



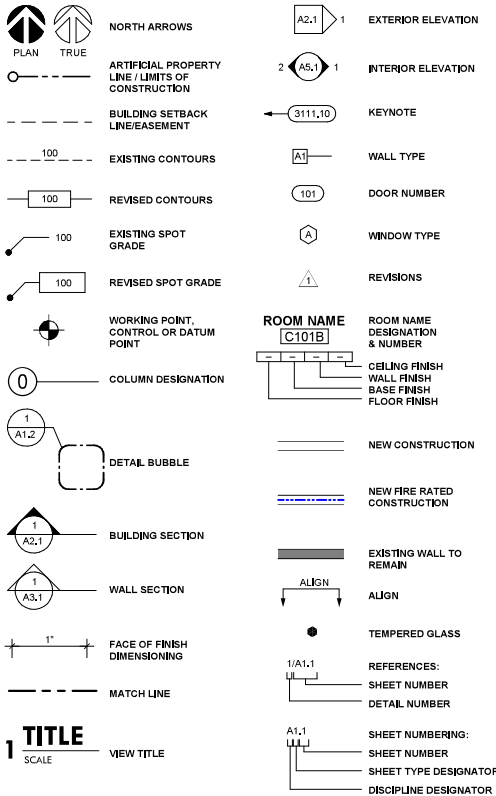
KINGSVILLE FIRE STATION NO. 3

2602 S 6TH ST.
KINGSVILLE, TX 78363

BRW PROJECT NO.: 223136.00
CLIENT PROJECT NO. IF APPLICABLE
APRIL 24, 2024



SYMBOL LEGEND



ARCHITECTURAL ABBREVIATIONS

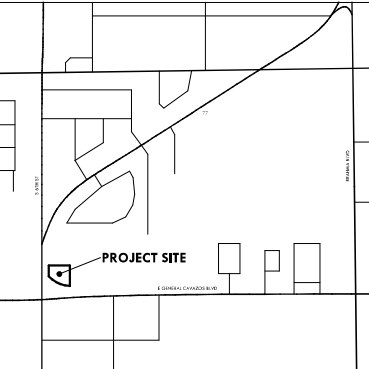
A.F.F. ABOVE FINISH FLOOR
B.O. BOTTOM OF
C.J. CONTROL JOINT
CLR. CLEAR
DIA. DIAMETER
DN. DOWN
E.J. EXPANSION JOINT
EQ. EQUAL
F.F. FINISH FLOOR
F.V. FIELD VERIFY
GA. GAUGE
M.O. MASONRY OPENING
MAX. MAXIMUM
MIN. MINIMUM

MNTD. MOUNTED
NOM. NOMINAL
N.C. NOT IN CONTRACT
O.C.(E.W.) ON CENTER (EACH WAY)
O.H. OPPOSITE HAND
RE. REFERENCE
REQ. REQUIRED
R.O. ROUGH OPENING
SM. SMALL
T.O. TOP OF
TYP. TYPICAL
W. WITH
W.B. WIND BRACE
W.P. WORKING POINT

CODE INFORMATION

REFER TO CODE COMPLIANCE SHEETS G1.X

VICINITY MAP



BID ALTERNATES

DEDUCT ALTERNATE 1: FOUR FOLD DOORS
CHANGE FOUR-FOLD DOORS AT THE FRONT OF THE STATION TO
UPWARD ACTING SECTIONAL DOORS

DEDUCT ALTERNATE 2: COVERED AVADECK PARKING
DELETE AVADECK COVERED PARKING STRUCTURE

AREA TABULATION

ALL SITE AND BUILDING AREA TABULATIONS SHOWN ARE FOR
OWNER AND GOVERNING AUTHORITY REFERENCES ONLY.
CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN QUANTITY
AND AREA CALCULATIONS.

OWNER

CITY OF KINGSVILLE
KINGSVILLE FIRE DEPARTMENT
P.O. BOX 1458
KINGSVILLE, TX, 78364
361.592.6445

ARCHITECT

BROWN REYNOLDS WATFORD ARCHITECTS, INC.
175 CENTURY SQUEARE DRIVE, SUITE 350
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CIVIL/ STRUCTURAL ENGINEER

GESSNER ENGINEERING
401 W. 26TH STREET, SUITE 3
BRYAN, TEXAS 77803
979.680.8840

MECHANICAL / ELECTRICAL / PLUMBING ENGINEER

DBR ENGINEERING

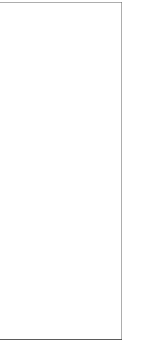
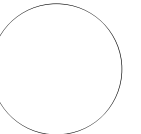
9990 RICHMOND AVE., SOUTH BUILDING, SUITE 300
HOUSTON, TEXAS 77042
713.914.0888

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BROWN REYNOLDS WATFORD ARCHITECTS, INC.
DATE APRIL 24, 2024
DRAWN BY SD, SP, LG, CD, JD
CHECKED BY JD, RH, MW
BRW PROJECT NUMBER 223136.00



NO.	REVISION	DATE



ISSUE FOR BID

TITLE SHEET

MASTER KEYNOTE LIST

0100	DIVISION 01 - GENERAL REQUIREMENTS	0640.50	PLASTIC LAMINATE CLAD END PANEL	0920.04	3 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.	2600	DIVISION 26 - ELECTRICAL (RE: ELECTRICAL)
0200	DIVISION 02 - EXISTING CONDITIONS (TO REMAIN, U.N.O.) & DEMOLITION	0640.52	3/4" PLASTIC LAMINATE CLAD PLYWOOD	0920.05	4" METAL STUDS AT 16" O.C.	2620.01	CONDUIT
0220.03	EXISTING POWER POLE	0640.59	COUNTERTOP BRACKET	0920.07	6" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.	2620.04	ELECTRICAL OUTLET
0220.26	EXISTING FENCE	0640.65	METAL WORK SURFACE SUPPORT	0920.08	STUD BRACE AT 4'-0" O.C. MAX.	2630.01	EMERGENCY GENERATOR
0240.12	REMOVE EXISTING FENCE	0640.66	PLASTIC LAMINATE CLAD NIGHTSTAND	0920.10	7/8" FURRING CHANNELS AT 16" O.C.	2650.01	RECESSED LIGHT FIXTURE
0300	DIVISION 03 - CONCRETE	0640.67	PLASTIC LAMINATE CLAD FAUX BEAM	0920.13	4" METAL C-4 STUDS AT 2'-0" O.C.	2650.03	SURFACE-MOUNTED LIGHT FIXTURE
0310.02	3/4" CHAMFER	0640.68	PLASTIC LAMINATE VANITY WITH SHELVES	0920.17	5/8" GYPSUM BOARD ON METAL SUSPENSION SYSTEM	2650.04	SUSPENDED LIGHT FIXTURE
0310.06	WATER STOP	0660.04	FIBER-REINFORCED PLASTIC PANEL TRIM	0920.18	1" PORTLAND CEMENT STUCCO ON METAL LATH	2650.09	UNDER / OVER CABINET LIGHT
0310.09	SAWCUT CONTROL JOINT	0700	DIVISION 07 - THERMAL & MOISTURE PROTECTION	0920.20	METAL LATH	2650.17	LIGHT POLE AND FIXTURE ON CONCRETE BASE
0310.10	CONCRETE EXPANSION JOINT, FILL WITH SEALANT TO WITHIN 1/4" OF SURFACE	0710.01	BITUMINOUS DAMPROOFING	0920.22	STUCCO CASING BEAD	2650.19	CILING FAN
0320.01	DOWEL INTO CONCRETE SLAB	0710.02	SELF ADHERING SHEET WATERPROOFING MEMBRANE	0920.23	GYPSUM BOARD	2650.22	FLAGPOLE LIGHT
0320.02	STEEL REINFORCING	0710.03	MOLDED-SHEET DRAINAGE PANEL	0920.26	5/8" CEMENTITIOUS BACKER BOARD	2650.23	PENDANT LIGHT FIXTURE
0320.03	DOWEL SLEEVE AND END CAP	0720.02	3 1/2" BATT INSULATION	0920.27	1/2" EXTERIOR GYPSUM SHEATHING	2700	DIVISION 27 - COMMUNICATIONS
0330.01	CONCRETE	0720.05	6 1/4" BATT INSULATION	0920.28	5/8" GYPSUM BOARD (TYPE X)	2740.04	TELEVISION OR MONITOR
0330.02	CONCRETE SLAB	0720.05	2" CONTINUOUS INSULATION	0920.32	1/2" GYPSUM BOARD (TYPE X)	2800	DIVISION 28 - ELECTRONIC SAFETY & SECURITY
0330.05	CONCRETE GRADE BEAM	0720.07	SPRAY FOAM INSULATION	0920.33	2 LAYERS OF 1/2" GYPSUM BOARD	2810.05	PARKING ACCESS CONTROL ON METAL STANCHION AND CONCRETE FOOTING
0330.12	CONCRETE BOLLARD	0725.01	CONTINUOUS ADHESIVE BASE COAT	0920.34	1" SHAFT LINER	3100	DIVISION 31 - EARTHWORK
0330.18	CONCRETE LIGHT POLE BASE (RE: STRUCTURAL)	0725.01	UNDERSLAB VAPOR BARRIER	0920.35	GYPSUM BOARD GUSSETS AT 16" O.C. VERTICALLY	3120.01	GRADE
0360.02	CEMENT GROUT	0725.03	FLUID FILM AIR BARRIER SYSTEM	0920.36	CORNER BEAD, TYPICAL	3120.02	COMPACTED SELECT FILL
0360.03	FILL WITH GROUT	0725.04	FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM	0920.37	J-MOULD, TYPICAL	3120.03	COMPACTED SUBGRADE
0400	DIVISION 04 - MASONRY	0725.05	SELF-ADHERING DETAIL TRANSITION MEMBRANE	0920.38	GYPSUM BOARD CONTROL JOINT	3120.09	DIVISION 32 - EXTERIOR IMPROVEMENTS
0405.01	FLASHING END DAM	0730.04	SELF-ADHERING, HIGH-TEMPERATURE ROOFING SHEET UNDERLAYMENT	0920.42	L-BEAD, TYPICAL	3120.03	URME STABILIZED BASE COURSE
0405.02	MORTAR NET	0740.01	PREFINISHED METAL ROOF PANEL SYSTEM	0920.43	FOAM SHAPE OVER ADHESIVE	3120.10	CONCRETE SIDEWALK (RE: CIVIL)
0405.05	MASONRY VENEER WEEP / VENT	0740.02	PREFINISHED METAL WALL PANEL SYSTEM	0920.44	SOFFIT VENT AND STCOO EDGE TRIM	3120.14	CONCRETE PAVING (RE: CIVIL)
0420.01	ADJUSTABLE MASONRY WALL TIES AT 16" O.C.,E.W.	0740.04	PREFINISHED METAL PANEL TRIM	0920.45	ALUMINUM STUCCO F REVEAL	3210.22	PAVING EXPANSION JOINT - FILL WITH JOINT SEALER 1/4" BELOW SURFACE
0420.02	CONCRETE MASONRY UNIT HORIZONTAL REINFORCING	0740.06	RIDGE COVER	0930.01	TILE WATERPROOFING MEMBRANE	3210.24	PRE-CAST CONCRETE PAVING UNITS WITH TRUNCATED CONES (ADA COMPLIANT)
0420.03	4" FACE BRICK	0740.07	CONCEALED METAL CLIP	0930.11	METAL TILE TRIM	3210.30	6" CONCRETE CURB (WITH GUTTER AS REQUIRED) (RE: CIVIL)
0420.04	BRICK SOLDIER COURSE	0740.08	VALLEY FLASHING	0930.12	LINEAR SLOT DRAIN (PROVIDE 1'-2" WIDER THAN OPEN SIDE OF SHOWER, AND WITH METAL TILE TRANSITIONS AT PERMETER)	3210.33	4" PAVEMENT MARKING (DIAGONAL STRIPING AT 2'-0" O.C. TYPICAL)
0420.07	SLOPED ROWLOCK SILL	0740.09	COMPOSITE FRAMING SUPPORT SYSTEM	0930.13	PRE-FABRICATED SHOWER TRAY BASE	3210.34	ACCESSIBLE PARKING SYMBOL PAVEMENT MARKING
0420.10	4" CONCRETE MASONRY UNITS	0740.18	FIBER REINFORCED CEMENTITIOUS WALL PANEL	0950.01	SUSPENDED ACOUSTICAL LAY-IN TILE CEILING	3210.35	FIRE LANE STRIPING PER CITY REQUIREMENTS
0420.13	8" CONCRETE MASONRY UNITS	0750.01	FIBER REINFORCED CEMENTITIOUS VENTED SOFFIT PANEL	0960.01	FLOORING AS SCHEDULED	3210.37	WHEEL STOP (8'-0" LONG), DRILL AND DOWEL INTO PAVING
0420.14	8" CONCRETE MASONRY UNITS	0750.02	ROOFING BASE FLASHING SYSTEM	0960.13	4" RESILIENT BASE	3210.38	PAVER SETTING SAND
0420.16	8" BURNISHED CONCRETE MASONRY UNITS	0750.03	4" CAIT STRIP	0960.21	3 1/2" FIBERGLASS SOUND ATTENUATION BATT INSULATION	3210.39	SAWCUT CONTROL JOINT
0420.18	12" CONCRETE MASONRY UNITS	0750.07	MODIFIED BITUMEN MEMBRANE ROOFING SYSTEM	0980.02	4" MINERAL WOOL SOUND ATTENUATION BATT INSULATION	3210.40	3/4" DOWEL @ 12" O.C.
0420.23	CONCRETE MASONRY BOND BEAM	0750.08	TWO (2) LAYERS OF 2.2" RIGID ROOF INSULATION (R-5)	1000	DIVISION 10 - SPECIALTIES	3210.41	STEEL REINFORCING (RE: CIVIL)
0470.01	CAST STONE	0750.10	TAPERED ROOF INSULATION	1010.10	FREE-STANDING DISPLAY CASE	3230.10	PIPE (GALVANIZED)
0470.07	CAST STONE SIGNAGE PANEL	0750.13	LIQUID ROOF FLASHING SYSTEM	1010.13	LED BACKLIT SIGNAGE	3230.33	GATE ROLLER
0500	DIVISION 05 - METALS	0750.14	1/2" ROOF COVER BOARD	1010.33	POLE MOUNTED SIGNAGE - "RESERVED PARKING" (ELEVATORS ARE SUBJECT TO FINE AND/OR TOWING)	3230.35	POST CAP
0510.01	STEEL STRUCTURE (RE: STRUCTURAL)	0750.17	HEAT-WELDED LAP FLASHING WITH WEEPS AT 2'-0" O.C. AND MORTAR NET	1010.34	POLE MOUNTED SIGNAGE - "VAN-ACCESSIBLE"	3230.36	THROUGH-HOLE
0510.02	STEEL COLUMN (RE: STRUCTURAL)	0760.01	THROUGH-WALL FLASHING WITH WEEPS AT 2'-0" O.C.	1020.13	CORNER GUARD	3230.38	DECORATIVE METAL FENCE
0510.03	STEEL TUBE COLUMN (RE: STRUCTURAL)	0760.03	PREFINISHED METAL GUTTER	1020.16	STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (36" LONG)	3230.39	DECORATIVE METAL GATE
0510.04	STEEL ANGLE (RE: STRUCTURAL)	0760.04	PREFINISHED METAL DOWNSPOUT	1020.17	STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (42" LONG)	3230.43	SLIDING GATE OPERATOR AND CONCRETE PAD
0510.05	STEEL CHANNEL (RE: STRUCTURAL)	0760.05	PREFINISHED METAL DOWNSPOUT WITH FABRICATED TRANSITION TO DOWNSPOUT BOOT	1020.20	SOAP DISPENSER (SURFACE-MOUNTED)	3230.61	STEEL TROWEL FINISH
0510.06	STEEL LINTEL (RE: STRUCTURAL)	0760.10	GALVANIZED STRAP	1020.23	STAINLESS STEEL SEMI-RECESSED TOILET PAPER DISPENSER	3230.62	LIGHT BROOM FINISH
0510.07	STEEL TUBE (RE: STRUCTURAL)	0760.35	METAL PIPE JACK FLASHING	1020.30	STAINLESS STEEL SEMI-RECESSED PAPER TOWEL DISPENSER / TRASH RECEPTACLE	3230.63	MANUAL SLIDING GATE
0510.08	STEEL BENT PLATE (RE: STRUCTURAL)	0760.36	2" VERTICAL COLD-FORMED METAL FURRING CHANNELS AT 16" O.C., HORIZONTALLY	1020.32	STAINLESS STEEL FRAMED MIRROR	3230.64	FIBERGLASS PRIVACY FENCE
0510.10	STEEL BEAM (RE: STRUCTURAL)	0760.37	CONTINUOUS STEEL STRAP ATTACHED TO EACH STUD	1020.34	VINYL-COATED PIPING WRAP	3230.65	ORNAMENTAL FIBERGLASS FENCE
0530.01	METAL FLOOR DECK (RE: STRUCTURAL)	0760.40	TERMINATION BAR AND PREFINISHED FLASHING CAP	1020.35	ROBE / TOWEL HOOK	3260.01	LANDSCAPE BED
0530.02	METAL ROOF DECK (RE: STRUCTURAL)	0760.43	COATED METAL DRIP EDGE FASCIA SYSTEM	1040.03	STAINLESS STEEL SHOWER CURTAIN ROD WITH VINYL CURTAIN AND HOOKS	3260.03	METAL EDGING
0540.01	COLD-FORMED METAL FRAMING	0770.01	PREFINISHED ROOF CURB	1040.06	FIRE EXTINGUISHER AND SEMI-RECESSED CABINET	3260.10	RIVER ROCK
0540.02	6" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM	0770.02	PIPE BOOT	1050.06	TURNOUT GEAR LOCKERS	3260.20	VITEX
0540.06	2" COLD-FORMED METAL FURRING CHANNEL	0770.04	PREFINISHED METAL REGLET WITH SEALANT AND COUNTERFLASHING	1100	DIVISION 11 - EQUIPMENT	3260.21	LANDSCAPE BOULDER
0540.07	2" VERTICAL COLD-FORMED METAL FURRING CHANNELS AT 16" O.C., HORIZONTALLY	0770.08	EQUIPMENT CURBS WITH GALVANIZED COUNTERFLASHING	1130.06	WASHER EXTRACTOR	3260.22	EXISTING TREE
0540.08	SILL GASKET	0770.12	24 GAUGE HOODED PAN, FILL WITH 1" POURABLE SEALANT OVER ROOFING GRANULES	1130.07	TURNOUT GEAR DRYING CABINET	3260.23	PREPARED SOIL MIX
0540.12	COLD-FORMED METAL HEADER	0770.13	24 GAUGE GALVANIZED CAP, MITER, RIVET AND SOLDER ENDS WATERTIGHT, ANCHOR 12" O.C., (ONE MIN. PER SIDE)	1130.08	MICROWAVE	3300	DIVISION 11 - UTILITIES (RE: CIVIL & MEP)
0540.17	2 1/2" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM	0770.16	4 LB. LEAD FLASHING, SET IN PLASTIC CEMENT AND EXTEND 2'-0" FROM DRAIN	1130.09	REFRIGERATOR	3310.01	FIRE HYDRANT (RE: CIVIL / PLUMBING)
0540.18	3 5/8" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM	0770.21	PREFABRICATED PIPE PORTAL SYSTEM WITH METAL COLLAR	1130.11	DISHWASHER	3330.01	GREASE INTERCEPTOR
0540.22	J-TRACK	0770.22	STAINLESS STEEL CLAMP	1130.12	WASHING MACHINE	3340.10	CONCRETE CATCH BASIN (RE: CIVIL)
0550.12	STEEL BASE PLATE	0770.22	PIPE UMBRELLA WITH SEALANT	1130.13	CLOTHES DRYER	3340.12	PERFORATED PIPE SUBSURFACE DRAINAGE SYSTEM
0550.19	6" STEEL PIPE BOLLARD, FILL WITH CONCRETE (GALVANIZED AT EXTERIOR LOCATIONS)	0770.22	SEALANT WITH BACKER ROD AS REQUIRED	1130.17	GAS RANGE	3340.13	FREE-DRAINING AGGREGATE
0550.26	METAL PAN STAIR, FILL WITH CONCRETE	0770.22	CAULKING	1130.17	FOOD DISPOSAL	3340.14	FILTER FABRIC
0550.30	1/4" STEEL PLATE	0770.22	SET IN BED OF SEALANT	1130.17	UNDER-COUNTER ICE MAKER	3370.04	STORM WATER MANHOLE AND COVER (RE: CIVIL)
0550.31	STEEL PLATE STRINGER	0770.22	DIVISION 08 - OPENINGS	1230.28	QUARTZ SURFACE COUNTERTOP WITH SPLASH AS SHOWN	3370.08	TRANSFORMER (BY POWER COMPANY) WITH CONCRETE PAD PER POWER COMPANY REQUIREMENTS
0550.32	STEEL TREAD	0800	INTERIOR ALUMINUM FRAME SYSTEM	1230.28	QUARTZ WINDOW SILL	3370.09	BARE COPPER GROUND
0550.33	METAL LADDER	0810.01	HOLLOW METAL FRAME	1300	DIVISION 13 - SPECIAL CONSTRUCTION	3400	COPPER GROUND ROD (8'-0" LONG)
0550.34	METAL SHIPS LADDER	0810.04	HOLLOW METAL DOOR AND FRAME	1400	DIVISION 14 - CONVEYING EQUIPMENT	<various>	DIVISION 34 - TRANSPORTATION
0550.35	1/2" X 1/2" STEEL VERTICAL PICKET	0810.05	JAMB ANCHOR (PER JAMB)	1420.02	STAINLESS STEEL ELEVATOR ENTRANCE DOOR SILL		
0550.39	1 1/4" DIAMETER STANDARD STEEL PIPE HANDRAIL	0810.08	HOLLOW METAL DOOR	1420.03	ELEVATOR CALL BUTTONS		
0550.40	1 1/4" DIAMETER STANDARD STEEL PIPE HANDRAIL WITH 3/8" PLATE STEEL BRACKETS AT 5'-0" O.C. MAX	0810.08	SOLID CORE WOOD DOOR	1420.06	MINERATE ELEVATOR CAB WALL PANELS		
0550.41	1 1/4" STANDARD STEEL PIPE GUARDRAIL	0830.05	ELECTRIC OPERATED FOUR-FOLD DOOR	1420.10	ELEVATOR CAB FLAT HANDRAIL		
0550.45	METAL GRATING	0830.14	OVERHEAD COILING DOOR	2100	DIVISION 21 - FIRE SUPPRESSION (RE: PLUMBING)		
0550.63	2" HORIZONTAL Z-CHANNEL @ 16" O.C.	0830.17	UPWARD ACTING SECTIONAL DOOR	2200	DIVISION 22 - PLUMBING (RE: PLUMBING)		
0550.66	2" X 1 1/4" X 11 GAUGE STEEL TUBE	0830.26	SOUND CONTROL DOOR ASSEMBLY	2210.01	PLUMBING VENT		
0550.76		0840.01	ALUMINUM STOREFRONT DOOR	2210.02	PIPE SLEEVE AND SEAL		
0570.07	POLISHED BRASS SLIDING POLE WITH FOAM LANDING MAT, CAGE	0840.02	ALUMINUM SILL WITH HEMMED AND CLOSED ENDS	2210.06	FLOOR DRAIN		
0600	DIVISION 06 - WOOD, PLASTICS, & COMPOSITES	0840.03	CONTINUOUS ALUMINUM SILL PAN FLASHING WITH BACK AND END DAMS	2210.09	OE. AND SAND SEPARATOR		
0610.01	SHIM AS REQUIRED	0840.05	ALUMINUM-CLAD WOOD WINDOW	2210.10	GREASE INTERCEPTOR		
0610.02	1X WOOD BLOCKING	0850.03	METAL THRESHOLD, SET IN BED OF SEALANT	2210.12	SUMP PUMP		
0610.03	2X WOOD BLOCKING	0870.01	DOOR BOTTOM WITH DRIP SKIRT	2210.13	ROOF DRAIN		
0610.04	2X PRESSURE TREATED WOOD BLOCKING	0870.10	DRIP CAP	2210.15	OVERFLOW ROOF DRAIN		
0610.05	1/2" EXTERIOR GRADE PLYWOOD	0870.11	GLASS TYPE MG#1A (MONOLITHIC CLEAR, ANNEALED)	2210.17	AR COMPRESSOR/TANK		
0610.07	3/4" EXTERIOR GRADE PLYWOOD	0880.01	GLASS TYPE MG#1B (MONOLITHIC CLEAR, HEAT STRENGTHENED)	2210.24	ROOF DRAIN CLAMPING RING		
0610.09	2 X 4 WOOD STUDS AT 16" O.C.	0880.02	GLASS TYPE MG#1C (MONOLITHIC CLEAR, FULLY TEMPERED)	2240.01	WATER CLOSET, ORIENT FLUSH VALVE TOWARDS ACCESSIBLE SPACE AT ACCESSIBLE STALLS / RESTROOMS		
0610.36	INSULATED ROOF NAIL BASE PANEL	0880.03	GLASS TYPE MG#4 (MONOLITHIC TINTED)	2240.03	WALL-HUNG LAVATORY WITH CARRIER		
0640.03	PLASTIC LAMINATE CLAD BASE CABINETS WITH ADJUSTABLE SHELVES	0880.04	GLASS TYPE KGF11a (STORM IMPACT, INSULATED LAMINATED, LOW-E)	2240.04	PORCELAIN LAVATORY		
0640.04	PLASTIC LAMINATE CLAD WALL CABINETS WITH ADJUSTABLE SHELVES	0880.48	TRANSLUCENT WINDOW FILM	2240.05	STAINLESS STEEL UNDERMOUNT SINK		
0640.07	3/4" PLYWOOD	0890.01	PREFINISHED FKED ALUMINUM LOUVER (WITH BRD SCREEN)	2240.19	WATER FOUNTAIN		
0640.15	CABINET CAM LOCK	0900	DIVISION 09 - FINISHES	2240.25	BOTTLE FILLER		
0640.17	DRAWER GLIDE	0920.01	1 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.	2300	TRUCK FILL		
0640.18	ADJUSTABLE SHELVING	0920.02	2 1/2" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.	2310.01	DIVISION 23 - HEATING, VENTILATING, & AIR-CONDITIONING (HVAC) (RE: MECHANICAL)		
0640.21	WIRE GROMMET	0920.03	3 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 8" O.C.	2320.03	GAS PIPING (PAINT WHERE EXPOSED)		
0640.22	CABINET PULLS			2350.01	REFRIGERANT PIPING		
0640.24	ADJUSTABLE METAL SHELF STANDARDS, PROVIDE BLOCKING IN WALL AS REQUIRED			2360.02	METAL FLUE WITH BASE AND COLLAR		
0640.30	1/4" CLEAR TEMPERED GLASS SHELVES				HVAC CONDENSING UNIT		
0640.31	1/4" CLEAR TEMPERED GLASS BYPASS SLIDING DOORS AND ALUMINUM TRACK						
0640.37	PLASTIC LAMINATE CLAD FIXED SHELF						
0640.38	1/2" PLASTIC LAMINATE CLAD PLYWOOD						
0640.39	3/4" PLASTIC LAMINATE CLAD PLYWOOD DRAWER WITH 1/4" HARDWOOD BOTTOM						
0640.40	PLASTIC LAMINATE CLAD DESK						
0640.42	PLASTIC LAMINATE CLAD WARDROBE						
0640.44	3/4" PLASTIC LAMINATE CLAD PLYWOOD REMOVABLE ACCESS PANEL						
0640.45	1/4" HARDWOOD CABINET BACK						
0640.46	3/4" PLASTIC LAMINATE CLAD PLYWOOD CABINET DOOR						
0640.48	HEAVY DUTY COAT ROD						
0640.49	COAT OR BACKPACK HOOK						

MASTERFORMAT 2020

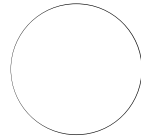
THE MASTER KEYNOTE LIST USES CSI MASTERFORMAT 2020 EDITION LEVEL 2 NUMBERS AND TITLES			
EXAMPLE KEYNOTE 0360.01	DIVISION 03	LEVEL 2 60	UNIQUE IDENTIFIER .01
NOTE: WHERE KEYNOTES REFERENCE OTHER DISCIPLINES, SUCH AS RE: STRUCTURAL, RE: CIVIL, RE: MEP, REFER TO ENGINEERING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DETAILS AND INFORMATION. ITEMS SO NOTED ARE TO BE INCLUDED IN THE CONTRACT WHETHER OR NOT ENGINEERING DRAWINGS AND SPECIFICATIONS CONTAIN ADDITIONAL INFORMATION OR REQUIREMENTS FOR EACH SPECIFIC ITEM KEYNOTED. IF DISCREPANCY OR APPARENT LACK OF COORDINATING INFORMATION IN ENGINEERING DRAWINGS OR SPECIFICATIONS IS FOUND, CONTRACTOR SHALL REQUEST ADDITIONAL INFORMATION FROM ARCHITECT IN ADVANCE TO AVOID COST OR TIME IMPACT.			

DIVISION 01	GENERAL REQUIREMENTS
DIVISION 02	EXISTING CONDITIONS (TO REMAIN, U.N.O.) & DEMOLITION
DIVISION 03	CONCRETE
DIVISION 04	MASONRY
DIVISION 05	METALS
DIVISION 06	WOOD, PLASTICS, & COMPOSITES
DIVISION 07	THERMAL & MOISTURE PROTECTION
DIVISION 08	OPENINGS
DIVISION 09	FINISHES
DIVISION 10	SPECIALTIES
DIVISION 11	EQUIPMENT
DIVISION 12	FURNISHINGS
DIVISION 13	SPECIAL CONSTRUCTION
DIVISION 14	CONVEYING EQUIPMENT
DIVISION 21	FIRE SUPPRESSION (RE: PLUMBING)
DIVISION 22	PLUMBING (RE: PLUMBING)
DIVISION 23	HEATING, VENTILATING, & AIR-CONDITIONING (HVAC) (RE: MECHANICAL)
DIVISION 26	ELECTRICAL (RE: ELECTRICAL)
DIVISION 27	COMMUNICATIONS
DIVISION 28	ELECTRONIC SAFETY & SECURITY
DIVISION 31	EARTHWORK
DIVISION 32	EXTERIOR IMPROVEMENTS
DIVISION 33	UTILITIES (RE: CIVIL & MEP)



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**KINGSVILLE
FIRE STATION NO. 3**

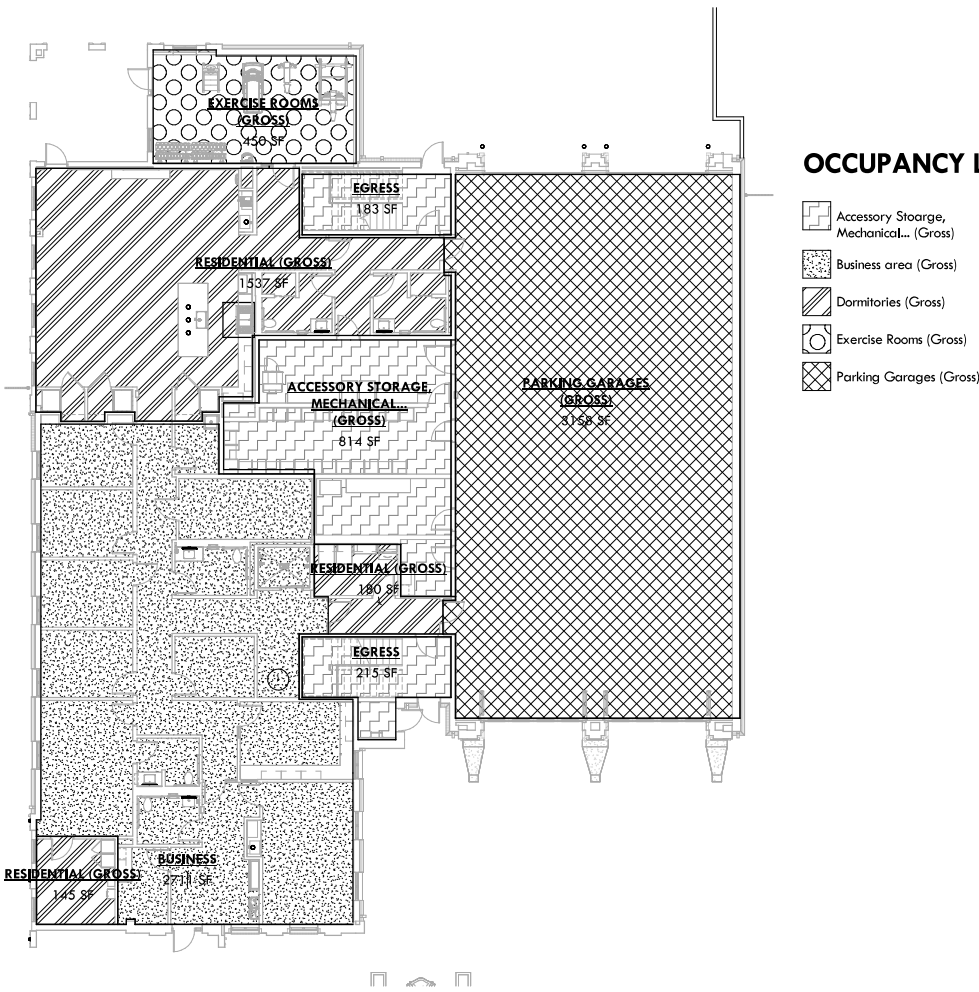


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MASTER KEYNOTE LIST



OCCUPANCY LEGEND

- Accessory Storage, Mechanical... (Gross)
- Business area (Gross)
- Dormitories (Gross)
- Exercise Rooms (Gross)
- Parking Garages (Gross)

APPLICABLE BUILDING CODES

BUILDING CODES AND STANDARDS

BUILDING: 2018 INTERNATIONAL BUILDING CODE
MECHANICAL: 2018 INTERNATIONAL MECHANICAL CODE
PLUMBING: 2018 INTERNATIONAL PLUMBING CODE
ELECTRICAL: 2017 NATIONAL ELECTRIC CODE
FIRE: 2018 INTERNATIONAL FIRE CODE
LIFE SAFETY: 2018 INTERNATIONAL BUILDING CODE
ENERGY: 2018 INTERNATIONAL ENERGY CONSERVATION CODE

ACCESSIBILITY STANDARDS

2012 TEXAS ACCESSIBILITY STANDARDS (TAS)

SCOPE OF WORK

SCOPE OF WORK: NEW CONSTRUCTION
NUMBER OF FLOORS: 2
ALLOWED NUMBER OF FLOORS: 4
CONSTRUCTION TYPE: TYPE I-B
OCCUPANCY CLASSIFICATION: B, R-2, AND S-2
SPRINKLERED: NFPA 13

FAR:
SITE COVERAGE:

TBD

OCCUPANCY CLASSIFICATION

IBC CHAPTER 3 NFPA CHAPTER 3
2018 IBC 2018 NFPA - NFPA - MIXED OCCUPANCE

BUSINESS: GROUP B OCCUPANCY (304.1) BUSINESS OCCUPANCY (6.1.1.1)
RESIDENTIAL: GROUP R-2 OCCUPANCY (310.4) RESIDENTIAL OCCUPANCY (6.1.1.8)
STORAGE: GROUP S-2 OCCUPANCY (311.3) STORAGE OCCUPANCY (6.1.1.1)

BUILDING HEIGHTS AND AREAS

IBC CHAPTER 5

CONSTRUCTION TYPE:
NEW CONSTRUCTION TYPE II-B

ALLOWABLE BUILDING HEIGHT & STORIES TABLES 503.4 & 504.4

OCCUPANCY	HEIGHT (FT)	STORIES
B	75	4
S-2	60	5
R-2	75	4

EXISTING HEIGHT & STORIES < 20 FEET & 1 STORY = COMPLIANT

BUILDING HEIGHTS	HEIGHT (FT)	STORIES
NEW:	43' - 4"	2

ALLOWABLE AREA PER TABLE 506.2

OCCUPANCY	ALLOWABLE AREA FACTOR (AF)
B	69,000
S-2	78,000
R-2	48,000

AUTOMATIC SPRINKLER SYSTEM PROVIDED
FRONTAGE INCREASE: 0.75

ALLOWABLE AREA PER STORY BASED ON MOST RESTRICTIVE

Aa = A1 + (NS x B) = AREA GSF
Aa = (A1 + (NS x B)) x Sa = AREA GSF
GROUP R-2 Aa = 48,000 + (16,000 x 0.75) = 60,000 GSF

BUILDING AREAS

FIRST FLOOR: 9,393 GSF
SECOND FLOOR: 3,992 GSF
TOTAL: 13,385 GSF

MIXED USE AND OCCUPANCY

IBC CHAPTER 5

NONSEPARATED OCCUPANCIES PER 508.3
ALLOWABLE AREA CALCULATION BASED ON MOST RESTRICTIVE
RESIDENTIAL R-2a = 48,000 SF

TYPES OF CONSTRUCTION

IBC CHAPTER 6

FIRE-RESISTANCE RATING REQUIREMENTS

TYPE IIB	HOURS
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS	0
EXTERIOR	0
INTERIOR	0
NON-BEARING WALLS	0
INTERIOR	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

INTERIOR FINISHES

IBC CHAPTER 8

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY / SPRINKLERED PER TABLE 803.11:

SPRINKLERED	CLASS
INTERIOR EXIT STAIRWAYS, RAMP AND EXIT PASSAGEWAYS	
GROUP	B
S	C
R-2	C
S-2	C

CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS

GROUP	CLASS
B	C
R-2	C
S-2	C

ROOMS AND ENCLOSED SPACES

GROUP	CLASS
B	C
R-2	C
S-2	C

FIRE PROTECTION SYSTEMS

IBC CHAPTER 9

REFERENCE MEP DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FIRE PROTECTION SYSTEMS

AUTOMATIC SPRINKLER SYSTEM
FULLY SPRINKLERED

PORTABLE FIRE EXTINGUISHERS

REQUIRED AT GROUP B, R-2, AND S-2 OCCUPANCIES
REQUIRED WITHIN 30 FEET DISTANCE OF TRAVEL FROM COMMERCIAL COOKING EQUIPMENT

SIZE AND DISTRIBUTION FOR CLASS A FIRE HAZARDS

MAXIMUM TRAVEL DISTANCE:	75 FEET
AREA PER UNIT OF A:	3,000 SF
AREA FOR EXTINGUISHER:	11,250 SF

SECTION 903.2.2: AN AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT THE ENTIRE FLOOR CONTAINING AN AMBULATORY CARE FACILITY WHERE EITHER OF THE FOLLOWING CONDITIONS EXIST AT ANY TIME:

SECTION 903.3.7: FIRE DEPARTMENT CONNECTIONS (FDC) SHALL BE INSTALLED PER SECTION 912.
912.2: APPROVED BY THE FIRE CODE OFFICIAL
912.2.2: STREETSIDE AND VISIBLE
913.2.1 FIRE PUMP ROOMS SEPARATED BY 1 HR FIRE BARRIERS

SECTION 903.4: SPRINKLER SUPERVISION AND ALARMS

903.1 MONITORING: ALARM, SUPERVISORY AND TROUBLE AUTOMATICALLY TRANSMITTED TO AN APPROVED SUPERVISING STATION OR, WHERE APPROVED BY THE FIRE CODE OFFICIAL, SHALL SOUND AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION.

903.2: ALARMS: ONE EXTERIOR APPROVED AUDIBLE DEVICE, LOCATED ON THE EXTERIOR OF THE BUILDING IN AN APPROVED LOCATION, SHALL BE CONNECTED TO EACH AUTOMATIC SPRINKLER SYSTEM. SUCH SPRINKLER WATER FLOW ALARM DEVICES SHALL BE ACTIVATED BY WATER FLOW EQUIVALENT TO THE FLOW OF A SINGLE SPRINKLER OF THE SMALLEST ORIFICE SIZE INSTALLED IN THE SYSTEM, WHERE A FIRE ALARM SYSTEM IS INSTALLED. ACTIVATION OF THE AUTOMATIC SPRINKLER SYSTEM SHALL ACTUATE THE BUILDING FIRE SYSTEM.

SECTION 906: PORTABLE FIRE EXTINGUISHERS.
906.1 REQUIRED AT GROUP A, B & S OCCUPANCIES

906.3 SIZE AND DISTRIBUTION: FOR CLASS A FIRE HAZARDS
MAXIMUM TRAVEL DISTANCE = 75 FT, MAX. DISTANCE
MAXIMUM FLOOR AREA PER UNIT OF A = 3,000 SF

906.5 CONSPICUOUS LOCATION: READILY ACCESSIBLE AND IMMEDIATELY AVAILABLE

SECTION 907: FIRE ALARM AND DETECTION SYSTEMS:

907.2.2.1 AMBULATORY CARE FACILITIES: BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM DO NOT REQUIRE AUTOMATIC SMOKE DETECTION SYSTEM.
907.2.3 GROUP E, A MANUAL FIRE ALARM SYSTEM THAT INITIATES THE OCCUPANT NOTIFICATION SIGNAL UTILIZING AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM MEETING THE REQUIREMENTS OF SECTION 907.5.2.2 AND INSTALLED IN ACCORDANCE WITH SECTION 907.5 SHALL BE INSTALLED IN GROUP E OCCUPANCIES, WHERE AUTOMATIC SPRINKLER SYSTEMS OR SMOKE DETECTORS ARE INSTALLED. SUCH SYSTEMS OR DETECTORS SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM.

MEANS OF EGRESS

IBC CHAPTER 10

OCCUPANT LOAD
REFERENCE OCCUPANT LOAD ANALYSIS PLANS AND OCCUPANT LOAD SCHEDULE

BUILDING AREA	OCCUPANTS
FIRST FLOOR	87
SECOND FLOOR	66
TOTAL	153

OCCUPANCY LOAD MIXED OCCUPANCY - SEE OCCUPANCY PLAN

MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE (CPET) PER TABLE 1006.2.1
REFERENCE LIFE SAFETY PLANS

OCCUPANCY	WITH SPRINKLER SYSTEM (FT)
B	100
R-2	125
S-2	100

COMMON PATH OF EGRESS TRAVEL - FT (WORST CASE)
SEE LIFE SAFETY PLAN

MAXIMUM EXIT ACCESS TRAVEL DISTANCE PER IBC 1017.2
REFERENCE LIFE SAFETY PLANS

OCCUPANCY	WITH SPRINKLER SYSTEM (FT)
B	300
R-2	250
S-2	400

ACCESSIBILITY

REFERENCE A5.9 FOR TYPICAL ACCESSIBILITY REQUIREMENTS

BUILDING ENVELOPE REQUIREMENTS

IECC SECTION C402

CLIMATE ZONE 2A

IECC SECTION C402

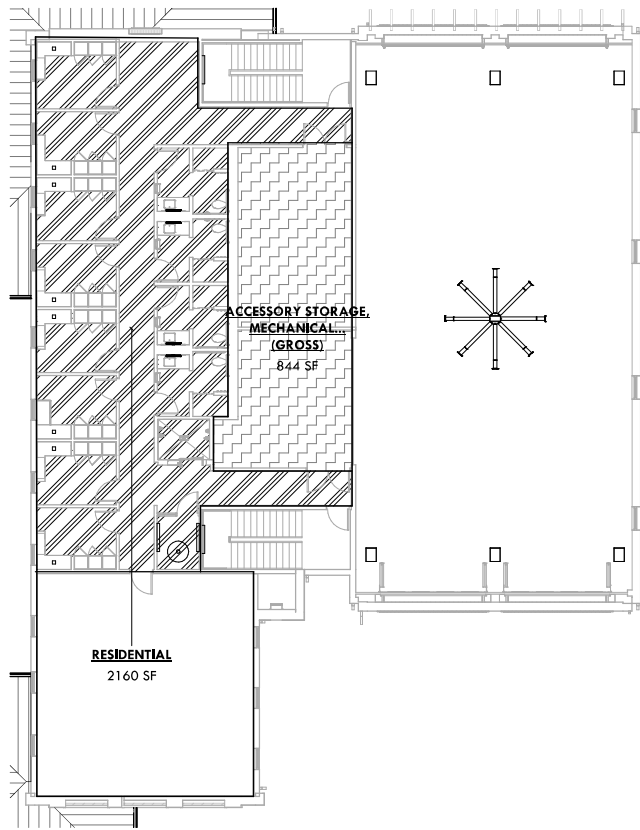
THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS, R-VALUE METHOD

TYPICAL WALL INSULATION:	R-13 + R7.5ci
TYPICAL ROOF INSULATION:	R-25ci
TYPICAL FENESTRATION:	
U-FACTOR:	0.50
SHGC:	0.25
SHADING COEFFICIENT:	PF < 0.2
VISIBLE TRANSMITTANCE:	TBD



1 FIRST FLOOR CODE ANALYSIS PLAN

3/32" = 1'-0"



OCCUPANCY LEGEND

- Accessory Storage, Mechanical... (Gross)
- Dormitories (Gross)



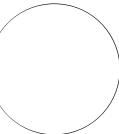
2 SECOND FLOOR CODE ANALYSIS PLAN

3/32" = 1'-0"

OCCUPANCY SCHEDULE 2018 IBC (AREA)				
NAME	AREA	FUNCTION OF SPACE	OCCUPANT LOAD FACTOR	OCCUPANT
FIRST FLOOR				
ACCESSORY STORAGE, MECHANICAL... (GROSS)	814 SF	Accessory Storage, Mechanical... (Gross)	300 SF	3
BUSINESS	2711 SF	Business area (Gross)	150 SF	19
EGRESS	398 SF	Accessory Storage, Mechanical... (Gross)	300 SF	2
EXERCISE ROOMS (GROSS)	450 SF	Exercise Rooms (Gross)	50 SF	9
PARKING GARAGES (GROSS)	3156 SF	Parking Garages (Gross)	200 SF	16
RESIDENTIAL (GROSS)	1862 SF	Dormitories (Gross)	50 SF	38
SECOND F.F.				
ACCESSORY STORAGE, MECHANICAL... (GROSS)	844 SF	Accessory Storage, Mechanical... (Gross)	300 SF	3
RESIDENTIAL	2160 SF	Dormitories (Gross)	50 SF	44
GRAND TOTAL	12398 SF			134



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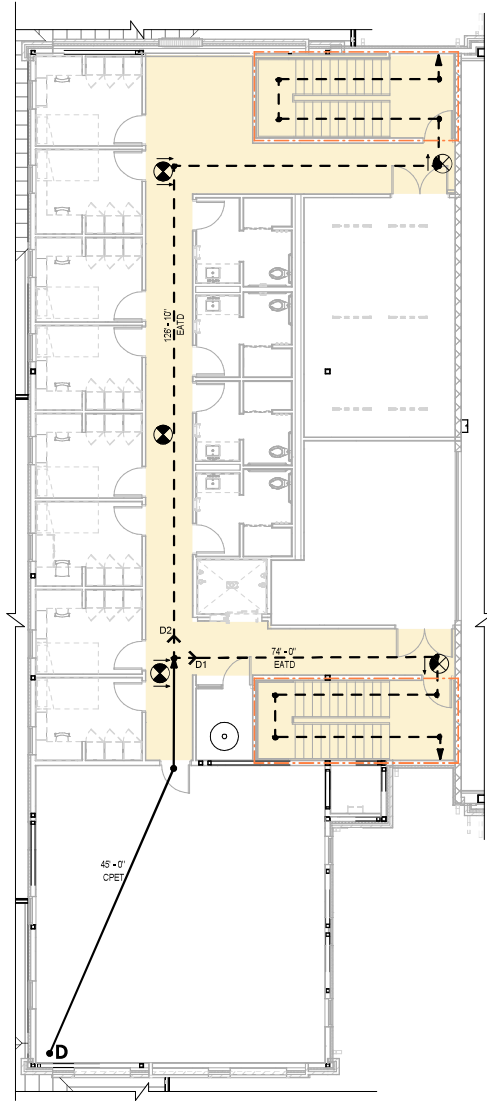
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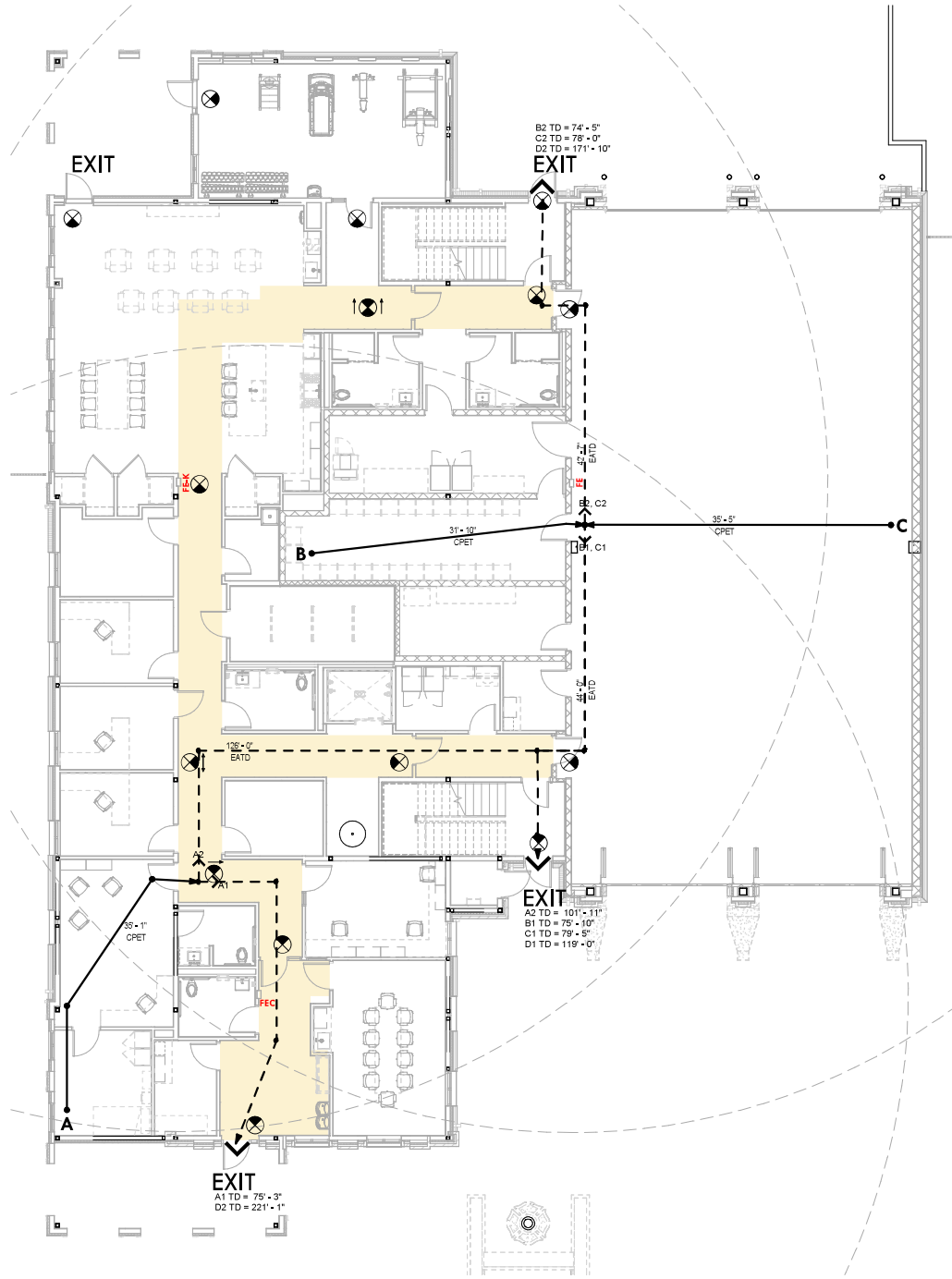
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2 SECOND FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

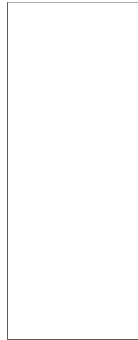
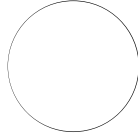


1 FIRST FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

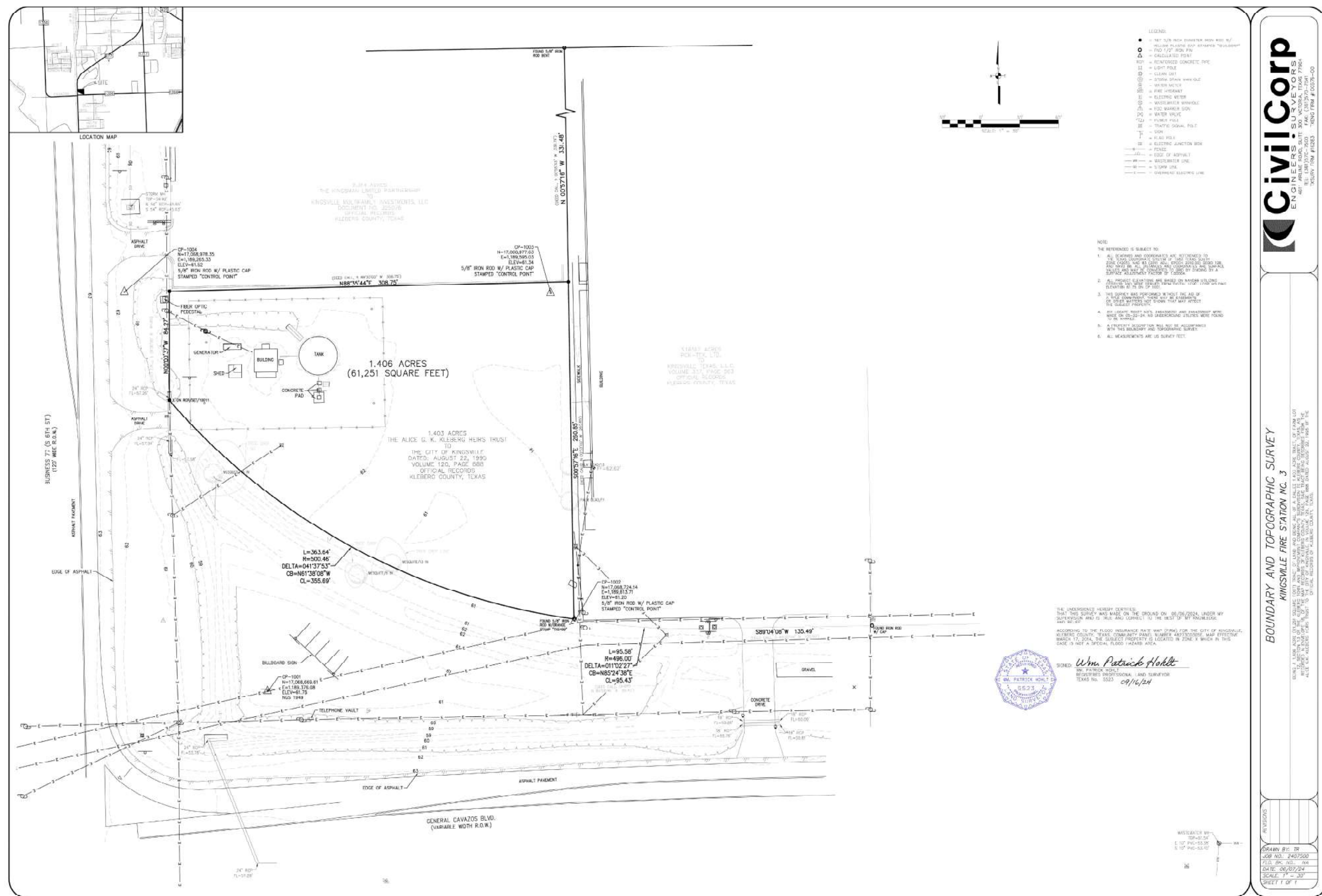
MEANS OF EGRESS WIDTH (DOORS)			
DOOR NO.	OCC. LOAD	REQUIRED WIDTH	EGRESS WIDTH
FIRST FLOOR			
101	0	32	34
123	0	32	34

LIFE SAFETY LEGEND

PATTERN	DESCRIPTION
	STORM SHELTER BOUNDARY
	COMMON PATH OF TRAVEL (CPET)
	EXIT ACCESS TRAVEL DISTANCE (EATD)
	EXIT LIGHTS PATH OF EGRESS
	SEMI-RECESSED FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER, ABC 10 U.N.O.
	FIRE EXTINGUISHER AND WALL BRACKET CLASS ABC, U.N.O.
	FIRE EXTINGUISHER AND WALL BRACKET CLASS K
	FIRE HOSE CABINET
	FIRE DEPARTMENT CONNECTION
	FIRE ALARM CONTROL PANEL
	KNOX BOX
	PATH OF EGRESS



NO.	REVISION	DATE



BOUNDARY AND TOPOGRAPHIC SURVEY
KINGSVILLE FIRE STATION NO. 3

BOUNDARY AND TOPOGRAPHIC SURVEY
KINGSVILLE FIRE STATION NO. 3

DRAWN BY: TR
JOB NO.: 2407500
FLD. BK. NO.: NA
DATE: 06/07/24
SCALE: 1" = 30'
SHEET 1 OF 1

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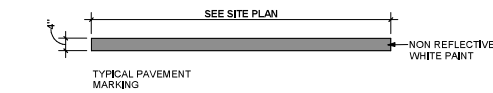
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BOUNDARY AND
TOPOGRAPHIC SURVEY

ADD DATE



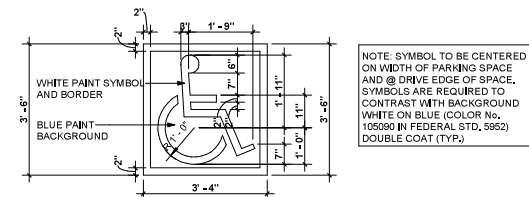
2 PARKING STRIPE

1/2" = 1'-0"



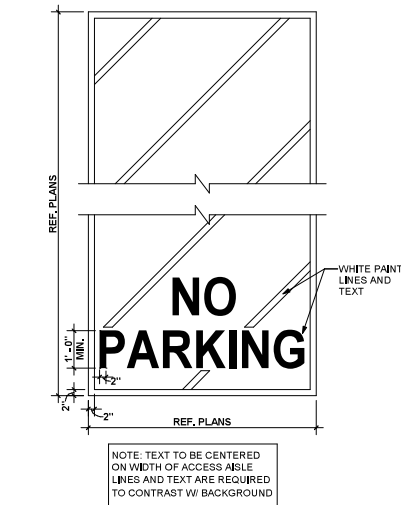
3 FIRE LANE DETAIL

1/2" = 1'-0"



4 HC PAVEMENT MARKING SYMBOL

1/2" = 1'-0"



5 H.C. ACCESS AISLE MARKING

1/2" = 1'-0"

S 6TH ST.

E GENERAL CAVAZOS BLVD

1 ARCHITECTURAL SITE PLAN

1/16" = 1'-0"

KEYNOTES

- 0220.03 EXISTING POWER POLE
- 0220.26 EXISTING FENCE
- 0240.12 REMOVE EXISTING FENCE
- 0550.19 6" STEEL PIPE BOLLARD, FILL WITH CONCRETE (GALVANIZED AT EXTERIOR LOCATIONS)
- 0760.04 PREFINISHED METAL DOWNSPOUT
- 1010.34 POLE MOUNTED SIGNAGE - VANACCESSIBLE
- 1070.03 GROUND-SET FLAGPOLE
- 2210.09 OIL AND SAND SEPARATOR
- 2210.10 GREASE INTERCEPTOR
- 2360.02 HVAC CONDENSING UNIT
- 2630.07 LOAD BANK
- 2650.17 LIGHT POLE AND FIXTURE ON CONCRETE BASE
- 2650.22 FLAGPOLE LIGHT
- 2810.05 PARKING ACCESS CONTROL ON METAL STANCHION AND CONCRETE FOOTING
- 3210.33 4" PAVEMENT MARKING (DIAGONAL STRIPING AT 2'-0" O.C. TYPICAL)
- 3210.34 ACCESSIBLE PARKING SYMBOL PAVEMENT MARKING
- 3210.35 FIRE LANE STRIPING PER CITY REQUIREMENTS
- 3230.38 DECORATIVE METAL FENCE
- 3230.63 MANUAL SLIDING GATE
- 3230.64 FIBERGLASS PRIVACY FENCE
- 3230.65 ORNAMENTAL FIBERGLASS FENCE
- 3310.01 FIRE HYDRANT (RE: CIVIL / PLUMBING)
- 3340.05 CONCRETE CATCH BASIN (RE: CIVIL)
- 3340.14 STORM WATER MANHOLE AND COVER (RE: CIVIL)
- 3370.04 TRANSFORMER (BY POWER COMPANY) WITH CONCRETE PAD PER POWER COMPANY REQUIREMENTS

SITE LEGEND

PATTERN	DESCRIPTION
---	PROPERTY LINE
---	ZONING SETBACK
---	FIRE LANE STRIPING
---	ORNAMENTAL METAL FENCING
---	FENCE TO BE REMOVED
---	FENCE EXISTING TO REMAIN
---	BUILDING
---	NEW CONSTRUCTION
---	PAVING (RE: CIVIL)
---	CONCRETE PAVING
---	CONCRETE SIDEWALK

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DATE: APRIL 24, 2024
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CHECKED BY: JD, RH, MW
BRW PROJECT NUMBER: 223136.00

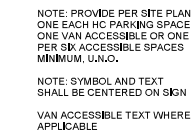
KINGSVILLE FIRE STATION NO. 3
2602 S 6TH ST.
KINGSVILLE, TX 78363

NO.	REVISION	DATE

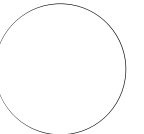
AS1.1
ARCHITECTURAL SITE PLAN

ADD DATE

ISSUE FOR BID



- | | |
|---------|--|
| 0310.02 | 3/4" CHAMFER |
| 0310.09 | SAW/CUT CONTROL JOINT |
| 0320.01 | DOWEL INTO CONCRETE SLAB |
| 0320.03 | DOWEL SLEEVE AND END CAP |
| 0330.01 | CONCRETE |
| 0330.12 | CONCRETE BOLLARD |
| 0330.18 | CONCRETE LIGHT POLE BASE (RE-STRUCTURAL) |
| 0420.03 | 4" FACE BRICK |
| 0470.01 | CAST STONE |
| 0550.19 | 6" STEEL PIPE BOLLARD, FILL WITH CONCRETE (GALVANIZED AT EXTERIOR LOCATIONS) |
| 0790.01 | SEALANT WITH BACKER ROD AS REQUIRED |
| 1010.33 | PAVING VIOLATORS ARE SUBJECT TO FINE AND/OR TOWING* |
| 1010.34 | POLE MOUNTED SIGNAGE - "VAN+ACCESSIBLE" |
| 2620.01 | CONDUIT |
| 2650.17 | CONDUIT BOLT AND FITTURE ON CONCRETE BASE |
| 3120.01 | GRADE |
| 3120.03 | COMPACTED SUBGRADE |
| 3120.03 | BASE STABILIZED BASE COURSE |
| 3210.09 | CONCRETE SIDEWALK (RE. CIVIL) |
| 3210.14 | CONCRETE PAVING (RE. CIVIL) |
| 3210.22 | PAVING EXPANSION JOINT - FILL WITH JOINT SEALER (RE. CIVIL SURFACE) |
| 3210.24 | PRE-CAST CONCRETE PAVING UNITS WITH TRUNCATED DOWNS (ADA COMPLIANT) |
| 3210.30 | 6" CONCRETE CURB WITH GUTTER AS REQUIRED (RE. CIVIL) |
| 3210.38 | PAVER SETTING SAND |
| 3210.39 | SAW/CUT CONTROL JOINT |
| 3210.40 | 1/4" DOWEL (RE. CIVIL) |
| 3210.41 | STEEL REINFORCING (RE. CIVIL) |
| 3210.42 | 2 1/2" MIN. (MINIMUM) SCHEDULE 40 STEEL PIPE (GALVANIZED) |
| 3230.35 | POST CAP |
| 3230.43 | SLIDING GATE OPERATOR AND CONCRETE PAD |
| 3230.54 | MOTORIZED GATE MANUAL RELEASE |
| 3230.61 | STEEL TROWEL FINISH |
| 3230.62 | LIGHT BROOM FINISH |
| 3230.65 | ORNAMENTAL FIBERGLASS FENCE |
| 3330.01 | GRASS INTERCEPTOR |
| 3770.03 | BASE COPPER GROUND |
| 3770.09 | COPPER GROUND ROD (8'-0" LONG) |



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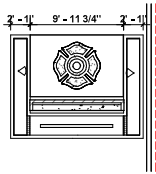
AS1.2

ARCHITECTURAL SITE DETAILS

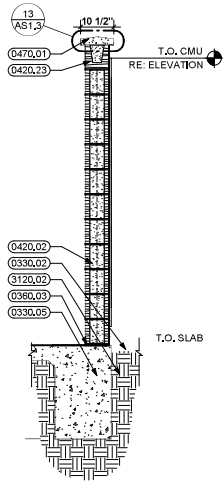
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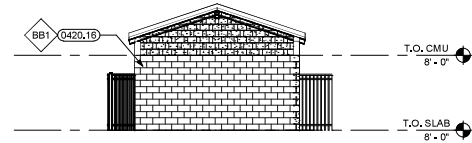
9 ENLARGED SITE PLAN
1/8" = 1'-0"



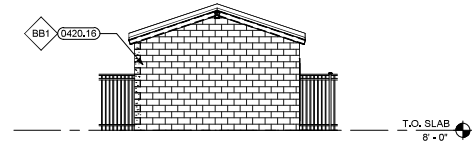
14 ENLARGED PLAN-MONUMENT
1/8" = 1'-0"



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



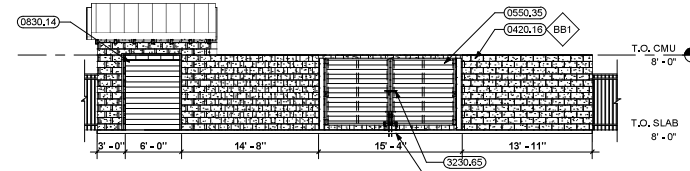
2 GENERATOR ENCLOSURE ELEVATION
1/8" = 1'-0"



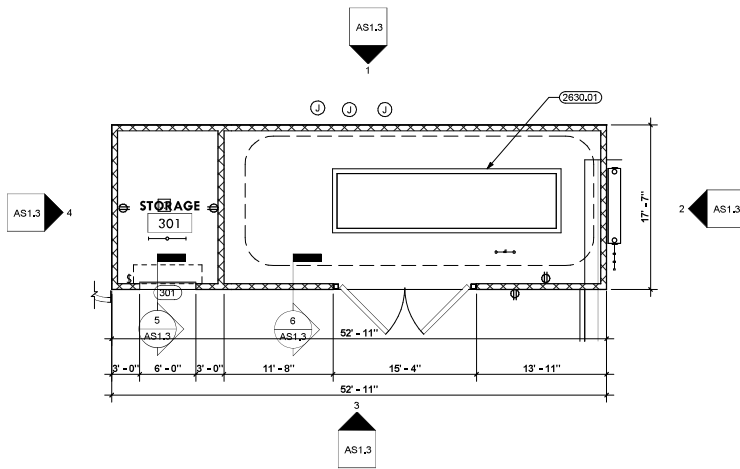
4 GENERATOR ENCLOSURE ELEVATION
1/8" = 1'-0"



1 GENERATOR ENCLOSURE ELEVATION
1/8" = 1'-0"



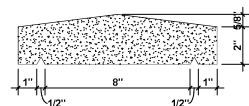
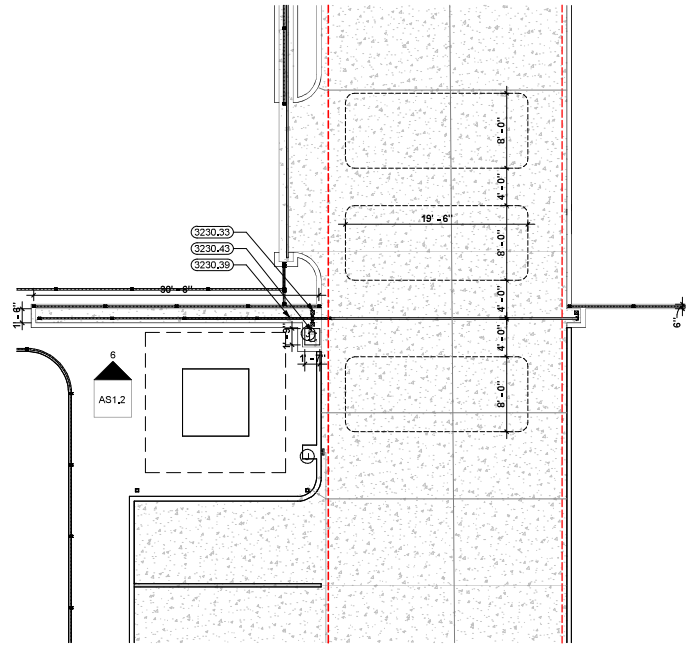
3 GENERATOR ENCLOSURE ELEVATION
1/8" = 1'-0"



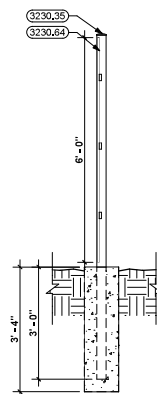
8 ENLARGED SITE PLAN
1/8" = 1'-0"



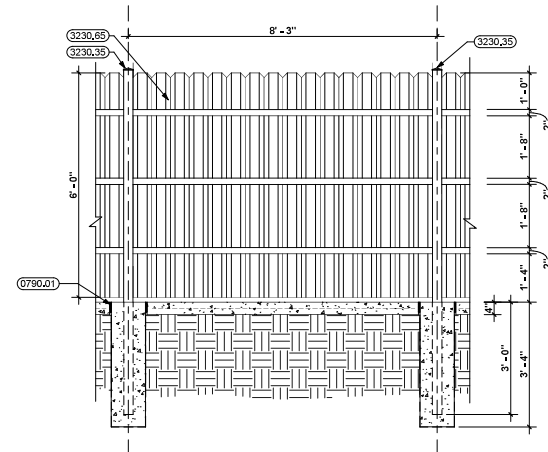
7 ENLARGED SITE PLAN
1/8" = 1'-0"



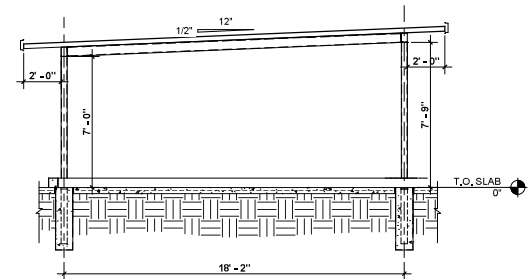
13 CAST STONE PROFILE
3" = 1'-0"



12 FENCE SECTION
1/2" = 1'-0"



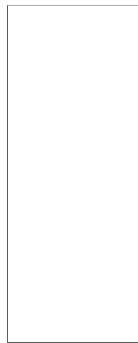
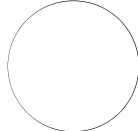
11 FENCE ELEVATION
1/2" = 1'-0"



10 COVERED PARKING SECTION
1/4" = 1'-0"

KEYNOTES

- 0330.02 CONCRETE SLAB
- 0330.05 CONCRETE GRADE BEAM
- 0360.03 FILL WITH GROUT
- 0420.02 CONCRETE MASONRY UNIT HORIZONTAL REINFORCING
- 0420.16 8" BURNISHED CONCRETE MASONRY UNITS
- 0420.23 CONCRETE MASONRY BOND BEAM
- 0470.01 CAST STONE
- 0550.35 1/2" X 1/2" STEEL VERTICAL PICKET
- 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
- 0830.14 OVERHEAD COILING DOOR
- 2630.01 EMERGENCY GENERATOR
- 3120.02 COMPACTED SELECT FILL
- 3230.33 GATE ROLLER
- 3230.35 POST CAP
- 3230.39 DECORATIVE METAL GATE
- 3230.43 SLIDING GATE OPERATOR AND CONCRETE PAD
- 3230.64 FIBERGLASS PRIVACY FENCE
- 3230.65 ORNAMENTAL FIBERGLASS FENCE



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GENERAL NOTES:

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST PROVIDE SUBMITTALS OF PROPOSED CONSTRUCTION MATERIALS FOR REVIEW BY THE DESIGN ENGINEER A MINIMUM OF 14 DAYS PRIOR TO REQUIRED ACQUISITION.
2. A PRE-CONSTRUCTION MEETING WILL BE HELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. TIME AND LOCATION TO BE DETERMINED BY OWNER.
3. ALL BOUNDARY, TOPOGRAPHIC INFORMATION, AND SURVEY CONTROL WAS COMPLETED IN JUNE 2024 BY CIVIL CORP. CHANGES IN SITE OR FIELD CONDITIONS MAY HAVE OCCURRED. IF CHANGES HAVE OCCURRED, NOTIFY ENGINEER.
4. THE CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTATION, BENCHMARKS, AND MARKERS DURING CONSTRUCTION.
5. THE CONTRACTOR MUST PROVIDE CONSTRUCTION STAKING SERVICES BASED ON THE INFORMATION PROVIDED IN THE PLANS.
6. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION ACTIVITIES WITH FACILITY/PROPERTY OWNERS. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING FACILITIES, PAVEMENT, ETC. AS A RESULT OF CONSTRUCTION ACTIVITIES. ALL DAMAGES ARE TO BE RESTORED TO EXISTING CONDITIONS WITH SIMILAR MATERIALS.
7. ALL ITEMS SHOWN ON THESE PLANS ARE ASSUMED NEW/PROPOSED UNLESS DESIGNATED OR SHOWN AS EXISTING AND SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR INCLUSIVE OF ANY MATERIALS, LABOR, EQUIPMENT, AND OTHER REQUIREMENTS FOR A COMPLETE AND FUNCTIONING SITE ELEMENT. ALL ITEMS NECESSARY FOR PROPER COMPLETION OF THE WORK NOT SPECIFICALLY CALLED FOR OR SPECIFIED ON THE PLANS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND CONSIDERED SUBSIDIARY TO THE WORK.
8. ALL UTILITIES AND SERVICE LINES SHOWN ARE TAKEN FROM RECORD INFORMATION SUPPLIED BY THE UTILITY OWNER OR HORIZONTALLY LOCATED BY INDEPENDENT LOCATORS. CONTRACTOR IS RESPONSIBLE TO REPORT ANY CONFLICTS BETWEEN PLAN AND ACTUAL CONDITIONS PRIOR TO CONSTRUCTION. OWNER, SURVEYOR, AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF INFORMATION OR DATA RELIED ON TO DERIVED UNDERGROUND FACILITIES. CONTRACTOR IS TO VERIFY THE EXACT LOCATION AND VERTICAL POSITIONING OF ALL PIPELINES, COMMUNICATION LINES, ELECTRICAL LINES, EXISTING UTILITIES, AND SERVICE LINES WITHIN THE PROJECT AREA, WHETHER SHOWN ON THE PLANS OR NOT, AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. CONTRACTOR IS TO CONTACT OWNERS OF ALL UTILITIES AND SERVICE LINES WITHIN THE PROJECT AREA AND NOTIFY OF INTENT AT LEAST 1 WEEK PRIOR TO CONSTRUCTION.
9. CONTRACTOR IS TO MAINTAIN STRUCTURAL INTEGRITY OF ALL PIPELINES, ELECTRIC TRANSMISSION POLES AND LINES, PERMANENT AND TEMPORARY UTILITIES, AND UTILITY SERVICES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES OR SERVICE LINES DURING THE CONSTRUCTION PROCESS. WHERE EXISTING UTILITIES OR SERVICE LINES ARE DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE THE UTILITY OR SERVICE LINE WITH THE SAME TYPE OF MATERIAL AND CONSTRUCTION, OR BETTER. ALL MATERIAL AND LABOR SHALL BE AT THE CONTRACTOR'S EXPENSE.
11. CONTRACTOR SHALL NOTIFY TEXAS811 AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITY AT 811 OR HTTP://WWW.TEXAS811.ORG. TEXAS811 MAY NOT CONTACT ALL RELEVANT UTILITIES, SO THE CONTRACTOR SHALL ALSO NOTIFY APPLICABLE UTILITY COMPANIES THAT HAVE UTILITY LINES ON OR IN THE GENERAL VICINITY OF THIS PROJECT SITE AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL STANDARDS, SPECIFICATIONS, AND REGULATIONS, WHERE CONSTRUCTION DOCUMENTS CONFLICT WITH THOSE GUIDELINES, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.
12. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ONSITE FIELD CONDITIONS OR SPECIFICATIONS OF OTHER DISCIPLINES. CONTRACTOR IS RESPONSIBLE TO REPORT ANY CONFLICTS WITHIN PLANS OR SPECIFICATIONS AND AWAIT WRITTEN INSTRUCTION FROM ENGINEER OR ARCHITECT PRIOR TO STARTING CONSTRUCTION.
13. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS, AS WELL AS INSPECTION APPROVALS.
14. A COPY OF APPROVED CONSTRUCTION PLANS SHALL BE KEPT ON SITE AT ALL TIMES THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN A SET OF REDLINE DRAWINGS TO RECORD AS-BUILT CONDITIONS.
15. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN A SAFE PROJECT SITE. THE CONTRACTOR SHALL CLEAN, REMOVE, AND PROPERLY DISPOSE OF ANY SURPLUS OR DISCARDED MATERIALS, TEMPORARY STRUCTURES, AND DEBRIS FROM THE PROJECT SITE.
16. THE CONTRACTOR IS RESPONSIBLE FOR STORAGE AND SAFE-GUARDING OF ALL MATERIALS AND EQUIPMENT AT THE PROJECT SITE TO MAINTAIN A SAFE AND SECURE PROJECT SITE.
17. THE CONTRACTOR SHALL COORDINATE SITE STORAGE WITH THE PROPERTY OWNER.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTAINMENT AND PROPER DISPOSAL OF ALL LIQUID AND SOLID WASTE ASSOCIATED WITH THIS PROJECT. THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO PREVENT THE OCCURRENCE OF WIND-BLOWN LITTER FROM THE PROJECT SITE. THE SITE IS REQUIRED TO PROVIDE CONTAINMENT FOR WASTE PRIOR TO AND DURING DEMOLITION. SOLID WASTE ROLL-OFF BOXES AND/OR METAL DUMPSTER SHALL BE SUPPLIED BY THE CONTRACTOR.
19. CONTRACTOR IS TO CONTINUE ALL WORK TO OWNER'S PROPERTY AND PREVIOUSLY APPROVED ADJACENT PROPERTIES AND/OR RIGHT-OF-WAY (R.O.W.). NO CONSTRUCTION ACTIVITY IS ALLOWED ON OR THROUGH PRIVATE PROPERTY UNLESS COVERED BY A PUBLIC UTILITY EASEMENT OR OTHER DOCUMENTED AGREEMENT. ANY ADJACENT R.O.W. OR PROPERTY AFFECTED DURING CONSTRUCTION SHALL BE RETURNED TO PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTOR'S EXPENSE.
20. ALL EXISTING UTILITY APPURTENANCES (FIRE HYDRANTS, MANHOLE RING AND COVER, JUNCTION BOX RING AND COVER, ETC.) SHALL BE ADJUSTED TO FINAL GRADES.
21. ALL CONSTRUCTION OPERATIONS FOR THIS PROJECT SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE UNITED STATES, TEXAS, AND LOCAL JURISDICTIONS (I.E. CITY OF KINGSVILLE).
22. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL STATE AND FEDERAL REGULATIONS REGARDING CONSTRUCTION ACTIVITIES INCLUDING REGULATIONS REGARDING CONSTRUCTION NEAR UTILITIES (I.E. OVERHEAD/UNDERGROUND ELECTRIC LINES, ETC.).
23. THESE PLANS, PREPARED BY GESSNER ENGINEERING, DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR HIS EMPLOYEES, AGENTS, OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THE WORK.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL JOB SITE SAFETY, FOR MANAGEMENT OF JOB SITE PERSONNEL, FOR SUPERVISION OF THE USE OF JOB SITE EQUIPMENT, AND FOR DIRECTION OF ALL CONSTRUCTION PROCEDURES, METHODS, AND ELEMENTS REQUIRED TO COMPLETE THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.

TRAFFIC CONTROL NOTES:

1. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN, AS REQUIRED, FOR REVIEW IN THE SUBMITTAL PROCESS OR AS THE NEED ARISES.
2. ALL TRAFFIC CONTROL DEVICES AND TRAFFIC MANAGEMENT SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF MUTCD PART VI.
3. ALL CONSTRUCTION BARRICADES, SIGNS, MARKINGS, CHANNELIZING DEVICES, AND SPACING SHALL BE IN ACCORDANCE TO THE LATEST VERSION OF TxDOT BARRICADE AND CONSTRUCTION STANDARDS.
4. ALL EXISTING TRAFFIC SIGNS AND PAVEMENT MARKINGS VISIBILITY SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER OR PREVIOUSLY APPROVED TRAFFIC CONTROL PLANS. THE CONTRACTOR SHALL RESTORE OR REPLACE SIGNS AND PAVEMENT MARKINGS OR SIGNALS DAMAGED DURING CONSTRUCTION OPERATIONS, INCLUDING RAISED PAVEMENT MARKERS (RPMs) AND CHIP SEAL MARKERS.
5. ACCESS TO DRIVEWAYS ADJACENT TO THE CONSTRUCTION WORK ZONE SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL DELINEATORS MAY BE REQUIRED TO DELINEATE THE DRIVEWAY ACCESS ROUTE THROUGH THE CONSTRUCTION WORK ZONE. A MINIMUM OF ONE TRAVEL LANE SHALL BE MAINTAINED ACROSS THE DRIVEWAYS, UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM ENGINEER.
6. AT THE END OF EACH WORK DAY, DURING NON-ACTIVE CONSTRUCTION PERIODS, AND ANY TIME A FLAGGER IS NOT PRESENT, FLAGGING TOP SIGNAGE SHALL BE REMOVED.
7. CONTRACTOR TO COORDINATE ANY NECESSARY ROAD CLOSURES WITH LOCAL RESIDENTS, BUSINESSES, AND EMERGENCY SERVICES A MINIMUM OF 7 DAYS PRIOR.

DEMOLITION NOTES:

1. AREAS BENEATH REMOVED PAVEMENT SHALL BE CLEARED OF ALL LOOSE OR DISTURBED MATERIAL AND WATER.
2. UNDER ALL IMPROVEMENTS, ALL ITEMS ARE TO BE REMOVED UNLESS OTHERWISE INDICATED. REMOVE NOT ONLY THE ABOVE-GROUND ELEMENTS BUT ALL UNDERGROUND ELEMENTS FOR UTILITIES UNLESS OTHERWISE INDICATED.
3. DURING CLEARING AND GRUBBING ACTIVITIES WHERE TREES AND BRUSH ARE TO BE REMOVED, REMOVE THE TOTAL EXTENT OF THEIR ROOT SYSTEMS.
4. UNLESS OTHERWISE DIRECTED BY THE OWNER, ALL MATERIALS AND DEBRIS DEMOLISHED AND/OR REMOVED SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER. ON-SITE BURNING WILL NOT BE PERMITTED.
5. ALL EXCESS CUT MATERIAL IS TO BE HAULED OFF AND DISPOSED OF OFF-SITE.
6. CONTRACTOR SHALL PREVENT TRANSPORT OF SEDIMENT TO ADJACENT PROPERTIES AND PUBLIC OR PRIVATE RIGHT-OF-WAYS AND IS RESPONSIBLE FOR CLEANUP IF SUCH OCCURS. CONTRACTOR IS TO ENSURE NO CONSTRUCTION DEBRIS OR MUD IS TRACKED OR DISCARDED ON TO ANY PUBLIC OR PRIVATE STREETS OR LAND AND IS RESPONSIBLE FOR SITE CLEANUP AFTER EACH DAY'S WORK. CONTRACTOR IS TO MAKE USE OF BEST MANAGEMENT PRACTICES TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING EXISTING STORM SEWER OR DOWNSPEAK CHANNEL AREAS. CONTRACTOR SHALL MAINTAIN EROSION CONTROL THROUGHOUT CONSTRUCTION PERIOD UNTIL GRASS IS ESTABLISHED.
7. CONTRACTOR IS TO PROTECT ALL EXISTING TREES INDICATED TO REMAIN DURING DEMOLITION AND

CONSTRUCTION ACTIVITIES UNLESS OTHERWISE NOTED IN THE PLANS.

DIMENSION CONTROL NOTES:

1. THE CONTRACTOR MAY OBTAIN AN ELECTRONIC COPY OF PROJECT PLANS FOR CONSTRUCTION PURPOSES, WITH THE PERMISSION OF THE OWNER. THE ELECTRONIC FILE AND INFORMATION GENERATED BY GESSNER ENGINEERING FOR THIS PROJECT IS CONSIDERED BY GESSNER ENGINEERING TO BE CONFIDENTIAL. WHEN ISSUED, ITS USE IS INTENDED SOLELY FOR THE INDIVIDUAL OR ENTITY TO WHOM IT IS ADDRESSED. THE MATERIAL IS INTENDED FOR USE BY THE RECIPIENT NAMED ONLY, AND PERMISSION IS NOT GRANTED TO THE RECIPIENT FOR DISTRIBUTION OF THIS DOCUMENT IN ANY FORM OR FASHION. THE RECIPIENT UNDERSTANDS THAT THIS DATA IS AUTHORIZED "AS IS" WITHOUT ANY WARRANTY AS TO ITS PERFORMANCE, ACCURACY, FREEDOM FROM ERROR, OR AS TO ANY RESULTS GENERATED THROUGHOUT ITS USE. THE RECIPIENT ALSO UNDERSTANDS AND AGREES THAT GESSNER ENGINEERING, UPON RECEIPT OF THIS DATA, IS NO LONGER RESPONSIBLE FOR THEIR USE OR MODIFICATION. THE USER AND RECIPIENT OF THE ELECTRONIC DATA ACCEPTS FULL RESPONSIBILITY AND LIABILITY FOR ANY CONSEQUENCES ARISING OUT OF THEIR USE.
2. ALL DIMENSIONS SHOWN ARE TO BE USED IN CONJUNCTION WITH THE PLANS FOR LOCATING ALL IMPROVEMENTS AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR FOR WORKABILITY PRIOR TO CONSTRUCTION OF THE IMPROVEMENTS.
3. REFER TO ARCHITECTURAL PLANS FOR DETAILED BUILDING DIMENSIONS.
4. REFER TO STRUCTURAL PLANS FOR DETAILED FOUNDATION DIMENSIONS.

GRADING NOTES:

1. ALL UNPAVED AREAS SHALL BE ADEQUATELY GRADED TO DRAIN AT A MINIMUM OF 2.0% SLOPE, UNLESS OTHERWISE NOTED, SO THAT NO PONDING OCCURS.
2. WHEN TOP OF CURB ELEVATIONS ARE SHOWN, THE CURBS IS A STANDARD 6" CURB, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL FOLLOW THE GENERAL INTENT OF THE GRADING PLANS. MINOR ADJUSTMENTS TO THE ACTUAL ELEVATIONS SHOWN ON THE GRADING PLAN MAY BE REQUIRED TO MATCH EXISTING GROUND ELEVATIONS WITHIN THE PROJECT AREA, WHETHER SHOWN ON THE PLANS OR NOT, AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
4. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER.
5. THE APPROVAL OF THE PLANS IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES, WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING. PERMISSION MUST BE OBTAINED FROM AFFECTED PROPERTY OWNERS(S), ANY ADJACENT PROPERTY OR RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO EXISTING CONDITIONS OR BETTER.
6. REFERENCE GEOTECHNICAL REPORT "GEOTECHNICAL ENGINEERING STUDY KINGSVILLE FIRE STATION NO.3 KINGSVILLE, TEXAS" BY TOLUNA-YWONG ENGINEERS, DATED JULY 2024.
7. FILL MATERIAL FOR NON-STRUCTURAL AREAS (5 FOOT OUTSIDE OF EDGE OF PAVEMENT, BACK OF CURB, OR IMPROVED AREAS) SHALL BE PLACED IN MAXIMUM LOOSE LIFTS AND COMPACTED TO A UNIFORM DENSITY OF AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR (ASTM D698) WITH A MOISTURE CONTENT OF +0 TO 4% OF OPTIMUM.
8. COMPACTION AND MOISTURE CONTROL SHALL BE VERIFIED BY IN-PLACE DENSITY TEST FOR EACH LIFT, 1 TEST PER 4,000 SF OF FILL PLACED, WITH A MINIMUM OF 1 TEST PER LIFT.
9. PRIOR TO REVEGETATION OPERATIONS, CONTRACTOR TO SPREAD/REPLACE AND CONSOLIDATE TOPSOIL TO A DEPTH OF 6" MINIMUM.
10. CONTRACTOR IS RESPONSIBLE FOR WATERING (INCLUDING TEMPORARY IRRIGATION IN AREAS NOT RECEIVING PERMANENT IRRIGATION), MAINTENANCE, AND ESTABLISHMENT OF VEGETATION FOR A PERIOD OF 90 DAYS.
11. GROWTH AND COVERAGE SHALL BE DEFINED AS 95% OF THE PLANTED AREA WITH UNIFORM COVERAGE OF GRASS GREATER THAN 1" IN HEIGHT WITH NO BARE SPOTS GREATER THAN 2 SQUARE FEET. SECOND APPLICATION OF SEED OR HYDROMULCH IS REQUIRED FOR BARE SPOTS NOT MEETING COVERAGE REQUIREMENT WITHIN 30 DAYS OF INITIAL APPLICATION.
12. ALL DISTURBED AREAS NOT TO BE PAVED OR NOT INCLUDED IN THE LANDSCAPE SCOPE ARE TO BE PREPARED AND HYDROMULCHED OR SEEDED FOR PERMANENT ESTABLISHMENT OF VEGETATION. PRIOR TO OPERATIONS, CONTRACTOR IS TO REFACE AND CONSOLIDATE TOPSOIL TO A DEPTH OF 6" MINIMUM. TOPSOIL TO BE HARLEY RAKE/TILLED TO A DEPTH OF 4" PRIOR TO SEEDING OR INSTALLATION OF SOO. FINAL GRADES WITH ESTABLISHED VEGETATION SHALL PROVIDE POSITIVE DRAINAGE.
13. CONTRACTOR SHALL MAINTAIN EROSION CONTROL UNTIL ALL LANDSCAPE AREAS ARE ESTABLISHED FOR A MINIMUM OF 90 DAYS. CONTRACTOR IS RESPONSIBLE FOR CLEANUP FROM LANDSCAPING MATERIALS SUCH AS MULCH OR LANDSCAPE SEEDMENT.
14. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING NO.10 I.N.O.T. TO T.C.E.Q. & PROVIDING DOCUMENTATION OF SUBMISSION TO THE AUTHORITY HAVING JURISDICTION.
15. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC. WITHIN THE AREA OF CONSTRUCTION. THEY MUST BE ADJUSTED TO PROPER GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PAVEMENT AND GRADING.
16. SIDEWALKS SHALL HAVE A SLOPE NO GREATER THAN 5% AND A CROSS SLOPE NO GREATER THAN 2% UNLESS OTHERWISE NOTED.
17. HANDICAP ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL HAVE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS PER T.A.S. REQUIREMENTS.
18. CONTRACTOR SHALL CONTACT GESSNER ENGINEERING IF DISCREPANCIES EXIST AT EXISTING GRADE TIE-INS.
19. EXISTING MATERIALS TO BE STOCKPILED ON SITE AND REPLACED AFTER GRADING OPERATIONS ARE COMPLETE, AND HAULED OFF EXCESS.

PAVEMENT NOTES:

1. SUBGRADE:
 - 1.A. EXISTING VEGETATION, TREES, STUMPS, AND ROOTS SHALL BE GRUBBED AND REMOVED AND ALL TOPSOIL AND ORGANIC MATERIAL STRIPPED FROM THE AREAS TO BE COVERED BY PAVEMENT.
 - 1.B. PAVING AREAS SHALL BE PROOF-ROLLED WITH A 20-TON ROLLER PRIOR TO CONSTRUCTION. IF REQUIRED AT THE TIME OF CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE WEAK AREAS BY OVER EXCAVATING AND BACKFILLING WITH SPECIFIED MATERIALS.
- 1.C. FILL MATERIAL FOR AREAS UNDER PAVEMENT AND EXTENDING 2 FOOT BEYOND EDGE OF PAVEMENT OR BACK OF CURB SHALL MEET THE MATERIALS AS OUTLINED IN THE GEOTECHNICAL REPORT "GEOTECHNICAL ENGINEERING STUDY KINGSVILLE FIRE STATION NO.3 KINGSVILLE, TEXAS" TOLUNA-YWONG ENGINEERS, JULY 2024.
- 1.D. SPECIFIED MATERIALS SHALL BE PLACED IN 8" MAXIMUM LOOSE LIFTS, AND COMPACTED TO A UNIFORM DENSITY OF AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR (ASTM D698) WITH A MOISTURE CONTENT OF -2% TO +3% OF OPTIMUM.
- 1.E. COMPACTION AND MOISTURE CONTROL SHALL BE VERIFIED BY IN-PLACE DENSITY TEST FOR EACH LIFT FOR EVERY 200 LINEAR FEET OF PAVEMENT OR EVERY 4,000 SF OF FILL PLACED, WHICHEVER WOULD PRODUCE THE GREATER TESTING FREQUENCY, WITH A MINIMUM OF ONE TEST PER LIFT.
- 1.F. SOILS SHALL BE STABILIZED WITH LIME TREATMENT IF PAVEMENT SUBGRADE SOILS CONSIST OF CLAYS OR CLAYEY SANDS OF HIGH PLASTICITY (PI > 20).
- 1.G. SOILS SHALL BE STABILIZED WITH CEMENT TREATMENT IF PAVEMENT SUBGRADE SOILS CONSIST OF SANDS OR SILTS WITH LOW PLASTICITY (PI < 15).
- 1.H. STABILIZATION SHALL BE ACCOMPLISHED SUCH THAT A UNIFORM SUBGRADE MIX IS OBTAINED AND SHALL EXTEND TO 2 FOOT BEYOND THE BACK OF CURB OR EDGE OF PAVEMENT. PRIOR TO THE APPLICATION OF LIME OR CEMENT TO THE SUBGRADE, THE OPTIMUM PERCENTAGE TO BE ADDED SHALL BE DETERMINED BASED ON TEX-122E LABORATORY TESTS (LIME) AND TEX-120C LABORATORY TESTS (CEMENT) CONDUCTED ON MIXTURES OF THE SUBGRADE SOILS WITH VARYING PERCENTAGES. SUBGRADE SOIL SAMPLES SHOULD BE OBTAINED FROM THE PAVEMENT AREA AT THE PROPOSED FINAL SUBGRADE ELEVATION. THE LIME OR CEMENT SHOULD INITIALLY BE BLENDED WITH A MIXING DEVICE SUCH AS PULVERIZER OR MIXER AND SUFFICIENT WATER ADDED.
- 1.I. THE AMOUNT OF LIME REQUIRED FOR STABILIZATION SHOULD BE THE PERCENT REQUIRED BY WEIGHT TO PRODUCE A PH NOT LESS THAN 12.4 AND TO PROVIDE A P VALUE OF LESS THAN OR EQUAL TO 18.
- 1.J. THE AMOUNT OF CEMENT REQUIRED FOR STABILIZATION SHOULD BE THE PERCENT REQUIRED BY WEIGHT TO PRODUCE A MINIMUM COMPRESSIVE STRENGTH OF 50 PSI PRIOR TO BEING OPEN TO LOCAL OR CONSTRUCTION TRAFFIC.
- 1.K. A STABILIZATION DEPTH CHECK SHALL BE PERFORMED WITH EACH DENSITY TEST FOR THE STABILIZED LIFT.

2. CONCRETE PAVEMENT:
 - 2.A. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI UNLESS OTHERWISE NOTED.
 - 2.B. ALL CONCRETE SHALL BE VIBRATED WHEN PLACED.
 - 2.C. PAVEMENT CONTRACTION JOINTS SHALL BE INSTALLED PER PLAN AND DETAIL SHEET, WITH A MAXIMUM SPACING OF 24 TIMES THE THICKNESS OF THE PAVEMENT (E.G. 12' FOR 6" PAVEMENT). CONTRACTION JOINTS SHALL BE INSTALLED AS SOON AS CONCRETE CURING ALLOWES AND SHALL BE CUT 1/4 OF THE THICKNESS OF THE PAVEMENT. AN EARLY ENTRY SAW IS PREFERRED. TOOLED OR FORMED JOINTS ARE NOT ALLOWED.
 - 2.D. PAVEMENT EXPANSION JOINTS SHALL BE SPACED AS SHOWN ON THE PLANS AND INSTALLED PER DETAIL SHEET. CONSTRUCTION SHALL BE STOPPED AT EXPANSION JOINTS. IF CONDITIONS REQUIRE, CONSTRUCTION TO BE STOPPED AT OTHER LOCATIONS, A COLD JOINT SHALL BE CONSTRUCTED.
 - 2.E. ISOLATION JOINTS SHALL BE PLACED AT ALL IN-PAVEMENT OBJECTS INCLUDING INLETS, LIGHT POLE FOOTINGS, CLEANOUTS, ETC.
 - 2.F. ALL JOINTS SHALL BE SEALED. PROVIDE EXPANSION JOINT WATER STOP CAPS AT NEW CONCRETE. PROVIDE EXPANSION JOINT SEALANT AT NEW TO EXISTING PAVEMENT.
 - 2.G. REFERENCE DETAIL SHEET FOR PAVEMENT AND SIDEWALK CONSTRUCTION DETAILS.

- 2.H. TRANSPORTATION AND PLACEMENT OF THE CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301. A TEST SET CONSISTING OF 4 CYLINDERS SHALL BE TAKEN FOR EVERY 75 CUBIC YARDS OF CONCRETE.

3. REINFORCING STEEL:
 - 3.A. ALL REINFORCEMENT SHALL BE ASTM A-615, GRADE 60. THE PAVEMENT REINFORCEMENT SHALL BE PER DETAILS.
 - 3.B. LAPS AND SPICES IN REINFORCING BARS SHALL BE A MINIMUM OF 30 BAR DIAMETERS IN LENGTH. BARS SHALL BE SECURED AT EVERY OTHER INTERSECTION.
4. CURB AND GUTTER SECTION:
 - 4.A. EXPANSION JOINTS SHALL BE SPACED AT A MAXIMUM DISTANCE OF 40' AND AT ALL RADIUS POINTS, PTS AND PCS AND SHALL BE SEALED.
 - 4.B. CONTRACTION JOINTS SHALL BE SPACED AT A MAXIMUM OF 10' AND SHALL BE SEALED. TOOLED OR FORMED JOINTS ARE NOT ALLOWED.
5. PAINTING AND STRIPING:
 - 5.A. CONTRACTOR SHALL PAINT STRIPING FOR THE PARKING AREA AS INDICATED ON THE PLAN. THE SOLID LINE REPRESENTS A 4" WIDE SOLID WHITE LINE TO BE PAINTED. CONTRACTOR IS RESPONSIBLE TO PAINT HANDICAP MARKINGS AND LOADING ZONES IN CONFORMANCE WITH CURRENT ADA/TAS STANDARDS AND ALL FIRE LANE MARKINGS IN ACCORDANCE WITH AUTHORITY HAVING JURISDICTION REQUIREMENTS.
 - 5.B. MATERIAL AND METHODS FOR PAVEMENT MARKINGS SHALL CONFORM TO TxDOT ITEM 666 TYPE 1 (OR 2) AND DISCREPANCY OF THE TxDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND BRIDGES.

GENERAL UTILITY NOTES:

1. THE CONTRACTOR SHALL NOTIFY TEXAS 811 AND THE APPROPRIATE UTILITY COMPANY 48 HOURS PRIOR TO EXCAVATION, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS.
2. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL STATE AND FEDERAL REGULATIONS REGARDING CONSTRUCTION ACTIVITIES NEAR ALL ENERGIZED ELECTRIC LINES.
3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF ALL FRANCHISE & PRIVATE UTILITIES WITH EARTHWORK & PAVEMENT CONSTRUCTION.
4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING & INSTALLING ANY NECESSARY UTILITY CONDUIT PRIOR TO SUBGRADE PREPARATION & PAVING OPERATION.
5. GENERAL CONTRACTOR IS RESPONSIBLE FOR DETERMINATION OF UTILITY INSTALLATION ORDER.
6. ALL PIPES AND APPURTENANCES SHALL BE KEPT FREE OF DIRT AND OTHER DEBRIS. STORE ALL MATERIALS PER MANUFACTURER'S RECOMMENDATIONS, ANY DAMAGED MATERIALS SHALL BE REMOVED FROM THE SITE AND REPLACED.
7. TRENCH BACKFILL FOR ALL UTILITIES SHALL MEET THE DETAILS, SPECIFIED MATERIALS, AND BE FREE OF DEBRIS, TRASH, VEGETATION, AND ROCKS LARGER THAN 2" IN DIAMETER OR MATERIAL AS OUTLINED IN THE GEOTECHNICAL REPORT. FOR UNDER AREAS TO BE PAVED & WITHIN 5' OF EDGE OF PAVING, THE BACKFILL SHALL BE PLACED IN 8" MAXIMUM LOOSE LIFTS AND COMPACTED TO A UNIFORM DENSITY OF AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR (D698) WITH A MOISTURE CONTENT OF -2% TO +3% OF OPTIMUM. ALL OTHER AREAS SHALL BE COMPACTED TO A UNIFORM DENSITY OF AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR (D698).
8. COMPACTION AND MOISTURE CONTROL SHALL BE VERIFIED BY IN-PLACE DENSITY TEST FOR EACH LIFT FOR EVERY 100 LINEAR FEET OF TRENCH PLACED, WITH A MINIMUM OF ONE TEST PER LIFT.
9. ALL SLEEVES TO BE INSTALLED WITH PULL STRING AND END CAPS, WITH ENDS EXTENDING 2' BEYOND PAVEMENT EDGE. CONTRACTOR TO MAKE ENDS OF SLEEVES WITH PVC EXTENDING 3' ABOVE GROUND AS FOLLOWS: ELECTRIC, 4" PAINTED RED, COMMUNICATIONS-3" PAINTED ORANGE, IRRIGATION-3" PAINTED BROWN, WATER-4" PAINTED BLUE.

STORM NOTES:

1. ALL STORM SEWER IS PROPOSED RCP, UNLESS OTHERWISE NOTED.
2. TRENCH BACKFILL SHALL BE PER DETAILS.
3. STORM SEWER MATERIAL SHALL BE AS FOLLOWS FOR THE FOLLOWING INSTALLATIONS:
 - 3.A. REINFORCED CONCRETE PIPE (RCP), ASTM C76, WALL B, CLASS III AND/OR CLASS IV, RUBBER GASKETED JOINT MEETING ASTM C443
 4. CONCRETE FOR STRUCTURES (INLETS, CATCH BASINS, JUNCTIONS, ETC.):
 - 4.A. MIN 4000 PSI-28 DAY STRENGTH FOR ITEMS UP TO 10' DIMENSION
 - 4.B. MIN 5000 PSI-28 DAY STRENGTH FOR ITEMS WITH GREATER THAN 10' DIMENSION
5. CONTRACTOR IS TO USE SELF FENCING AROUND INLET AND JUNCTION BOXES AND GRAVEL FILLED PERMEABLE BAGS AROUND INLET BOXES (AS NECESSARY) TO PREVENT SEDIMENT FROM ENTERING STORM SEWER SYSTEM.
6. CONTRACTOR TO USE EROSION CONTROL LOGS AROUND CULVERT INLETS AND OUTLETS TO PREVENT SEDIMENT FROM ENTERING THE CULVERTS. PRIOR TO ACCEPTANCE OF PROJECT FOR SUBSTANTIAL COMPLETION, CONTRACTOR TO CLEAN ALL CULVERTS AND STORM FACILITIES OF SEDIMENT.
7. CONTRACTOR SHALL PROVIDE A MINIMUM OF 12 INCH CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS AND A MINIMUM OF 6 INCH CLEARANCE AT STORM AND SANITARY SEWER CROSSINGS.
8. ALL PERMANENT ROCK RIP-RAP TO BE LIMESTONE USING GENERALLY 50LB - 250LB PIECES, FOLLOWING TxDOT ITEM #432, WITH SMALLER ROCK FILLING VOIDS. ROCK TO BE INSTALLED TO 1.5 TIMES AVERAGE ROCK DIAMETER MIN. THICKNESS. INSTALL FILTER FABRIC BENEATH ROCK PER TxDOT MATERIAL SPEC. DMS-600, TYPE 2 (SUCH AS 205MM NON-WOVEN FILTER FABRIC AS MFD, BY US FABRICS). RIP-RAP TO BE HAND PLACED PROVIDING A NEAT, UNIFORM, TIGHT SURFACE IN ACCORDANCE WITH TxDOT SPECIFICATIONS ITEM #432, STONE RIP-RAP (TYPE R). BROKEN CONCRETE MAY NOT BE USED FOR PERMANENT INSTALLATIONS. NO SOIL SHOULD BE VISIBLE THROUGH RIP-RAP.

SANITARY SEWER NOTES:

1. ALL SANITARY SEWER LINES TO BE POLYVINYL CHLORIDE (PVC), ASTM D3034, SDR 26, TYPE PSM SEWER PIPE WITH BELL AND SPIGOT END FOR RUBBER GASKETED JOINTS MEETING ASTM F475/SDR-26 PVC UNLESS OTHERWISE NOTED ON THE PLANS.
2. SANITARY SEWER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT TCEQ REGULATIONS, CHAPTER 217, LOCAL JURISDICTIONAL REGULATIONS, AND IN ACCORDANCE WITH THE 2024 INTERNATIONAL PLUMBING CODE. ALL SECTIONS OF THE SANITARY COLLECTION SYSTEM SHALL BE INSTALLED NO CLOSER THAN NINE FEET IN ALL DIRECTIONS TO THE POTABLE WATER DISTRIBUTION FACILITIES. ALL SEPARATION DISTANCES SHALL BE MEASURED FROM THE OUTSIDE SURFACE OF EACH OF THE RESPECTIVE PIECES. IF NINE FEET OF SEPARATION CANNOT BE MET, FOLLOW CURRENT TCEQ CHAPTER 217.53 (D) AND 290.44(E) REGULATIONS. IF CONFLICTS OCCUR, CONTACT ENGINEER.
4. ALL SANITARY SEWER LINES SHALL BE THOROUGHLY CLEANED, TESTED, AND APPROVED PRIOR TO ANY CONNECTIONS BEING MADE TO THE EXISTING SANITARY SEWER SYSTEM.
5. ALL SANITARY SEWER LINE AND MANHOLE TESTING SHALL BE IN ACCORDANCE WITH CURRENT TCEQ REGULATIONS AND SPECIFICATIONS. A LOW PRESSURE AIR TEST OR AN INFLTRATION/EXFILTRATION TEST SHALL BE COMPLETED IN ACCORDANCE WITH 217.57 (A). DEFLECTION TESTING BY MANDREL SHALL BE COMPLETED ON ALL FLEXIBLE PIPES. MANDREL SIZING AND TESTING PROCEDURES SHALL BE IN ACCORDANCE WITH 217.57 (B). A VACUUM TEST SHALL BE PERFORMED ON ALL MANHOLES IN ACCORDANCE WITH 217.58 (B)(2).
6. ALL ASPECTS OF THE SEWER LINE INCLUDING PIPE JOINTS AND MANHOLES, SHALL HAVE A DESIGN LIFE CYCLE OF NO LESS THAN FIFTY YEARS. IF A PIPE OR AN INTEGRAL STRUCTURAL COMPONENT OF A PIPE WILL DETERIORATE WHEN SUBJECTED TO CORROSIVE INTERNAL CONDITIONS OR IF A PIPE OR COMPONENT DOES NOT HAVE A CORROSIVE RESISTANT LINER INSTALLED BY THE MANUFACTURER, THE CONTRACTOR MUST DEMONSTRATE THE STRUCTURAL INTEGRITY OF THE PIPE DURING THE MINIMUM 50-YEAR DESIGN LIFE CYCLE.
7. CLEAN-OUT INSTALLATIONS MUST PASS ALL APPLICABLE TESTING REQUIREMENTS OUTLINED FOR GRAVITY COLLECTION PIPES IN 217.57 (RELATING TO TESTING REQUIREMENTS FOR INSTALLATION OF GRAVITY COLLECTION SYSTEM PIPES).
8. A MANHOLE MUST BE MADE OF MONOLITHIC, CAST-IN-PLACE CONCRETE, FIBERGLASS, PRE-CAST CONCRETE MEETING ASTM C478, HIGH-DENSITY POLYETHYLENE, OR EQUIVALENT MATERIAL THAT PROVIDES ADEQUATE STRUCTURAL INTEGRITY. THE USE OF BRICKS TO ADJUST A MANHOLE COVER TO GRADE OR CONSTRUCT A MANHOLE IS PROHIBITED.
9. THE INSIDE DIAMETER OF A MANHOLE MUST BE NO LESS THAN 48 INCHES.
10. THE BOTTOM OF A MANHOLE MUST CONTAIN A U-SHAPED CHANNEL THAT IS A SMOOTH CONTINUATION OF THE INLET AND OUTLET PIPES.
11. A MANHOLE CONNECTION MUST USE WATER-TIGHT, SIZE-ON-SIZE RESILIENT CONNECTORS THAT ALLOW FOR DIFFERENTIAL SETTLEMENT AND MUST CONFORM TO ASTM C923.

WATER NOTES:

1. ALL WATER LINES TO BE POLYVINYL CHLORIDE (PVC), AWWA C-900, DR 14.
2. POTABLE WATER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT TCEQ REGULATIONS, CHAPTER 290, LOCAL JURISDICTIONAL REGULATIONS, AND IN ACCORDANCE WITH THE 2024 INTERNATIONAL PLUMBING CODE.
3. SEPARATION OF PUBLIC WATER AND WASTEWATER MAINS SHALL BE CONSISTENT WITH THE CURRENT RULES & REGULATIONS FOR PUBLIC WATER SYSTEMS OF THE TCEQ.
4. WATER SERVICE LINES SHALL MAINTAIN A MINIMUM COVER OF THREE (3) FEET AND A MAXIMUM COVER OF FIVE (5) FEET UNLESS OTHERWISE SPECIFIED ON PLANS AND/OR REQUIRED FOR UTILITY CROSSINGS.
5. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION (ANSI/NSF) STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI.

6. ALL PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST ALSO BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL (NSF-PW) AND HAVE AN ASTM DESIGN PRESSURE RATING OF AT LEAST 150 PSI OR A STANDARD DIMENSION RATIO OF 26 OR LESS.
7. ONLY NEW PIPE MATERIAL IS ALLOWED IN ANY PUBLIC DRINKING WATER SUPPLY.
8. LEAD BAN SHALL BE FOLLOWED PER CURRENT TCEQ 290.44 (B) REGULATIONS.
9. POTABLE WATER DISTRIBUTION LINES AND WASTEWATER MAINS OR LATERALS THAT FORM PARALLEL UTILITY LINES SHALL BE INSTALLED IN SEPARATE TRENCHES.
10. NO PHYSICAL CONNECTION SHALL BE MADE BETWEEN A DRINKING WATER SUPPLY AND A SEWER LINE. ANY APPURTENANCES SHALL BE DESIGNED AND CONSTRUCTED SO AS TO PREVENT ANY POSSIBILITY OF SEWAGE ENTERING THE DRINKING WATER SYSTEM.
11. ALL SECTIONS OF THE POTABLE WATER DISTRIBUTION SYSTEM SHALL BE INSTALLED NO CLOSER THAN NINE FEET IN ALL DIRECTIONS TO THE SANITARY SEWER COLLECTION FACILITIES. ALL SEPARATION DISTANCES SHALL BE MEASURED FROM THE OUTSIDE SURFACE OF EACH OF THE RESPECTIVE PIECES. IF THE NINE FOOT SEPARATION CANNOT BE MET, FOLLOW CURRENT TCEQ CHAPTER 217.53 (D) AND 290.44(E) REGULATIONS. IF CONFLICTS OCCUR, CONTACT ENGINEER.
12. WATER LINES SHALL NOT BE INSTALLED CLOSER THAN TEN FEET TO A SEPTIC TANK OR DRAIN FIELD.
13. FIRE HYDRANTS SHALL NOT BE INSTALLED WITHIN NINE FEET VERTICALLY OR HORIZONTALLY OF ANY WASTEWATER MAIN, LATERAL, OR SERVICE.
14. AFTER THE PIPE HAS BEEN LAID AND BACKFILLED, BUT PRIOR TO THE REPLACEMENT OF PAVEMENT, EACH VALVED SECTION OF NEWLY LAID PIPE SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE TEST. TESTING PROCEDURES SHALL BE PER SPECIFICATION OR LOCAL JURISDICTION REQUIREMENTS WITH A MINIMUM PRESSURE OF 150 PSI WHICHEVER IS MORE STRINGENT. ADJUSTMENT SHALL BE MADE FOR DIFFERENTIAL IN ELEVATION BETWEEN THE LOW POINT OF THE SECTION BEING TESTED AND THE CENTERLINE OF THE PRESSURE TEST GAUGE.
15. EACH VALVED SECTION OF PIPE SHALL BE SLOWLY FILLED WITH WATER TO THE SPECIFIED TEST PRESSURE, MEASURED TO THE POINT OF LOWEST ELEVATION. WATER SHALL BE SUPPLIED BY MEANS OF A PUMP CONNECTED TO THE PIPE IN A SATISFACTORY AND SANITARY MANNER. PRESSURE SHALL BE HELD FOR A MINIMUM OF 2 HOURS WITHOUT PRESSURE LOSS OR PER LOCAL JURISDICTION. THE PUMP, PIPE CONNECTION, AND ALL NECESSARY APPARATUS, INCLUDING GAUGES AND METERS SHALL BE FURNISHED BY THE CONTRACTOR.
16. NO PIPE INSTALLATION WILL BE ACCEPTED UNTIL THE LEAKAGE OR PRESSURE LOSS IS LESS THAN REQUIRED.
17. THE WATER LINES SHALL BE FLUSHED AND THOROUGHLY STERILIZED. STERILIZATION SHALL FOLLOW THE PROCEDURES AS OUTLINED IN CURRENT AWWA C651, OR PER LOCAL JURISDICTION, WHICHEVER IS MORE STRINGENT. A MINIMUM OF ONE SAMPLE FOR MICROBIAL TESTING SHALL BE COMPLETED PER 1,000 FEET OF COMPLETE WATERLINE.

