUTTERFLY DAMPER
EG EQUALIZING GRID
TRV THROW REDUCING VANES

LOUVER SCHEDULE

MARK	L1	L2	
SERVES	AHU-1	AHU-2	
TYPE	WALL	WALL	
CFM	360	258	
PRESSURE DROP	0.078	0.079	
WIDTH X HEIGHT	14 X 14	14 X 12	
DEPTH	4	4	
APPLICATION	INTAKE	INTAKE	
MANUFACTURER	GREENHECK	GREENHECK	
MODEL NUMBER	ESD-435	ESD-435	
WEIGHT	24	24	
NOTES	1, 2, 3	1, 2, 3	

NOTE:
1. INSTALL PER MANUFACTURES RECOMMENDATIONS
2. PROVIDE WITH BIRD AND INSECT SCREEN.
3. PAINT WITH KYNAR PAINT 70% 2-COAT COLOR BY ARCHITECT.

HVAC SYMBOLS AND ABBREVIATIONS

DUCTWORK:
- 20"□ — PRIMARY DUCT, ROUND
- 20/12 — PRIMARY DUCT, RECTANGULAR
- DUCT TRANSITION
- BRANCH TAP
- MANUAL VOLUME DAMPER (MVD)

LINE TYPES:
- NEW EQUIPMENT
- NEW PIPING OR DUCT
- EXISTING PIPING OR DUCT

- RETURN AIR
- FSD — FIRE/SMOKE DAMPER
- CEILING DIFFUSER
- RETURN/EXHAUST AIR GRILLE

MISCELLANEOUS:
- TS HS — ZONE TEMP/HUMIDITY SENSOR
- T H — ZONE THERMOSTAT/HUMIDISTAT
- A 8"Ø 200 CFM — AIR DEVICE TYPE, NECK SIZE, SCHEDULED CFM
- NEW CONNECTION TO LANDLORD'S BASE SYSTEM

NOTE: ALL SYMBOLS & ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT

LEGEND

⌀	SQUARE	HVAC	HEATING VENTILATING & AIR CONDITIONING
□	ROUND	IN W.G.	INCH WATER GAUGE
ACC.DR.	ACCESS DOOR	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	LAT	LEAVING AIR TEMPERATURE
CFM	CUBIC FEET PER MINUTE	MBH	THOUSAND BTU PER HOUR
DB	DRY BULB	MOCP	MAXIMUM OVER CURRENT PROTECTION
E/A	EXHAUST AIR	O/A	OUTSIDE AIR
EAT	ENTERING AIR TEMPERATURE	PD	PRESSURE DROP
ESP	EXTERNAL STATIC PRESSURE	R/A	RETURN AIR
FC	FLEXIBLE CONNECTION	RLA	RUNNING LOAD AMPS
FLA	FULL LOAD AMPS	RPM	REVOLUTION PER MINUTE
FPI	FINS PER INCH	S/A	SUPPLY AIR
FT W.G.	FOOT WATER GAUGE	SP	STATIC PRESSURE
GA.	GAUGE	SQ FT	SQUARE FEET
GALV	GALVANIZED	U.C.D.	UNDERCUT DOOR BY 1"
GPM	GALLONS PER MINUTE	WB	WET BULB

EXHAUST FAN SCHEDULE

MARK	EF-1	EF-2	EF-3
SERVES	UNISEX 114	MEN 112	WOMEN 111
TYPE/DRIVE	CEILING/DIRECT	CEILING/DIRECT	CEILING/DIRECT
CFM	100	150	125
E.S.P. IN W.G.	0.5	0.5	0.5
WATTS	81	135	128
RPM (MAX.)	857	991	969
SONES (MAX.)	2.8	3.1	3.3
VOLTS/PHASE/HERTZ	115/1/60	115/1/60	115/1/60
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER	SP-A290	SP-A390	SP-B150
WEIGHT	24	24	10
NOTES	1, 2, 3	1, 2, 3	1, 2, 3

NOTE:
1. FAN SHALL BE DIRECT DRIVE WITH MOTOR MOUNTED SPEED CONTROL RELAY, PREWIRED INTEGRAL DISCONNECT SWITCH, AND BACKDRAFT DAMPER.
2. EXHAUST FAN SHALL BE CONTROLLED BY LIGHT SWITCH. COORDINATE WITH ELECTRICAL.
3. EQUIVALENT MANUFACTURES ARE COOK AND GREENHECK.

DX SPLIT AIR HANDLING UNIT SCHEDULE

MARK	AHU-1	AHU-2				
TYPE	CV	CV				
SUPPLY (CFM)	1750	2030				
OUT SIDE AIR (CFM)	300	250				
EXT. SP. (IN. WG)	0.75	0.75				
FAN MOTOR HORSEPOWER	0.75	2.40				
FAN STYLE/CONFIGURATION	VERT	VERT				
COOLING COIL						
MAX. COIL FACE VEL. (FPM)	500	500				
EAT DB/WB (F)	78.4/66.5	76.5/65				
LAT DB/WB (F)	58.5/56.8	55/53.2				
TOTAL GRAND (MBTUH)	53.3	67.4				
TOTAL SENSIBLE (MBTUH)	39.5	53.5				
HEATING COIL						
HEATING KW	15.0	15.0				
HEATING BTUH	45549.0	46917.4				
HEATING EAT DB (F)	60.9	59.6				
HEATING LAT DB (F)	85	85				
ELECTRICAL DATA						
VOLTS/PH/HZ	208/1/60	208/3/60				
MCA	76.3	46				
MOCP	80	50				
MANUFACTURE	CARRIER	CARRIER				
MODEL No.	FC4C	40RUAA08				

NOTES:
1. PROVIDE 2" PLEATED 30% EFFICIENT MERV 8 FILTERS FOR THE AHU.
2. PROVIDE SLIDE OUT FILTER FRAME ON RETURN INLET OF AIR HANDLER.
3. PROVIDE WITH SINGLE POINT OF ELECTRICAL CONNECTION FOR EACH UNIT. THE UNITS SHALL BE CONSTANT VOLUME.
4. PROVIDE 24" TALL STAND/PLENUM BASE FOR VERTICAL UNITS.
5. PROVIDE RUBBER IN SHEAR ISOLATORS FOR SUSPENDED AIR HANDLER.
6. PROVIDE SECONDARY DRAIN PAN WITH EMERGENCY FLOAT SWITCH. INTERLOCK FLOAT SWITCH WITH UNIT SAFETIES.
7. PROVIDE WITH TWO STAGE PROGRAMMABLE THERMOSTATS
8. INSTALL ALL UNITS AS PER THE MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS. PROVIDE THE MANUFACTURERS MINIMUM CLEARANCES FOR OPERATION AND SERVICE OF THE UNIT. COORDINATE THE INSTALLATION OF THE UNIT WITH ALL OTHER DISCIPLINES, DUCTWORK, STRUCTURE, ELECTRICAL, AND ALL OTHER OBSTRUCTION PRIOR TO INSTALLATION OF THE UNIT, ITS EQUIPMENT PAD, AND ALL ACCESSORIES.
9. MECHANICAL SPACES HAVE BEEN DESIGNED AROUND THE SPECIFIED MANUFACTURER. ALTERNATE MANUFACTURERS EQUIPMENT SHALL NOT EXCEED THE SPECIFIED MANUFACTURES PHYSICAL DIMENSIONS AND WEIGHTS. MANUFACTURERS MINIMUM CLEARANCES FOR OPERATION AND SERVICE OF THE UNIT. COORDINATE THE INSTALLATION OF THE UNIT WITH ALL OTHER DISCIPLINES, DUCTWORK, STRUCTURE, ELECTRICAL, AND ALL OTHER OBSTRUCTION PRIOR TO INSTALLATION OF THE UNIT, ITS EQUIPMENT PAD, AND ALL ACCESSORIES.

CONDENSING UNIT SCHEDULE

MARK	CU-1	CU-2						
SERVES	AHU-1	AHU-2						
TOT MBTUH	53.31	67.6						
AMBIENT TEMP.	105	105						
SEER (EER)	14.5(12)	(11.5)						
IEER	12.9	12.9						
VOLTS/PH	208/3/60	208/3/60						
MCA	21.4	28						
MOCP	35	45						
MFG	CARRIER	CARRIER						
MODEL No.	24AHA	38AUZD07						
NOTES:	ALL	ALL						

NOTES:
1. PROVIDE COMPRESSOR WITH 5 YEAR WARRANTY.
2. PROVIDE UNITS WITH TWO STAGE OF COOLING
3. SIZE REFRIGERANT LINES PER MANUFACTURES RECOMMENDATIONS. PROVIDE HIGH AND LOW PRESSURE SWITCHES, LIQUID LINE FILTER DRIER, CRANKCASE HEATERS AND NON-BLEED PORT, ADJUSTABLE TXV VALVE. PROVIDE LIQUID LINE SIGHT GLASS AND PRESSURE TAPS ON INLET AND OUTLET OF INDOOR COILS.

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BRADLEY WADE KOCUREK
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REGISTRATION NO. 22147
STATE OF TEXAS

Final Plans for Bidding and Construction

JUSTICE OF THE PEACE 3 BUILDING
GONZALES COUNTY
VICTORIA, TX

DATE ISSUED:
3/28/2019

PROJECT NUMBER:
672-1118

SEAN N. RODRIGUEZ
95478
LICENSED PROFESSIONAL ENGINEER
03/28/19

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006516

18208

PLAN NORTH ⊕ TRUE NORTH

SHEET NAME
MECHANICAL NOTES & SCHEDULES

SHEET NUMBER
M2.1

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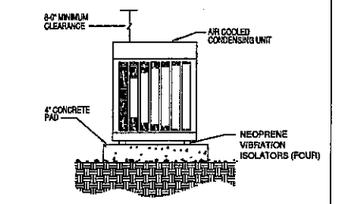
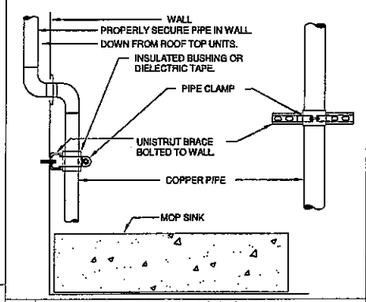
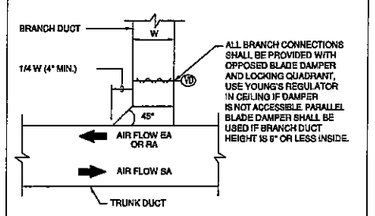


NOTE:
CLEARANCE AROUND UNIT FOR AIR FLOW AND SERVICE PER MANUFACTURER INSTALLATION INSTRUCTION.

1 CONDENSING UNIT MOUNTING ON GRADE
NOT TO SCALE MEQU160LDWG

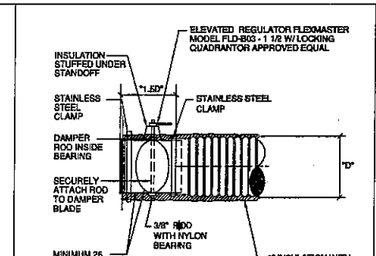


2 CONDENSATE TO MOP SINK
NOT TO SCALE



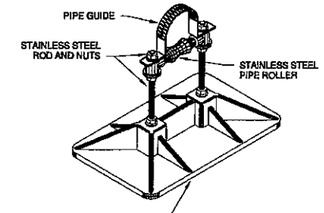
NOTE: THIS CONNECTION SHALL BE TYPICAL FOR ALL RECTANGULAR BRANCH DUCT CONNECTIONS TO RECTANGULAR TRUNK DUCTS, INCLUDING SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST DUCTS.

3 RECTANGULAR BRANCH DUCT TAP
NOT TO SCALE MADC002LDWG



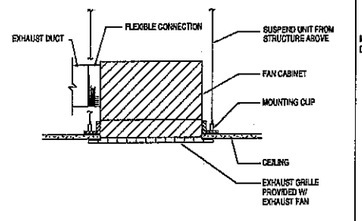
NOTE: 1. ALL FLEXIBLE DUCT OFFSETS AND BENDS SHALL MAINTAIN A RADIUS OF 1.5 X ("D"). MINIMUM 3'-0" AND MAXIMUM 6'-0"
2.TYPICAL OF ROUND DUCT CONNECTIONS TO RECTANGULAR DUCTS

4 SPIN-IN DETAIL
NOT TO SCALE MADC001LDWG



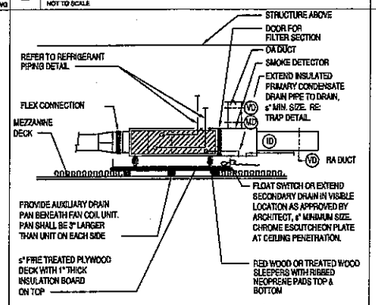
PROVIDE ROOF PIPE SUPPORT EQUIVALENT TO PHP MODEL PP10 W/ROLLER AND PIPE GUIDE.

5 PIPING SUPPORT DETAIL
NOT TO SCALE



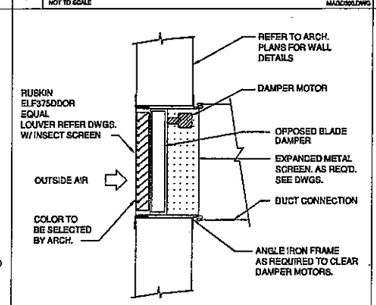
NOTE: PROVIDE FAN U.L RADIATION DAMPER FOR FIRE RATED CEILING.

6 CEILING MOUNTED EXHAUST FAN
NOT TO SCALE MEFA300LDWG



NOTE: ALL CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 GALVINIZED WITH MALLEABLE IRON SCREWED FITTINGS.

7 FAN COIL UNIT MOUNTING (DX)
NOT TO SCALE MEFC200LDWG



8 INTAKE LOUVER MOUNTING
NOT TO SCALE MADT201.DWG

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GONZALES COUNTY
VICTORIA, TX

DATE ISSUED:
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872-1118

SEAN M. RODRIGUEZ
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03/28/19

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18208

PLAN NORTH TRUE NORTH

SHEET NAME
MECHANICAL DETAILS

SHEET NUMBER
M3.1

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GENERAL NOTES:

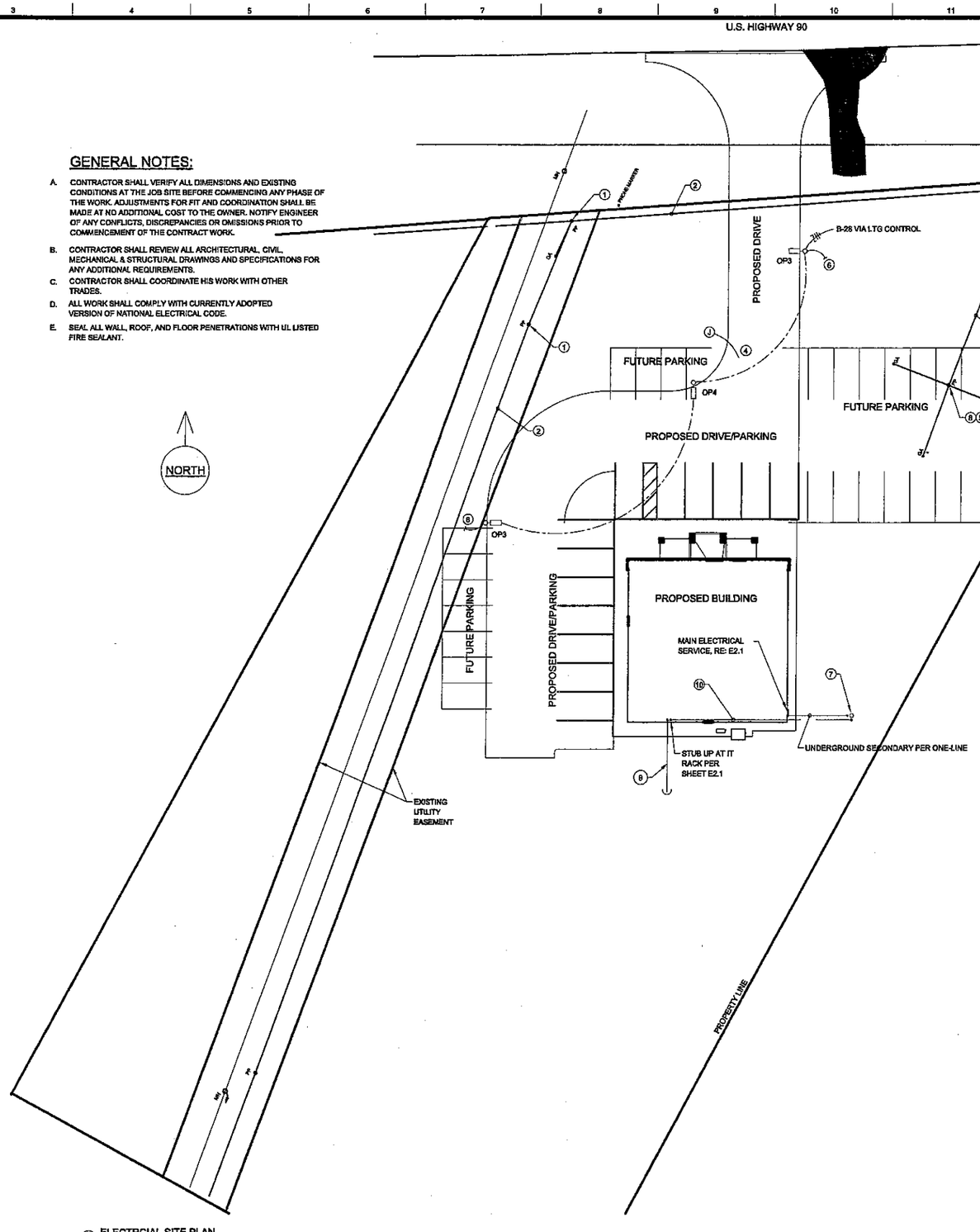
A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.

B. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.

C. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.

D. ALL WORK SHALL COMPLY WITH CURRENTLY ADOPTED VERSION OF NATIONAL ELECTRICAL CODE.

E. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.



1 ELECTRICIAL SITE PLAN
1" = 20'-0"

SITE KEYED NOTES:

1. EXISTING UTILITY POLE TO REMAIN.
2. EXISTING OVERHEAD PRIMARY TO REMAIN.
3. EXISTING OVERHEAD PRIMARY TO BE MODIFIED BY UTILITY COMPANY FOR POLE RELOCATION.
4. FUTURE SIGN POWER (1-1/4"C) & DATA (1-1/2"). STUB UP AT THIS LOCATION AND CAP. INDICATED CONDUITS SHALL RUN UNDERGROUND BACK TO BUILDING. POWER CONDUIT SHALL STUB UP UNDER PANEL 'B' AND BE CAPPED. DATA CONDUIT SHALL BE STUBBED UP AT IT RACK AND BE CAPPED.
5. FIELD COORDINATE W/ UTILITY COMPANY AND CIVIL TO HAVE POLE AND OVERHEAD POWER RELOCATED AS REQUIRED.
6. STUB OUT 1"C FOR FUTURE SITE LIGHTING EXTENSION. EXTEND BEYOND CONCRETE POUR & CAP BELOW GRADE.
7. NEW UTILITY POLE W/ POLE MOUNTED XFMRS
8. EXISTING UTILITY POLE TO BE RELOCATED.
9. (3) 2"C STUB OUTS FROM IT RACK AREA FOR FUTURE USE.
10. (2) 4"C UNDERGROUND FOR TELECOMM

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PLAN NORTH / TRUE NORTH

SHEET NAME
ELECTRICAL SITE PLAN

SHEET NUMBER
E0.1

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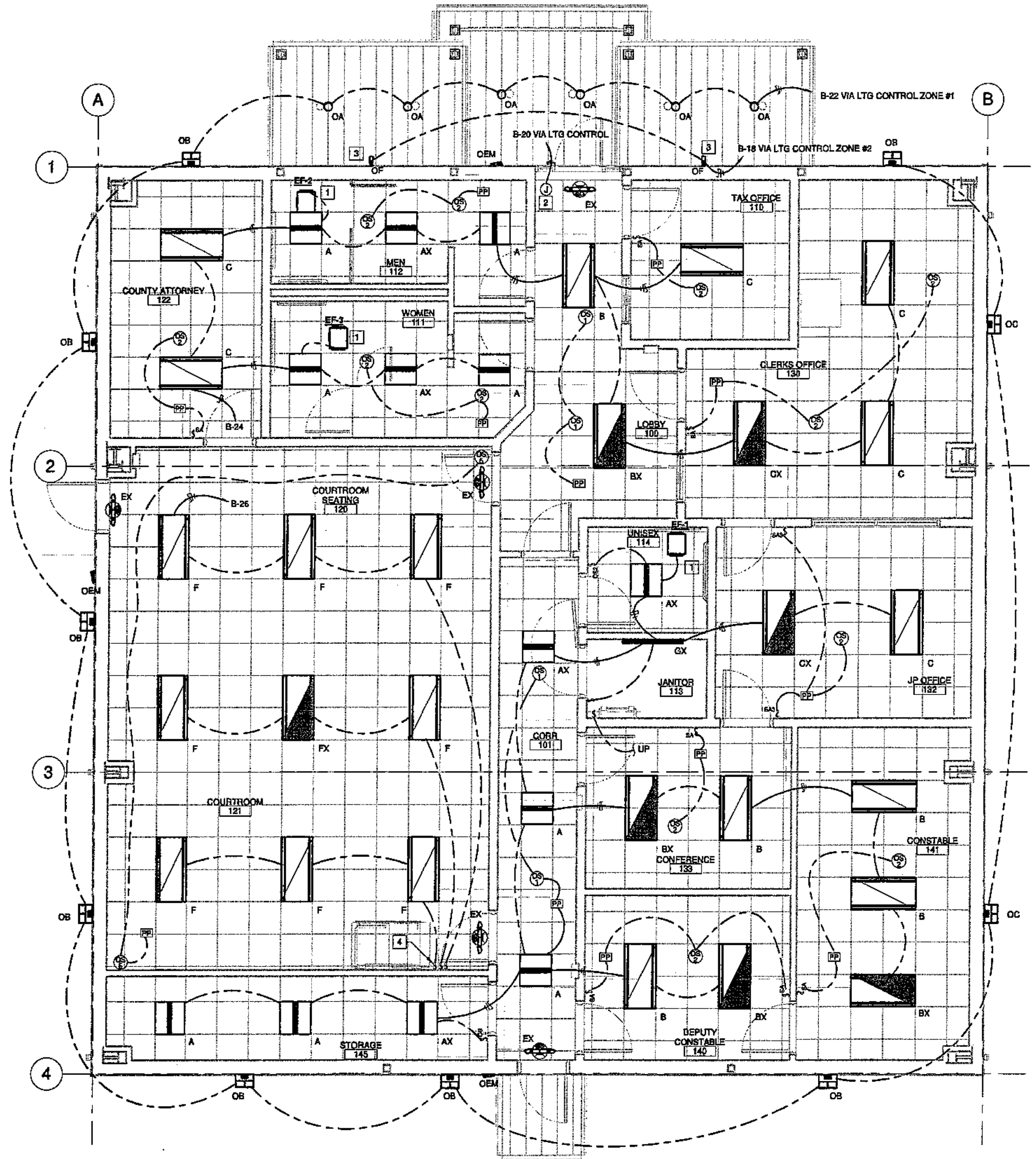

1 LIGHTING PLAN
1/4" = 1'-0"

ELECTRICAL GENERAL NOTES:

A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.

B. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.

C. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.

D. ALL CONDUIT SHALL BE AS STRAIGHT AS POSSIBLE AND PARALLEL OR PERPENDICULAR TO BUILDING LINES.

E. ALL WORK SHALL COMPLY WITH CURRENTLY ADOPTED VERSION OF NATION ELECTRICAL CODE.

F. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.