DRAINAGE AREA MAP NOTES:

1. THIS SHEET IS FOR SITE PLANNING PURPOSES ONLY. IT IS NOT TO BE USED AS A DOCUMENT FOR CONSTRUCTION.
2. DRAINAGE CALCULATIONS WERE PERFORMED UTILIZING RATIONAL METHODOLOGIES.

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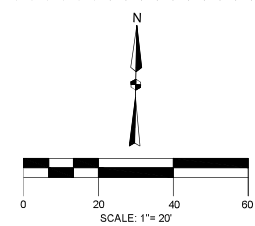
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PROJECT BENCHMARK 1: 8BM1
NGS MONUMENT LOCATED APPROXIMATELY 34' NORTHWEST OF A POWER POLE.
NORTHING = 17067986.90'
EASTING = 1189328.51'
ELEVATION = 61.75'
PROJECT BENCHMARK 2: 8BM2
5/8" IRON ROD WITH CAP LOCATED APPROXIMATELY 10' NORTHWEST OF A POWER POLE.
NORTHING = 17068041.42'
EASTING = 1189566.13'
ELEVATION = 61.20'

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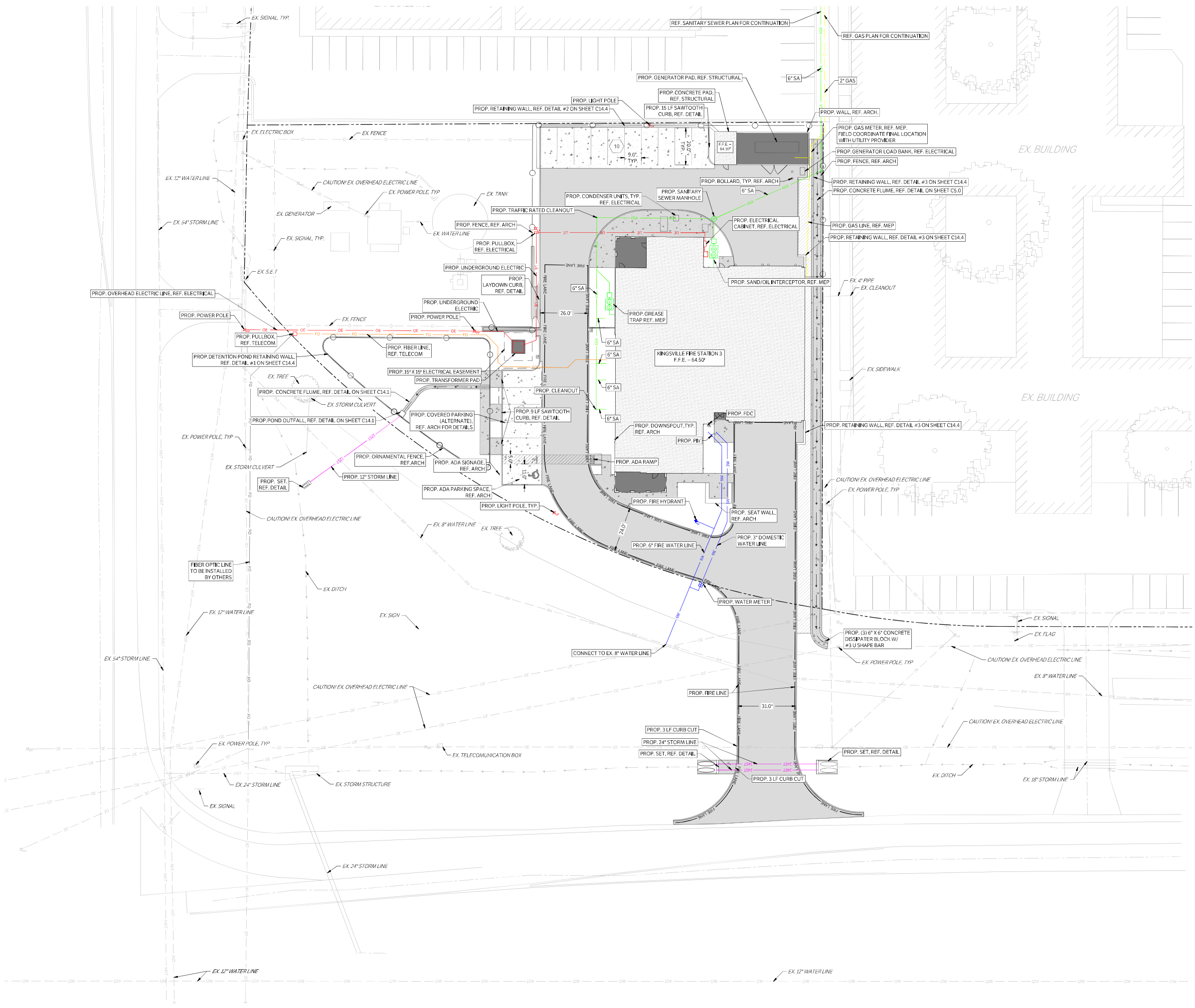
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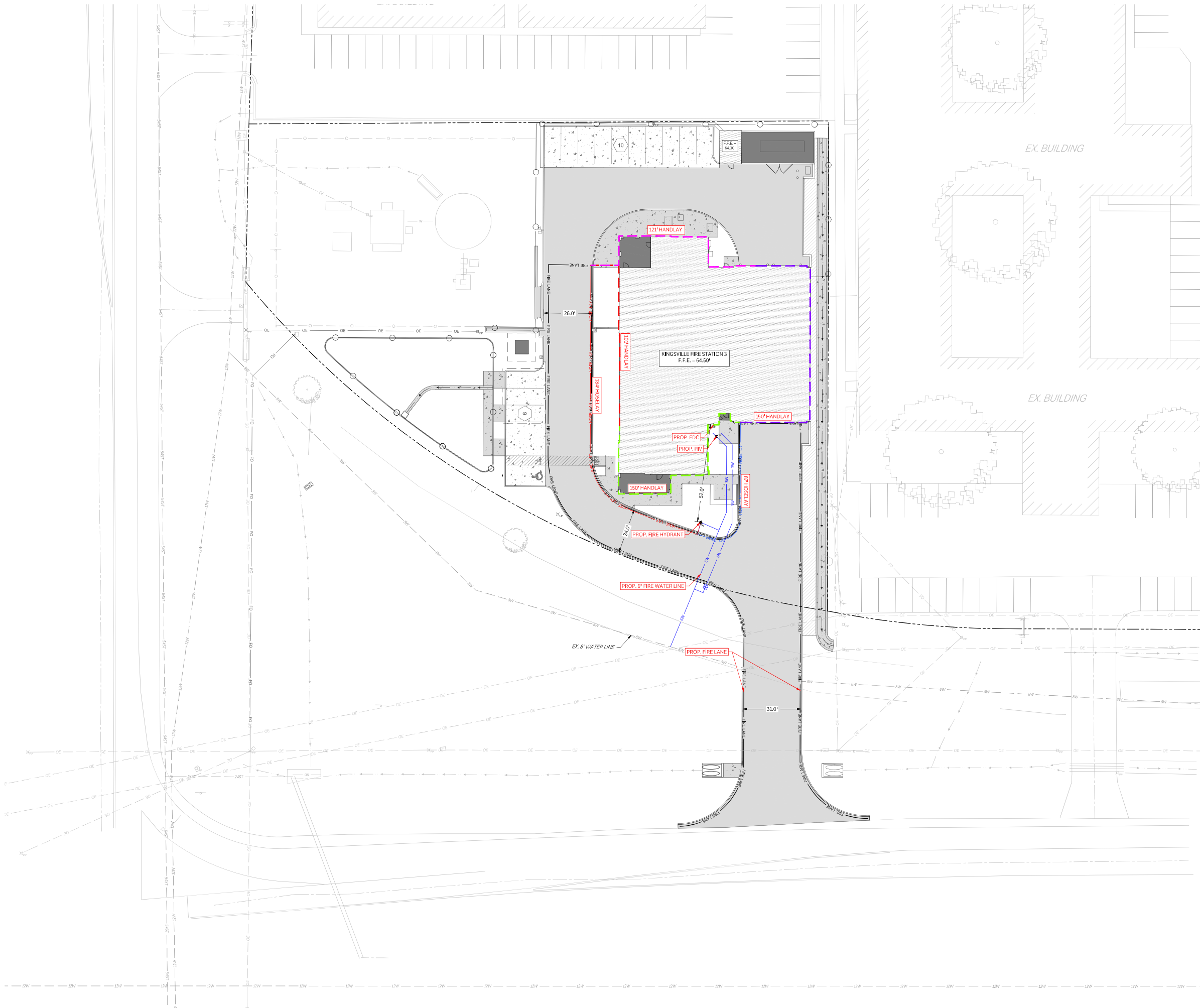
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SITE PLAN

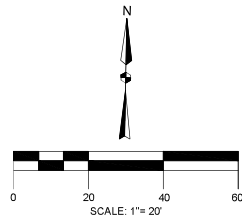


LEGEND	
	PROPOSED 4\"/>
	PROPOSED 7\"/>
	PROPOSED 6\"/>
	PROPOSED 4\"/>
	PROPOSED STRUCTURAL CONCRETE
	PROPOSED GRAVEL
	PROPOSED BUILDING
	EXISTING PAVEMENT EDGE
	PROPERTY LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
	EXISTING CONTOURS
	PROPOSED CONTOURS
	EX, I PROP. STORM LINE
	EX, I PROP. WATER LINE
	EX, I PROP. SANITARY SEWER LINE
	EXISTING THERMALS
	PROPOSED THERMALS
	EX, I PROP. GAS LINE
	EX, I PROP. DATA/TELECOM
	EX, I PROP. UNDERGROUND ELECTRIC
	EX, I PROP. FIBER OPTIC
	EX, I PROP. OVERHEAD ELECTRIC
	EX, I PROP. FIRE HYDRANT
	EX, I PROP. WATER METER
	EX, I PROP. GATE VALVE
	EX, IRRIGATION CONTROL VALVE
	PROP. FIRE DEPARTMENT CONNECTION
	PROP. POST INDICATOR VALVE
	PROP. HOSE LAY
	EX, I PROP. SANITARY SEWER MANHOLE
	EX, I PROP. SANITARY SEWER CLEANOUT
	EX, STORM SEWER MANHOLE
	PROP. STORM SEWER CURB INLET
	EX, I PROP. LIGHT POLE
	PROPOSED PUBLIC ACCESS EASEMENT
	PROPOSED UTILITY EASEMENT

ISSUE FOR BID



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PROJECT BENCHMARK 1: 8BM1

NGS MONUMENT LOCATED APPROXIMATELY 34' NORTHWEST OF A POWER POLE.

NORTHING = 17067986.90'
EASTING = 1189328.51'
ELEVATION = 61.75'

PROJECT BENCHMARK 2: 8BM2

5/8" IRON ROD WITH CAP LOCATED APPROXIMATELY 10' NORTHWEST OF A POWER POLE.

NORTHING = 17068041.42'
EASTING = 1189566.13'
ELEVATION = 61.20'

LEGEND	
	FIRE LANE WITH RED STRIPES CONTAINING THE WORDING "FIRE LANE - NO PARKING - TOW AWAY", PAINTED IN 4" WHITE LETTERS
	PROPOSED BUILDING
	HOSE LAY PATH
	150' SPRAY RADIUS

ISSUE FOR BID

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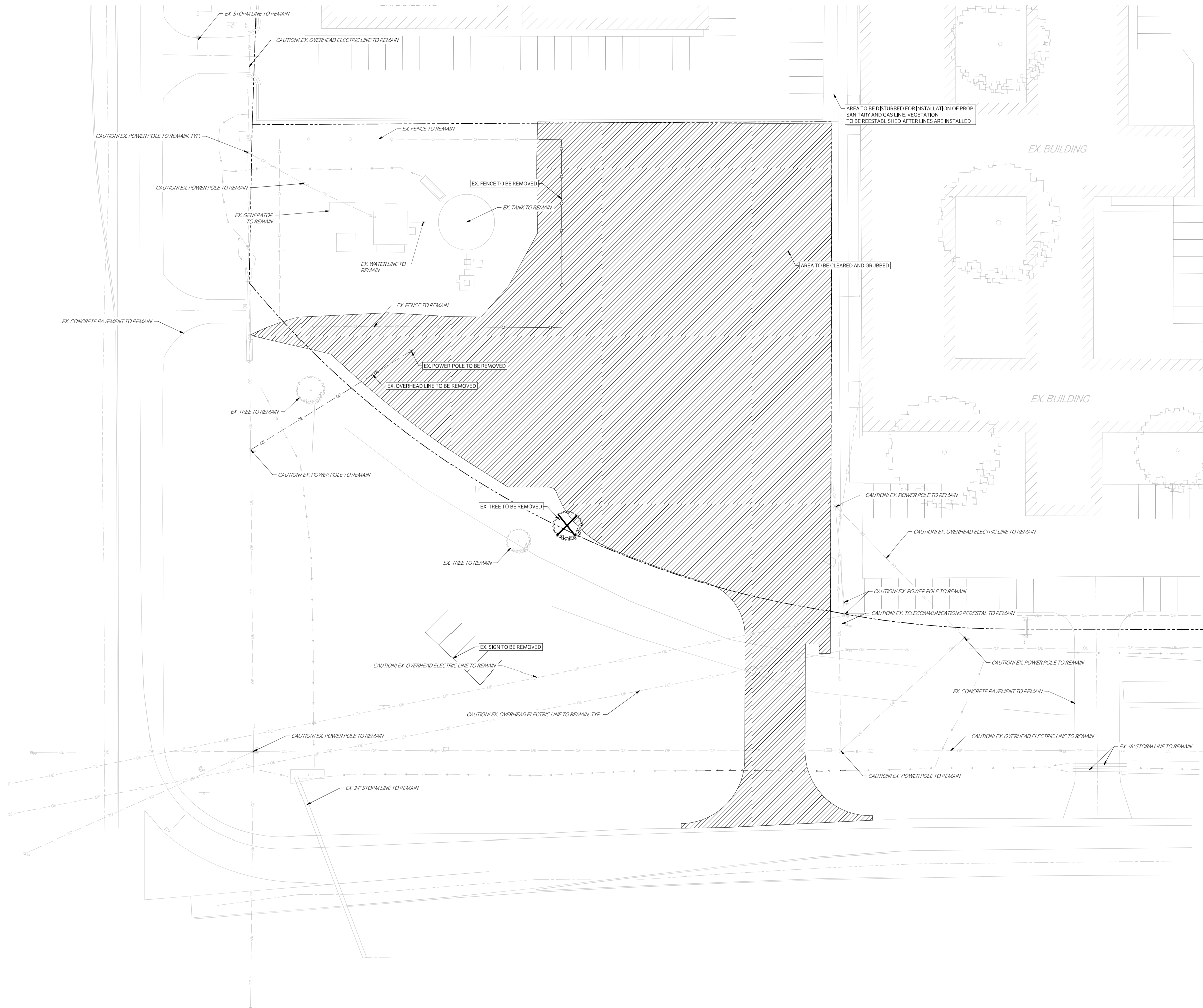
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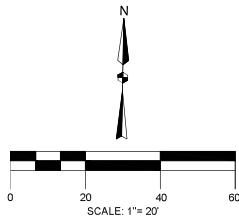
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KINGSVILLE, TX 78363

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C1.1
FIRE SITE PLAN



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PROJECT BENCHMARK 1: 8BM1

NGS MONUMENT LOCATED APPROXIMATELY 34' NORTHWEST OF A POWER POLE.

NORTHING = 17067986.90'
EASTING = 1189328.51'
ELEVATION = 61.75'

PROJECT BENCHMARK 2: 8BM2

5/8\"/>

NORTHING = 17068041.42'
EASTING = 1189566.13'
ELEVATION = 61.20'

LEGEND	
	EX. TREE TO REMAIN
	EX. TREE TO BE REMOVED

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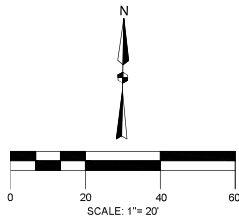
KINGSVILLE FIRE STATION 3
2602 S 6TH STREET
KINGSVILLE, TX 78363

NO.	REVISION	DATE

C2.0
DEMOLITION PLAN

ISSUE FOR BID

CAUTION: CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.
CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.



PROJECT BENCHMARK 1: 8BM1
NGS MONUMENT LOCATED APPROXIMATELY 34' NORTHWEST OF A POWER POLE.

NORTHING = 17067986.90'
EASTING = 1189328.51'
ELEVATION = 61.75'

PROJECT BENCHMARK 2: 8BM2
5/8" IRON ROD WITH CAP LOCATED APPROXIMATELY 10' NORTHWEST OF A POWER POLE.

NORTHING = 17068041.42'
EASTING = 1189566.13'
ELEVATION = 61.20'

BROWN REYNOLDS WATFORD ARCHITECTS
175 CENTURY SQUARE DRIVE
SUITE 330
DALLAS, TEXAS 75240
972-904-1791
WWW.BRWARCH.COM



GESSNER ENGINEERING
Corporate Office
401 West 26th Street
Bryan, Texas 77803
www.gessnerengineering.com
FIRM REGISTRATION NUMBER:
TYPE E-7451, TPA-SC-009390

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BRW PROJECT NUMBER: [blank] SB

KINGSVILLE FIRE STATION 3
2602 S 6TH STREET
KINGSVILLE, TX 78363

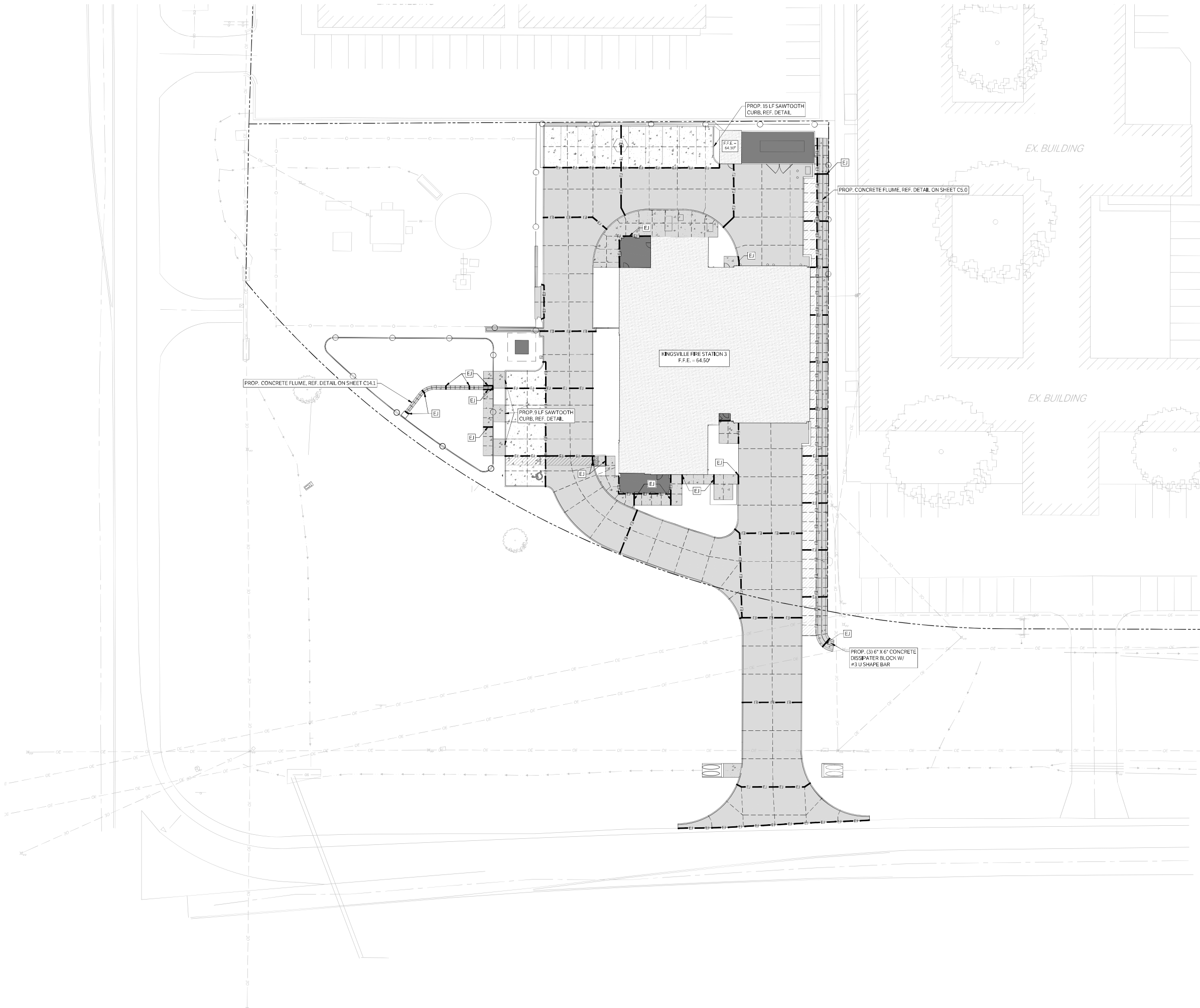
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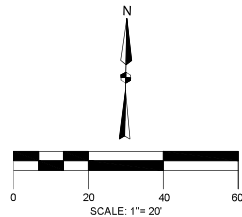
DIMENSION PLAN

LEGEND	
	PROPOSED 4" CONCRETE SIDEWALK
	PROPOSED 7" CONCRETE PAVEMENT
	PROPOSED 6" CONCRETE PAVEMENT
	PROPOSED 4" SLOPED CONCRETE PAVEMENT (REF. DETAIL)
	PROPOSED STRUCTURAL CONCRETE
	PROPOSED GRAVEL
	PROPOSED BUILDING
	EXISTING PAVEMENT EDGE
	PROPERTY LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
	EXISTING CONTOURS
	PROPOSED CONTOURS
	EX. J. PROP. STORM LINE
	EX. J. PROP. WATER LINE
	EX. J. PROP. SANITARY SEWER LINE
	EXISTING THERMALS
	PROPOSED THERMALS
	EX. J. PROP. GAS LINE
	EX. J. PROP. DATA/TELECOM
	EX. J. PROP. UNDERGROUND ELECTRIC
	EX. J. PROP. FIBER OPTIC
	EX. J. PROP. OVERHEAD ELECTRIC
	EX. J. PROP. FIRE HYDRANT
	EX. J. PROP. WATER METER
	EX. J. PROP. GATE VALVE
	EX. IRRIGATION CONTROL VALVE
	PROP. FIRE DEPARTMENT CONNECTION
	PROP. POST INDICATOR VALVE
	PROP. HOSE LAY
	EX. J. PROP. SANITARY SEWER MANHOLE
	EX. J. PROP. SANITARY SEWER CLEANOUT
	EX. STORM SEWER MANHOLE
	PROP. STORM SEWER CURB INLET
	EX. J. PROP. LIGHT POLE
	PROPOSED PUBLIC ACCESS EASEMENT
	PROPOSED UTILITY EASEMENT

ISSUE FOR BID



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PROJECT BENCHMARK 1: ●BM1

NGS MONUMENT LOCATED APPROXIMATELY 34' NORTHWEST OF A POWER POLE.

NORTHING = 17067986.90'
EASTING = 1189328.51'
ELEVATION = 61.75'

PROJECT BENCHMARK 2: ●BM2

5/8" IRON ROD WITH CAP LOCATED APPROXIMATELY 10' NORTHWEST OF A POWER POLE.

NORTHING = 17068041.42'
EASTING = 1189566.13'
ELEVATION = 61.20'

LEGEND	
	EXISTING PAVEMENT EDGE
	CONTROL JOINT
	EXPANSION JOINT
	PROPOSED 4" CONCRETE SIDEWALK
	PROPOSED 7" CONCRETE PAVEMENT
	PROPOSED 6" CONCRETE PAVEMENT
	PROPOSED STRUCTURAL CONCRETE
	PROPOSED GRAVEL
	PROPOSED 4" SLOPED CONCRETE PAVEMENT (REF. DETAIL)

ISSUE FOR BID

BROWN REYNOLDS WATFORD ARCHITECTS
175 CENTURY SQUARE DRIVE
SUITE 330
KINGSVILLE, TEXAS 77840
979-994-1791
WWW.BRWARCH.COM



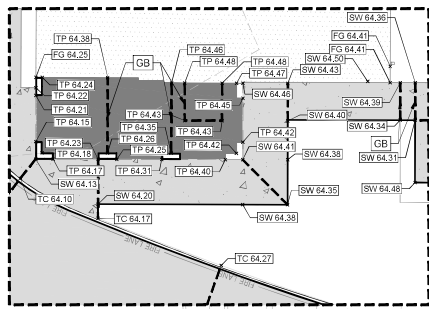
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Corporate Office
401 West 26th Street
Bryan, Texas 77803
www.gessnerengineering.com
FIRM REGISTRATION NUMBER:
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KINGSVILLE FIRE STATION 3
2602 S 6TH STREET
KINGSVILLE, TX 78363

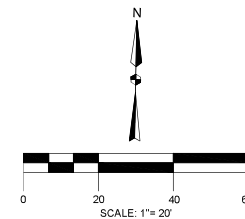
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C4.0
PAVING PLAN



INSET "A"
SCALE 1" = 10'

CAUTION: CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.
CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.



SCALE: 1" = 20'

PROJECT BENCHMARK 1: BM1
NGS MONUMENT LOCATED APPROXIMATELY 34' NORTHWEST OF A POWER POLE.

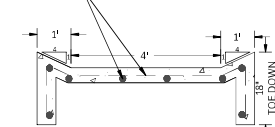
NORTHING = 17067986.90'
EASTING = 1189328.51'
ELEVATION = 61.75'

PROJECT BENCHMARK 2: BM2

5/8" IRON ROD WITH CAP
LOCATED APPROXIMATELY 10' NORTHWEST OF A POWER POLE.

NORTHING = 17068041.42'
EASTING = 1189566.13'
ELEVATION = 61.20'

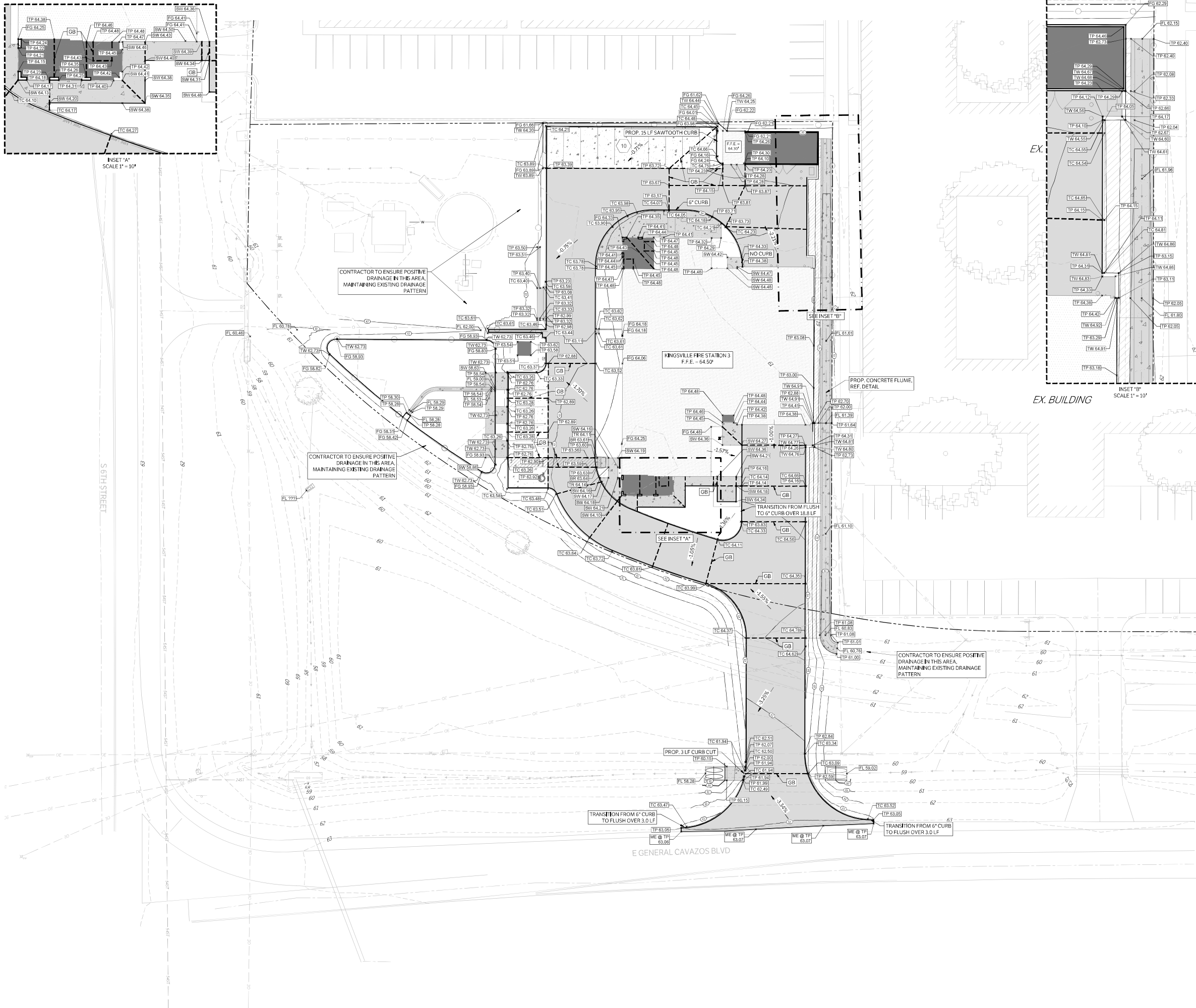
#3 BARS @ 12" O.C.E.W.



28-DAY CONCRETE STRENGTH = 3000 psi

- NOTE:
1. EXPANSION JOINTS AT 60' O.C.
 2. 0.5% MIN. RUNNING SLOPE OF FLUME
 3. PROVIDE TOE DOWN AT FLUME ENDS

CONCRETE FLUME SECTION
NTS



LEGEND

- 340 --- EXISTING CONTOURS
- (340) --- PROPOSED CONTOURS
- PROPERTY LINE
- PROPOSED SWALE WITH DIRECTION OF FLOW ARROWS
- PROPOSED RETAINING WALL
- BR PROPOSED FINISHED GRADE AT BOTTOM OF RAMP
- BS PROPOSED FINISHED GRADE AT BOTTOM OF STAIR
- BW PROPOSED FINISHED GRADE AT BASE OF WALL
- FG PROPOSED FINISHED GRADE ELEVATION
- FL PROPOSED FLOWLINE ELEVATION
- G PROPOSED GUTTER FLOWLINE ELEVATION
- GB PROPOSED GRADE BREAK
- JB PROPOSED TOP OF JUNCTION BOX ELEVATION
- ME @ SW MATCH EXISTING SIDEWALK ELEVATION***
- ME @ TC MATCH EXISTING TOP OF CURB ELEVATION***
- ME @ TP MATCH EXISTING AT TOP OF PAVEMENT ELEVATION***
- SW PROPOSED TOP OF PAVEMENT AT SIDEWALK ELEVATION
- TC PROPOSED TOP OF CURB ELEVATION
- TG PROPOSED TOP OF GRATE ELEVATION
- TP PROPOSED TOP OF PAVEMENT ELEVATION
- TR PROPOSED TOP OF RAMP ELEVATION
- TW PROPOSED TOP OF WALL ELEVATION

***CONTACT GESSNER ENGINEERING WITH ANY DISCREPANCIES BETWEEN THE ME ELEVATION CALLED OUT ON THE PLANS AND FIELD CONDITIONS

BROWN REYNOLDS WATFORD ARCHITECTS
175 CENTURY SQUARE DRIVE
SUITE 350
KINGSVILLE, TEXAS 77840
979-664-1791
WWW.BRWARCH.COM



GESSNER ENGINEERING
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401 West 26th Street
Bryan, Texas 77803
www.gessnerengineering.com
PROFESSIONAL ENGINEER
TYPE E-7-52, TPE-55-003930



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NO.	REVISION	DATE

C5.0

GRADING PLAN

ISSUE FOR BID

Pre (Kingsville)					
AREA A					
COVER TYPE	SURFACE DESCRIPTION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.90	1879.66	0.04	0.04
Grass Cover	Grass Cover > 75%	0.17	63804.94	1.46	0.25
TOTAL			65684.60	1.51	0.29
				C	0.19

Pre (TxDOT)					
AREA A					
COVER TYPE	SURFACE DESCRIPTION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.90	1879.66	0.04	0.04
Grass Cover	Grass Cover > 75%	0.25	63804.94	1.46	0.37
TOTAL			65684.60	1.51	0.41
				C	0.27

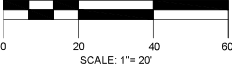
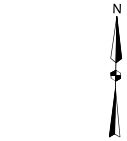
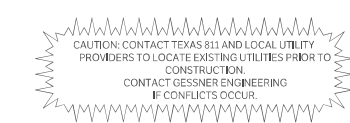


Pre (Kingsville)	
Area A	
C	0.19
Area (ac)	1.51
Flow Length (ft)	356.24
SCS Sheet Flow (ft) Grass	100.00
Slope (%)	1.610
Ku	3.28
k	0.213
V	0.89
Flow Time (min)	1.88
SCS Shallow Concentrated Flow (ft) Grass	256.24
Slope (%)	0.10
Ku	3.280
k	0.491
V	0.509
Flow Time (min)	8.39
Time of Concentration (hr)	0.167
Required min TOC of 0.167 hr	

PRE DEVELOPMENT PEAK RUNOFF (KINGSVILLE)								
AREA	SIZE (AC)	C	TC (HR)	2 YR (CFS)	10 YR (CFS)	25 YR (CFS)	50 YR (CFS)	100 YR (CFS)
A	1.51	0.19	0.170	1.79	2.49	2.88	3.17	3.26

Pre (TxDOT)	
Area A	
C	0.27
Area (ac)	1.51
Flow Length (ft)	356.24
SCS Sheet Flow (ft)	100.00
Slope (%)	1.610
Manning's Roughness	0.15
Flow Time (min)	9.22
SCS Shallow Concentrated Flow (ft) Unpaved	256.24
Slope (%)	0.100
Velocity (ft/s)	0.510
Flow Time (min)	8.37
Time of Concentration (hr)	0.29
Required min TOC of 0.167 hr	

PRE DEVELOPMENT PEAK RUNOFF								
AREA	SIZE (AC)	C	TC (HR)	2 YR (CFS)	10 YR (CFS)	25 YR (CFS)	50 YR (CFS)	100 YR (CFS)
A	1.51	0.27	0.290	1.59	2.44	2.95	3.36	3.78



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PROJECT BENCHMARK 2: 8BM2

5/8" IRON ROD WITH CAP LOCATED APPROXIMATELY 10' NORTHWEST OF A POWER POLE.

NORTHING = 17068041.42'
EASTING = 1189566.13'
ELEVATION = 61.20'

BROWN REYNOLDS WATFORD ARCHITECTS
175 CENTURY SQUARE DRIVE
SUITE 300
KINGSVILLE, TEXAS 77840
979-904-1791
WWW.BRWARCH.COM



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KINGSVILLE FIRE STATION 3
2402 S 6TH STREET
KINGSVILLE, TX 78363

REVISION	DATE
NO.	

C6.0

PRE DAM

LEGEND

FEMA FLOOD PLAIN BOUNDARY

DRAINAGE AREA BOUNDARY

DRAINAGE AREA LABEL AND FLOW DIRECTION

PROPERTY LINE

EXISTING CONTOURS

PROPOSED CONTOURS

FLOW PATH

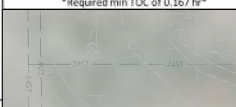
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Post (Kingsville)					
AREA A1					
COVER TYPE	HYDROLOGIC CONDITION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.90	5479.74	0.13	0.11
Grass Cover	Grass Cover > 75%	0.17	3678.72	0.08	0.01
TOTAL			9158.46	0.21	0.13
				C	0.61
AREA A2					
COVER TYPE	HYDROLOGIC CONDITION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.90	32832.58	0.75	0.68
Grass Cover	Grass Cover > 75%	0.17	7149.94	0.16	0.03
TOTAL			39982.52	0.92	0.71
				C	0.77
Area A3					
COVER TYPE	HYDROLOGIC CONDITION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.90	0.00	0.00	0.00
Grass Cover	Grass Cover > 75%	0.17	16543.62	0.38	0.06
TOTAL			16543.62	0.38	0.06
				C	0.17

Post (TxDOT)					
AREA A1					
COVER TYPE	HYDROLOGIC CONDITION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.90	5479.74	0.13	0.11
Grass Cover	Grass Cover > 75%	0.25	3678.72	0.08	0.02
		TOTAL	9158.46	0.21	0.13
				C	0.64
AREA A2					
COVER TYPE	HYDROLOGIC CONDITION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.90	32832.58	0.75	0.68
Grass Cover	Grass Cover > 75%	0.25	7149.94	0.16	0.04
		TOTAL	39982.52	0.92	0.72
				C	0.78
Area A3					
COVER TYPE	HYDROLOGIC CONDITION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.90	0.00	0.00	0.00
Grass Cover	Grass Cover > 75%	0.25	16543.62	0.38	0.09
		TOTAL	16543.62	0.38	0.09
				C	0.25

Outfall Rating Curve	
Water Surface Elevation (ft)	Flow (ft³/s)
58.28	0
58.78	0.17
59.28	0.28
59.78	0.36
60.28	0.43
60.78	0.49
61.28	0.54
61.78	1.09
62.28	1.68
62.53	1.88
62.73	4.10

Stage Storage Volume for Detention Pond			
Contour Elevation	Contour Area (SF)	Cumulative Volume (CF)	Cumulative Volume (ACRE-FT)
58.28	0.00	0	0.00
58.50	760.50	85.18	0.00
59.00	3,887.39	1,247.15	0.03
59.50	3,887.39	3,190.84	0.07
60.00	3,887.39	5,134.54	0.12
60.50	3,887.39	7,078.23	0.16
61.00	3,887.39	9,021.93	0.21
61.50	3,887.39	10,965.62	0.25
62.00	3,887.39	12,909.32	0.30
62.50	3,926.66	14,862.83	0.34
62.73	3,926.66	15,765.96	0.36

Post (Kingsville)					
Area A1		Area A2		Area A3	
C	0.61	C	0.77	C	0.17
Area (ac)	0.21	Area (ac)	0.92	Area (ac)	0.38
Flow Length (ft)	294.87	Flow Length (ft)	239.00	Flow Length (ft)	255.14
SCS Sheet Flow (ft) Grass	5.36	SCS Sheet Flow (ft) Paved	99.62	SCS Sheet Flow (ft) Grass	100.00
Slope (%)	1.000	Slope (%)	1.000	Slope (%)	4.000
Ku	3.28	Ku	3.28	Ku	3.28
k	0.21	k	0.62	k	0.21
V	0.69	V	2.03	V	1.40
Flow Time (min)	0.13	Flow Time (min)	0.82	Flow Time (min)	1.19
SCS Channel Flow (ft)	269.13	SCS Shallow Concentrated Flow (ft)	139.38	SCS Shallow Concentrated Flow (ft)	155.14
Slope (%)	0.50	Paved		Paved	
Manning's Roughness	0.01	Slope (%)	0.50	Slope (%)	0.74
Bottom Width (ft)	4.00	Ku	3.280	Ku	3.280
Flow Area (ft^2)	1.30	k	0.62	k	0.49
Wetted Perimeter (ft)	6.10	V	1.436	V	1.385
Velocity (ft/s)	3.33	Flow Time (min)	1.62	Flow Time (min)	1.87
Flow Time (min)	1.28	Time of Concentration (hr)	0.04	Time of Concentration (hr)	0.05
SCS Shallow Concentrated Flow (ft)	20.38	*Required min TOC of 0.167 hr*		*Required min TOC of 0.167 hr*	
Unpaved					
Slope (%)	0.57				
Ku	3.280				
k	0.491				
V	1.216				
Flow Time (min)	0.28				
Time of Concentration (hr)	0.03				
Required min TOC of 0.167 hr					

POST DEVELOPMENT PEAK RUNOFF WITHOUT DETENTION (KINGSVILLE)							
AREA	SIZE (AC)	C	TC (HR)	2 YR (CFS)	10 YR (CFS)	25 YR (CFS)	50 YR (CFS)
A1	0.21	0.61	0.167	0.79	1.10	1.28	1.45
A2	0.92	0.77	0.167	4.39	6.11	7.07	7.79
A3	0.38	0.17	0.167	0.40	0.56	0.65	0.73

PRE VS POST PEAK FLOW (KINGSVILLE)	
PRE (10 YR)	2.49
POST (25 YR)	2.47
DIFFERENCE	-0.02
REQUIRED STORAGE VOLUME (CU. FT.)	10151.3
WSEL (FT.)	61.29
FREEBOARD (FT.)	1.44

PRE VS POST PEAK FLOW (TxDOT)					
STORM YEAR	2 YR (CFS)	10 YR (CFS)	25 YR (CFS)	50 YR (CFS)	100 YR (CFS)
PRE	1.59	2.44	2.95	3.36	3.78
POST	1.50	2.21	2.68	3.18	3.71
DIFFERENCE	-0.09	-0.23	-0.27	-0.18	-0.07
REQUIRED STORAGE VOLUME (CU. FT.)	4598.8	8088.6	10299.5	11048.2	11910.2
WSEL (FT.)	59.86	60.76	61.33	61.52	61.73
FREEBOARD (FT.)	2.87	1.97	1.40	1.21	1.0

POST DEVELOPMENT PEAK RUNOFF WITHOUT DETENTION (TxDOT)								
AREA	SIZE (AC)	C	TC (HR)	2 YR (CFS)	10 YR (CFS)	25 YR (CFS)	50 YR (CFS)	100 YR (CFS)
A1	0.21	0.64	0.167	0.66	1.01	1.22	1.39	1.56
A2	0.92	0.78	0.167	3.54	5.42	6.55	7.44	8.35
A3	0.38	0.25	0.167	0.47	0.71	0.86	0.98	1.10

POST DEVELOPMENT PEAK RUNOFF WITH DETENTION (TxDOT)								
AREA	SIZE (AC)	C	TC (HR)	2 YR (CFS)	10 YR (CFS)	25 YR (CFS)	50 YR (CFS)	100 YR (CFS)
A1	0.21	0.64	0.167	0.66	1.01	1.22	1.39	1.56
A2	0.92	0.78	0.167	0.37	0.49	0.59	0.81	1.05
A3	0.38	0.25	0.167	0.47	0.71	0.86	0.98	1.10

LEGEND	
— — — — —	FEMA FLOOD PLAIN BOUNDARY
- - - - -	DRAINAGE AREA BOUNDARY
⬤ A1	DRAINAGE AREA LABEL AND FLOW DIRECTION
---	PROPERTY LINE
---	EXISTING CONTOURS
---	PROPOSED CONTOURS
---	FLOW PATH

CAUTION: CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.
CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.

N

0 20 40 60
SCALE: 1"= 20'

PROJECT BENCHMARK 1: 8BM1
NGS MONUMENT LOCATED APPROXIMATELY 34' NORTHWEST OF A POWER POLE.
NORTHING = 17067986.90'
EASTING = 1189328.51'
ELEVATION = 61.75'

PROJECT BENCHMARK 2: 8BM2
5/8" IRON ROD WITH CAP LOCATED APPROXIMATELY 12' NORTHWEST OF A POWER POLE.
NORTHING = 17068041.42'
EASTING = 1189566.13'
ELEVATION = 61.20'

BROWN REYNOLDS WATFORD ARCHITECTS
175 CENTURY SQUARE DRIVE
SUITE 300
KINGSVILLE, TEXAS 77840
979-994-1791
WWW.BRWARCH.COM

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STATE OF TEXAS
ANDREW A. LANGE
118770
Professional Engineer
4/14/2025

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TYPE E-452, 18435-039390

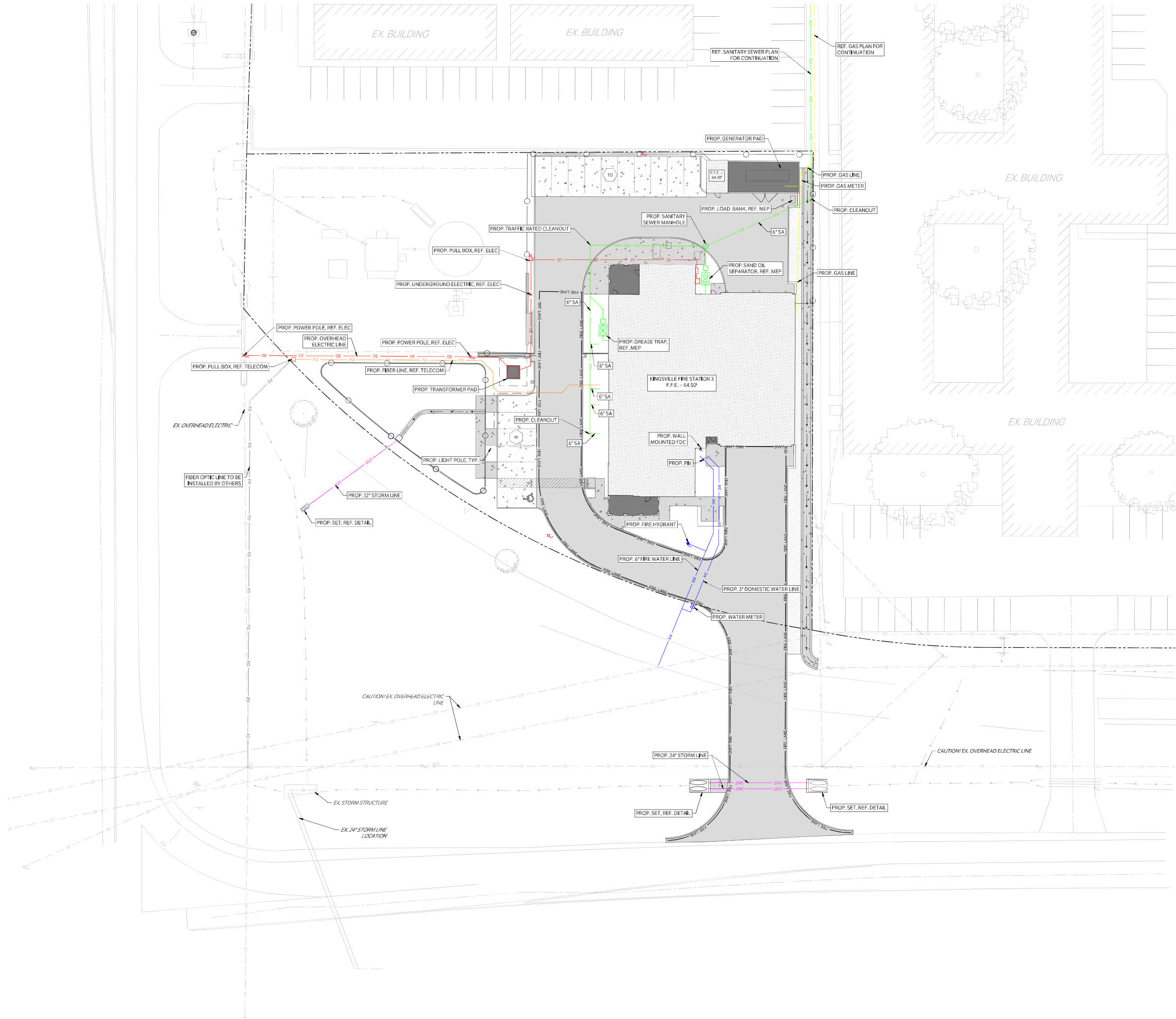
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DRAWN BY: MH
CHECKED BY: SB
BRW PROJECT NO.

KINGSVILLE FIRE STATION 3
2602 S 6TH STREET
KINGSVILLE, TX 78363

NO.	REVISION	DATE

C6.1
POST DAM

ISSUE FOR BID



CAUTION: CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.
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0 20 40 60
SCALE: 1"= 20'

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ELEVATION = 61.75'

PROJECT BENCHMARK 2: 8BM2
5/8" IRON ROD WITH CAP LOCATED APPROXIMATELY 10' NORTHWEST OF A POWER POLE.
NORTHING = 17068041.42'
EASTING = 1189566.13'
ELEVATION = 61.20'

LEGEND	
	PROPOSED 4" CONCRETE SIDEWALK
	PROPOSED 7" CONCRETE PAVEMENT
	PROPOSED 6" CONCRETE PAVEMENT
	PROPOSED 4" SLOPED CONCRETE PAVEMENT (REF. DETAIL)
	PROPOSED STRUCTURAL CONCRETE
	PROPOSED GRAVEL
	PROPOSED BUILDING
	EXISTING PAVEMENT EDGE
	PROPERTY LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
	EXISTING CONTOURS
	PROPOSED CONTOURS
	EX. J. PROP. STORM LINE
	EX. J. PROP. WATER LINE
	EX. J. PROP. SANITARY SEWER LINE
	EXISTING THERMALS
	PROPOSED THERMALS
	EX. J. PROP. GAS LINE
	EX. J. PROP. DATA/TELECOM
	EX. J. PROP. UNDERGROUND ELECTRIC
	EX. J. PROP. FIBER OPTIC
	EX. J. PROP. OVERHEAD ELECTRIC
	EX. J. PROP. FIRE HYDRANT
	EX. J. PROP. WATER METER
	EX. J. PROP. GATE VALVE
	EX. IRRIGATION CONTROL VALVE
	PROP. FIRE DEPARTMENT CONNECTION
	PROP. POST INDICATOR VALVE
	PROP. HOSE LAY
	EX. J. PROP. SANITARY SEWER MANHOLE
	EX. J. PROP. SANITARY SEWER CLEANOUT
	EX. STORM SEWER MANHOLE
	PROP. STORM SEWER CURB INLET
	EX. J. PROP. LIGHT POLE
	PROPOSED PUBLIC ACCESS EASEMENT
	PROPOSED UTILITY EASEMENT

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STATE OF TEXAS
ANDREW A. LANGE
118770
Professional Engineer
4/14/2025

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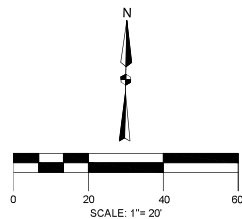
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KINGSVILLE, TX 78363

NO.	REVISION	DATE

C7.0
OVERALL UTILITY PLAN

ISSUE FOR BID

CAUTION: CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.
CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.



PROJECT BENCHMARK 1: ●BM1
NGS MONUMENT LOCATED
APPROXIMATELY 34'
NORTHWEST OF A POWER
POLE.

NORTHING = 17067986.90'
EASTING = 1189328.51'
ELEVATION = 61.75'

PROJECT BENCHMARK 2: ●BM2

5/8" IRON ROD WITH CAP
LOCATED APPROXIMATELY
12' NORTHWEST OF A
POWER POLE.

NORTHING = 17068041.42'
EASTING = 1189566.13'
ELEVATION = 61.20'



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Bryan, Texas 77803
www.gessnerengineering.com
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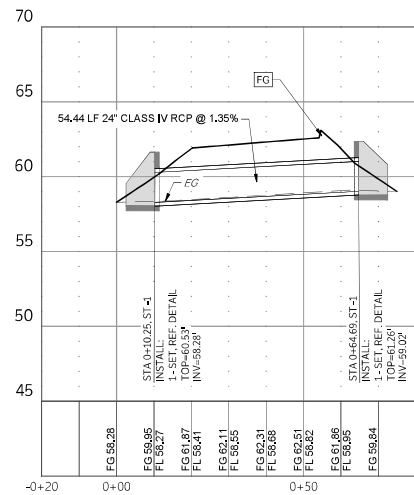
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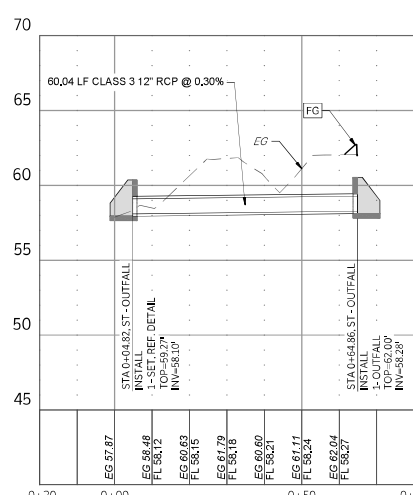
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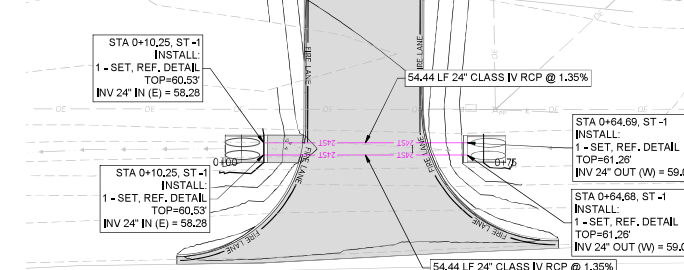
LEGEND	
	PROPOSED 4" CONCRETE SIDEWALK
	PROPOSED 7" CONCRETE PAVEMENT
	PROPOSED 6" CONCRETE PAVEMENT
	PROPOSED 4" SLOPED CONCRETE PAVEMENT (REF. DETAIL)
	PROPOSED STRUCTURAL CONCRETE
	PROPOSED GRAVEL
	PROPOSED BUILDING
	EXISTING PAVEMENT EDGE
	PROPERTY LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
	EXISTING CONTOURS
	PROPOSED CONTOURS
	EX. PROP. STORM LINE
	EX. PROP. WATER LINE
	EX. PROP. SANITARY SEWER LINE
	EXISTING THERMALS
	PROPOSED THERMALS
	EX. PROP. GAS LINE
	EX. PROP. DATA/TELECOM
	EX. PROP. UNDERGROUND ELECTRIC
	EX. PROP. FIBER OPTIC
	EX. PROP. OVERHEAD ELECTRIC
	EX. PROP. FIRE HYDRANT
	EX. PROP. WATER METER
	EX. PROP. GATE VALVE
	EX. IRRIGATION CONTROL VALVE
	PROP. FIRE DEPARTMENT CONNECTION
	PROP. POST INDICATOR VALVE
	PROP. HOSE LAY
	EX. PROP. SANITARY SEWER MANHOLE
	EX. PROP. SANITARY SEWER CLEANOUT
	EX. STORM SEWER MANHOLE
	PROP. STORM SEWER CURB INLET
	EX. PROP. LIGHT POLE
	PROPOSED PUBLIC ACCESS EASEMENT
	PROPOSED UTILITY EASEMENT



ST-1
SCALE: 1"=20' H, 1"=5' V



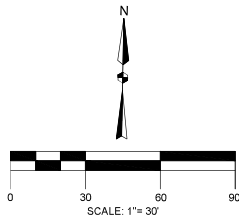
ST-OUTFALL
SCALE: 1"=20' H, 1"=5' V



ISSUE FOR BID

STORM PLAN

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PROJECT BENCHMARK 1: 8BM1

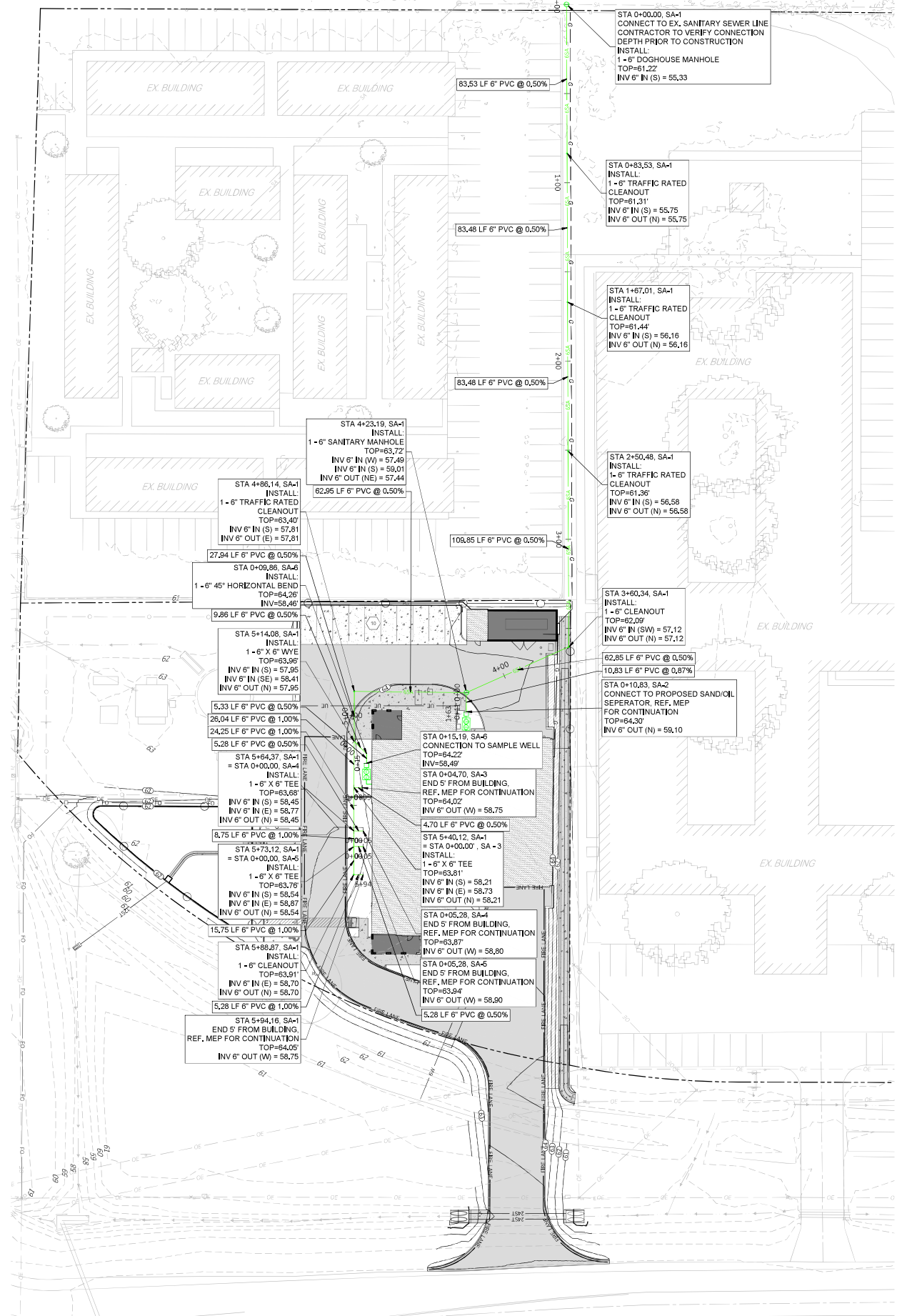
NGS MONUMENT LOCATED APPROXIMATELY 34' NORTHWEST OF A POWER POLE.

NORTHING = 17067986.90'
EASTING = 1189328.51'
ELEVATION = 61.75'

PROJECT BENCHMARK 2: 8BM2

5/8" IRON ROD WITH CAP LOCATED APPROXIMATELY 10' NORTHWEST OF A POWER POLE.

NORTHING = 17068041.42'
EASTING = 1189566.13'
ELEVATION = 61.20'



LEGEND	
	PROPOSED 4" CONCRETE SIDEWALK
	PROPOSED 7" CONCRETE PAVEMENT
	PROPOSED 6" CONCRETE PAVEMENT
	PROPOSED 4" SLOPED CONCRETE PAVEMENT (REF. DETAIL)
	PROPOSED STRUCTURAL CONCRETE
	PROPOSED GRAVEL
	PROPOSED BUILDING
	EXISTING PAVEMENT EDGE
	PROPERTY LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
	EXISTING CONTOURS
	PROPOSED CONTOURS
	EX. J. PROP. STORM LINE
	EX. J. PROP. WATER LINE
	EX. J. PROP. SANITARY SEWER LINE
	EXISTING THERMALS
	PROPOSED THERMALS
	EX. J. PROP. GAS LINE
	EX. J. PROP. DATA/TELECOM
	EX. J. PROP. UNDERGROUND ELECTRIC
	EX. J. PROP. FIBER OPTIC
	EX. J. PROP. OVERHEAD ELECTRIC
	EX. J. PROP. FIRE HYDRANT
	EX. J. PROP. WATER METER
	EX. J. PROP. GATE VALVE
	EX. IRRIGATION CONTROL VALVE
	PROP. FIRE DEPARTMENT CONNECTION
	PROP. POST INDICATOR VALVE
	PROP. HOSE LAY
	EX. J. PROP. SANITARY SEWER MANHOLE
	EX. J. PROP. SANITARY SEWER CLEANOUT
	EX. STORM SEWER MANHOLE
	PROP. STORM SEWER CURB INLET
	EX. J. PROP. LIGHT POLE
	PROPOSED PUBLIC ACCESS EASEMENT
	PROPOSED UTILITY EASEMENT

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STATE OF TEXAS
ANDREW A. LANGE
118770
Andrew A. Lange
4/14/2025

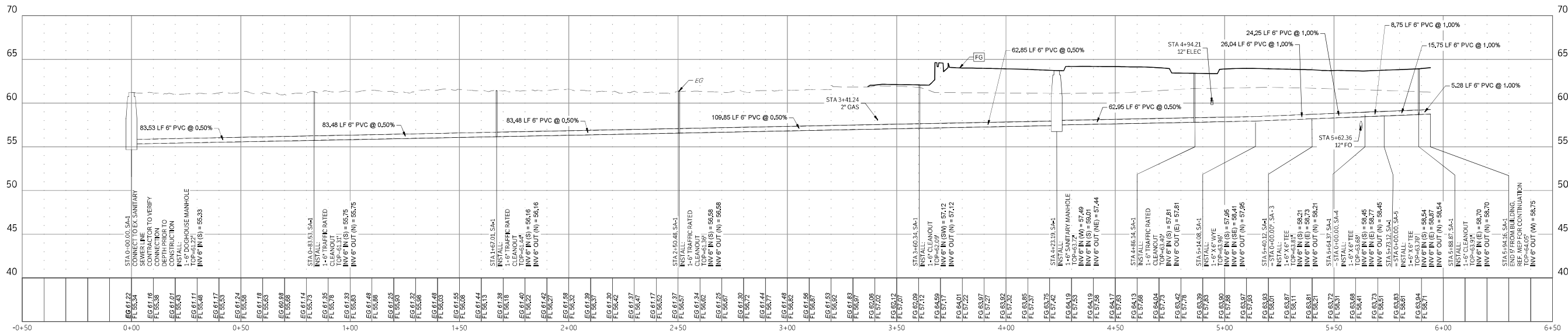
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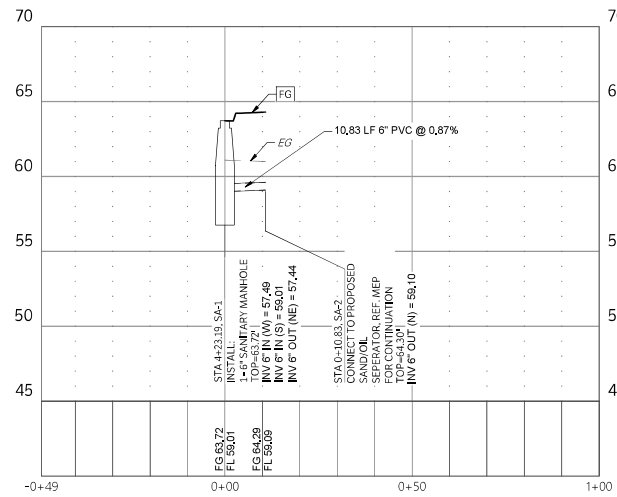
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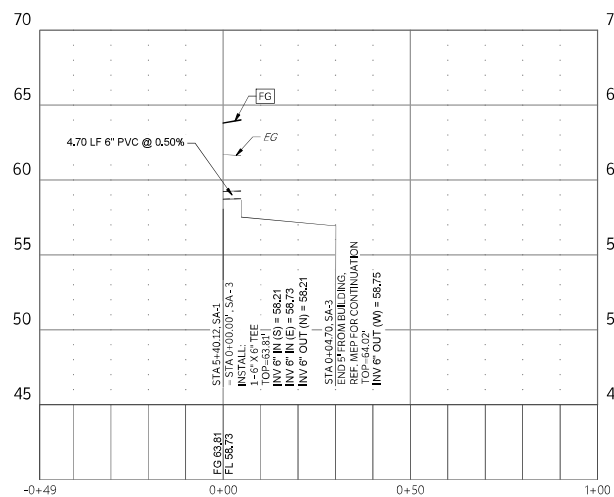
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SANITARY PLAN



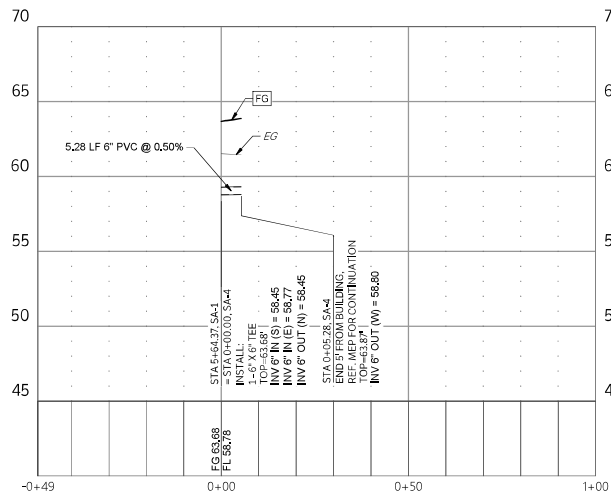
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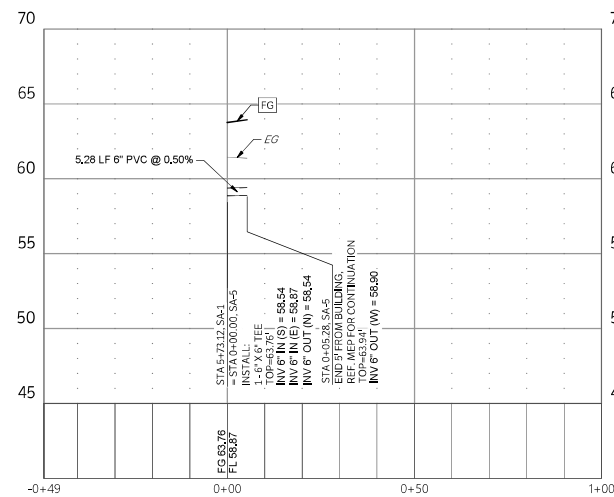
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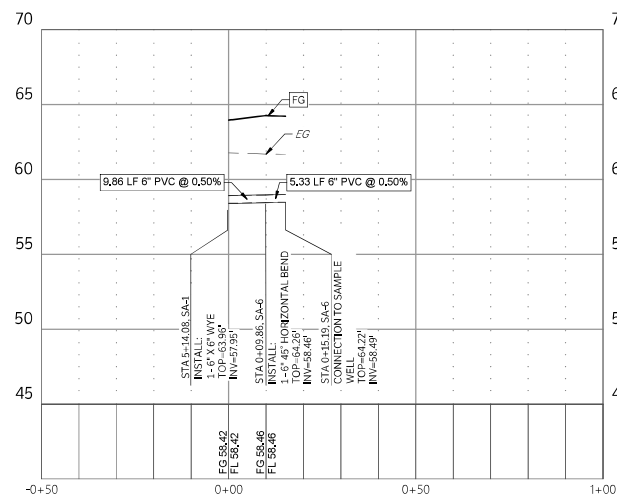
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SA-4
SCALE: 1"=20' H, 1"=5' V



SA-5
SCALE: 1"=20' H, 1"=5' V



SA-6
SCALE: 1"=20' H, 1"=5' V



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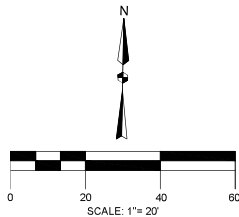
NO.	REVISION	DATE

C9.1

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SANITARY PROFILES

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CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.



PROJECT BENCHMARK 1: 8BM1
NGS MONUMENT LOCATED APPROXIMATELY 34' NORTHWEST OF A POWER POLE.

NORTHING = 17067986.90'
EASTING = 1189328.51'
ELEVATION = 61.75'

PROJECT BENCHMARK 2: 8BM2

5/8" IRON ROD WITH CAP LOCATED APPROXIMATELY 10' NORTHWEST OF A POWER POLE.

NORTHING = 17068041.42'
EASTING = 1189566.13'
ELEVATION = 61.20'

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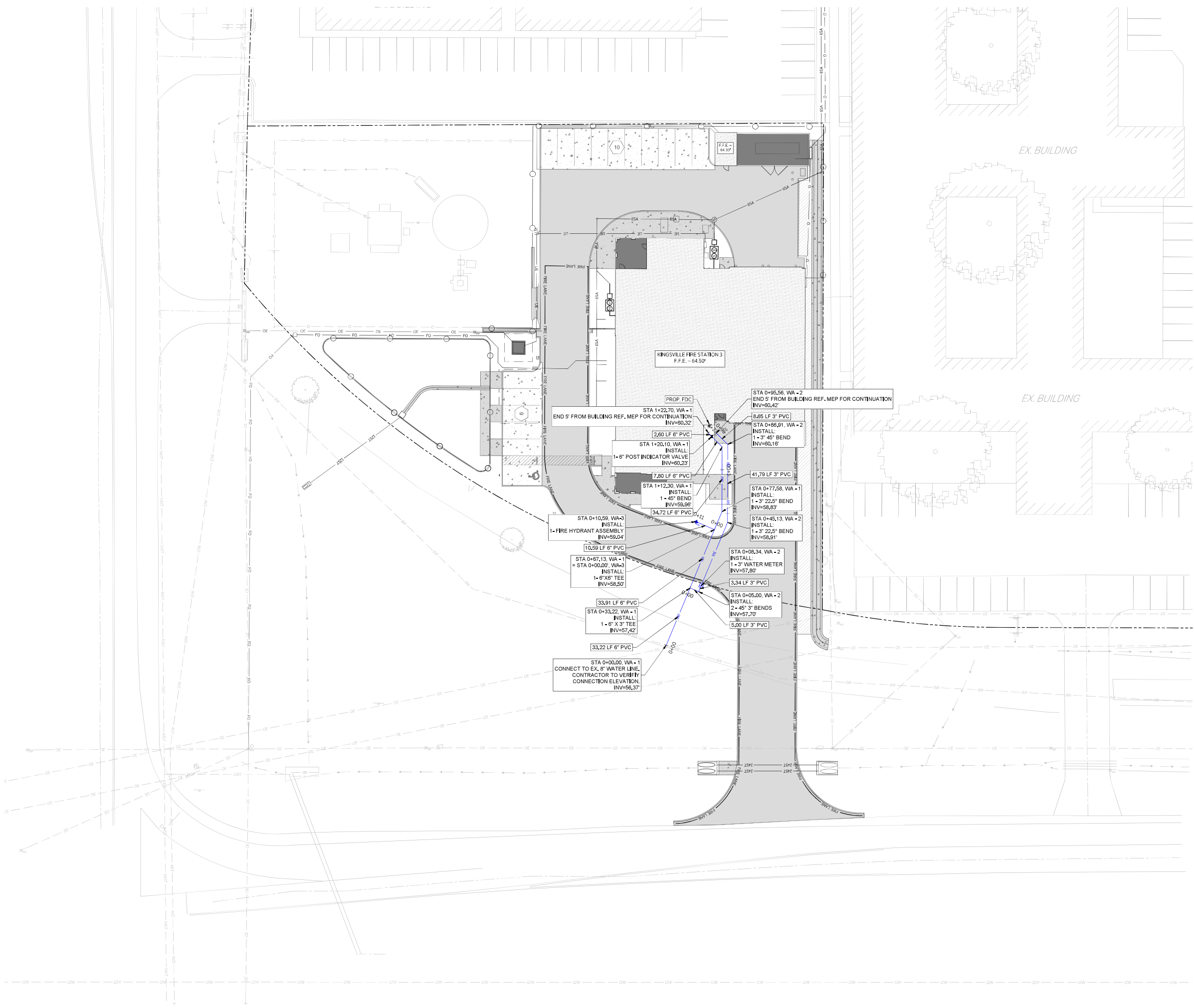
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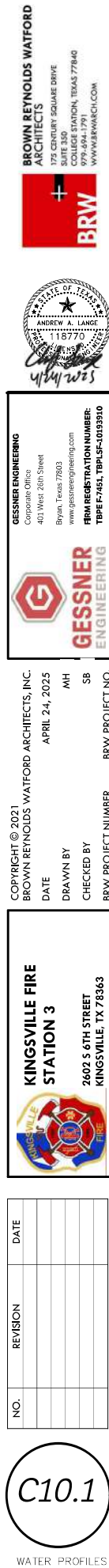
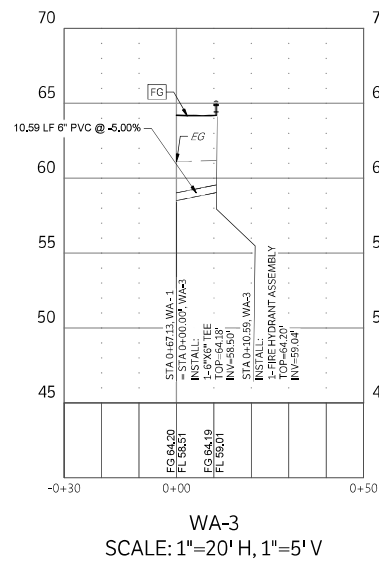
NO.	REVISION	DATE

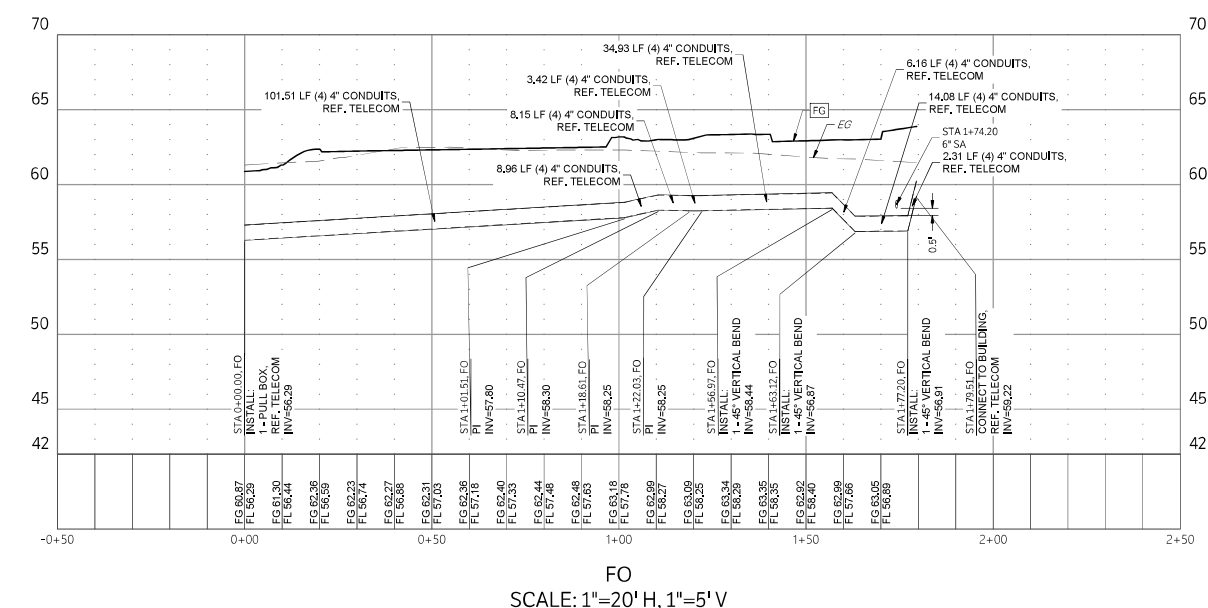
C10.0
WATER PLAN



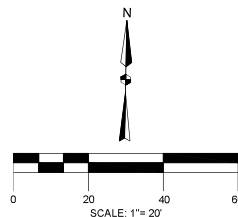
LEGEND	
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	PROPOSED 7\"/>
	PROPOSED 6\"/>
	PROPOSED 4\" SLOPED CONCRETE PAVEMENT (REF. DETAIL)
	PROPOSED STRUCTURAL CONCRETE
	PROPOSED GRAVEL
	PROPOSED BUILDING
	FEMA FLOOD PLAIN BOUNDARY
	EXISTING PAVEMENT EDGE
	PROPERTY LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
	EXISTING CONTOURS
	PROPOSED CONTOURS
	EX. PROP. STORM LINE
	EX. PROP. WATER LINE
	EX. PROP. SANITARY SEWER LINE
	EXISTING THERMALS
	PROPOSED THERMALS
	EX. PROP. GAS LINE
	EX. PROP. DATA/TELECOM
	EX. PROP. UNDERGROUND ELECTRIC
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	EX. PROP. OVERHEAD ELECTRIC
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	EX. PROP. WATER METER
	EX. PROP. GATE VALVE
	EX. IRRIGATION CONTROL VALVE
	PROP. FIRE DEPARTMENT CONNECTION
	PROP. POST INDICATOR VALVE
	PROP. HOSE LAY
	EX. PROP. SANITARY SEWER MANHOLE
	EX. PROP. SANITARY SEWER CLEANOUT
	EX. PROP. STORM SEWER MANHOLE
	EX. PROP. STORM SEWER CURB INLET
	EX. PROP. LIGHT POLE
	PROPOSED PUBLIC ACCESS EASEMENT
	PROPOSED UTILITY EASEMENT

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CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.



PROJECT BENCHMARK 1: BM1
NGS MONUMENT LOCATED APPROXIMATELY 34' NORTHWEST OF A POWER POLE.

NORTHING = 17067986.90'
EASTING = 1189328.51'
ELEVATION = 61.75'

PROJECT BENCHMARK 2: BM2

5/8" IRON ROD WITH CAP LOCATED APPROXIMATELY 10' NORTHWEST OF A POWER POLE.

NORTHING = 17068041.42'
EASTING = 1189566.13'
ELEVATION = 61.20'

NOTES:

1. CONTRACTOR TO COORDINATE GAS CONNECTION TO EXISTING GAS LINE WITH GAS PROVIDER PRIOR TO INSTALLATION.
CENTERPOINT CONTACT INFORMATION:
TELEPHONE: 956-286-4563
EMAIL: RAFAEL.LOZANO@CENTERPOINTENERGY.COM

LEGEND	
	PROPOSED 4" CONCRETE SIDEWALK
	PROPOSED 7" CONCRETE PAVEMENT
	PROPOSED 6" CONCRETE PAVEMENT
	PROPOSED 4" SLOPED CONCRETE PAVEMENT (REF. DETAIL)
	PROPOSED STRUCTURAL CONCRETE
	PROPOSED GRAVEL
	PROPOSED BUILDING
	EXISTING PAVEMENT EDGE
	PROPERTY LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
	EXISTING CONTOURS
	PROPOSED CONTOURS
	EX. PROP. STORM LINE
	EX. PROP. WATER LINE
	EX. PROP. SANITARY SEWER LINE
	EXISTING THERMALS
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	PROP. POST INDICATOR VALVE
	PROP. HOSE LAY
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	EX. STORM SEWER MANHOLE
	PROP. STORM SEWER CURB INLET
	EX. PROP. LIGHT POLE
	PROPOSED PUBLIC ACCESS EASEMENT
	PROPOSED UTILITY EASEMENT

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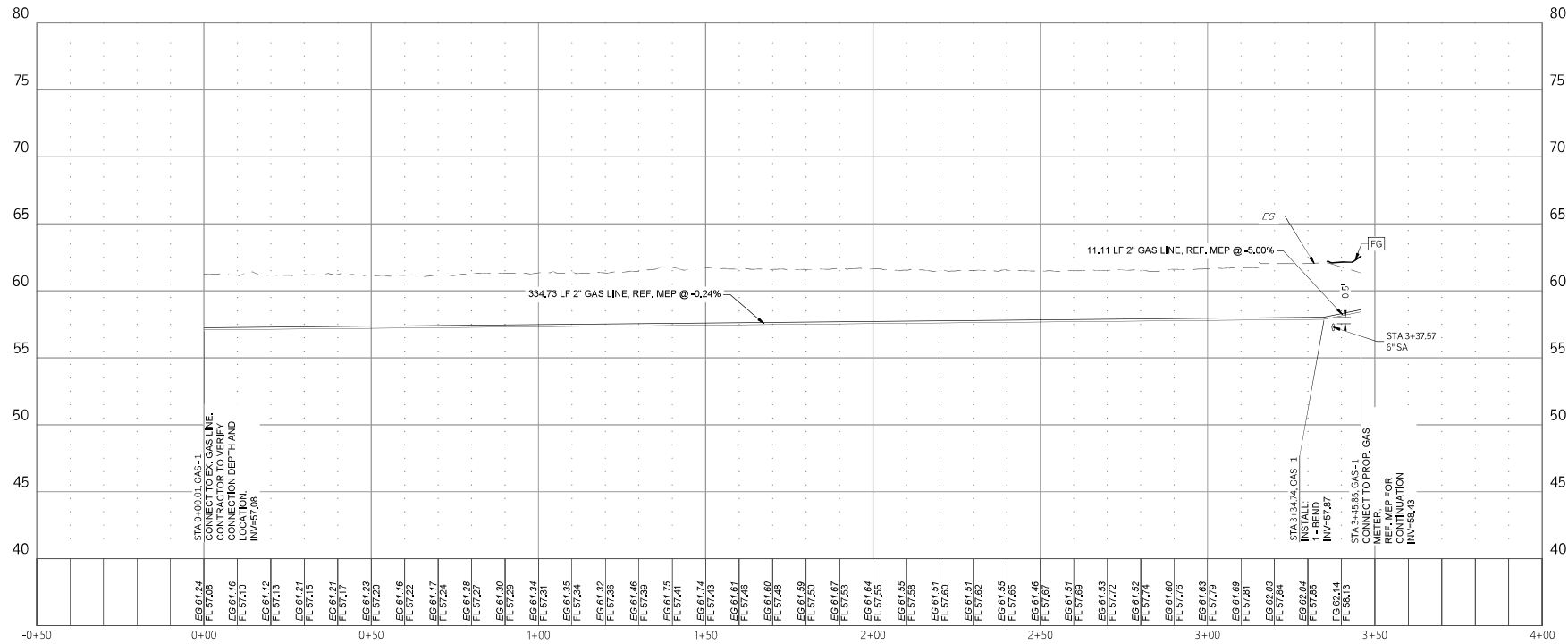
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STATION 3
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KINGVILLE, TX 78363

NO.	REVISION	DATE

C12.0
GAS PLAN



GAS-1
SCALE: 1"=20' H, 1"=5' V

NO.	REVISION	DATE



**KINGSVILLE FIRE
STATION 3**
2402 S 6TH STREET
KINGSVILLE, TX 78363

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ENGINEERING**

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ANDREW A. LANGE
118770
4/24/2025



**BROWN REYNOLDS WATFORD
ARCHITECTS**

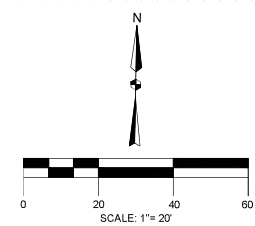
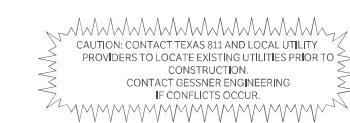
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C12.1

GAS PROFILE



PROJECT BENCHMARK 1:  BM1

NGS MONUMENT LOCATED
APPROXIMATELY 34'
NORTHWEST OF A POWER
POLE.

NORTHING = 17067986.90'
EASTING = 1189328.51'
ELEVATION = 61.75'

PROJECT BENCHMARK 2: BM2
5/8" IRON ROD WITH CAP
LOCATED APPROXIMATELY
10' NORTHWEST OF A
POWER POLE.
NORTHING = 17068041.42'
EASTING = 1189566.13'

[illegible]

Figure 1 displays various symbols used in the design of a dam and its associated infrastructure. The symbols are arranged in two columns, with a legend on the right side of the page.

Legend:

- CONSTRUCTION ENTRANCE, INSTALLED PER DETAIL.** (Symbol: A rectangular area filled with a pattern of small circles, representing a construction entrance).
- PROPERTY LINE** (Symbol: A dashed line).
- EXISTING CONTOURS** (Symbol: A solid line with a small circle containing the number 340).
- PROPOSED CONTOURS** (Symbol: A dashed line with a small circle containing the number 340).
- EXISTING FLOW PATH** (Symbol: A solid line with arrows pointing in the direction of flow).
- PROPOSED FLOW PATH** (Symbol: A dashed line with arrows pointing in the direction of flow).
- SILT FENCE, INSTALLED PER DETAIL** (Symbol: A solid line with three small circles, each containing the number 58).
- PROPOSED DAM EROSION CONTROL, LOG-18"** (Symbol: A solid line with a small circle containing the text "CL-D").
- PROPOSED ROCK FILTER DAM TYPE 3** (Symbol: A solid line with a small circle containing the text "RFD3").

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 KINGSVILLE FIRE STATION 3 2602 S 4TH STREET KINGSVILLE, TX 78643		COPYRIGHT © 2021 BROWN REYNOLDS WATFORD ARCHITECTS, INC. APRIL 24, 2025 DATE DRAWN BY MH CHECKED BY SB BRW PROJECT NUMBER BRW PROJECT NUMBER	
 GESSNER ENGINEERING Corporate Office 403 West 26th Street Bryan, Texas 77803 www.gessnerengineering.com FIRM REGISTRATION NUMBER: 190474026, TP-00-003910		 BROWN REYNOLDS WATFORD ARCHITECTS 1000 WEST SQUARE DRIVE SUITE 350 COLLEGE STATION, TEXAS 77840 WWW.BRWARCH.COM	
 BRW			

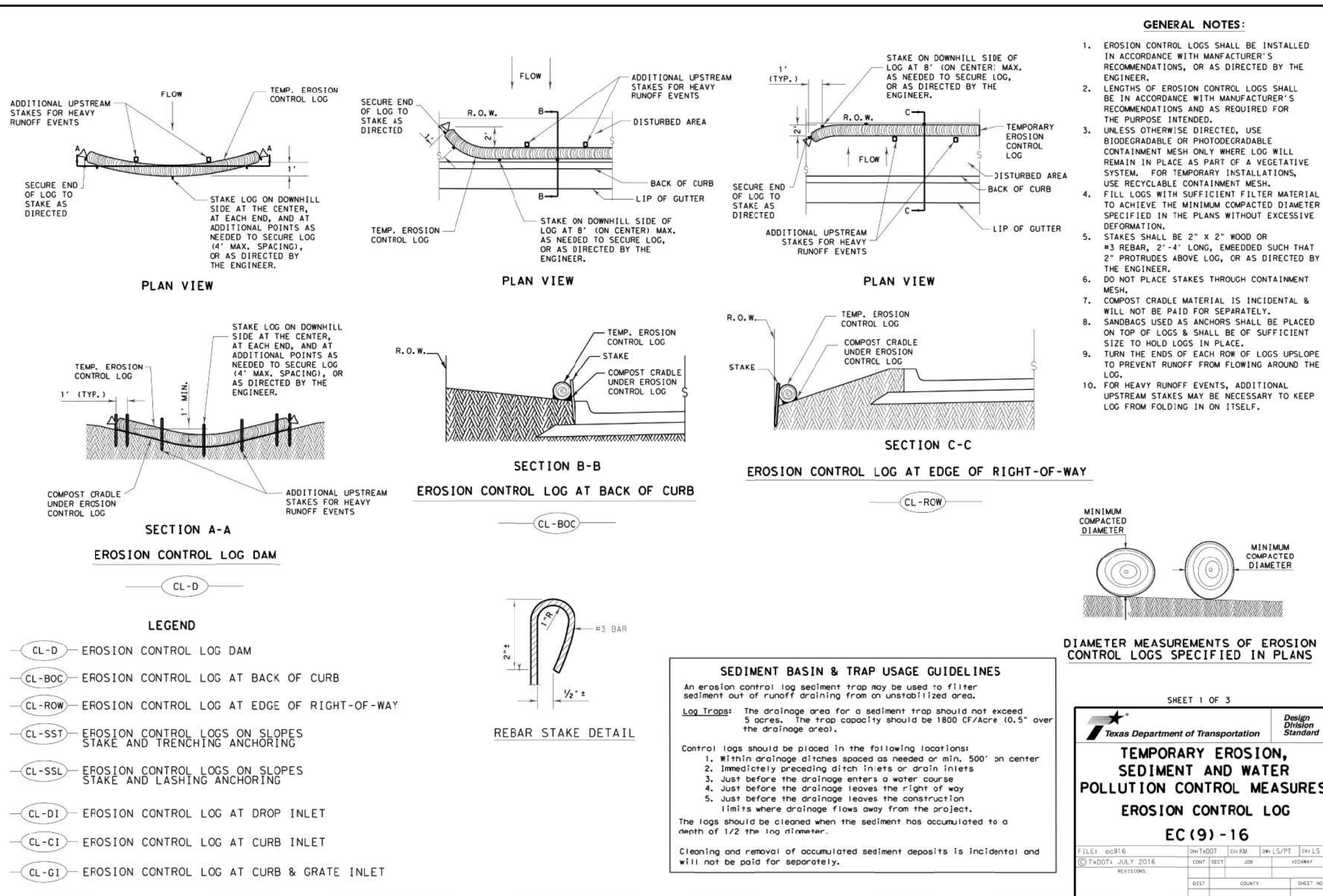
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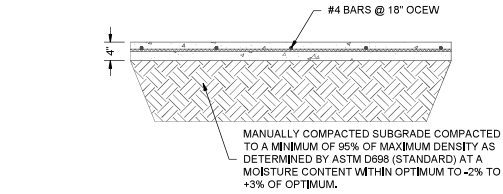
EROSION CONTROL PLAN

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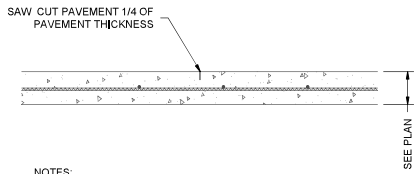
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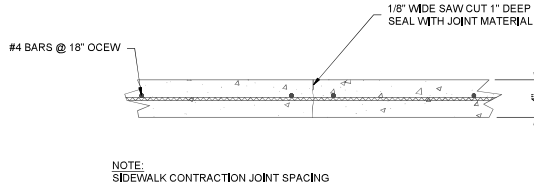
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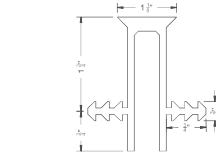
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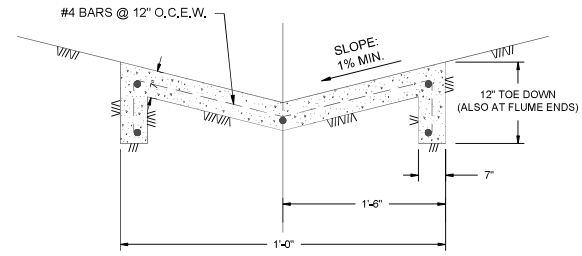
CONTROL JOINT
NTS



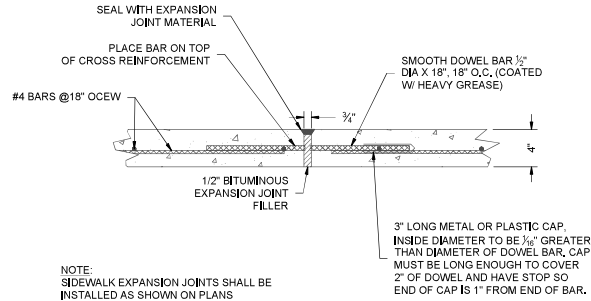
SIDEWALK CONTRACTION JOINT
NTS



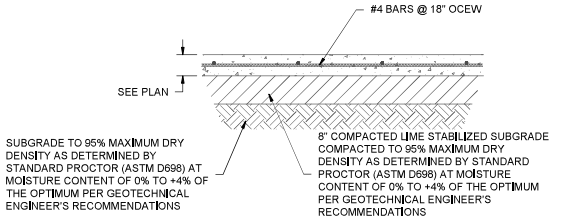
EXPANSION JOINT WATER STOP
CAP (2 SIDED)
NTS



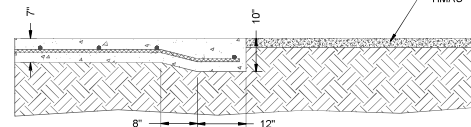
POND FLUME SECTION
NTS



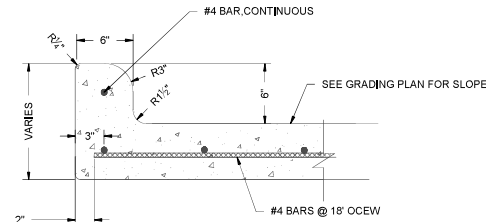
SIDEWALK EXPANSION JOINT
NTS



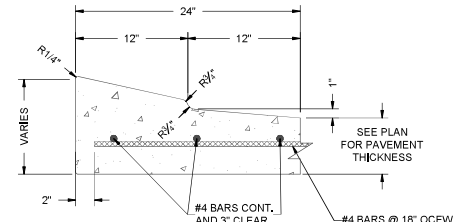
CONCRETE PAVEMENT
NTS



CONCRETE TO ASPHALT THICKENED EDGE
NTS

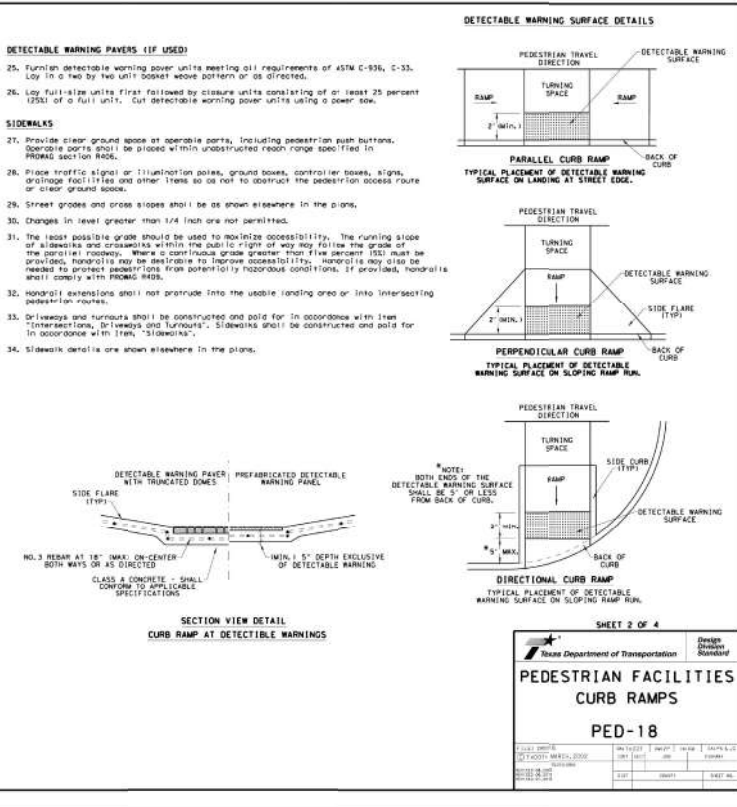


INTEGRAL CURB & GUTTER
NTS

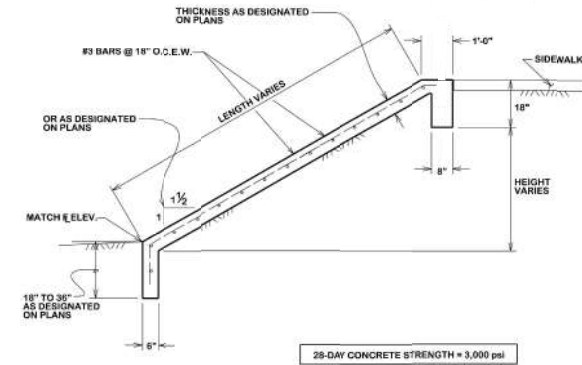


LAY-DOWN CURB
NTS

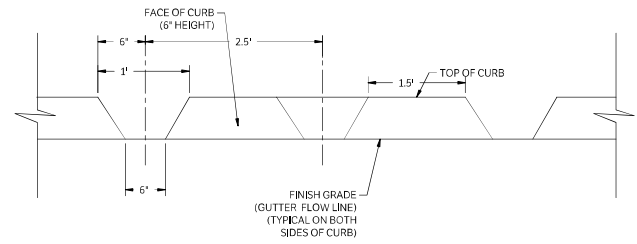
- GENERAL NOTES**
- CURB RAMPS**
1. Install a curb ramp or bladed transition at each pedestrian street crossing.
 2. All slopes shown are maximum allowable. Cross slopes of 1.5% and lesser running should be used. Adjust curb ramp length or grade of approach sidewalks as directed.
 3. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.
 4. The minimum sidewalk width is 5'. Where the sidewalk is adjacent to the back of curb, a 6' sidewalk width is desirable, where a 5' sidewalk cannot be provided due to site constraints, a sidewalk width may be reduced to 4' for short distances.
 5. A 5' passing space at intervals not to exceed 200' are required.
 6. Turning spaces shall be 5' x 5' minimum. Cross slope shall be maximum 2%.
 7. Clear space at the bottom of curb ramps shall be a minimum of 6' x 6' and shall be contained within the crosswalk and wholly outside the parallel vehicular travel path.
 8. Provide flared sides where the pedestrian circulation path crosses the curb ramp. Flared sides shall be flared at 10% maximum, measured parallel to the curb. Flared curbs may be used only where pedestrians would not normally walk across the ramp, either because the adjacent surface is planned, substantially obstructed, or otherwise protected.
 9. Additional information on curb ramp location, design, light reflective value and texture may be found in the latest draft of the Proposed Guidelines for Pedestrian Facilities in the Public Right of Way (NCHRP 670) as published by the U.S. Architectural and Transportation Barriers Compliance Board (Access Board).
 10. To serve as a pedestrian refuge area, the median should be a minimum of 6' wide, measured from edge of curb. Medians should be designed to provide safe passage over or through them.
 11. Seal channelization islands, which do not provide a minimum 5' x 5' landing at the top of curb ramps, shall be cut through level with the surface of the street.
 12. Crosswalk dimensions, crosswalk markings and stop bar locations shall be as shown elsewhere in the plans. In intersections where crosswalk markings are not required, curb ramps shall align with the parallel crosswalk unless otherwise directed.
 13. Provide curb ramps to connect the pedestrian access route of each pedestrian street crossing. Handrails are not required on curb ramps.
 14. Curb ramps and landings shall be constructed and paid for in accordance with Item 531 "Sidewalks".
 15. Place concrete at a minimum depth of 5" for ramps, flares and landings, unless otherwise directed.
 16. Furnish and install No. 3 reinforcing steel bars at 18" o.c. both ways, unless otherwise directed.
 17. Provide a smooth transition where the curb ramps connect to the street.
 18. Curb shown on sheet is within the limits of pavement are considered part of the curb ramp for payment, whether it is concrete curb, gutter, or combined curb and gutter.
 19. Existing features that comply with applicable standards may remain in place unless otherwise shown on the plans.
- DETECTABLE WARNING MATERIAL**
20. Curb ramps must contain a detectable warning surface that consists of raised truncated domes complying with 2011 ADA Standards for Accessible Design with adjoining surfaces, including side flares. Furnish and install an approved cast-in-place dark brown or dark red detectable warning surface material adjacent to uncolored concrete, unless specified elsewhere in the plans.
 21. Detectable warning materials must meet ADAAG Departmental Materials Specification 405.4.30 and be listed on the Material Producer List. Install products in accordance with manufacturer's specifications.
 22. Detectable warning surfaces must be firm, stable and slip resistant.
 23. Detectable warning surfaces shall be a minimum of 24 inches in depth in the direction of pedestrian travel, and extend the full width of the curb ramp or landing where the pedestrian access route enters the street.
 24. Detectable warning surfaces shall be located so that the edge nearest the curb line is at the back of curb and neither end of that edge is greater than 5 feet from the back of curb. Detectable warning surfaces may be curved along the corner radius.
 25. Shaded areas on Sheet 1 of 4 indicate the approximate location for the detectable warning surface for each curb ramp type.



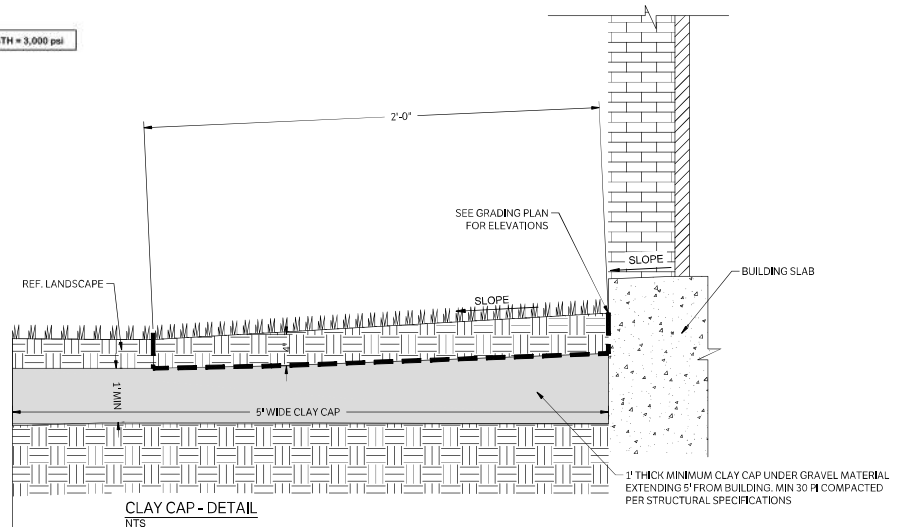
NOTE:
18" TOE WALL TO BE CONSTRUCTED AT BEGINNING & END OF CONCRETE DITCH LINING & RIP-RAP SECTIONS.



SLOPED CONCRETE PAVEMENT
NTS



SAW TOOTH CURB DETAIL



CLAY CAP - DETAIL
NTS



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CHECKED BY: SB
BRW PROJECT NUMBER: BRW-2025-003930

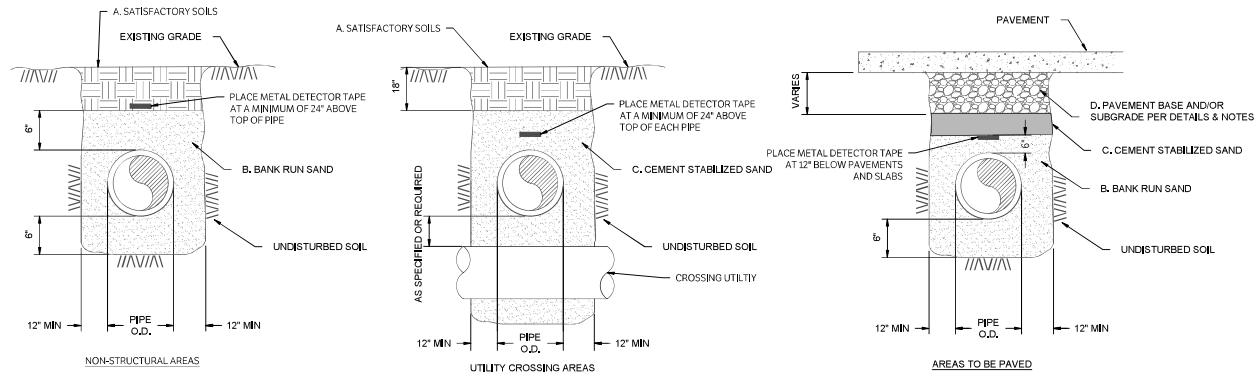
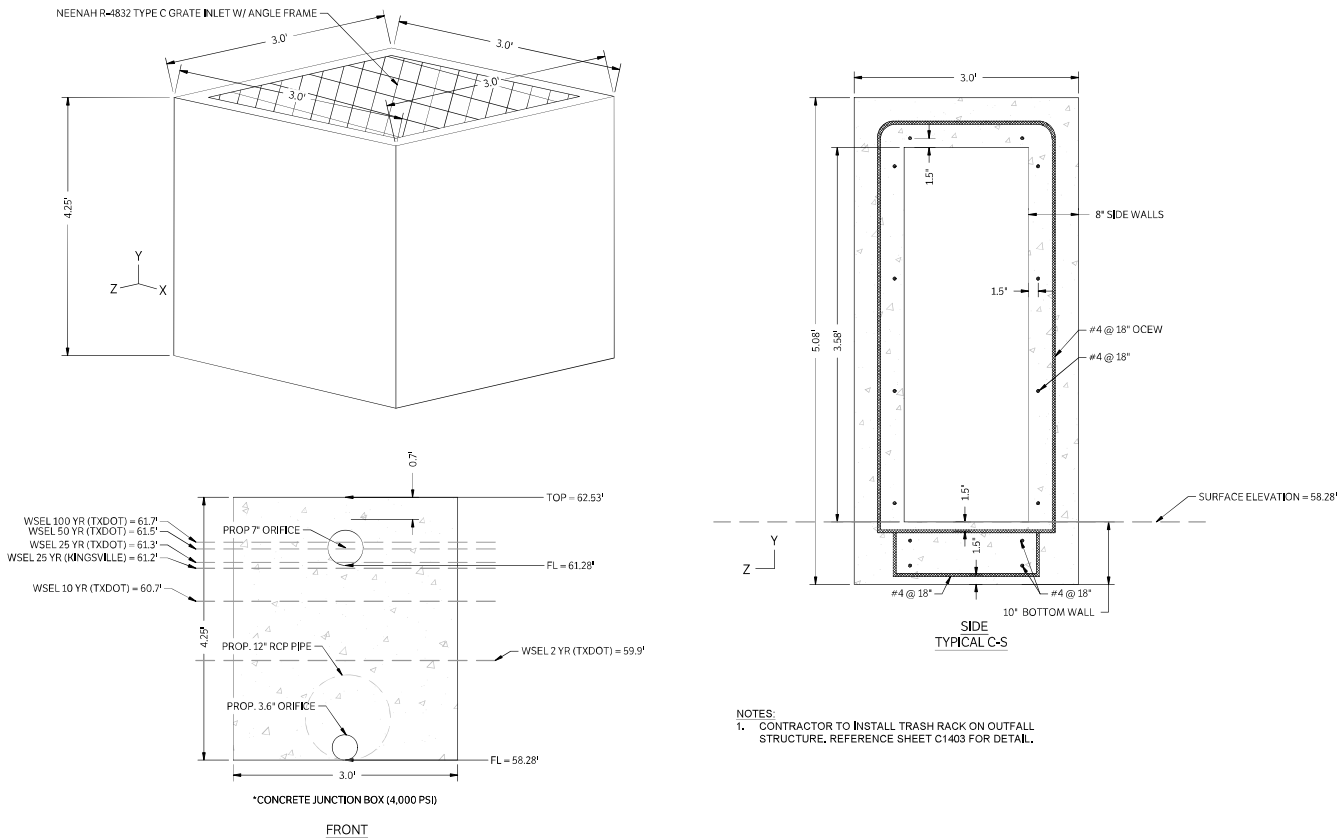


NO.	REVISION	DATE



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PROPOSED PO-1 DETENTION POND COMPOSITE OUTFALL DETAIL (NTS)



- A. SATISFACTORY SOILS**
MATERIAL EXCAVATED FROM THE DITCH, (WHICH IS FREE OF ROCKS, LUMPS, CLODS, OR DEBRIS LARGER THAN TWO (2) INCHES IN THE LARGEST DIMENSION), COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT MOISTURE CONTENT WITHIN OPTIMUM TO +2% TO -3% OF OPTIMUM UNDER NON-STRUCTURAL AREAS (E.G., YARDS, PASTURES, EASEMENTS) AND TO A MINIMUM OF 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN OPTIMUM TO 0% TO +4% OF OPTIMUM UNDER NEW STREET AND PAVEMENT AREAS.
- B. BANK RUN SAND**
GRANULAR MATERIAL FREE OF DETRIMENTAL QUANTITIES OF CLAY, DEBRIS, OR ORGANIC MATERIAL. REFERENCE SPECIFICATION FOR REQUIREMENTS.
- C. PAVEMENT SUBGRADE**
REFERENCE PAVEMENT SECTION DETAIL AND SPECIFICATION FOR MATERIALS AND DEPTHS.

GENERAL NOTES:
ALL AREAS WHERE EXISTING VEGETATION AND GRASS COVER HAVE BEEN BARED BY CONSTRUCTION SHALL BE ADEQUATELY BLOCK SODDED OR HYDROMULCHED AND WATERED UNTIL GROWTH IS ESTABLISHED. IN DEVELOPED AREAS WHERE GRASS IS PRESENT, BLOCK SOD WILL BE REQUIRED. BARED AREAS SHALL BE SEED OR SODDED WITHIN 14 CALENDAR DAYS OF LAST DISTURBANCE.

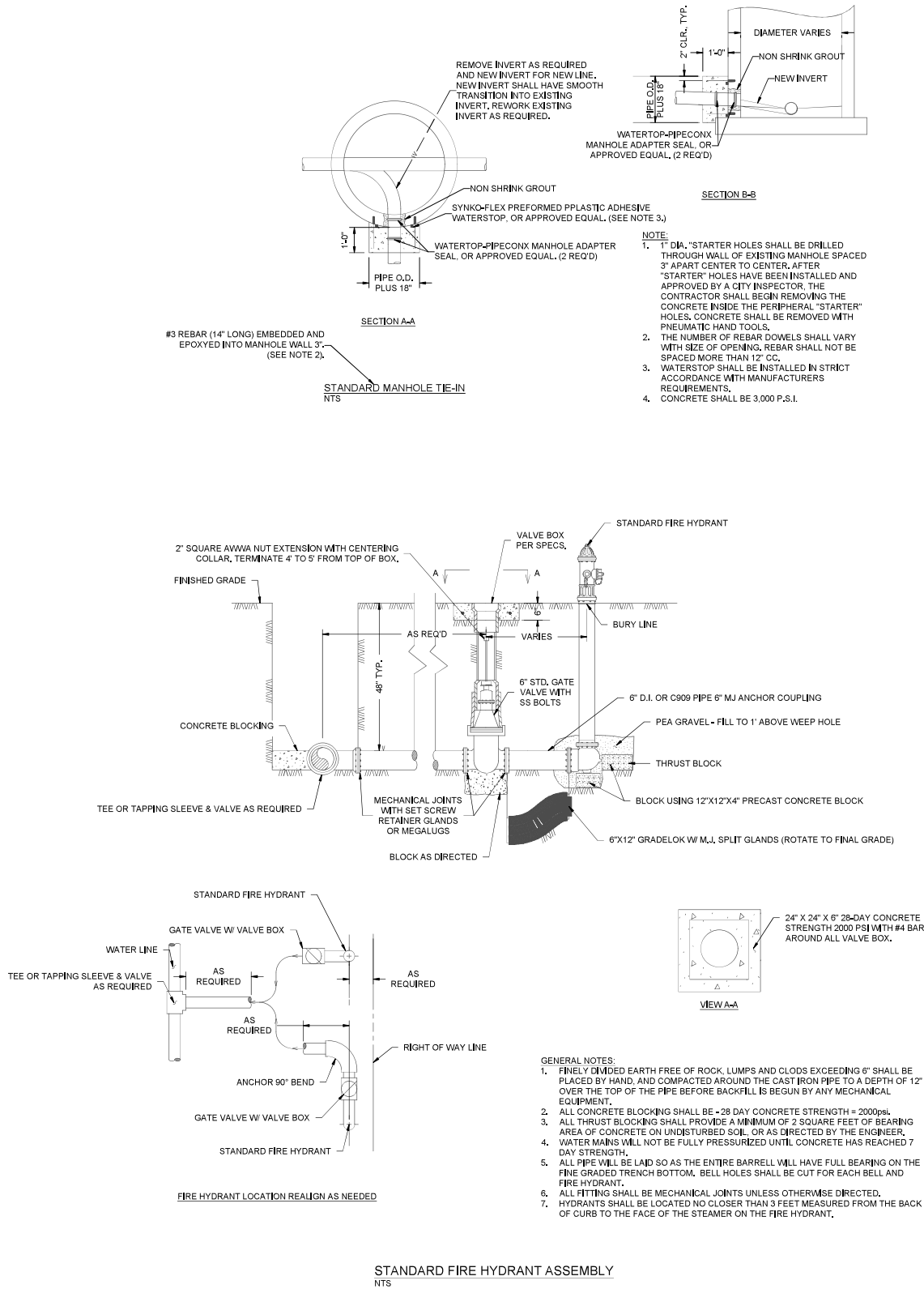
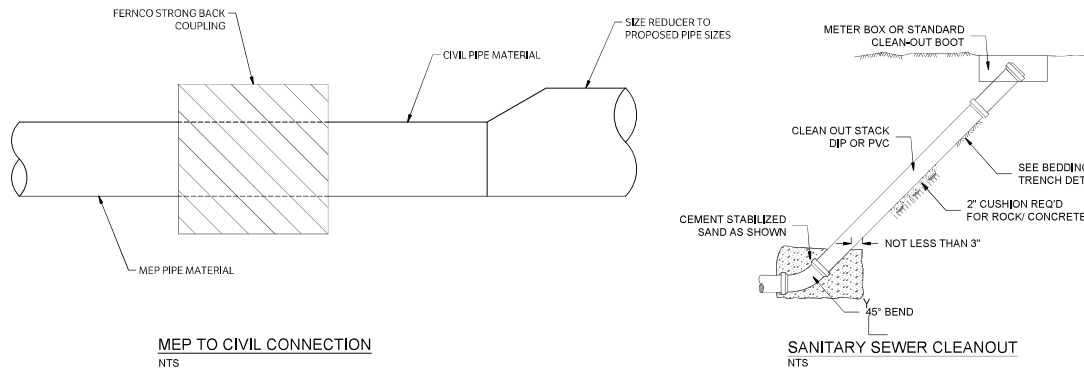
APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.

ALL EROSION CONTROL MEASURES SHOULD BE CLEANED OF SILT AFTER EVERY RAIN.