G. ALL CONDUIT SHALL BE ROUTED CONCEALED WITHIN WALLS AND/OR ABOVE CEILINGS, WHERE APPLICABLE.

H. REFER TO SHEET E5.1 DETAIL #5 FOR MOUNTING HEIGHTS OF ALL FIXTURES.

OCCUPANCY SENSOR SCHEDULE
SENSORSWITCH POWER PACK #PP20 2P
SENSORSWITCH POWER PACK #PP20
SENSORSWITCH #WSD-SA-CBA
SENSORSWITCH #WSD-PDT-SA-CBA
SENSORSWITCH #WSX-D-SA-CBA
SENSORSWITCH #WSX-PDT-D-SA-CBA
SENSORSWITCH #sPODM-SA-CBA
SENSORSWITCH #sPODM-SA-D-CBA
SENSORSWITCH #sPODM-SA-3X-CBA
SENSORSWITCH #sPODM-SA-3X-D-CBA
SENSORSWITCH #WSX-2P-CBA
SENSORSWITCH #WSX-PDT-2P-CBA
SENSORSWITCH #CM9
SENSORSWITCH #CM9-PDT
SENSORSWITCH #WV-PDT-16-WVBR

NOTE: PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL 'EX', 'EM', & 'OEM' FROM NEARBY LTG CIRCUIT, TYPICAL. THIS HOT CONDUCTOR SHALL BYPASS ANY SWITCHES, OCCUPANCY SENSORS, AND LIGHTING CONTROL RELAYS.

PROVIDE 0-10V CONTROL WIRING FOR DIMMING WHERE INDICATED.

ELECTRICAL LIGHTING KEY NOTES:

1. EXHAUST FAN TO TURN ON WITH LIGHTS. INTEGRAL DISCONNECT PROVIDED BY DIVISION 23.
2. FIELD COORDINATE LOCATION OF (CODE REQUIRED) BUILDING SIGN POWER.
3. INSTALL ON WALL IMMEDIATELY ABOVE CANOPY AND DIRECT UP TO ILLUMINATE FLAG.
4. MANUAL OVERRIDE 'OFF' SWITCHES ON LOADSIDE OF POWER PACK.

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PLAN NORTH TRUE NORTH

SHEET NAME
LIGHTING PLAN

SHEET NUMBER
E1.1

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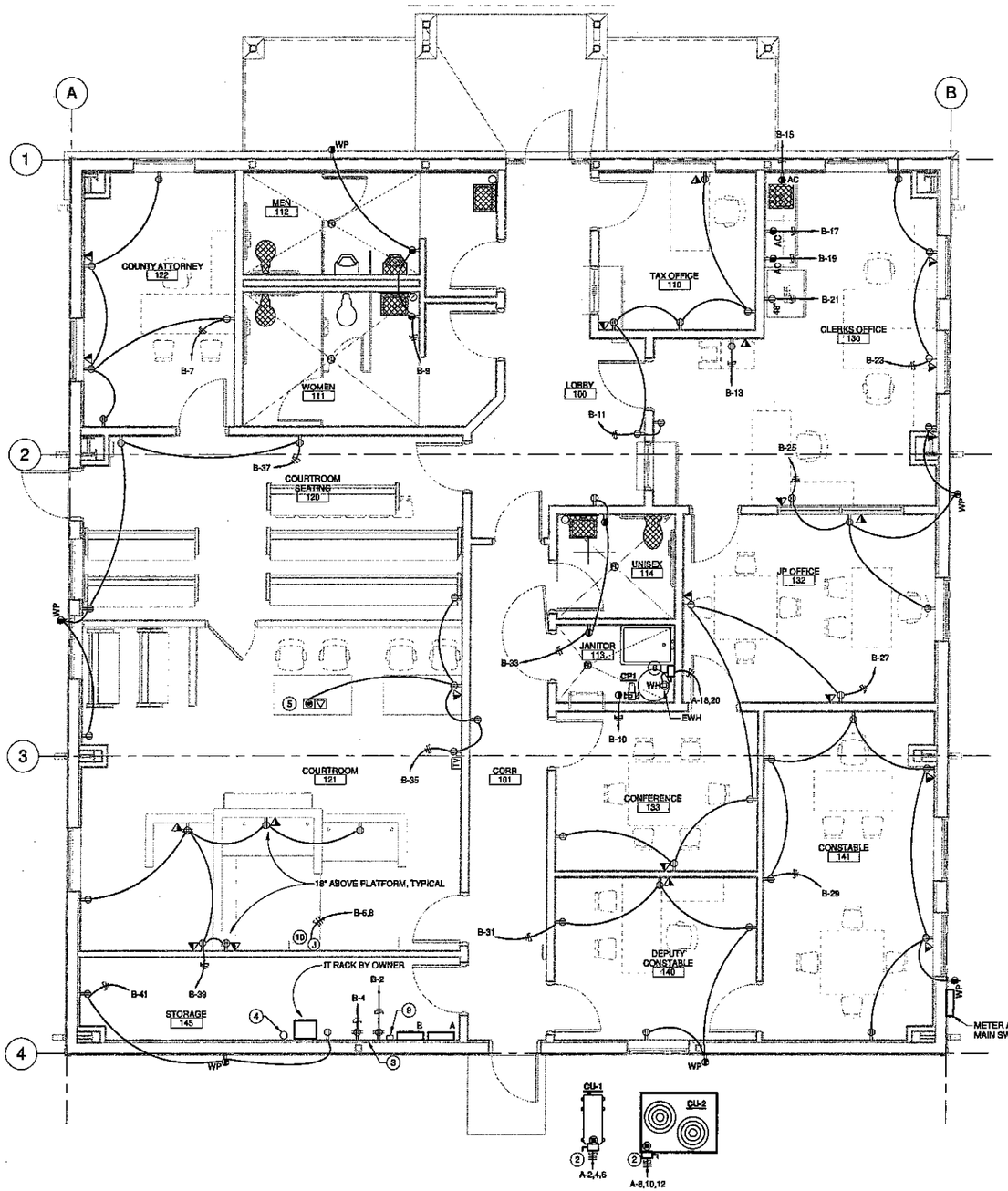

1 POWER PLAN
1/4" = 1'-0"

ELECTRICAL GENERAL NOTES:

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C. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.

D. ALL CONDUIT SHALL BE AS STRAIGHT AS POSSIBLE AND PARALLEL OR PERPENDICULAR TO BUILDING LINES.

E. ALL WORK SHALL COMPLY WITH CURRENTLY ADOPTED VERSION OF NATION ELECTRICAL CODE.

F. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.

G. ALL CONDUIT SHALL BE ROUTED CONCEALED WITHIN WALLS AND/OR ABOVE CEILINGS, WHERE APPLICABLE.

H. REFER TO SHEET E5.1 DETAIL #5 FOR MOUNTING HEIGHTS OF ALL FIXTURES.

ELECTRICAL POWER KEY NOTES:

(1) 30A/3P/NF/NEMA-3R DISCONNECT SWITCH. INSTALL ON WALL AT LOCATION THAT SATISFIES N.E.C. REQUIRED WORKING CLEARANCES.

(2) 60A/3P/NF/NEMA-3R DISCONNECT SWITCH. INSTALL ON WALL AT LOCATION THAT SATISFIES N.E.C. REQUIRED WORKING CLEARANCES.

(3) 48"X48"X3/4" TYPE AB PLYWOOD BACKBOARD PAINTED WHITE WITH FIRE RETARDANT PAINT. PROVIDE #6AWG GROUND TO BUILDING GROUND ROD.

(4) LOCATION OF TELECOMMUNICATIONS STUB UPS, REFER TO E0.1.

(5) 2-GANG FLOOR BOX, WIREMOLD #680NP, NW/ BRASS TRIM/FLANGE. PROVIDE DUPLEX POWER AND TWO (2) DATA PORTS. PROVIDE 1"C TO ACCESSIBLE CEILING FOR DATA.

(6) 100A/2P/NF/NEMA-1 DISCONNECT SWITCH. INSTALL ON WALL AT LOCATION THAT SATISFIES N.E.C. REQUIRED WORKING CLEARANCES.

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(10) POWER FOR FUTURE LIFT. FIELD COORDINATE EXACT PLACEMENT.

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Victoria, Texas 77901
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BRADLEY WADE KOCUREK
REGISTERED ARCHITECT
REGISTRATION NO. 22147
STATE OF TEXAS

Final Plans for Bidding and Construction

JUSTICE OF THE PEACE 3 BUILDING

GONZALES COUNTY
VICTORIA, TX

DATE ISSUED:
3/28/2019

PROJECT NUMBER:
872-1118

PLAN NORTH / TRUE NORTH

SHEET NAME
POWER PLAN

SHEET NUMBER
E2.1

STATE OF TEXAS
JOHN A. RODRIGUEZ III
90273
LICENSED
PROFESSIONAL ENGINEER
03/28/19

NRG ENGINEERING
5656 S. STAPLES, SUITE 360,
CORPUS CHRISTI, TX 78411
P - 361.852.2727 F - 361.852.2922
TEXAS ENGINEERING FIRM NO.
005318

18208

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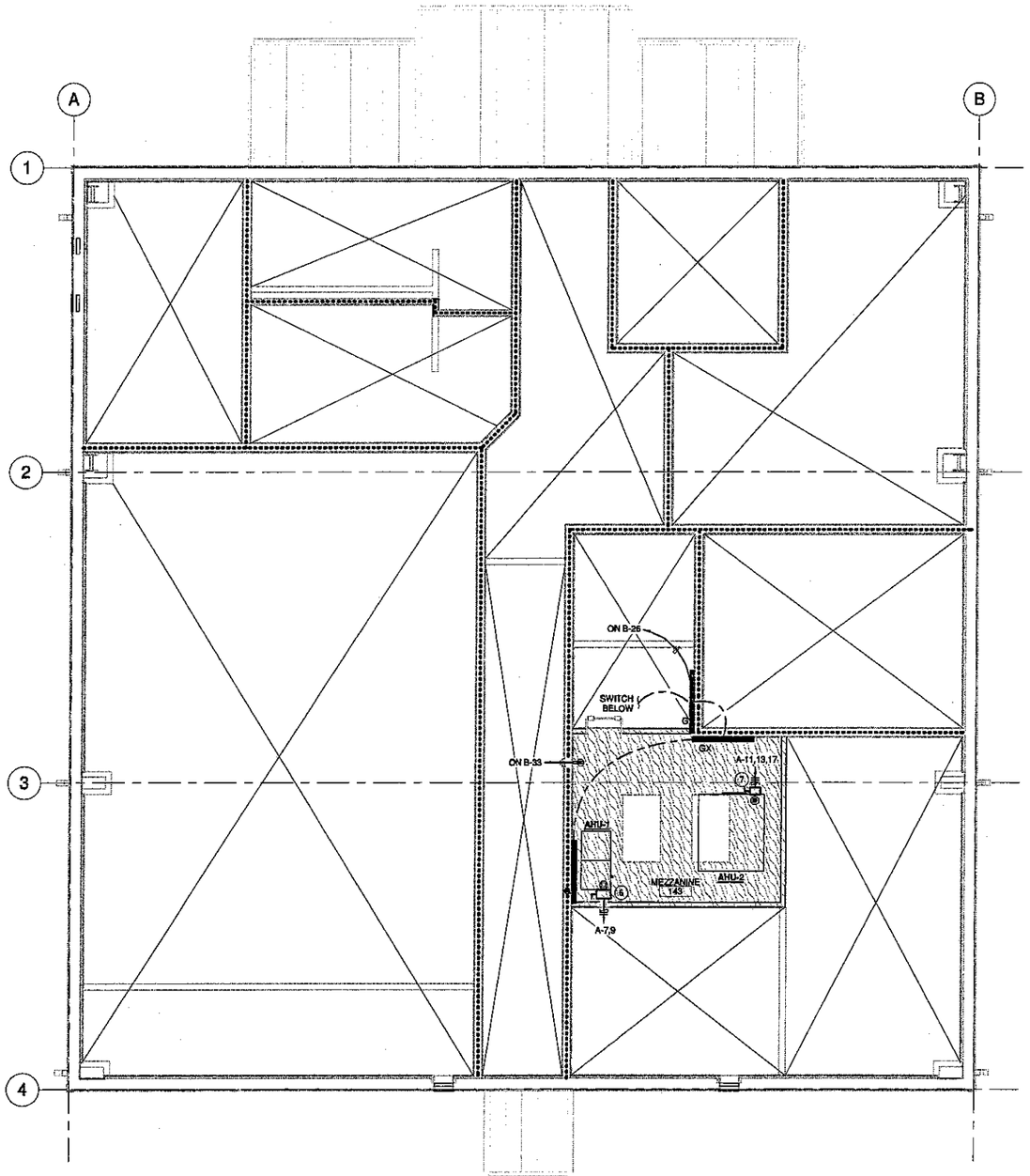

1 MEZZANINE ELECTRICAL PLAN
1/4" = 1'-0"

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572-1118

PLAN NORTH / TRUE NORTH

SHEET NAME
MEZZANINE ELECTRICAL PLAN

SHEET NUMBER
E3.1

STATE OF TEXAS
JOHN A. RODRIGUEZ III
90273
LICENSED PROFESSIONAL ENGINEER
03/28/19

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TEXAS ENGINEERING FIRM NO.
005318

18208

Lighting Fixture Schedule

Type	Manufacturer	Model	Mount	Lamp	Watts	Description
A	Acuity Brands Lighting	2GTL-2-20L-EZ1-LP840	RECESSED	LED	20W	GENERAL PURPOSE LED TROFFER 2'X2'
AX	Acuity Brands Lighting	2GTL-2-20L-EZ1-LP840-EL14L	RECESSED	LED	20W	GENERAL PURPOSE LED TROFFER 2'X2' WITH EMERGENCY BATTERY
B	Acuity Brands Lighting	2GTL-4-48L-EZ1-LP840	RECESSED	LED	47W	GENERAL PURPOSE LED TROFFER 2'X4'
BX	Acuity Brands Lighting	2GTL-4-48L-EZ1-LP840-EL14L	RECESSED	LED	47W	GENERAL PURPOSE LED TROFFER 2'X4' WITH EMERGENCY BATTERY
C	Acuity Brands Lighting	2GTL-4-60L-EZ1-LP840	RECESSED	LED	55W	GENERAL PURPOSE LED TROFFER 2'X4'
CX	Acuity Brands Lighting	2GTL-4-60L-EZ1-LP840-EL14L	RECESSED	LED	55W	GENERAL PURPOSE LED TROFFER 2'X4' WITH EMERGENCY BATTERY
EX	Acuity Brands Lighting	LHQM-LED-R	UNIVERSAL	LED	1.5W	QUANTUM LED EMERGENCY COMBO
F	Acuity Brands Lighting	2GTL-4-60L-EZ1-LP840	RECESSED	LED	55W	GENERAL PURPOSE LED TROFFER 2'X4'
FX	Acuity Brands Lighting	2GTL-4-60L-EZ1-LP840-EL14L	RECESSED	LED	55W	GENERAL PURPOSE LED TROFFER 2'X4' WITH EMERGENCY BATTERY
G	Acuity Brands Lighting	ZL1N-L48-SMR-5000LM-FST-MVOLT-40K-80CRI-CBA	SURFACE	LED	34W	4' LED STRIP, 5000 LUMEN
GX	Acuity Brands Lighting	ZL1N-L48-SMR-5000LM-FST-MVOLT-40K-80CRI-E7W-CBA	SURFACE	LED	34W	4' LED STRIP, 5000 LUMEN W/ BATTERY PACK
OA	Acuity Brands Lighting	JSF-7IN/10LM-40K-90CRI-MVOLT ZT-WH-JSFTRIM-7IN-BZ	RECESSED	LED	13W	LOW PROFILE RECESSED LIGHT
OB	Acuity Brands Lighting	KAXWLED-P1-40K-R4-MVOLT-DDBXD	SURFACE	LED	29W	LED WALL PACK
OC	Acuity Brands Lighting	KAXWLED-P1-40K-R3-MVOLT-DDBXD	SURFACE	LED	29W	LED WALL PACK
OEM	Acuity Brands Lighting	AFN-DB-EXT	SURFACE	LED	2W	EXTERIOR EMERGENCY LIGHT
OF	Acuity Brands Lighting	DSXF3-LED-6-P1-40K-MSP-MVOLT-IS-FV-CBA W/ BULLHORN	BULLHORN/SURF	LED	7.5W	FLOOD LIGHT FOR FLAG ON BULLHORN, WALL MOUNT ABOVE CANOPY
OP3	Acuity Brands Lighting	RSX1-LED-P2-40K-R3-MVOLT-SPA-DDBXD	Pole Mount Area and Roadway Luminaire	LED	51W	POLE LIGHT W/ POLE #SSS-20-4C-DM19(RSX)-VD-DDBXD
OP4	Acuity Brands Lighting	RSX1-LED-P2-40K-R4-MVOLT-SPA-DDBXD	Pole Mount Area and Roadway Luminaire	LED	51W	POLE LIGHT W/ POLE #SSS-20-4C-DM19(RSX)-VD-DDBXD

PANEL 'A'

W/SPD — 225 AMP, M.L.O., 120/208 V, 3Ø, 4W, S/N, SURFACE, NEMA 1, 22 KAIC

CKT #	LOAD SERVED	LOAD	WIRE SIZE	BKR SIZE	A	B	C	BKR SIZE	WIRE SIZE	LOAD	LOAD SERVED	CKT #
1	SPD	-	#10 AWG	30/3	A			35/3	#6 AWG	2570	CU-1	2
3		-	#10 AWG			B			#6 AWG	2570		4
5		-	#10 AWG				C		#6 AWG	2570		6
7	AHU-1	7935	#4 AWG	60/2	A			45/3	#8 AWG	4203	CU-2	8
9		7935	#4 AWG			B			#8 AWG	4203		10
11	AHU-2	5764	#6 AWG	50/3			C		#8 AWG	4203		12
13		5764	#6 AWG		A							14
15		5764	#6 AWG			B						16
17							C	30/2	#10 AWG	2808	EWH	18
19	PANEL 'B'	9354	RE: ONE-LINE	100/3	A				#10 AWG	2808		20
21		7440	RE: ONE-LINE			B						22
23		6826	RE: ONE-LINE				C					24
25					A							26
27						B						28
29							C					30

CONNECTED LOAD = 62717 VA — PHASE A = 32634 VA — PHASE B = 27912 VA — PHASE C = 22171 VA

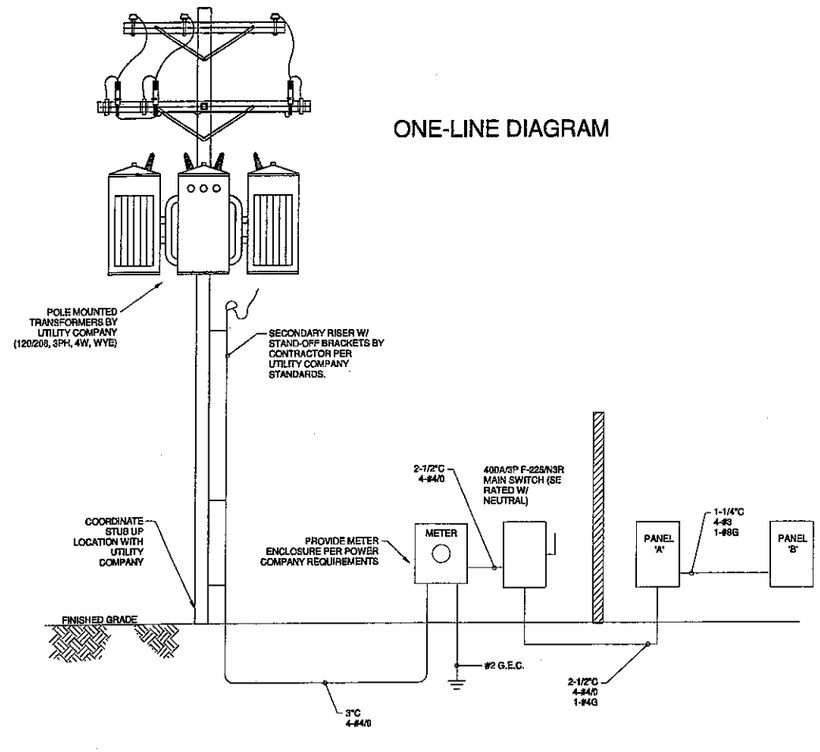
PANEL 'B'

100 AMP, M.L.O., 120/208 V, 3Ø, 4W, S/N, SURFACE, NEMA 1, 10 KAIC

CKT #	LOAD SERVED	LOAD	WIRE SIZE	BKR SIZE	A	B	C	BKR SIZE	WIRE SIZE	LOAD	LOAD SERVED	CKT #
1		-			A			20/1	#10 AWG	1200	TELEPHONE BOARD	2
3		-				B		20/1	#10 AWG	1200	TELEPHONE BOARD	4
5		-					C	20/2	#10 AWG	1200	FUTURE LIFT	6
7	COUNTY ART RECEP	900	#12 AWG	20/1	A				#10 AWG	1200	FUTURE LIFT	8
9	BATHROOM RECEP	540	#12 AWG	20/1		B		20/1	#12 AWG	100	CP-1	10
11	TAX OFF RECEP	900	#12 AWG	20/1			C	20/1			SPARE	12
13	PRINTER	900	#10 AWG	20/1	A			20/1			SPARE	14
15	CLERK OFF RECEP	540	#12 AWG	20/1		B		20/1			SPARE	16
17	CLERK OFF RECEP	540	#12 AWG	20/1			C	20/1	#12 AWG	450	FLAG LIGHTING	18
19	CLERK OFF RECEP	540	#12 AWG	20/1	A			20/1	#12 AWG	720	BUILDING SIGN	20
21	REFRIGE RECEP	900	#12 AWG	20/1		B		20/1	#12 AWG	300	EXTERIOR LTG	22
23	CLERK OFF RECEP	540	#12 AWG	20/1			C	20/1	#12 AWG	496	INTERIOR LTG	24
25	JP OFFICE RECEP	900	#12 AWG	20/1	A			20/1	#12 AWG	1194	INTERIOR LTG	26
27	CONFERENCE RECEP	900	#12 AWG	20/1		B		20/1	#8 AWG	800	SITE LTG	28
29	CONSTABLE RECEP	1260	#12 AWG	20/1			C					30
31	DEPUTY RECEP	900	#12 AWG	20/1	A							32
33	JANITOR RECEP	900	#12 AWG	20/1		B						34
35	COURT ROOM RECEP	900	#12 AWG	20/1			C					36
37	COURT SEATING REC	900	#12 AWG	20/1	A							38
39	COURT ROOM RECEP	1260	#12 AWG	20/1		B						40
41	STORAGE RECEP	540	#12 AWG	20/1			C					42

CONNECTED LOAD = 23820 VA — PHASE A = 9354 VA — PHASE B = 7440 VA — PHASE C = 6826 VA

ONE-LINE DIAGRAM



ESTIMATED ELECTRICAL LOAD

120/208V, 3Ø, 4W

DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
LIGHTING	3240	125%	4050
RECEPTACLES	15360	NEC 220-44	12680
KITCHEN EQUIPMENT	0	NEC 220-56	0
H.V.A.C.	33162	100%	33162
LARGEST MOTOR	0	125%	0
MOTOR LOAD	0	100%	0
MISC. SINGLE PHASE LOADS	10636	100%	10636
TOTAL VOLT-AMPERS	62398		60528
60528 VA / (208V*1.732)	=	168	AMPS

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PLAN NORTH — TRUE NORTH

SHEET NAME
ELECTRICAL SCHEDULES

SHEET NUMBER
E4.1

ELECTRICAL LEGEND

NOTE: NOT ALL SYMBOLS MAY APPLY TO THIS JOB!