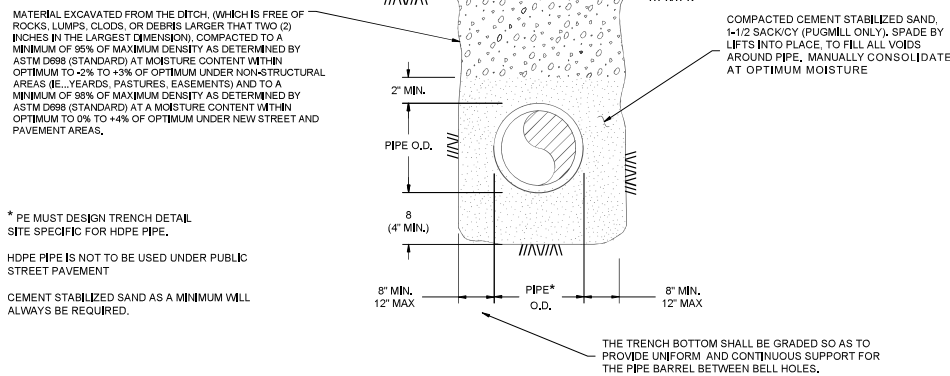
ESTABLISHMENT OF VEGETATION MAY BE A WARRANTY ITEM

- NOTES:**
1. FOR BEDDING AND TRENCHING WITHIN ALL PAVED AREAS SEE DETAILS FOR OPEN CUT STREETS.
2. ALL BEDDING & INSTALLATION OF PVC PIPE SHALL BE IN ACCORDANCE WITH ANSIAWWA STANDARDS FOR PVC PIPE.
3. COMPACTION SHALL BE ATTAINED BY MECHANICAL TAMPING.
4. RELATIVE COMPACTION SHALL BE TESTING IN THE PRESENCE OF THE ENGINEER.
5. COST RESULTING FROM THE CONTRACTOR'S PERFORMANCE OF THE WORK, EITHER INSIDE OR OUTSIDE THE RIGHT-OF-WAY, SHALL BE CONTROLLED BY THE CONTRACTOR.
6. ALL TRENCHES SHALL BE BACK FILLED AND TEMPORARY PAVING OR PLATING PLACED AT THE END OF EACH WORKING DAY IN AREAS TO BE PAVED.
7. PROTECT ALL OPEN TRENCHES AT THE END OF EACH WORKING DAY.
8. EVERY 100 FEET PROVIDE A WATER STOP BLOCK COMPOSED OF CEMENT SAND OR NATIVE MATERIAL DEPENDING ON EMBEDMENT. BLOCK SHALL BE 6 FEET IN LENGTH, NO BEDDING SAND IN THIS AREA

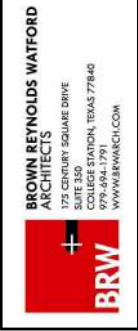
BEDDING AND TRENCH FOR PVC PIPE WITH NON-STRUCTURAL OR NEW PAVED AREAS
NTS



- GENERAL NOTES:**
1. FINELY DIMMED EARTH FREE OF ROCK, LUMPS AND CLODS EXCEEDING 6\"/>



BEDDING AND TRENCH FOR REINFORCED CONCRETE PIPE
NTS



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BRW PROJECT NO.



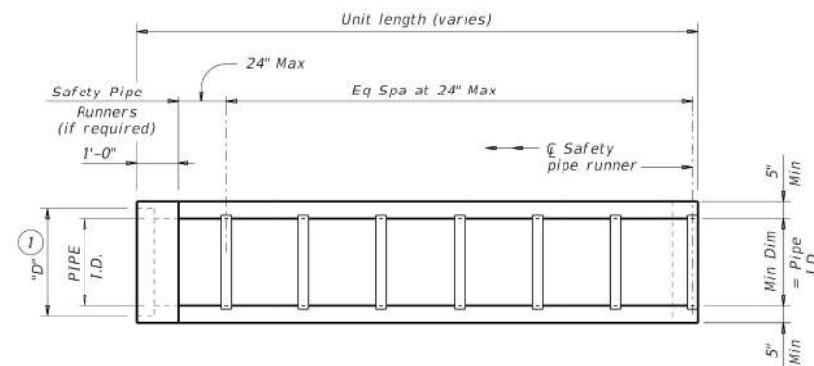
NO.	REVISION	DATE



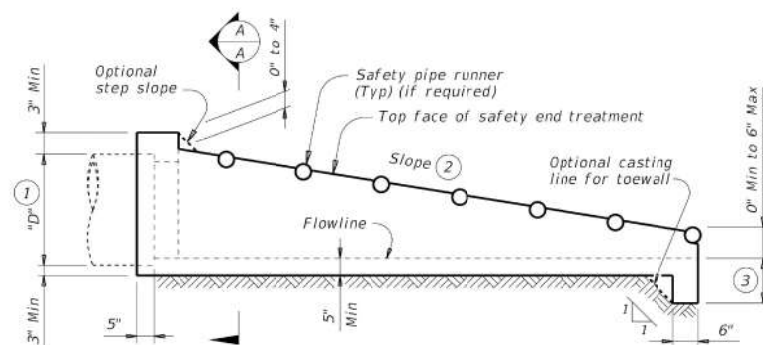
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DISCLAIMER: This standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for any purpose whatsoever. The use of this standard is for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

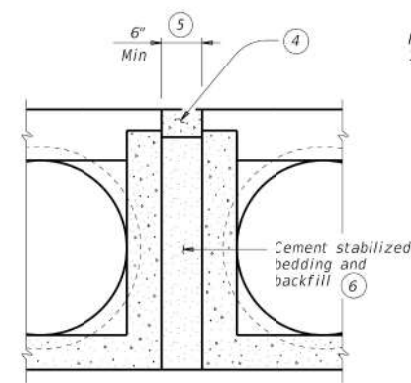
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FILE:



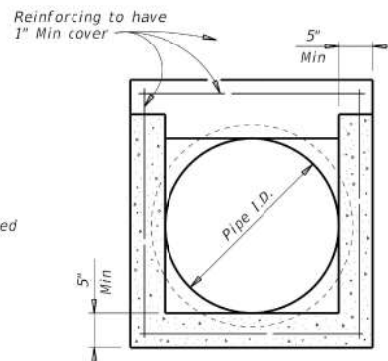
PLAN
(Showing bell end connection.)



LONGITUDINAL ELEVATION
(Showing bell end connection.)

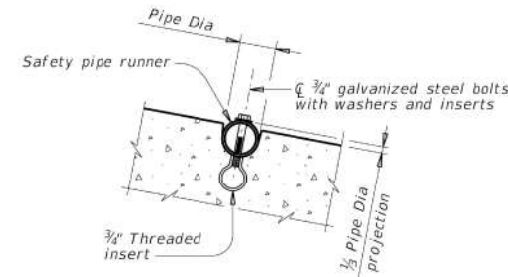


MULTIPLE PIPE INSTALLATION

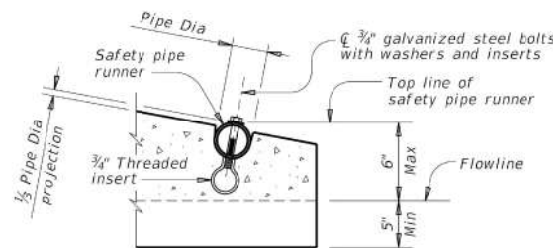


OPTION WITH SQUARE BOTTOM

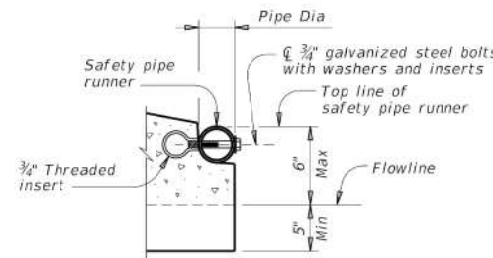
SECTION A-A



INSTALLATION DETAIL FOR SAFETY PIPE RUNNERS
(If required)

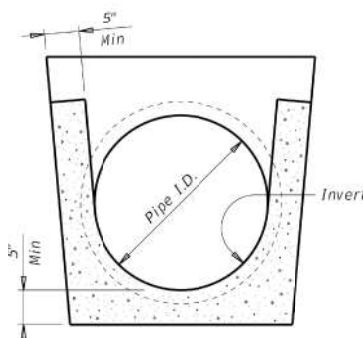


OPTION A

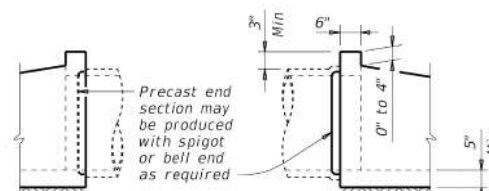


OPTION B

END DETAILS FOR INSTALLATION OF SAFETY PIPE RUNNERS
(If required)



OPTION WITH INVERT BOTTOM



OPTIONAL JOINT FOR RCP
(Showing joint between RCP and precast safety end treatment.)

REQUIREMENTS FOR CULVERT PIPES AND SAFETY PIPE RUNNERS

Pipe I.D.	RCP Wall "B" Thickness	TP Wall Thickness (7)	"D" (1)	Slope	Min Length	Pipe Runners Required		Required Pipe Runner Size		
						Single Pipe	Multiple Pipe	Nominal Dia.	O.D.	I.D.
12"	2"	1.15"	17.00"	6:1	4' - 9"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
15"	2 3/4"	1.30"	20.50"	6:1	6' - 5"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
18"	2 1/2"	1.60"	24.00"	6:1	8' - 0"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
24"	3"	1.95"	31.00"	6:1	11' - 3"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
30"	3 1/2"	2.65"	38.50"	6:1	14' - 8"	No	Yes	4" STD	4.500"	4.026"
36"	4"	2.75"	45.50"	6:1	17' - 11"	Yes	Yes	4" STD	4.500"	4.026"
42"	4 1/2"	2.7"	52.50"	6:1	21' - 2"	Yes	Yes	4" STD	4.500"	4.026"

- Dimension "D" is based on reinforced concrete pipe (RCP) meeting the requirements of ASTM C-76, Class III, (RCP Wall "B" thickness). Adjust "D" for any other wall thickness used. For thermoplastic pipe (TP) take into account the annular space requirements for grouted connections.
- Slope as shown elsewhere in the plans. Slope of 6:1 or flatter is required for vehicle safety.
- Toewall to be used only when dimension is shown elsewhere in the plans.
- Fill the top 4" of void between precast end treatments with concrete riprap. Concrete riprap is considered subsidiary to the Item 467, "Safety End Treatment."
- Adjust clear distance between pipes to provide for the minimum distance between safety end treatments.
- Provide cement stabilized bedding and backfill in accordance with the Item 400, "Excavation and Backfill for Structures." Bedding and backfill is considered subsidiary to the Item 467, "Safety End Treatment." When concrete riprap is specified around the safety end treatment, backfill as directed by Engineer.
- Thermoplastic pipe wall thickness may vary. Adjust accordingly. Thermoplastic pipe requires the safety end treatments to have a bell end for grouted connections.

GENERAL NOTES:

Precast safety end treatment for reinforced concrete pipe (RCP), and thermoplastic pipe (TP) 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 nitered RCP, riprap will not be required unless noted otherwise on the plans.

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

Manufacture this product in accordance with Item 467, "Safety End Treatment" except as noted below:

A. Provide minimum reinforcing of #4 at 6" (Grade 40) or #4 at 9" (Grade 60) each way or 6"x6" - D12 x D12 or 5"x5" - D10 x D10 welded wire reinforcement (WWR).

B. For precast (steel formed) sections, provide Class "C" concrete (f'c = 3,600 psi).

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

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

Provide pipe runners meeting the requirements of ASTM A53 (Type E or S, Grade B), ASTM A500 (Grade B), or API 5LX52.

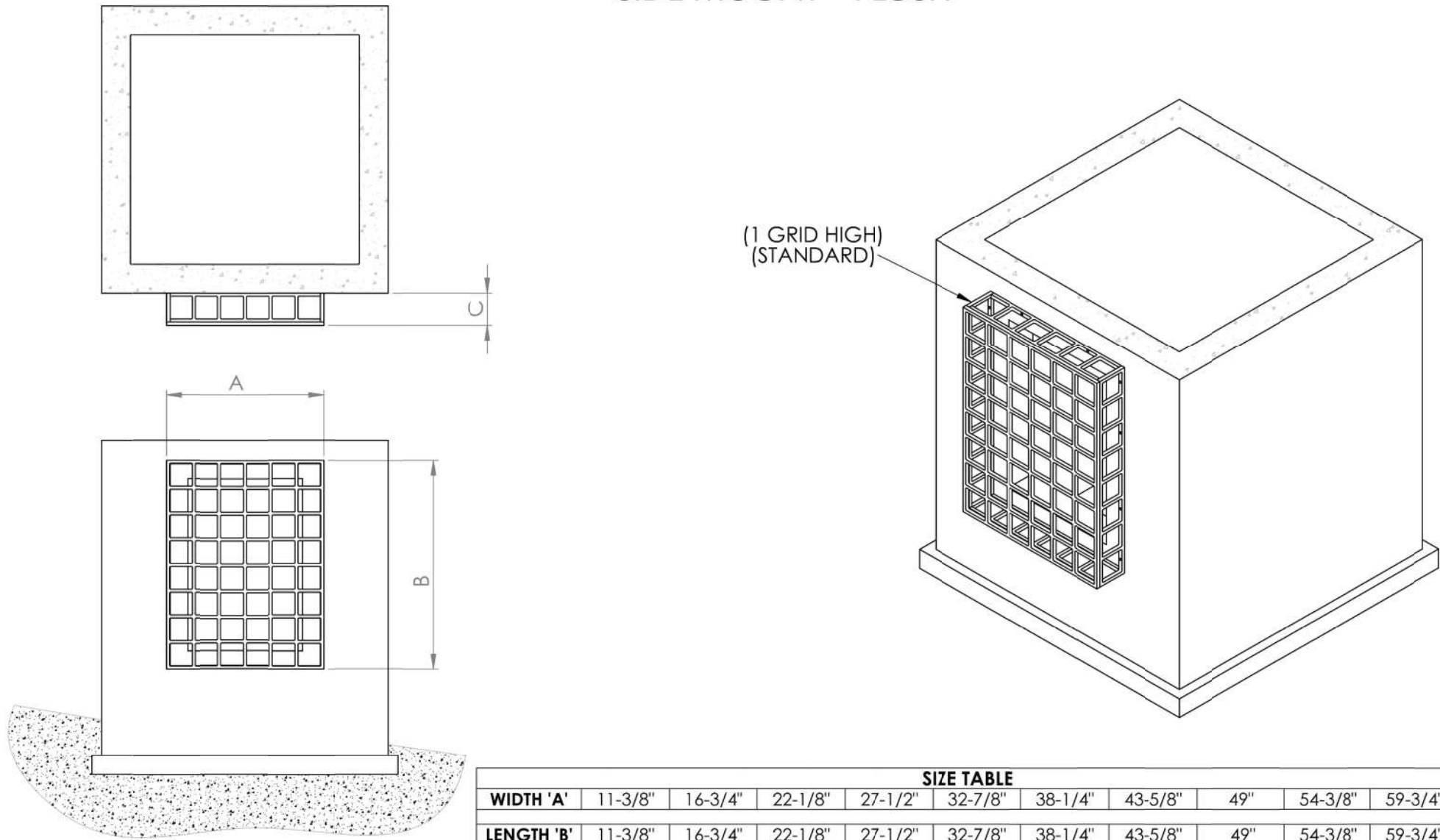
Galvanize all steel components except reinforcing steel after fabrication. Repair galvanizing damaged during transport or construction in accordance with the specifications.

Connect RCP using the Optional Joint for RCP detail shown or in accordance with Item 464, "Reinforced Concrete Pipe." Connect TP by grouting. See Pipe and Box Grouted Connections (PBGC) standard for grouted connections with TP and precast safety end treatment.

Texas Department of Transportation		Bridge Division Standard	
PRECAST SAFETY END TREATMENT			
TYPE II ~ PARALLEL DRAINAGE			
PSET-SP			
FILE: CO-PSET-SP-21.dgn	DN: RLW	CK: KLR	OW: JTR
TXDOT February 2026	CONT	SECT	JOB
REVISIONS		SHEET NO.	
12-21: Added 42" TP	DIST	COUNTY	SHEET NO.



FLAT SERIES OVERVIEW
SIDE MOUNT - FLUSH



SIZE TABLE											
WIDTH 'A'	11-3/8"	16-3/4"	22-1/8"	27-1/2"	32-7/8"	38-1/4"	43-5/8"	49"	54-3/8"	59-3/4"	65-1/8"
LENGTH 'B'	11-3/8"	16-3/4"	22-1/8"	27-1/2"	32-7/8"	38-1/4"	43-5/8"	49"	54-3/8"	59-3/4"	65-1/8"
HEIGHT 'C'	7-1/2"	1 GRID HIGH (STANDARD)									
	12-7/8"	2 GRID HIGH (ALSO AVAILABLE)									

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NOTES:
1. JOINT TO CONTINUE THROUGH WALL AND FOOTING AS SHOWN ON PLAN.
2. PROVIDE CONTROL JOINT AT 20' - 0" MAX. SEGMENTS ALONG SITE WALL.



NOTES:

1. JOINT TO CONTINUE THROUGH WALL AND FOOTING AS SHOWN ON PLAN.
2. PROVIDE EXPANSION JOINT AT 60' - 0" MAX SEGMENTS ALONG SITE WALL.



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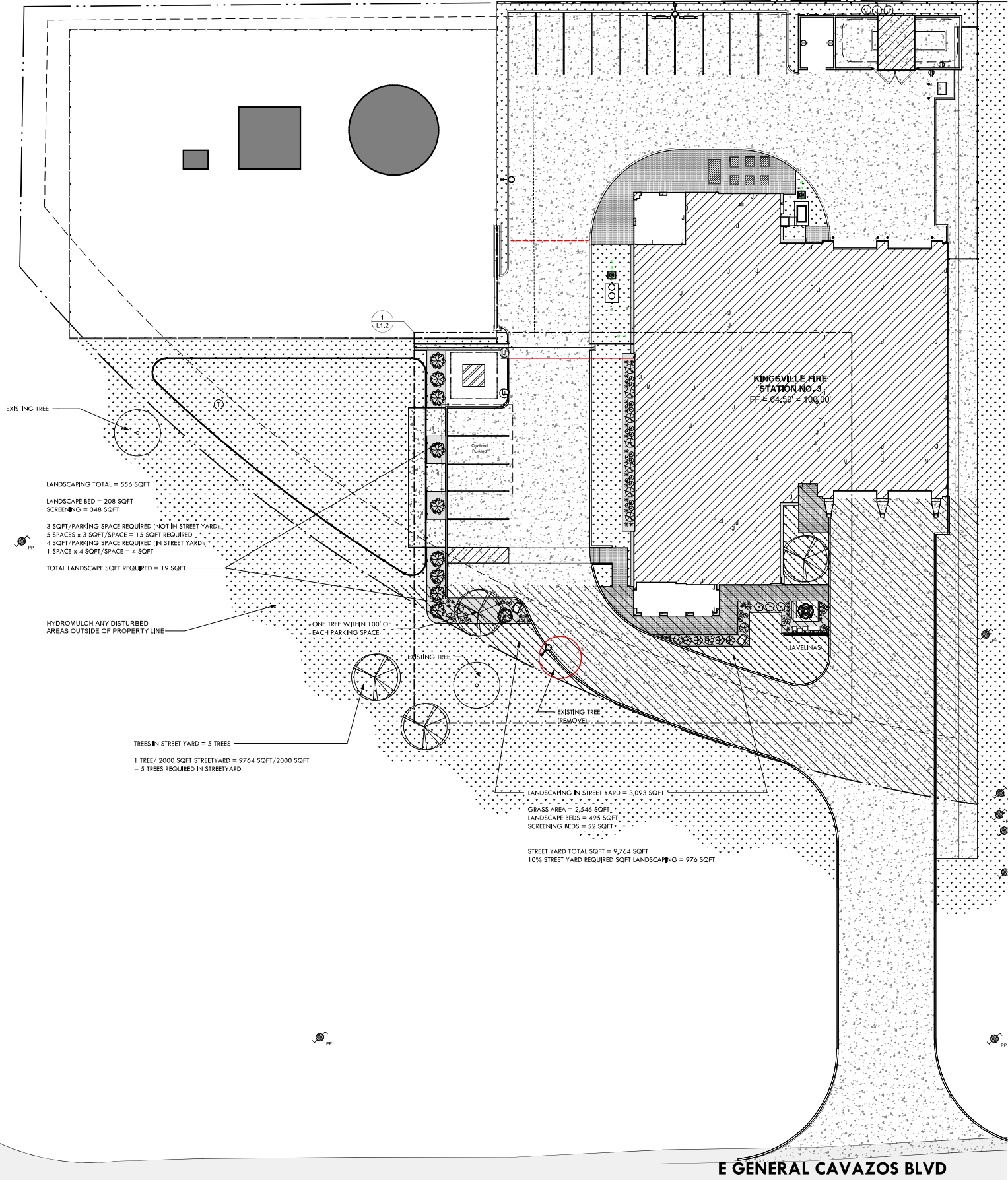
LANDSCAPE LEGEND

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
	---	---	STREET YARD	9764 SQFT	---
	---	CYNODON DACTYLON	BERMUDA GRASS SOD	---	SEE SPECIFICATIONS
	---	CYNODON DACTYLON	BERMUDA GRASS HYDROMULCH	---	SEE SPECIFICATIONS
	---	---	RIVER ROCK	727 SQFT	SEE SPECIFICATIONS
	51	RUPELLIA BRITTONIANA 'KATIE'	KATIE'S RUELLIA	1 GAL	24" TRIANGULAR SPACING
	33	TULBAGHIA VIOLACEA	SOCIETY GARLIC PLANT	1 GAL	24" TRIANGULAR SPACING
	3	HESPERALOE PARVIFLORA	RED YUCCA	3 GAL	36" SPACING
	5	HESPERALOE PARVIFLORA 'YELLOW'	YELLOW YUCCA	3 GAL	36" SPACING
	11	MUHLENBERGIA DUBIA	PINE MUHLY GRASS	3 GAL	36" - 48" SPACING
	10	LEUCOPHYLLUM FRUTESCENS	TEXAS SAGE	3 GAL	36" - 48" SPACING
	2	---	BOULDER	2' DIA	---
	5	VITEX AGNUS-CASTUS	VITEX TREE	30 GAL	MULTI-TRUNK TREE
	5	---	EXISTING TREE	---	---



1 LANDSCAPE PLAN
1/16" = 1'-0"

S 6TH ST.



E GENERAL CAVAZOS BLVD

KEYNOTES

NO.	REVISION	DATE

L1.1

LANDSCAPE PLAN

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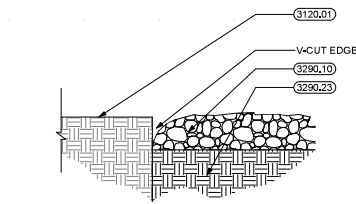
**KINGSVILLE
FIRE STATION NO. 3**
2602 S 6TH ST.
KINGSVILLE, TX 78363

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BRW PROJECT NUMBER 223136.00

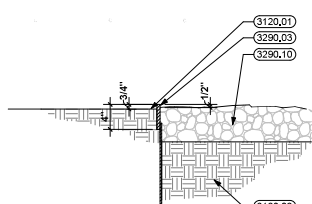
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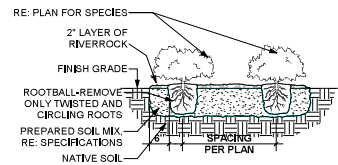
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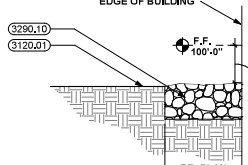
3 LANDSCAPE DETAIL
1" = 1'-0"



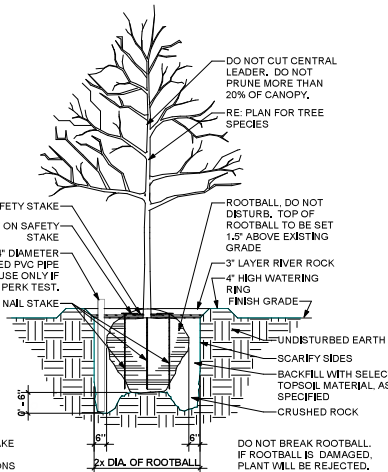
2 LANDSCAPE DETAIL
1" = 1'-0"



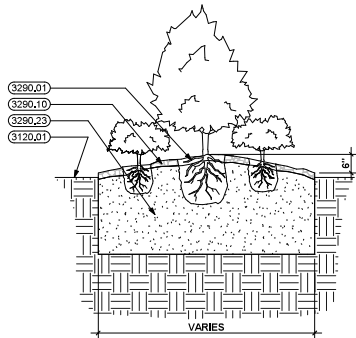
5 LANDSCAPE DETAIL
1/2" = 1'-0"



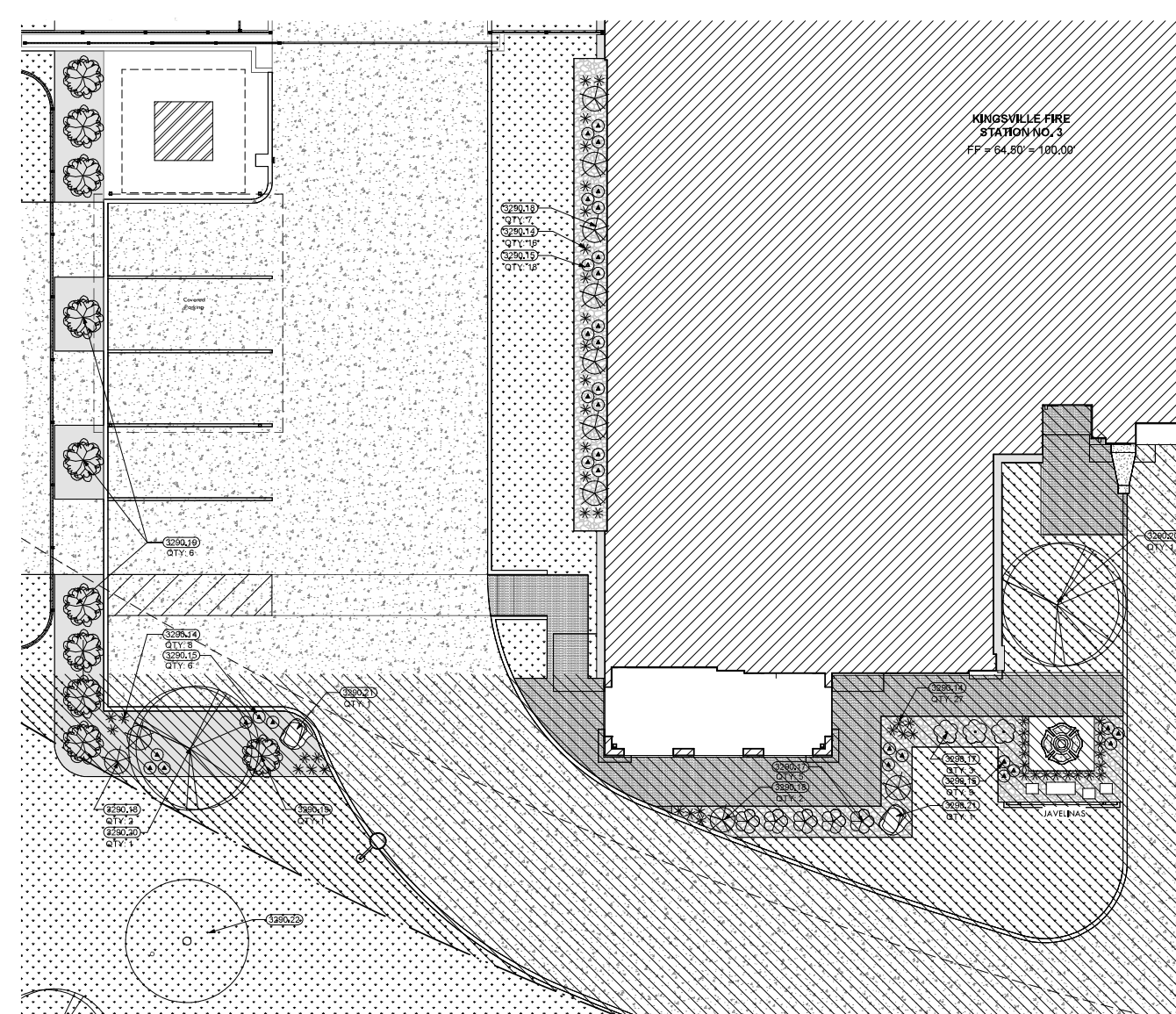
4 LANDSCAPE DETAIL
1" = 1'-0"



7 LANDSCAPE DETAIL
1/4" = 1'-0"



6 LANDSCAPE DETAIL
1/2" = 1'-0"



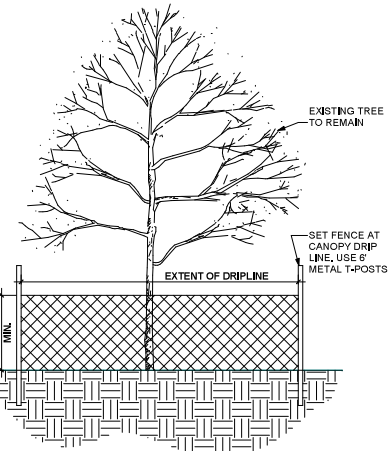
1 ENLARGED LANDSCAPE PLAN
1/8" = 1'-0"

LANDSCAPE LEGEND

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
[Symbol]	---	---	STREET YARD	9764 SQFT	---
[Symbol]	---	CYNODON DACTYLON	BERMUDA GRASS SOD	---	SEE SPECIFICATIONS
[Symbol]	---	CYNODON DACTYLON	BERMUDA GRASS HYDROMULCH	---	SEE SPECIFICATIONS
[Symbol]	---	---	RIVER ROCK	727 SQFT	SEE SPECIFICATIONS
[Symbol]	51	RUPELLIA BRITTONIANA 'KATIE'	KATIE'S RUELLIA	1 GAL	24" TRIANGULAR SPACING
[Symbol]	33	TULBAGHIA VIOLACEA	SOCIETY GARLIC PLANT	1 GAL	24" TRIANGULAR SPACING
[Symbol]	3	HESPERALOE PARVIFLORA	RED YUCCA	3 GAL	36" SPACING
[Symbol]	5	HESPERALOE PARVIFLORA 'YELLOW'	YELLOW YUCCA	3 GAL	36" SPACING
[Symbol]	11	MUHLENBERGIA DUBIA	PINE MUHLY GRASS	3 GAL	36" - 48" SPACING
[Symbol]	10	LEUCOPHYLLUM FRUTESCENS	TEXAS SAGE	3 GAL	36" - 48" SPACING
[Symbol]	2	---	BOULDER	2' DIA	---
[Symbol]	5	VITEX AGNUS-CASTUS	VITEX TREE	30 GAL	MULTI-TRUNK TREE
[Symbol]	5	---	EXISTING TREE	---	---

NOTES:

- PRIOR TO SITEWORK, ALL TREES TO RECEIVE PROTECTION MUST BE FLAGGED WITH COLORED VINYL TAPE WRAPPED AROUND THE MAIN TRUNK AT THE HEIGHT OF AT LEAST 4 FEET SO AS TO BE VISIBLE TO WORKERS ON FOOT OR DRIVING EQUIPMENT. ALL EXISTING TREES SHALL REMAIN UNHARMED UNLESS DESIGNATED FOR REMOVAL.
- TREE PROTECTIVE FENCING MUST OCCUR AS SHOWN ON THE PLANS PRIOR TO SITEWORK AND MUST REMAIN IN PLACE UNTIL AFTER IRRIGATION TRENCHING HAS BEEN COMPLETE.
- DURING CONSTRUCTION, NO EXCESS SOIL, ADDITIONAL FILL, EQUIPMENT, LIQUIDS, OR CONSTRUCTION DEBRIS MAY BE PLACED INSIDE THE PROTECTIVE FENCING. NOR MAY ANY SOIL BE REMOVED FROM WITHIN THE PROTECTIVE FENCING.



8 LANDSCAPE DETAIL
1/4" = 1'-0"

KEYNOTES

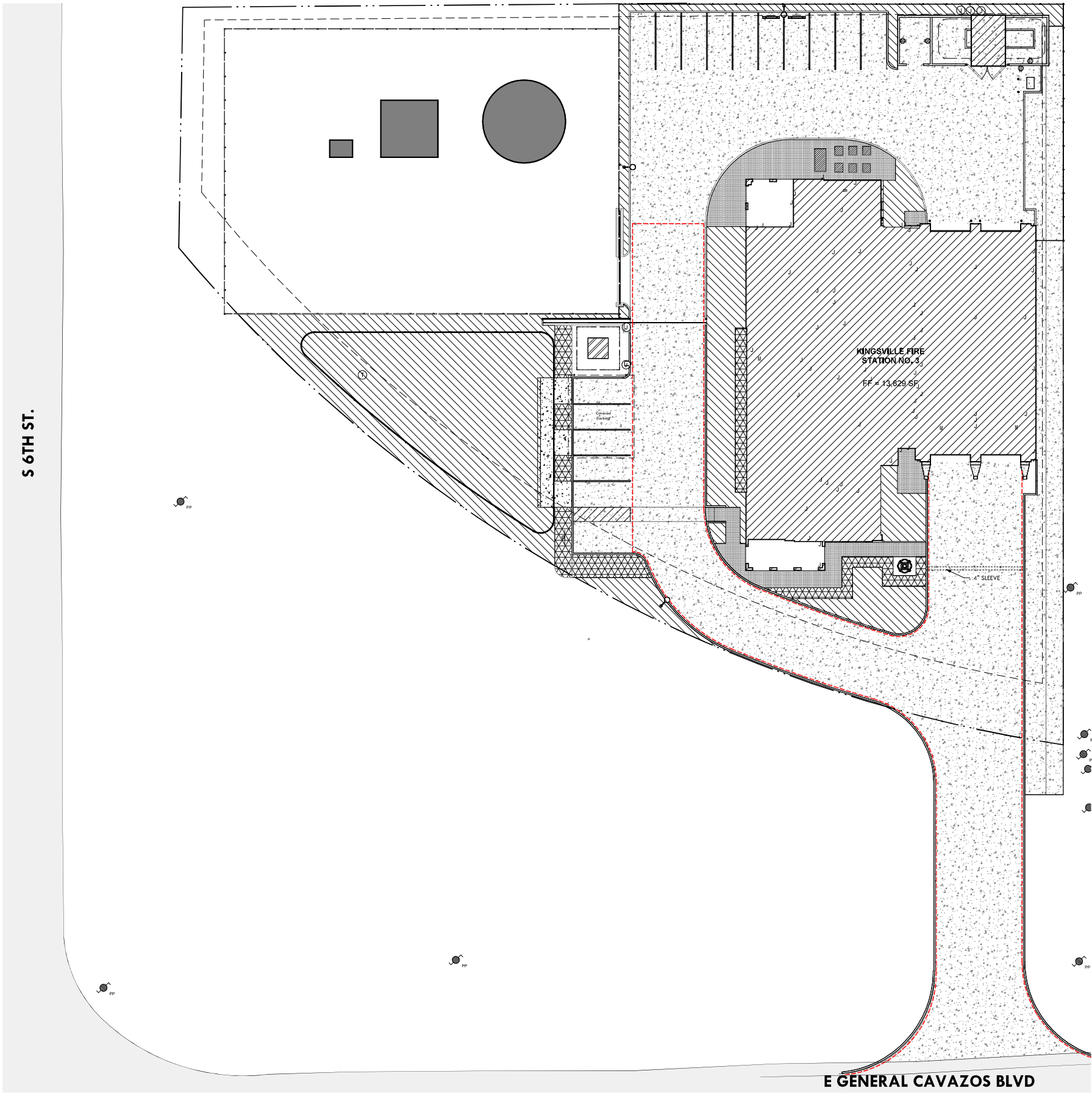
- 3120.01 GRADE
- 3120.02 COMPACTED SELECT FILL
- 3290.01 LANDSCAPE BED
- 3290.03 METAL EDGING
- 3290.10 RIVER ROCK
- 3290.14 KATIE'S RUELLIA
- 3290.15 SOCIETY GARLIC PLANT
- 3290.17 YUCCA (RED)
- 3290.18 PINE MUHLY GRASS
- 3290.19 TEXAS SAGE
- 3290.20 VITEX
- 3290.21 LANDSCAPE BOULDER
- 3290.22 EXISTING TREE
- 3290.23 PREPARED SOIL MIX



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NO.	REVISION	DATE



1 IRRIGATION PLAN
1/16" = 1'-0"

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
	AREA TO BE IRRIGATED WITH SPRAY HEADS / ROTARY HEADS	—	—
	PLANTING BEDS AND TREES TO BE DRIP IRRIGATED	—	—

ISSUE FOR BID

NO.	REVISION	DATE

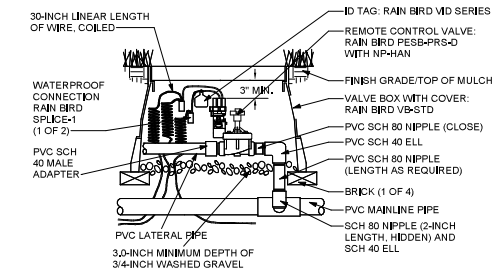
**KINGSVILLE
FIRE STATION NO. 3**
2602 S 6TH ST.
KINGSVILLE, TX 78363

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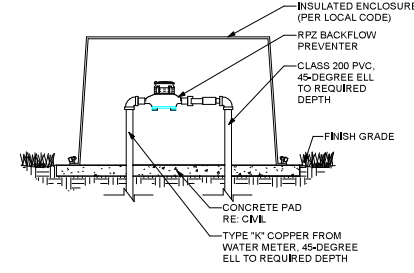
**BROWN REYNOLDS WATFORD
ARCHITECTS**
SUITE 330
172 CENTURY SQUARE DRIVE
KINGSVILLE, TEXAS 77840
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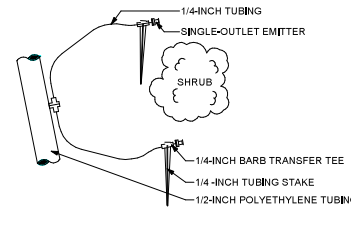
L1.3
IRRIGATION PLAN



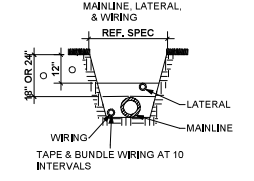
5 PEB VALVE
12" = 1'-0"



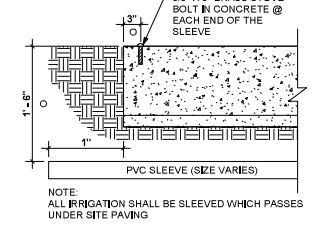
4 BACKFLOW PREVENTER
12" = 1'-0"



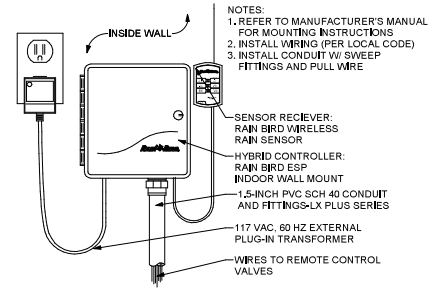
3 EMITTER DETAIL
12" = 1'-0"



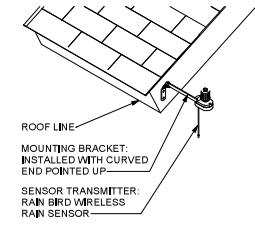
2 TRENCHING DETAIL
12" = 1'-0"



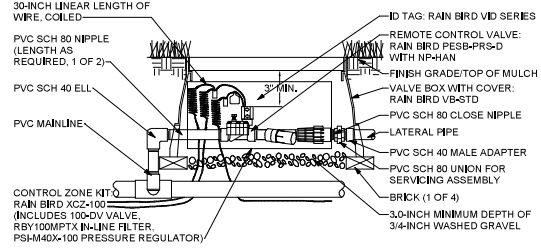
1 PVC SLEEVE DETAIL
N.T.S.



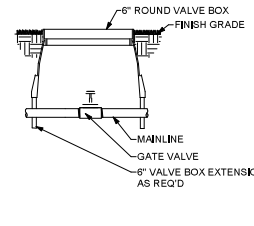
10 SPRINKLER CONTROLLER
12" = 1'-0"



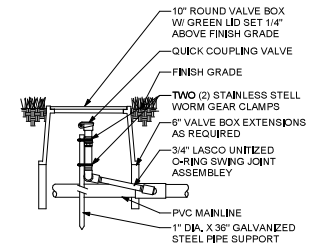
9 RAIN SENSOR
12" = 1'-0"



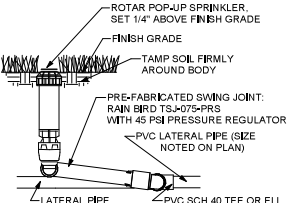
8 GATE VALVE DETAIL
12" = 1'-0"



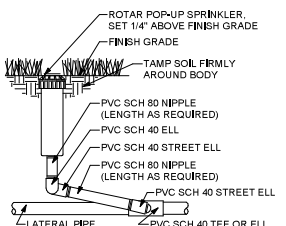
7 GATE VALVE DETAIL
12" = 1'-0"



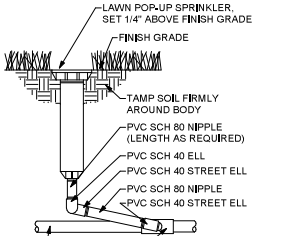
6 COUPLING VALVE
12" = 1'-0"



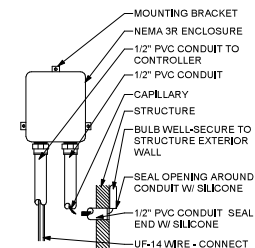
14 ROTOR 5000 SERIES HEAD
12" = 1'-0"



13 ROTOR 3500 SERIES HEAD
12" = 1'-0"



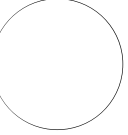
12 SPRAY 1800 SERIES HEAD
12" = 1'-0"



11 TEMPERATURE SENSOR
12" = 1'-0"



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L1.4

ABBREVIATION LIST

ACP	AUGER CAST PILE	MIN.	MINIMUM
ADD.	ADDITIONAL	MISC.	MISCELLANEOUS
ALT.	ALTERNATIVE	MPH	MILES/HOUR
ARCH.	ARCHITECT, ARCHITECTURAL	N/A	NOT APPLICABLE
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS	NS	NON-SHINK
BOS	BOTTOM OF STEEL	NTE	NOT TO EXCEED
BP	BASE PLATE	NTS	NOT TO SCALE
CJ	CONTROL JOINT	NWC	NORMAL WEIGHT CONCRETE
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
CL	CENTER LINE	OCN	ON CENTER EACH WAY
CMU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
COL	COLUMN	PAR.	PARALLEL
COMP.	COMPOSITE	PEMB	PRE-ENGINEERED METAL BUILDING
CONT.	CONTINUOUS	PERP.	PERPENDICULAR
CU	CUBIC	PJP	PARTIAL JOINT PENETRATION
Ø	BAR DIAMETER	P	PLASTICITY INDEX
DF	DOUGLAS FIR	LBS	POUNDS
DIA.	DIAMETER	PSF	POUNDS/SQUARE FOOT
EA.	EACH	PSI	POUNDS/SQUARE INCH
EXPAN.	EXPANSION JOINT	PSL	PARALLEL STRAND LUMBER
EMBED.	EMBEDMENT	PW	PUDDLE WELD
EN	ENDING	QA	QUALITY ASSURANCE
EOR	ENGINEER OF RECORD	QC	QUALITY CONTROL
EP	EMBED PLATE	QTY.	QUANTITY
EQ.	EQUAL	REC.	RECOMMENDED
EQUIP.	EQUIPMENT	REF.	REFERENCE
EXT.	EXTERIOR	REINF.	REINFORCEMENT
FFE	FINISH FLOOR ELEVATION	REQ.	REQUIRED
GA.	GAUGE	RFI	REQUEST FOR INFORMATION
GAUL.	GALVANIZED	SEC.	SECOND
GC	GENERAL CONTRACTOR	SF	SQUARE FEET
GFCM	GROUT FILLED CONCRETE MASONRY UNIT	SIM.	SIMILAR
GR.	GRADE	SPEC.	SPECIFICATION
HCA	HEADED CONCRETE ANCHOR	SPF	SUPPLY PINE FIR
IN"	SQUARE INCHES	STD.	STANDARD
INFO	INFORMATION	SYP	SOUTHERN YELLOW PINE
INT.	INTERIOR	T&B	TOP AND BOTTOM
K	KNOTS	TBS	TO BE SIZED
KD	KILN DRIED	THK.	THICKNESS
LBS	POUNDS	TJ	TRUSS JOINT/HOIST
LG	LIGHT GAUGE	TOT	TOP OF CONCRETE
LW	LIGHT WEIGHT	TOS	TOP OF STEEL
LSL	LAMINATED STRAND LUMBER	TSW	TOP SEAM WELD
LVL	LAMINATED VENEER LUMBER	TYP.	TYPICAL
LW	LIGHT WEIGHT	UNL	UNLESS NOTED OTHERWISE
MAX.	MAXIMUM	US	UNDERSIDE
MECH.	MECHANICAL	W	WITH
MEP	MECHANICAL, ELECTRICAL, PLUMBING	W/C	WATER-CEMENT RATIO
MFR.	MANUFACTURER	W/O	WITHOUT
ML	0.001"	W/W	WELDED WIRE FABRIC

GENERAL

- STRUCTURAL DESIGN BASED ON ARCHITECTURAL PLANS PROVIDED BY BROWN, REYNOLDS & WATFORD ARCHITECTS.
- FOR REFERENCED STANDARDS OF DESIGN AND CONSTRUCTION REFER TO CHAPTER 35 OF THE INTERNATIONAL BUILDING CODE (IBC), WHERE OTHER STANDARDS ARE NOTED IN THE DRAWINGS, USE THE LATEST EDITION OF THE STANDARD UNLESS A SPECIFIC DATE IS INDICATED. REFERENCE TO A SPECIFIC SECTION IN A CODE DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE ENTIRE STANDARD. ALL SPECIFICATIONS AND CODES NOTED SHALL BE THE LATEST APPROVED EDITIONS AND REVISIONS BY THE AUTHORITY HAVING JURISDICTION OVER THIS PROJECT.
- WHERE CONFLICTS EXIST AMONG THE VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS, STRUCTURAL DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS, THE STRICTEST REQUIREMENTS SHALL GOVERN UNLESS APPROVED OTHERWISE.
- STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, AND ARCHITECTURAL DRAWINGS. WHERE DISCREPANCIES OCCUR BETWEEN STRUCTURAL CONTRACT DOCUMENTS AND OTHER DISCIPLINES, THE STRUCTURAL ENGINEER SHALL BE CONTACTED.
- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST REVISIONS AND/OR ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, OR CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL FIELD VERIFY STRUCTURES NOTED IN THE DRAWINGS AS EXISTING. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AND STRUCTURAL ENGINEER.
- DO NOT SCALE DRAWINGS FOR QUANTITY, LENGTH, OR FIT OF MATERIALS.
- THE STRUCTURAL DRAWINGS ARE INTENDED TO SHOW THE GENERAL CHARACTER AND EXTENT OF THE PROJECT AND ARE NOT INTENDED TO SHOW ALL DETAILS OF THE WORK. DETAILS, SECTIONS, AND NOTES SHOWN ON THESE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS ELSEWHERE UNLESS NOTED OR SHOWN OTHERWISE. IF LOCATIONS ARE FOUND WHERE NO TYPICAL OR SPECIFIC DETAIL OR TYPICAL SCHEDULE APPLIES, NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND ALL JOB RELATED SAFETY STANDARDS SUCH AS OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING, BUT NOT LIMITED TO, ADEQUATE EXCAVATION PROCEDURES, SHORING, BRACING, AND ERECTION PROCEDURES COMPLYING WITH NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.
- THE STRUCTURE HAS BEEN DESIGNED FOR THE LOADS IDENTIFIED WITHIN THESE STRUCTURAL DRAWINGS THAT ARE ANTICIPATED TO BE APPLIED TO THE FINAL STRUCTURE ONCE COMPLETED AND OCCUPIED.
 - THESE DRAWINGS DO NOT DEPICT ANY SECONDARY STRUCTURAL ELEMENTS WHICH MAY BE REQUIRED UNLESS SPECIFICALLY NOTED OTHERWISE. SECONDARY STRUCTURAL ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO, SUPPORT BEAMS ABOVE THE PRIMARY ROOF STRUCTURE TO SUPPORT MECHANICAL EQUIPMENT, ROOF TOP MECHANICAL CURBS, ELEVATOR SUPPORT RAILS AND BEAMS, RETAINING WALLS INDEPENDENT OF THE PRIMARY BUILDING, LIGHT POLE OR FLAG POLE FOUNDATIONS, ANCHORAGE AND SUPPORT OF MECHANICAL AND ELECTRICAL EQUIPMENT/HUNG OUT WORK, NON-BEARING PARTITIONS, GUARD RAILS AND POSTS, STAIR FRAMING, STAIR RAILINGS, AND EXTERIOR CURTAIN WALLS AND CLADDING.
 - THE CONTRACTOR IS RESPONSIBLE FOR CHECKING THE ADEQUACY OF THE STRUCTURE TO SUPPORT ANY APPLIED CONSTRUCTION LOADS, INCLUDING, BUT NOT LIMITED TO, THOSE DUE TO CONSTRUCTION VEHICLES OR EQUIPMENT, MATERIAL HANDLING OR STORAGE, SHORING, OR RESHORING, AND ANY OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL CONTACT GESSNER ENGINEERING FOR ANY CONSTRUCTION LOADS THAT ARE IN EXCESS OF THE STATED DESIGN LOADS.
 - CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOFS AND SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. DO NOT IMPACT POURED OR ERECTED FLOORS OR ROOFS WHEN PLACING MATERIALS.
- THE BUILDING OWNER SHALL ESTABLISH A PLANNED PROGRAM OF MAINTENANCE TO ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. THIS PROGRAM SHALL INCLUDE, BUT IS NOT LIMITED TO: PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATING FOR CONCRETE, SEALANTS, CALKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO A CORROSIVE ENVIRONMENT.

DESIGN CRITERIA

- THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION AND TMA BUILDING CODE FOR WIND STORM CONSTRUCTION, 2018 EDITION.
- DEAD LOADS:
 - DESIGN DEAD LOADS INCLUDE THE WEIGHT OF THE STRUCTURE, MATERIALS, COMPONENTS, PERMANENT FIXTURES, AND 4 PSF MECHANICAL DUCT ALLOWANCE.
 - LOADING FOR MECHANICAL AND ELECTRICAL EQUIPMENT IS BASED ON THE WEIGHTS OF ASSUMED EQUIPMENT AS INDICATED ON THE STRUCTURAL DRAWINGS INCLUDING THE WEIGHT OF CONCRETE PADS WHERE INDICATED ON MEP DRAWINGS. ANY DISCREPANCIES OR CHANGES IN THE TYPE, SIZE, LOCATION, OR NUMBER OF PIECES OF EQUIPMENT SHOULD BE REPORTED TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO PLACEMENT OF EQUIPMENT.
 - MAXIMUM FACADE DEAD LOADS:

STONE/BRICK VENEER	40 PSF
CURTAIN WALLS	15 PSF
METAL PANEL	3 PSF
ROOFING ASSEMBLIES	8 PSF
- LIVE LOADS:
 - FOOTNOTES ACCORDING TO THE IBC AND ASCE 7 SHALL PERTAIN AS APPLICABLE.
 - IN AREAS WHERE MEMBERS ARE ERECTED OR WILL BE REARRANGED, AN ALLOWANCE OF 15 PSF HAS BEEN MADE FOR PARTITIONS AS A UNIFORMLY DISTRIBUTED LIVE LOAD WHERE THE LIVE LOAD AS STATED BELOW IS 80 PSF OR LESS.
 - DESIGN LIVE LOADS ARE BASED ON THE MORE RESTRICTIVE OF THE UNIFORM LOAD LISTED BELOW OR THE CONCENTRATED LOAD LISTED ACTING OVER AN AREA 2'-6" SQUARE OR, IN THE CASE OF PARKING GARAGES 20' IN, OR STAIR TREADS, 4' IN.
 - LIVE LOADS HAVE BEEN REDUCED USING THE STANDARD PROCEDURE FROM THE ABOVE REQUIREMENTS.
 - FOR LIVE LOADS EQUAL TO OR EXCEEDING 100 PSF, NO REDUCTION HAS BEEN MADE, EXCEPT THAT THE DESIGN LIVE LOAD ON MEMBERS SUPPORTING (2) OR MORE FLOORS HAS BEEN REDUCED A MAXIMUM OF 20% BUT THE LIVE LOAD IS NOT TO BE LESS THAN APPLICABLE REDUCTION LIMITS.
- REFERENCE THE LOADING PLANS, SHEET 50.3, FOR SPECIFIC INFORMATION.

CATEGORY	UNIFORM	CONCENTRATED
ASSEMBLY AREAS, LOBBIES, SUITES, PLAZAS, & TERRACES	100 PSF	2,000 LBS
BALCONIES & DECKS	NOTE 1	-
TOP OF AND ROOMS	40 PSF	1,000 LBS
CORRIDORS & EXITS	100 PSF	2,000 LBS
FIRST FLOOR	80 PSF	2,000 LBS
OTHER FLOORS	250 PSF	ASHITO H20
HEAVY VEHICLE/APPARATUS BAY	40 PSF	NOTE 2
MECHANICAL ROOMS	50 PSF	2,000 LBS
OFFICE FLOORS	60 PSF	-
RESTROOMS	70 PSF	-
ROOF	20 PSF	-
STAIRS	100 PSF	300 LBS
- 1.5 TIMES THE UNIFORM LOAD OF THE OCCUPANCY SERVED, NOT REQUIRED TO EXCEED 100 PSF.
- DESIGN CONCENTRATED LOAD IS THAT REQUIRED BY ASSUMED EQUIPMENT WEIGHT.

RISK CATEGORY OF BUILDING

- WIND DESIGN CRITERIA:
 - ULTIMATE DESIGN WIND SPEED (3 SEC. GUST, V_{ult}) 149 MPH
 - DESIGN WIND SPEED (V_{des}) $V_{ult} \times 0.8$
 - IMPORTANCE CATEGORY C
 - EXPOSURE CATEGORY C
 - INTERNAL PRESSURE COEFFICIENT (GCF) 0.18
 - DIRECTIONALITY FACTOR (K_d) 0.8
 - TOPOGRAPHY FACTOR (K_z) 1.0
 - BASE WIND PRESSURE (q_0) 45 psf

C&G WALL PRESSURE (PSF)	
ZONE 4	-58.3 +53.7
ZONE 5	-72.0 +53.7

NOTES:

1. $a = 6' - 4"$
2. PRESSURES ARE BASED OFF A 10 SF TRIBUTARY AREA
3. SITE FENCE DESIGNED FOR RISK CATEGORY I, WIND SPEED 134 MPH, & BASE PRESSURE 15 PSF.

SEISMIC DESIGN CRITERIA:

- IMPORTANCE CATEGORY (I) 1.0
- MAPPED SPECTRAL RESPONSE ACCELERATIONS:

S_s	0.063
S_1	0.017
- SITE CLASS B
- SPECTRAL RESPONSE COEFFICIENTS:

S_{DS}	0.101
S_{D1}	0.049
- SEISMIC DESIGN CATEGORY A
- BASIC SEISMIC FORCE-RESISTING SYSTEM TYPE 2 & 4
- SEISMIC RESPONSE COEFFICIENT (C_s) N/A
- RESPONSE MODIFICATION FACTOR (R) N/A (REF. SYSTEM TYPES)
- ANALYSIS PROCEDURE USED ASCE 7-16, SECTION 1.4.3
- SNOW DESIGN CRITERIA:

GROUND SNOW LOAD (P_g)	0 PSF
FLAT-ROOF SNOW LOAD (P_f)	0 PSF
EXPOSURE FACTOR (C_e)	1.0
IMPORTANCE FACTOR (C_i)	1.2
THERMAL FACTOR (C_t)	1.0

RAIN DESIGN CRITERIA:

- THE ROOF DRAINAGE SYSTEM SHALL BE DESIGNED SO THAT RAINWATER LOADS DO NOT EXCEED THE ROOF SNOW OR LIVE LOADS AS STATED IN THE APPLICABLE SECTION.

GEOTECHNICAL DESIGN CRITERIA:

- SOIL DESIGN PARAMETERS BELOW ARE BASED ON THE GEOTECHNICAL REPORT PROVIDED BY TOLLUNA-WONG ENGINEERS, INC., DATED JULY 2, 2024.
- THE FOLLOWING DESIGN INFORMATION IS PROVIDED SOLELY FOR REFERENCE AND IS NOT INTENDED TO SUPERSEDE ANY INFORMATION PROVIDED IN THE GEOTECHNICAL REPORT. SHOULD DISCREPANCIES EXIST THROUGHOUT THE DRAWINGS RELATIVE TO THE GEOTECHNICAL REPORT, THE CONTRACTOR SHALL CONTACT GESSNER ENGINEERING FOR ADDITIONAL INFORMATION.

ALLOWABLE BEARING CAPACITIES:

		CAPACITY (PSF)
SHALLOW BEARING	STRIP FOOTING ($F_5 = 2.3$)	6,000 / 4,000
	ISOLATED FOOTING ($F_5 = 2.3$)	6,000 / 4,000

NOTES:

1. FACTOR OF SAFETY (F_5) = (TOTAL LOAD), (DEAD + SUSTAINED LIVE)
2. CAPACITIES LISTED REFLECT THOSE SHOWN IN THE GEOTECHNICAL REPORT.
3. REF. DETAILS FOR MINIMUM BEARING DEPTHS.

SPECIAL INSPECTIONS AND REPORTS

- SPECIAL INSPECTIONS AND TESTING SHALL BE DONE IN ACCORDANCE WITH THE STATEMENT OF SPECIAL INSPECTIONS PER IBC CHAPTER 17, AS APPLICABLE PER THE FOLLOWING CRITERIA.
- THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (RDPRC) FOR THIS PROJECT SHALL BE THE ARCHITECT. THE ARCHITECT SHALL REVIEW THE SPECIAL INSPECTION REPORTS DIRECTLY TO THE RDPRC AND BUILDING OFFICIAL FOR REVIEW. THE RDPRC SHALL FORWARD ALL THE STRUCTURALLY RELATED SPECIAL INSPECTION REPORTS TO THE STRUCTURAL ENGINEER FOR REVIEW.
- SPECIAL INSPECTORS SHALL BE CONTRACTED BY THE OWNER OR THE OWNERS AUTHORIZED AGENT. SPECIAL INSPECTORS SHALL BE QUALIFIED PER THE REQUIREMENTS LISTED IN SECTION 1705.1 OF THE IBC.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TESTING, INSPECTIONS, AND NOTIFYING THE ARCHITECT/ENGINEER, SPECIAL INSPECTORS, AND BUILDING OFFICIAL PER SECTION 1703.3 OF WORK READY FOR INSPECTION. THE GENERAL CONTRACTOR MUST PROVIDE ACCESS TO AND MEANS FOR PROPER INSPECTION OF SUCH WORK.
- THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED, MOST CURRENT DESIGN DOCUMENTS AND SPECIFICATIONS, AND SHALL PROVIDE REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT/ENGINEER, AND OTHER DESIGNATED PERSONS.
- THE SPECIAL INSPECTOR SHALL REPORT ALL DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL.
- THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTORS KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND APPLICABLE STANDARDS OF QUALITY AND WORKMANSHIP OF THE IBC.
- ADDITIONAL INSPECTIONS MAY BE REQUIRED BY THE GOVERNING JURISDICTION. THE BELOW REQUIREMENTS ARE MINIMUM PROJECT STANDARDS.
- STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY A LICENSED DESIGN PROFESSIONAL OR THEIR REPRESENTATIVE DURING PERIODIC SITE VISITS FOR THE WORK LISTED BELOW. THIS DOES NOT CONSTITUTE A SPECIAL INSPECTION.
- CONCRETE CONSTRUCTION:
 - SPECIAL INSPECTIONS PER IBC SECTION 1705.3, FOR SPECIFIC INFORMATION:
 - PERIODIC INSPECTIONS:
 - PLACEMENT OF STEEL REINFORCEMENT.
 - WELDING OF STEEL REINFORCEMENT.
 - PLACEMENT OF HEADED BOLTS AND EMBEDDED FABRICATIONS.
 - VERIFY USE OF REQUIRED DESIGN MIXTURE.
 - VERIFY CURING PROCEDURES AND MAINTENANCE OF CURING TEMPERATURE.
 - VERIFY CONCRETE STRENGTH BEFORE REMOVAL OF SHORES AND FORMS FROM BEAMS AND SLABS.
 - CONTINUOUS INSPECTIONS:
 - PLACEMENT OF CONCRETE.
 - FABRICATION OF SPECIMENS FOR STRENGTH TEST, MINIMUM (1) SET FOR 100 YDS.
 - DETERMINATION OF SLUMP, AIR CONTENT, AND TEMPERATURE.
 - STRUCTURAL OBSERVATIONS:
 - OBSERVE PLACEMENT OF REINFORCING STEEL, ANCHOR ROBS, AND OTHER EMBEDDED COMPONENTS PRIOR TO PLACEMENT OF CONCRETE.

STRUCTURAL MASONRY

- SPECIAL INSPECTIONS PER IBC SECTION 1705.4 AND ACI 308.1.
 - PERIODIC INSPECTIONS:
 - VERIFY COMPLIANCE WITH APPROVED SUBMITTALS.
 - AS MASONRY CONSTRUCTION BEGINS, VERIFY THE FOLLOWING ARE IN COMPLIANCE:
 - PROPORTIONS OF SITE-PREPARED MORTAR.
 - CONSTRUCTION OF MORTAR JOINTS.
 - LOCATION OF REINFORCEMENT AND CONNECTORS.
 - PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:
 - GROUT SPACE.
 - GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS.
 - PLACEMENT OF REINFORCEMENT AND CONNECTORS.
 - PROPORTIONS OF SITE-PREPARED GROUT.
 - CONSTRUCTION OF MORTAR JOINTS.
 - DURING CONSTRUCTION, VERIFY THE FOLLOWING:
 - SIZE AND LOCATION OF STRUCTURAL ELEMENTS.
 - TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.
 - PROTECTION OF MASONRY DURING HOT WEATHER (ABOVE 90° F) OR COLD WEATHER (BELOW 40° F).
 - OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.
 - CONTINUOUS INSPECTION:
 - PLACEMENT OF REINFORCEMENT AND CONNECTORS.
 - GROUT SPACE PRIOR TO GROUTING.
 - TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION OF RETAINERS, MENT CONNECTORS, AND ANCHORAGES.
 - INSPECTION AND OBSERVATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS. MINIMUM (1) SET PER 5,000 SF OF WALL AREA.

SOILS CONSTRUCTION

- SPECIAL INSPECTIONS PER IBC SECTION 1705.6.
 - PERIODIC INSPECTIONS:
 - VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.
 - VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.
 - INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY PRIOR TO PLACEMENT OF COMPACTED FILL.
 - PERFORM CLASSIFICATION AND TESTING OF MATERIALS TO BE USED FOR FILL.
 - CONTINUOUS INSPECTIONS:
 - VERIFY USE OF PROPER MATERIALS, MOISTURE CONTENT, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.
 - REVIEW APPROVED GEOTECHNICAL REPORT FOR COMPLIANCE AND ADDITIONAL TESTING REQUIREMENTS.

STRUCTURAL STEEL

- SPECIAL INSPECTIONS PER IBC SECTION 1705.2 AND AISC 360, CHAPTERS M & N.
 - PERIODIC INSPECTIONS:
 - PRIOR TO THE START OF FABRICATION:
 - VERIFY SHOP DRAWINGS PER IBC CHAPTER 18, SECTIONS M2 AND N3, AND AWS D1.1 FOR COMPLETENESS AND ADEQUACY OF FABRICATION AND QUALITY CONTROL PROCEDURES.
 - INSPECTION PERSONNEL SHALL BE AN AWS CERTIFIED WELD INSPECTOR (CWI) UNLESS OTHERWISE APPROVED BY THE ENGINEER OF RECORD (EOR).
 - INSPECTION OF WELDING SHALL BE IN ACCORDANCE WITH TABLES N5.4-1, N5.4-2, AND N5.4-3.
 - NONDESTRUCTIVE TESTING OF WELDED JOINTS:
 - CP GROOVE WELDS OF MATERIALS IN THICKNESS EQUAL TO OR GREATER THAN 5/16" IS REQUIRED PER SECTION N5.5.
 - INSPECTION OF WELD STRENGTH BOLTING SHALL BE IN ACCORDANCE WITH TABLES N5.6-1, N5.6-2, AND N5.6-3.
 - INSPECTION OF GALVANIZED MATERIALS SHALL BE IN ACCORDANCE WITH SECTION N6.7.
 - INSPECT ERECTED STEEL FRAME FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
 - SPECIAL INSPECTION RESPONSIBILITIES BY THE OWNER ARE PERMITTED TO BE WAIVED WHEN THE REQUIREMENTS OF SECTION N6 ARE MET.
 - STRUCTURAL OBSERVATIONS:
 - REVIEW INSTALLATION OF FRAMING COMPONENTS AND CONNECTORS IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
- COLD-FORMED METAL DECK:
 - SPECIAL INSPECTIONS AND QUALIFICATION OF WELDING SPECIAL INSPECTORS FOR COLD-FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF THE STEEL DECK INSTITUTE (SDCI) QAIQC.
- COLD-FORMED METAL FRAMING:
 - SPECIAL INSPECTIONS:
 - PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH THE STRUCTURAL STEEL SECTION.
 - STRUCTURAL OBSERVATIONS:
 - REVIEW INSTALLATION OF FRAMING COMPONENTS AND CONNECTORS IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
- POST-INSTALLED ANCHORS TO CONCRETE AND MASONRY:
 - SPECIAL INSPECTIONS PER MANUFACTURER'S ICC EVALUATION REPORT OR AT A MINIMUM AS SPECIFIED BELOW.
 - PERIODIC INSPECTIONS:
 - INSPECT MECHANICAL ANCHORS AND ADHESIVE ANCHORS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.
 - CONTINUOUS INSPECTIONS:
 - ADHESIVE ANCHORS INSTALLED HORIZONTALLY OR UPWARDLY IN CORNER ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.
 - WIND RESISTANCE (PER IBC SECTION 1705.11):
 - PERIODIC INSPECTIONS (FOR WOOD & COLD-FORMED FRAMING):
 - INSPECT WALLING, SOIL ATTACHMENT, BOLTING, ANCHORING, AND OTHER FASTENING ELEMENTS OF THE MAIN WIND FORCE RESISTING SYSTEM, INCLUDING SHEAR WALLS, DIAPHRAGMS, DRAG STRUTS, BRACES, AND HOLD-DOWNS.
 - STRUCTURAL OBSERVATIONS:
 - INSPECT ROOF COVERING, ROOF DECK, AND ROOF FRAMING CONNECTIONS.
 - INSPECT EXTERIOR WALL COVERINGS & WALL CONNECTIONS TO THE ROOF, FLOOR, AND DIAPHRAGM FRAMING.
 - CONTINUOUS INSPECTIONS (FOR WOOD):
 - INSPECT GLUING OPERATIONS OF ELEMENTS OF THE MAIN WIND FORCE RESISTING SYSTEM.
 - CONTINUOUS INSPECTIONS (FOR COLD-FORMED FRAMING):
 - INSPECT WELDING OPERATIONS OF ELEMENTS OF THE MAIN WIND FORCE RESISTING SYSTEM.
 - EXCEPTIONS TO THE INSPECTIONS MAY BE MADE IN ACCORDANCE WITH THE CODE, AND AS APPROVED BY THE RDPRC.

STRUCTURAL SUBMITTALS

- SUBMIT TO THE ENGINEER FOR REVIEW APPROPRIATE SCHEDULES, SHOP DRAWINGS, SAMPLES, TEST REPORTS, AND PRODUCT DATA THAT IS RELATED TO THE STRUCTURAL PORTION OF THE WORK ACCORDING TO AIA DOCUMENT A201 GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION. NO WORK SHALL BE FABRICATED UNTIL THE ENGINEERS REVIEW HAS BEEN OBTAINED. PROVIDED IS A LIST OF STRUCTURAL SUBMITTALS REQUIRED FOR THIS PROJECT, AND REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
 - FABRICATE CONSTRUCTION DRAWINGS:
 - FOUNDATION REINFORCING STEEL
 - MASONRY WALL REINFORCING
 - STRUCTURAL STEEL
 - STRUCTURAL CAST-IN-PLACE COMPONENTS
 - STRUCTURAL ROOF AND FLOOR DECKING
 - DEFERRED SUBMITTALS TO BE SEALED BY THE RESPONSIBLE PARTY)
 - VOID FORMS
 - METAL STAIRS
 - METAL LADDERS
 - SUIDE POLES
 - GUARDRAIL AND HANDRAIL SYSTEMS
- SHALL RESET A LINEAR LOAD OF 50 PLF OR A CONCENTRATED LOAD OF 200 LBS PER LINEAL FOOT PER SECTION 1705.7.
 - PRE-FABRICATED AWNINGS AND CANOPIES
 - ELEVATORS
 - COLD FORMED METAL FRAMING
 - MECHANICAL CURBS AND CONNECTION TO STRUCTURE
- PRODUCT DATA SUBMITTALS
 - SOIL RETAINERS
 - VAPOR RETARDER
 - VOID FORMS AND ASSOCIATED COMPONENTS
 - CONCRETE MAX DESIGN
 - FACADE ATTACHMENTS
 - FASTENERS
 - STEEL MILL REPORTS AND WELDING CERTIFICATES
- REPORTS:
 - EARTHWORK BELOW BUILDING TESTING REPORTS
 - PIER MONITORING RESULTS
 - CONCRETE TEST RESULTS
 - CONCRETE MONITORING DURING PLACEMENT
 - MASONRY
 - STEEL

- THE CONTRACTOR SHALL REVIEW AND STAMP SHOP DRAWINGS PRIOR TO SUBMISSION TO THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL REVIEW FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS.
- CONTRACTOR SHALL SUBMIT EQUIPMENT PRODUCT DATA WHERE LOADING IS TO BE IMPARTED ON THE STRUCTURE DURING CONSTRUCTION FOR REVIEW. PRIOR TO SUBMITTING SHOP DRAWINGS TO THE ARCHITECT/ENGINEER AS INDICATED OR SPECIFIED FOR REVIEW PRIOR TO FABRICATION, REVIEW WILL BE FOR GENERAL CONFORMANCE WITH DESIGN INTENT CONVEYED IN THE CONTRACT DOCUMENTS.
- WHEN AN ENGINEER IS REQUIRED TO SIGN AND STAMP SHOP DRAWINGS AND CALCULATIONS, ENSURE SEAL INDICATES ENGINEER AS BEING REGISTERED IN THE STATE OF THE PROJECT.
- SHOP DRAWINGS ARE NOT A PART OF THE CONTRACT DOCUMENTS. THEREFORE, ARCHITECT/ENGINEER REVIEW DOES NOT CONSTITUTE AN AUTHORIZATION TO DEVIATE FROM TERMS AND CONDITIONS OF THE CONTRACT.
- THE ENGINEER REQUIRES (1) WORKING DATES AFTER RECEIPT OF SHOP DRAWINGS AND CALCULATIONS FOR PROCESSING.

GENERAL FOUNDATION

- DIMENSIONS OF FOUNDATION ELEMENTS INDICATE MINIMUM ACCEPTABLE SIZES. LARGER SIZES FORMED BY LESS ACCURATE CONSTRUCTION MAY REQUIRE ADDITIONAL REINFORCING NOT SHOWN, WHICH SHALL BE DETERMINED BY THE STRUCTURAL ENGINEER DURING THE CONSTRUCTION OBSERVATION PROCESS. CUT HAUNCHES ON EACH SIDE OF TRENCHES OF ADEQUATE SIZE TO MAINTAIN THE VERTICAL SIZES OF THE TRENCH.
- MINIMUM ELEVATION SHALL BE MAINTAINED THROUGHOUT THE STRUCTURE AND DEEPENED WHERE REQUIRED DUE TO DROPS.
- GRADE BEAMS AND FOOTINGS SHALL BE A MINIMUM OF 12" INTO COMPACTED STRUCTURAL FILL OR COMPETENT NATIVE SOIL. REDUCED PENETRATION DEPTHS INTO BEDROCK SHALL BE PER THE GEOTECHNICAL REPORT OR A MINIMUM OF 3'. WHERE NOTED, FOUNDATIONS SHALL BE CONSTRUCTED ON APPROVED VOID FORMS.
- PLACE MEP LINES BELOW SLABS AND OUTSIDE OF GRADE BEAMS AND FOOTINGS. DO NOT PLACE LINES PARALLEL WITH OR PARALLEL BELOW GRADE BEAMS AND FOOTINGS. REFERENCE TYPICAL DETAILS FOR ALLOWABLE PENETRATIONS PERPENDICULAR TO GRADE BEAMS, FOOTINGS AND SLABS. PROVIDE PROTECTION OF MEP LINES CROSSING GRADE BEAMS AND FOOTINGS THROUGHOUT THE CONSTRUCTION PROCESS.
- A 2'-4" PERVIOUS SAND OR GRANULAR LAYER MAY BE PLACED UNDER THE SLAB AT THE CONTRACTORS DISCRETION.
- EXTEND FORMWORK AT LEAST 6" BELOW THE FINISHED GRADE ELEVATION AT PERIMETER BEAMS.
- A VAPOR RETARDER SHALL BE PLACED UNDER ALL FOUNDATION CONCRETE.
- AT A MINIMUM THE VAPOR RETARDER SHALL CONFORM TO IBC "CLASS 1" WITH A PERMEANCE OF 0.1 PERMS (ASTM E2107 "CLASS C" AND AS 3022.2). IF A MINIMUM THICKNESS OF 15 MIL, WHERE ARCHITECTURAL PLANS CALL FOR SENSITIVE FLOOR MATERIALS, A VAPOR RETARDER EXCEEDING THE ABOVE SPECIFICATIONS MAY BE REQUIRED.
- VAPOR RETARDERS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM E1643, WITH THE MATERIAL CONTINUOUS BELOW FOUNDATION CONCRETE AREAS AND WITH JOINTS LAPPED AT LEAST 6" OR AS INSTRUCTED BY THE MANUFACTURER.
- SEAMS, TEARS, AND PENETRATIONS IN THE VAPOR RETARDER SHALL BE SEALED WITH THE MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE SENSITIVE TAPE.
- AT SLAB EDGES THE VAPOR RETARDER SHALL BE SEALED TO THE EXTERIOR FACE OF THE PERIMETER FOUNDATION ELEMENT.
- EXPANSION JOINTS SHALL BE FORMED BY A BITUMINOUS FILLER MATERIAL, COMPLYING WITH ASTM D771, ASPHALT-SATURATED CELLULOSE FIBRE, SET 1/2"-2" BELOW THE SURFACE IN ORDER TO FILL THE JOINT WITH A FLEXIBLE JOINT FILLER. EXTERIOR JOINTS SHALL BE SEALED WITH A TRAFFIC GRADE SEALANT.
- COORDINATE GROUNDING REQUIREMENTS WITH RELEVANT NATIONAL ELECTRICAL CODE REQUIREMENTS, OR AS SPECIFIED BY ELECTRICAL ENGINEER.

REINFORCEMENT

- ALL REINFORCEMENT WORK SHALL CONFORM TO THE FOLLOWING STANDARDS AND ANY STANDARDS REFERENCED THEREIN:
 - ACI 318 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - ACI 308 - DETAILS AND DETAILING OF CONCRETE REINFORCEMENT
- MATERIALS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - REINFORCEMENT - ASTM A615, GRADE 60
 - WELDED WIRE FABRIC - ASTM A185, SMOOTH, FLAT SHEET
- LAPS AND SPLICES IN REINFORCING BARS SHALL BE AS SCHEDULED OR AS REQ. FOR FULL DEVELOPMENT.
- BARs #3, #4, and #5 MAY BE COLD BENT IN THE FIELD. FIELD BENDING BEYOND #5 IS NOT PERMISSIBLE.
- REINFORCEMENT SHALL BE ADEQUATELY SECURED BY WIRE TIES AND SUPPORTED BY PLASTIC, METAL, OR MASONRY SUPPORTS. SPACING OF SUPPORTS SHALL BE AS NECESSARY TO PREVENT SAGGING OF THE REINFORCEMENT UNDER THE WEIGHT OF CONSTRUCTION WORKERS AND WET CONCRETE.
- WHERE REINFORCEMENT MUST TRANSITION BETWEEN STEPPED ELEMENTS, SLOPE SHALL NOT BE GREATER THAN 1:6 UNLESS NOTED OTHERWISE.
- CLEAN REINFORCEMENT OF LOOSE RUST AND MILL SCALE, EARTH, ICE, OR OTHER FOREIGN MATERIALS THAT MAY REDUCE BOND TO CONCRETE.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT FOR CAST-IN-PLACE CONCRETE CONSTRUCTION.

CONCRETE STRUCTURE	INTERIOR			EXTERIOR		
	TOP	SIDE	BOTTOM	TOP	SIDE	BOTTOM
BEAMS	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"
COLUMNS	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"
GRADE BEAMS/FOOTING W/O VAPOR RETARDER	1 1/2"	N/A	N/A	3"	3"	3"
GRADE BEAMS/FOOTING W/ VAPOR RETARDER	1 1/2"	2"	2"	2"	2"	2"
SLAB ON GRADE	3/4"	2"	2"	2"	2"	2"
WALLS	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"
WIDE PAN JOIST (BEAMS)	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"
DRILLED PIERS	N/A	N/A	N/A	3"	3"	3"

NOTES: *EXTERIOR* IS EXPOSURE TO EARTH OR WEATHER.

BUILDING MOVEMENTS

- THE BUILDING MOVEMENTS SPECIFIED HEREIN ARE ANTICIPATED TO OCCUR AND SHALL BE TAKEN INTO ACCOUNT BY THE CONTRACTOR IN THE DESIGN, DETAILING, AND INSTALLATION OF THE BUILDING ELEMENTS:
 - SPANDREL BEAM DEFLECTIONS: PROVISIONS SHALL BE MADE IN THE BUILDING CLADDING FOR RELATIVE FLOOR TO FLOOR VERTICAL DEFLECTIONS OF L/360.
 - INTERIOR FLOOR/ROOF DEFLECTIONS: PROVISIONS SHALL BE MADE IN INTERIOR PARTITIONS AND OTHER ELEMENTS SUPPORTED BY OR ATTACHED TO THE FLOORS OR ROOFS FOR RELATIVE FLOOR TO FLOOR VERTICAL DEFLECTION OF L/360.
 - LATERAL BUILDING DRIFT: PROVISIONS SHALL BE MADE IN BUILDING CLADDING AND OTHER ARCHITECTURAL FINISHES FOR RELATIVE FLOOR TO FLOOR LATERAL DEFLECTIONS OF STORY HEIGHT/400.

SLAB-ON-GRADE SITE PREPARATION

- ALL FILL PLACED BELOW THE FOUNDATION SLAB SHALL BE SELECT FILL CONSISTING OF A LOW PLASTICITY CLAYEY SOIL WITH A PLASTICITY INDEX BETWEEN 7 AND 20, A MAXIMUM GRAVEL CONTENT OF 40%, AND ROCKS NO LARGER THAN 2" IN THEIR LARGEST DIMENSION. ALTERNATIVELY, A CRUSHED Limestone BASE MATERIAL

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE FOLLOWING STANDARDS AND ANY STANDARDS REFERENCED THEREIN.
- ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE
 - ACI 308 - SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS
 - ACI 318 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
2. CONCRETE SHALL BE IN ACCORDANCE WITH THE TABLES BELOW UNLESS NOTED OTHERWISE.

CONCRETE MIX SCHEDULE					
CLASS	28 DAY STRENGTH (F ₁) (PSI)	MAX. W/C	SUMP	MAX. AGGREGATE SIZE	AIR CONTENT
A	3,000	0.55	5'-7"	1 1/2"	3%-6%
B	3,000	0.55	4'-6"	1 1/2"	3%-6%
C	4,000	0.55	4'-6"	1 1/2"	3%-6%
D	4,000	0.45	4'-6"	1 1/2"	≤ 1.5%
E	5,000	0.40	3'-5"	1"	6%-10%
F	4,000	0.50	4'-6"	3/4"	-
G	3,000	0.50	4'-6"	3/4"	-
H	2,000	0.55	5'-7"	3/4"	-

- NOTES:
1. CONCRETE SHALL BE NORMAL WEIGHT UNLESS NOTED OTHERWISE.
 2. FLY ASH MAY BE USED UP TO 25% REPLACEMENT OF PORTLAND CEMENT, EXCEPT AT POLISHED SLABS (LIMITED TO 15%) OR ARCHITECTUALLY EXPOSED CONCRETE (VERIFY WITH ARCHITECT).
 3. ALL MIXES SHALL UTILIZE A WATER REDUCING ADMIXTURE.
 4. AT POLISHED CONCRETE FINISHES, USE OF CURING COMPOUND IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT AND POLISHING SYSTEM MANUFACTURER.
 5. SUMP SLAB SHALL BE DETERMINED AT POINT OF PLACEMENT.
 6. FOR TOPPING SLAB LESS THAN 2" THICK, CONTRACTOR SHALL SUBMIT PROPRIETARY MIX DESIGN AND PREPARATION PROCEDURE FOR APPROVAL.

USE	CLASS
GRAB BEAMS	B
SLABS ON GRADE	B
POLISHED SLABS	B
FOOTINGS	F
CONCRETE ON METAL DECK	F
HOUSEKEEPING PADS	G
TOPPING SLABS (≥ 2")	G
TOPPING SLABS (< 2")	(NOTE 6)

3. MATERIALS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
- READY-MIXED CONCRETE - ASTM C94
 - PORTLAND CEMENT - ASTM C150, TYPE I/II
 - FLY ASH - ASTM C681, CLASS F OR C
 - NORMAL WEIGHT AGGREGATES - ASTM C33
 - LIGHT WEIGHT AGGREGATES - ASTM C1602
 - WATER - ASTM C1602
 - WATER-REDUCING, PLASTICIZING, AND RETARDING ADMIXTURE - ASTM C494
 - AIR ENTRAINING ADMIXTURE - ASTM C260
 - CURING COMPOUND - ASTM C309, TYPE 1, CLASS B
 - FLOOR SEALERS, HARDENERS, FINISHES, AND COVERINGS SHALL BE COMPATIBLE WITH CONCRETE PROPERTIES
4. READY-MIXED CONCRETE SHALL BE FURNISHED WITH BATCH TICKET INFORMATION. PROJECT SITE MIXING IS NOT ACCEPTABLE.
5. PLACEMENT OF CONCRETE SHALL BE COMPLETED WITHIN 90 MINUTES AFTER THE INTRODUCTION OF THE MIXING WATER, PER ASTM C94.
6. COLD WEATHER CONCRETE PLACEMENT SHALL COMPLY WITH ACI 306.1 AND AS FOLLOWS:
- A. WHEN AVERAGE HIGH AND LOW TEMPERATURE IS EXPECTED TO FALL BELOW 40°F FOR (3) CONSECUTIVE DAYS, MAINTAIN DELIVERED CONCRETE MIX TEMPERATURE WITHIN THE TEMPERATURE RANGE REQUIRED BY ACI 301.
 - B. DO NOT USE OR PLACE CONCRETE ON FROZEN MATERIALS OR MATERIALS CONTAINING ICE OR SNOW.
 - C. DO NOT USE CALCIUM CHLORIDE, SALT, OR OTHER MATERIALS CONTAINING ANTIFREEZE AGENTS OR CHEMICAL ACCELERATORS UNLESS APPROVED IN MIX DESIGNS.
 - D. PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH THAT COULD BE CAUSED BY FROST, FREEZING ACTIONS, OR LOW TEMPERATURES.
7. HOT WEATHER CONCRETE PLACEMENT SHALL COMPLY WITH ACI 305.1 AND AS FOLLOWS:
- A. MAINTAIN CONCRETE TEMPERATURE BELOW 95°F AT TIME OF PLACEMENT.
 - B. CHILLED MIXING WATER OR CHOPPED ICE MAY BE USED TO CONTROL TEMPERATURE, PROVIDED WATER EQUIVALENT OF ICE IS CALCULATED TO TOTAL AMOUNT OF MIXING WATER.
8. BEFORE TEST SAMPLING AND PLACING OF CONCRETE, WATER MAY BE ADDED TO THE PROJECT SITE, SUBJECT TO THE LIMITATIONS OF ACI 308.1. DO NOT ADD WATER TO THE CONCRETE AFTER ADDING HIGH-RANGE WATER-REDUCING ADMIXTURES.
9. SECURELY POSITION ALL ITEMS TO BE CAST IN PLACE SUCH AS REINFORCING DOWELS, ANCHORS, SLEEVES, ETC. PRIOR TO PLACEMENT OF CONCRETE.
10. EMBEDDED CONDUITS, PIPES, AND SLEEVES SHALL MEET THE REQUIREMENTS OF ACI 318. REFERENCE TYPICAL DETAILS FOR ALLOWABLE PENETRATIONS AND ADDITIONAL REQUIRED REINFORCEMENT.
11. PLACE ALL VERTICAL CONSTRUCTION JOINTS IN THE CENTER OF SPANS IN ACCORDANCE WITH THE TYPICAL DETAILS. CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS FOR CONSTRUCTION JOINTS NOT SHOWN ON STRUCTURAL DRAWINGS FOR REVIEW BY THE ARCHITECT AND ENGINEER.
12. FOOTING, GRADE BEAM, AND SLAB AREAS SHALL BE CLEANED OF DEBRIS AND STANDING WATER PRIOR TO POURING CONCRETE.
13. WHERE NOTED, SAW CUT JOINTS SHALL BE CUT AS SOON AS THE CONCRETE HAS OBTAINED ADEQUATE STRENGTH TO RESIST RAVELLING OF THE JOINT EDGES, GENERALLY BETWEEN 10 TO 12 HOURS AFTER THE CONCRETE HAS BEEN FINISHED. HOWEVER, IF ENTRY IS DELAYED TOO LONG, SAWING CAN BECOME DIFFICULT AND UNCONTROLLED CRACKING MAY OCCUR. THE BEST TIME FOR SAWING SHALL BE DETERMINED IN THE FIELD AS TIMING MAY VARY BASED ON MIX DESIGN, PLACEMENT, AND CURING CONDITIONS. SAW CUTS SHALL BE A MINIMUM 1/4" OF THE SLAB THICKNESS, UNLESS NOTED OTHERWISE, WITH REINFORCEMENT CONTINUOUS THROUGH SAW CUTS IN ACCORDANCE WITH THE CONTROL JOINT DETAIL. DO NOT SAWCUT ELEVATED SLABS OR SLABS OVER VOID FORMS.
14. CONCRETE SHALL REACH 70% OF THE SPECIFIED 28 DAY COMPRESSIVE STRENGTH AND BE IN PLACE FOR 7 DAYS PRIOR TO REMOVAL OF FORMS OR CONSTRUCTION ON TOP OF THE SLAB.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING STANDARDS AND ANY STANDARDS REFERENCED THEREIN:
- AISC 303 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
 - AISC 360 - SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS
 - AISC 341 - SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS
 - AISC 358 - SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS
 - AISC 15.1 - STRUCTURAL WELDING CODE - STEEL
 - AISC D6 - STRUCTURAL STAINLESS STEEL
 - AWS D1.6 - STRUCTURAL WELDING CODE - STAINLESS STEEL
2. CONCRETE SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS, UNLESS NOTED OTHERWISE:
- W & WT SHAPES - ASTM A992, GRADE 50
 - C, S, & ST SHAPES - ASTM A36
 - ANGLE SHAPES - ASTM A36
 - STRUCTURAL PIPES - ASTM A53, GRADE B
 - ROUND HSS SHAPES - ASTM A500, GRADE C
 - SQUARE & RECTANGULAR HSS SHAPES - ASTM A500, GRADE C
 - STRUCTURAL PLATE & BARS - ASTM A36 OR ASTM A572 GRADE 50 AS NOTED
 - HIGH STRENGTH BOLTS - ASTM A505 (MECHANICALLY GALVANIZED) OR ASTM A490 (BLACK)
 - NUTS - ASTM A563 (MECHANICALLY GALVANIZED)
 - HARDENED STEEL WASHERS - ASTM F436
 - COMPRESSIBLE STEEL WASHERS - ASTM F599
 - HEADED CONCRETE ANCHORS - AWS D1.1 CLAUSE 7 TYPE B
 - DEFORMED BAR ANCHORS - ASTM A054
 - ANCHOR RODS (STANDARD) - ASTM F1554, GRADE 36
 - ANCHOR RODS (HIGH STRENGTH) - ASTM F1554, GRADE 55, WELDABLE
 - THREADED RODS - ASTM A36
 - WELDING ELECTRODES - AWS CLASS E70XX
3. STRUCTURAL STEEL FABRICATOR TO BE REGISTERED AND APPROVED TO PERFORM SHOP WORK IN ACCORDANCE WITH SECTION 1704.2.5.2 OF THE EBCAC ACCEPTABLE CERTIFICATIONS INCLUDE THOSE PROVIDED BY AISC OR AWS.
4. DIMENSIONAL TOLERANCES OF FABRICATED STRUCTURAL STEEL SHALL CONFORM TO SECTION 6.4 OF THE AISC CODE OF STANDARD PRACTICE UNLESS NOTED OTHERWISE.
5. FABRICATE AND ASSEMBLE STRUCTURAL MEMBERS/ASSEMBLIES IN SHOP TO GREATEST EXTENT POSSIBLE.
6. ENDS OF COLUMNS AT SPICES AND AT OTHER BEARING CONNECTIONS SHALL BE FINISHED TO BEAR TO COMPLETE TRUE BEARING.
7. PROVIDE STIFFENERS FINISHED TO BEAR UNDER ALL LOAD CONCENTRATIONS ON SUPPORTING MEMBERS OVER COLUMNS, AND WHERE SHOWN ON DRAWINGS.
8. WORKING POINTS FOR VERTICAL BRACING SHALL BE AT THE INTERSECTION OF THE COLUMN CENTERLINE AND THE BEAM CENTERLINE UNLESS NOTED OTHERWISE. WORKING POINTS FOR VERTICAL BRACING AT COLUMN BASE PLATES SHALL BE AT THE INTERSECTION OF COLUMN CENTERLINE AND THE TOP OF THE BASE PLATE.
9. BEAMS SHALL BE CAMBERED UPWARD WHERE SHOWN ON THE CONTRACT DOCUMENTS, WHERE NO UPWARD CAMBER IS INDICATED, ANY MILL CAMBER SHALL BE DETAILED UPWARD IN THE BEAMS.
10. ALL STRUCTURAL STEEL MEMBERS, ASSEMBLIES, AND HARDWARE EXPOSED TO WEATHER OR INDICATED ON THE DRAWINGS SHALL BE EITHER HOT-DIP GALVANIZED OR PRIMED AND PAINTED. REPAIR ANY MEMBERS WELDED OR DAMAGED AFTER SURFACE PREPARATION WITH ZINC RICH PAINT OR APPROVED ALTERNATE.
11. ALL STRUCTURAL STEEL MEMBERS, ASSEMBLIES, AND HARDWARE SHALL BE SHIPPED WITH ONE COAT OF SHOP PRIMER EXCEPT THOSE MEMBERS THAT ARE GALVANIZED OR IN AREAS SCHEDULED TO RECEIVE THE PROOFING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AREAS TO BE FIRE PROOFED PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
12. ALL EXPOSED TO-HEAVY MEMBERS SHALL MEET THE REQUIREMENTS OF AISC FOR ARCHITECTUALLY EXPOSED STRUCTURAL STEEL.
13. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AS TO LOCATION, TYPE OF SPLICE, AND CONNECTION TO BE MADE.
14. DECK EDGE ANGLES SHALL BE CONTINUOUS AND SHALL BE SPICED ONLY AT SUPPORTS. SPLICES SHALL BE BUTT WELDED TO DEVELOP FULL CAPACITY OF THE MEMBER.
15. DO NOT CUT STRUCTURAL STEEL MEMBERS UNLESS SO INDICATED IN THE DRAWINGS OR AS REVIEWED BY THE ENGINEER.
16. STRUCTURAL STEEL FRAMING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS ARE FULLY BOLTED OR WELDED.
17. COLUMN BASE PLATES, LEVELING PLATES, OR BEARING PLATES SHALL BE SET TO THE ELEVATION INDICATED ON THE STRUCTURAL DRAWINGS AND LEVELED USING SHIMS OR JAM NUTS AND WASHERS ON ANCHOR BOLTS. BASE PLATES SHALL THEN BE GROUDED. GROUT SHALL BE WITH NON-SHRINK, NON-METALLIC GROUT WITH MINIMUM 7 DAY COMPRESSIVE STRENGTH EQUAL TO TWICE THE 28 DAY STRENGTH OF THE SUPPORTING CONCRETE. COMPLETE GROUT WORK BEFORE PLACING CONCRETE ON LEVELS ABOVE WHERE APPLICABLE. ANCHOR BOLTS SHALL BE PRESET USING TEMPLATES OR SIMILAR METHODS. TIGHTEN ANCHOR BOLTS AFTER SUPPORTED MEMBERS HAVE BEEN POSITIONED AND PLUMBED. HOLE SIZES IN BASE PLATES SHALL BE OVERSIZED PER AISC SECTION 13.2.
18. HEADED CONCRETE ANCHORS AND DEFORMED BAR ANCHORS SHALL BE AUTOMATICALLY END WELDED WITH SUITABLE STUP WELDING EQUIPMENT IN THE SHOP OR IN THE FIELD. WELDING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.
19. BOLT CONNECTION SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
- A. BOLTS SHALL BE 3/4" DIAMETER AND CONFORM TO ASTM A325.
 - B. BOLTS SHALL BE TIGHTENED TO "SNUG TIGHT" AS DEFINED BY AISC.
 - C. BOLTS NOTED AS "SLIP CRITICAL" SHALL BE TIGHTENED TO THE MINIMUM PRE-TENSIONED AMOUNTS ACCORDING TO SECTION 1 OF THE AISC SPECIFICATION USING ONE OF THE FOLLOWING METHODS:
 - TURN-OF-THE-NUT
 - CALIBRATED TORQUE WRENCH
 - TWIST-OFF TYPE TENSION CONTROL
 - DIRECT TENSION INDICATOR
 - D. PROVIDE WASHERS AND SLIP CRITICAL BOLTS FOR OVERSIZED AND SLOTTED CONNECTIONS.
20. FOR CONNECTIONS NOT SPECIFIED BY THESE NOTES OR STRUCTURAL DRAWINGS, PROVIDE FILLET WELDS AT ALL CONTACT SURFACES SUFFICIENT TO DEVELOP THE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT.
21. FILLET WELDS WITH NO SIZE SPECIFIED SHALL BE 3/16" OR MINIMUM SIZE REQUIRED BY AISC, WHICHEVER IS LARGER.

STEEL CONNECTIONS

1. ALL STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO REQUIREMENTS DETAILED IN THE "STRUCTURAL STEEL" NOTES AND ALL FOLLOWING PARAMETERS.
2. STRUCTURAL STEEL CONNECTIONS NOT FULLY DETAILED IN THE STRUCTURAL DOCUMENTS SHALL BE DESIGNED AND DETAILED BY THE CONTRACTOR AND THE STEEL FABRICATOR, UNDER THE DIRECT SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE IN WHICH THE PROJECT IS TO BE CONSTRUCTED.
3. CONCEPTUAL CONNECTION DETAILS ARE SHOWN ON THE DRAWINGS AND ARE APPLICABLE TO ALL CONNECTIONS NOT DESIGNED AND FULLY DETAILED IN THE DRAWINGS. THEY ARE PROVIDED ONLY TO INDICATE THE CONNECTION TYPE REQUIRED AND MAY NOT FULLY REPRESENT THE COMPLEXITY OF THE CONNECTION AS REQUIRED BY THE FINAL CONNECTION DESIGN.
4. ADDITIONAL CONNECTION ELEMENTS NOT SHOWN ON TYPICAL OR CONCEPTUAL DETAILS MAY BE REQUIRED BY THE FINAL CONNECTION DESIGN, SUCH AS STIFFENER PLATES, DOUBLER PLATES, SUPPLEMENTAL REINFORCING PLATES, OR OTHER CONNECTION MATERIAL. THE FABRICATOR'S LICENSED PROFESSIONAL ENGINEER IS RESPONSIBLE FOR SPECIFICATION OF THESE ELEMENTS OR CONVEYANCE OF THESE ADDITIONAL REQUIREMENTS TO THE ENGINEER OF RECORD FOR SPECIFICATION.
5. THE FABRICATOR'S LICENSED PROFESSIONAL ENGINEER IN RESPONSIBLE CHARGE OF THE CONNECTION DESIGN SHALL REVIEW AND CONFIRM IN WRITING THAT THE SHOP AND ERECTION DRAWINGS PROPERLY INCORPORATE THE CONNECTION DESIGNS PRIOR TO SUBMITTING THE CONNECTION CALCULATION AND SHOP DRAWINGS TO THE ENGINEER-OF-RECORD FOR REVIEW.
6. SEALED CALCULATIONS FOR ALL CONNECTIONS DESIGNED BY THE FABRICATOR'S LICENSED PROFESSIONAL ENGINEER SHALL BE SUBMITTED FOR REVIEW.
7. CONNECTION DESIGN SHALL BE RELATED TO AND/OR REFERENCE THE SUBMITTED SHOP DRAWINGS TO FACILITATE REVIEW.
8. ALL BEAM SHEARS, REACTIONS, MEMBER FORCES, MOMENTS, ETC. SHOWN ON THE STRUCTURAL DRAWINGS ARE FACTORED LOADS CONFORMING TO THE REQUIREMENTS OF AISC LOAD AND RESISTANCE FACTOR DESIGN (LRFD).
9. WHERE STIFFENER PLATES ARE INDICATED ON THE DRAWINGS, THEY ARE REQUIRED AND SHALL BE PROVIDED AS INDICATED. WHERE SIZES ARE NOT INDICATED, WEB STIFFENERS SHALL BE A MINIMUM 3/8 INCH THICK, OR THE THICKNESS OF THE BEAM WEB, WHICHEVER IS LARGER.
10. SHEAR CONNECTIONS
- A. WHERE INDICATED, SHEAR CONNECTIONS SHALL BE DESIGNED FOR THE FORCES INDICATED ON THE STRUCTURAL DRAWINGS. SHEARS ARE INDICATED AT BEAM ENDS AS "V" IF AT THE GIVEN MEMBER END.
 - B. BEAMS SHALL BE DESIGNED TO DEVELOP FORCES INDICATED ON DRAWINGS, BUT NOT LESS THAN A MINIMUM END SHEAR REACTION OF FACTORED 10.0 KIPS.
 - C. SHEAR CONNECTIONS SHALL BE DESIGNED AS BOLTED CONNECTIONS, UNLESS WELDED TAB CONNECTIONS ARE PREFERRED FOR CONSTRUCTABILITY AND APPROVED OTHERWISE.
 - A. THE MINIMUM NUMBER OF ROWS OF BOLTS SHALL BE 1/6 OF THE BEAM DEPTH WITH ONE FRAC TO BE ROUNDED TO THE NEXT HIGHEST MEMBER, WHERE CONSTRUCTABILITY DICTATES SHALLOWER CONNECTIONS, ALTERNATIVES MAY BE PROPOSED AND WILL BE REVIEWED ACCORDINGLY.
11. MOMENT CONNECTIONS
- A. WHERE INDICATED, MOMENT CONNECTIONS SHALL BE DESIGNED FOR THE FORCES INDICATED ON THE STRUCTURAL DRAWINGS. MOMENTS ARE INDICATED AS "M-".
 - B. MOMENT CONNECTIONS SHALL BE DESIGNED TO DEVELOP THE FULL CAPACITY OF THE BEAM IF NOT INDICATED ON THE STRUCTURAL DRAWINGS.
 - C. MOMENT CONNECTIONS SHALL BE DESIGNED AS WELDED CONNECTIONS, UNLESS DETAILED OR APPROVED OTHERWISE.
12. AXIAL FORCES ON BEAMS
- A. DESIGN BEAM CONNECTIONS FOR ADDITIONAL HORIZONTAL FORCES WHERE INDICATED.
13. MAIN FRAME BRACE AND TRUSS CONNECTIONS:
- A. CONNECTIONS SHALL BE WELDED UNLESS DETAILED OR APPROVED OTHERWISE.
 - B. CONNECTIONS SHALL BE DESIGNED FOR THE FORCES INDICATED ON THE STRUCTURAL DRAWINGS.
14. STEEL-TO-STEEL BOLTED CONNECTIONS:
- A. SHORT SLOTTED HOLES ARE PERMITTED PROVIDED HARDENED WASHERS ARE INSTALLED IN ACCORDANCE WITH AISC REQUIREMENTS, WHERE HORIZONTAL FORCES ARE SPECIFIED ON THE DRAWINGS.
 - SHORT SLOTTED HOLES ARE NOT PERMITTED PARALLEL TO THE LOAD AXIS.
 - B. ALL BOLTS SHALL BE 1/2 INCH DIAMETER AND CONFORM TO ASTM A325, UNLESS NOTED OTHERWISE. BOLTS SHALL BE DESIGNED USING VALUES FOR BEARING TYPE BOLTS WITH THREADS ALLOWED IN THE SHEAR PLANE.
 - C. BOLTS SHALL BE TIGHTENED TO "SNUG TIGHT" AS DEFINED BY AISC, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DOCUMENTS OR ON THE SEALED CONNECTION DESIGN SUBMITTAL.
 - D. BOLTS NOTED AS "SLIP CRITICAL" (SC) ON THE DOCUMENTS SHALL BE TIGHTENED TO THE MINIMUM PRE-TENSIONED AMOUNTS ACCORDING TO SECTION 1 OF THE AISC SPECIFICATION USING ONE OF THE FOLLOWING METHODS: TURN-OF-THE-NUT METHOD, CALIBRATED TORQUE WRENCH, TWIST-OFF TYPE TENSION CONTROL, OR DIRECT TENSION INDICATORS.
15. WELDED CONNECTIONS:
- A. ALL WELDING SHALL CONFORM TO AWS A5.1, LATEST EDITION. MINIMUM FILLET WELD SIZE SHALL BE 3/16 INCHES OR THAT REQUIRED BY AISC, WHICHEVER IS LARGER.
 - B. FOR CONNECTIONS NOT SPECIFIED BY THESE NOTES OR STRUCTURAL DRAWINGS, PROVIDE FILLET WELDS AT ALL CONTACT SURFACES SUFFICIENT TO DEVELOP THE FULL TENSILE STRENGTH OF THE SMALLEST MEMBER BEING JOINED.
16. BASE PLATES:
- A. COLUMN BASE PLATES, LEVELING PLATES, OR BEARING PLATES SHALL BE SET TO THE ELEVATION INDICATED ON THE STRUCTURAL DRAWINGS AND LEVELED USING SHIMS OR JAM NUTS AND WASHERS ON ANCHOR BOLTS. BASE PLATES SHALL THEN BE GROUDED WITH NON-SHRINK, NON-METALLIC GROUT WITH A MINIMUM 7 DAY COMPRESSIVE STRENGTH EQUAL TO TWICE THE 28-DAY STRENGTH OF THE SUPPORTING CONCRETE. COMPLETE GROUT WORK BEFORE PLACING CONCRETE ON LEVELS ABOVE (WHERE APPLICABLE). TIGHTEN ANCHOR BOLTS AFTER SUPPORTED MEMBERS HAVE BEEN POSITIONED AND PLUMBED.
 - B. ANCHOR BOLTS SHALL BE PRESET USING TEMPLATES OR SIMILAR METHODS.
 - C. HOLE SIZES IN BASE PLATES SHALL BE OVERSIZED WITH ASTM A36 PLATE WASHERS PER AISC TABLE 14.2.

COMPOSITE METAL DECK AND CONCRETE SLAB

1. COMPOSITE METAL DECK SHALL BE WULF-CRAFT VUL OR APPROVED EQUAL WITH THE FOLLOWING PARAMETERS:
- | LOCATION | DECK DEPTH | GAUGE | CONCRETE TYPE | TOTAL THICKNESS | FY (KSI) |
|------------|------------|-------|---------------|-----------------|----------|
| ALL FLOORS | 2" | 18 | NWT | 6" | 50 |
2. SHEET STEEL FOR COMPOSITE DECK AND ACCESSORIES SHALL CONFORM TO ASTM A653 STRUCTURAL QUALITY. GALVANIZING SHALL CONFORM TO ASTM A653 WITH A MINIMUM COATING CLASS OF 60 (TYPICAL AT ALL LOCATIONS) AS DEFINED IN ASTM A653.
3. DECK SHALL BE CONSTRUCTED IN A TWO OR THREE-SPAN CONDITION (10'-0" MAX.) SO AS NOT TO REQUIRE ANY INTERMEDIATE SHORING TO SUPPORT CONSTRUCTION LOADS AND WET CONCRETE, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS. DECK THAT ARE CONSTRUCTED IN LESS THAN A TWO-SPAN CONDITION SHALL BE SHORED AS NEEDED.
4. REINFORCE THE SLAB OVER THE COMPOSITE DECK WITH #6-W25XW2.9 WELDED WIRE MESH CHAINED TO BE LOCATED 3/4" BELOW THE TOP OF THE SLAB. PROVIDE A 4'-0" WIDE EXTRA LAYER OF MESH OVER ALL INTERIOR BEAMS AND ORDERS SPANNING PARALLEL TO THE DECK SPAN.
5. METAL EDGE FORMS SHALL BE AS NOTED ON THE DRAWINGS. WELD EDGE FORM TO SUPPORTING BEAMS AT 12" SPACING, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
6. SLABS OVER COMPOSITE DECK SHALL BE PLACED AND FINISHED TO PROVIDE A FLOOR WITHIN SPECIFIED TOLERANCES. SLAB THICKNESSES MAY VARY AWAY FROM THE COLUMNS DUE TO DEFLECTIONS OF THE BEAMS AND DECK. THE CONTRACTOR SHALL ACCOUNT FOR EXTRA CONCRETE NEEDED TO PROVIDE A LEVEL FLOOR DUE TO BEAM DEFLECTION.
7. HEADED STUDS NOTED ON BEAMS SHALL BE 3/4" Ø X 4 1/2" LONG, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
8. INSTALL DECK ENDS OVER SUPPORTING FRAME WITH A MINIMUM END BEARING OF 2".
9. FASTEN FLOOR DECK PANELS TO STEEL SUPPORTING MEMBERS WITH 1/2" Ø PUDDLE WELDS AS FOLLOWS:
- A. PERPENDICULAR TO FRAMING: EACH DECK FLUTE AT EACH SUPPORT.
 - B. PARALLEL TO SUPPORTS: 12" OC.
 - C. SHEAR CONNECTIONS WELDED THROUGH DECK CAN REPLACE A REQUIRED DECK WELD.
10. FASTEN SIDE LAPERS AND PERIMETER EDGES OF PANELS BETWEEN SUPPORTS, AT INTERVALS NOT EXCEEDING THE LESSER OF 1/2 OF THE SPAN OR 36" USING ONE OF THE FOLLOWING METHODS:
- A. MECHANICALLY FASTEN WITH SELF-DRILLING NO. 10 Ø SCREWS.
 - B. CRIMP OR BUTT PUNCH.
 - C. ARC-SPOT (PUDDLE) WELDS 5/8" NOMINAL DIAMETER.
 - D. FILLET WELDS, 1" LONG MINIMUM.
11. DO NOT USE ADMIXTURES WITH CHLORIDE SALTS IN CONCRETE FOR SLABS OVER METAL DECK.
12. ALL OPENINGS GREATER THAN 6'-0" X 6'-0" IN PLAN (6'-0" DEPTH) SHALL BE REINFORCED IN ACCORDANCE WITH THE STRUCTURAL DETAILS.

POST-INSTALLED ANCHORS AND DOWELS

1. EXPANSION ANCHORS SHALL BE ONE OF THE FOLLOWING:
- A. CONCRETE
 - a. KWIK-BOLT T2, HIT-INC.
 - B. STRONG-BOLT, SIMPSON STRONG-TIE
 - C. BROUDED MASONRY
 - a. KWIK-BOLT T3, HIT-INC.
 - b. WEDGE-ALL, SIMPSON STRONG-TIE
 - D. SCREW ANCHORS SHALL BE ONE OF THE FOLLOWING
 - A. CONCRETE/GROUTED MASONRY
 - a. TITEN HD, SIMPSON STRONG-TIE
 - b. KWIK-HUS EZ, HIT-INC.
 - B. ADHESIVE ANCHORS SHALL UTILIZE ONE OF THE FOLLOWING
 - A. CONCRETE
 - a. HIT-RE 500-V3, HIT-INC.
 - b. SET-XP, SIMPSON STRONG-TIE
 - B. GROUTED MASONRY
 - a. HIT-RE 500-V3, HIT-INC.
 - b. SET-XP, SIMPSON STRONG-TIE
 - E. ADHESIVE DOWELING SHALL USE UTILIZE ONE OF THE FOLLOWING
 - A. HIT-RE 500-V3, HIT-INC.
 - B. SET-XP, SIMPSON STRONG-TIE
2. INSTALL DOWELS IN ACCORDANCE WITH THE ADHESIVE MANUFACTURER'S INSTRUCTIONS
3. CLEAN OUT HOLES WITH COMPRESSED AIR AFTER DRILLING.
4. PRIOR TO DRILLING HOLES, LOCATE EXISTING REINFORCING STEEL THROUGH SCANNING OR BY DRILLING 1/4" DIAMETER PILOT HOLES. RELOCATE BOLT HOLES AS REQUIRED TO AVOID EXISTING REINFORCEMENT.
5. ABANDONED HOLES SHALL BE COMPLETELY FILLED WITH ADHESIVE DOWELING COMPOUND
6. ANCHOR AND DOWELS OF THE SIZE AND EMBEDMENT SHOWN ON THE DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE MANUFACTURER'S RECOMMENDATIONS, AND THE MANUFACTURER'S CURRENT ICC ESR REPORT FOR THE ANCHOR. IF CONFLICTS EXIST BETWEEN THESE REFERENCED DOCUMENTS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.

METAL ROOF DECK

1. METAL ROOF DECK SHALL BE AS FOLLOWS:
- | LOCATION | GAUGE | SDI DECK TYPE | DECK DEPTH (IN.) | SHEET WIDTH (IN.) | MIN. I _y (IN. ⁴) | MIN. S _x (IN. ³) | MIN. S _y (IN. ³) |
|----------|-------|---------------|------------------|-------------------|---|---|---|
| TYP. UNO | 20 | WR | 3" | 32 | 0.806 | 0.448 | 0.476 |
2. S_x - POSITIVE SECTION MODULUS IN I
3. S_y - NEGATIVE SECTION MODULUS IN I
4. I_y - MOMENT OF INERTIA IN I
5. 2020 - CELLULAR DECK GAUGE (HAT/PAN)
6. SHEET STEEL FOR GALVANIZED ROOF DECK AND ACCESSORIES SHALL CONFORM TO ASTM A653 STRUCTURAL STEEL, WITH A MINIMUM YIELD STRENGTH OF 33 KSI AND A MAXIMUM YIELD STRENGTH OF 80 KSI. GALVANIZING SHALL CONFORM TO ASTM A653 WITH A MINIMUM COATING OF 60 (TYPICAL AT ALL LOCATIONS) AS DEFINED IN ASTM A653.
7. CHAINED TO BE LOCATED 3/4" BELOW THE TOP OF THE SLAB. PROVIDE A 4'-0" WIDE EXTRA LAYER OF MESH OVER ALL INTERIOR BEAMS AND ORDERS SPANNING PARALLEL TO THE DECK SPAN.
8. METAL EDGE FORMS SHALL BE AS NOTED ON THE DRAWINGS. WELD EDGE FORM TO SUPPORTING BEAMS AT 12" SPACING, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
9. SLABS OVER COMPOSITE DECK SHALL BE PLACED AND FINISHED TO PROVIDE A FLOOR WITHIN SPECIFIED TOLERANCES. SLAB THICKNESSES MAY VARY AWAY FROM THE COLUMNS DUE TO DEFLECTIONS OF THE BEAMS AND DECK. THE CONTRACTOR SHALL ACCOUNT FOR EXTRA CONCRETE NEEDED TO PROVIDE A LEVEL FLOOR DUE TO BEAM DEFLECTION.
10. HEADED STUDS NOTED ON BEAMS SHALL BE 3/4" Ø X 4 1/2" LONG, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
11. INSTALL DECK ENDS OVER SUPPORTING FRAME WITH A MINIMUM END BEARING OF 2".
12. FASTEN FLOOR DECK PANELS TO STEEL SUPPORTING MEMBERS WITH 1/2" Ø PUDDLE WELDS AS FOLLOWS:
- A. PERPENDICULAR TO FRAMING: EACH DECK FLUTE AT EACH SUPPORT.
 - B. PARALLEL TO SUPPORTS: 12" OC.
 - C. SHEAR CONNECTIONS WELDED THROUGH DECK CAN REPLACE A REQUIRED DECK WELD.
10. FASTEN SIDE LAPERS AND PERIMETER EDGES OF PANELS BETWEEN SUPPORTS, AT INTERVALS NOT EXCEEDING THE LESSER OF 1/2 OF THE SPAN OR 36" USING ONE OF THE FOLLOWING METHODS:
- A. MECHANICALLY FASTEN WITH SELF-DRILLING NO. 10 Ø SCREWS.
 - B. CRIMP OR BUTT PUNCH.
 - C. ARC-SPOT (PUDDLE) WELDS 5/8" NOMINAL DIAMETER.
 - D. FILLET WELDS, 1" LONG MINIMUM.
11. DO NOT USE ADMIXTURES WITH CHLORIDE SALTS IN CONCRETE FOR SLABS OVER METAL DECK.
12. ALL OPENINGS GREATER THAN 6'-0" X 6'-0" IN PLAN (6'-0" DEPTH) SHALL BE REINFORCED IN ACCORDANCE WITH THE STRUCTURAL DETAILS.

STRUCTURAL CONCRETE MASONRY

1. ALL STRUCTURAL CONCRETE MASONRY WORK SHALL CONFORM TO THE FOLLOWING STANDARDS AND ANY STANDARDS REFERENCED THEREIN:
- TMS 602 - BUILDING CODE REQUIREMENTS FOR SPECIFICATION FOR MASONRY STRUCTURES
 - TMS 602 - SPECIFICATION FOR MASONRY STRUCTURES
2. STRUCTURAL CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH THE TABLES BELOW UNLESS NOTED OTHERWISE.
- | CLASS | NET COMPRESSIVE STRENGTH (F ₁) (PSI) | BLOCK COMPRESSIVE STRENGTH AT 28 DAYS (PSI) | MORTAR TYPE | GROUT COMPRESSIVE STRENGTH AT 28 DAYS (PSI) |
|-------|--|---|-------------|---|
| 1 | 1,750 | 2,000 | N | 2,000 |
| 2 | 2,000 | 2,000 | MOR S | 2,000 |
| 3 | 2,000 | 2,650 | N | 2,000 |
- NOTES:
- 1. ROOF FLOOR DECK SHALL NOT EXCEED 1/2" DIAMETER.
 - 2. GROUT SLUMP SHALL RANGE FROM 8" - 11".
 - 3. DO NOT USE ADMIXTURES UNLESS APPROVED BY EOR.

- USE CLASS
- INTERIOR WALLS 1
- EXTERIOR WALLS 2
- SITE WALLS 3
3. MATERIAL SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
- CONCRETE MASONRY UNITS - ASTM C90, NORMAL WEIGHT
 - MORTAR - ASTM C270
 - GROUT - ASTM C476, PROPORTIONED PER TABLE 1
 - AGGREGATE - ASTM C404
 - BED JOINT REINFORCEMENT - ASTM A1064, GALVANIZED OR STAINLESS STEEL
4. LAY OUT TO MAXIMUM POUR HEIGHT, NOT TO EXCEED 9'-0" IN HEIGHT OR COURSE BELOW BOND BEAM UNLESS ADDITIONAL PARAMETERS ARE MET ACCORDING TO TMS 602, SECTION 3.5.
5. LAY BLOCKS IN A RUNNING BOND WITH A MINIMUM JOINT OFFSET OF 1/4 UNIT LENGTH.
6. REINFORCE CONCRETE MASONRY UNIT JOINTS WITH LADDER-TYPE HOT-DIP GALVANIZED COLD-DRAWN STEEL, WITH W1.7 SIDE RODS AND W1.7 CROSS RODS.
7. PROVIDE JOINT REINFORCEMENT TO MEET THE FOLLOWING PARAMETERS:
- 18" ON CENTER UNLESS NOTED OTHERWISE.
8. LAP JOINT REINFORCING 14" AT SPLICES.
9. ALSO PROVIDE AT:
- TOP AND BOTTOM OF WALL OPENINGS, EXTENDING THE GREATER OF 24" OR 40 BAR DIAMETERS PAST THE OPENING.
 - CONTINUOUSLY AT STRUCTURALLY CONNECTED ROOF AND FLOOR LEVELS.
 - WITHIN 18" OF THE TOP OF WALLS.
10. PROVIDE PREFABRICATED JOINT REINFORCING CORNER PIECES AT ALL WALL CORNERS AND INTERSECTIONS.
11. JOINT REINFORCING SHALL BE DISCONTINUOUS AT CONTROL AND EXPANSION JOINTS.
12. FOR SPLICES IN REINFORCEMENT, REF. 16" OR 55.8. SPLICES IN REINFORCING SHALL BE STAGGERED SO THAT NOT MORE THAN 1/2 OF ALL BARS ARE SPLICED AT THE SAME LOCATION.
13. PROVIDE MINIMUM 1/2" CLEARANCE FROM REINFORCEMENT TO FACE SHELL OF BLOCK AND A MINIMUM 1" CLEARANCE BETWEEN PARALLEL REINFORCEMENT.
14. REINFORCEMENT SHALL BE ADEQUATELY SECURED TO PREVENT DISPLACEMENT CAUSED BY CONSTRUCTION LOADS OR BY PLACEMENT OF GROUT OR MORTAR BEYOND THE ALLOWABLE TOLERANCES. PROVIDE BAR POSITIONERS AT MANUFACTURER'S RECOMMENDED SPACING, NOT TO EXCEED 48" ON CENTER.
15. ALLOW MASONRY UNITS TO ATTAIN SPECIFIED STRENGTH BEFORE REMOVING TEMPORARY SUPPORTS.
16. NON-CAD BEARING MASONRY SHALL MAINTAIN A MINIMUM 1" SPACE BELOW ADJACENT FRAMING.
17. EMBEDDED ITEMS SHALL BE IN BUILT-IN (NOT CUT-IN) IN ACCORDANCE WITH TMS 602, SECTION 3.10. ALUMINUM SHALL NOT BE USED IN MASONRY UNLESS EFFECTIVELY COATED OR OTHERWISE ISOLATED. CONDUITS SHALL NOT BE SPACED CLOSER THAN (3) DIAMETERS TO ONE ANOTHER.
18. COLD WEATHER AND HOT WEATHER CONSTRUCTION SHALL BE IN ACCORDANCE WITH TMS 602, SECTION 1.8C AND 1.8D, RESPECTIVELY.
19. INSTALL CONTROL AND EXPANSION JOINTS AT THE FOLLOWING MAXIMUM SPACING UNLESS NOTED OTHERWISE:
- A. 20'-0" ON CENTER HORIZONTALLY.
 - B. TO MAINTAIN A MAXIMUM HEIGHT TO WIDTH RATIO OF 1 1/2:1 BETWEEN JOINTS.
 - C. WITHIN 1/2 TYPICAL JOINT SPACING FROM CMU WALL CORNER OR INTERSECTIONS ALONG INTERSECTING WALL.

COLD-FORMED METAL FRAMING

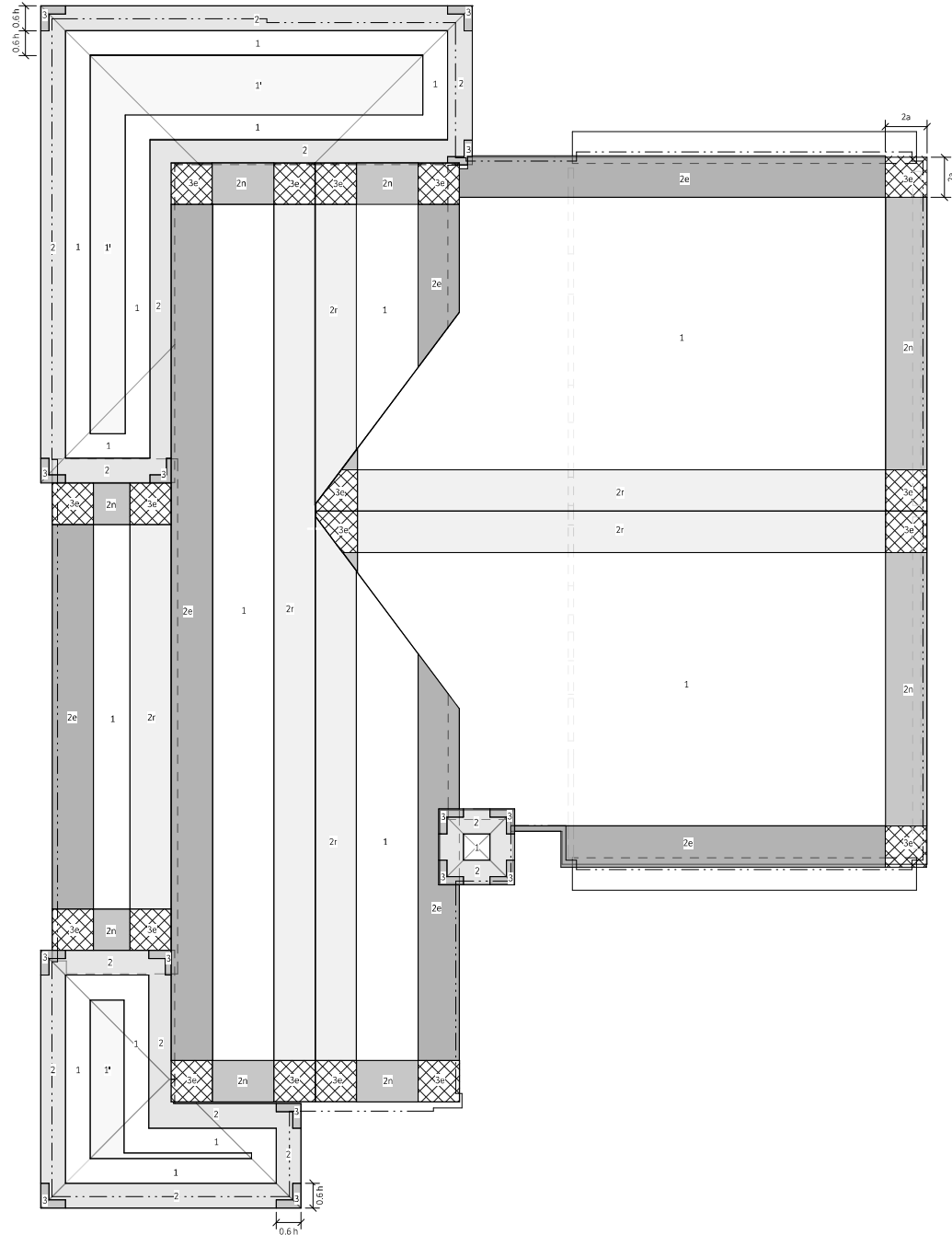
1. ALL EXTERIOR AND LOAD-BEARING COLD-FORMED STRUCTURAL NOTED ON THESE PLANS AND AS DEFINED IN DIVISION 05 SPECIFICATIONS SHALL CONFORM TO THE FOLLOWING STANDARDS AND ANY STANDARDS REFERENCED THEREIN:
- AISC 360 - NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
 - AISI C200 - NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING
 - AISI D13 - STRUCTURAL STEEL DESIGN SPECIFICATIONS
2. MATERIALS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS, UNLESS NOTED OTHERWISE:
- STEEL SHEET - ASTM A1003, TYPE H
 - FRAMING MEMBERS W/ THICKNESS ≤ 0.0428" (18 GA) - 33 KSI
 - FRAMING MEMBERS W/ THICKNESS ≥ 0.0538" (16 GA) - 50 KSI
 - CLIPS AND CONNECTORS - 50 KSI
 - STEEL TAPPING SCREWS - ASTM C1513
3. COLD-FORMED STRUCTURAL FRAMING SIZES SHALL BE AS NOTED ON PLANS WITH THE FOLLOWING PROPERTIES:

DESIGNATION THICKNESS (IN.)	THICKNESS (GAUGE)	MINIMUM THICKNESS (INCHES)	STEEL GRADE (KSI)
33	20	0.0346	33
43	18	0.0451	
54	16	0.0566	
68	14	0.0677	
97	12	0.0966	50

4. COLD-FORMED WALL ASSEMBLIES SHALL CONSIST OF THE FOLLOWING COMPONENTS:
- STUDS - SIZE AND SPACING AS NOTED ON DRAWINGS, NOT TO EXCEED 16" ON CENTER, W/ 1 1/2" X 4" PUNCHOUTS 12" FROM EACH END AND AT 24" ON CENTER.
 - BOTTOM TRACKS - SIZE AND GAUGE TO MATCH STUDS WITH A MINIMUM 1 1/4" FLANGE OR AS NOTED ON DRAWINGS. PROVIDE AT BOTTOM OF WALLS.
 - TOP TRACKS - SIZE AND GAUGE TO MATCH STUDS WITH A MINIMUM 1 1/4" FLANGE OR AS NOTED ON DRAWINGS. PROVIDE AT TOP OF PARAPET WALLS AND BELOW OPENINGS.
 - DEFLECTION TRACKS - DEPTH TO MATCH STUD SIZE. GAUGE AS NOTED ON DRAWINGS. MINIMUM 1 1/2" FLANGE W/ 1 1/2" SLOT. PROVIDE AT TOPS OF WALLS WHERE ATTACHING TO STEEL STRUCTURE ABOVE.
 - BRASS DEFLECTION CLIPS - AS NOTED ON DRAWINGS W/ MINIMUM 2 1/4" VERTICAL SLOTS, ANCHORED TO DECK CLOSOUT. PROVIDE AT EACH BY-PASS STUD AT EACH FLOOR AND ROOF LEVEL.
 - RIGID CLIPS - AS NOTED ON DRAWINGS, ANCHORED TO STEEL FRAMING. PROVIDE AT EACH STUD AND BOTTOM TRACKS SHALL BE UNSUPPORTED. PROVIDE AT EACH STUD WITH A 1 1/4" FLANGE, UNLESS NOTED OTHERWISE.
5. COLD-FORMED STRUCTURAL FRAMING SHALL HAVE MINIMUM PROTECTION COATING EQUAL TO G-60 GALVANIZED FINISH.
6. 5. UNLESS NOTED OTHERWISE, PROVIDE CONT. 1 1/2" X 16 GA U-CHANNEL BRIDGING BETWEEN ALL WALL AND ROOF STUDS AT 4'-0" ALONG THE LENGTH OF THE STUD. ATTACH BRIDGING TO STUDS WITH CLARK DIETRICH FB43 FASTBRIDGE CLIP.
7. 8. UNLESS NOTED OTHERWISE, ALL STUD TO STUD LAPPED CONNECTIONS SHALL BE FASTENED WITH (3) #10 SCREWS.
9. STRUCTURAL FRAMING SHALL BE PROPERLY SPACED, PLUMBED, LEVELED, SQUARED, FIT PROPERLY AGAINST ABUTTING MEMBERS, AND HELD SECURELY IN PLACE UNTIL PERMANENTLY FASTENED. WIRE TYPING OF STRUCTURAL FRAMING COMPONENTS IS NOT PERMITTED.
10. FASTENING OF COLD-FORMED STRUCTURAL FRAMING SHALL CONFORM TO THE FOLLOWING METHODS:
- SHEET STEEL TO SHEET STEEL - STEEL TAPPING SCREWS
 - SHEET STEEL TO CONCRETE - POWDER ACTUATED FASTENERS
 - SHEET STEEL TO HOT-ROLLED STEEL (≥ 1/8" THICKNESS) - STEEL TAPPING SCREWS OR POWDER ACTUATED FASTENERS
11. DO NOT WELD SHEET STEEL UNLESS SPECIFICALLY NOTED ON THE DRAWINGS. PROTECTIVE COATING REMOVED BY WELDING SHALL HAVE THE COATING REPAIRED AT THE WELDS BY PAINTING WITH A ZINC RICH PRIMER.
12. COLD-FORMED STRUCTURAL FRAMING MAY BE SHOP OR FIELD FABRICATED INTO ASSEMBLIES, PRIOR TO ERECTION, OR ASSEMBLED IN THE FIELD.
13. THE STRUCTURAL FRAMING SHALL HAVE ENDS SQUARELY CUT BY SHEARING OR SAWING. BE INSTALLED PLUMB, SQUARE, TRUE TO LINE, AND SECURELY FASTENED PER THE CONTRACT DOCUMENTS OR APPROVED CONNECTION DETAILS. TORCH CUTTING IS NOT PERMITTED.
14. FABRICATION, HANDLING, AND ERECTION OF THE STRUCTURAL FRAMING AND ASSEMBLIES SHALL BE DONE IN A MANNER TO PREVENT ANY DAMAGE OR DISTORTION OF THE FRAMING.
15. SPLICING OR NOTCHING OF FRAMING MEMBERS IS NOT PERMITTED UNLESS EXPLICITLY NOTED ON THE DRAWINGS.
16. PROVIDE JAMB STUDS, BOX HEADERS, AND SILL TRACKS AROUND OPENINGS AS NOTED ON



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



ROOF WIND PRESSURES		
ZONE	WIND PRESSURE BASED, CONTRIBUTORY AREA (PSF)	
	10 SE	100 SE
	10 SW	100 SW
1	+34.1/-103.9	+22.9/-32.4
2e	+34.1/-103.9	+22.9/-32.4
2n	+34.1/-151.6	+22.9/-62.9
2r	+34.1/-151.6	+22.9/-62.9
3e	+34.1/-151.6	+22.9/-62.9
3r	+34.1/-180.2	+22.9/-94.4

NOTES:
1. a = 4.8'
2. ALL NOTED PRESSURES SHOWN ARE
STRENGTH LEVEL (LRFD) UPLIFT
PRESSURES APPLIED TO THE TOP OF
THE ROOF SURFACE.

NOTE: ALL ROOF AREAS ABOVE HAVE BEEN
DESIGNED FOR:
-SUPERIMPOSED DEAD LOAD = 15 PSF
-LIVE LOAD = 20 PSF

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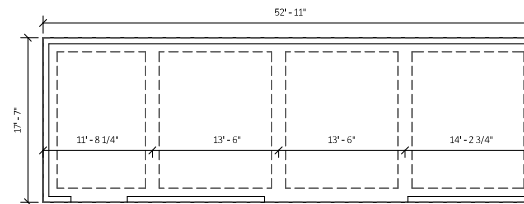
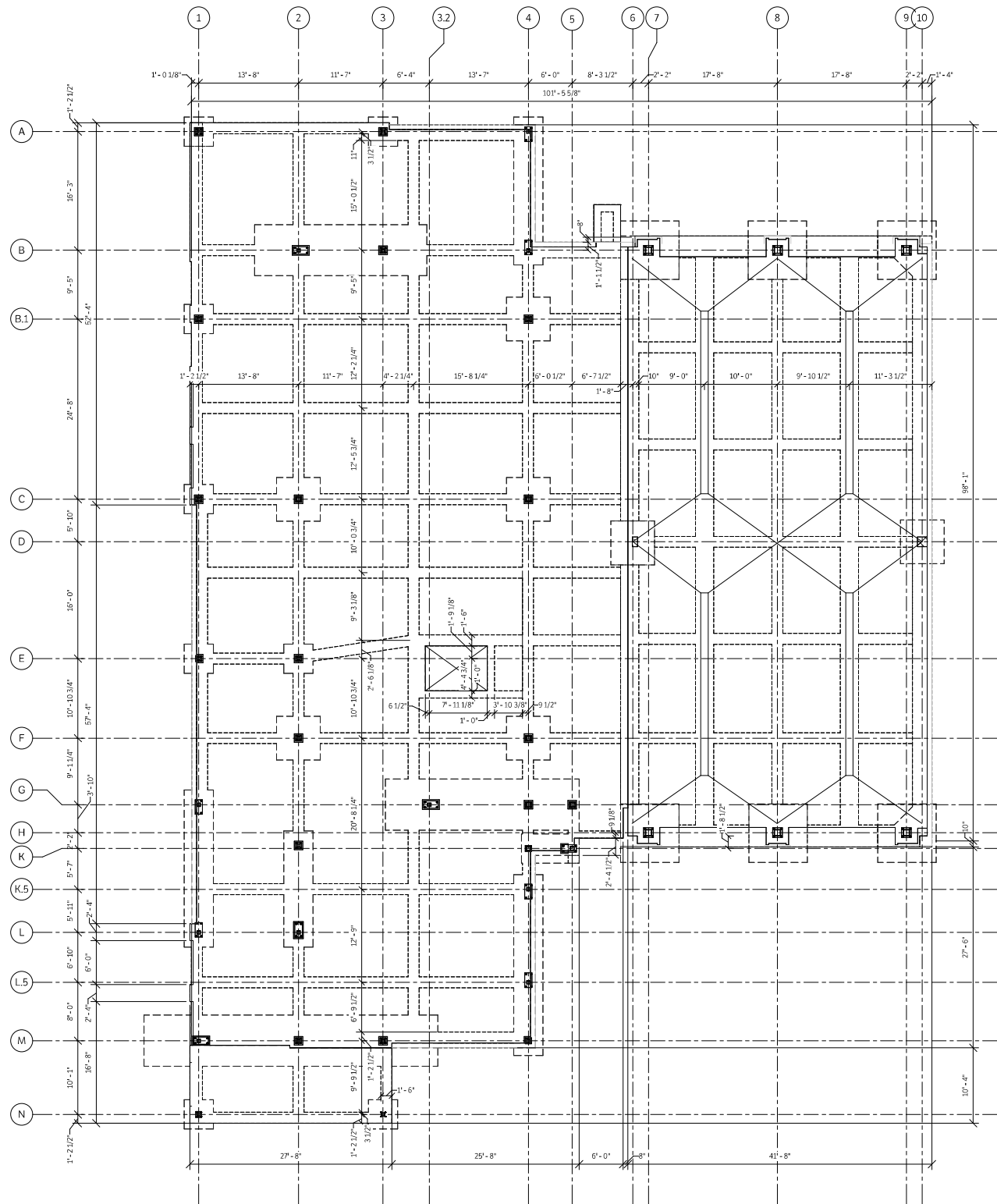
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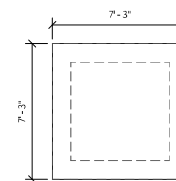
S0.3
UPLIFT PLAN



① DIMENSION CONTROL PLAN
1/8" = 1'-0"



② DIMENSION PLAN - GENERATOR PAD
1/8" = 1'-0"



③ DIMENSION PLAN - MECH. PAD
1/4" = 1'-0"

NOTES:

- ELEVATIONS RELATIVE TO FOUNDATION FINISH FLOOR = 0'-0", UNLESS NOTED OTHERWISE.
- TOP OF CONCRETE ELEVATION = FINISH FLOOR, UNO.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FLOOR RECESSES, DROPS, AND SLOPES.
- REFER TO MEP DRAWINGS FOR LOCATION AND DIMENSIONS OF FLOOR PENETRATING HOUSEKEEPING PADS AND ITEMS TO BE EMBEDDED IN SLAB.
- COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- REFER TO GENERAL NOTES, TYPICAL DETAILS, AND PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REFERENCE THE FOLLOWING SHEETS FOR TYPICAL DETAILS AND SCHEDULES:
 - 5-5.1- FOUNDATION DETAILS
 - 5-5.2- BASEPLATES AND EMBED PLATES
 - 5-5.3- BEAM AND SLAB SCHEDULES

LEGEND:

- DROP
- 1:50 SLOPE, UNO
- 8" CMU WALL PARTIALLY GROUTED W/ SINGLY REINFORCED #5 BARS @ 32" OC ABOVE
- 12" CMU WALL PARTIALLY GROUTED W/ DOUBLY REINFORCED #5 BARS @ 32" OC ABOVE
- BRACE FRAME LOCATION
- COLUMN SIZE
- BASE PLATE TYPE

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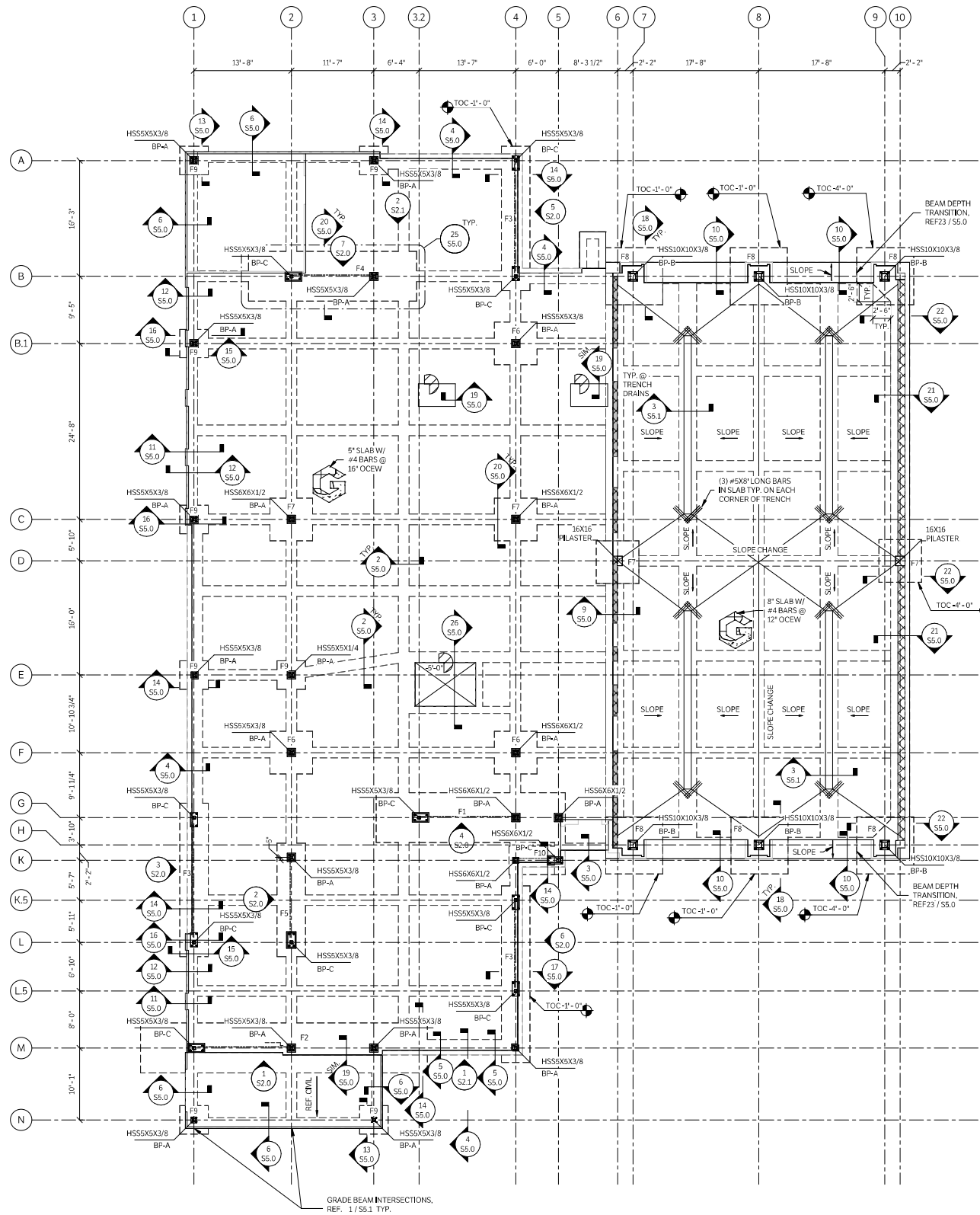
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STATE OF TEXAS

EVAN J. ROE
141174
Professional Engineer

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FOOTING SCHEDULE									
MARK	DEPTH	WIDTH	L1 MIN.	L2 MIN.	TOP REINF. - LONG.	TOP REINF. - SHORT	BOT. REINF. - LONG.	BOT. REINF. - SHORT	REMARKS
F1	EBGB*	7'-0"	7'-0"	6'-0"	#6 @ 9" OC	#6 @ 9" OC	#6 @ 9" OC	#6 @ 9" OC	
F2	1'-6"	7'-0"	7'-6"	7'-6"	#6 @ 12" OC	#6 @ 9" OC	#6 @ 9" OC	#6 @ 9" OC	
F3	1'-6"	8'-0"	2'-0"	2'-0"	#6 @ 9" OC	#6 @ 9" OC	#6 @ 9" OC	#6 @ 9" OC	
F4	EBGB*	7'-0"	6'-0"	6'-0"	#6 @ 9" OC	#6 @ 9" OC	#6 @ 9" OC	#6 @ 9" OC	
F5	EBGB*	8'-0"	2'-0"	2'-0"	#6 @ 9" OC	#6 @ 9" OC	#6 @ 9" OC	#6 @ 9" OC	
F6	1'-6"	5'-0"			#6 @ 9" OC	#6 @ 9" OC	#6 @ 9" OC	#6 @ 9" OC	
F7	1'-6"	6'-0"			#6 @ 9" OC	#6 @ 9" OC	#6 @ 9" OC	#6 @ 9" OC	NOTE 5
F8	1'-6"	8'-0"			#6 @ 12" OC	#6 @ 12" OC	#6 @ 12" OC	#6 @ 12" OC	NOTE 5
F9	1'-6"	8'-0"			#6 @ 8" OC	#6 @ 8" OC	#6 @ 8" OC	#6 @ 8" OC	
F10	1'-6"	8'-0"	0'-11 1/2"	0'-11 1/2"	#6 @ 9" OC	#6 @ 9" OC	#6 @ 9" OC	#6 @ 9" OC	

- NOTES:
- *EBGB = EXTEND TO BOTTOM OF THE ADJACENT OR INTERSECTING GRADE BEAM(S).
 - ALL FOOTINGS SHALL BE CENTERED ON GRIDLINES UNLESS NOTED OTHERWISE.
 - REF. PLANS FOR TOP OF CONCRETE ELEVATIONS OF FOOTINGS.
 - REF. FOR FOOTING DETAIL.
 - FOOTINGS THAT DO NOT EXTEND BEYOND THE FOOTPRINT OF THE BUILDING SHALL EXTEND THE FULL DEPTH BETWEEN THE BOT. OF SLAB AND BOT. OF INTERSECTING GRADE BEAM(S).
 - FOOTINGS WITH NO L1 OR L2 VALUES ARE INTENDED TO BE SQUARE.

NOTES:

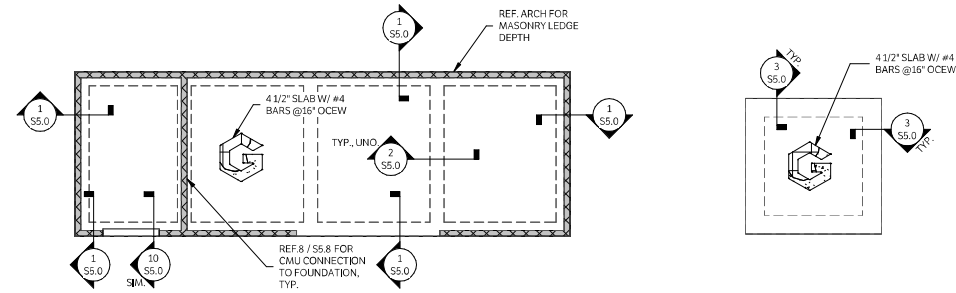
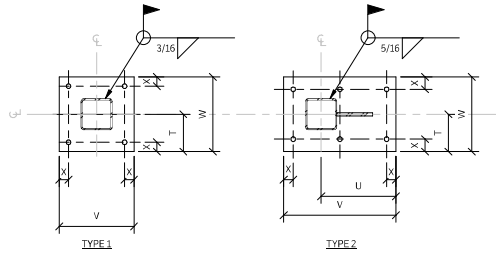
- ELEVATIONS RELATIVE TO FOUNDATION FINISH FLOOR = 0'-0", UNLESS NOTED OTHERWISE.
- TOP OF CONCRETE ELEVATION = FINISH FLOOR, UNO.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FLOOR RECESSES, DROPS, AND SLOPES.
- REFER TO MEP DRAWINGS FOR LOCATION AND DIMENSIONS OF FLOOR PENETRATIONS HOUSEKEEPING PADS AND ITEMS TO BE EMBEDDED IN SLAB.
- COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- REFER TO GENERAL NOTES, TYPICAL DETAILS, AND PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REFERENCE THE FOLLOWING SHEETS FOR TYPICAL DETAILS AND SCHEDULES:
 - S-5.1 - FOUNDATION DETAILS
 - S-5.12 - BASEPLATES AND EMBED PLATES
 - S-6.0 - BEAM AND SLAB SCHEDULES

LEGEND:

- DROP
- SLOPE 1:50 SLOPE, UNO
- 8" CMU WALL PARTIALLY GROUTED W/ SINGLY REINFORCED #5 BARS @ 32" OC ABOVE
- 12" CMU WALL PARTIALLY GROUTED W/ DOUBLY REINFORCED #5 BARS @ 32" OC ABOVE
- BRACE FRAME LOCATION
- COLUMN SIZE
- BASE PLATE TYPE

EMBED PLATE SCHEDULE									
MARK	TYPE	V	W	U	T	X	THICKNESS	QTY	ANCHORS
BP-A	1	10"	10"	5"	5"	1 1/2"	3/4"	(4)	1 1/2" 36"
BP-B	1	16"	16"	8"	8"	2"	1 1/2"	(4)	1" 36"
BP-C	2	24"	12"	17"	6"	2"	1 1/2"	(6)	1 1/4" 36"

- NOTE:
- REF. 7 / 55.0 & 8 / 55.0 FOR BASE PLATE ELEVATIONS.
 - REF. FRAMING DETAILS FOR ADDITIONAL EMBED/BASE PLATES AT TOP OF CMU WALLS AND PLASTERS.



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

2 FOUNDATION PLAN - GENERATOR PAD
1/8" = 1'-0"

3 FOUNDATION PLAN - MECH. PAD
1/4" = 1'-0"

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S1.1
FOUNDATION PLAN

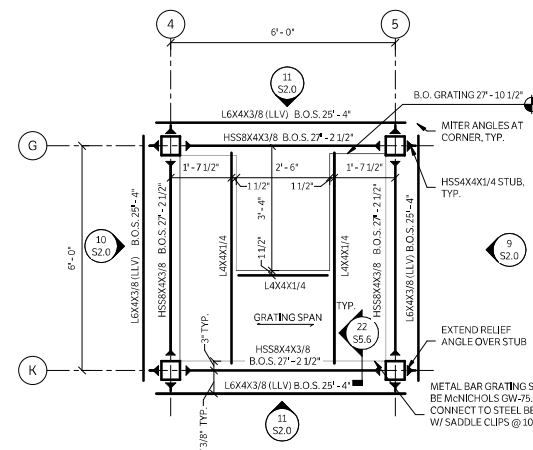
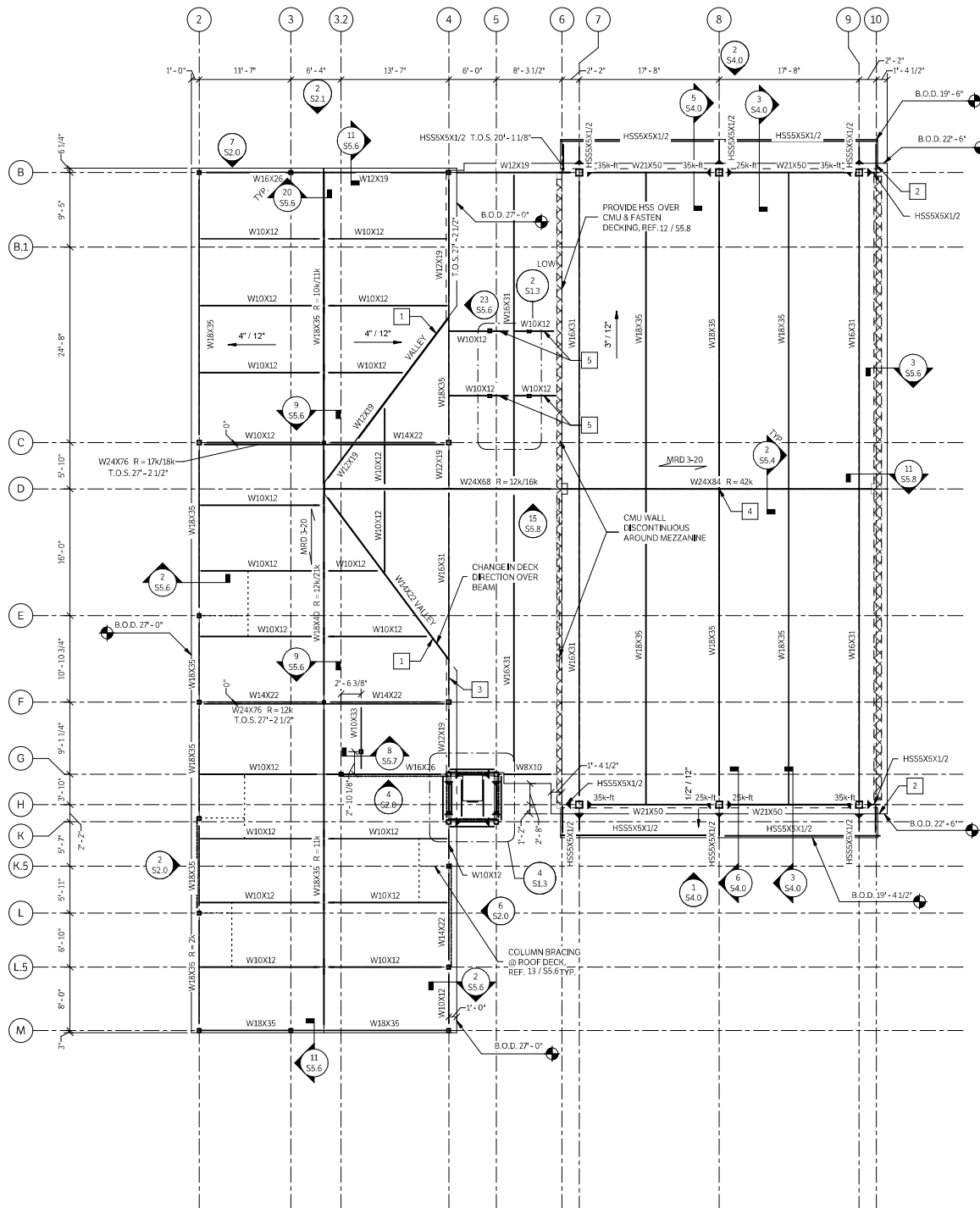
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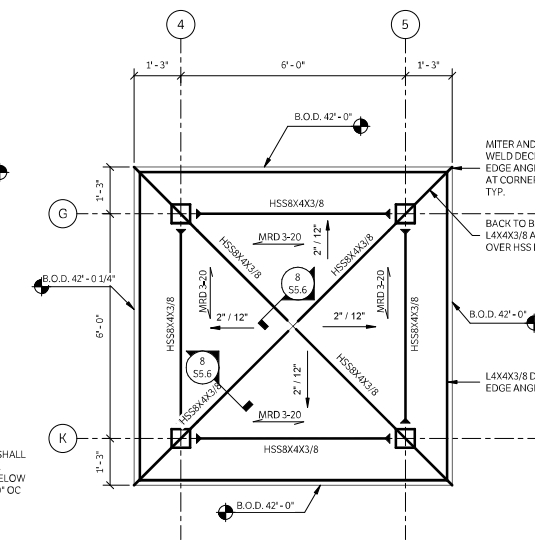
2ND FLOOR & LOW
ROOF FRAMING PLAN



1 HIGH ROOF FRAMING PLAN
1/8" = 1'-0"



3 TOWER PLATFORM FRAMING PLAN
1/2" = 1'-0"



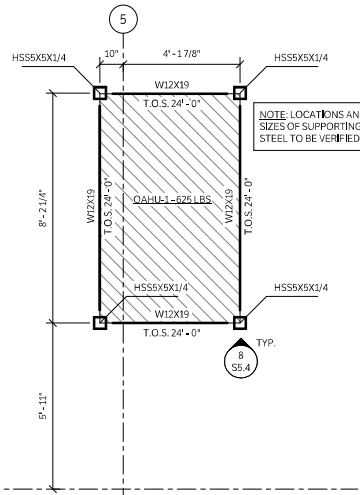
4 TOWER ROOF FRAMING PLAN
1/2" = 1'-0"

- NOTES:
- ELEVATIONS RELATIVE TO FOUNDATION FINISH FLOOR ELEVATION = 0'-0". UNLESS NOTED OTHERWISE.
 - SHEAR PLATE CONNECTIONS PER DETAIL 4 / 55.4/55.5 NOTED OTHERWISE.
 - TAGGED COLUMNS BEGIN AT THIS LEVEL. COLUMNS NOT TAGGED ON PLAN CONTINUE UP FROM BELOW.
 - LOOSE LINTELS SHALL BE:
A. L6X4X3/8 W/ MAXIMUM SPAN OF 8'-0". AND SHALL BEAR A MINIMUM OF 8" EACH SIDE PAST OPENING.
 - REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FLOOR RECESSES, DROPS, AND SLOPES.
 - REFERENCE MEP DRAWINGS FOR LOCATION AND DIMENSIONS OF FLOOR PENETRATIONS HOUSEKEEPING PADS AND ITEMS TO BE EMBEDDED IN SLAB. COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - REFERENCE SECTIONS AND DETAILS FOR ADDITIONAL STEEL TYPICAL DETAILS/SCHEDULES.
 - COLD FORMED METAL FRAMING STUD DEPTHS ARE PROVIDED FOR REFERENCE THROUGHOUT PLANS AND SECTIONS. FINAL CFMF DESIGN SHOULD BE DONE AS A DELEGATED DESIGN.
- FOR BIDDING PURPOSES ONLY:
CONTRACTOR SHALL PLAN FOR TYPICAL EXTERIOR STUD TO BE NO LESS THAN 600S200-54 (W/ BRIDGING @ 48" OC) WHERE STUD LENGTH DOES NOT EXCEED 17'-0". STUD THICKNESS SHALL BE A MIN. 68 MIL. OTHERWISE.

- LEGEND:
- TOS X'-XX" TOP OF STEEL ELEVATION
 - COLUMN SIZE
 - BRACE FRAME LOCATION
 - MOMENT CONNECTION
 - OPENING
 - 12" CMU WALL PARTIALLY GROUTED W/ DOUBLY REINFORCED #5 BARS @ 32" OC
 - DECK TYPE:
"MRD"=METAL ROOF DECK
 - DECK SPAN DIRECTION
 - METAL DECK GAUGE
 - METAL DECK DEPTH

HIGH ROOF FRAMING PLAN NOTES

- CHANGE IN DECK SPAN DIRECTION REF. 17 / 55.6
- DECK CLOSEOUT TO SPAN BETWEEN HSS BEAMS
- PROVIDE BENT PLATE ABOVE BEAM PER DETAIL REF. 18 / 55.6
- HSS FAN (201 LBS) BELOW, REF. ARCH FOR LOCATION FASTEN FAN TO BOTTOM FLANGE OF STEEL BEAM PER MANUF. SPEC. IF BOTTOM FLANGE WIDTH EXCEEDS MANUF. CONNECTION DESIGN, CONTACT GESSNER ENGINEER FOR ADDITIONAL INFORMATION.
- ORIENT HVAC SUPPORT BEAMS SO THAT STUB COLUMNS BELOW ARE VERTICAL. DO NOT ALIGN WITH ROOF SLOPE.



2 MECHANICAL UNIT SUPPORT FRAMING
3/8" = 1'-0"

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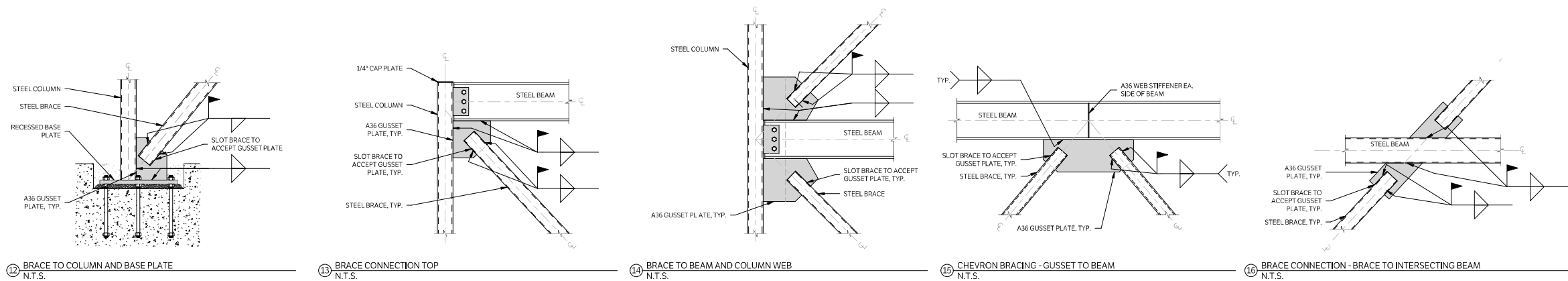
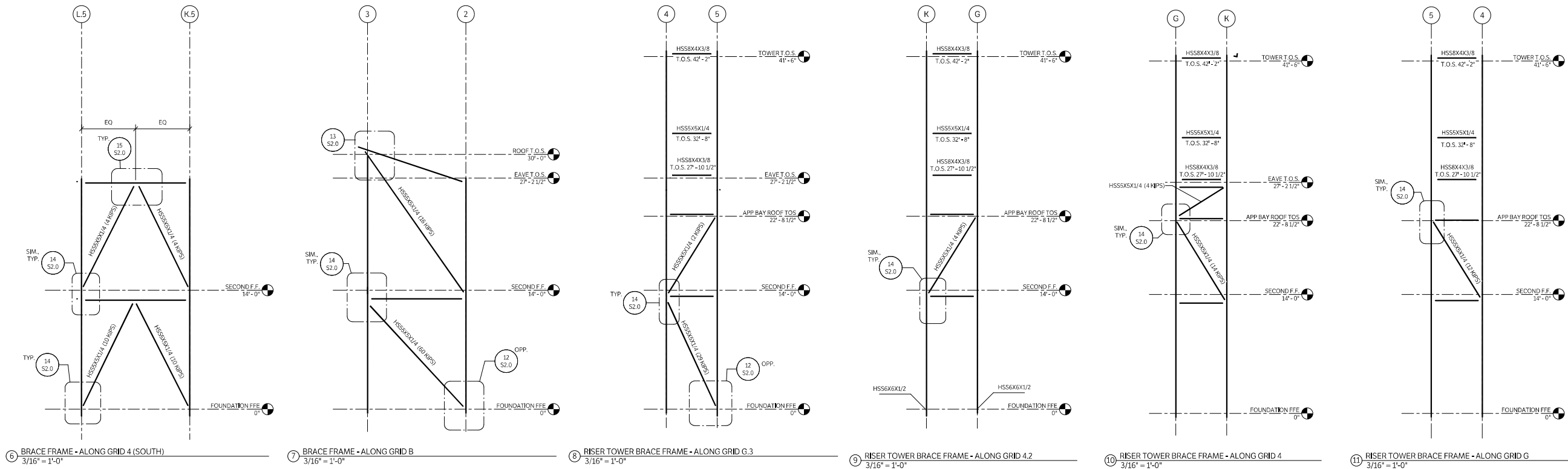
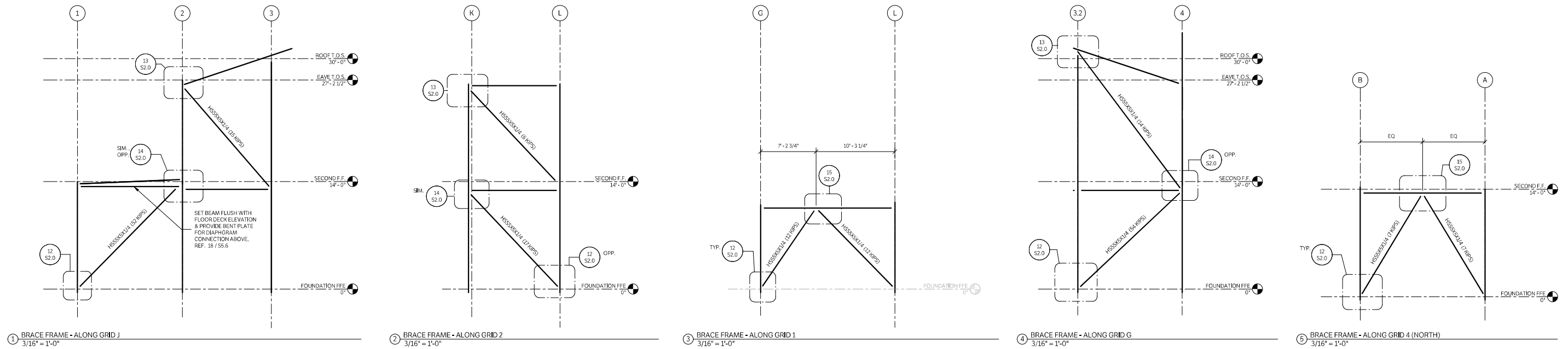
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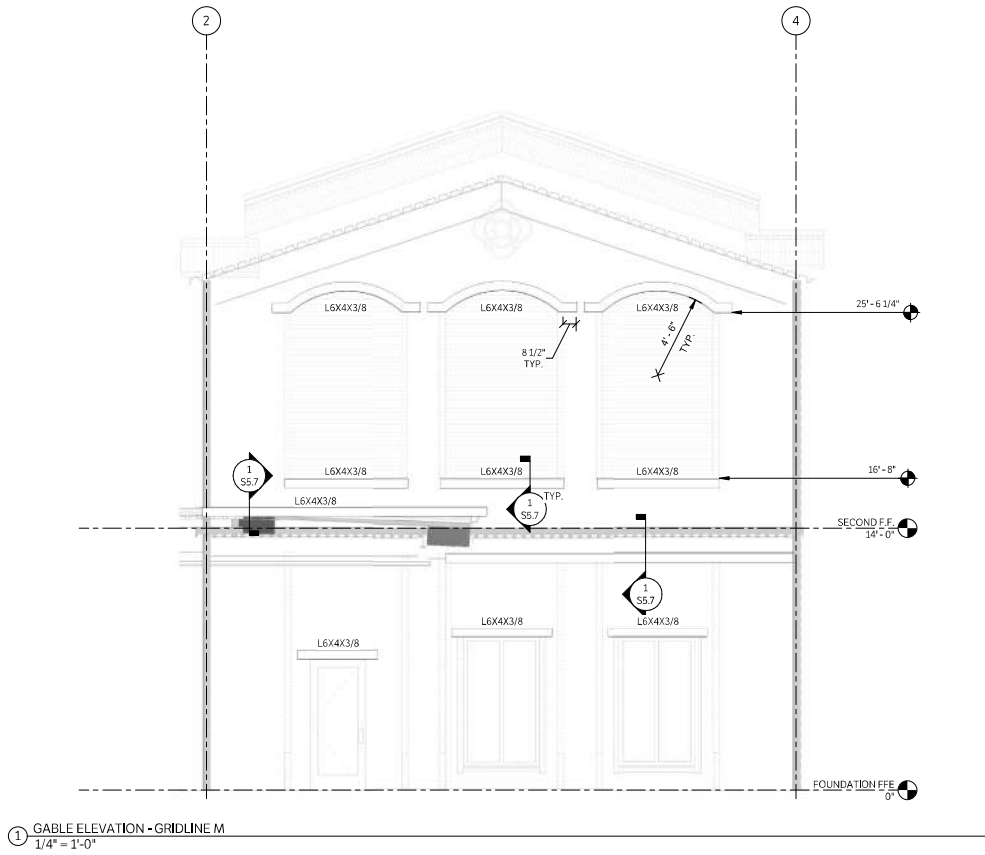
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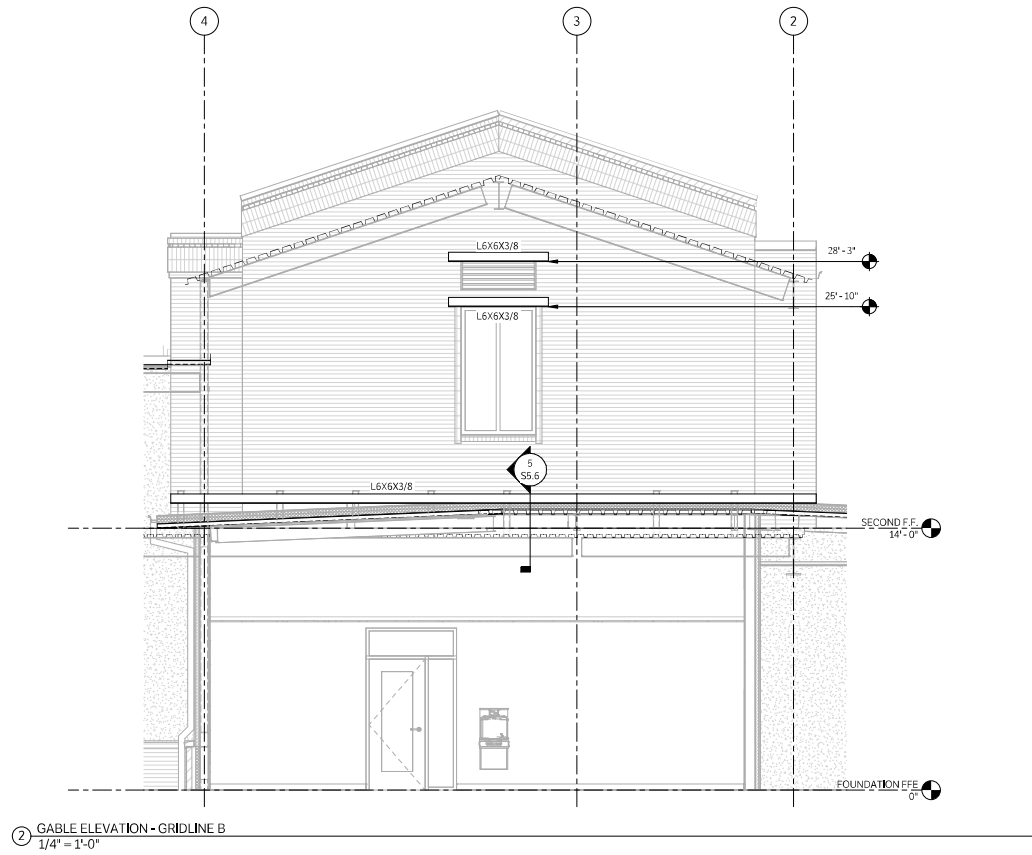
S1.3
HIGH ROOF FRAMING
PLAN

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① GABLE ELEVATION - GRIDLINE M
1/4" = 1'-0"




② GABLE ELEVATION - GRIDLINE B
1/4" = 1'-0"

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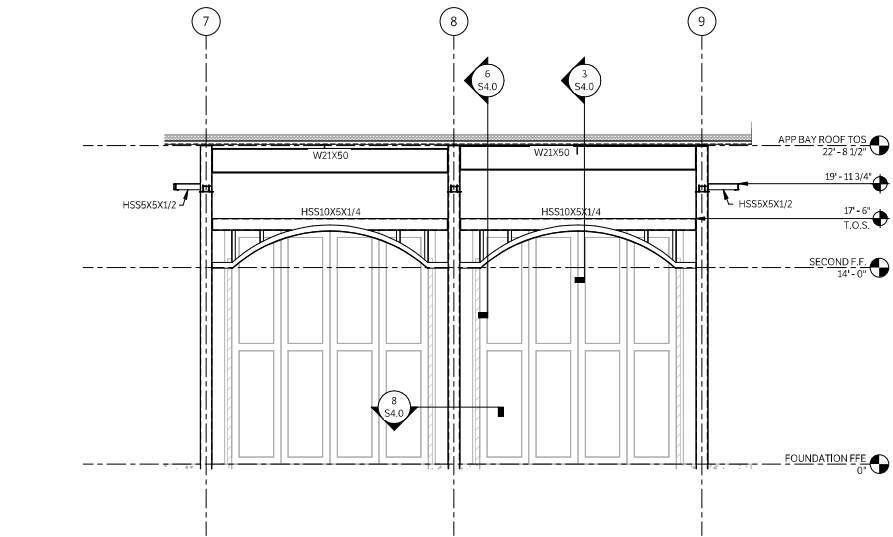
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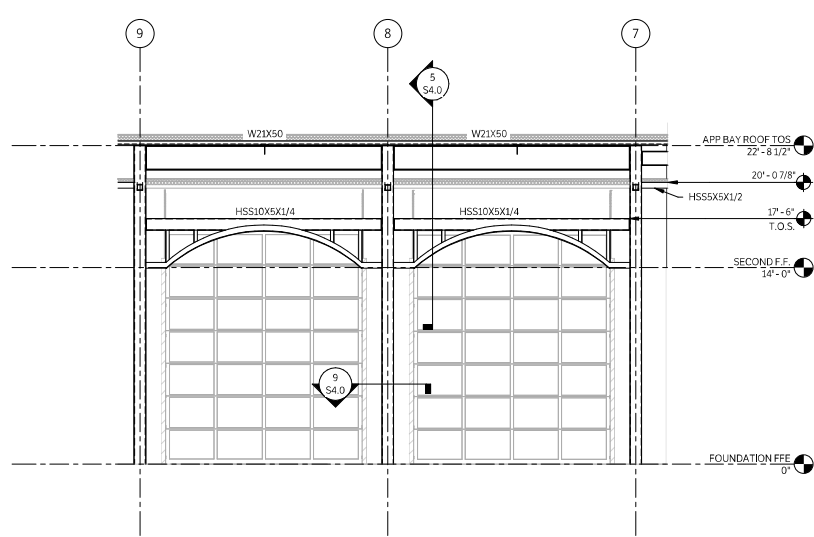


S2.1

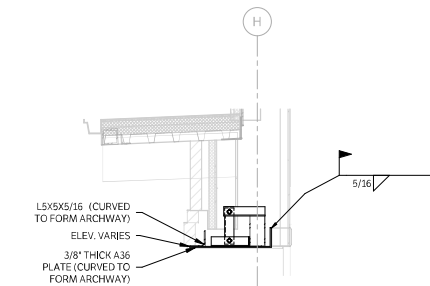
GABLE ELEVATION



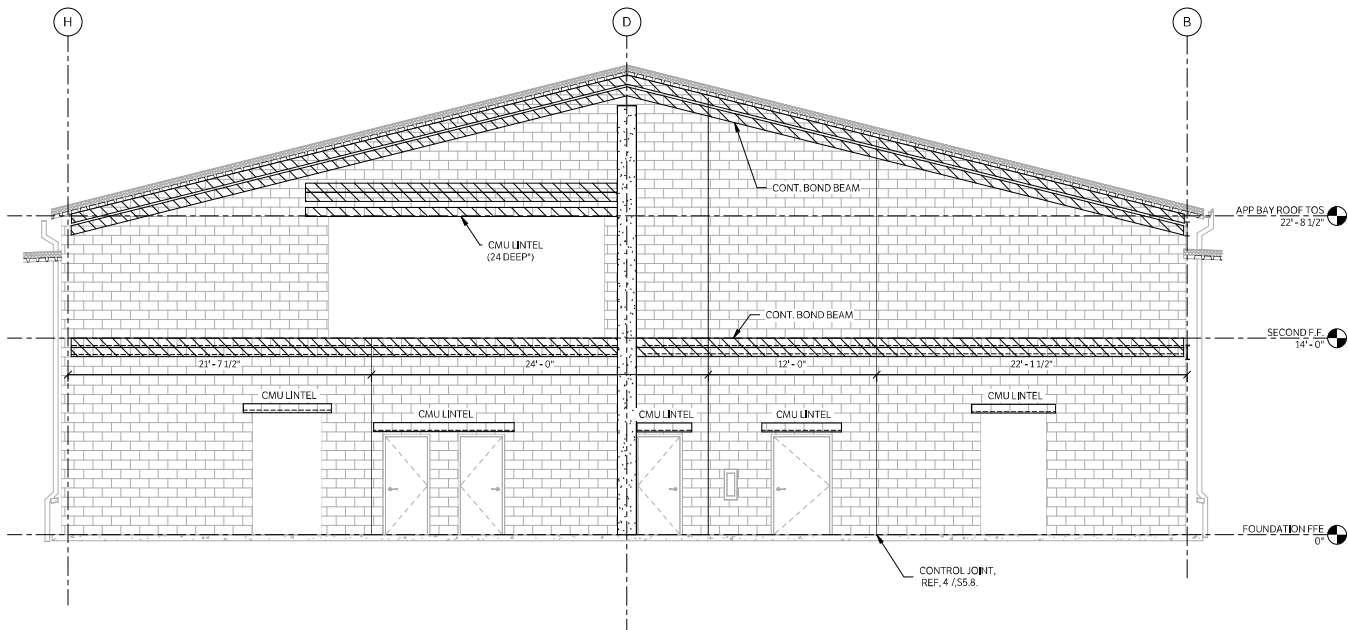
1 APPARATUS BAY FRAME ELEVATION - PLAN NORTH
3/16" = 1'-0"



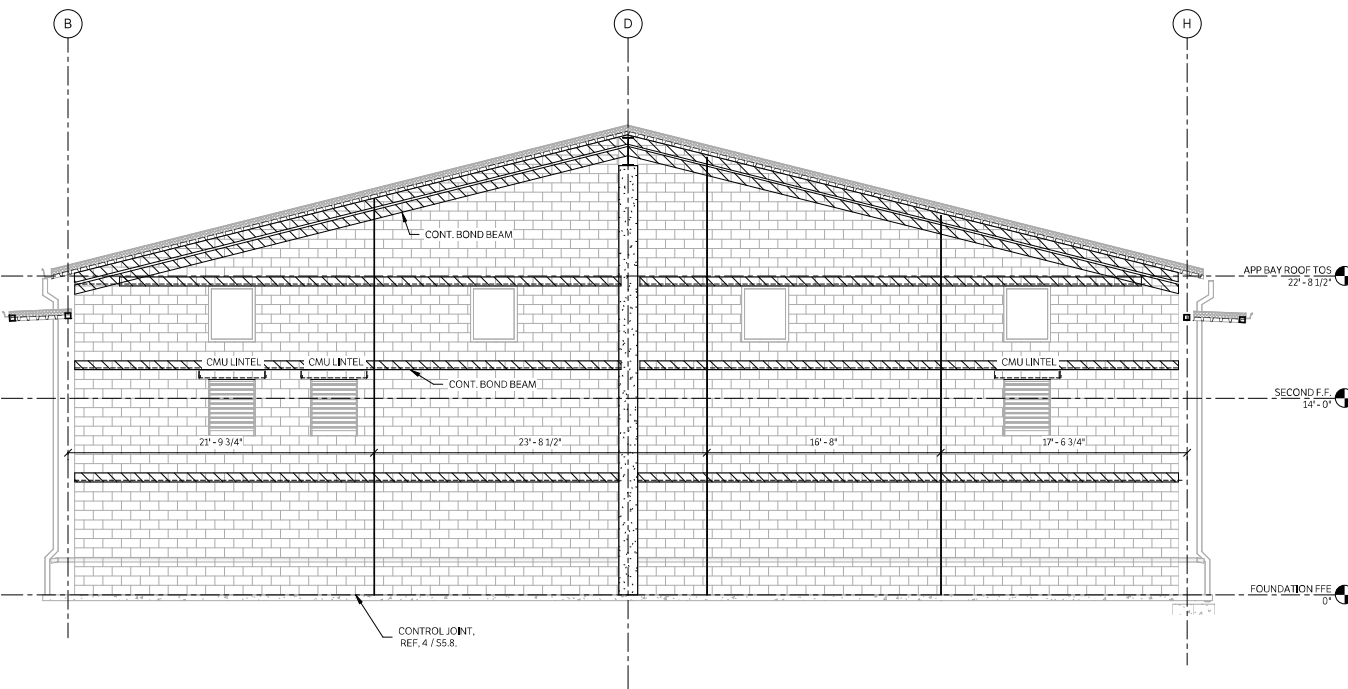
2 APPARATUS BAY FRAME ELEVATION - PLAN SOUTH
3/16" = 1'-0"



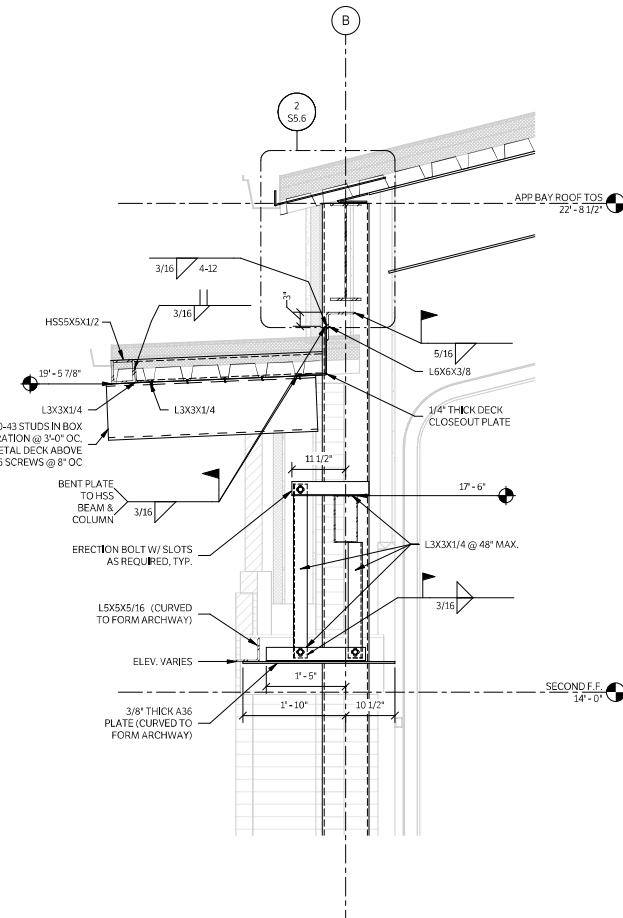
3 APP. BAY DOOR - PLAN SOUTH - ARCH APEX CONDITION
1/2" = 1'-0"



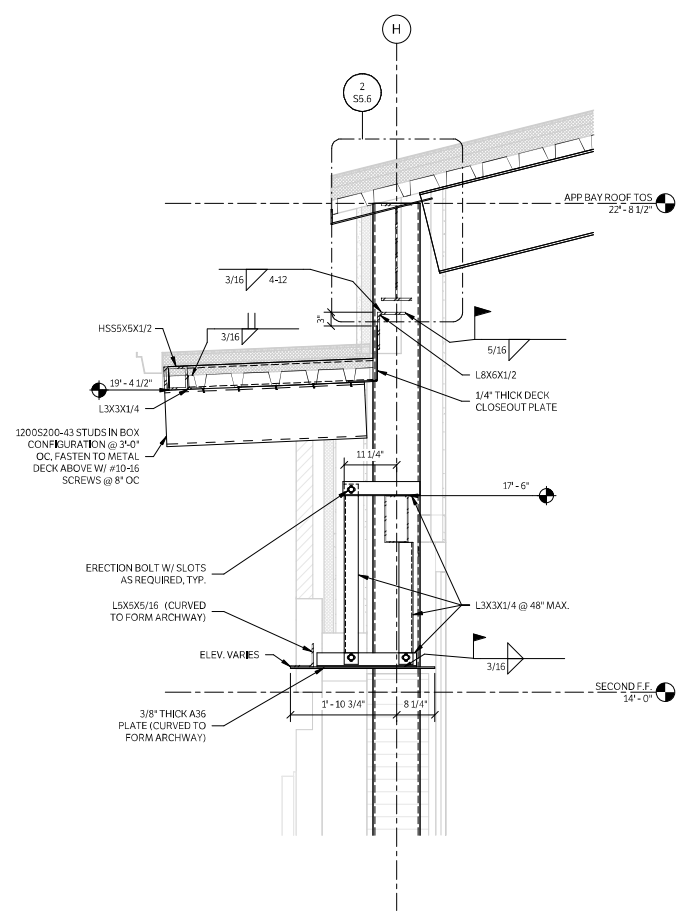
4 APPARATUS BAY CMU WALL ELEVATION - PLAN WEST
3/16" = 1'-0"



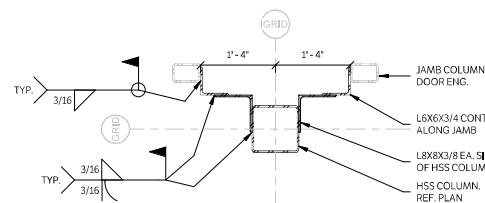
7 APPARATUS BAY CMU WALL ELEVATION - PLAN EAST
3/16" = 1'-0"



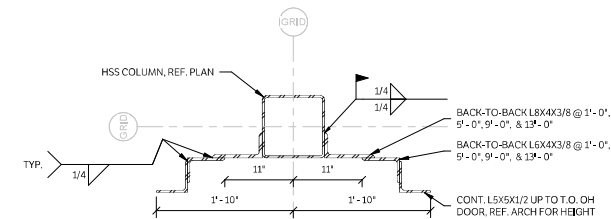
5 APPARATUS BAY DOOR - PLAN NORTH
3/4" = 1'-0"



6 APPARATUS BAY DOOR - PLAN SOUTH
3/4" = 1'-0"

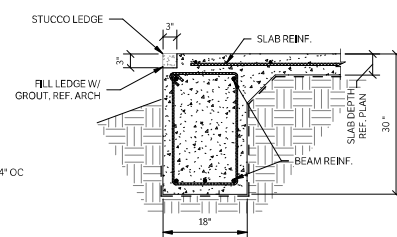
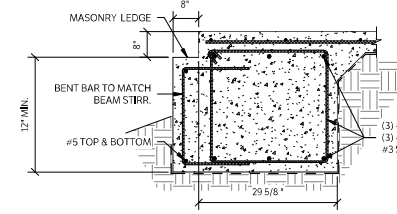
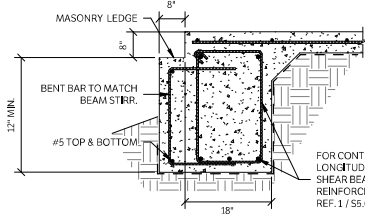
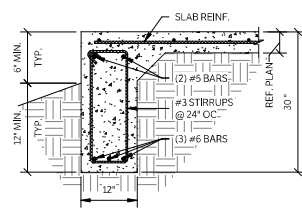
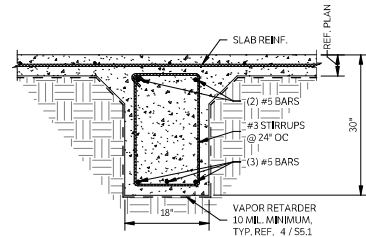
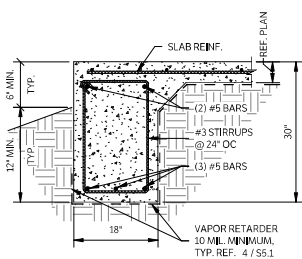


8 JAMB CONNECTION @ APP. BAY - BI-FOLD DOORS
N.T.S.



9 JAMB CONNECTION @ APP. BAY - SECTIONAL DOORS
N.T.S.

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1. EXTERIOR BEAM - 18" (TYPICAL)
N.T.S.

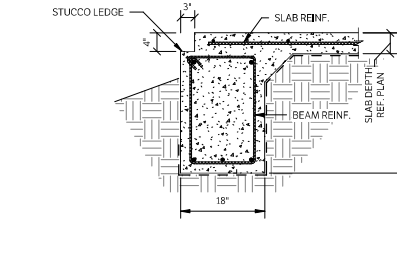
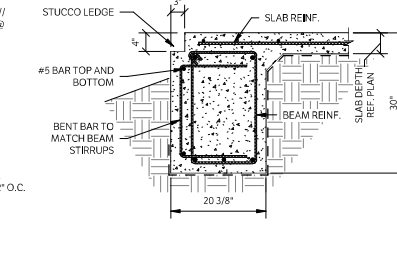
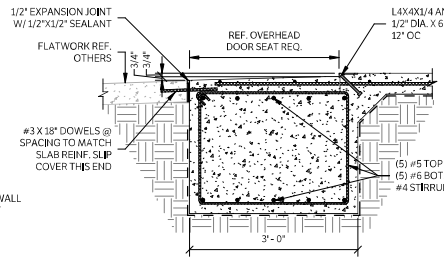
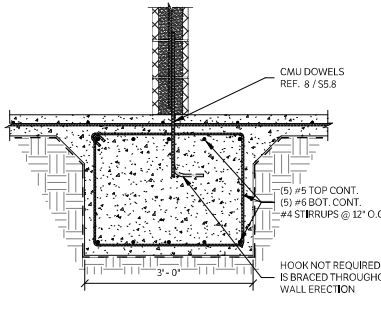
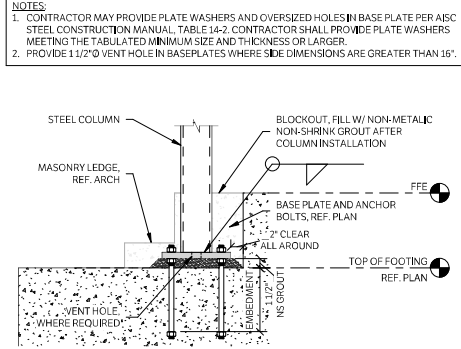
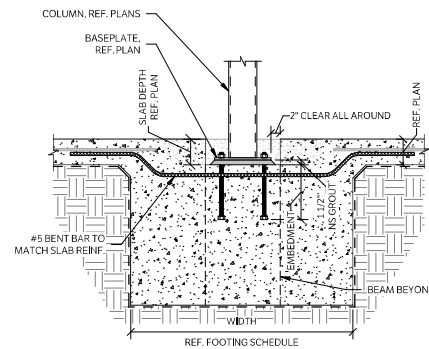
2. INTERIOR BEAM - 18" WIDE
N.T.S.

3. EXTERIOR BEAM - 12" WIDE
N.T.S.

4. EXTERIOR BEAM W/ LEDGE
N.T.S.

5. EXTERIOR BEAM W/ LEDGE - WIDENED
N.T.S.

6. EXTERIOR BEAM W/ STUCCO LEDGE @ PAVEMENT
N.T.S.



7. TYP. BASEPLATE ELEVATION WITHIN FOOTING
N.T.S.

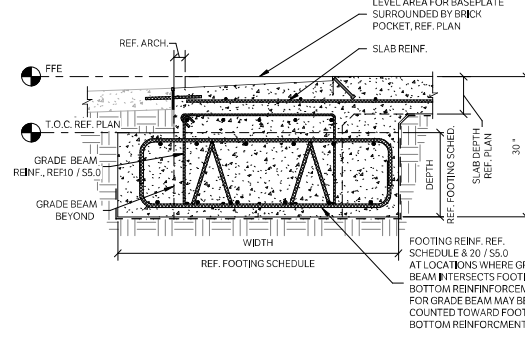
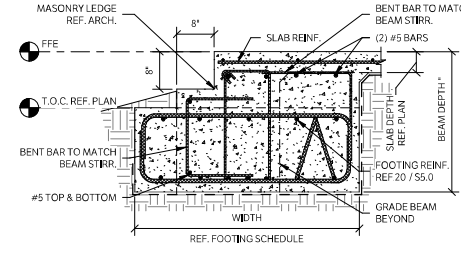
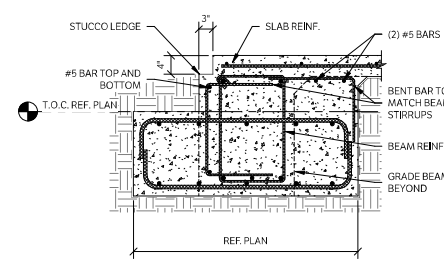
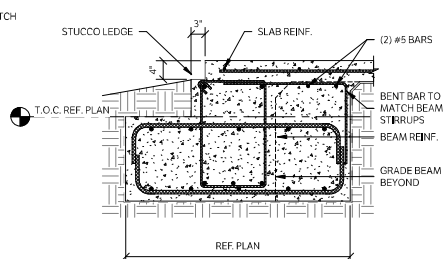
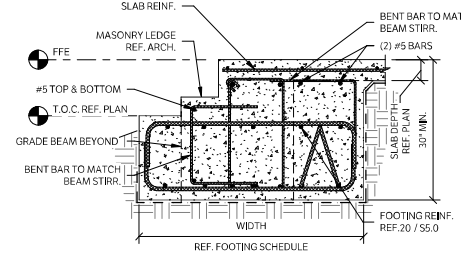
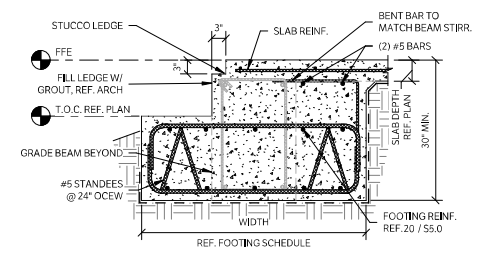
8. COLUMN BASEPLATE AT EXTERIOR W/ FOOTING & MASONRY LEDGE
N.T.S.

9. INTERIOR BEAM - 36" WIDE @ CMU
N.T.S.

10. GARAGE FLATWORK EXTERIOR BEAM
N.T.S.

11. EXTERIOR BEAM W/ STUCCO LEDGE - WIDENED
N.T.S.

12. EXTERIOR BEAM W/ STUCCO LEDGE
N.T.S.



13. EXTERIOR BEAM W/ FOOTING
N.T.S.

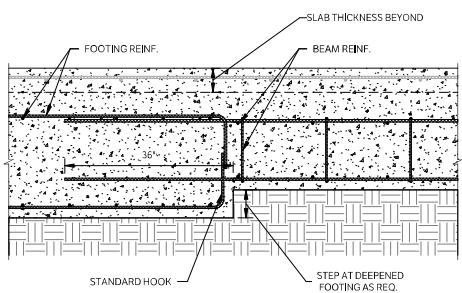
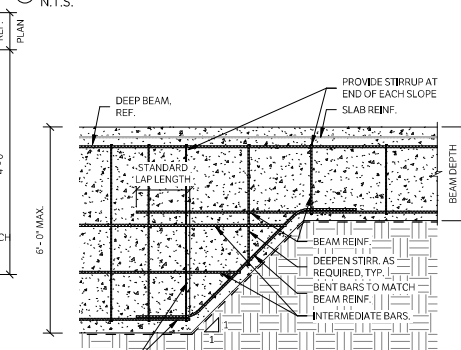
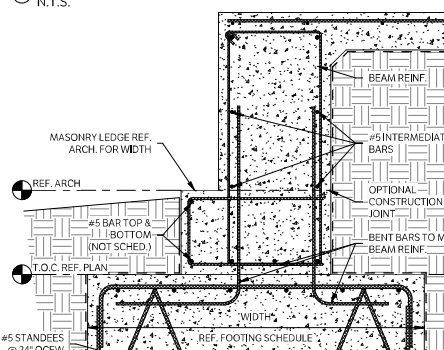
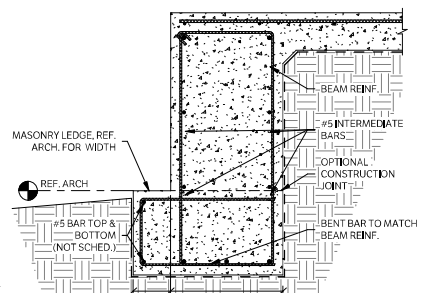
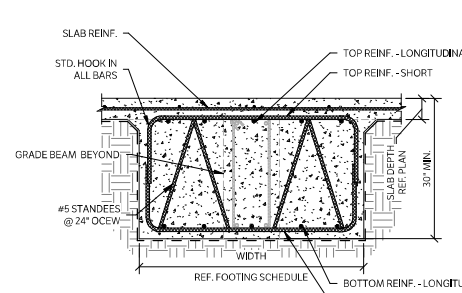
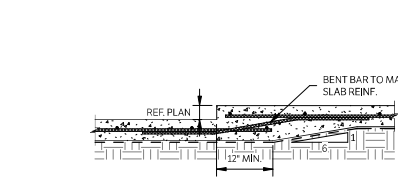
14. EXTERIOR BEAM W/ FOOTING & MASONRY LEDGE
N.T.S.

15. EXTERIOR BEAM @ STUCCO LEDGE - TYPICAL
N.T.S.

16. EXTERIOR BEAM @ STUCCO LEDGE - WIDENED
N.T.S.

17. EXTERIOR BEAM W/ FOOTING & MASONRY LEDGE - WIDENED
N.T.S.

18. EXTERIOR BEAM W/ FOOTING @ APP-BAY
N.T.S.



19. SLAB W/ DROP
N.T.S.

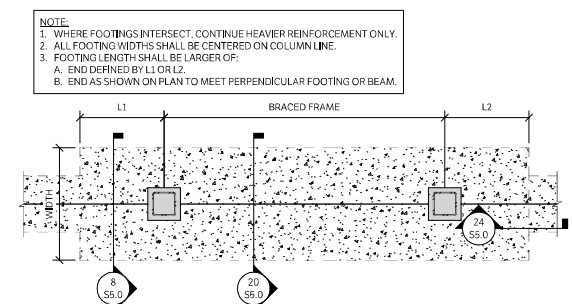
20. INTERIOR BEAM W/ FOOTING
N.T.S.

21. DEEP BEAM W/ MASONRY LEDGE
N.T.S.

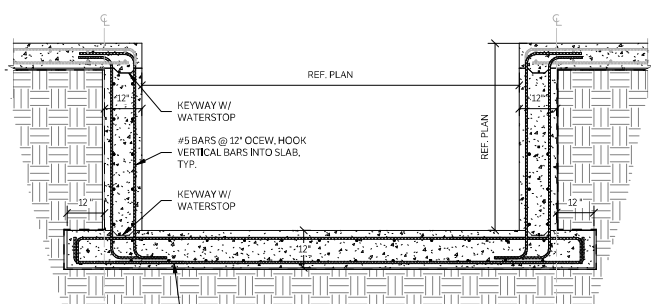
22. DEEP BEAM W/ MASONRY LEDGE & FOOTING
N.T.S.

23. DEEP BEAM TRANSITION DETAIL
N.T.S.

24. TYPICAL GRADE BEAM TO FOOTING SPLICE
N.T.S.



25. TYPICAL FOOTING PLAN VIEW
N.T.S.



26. ELEVATOR PIT
N.T.S.

NOTES:
1. REFERENCE PLANS FOR SLOPING SLAB CONDITIONS.
2. WHERE SLAB DROP IS LESS THAN OR EQUAL TO 1 1/2", SLAB REINFORCEMENT MAY BE CONTINUOUS AND BENT BELOW DROP IN LIEU OF PROVIDING BENT BARS AS SHOWN.
3. ALL SPLICES SHALL BE AS SPECIFIED IN THE GENERAL NOTES.

NO.	REVISION	DATE
1	Revision 1	Date 1

-

#5 BENT BARS, TOP AND BOTTOM

#3 BAR @ 12" OC ALONG BENT BARS

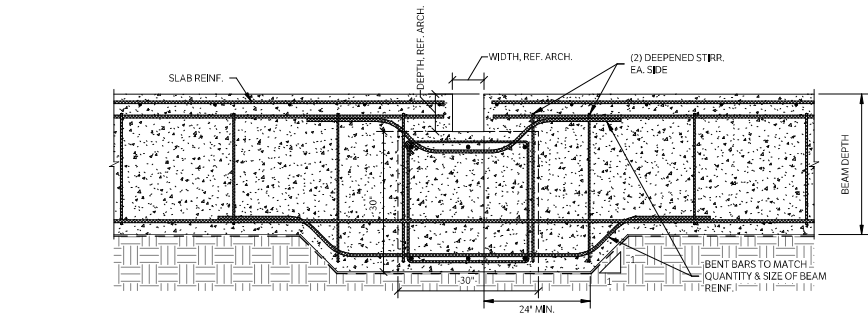
SECTION

REF. PLAN

#5 BENT BARS, TOP AND BOTTOM

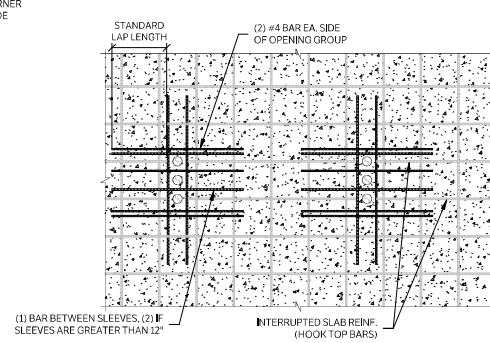
TRANSVERSE BARS TOP & BOTTOM AS REQUIRED

#3 BAR @ 12" OC ALONG BENT BARS



④ VAPOR RETARDER DETAIL
N.T.S.

-

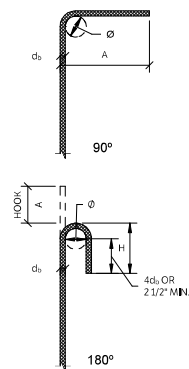


7 BEAM PENETRATION - VERTICAL
N.T.S.

- | PIER TYPE | MAX HEIGHT | Ø | MIN. DEPTH BELOW GRADE | VERT. BARS | TIES |
|---------------|------------|-----|------------------------|------------|----------|
| SITE LIGHTING | 30' - 0" | 24" | 12' - 0" | (6) #6 | #4 @ 10" |

STANDARD DOWEL HOOK DIMENSIONS				
ALL GRADES OF STEEL				
BAR SIZE	Ø	90°	180°	
		A	A	H
#3	2 1/4"	6"	5"	4"
#4	3"	8"	6"	4 1/2"
#5	3 3/4"	10"	7"	5"
#6	4 1/2"	12"	8"	6"
#7	5 1/4"	14"	10"	7"
#8	6"	16"	11"	8"

NOTE: Ø = FINISHED INSIDE BEND



BAR SIZE	$f_c = 3000$ PSI		$f_c = 4000$ PSI		$f_c = 5000$ PSI	
	Lb/Lb	0.7 Lb/Lb	Lb/Lb	0.7 Lb/Lb	Lb/Lb	0.7 Lb/Lb
#3	9	7	8	6	7	5
#4	11	8	10	7	9	7
#5	14	10	12	9	11	8
#6	17	12	15	11	13	10
#7	20	14	17	12	15	11
#8	22	16	19	14	17	12
#9	25	18	22	16	20	14
#10	28	20	25	18	22	16
#11	31	22	27	19	24	17
#14	38	-	33	-	29	-
#18	50	-	43	-	39	-

- NOTES:**
1. l_{dh} = DEVELOPMENT LENGTH OF STANDARD HOOKS IN TENSION (INCHES).
 2. l_{dh} = l_{hb} UNLESS CONDITIONS OF NOTE 3 ARE SATISFIED.
 3. l_{dh} = $0.7l_{hb}$ FOR #11 BARS AND SMALLER WHEN SIDE COVER (NORMAL TO PLANE OF HOOKS) IS NOT LESS THAN $2\frac{1}{2}$ INCHES AND FOR 90° HOOKS COVER ON BAR EXTENSION BEYOND HOOK IS NOT LESS THAN 2 INCHES.
 4. HOOKS ARE NOT CONSIDERED EFFECTIVE FOR DEVELOPING BARS IN COMPRESSION.
 5. l_{dh} SHALL BE MULTIPLIED BY 1.2 FOR EPOXY-COATED HOOKED REINF. BARS.

10 DEVELOPMENT LENGTHS OF STANDARD HOOKS IN TENSION
N.T.S.

STRUT/PULEY HOOK DIMENSIONS						
ALL GRADES OF STEEL: D = FINISHED INSIDE BEND Ø						
BAR SIZE	Ø	90° HOOK		135° HOOK		180° HOOK
		A (OR G)	A (OR G)	H (APPROX.)	A (OR G)	H (APPROX.)
#3	1 1/2"	4"	4 1/4"	3"	4 1/4"	3"
#4	2"	4 1/2"	5 1/2"	3"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"	5 1/2"	3 3/4"
#6	3"	8"	6"	4 1/2"	6"	4 1/2"
#7	5 1/4"	14"	9"	5 1/4"	9"	5 1/4"
#8	6"	16"	10 1/2"	6"	10 1/2"	6"

Figure 1 shows three diagrams of rectangular stirrups labeled S1, S2, and S3. S1 is a single rectangular stirrup. S2 is a rectangular stirrup with a hook at the top. S3 is a rectangular stirrup with a hook at the top and a vertical line through the center. A label 'SAME SIZE AND SPACING AS SCHEDULED STIRRUPS' points to the top hooks of S2 and S3.

NOTES:

1. ALL SPACE LENGTHS ARE IN INCHES.
2. SPACE TYPE CLASS "A" MAY BE USED WHERE 50% OR LESS OF THE BARS IN ANY GIVEN SECTION ARE SPICED. OTHERWISE, SPACE TYPE CLASS "B" SHALL BE USED.
3. FOR NONCONTACT SPICES IN FLURAL MEMBERS, THE TRANSVERSE ON CENTER SPACING OF SPICED BARS SHALL NOT EXCEED THE LESSER OF 1/3 THE REQUIRED LAP SPACE LENGTH OR 6".
4. THIS TABLE SHALL BE USED FOR BEAMS AND JOISTS ONLY. REFER TO OTHER DEVELOPMENT LENGTH TABLES FOR OTHER MEMBERS.
5. THE TENSION DEVELOPMENT LENGTH (L_{DE}) IS EQUAL TO THE SCHEDULED "CLASS A" LAP SPACE LENGTH.
6. BOTTOM BAR IS DEFINED AS ANY BAR THAT DOES NOT HAVE MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR.
7. OTHER BARS INCLUDE TOP BARS, FACE BARS, AND ALL OTHER BARS THAT HAVE MORE THAN 12" OF FRESH CONCRETE ON ONE OR BOTH SIDES.
8. FOR EPOXY-COATED BARS, MULTIPLY THE TABULATED SPACE LENGTHS OF BOTTOM BARS BY 1.5 AND THE TABULATED SPACE LENGTHS OF OTHER BARS BY 1.3.
9. WHEN SPACING BARS OF DIFFERENT SIZES, THE SPACE LENGTH IS DETERMINED BY THE SMALLER BAR BUT MAY NOT BE LESS THAN THE "CLASS A" SPACE LENGTH OF THE LARGER BAR.

NOTES:

1. ALL SPICE LENGTHS ARE IN INCHES.
2. SPICE TYPE CLASS "A" MAY BE USED WHERE 50% OR LESS OF THE BARS IN A GIVEN SECTION ARE SPICED. OTHERWISE, SPICE TYPE CLASS "B" SHALL BE USED.
3. FOR NONCONTACT SPICES IN FLEXURAL MEMBERS, THE TRANSVERSE ON CENTER SPACING OF SPICED BARS SHALL NOT EXCEED 12" OR 16" FOR SLABS AND BEAMS, RESPECTIVELY.
4. THIS TABLE SHALL BE USED FOR SLABS ONLY. REFER TO OTHER DEVELOPMENT LENGTH TABLES FOR OTHER MEMBERS.
5. THE MINIMUM DEVELOPMENT LENGTH ($l_{d \text{ min}}$) IS EQUAL TO THE SCHEDULED "CLASS A" LAP SPICE LENGTH.
6. A BOTTOM BAR IS DEFINED AS ANY BAR THAT DOES NOT HAVE MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR.
7. TOP BARS INCLUDE TOP BARS AND ALL OTHER BARS THAT HAVE MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR. FOR TOP REINFORCEMENT IN SLABS THAT ARE 12" THICK OR LESS, TABULATED SPICE LENGTHS FOR BOTTOM BARS SHALL BE USED.
8. TOP BARS ARE BARS WITH TABULATED SPICE LENGTHS OF BOTTOM BARS BY 1.5 AND THE TABULATED SPICE LENGTHS OF OTHER BARS BY 1.3.
9. THE DEVELOPING LENGTH OF BARS OF OTHER THAN CLASS A LAP SPICE LENGTHS IS DETERMINED BY THE SMALLER BAR BUT MAY NOT BE LESS THAN THE "CLASS A" SPICE LENGTH OF THE LARGER BAR.

15 SLAB TENSION DEVELOPMENT AND LAP SPLICE LENGTHS
N.T.S.

BEAM AND JOIST TENSION DEVELOPMENT AND LAP SPACE LENGTHS GRADE 60 REINFORCEMENT, NORMAL WEIGHT CONCRETE							
BAR SIZE	LAP CLASS	PS = 3000 PSI		PS = 4000 PSI		PS = 5000 PSI	
		BOTTOM BARS	OTHER BARS	BOTTOM BARS	OTHER BARS	BOTTOM BARS	OTHER BARS
#3	A	12	13	12	12	12	12
	B	16	17	16	16	16	16
#4	A	16	25	14	14	12	12
	B	21	25	19	24	16	16
#5	A	23	29	20	25	18	23
	B	30	38	26	33	24	30
#6	A	31	40	27	35	24	31
	B	41	52	36	46	32	41
#7	A	46	60	40	52	36	46
	B	60	78	52	65	47	60
#8	A	62	78	52	65	47	60
	B	78	102	68	88	60	78
#9	A	64	84	56	72	50	65
	B	84	110	73	94	65	85
#10	A	72	93	62	81	56	72
	B	94	121	81	104	73	94
#11	A	85	110	74	95	66	85
	B	111	143	97	125	86	112

SLAB TENSILE DEVELOPMENT AND LAP SPlice LENGTHS GRADE 60 REINFORCEMENT, NORMALWEIGHT CONCRETE							
BAR SIZE	LAP CLASS	f _c = 3000 PSI		f _c = 4000 PSI		f _c = 5000 PSI	
		BOTTOM BARS	TOP BARS	BOTTOM BARS	TOP BARS	BOTTOM BARS	TOP BARS
#3	A	12	13	12	12	12	12
	B	16	17	16	16	16	16
#4	A	17	22	16	19	13	17
	B	23	29	21	25	17	23
#5	A	25	32	20	28	19	25
	B	33	42	28	37	25	33
#6	A	33	43	29	37	26	34
	B	43	56	38	49	34	45
#7	A	53	69	46	60	42	54
	B	69	90	60	78	56	71
#8	A	66	86	57	74	51	67
	B	86	112	75	97	67	88
#9	A	80	104	69	90	62	81
	B	104	136	90	117	81	106
#10	A	96	125	83	108	75	97
	B	125	163	108	141	98	127
#11	A	113	146	98	127	107	114
	B	147	192	128	166	114	149

- | NOTES: | NOTES: |
|--|--|
| 1. ALL SPICE LENGTHS ARE IN INCHES. | 1. ALL SPICE LENGTHS ARE IN INCHES. |
| 2. "SPICE TYPE CLASS 'A' MAY BE USED WHERE 50% OR LESS OF THE BARS IN ANY GIVEN SECTION ARE SPICED. OTHERWISE, "SPICE TYPE CLASS 'B' SHALL BE USED." | 2. "SPICE TYPE CLASS 'A' MAY BE USED WHERE 50% OR LESS OF THE BARS IN ANY GIVEN SECTION ARE SPICED. OTHERWISE, "SPICE TYPE CLASS 'B' SHALL BE USED." |
| 3. FOR NONCONTACT SPICES IN FLEXURAL MEMBERS, THE TRANSVERSE ON CENTER SPACING OF SPICED BARS SHALL NOT EXCEED 16 TIMES THE DIAMETER OF THE BARS. FOR ALL OTHER MEMBERS, THE TRANSVERSE ON CENTER SPACING OF SPICED BARS SHALL NOT EXCEED 18 TIMES THE DIAMETER OF THE BARS. | 3. FOR NONCONTACT SPICES IN FLEXURAL MEMBERS, THE TRANSVERSE ON CENTER SPACING OF SPICED BARS SHALL NOT EXCEED 16 TIMES THE DIAMETER OF THE BARS. FOR ALL OTHER MEMBERS, THE TRANSVERSE ON CENTER SPACING OF SPICED BARS SHALL NOT EXCEED 18 TIMES THE DIAMETER OF THE BARS. |
| 4. THIS TABLE SHALL BE USED FOR BEAMS AND COLUMNS ONLY. REFER TO OTHER DEVELOPMENT LENGTH TABLES FOR OTHER MEMBERS. | 4. THIS TABLE SHALL BE USED FOR SLABS ONLY. REFER TO OTHER DEVELOPMENT LENGTH TABLES FOR OTHER MEMBERS. |
| 5. DEVELOPMENT LENGTH (L _{DE}) IS EQUAL TO THE SCHEDULED "CLASS 'A' LAP SPICE LENGTH." | 5. DEVELOPMENT LENGTH (L _{DE}) IS EQUAL TO THE SCHEDULED "CLASS 'A' LAP SPICE LENGTH." |
| 6. A BOTTOM BAR IS DEFINED AS ANY BAR THAT DOES NOT HAVE MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR. | 6. A BOTTOM BAR IS DEFINED AS ANY BAR THAT DOES NOT HAVE MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR. |
| 7. OTHERS INCLUDE TOP BARS, FACE BARS, AND ALL OTHER BARS THAT HAVE MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR. | 7. OTHERS INCLUDE TOP BARS AND ALL OTHER BARS THAT HAVE MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR. FOR TOP REINFORCEMENT IN SLABS THAT ARE 12" THICK OR LESS, TABULATED SPICE LENGTHS FOR BOTTOM BARS SHALL BE USED. |
| 8. FOR EPOXY-COATED BARS, MULTIPLY THE TABULATED SPICE LENGTHS OF BOTTOM BARS BY 1.5 AND THE TABULATED SPICE LENGTHS OF OTHER BARS BY 1.3. | 8. FOR EPOXY-COATED BARS, MULTIPLY THE TABULATED SPICE LENGTHS OF BOTTOM BARS BY 1.5 AND THE TABULATED SPICE LENGTHS OF OTHER BARS BY 1.3. |
| 9. WHEN LAP SPICING BARS OF DIFFERENT SIZES, THE LAP LENGTH IS DETERMINED BY THE SMALLER BAR BUT MAY NOT BE LESS THAN THE "CLASS 'A' SPICE LENGTH OF THE LARGER BAR." | 9. WHEN LAP SPICING BARS OF DIFFERENT SIZES, THE LAP LENGTH IS DETERMINED BY THE SMALLER BAR BUT MAY NOT BE LESS THAN THE "CLASS 'A' SPICE LENGTH OF THE LARGER BAR." |

15 SLAB TENSION DEVELOPMENT AND LAP SPLICE LENGTHS
N.T.S.

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EHR
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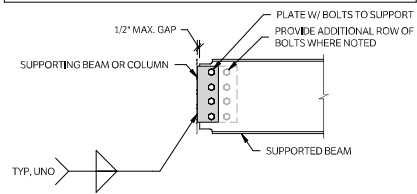
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S5.1

ISSUE FOR BID

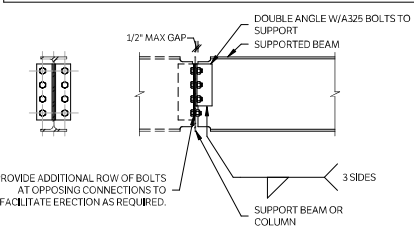
FOUNDATION DETAILS

NOTES:
1. PROVIDE THIS CONNECTION WHERE NOTED AND FOR THE FOLLOWING CONDITIONS:
A. WIDE FLANGE BEAM TO HSS COLUMN.
B. WIDE FLANGE BEAM TO BEAM OR COLUMN CONNECTIONS WHERE CAPACITIES ARE SUFFICIENT.
C. WIDE FLANGE BEAM TO EMBED PLATE.



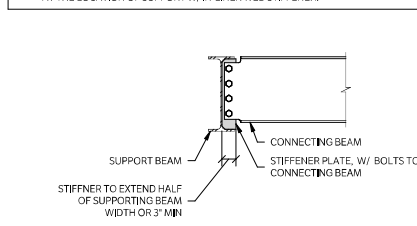
1 SHEAR CONNECTION - SINGLE PLATE
N.T.S.

NOTES:
1. PROVIDE THIS CONNECTION WHERE NOTED AND FOR THE FOLLOWING CONDITIONS:
A. WIDE FLANGE BEAM TO WIDE FLANGE BEAM CONNECTIONS.
B. WIDE FLANGE BEAM TO WIDE FLANGE COLUMN.
2. A SINGLE PLATE SHEAR CONNECTION PER 1 / 55.4 MAY BE USED IN LIEU OF DOUBLE ANGLES WHERE CAPACITIES ARE SUFFICIENT.

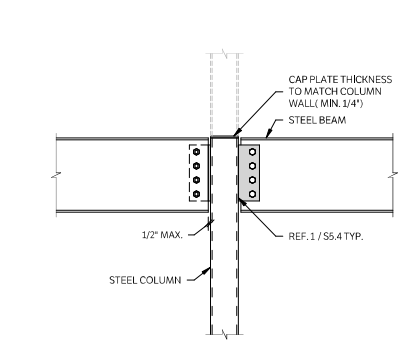


2 SHEAR CONNECTION - DOUBLE ANGLE
N.T.S.

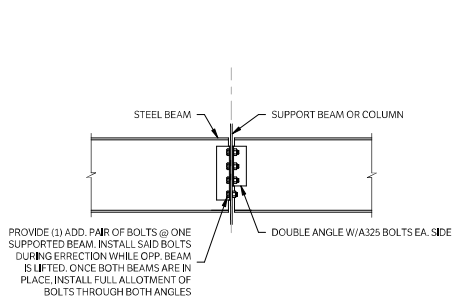
NOTES:
1. PROVIDE THIS CONNECTION WHERE NOTED AND FOR THE FOLLOWING CONDITIONS:
A. WIDE FLANGE BEAMS CONNECTING TO GIRDERS CONTINUOUS OVER SUPPORT COLUMNS AT THE LOCATION OF SUPPORT.
B. WIDE FLANGE BEAMS CONNECTING TO GIRDERS SUPPORTING COLUMNS ABOVE AT THE LOCATION OF SUPPORT W/ IN-LINER WEB STIFFENER.



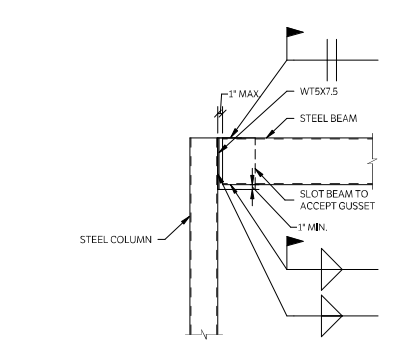
3 SHEAR CONNECTION - STIFFENER PLATE
N.T.S.



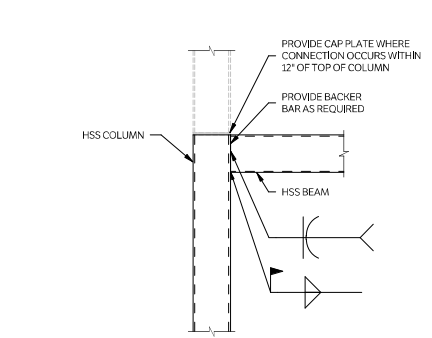
4 BEAM TO HSS COLUMN-SHEAR CONNECTION
N.T.S.



5 TWO BEAMS TO SUPPORT W/ ERECTION BOLT
N.T.S.

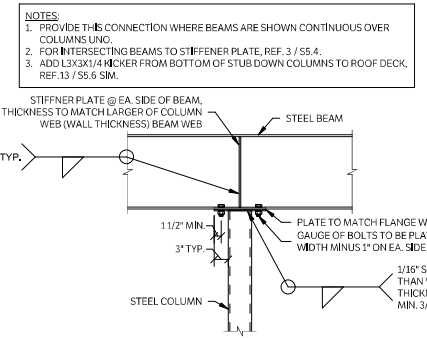
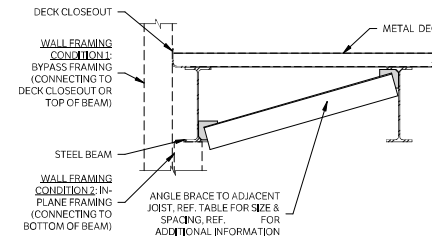


6 HSS SPANDREL BEAM TO COLUMN - INTERMEDIATE
N.T.S.



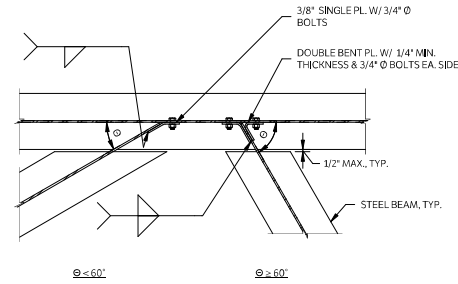
7 HSS BEAM TO HSS COLUMN - FIXED
N.T.S.

WALL FRAMING CONDITION	ANGLE BRACE
1	L2K2X3/16 @ 10'-0" OC, MAX.
2	L3X3X1/4 @ 9'-0" OC, MAX.

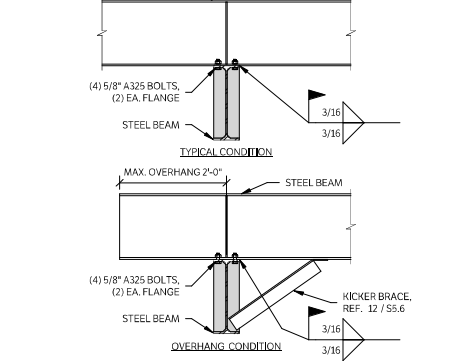


8 BEAM OVER COLUMN CONNECTION
N.T.S.

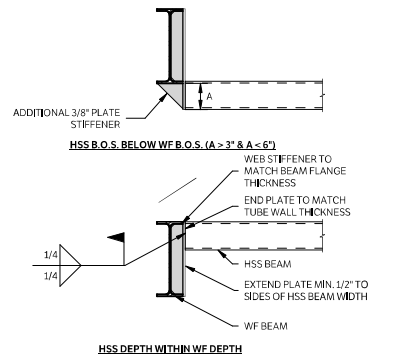
NOTE: PROVIDE THIS CONNECTION AT SKEWED BEAM TO BEAM CONNECTIONS



10 BEAM TO HSS COLUMN MOMENT CONNECTION
N.T.S.



11 PERPENDICULAR BEAM TO BEAM - OFFSET ELEVATIONS
N.T.S.



12 HSS BEAM TO WF BEAM CONNECTION
N.T.S.

13 EXTERIOR BEAM PARALLEL TO STEEL JOIST
N.T.S.

14 SKEWED BEAM TO BEAM CONNECTIONS
N.T.S.

BROWN REYNOLDS WATFORD ARCHITECTS
175 CENTURY SQUARE DRIVE
SUITE 330
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BROWN REYNOLDS WATFORD ARCHITECTS, INC.
DATE 04/24/2025
DRAWN BY CWR
CHECKED BY EJR
PROJECT NUMBER 24-370

KINGSVILLE FIRE STATION NO. 3
2602 S 6TH ST.
KINGSVILLE, TX 78363

NO.	REVISION	DATE

S5.4

ISSUE FOR BID

TYPICAL STEEL DETAILS

CONSTRUCTION JOINT

#4x8' - 0" DOWEL @ 18" OC

WELDED WIRE MESH STOP AT JOINT

DECK PERPENDICULAR TO BEAM

CONSTRUCTION JOINT

#4x8' - 0" DOWEL @ 18" OC

DECK PARALLEL TO BEAM

The diagram illustrates the staggered placement of shear studs on a steel beam. The top part shows a cross-section of the beam with shear studs (circles) and a label "SHEAR STUDS, TYP." and "TOS REF. PLAN". The bottom part shows a plan view of the beam with shear studs (circles) and a label "WHERE SPACING REQUIRES (2) SHEAR STUDS STAGGER ABOUT CENTRELINE OF BEAM". The plan view is divided into two sections, each labeled "1/2 TOTAL NUMBER OF SHEAR STUDS", with a total label "TOTAL NUMBER OF SHEAR STUDS SHOWN ON PLAN".

The technical drawings illustrate the deck assembly details. The plan view (top left) shows the deck layout with a central opening of 5'-0" MAX. and a span direction indicated. The section view A-A (top right) shows the deck assembly with a 3/16" gap, a C6X8.2 channel, and a 1/4" gap. The section view B-B (bottom right) shows the deck assembly with a 3/16" gap, a C6X8.2 channel, and a 1/4" gap. The drawings also show the removal of the deck after slab curing and the installation of the slab concrete.

SECTION A-A

SECTION B-B

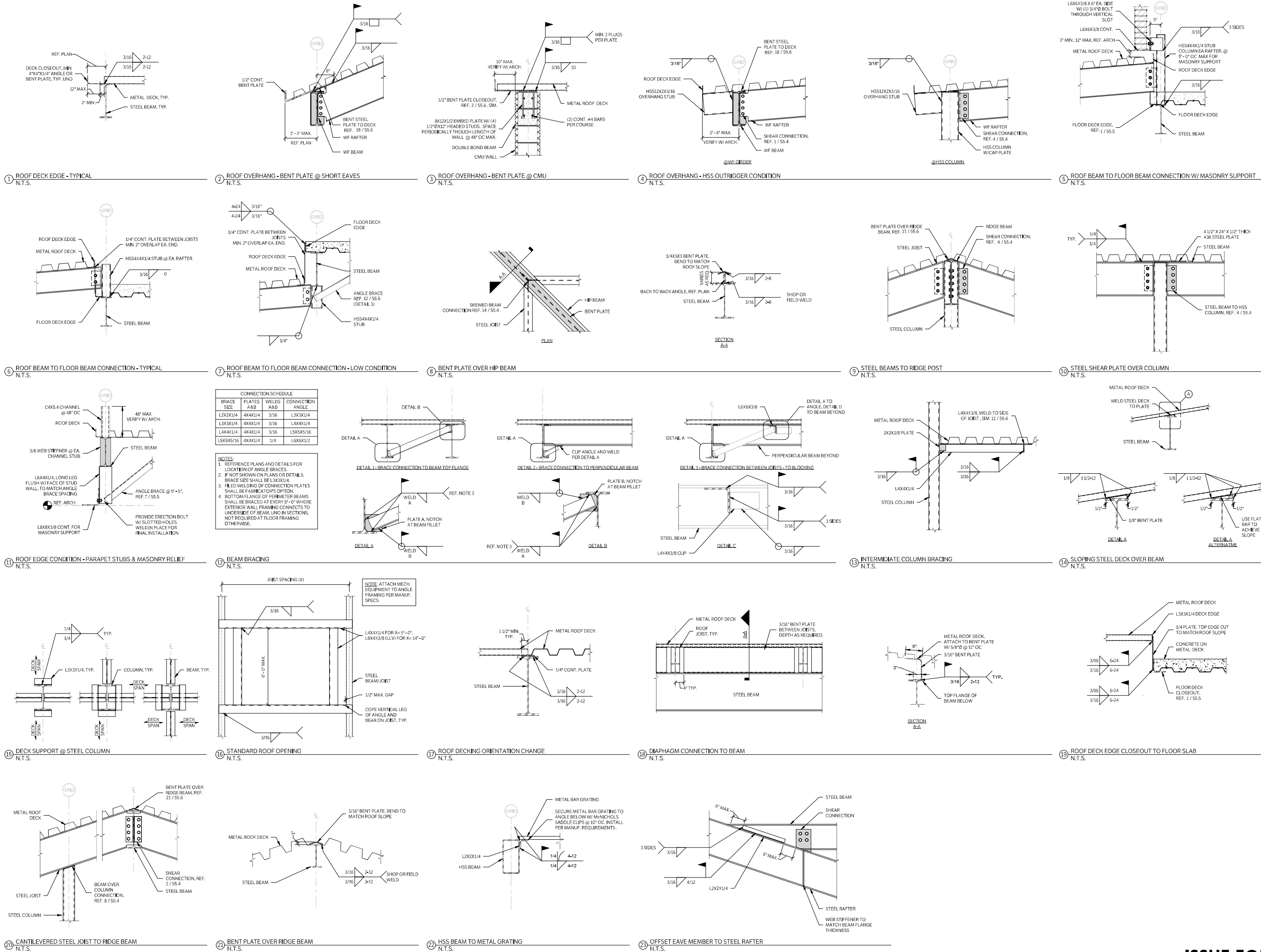
⑥ LARGE MECHANICAL OPENING IN COMPOSITE SLAB
N.T.S.

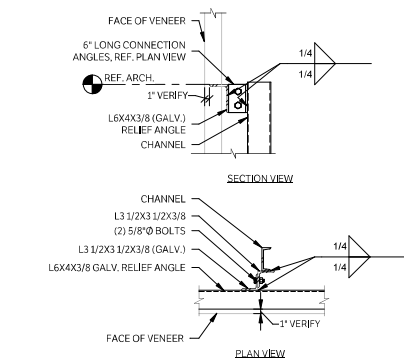
Technical drawings illustrating various deck beam connections and details:

- BRACE CONNECTION TO BEAM TOP FLANGE:** Shows a side view of a beam with a brace connected to the top flange. Details A and B are indicated.
- BRACE CONNECTION TO DECK:** Shows a side view of a beam with a brace connected to the deck. Details A, B, and C are indicated. Annotations include:
 - CONNECTION ANGLE (LENGTH = FLUTE SPACING - 4") W/ (2) 3/4"Ø EXPANSION ANCHORS WITH 5/2" EMBED. MIN.
 - DETAIL B, SIM.
 - DETAIL C FOR BRACE PERP. TO DECK FLUTES
 - ANGLE BRACE, TYP.
- DECK PARALLEL TO BEAMS AT BEAMS:** Shows a side view of a beam with a deck parallel to the beams. Details A and D are indicated.
- DETAIL A:** Shows a detail of a beam with a notch at the beam fillet. Annotations include:
 - WELD A
 - REF. NOTE 3
 - WELD B
 - PLATE A, NOTCH AT BEAM FILLET
- DETAIL B:** Shows a detail of a beam with a notch at the beam fillet. Annotations include:
 - WELD B
 - REF. NOTE 3
 - WELD A
 - DETAIL B
- DETAIL C:** Shows a detail of a beam with a notch at the beam fillet. Annotations include:
 - PLATE B, NOTCH AT BEAM FILLET
 - L4X4X1/4
 - WELD B
 - DETAIL C
- DETAIL D:** Shows a detail of a beam with a notch at the beam fillet. Annotations include:
 - STEEL BEAM L6X6X3/8
 - L4X4X3/8 CLIP
 - DETAIL D
 - 3/16"
 - 3 SIDES
 - 3/16"
 - 3/16"

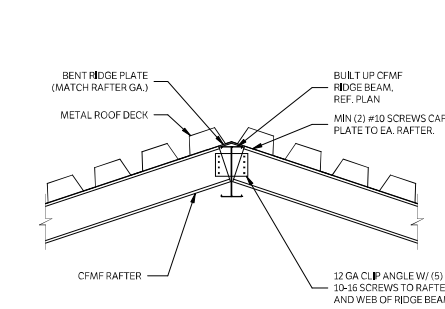
⑦ COMPOSITE SLAB BEAM BRACING
N.T.S.

⑩ COMPOSITE STEEL DECK AT CORNER
N.T.S.

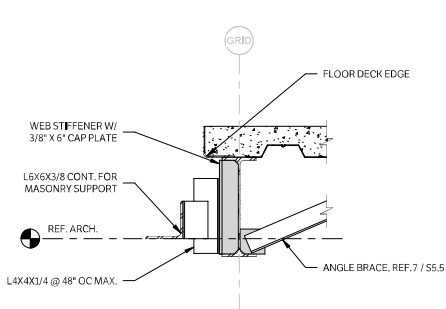




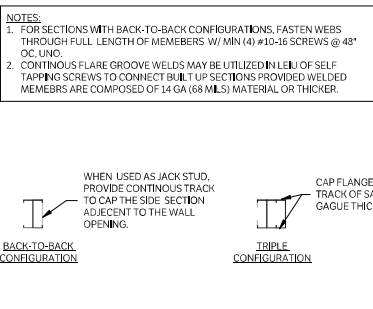
1 TYPICAL RELIEF ANGLE
N.T.S.



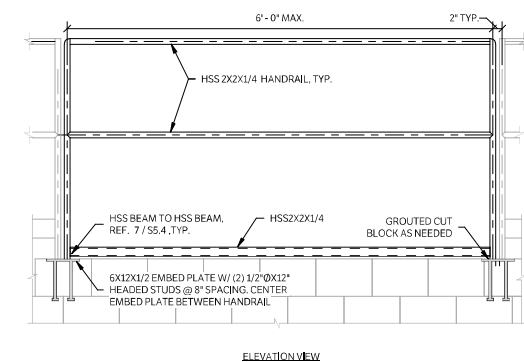
2 LIGHT GAUGE RAFTER TO BACK TO BACK RIDGE BEAM
N.T.S.