SYMBOL	DESCRIPTION
B-2	HOMERUN TO CIRCUIT AND PANEL INDICATED
	NEUTRAL CONDUCTOR
	HOT CONDUCTOR
	GROUNDING CONDUCTOR
	TRAVELER
	SWITCH LEG
(2)	NUMBER IN PARENTHESIS INDICATES CIRCUIT TO WHICH DEVICE IS CONNECTED
$	TOGGLE SWITCH - 120/277V, 20A
$3	THREEWAY SWITCH - 120/277V, 20A
$4	FOURWAY SWITCH - 120/277V, 20A
$D	DIMMER SWITCH
$M	MANUAL MOTOR STARTER - 120/277V, 20A
$M2P	MANUAL MOTOR STARTER - 208V, 2 POLE
	DUPLEX RECEPTACLE - 125V,20A,1P
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE 125V,20A,1P
	ISOLATED GROUND RECEPTACLE - 125V,20A,1P
	SINGLE RECEPTACLE - 250V, AMPS PER PANEL SCHEDULE
	QUADRAPLEX RECEPTACLE - 125V,20A,1P
	ISOLATED GROUND QUADRAPLEX RECEPTACLE - 125V,20A,1P
	SINGLE RECEPTACLE - 125V,20A,1P
	ISOLATED GROUND SINGLE RECEPTACLE - 125V,20A,1P
	DUPLEX RECEPTACLE - 125V,20A,1P (FLOOR MOUNTED)

SYMBOL	DESCRIPTION
	120V, 1P EQUIPMENT CONNECTION
	240V, 1P EQUIPMENT CONNECTION
	240V, 3P EQUIPMENT CONNECTION
	208V, 1P EQUIPMENT CONNECTION
	208V, 3P EQUIPMENT CONNECTION
	277V, 1P EQUIPMENT CONNECTION
	480V, 3P EQUIPMENT CONNECTION
	480V, 1P EQUIPMENT CONNECTION
	DISCONNECT SWITCH - SIZE AND POLE AS NOTED
	COMBINATION STARTER/DISCONNECT SWITCH
	STARTER
J	JUNCTION BOX, SIZED PER N.E.C.
S	SPEAKER
H	HUMIDIFIER OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING
T	THERMOSTAT OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING
C	CLOCK OUTLET
TV	TELEVISION OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING
P	PUSHBUTTON
H.H.I.	HAND-HELD INTERCOM (ADMIN STATION)
	DOOR BELL/BUZZER
T	DOOR BELL/BUZZER TRANSFORMER
	CAMERA

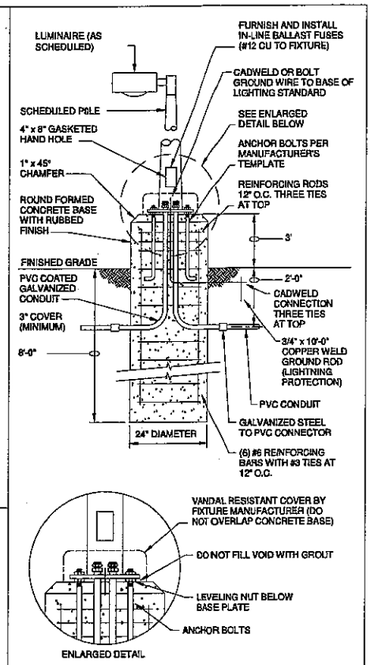
SYMBOL	DESCRIPTION
	TELEPHONE OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING
	DATA/TELEPHONE OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING
	DATA OUTLET BOX WITH I CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING
F	FIRE ALARM PULL STATION
F	FIRE ALARM AUDIO/VISUAL SIGNAL
V	FIRE ALARM ADA VISUAL SIGNAL
R	FIRE ALARM SHUT DOWN RELAY
S	SMOKE DETECTOR
SD	DUCT MTD. SMOKE DETECTOR
H	HEAT DETECTOR
P	PUSH-TO-EXIT BUTTON
A	ANSUL SUPPRESSION SYSTEM
DR	FIRE ALARM DOOR RELEASE
DC	DOOR CONTACTOR ROUGH-IN WITH CONDUIT TO ACCESSIBLE LOCATIONS ABOVE CEILING.
PA	GENERAL PAGING SYSTEM
KP	KEYPAD (ROUGH-IN W/CONDUIT TO ACCESSIBLE LOCATIONS ABOVE CEILING)
CR	CARD READER (ROUGH-IN W/CONDUIT TO ACCESSIBLE LOCATIONS ABOVE CEILING)
TS	TAMPER SWITCH
FS	FLOW SWITCH
ES	ELECTRONIC STRIKE (ACCESS CONTROL)
MAG	MAGNETIC LOCK (ACCESS CONTROL)

SYMBOL	DESCRIPTION
SEC	SECURITY PANEL
ANN	FIRE ALARM ANNUCIATOR
FACP	FIRE ALARM CONTROL PANEL
DCHT	SAFE DOOR CONTACT/ HEAT THERMAL
MM	MULTI-MEDIA BOX
GB	GLASS BREAK
	PANELBOARD AS SPECIFIED
	EXHAUST FAN

REFER TO LIGHTING PLAN FOR ADDITIONAL LOW VOLTAGE LIGHTING CONTROLS SYMBOLS

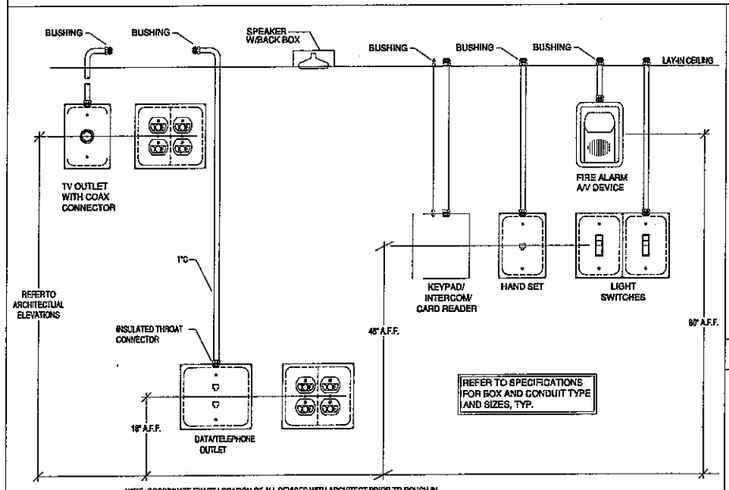
ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	NO (N.O.)	NORMALLY OPEN
BFC	BELOW FINISHED CEILING	RCPT(S)	RECEPTACLE(S)
C	CONDUIT	PNL	PANEL
CB	CIRCUIT BREAKER	SO (S.O.)	SPACE ONLY
CBA	COLOR BY ARCHITECT	SP	SPARE
EC	EMPTY CONDUIT	ST (S.T.)	SHUNT TRIP
EX	EXISTING	SW	SWITCH
E.C.	ELECTRICAL CONTRACTOR	UF	UNDERFLOOR
EWC	ELECTRIC WATER COOLER	UG	UNDERGROUND
EWH	ELECTRIC WATER HEATER	UNO(U.N.O.)	UNLESS NOTED OTHERWISE
F	FUSE	WG	WIRE GUARD
FACP	FIRE ALARM CONTROL PANEL	WP	WEATHERPROOF
FSCP	SECURITY CONTROL PANEL	XFMR	TRANSFORMER
G	GROUND (EQUIPMENT)	TBD	TO BE DETERMINED OR COORDINATED BY OWNER/ARCHITECT
GFCI	GROUND FAULT INTERRUPTER		
HD	HAND DRYER		
IC	INTERRUPTING CAPACITY		
IG	ISOLATED GROUND		
MTD	MOUNT OR MOUNTED		
NC (N.C.)	NORMALLY CLOSED		
NF	NONFUSED		
NIC	NOT IN CONTRACT		
NL	NIGHT LIGHT - ON 24 HRS		
PC	PHOTOCELL		
TC	TIME CLOCK		



NOTE: MINIMUM REQUIREMENTS INDICATED, REFER TO STRUCTURAL FOR ADDITIONAL REQUIREMENTS. THE CONCRETE POUR SHALL BE MONOLITHIC.

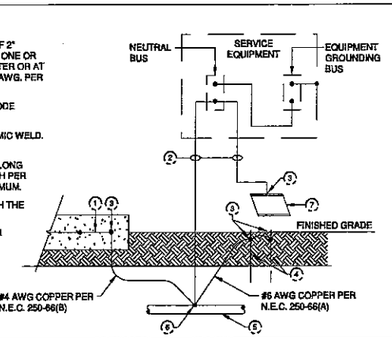
1 CONCRETE POLE BASE DETAIL
NOT TO SCALE



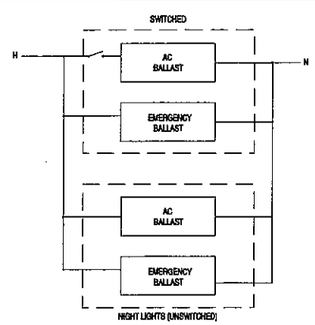
5 TYPICAL DEVICE ELEVATIONS (UNLESS NOTED OTHERWISE)
NOT TO SCALE

GROUNDING ELECTRODE KEYED NOTES

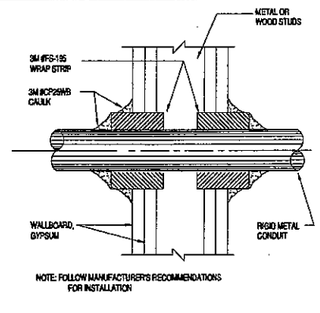
1. CONCRETE ENCASED ELECTRODE ENCASED BY A MINIMUM OF 2" CONCRETE OF FOUNDATION CONSISTING OF AT LEAST 20' OF ONE OR MORE STEEL REINFORCING BARS NOT LESS THAN 1/2" DIAMETER OR AT LEAST 20' OF BARE COPPER CONDUCTOR NOT LESS THAN #4 AWG. PER N.E.C. 250.52 (A) (3).
2. RGS CONDUIT WITH FULL SIZE COPPER GROUNDING ELECTRODE CONDUCTOR PER N.E.C. TABLE 250-66
3. CONNECTION SHALL BE CADWELD COPPER-BASED EXOTHERMIC WELD.
4. COPPER BONDED STEEL ELECTRODE 5/8" IN DIAMETER 10'-0" LONG WITH A MINIMUM OF 8'-0" IN DIRECT CONTACT WITH THE EARTH I PER N.E.C. 250-52 (A) (5). TWO (2) REQUIRED, SEPARATE BY 6' MINIMUM.
5. METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10'-0" OR MORE PER N.E.C. 250.52 (A) (1)
6. BOLTED TYPE CONNECTION SUITABLE FOR DIRECT BURIAL OR EXOTHERMIC WELD (TYP)
7. METAL FRAME OF BUILDING PER N.E.C. 250.52 (A) (2)



2 GROUNDING ELECTRODE SYSTEM DETAIL
NOT TO SCALE



3 EMERGENCY BALLAST WIRING
NOT TO SCALE



4 1 AND 2 HR. GYPSUM/WALLBOARD PIPE PENETRATION
NOT TO SCALE

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REGISTRATION NO. 22147
STATE OF TEXAS

Final Plans for Bidding and Construction

JUSTICE OF THE PEACE 3 BUILDING
GONZALES COUNTY
VICTORIA, TX

DATE ISSUED:
3/28/2019

PROJECT NUMBER:
872-1118

PLAN NORTH / TRUE NORTH

SHEET NAME
ELECTRICAL DETAILS

SHEET NUMBER
E5.1

STATE OF TEXAS
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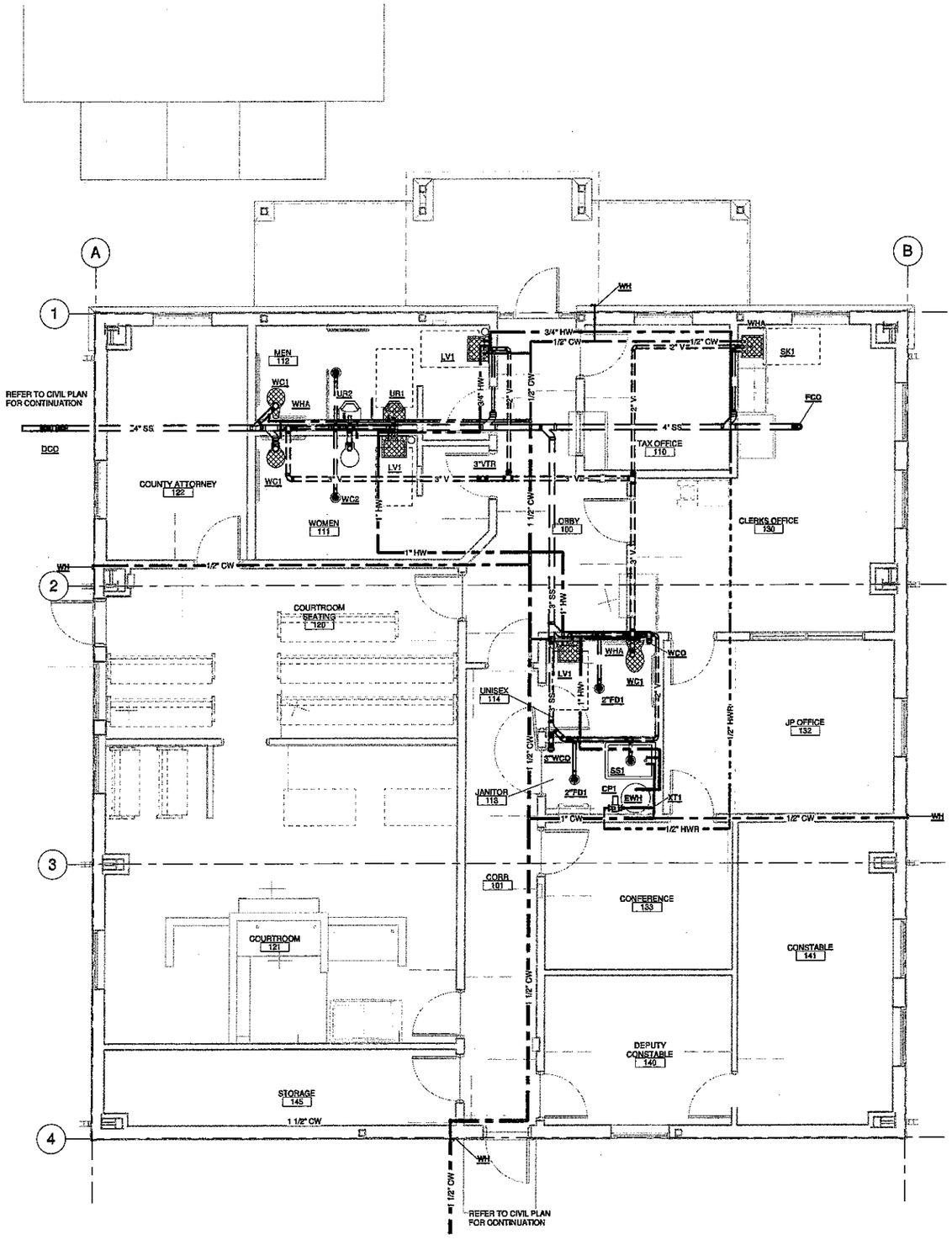

1 PLUMBING FLOOR PLAN
1/4" = 1'-0"

PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.
2. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.
3. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
4. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.
5. PLUMBING CONTRACTOR TO FIELD COORDINATE WITH STRUCTURAL. ROUTE SANITARY LINES OUT AND AWAY FROM BEAMS WHERE POSSIBLE AND CROSS BEAMS PERPENDICULAR WITH SLEEVES AS REQUIRED.

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STATE OF TEXAS
SEAN M. RODRIGUEZ
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PLUMBING LEGEND

DISREGARD LEGEND ITEMS NOT INDICATED ON DRAWINGS

SYMBOL	DESCRIPTION	ABBR.
————	SOIL OR WASTE PIPING B.G.	WST
————	SOIL OR WASTE PIPING A.G.	WST
—GW—	GREASE WASTE PIPING	GW
- - - - - -	VENT PIPING	V
—SD—	STORM DRAIN PIPING	SD
—OD—	OVERFLOW STORM DRAIN PIPING	OD
—G—	GAS LINE	G
—F—	FIRE OR SPRINKLER LINE	F
—CW—	DOMESTIC COLD WATER	CW
—HW—	DOMESTIC HOT WATER	HW
- - - - - -	DOMESTIC HOT WATER RETURN	HWR
—TW—	TEMPERED DOMESTIC HOT WATER	TW
—GV—	GATE VALVE	GV
—GLV—	GLOBE VALVE	GLV
—BV—	BALL VALVE	BV
—CKV—	CHECK VALVE	CKV
—BAV—	BALANCING VALVE	BAV
—BTV—	BUTTERFLY VALVE	BTV
—PLV—	PLUG VALVE	PLV
—PRV—	PRESSURE REDUCING VALVE	PRV
—T&P—	PRESSURE RELIEF VALVE	T&P
—STR—	STRAINER	STR
—UN—	UNION	UN
—TW—	THERMOMETER WELL	TW
—PG—	PRESSURE GAUGE	PG
—THRM—	THERMOMETER	THRM
—D—	CONDENSATE OR INDIRECT DRAIN	D
—⊕—	BRANCH CONNECTION, TOP	--
—⊕—	BRANCH CONNECTION, BOTTOM	--
—○	ELBOW UP	--
—○	ELBOW DOWN	--
—⌀	FLOOR CLEANOUT (INTERIOR)	FCO
—▨	CLEANOUT AT GRADE (EXTERIOR)	CCG
—|	WALL CLEANOUT	WCO
—FD	FLOOR DRAIN	FD
—FS	FLOOR SINK	FS
—HB	HOSE BIBB	HB
—WH	WALL HYDRANT	WH
—P/X—	NEW TO EXISTING PIPE CONNECTION	--
P/X	PLUMBING RISER IDENTIFICATION	P/X

	ABBREVIATIONS	ABBR.
--	ABOVE FINISHED FLOOR	AFF
--	ACCESS PANEL	AP
--	BELOW FINISHED FLOOR	BFF
--	BOTTOM OF PIPE	BOP
--	INDIRECT DRAIN	D
--	FINISHED	FIN
--	FLOOR	FLR
--	INVERT ELEVATION	INV. EL.
--	NORMALLY CLOSED	NC
--	SOFT WATER	SW
--	TRAP PRIMER	TP
--	TYPICAL	TYP
--	VENT THRU ROOF	VTR

NOT ALL SYMBOLS MAY BE USED

GENERAL NOTES:

1. CONTRACTOR TO FIELD VERIFY ELEVATIONS AND DIMENSIONS OF FINISHED FLOORS AND WALLS. TRUE ALL DRAINS, ROUGH-INS AND CARRIERS IN ACCORDANCE WITH THE PROPOSED ELEVATIONS AND FINISHED SURFACES.
2. MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG OR COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION OF ROUGH-IN WORK.
3. FOR ALL FIXTURES AND EQUIPMENT WITH ASSOCIATED TRIM OR COMPONENT ACCESSORIES, PROVIDE 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 (WERE EXPOSED), AND FITTED TIGHT TO CHROME PLATED BRASS WALL ESCUTCHEON PLATES. SUPPLY RISERS SHALL BE TYPE "L" TUBING, CHROME PLATED. PROVIDE 1/2" FIP X 3/8" OD COMPRESSION FITTINGS FOR ALL SINKS, LAVATORIES, AND SIMILAR FIXTURES.
6. ALL P-TRAPS WITHIN THE BUILDING, ABOVE GRADE AND EXPOSED TO INSPECTION SHALL BE CHROME PLATED ADJUSTABLE CAST BRASS WITH CLEANOUT PLUG. PROVIDE CAST SLIP NUTS AND WASHERS, 17 GAGE SEAMLESS TUBULAR BRASS DRAIN TO WALL AND WALL FLANGE. PROVIDE 1-1/2" P-TRAP FOR ALL LAVATORIES AND SIMILAR FIXTURES. PROVIDE 1-1/2" P-TRAP FOR ALL SINKS AND SIMILAR FIXTURES, MCGUIRE OR EQUAL.
7. ALL ROUGH-IN OPENINGS SHALL BE FITTED WITH CHROME PLATED, WROUGHT BRASS DEEP BELL OR BOX ESCUTCHEON PLATES FITTED TIGHT TO PIPE AND FLUSH TO WALL. STEEL ESCUTCHEON PLATES ARE NOT ACCEPTED.
8. ALL EXPOSED BRASS SHALL BE CHROME PLATED.
9. ALL HANDICAPPED ACCESSIBLE FIXTURES SHALL BE OF APPROVED TYPES AND WITH REQUIRED CONTROLS INSTALLED TO HEIGHTS AND CLEARANCES, AS PRESCRIBED BY THE AMERICAN DISABILITIES ACT (ADA) AND THE TEXAS ACCESSIBILITY STANDARDS (TAS). FIXTURES SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL ACCESSIBILITY CODE REQUIREMENTS. PROVIDE FIXTURES WITH DEPTHS AT MAXIMUM PERMITTED AND AVAILABLE FOR INTENDED FIXTURE USE.
10. INSULATE ALL EXPOSED WATER AND DRAIN LINES ON ADA/TAS ACCESSIBLE LAVATORIES AND SINKS WITH MCGUIRE PRO WRAP OR EQUAL. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO PROVIDE MINIMUM CLEARANCES.
11. ALL ADA/TAS SINKS SHALL BE STAMPED WITH DRAIN OUTLET AT THE REAR OF THE BOWL.
12. PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE IN ACCORDANCE WITH SENATE BILL 867 FOR WATER SAVING PERFORMANCE. LAVATORY AND SINK FAUCETS SHALL INCLUDE 2.2 GPM FLOW CONTROL.
13. ORIENT ADA/TAS WATER CLOSET FLUSH VALVE WITH OPERATOR ON LARGE SIDE OF ENCLOSURE AND BELOW GRAB BARS.
14. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE LATEX CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
15. FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF UNIFORMLY SLOPED FLOOR. CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO INSURE FLOORS ARE UNIFORMLY SLOPED 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.
16. EQUIVALENT MANUFACTURES OF CHINA FIXTURES ARE KOHLER, ELJIER, AND CRANE. EQUIVALENT MANUFACTURES OF STAINLESS FIXTURES ARE JUST AND ELKAY.
17. WATER HEATER SHALL BE PROVIDED WITH CODE APPROVED VACUUM BREAKER AND BRASS ASME TEMPERATURE AND PRESSURE RELIEF VALVE. ROUTE TPR DRAIN LINE FULL SIZED TO EXTERIOR OF BUILDING AND TERMINATE 6" ABOVE FINISHED GRADE, OR AS INDICATED ON PLANS.
18. ROOF PENETRATIONS SHALL BE DONE IN STRICT COMPLIANCE WITH THE ARCHITECTS SPECIFICATIONS AND SHALL BE LEAK PROOF.
19. FIELD VERIFY ALL EXISTING CONDITIONS AND LOCATION OF STUB OUTS. NOTIFY ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY WHICH MAY AFFECT THE INTENDED DESIGN.
20. ALL PLUMBING WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL STATE AND LOCAL CODES.
21. THE PLUMBING CONTRACTOR SHALL GUARANTEE THE COMPLETE PLUMBING SYSTEM TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF 12 MONTHS FROM DATE OF FINAL ACCEPTANCE.
22. ALL WATER HEATER SUPPLY CONNECTIONS SHALL HAVE HEAT TRAP NIPPLE CONNECTIONS. HEAT TRAP NIPPLES NOT REQUIRED IF HOT WATER RECIRCULATION SYSTEM IS PROVIDED.