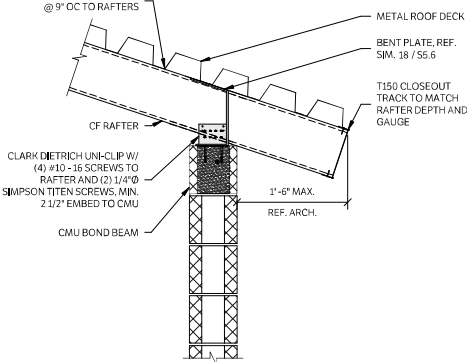
3 MASONRY SUPPORT @ FLOOR CONDITION
N.T.S.



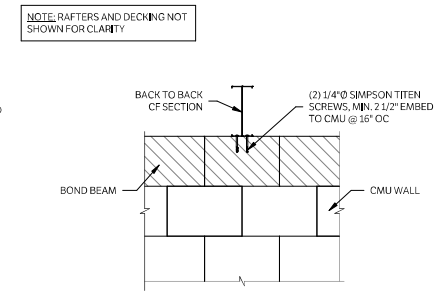
4 BUILT-UP SECTION CONFIGURATIONS
N.T.S.



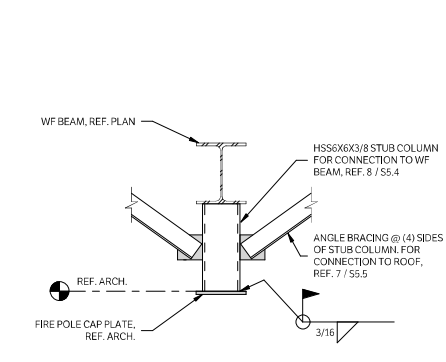
5 STEEL RAILING SUPPORT ASSEMBLY
N.T.S.



6 LIGHT GAUGE RAFTER OVER CMU WALL
N.T.S.

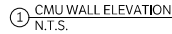


7 BACK TO BACK SECTION OVER CMU WALL
N.T.S.



8 FIRE POLE ATTACHMENT TO ROOF FRAMING
N.T.S.

NO.	REVISION	DATE



BOND BEAM REINF. TYP.

CORNER BAR W/EQ LEGS TO MATCH BOND BEAM REINF.

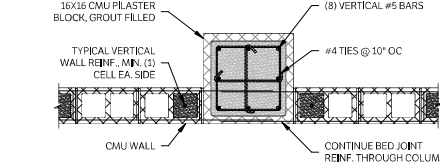
2'-0" LAP
TYP.

5 CMU BOND BEAM CORNER REINFORCMENT
N.T.S.

Diagram illustrating the reinforcement details for a wall opening:

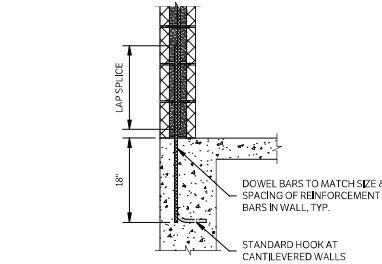
- REBAR POSITIONER**: Indicated on the left side of the opening.
- OPENING WIDTH W**: The width of the opening.
- EDGE OF OPENING, TYP.**: The edge of the opening, shown on both sides.
- REINF. @ EA JAMB, REF. SCHEDULE TYP.**: Reinforcement at each jamb, referenced to the typical schedule.
- REINF. & GROUT ADDITIONAL CELLS AS REQ'D PER SCHEDULE, TYP.**: Reinforcement and grout in additional cells as required per the typical schedule.

⑥ CMU JAMB DETAIL
N.T.S.



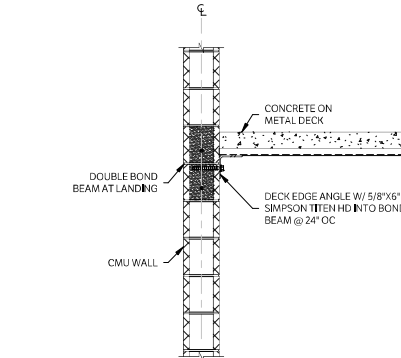
7 CMU PILASTER DETAIL
N.T.S.

3 CMU WALL CORNER REINFORCING DETAIL
N.T.S.



8 CMU WALL TO FOUNDATION
N.T.S.

④ CMU CONTROL JOINT DETAIL
N.T.S.



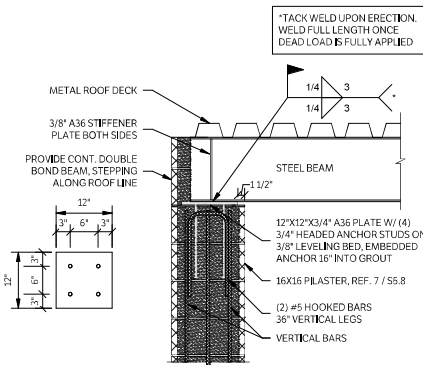
⑨ CONCRETE OVER METAL DECK TO CMU WALL
N.T.S.

<p><u>SINGLE</u></p> <p><u>PROVIDE WITHIN WALL:</u></p> <ul style="list-style-type: none"> • WHERE NOTED • VERTICALLY EVERY 7" - 4" • AT TOP OF ALL PARAPET & NON-LOAD BEARING WALLS • AT ENDS OF ASSOCIATED BOND BEAM OVER OPENING EXTENDED OVER JAMB CELLS <p><u>PROVIDE OVER OPENING:</u></p> <ul style="list-style-type: none"> • WHERE NOTED • OVER NON-LOAD BEARING OPENINGS NOT GREATER THAN 3'-0" 	<p>Diagram illustrating Single Reinforcement details. The left side shows a wall section with vertical reinforcement bars (1) #5 BAR and GROUT. The right side shows a wall section over an opening, with U-BLOCK, GROUT, and EXTEND REIN. INTO BOND BEAM. Labels include '6x' and '2x'.</p>
<p><u>DOUBLE</u></p> <p><u>PROVIDE WITHIN WALL:</u></p> <ul style="list-style-type: none"> • WHERE NOTED • AT FLOOR & ROOF BEARING LINES • AT ENDS OF ASSOCIATED BOND BEAM OVER OPENING EXTENDED OVER JAMB CELLS <p><u>PROVIDE OVER OPENING:</u></p> <ul style="list-style-type: none"> • WHERE NOTED • OVER NON-LOAD BEARING OPENINGS NOT GREATER THAN 7'-0" 	<p>Diagram illustrating Double Reinforcement details. The left side shows a wall section with vertical reinforcement bars (1) #5 BAR, EA CELL, and GROUT. The right side shows a wall section over an opening, with U-BLOCK, GROUT, and EXTEND REIN. INTO BOND BEAM. Labels include '6x' and '2x'.</p>
<p><u>TRIPLE</u></p> <p><u>PROVIDE WITHIN WALL:</u></p> <ul style="list-style-type: none"> • WHERE NOTED • AT ENDS OF ASSOCIATED BOND BEAM OVER OPENING EXTENDED OVER JAMB CELLS <p><u>PROVIDE OVER OPENING:</u></p> <ul style="list-style-type: none"> • WHERE NOTED 	<p>Diagram illustrating Triple Reinforcement details. The left side shows a wall section with vertical reinforcement bars (1) #5 BAR, EA CELL, and GROUT. The right side shows a wall section over an opening, with U-BLOCK, GROUT, and EXTEND REIN. INTO BOND BEAM. Labels include '6x' and '2x'.</p>

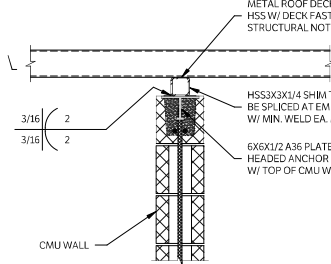
10 BOND BEAM SCHEDULE
N.T.S.

BAR SIZE	LAP LENGTH	
	BOND BEAM	VERT. REINF.
#4	1' - 8"	2' - 6"
#5	2' - 1"	3' - 2"
#6	2' - 6"	3' - 9"
#7	2' - 11"	4' - 5"

NOTE: DO NOT SPLICE BARS IN BOND BEAMS OVER OPENINGS.

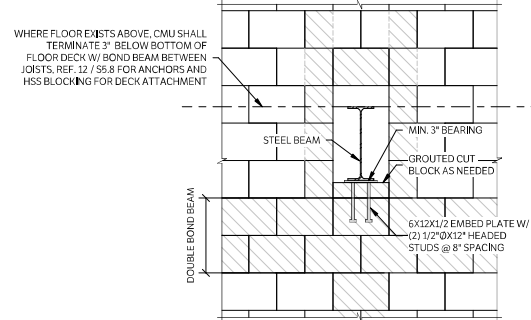


⑪ STEEL BEAM TO CMU PILASTER
N.T.S.



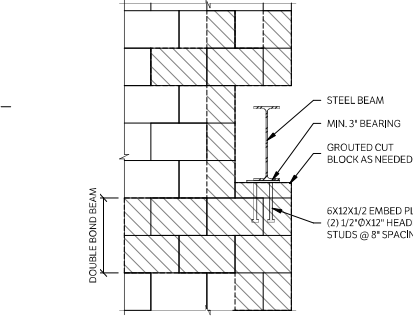
⑫ CMU TO DECK CONNECTION
N.T.S.

WHERE FLOOR EXISTS ABOVE, CMU SHALL
TERMINATE 3" BELOW BOTTOM OF
FLOOR DECK W/ BOND BEAM BETWEEN
JOISTS, REF. 12 / S5.8 FOR ANCHORS AND
HSS BLOCKING FOR DECK ATTACHMENT

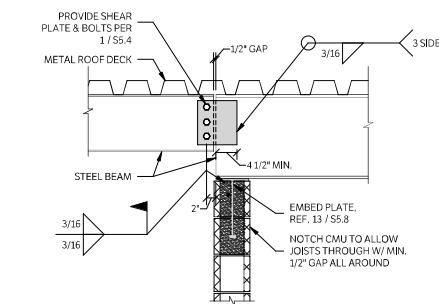


⑬ STEEL BEAM TO CMU WALL - SECTION
N.T.S.

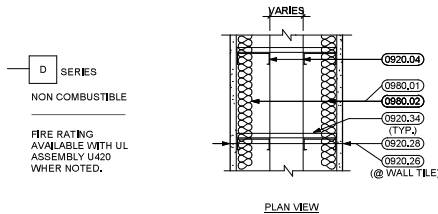
NOTE: (2) VERTICAL CMU CELLS SHALL BE FULLY GROUTED & REINF. W/ #5 VERTICAL BARS BELOW & MIN. (1) CELL ADJACENT TO THE STEEL BEARING LOCATION.



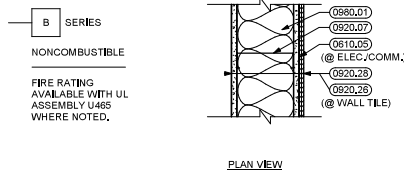
14 STEEL BEAM TO CMU WALL @ CORNER
N.T.S.



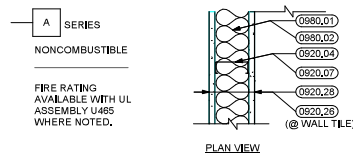
15 STEEL BEAM SPLICE OVER CMU WALL
N.T.S.



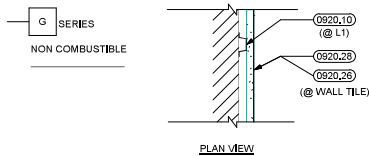
PTN TYPE	STUD	PART WIDTH	PART HEIGHT	FIRE RATING	INSUL.	NOTES
D1	3 5/8" AT 16" O.C.	1' - 1 1/8"	TO DECK	N/A	3 1/2" FGL	BACKER BOARD + TILE @ TILE SIDE AND PLYWOOD @ ELECTRICAL ROOM SIDE
D2	3 5/8" AT 16" O.C.	1' - 5"	TO DECK	N/A	3 1/2" FGL	BACKER BOARD + TILE @ BOTH SIDES
D3	3 5/8" AT 16" O.C.	1' - 4"	TO DECK	N/A	3 1/2" FGL	BACKER BOARD + TILE @ TILE SIDE
D3	3 5/8" AT 16" O.C.	1' - 2"	TO DECK	N/A	3 1/2" FGL	BACKER BOARD + TILE @ BOTH SIDES



PTN TYPE	STUD	PART WIDTH	PART HEIGHT	FIRE RATING	INSUL.	NOTES
B1	6" AT 16" O.C.	7 1/4"	TO DECK	N/A	3 1/2" FGL	
B2	6" AT 16" O.C.	7 7/8"	TO DECK	N/A	N/A	PLYWOOD LAYER TO 8'-0" AT ELECTRICAL ROOM SIDE. GYP LAYER TO 9'-6"
B3	6" AT 16" O.C.	7 1/4"	6" ABOVE CEILING	N/A	3 1/2" FGL	

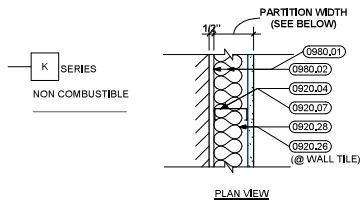


PTN TYPE	STUD	PART WIDTH	PART HEIGHT	FIRE RATING	INSUL.	NOTES
A1	3 5/8" AT 16" O.C.	4 7/8"	TO DECK	N/A	3 1/2" FGL	
A2	3 5/8" AT 16" O.C.	4 7/8"	6" ABOVE CEILING	N/A	3 1/2" FGL	
A3	3 5/8" AT 16" O.C.	5 3/8"	TO DECK	N/A	N/A	BACKER BOARD + TILE AT CERAMIC TILE SIDE
A4	3 5/8" AT 16" O.C.	5 7/8"	TO DECK	N/A	N/A	BACKER BOARD + TILE BOTH SIDES



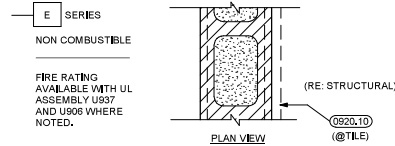
PTN TYPE	STUD	PART WIDTH	PART HEIGHT	FIRE RATING	INSUL.	NOTES
G1	7/8" AT 16" O.C.	1 1/2"	6" ABOVE CEILING	N/A	N/A	

- NOTES:
- EXTEND GYPSUM BOARD 6" ABOVE ACOUSTICAL CEILING TILE OR STOP AT GYPSUM BOARD CEILING UNLESS NOTED OTHERWISE (ACOUSTICAL INSULATION REQUIREMENTS DO NOT APPLY UNLESS INDICATED ABOVE)

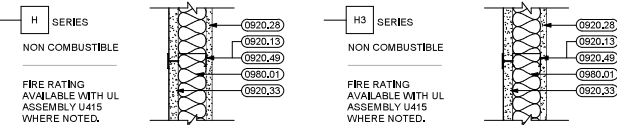


PTN TYPE	STUD	PART WIDTH	PART HEIGHT	FIRE RATING	INSUL.	NOTES
K1	3 5/8" AT 16" O.C.	4 1/4"	6" ABOVE CEILING	N/A	N/A	
K2	3 5/8" AT 16" O.C.	4 3/4"	6" ABOVE CEILING	N/A	3 1/2" FGL	PLYWOOD LAYER TO 6'-0" AT ELECTRICAL/COMM ROOM SIDE
K3	3 5/8" AT 16" O.C.	4 1/4"	6" ABOVE CEILING	N/A	N/A	BACKER BOARD + TILE AT CERAMIC TILE SIDE
K4	6" AT 16" O.C.	6 5/8"	TO DECK	N/A	3 1/2" FGL	1X GYP BD, LAYER

- NOTES:
- EXTEND GYPSUM BOARD 6" ABOVE ACOUSTICAL CEILING TILE OR STOP AT GYPSUM BOARD CEILING UNLESS NOTED OTHERWISE (ACOUSTICAL INSULATION REQUIREMENTS DO NOT APPLY UNLESS INDICATED ABOVE)



PTN TYPE	NOMINAL SIZE	PART WIDTH	PART HEIGHT	FIRE RATING	INSUL.	NOTES
E1	8" NOM. CMU	7 5/8"	TO DECK	1/2 HOUR	PERLITE	
E2	8" NOM. CMU	7 5/8"	TO ONE COURSE ABOVE CEILING	N/A	N/A	
E3	6" NOM. CMU	7 1/8"	TO DECK	N/A		7/8" FURRING + GYP LAYER ONE SIDE
E4	6" NOM. CMU	7 5/8"	TO DECK	N/A	PERLITE	7/8" FURRING + GYP LAYER; PLYWOOD LAYER TO 8'-0" AT COMM ROOM SIDE
E5	4" NOM. CMU	3 5/8"	TO HT. SHOWN	N/A	N/A	
E6	4" NOM. CMU	3 5/8"	TO DECK	N/A	N/A	7/8" FURRING + GYP LAYER ONE SIDE
E7	4" NOM. CMU	3 5/8"	TO DECK	N/A	N/A	7/8" FURRING + BACKBOARD & TILE AT CERAMIC TILE SIDE



PTN TYPE	STUD	PART WIDTH	PART HEIGHT	FIRE RATING	INSUL.	NOTES
H1	4" (C-H) AT 24" O.C.	4 5/8"	TO DECK	1 HOUR	X	1X GYP. BD, LAYER
H2	6" (C-H) AT 24" O.C.	6 5/8"	TO DECK	1 HOUR	X	1X GYP. BD, LAYER
H3	4" (C-H) AT 24" O.C. / 3 5/8" AT 16" O.C.	9"	TO DECK	1 HOUR	X	1X GYP. BD, LAYERS, FURRED OUT WALL

- NOTES:
- CROSS-LAY ALL MULTIPLE GWB LAYERS; JOINTS IN MULTIPLE LAYER ASSEMBLY SHALL NOT BE Laid DIRECTLY OVER EACH OTHER.

PARTITION TYPES

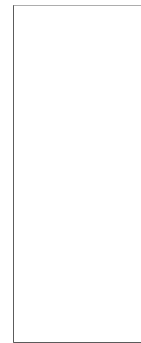
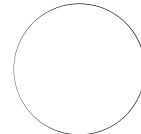
NOT TO SCALE

GENERAL NOTES:

- PARTITIONS SHALL BE TYPE "A1" UNLESS OTHERWISE NOTED.
- ALL ELEMENTS OF ACOUSTICALLY RATED PARTITIONS SHALL EXTEND TO ROOF OR FLOOR DECK ABOVE AND ALL JOINTS AND PENETRATIONS OF ACOUSTICALLY RATED PARTITIONS SHALL BE FILLED AND SEALED.
- PENETRATIONS IN RATED PARTITIONS AND CONNECTIONS OF THE PARTITIONS TO OTHER PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDED DETAILS AND IN COMPLIANCE WITH APPLICABLE TESTING AGENCY REQUIREMENTS.
- WHERE A CLEAR DIMENSION OR OPENING IS REQUIRED OR NOTED, MEASURE DIMENSION TO FACE OF PARTITION FINISH
- INSTALL BLOCKING OR BACKER MATERIAL FOR ATTACHMENT/MOUNTING OF WALL HUNG ITEMS OR EQUIPMENT DESCRIBED IN THE DOCUMENTS.
- PROVIDE CEMENTITIOUS BACKER BOARD AT AREAS THAT ARE SCHEDULED TO RECEIVE CERAMIC TILE FINISH AND AT AREAS SO REQUIRED BY CODE.
- INSTALLATION OF GYPSUM BOARD, BACKER BOARD AND BASE BOARD SHALL CONFORM TO REQUIREMENTS FOR FIRE RATINGS AND ACOUSTICAL RATINGS.
- TYPICAL FLOOR PLAN DIMENSIONS OF PARTITIONS ARE TO THE NOMINAL FINISH FACE OF GYPSUM BOARD.
- WHERE PARTITIONS AND/OR FURRING MEET, MAINTAIN A FLUSH SURFACE ON THE SIDE WHERE THE FINISH IS STRAIGHT OR CONTINUOUS UNLESS OTHERWISE NOTED.
- PROVIDE STUD BRACING AT 4'-0" O.C., STAGGERED IN ALTERNATING DIRECTIONS. BRACING SHALL ATTACH TO STUDS 1'-0" MAX. ABOVE CEILING.

KEYNOTES

- | | |
|---------|---|
| 0610,05 | 1/2" EXTERIOR GRADE PLYWOOD |
| 0920,04 | 3 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C. |
| 0920,07 | 6" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C. |
| 0920,10 | 7/8" FURRING CHANNELS AT 16" O.C. |
| 0920,13 | 4" METAL C-H STUDS AT 24" O.C. |
| 0920,26 | 5/8" CEMENTITIOUS BACKER BOARD |
| 0920,28 | 5/8" GYPSUM BOARD (TYPE X) |
| 0920,33 | 1" SHAFT LINER |
| 0920,34 | GYPSUM BOARD GUSSETS AT 16" O.C., VERTICALLY |
| 0920,49 | 3 1/2" FIBERGLASS SOUND ATTENUATION BATT INSULATION |
| 0980,01 | 4" MINERAL WOOL SOUND ATTENUATION BATT INSULATION |



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DATE APRIL 24, 2024
DRAWN BY SD, SP, LG, CD, JD
CHECKED BY JD, RH, MW
BRW PROJECT NUMBER 223136.00

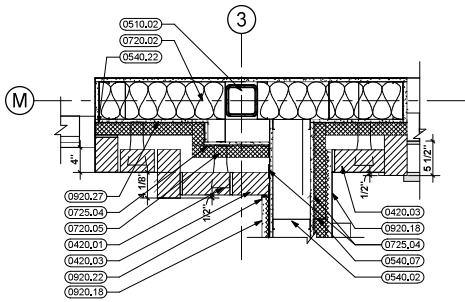


NO.	REVISION	DATE

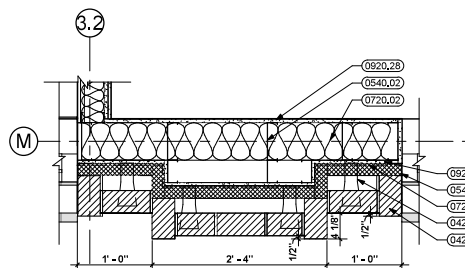


ISSUE FOR BID

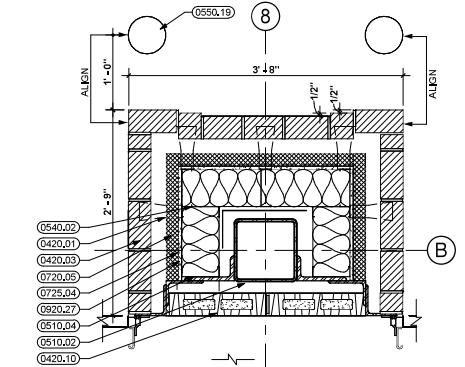
3 PLAN DETAIL
1" = 1'-0"



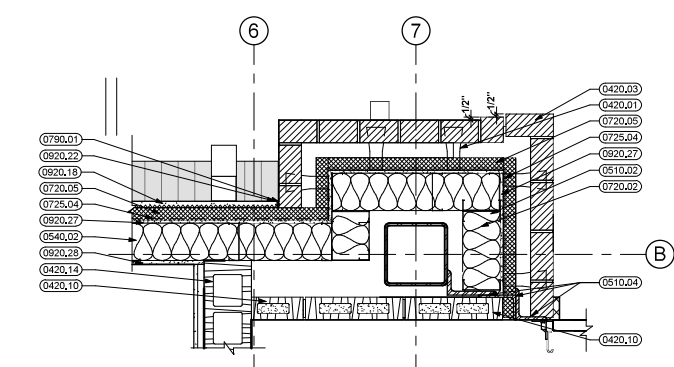
4 PLAN DETAIL
1" = 1'-0"



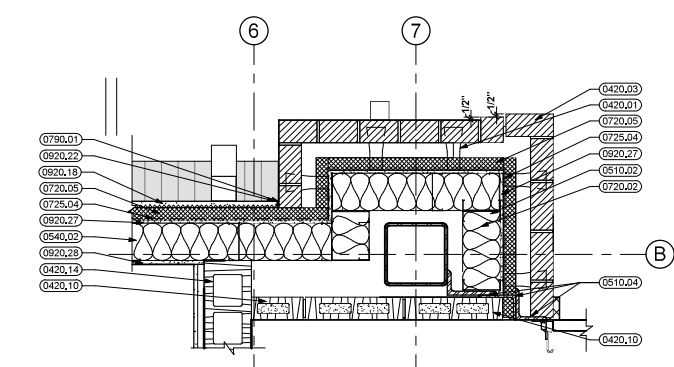
5 PLAN DETAIL
1" = 1'-0"



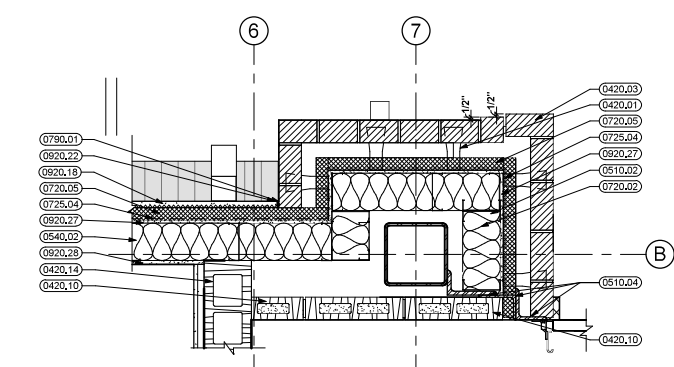
6 PLAN DETAIL
1" = 1'-0"



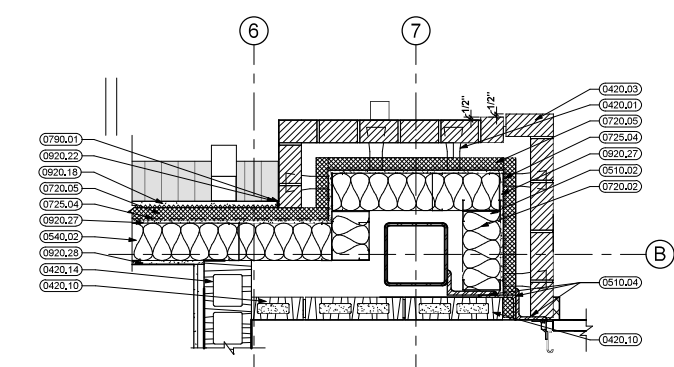
10 PLAN DETAIL
1" = 1'-0"



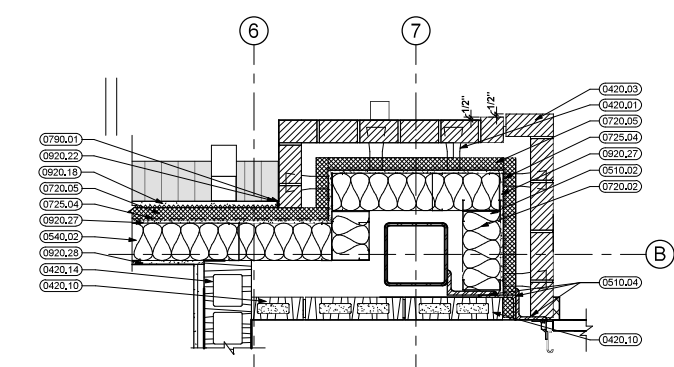
9 PLAN DETAIL
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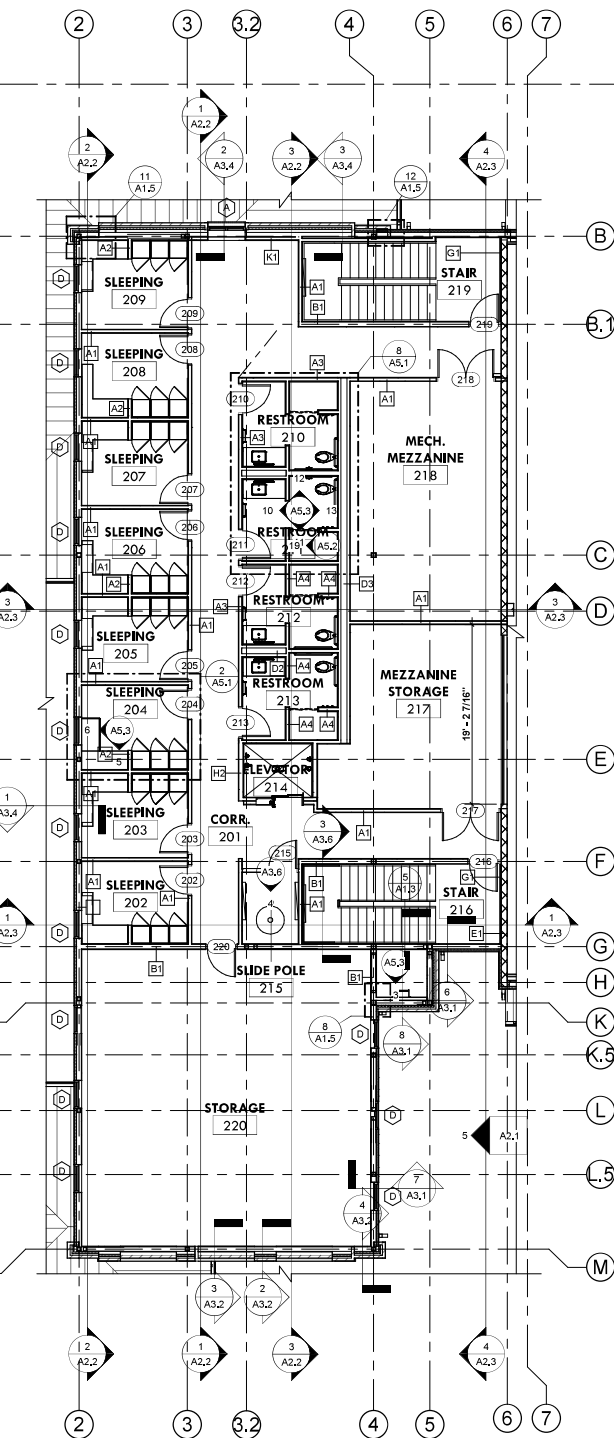
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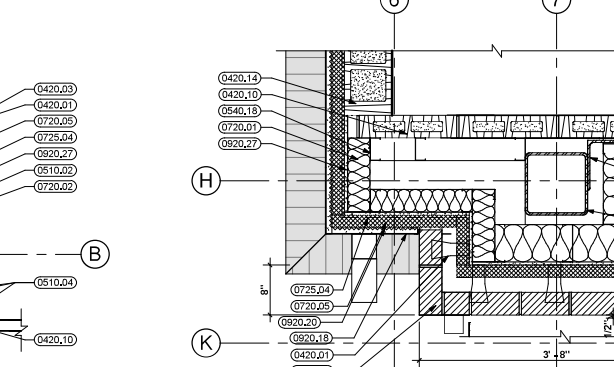
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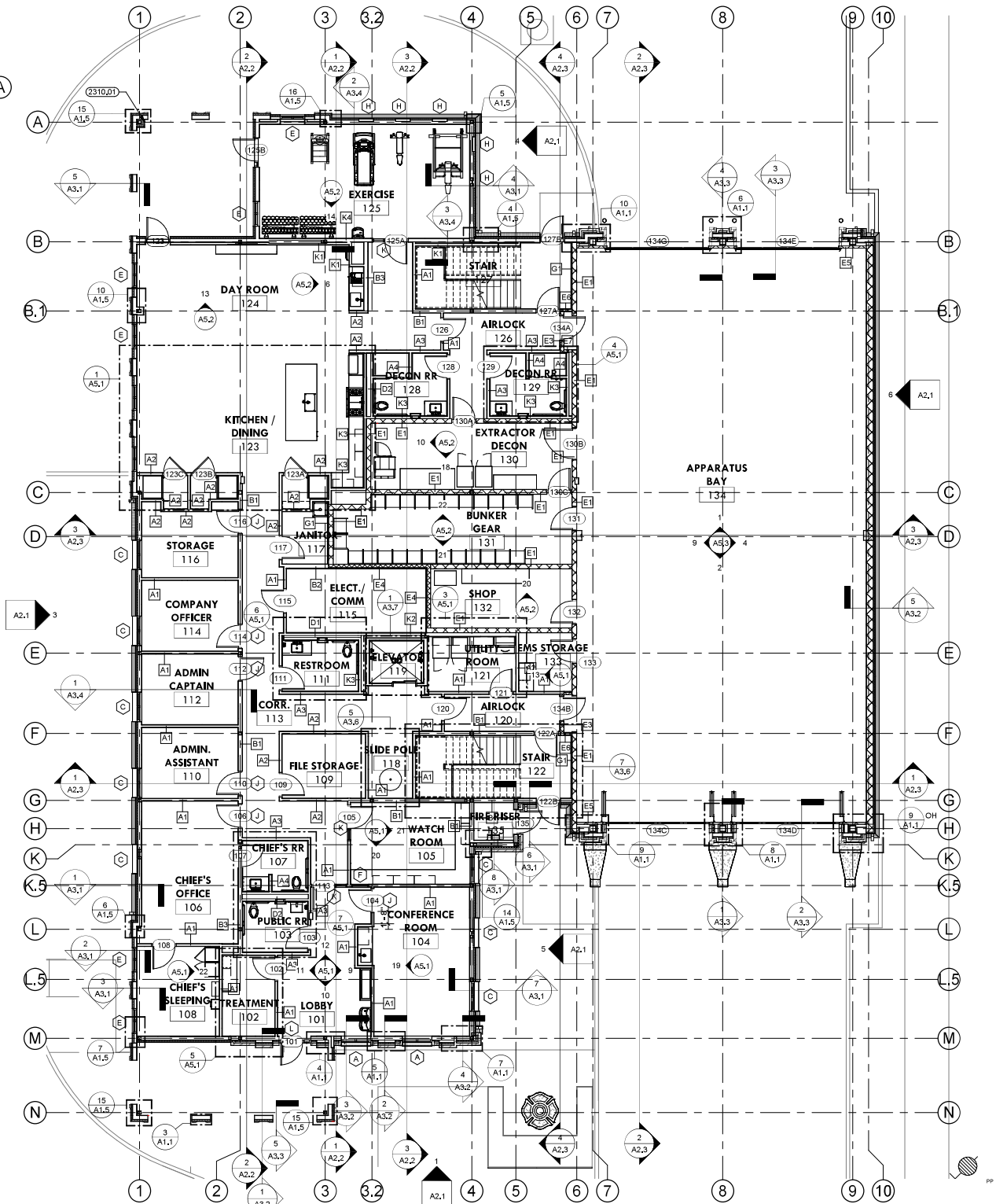
7 PLAN DETAIL
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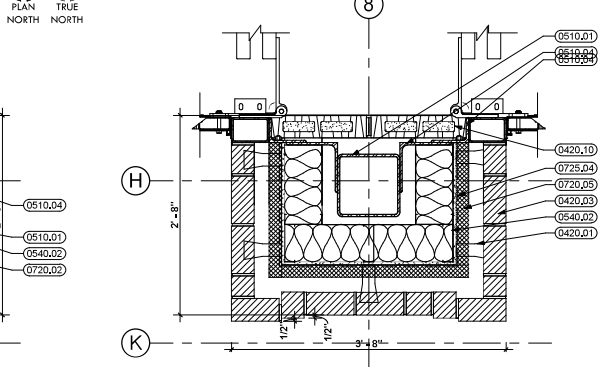
2 SECOND FLOOR PLAN
1/8" = 1'-0"



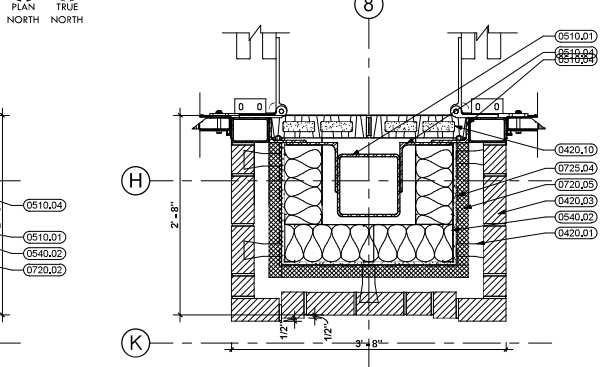
1 FIRST FLOOR PLAN
1/8" = 1'-0"



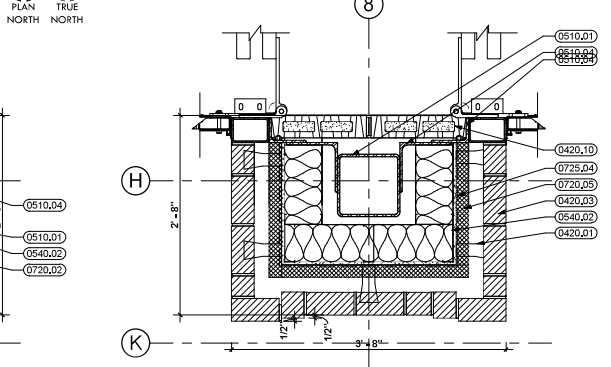
1 FIRST FLOOR PLAN
1/8" = 1'-0"



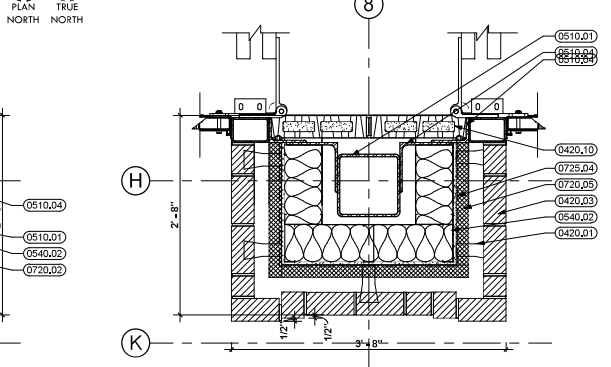
8 PLAN DETAIL
1" = 1'-0"



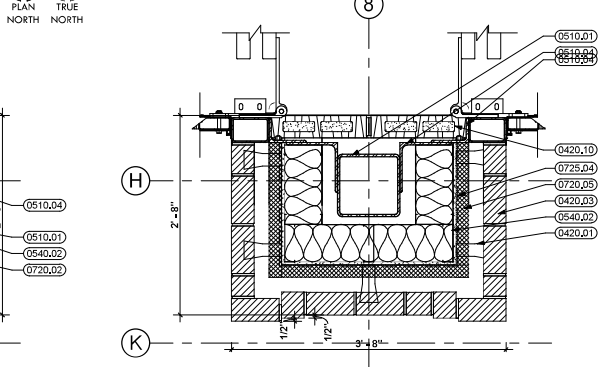
7 PLAN DETAIL
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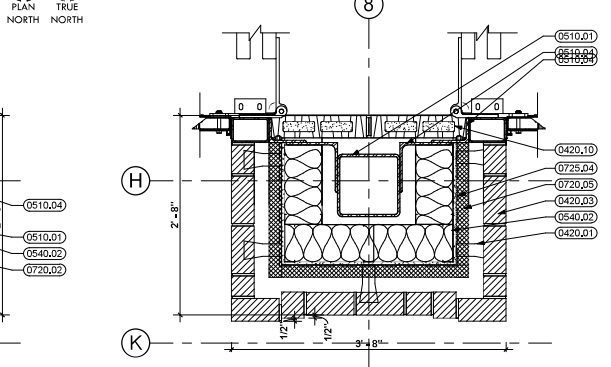
7 PLAN DETAIL
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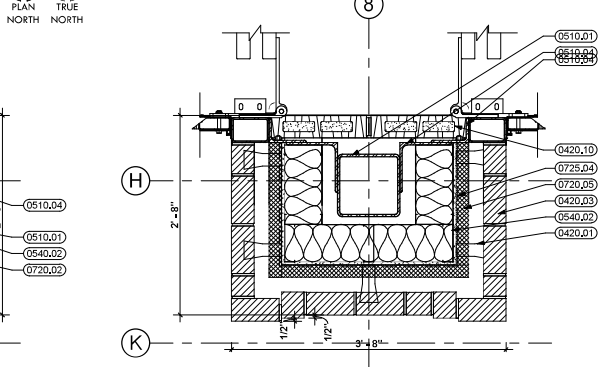
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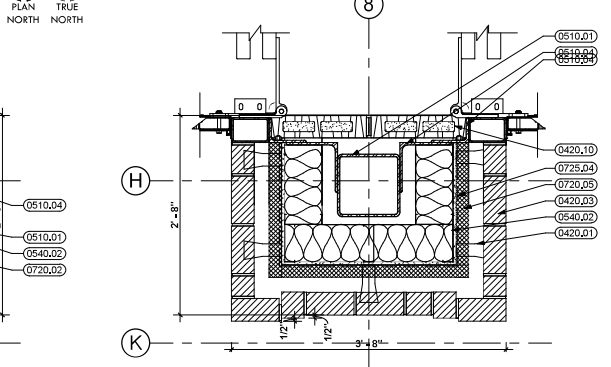
7 PLAN DETAIL
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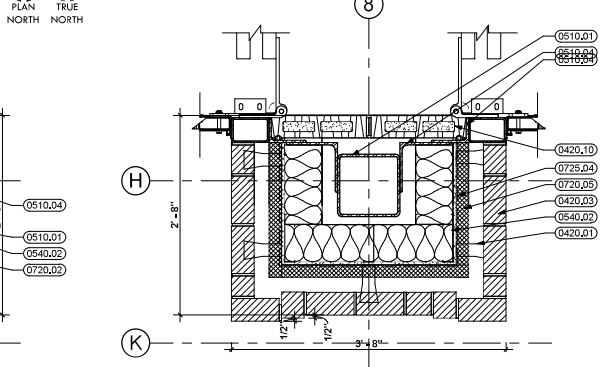
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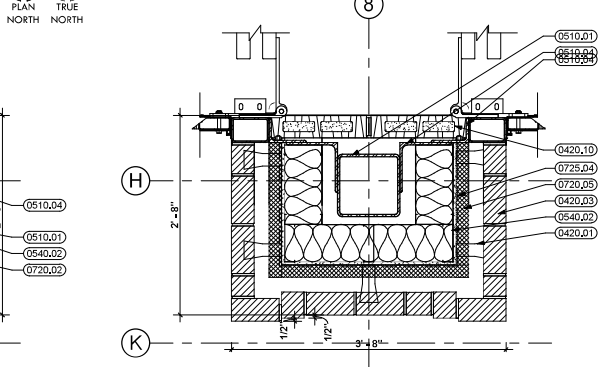
7 PLAN DETAIL
1" = 1'-0"



7 PLAN DETAIL
1" = 1'-0"



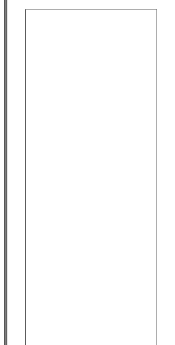
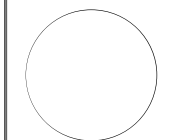
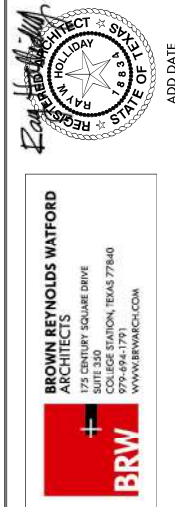
7 PLAN DETAIL
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7 PLAN DETAIL
1" = 1'-0"

KEYNOTES

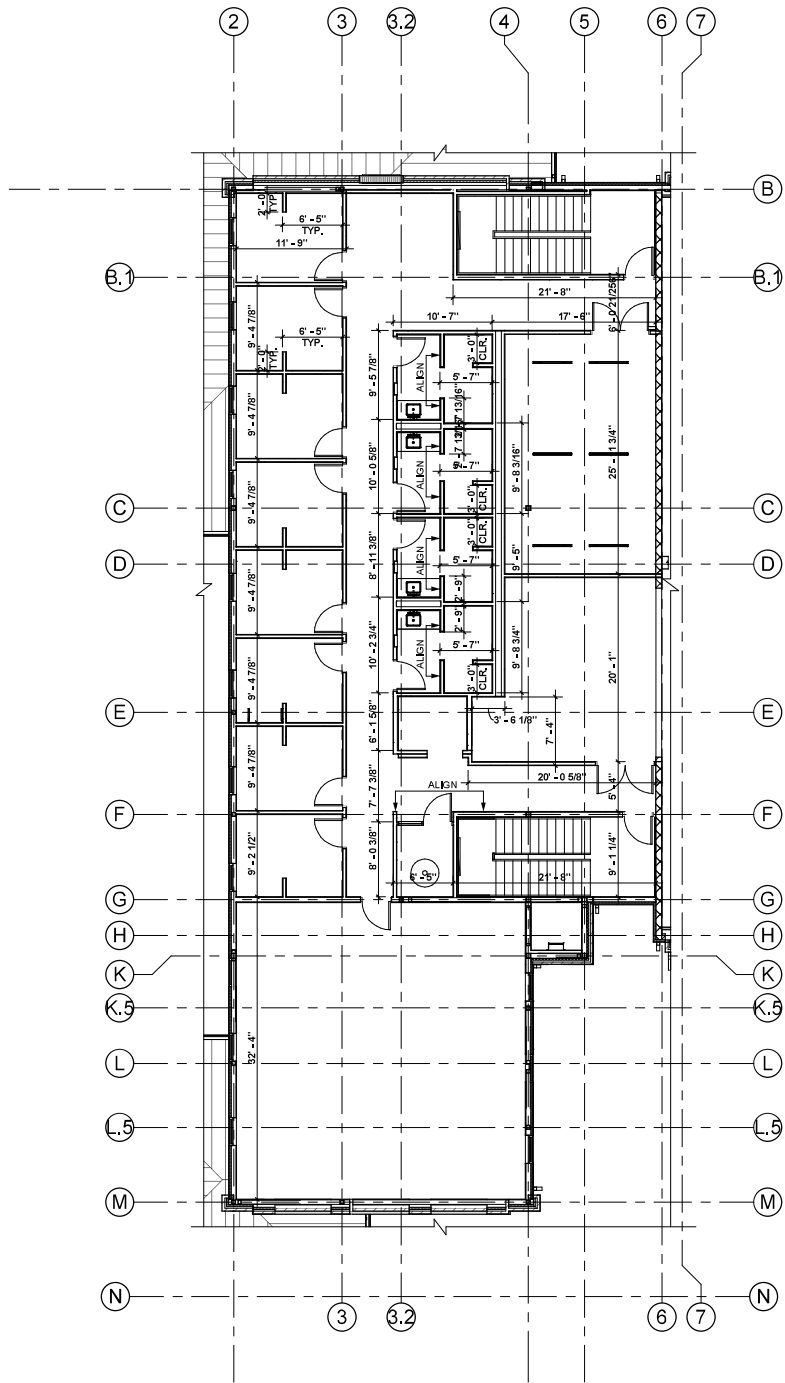
- 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
- 0420.03 4" FACE BRICK
- 0420.10 4" CONCRETE MASONRY UNITS
- 0420.14 8" CONCRETE MASONRY UNITS
- 0510.01 STEEL STRUCTURE (RE: STRUCTURAL)
- 0510.02 STEEL COLUMN (RE: STRUCTURAL)
- 0510.04 STEEL ANGLE (RE: STRUCTURAL)
- 0540.02 8" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
- 0540.07 2" VERTICAL COLD-FORMED METAL FURRING CHANNELS AT 16" O.C. HORIZONTALLY
- 0540.18 3 5/8" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
- 0540.22 J-TRACK
- 0550.19 6" STEEL PIPE COLLARD, FILL WITH CONCRETE (GALVANIZED AT EXTERIOR LOCATIONS)
- 0720.01 3 1/2" BATT INSULATION
- 0720.02 6 1/4" BATT INSULATION
- 0720.05 2" CONTINUOUS INSULATION
- 0725.04 FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
- 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
- 0920.18 1" PORTLAND CEMENT STUCCO ON METAL LATH
- 0920.20 METAL LATH
- 0920.22 STUCCO CASING BEAD
- 0920.27 12" EXTERIOR GYPSUM SHEATHING
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0920.43 FOAM SHAPE COVER ADHESIVE
- 2310.01 GAS PIPING (PAINT WHERE EXPOSED)



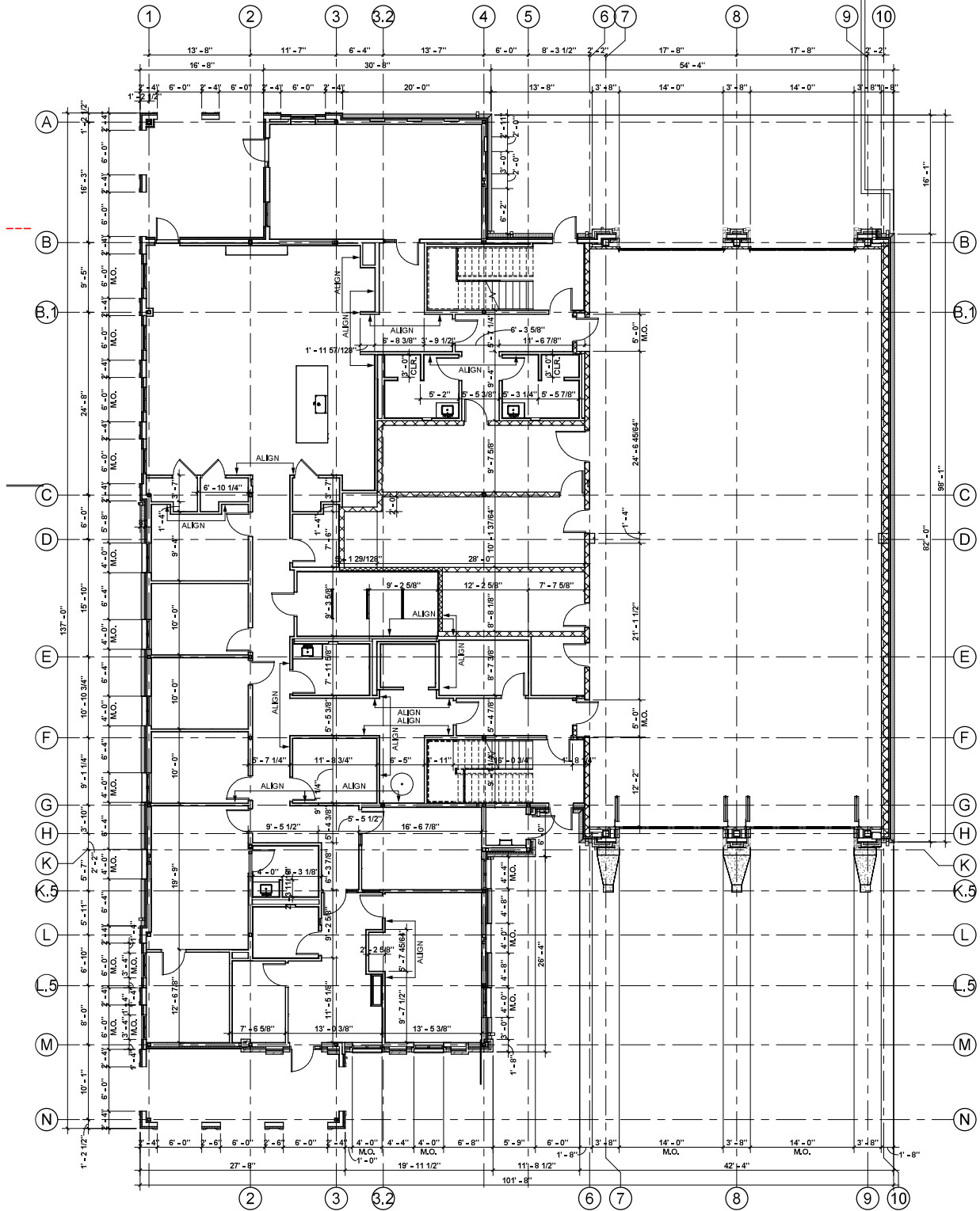
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CHECKED BY JD, RH, MW
BRW PROJECT NUMBER 223136.00



NO.	REVISION	DATE



2 SECOND FLOOR DIMENSION PLAN
1/8" = 1'-0"



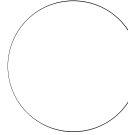
1 FIRST FLOOR DIMENSION PLAN
1/8" = 1'-0"

NO.	REVISION	DATE



**KINGSVILLE
FIRE STATION NO. 3**
2602 S 5TH ST.
KINGSVILLE, TX 78363

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**BROWN REYNOLDS WATFORD
ARCHITECTS**
172 CENTURY SQUARE DRIVE
SUITE 330
HOUSTON, TEXAS 77040
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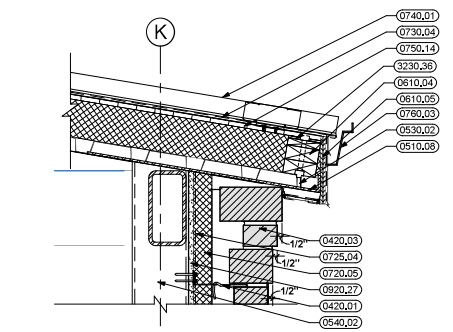
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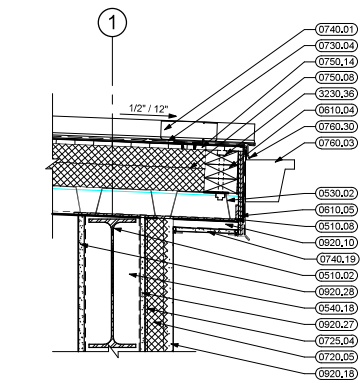
ADD DATE

A1.2
DIMENSION PLAN

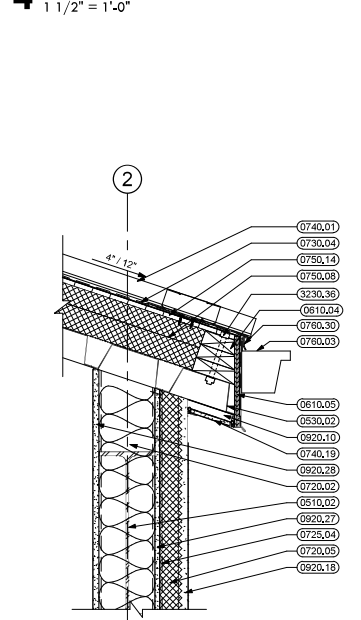
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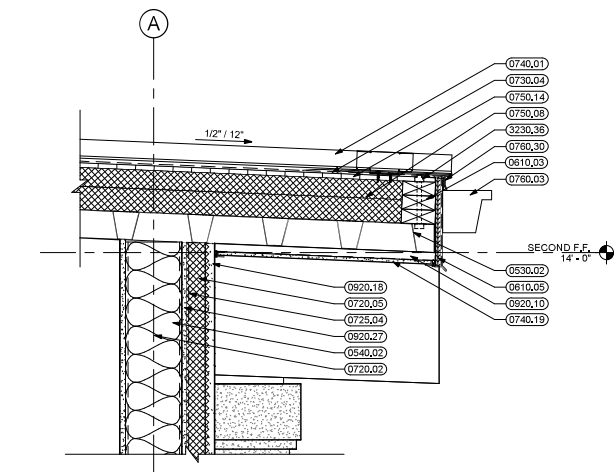
3 ROOF DETAIL
1 1/2" = 1'-0"



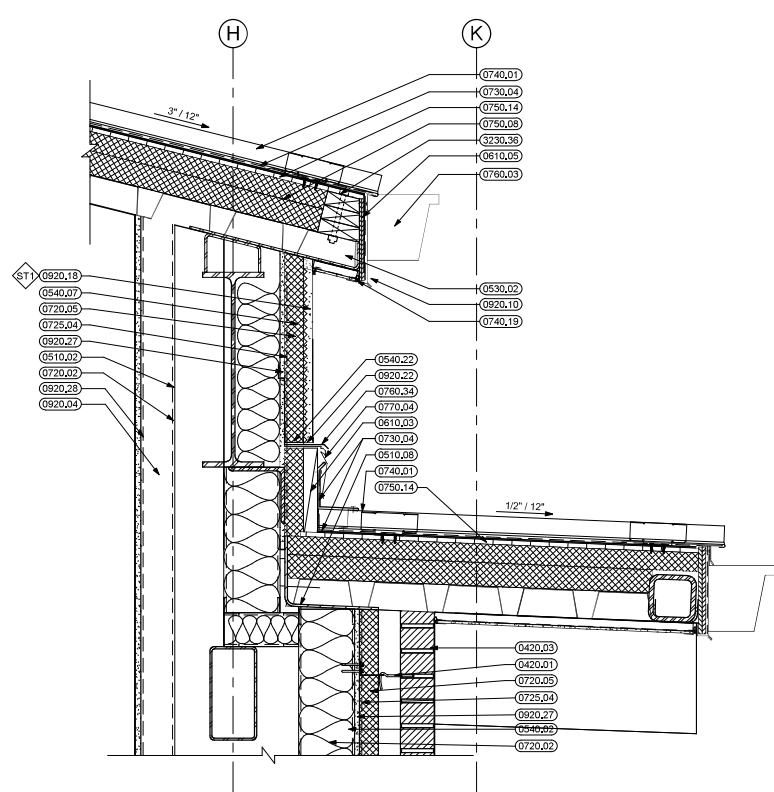
4 ROOF DETAIL
1 1/2" = 1'-0"



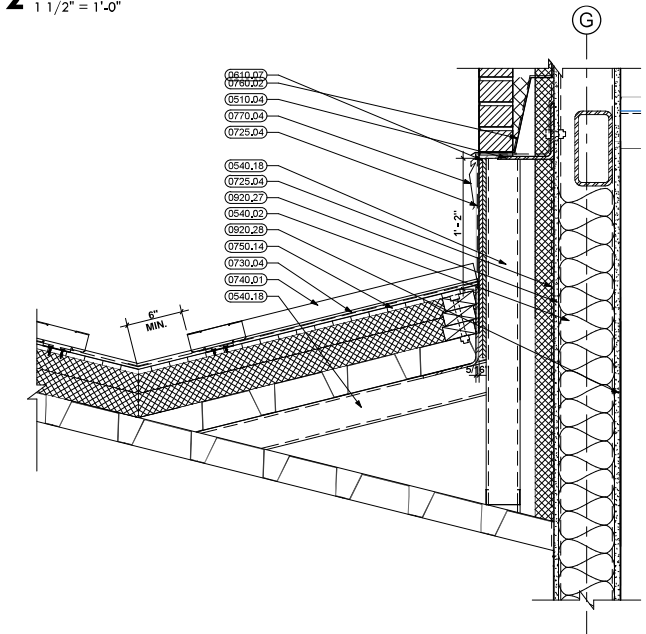
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1 1/2" = 1'-0"



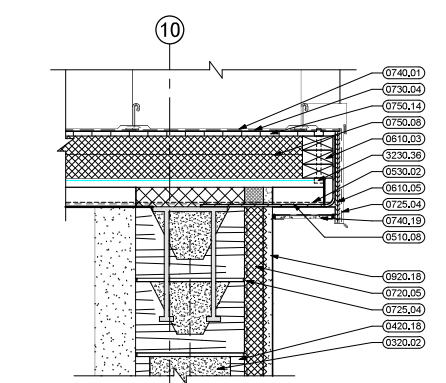
10 ROOF DETAIL
1 1/2" = 1'-0"



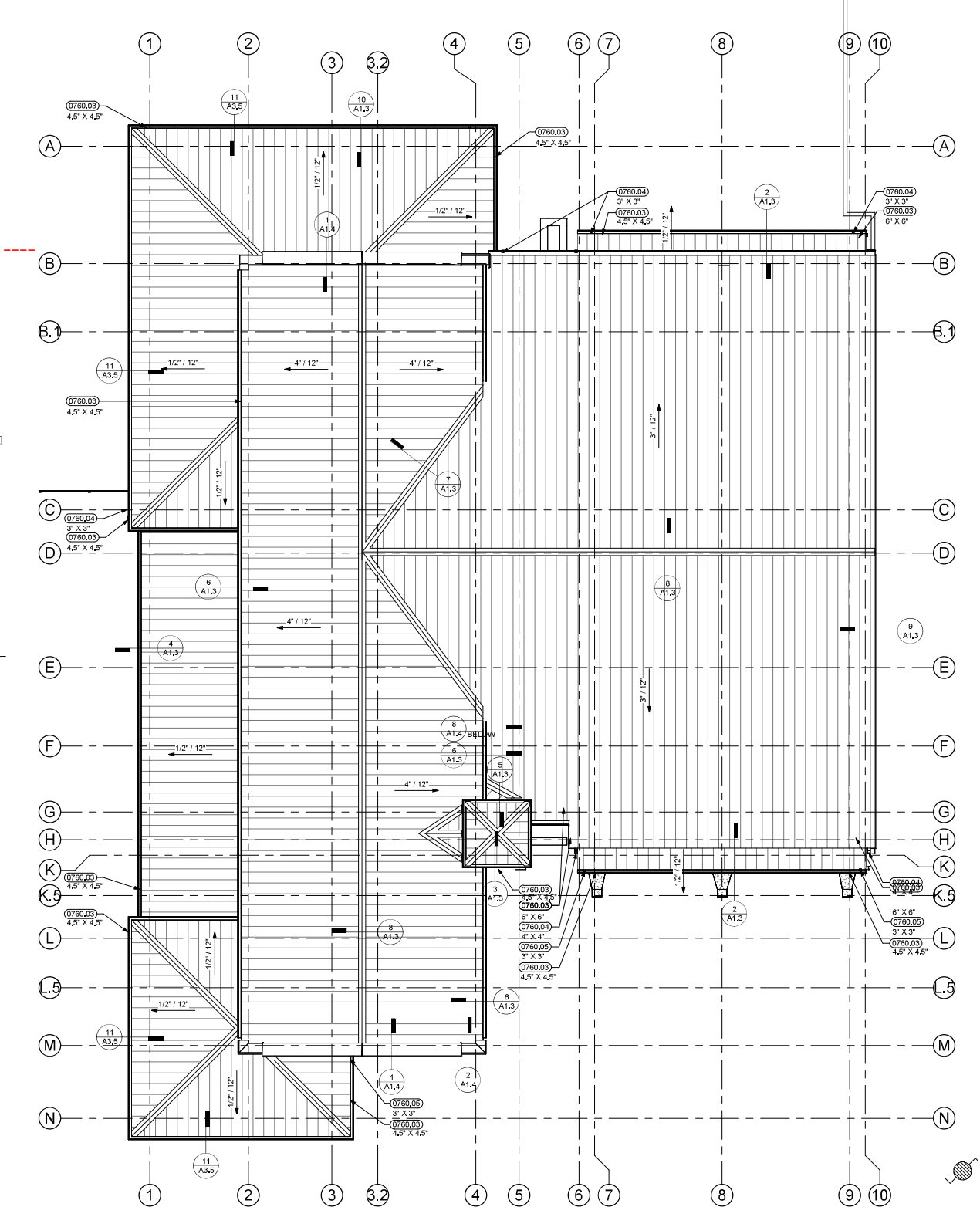
2 ROOF DETAIL
1 1/2" = 1'-0"



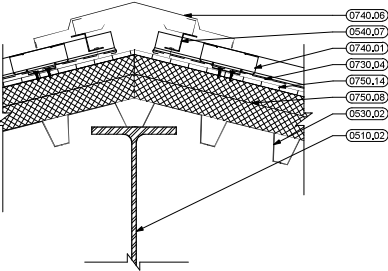
5 ROOF DETAIL
1 1/2" = 1'-0"



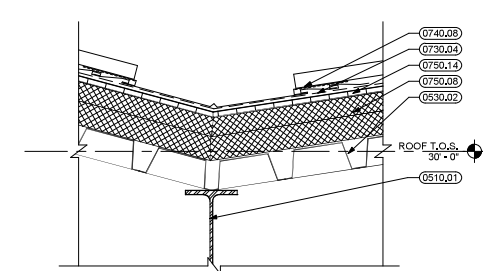
9 ROOF DETAIL
1 1/2" = 1'-0"



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



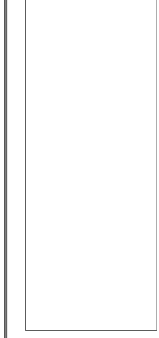
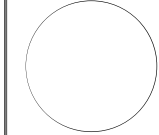
8 ROOF DETAIL
1 1/2" = 1'-0"



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

KEYNOTES

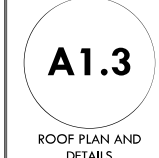
- 0320.02 STEEL REINFORCING
- 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C. E.V.
- 0420.03 4" FACE BRICK
- 0420.18 12" CONCRETE MASONRY UNITS
- 0510.01 STEEL STRUCTURE (RE: STRUCTURAL)
- 0510.02 STEEL COLUMN (RE: STRUCTURAL)
- 0510.04 STEEL ANGLE (RE: STRUCTURAL)
- 0510.06 STEEL BENT PLATE (RE: STRUCTURAL)
- 0530.02 METAL ROOF DECK (RE: STRUCTURAL)
- 0540.02 6" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
- 0540.07 2" VERTICAL COLD-FORMED METAL FURRING CHANNELS AT 16" O.C. HORIZONTALLY
- 0540.18 3 5/8" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
- 0540.22 J-TRACK
- 0610.03 2X WOOD BLOCKING
- 0610.04 2X PRESSURE TREATED WOOD BLOCKING
- 0610.05 1/2" EXTERIOR GRADE PLYWOOD
- 0610.07 3/4" EXTERIOR GRADE PLYWOOD
- 0720.02 6 1/4" BATT INSULATION
- 0720.05 2" CONTINUOUS INSULATION
- 0725.04 FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
- 0730.04 SELF-ADHERING, HIGH-TEMPERATURE ROOFING SHEET UNDERLAYMENT
- 0740.01 PREFINISHED METAL ROOF PANEL SYSTEM
- 0740.06 RIDGE COVER
- 0740.08 VALLEY FLASHING
- 0740.19 FIBER REINFORCED CEMENTITIOUS VENTED SOFFIT PANEL
- 0750.08 TWO (2) LAYERS OF 2.2" RIGID ROOF INSULATION (R-25)
- 0750.14 1/2" ROOF COVER BOARD
- 0760.02 THROUGH-WALL FLASHING (WITH WEEPS AT 24" O.C. AS REQUIRED)
- 0760.03 PREFINISHED METAL GUTTER
- 0760.04 PREFINISHED METAL DOWNSPOUT
- 0760.05 PREFINISHED METAL DOWNSPOUT WITH FABRICATED TRANSITION TO DOWNSPOUT BOOT
- 0760.30 PREFINISHED EAVE TRIM
- 0760.34 PREFORMED PREFINISHED METAL FLASHING WITH ALL SEAMS WELDED WATERTIGHT
- 0770.04 PREFINISHED METAL REGLET WITH SEALANT AND COUNTERFLASHING
- 0920.04 3 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
- 0920.10 7/8" FURRING CHANNELS AT 16" O.C.
- 0920.18 1" PORTLAND CEMENT STUCCO ON METAL LATH
- 0920.22 STUCCO CASING BEAD
- 0920.27 1/2" EXTERIOR GYPSUM SHEATHING
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 3230.36 THROUGH-BOLT



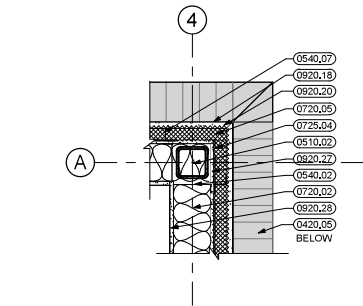
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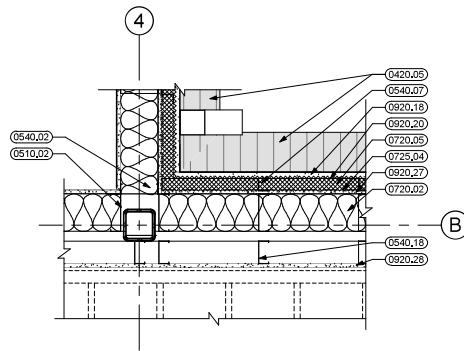
NO.	REVISION	DATE



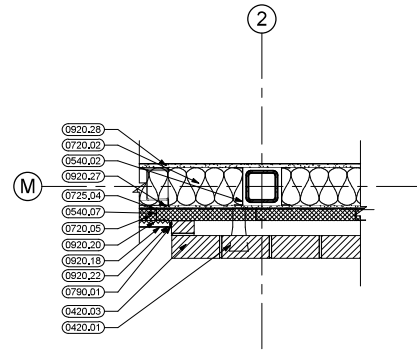
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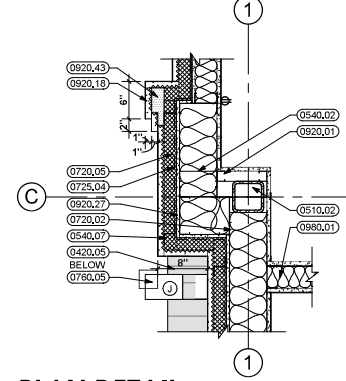
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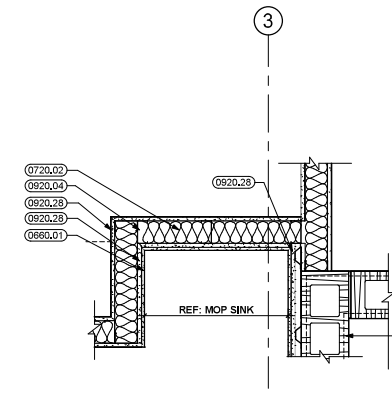
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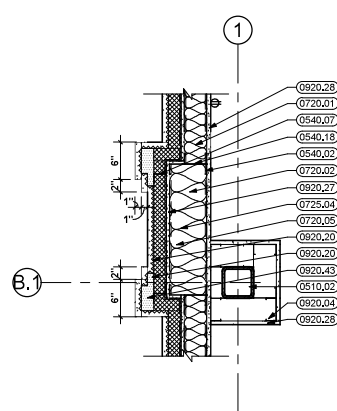
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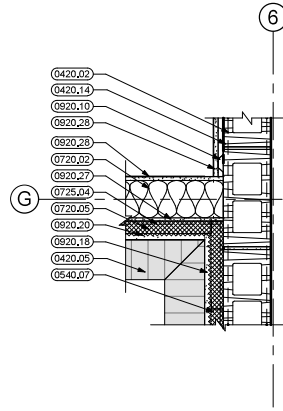
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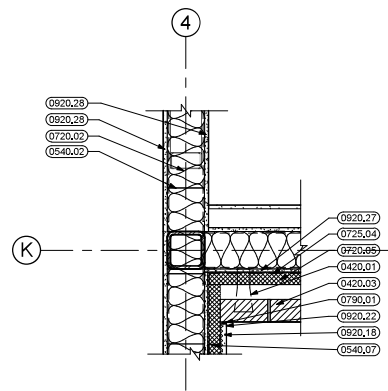
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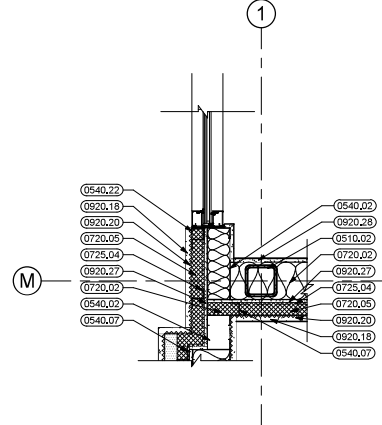
10 PLAN DETAIL
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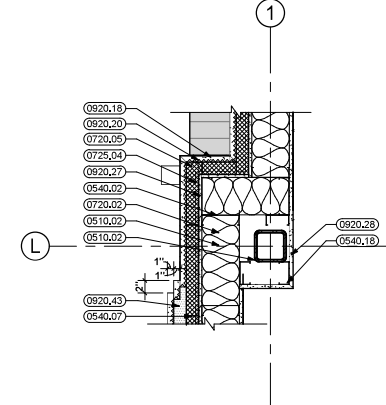
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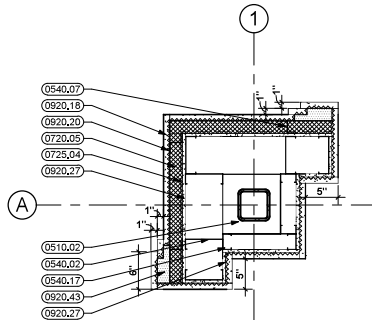
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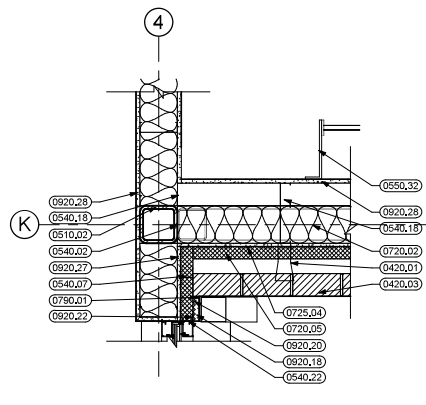
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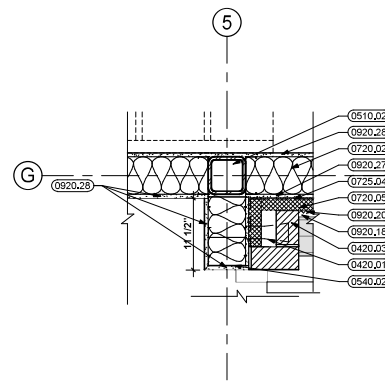
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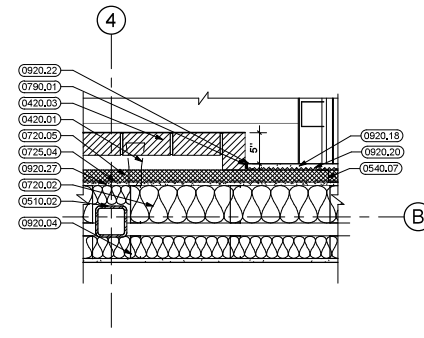
15 PLAN DETAIL
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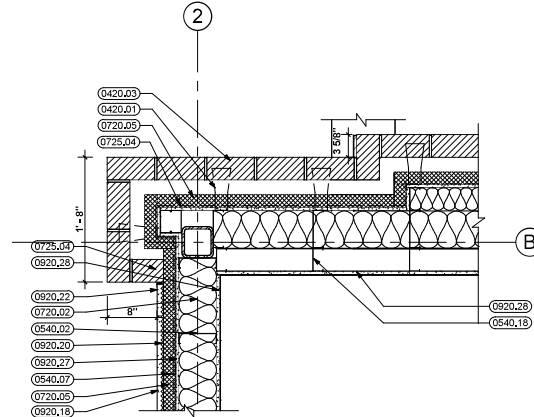
14 PLAN DETAIL
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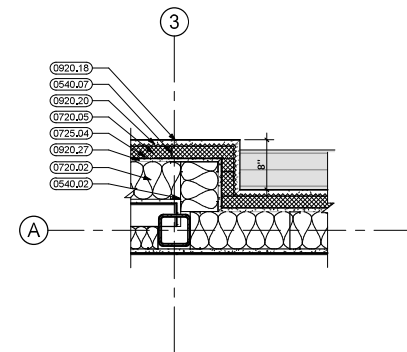
13 PLAN DETAIL
1" = 1'-0"



12 PLAN DETAIL
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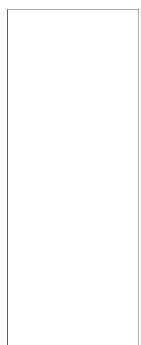
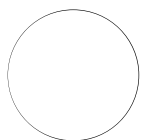
11 PLAN DETAIL
1" = 1'-0"



16 PLAN DETAIL
1" = 1'-0"

KEYNOTES

- 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
- 0420.02 CONCRETE MASONRY UNIT HORIZONTAL REINFORCING
- 0420.03 4" FACE BRICK
- 0420.05 BRICK ROWLOCK COURSE
- 0420.14 8" CONCRETE MASONRY UNITS
- 0510.02 STEEL COLUMN (RE. STRUCTURAL)
- 0540.02 6" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
- 0540.07 2" VERTICAL COLD-FORMED METAL FURRING CHANNELS AT 16" O.C. HORIZONTALLY
- 0540.17 2 1/2" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
- 0540.18 3 5/8" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
- 0540.22 J-TRACK
- 0550.32 STEEL TREAD
- 0660.01 FIBER-REINFORCED PLASTIC PANEL
- 0720.01 3 1/2" BATT INSULATION
- 0720.02 6 1/4" BATT INSULATION
- 0720.05 2" CONTINUOUS INSULATION
- 0725.04 FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
- 0760.05 PREFINISHED METAL DOWNSPOUT WITH FABRICATED TRANSITION TO DOWNSPOUT BOOT
- 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
- 0920.01 1 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
- 0920.04 3 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
- 0920.10 7/8" FURRING CHANNELS AT 16" O.C.
- 0920.18 1" PORTLAND CEMENT STUCCO ON METAL LATH
- 0920.20 METAL LATH
- 0920.22 STUCCO CASING BEAD
- 0920.27 1/2" EXTERIOR GYPSUM SHEATHING
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0920.43 FOAM SHAPE COVER ADHESIVE
- 0980.01 3 1/2" FIBERGLASS SOUND ATTENUATION BATT INSULATION



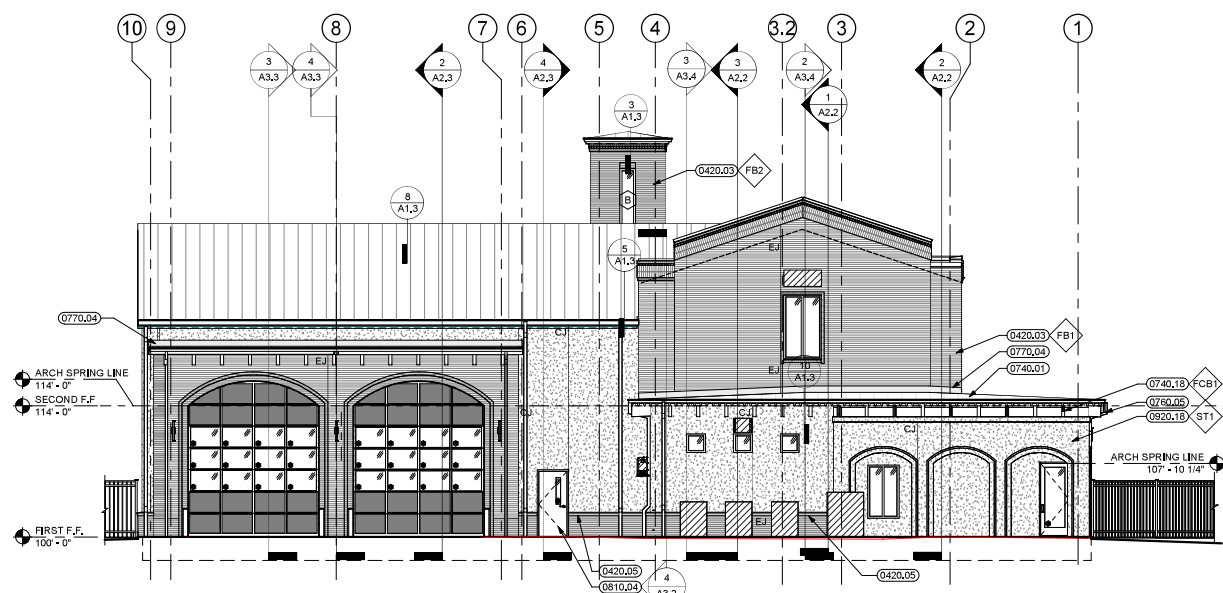
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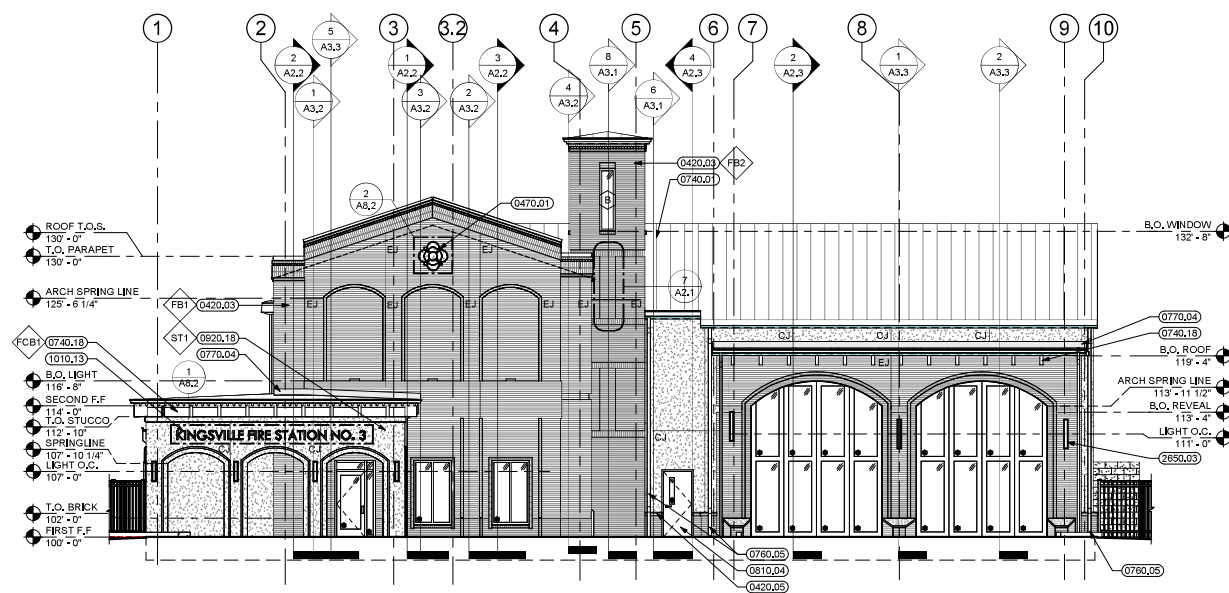
NO.	REVISION	DATE



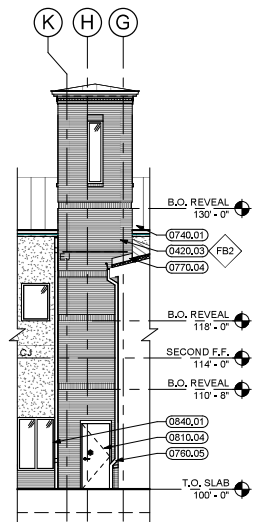
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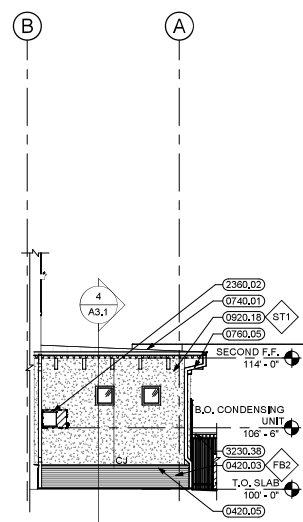
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1/8" = 1'-0"



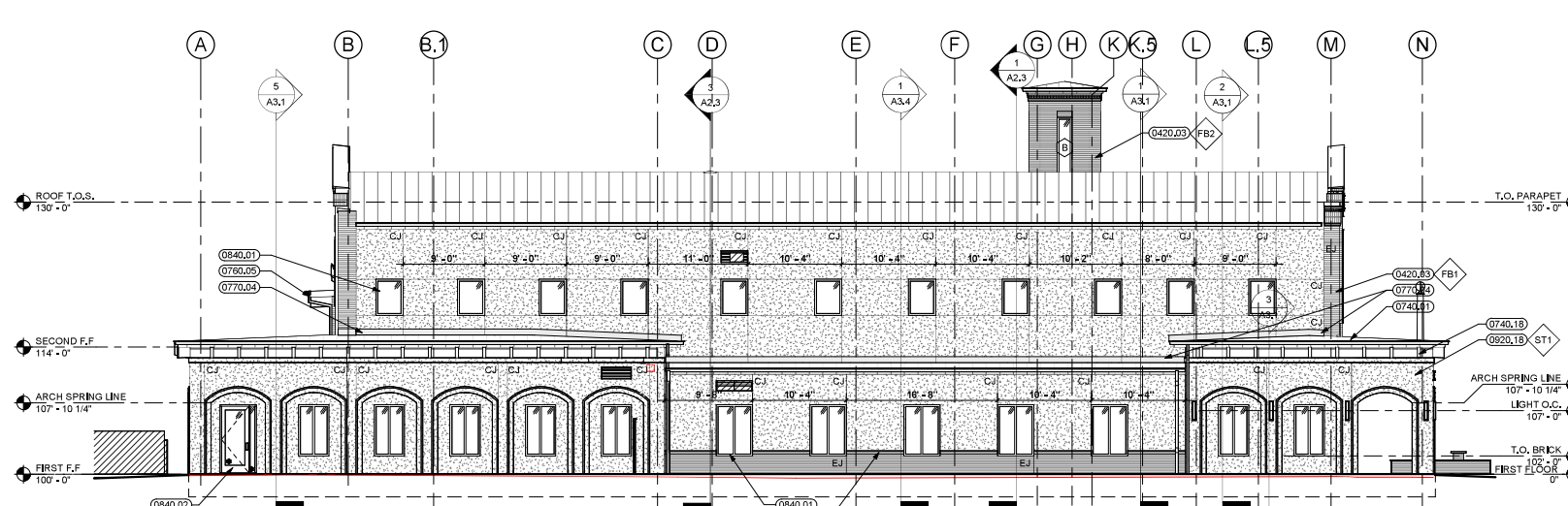
1 EXTERIOR ELEVATION (SOUTH)
1/8" = 1'-0"



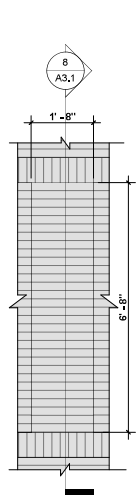
5 EXTERIOR ELEVATION
1/8" = 1'-0"



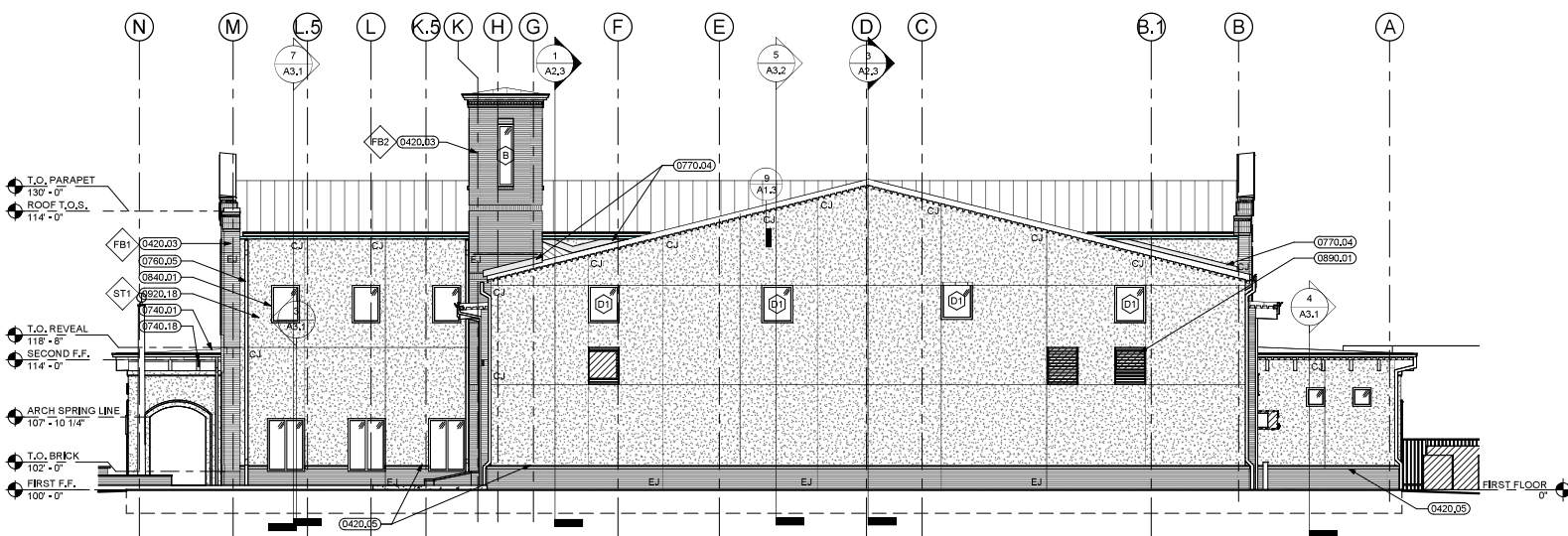
4 EXTERIOR ELEVATION
1/8" = 1'-0"



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



7 BRICK OFFSET ELEVATION
1/2" = 1'-0"



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

KEYNOTES

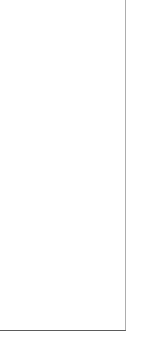
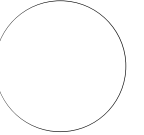
- 0420.03 4" FACE BRICK
- 0420.05 BRICK ROWLOCK COURSE
- 0470.01 CAST STONE
- 0740.01 PREFINISHED METAL ROOF PANEL SYSTEM
- 0740.18 FIBER REINFORCED CEMENTITIOUS WALL PANEL
- 0760.05 PREFINISHED METAL DOWNSPOUT WITH FABRICATED TRANSITION TO DOWNSPOUT BOOT
- 0770.04 PREFINISHED METAL REGLET WITH SEALANT AND COUNTERFLASHING
- 0810.04 HOLLOW METAL DOOR AND FRAME
- 0840.01 ALUMINUM STOREFRONT
- 0840.02 ALUMINUM STOREFRONT DOOR
- 0890.01 PREFINISHED FIXED ALUMINUM LOUVER (WITH BRD SCREEN)
- 0920.18 1" PORTLAND CEMENT STUCCO ON METAL LATH
- 1010.13 LED BACKLIT SIGNAGE
- 2360.02 HVAC CONDENSING UNIT
- 2650.03 SURFACE MOUNTED LIGHT FIXTURE
- 3230.38 DECORATIVE METAL FENCE

LEGEND

	ST1: STUCCO
	FB1: FACE BRICK 1 ACME BRICK COLOR: GLACIER WHITE
	FB2: FACE BRICK 2 ACME BRICK COLOR: QUORUM
	BB: BURNISHED BLOCK BB1: BURNISHED BLOCK AT GENERATOR COLOR:
	FCB: FIBER CEMENT SIDING FCB1: WOODSTONE FIBER CEMENT SIDING COLOR: WINCHESTER BROWN
	PREFINISHED METAL REGLET WITH SEALANT AND COUNTERFLASHING



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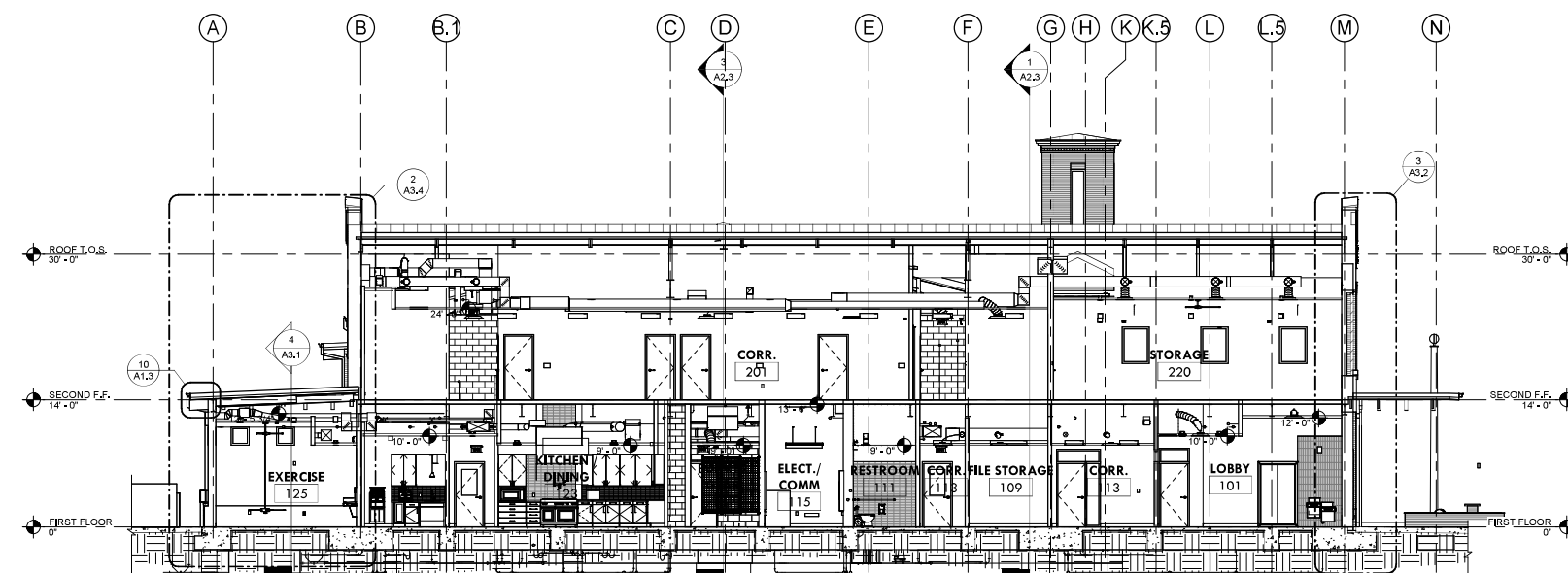
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CHECKED BY: JD, RH, MW
BRW PROJECT NUMBER: 223136.00



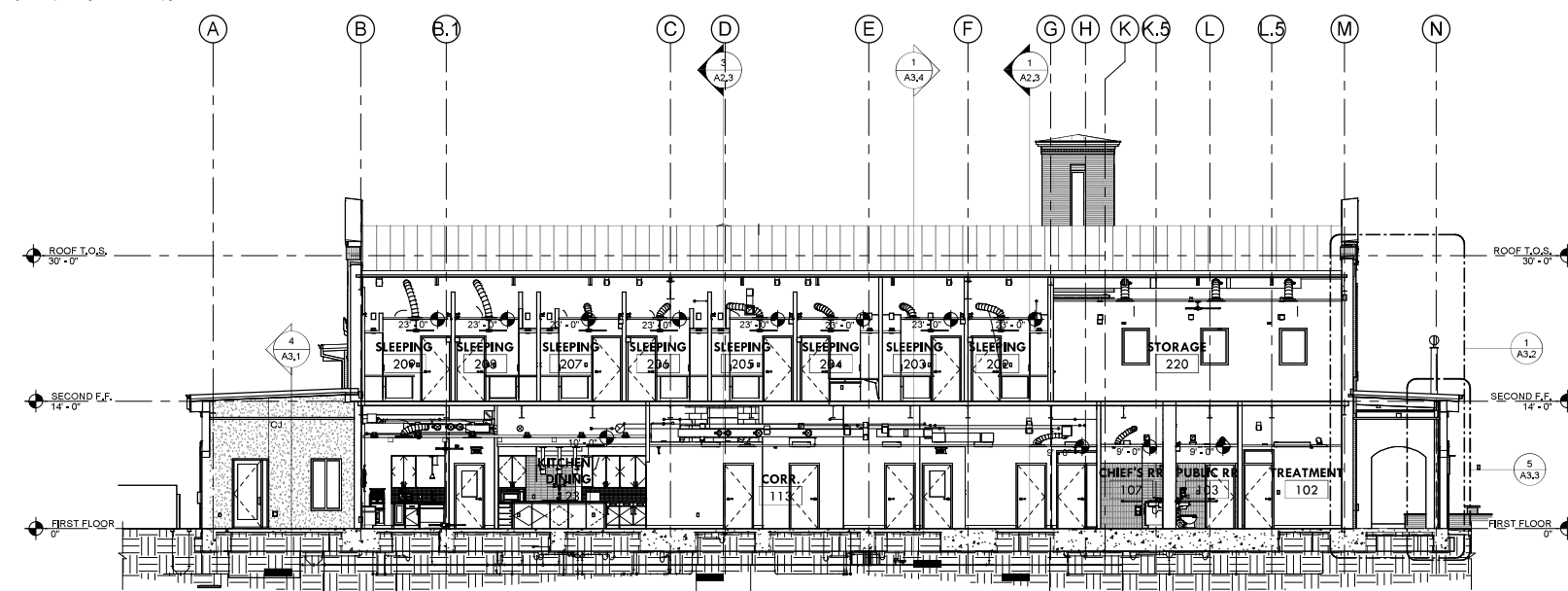
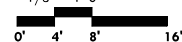
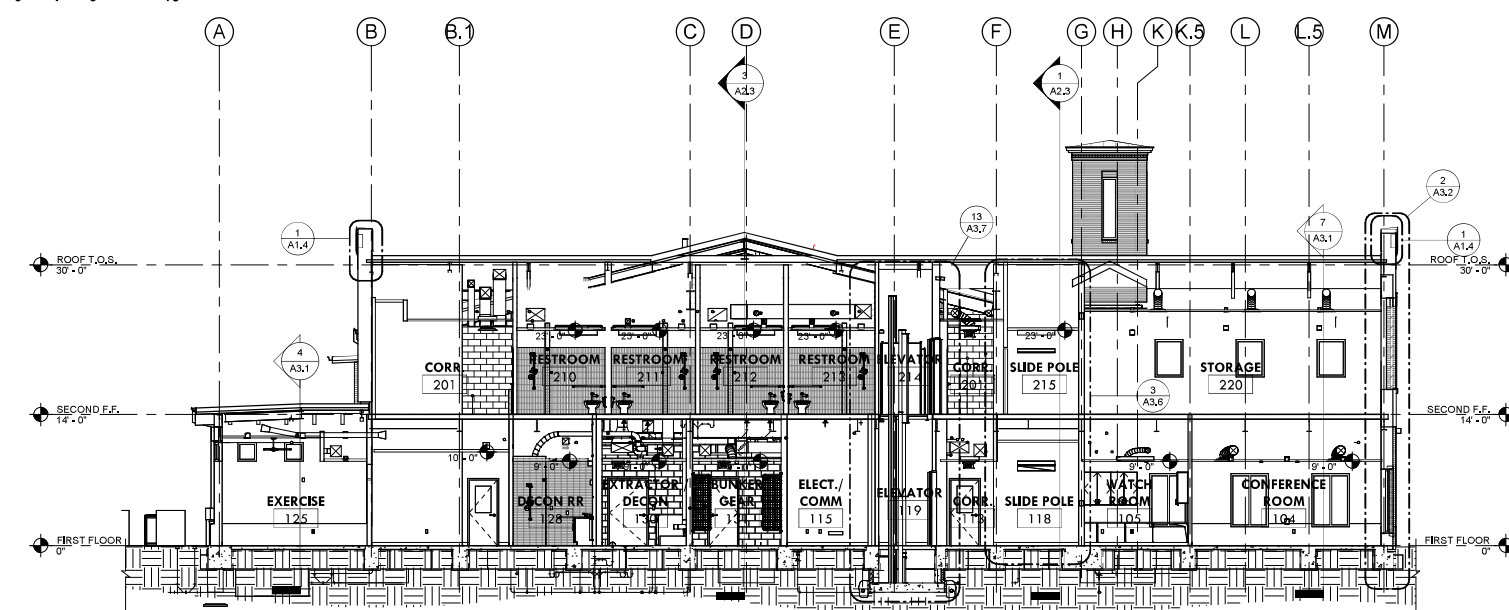
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A2.1
EXTERIOR ELEVATIONS

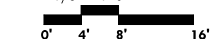
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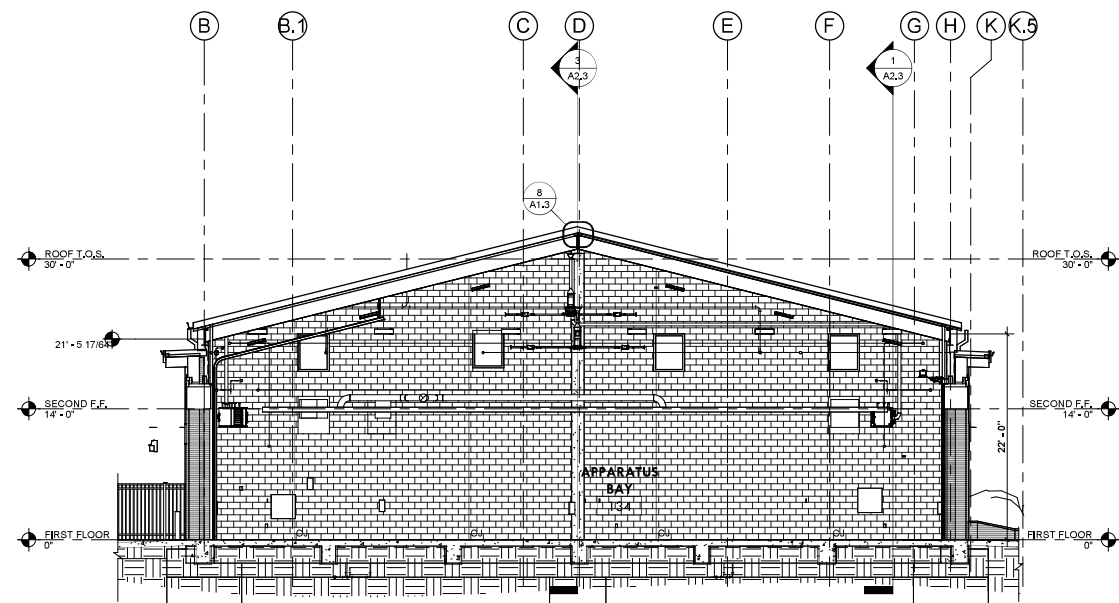


1 1/8" = 1'-0"


$$\underline{L \quad 1/8" = 1'-0"}$$


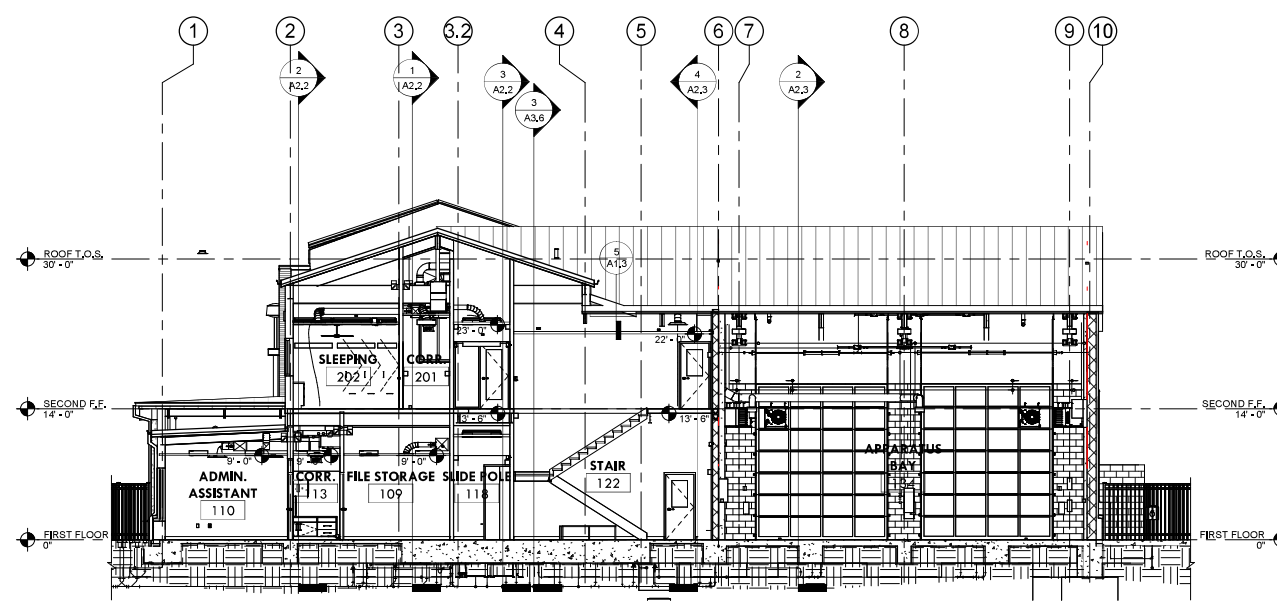
3 $\frac{1}{8}'' = 1'-0''$





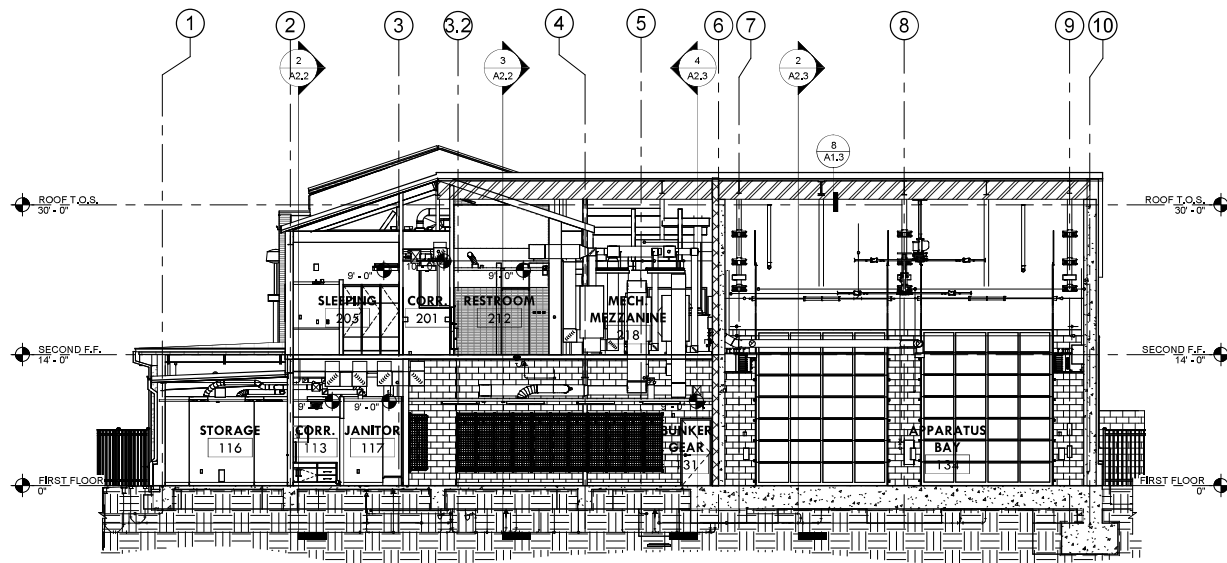
2 BUILDING SECTION

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



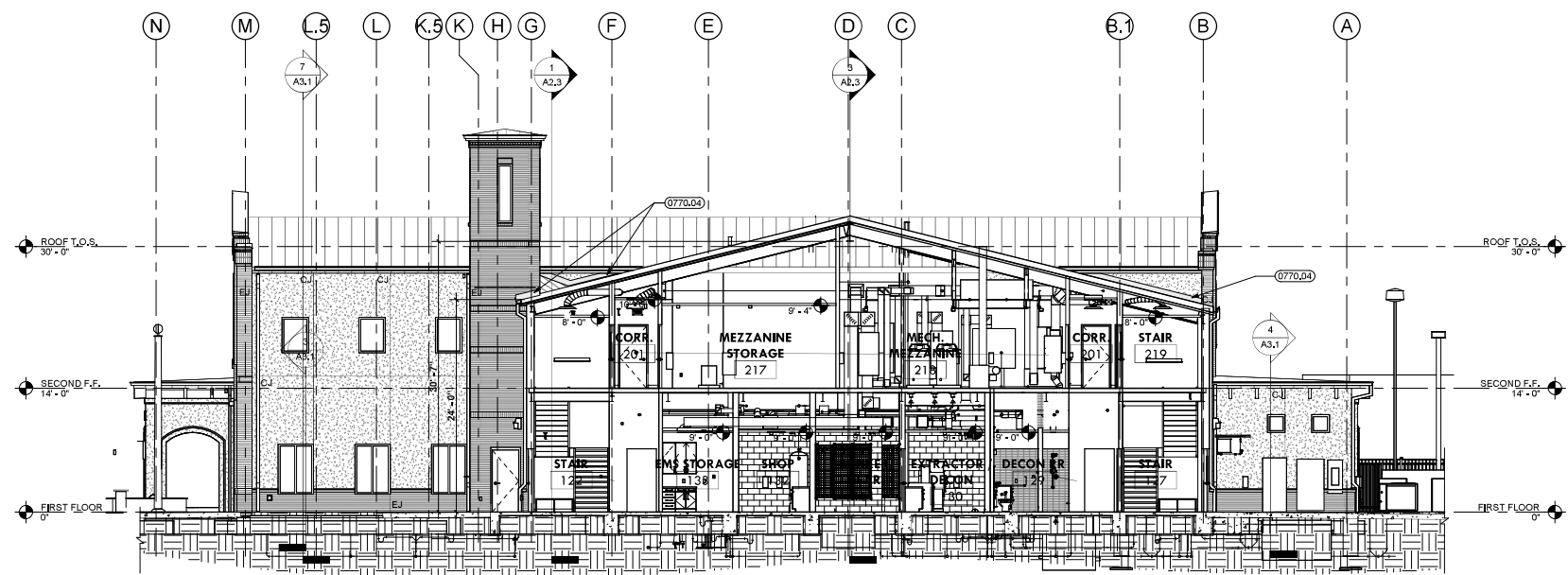
1 BUILDING SECTION

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



3 BUILDING SECTION

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



4 BUILDING SECTION

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



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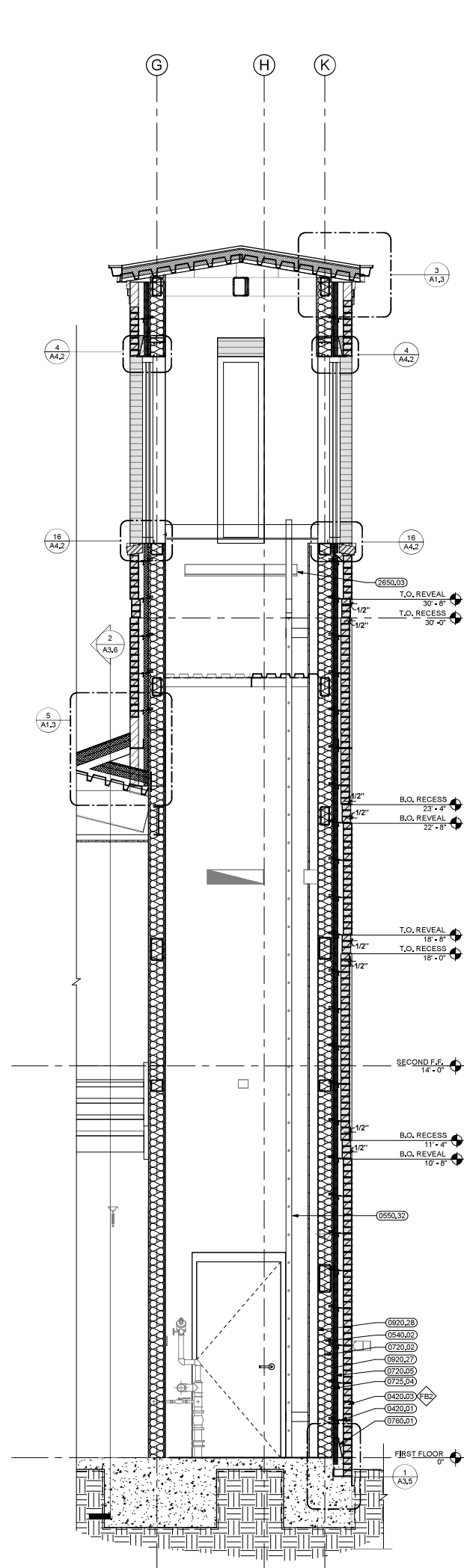


NO.	REVISION	DATE

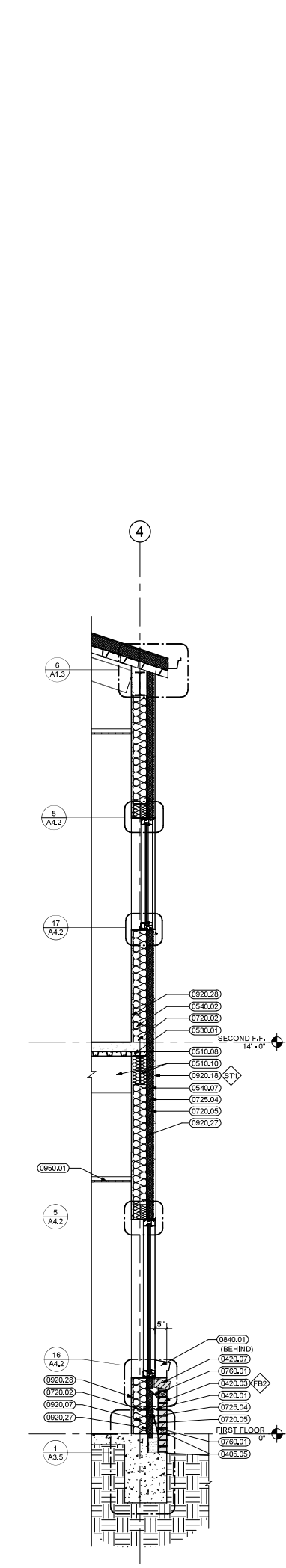
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BUILDING SECTIONS

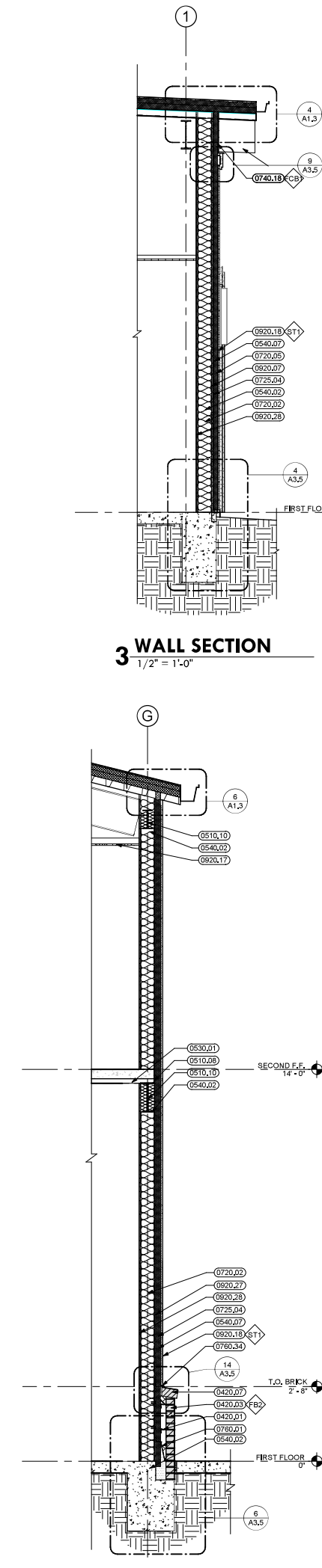
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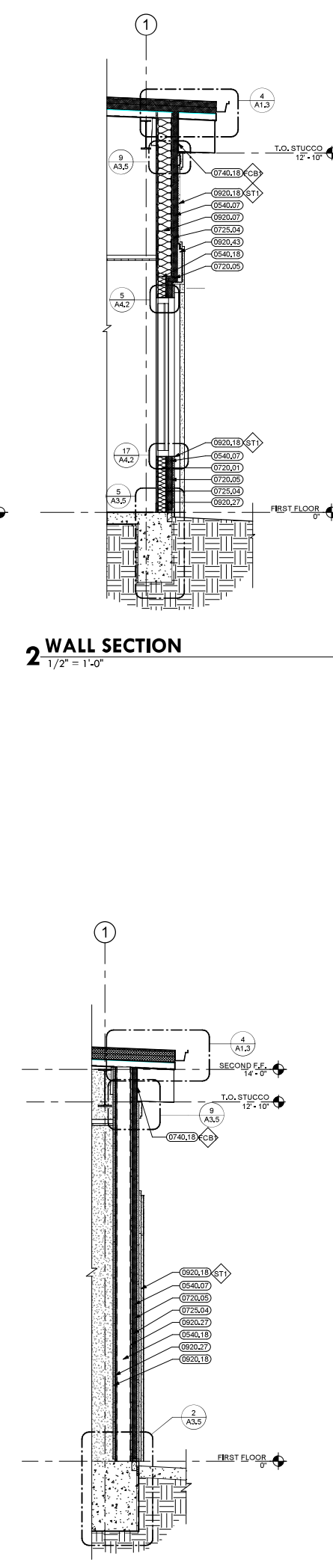
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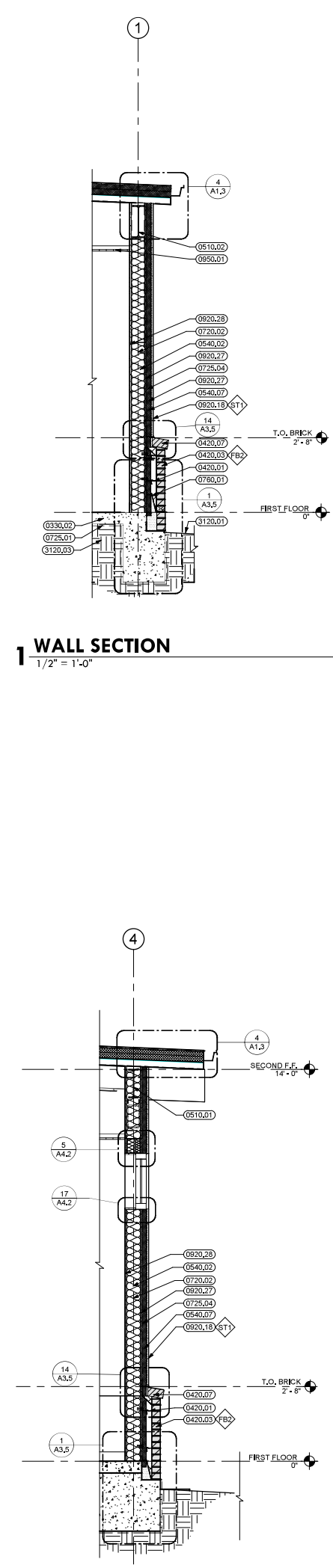
7 WALL SECTION
1/2" = 1'-0"



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



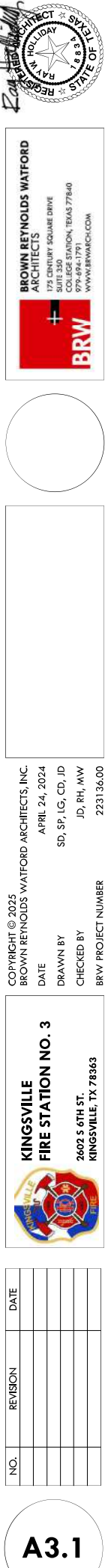
5 WALL SECTION
1/2" = 1'-0"



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



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



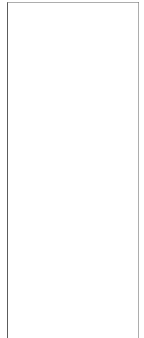
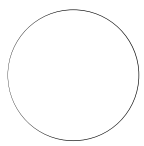
2 WALL SECTION
1/2" = 1'-0"



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

KEYNOTES

- 0330.02 CONCRETE SLAB
- 0405.05 MASONRY VENEER WEEP / VENT
- 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.
- 0420.03 4" FACE BRICK
- 0420.07 SLOPED ROWLOCK SILL
- 0510.01 STEEL STRUCTURE (RE: STRUCTURAL)
- 0510.02 STEEL COLUMN (RE: STRUCTURAL)
- 0510.06 STEEL BENT PLATE (RE: STRUCTURAL)
- 0510.10 STEEL BEAM (RE: STRUCTURAL)
- 0530.01 METAL FLOOR DECK (RE: STRUCTURAL)
- 0540.02 6" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
- 0540.07 2" VERTICAL COLD-FORMED METAL FURRING CHANNELS AT 16" O.C. HORIZONTALLY
- 0540.18 3 5/8" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
- 0550.32 STEEL TREAD
- 0720.01 3 1/2" BATT INSULATION
- 0720.02 6 1/4" BATT INSULATION
- 0720.05 2" CONTINUOUS INSULATION
- 0725.01 UNDERSLAB VAPOR BARRIER SYSTEM
- 0725.04 FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
- 0740.18 FIBER REINFORCED CEMENTITIOUS WALL PANEL
- 0760.01 THROUGH-WALL FLASHING WITH WEEPS AT 2'-0" O.C. AND MORTAR NET
- 0760.34 PREFORMED PREFINISHED METAL FLASHING WITH ALL SEAMS WELDED WATERTIGHT
- 0840.01 ALUMINUM STOREFRONT
- 0920.07 6" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
- 0920.17 5/8" GYPSUM BOARD ON METAL SUSPENSION SYSTEM
- 0920.18 1" PORTLAND CEMENT STUCCO ON METAL LATH
- 0920.27 1/2" EXTERIOR GYPSUM SHEATHING
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0920.43 FOAM SHAPE OVER ADHESIVE
- 0950.01 SUSPENDED ACOUSTICAL LAY-IN TILE CEILING
- 2650.03 SURFACE-MOUNTED LIGHT FIXTURE
- 3120.01 GRADE
- 3120.03 COMPACTED SUBGRADE



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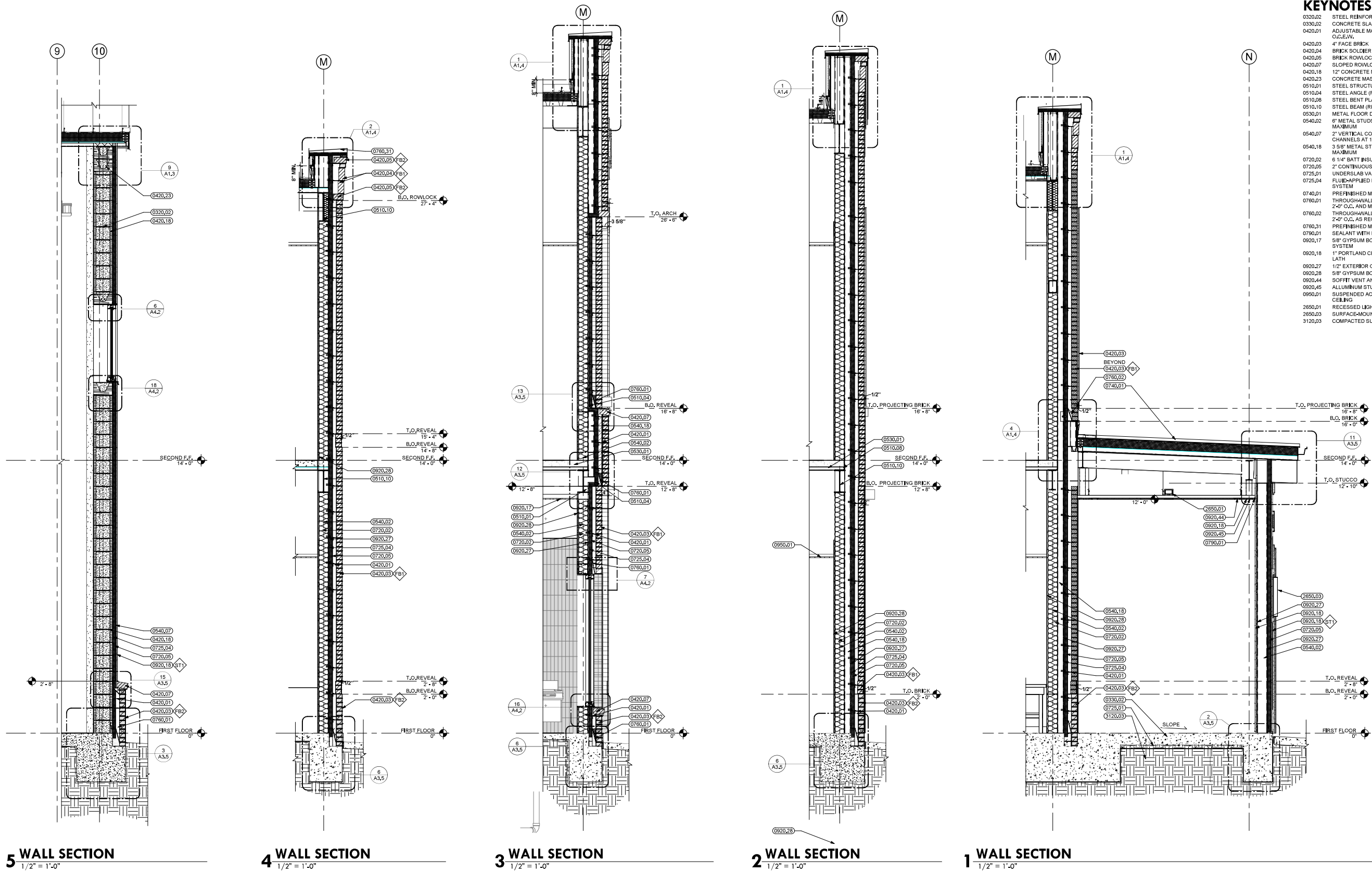


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A3.1

WALL SECTIONS

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- KEYNOTES**
- 0330.02 STEEL REINFORCING
 - 0330.02 CONCRETE SLAB
 - 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.V.
 - 0420.03 4" FACE BRICK
 - 0420.04 BRICK SOLDIER COURSE
 - 0420.05 BRICK ROWLOCK COURSE
 - 0420.07 SLOPED ROWLOCK SILL
 - 0420.18 12" CONCRETE MASONRY UNITS
 - 0420.23 CONCRETE MASONRY BOND BEAM
 - 0510.01 STEEL STRUCTURE (RE: STRUCTURAL)
 - 0510.04 STEEL ANGLE (RE: STRUCTURAL)
 - 0510.08 STEEL BENT PLATE (RE: STRUCTURAL)
 - 0510.10 STEEL BEAM (RE: STRUCTURAL)
 - 0530.01 METAL FLOOR DECK (RE: STRUCTURAL)
 - 0540.02 6" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
 - 0540.07 2" VERTICAL COLD-FORMED METAL FURRING CHANNELS AT 16" O.C. HORIZONTALLY
 - 0540.18 3/8" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
 - 0720.02 6 1/4" BATT INSULATION
 - 0720.05 2" CONTINUOUS INSULATION
 - 0725.01 UNDERSLAB VAPOR BARRIER
 - 0725.04 FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
 - 0740.01 PREFINISHED METAL ROOF PANEL SYSTEM
 - 0760.01 THROUGHWALL FLASHING WITH WEEPS AT 2'-0" O.C. AND MORTAR NET
 - 0760.02 THROUGHWALL FLASHING (WITH WEEPS AT 2'-0" O.C. AS REQUIRED)
 - 0760.31 PREFINISHED METAL COPING SYSTEM
 - 0760.01 SEALANT WITH BACKER ROD AS REQUIRED
 - 0920.17 5/8" GYPSUM BOARD ON METAL SUSPENSION SYSTEM
 - 0920.18 1" PORTLAND CEMENT STUCCO ON METAL LATH
 - 0920.27 1/2" EXTERIOR GYPSUM SHEATHING
 - 0920.28 5/8" GYPSUM BOARD (TYPE X)
 - 0920.44 SOFFIT VENT AND STUCCO EDGE TRIM
 - 0920.45 ALUMINUM STUCCO F REVEAL
 - 0950.01 SUSPENDED ACOUSTICAL LAY-IN TILE CEILING
 - 2650.01 RECESSED LIGHT FIXTURE
 - 2650.03 SURFACE-MOUNTED LIGHT FIXTURE
 - 3120.03 COMPACTED SUBGRADE

ADD DATE

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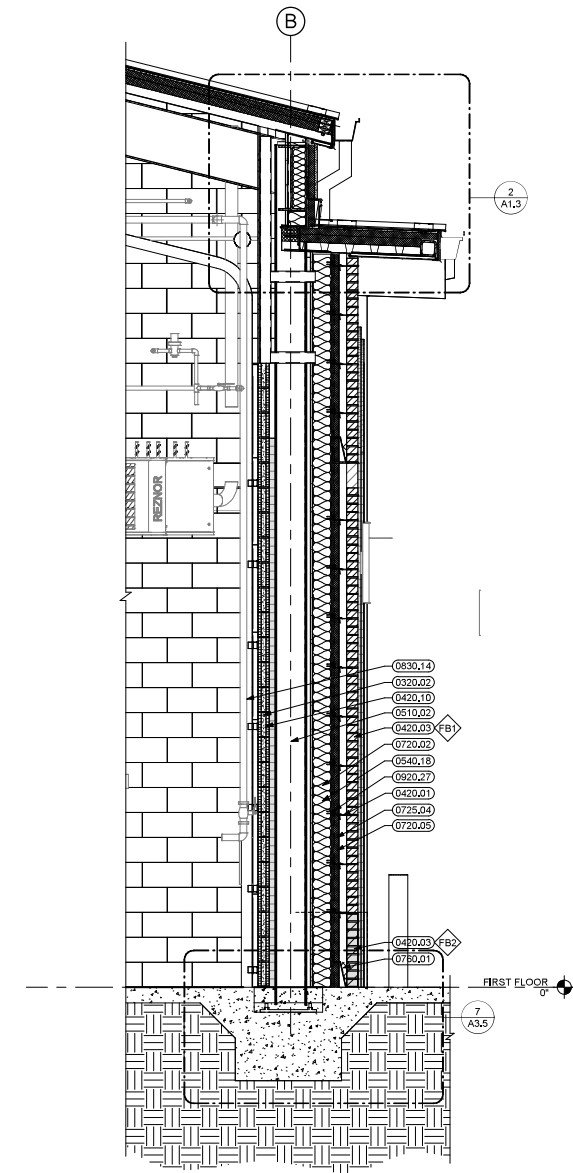
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KINGSVILLE, TX 78363

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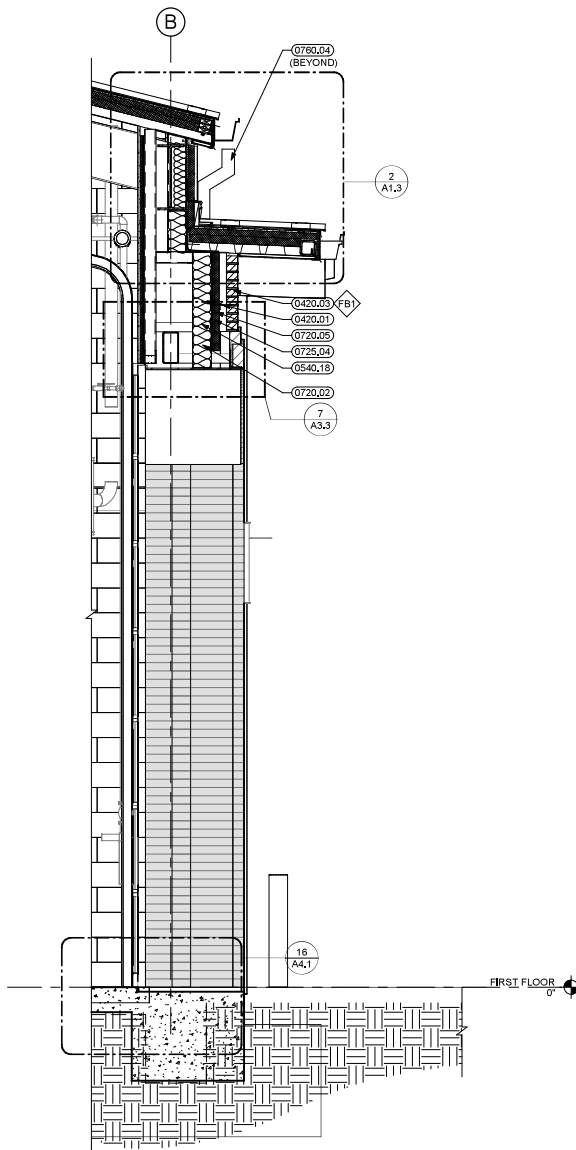
A3.2

WALL SECTIONS

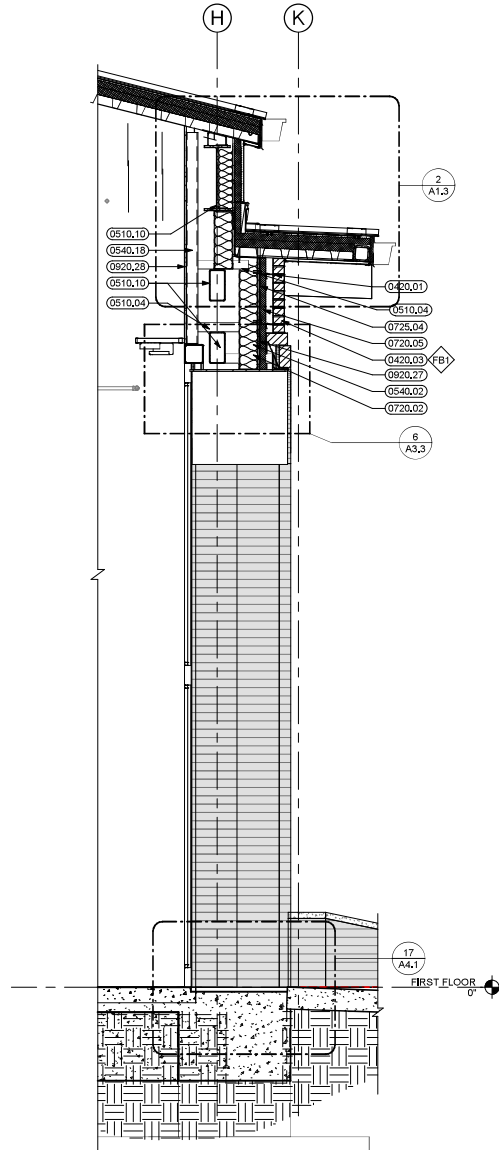
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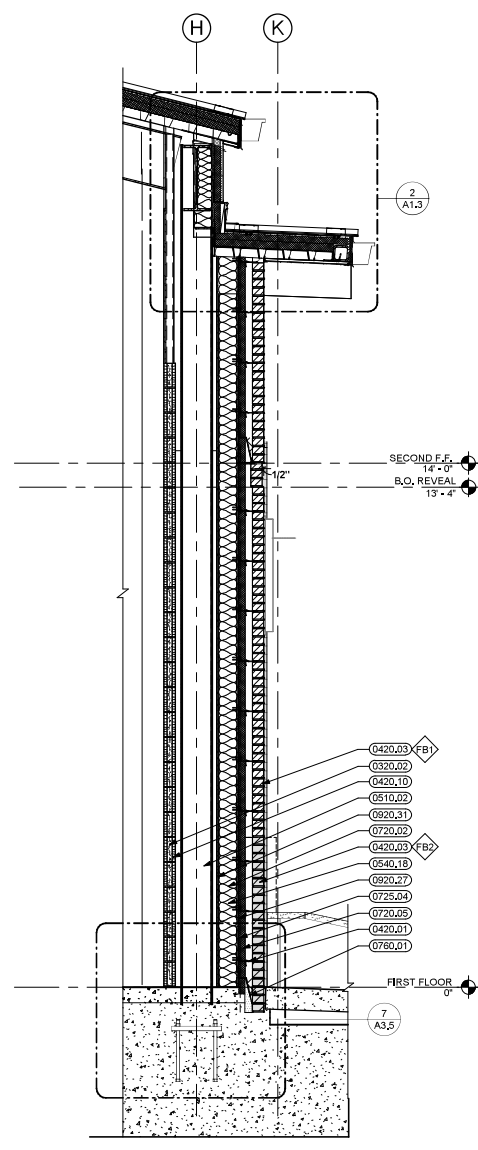
4 WALL SECTION
1/2" = 1'-0"



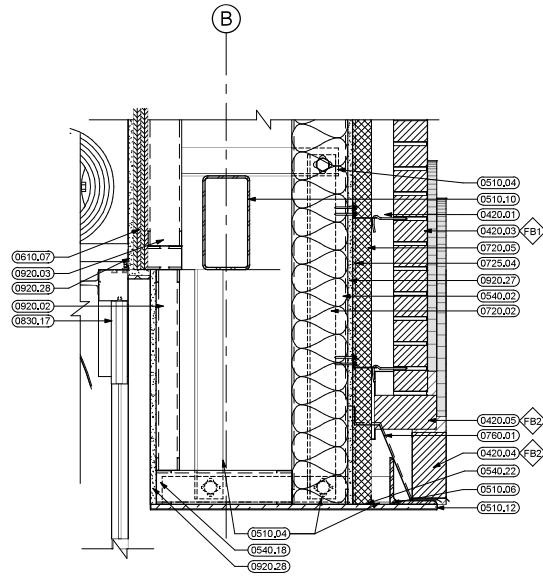
3 WALL SECTION
1/2" = 1'-0"



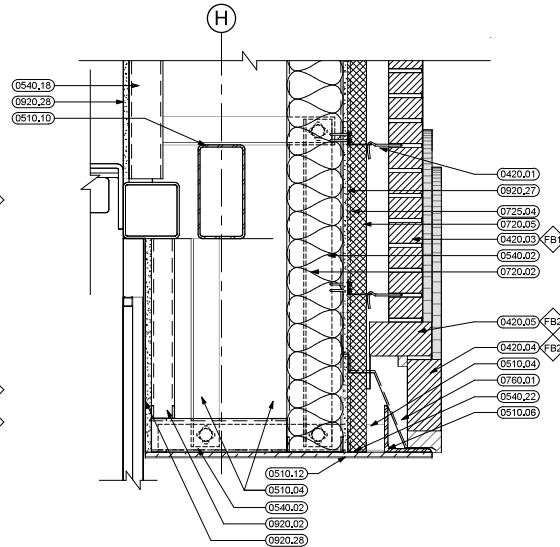
2 WALL SECTION
1/2" = 1'-0"



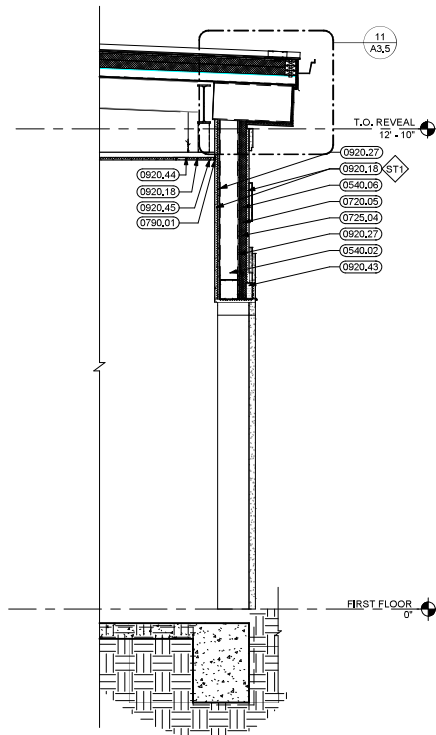
1 WALL SECTION
1/2" = 1'-0"



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




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



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

KEYNOTES


- 0320.02 STEEL REINFORCING
- 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C. E.V.
- 0420.03 4" FACE BRICK
- 0420.04 BRICK SOLDIER COURSE
- 0420.05 BRICK ROWLOCK COURSE
- 0420.10 4" CONCRETE MASONRY UNITS
- 0510.02 STEEL COLUMN (RE: STRUCTURAL)
- 0510.04 STEEL ANGLE (RE: STRUCTURAL)
- 0510.06 STEEL LINTEL (RE: STRUCTURAL)
- 0510.10 STEEL BEAM (RE: STRUCTURAL)
- 0510.12 STEEL PLATE (RE: STRUCTURAL)
- 0540.02 6" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
- 0540.06 2" COLD-FORMED METAL FURRING CHANNEL
- 0540.18 3 5/8" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
- 0540.22 J-TRACK
- 0610.07 3/4" EXTERIOR GRADE PLYWOOD
- 0720.02 6 1/4" BATT INSULATION
- 0720.05 2" CONTINUOUS INSULATION
- 0725.04 FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
- 0760.01 THROUGH-WALL FLASHING WITH WEEPS AT 2'-0" O.C. AND MORTAR NET
- 0760.04 PREFINISHED METAL DOWNSPOUT
- 0760.01 SEALANT WITH BACKER ROD AS REQUIRED
- 0830.14 OVERHEAD COILING DOOR
- 0830.17 UPWARD ACTING SECTIONAL DOOR
- 0820.02 2 1/2" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
- 0820.03 3 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 8" O.C.
- 0820.18 1" PORTLAND CEMENT STUCCO ON METAL LATH
- 0820.27 1/2" EXTERIOR GYPSUM SHEATHING
- 0820.28 5/8" GYPSUM BOARD (TYPE X)
- 0820.31 1/2" GYPSUM BOARD (TYPE X)
- 0820.43 FOAM SHAPE OVER ADHESIVE
- 0820.44 SOFFIT VENT AND STUCCO EDGE TRIM
- 0820.45 ALUMINUM STUCCO F REVEAL



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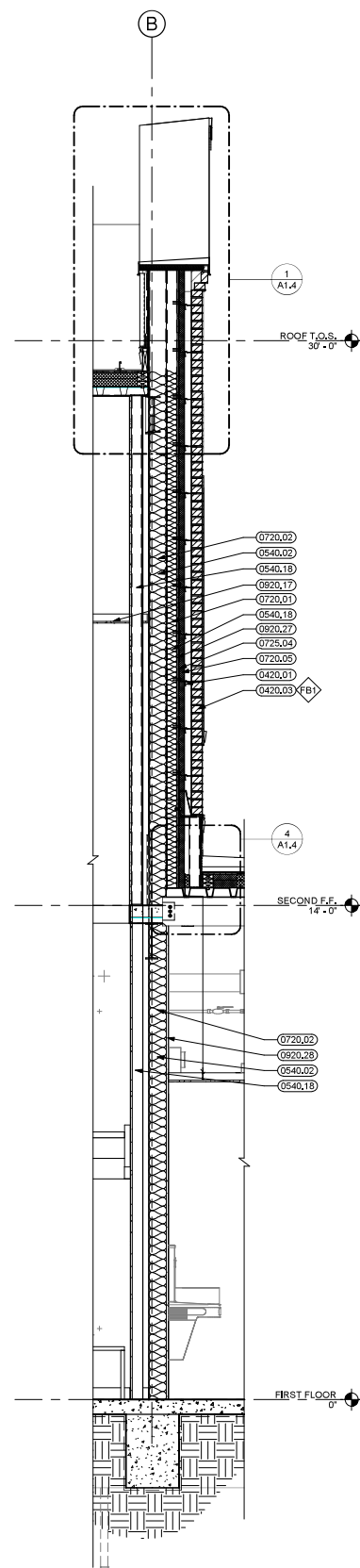


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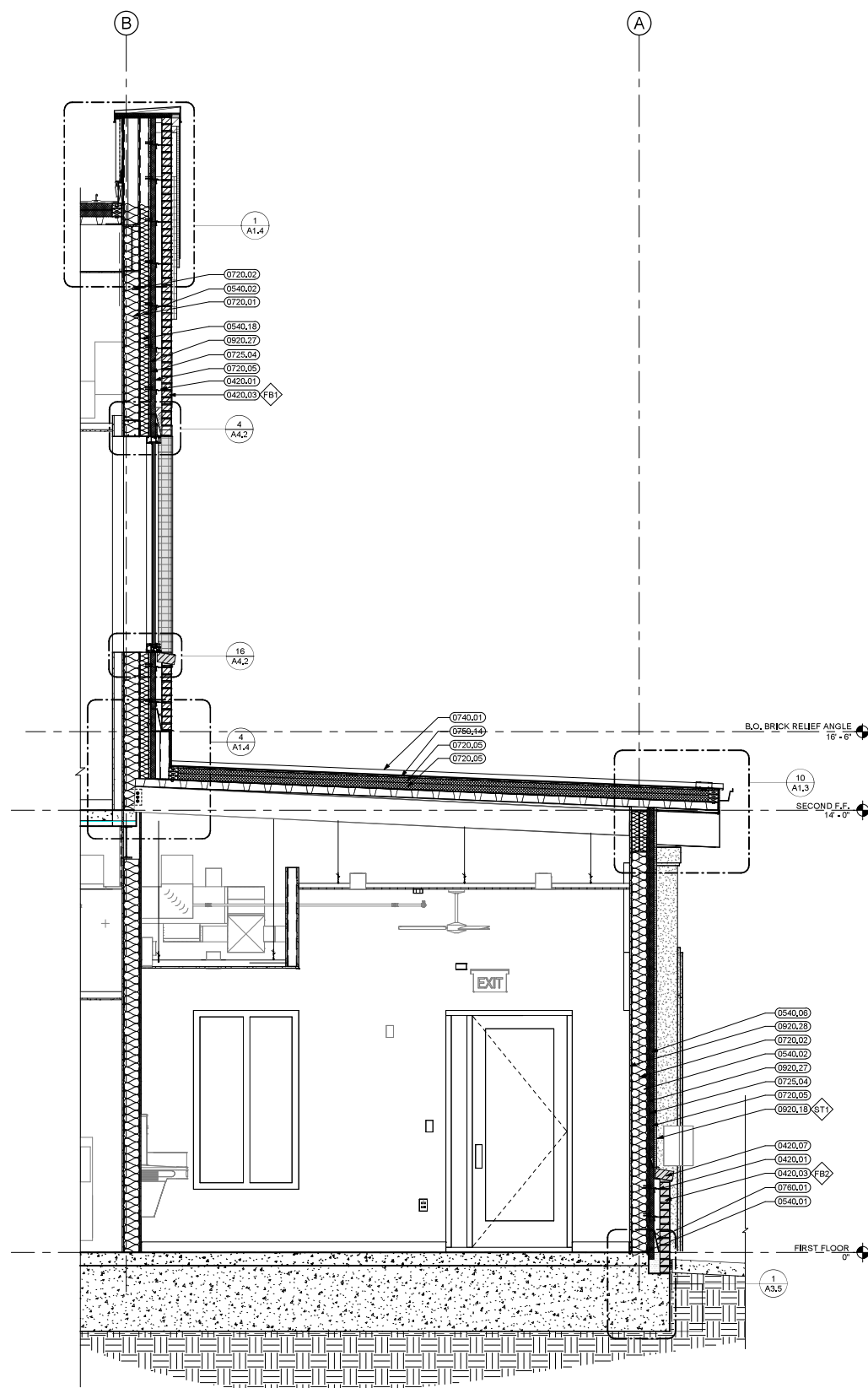
A3.3

WALL SECTIONS

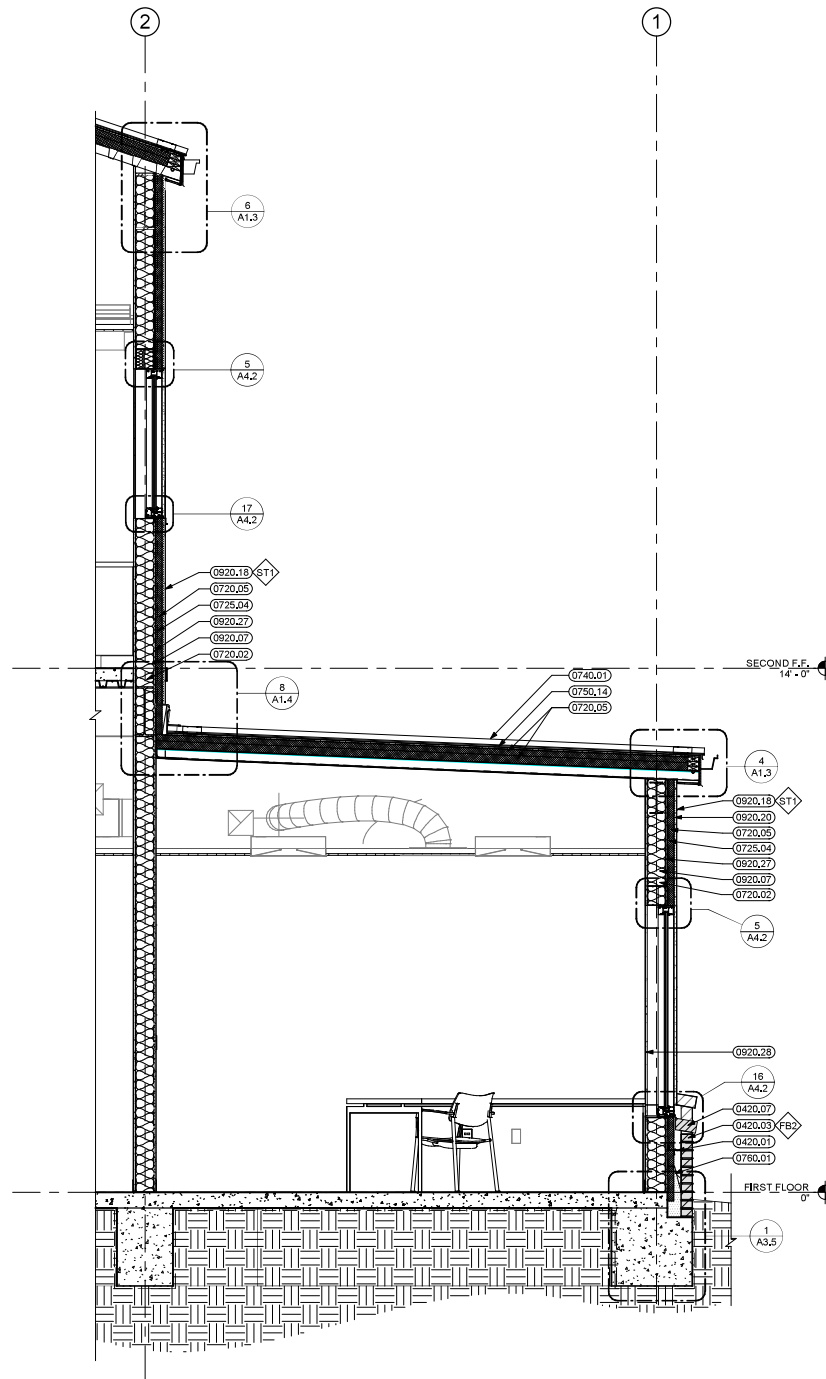
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3 WALL SECTION
1/2" = 1'-0"



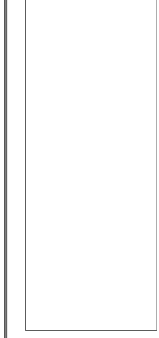
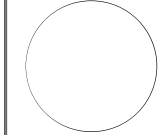
2 WALL SECTION
1/2" = 1'-0"



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

KEYNOTES

- 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
- 0420.03 4" FACE BRICK
- 0420.07 SLOPED ROWLOCK SILL
- 0540.01 COLD-FORMED METAL FRAMING
- 0540.02 6" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
- 0540.06 2" COLD-FORMED METAL FURRING CHANNEL
- 0540.18 3 5/8" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
- 0720.01 3 1/2" BATT INSULATION
- 0720.02 6 1/4" BATT INSULATION
- 0720.05 2" CONTINUOUS INSULATION
- 0725.04 FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
- 0740.01 PREFINISHED METAL ROOF PANEL SYSTEM
- 0750.14 1/2" ROOF COVER BOARD
- 0760.01 THROUGHWALL FLASHING WITH WEEPS AT 2'-0" O.C. AND MORTAR NET
- 0920.07 6" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
- 0920.17 5/8" GYPSUM BOARD ON METAL SUSPENSION SYSTEM
- 0920.18 1" PORTLAND CEMENT STUCCO ON METAL LATH
- 0920.20 METAL LATH
- 0920.27 1/2" EXTERIOR GYPSUM SHEATHING
- 0920.28 5/8" GYPSUM BOARD (TYPE X)



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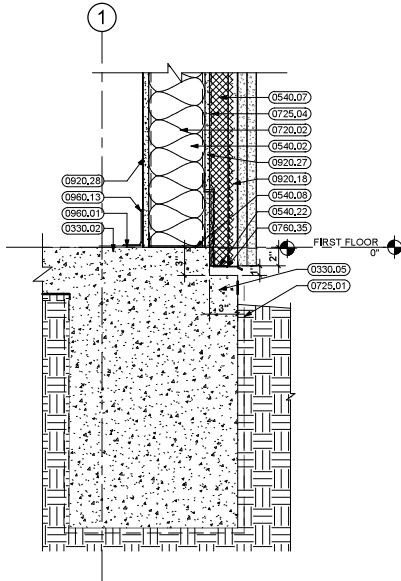


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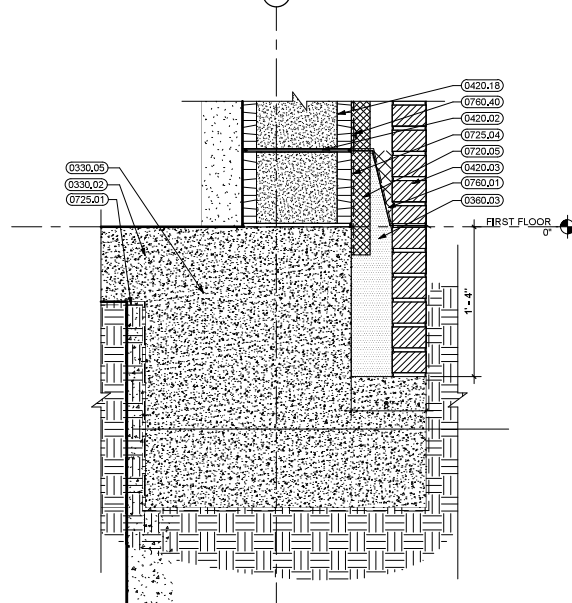
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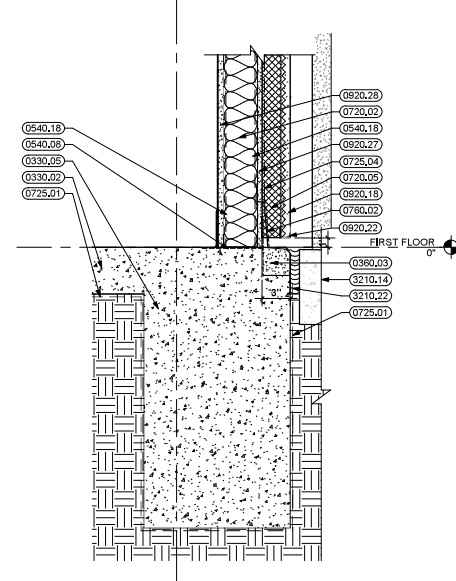
WALL SECTIONS



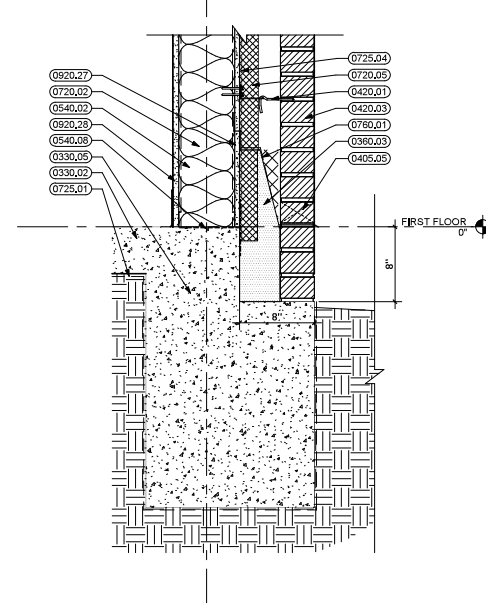
5 WALL DETAIL



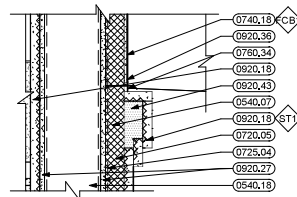
3 WALL DETAIL



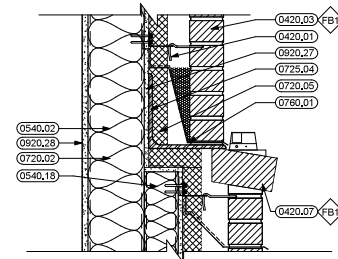
2 WALL DETAIL



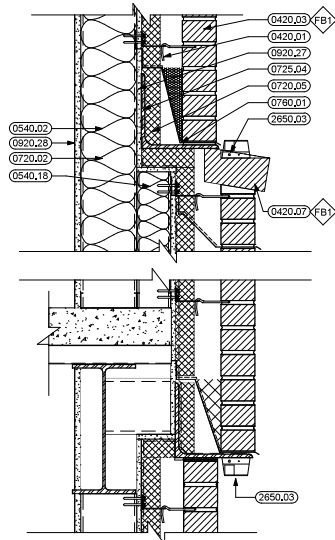
1 WALL DETAIL



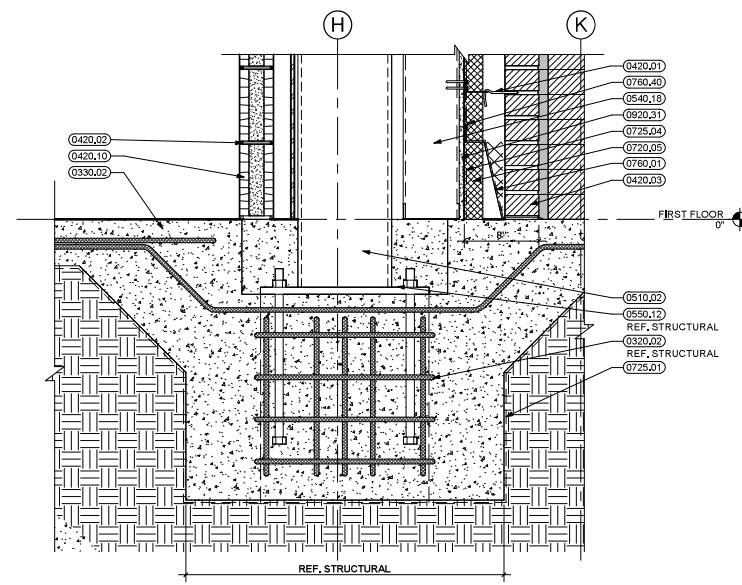
9 SECTION DETAIL



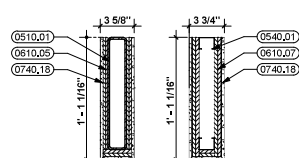
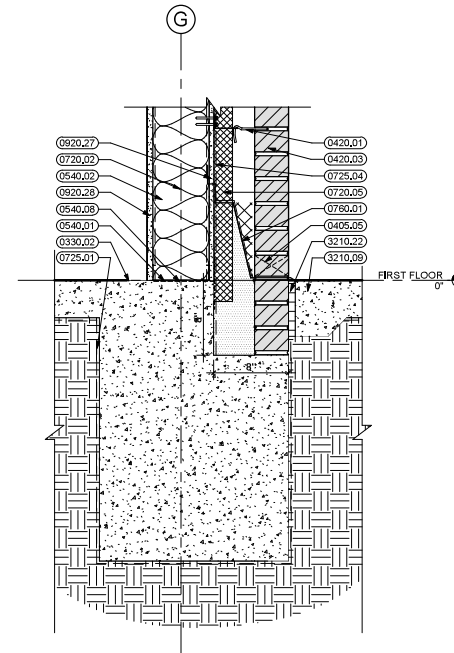
8 SECTION DETAIL @ ARCH LIGHTS



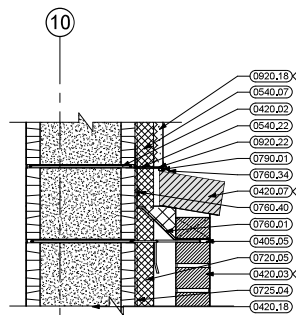
7 WALL DETAIL



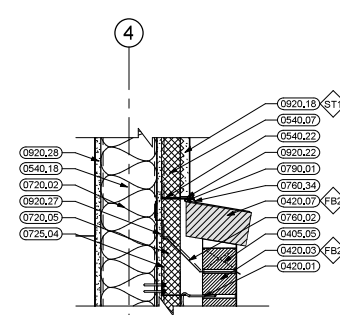
6 WALL DETAIL



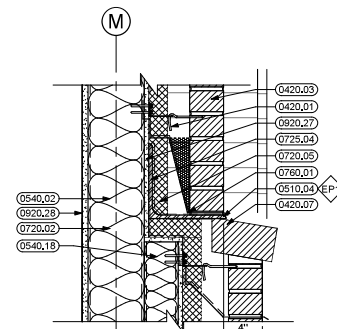
10 RAFTER DETAIL



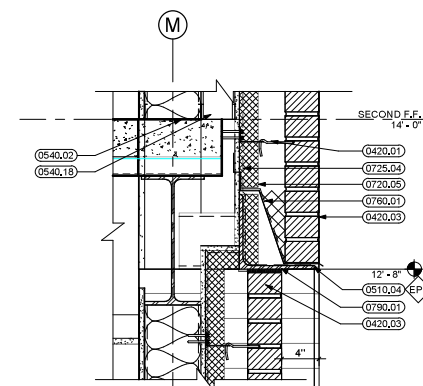
15 SECTION DETAIL



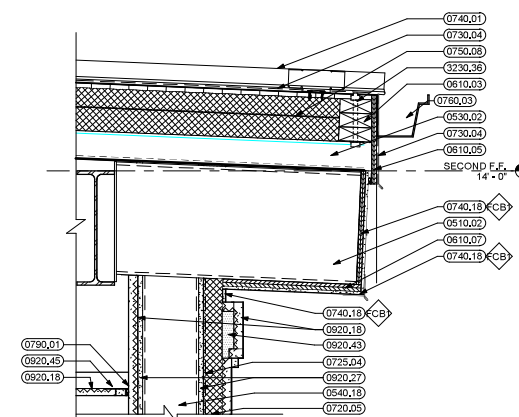
14 SECTION DETAIL



13 SECTION DETAIL



12 SECTION DETAIL



11 RAFTER DETAIL

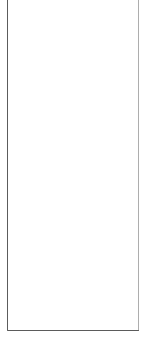
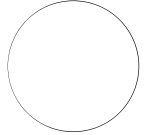
- ## KEYNOTES

- | | |
|---------|---|
| 0320.02 | STEEL REINFORCING |
| 0330.02 | CONCRETE SLAB |
| 0330.05 | CONCRETE GRADE BEAM |
| 0400.00 | FILL WITH GROUT |
| 0405.05 | MASONRY VENEER VENT / VENT |
| 0420.01 | ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W. |
| 0420.02 | CONCRETE MASONRY UNIT HORIZONTAL REINFORCING |
| 0420.03 | 4" FACE BRICK |
| 0420.07 | SLOPED ROOFWALK SILL |
| 0420.09 | 4" CONCRETE MASONRY UNITS |
| 0501.18 | 12" CONCRETE MASONRY UNITS |
| 0510.01 | STEEL STRUCTURE (RE: STRUCTURAL) |
| 0510.02 | STEEL COLUMN (RE: STRUCTURAL) |
| 0510.04 | STEEL-ANGLE (RE: STRUCTURAL) |
| 0520.02 | METAL ROOF DECK (RE: STRUCTURAL) |
| 0540.01 | COLD-FORMED METAL FRAMING |
| 0540.02 | 6" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM |
| 0540.07 | 2" METAL COLDFORMED METAL FURRING CHANNELS AT 16" O.C., HORIZONTALLY |
| 0540.08 | STEEL GASKET |
| 0540.18 | 3/8" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM |
| 0540.22 | J-TRACK |
| 0550.12 | STEEL BASE PLATING |
| 0610.03 | 2X WOOD BLOCKING |
| 0610.05 | 1/2" EXTERIOR GRADE PLYWOOD |
| 0610.07 | 3/4" EXTERIOR GRADE PLYWOOD |
| 0720.02 | 6 1/4" BATT INSULATION |
| 0720.05 | 2" CONTINUOUS INSULATION |
| 0720.01 | UNDERSLAB VAPOR BARRIER |
| 0750.04 | FLUOROPOLYMER MEMBRANE AIR BARRIER SYSTEM |
| 0750.04 | SELF-ADHERING, HIGH-TEMPERATURE ROOFING UNDERLAYMENT |
| 0740.01 | PREFINISHED METAL ROOF PANEL SYSTEM |
| 0740.18 | REINFORCED CEMENTITIOUS WALL PANEL |
| 0750.08 | TWO (2) LAYERS OF 2"X2" RIGID ROOF INSULATION (R-25) |
| 0760.01 | THROUGH-WALL FLASHING WITH WEEPS AT 24" O.C. AND MORTAR NET |
| 0760.02 | THROUGH-WALL FLASHING WITH WEEPS AT 24" O.C. (AS REQUIRED) |
| 0760.03 | PREFINISHED METAL GUTTER |
| 0760.34 | PREFORMED PREFINISHED METAL FLASHING WITH ALL SEAMS WELDED WATERTIGHT |
| 0760.35 | PREFINISHED METAL THROUGH WALL FLASHING WITH HEMMED DRIP EDGE |
| 0760.40 | TENSION BAR AND PREFINISHED FLASHING CAP |
| 0790.01 | SEALANT WITH BACKER ROD AS REQUIRED |
| 0920.18 | 1" PORTLAND CEMENT STUCCO ON METAL LATH |
| 0920.22 | STUCCO CASING BEAD |
| 0920.27 | 1/2" EXTERIOR GYPSUM SHEATHING |
| 0920.28 | 5/8" GYPSUM BOARD (TYPE X) |
| 0920.31 | 1/2" GYPSUM BOARD (TYPE X) |
| 0920.36 | JACOULD TYPE-X |
| 0920.43 | FOAM SHAPE OVER ADHESIVE |
| 0920.45 | ALUMINUM STUCCO F REVEAL |
| 0920.46 | FLOORING AS SCHEDULED |
| 0960.13 | 4" RESILIENT BASE |
| 2650.03 | SURFACE-MOUNTED LIGHT FIXTURE |
| 3210.09 | CONCRETE SIDEWALK (RE: CIVIL) |
| 3210.14 | CONCRETE PAVING (RE: CIVIL) |
| 3210.22 | PAVING EXPANSION JOINT - FILL WITH JOINT SEALER 1/4" BELOW SURFACE |
| 3230.36 | THROUGH-HOLE |



**BROWN REYNOLDS WATFORD
ARCHITECTS**

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 DATE APRIL 24, 2024
 DRAWN BY SD, SP, LG, CD, JD
 CHECKED BY JD, RH, MW
 BRW PROJECT NUMBER 223136.00

**KINGSVILLE
FIRE STATION NO. 3**

2602 S 6TH ST.
KINGSVILLE, TX 78363

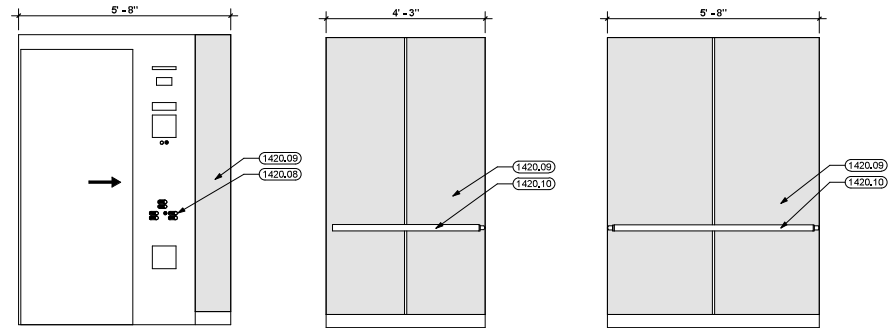


NO.	REVISION	DATE

A3.5

SECTION DETAILS

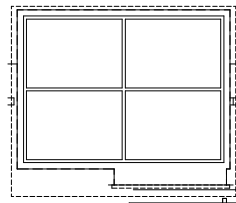
ISSUE FOR BID



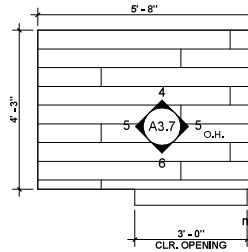
ELEVATOR CAB
7 INTERIOR ELEVATION
1/2" = 1'-0"

ELEVATOR CAB
6 INTERIOR ELEVATION
1/2" = 1'-0"

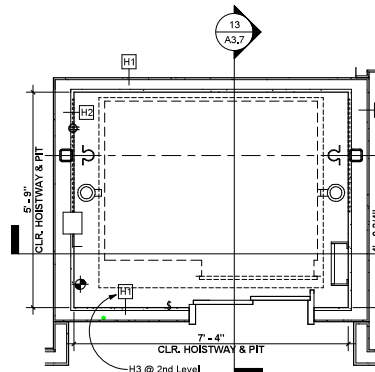
ELEVATOR CAB
5 INTERIOR ELEVATION
1/2" = 1'-0"



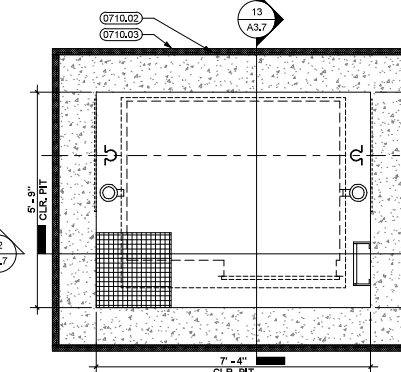
ELEVATOR CAB
2 REFLECTED CEILING PLAN
1/2" = 1'-0"



ELEVATOR CAB
3 FINISH PLAN
1/2" = 1'-0"



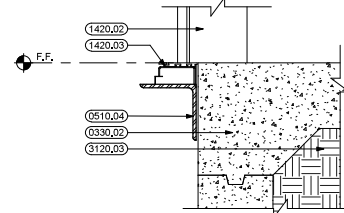
ELEVATOR PLAN
1/2" = 1'-0"



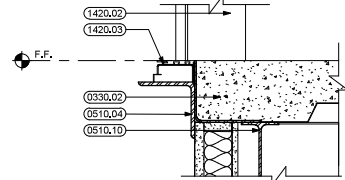
ELEVATOR PIT PLAN
1/2" = 1'-0"

KEYNOTES

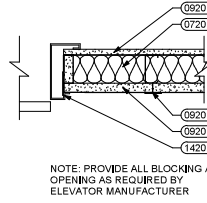
- 0310.06 WATER STOP
- 0330.01 CONCRETE
- 0330.02 CONCRETE SLAB
- 0510.04 STEEL ANGLE (RE: STRUCTURAL)
- 0510.10 STEEL BEAM (RE: STRUCTURAL)
- 0550.34 METAL SHIPS LADDER
- 0550.45 METAL GRATING
- 0710.02 SELF ADHERING SHEET WATERPROOFING MEMBRANE
- 0710.03 MOLDED-SHEET DRAINAGE PANEL
- 0720.01 3 1/2" BATT INSULATION
- 0920.13 4" METAL C-CH STUDS AT 2'-0" O.C.
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 1420.03 1" SHAFT LINER
- 1420.02 STAINLESS STEEL ELEVATOR ENTRANCE DOOR SILL
- 1420.08 ELEVATOR CALL BUTTONS
- 1420.09 LAMINATE ELEVATOR CAB WALL PANELS
- 1420.10 ELEVATOR CAB FLAT HANDRAIL
- 2210.12 SUMP PUMP
- 3120.03 COMPACTED SUBGRADE
- 3340.10 PERFORATED PIPE SUBSURFACE DRAINAGE SYSTEM
- 3340.12 FREE-DRAINING AGGREGATE
- 3340.13 FILTER FABRIC



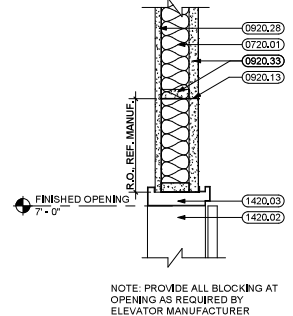
ELEVATOR DOOR SILL
1 1/2" = 1'-0"



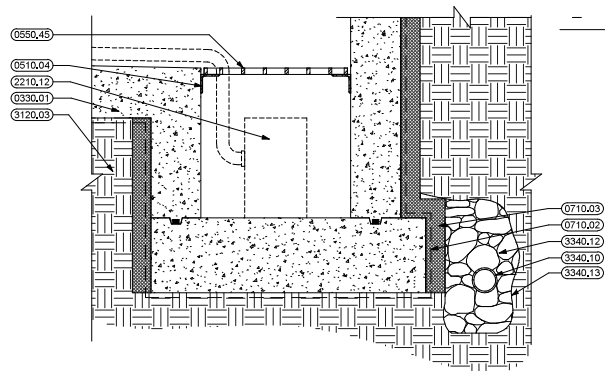
ELEVATOR DOOR SILL
1 1/2" = 1'-0"



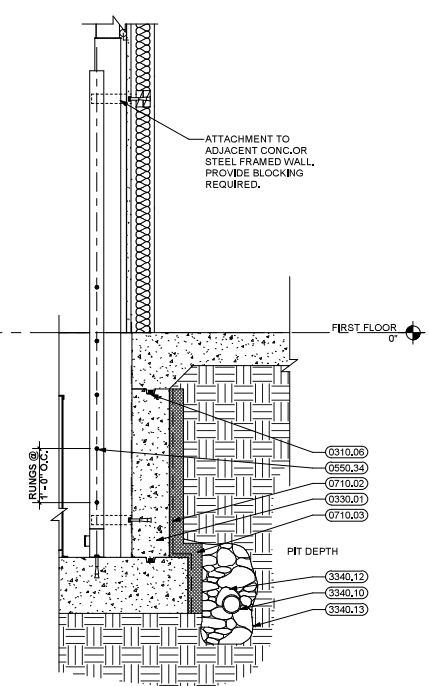
ELEVATOR DOOR JAMB
1 1/2" = 1'-0"



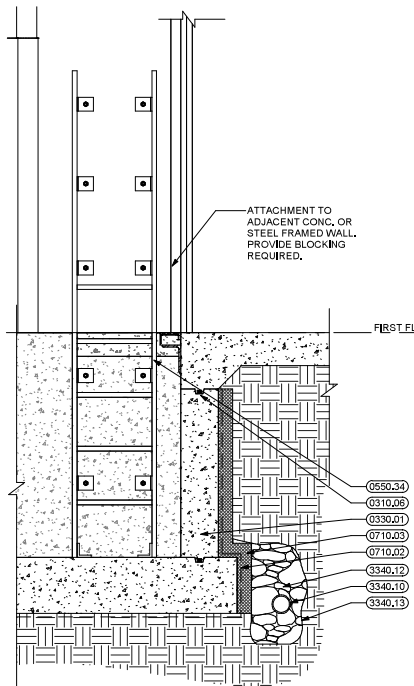
ELEVATOR DOOR HEAD
1 1/2" = 1'-0"



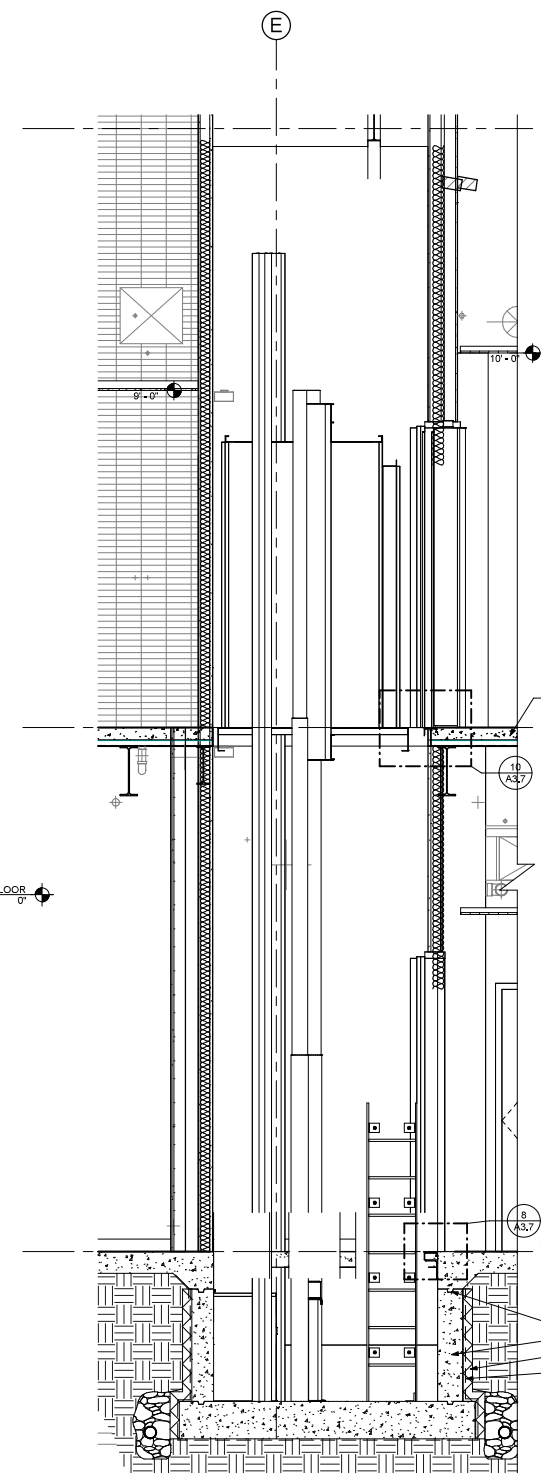
ELEVATOR PIT SUMP PUMP DETAIL
1" = 1'-0"



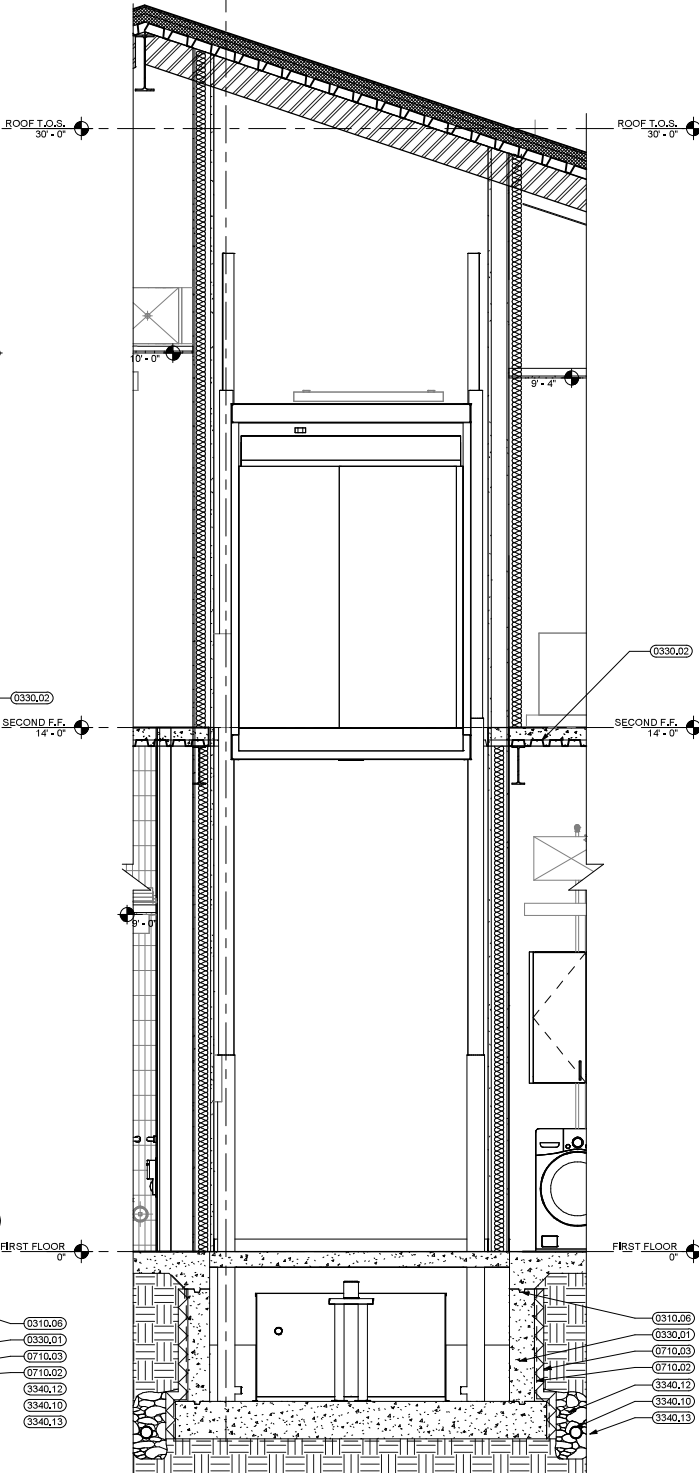
PIT LADDER DETAIL
3/4" = 1'-0"



PIT LADDER DETAIL
3/4" = 1'-0"



ELEVATOR SECTION
1/2" = 1'-0"



ELEVATOR SECTION
1/2" = 1'-0"



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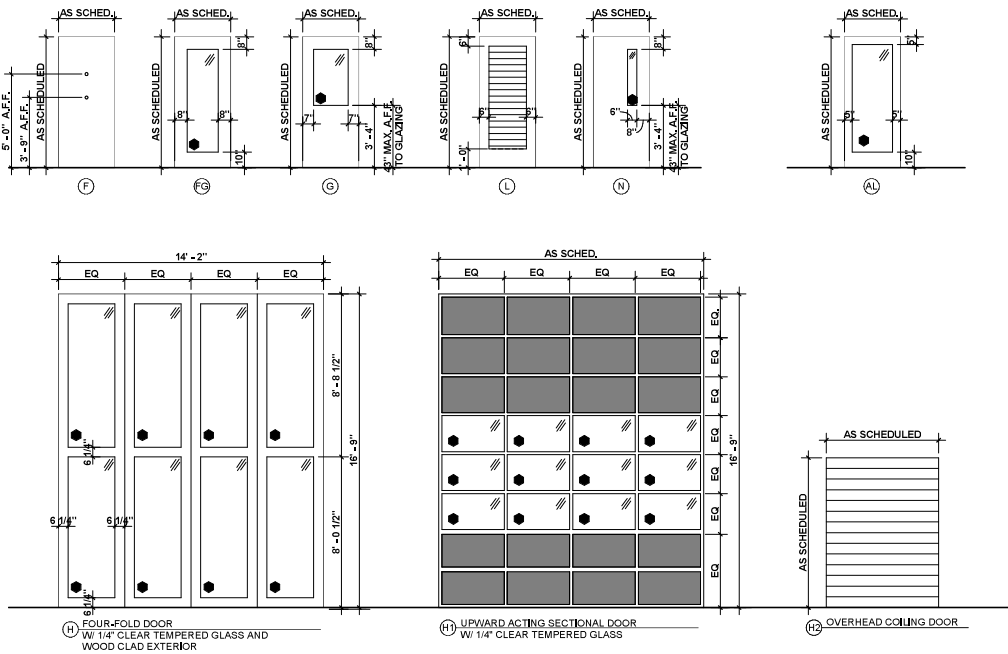
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DRAWN BY SD, SP, LG, CD, JD
CHECKED BY JD, RH, MW
BRW PROJECT NUMBER 223136.00



NO.	REVISION	DATE

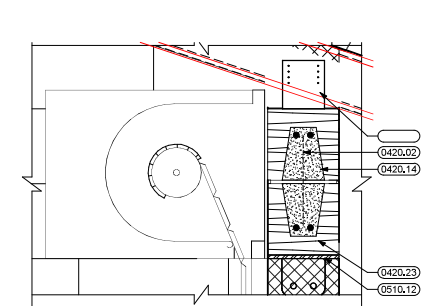
A3.7
ELEVATOR PLAN, SECTION, & DETAILS

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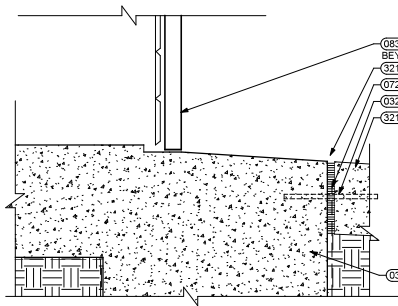
1 DOOR TYPES

N.T.S.



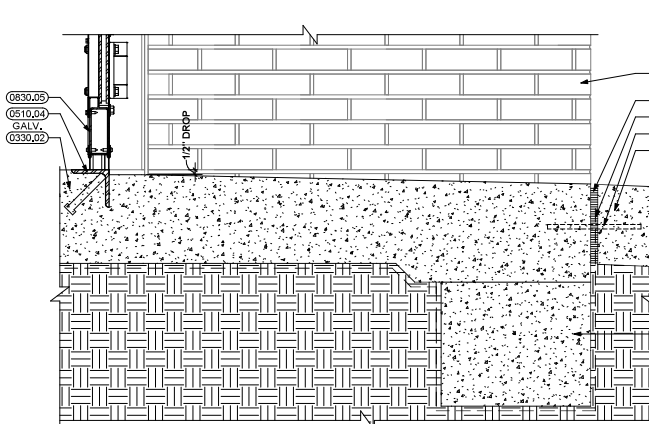
3 COILING DOOR HEAD

1 1/2" = 1'-0"



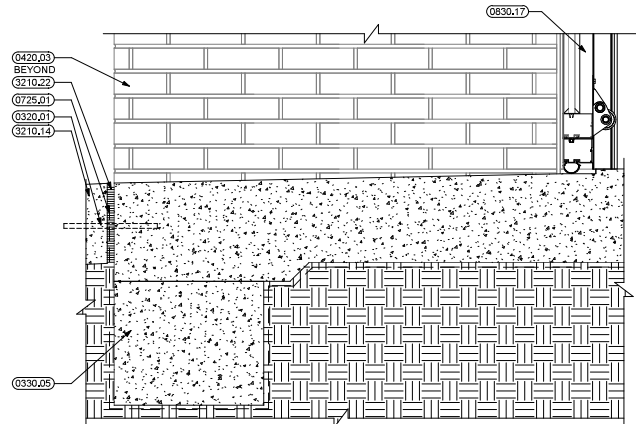
2 COILING DOOR SILL

1 1/2" = 1'-0"



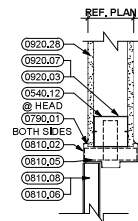
17 FOUR FOLD DOOR SILL

1 1/2" = 1'-0"



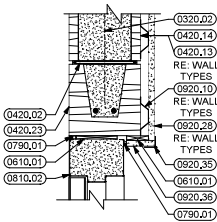
16 SECTIONAL DOOR SILL

1 1/2" = 1'-0"



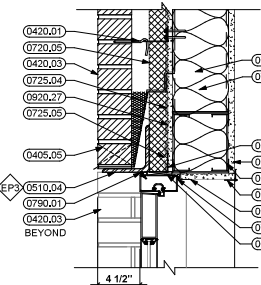
12 DOOR HEAD/JAMB

1 1/2" = 1'-0"



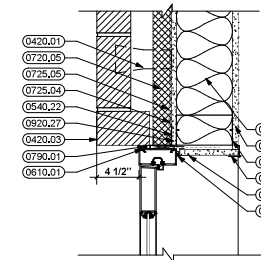
15 DOOR HEAD/JAMB

1 1/2" = 1'-0"



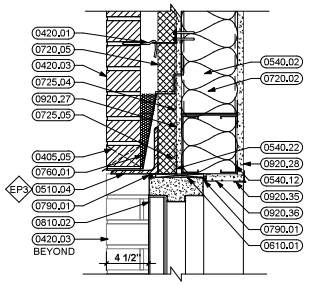
5 DOOR HEAD DETAIL

1 1/2" = 1'-0"



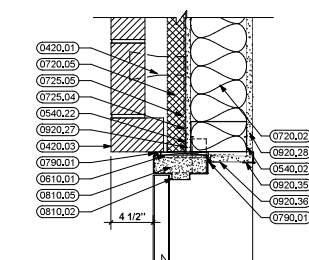
11 DOOR JAMB DETAIL

1 1/2" = 1'-0"



4 DOOR HEAD DETAIL

1 1/2" = 1'-0"



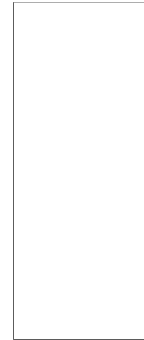
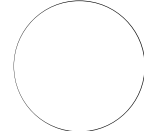
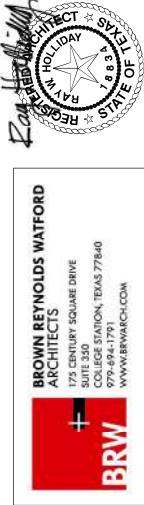
9 DOOR JAMB DETAIL

1 1/2" = 1'-0"

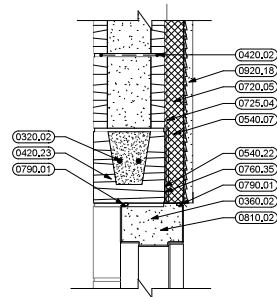
DOOR SCHEDULE														
DOOR NUMBER	DESCRIPTION	SIZE	DOOR MTL.	TYPE	FRAME MTL.	TYPE	SILL	JAMB	HEAD	HWR. SET	FIRE RATING	REMARKS	ROOM	
FIRST FLOOR														
101	SINGLE	3'-0" X 7'-0" X 1 3/4"	AL/GL	AL	AL	-	14/A4.1	11/A4.1	5/A4.1	W715A		ACCESS CONTROLLED	LOBBY	
102	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	AL	1	--	12/A4.1	12/A4.1	503			TREATMENT	
103	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	341			PUBLIC RR	
104	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	AL	1	--	12/A4.1	12/A4.1	C201		ACCESS CONTROLLED	CONFERENCE ROOM	
105	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	AL	1	--	12/A4.1	12/A4.1	103			WATCH ROOM	
106	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	AL	1	--	12/A4.1	12/A4.1	103			CHIEF'S OFFICE	
107	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	343			CHIEF'S RR	
108	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	303G			CHIEF'S OFFICE	
109	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	201			CORR.	
110	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	AL	1	--	12/A4.1	12/A4.1	103			ADMIN. ASSISTANT	
111	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	341			RESTROOM	
112	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	AL	1	--	12/A4.1	12/A4.1	103			ADMIN CAPTAIN	
113	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	FG	AL	1	--	12/A4.1	12/A4.1	C201		ACCESS CONTROLLED	CORR.	
114	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	AL	1	--	12/A4.1	12/A4.1	103			CORR.	
115	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	C201		ACCESS CONTROLLED	ELECT. COMM	
116	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	AL	1	--	12/A4.1	12/A4.1	201			STORAGE	
117	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	203			JANITOR	
120	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	G	HM	1	--	12/A4.1	12/A4.1	731G			AIRLOCK	
121	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	401G			UTILITY ROOM	
122A	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	G	HM	1	--	12/A4.1	12/A4.1	731G			STAIR	
122B	SINGLE	3'-0" X 7'-0" X 1 3/4"	HM	N	HM	2	13/A4.1	9/A4.1, 14/A4.2	15/A4.2			ACCESS CONTROLLED	STAIR	
123	SINGLE	3'-0" X 7'-8" X 1 3/4"	AL/GL	AL	AL	-	15/A4.2	9/A4.2	9/A4.2	WC715A		ACCESS CONTROLLED	DAY ROOM	
123A	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	L	HM	1	--	12/A4.1	12/A4.1	203S			KITCHEN / DINING	
123B	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	L	HM	1	--	12/A4.1	12/A4.1	203S			KITCHEN / DINING	
123C	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	L	HM	1	--	12/A4.1	12/A4.1	203S			KITCHEN / DINING	
125A	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	FG	AL	-		7/A4.1	7/A4.1				EXERCISE	
125B	SINGLE	3'-0" X 7'-4" X 1 3/4"	AL/GL	AL	AL	-	15/A4.2	9/A4.2	2/A4.2	W214		ACCESS CONTROLLED	EXERCISE	
126	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	G	HM	1	--	12/A4.1	12/A4.1	731G			AIRLOCK	
127A	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	G	HM	1	--	12/A4.1	12/A4.1	731G			STAIR	
127B	SINGLE	3'-0" X 7'-0" X 1 3/4"	HM	N	HM	2	13/A4.1	9/A4.1, 14/A4.2	8/A4.2			ACCESS CONTROLLED	STAIR	
128	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	343			DECON RR	
129	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	343			DECON RR	
130A	SINGLE	3'-0" X 7'-0" X 1 3/4"	HM	F	HM	2	15/A4.1	15/A4.1	401G				AIRLOCK	
130B	SINGLE	3'-0" X 7'-0" X 1 3/4"	HM	F	HM	2	15/A4.1	15/A4.1	C205H			ACCESS CONTROLLED	EXTRACTOR / DECON	
130C	SINGLE	3'-0" X 7'-0" X 1 3/4"	HM	F	HM	2	15/A4.1	15/A4.1	C205I				EXTRACTOR / DECON	
131	SINGLE	3'-0" X 7'-0" X 1 3/4"	HM	F	HM	2	15/A4.1	15/A4.1	C205S			ACCESS CONTROLLED	BUNKER GEAR	
132	SINGLE	3'-0" X 7'-0" X 1 3/4"	HM	F	HM	2	15/A4.1	15/A4.1	C205I			ACCESS CONTROLLED	SHOP	
133	SINGLE	3'-0" X 7'-0" X 1 3/4"	HM	F	HM	2	15/A4.1	15/A4.1	C205I			ACCESS CONTROLLED	EMS STORAGE	
134A	SINGLE	3'-0" X 7'-0" X 1 3/4"	HM	G	HM	1	--	12/A4.1	--	C715		ACCESS CONTROLLED	AIRLOCK	
134B	SINGLE	3'-0" X 7'-0" X 1 3/4"	HM	G	HM	1	--	12/A4.1	--	C715		ACCESS CONTROLLED	AIRLOCK	
134C	FOUR FOLD	14'-0" X 16'-8" X	-	H	-	-	6/A3.3	8/A1.	9/A4.1	000	--			
134D	FOUR FOLD	14'-0" X 16'-8" X	-	H	-	-	6/A3.3	8/A1.	9/A4.1	000	--			
134E	OVERHEAD SECTIONAL	14'-0" X 16'-8" X 1 3/4"	H	-	-	-	7/A3.3	8/A1.	9/A4.1	000	--		APPARATUS BAY	
134G	OVERHEAD SECTIONAL	14'-0" X 16'-8" X 1 3/4"	H	-	-	-	7/A3.3	8/A1.	9/A4.1	000	--			
135	SINGLE	3'-0" X 7'-0" X 1 3/4"	HM	F	HM	2	13/A4.1	9/A4.1	4/A4.1	W205			FIRE RISER	
301	OVERHEAD COILING DOOR	6'-0" X 8'-0" X 1 3/4"	-	H2	-	-		7/A4.1	2/A4.1	001			STORAGE	
SECOND F.F.														
202	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	303G			SLEEPING	
203	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	303G			SLEEPING	
204	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	303G			SLEEPING	
205	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	303G			SLEEPING	
206	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	303G			SLEEPING	
207	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	303G			SLEEPING	
208	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	303G			SLEEPING	
209	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	303G			SLEEPING	
210	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	341			RESTROOM	
211	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	341			RESTROOM	
212	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	341			RESTROOM	
213	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	341			RESTROOM	
215	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	FG	AL	-	--	--	--	12/A4.1	401		SLIDE POLE	
216	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	G	HM	1	--	12/A4.1	12/A4.1	731G			CORR.	
217	PAIR	6'-0" X 7'-0" X 1 3/4"	HM	F	HM	1	--	12/A4.1	12/A4.1	210			CORR.	
218	PAIR	6'-0" X 7'-0" X 1 3/4"	HM	F	HM	1	--	12/A4.1	12/A4.1	210			CORR.	
219	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	G	HM	1	--	12/A4.1	12/A4.1	731G			STAIR	
220	SINGLE	3'-0" X 7'-0" X 1 3/4"	WD	F	HM	1	--	12/A4.1	12/A4.1	201			STORAGE	

KEYNOTES

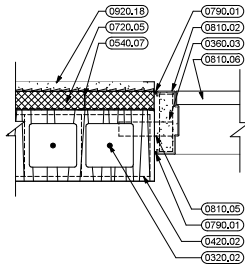
- 0310.10 CONCRETE EXPANSION JOINT. FILL WITH SEALANT TO WITHIN 1/4" OF SURFACE
- 0320.01 DOWEL INTO CONCRETE SLAB
- 0320.02 STEEL REINFORCING
- 0330.02 CONCRETE SLAB
- 0330.05 CONCRETE GRADE BEAM
- 0405.05 MASONRY VENEER WEEP / VENT
- 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C. E.V.
- 0420.02 CONCRETE MASONRY UNIT HORIZONTAL REINFORCING
- 0420.03 4" FACE BRICK
- 0420.13 6" CONCRETE MASONRY UNITS
- 0420.14 8" CONCRETE MASONRY UNITS
- 0420.23 CONCRETE MASONRY BOND BEAM
- 0510.04 STEEL ANGLE (RE STRUCTURAL)
- 0510.12 STEEL PLATE (RE STRUCTURAL)
- 0540.02 6" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
- 0540.12 GOLD-FORMED METAL HEADER
- 0540.22 1/2" TRACK
- 0610.01 SHIM AS REQUIRED
- 0720.02 6 1/4" BATT INSULATION
- 0720.05 2" CONTINUOUS INSULATION
- 0725.01 UNDERSLAB VAPOR BARRIER
- 0725.04 FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
- 0725.05 SELF-ADHERING DETAIL TRANSITION MEMBRANE
- 0760.01 THROUGH-WALL FLASHING WITH WEEPS AT 2'-0" O.C. AND MORTAR NET
- 0760.37 CONTINUOUS STEEL STRAP ATTACHED TO EACH STUD
- 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
- 0790.07 SET IN BED OF SEALANT
- 0810.02 HOLLOW METAL FRAME
- 0810.05 JAMB ANCHOR (3 PER JAMB)
- 0810.06 HOLLOW METAL DOOR
- 0810.08 SOLID CORE WOOD DOOR
- 0830.05 ELECTRIC OPERATED FOUR-FOLD DOOR
- 0830.14 OVERHEAD COILING DOOR
- 0830.17 UPWARD ACTING SECTIONAL DOOR
- 0840.02 ALUMINUM STOREFRONT DOOR
- 0870.01 METAL THRESHOLD. SET IN BED OF SEALANT
- 0880.02 GLASS TYPE MG#18 (MONOLITHIC CLEAR, HEAT STRENGTHENED)
- 0920.03 3/8" METAL STUDS (20 GAUGE MINIMUM) AT 8" O.C.
- 0920.07 6" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
- 0920.10 7/8" FURRING CHANNELS AT 16" O.C.
- 0920.27 1/2" EXTERIOR GYPSUM SHEATHING
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0920.35 CORNER BEAD, TYPICAL
- 0920.36 JACOULO, TYPICAL
- 0980.01 3 1/2" FIBERGLASS SOUND ATTENUATION BATT INSULATION
- 3210.14 CONCRETE PAVING (RE CIVIL)
- 3210.22 PAVING EXPANSION JOINT - FILL WITH JOINT SEALER 1/4" BELOW SURFACE



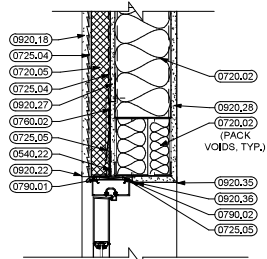
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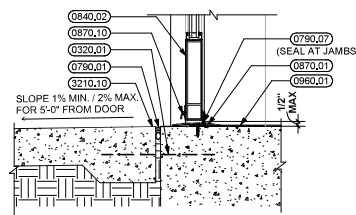
2 DOOR HEAD DETAIL
1 1/2" = 1'-0"



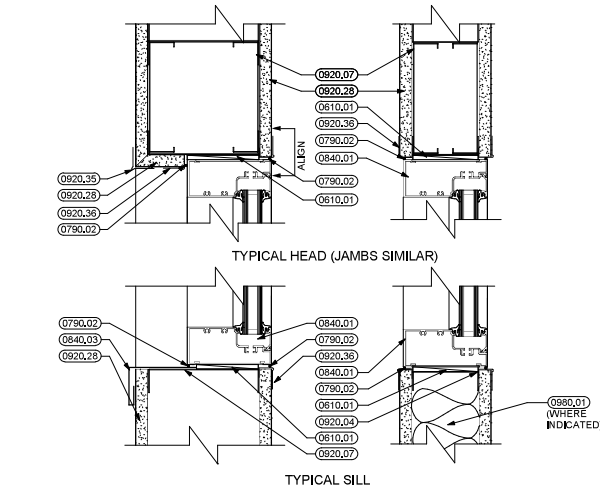
3 DOOR JAMB DETAIL
1 1/2" = 1'-0"



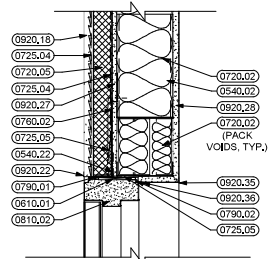
9 DOOR HEAD/JAMB
1 1/2" = 1'-0"



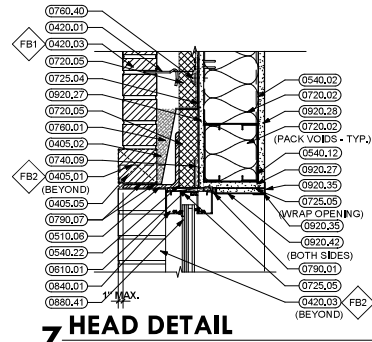
15 DOOR SILL DETAIL
1 1/2" = 1'-0"



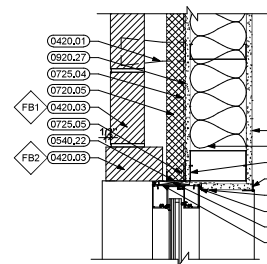
1 STOREFRONT HEAD / SILL DETAIL
3" = 1'-0"



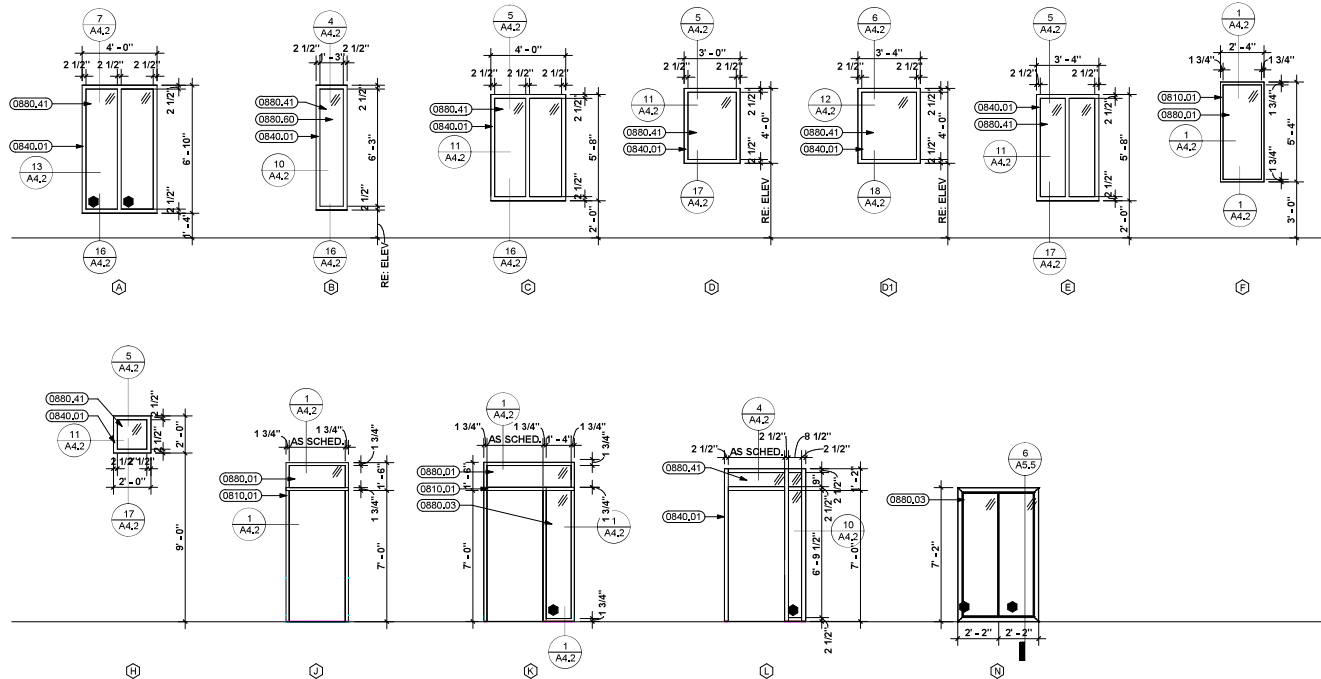
8 HEAD DETAIL
1 1/2" = 1'-0"



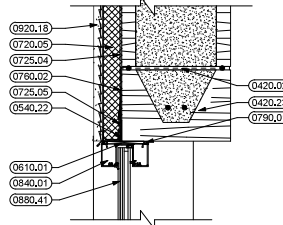
7 HEAD DETAIL
1 1/2" = 1'-0"



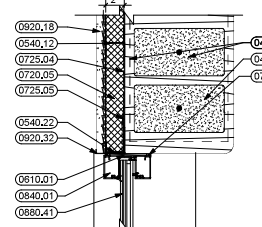
13 JAMB DETAIL
1 1/2" = 1'-0"



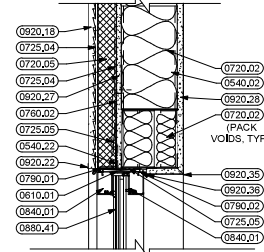
STOREFRONT AND CURTAINWALL TYPES



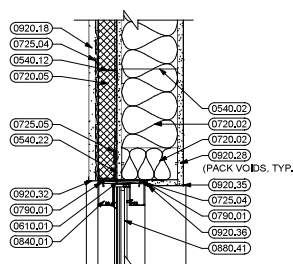
6 STOREFRONT HEAD DETAIL
1 1/2" = 1'-0"



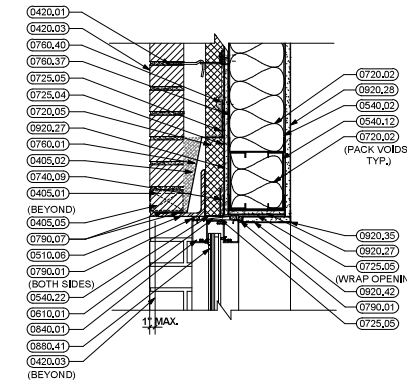
12 STOREFRONT JAMB DETAIL
1 1/2" = 1'-0"



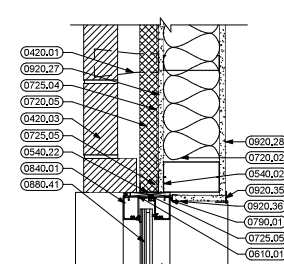
5 HEAD DETAIL
1 1/2" = 1'-0"



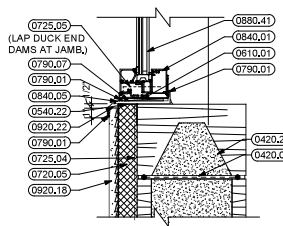
11 JAMB DETAIL
1 1/2" = 1'-0"



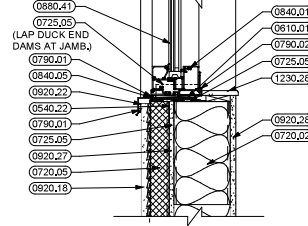
4 HEAD DETAIL
1 1/2" = 1'-0"



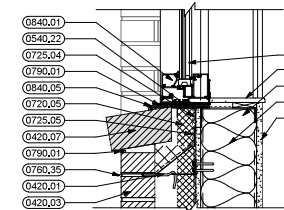
10 JAMB DETAIL
1 1/2" = 1'-0"



18 STOREFRONT SILL DETAIL
1 1/2" = 1'-0"



17 SILL DETAIL
1 1/2" = 1'-0"



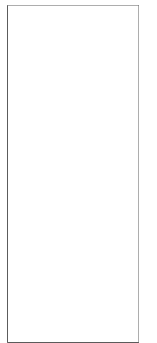
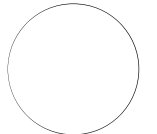
16 SILL DETAIL
1 1/2" = 1'-0"

KEYNOTES

- 0320.01 DOWEL INTO CONCRETE SLAB
- 0320.02 STEEL REINFORCING
- 0360.02 CEMENT GROUT
- 0360.03 FILL WITH GROUT
- 0405.01 FLASHING END DAM
- 0405.02 MORTAR NET
- 0405.05 MASONRY VENEER WEEP / VENT
- 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.
- 0420.02 CONCRETE MASONRY UNIT HORIZONTAL REINFORCING
- 0420.03 4" FACE BRICK
- 0420.07 SLOPED ROWLOCK SILL
- 0420.18 12" CONCRETE MASONRY UNITS
- 0420.23 CONCRETE MASONRY BOND BEAM
- 0510.06 STEEL LINTEL (RE: STRUCTURAL)
- 0540.02 6" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
- 0540.06 2" COLD-FORMED METAL FURRING CHANNEL
- 0540.07 2" VERTICAL COLD-FORMED METAL FURRING CHANNELS AT 16" O.C. HORIZONTALLY COLD-FORMED METAL HEADER
- 0540.12 J-TRACK
- 0540.22 SHIM AS REQUIRED
- 0720.02 6 1/4" BATT INSULATION
- 0720.05 2" CONTINUOUS INSULATION
- 0725.04 FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
- 0725.05 SELF-ADHERING DETAIL TRANSITION MEMBRANE
- 0740.09 COMPOSITE FRAMING SUPPORT SYSTEM
- 0760.01 THROUGH-WALL FLASHING WITH WEEPS AT 24" O.C. AND MORTAR NET
- 0760.02 THROUGH-WALL FLASHING (WITH WEEPS AT 24" O.C. AS REQUIRED)
- 0760.35 PREFINISHED METAL THROUGH WALL FLASHING WITH HEMMED DRIP EDGE
- 0760.37 CONTINUOUS STEEL STRAP ATTACHED TO EACH STUD
- 0760.40 TERMINATION BAR AND PREFINISHED FLASHING CAP
- 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
- 0790.02 CAULKING
- 0790.07 SET IN BED OF SEALANT
- 0810.01 INTERIOR ALUMINUM FRAME SYSTEM
- 0810.02 HOLLOW METAL FRAME
- 0810.05 JAMB ANCHOR (3 PER JAMB)
- 0810.06 HOLLOW METAL DOOR
- 0840.01 ALUMINUM STOREFRONT
- 0840.02 ALUMINUM STOREFRONT DOOR
- 0840.03 ALUMINUM SILL WITH HEMMED AND CLOSED ENDS
- 0840.05 CONTINUOUS ALUMINUM SILL PAN FLASHING WITH BACK AND END DAMS
- 0870.01 METAL THRESHOLD, SET IN BED OF SEALANT
- 0870.10 DOOR BOTTOM WITH DRIP SKIRT
- 0880.01 GLASS TYPE MG#1A (MONOLITHIC CLEAR, ANNEALED)
- 0880.03 GLASS TYPE MG#1C (MONOLITHIC CLEAR, FULLY TEMPERED)
- 0880.41 GLASS TYPE IG#11a (STORM IMPACT, INSULATED LAMINATED, LOW-E)
- 0880.60 TRANSLUCENT WINDOW FILM
- 0920.04 3/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
- 0920.07 6" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
- 0920.18 1" PORTLAND CEMENT STUCCO ON METAL LATH
- 0920.22 STUCCO CASING BEAD
- 0920.27 1/2" EXTERIOR GYPSUM SHEATHING
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0920.32 2 LAYERS OF 1/2" GYPSUM BOARD
- 0920.35 CORNER BEAD, TYPICAL
- 0920.36 JAMB/DOOR, TYPICAL
- 0920.42 L-BEAD, TYPICAL
- 0960.01 FLOORING AS SCHEDULED
- 0980.01 3 1/2" FIBERGLASS SOUND ATTENUATION BATT INSULATION
- 1230.28 QUARTZ WINDOW SILL
- 3210.10 CONCRETE CURB RAMP PER CITY REQUIREMENTS



BROWN REYNOLDS WATFORD
ARCHITECTS
179 CENTURY SQUARE DRIVE
SUITE 330
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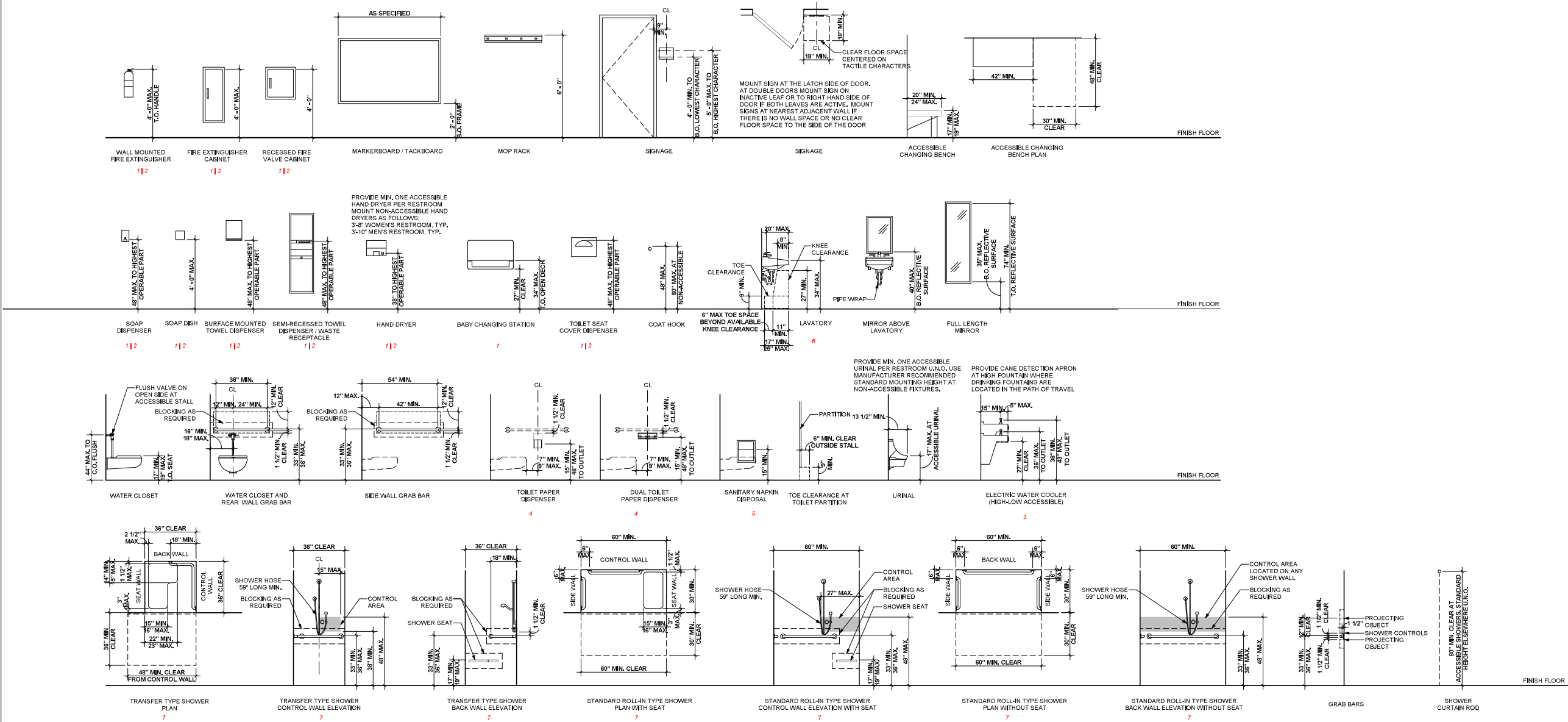
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NO.	REVISION	DATE

A4.2
STOREFRONT &
CURTAINWALL TYPES


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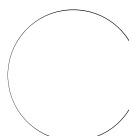
1 TYPICAL MOUNTING HEIGHTS
N.T.S.