PLUMBING FIXTURE SCHEDULE

SYMB.	PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
		WST & VENT		DRAIN	CW	HW	
	LAVATORY LV1 (WALL HUNG)	2"	1-1/2"	1-1/4"	1/2"	1/2"	AMERICAN STANDARD NO.0355.012 "LUCERNE" WALL MOUNTED LAVATORY: TAS COMPLIANT, WHITE, FRONT OVERFLOW, CONCEALED WALL CARRIER, 4" O.C. TAPPING; MIFAB MC-41 SERIES FLOOR MOUNTED CONCEALED ARM CARRIER WITH TWO UPRIGHTS; A.S. NO. 7755.335 SENSOR FAUCET; C.P. 0.5 AERATOR, DECK PLATE, BATTERY POWERED, HOT AND COLD WATER MIXING THERMOSTATIC ASSE 1070 CERT., SET AT 105°F; WASTE: 1-1/4" 17 GA C.P. BRASS OFFSET TAILPIECE WITH GRID STRAINER, 1-1/4" 17 GA BRASS C.P. ADJ. "P"-TRAP W/C.O., ESCUTCHEON; SUPPLY: C.P. ANGLE SUPPLIES W/STOPS, 3/8" FLEX TUBE RISERS, ESCUTCHEONS. PROVIDE TRUEBRO FACTORY CUT LAV SHIELD NO. 2018-AS-L FOR EXPOSED PIPING. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
	SINK SK1 (SINGLE COMPARTMENT)	2"	1-1/2"	1-1/2"	1/2"	1/2"	ELKAY LRAD1916GR "LUSTERTONE" SINK: TAS COMPLIANT, 18 GA. TYPE 302 S.S., SATIN FINISH, SELF RIMMING, FITTING DECK, BACK LEDGE, SOUND DAMPENER, 3-HOLE, 19"x16"x6", REAR OFFSET DRAIN; TAS BRASS B-0666-07-PV FAUCET: C.P. BRASS, 6" SWIVEL GOOSENECK, DECK MOUNT, WRIST BLADE HANDLES, 2.2 GPM VR AERATOR, 8" CENTER; WASTE: LK-18 3-1/2" NO. BRASS DRAIN BODY W/ GRID STRAINER, 1-1/2" TAILPIECE; 1-1/2" 17GA. C.P. BRASS ADJ. "P"-TRAP W/C.O., ESCUTCHEON; SUPPLY: C.P. ANGLE SUPPLIES WITH STOPS, 1/2" FLEX TUBE RISERS, ESCUTCHEONS; TRUEBRO 102-EZ INSULATION KIT FOR TAS/ADA.
	SERVICE SINK SS1 (FLOOR MOUNTED)	3"	2"	3"	1/2"	1/2"	FIAT MSB-2424 MOLDED STONE 24"x24"x10" WITH AND STAINLESS STEEL CAP ON THRESHOLD MODEL E-88-AA; CAULK OUTLET BRASS DRAIN WITH S.S. STRAINER. PROVIDE A KOHLER No. K8907-RP SERVICE SINK FAUCET WITH VACUUM BREAKER HOSE END SPOUT, PAIL HOOK AND TOP REINFORCING BRACKET. PROVIDE WITH MOP HANGER BRACKET FOR UP TO 3 MOPS.
	URINAL UR1	2"	2"	1-1/2"	3/4"	—	AMERICAN STANDARD NO. 6550.001 "ALLBROOK" URINAL: TAS COMPLIANT, SIPHON JET, V.C., WHITE, WALL HUNG, 3/4" TOP SPUD, 0.5 GAL. FLUSH, 14" LIP, MOUNT AT 17" A.F.F. TO TOP OF LIP; SLOAN ROYAL NO.186-0.5 FLUSH VALVE: 0.5 GPF, DIAPHRAGM TYPE, EXPOSED, C.P., 3/4" VACUUM BREAKER TOP SPUD, MANUAL OPERATED; ZURN ZR-1222 C.I. WALL CARRIER: C.I., FLOOR MOUNTED.
	URINAL UR2	2"	2"	1-1/2"	3/4"	—	AMERICAN STANDARD NO. 6550.001 "ALLBROOK" URINAL: SIPHON JET, V.C., WHITE, WALL HUNG, 3/4" TOP SPUD, 0.5 GAL. FLUSH, 14" LIP, REFER TO ARCHITECTURAL FOR MOUNTING HEIGHT; SLOAN ROYAL NO.186-0.5 FLUSH VALVE: 0.5 GPF, DIAPHRAGM TYPE, EXPOSED, C.P., 3/4" VACUUM BREAKER TOP SPUD, MANUAL OPERATED; ZURN ZR-1222 C.I. WALL CARRIER: C.I., FLOOR MOUNTED.
	WATER CLOSET WC1 (TANK TYPE)	4"	2"	4"	1/2"	—	AMERICAN STANDARD 215AA.104 "CADET" FLUSH TANK WATER CLOSET: ADULT TAS COMPLIANT, 17"-19" MAX. TOP OF SEAT, FLOOR MOUNTED, BOTTOM OUTLET, V.C., 1.28 GPF, ELONGATED, WHITE, BOLT CAPS, CLOSET SEAL, MOUNT WITH HANDLE AT WIDE SIDE OF STALL; CHURCH 2558SC SEAT: ELONGATED, PLASTIC, WHITE, OPEN FRONT, SS POSTS, SELF SUSTAINING CHECK HINGE; SUPPLY: C.P. ANGLE SUPPLY WITH STOP, 3/8" FLEX TUBE RISER, ESCUTCHEON.
	WATER CLOSET WC2 (TANK TYPE)	4"	2"	4"	1/2"	—	AMERICAN STANDARD 215CA.104 "CADET" FLUSH TANK WATER CLOSET: 15" TOP OF SEAT, FLOOR MOUNTED, BOTTOM OUTLET, V.C., 1.28 GPF, ELONGATED, WHITE, BOLT CAPS, CLOSET SEAL; CHURCH 2558SC SEAT: ELONGATED, PLASTIC, WHITE, OPEN FRONT, SS POSTS, SELF SUSTAINING CHECK HINGE; SUPPLY: C.P. ANGLE SUPPLY WITH STOP, 3/8" FLEX TUBE RISER, ESCUTCHEON.

PLUMBING EQUIPMENT SCHEDULE

SYMB.	PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
		WST & VENT		DRAIN	CW	HW	
	ELECTRIC WATER HEATER EWH Total Length Is. = 150.00 Total G.P.M. = 1.56 Total Head in Feet = 7'-8" Pipe Size = 1/2"	—	—	—	3/4"	3/4"	A.O. SMITH NO. DEL-20S-4.5 WATER HEATER: 20 GALLON STORAGE, 14 GPH RECOVERY AT 80°F TEMPERATURE RISE, 4.5 KW SINGLE ELEMENT, 208V-1-60; INSULATED, JACKETED, ANODE, ON-OFF SWITCH, 150PSI RATED WORKING PRESSURE, GLASS LINED TANK, ASME TPR VALVE, 6 YEAR WARRANTY, BRASS DRAIN VALVE, AND MFG'S HEAT TRAPS. NO. 100108459 26" ALUM. DRAIN PAN. (OR) HOLDRITE NO. 20-SWHP-WM 24"X24" WALL MOUNTED EQUIP. PLATFORM W/ DRAIN FITTING, WATER TIGHT.
○	EXPANSION TANK XT	---	—	—	3/4"	—	AMTROL No. ST-5, HEAVY DUTY BUTYL, FDA APPROVED DIAPHRAGM, POLYPROPYLENE LINED DOME WITH 2.0 GALLON VOLUME. ELBI IS AN EQUIVALENT MANUFACTURE.
	CIRCULATING PUMP CP CHECK CALCS FOR PROPER GPM AND HEAD PRESSURE.	—	—	—	---	3/4"	GRUNDFOS MODEL No. UP15-10B5, IN-LINE, LEAD-FREE BRONZE CIRCULATOR. PROVIDE 3/4" SWEAT CONNECTION. 1 PHASE, 65 WATTS, 115 VOLTS, 1/25HP. PROVIDE WITH AQUASTAT, SWITCHES PUMP ON AT 105°F, AND OFF AT 115°F. 2 GPM AND 8 FOOT OF HEAD.
	FLOOR CLEANOUT FCO	SEE PLAN	SEE PLAN	SEE PLAN	—	---	SIOUX CHIEF 852-XPIV "PVC" FLOOR CLEANOUT: SIZE PVC HUB, C.I. MED. DUTY LOOSE SET COVER, VANDAL-PROOF SCREWS, THREADED PVC PLUG; MOUNT COVER FLUSH WITH FLOOR.
	FLOOR DRAIN FD1 (REST ROOMS)	2"	1-1/2"	2"	—	---	WADE 1100-A-1 FLOOR DRAIN: CAST IRON DRAIN BODY WITH 1/2" IPS TRAP PRIMER TAP, BOTTOM OUTLET, CLAMPING COLLAR, WEEP HOLES, V.P. SCREWS, ADJUSTABLE TOP; STRAINER: 6" DIAMETER, LIGHT DUTY, NICKEL BRONZE, HEEL PROOF PERFORATED; DEEP SEAL TRAP. PROVIDE PROSET SYSTEMS TRAP GUARD INSERT.
	FLOOR DRAIN FD2 (JANITOR)	2"	1-1/2"	2"	---	—	WADE 1100-A-1 FLOOR DRAIN: CAST IRON DRAIN BODY, BOTTOM OUTLET, CLAMPING COLLAR, WEEP HOLES, V.P. SCREWS, ADJUSTABLE TOP; STRAINER: 6" DIAMETER, LIGHT DUTY, NICKEL BRONZE, HEEL PROOF PERFORATED.
	WALL CLEANOUT WCO	SEE PLAN	SEE PLAN	SEE PLAN	---	---	ZURN NO. ZS1469-7-VP ROUND STAINLESS STEEL ACCESS COVER COMPLETE WITH SECURING SCREW. PROVIDE CLEANOUT PLUG TO MATCH PIPE MATERIAL.
	WALL HYDRANT WH	—	—	—	3/4"	---	WOODFORD MODEL #75, MODERATE CLIMATE WALL HYDRANT W/ ANTI-SPHON VACUUM BREAKER, EXPOSED FLUSH WITH WALL.
○	WATER HAMMER ARRESTOR WHA	SEE PLAN	SEE PLAN	SEE PLAN	---	---	SIOUX CHIEF MODEL 652A, TYPE I COPPER TUBE, POLY PISTON WITH TWO EPDM O-RINGS. INSTALL TO MANUFACTURES SPECIFICATIONS.

PLUMBING PIPE MATERIALS SCHEDULE

PIPING SYSTEM	PIPING MATERIAL
SANITARY SEWER BELOW GRADE	SCHEDULE 40 DWV PVC
SANITARY DRAIN AND VENTS ABOVE GRADE	SCHEDULE 40 DWV PVC *
DOMESTIC HOT & COLD WATER BELOW GRADE	COPPER, TYPE "K" SOFT
DOMESTIC HOT & COLD WATER ABOVE GRADE	COPPER, TYPE "L" HARD DRAWN
HOT WATER PIPE INSULATION	1" RIGID FIBER GLASS

* SCHEDULE 40 DWV PVC SHALL NOT BE USED IN RETURN AIR PLENUMS. WHERE CEILING PLENUMS ARE USED FOR RETURN AIR, CONTRACTOR SHALL ONLY USE BELL AND SPIGOT SERVICE WEIGHT CAST IRON PIPE.

PLUMBING FIXTURE UNITS

FIXTURE	QTY.	DRAINAGE			WATER SUPPLY					
		TRAP SIZE	DFU EA	SDFU	WSFU EA	TOT. WSFU	CW WSFU	HW WSFU	PEAK GPM
WATER CLOSET - TANK	4	-	4	16	10	40	40	-	25.00
LAVATORY	3	1 1/4"	1	3	2	6	4.5	4.5	0.40
SERVICE SINK	1	2"	2	2	3	3	2.25	2.25	3.00
URINAL	2	-	2	4	5	10	10	-	12.00
SINK	1	1 1/2"	2	2	3	3	2	2	1.75
2" TRAP	2	2"	3	6					
TOTAL FU				33		62	59	9	
TOTAL GPM				17		32	31	14	
PIPE SIZE				4"		1.5"	1.5"	1"	