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FIRE STATION NO. 3**
2602 S 6TH ST.
KINGSVILLE, TX 78363

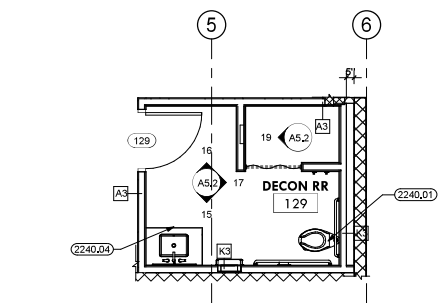
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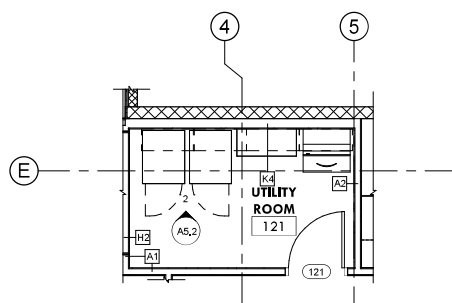
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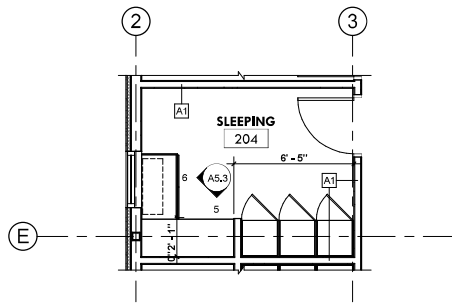
TYPICAL ACCESSIBILITY
DETAILS



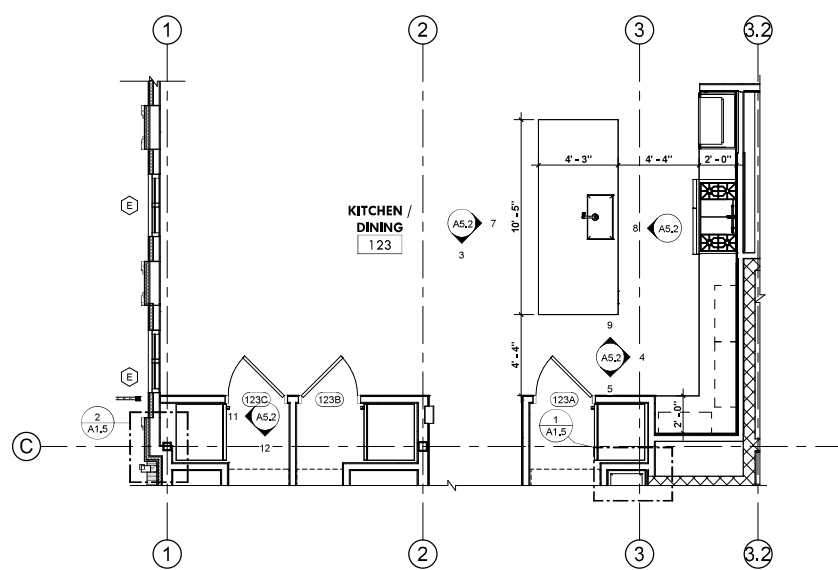
ENLARGED PLAN - DECON (129)
1/4" = 1'-0"



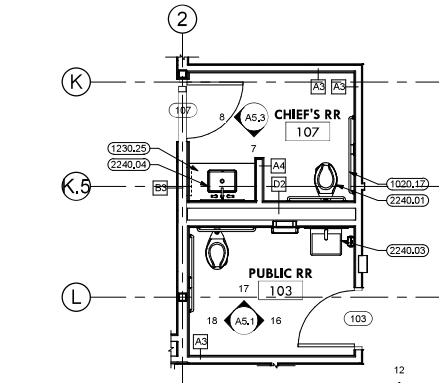
ENLARGED PLAN - UTILITY (121)
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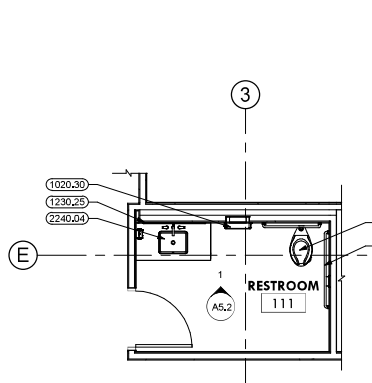
ENLARGED PLAN - SLEEPING (207)
1/4" = 1'-0"



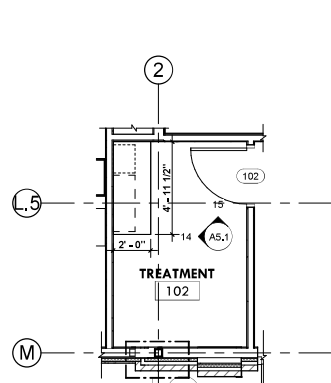
ENLARGED PLAN - KITCHEN/DINING (123)
1/4" = 1'-0"



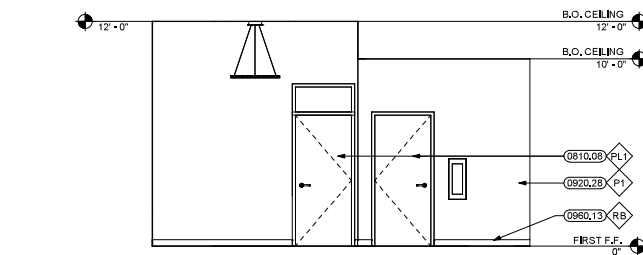
ENLARGED PLAN - PUBLIC RESTROOM (103 & 107)
1/4" = 1'-0"



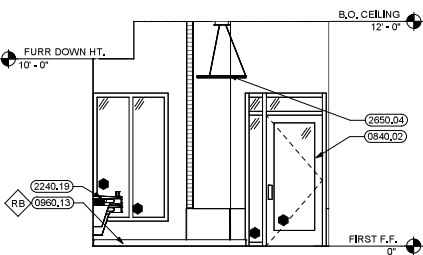
ENLARGED PLAN - RESTROOM (111)
1/4" = 1'-0"



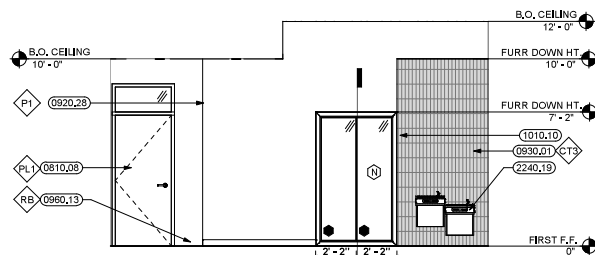
ENLARGED PLAN - TREATMENT ROOM (102)
1/4" = 1'-0"



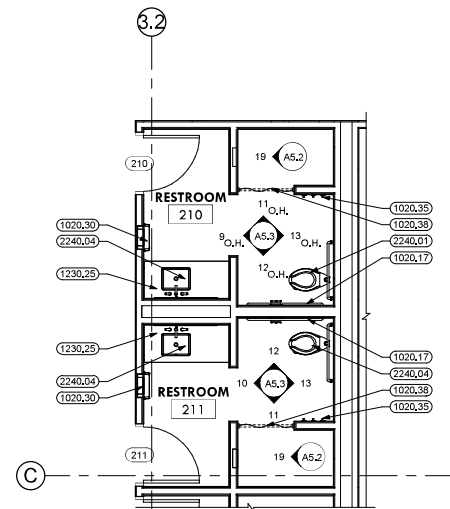
INT. ELEV. - LOBBY (101)
1/4" = 1'-0"



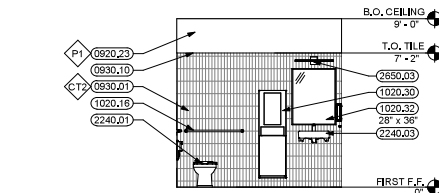
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1/4" = 1'-0"



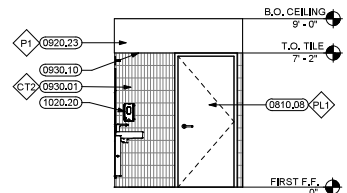
INT. ELEV. - LOBBY (101)
1/4" = 1'-0"



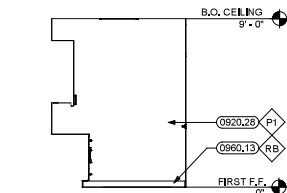
ENLARGED PLAN - RESTROOM (210/211)
1/4" = 1'-0"



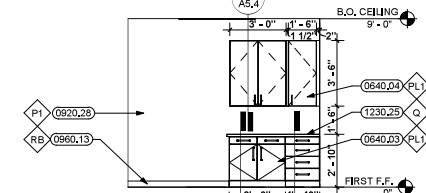
INT. ELEV. - PUBLIC R.R. (103)
1/4" = 1'-0"



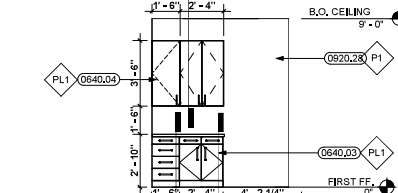
INT. ELEV. - PUBLIC R.R. (103)
1/4" = 1'-0"



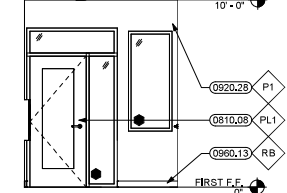
INT. ELEV. - TREATMENT (102)
1/4" = 1'-0"



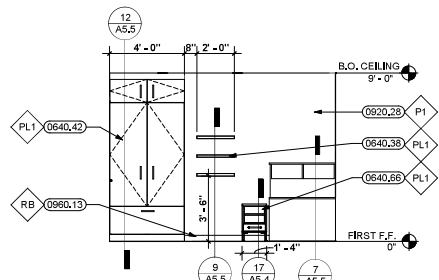
INT. ELEV. - TREATMENT (102)
1/4" = 1'-0"



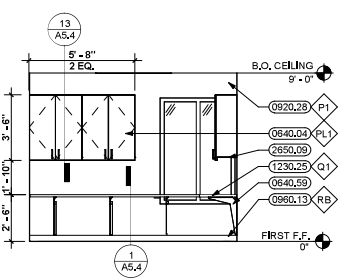
INT. ELEV. - EMS STOR. (133)
1/4" = 1'-0"



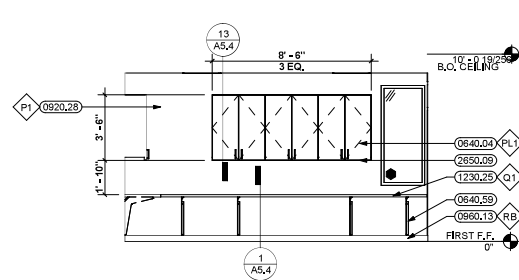
INT. ELEV. - LOBBY (101)
1/4" = 1'-0"



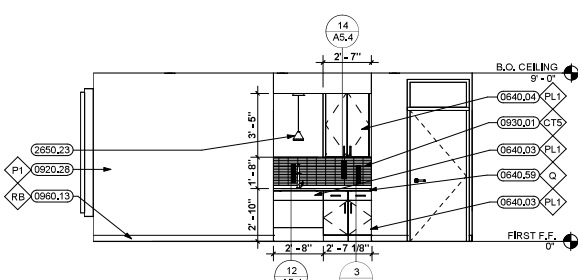
INT. ELEV. - SLEEPING (108)
1/4" = 1'-0"



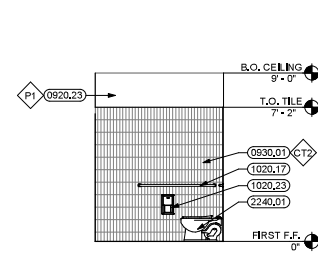
INT. ELEV. - WATCHROOM (105)
1/4" = 1'-0"



INT. ELEV. - WATCHROOM (105)
1/4" = 1'-0"



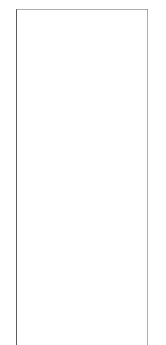
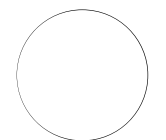
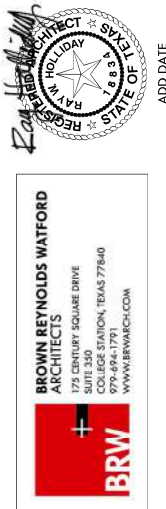
INT. ELEV. - CONFERENCE (104)
1/4" = 1'-0"



INT. ELEV. - PUBLIC R.R. (103)
1/4" = 1'-0"

KEYNOTES

- 0640.03 PLASTIC LAMINATE CLAD BASE CABINETS WITH ADJUSTABLE SHELVES
- 0640.04 PLASTIC LAMINATE CLAD WALL CABINETS WITH ADJUSTABLE SHELVES
- 0640.38 1/2" PLASTIC LAMINATE CLAD PLYWOOD
- 0640.42 PLASTIC LAMINATE CLAD WARDROBE
- 0640.59 COUNTERTOP BRACKET
- 0640.66 PLASTIC LAMINATE CLAD NIGHTSTAND
- 0910.08 SOLID CORE WOOD DOOR
- 0840.02 ALUMINUM STOREFRONT DOOR
- 0920.23 5/8" MOLD AND MOISTURE RESISTANT GYPSUM BOARD
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0930.01 CERAMIC TILE
- 0930.10 METAL TILE TRIM
- 0960.13 4" RESILIENT BASE
- 1010.10 FREE-STANDING DISPLAY CASE
- 1020.16 STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (36" LONG)
- 1020.17 STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (42" LONG)
- 1020.20 SOAP DISPENSER (SURFACE-MOUNTED)
- 1020.23 STAINLESS STEEL SEMI-RECESSED TOILET PAPER DISPENSER
- 1020.30 STAINLESS STEEL SEMI-RECESSED PAPER TOWEL DISPENSER / TRASH RECEPTACLE
- 1020.32 STAINLESS STEEL FRAMED MIRROR
- 1020.35 ROBE / TOWEL HOOK
- 1230.25 STAINLESS STEEL SHOWER CURTAIN ROD WITH VINYL CURTAIN AND HOOKS
- 2240.01 QUARTZ SURFACE COUNTERTOP WITH SPLASH AS SHOWN
- 2240.03 WATER CLOSET, ORIENT FLUSH VALVE TOWARDS ACCESSIBLE SPACE AT ACCESSIBLE STALLS / RESTROOMS
- 2240.04 WALL-HUNG LAVATORY WITH CARRIER PORCELAIN LAVATORY
- 2240.19 WATER FOUNTAIN
- 2650.03 SURFACE-MOUNTED LIGHT FIXTURE
- 2650.04 SUSPENDED LIGHT FIXTURE
- 2650.09 UNDER/ OVER CABINET LIGHT
- 2650.23 PENDANT LIGHT FIXTURE



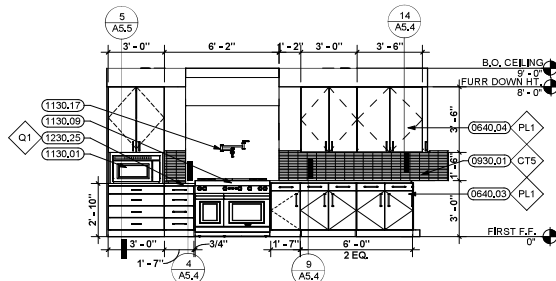
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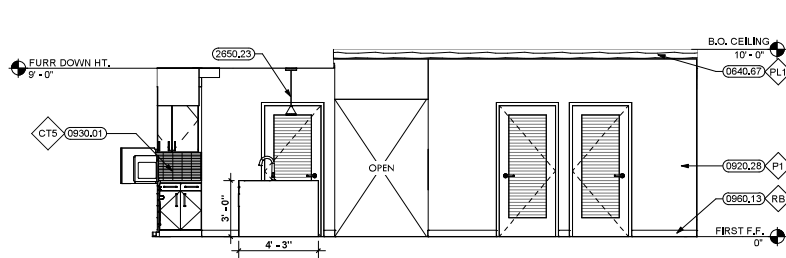
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A5.1
ENLARGED PLANS & INTERIOR ELEVATIONS

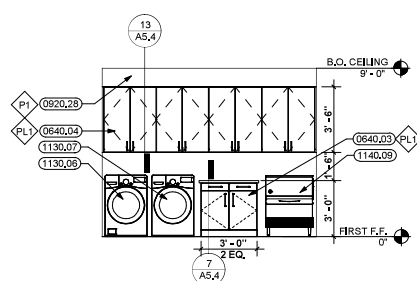
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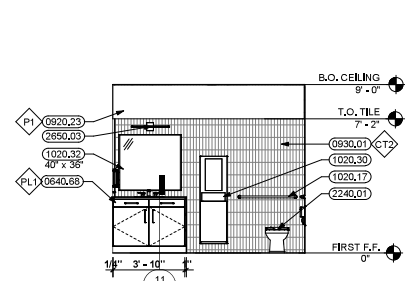
4 INT. ELEV. - KITCHEN (123)
1/4" = 1'-0"



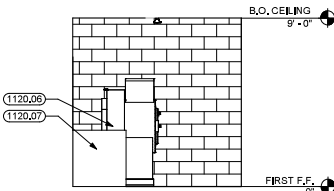
3 INT. ELEV. - KITCHEN (123)
1/4" = 1'-0"



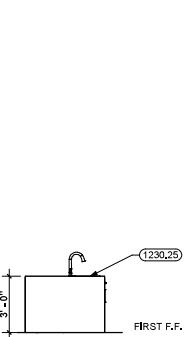
2 INT. ELEV. - UTILITY (121)
1/4" = 1'-0"



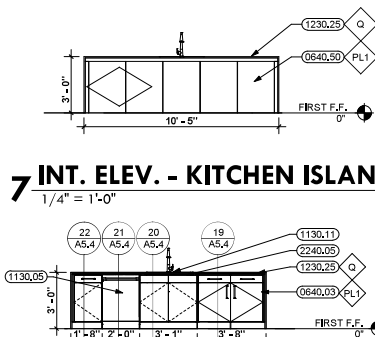
1 INT. ELEV. - RESTROOM (111)
1/4" = 1'-0"



10 INT. ELEV. - EXTRACTOR/DECON (130)
1/4" = 1'-0"

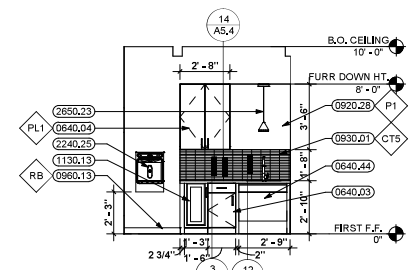


9 INT. ELEV. - KITCHEN ISLAND
1/4" = 1'-0"

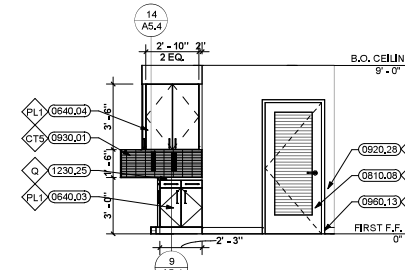


7 INT. ELEV. - KITCHEN ISLAND
1/4" = 1'-0"

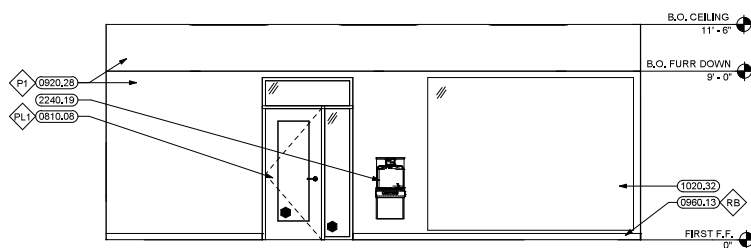
8 INT. ELEV. - KITCHEN ISLAND
1/4" = 1'-0"



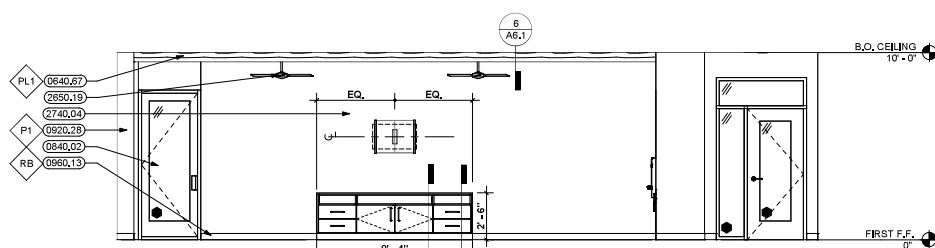
6 INT. ELEV. - KITCHEN (123)
1/4" = 1'-0"



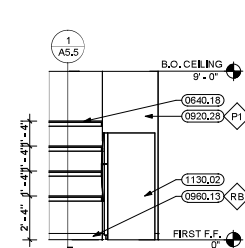
5 INT. ELEV. - KITCHEN (123)
1/4" = 1'-0"



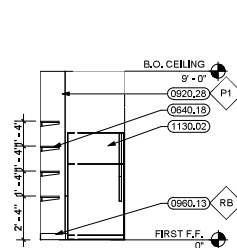
14 INT. ELEV. - EXERCISE (125)
1/4" = 1'-0"



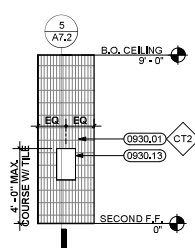
13 INT. ELEV. - DAYROOM (124)
1/4" = 1'-0"



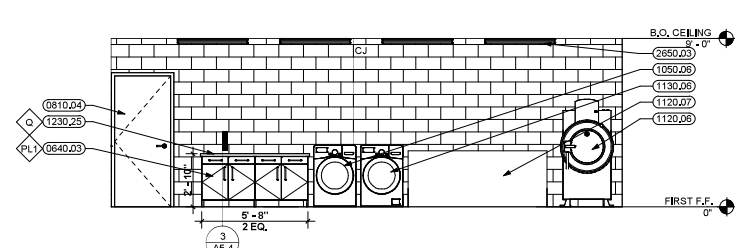
12 INT. ELEV. - PANTRY
1/4" = 1'-0"



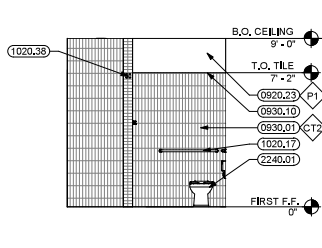
11 INT. ELEV. - PANTRY
1/4" = 1'-0"



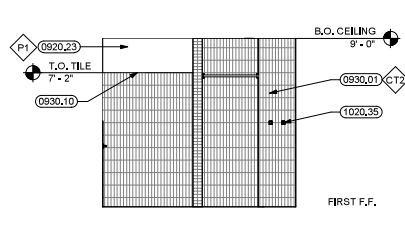
19 INT. ELEV. - SHOWER
1/4" = 1'-0"



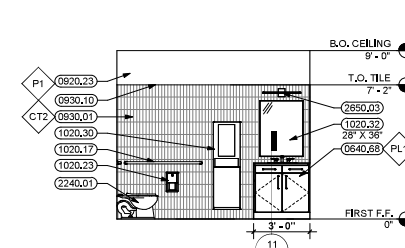
18 INT. ELEV. - EXTRACTOR/DECON (130)
1/4" = 1'-0"



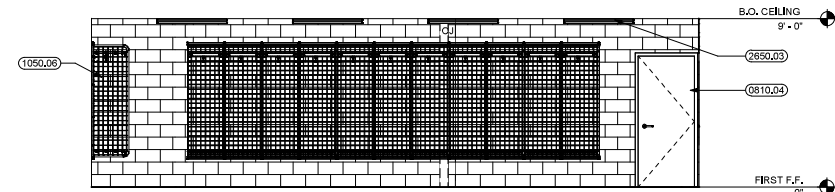
17 INT. ELEV. - DECON R.R. (129)
1/4" = 1'-0"



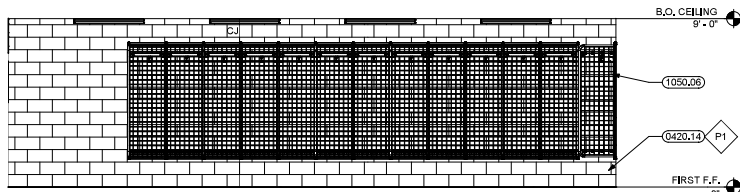
16 INT. ELEV. - DECON R.R. (129)
1/4" = 1'-0"



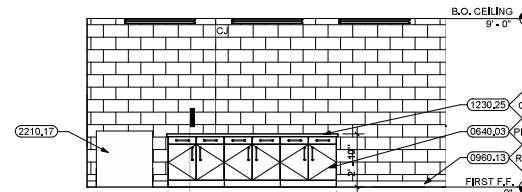
15 INT. ELEV. - DECON R.R. (129)
1/4" = 1'-0"



22 INT. ELEV. - BUNKER GEAR (131)
1/4" = 1'-0"



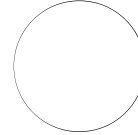
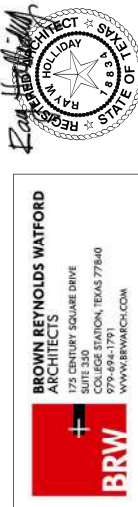
21 INT. ELEV. - BUNKER GEAR (131)
1/4" = 1'-0"



20 INT. ELEV. - SHOP (132)
1/4" = 1'-0"

KEYNOTES

- 0420.14 8" CONCRETE MASONRY UNITS
- 0640.03 PLASTIC LAMINATE CLAD BASE CABINETS WITH ADJUSTABLE SHELVES
- 0640.04 PLASTIC LAMINATE CLAD WALL CABINETS WITH ADJUSTABLE SHELVES
- 0640.18 ADJUSTABLE SHELVING
- 0640.44 3/4" PLASTIC LAMINATE CLAD PLYWOOD
- 0640.67 REMOVABLE ACCESS PANEL
- 0640.50 PLASTIC LAMINATE CLAD END PANEL
- 0640.67 PLASTIC LAMINATE CLAD FAUX BEAM
- 0640.68 PLASTIC LAMINATE VANITY WITH SHELVES
- 0810.04 HOLLOW METAL DOOR AND FRAME
- 0810.08 SOLID CORE WOOD DOOR
- 0640.02 ALUMINUM STOREFRONT DOOR
- 0920.23 5/8" MOLD AND MOISTURE RESISTANT GYPSUM BOARD
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0930.01 CERAMIC TILE
- 0930.10 METAL TILE TRIM
- 0930.13 PRE-FABRICATED SHOWER NICHE
- 0960.13 4" RESILIENT BASE
- 1020.17 STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (42" LONG)
- 1020.23 STAINLESS STEEL SEMI-RECESSED TOILET PAPER DISPENSER
- 1020.30 STAINLESS STEEL SEMI-RECESSED PAPER TOWEL DISPENSER / TRASH RECEPTACLE
- 1020.32 STAINLESS STEEL FRAMED MIRROR
- 1020.35 ROSE / TOWEL HOOK
- 1020.38 STAINLESS STEEL SHOWER CURTAIN ROD WITH VINYL CURTAIN AND HOOKS
- 1050.06 TURNOUT GEAR LOCKERS
- 1120.06 WASHER EXTRACTOR
- 1120.07 TURNOUT GEAR DRYING CABINET
- 1130.01 MICROWAVE
- 1130.02 REFRIGERATOR
- 1130.05 DISHWASHER
- 1130.06 WASHING MACHINE
- 1130.07 CLOTHES DRYER
- 1130.09 GAS RANGE
- 1130.11 FOOD DISPOSAL
- 1130.13 UNDER-COUNTER ICE MAKER
- 1130.17 POT FILLER
- 1140.09 ICE MACHINE
- 1230.25 QUARTZ SURFACE COUNTERTOP WITH SPLASH AS SHOWN
- 2210.17 AIR COMPRESSOR/TANK
- 2240.01 WATER CLOSET, ORIENT FLUSH VALVE TOWARDS ACCESSIBLE SPACE AT RESTROOMS
- 2240.05 STAINLESS STEEL UNDERMOUNT SINK
- 2240.19 WATER FOUNTAIN
- 2240.25 BOTTLE FILLER
- 2650.03 SURFACE-MOUNTED LIGHT FIXTURE
- 2650.19 CEILING FAN
- 2650.23 PENDANT LIGHT FIXTURE
- 2740.04 TELEVISION OR MONITOR



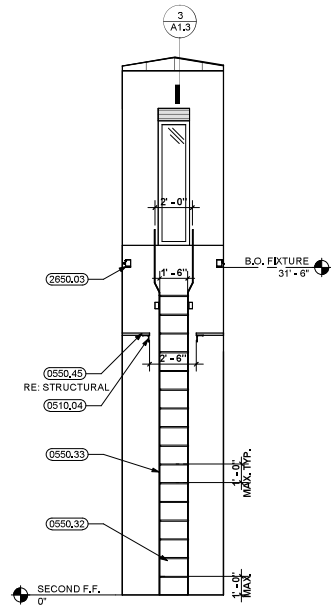
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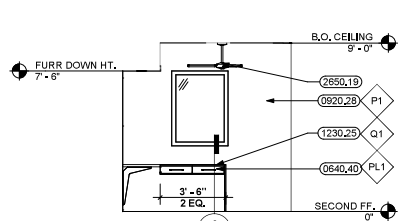
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A5.2
INTERIOR ELEVATIONS

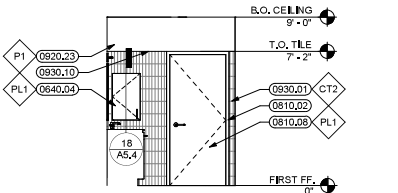
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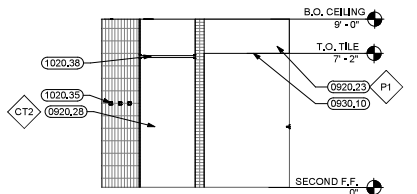
3 INT. ELEV. - LADDER
1/4" = 1'-0"



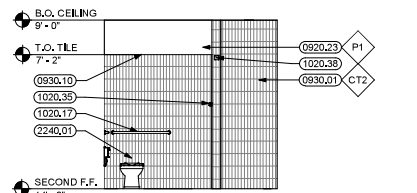
6 INT. ELEV. - SLEEPING (204)
1/4" = 1'-0"



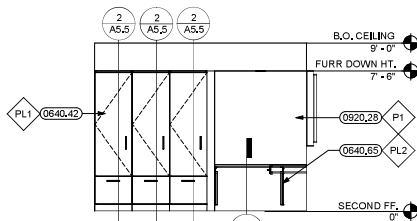
8 INT. ELEV. - RESTROOM (107)
1/4" = 1'-0"



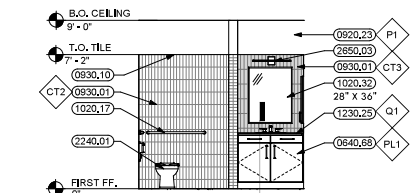
11 INT. ELEV. - RESTROOM (213)
1/4" = 1'-0"



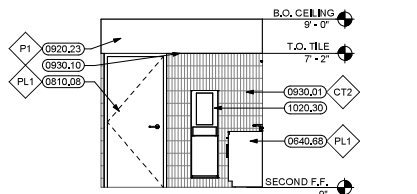
13 INT. ELEV. - RESTROOM (213)
1/4" = 1'-0"



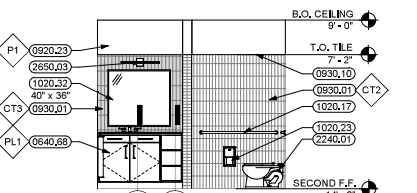
5 INT. ELEV. - SLEEPING (204)
1/4" = 1'-0"



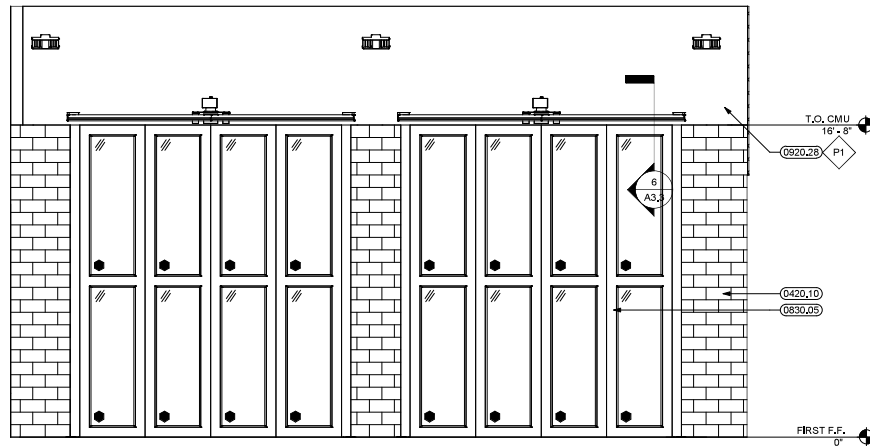
7 INT. ELEV. - RESTROOM (107)
1/4" = 1'-0"



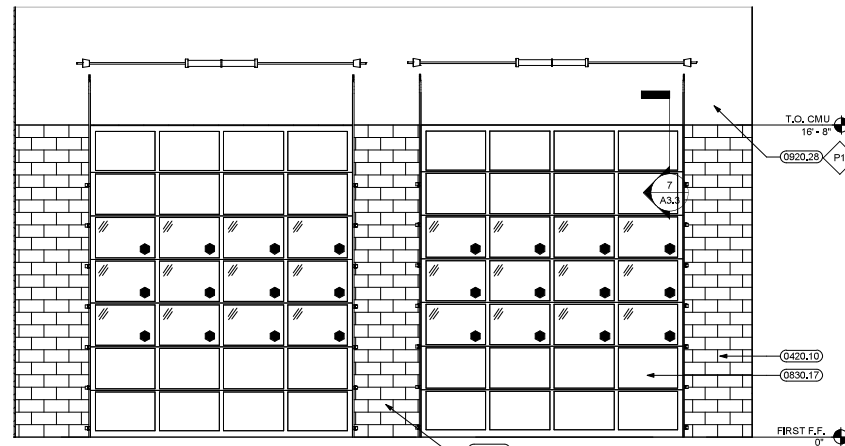
10 INT. ELEV. - RESTROOM (213)
1/4" = 1'-0"



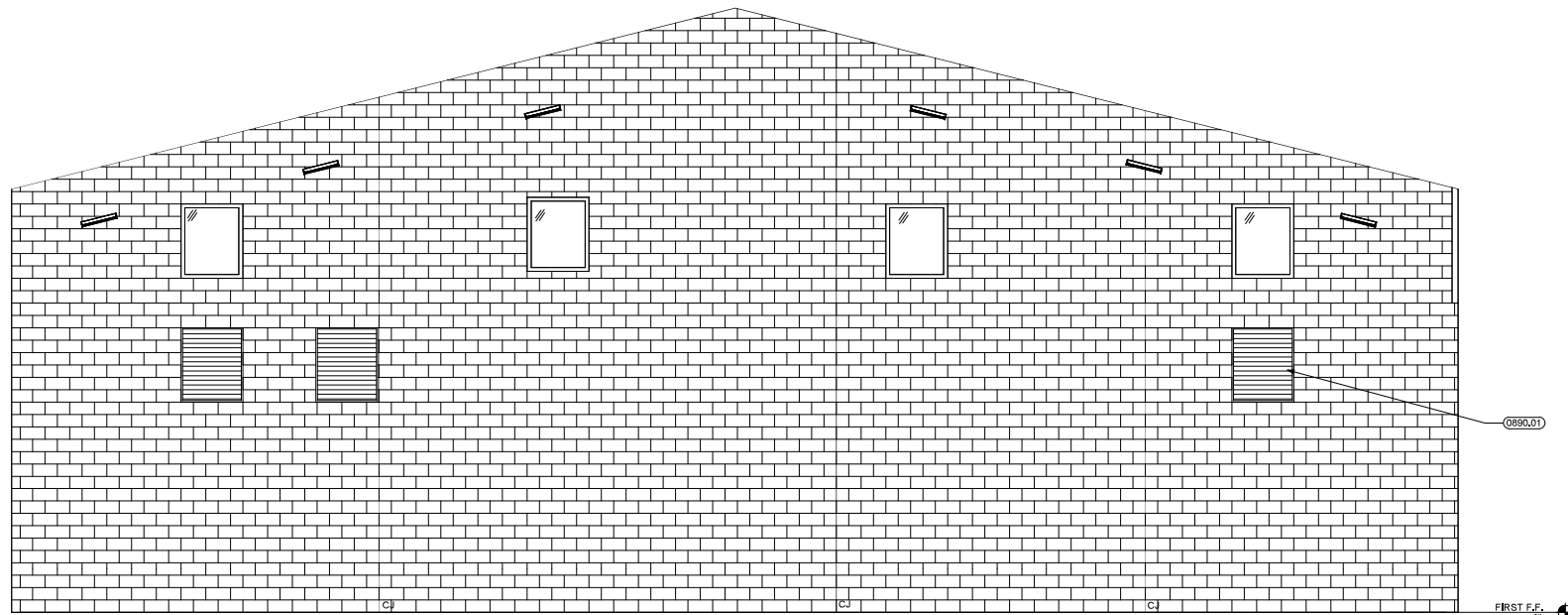
12 INT. ELEV. - RESTROOM (213)
1/4" = 1'-0"



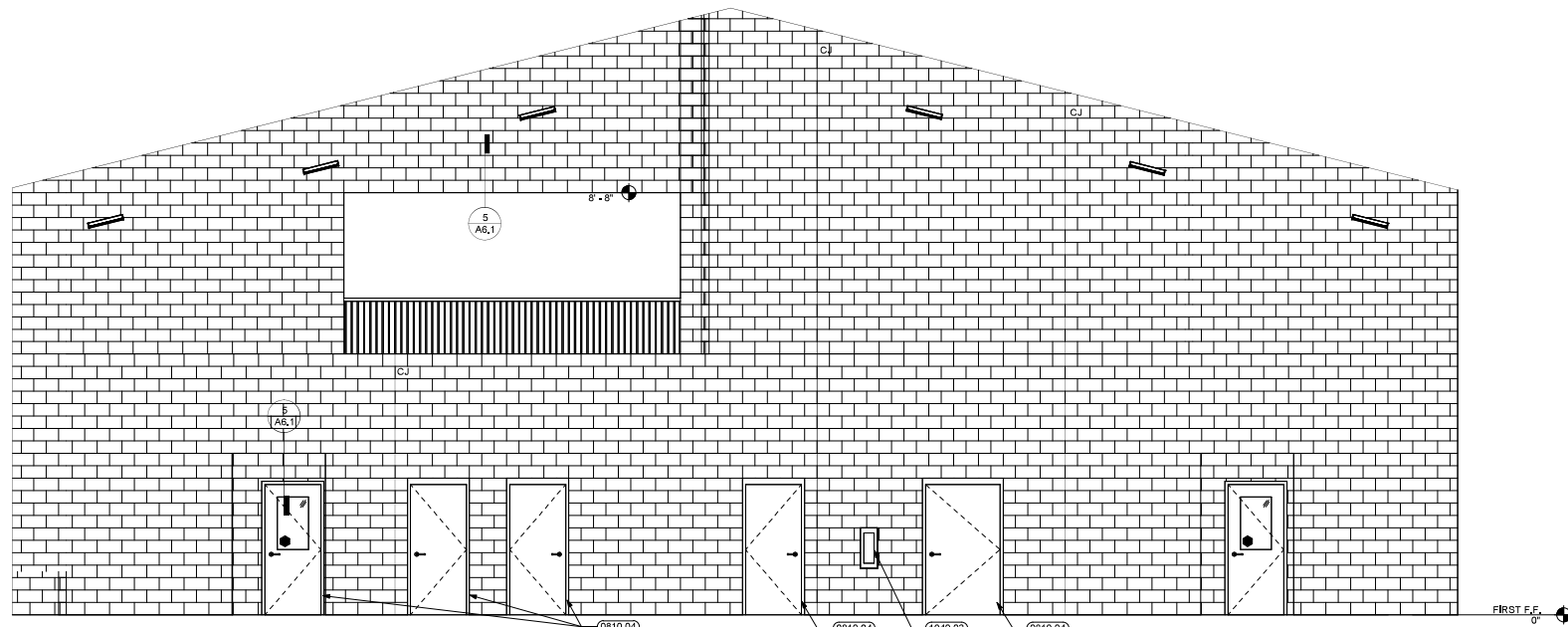
2 INT. ELEV. - APPARATUS BAY (134)
1/4" = 1'-0"



1 INT. ELEV. - APPARATUS BAY (134)
1/4" = 1'-0"



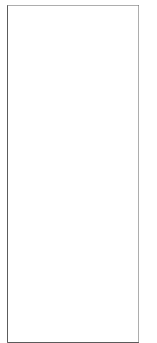
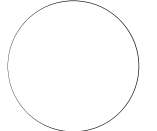
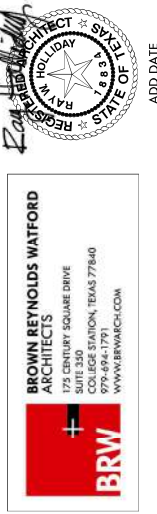
4 INT. ELEV. - APPARATUS BAY (134)
1/4" = 1'-0"



9 INT. ELEV. - APPARATUS BAY (134)
1/4" = 1'-0"

KEYNOTES

- 0420,10 4" CONCRETE MASONRY UNITS
- 0510,04 STEEL ANGLE (RE-STRUCTURAL)
- 0550,32 STEEL TREAD
- 0550,33 METAL LADDER
- 0550,45 METAL GRATING
- 0640,04 PLASTIC LAMINATE CLAD WALL CABINETS WITH ADJUSTABLE SHELVES
- 0640,40 PLASTIC LAMINATE CLAD DESK
- 0640,42 PLASTIC LAMINATE CLAD WARDROBE
- 0640,65 METAL WORK SURFACE SUPPORT
- 0640,68 PLASTIC LAMINATE VANITY WITH SHELVES
- 0810,02 HOLLOW METAL FRAME
- 0810,04 HOLLOW METAL DOOR AND FRAME
- 0810,08 SOLID CORE WOOD DOOR
- 0830,05 ELECTRIC OPERATED FOUR-FOLD DOOR
- 0830,17 UPWARD ACTING SECTIONAL DOOR
- 0890,01 PREFINISHED FIXED ALUMINUM LOUVER (WITH BRD SCREEN)
- 0920,23 5/8" MOLD AND MOISTURE RESISTANT GYPSUM BOARD
- 0920,28 5/8" GYPSUM BOARD (TYPE X)
- 0930,01 CERAMIC TILE
- 0930,10 METAL TILE TRIM
- 1020,17 STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (42" LONG)
- 1020,23 STAINLESS STEEL SEMI-RECESSED TOILET PAPER DISPENSER
- 1020,30 STAINLESS STEEL SEMI-RECESSED PAPER TOWEL DISPENSER / TRASH RECEPTACLE
- 1020,32 STAINLESS STEEL FRAMED MIRROR
- 1020,35 ROBE / TOWEL HOOK
- 1020,38 STAINLESS STEEL SHOWER CURTAIN ROD WITH VINYL CURTAIN AND HOOKS
- 1040,03 FIRE EXTINGUISHER AND SEMI-RECESSED CABINET
- 1230,25 QUARTZ SURFACE COUNTERTOP WITH SPLASH AS SHOWN
- 2240,01 WATER CLOSET, ORIENT FLUSH VALVE TOWARDS ACCESSIBLE SPACE AT ACCESSIBLE STALLS / RESTROOMS
- 2240,26 TRUCK FILL
- 2650,03 SURFACE-MOUNTED LIGHT FIXTURE
- 2650,19 CEILING FAN



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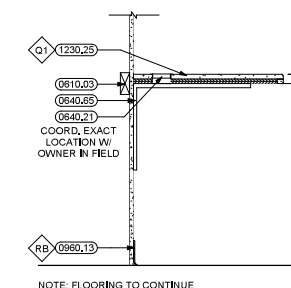
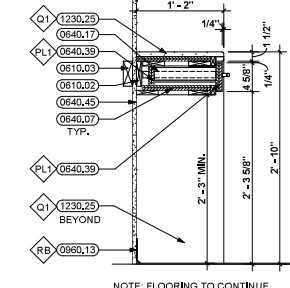
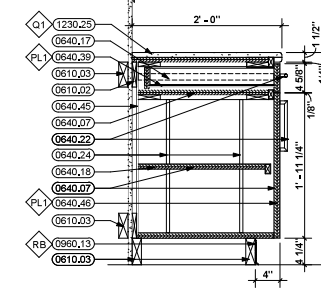
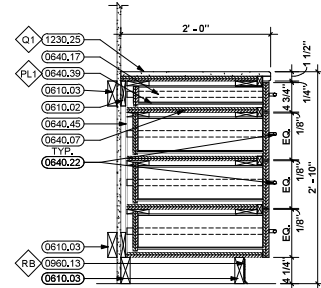
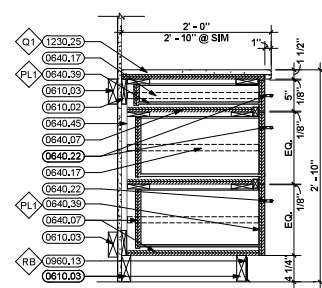
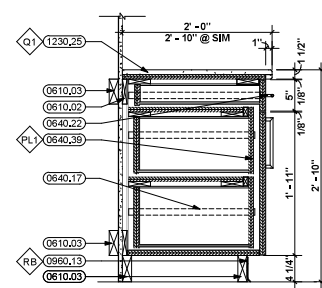


NO.	REVISION	DATE

A5.3

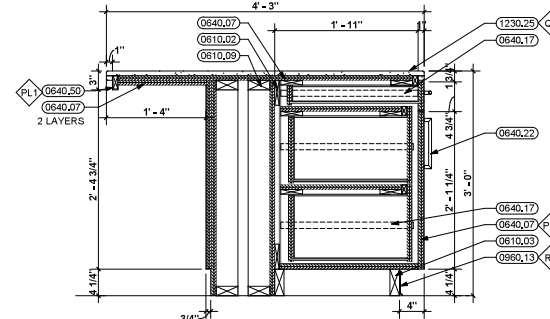
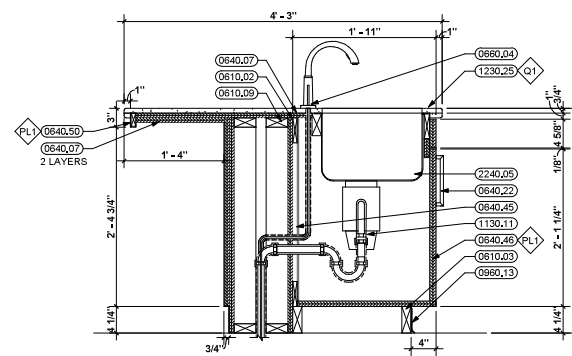
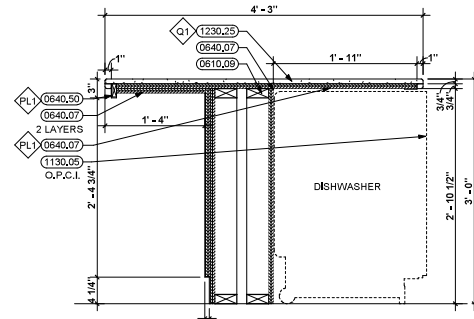
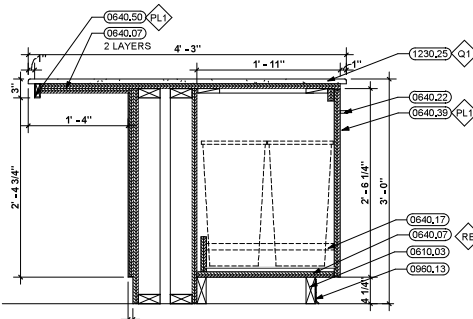
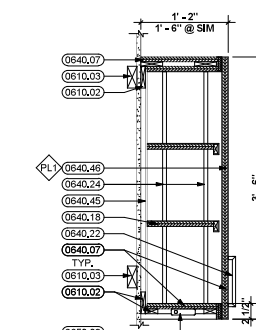
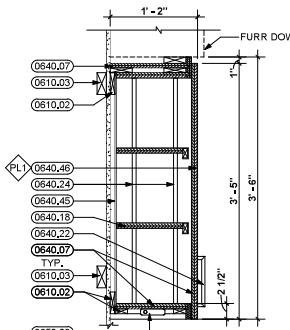
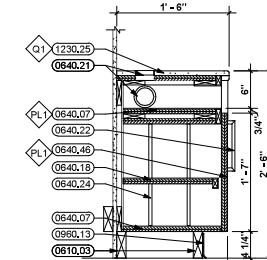
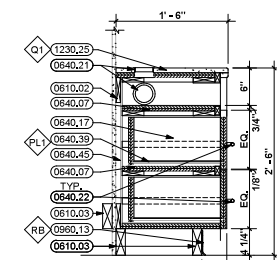
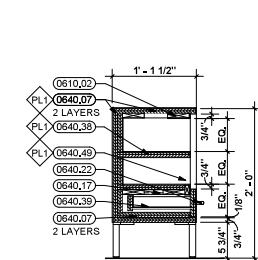
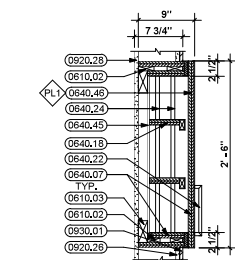
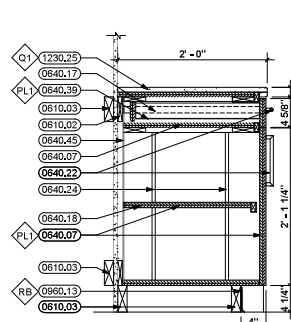
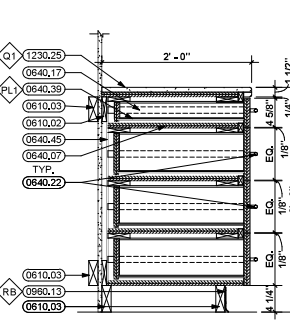
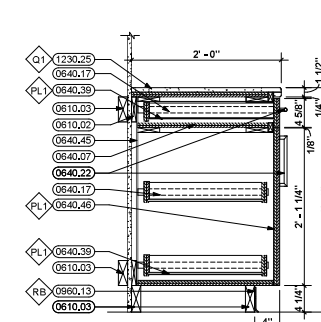
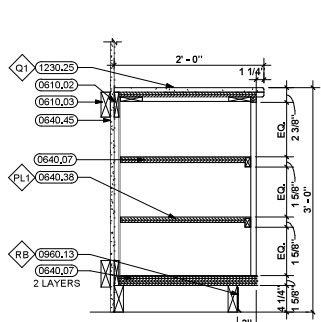
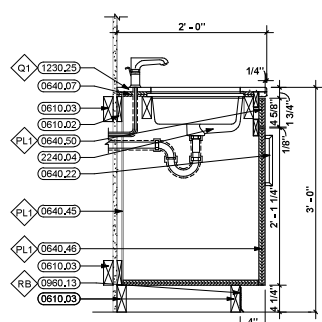
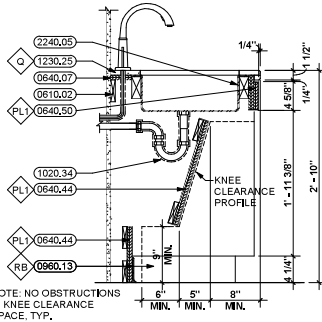
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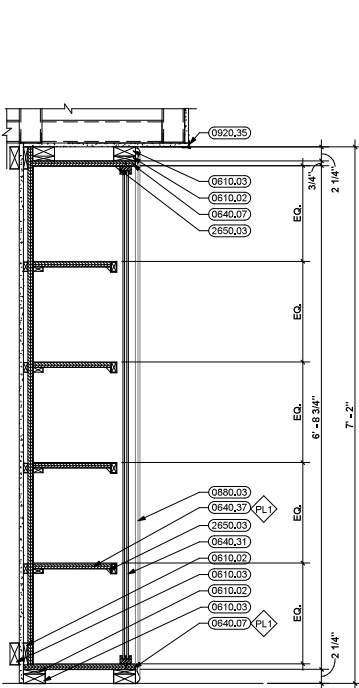
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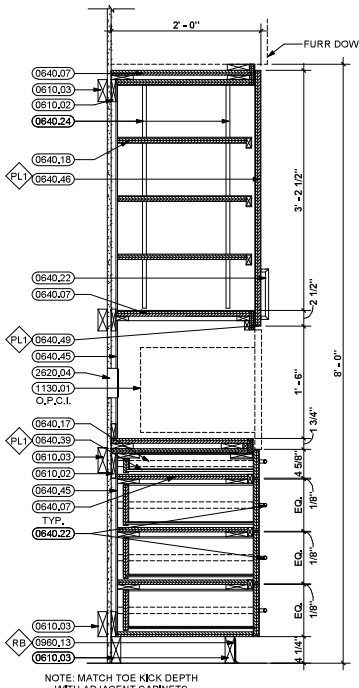
KEYNOTES

0610,02	1X WOOD BLOCKING
0610,03	2X WOOD BLOCKING
0610,09	2 X 4 WOOD STUDS AT 16" O.C.
0640,07	3/4" PLYWOOD
0640,17	DRAWER GLIDE
0640,21	ADJUSTABLE SHELVING
0640,28	VUE GROMMET
0640,32	CABINET PULLS
0640,24	ADJUSTABLE METAL SHELF STANDARDS, PROVIDE BLOCKING IN WALL AS REQUIRED
0640,38	12" PLASTIC LAMINATE CLAD PLYWOOD
0640,40	1/2" PLASTIC LAMINATE CLAD PLYWOOD
0640,44	1/2" PLASTIC LAMINATE CLAD PLYWOOD REMOVE TOP ACCESS PANEL
0640,45	3/4" HARDWOOD BOTTOM
0640,46	3/4" PLASTIC LAMINATE CLAD PLYWOOD REMOVE TOP ACCESS PANEL
0640,48	1/4" HARDWOOD CABINET BACK
0640,49	3/4" PLASTIC LAMINATE CLAD PLYWOOD CABINET DOOR
0640,49	COAT OR BACKPACK HOOK
0640,50	PLASTIC LAMINATE CLAD END PANEL
0640,65	METAL WORK SURFACE SUPPORT
0660,04	FIBER-REINFORCED PLASTIC PANEL TRIM
0620,26	1/2" GEMENTHICUS BACKER BOARD
0620,28	1/8" GEMENTHICUS BOARD (TYPE X)
0930,01	CERAMIC TILE
0960,13	4" RESILIENT BASE
1020,34	VINY-COATED FIRING WARP
1330,05	GRINDWASH
1330,11	FOOD DISPOSAL
1320,35	QUARTZ SURFACE COUNTERTOP WITH SPLASH BACK SHOWN
2240,04	PORCELAIN LAVATORY
2240,05	STAINLESS STEEL UNDERMOUNT SINK UNDER / OVER CABINET LIGHT

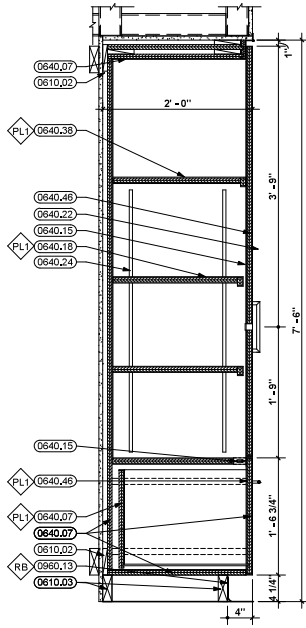




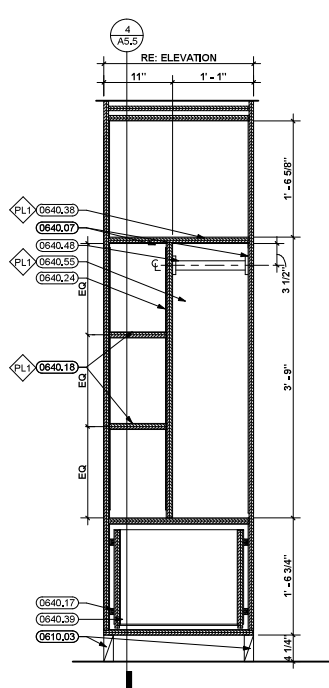
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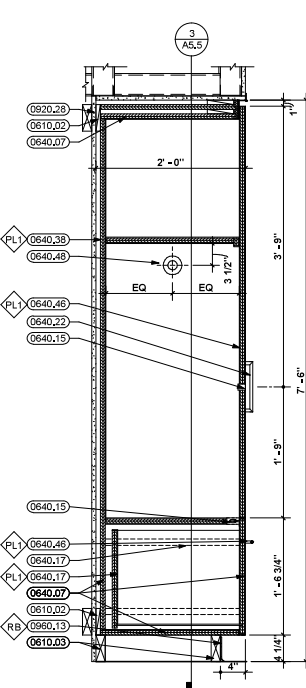
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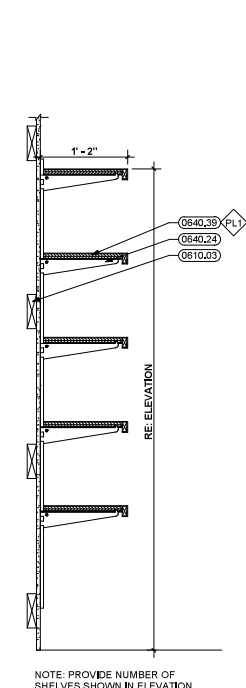
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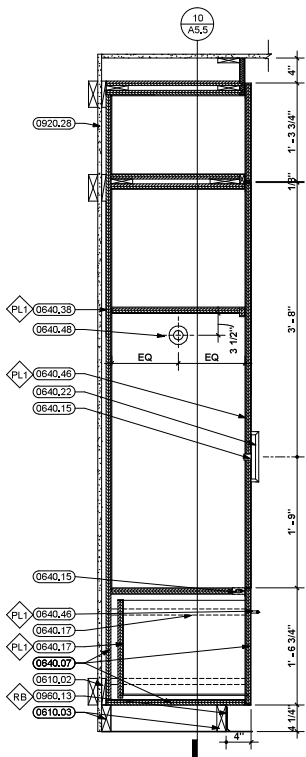
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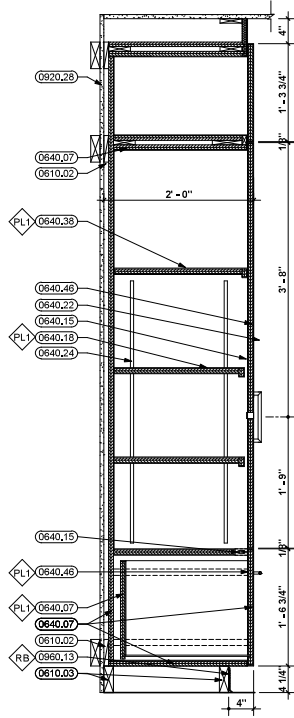
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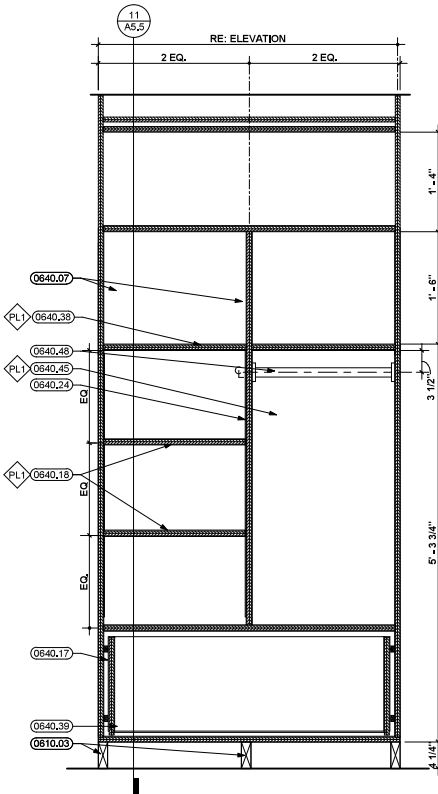
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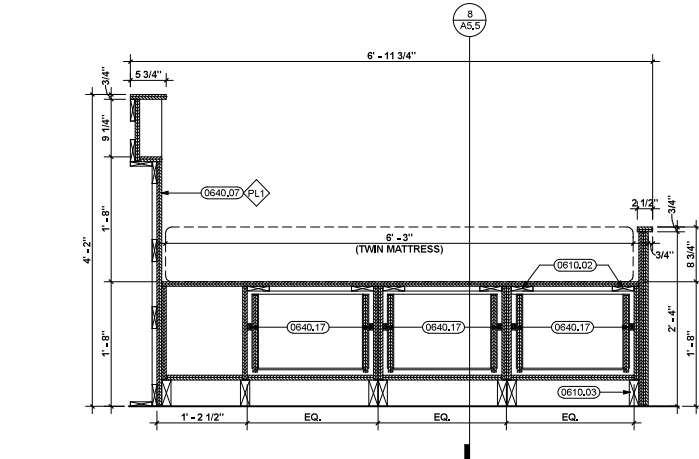
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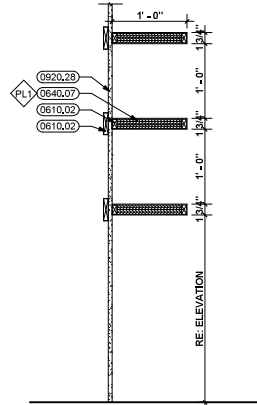
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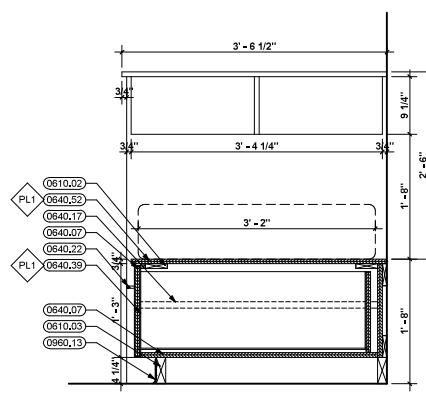
10 MILLWORK DETAIL
1" = 1'-0"



7 MILLWORK DETAIL
1" = 1'-0"



9 MILLWORK DETAIL
1" = 1'-0"



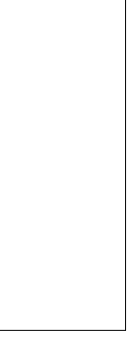
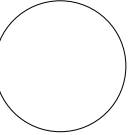
8 MILLWORK DETAIL
1" = 1'-0"

KEYNOTES

- 0610,02 1X WOOD BLOCKING
- 0610,03 2X WOOD BLOCKING
- 0640,07 3/4" PLYWOOD
- 0640,15 CABINET CAM LOCK
- 0640,17 DRAWER GLIDE
- 0640,18 ADJUSTABLE SHELVING
- 0640,22 CABINET PULLS
- 0640,24 ADJUSTABLE METAL SHELF STANDARDS, PROVIDE BLOCKING IN WALL AS REQUIRED
- 0640,31 1/4" CLEAR TEMPERED GLASS BYPASS SLIDING DOORS AND ALUMINUM TRACK
- 0640,37 PLASTIC LAMINATE CLAD FIXED SHELF
- 0640,38 1/2" PLASTIC LAMINATE CLAD PLYWOOD
- 0640,39 3/4" PLASTIC LAMINATE CLAD PLYWOOD DRAWER WITH 1/4" HARDWOOD BOTTOM
- 0640,45 1/4" HARDWOOD CABINET BACK
- 0640,46 3/4" PLASTIC LAMINATE CLAD PLYWOOD CABINET DOOR
- 0640,48 HEAVY DUTY COAT ROD
- 0640,49 COAT OR BACKPACK HOOK
- 0640,52 3/4" PLASTIC LAMINATE CLAD PLYWOOD
- 0640,55 1/4" PLASTIC LAMINATE CLAD CABINET BACK, FULLY TEMPERED
- 0880,03 GLASS TYPE MG#1C (MONOLITHIC CLEAR, FULLY TEMPERED)
- 0920,28 5/8" GYPSUM BOARD (TYPE X)
- 0920,35 CORNER BEAD, TYPICAL
- 0960,13 4" RESILIENT BASE
- 1130,01 MICROWAVE
- 2620,04 ELECTRICAL OUTLET
- 2650,03 SURFACE-MOUNTED LIGHT FIXTURE



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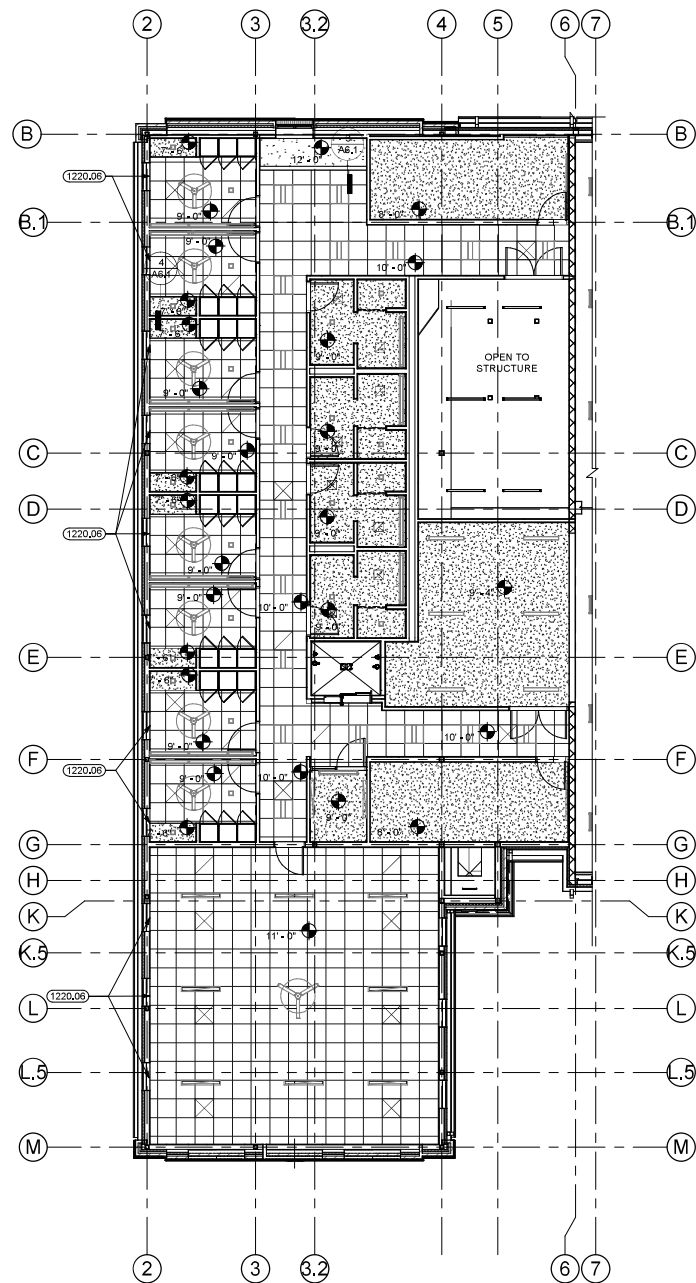
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CHECKED BY JD, RM, MW
BRW PROJECT NUMBER 223136.00



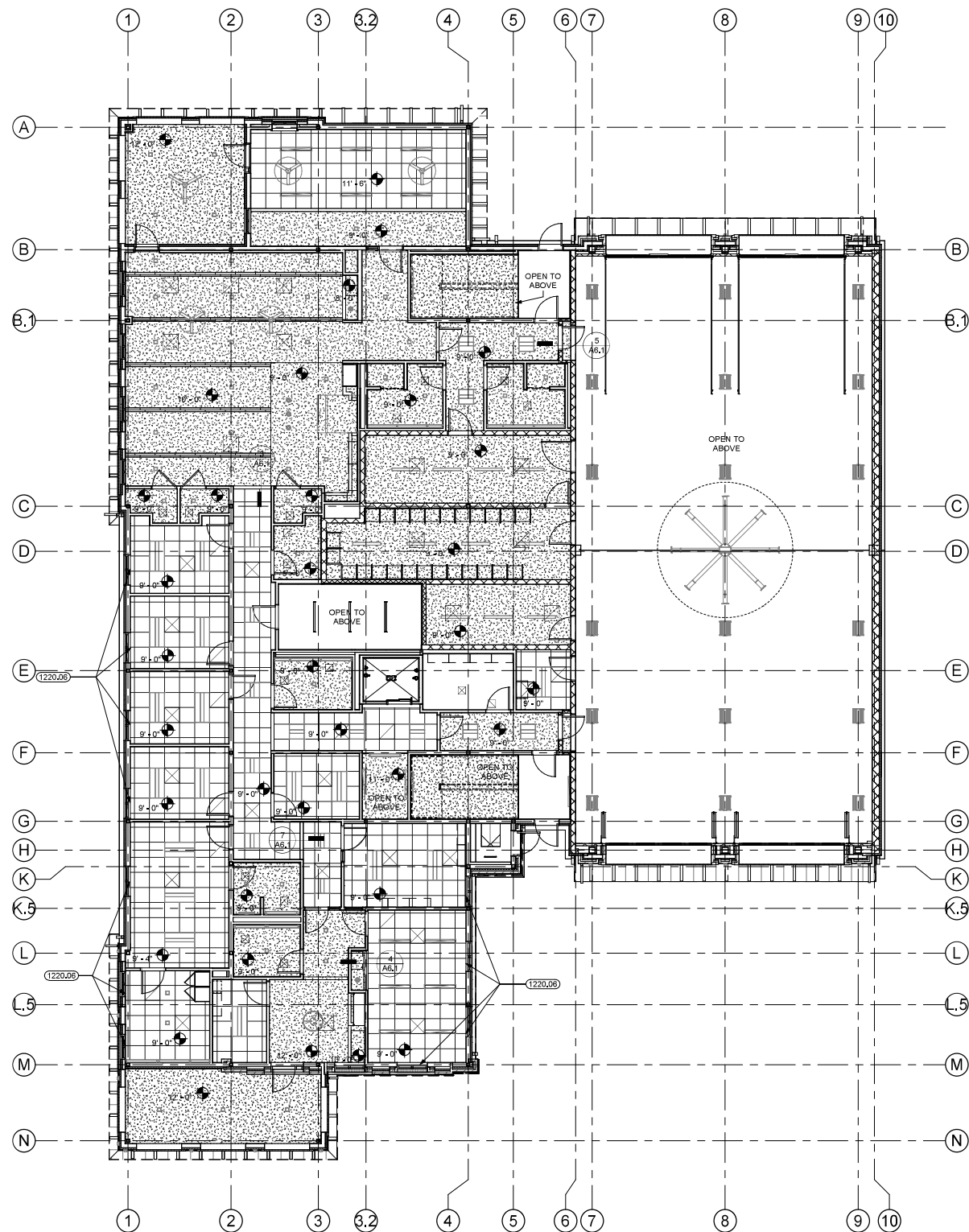
NO.	REVISION	DATE

A5.5
MILLWORK DETAILS

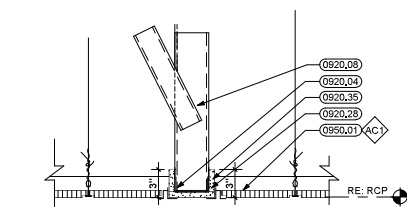
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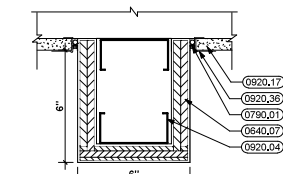
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1/8" = 1'-0"



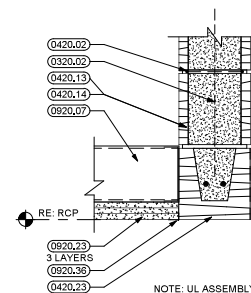
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1/8" = 1'-0"



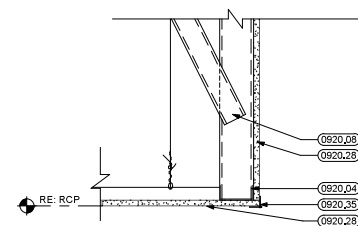
7 CEILING DETAIL
1 1/2" = 1'-0"



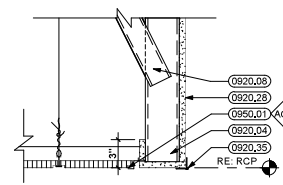
6 CEILING DETAIL
3" = 1'-0"



5 CEILING DETAIL
1 1/2" = 1'-0"



4 CEILING DETAIL
1 1/2" = 1'-0"



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

KEYNOTES

- 0320.02 STEEL REINFORCING
- 0420.02 CONCRETE MASONRY UNIT HORIZONTAL REINFORCING
- 0420.13 8" CONCRETE MASONRY UNITS
- 0420.14 8" CONCRETE MASONRY UNITS
- 0640.07 3/4" PLYWOOD
- 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
- 0920.04 3 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
- 0920.07 6" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
- 0920.08 STUD BRACE AT 4'-0" O.C. MAX.
- 0920.17 5/8" GYPSUM BOARD ON METAL SUSPENSION SYSTEM
- 0920.23 5/8" MOLD AND MOISTURE RESISTANT GYPSUM BOARD
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0920.35 CORNER BEAD, TYPICAL
- 0920.36 J-MOULD, TYPICAL
- 0950.01 SUSPENDED ACOUSTICAL LAY-IN TILE
- 1220.06 MANUAL WINDOW SHADE

REFLECTED CEILING PLAN LEGEND

CEILING	
AC	ACOUSTICAL CEILING
AC1	ACOUSTICAL CEILING TILE 24"x24" SUSPENDED COLOR: WHITE
GYPSUM BOARD ON METAL SUPPORT SYSTEM REF. FINISH PLAN FOR FINISH	
CEILING FIXTURES AND EQUIPMENT RE: ELECTRICAL LIGHT FIXTURE SCHEDULE	
	SUPPLY AIR REGISTER RE: MECHANICAL
	RETURN AIR GRILLE RE: MECHANICAL
	DECORATIVE PENDANT
	PENDANT
	DOWNLIGHT RECESSED
	2 X 4 LED
	2 X 2 LED
	LINEAR RECESSED FIXTURE
	SUSPENDED LINEAR
	HIGH-BAY LIGHT FIXTURE
	CEILING FAN
	14' HVLS FAN

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ADD DATE

223136.00

APRIL 24, 2024

SD, SP, LG, CD, JD

JD, RH, MW

BRW PROJECT NUMBER

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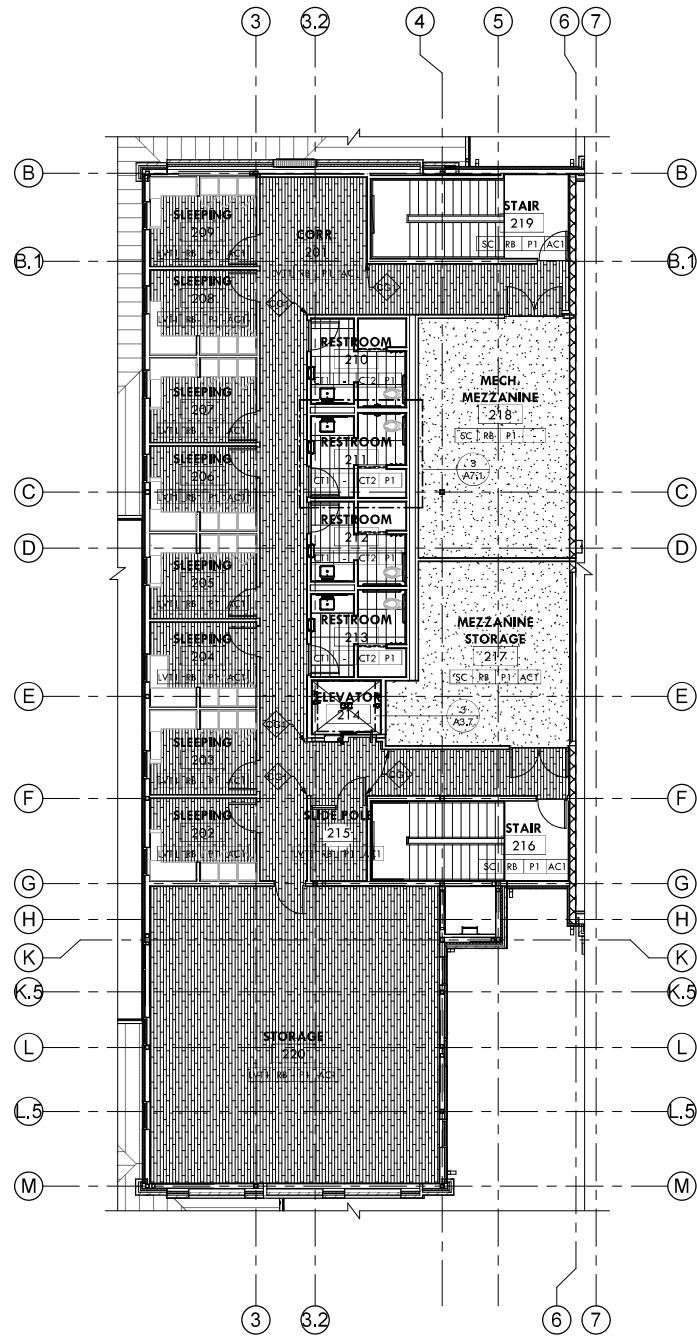
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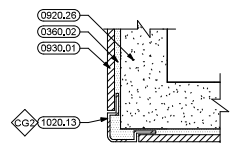
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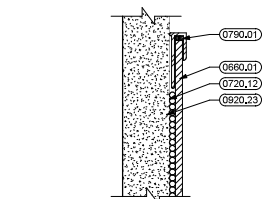
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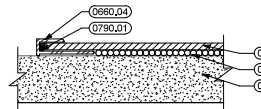
2 SECOND FLOOR FINISH PLAN
1/8" = 1'-0"



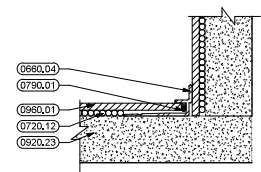
8 TILE TRIM DETAIL
12" = 1'-0"



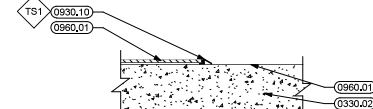
9 FRP TRIM DETAIL
12" = 1'-0"



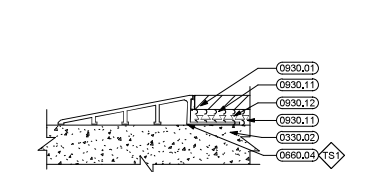
6 FRP TRIM DETAIL
12" = 1'-0"



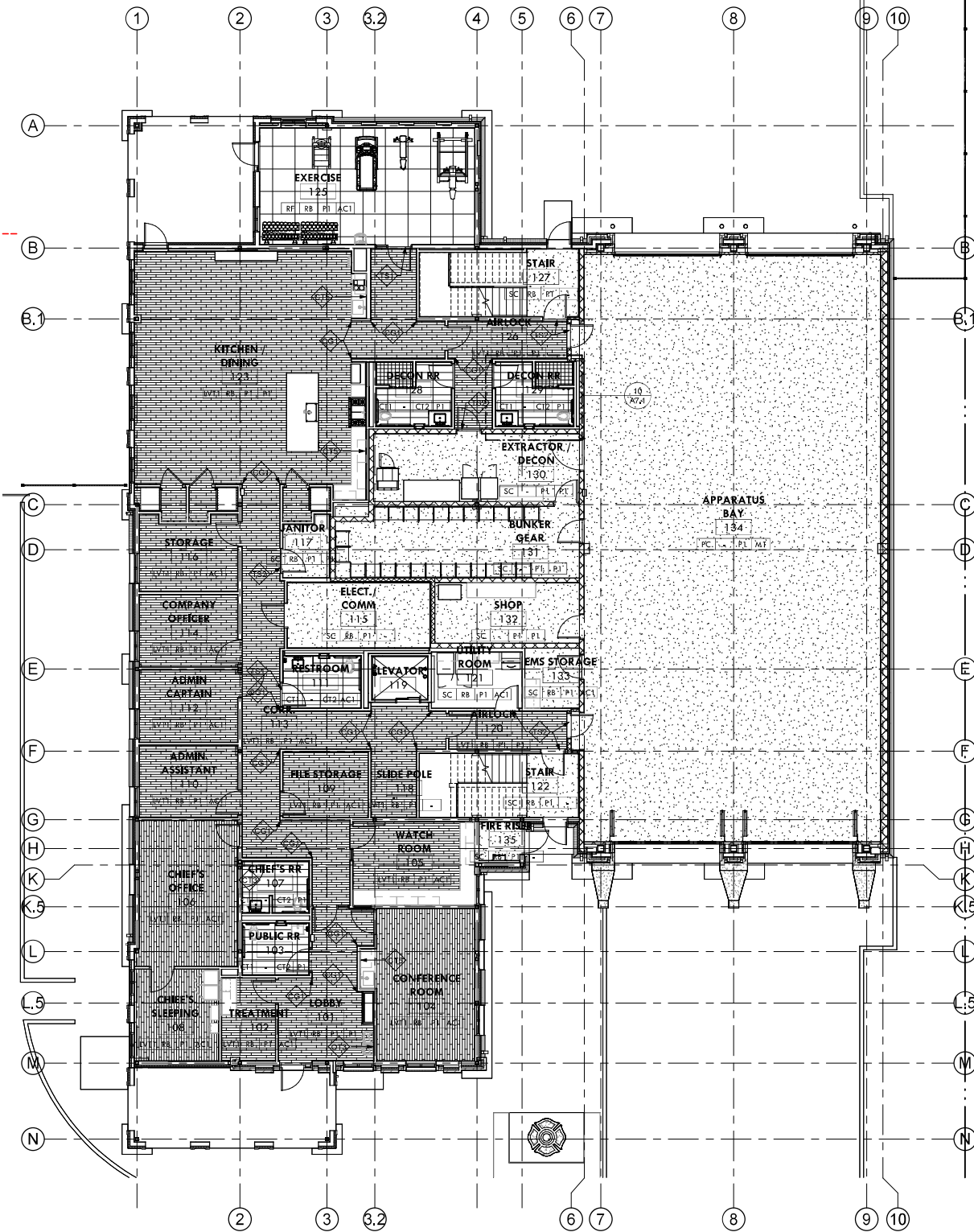
7 FRP TRIM DETAIL
12" = 1'-0"



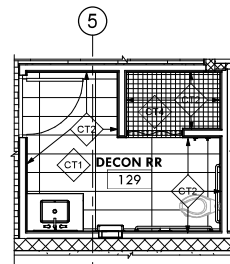
4 TYP. TRANSITION DETAIL
1 1/2" = 1'-0"



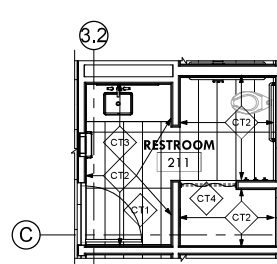
5 TILE TRANSITION DETAIL
6" = 1'-0"



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



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



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

KEYNOTES

0330.02	CONCRETE SLAB
0360.02	CEMENT GROUT
0660.01	FIBER-REINFORCED PLASTIC PANEL
0720.12	FIBER-REINFORCED PLASTIC PANEL TRIM
0720.12	CONTINUOUS ADHESIVE BASE COAT
0790.01	SEALANT WITH BACKER ROD AS REQUIRED
0920.23	5/8" MOLD AND MOISTURE RESISTANT GYPSUM BOARD
0920.26	5/8" CEMENTITIOUS BACKER BOARD
0930.01	CERAMIC TILE
0930.10	METAL TILE TRIM
0930.11	LINEAR SLOT DRAIN (PROVIDE 1'-2" WIDER THAN OPEN SIDE OF SHOWER, AND WITH METAL TILE TRANSITIONS AT PERIMETER)
0930.12	PRE-FABRICATED SHOWER TRAY BASE
0960.01	FLOORING AS SCHEDULED
1020.13	CORNER GUARD

FINISH LEGEND

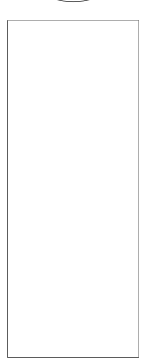
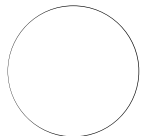
ROOM NAME	ROOM NAME DESIGNATION & NUMBER
101A	
CP1 RB1 P1 AC1	CEILING FINISH WALL FINISH BASE FINISH FLOOR FINISH
PATTERN	DESCRIPTION
AC	AC - ACOUSTICAL CEILING TILE
AC1	AC1: ARMSTRONG #1774 "DUNE" 24" X 24" REGULAR TILE COLOR: WHITE
CG	CG - CORNER GUARD
CG1	CG1: FULL HEIGHT CORNER GUARD FULL WALL HEIGHT STAINLESS STEEL
CG2	CG2: METAL TRANSITION (TILE/TILE) SCHLUTER, ECKE-E COLOR: SATIN ANODIZED ALUM. (AE)
CT	CT - CERAMIC TILE
CT1	CT1: CERAMIC FLOOR TILE PLATFORM SURFACES VENUE 12" X 24" COLOR: SAN MARCO
CT2	CT2: CERAMIC WALL TILE PLATFORM SURFACES COLORAZZO GLOSSY 2.3" X 8.4" COLOR: AVORIO
CT3	CT3: CERAMIC WALL TILE PLATFORM SURFACES COLORAZZO GLOSSY 2.3" X 8.4" COLOR: SALVA
CT4	CT4: CERAMIC FLOOR TILE - SHOWER PLATFORM SURFACES VENUE 2' X 2' MOSAIC COLOR: SAN MARCO
CT5	CT5: CERAMIC ACCENT TILE DALTILE ARTCRAFTED GLOSSY 1" X 8" MOSAIC COLOR: ALOE AC25
LVT	LVT - LUXURY VINYL TILE
LVT1	LVT1: LUXURY VINYL TILE TARKETT ID LATTITUDE WOOD COLOR: 3307 EUROPEAN CHERRY
M	M - MISC. METALS
M1	M1: EXPOSED STRUCTURAL STEEL AND HOLLOW METAL DOORS AND FRAMES SW7069 "IRON ORE"
PC	PC: DIAMOND POLISHED CONCRETE DYE COLOR AS SELECTED BY ARCHITECT
P	P - PAINT
P1	P1: CEILING, WALL SW7005 "PURE WHITE"
P2	P2: DOORS @ FRAMES SHERWIN WILLIAMS SW7069 "IRON ORE"
PL	PL - PLASTIC LAMINATE
PL1	PL1: PLASTIC LAMINATE CLAD MILLWORK WILSONART COLOR: #7937 "RIVER CHERRY"
Q	Q - SOLID SURFACE QUARTZ
Q1	Q1: QUARTZ COUNTERTOP WILSONART QUARTZ SELECT COLOR: Q6023 "FROZEN"
RB	RB: RESILIENT BASE ROPPE 4" VINYL WALL BASE COLOR: #110 "BLACK BROWN"
RF	RF - RUBBER FLOORING
RF1	RF1: RUBBER FLOOR TILES ROPPE, RUFLEX SPARTUS 10MM, 27" X 27" TILE COLOR: NATURAL
SC	SC: SEALED CONCRETE CLEAR CONCRETE SEALER
TS	TS - TRANSITION STRIP
TS1	TS1: METAL TRANSITION STRIP SCHLUTER, RENOU BRUSHED STAINLESS STEEL
TS2	TS2: METAL TRANSITION STRIP SCHLUTER, VINPROU BRUSHED CHROME

NOTES:

- ALL WOOD DOORS TO BE STAINED WHITE MAPLE. GYPSUM BOARD CEILINGS ARE TO BE FINISH P1. U.N.O.
- PROVIDE FLOOR LEVELING COMPOUND UNDER FINISH FLOORING AS REQUIRED
- LINE OF TRANSITION FROM DIAMOND POLISHED TO SEALED CONCRETE SHALL BE A STRAIGHT SAWCUT JOINT. LOCATED SO THAT SEALED CONCRETE IS NOT VISIBLE BELOW CLOSED DOOR FROM THE DIAMOND POLISHED CONCRETE SIDE OF DOOR. TYP. PROVIDE CONTROL JOINTS AT CONCRETE SLAB AS REQUIRED AND AT LOCATIONS SHOWN ON FINISH PLAN.
- PROVIDE EPOXY PAINT AT ALL INTERIOR PAINTED CMU.



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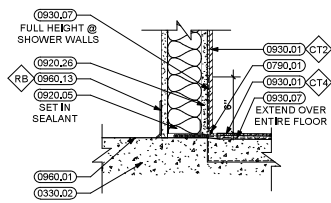


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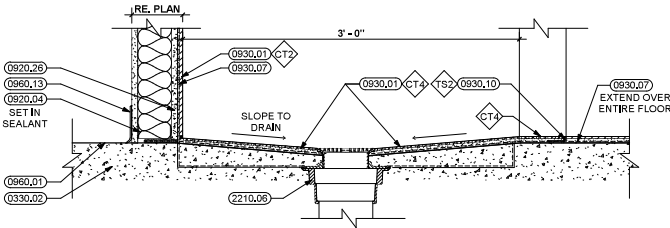
KINGSVILLE FIRE STATION NO. 3
2602 S 6TH ST.
KINGSVILLE, TX 78363

NO.	REVISION	DATE

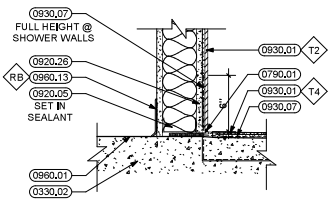
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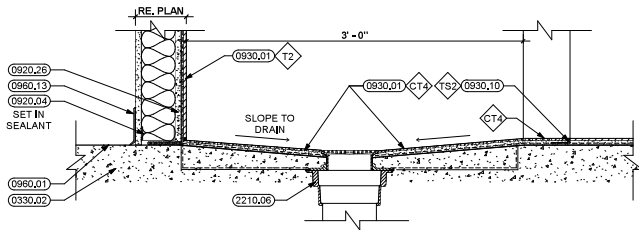
4 TILE DETAIL - SECOND FLOOR
1 1/2" = 1'-0"



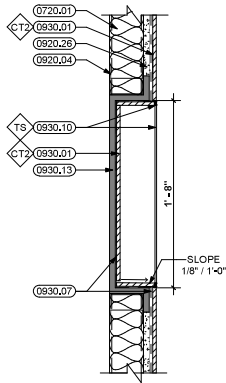
3 TILE DETAIL - SECOND FLOOR
1 1/2" = 1'-0"



2 TILE DETAIL - FIRST FLOOR
1 1/2" = 1'-0"



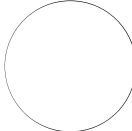
1 TILE DETAIL - FIRST FLOOR
1 1/2" = 1'-0"



5 SHOWER NICHE
1 1/2" = 1'-0"

- KEYNOTES**
- 0330.02 CONCRETE SLAB
 - 0720.01 3 1/2" BATT INSULATION
 - 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
 - 0920.04 3 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
 - 0920.05 4" METAL STUDS AT 16" O.C.
 - 0920.26 5/8" CEMENTITIOUS BACKER BOARD
 - 0930.01 CERAMIC TILE
 - 0930.07 TILE WATERPROOFING MEMBRANE
 - 0930.10 METAL TILE TRIM
 - 0930.13 PRE-FABRICATED SHOWER NICHE
 - 0960.01 FLOORING AS SCHEDULED
 - 0960.13 4" RESILIENT BASE
 - 2210.06 FLOOR DRAIN

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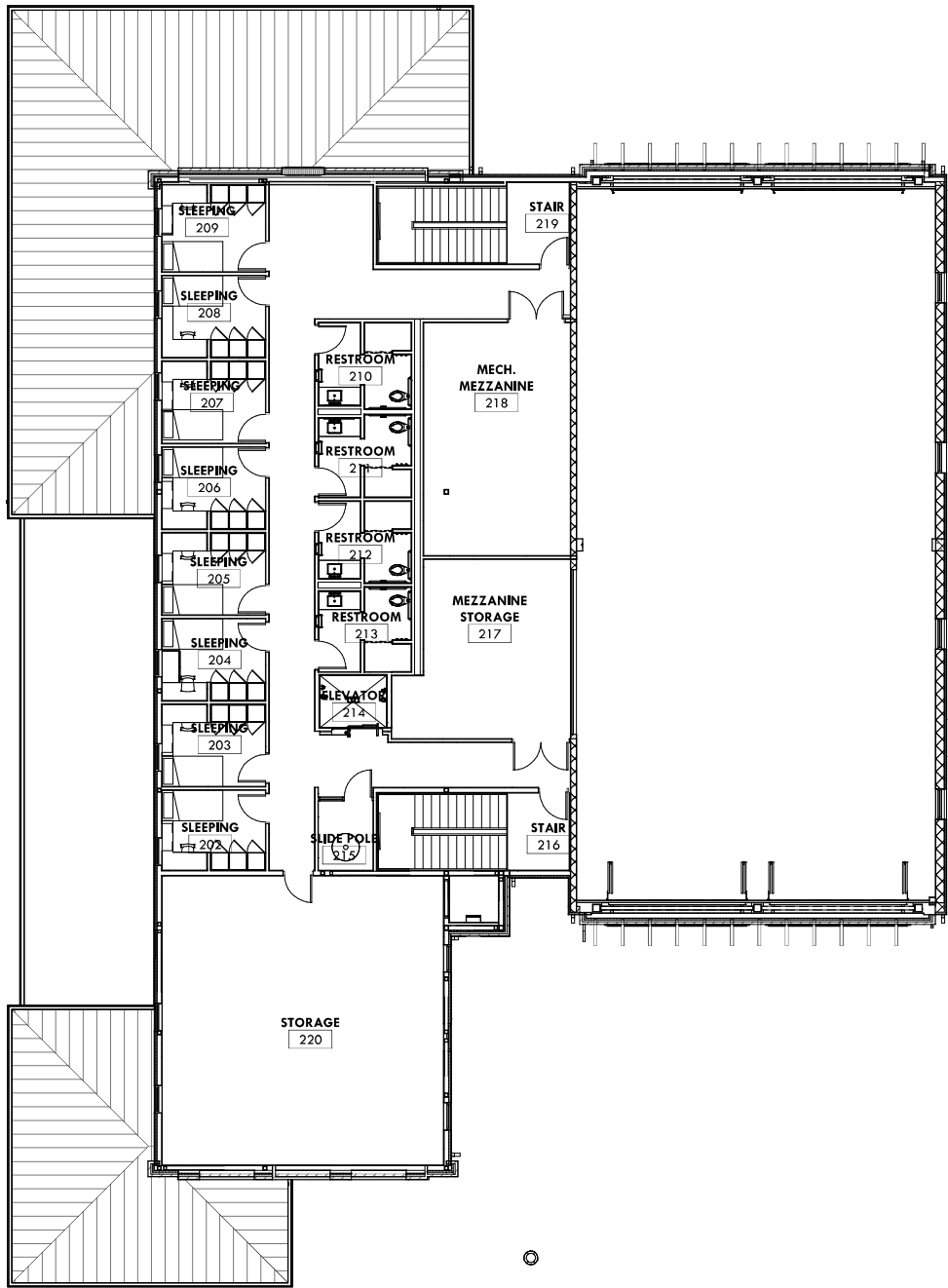
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FIRE STATION NO. 3**
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A7.2

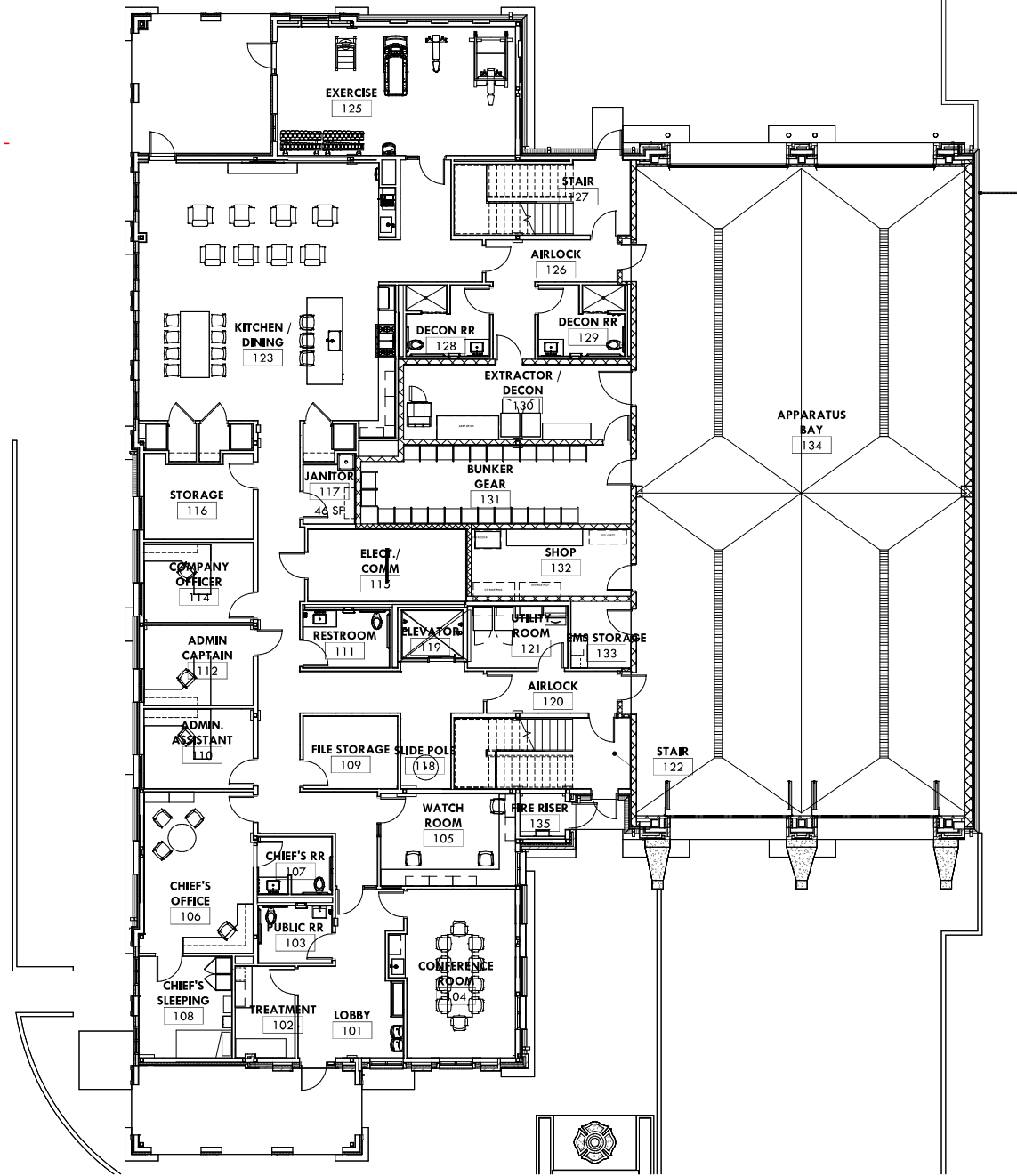
INTERIOR DETAILS

ISSUE FOR BID



2 SECOND FLOOR FURNISHING/EQUIPMENT PLAN
1/8" = 1'-0"

EQUIPMENT SCHEDULE				
Type Mark	Description	Model	Type Comments	Count
E1	COFFEE MAKER	<varies>	OWNER PROVIDED CONTRACTOR INSTALLED	17
E2	UNDERCOUNTER ICE MACHINE (KITCHEN)		CONTRACTOR PROVIDED CONTRACTOR INSTALLED	1
E3	REFRIGERATOR		OWNER PROVIDED CONTRACTOR INSTALLED	3
E4	GARBAGE DISPOSAL (KITCHEN)		CONTRACTOR PROVIDED, CONTRACTOR INSTALLED	1
E5	GAS RANGE (KITCHEN)	5610224	CONTRACTOR PROVIDED CONTRACTOR INSTALLED	1
E6	MICROWAVE		OWNER PROVIDED OWNER INSTALLED	1
E7	FRONT LOAD DRYER		OWNER PROVIDED CONTRACTOR INSTALLED	2
E8	FRONT LOAD WASHER		OWNER PROVIDED CONTRACTOR INSTALLED	2
E9	ADJUSTABLE BENCH (EXERCISE ROOM)		OWNER PROVIDED OWNER INSTALLED	1
E10	WEIGHT RACK (EXERCISE ROOM)		OWNER PROVIDED OWNER INSTALLED	1
E11	STAR CUMBER (EXERCISE ROOM)		OWNER PROVIDED OWNER INSTALLED	1
E12	TREADMILL		OWNER PROVIDED OWNER INSTALLED	1
E13	DUMBBELL RACK (EXERCISE ROOM)		OWNER PROVIDED OWNER INSTALLED	2
E14	GEAR DRYER		OWNER PROVIDED CONTRACTOR INSTALLED	1
E15	COMPRESSOR		CONTRACTOR PROVIDED CONTRACTOR INSTALLED	1
E16	ICE MACHINE		OWNER PROVIDED CONTRACTOR INSTALLED	1
E17	EXTRACTOR		OWNER PROVIDED CONTRACTOR INSTALLED	1

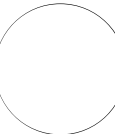


1 FIRST FLOOR FURNISHING/EQUIPMENT PLAN
1/8" = 1'-0"

FURNITURE SCHEDULE				
Type Mark	Description	Model	Type Comments	Count
F1	DESC	PN	OWNER PROVIDED OWNER INSTALLED	3
F2	BED (SLEEPING ROOM)		OWNER FURNISHED OWNER INSTALLED	9
F3	CONF. ROOM CHAIRS		OWNER FURNISHED OWNER INSTALLED	10
F4	DESK CHAIR (SLEEPING ROOMS)		OWNER FURNISHED OWNER INSTALLED	8
F5	DESK CHAIR (OFFICES)		OWNER PROVIDED OWNER INSTALLED	10
F6	DESK CHAIR (SLEEPING ROOMS)		OWNER FURNISHED OWNER INSTALLED	8
F7	RECLINER		OWNER FURNISHED OWNER INSTALLED	1
F8	CONFERENCE TABLE		OWNER FURNISHED OWNER INSTALLED	1
F9	DINING TABLE		OWNER FURNISHED OWNER INSTALLED	1
F10	DESK (OFFICE LARGE)		OWNER PROVIDED OWNER INSTALLED	4
F11	TREATMENT TABLE		OWNER PROVIDED OWNER INSTALLED	1
F12	BOOKSHELVES		OWNER FURNISHED OWNER INSTALLED	2



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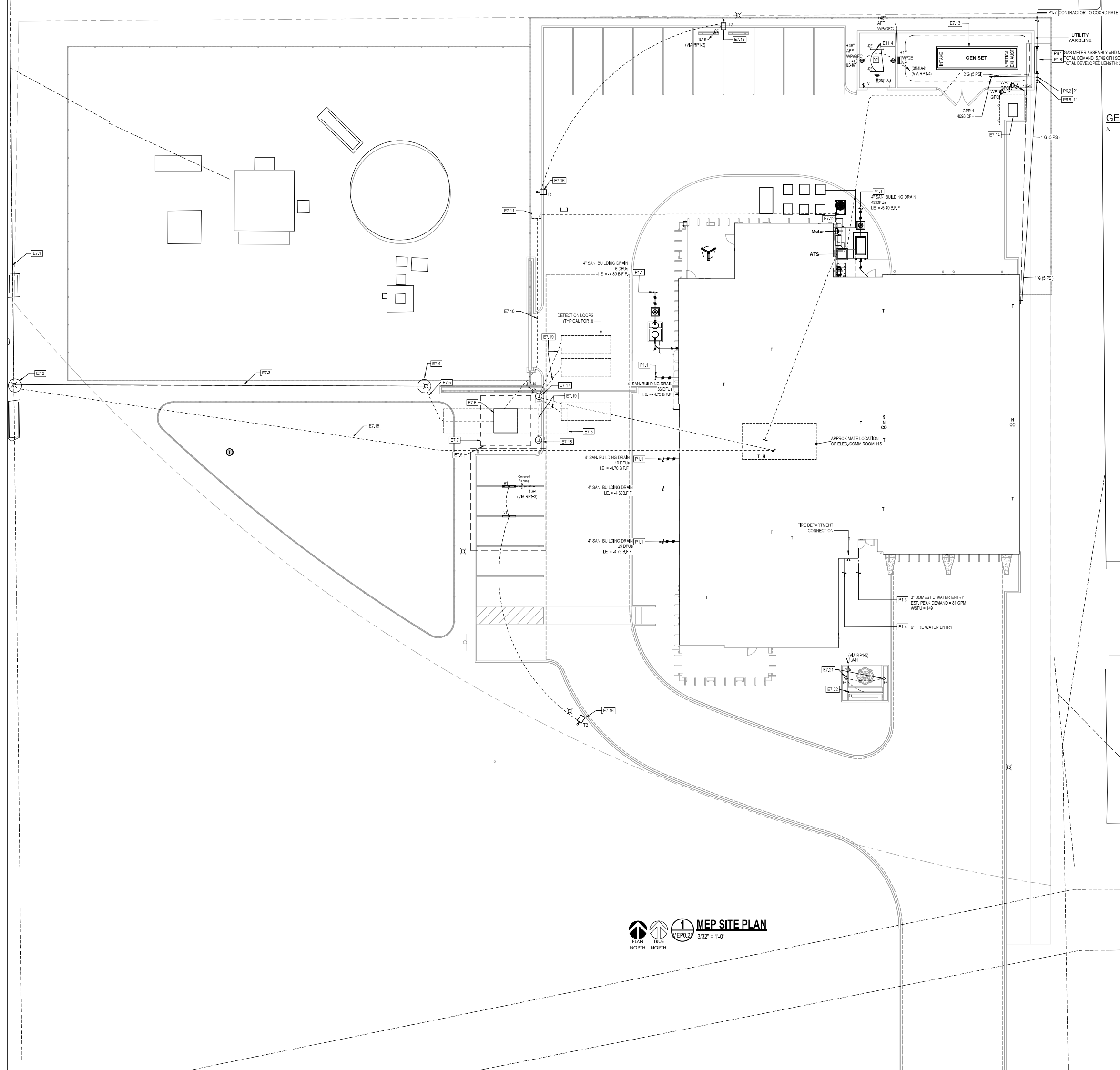


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A9.1

ISSUE FOR BID

FURNISHING/EQUIPMENT
PLANS (FOR
INFORMATION ONLY)



GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET ED.1.1 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

- E7.1 PROPOSED LOCATION OF EXISTING 3-PHASE OVERHEAD POWER LINES. FIELD VERIFY EXACT LOCATION.
- E7.2 PROPOSED LOCATION OF NEW UTILITY COMPANY POWER POLE. PROVIDE A MINIMUM OF 20' DISTANCE FROM TERMINAL POWER POLE. EXACT POLE LOCATION AND ROUTING SHALL BE DETERMINED BY AEP. COORDINATE PLACEMENTS OF POLE EASEMENTS REQUIREMENTS WITH AEP AND ALL SITE UTILITIES.
- E7.3 NEW 3-PHASE OVERHEAD POWER LINES.
- E7.4 PROPOSED LOCATION OF NEW UTILITY COMPANY TERMINAL POWER POLE. PROVIDE A MINIMUM OF 20' DISTANCE FROM POWER POLE. EXACT POLE LOCATION AND ROUTING SHALL BE DETERMINED BY AEP. COORDINATE PLACEMENTS OF POLE EASEMENTS REQUIREMENTS WITH AEP AND ALL SITE UTILITIES.
- E7.5 PROPOSED ROUTING OF NEW UNDERGROUND PRIMARY. COORDINATE WITH CIVIL ARCHITECT, OWNER AND ALL SITE UTILITIES PRIOR TO STARTING ANY WORK. PROVIDE A DETECTABLE RIBBON WITH THE BURIED POWER LINE.
- E7.6 PROPOSED LOCATION OF NEW AEP PAD MOUNTED TRANSFORMER. PROVIDE CONCRETE PAD PER AEP SERVICE STANDARDS AND SPECIFICATIONS. COORDINATE WITH UTILITY POWER COMPANY AND ALL SITE UTILITIES PRIOR TO ROUGH-IN.
- E7.7 PROVIDE 15' X 15' EASEMENT FROM THE CENTER OF THE TRANSFORMER CONCRETE PAD. REFER TO AEP CONCRETE PAD STANDARDS AND SPECIFICATIONS FOR FINAL PAD SIZE AND DIMENSIONS. COORDINATE WITH AEP AND ALL SITE UTILITIES PRIOR TO ROUGH-IN.
- E7.8 PROVIDE A MINIMUM OF 15 FEET CLEARANCE IN FRONT OF TRANSFORMER. COORDINATE WITH AEP AND ALL SITE UTILITIES PRIOR TO ROUGH-IN.
- E7.9 PROVIDE BOLLARDS PER AEP SERVICE STANDARDS AND SPECIFICATIONS. COORDINATE WITH UTILITY POWER COMPANY AND ALL SITE UTILITIES PRIOR TO ROUGH-IN.
- E7.10 PROPOSED ROUTING OF NEW UNDERGROUND SECONDARY (DUCTBANK FOR NEW SERVICE ENTRANCE) PER AEP SERVICE STANDARDS AND SPECIFICATIONS. COORDINATE WITH AEP AND ALL SITE UTILITIES PRIOR TO ROUGH-IN. REFER TO ONE-LINE DIAGRAM FOR FURTHER DETAILS.
- E7.11 PROPOSED LOCATION OF NEW UTILITY POWER COMPANY STANDARD PULL BOX. PROVIDE A PULL BOX EVERY 400 FEET. REFER TO AEP SERVICE STANDARDS AND SPECIFICATIONS PRIOR TO ORDERING EQUIPMENT. COORDINATE WITH UTILITY POWER COMPANY AND ALL SITE UTILITIES PRIOR TO ROUGH-IN.
- E7.12 PROPOSED LOCATION FOR CT CABINET, METER CAN, AND SERVICE ENTRANCE DISCONNECT. COORDINATE WITH ALL SITE UTILITIES ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.
- E7.13 PROPOSED LOCATION OF GENERATOR.
- E7.14 PROPOSED LOCATION OF NEW GENERATOR LOAD BANK. ALL WORKING CLEARANCES PER NEC AND LOAD BANK MANUFACTURER SHALL BE MET. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- E7.15 PROPOSED ROUTING OF INCOMING TELECOM UTILITY. PROVIDE (4" 4" CONDUITS WITH PULLSTRING. COORDINATE EXACT ROUTING WITH TELECOM UTILITY PRIOR TO CONSTRUCTION.
- E7.16 COORDINATE ALL LOCATIONS WITH CIVIL SITE UTILITIES PRIOR TO ROUGH-IN.
- E7.17 PROVIDE POWER AND DATA CONDUIT WITH PULLSTRING FOR SECURITY GATE. GATE SHALL BE CONTROLLED VIA ACCESS DEVICES AS WELL AS REMOTELY VIA PUSH BUTTON. CONFIRM LOCATION WITH FINAL SELECTED EQUIPMENT. CONTRACTOR SHALL FIELD COORDINATE INSTALLATION DETAILS AND ALL REQUIREMENTS WITH CONTRACTOR/INSTALLER.
- E7.18 PROPOSED LOCATION OF PREDESTAL MOUNTED ACCESS CONTROL. PROVIDE POWER AND DATA AS NECESSARY. CONFIRM LOCATION WITH FINAL SELECTED EQUIPMENT. CONTRACTOR SHALL FIELD COORDINATE INSTALLATION DETAILS AND ALL REQUIREMENTS WITH GATE CONTRACTOR/INSTALLER.
- E7.19 EMPTY 1" CONDUIT ROUTED BELOW GRADE.
- E7.21 PROVIDE FLAG POLE LIGHTING MOUNTED ON PLANT BED. CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION. INSTALLATION DETAILS, AND CONNECTION REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.
- E7.22 PROVIDE JAVELINA MONUMENT LIGHTING. CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION. INSTALLATION DETAILS, AND CONNECTION REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

GENERAL PLUMBING NOTES

- REFER TO CIVIL DRAWINGS FOR CONTINUATION OF DOMESTIC WATER, FIRE PROTECTION WATER, STORM, AND SANITARY WASTE UTILITIES.
- REFER TO CIVIL DRAWINGS FOR LOCATION(S) OF WATER METER(S).
- REFER TO CIVIL DRAWINGS FOR BUILDING FINISHED FLOOR ELEVATION(S).
- ALL INVERT ELEVATIONS INDICATED ARE RELATIVE TO THE FINISHED FLOOR ELEVATION OF THE BUILDING SLAB AT THEIR RESPECTIVE LOCATIONS. UNLESS SPECIFICALLY NOTED OTHERWISE.
- INVERT ELEVATIONS LISTED ARE APPROXIMATE. PRIOR TO CONSTRUCTION, COORDINATE FINAL INVERT ELEVATIONS OF GRAVITY OUTFALLS WITH SITE UTILITY CONTRACTOR. MAKE ADJUSTMENTS AS REQUIRED TO ENSURE PROPER CONNECTIONS TO AVAILABLE SITE UTILITIES.
- ROLL-DOWN AS NECESSARY AND PROVIDE PIPE FITTINGS, AND ADAPTERS AS REQUIRED TO MAKE PROPER CONNECTIONS TO SITE UTILITY LINES.
- PROVIDE SCHEDULE 40 SOLID WALL PVC SLEEVES FOR ALL SITE GAS PIPING TO BE ROUTED BELOW CONCRETE, ASPHALT, OR PAVING. SLEEVES SHALL BE NO SMALLER THAN TWO TIMES THE DIAMETER OF THE GAS PIPING TO BE SERVED. PROVIDE 4" X 1/4" TEMPORARY LEAVE-OUTS IN THE PAVING AT ALL CHANGES IN DIRECTION ALONG THE ROUTE OF THE SLEEVE. ENSURE ALL SLEEVES ARE MAINTAINED FREE FROM DIRT AND DEBRIS. CLEARLY MARK ALL LOCATIONS.
- FIELD COORDINATE/CONFIRM THE ROUTING AND INSTALLATION OF GAS SERVICE PIPING WITH THE LOCAL UTILITY PROVIDER PRIOR TO ANY SITE PAVING WORK. MAKE ADJUSTMENTS AS REQUIRED.
- NO PLUMBING PIPING SHALL BE ROUTED OVER MAJOR MECHANICAL EQUIPMENT, MOD/DATA CLOSETS, ELECTRICAL ROOMS, OR ANY SUCH EQUIPMENT.
- UNLESS SPECIFICALLY NOTED OTHERWISE, THE BUILDING SHALL BE FULLY FIRE SPRINKLERED IN COMPLIANCE WITH HPFA 13, STATE DEPARTMENT OF INSURANCE (STATE FIRE MARSHAL) REQUIREMENTS, AND ALL APPLICABLE LOCAL CODES.
- THE FIRE SPRINKLER CONTRACTOR SHALL COORDINATE SPRINKLER HEAD INSTALLATION WITH THE LATEST ARCHITECTURAL REFLECTED CEILING PLANS, EXTEND BRANCH LINES ACCORDINGLY TO PROVIDE SPRINKLERS BOTH ABOVE AND BELOW ANY "CLOUD" CELINGS, IF PRESENT.

PLUMBING KEYED NOTES

- P1.1 SANITARY BUILDING DRAIN. SIZE AS NOTED. REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATION BEYOND 5' OF THE BUILDING LINE.
- P1.3 DOMESTIC WATER SERVICE. SIZE AND PEAK FLOW RATE AS NOTED.
- P1.4 FIRE PROTECTION WATER SERVICE. SIZE AS NOTED.
- P1.7 PROPOSED ROUTING OF NATURAL GAS SERVICE LINE BY LOCAL UTILITY PROVIDER.
- P1.8 NEW NATURAL GAS SERVICE METER AND REGULATOR SET. TOTAL CONNECTED LOAD AND OUTLET PRESSURE AS NOTED.
- P6.1 PROPOSED LOCATION OF 5 PSI GAS METER, GAS METER, VALVE LINE AND REGULATOR ASSEMBLY PROVIDED BY LOCAL GAS COMPANY. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO BIDDING TO DETERMINE FINAL LOCATION AND DETERMINE ALL COSTS/FEE'S ASSOCIATED WITH GAS SERVICE AND INCLUDE ALL COST IN BID.
- P6.2 CONTRACTOR SHALL PROVIDE 5 PSI TAP WITH SHUT OFF VALVE. ROUTE BELOW GRADE TO SERVE GENERATOR. SIZE AS NOTED. LOCATE GPR MINIMUM 10 FEET FROM THE GENERATOR.
- P6.8 CONTRACTOR SHALL PROVIDE 5 PSI TAP WITH SHUT OFF VALVE. ROUTE BELOW GRADE TO SERVE BUILDING. SIZE AS NOTED.

MEP SITE PLAN
1
MEP0.21
3/32" = 1'-0"



04/24/2025

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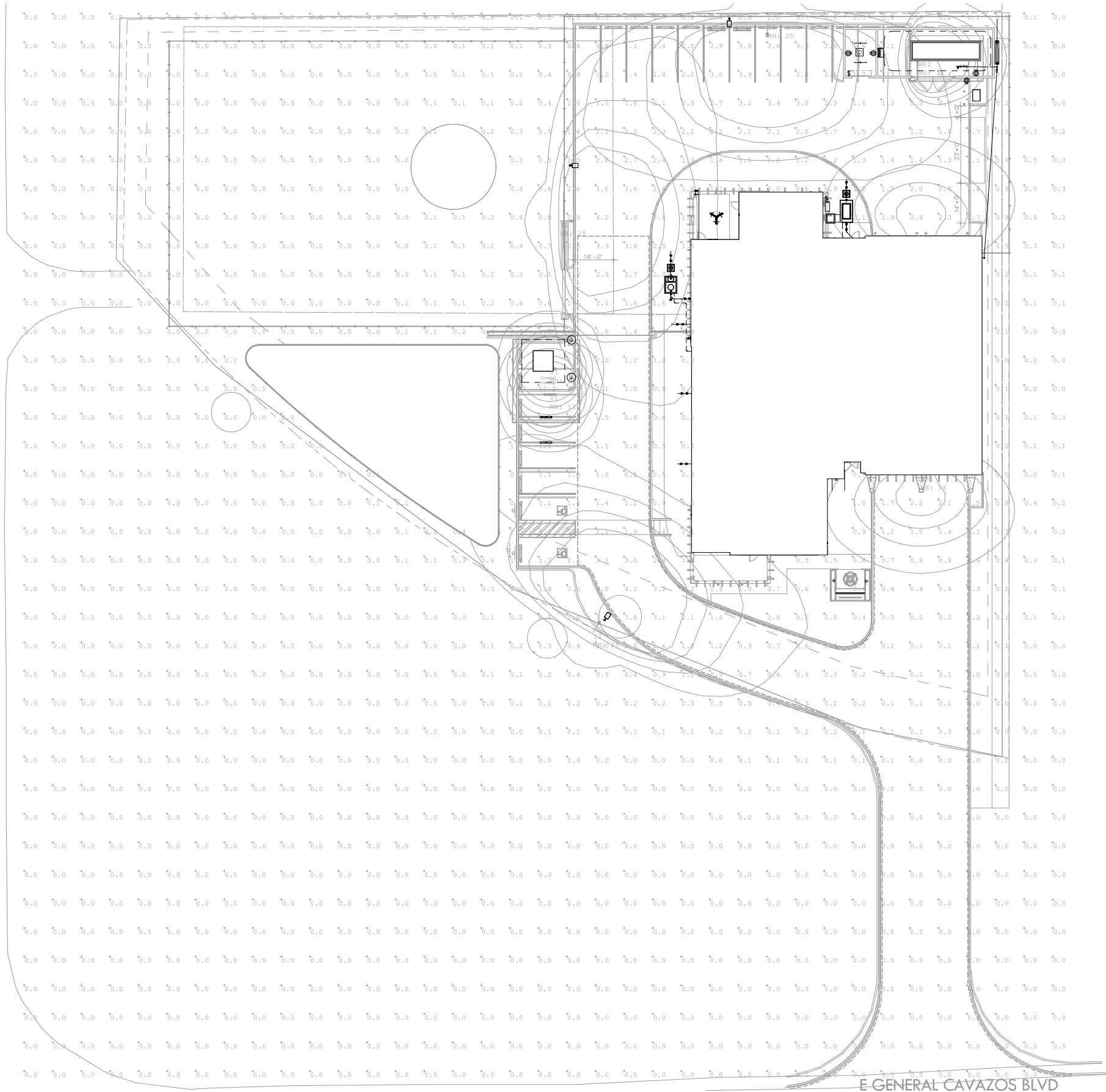
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TYPICAL REGISTRATION EXPIRATION DATE
BRIAN J. BURMAN (SUSPENDED)

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MEP0.21
ISSUE FOR BID
MEP SITE PLAN



PLAN NORTH TRUE NORTH
1
MEP0.22
1/16" = 1'-0"

PHOTOMETRICS SITE PLAN



04/24/2025

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MEP0.22
PHOTOMETRICS SITE PLAN

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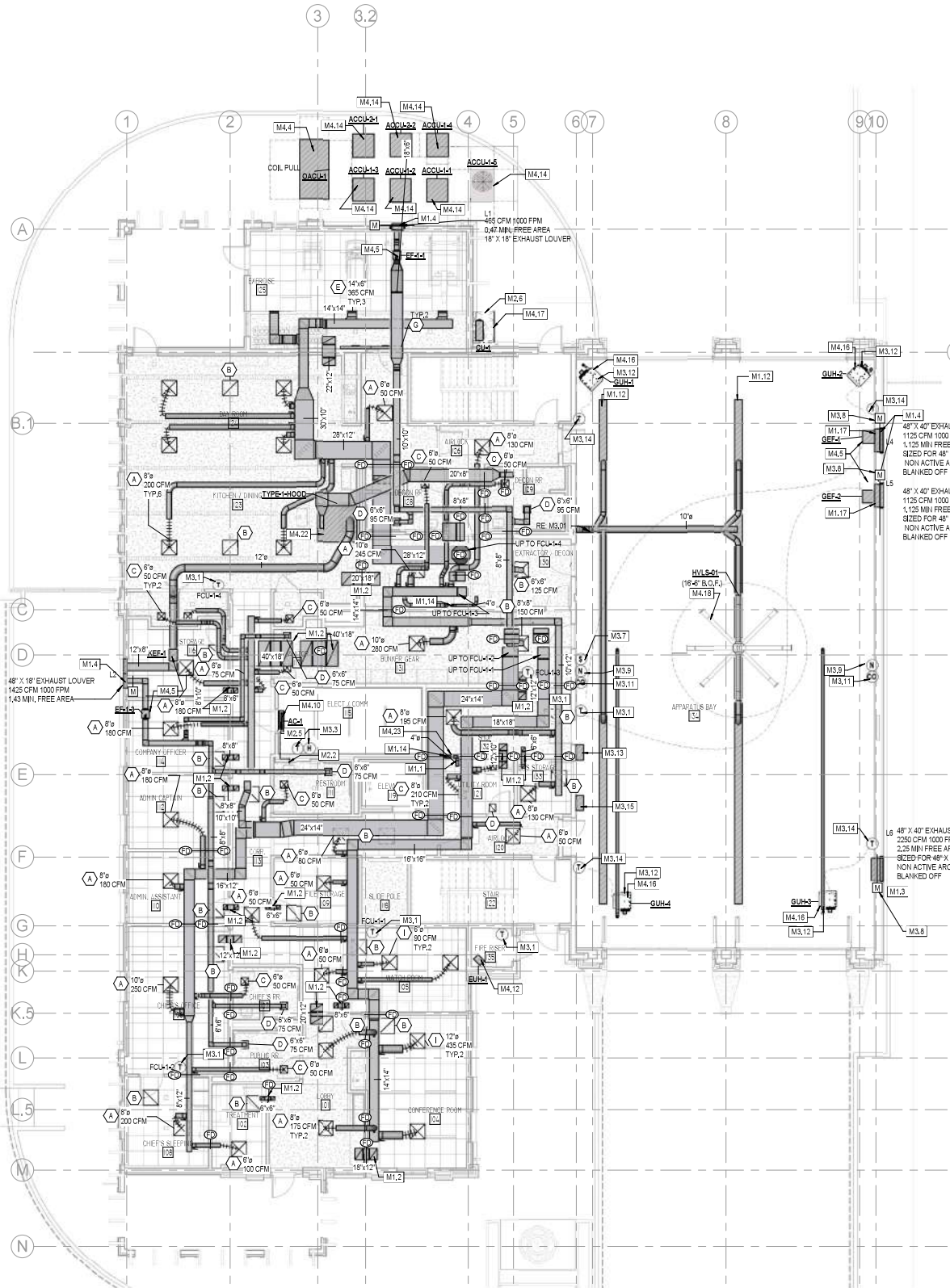


ISSUE FOR BID

NO.	REVISION	DATE
	ISSUE FOR BID	04/24/2025

MECHANICAL KEYED NOTES

- M1.1 PROVIDE RECESSED DRYER VENT BOX AT APPROXIMATE LOCATION SHOWN, COORDINATE WITH ARCHITECT PRIOR TO ORDERING.
- M1.2 PROVIDE RETURN AIR TRANSFER BOOT, SIZE AS INDICATED, RE DETAIL 18M6.01.
- M1.3 PROVIDE INTAKE LOUVER AT APPROXIMATE LOCATION SHOWN, REFER TO ARCHITECTURAL FOR FINAL DIMENSIONS, MODEL, ELEVATION, AND FINISH. PROVIDE 18" DEEP SHEET METAL PLUMB AT BACK OF LOUVER FOR OUTSIDE AIR DUCT ATTACHMENT, RE DETAIL 59M6.01.
- M1.4 PROVIDE EXHAUST LOUVER AT APPROXIMATE LOCATION SHOWN, REFER TO LOUVER SCHEDULE FOR FINAL DIMENSIONS, MODEL, ELEVATION, AND FINISH. PROVIDE 18" DEEP SHEET METAL PLUMB AT BACK OF LOUVER FOR EXHAUST AIR DUCT ATTACHMENT, RE DETAIL 59M6.01.
- M1.12 PROVIDE RAILING BACK TO BE 13'-6" A.F.F. ENSURE HULS FAN HAS 2' CLEARANCE VERTICALLY FROM RAILING, COORDINATE WITH HULS FAN CLEARANCES. INSTALLER TO BUILD DIAGONAL OR OFFSET BRACES TO AVOID CONFLICT WITH HULS FAN FIT SUPPORTS FOR RAILING SYSTEM.
- M1.14 ROUTE DRYER VENT TO ROOF, REFER TO SHEET M2.21 FOR DUCT CONTINUATION.
- M1.17 MECHANICAL CONTRACTOR TO ENSURE ALL MOUNTING DEVICES TO BE INSTALLED THROUGH WALL EXHAUST FAN AND LARGER FACADE LOUVER IN FRONT OF THE EXHAUST FAN.
- M2.2 ROUTE 3/4" CONDENSATE DRAIN LINE FROM FAN COIL UNIT TO PLUMBING TAILPIECE LOCATED BELOW LAVATORY, COORDINATE EXACT CONNECTION LOCATION WITH PLUMBING.
- M2.5 ROUTE REFRIGERANT PIPING FROM WALL MOUNTED DUCTLESS FAN COIL UNIT TO ASSOCIATED AIR COOLED CONDENSING UNIT, REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS, FIELD COORDINATE EXACT ROUTING.
- M2.6 ROUTE REFRIGERANT PIPING FROM AIR COOLED CONDENSING UNIT THROUGH EXTERIOR WALL TO INDOOR FAN COIL UNIT, REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS, FIELD VERIFY EXACT PIPING ROUTING, RE DETAIL 30M6.01.
- M3.1 PROVIDE THERMOSTAT AT APPROXIMATE LOCATION SHOWN, THERMOSTAT SHALL BE INSTALLED AT SAME ELEVATION AS LIGHT SWITCHES, COORDINATE FINAL LOCATION WITH ARCHITECT AND OTHER TRADES TO AVOID CONFLICTS.
- M3.3 PROVIDE COMBINATION TEMPERATURE/HUMIDITY SENSOR AT APPROXIMATE LOCATION SHOWN, SENSOR SHALL BE INSTALLED AT SAME ELEVATION AS LIGHT SWITCHES, COORDINATE FINAL LOCATION WITH ARCHITECT AND OTHER TRADES TO AVOID CONFLICTS.
- M3.7 PROVIDE HULS CONTROLLER AT APPROXIMATE LOCATION SHOWN, PROVIDE RELAY TO SHUT DOWN HULS FAN DURING FIRE ALARM, TIE IT TO FIRE ALARM PANEL, MOUNT HULS CONTROL PANEL ABOVE SWITCH @ 10' A.F.F.
- M3.8 INTERLOCK MOTORIZED DAMPER WITH ASSOCIATED EXHAUST FAN SUCH THAT THE DAMPER SHALL BE OPEN WHEN FAN IS ENERGIZED AND SHUT WHEN FAN IS DEENERGIZED.
- M3.9 PROVIDE NITROGEN DIOXIDE DETECTOR, AIR TEST MODEL TR6210, 1'-0" A.F.F. GEF SHALL ENERGIZE WHEN THE NO2 SENSOR DETECTS A CONCENTRATION OF 1 PPM OF NO2, A VISUAL AND AUDIBLE ALARM WILL SIGNAL WHEN NO2 DETECTOR DETECTS 3PPM OF NO2, DETECTORS SHALL BE INSTALLED AND CALIBRATED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, PROVIDE SYSTEM WITH CALIBRATION GAS HT AND GUARD, CALIBRATION TO BE PERFORMED ANNUALLY.
- M3.11 PROVIDE CARBON MONOXIDE DETECTOR, MODEL G14CO, 5' A.F.F. GENERAL EXHAUST FANS SHALL ENERGIZE WHEN THE CO SENSOR DETECTS A CONCENTRATION OF 25 PPM OF CO, A VISUAL AND AUDIBLE ALARM WILL SIGNAL WHEN CO SENSOR DETECTS 100 PPM OF CO, DETECTORS SHALL BE INSTALLED AND CALIBRATED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, PROVIDE SYSTEM WITH CALIBRATION GAS, CALIBRATION TO BE PERFORMED ANNUALLY.
- M3.12 INTERLOCK UNIT HEATER CONTROLS WITH APP BAY DOOR CONTROLLERS, ALL UNITS SHALL ENERGIZE WHEN ALL DOORS ARE CLOSED AND DEENERGIZED WHEN DOORS ARE OPEN, PROVIDE GLOBAL INDOOR AIR TEMPERATURE SENSOR MOUNTED AT THE HIGHEST ELEVATION IN THE CENTER OF THE BAY SUCH THAT WHEN THE BAY AIR TEMPERATURE FALLS BELOW 40°F, ALL HEATERS ENERGIZE AND AN AUDIOVISUAL ALARM WILL SOUND, COORDINATE HEATER INTERLOCKS TO DOORS WITH DOOR MANUFACTURER, COORDINATE ALL CONTROLS INSTALL WITH DIVISION 26.
- M3.13 PROVIDE VALVE/TEST GAS DETECTION SYSTEM CONTROLLER MODEL G14G AND INSTALL ABOVE CO2 SENSOR, 24 VOLTS AC SHALL BE PROVIDED BY CONTROL CONTRACTOR, PROVIDE MANUAL OVERRIDE SWITCH THROUGH CONTROLLER.
- M3.14 PROVIDE THERMOSTAT AT APPROXIMATE LOCATION SHOWN, THERMOSTAT SHALL BE INSTALLED AT SAME ELEVATION AS LIGHT SWITCHES, COORDINATE FINAL LOCATION WITH ARCHITECT AND OTHER TRADES TO AVOID CONFLICTS, ENSURE THE APPARATUS BAY HEATERS THERMOSTATS INCLUDE A LOCK BOX.
- M3.15 PROVIDE PLYMONT CONTROL PANEL AT APPROXIMATE LOCATION SHOWN, COORDINATE FINAL LOCATION WITH ARCHITECT AND OTHER TRADES TO AVOID CONFLICTS.
- M4.4 PROVIDE CONDENSING UNIT FOR OUTSIDE AIR HANDLING UNIT AT APPROXIMATE LOCATION SHOWN, PROVIDE ALL CLEARANCES AS REQUIRED BY EQUIPMENT MANUFACTURER, INSTALL UNIT ON 6" HIGH HOUSEKEEPING PAD.
- M4.5 PROVIDE INLINE FAN AT APPROXIMATE LOCATION SHOWN, SUSPEND FAN FROM STRUCTURE, PROVIDE NECESSARY DUCT TRANSITIONS FROM FAN INLET AND DISCHARGE, RE DETAIL 10M6.01.
- M4.10 PROVIDE WALL MOUNTED DUCTLESS FAN COIL UNIT AT APPROXIMATE LOCATION SHOWN, INSTALL UNIT AS HIGH AS POSSIBLE ON WALL.
- M4.12 PROVIDE ELECTRIC UNIT HEATER AT APPROXIMATE LOCATION SHOWN, MOUNT AT 8 FEET A.F.F. PROVIDE THERMOSTAT, MOUNT THERMOSTAT AT SAME ELEVATION AS LIGHT SWITCHES, COORDINATE WITH ARCHITECT AND OTHER TRADES PRIOR TO CONSTRUCTION TO AVOID CONFLICT WITH EQUIPMENT, HEATER SHALL BE SET TO TURN ON THE HEATER WHEN SPACE TEMPERATURE FALLS BELOW 50°F, ADJUSTABLE.
- M4.14 PROVIDE CONDENSING UNIT AT APPROXIMATE LOCATION, PROVIDE 6" CONCRETE PAD, ROUTE REFRIGERANT LINES TO ASSOCIATED FAN COIL UNITS, PROVIDE NECESSARY CLEARANCES, COORDINATE EXACT LOCATION WITH OWNER.
- M4.16 PROVIDE GAS UNIT HEATER AT APPROXIMATE LOCATION SHOWN, PROVIDE ALL MANUFACTURER'S RECOMMENDED CLEARANCES, ROUTE FLUE FROM HEATER UP THROUGH ROOF AND TERMINATE 3' ABOVE ROOF WITH ROOF CAP, SLOPE OF FLUE SHALL BE NO MORE THAN 45 DEGREES FROM VERTICAL.
- M4.17 PROVIDE CONDENSING UNIT AT APPROXIMATE LOCATION SHOWN, PROVIDE UNIT TO BE WALL MOUNTED, RE ARCHITECTURAL EXTERIOR ELEVATION, RE DETAIL 17M6.01.
- M4.18 PROVIDE HULS FAN IN LOCATION SHOWN, FAN APF SHALL BE MINIMUM DISTANCE OF 2' IN ANY DIRECTION FROM OBSTACLES, FAN SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO CEILING WHILE MAINTAINING MANUFACTURER RECOMMENDED CLEARANCES, COORDINATE FAN INSTALLATION WITH GARAGE DOOR, HEATERS, LIGHTS AND EXHAUST TAILPIECE SYSTEM, TIE FAN TO FIRE ALARM SYSTEMS RELAY TO DISABLE FAN IF ALARM IS ACTIVATED.
- M4.22 PROVIDE TYPE-1 RANGE HOOD AT APPROXIMATE LOCATION SHOWN, CONFIRM HOOD LOCATION WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION, CONTRACTOR TO FOLLOW ALL HOOD MANUFACTURER'S CONTROLS AND INSTALLATION RECOMMENDATIONS AS REQUIRED.
- M4.23 PROVIDE BOOSTER FAN THAT IS TIED TO THE DRYER, REFER TO DETAIL 13M6.01.