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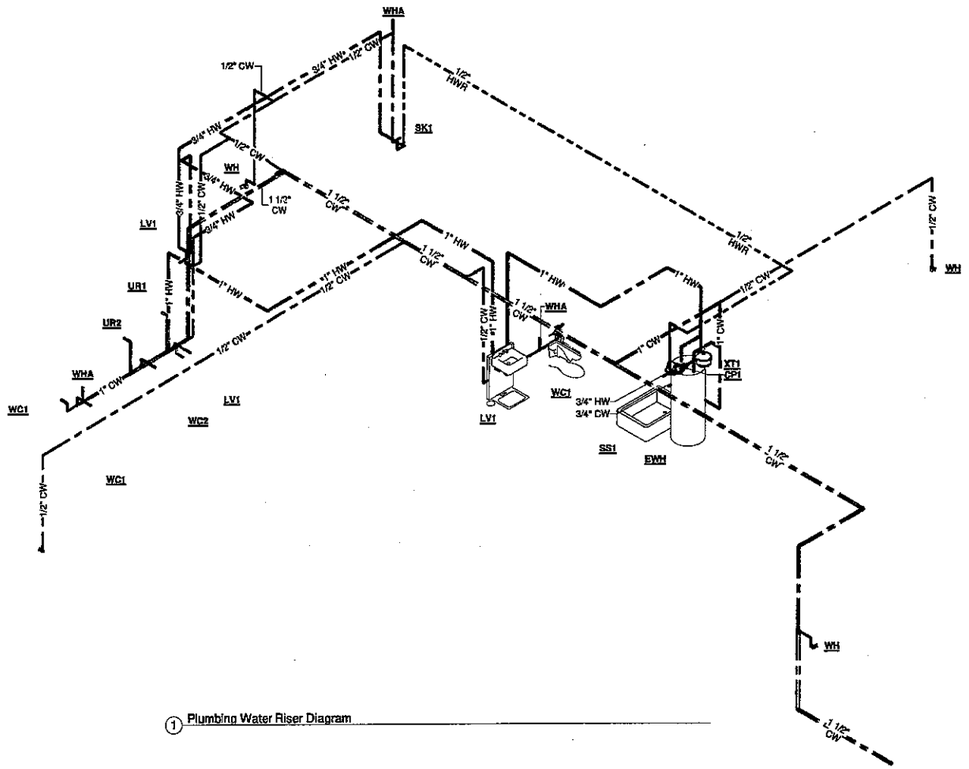
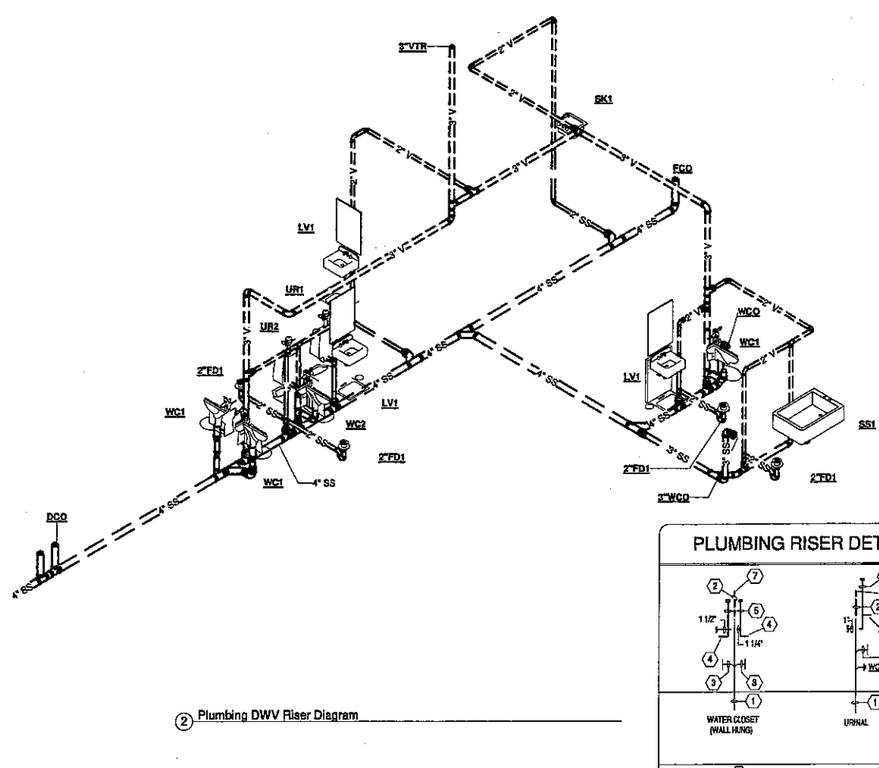
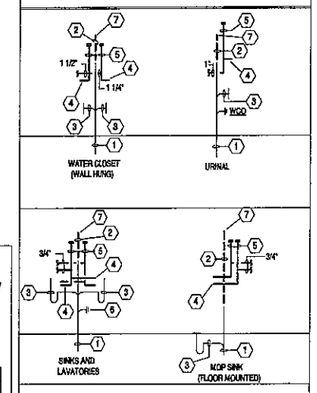


1 Plumbing Water Riser Diagram



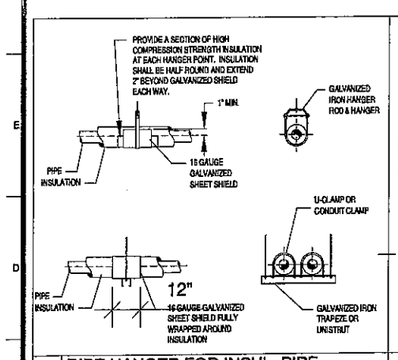
2 Plumbing DWV Riser Diagram

PLUMBING RISER DETAILS

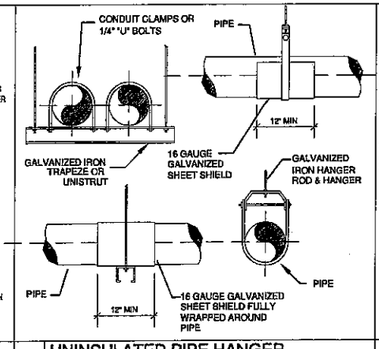


KEYED NOTES - RISER DIAGRAM DETAILS:

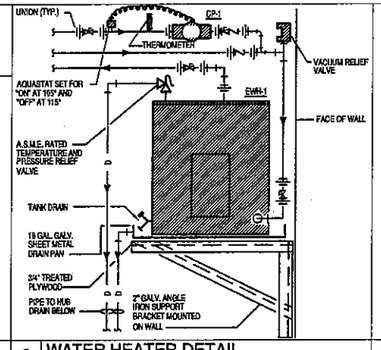
1. REFER TO PLUMBING FIXTURE SCHEDULE FOR SOIL OR WASTE ROUGH-IN PIPE SIZE. MINIMUM SOIL OR WASTE DRAIN LINE SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
2. REFER TO PLUMBING FIXTURE SCHEDULE FOR SANITARY VENT ROUGH-IN PIPE SIZE. MINIMUM SANITARY VENT BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
3. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE DRAIN ROUGH-IN PIPE SIZE. MINIMUM FIXTURE DRAIN AND TRAP SIZE 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. PROVIDE AIR CHAMBER, MINIMUM ONE PIPE SIZE LARGER THAN FIXTURE ROUGH-IN OPENING AND MINIMUM 18" IN LENGTH ABOVE SUPPLY BRANCH CONNECTION.
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 A MINIMUM 42" ABOVE FIN. FLOOR.



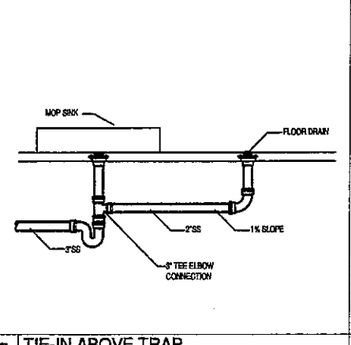
4 PIPE HANGER FOR INSUL. PIPE — HOT TO SCALE — PWHE203



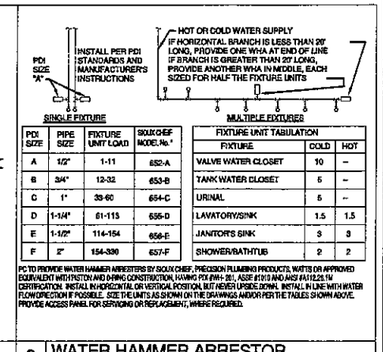
5 UNINSULATED PIPE HANGER — HOT TO SCALE — PWHE203



6 WATER HEATER DETAIL — HOT TO SCALE — PWHE203



7 TIE-IN ABOVE TRAP — HOT TO SCALE — PPTP185



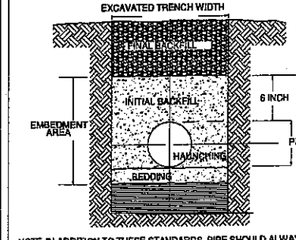
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD	SIOUX CHIEF MODEL No.*
A	1/2"	1-11	652-A
B	3/4"	12-32	653-B
C	1"	33-60	654-C
D	1-1/4"	61-113	655-D
E	1-1/2"	114-154	656-E
F	2"	154-330	657-F

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2

PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI (WH-201, ASSE #1010 AND ANSI #1172.25.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESS PANEL FOR SERVICING OR REPLACEMENT, WHERE REQUIRED.

8 WATER HAMMER ARRESTOR — HOT TO SCALE — PPTP100

UNDERGROUND INSTALLATION OF PLASTIC PIPE



NOTE: IN ADDITION TO THESE STANDARDS, PIPE SHOULD ALWAYS BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODE REQUIREMENTS.

PLASTIC PIPE SHOULD ALWAYS BE BURIED IN STRICT ACCORDANCE WITH THE ASTM STANDARD RELEVANT TO THE TYPE OF PLASTIC PIPING SYSTEM BEING INSTALLED. THOSE STANDARDS ARE:

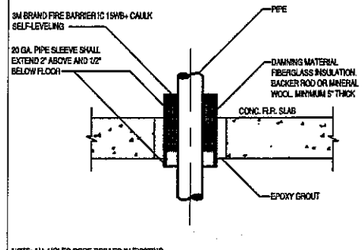
ASTM D2321 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS.

ASTM D2774 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING.

1. THE MINIMUM WIDTH OF THE TRENCH SHOULD BE THE PIPE OD (OUTSIDE DIAMETER) PLUS 16 INCHES OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 INCHES. THIS WILL ALLOW ADEQUATE ROOM FOR JOINING THE PIPE, SNAKING THE PIPE IN THE TRENCH TO ALLOW FOR EXPANSION AND CONTRACTION WHERE APPROPRIATE AND SPACE FOR BACKFILLING AND COMPACTION OF BACKFILL. THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN THE COMPACTION EQUIPMENT USED TO COMPACT THE BACKFILL.
2. PROVIDE A MINIMUM OF 4 INCHES OF FIRM, STABLE AND UNIFORM BEDDING MATERIAL IN THE TRENCH BOTTOM. IF ROCK OR UNYIELDING MATERIAL IS ENCOUNTERED, A MINIMUM OF 6 INCHES OF BEDDING SHALL BE USED. BLOCKING SHOULD NOT BE USED TO CHANGE PIPE GRADE OR TO INTERMITTENTLY SUPPORT PIPE OVER LOW SECTIONS IN THE TRENCH.
3. PIPE SHOULD BE SURROUNDED WITH AGGREGATE MATERIAL WHICH CAN BE EASILY WORKED AROUND THE SIDES OF THE PIPE. BACKFILLING TO BE PERFORMED IN LAYERS OF 6 INCHES WITH EACH LAYER BEING SUFFICIENTLY COMPACTED TO 85% TO 95% COMPACTION.
4. A MECHANICAL TAMPER IS RECOMMENDED FOR COMPACTING SAND AND GRAVEL. THESE MATERIALS CONTAIN FINE-GRAINS, SUCH AS SILT AND CLAY. IF A TAMPER IS NOT AVAILABLE, COMPACTING SHOULD BE DONE BY HAND.
5. THE TRENCH SHOULD BE COMPLETELY FILLED. THE BACKFILL SHOULD BE PLACED AND SPREAD IN UNIFORM LAYERS TO PREVENT ANY UNFILLED SPACES OR VOIDS. LARGE ROCKS, STONES, FROZEN CLODS, OR OTHER LARGE DEBRIS SHOULD BE REMOVED. STONE BACKFILL SHALL PASS THROUGH AN 1-1/2" SIEVE. ROCK SIZE SHOULD BE ABOUT ONE-TENTH OF THE PIPE OUTSIDE DIAMETER. HEAVY TAMPERS OR ROLLING EQUIPMENT SHOULD ONLY BE USED TO CONSOLIDATE THE FINAL BACKFILL.
6. TO PREVENT DAMAGE TO THE PIPE AND DISTURBANCE TO PIPE EMBEDMENT, A MINIMUM DEPTH OF BACKFILL ABOVE THE PIPE SHOULD BE MAINTAINED. PIPE SHOULD ALWAYS BE INSTALLED BELOW THE FROST LEVEL. TYPICALLY, IT IS NOT ADVISABLE TO ALLOW VEHICULAR TRAFFIC OR HEAVY CONSTRUCTION EQUIPMENT TO TRAVERSE THE PIPE TRENCH.

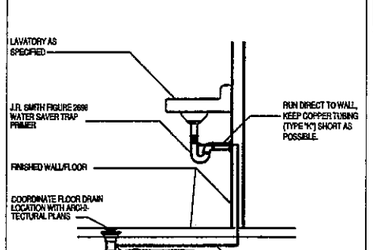
1 UNDERGROUND INSTALLATION DETAIL OF PLASTIC PIPING SYSTEMS — HOT TO SCALE

UNDERGROUND INSTALLATION



NOTE: ALL HOLES CORE DRILLED IN EXISTING CONCRETE FLOOR SLABS SHALL BE FIELD COORDINATED TO INSURE LOCATIONS ARE COORDINATED WITH ARCHITECTURAL DIMENSIONED DRAWINGS. FIRE STOP MATERIAL SHALL BE UL 1479/2079 CERTIFIED

2 PIPE PENETRATION THRU FLOOR — HOT TO SCALE — PPDP180



3 TRAP PRIMER DETAIL — HOT TO SCALE — PPTP185

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Final Plans for Bidding and Construction

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VICTORIA, TX

ROLF T. RMA ECT & ASSOCIATES

DATE ISSUED: 3/28/2019

PROJECT NUMBER: 872-1118

STATE OF TEXAS
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