1 FIRST LEVEL MECHANICAL PLAN
1/8" = 1'-0"

APPARATUS BAY EXHAUST FAN SEQUENCE OF OPERATIONS:
SHOULD CARBON MONOXIDE GAS CONCENTRATION OCCUR ABOVE 25 PPM (AD), AN ALARM SIGNAL FROM ANY SENSOR UNIT SHALL START A 30 SECOND DELAY, SHOULD THE CONCENTRATION PERSIST THROUGH THE DELAY PERIOD, THE ALARM SHALL BE ACTIVATED, UPON ACTIVATION OF THE ALARM, THE FAN/ON RELAY SHALL ENERGIZE GEF-01 AND GEF-02 AND THESE FANS WILL REMAIN ENERGIZED UNTIL THE CARBON MONOXIDE GAS CONCENTRATION FALLS BELOW THE SET POINT, SHOULD THE HIGH CONCENTRATION STILL REMAIN ABOVE THE ALARM LEVEL, THE FANS SHALL REMAIN ENERGIZED AND THE ALARM RELAY WILL BE ENERGIZED.

THE SENSORS SHALL HAVE A WATER/ROUST TIGHT AND CORROSION RESISTANT ENCLOSURE, THE SENSORS SHALL BE MOUNTED 5 FEET ABOVE THE FINISHED FLOOR.

EVERY CO SENSOR SHALL BE INTERLOCKED TO THE FAN AS SHOWN ON PLANS, THE FANS SHALL BE ACTIVATED UPON DETECTION OF CARBON MONOXIDE LEVELS EXCEEDING 25 PPM.

EACH OF THE EXHAUST FANS SHALL BE INTERLOCKED WITH THEIR RESPECTIVE LOUVERS, LOUVERS SHALL OPEN TO FULL OPEN POSITION WHEN FAN IS ENERGIZED.

PROVIDE WALL-MOUNTED MOMENTARY PUSH-BUTTON MANUAL OVERRIDE SWITCH, WHEN MOMENTARY PUSH BUTTON IS PUSHED GEF-01 AND GEF-02 WILL RUN FOR 10 MINUTES.

TOYALERT MODEL NUMBERS:
CO REMOTE SENSORS (TYP. 3), G14CO
CONTROL PANEL G14G

ACCESSORIES:
AUDIBLE ALARM WITH PUSH BUTTON AUDIO SILENCE
FAN ON INDICATOR
FAN OVERRIDE TIMER
SENSOR STATUS INDICATORS PER SENSOR

GEF-01 WILL RUN CONTINUOUSLY AT MINIMUM AIRFLOW.
IN ADDITION, GEF-01, GEF-02 WILL BE INTERLOCKED WITH THE ALERTING SYSTEM, ONCE THE ALERTING SYSTEM HAS BEEN ACTIVATED, THERE WILL BE A 3 MINUTE DELAY PRIOR TO ENERGIZING FANS, FANS WILL THEN RUN CONTINUOUSLY FOR 10 MINUTES, IF WITHIN THIS PERIOD OF TIME THE ALERTING IS ACTIVATED, THE CYCLE WILL RESTART TO THE 3 MINUTE DELAY.

UNIT ALERTING SYSTEM:
EXHAUST FANS SHALL BE DE-ENERGIZED ONCE IT RECEIVES A SIGNAL FROM ISMET ALERTING SYSTEM, ONCE ISMET ALERTING SYSTEM IS RETURNED TO NORMAL STATE, FANS SHALL ENERGIZE AND RETURN TO NORMAL OPERATION.



BROWN REYNOLDS WATFORD ARCHITECTS
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BRW

DBR
713.542.0885
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Typed Registration No. 2254
Typed Exp. Date 01/01/2025
BRIAN DUBINSKY

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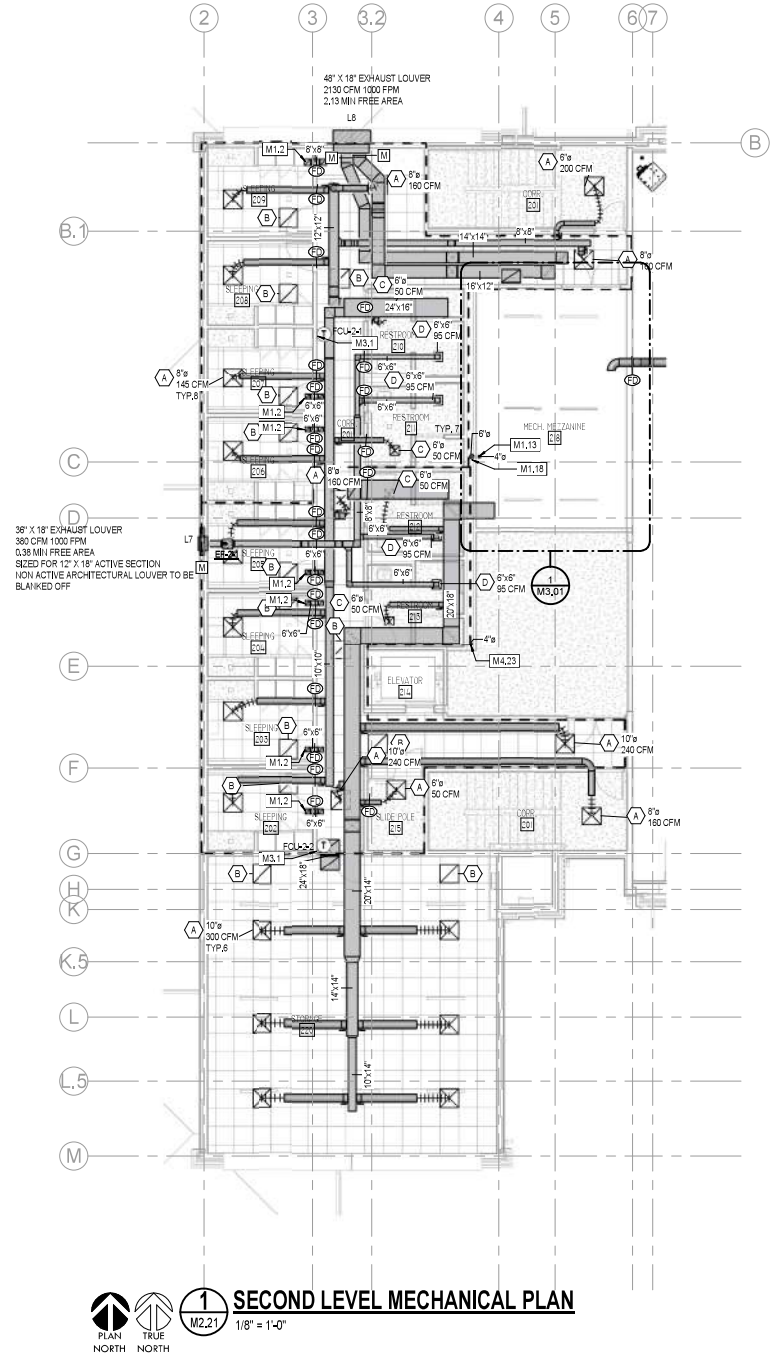
KINGSVILLE FIRE STATION NO. 3
2602 S 6TH ST.
KINGSVILLE, TX 78363

NO.	REVISION	DATE
	ISSUE FOR BID	04/24/2025

M2.21

SECOND LEVEL
MECHANICAL PLAN

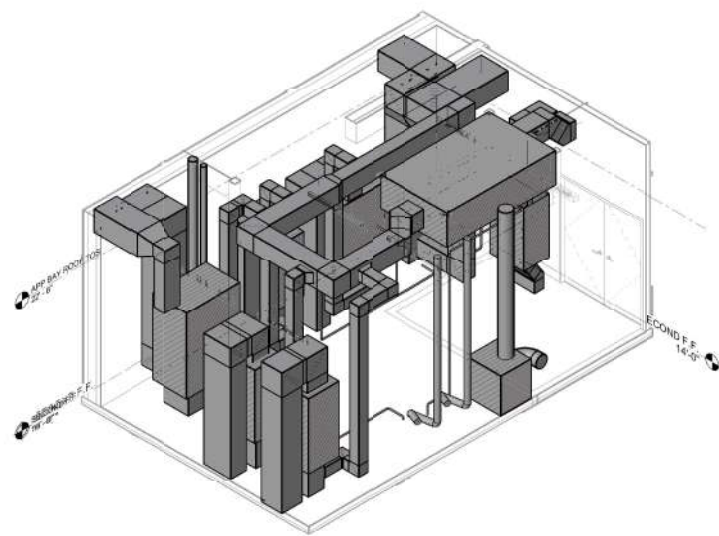
- ☐ **MECHANICAL KEYED NOTES**
- M1.2 PROVIDE RETURN AIR TRANSFER BOOT, SIZE AS INDICATED, RE DETAIL 18M6.01.
- M1.13 TERMINATE 4" DRYER EXHAUST AT ROOF AT APPROXIMATE LOCATION SHOWN, RE DETAIL 10/M6.01
- M1.18 TERMINATE 4" DRYER EXHAUST AT ROOF AT APPROXIMATE LOCATION SHOWN, RE DETAIL 38M6.01
- M3.1 PROVIDE THERMOSTAT AT APPROXIMATE LOCATION SHOWN, THERMOSTAT SHALL BE INSTALLED AT SAME ELEVATION AS LIGHT SWITCHES, COORDINATE FINAL LOCATION WITH ARCHITECT AND OTHER TRADES TO AVOID CONFLICTS.
- M4.23 PROVIDE BOOSTER FAN THAT IS TIED TO THE DRYER, REFER TO DETAIL 13M6.01.



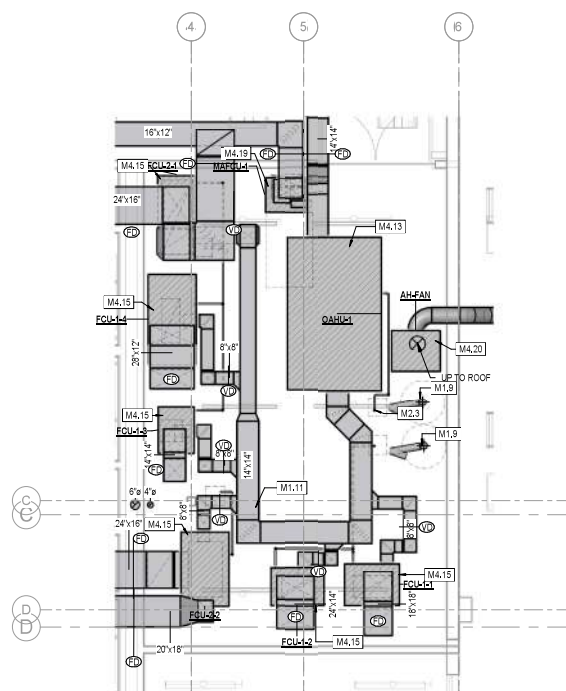
PLAN NORTH
TRUE NORTH

1 SECOND LEVEL MECHANICAL PLAN
M2.21
1/8" = 1'-0"

ISSUE FOR BID



2 MECHANICAL MEZZANINE ISO. VIEW
NOT TO SCALE



1 SECOND LEVEL MECHANICAL MEZANINE
1/4" = 1'-0"

MECHANICAL KEYED NOTES

- M1.9 PROVIDE 4" CONCENTRIC VENTING FOR INTAKE AND EXHAUST. SEE PER MANUFACTURERS SPECIFICATION. FOR GAS WATER HEATER TO ROOF AND CONNECT TO VENT KIT PROVIDED BY MANUFACTURER.
- M1.11 DUCTWORK ROUTED HIGH AND AVOIDS HANGABILITY IN MECHANICAL MEZZANINE. RE ISO VIEW.
- M2.3 ROUTE COOLING COIL CONDENSATE DRAIN LINE TO FLOOR DRAIN WITHIN MECHANICAL ROOM. SIZE AS INDICATED ON DRAWING. COORDINATE WITH PLUMBING FOR EXACT LOCATION OF FLOOR DRAIN.
- M4.13 PROVIDE SUSPENDED DEDICATED OUTSIDE AIR UNIT. ROUTE OUTSIDE AIR DUCT TO INTAKE/OUTLET. PROVIDE ALL CLEARANCES AND ACCESS AS RECOMMENDED BY MANUFACTURER.
- M4.15 PROVIDE VERTICAL FAN COIL UNIT AT APPROXIMATE LOCATION SHOWN. UNIT TO BE ON 6" HOUSEKEEPING PAD. COORDINATE EXACT PLACEMENT WITH STRUCTURE ABOVE SUCH THAT THE DISCHARGE DUCTWORK DOES NOT CONFLICT WITH TRUSSES. PROVIDE TOP DISCHARGE FOR SUPPLY AND BOTTOM DISCHARGE FOR RETURN. ALLOW DUCT TAP FROM DOAS TO CONNECT TO RETURN DUCT FOR MIXING. PROVIDE HIJIGED ACCESS DOOR FOR FILTER RACK. RE DETAIL TMB.01.
- M4.19 PROVIDE VERTICAL MAKEUP AIR FAN COIL UNIT AT APPROXIMATE LOCATION AS SHOWN. PROVIDE ALL MANUFACTURERS RECOMMENDED CLEARANCES. COORDINATE WITH ADJACENT PIPING, WALLS, CONDUIT, STRUCTURAL MEMBERS, ETC.
- M4.20 PROVIDE FLOW/VENT EXHAUST SYSTEM FAN AT APPROXIMATE LOCATION SHOWN. INSTALL PER MANUFACTURERS INSTRUCTIONS. PROVIDE NECESSARY DUCT TRANSITIONS FROM FAN INLET AND DISCHARGE.

KEYN A. REPPER
08819
ARCHITECT

4/24/2025

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TYPICAL REGISTRATION NO. 2254
EXP. DATE 08/31/2025
BRIAN DUBOWSKI (L1211)

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KINGSVILLE
FIRE STATION NO. 3

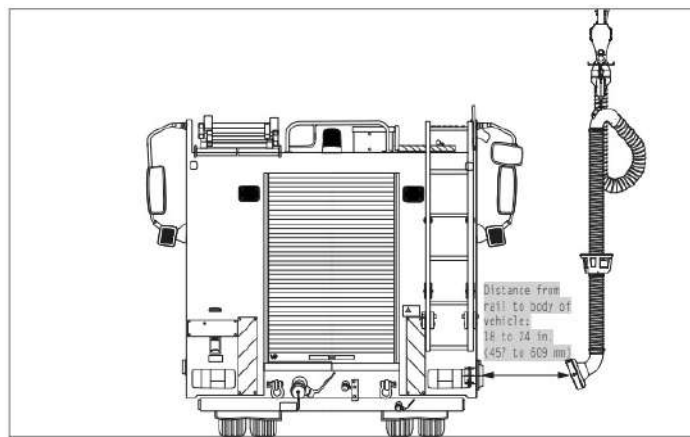
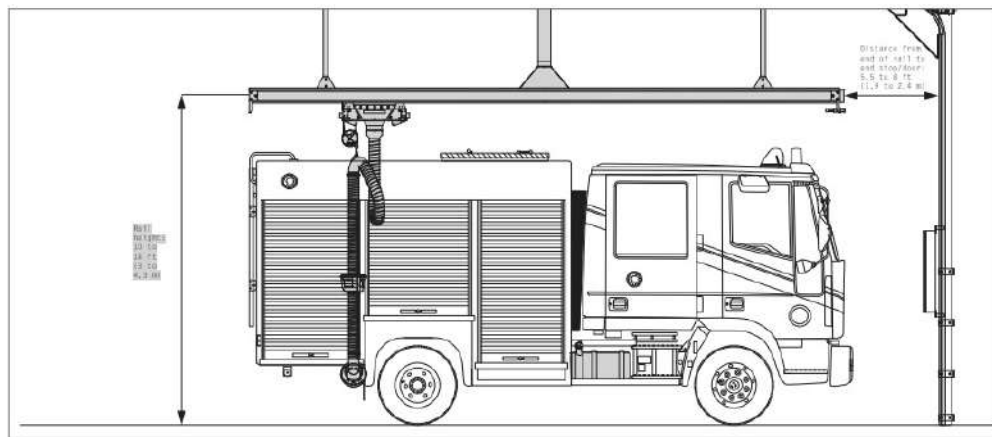
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KINGSVILLE, TX 78363

KINGSVILLE
FIRE

NO.	REVISION ISSUE FOR BID	DATE
		04/24/2025

M3.01

SECOND LEVEL
MECHANICAL
MEZZANINE



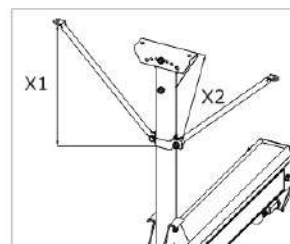
TEV-559			
Power	3 HP (3.7 kW)		
Energy efficiency (NEMA)	premium		
Rated voltage	208-230	208-230/460V	575V
No. of phases	1ph	3ph	3ph
Frequency	60Hz	60Hz	60Hz
Frame	184TC	184TC	184TC
Poles	2	2	2
Rated speed	3500 rpm	3515 rpm	3485 rpm
Slip	Not Listed	Not Listed	3.19%
Rated current	21.00-19.0 A	13.26-12/6 A	4.72 A
L.R. Amperes	153 A @230V	47 A @230V	35.9 A
II/in	7.6 Code J	7.5 Code H	7.5 Code H
No load current	8.00/4.00 A	4.40/2.20 A	1.76 A
Rated torque	7.52 ft-lbs (10.2 Nm)	7.52 ft-lbs (10.2 Nm)	7.52 ft-lbs (10.2 Nm)
Locked rotor torque	216%	213%	220%
Breakdown torque	260%	350%	350%
Design	L	A	B
Insulation class	F	F	F
Temperature rise	71 @100% Load	55 @100% Load	80 K
Locked rotor time	Not Listed	Not Listed	25 s (hot)
Service factor	1.15	1.25	1.25
Duty cycle	Continuous	Continuous	S1
Ambient temperature	-4°F to 176°F (-20°C to +80°C)	-4°F to 176°F (-20°C to +80°C)	-4°F to 176°F (-20°C to +80°C)
Altitude	3280 ft (1000 m) above sea level	3280 ft (1000 m) above sea level	3280 ft (1000 m) above sea level
Enclosure	IP55 (TEFC)	IP55 (TEFC)	IP55 (TEFC)
Mounting	Rigid/F1	Rigid/F1	B34T
Rotation	both	both	both
Preferred preset rotation direction	CCW, seen from drive end side		
Approx. weight	100 lb (45.36 kg)	100 lb (45.36 kg)	Not Listed
Moment of inertia	Not Listed	Not Listed	0.2233 sq.ft.lb (0.0309 kgm²)
Sound pressure level (global)	Not Listed	Not Listed	69.0 dB(A)
Foundation loads:			
• max. traction	98%	89.5%	89%
• max. compression	82.5%	88.5%	88.5%
Load: 100%			
• Power factor	98.1%	87.5%	85.0%
• Efficiency	81.3%	89.1%	88.5%
Load: 50%			
• Power factor	97.8%	81.1%	76%
• Efficiency	77.4%	87.0%	86.5%

Maximum reach based on specific track height (in ft)

Type		Magnetic Grabber					
		Height: 12 ft 6 ft from door		Height: 13 ft 7 ft from door		Height: 14 ft 8 ft from door	
		Back in ft (m)	Drive through ft (m)	Back in ft (m)	Drive through ft (m)	Back in ft (m)	Drive through ft (m)
MRP-20	19 (5.8)	24 (7.3)	28 (8.5)	25 (7.6)	30 (9.1)	26 (7.9)	32 (9.8)
MRP-25	23.8 (7.3)	28.8 (8.8)	32.8 (10)	29.8 (9)	33.8 (10.3)	30.8 (9.4)	34.8 (10.6)
MRP-30	28.5 (8.7)	33.5 (10.2)	37.5 (11.4)	34.5 (10.5)	39.5 (12)	35.5 (10.8)	41.5 (12.6)
MRP-35	33.3 (10.1)	38.3 (11.7)	42.5 (13)	39.3 (12)	44.5 (13.6)	40.3 (12.3)	46.5 (14.2)
MRP-40	38 (11.58)	43 (13.1)	47 (14.3)	44 (13.4)	49 (14.9)	45 (13.7)	51 (15.5)
MRP-45	42.8 (13)	47.8 (14.6)	51.8 (15.8)	48.8 (14.9)	53.8 (16.4)	49.8 (15.2)	55.8 (17)
MRP-50	47.5 (14.5)	52.5 (16)	56.5 (17.2)	53.5 (16.3)	58.5 (17.8)	54.5 (16.6)	60.5 (18.4)
MRP-55	51.8 (15.8)	57.3 (17.5)	61.3 (18.7)	58.3 (17.7)	63.3 (19.3)	59.3 (18)	65.3 (19.9)
MRP-60	57 (17.4)	62 (18.9)	66 (20.1)	63 (19.2)	68 (20.7)	64 (19.5)	70 (21.3)
MRP-65	61.8 (19)	66.8 (20.4)	70.8 (21.6)	67.8 (20.7)	72.8 (22.2)	68.8 (21)	74.8 (22.8)
MRP-70	66.5 (20.3)	71.5 (21.8)	75.5 (23)	72.5 (22)	77.5 (23.6)	73.5 (22.4)	79.5 (24.2)
MRP-75	71.3 (21.7)	76.3 (23.3)	80.3 (24.5)	77.3 (23.5)	82.3 (25)	78.3 (23.9)	84.3 (25.7)

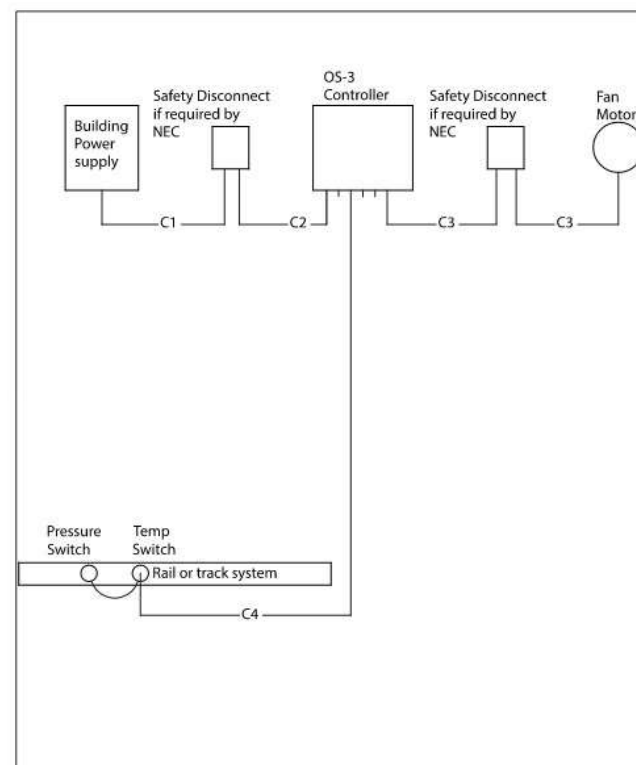
System Specifications			
Type	Length: ft (m)	# of Suspensions	Weight: lbs (kg)
MRP-20	19 (5.8)	2	124 (56.3)
MRP-25	23.8 (7.3)	2	143 (64.9)
MRP-30	28.5 (8.7)	3	162 (73.5)
MRP-35	33.3 (10.1)	3	178 (80.7)
MRP-40	38 (11.6)	4	197 (89.4)
MRP-45	42.8 (13)	4	216 (98)
MRP-50	47.5 (14.5)	5	235 (106.6)
MRP-55	52.8 (16)	5	251 (113.9)
MRP-60	57 (17.4)	6	274 (124.3)
MRP-65	61.8 (18.8)	6	292 (132.4)
MRP-70	66.5 (20.3)	6	311 (141)
MRP-75	71.3 (21.7)	6	328 (148.8)

Support Details			
Length: ft (m)	Brace Length	X1	X2
0 - 1.5 (0 - 0.5)	N/A	0	0
1.5 - 3 (0.5 m - 0.9)	20 in. (0.5 m)	14 in. (0.36 m)	14 in. (0.36 m)
3 - 6 (0.9 - 1.8)	30 in. (0.76 m)	21 in. (0.53 m)	21 in. (0.53 m)
6 - 10 (1.8 - 3)	72 in. (1.8 m)	51 in. (1.3 m)	51 in. (1.3 m)



- Notes:
1. System support method: see fig. 1.3 and support details table.
 2. System location: see system specifications table.
 3. Based on 1 crab and hose assembly; each additional crab/hose adds 40 lbs (18 kg).

VEHICLE EXHAUST SYSTEM		
DESCRIPTION	MODEL #	REMARKS
RAILING	MRP-20	
SUCTION	MAGNETIC GRABBER	
FAN	TEV-559	
CONTROL BOX	OS-3	
PRESSURE SWITCH	PC-600	



ISSUE FOR BID

DUCTLESS SPLIT A/C SCHEDULE		
INDOOR UNIT	MARK	AC-1
	SERVES	ELECT/COMM
	MAX SUPPLY AIR (CFM)	920
	TOTAL COOLING CAPACITY (MBH)	36.0
	MCA	1
	FAN MOTOR FLA	0.264
OUTDOOR UNIT	VOLTS/PHASE/HERTZ	208/1/60
	MODEL NUMBER	PKA4-36KA8
	NOTES	1, 2, 3
	MARK	CU-1
	SERVES	AC-1
	GRAND TOTAL COOLING (MBH)	36
	AMBIENT TEMP. (°F)	105
	S.E.E.R.	19.4
	E.E.R.	10.8
	MCA	25
	MOCP	31
	VOLTS/PHASE/HERTZ	208/1/60
	MODEL NUMBER	PUY4-36KA7
	NOTES	1, 2, 3, 4, 5
	MANUFACTURER	mitsubishi

- NOTES:
1. PROVIDE WITH SINGLE POINT POWER TO INCLUDE CONDENSING UNIT AND REMOTE THERMOSTAT. INDOOR UNIT SHALL BE POWERED FROM OUTDOOR UNIT. PLACE WALL MOUNTED BRACKET TO HOLD REMOTE.
 2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
 3. REFRIGERANT LINES TO BE SIZED BY MANUFACTURER.
 4. PROVIDE SINGLE CIRCUIT CONDENSING UNIT.
 5. PROVIDE AMBIENT SENSOR OVERRIDE.

HVLS FAN SCHEDULE		
MARK		HVLS-01
SERVES		APP. BAY
DIAMETER		14
WEIGHT (LBS)		185
MAX SPEED (RPM)		119
INPUT POWER (VOLTS/PHASE/HERTZ)		208/3/60
MOTOR HORSEPOWER (HP)		1.5
MANUFACTURER		BAF
MODEL		BASIC 6
NOTES		ALL

- NOTES:
1. FAN SHALL BE INTERLOCKED WITH WIRED WALL CONTROLLER.
 2. PROVIDE FAN WITH BRACING AS NECESSARY TO PREVENT SWAYING.
 3. WEIGHT DOES NOT INCLUDE MOUNT OR EXTENSION TUBE.
 4. VERIFY EXTENSION TUBE LENGTH AND MOUNTING BRACKET WITH MANUFACTURER PRIOR TO ORDERING.
 5. EXTENSION TUBES 4' OR LONGER SHALL BE INSTALLED WITH GUY WIRES PER THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
 6. FANS SHALL BE AT THE SAME LEVEL OR HIGHER THAN UNIT HEATERS AND OUTSIDE THE MINIMUM CLEARANCE TO COMBUSTIBLES.

ELECTRIC UNIT HEATER SCHEDULE

MARK	EUH-01
SERVES	FIRE RISER
CFM	350
CAPACITY (KW)	3
VOLTS/PHASE/HERTZ	208/1/60
AMPS	14.5
MANUFACTURER	QMARK
MODEL NUMBER	MUH0381
NOTES	1, 2, 3, 4

- NOTES:
1. PROVIDE WALL MOUNTED THERMOSTAT, LOW VOLTAGE CONTROL TRANSFORMER, UNIVERSAL WALL AND CEILING MOUNTED BRACKET. HEATERS SHALL BE ENERGIZED WHEN TEMPERATURE DROPS BELOW 50°F (ADJ.).
 2. PROVIDE ALL CLEARANCES AS RECOMMENDED BY MANUFACTURER.
 3. PROVIDE WITH WALL MOUNTED THERMOSTAT AND MANUAL SHUT-OFF SWITCH. HEATERS SHALL BE ENERGIZED WHEN TEMPERATURE DROPS BELOW 50°F (ADJ.).
 4. MOUNT EUH AT 8" A.F.F. UNIT TO HAVE ANGLED DOWNWARDS

LOUVER SCHEDULE

MARK	L-1	L-2	L-3	L-4,5	L-6	L-7	L-8
TYPE	EXHAUST	EXHAUST	EXHAUST	EXHAUST	INTAKE	EXHAUST	INTAKE
SIZE (WIDTH X HEIGHT)		36" X 48"	48" X 12"	36" X 48"	36" X 48"		
CFM	695	1,125	300	1,125	2,250	380	2,130
MAX. FREE AREA VELOCITY (FPM)	1000	1500	1000	1000	1000	1000	1000
MIN. FREE AREA (SQ. FT.)	0.70	0.75	0.30	1.13	2.25	0.38	2.13
MODEL	EF-4037-MD	EF-4037-MD	EF-4037-MD	EF-4037-MD	EF-4037-MD	EF-4037-MD	EF-4037-MD
MANUFACTURER	POTTORFF	POTTORFF	POTTORFF	POTTORFF	POTTORFF	POTTORFF	POTTORFF
NOTES	ALL	ALL	ALL	ALL	ALL	ALL	ALL

- NOTES:
1. LOUVER PERFORMANCE SHALL BE RATED IN ACCORDANCE WITH AMCA PUBLICATION 511.
 2. PROVIDE WITH BRD SCREEN.
 3. PROVIDE LOUVERS TO BE AMCA 540 & 550 RATED.

EXHAUST FAN SCHEDULE

MARK	EF-1-1	EF-1-3	EF-2-1	GEF-01,GEF-02	AH-4-FAN
SERVES	EXERCISE, DECON/RR, EXTRACTOR DECON, BUNKER GEAR	JANITOR / RR / CHIEF'S RR / PUBLIC RR	RESTROOMS	APPARATUS BAY 134	EXHAUST PLYMOVENT SYSTEM
TYPE / DRIVE	INLINE / DIRECT	INLINE / DIRECT	INLINE / DIRECT	INLINE / DIRECT	INLINE / DIRECT
CFM (MIN/MAX.)	465	300	380	360 / 1195	--
EXT. S.P. (IN. W.G.)	0.50	0.40	0.40	0.30	--
FAN RPM	1,705	1,825	1,481	3,701	3,515
SONES (MAX.)	8.6	7.9	6.8	25	--
VOLTS/PHASE/HERTZ	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	208 / 1 / 60	208 / 3 / 60
HORSEPOWER	1/6	1/6	1/6	1/2	5
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	PLYMOVENT
MODEL NUMBER	SQ40-4VG	SQ40-4VG	SQ47-M1-4VG	TEV-559	
NOTES	1, 2, 6, 8, 9	1, 2, 6, 8, 9	1, 2, 6, 8, 9	2, 4, 6, 8, 9,10,12	--

- NOTES:
1. Tie fan to lighting controls in associated room.
 2. PROVIDE FAN WITH MOTOR RATED TOGGLE SWITCH AND MOTORIZED DAMPER.
 3. FAN SHALL BE INTERLOCKED WITH WALL MOUNTED THERMOSTAT. FAN SHALL BE ENERGIZED WHEN SPACE TEMPERATURE REACHES 80°F (ADJUSTABLE).
 4. FAN TO BE INTERLOCKED WITH WALL MOUNTED TOGGLE SWITCH.
 5. PROVIDE FAN WITH 45" WEATHERHOOD.
 6. PROVIDE FAN WITH EC MOTOR.
 7. FAN SHALL BE LISTED TO COMPLY WITH UL-762 POWER VENTILATORS FOR RESTAURANT EXHAUST APPLIANCES.
 8. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO FILTERS, HOUSING, NOR ACCESSORIES.
 9. FAN SHALL BE SUSPENDED FROM STRUCTURE ABOVE, PROVIDE WITH VIBRATION ISOLATORS.
 10. PROVIDE WITH MOTORIZED DAMPER INTERLOCKED WITH FAN OPERATION SUCH THAT DAMPER SHALL OPEN WHEN FAN IS DE-ENERGIZED AND SHUT WHEN FAN IS DE-ENERGIZED. DAMPER SHALL BE INSTALLED IN ACCESSIBLE LOCATION.
 12. FAN SHALL BE CONTROLLED VIA WALL MOUNTED 3-WR TIMER SWITCH, MANUAL OVERRIDE SWITCH, WITH 1-WR DIAL TIMER, AND INTERLOCKED WITH GAS DETECTION SYSTEM IN APP BAY.

OUTSIDE AIR HANDLING UNIT SCHEDULE

MARK		OAH-U1
TYPE		SUSPENDED HORIZONTAL DRAWN-THRU
SUPPLY AIR (CFM)		1,300
SUPPLY AIR DISCHARGE DIRECTION		FRONT
OUTSIDE AIR INLET CONNECTION		BACK
FAN TYPE		DIRECT DRIVE
EXT. S.P. (IN. W.G.)		0.8
TOTAL S.P. (IN. W.G.)		1.66
DRIVE TYPE		DIRECT
DRIVE TYPE		ECM
VOLTS/PHASE/HERTZ		208/3/60
UNIT MCA		58.00
UNIT MOP		60.00
FAN BRAKE HORSEPOWER		0.59
SUPPLY FAN FULL LOAD AMPS (FLA)		2.3
SUPPLY FAN MOTOR HORSEPOWER		1.00
APPROX. SUPPLY FAN RPM		1,297
UNIT WEIGHT - LBS		625
ELEC-HEAT COIL	MAX. COIL FACE VELOCITY (FPM)	700
	HEATING COIL CFM	1,300
	EAT (°F)	20
	LAT (°F)	55
	STEPS	MODULATING
DX COOLING COIL	MINIMUM HEATING CAPACITY (KW)	14.4
	MAX. COIL FACE VELOCITY (FPM)	500
	COOLING COIL CFM	1,300
	EAT DB (°F)	84.8
	EAT WB (°F)	81.5
	LAT DB (°F)	55.0
	LAT WB (°F)	54.0
	TOTAL COOLING CAPACITY (MBH)	132.9
	SENSIBLE COOLING CAPACITY (MBH)	41.8
FILTER DATA	POSITION	FLAT
	TYPE	MINI-PLEATED DISPOSABLE
	THICKNESS - INCHES	2" PLETED 30% MERV 8 WITH 4" MERV 13
	AIR FILTER PRESSURE DROP - CLEAN (IN. W.G.)	0.30
	DIRTY AIR FILTER PRESSURE DROP ALLOWANCE (IN. W.G.)	0.60
MINIMUM MERV RATING		13
MANUFACTURER		AAON
MODEL NUMBER		H3-C
NOTES		ALL

- NOTES:
1. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO COIL(S), FILTERS, HOUSING, NOR ACCESSORIES.
 2. PROVIDE EPOXY COATED EVAPORATOR AND MODULATING HOT GAS REHEAT COIL.
 3. DIRTY FILTER ALLOWANCE AT 0.5 INCH W.G. IN ADDITION TO CLEAN FILTER PRESSURE DROP NEED TO BE INCLUDED IN THE SUPPLY FAN TOTAL PRESSURE DROP CALCULATION.
 4. UNIT MANUFACTURER TO PROVIDE DEDICATED CONTROLLER. CONTROLLER SHALL BE ABLE TO STAGE THE COMPRESSOR TO MEET 55°F LEAVING AIR TEMPERATURE OFF THE COIL (ADJ.). UNIT SHALL BE PROVIDED WITH MODULATING HOT GAS REHEAT COIL - UNIT CONTROLLER SHALL BE ABLE TO REHEAT LEAVING AIR TEMPERATURE TO 70°F (ADJ.).
 5. PROVIDE RELAY TO FIRE ALARM SYSTEM. IN THE EVENT FIRE ALARM IS ACTIVATED, RELAY SHALL SHUT OFF MECHANICAL UNIT.
 6. PROVIDE TIME DELAY RELAY FOR EACH FAN COIL UNIT TO ALLOW THEM TO START UP IN 30 SECOND INTERVALS IN THE EVENT OF A POWER LOSS.
 7. PROVIDE SINGLE POINT CONNECTION.
 8. UNIT SHALL RUN CONTINUOUSLY.

OUTSIDE AIR COOLED CONDENSING UNIT SCHEDULE

MARK	OACU-1
SERVES	OAH-U1
UNIT SIZE (TONS)	13
NET TOTAL COOLING CAPACITY (MBH)	138.1
EFFICIENCY (SEER)	5.8
AMBIENT TEMP. (°F)	105
REFRIGERANT TYPE	R-454B
NUMBER STAGES OF COOLING	MODULATING
MCA (MINIMUM CIRCUIT CAPACITY) - AMPS	68
MOCP (MAXIMUM OVER-CURRENT PROTECTION) - AMPS	80
VOLTS/PHASE/HERTZ	208/3/60
MANUFACTURER	AAON
MODEL NUMBER	CFA-013
NOTES	ALL

- NOTES:
1. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
 2. PROVIDE ALL CLEARANCES AS REQUIRED BY EQUIPMENT MANUFACTURER.
 3. PROVIDE DIGITAL COMPRESSOR ON BOTH CIRCUITS
 4. PROVIDE 5 YEAR PART WARRANTY AND 5 YEAR COMPRESSOR WARRANTY.
 5. PROVIDE MODULATING HOT GAS REHEAT
 6. PROVIDE VARIABLE FREQUENCY DRIVE ON CONDENSER FAN FOR HEAD PRESSURE CONTROL.
 7. PROVIDE NON-USED DISCONNECT.
 8. PROVIDE TIME DELAY RELAY FOR EACH CONDENSING UNIT TO ALLOW THEM TO START UP AFTER 30 SECONDS AND IN 30 SECOND INTERVALS IN THE EVENT OF A POWER LOSS.
 9. MOUNT UNIT ON ELEVATED PLATFORM AT A MINIMUM OF 1' ABOVE BASE FLOOD PLAIN ELEVATION OF 80.6' (81.6') COORDINATE PLATFORM REQUIREMENTS WITH CIVIL, STRUCTURAL AND ARCHITECTURAL.
 10. PROVIDE UNIT REFRIGERANT WITH LONG LINE KIT.
 11. PROVIDE EPOXY COATED CONDENSER COIL.

GAS UNIT HEATER SCHEDULE

MARK	GUH-1 THRU GUH-4
SERVES	APPARATUS BAY
MFR. PROVIDED INPUT (MBH)	100.0
MIN. DESIGN OUTPUT (MBH)	70.7
CFM	1,345
TYPE OF FUEL	NATURAL GAS
GAS INLET (INCHES)	1/2
VENT CONNECTION (INCHES)	4
FAN MOTOR HP	0.08
VOLTS / PHASE / HERTZ	120/1/60
MANUFACTURER	REZNOR
MODEL	UDXC
NOTES	ALL

- NOTES:
1. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
 2. PROVIDE WITH HANGER KIT, OUTSIDE COMBUSTION AIR INLET KIT, AND VENT CAP.
 3. PROVIDE WITH WALL MOUNTED THERMOSTAT AND MANUAL SHUT-OFF SWITCH. HEATERS SHALL BE ENERGIZED WHEN TEMPERATURE DROPS BELOW 40°F (ADJ.).
 4. MOUNT UNIT AT 14" ± 6" COORDINATE WITH GARAGE DOORS AND PLYMOVENT TO ENSURE OBSTRUCTION DONT OCCUR.

DX FAN COIL UNIT SCHEDULE

MARK	FCU-1-1	FCU-1-2	FCU-1-3	FCU-1-4	FCU-2-1	FCU-2-2	MAFCU-1
SERVES	CONFERENCE ROOM / LOBBY / WATCH ROOM	CHIEF / ADMIN	DECON / SHOP / EMS STORAGE	KITCHEN / DINING / EXERCISE	SLEEPING / CORRIDOR / STAIRS	STORAGE / STAIRS / RR / CORRIDOR	KITCHEN HOOD
UNIT CONFIGURATION	VERTICAL SUPPLY DISCHARGE BOTTOM RETURN	VERTICAL SUPPLY DISCHARGE BOTTOM RETURN	VERTICAL SUPPLY DISCHARGE BOTTOM RETURN	VERTICAL SUPPLY DISCHARGE BOTTOM RETURN	VERTICAL SUPPLY DISCHARGE BOTTOM RETURN	VERTICAL SUPPLY DISCHARGE BOTTOM RETURN	VERTICAL SUPPLY DISCHARGE BOTTOM RETURN
DISCHARGE CONFIGURATION	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL
FAN	TYPE	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE
	SUPPLY AIR (CFM)	2,050	1,690	1,080	2,300	1,620	2,700
	OUTDOOR AIR (CFM)	175	175	150	380	250	165
	FAN TYPE	ECM	ECM	ECM	ECM	ECM	ECM
	EXT. S.P. (IN. W.G.)	0.65	0.65	0.5	0.5	0.5	1.00
	VOLTS/PHASE/HERTZ	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60
EX COOLING COIL	FAN MOTOR HORSEPOWER	1.5	1	1	2.8	1	1
	MAX. COIL FACE VELOCITY (FPM)	500	500	500	500	500	500
	COIL CFM	2,050	1,690	1,080	2,300	1,620	2,700
	EAT DB(WB) (°F)	70.0 / 60.9	70.0 / 60.9	70.0 / 60.9	70.0 / 60.9	70.0 / 60.9	84.8 / 81.5
	LAT DB(WB) (°F)	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54	75 / 62.5
	TOTAL COOLING CAPACITY (MBH)	41.0	33.8	21.5	45.7	32.3	54.1
SPLITTING COIL	SENSIBLE COOLING CAPACITY (MBH)	33.2	27.4	17.5	37.3	26.2	43.7
	REFRIGERANT TYPE	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B
	MAX. COIL FACE VELOCITY (FPM)	500	500	500	500	500	500
	HEATING COIL CFM	1,435	1,185	760	1,610	1,135	1,890
	EAT (°F)	70.5	70.8	70.8	69.2	70.0	71.0
	LAT (°F)	85.0	85.0	85.0	85.0	85.0	80.0
	VOLTS/PHASE/HERTZ	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60
	DESIGN HEATING KW	6.59	5.40	3.42	8.05	5.39	8.38
	COIL SIZE (KW)	10.00	10.00	5.00	10.00	10.00	16.00
	MANUFACTURER	Internal to unit	Internal to unit	Internal to unit	Internal to unit	Internal to unit	Internal to unit
	MODEL						
MCA	44.24	40.49	23.12	48.74	40.49	44.24	40.49
MOCP	45	45	25	50	45	45	45
MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL NUMBER	BCXE	BCXE	BCXE	BCXE	BCXE	BCXE	BCVE036
UNIT WEIGHT (LBS)	367	303	262	418	303	418	245
NOTES	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	1,2,3,4,7,8,9,11

- NOTES:
1. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO COIL(S), FILTERS, HOUSING, NOR ACCESSORIES.
 2. REFRIGERANT LINES TO BE SIZED BY MANUFACTURER. INSTALL PER MANUFACTURERS SPECIFICATIONS.
 3. PROVIDE UNIT WITH STAINLESS STEEL DRAIN PAN WITH DRAIN PAN OVERFLOW SWITCH.
 4. PROVIDE UNIT WITH 2" MERV 13 FILTERS.
 5. UNIT DISCHARGE, INCLUDING ELECTRIC HEATING MODULE TO BE VERTICAL. THIRD PARTY HEATING MODULES TO BE POWERED AND CONTROLLED BY UNIT THROUGH SINGLE POINT POWER CONNECTION. MCAMOCP SHOWN ARE TOTAL SINGLE POINT POWER REQUIREMENTS FOR BOTH FCU AND EXTERNAL HEATING COIL. WARREN "AUTOFORMER" STEP-DOWN TRANSFORMER TO BE PROVIDED TO POWER FCU.
 7. PROVIDE RELAY TO FIRE ALARM SYSTEM. IN THE EVENT FIRE ALARM IS ACTIVATED, RELAY SHALL SHUT OFF MECHANICAL UNIT.
 8. UNIT SHALL BE SUSPENDED FROM STRUCTURE ABOVE. PROVIDE WITH VIBRATION ISOLATION PER SPECIFICATIONS.
 9. PROVIDE TIME DELAY RELAY FOR EACH FAN COIL UNIT TO ALLOW FOR UNIT TO START UP IN 30 SECONDS INTERVALS IN EVENT OF A POWER LOSS.
 10. UNITS SHALL BE CONTROLLED BY SINGLE WALL MOUNTED THERMOSTAT (PER LOCATIONS ON M2.11).
 11. UNIT SHALL BE CONTROLLED WITH HOOD CONTROL SWITCH. MAKEUP AIR FAN SHALL BE INTERLOCKED WITH EXHAUST FAN.

FCU CONDENSING UNIT SCHEDULE

MARK	ACCU-1-1	ACCU-1-2	ACCU-1-3	ACCU-1-4	ACCU-2-1	ACCU-2-2	ACCU-1-5
SERVES	FCU-1-1	FCU-1-2	FCU-1-3	FCU-1-4	FCU-2-1	FCU-2-2	MAFCU-1
NOMINAL TONNAGE	5	4	3	5	4	5	7.5
REFRIGERANT	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B
MCA	20.9	16.2	16.6	20.9	16.2	20.9	38
MOCP	35	25	25	35	25	35	60
AMBIENT (°F)	105	105	105	105	105	105	105
NOMINAL COOLING CAPACITY (MBH)	60.0	48.0	36.0	60.0	48.0	60.0	90.0
NUMBER OF REFRIGERANT CIRCUITS	1	1	1	1	1	1	1
COMPRESSOR TYPE	1-STAGE SCROLL	1-STAGE SCROLL	1-STAGE SCROLL	1-STAGE SCROLL	1-STAGE SCROLL	1-STAGE SCROLL	1-STAGE SCROLL
UNIT VOLTS / PHASE / HERTZ	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60
UNIT WEIGHT -LBS	252	307	183	252	307	252	309
MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL NO.	5TTR	5TTR	5TTR	5TTR	5TTR	5TTR	TTA090K3AAA
AHRI SEER2	15	15	15	15	15	15	--
NOTES	ALL	ALL	ALL	ALL	ALL	ALL	ALL

- NOTES:
1. PROVIDE WITH WEATHERPROOF DISCONNECT SWITCH.
 2. ROUTE AND SIZE REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 3. PROVIDE SUCTION PRESSURE TRANSDUCER.
 4. PROVIDE TIME DELAY SUCH THAT EACH UNIT STARTS UP IN 30-SECOND INTERVALS IN THE EVENT OF A POWER LOSS.
 5. MOUNT UNIT ON 4" HOUSEKEEPING PAD, COORDINATE PAD REQUIREMENTS WITH CIVIL, STRUCTURAL, AND ARCHITECTURAL.
 6. PROVIDE UNIT REGRIGERANT WITH LONG LINE KIT.

AIR DEVICE SCHEDULE

MARK	MFR. & MODEL	TYPE	REMARKS
A	TITUS OMNI AA	24"x24" SQUARE FACE SUPPLY AIR GRILLE	24"x24" FACE, ALUMINUM CONSTRUCTION WITH FRAME FOR LAY-IN CEILING OR HARD CEILING, DEPENDING ON CEILING TYPE.
B	TITUS OMNI AA	24"x24" SQUARE FACE RETURN AIR GRILLE	ALUMINUM CONSTRUCTION WITH FRAME FOR LAY-IN CEILING OR HARD CEILING. DEPENDING ON CEILING TYPE. REFER TO ARCHITECTURAL PL

OUTSIDE AIR CALCULATIONS - OAHU-01

ZONE NUMBER	ROOM NAME	OCCUPANCY CATEGORY	ZONE FLOOR AREA A _z	ZONE DISCHARGE AIRFLOW V _{dz}	ZONE PRIMARY AIRFLOW V _{pz}	OCCUPANCY DENSITY #/1000 FT ²	ZONE POPULATION P _z	PEOPLE OUTDOOR AIR RATE P _p	AREA OUTDOOR AIR RATE R _a	BREATHING ZONE OUTDOOR AIRFLOW V _{bz}	ZONE AIR DIST. EFF. E _z	ZONE OUTDOOR AIRFLOW V _{oz} [V _{bz} /E _z]	ZONE REGR. FRACTION E _r	ZONE PRIMARY AIR FRACTION E _p [V _{pz} /V _{oz}]	PRIMARY OUTDOOR AIR FRACTION Z _{oz} [V _{oz} /V _{oz}]	SUPPLY AIR FRACTION F _s [E _p + (1-E _p) E _r]	MIXED AIR FRACTION F _m [E _r]	OUTDOOR AIR FRACTION F _o [(1-E _z) (1-E _r) (1-E _m)]	ZONE VENTILATION EFFICIENCY E _{vz} APPENDIX A
FOL-1-1	1-CONFERENCE RM 104	CONFERENCE/MEETING	285	870	130.5	50	10.0	5	0.06	67	1.0	67	0.50	0.15	0.51	0.58	0.15	1.00	1.02
	1-LOBBY 101	LOBBIES	203	350	52.5	150	1.0	5	0.06	17	1.0	17	0.50	0.15	0.33	0.58	0.15	1.00	1.07
	1-CORRIDOR 1	CORRIDORS	103	80	12	0	0.0	0	0.06	6	1.0	6	0.50	0.15	0.52	0.58	0.15	1.00	1.02
	1-WATCH ROOM 105	OFFICE SPACES	151	180	27	5	3.0	5	0.06	24	1.0	24	0.50	0.15	0.89	0.58	0.15	1.00	0.92
	1-FILE STORAGE 109	STORAGE ROOMS	98	50	11.78	0	0.0	0	0.12	12	1.0	12	0.50	0.24	1.00	0.62	0.24	1.00	0.84
	1-CORRIDOR 2	CORRIDORS	181	50	10.86	0	0.0	0	0.06	11	1.0	11	0.50	0.22	1.00	0.61	0.22	1.00	0.85
FOL-1-2	1-AIRLOCK 120	CORRIDORS	79	50	7.5	0	0.0	0	0.06	5	1.0	5	0.50	0.15	0.63	0.58	0.15	1.00	0.99
	1-UTILITY ROOM 121	STORAGE ROOMS	97	420	63	0	0.0	0	0.12	12	1.0	12	0.50	0.15	0.18	0.58	0.15	1.00	1.10
	1-CHIEF'S OFFICE	OFFICE SPACES	259	250	37.5	5	1.0	5	0.06	21	1.0	21	0.50	0.15	0.55	0.58	0.15	1.00	1.01
	1-CHIEF'S SLEEPING 108	BEDROOM/LIVING ROOM	135	270	40.5	10	1.0	5	0.06	13	1.0	13	0.50	0.15	0.32	0.58	0.15	1.00	1.07
	1-PUBLIC RR	CORRIDORS	62	50	7.5	0	0.0	0	0.06	4	1.0	4	0.50	0.15	0.50	0.58	0.15	1.00	1.02
	1-TREATMENT 102	OFFICE SPACES	79	100	15	5	1.0	5	0.06	10	1.0	10	0.50	0.15	0.65	0.58	0.15	1.00	0.98
FOL-1-3	1-CHIEF'S RR	BATHROOM/TOILET PRIVATE	60	50	7.5	0	0.0	0	0	0	1.0	0	0.50	0.15	0.00	0.58	0.15	1.00	1.15
	1-CORRIDOR 3	CORRIDORS	152	75	11.25	0	0.0	0	0.06	9	1.0	9	0.50	0.15	0.81	0.58	0.15	1.00	0.94
	1-ADMIN CAPTAIN 112	OFFICE SPACES	125	210	31.5	5	1.0	5	0.06	13	1.0	13	0.50	0.15	0.40	0.58	0.15	1.00	1.05
	1-ADMIN. ASSIST 110	OFFICE SPACES	125	200	30	5	1.0	5	0.06	13	1.0	13	0.50	0.15	0.42	0.58	0.15	1.00	1.04
	1-COMPANY OFFICER 114	OFFICE SPACES	125	185	27.75	5	1.0	5	0.06	13	1.0	13	0.50	0.15	0.45	0.58	0.15	1.00	1.03
	1-STORAGE 116	STORAGE ROOMS	125	200	30	0	1.0	0	0.12	15	1.0	15	0.50	0.15	0.50	0.58	0.15	1.00	1.02
FOL-1-4	1-JANTOR 117	STORAGE ROOMS	52	50	7.5	0	0.0	0	0.12	6	1.0	6	0.50	0.15	0.83	0.58	0.15	1.00	0.93
	1-RESTROOM 111	BATHROOM/TOILET PRIVATE	78	50	7.5	0	0.0	0	0	0	1.0	0	0.50	0.15	0.00	0.58	0.15	1.00	1.15
	1-SHOP	OFFICE SPACES	186	195	29.25	5	1.0	5	0.06	15	1.0	15	0.50	0.15	0.51	0.58	0.15	1.00	1.02
	1-BUNKER GEAR	LOCKER/DRESSING ROOM	308	280	42	0	0.0	0	0	0	1.0	0	0.50	0.15	0.00	0.58	0.15	1.00	1.15
	1-DECON RR 129	CORRIDORS	70	50	7.5	0	0.0	0	0.06	4	1.0	4	0.50	0.15	0.58	0.58	0.15	1.00	1.00
	1-DECON RR 128	CORRIDORS	73	50	7.5	0	0.0	0	0.06	4	1.0	4	0.50	0.15	0.58	0.58	0.15	1.00	1.00
FOL-1-5	1-EXTRACTOR / DECON	COMMERCIAL DRY CLEANER	246	245	221.4	30	7.4	30	0	221	1.0	221	0.50	0.90	1.00	0.95	0.90	1.00	0.60
	1-AIRLOCK 126	CORRIDORS	121	130	19.5	0	0.0	0	0.06	7	1.0	7	0.50	0.15	0.37	0.58	0.15	1.00	1.05
	1-EMS STORAGE 133	STORAGE ROOMS	60	130	19.5	0	0.0	0	0.12	7	1.0	7	0.50	0.15	0.37	0.58	0.15	1.00	1.05
	1-KITCHEN / DINING 123	KITCHENS (COOKING)	486	400	60	0	12.0	0	0.12	58	1.0	58	0.50	0.15	0.97	0.58	0.15	1.00	0.90
	1-DAYROOM 124	BEDROOM/LIVING ROOM	569	800	120	10	8.0	5	0.06	74	1.0	74	0.50	0.15	0.62	0.58	0.15	1.00	0.99
	1-EXERCISE 125	GYM, STADIUMS, ARENA (PLAY...)	509	1100	165	0	4.0	0	0.3	153	1.0	153	0.50	0.15	0.93	0.58	0.15	1.00	0.91
FOL-2-1	2-CORRIDOR 1	CORRIDORS	389	160	24	0	0.0	0	0.06	23	1.0	23	0.50	0.15	0.97	0.58	0.15	1.00	0.80
	2-RR-210	BATHROOM/TOILET PRIVATE	91	50	7.5	0	0.0	0	0	0	1.0	0	0.50	0.15	0.00	0.58	0.15	1.00	1.15
	2-RR-211	BATHROOM/TOILET PRIVATE	87	50	7.5	0	0.0	0	0	0	1.0	0	0.50	0.15	0.00	0.58	0.15	1.00	1.15
	2-SLEEPING 206	BEDROOM/LIVING ROOM	101	145	21.75	10	1.0	5	0.06	11	1.0	11	0.50	0.15	0.51	0.58	0.15	1.00	1.02
	2-SLEEPING 207	BEDROOM/LIVING ROOM	101	145	21.75	10	1.0	5	0.06	11	1.0	11	0.50	0.15	0.51	0.58	0.15	1.00	1.02
	2-SLEEPING 208	BEDROOM/LIVING ROOM	101	145	21.75	10	1.0	5	0.06	11	1.0	11	0.50	0.15	0.51	0.58	0.15	1.00	1.02
FOL-2-2	2-SLEEPING 209	BEDROOM/LIVING ROOM	112	145	21.75	10	1.0	5	0.06	12	1.0	12	0.50	0.15	0.54	0.58	0.15	1.00	1.01
	1-L-STAIRS	CORRIDORS	200	100	15	0	0.0	0	0.06	12	1.0	12	0.50	0.15	0.80	0.58	0.15	1.00	0.94
	1-L-STAIRS	CORRIDORS	200	100	15	0	0.0	0	0.06	12	1.0	12	0.50	0.15	0.80	0.58	0.15	1.00	0.94
	2-SLEEPING 202	BEDROOM/LIVING ROOM	99	145	21.75	10	1.0	5	0.06	11	1.0	11	0.50	0.15	0.50	0.58	0.15	1.00	1.02
	2-SLEEPING 203	BEDROOM/LIVING ROOM	101	145	21.75	10	1.0	5	0.06	11	1.0	11	0.50	0.15	0.51	0.58	0.15	1.00	1.02
	2-SLEEPING 204	BEDROOM/LIVING ROOM	101	145	21.75	10	1.0	5	0.06	11	1.0	11	0.50	0.15	0.51	0.58	0.15	1.00	1.02
FOL-2-3	2-SLEEPING 205	BEDROOM/LIVING ROOM	101	145	21.75	10	1.0	5	0.06	11	1.0	11	0.50	0.15	0.51	0.58	0.15	1.00	1.02
	2-STORAGE 220	STORAGE ROOMS	988	1800	270	0	8.0	0	0.12	119	1.0	119	0.50	0.15	0.44	0.58	0.15	1.00	1.04
	1-L-STAIRS 122	CORRIDORS	115	80	12	0	0.0	0	0.06	7	1.0	7	0.50	0.15	0.58	0.58	0.15	1.00	1.00
	1-L-STAIR 122	CORRIDORS	115	80	12	0	0.0	0	0.06	7	1.0	7	0.50	0.15	0.58	0.58	0.15	1.00	1.00
	2-RR-212	BATHROOM/TOILET PRIVATE	84	50	7.5	0	0.0	0	0	0	1.0	0	0.50	0.15	0.00	0.58	0.15	1.00	1.15
	2-RR-213	BATHROOM/TOILET PRIVATE	87	50	7.5	0	0.0	0	0	0	1.0	0	0.50	0.15	0.00	0.58	0.15	1.00	1.15
FOL-2-4	2-COORDIOR 2.1	CORRIDORS	129	160	24	0	0.0	0	0.06	8	1.0	8	0.50	0.15	0.32	0.58	0.15	1.00	1.07
	2-COORDIOR 3	CORRIDORS	230	480	72	0	0.0	0	0.06	14	1.0	14	0.50	0.15	0.19	0.58	0.15	1.00	1.10

CONDITIONED ANALYZED	HEATING	
VENTILATION CODE	2018IMC	
SYSTEM AREA	A_s [E' A _z]	8714
SYSTEM POPULATION	P _s	
SUM OF ZONE POPULATION	$\sum P_z$	69
OCCUPANT DIVERSITY	D	1.00
UNCORRECTED OUTDOOR AIR INTAKE	$V_{ou} [D \cdot \sum (P_p P_z) + \sum (R_a A_z)]$	1103
SYSTEM PRIMARY AIRFLOW	V _{ps}	1908.27
AVERAGE OUTDOOR AIR FRACTION	$X_s [V_{ou} / V_{ps}]$	0.58
MINIMUM (EVZ)		0.60
OUTDOOR AIR INTAKE FLOW	$V_{ot} [V_{ou}/E_v]$	1840
OUTDOOR AIR INTAKE FLOW PROVIDED		1300

BUILDING PRESSURIZATION CALCULATION - FS - KEF OFF

ZONE	TAG	MAX OA CFM	MIN OA CFM	EXHAUST CFM	ZONE NET CFM	ZONE NET PRESSURIZATION%
FIRE STATION	FOL-1-1	175	-	-	150	11.6%
	FOL-1-2	175	-	-		
	FOL-1-3	150	-	-		
	FOL-1-4	380	-	-		
	FOL-2-1	250	-	-		
	FOL-2-2	165	-	-		
	MAFOL-1	-	-	-		
	EF-1-1	-	-	465		
	KEF-1	-	-	-		
	EF-1-3	-	-	300		
	EF-2-1	-	-	380		

BUILDING PRESSURIZATION	BUILDING POSITIVE %
150	11.6%

BUILDING PRESSURIZATION CALCULATION - FS - KEF ON

ZONE	TAG	MAX OA CFM	MIN OA CFM	EXHAUST CFM	ZONE NET CFM	ZONE NET PRESSURIZATION%
FIRE STATION	FOL-1-1	175	-	-	150	6.2%
	FOL-1-2	175	-	-		
	FOL-1-3	150	-	-		
	FOL-1-4	380	-	-		
	FOL-2-1	250	-	-		
	FOL-2-2	165	-	-		
	MAFOL-1	1125	-	-		
	EF-1-1	-	-	465		
	KEF-1	-	-	1125		
	EF-1-3	-	-	300		
	EF-2-1	-	-	380		

BUILDING PRESSURIZATION	BUILDING POSITIVE %
150	6.2%



4/24/2025

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EXP. DATE 08/31/2025
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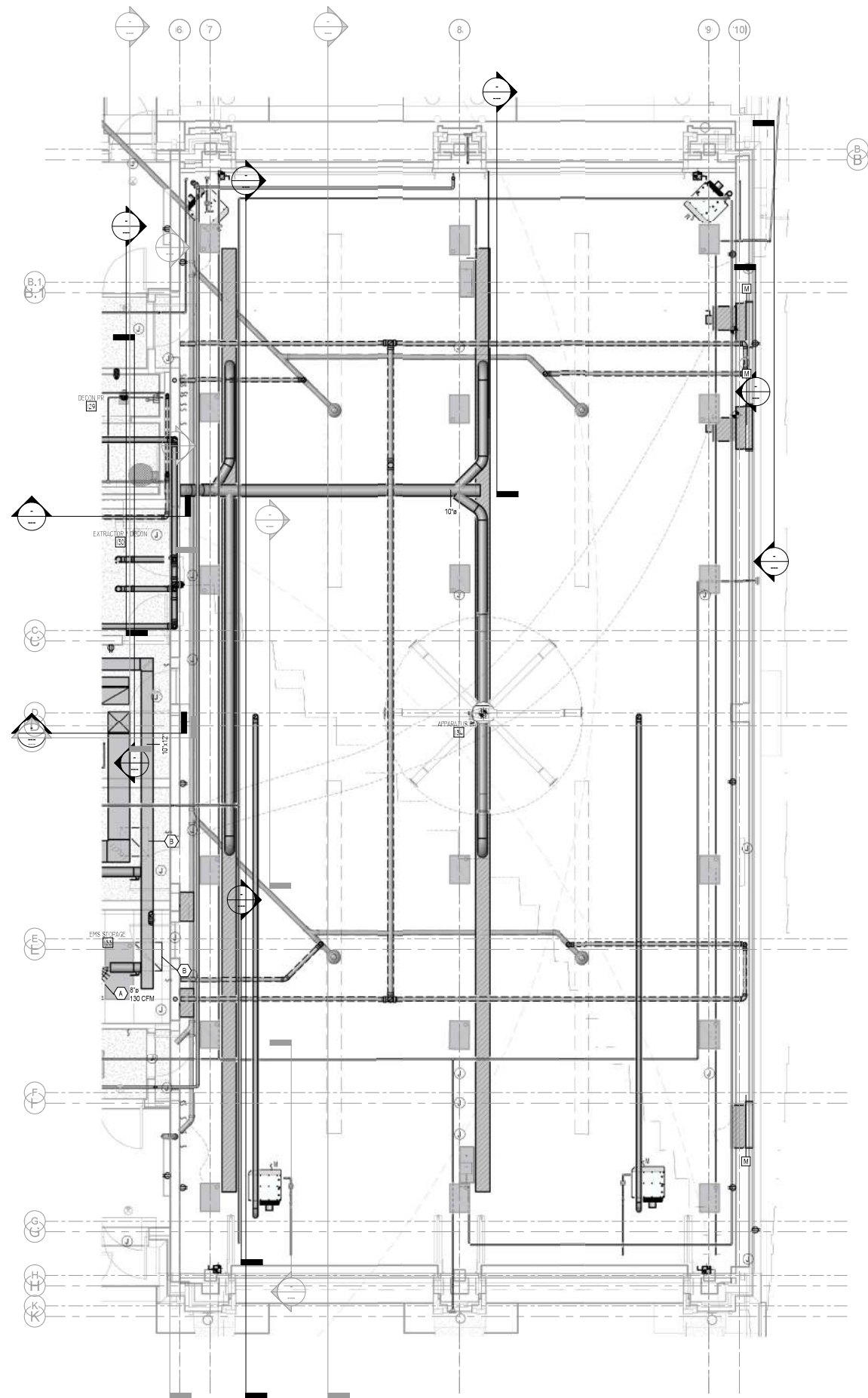
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M5.02

OUTSIDE AIR CALCULATIONS

ISSUE FOR BID



COMBINED MEP APPARATUS BAY PLAN FOR
COORDINATION PURPOSES ONLY. REFER TO
SHEETS M2.11, E1.11, & P2.11 FOR INDIVIDUAL
DETAILED PLANS.

 **FIRST LEVEL MECHANICAL PLAN - APPARATUS BAY**
1/4" = 1'-0"



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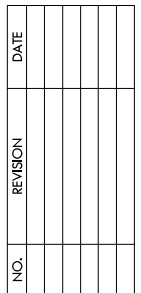
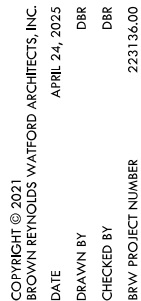
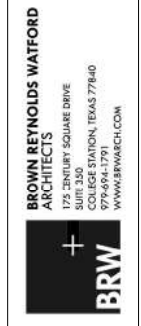
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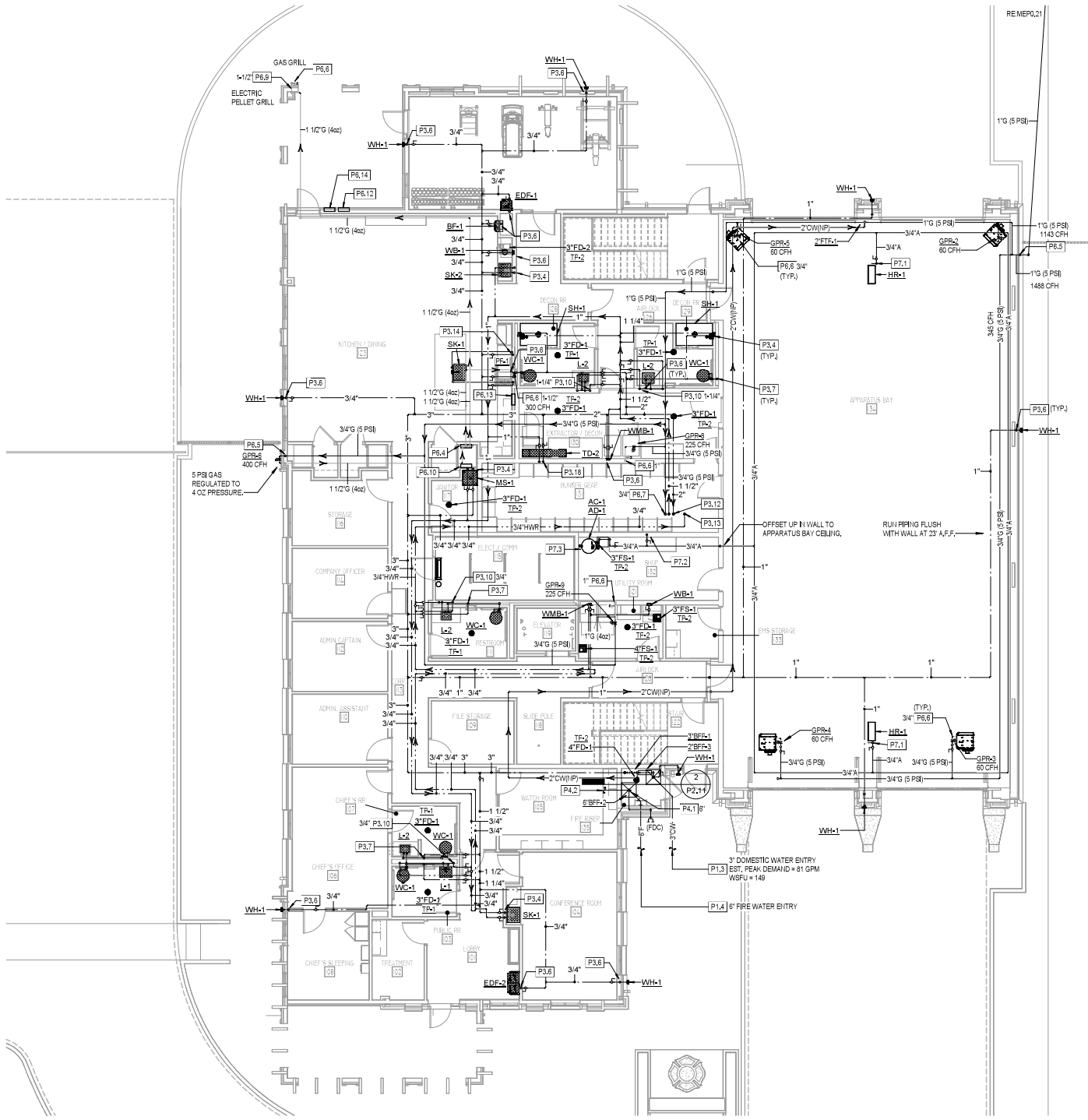



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MEP0.23
MEP APPARATUS BAY

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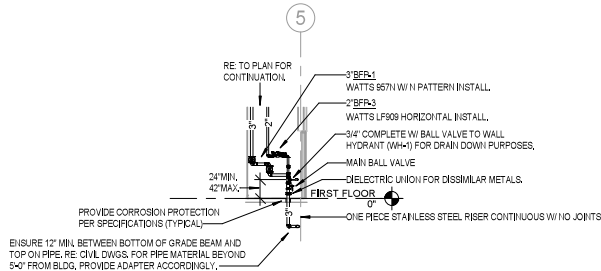




 **1** **FIRST LEVEL PLUMBING PLAN - DOMESTIC WATER, AIR, AND NATURAL GAS**
P2.11 1/8" = 1'-0"

PLUMBING GENERAL NOTES

- ALL FLOOR DRAINS/SINKS SHALL BE PROVIDED WITH PROSET OR EQUAL TRAP PRIMER.
- ALL PIPING WITHIN APPARATUS BAY SHALL BE ROUTED AS HIGH AND TIGHT TO STRUCTURE AS POSSIBLE. FIELD COORDINATE WITH ALL OTHER TRADES.
- ALL PIPING WITHIN UNCONDITIONED ROOMS SHALL BE INSULATED AND PROVIDED WITH A METAL JACKET PER THE SPECIFICATIONS.
- DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES. REFER TO RISER DIAGRAMS FOR MORE SIZING INFORMATION AND REQUIREMENTS.
- PROVIDE ROUGH-INS AS REQUIRED FOR ALL FIXTURES AND EQUIPMENT PROVIDED BY SEPARATE DIVISION AND/OR OWNER. PROVIDE ALL MATERIALS AND LABOR TO INSTALL AND MAKE RIGID CONNECTIONS TO ALL EQUIPMENT. ALL CONNECTIONS FOR EQUIPMENT TO BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF HEALTH DEPARTMENT AND PLUMBING CODES.
- CONTRACTOR SHALL COORDINATE LOCATION AND MOUNTING HEIGHTS OF ALL PLUMBING DEVICES WITH CABINETS, MILLWORK, ETC. PRIOR TO INSTALLATION. ALL DEVICES INSTALLED WITHOUT BEING COORDINATE SHALL BE RELOCATED BY THE CONTRACTOR AT NO ADDITIONAL COST.
- COORDINATE ROUTING OF PIPING WITH STRUCTURAL ELEMENTS PRIOR TO INSTALLATION.
- ALL VENTS SHALL TERMINATE AT A MINIMUM OF 10'-0" AWAY FROM OUTSIDE AIR INTAKES. MODIFY AND EXTEND PIPING AS NECESSARY.
- PROVIDE SLEEVES FOR ALL GAS LINES PASSING THRU CONCRETE SLAB.
- ROUTE AIR AND GAS LINES ALONG THE PERIMETER AND AS HIGH AND TIGHT TO STRUCTURE AS POSSIBLE. CONFIRM ALL ROUTING WITH ARCHITECT.



 **2** **DOMESTIC WATER ENTRY W/ BACKFLOW**
P2.11 NOT TO SCALE

GENERAL NOTE: ISIMET SYSTEM

THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THE ISIMET SYSTEM AND ANY RELAYS REQUIRED. THE PLUMBING CONTRACTOR SHALL ONLY INSTALL THE EBV'S AND MAKE CONNECTIONS TO GAS PIPING. ELECTRICAL IS RESPONSIBLE FOR EVERYTHING ELSE.

FOR ISIMET SYSTEM (AUTOMATIC GAS SHUT-OFF SYSTEM)

PLUMBING CONTRACOR SHALL INSTALL TWO (2) ELECTRONIC BALL VALVES (EBV) IN THE ISIMET S-SERIES PANEL PROVIDED BY ELECTRICAL CONTRACTOR.

- TWO EBV'S (2) REQUIRED:
(1) - KITCHEN RANGE/OVEN
(1) - EXTERIOR GAS GRILL

* RANGE/OVEN IGNITORS SHALL BE CONTROLLED THROUGH THE E-SERIES PANEL AND FLAV2.

* ELECTRICAL CONTRACTOR SHALL PURCHASE S-SERIES PANEL WITH TWO (2) EBV'S FOR THE ISIMET AUTOMATIC GAS SHUT-OFF SYSTEM. PLUMBING CONTRACTOR SHALL INSTALL THE S-SERIES PANEL, EBV'S, AND MAKE CONNECTIONS. ALL OTHER WIRING, TERMINATIONS, ETC. ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

* ELECTRICAL CONTRACTOR SHALL INSTALL ALL LOW VOLTAGE AND HIGH VOLTAGE CONDUCTORS REQUIRED.

REFER TO ELECTRICAL PLAN FOR ADDITIONAL INFORMATION PRIOR TO ROUGH-IN.

PLUMBING KEYED NOTES

- P1.3 DOMESTIC WATER SERVICE. SIZE AND AID PEAK FLOW RATE AS NOTED.
- P1.4 FIRE PROTECTION WATER SERVICE. SIZE AS NOTED.
- P3.4 DROP AND EXTEND 3/4" HOT AND COLD WATER TO SERVE FIXTURE(S).
- P3.6 DROP AND EXTEND 3/4" COLD WATER TO SERVE FIXTURE(S).
- P3.7 DROP AND EXTEND MINIMUM 1/2" COLD WATER TO SERVE FIXTURE(S).
- P3.10 HOT WATER DROP DOWN TO, RISE UP FROM AND CIRCULATE HOT WATER LINE INSIDE WALLCHASE AND WITHIN 2'-0" OF HOT WATER ROUGH-IN TO LAVATORY FOR 2015 IECC COMPLIANCE. SEE AS NOTED.
- P3.12 HOT AND COLD WATER DOWN FROM LEVEL ABOVE, SIZE AS NOTED.
- P3.13 3/4" HOT WATER RETURN UP TO LEVEL ABOVE.
- P3.14 3/4" HOT AND COLD WATER DROPS TO BELOW FLOOR FOR SERVICE TO ISLAND SINK. RUN INSIDE PVC SLEEVE. USE SOFT AWI REALED TYPE K COPPER FOR PIPES BELOW SLAB. INSTALL WITH NO HTTBGS BELOW SLAB.
- P3.18 1" HOT WATER AND 1/4" COLD WATER DOWN TO COMMERCIAL WASHER EXTRACTOR MACHINE. REFER TO MANUFACTURERS RECOMMENDATIONS FOR ROUGH-IN INFORMATION PRIOR TO INSTALLATION. GUSSE WATER LINES ARE OFFSET AS REQUIRED AND ACCESSIBLE FOR MAINTENANCE PURPOSES THROUGH DOOR DIRECTLY BEHIND EXTRACTOR.
- P4.1 FIRE SPRINKLER WATER ENTRY. SIZE AS NOTE. RE. DETAIL 1P8.02.
- P4.2 PROPOSED ROUTING FOR FIRE SPRINKLER LINE. REFER TO THE FIRE SPRINKLER CONTRACTOR DRAWING FOR PIPE SIZES AND SPRINKLER HEAD LOCATIONS. FIRE SPRINKLER CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND FIELD VERIFY EXACT LOCATION AND ROUTING FOR ALL PIPING PRIOR TO FABRICATION.
- P6.4 GRILL/ELECTRONIC BALL VALVE AND RANGE/OVEN/ELECTRONIC BALL VALVES (EBV) S-SERIES ENCLOSURE SHALL BE SURFACE MOUNTED IF BELOW CEILING IN PANTRY. THERE SHALL BE 2" EBVS IN S-SERIES ENCLOSURE.
- P6.5 GAS PIPE THRU EXTERIOR WALL. PROVIDE SLEEVES AND WATER TIGHT WALL PENETRATIONS.
- P6.6 CONNECT GAS PIPING TO EQUIPMENT. PROVIDE SHUT-OFF VALVES AND DRIP LEGS. SIZE AS NOTED.
- P6.7 GAS UP TO LEVEL ABOVE. SIZE AS NOTED.
- P6.9 1/2" (4 OZ) GAS PIPING TO STUB-OUT OF EXTERIOR OUTSIDE WALL. STUB OUT SEALED WATER TIGHT.
- P6.10 EXTERIOR ENCLOSURE FOR FLAV-2 SHALL BE SURFACE MOUNTED AT 8' BELOW CEILING IN PANTRY.
- P6.12 OGC (OUTDOOR GRILL CONTROLLER).
- P6.13 FLAV-2 (FIRE STATION COOKING CONTROLLER).
- P6.14 BGC (ELECTRIC GRILL CONTROLLER).
- P7.1 3/4" AIR PIPING TO HR-1. CONTRACTOR TO COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION. RE. DETAIL 9P6.02.
- P7.2 3/4" AIR DROP. CONTRACTOR TO COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION.
- P7.3 AIR COMPRESSOR/AIR DRYER. ALL INSTALLATION SHALL COMPLY WITH MANUFACTURERS DETAILS AND RECOMMENDATIONS. RE. DETAIL 9P6.02.



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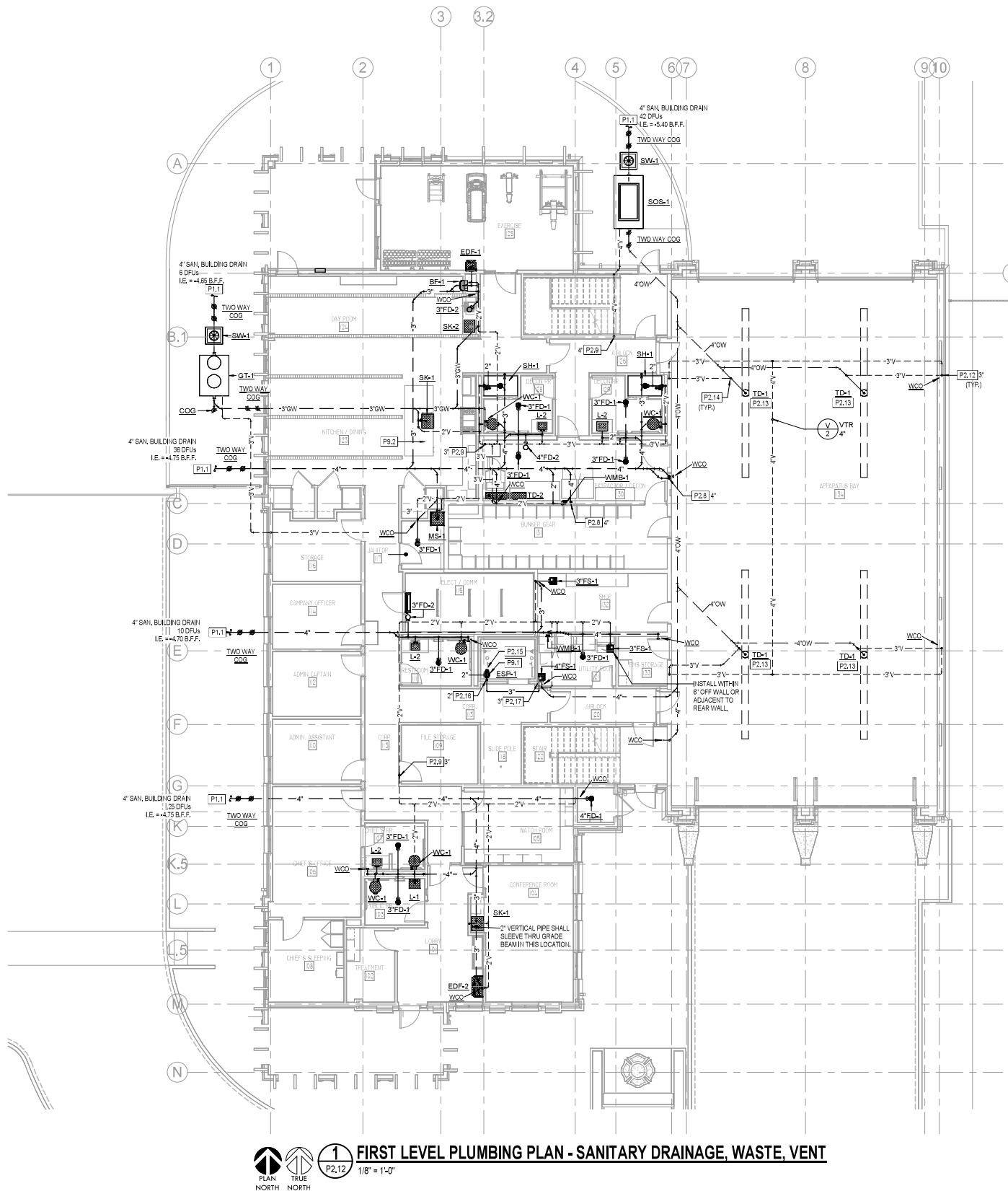


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P2.11

FIRST LEVEL PLUMBING
PLAN - DOMESTIC
WATER, AIR, AND
NATURAL GAS

ISSUE FOR BID



1 FIRST LEVEL PLUMBING PLAN - SANITARY DRAINAGE, WASTE, VENT
P2.12
1/8" = 1'-0"

- PLUMBING KEYED NOTES**
- P1.1 SANITARY BUILDING DRAIN, SIZE AS NOTED, REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATION BEYOND 5' OF THE BUILDING LINE.
 - P2.8 SANITARY DOWN FROM LEVEL ABOVE, SIZE AS NOTED.
 - P2.9 SANITARY VENT UP TO LEVEL ABOVE, SIZE AS NOTED.
 - P2.12 SANITARY VENT UP FROM BELOW SLAB AND ROUTED TIGHT TO CEILING SPACE, SIZE AS NOTED.
 - P2.13 TRENCH DRAIN, COMBINATION WASTE AND VENT SYSTEM, SEE DETAIL 316.02.
 - P2.14 SANITARY VENT OFF TOP OF DRAIN LINE BELOW FLOOR WITH SLOPING VENT TO RISER AS SHOWN.
 - P2.15 SUMP PUMP PIT, REFER TO STRUCTURAL DRAWINGS FOR PIT DIMENSIONS.
 - P2.16 ELEVATOR SUMP PUMP LINE UP TO ABOVE CEILING, SIZE AS NOTED.
 - P2.17 ELEVATOR SUMP PUMP LINE ROUTED ABOVE CEILING, LINE SHALL TERMINATE TO APPROVED INDIRECT WASTE RECEPTOR AS SHOWN, SIZED AS NOTED.
 - P2.1 ELEVATOR SUMP PUMP, ESP-1, REFER TO DETAIL 13P6.02.
 - P2.2 DISHWASHER, PROVIDE HOT WATER SUPPLY AND STOP, PROVIDE AIR GAP FITTING AND DRAIN TO ADJACENT SINK TAILPIECE.

GENERAL NOTE

CONTRACTOR SHALL REFER TO STRUCTURAL DRAWING DETAILS FOR MORE INFORMATION IN REGARDS TO GRADE BEAM PIPING PENETRATIONS.



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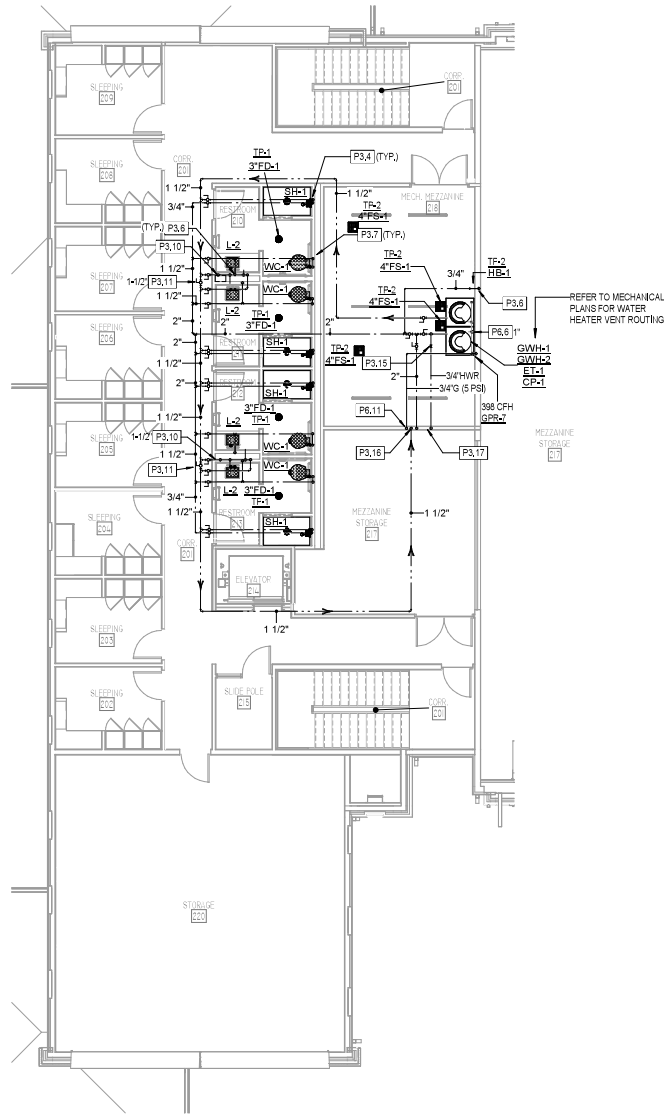
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P2.12

FIRST LEVEL PLUMBING
PLAN - SANITARY
DRAINAGE, WASTE,
VENT

ISSUE FOR BID



PLUMBING KEYED NOTES

- P3.4 DROP AND EXTEND 3/4" HOT AND COLD WATER TO SERVE FIXTURE(S).
- P3.6 DROP AND EXTEND 3/4" COLD WATER TO SERVE FIXTURE(S).
- P3.7 DROP AND EXTEND MINIMUM 1/2" COLD WATER TO SERVE FIXTURE(S).
- P3.10 HOT WATER DROP DOWN TO, RISE UP FROM, AND CIRCULATED HOT WATER LINE INSIDE WALL/CHASE AND WITHIN 2'-0" OF HOT WATER ROUGH-IN TO LAVATORY FOR 2015 IECC COMPLIANCE, SIZE AS NOTED.
- P3.11 PROVIDE NORMALLY CLOSED BYPASS VALVE ON HOT WATER LOOP.
- P3.15 HOT WATER RETURN BALANCING VALVE, RE:TP6.02.
- P3.16 HOT WATER DOWN TO LEVEL BELOW, SIZE AS NOTED.
- P3.17 HOT WATER RETURN AND COLD WATER UP FROM LEVEL BELOW, SIZE AS NOTED.
- P6.6 CONNECT GAS PIPING TO EQUIPMENT, PROVIDE SHUT-OFF VALVES AND DRIP LEGS, SIZE AS NOTED.
- P6.11 GAS UP FROM LEVEL BELOW, SIZE AS NOTED.

1 SECOND LEVEL PLUMBING PLAN - DOMESTIC WATER, AIR, AND NATURAL GAS
P2.21 1/8" = 1'-0"



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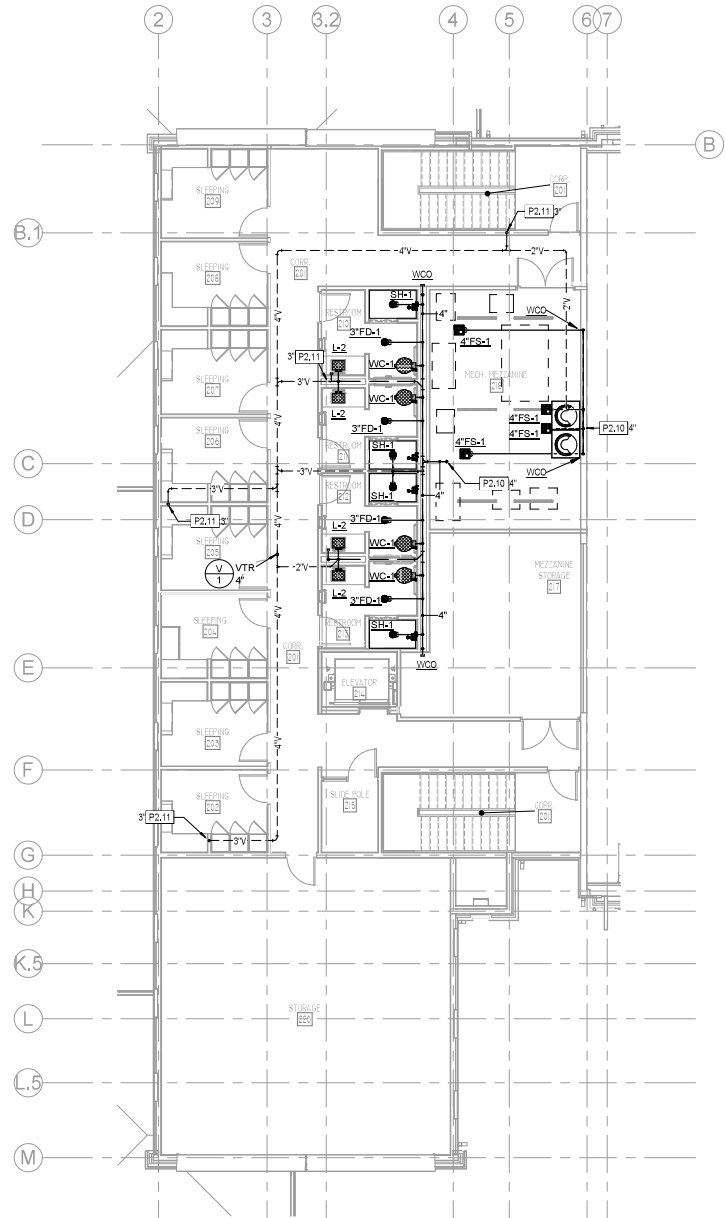
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P2.21
SECOND LEVEL
PLUMBING PLAN -
DOMESTIC WATER, AIR,
AND NATURAL GAS

ISSUE FOR BID



PLUMBING KEYED NOTES

- P2.10 SANITARY DOWN TO LEVEL BELOW, SIZE AS NOTED.
P2.11 SANITARY VENT UP FROM LEVEL BELOW, SIZE AS NOTED.

1 SECOND LEVEL PLUMBING PLAN - SANITARY DRAINAGE, WASTE, VENT
P2.22 1/8" = 1'-0"



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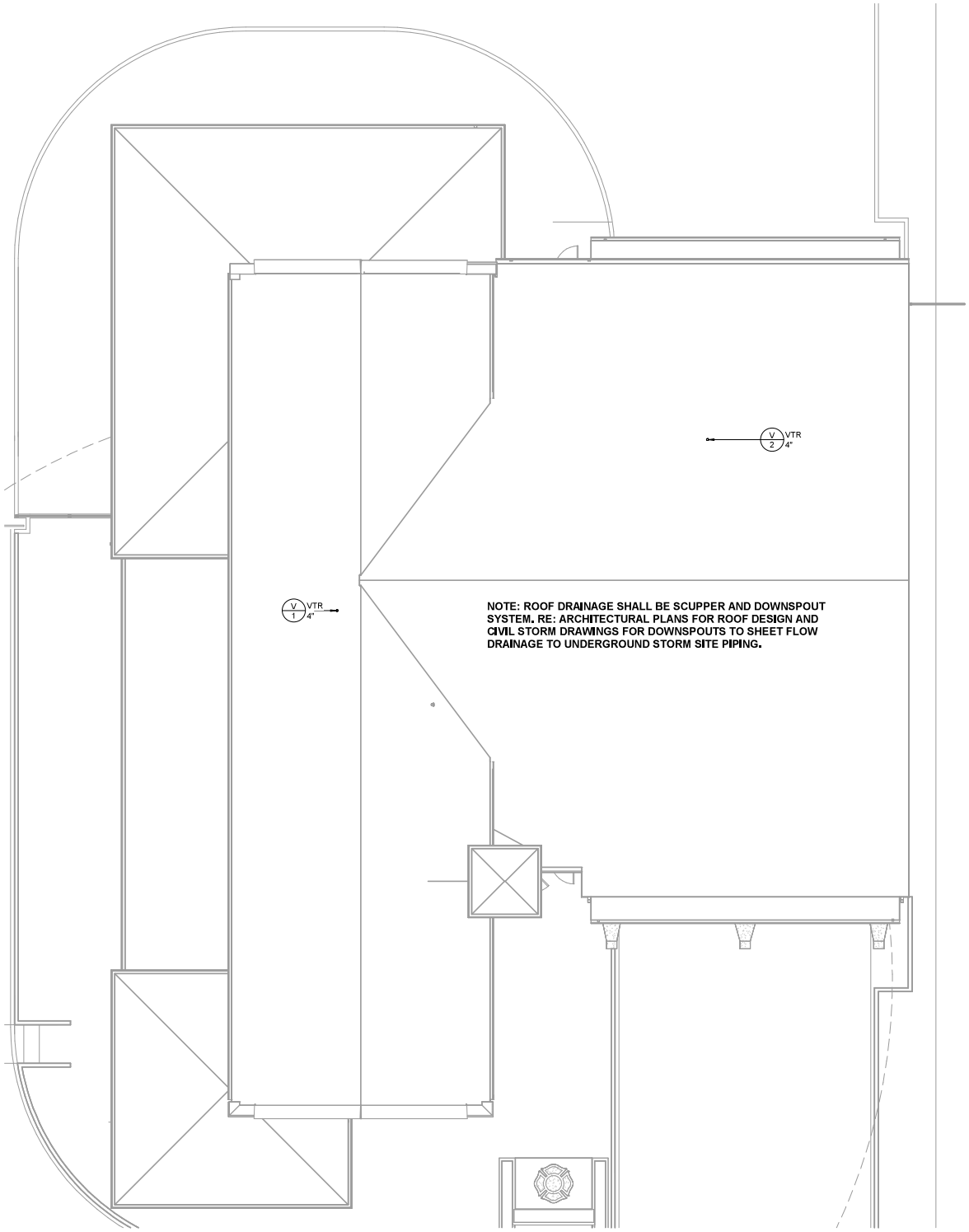
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P2.22
SECOND LEVEL
PLUMBING PLAN -
SANITARY DRAINAGE,
WASTE, VENT

ISSUE FOR BID



   **PLUMBING ROOF PLAN**
P2.31 1/8" = 1'-0"

GENERAL PLUMBING NOTES

1. UNLESS NOTED OTHERWISE, THE ROOF EDGE IS TO PROVIDE A MEANS OF RAINWATER OVERFLOW IN AREAS WHERE NO OVERFLOW DRAINS ARE INDICATED.
2. UNLESS NOTED OTHERWISE, ROOF AREAS WITH NO ROOF DRAINS SHOWN ARE TO SHEET FLOW TO AND DRAIN VIA THE BUILDING EDGE. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF CONSTRUCTION AND FOR ANY DETAILS REGARDING GUTTERS AND/OR DOWNSPOUTS.
3. IF VENT TERMINAL LOCATIONS ARE NOT SHOWN ON THIS DRAWING, REFER TO INDIVIDUAL FLOOR PLANS AND COORDINATE ACCORDINGLY.
4. ALL VENT TERMINALS SHALL BE LOCATED NO LESS THAN FIFTEEN (15) FEET AWAY FROM ANY OPERABLE WINDOW, DOOR, OUTSIDE AIR INTAKE, OR SUPPLY AIR FAIL.
5. ALL VERTICAL STORM CONDUCTORS WITHIN THE BUILDING SHALL BE LOCATED AND ROUTED CONCEALED FROM PUBLIC VIEW WITHIN CHASES/FURROUTS PROVIDED, REFER TO LATEST ARCHITECTURAL DRAWINGS, COORDINATE IN FIELD AND MAKE ADJUSTMENTS AS REQUIRED.



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**P2.31**

PLUMBING ROOF PLAN

PLUMBING GENERAL NOTES

- A. ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
- B. CONTRACTOR TO PROVIDE GAS PRESSURE REGULATORS, PLUG VALVES, UNION STRAINERS AND DRY LEGS PRIOR TO MECHANICAL EQUIPMENT TIE-INS. CONTRACTOR TO SET GAS PRESSURE REGULATORS PER MANUFACTURERS RECOMMENDATIONS.

GAS PRESSURE REGULATORS

PLAN MARK	GAS QUANTITY C.F.H.	PRESSURE INLET/OUTLET	LOCATION	MANUFACTURER/MODEL NUMBER
QPR-1	4098	5PSIG/7" I.D. W.C.	10' MIN FROM GENSET OR RITIERIAL	ITRON B31 SERIES LIGHT COMMERCIAL-INDUSTRIAL
QPR-2	100	5PSIG/7" W.C.	ADJACENT TO UNIT HEATER	ITRON B31 SERIES LIGHT COMMERCIAL-INDUSTRIAL
QPR-3	100	5PSIG/7" W.C.	ADJACENT TO UNIT HEATER	ITRON B31 SERIES LIGHT COMMERCIAL-INDUSTRIAL
QPR-4	100	5PSIG/7" W.C.	ADJACENT TO UNIT HEATER	ITRON B31 SERIES LIGHT COMMERCIAL-INDUSTRIAL
QPR-5	100	5PSIG/7" W.C.	ADJACENT TO UNIT HEATER	ITRON B31 SERIES LIGHT COMMERCIAL-INDUSTRIAL
QPR-6	400	5PSIG/7" W.C.	EXTERIOR WALL	ITRON B31 SERIES LIGHT COMMERCIAL-INDUSTRIAL
QPR-7	388	5PSIG/7" W.C.	ADJACENT TO WATER HEATER	ITRON B31 SERIES LIGHT COMMERCIAL-INDUSTRIAL
QPR-8	225	5PSIG/7" W.C.	ADJACENT TO EQUIPMENT	ITRON B31 SERIES LIGHT COMMERCIAL-INDUSTRIAL
QPR-9	225	5PSIG/7" W.C.	ADJACENT TO EQUIPMENT	ITRON B31 SERIES LIGHT COMMERCIAL-INDUSTRIAL

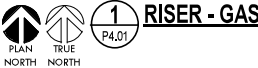
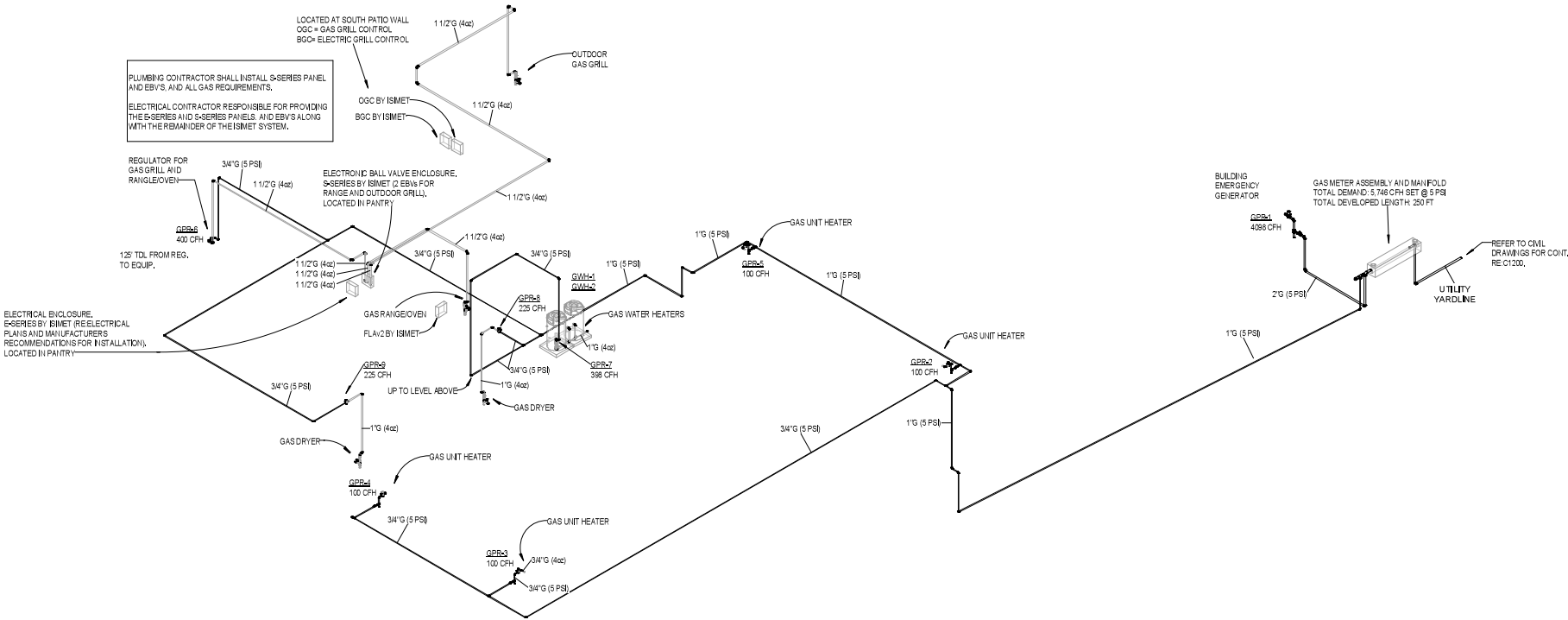
GENERAL NOTES:

- COORDINATE FINAL REGULATOR SELECTIONS WITH FINAL EQUIPMENT BEING PROVIDED. MAKE ADJUSTMENTS AS REQUIRED.
- PROVIDE MAXITROL 325 SERIES (OR EQUAL PER SPEC 22.11.21) GAS PRESSURE REGULATOR TO REGULATE PRESSURES FROM 5 PSI (OUTLET) TO 4 OZ (INLET) OR PER MANUFACTURE RECOMMENDATION.
- ALL GAS PRESSURE REGULATORS SHALL MEET THE REQUIREMENTS OF ANSI Z21.80 (NFPA 54-5.8.2).
- PROVIDE REGULATOR VENT LINE FOR EACH REGULATOR INDEPENDENTLY AND ROUTE EACH LINE FULL SIZE TO THE OUTDOORS.
- TERMINATE REGULATOR VENT LINES A MINIMUM OF 20'-0" FROM ANY FRESH AIR INTAKES.
- REGULATORS LOCATED INDOORS SHALL NOT BE INSTALLED CONCEALED OR ABOVE A CEILING. ALL INDOOR REGULATORS MUST BE LOCATED BELOW FINISHED CEILINGS OR IN EXPOSED AREAS.
- GAS REGULATORS SHALL BE EQUIPPED WITH SCREENED VENT OPENINGS ORIENTED TO PREVENT THE ENTRANCE OF WATER OR OTHER POLLUTING MATERIALS. WHEN LOCATED INSIDE THE BUILDING VENTS SHALL BE PIPED TO THE BUILDING EXTERIOR AND TERMINATED WITH A SCREENED OUTLET 90 DEGREE POINTED DOWNWARD. PROVIDE LINE SIZE PLUG OR BALL VALVE AND UNION ON INLET AND TEE WITH TEST COCK DOWNSTREAM OF ALL REGULATOR ASSEMBLIES.
- NATURAL GAS PIPING BELOW GRADE AND OUTSIDE THE BUILDING SHALL BE YELLOW POLYETHYLENE WITH SOCKET HEAT FUSION WELD FITTINGS.
- NATURAL GAS PIPING ABOVE GRADE SHALL BE SEAMLESS SCHEDULE 40 BLACK IRON.

GAS LOAD BREAKDOWN

EQUIPMENT TYPE	TAG	CFH	QTY	TOTAL CFH
GAS UNIT HEATER	GUH-1	100	1	100 CFH
GAS UNIT HEATER	GUH-2	100	1	100 CFH
GAS UNIT HEATER	GUH-3	100	1	100 CFH
GAS UNIT HEATER	GUH-4	100	1	100 CFH
GAS WATER HEATER	GWH-1	189	1	189 CFH
GAS WATER HEATER	GWH-2	189	1	189 CFH
GAS CLOTHES DRYER	DRYER	225	2	450 CFH
BUILDING EMERGENCY GENERATOR	GENSET	4098	1	4098 CFH
OUTDOOR GAS GRILL	GRILL	100	1	100 CFH
KITCHEN RANGE/OVEN	RANGE/OVEN	300	1	300 CFH

OVERALL
TOTAL CFH
DEMAND @ 5
PSIG
5,746



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P4.01

PLUMBING RISERS

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PLUMBING FIXTURE SCHEDULE						
PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
	WASTE & VENT	DRAIN	CW	HW		
WATER CLOSET WC-1 FLOOR MOUNT - ADA	4"	2"	4"	1-1/2"	—	KOHLER No. K46953-SSL WHITE V.C. ELONGATED FLOOR MOUNT (1.28GPF) BOWL WITH TOP SPUD.
FLUSH VALVE						SLOAN REGAL No.111-17.28 FLUSH VALVE LOW CONSUMPTION (MANUAL) VALVE, POLISHED CHROME FINISH.
ACCESSORIES						GEMLINE GL212SSCWH ELONGATED, HEAVY-DUTY, WHITE, OPEN FRONT TOILET SEAT, LESS COVER WITH SELF-SUSTAINING STAINLESS STEEL CHECK HINGE, PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER, FOR FULL DESCRIPTION REFER TO PROJECT SPECIFICATIONS, REFER TO ARCHITECTS PLANS FOR ADA MOUNTING HEIGHT,
LAVATORY L-1 WALL MOUNT - ADA	2"	2"	1-1/4"	3/4"	3/4"	KOHLER MODEL # K-2054 20" X 18" V.C. WALL HUNG LAVATORY WITH 4" CENTER FAUCET HOLES, PROVIDED WITH HANGER PLATE AND HOLES FOR CONCEALED ARM CARRIER,
FAUCET				1/2" TW (90°)		KOHLER MODEL # K-67094-4 (1.2 GPM) CENTERSET FAUCET,
ACCESSORIES						REFER TO PLUMBING SUPPLIES AND TRIM SCHEDULE, PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS, PROVIDE TMM-1 SET TEMPERATURE TO 90°.
LAVATORY L-2 DROP IN -ADA	2"	2"	1-1/4"	3/4"	3/4"	KOHLER MODEL # K-2892-4 UNDERMOUNT RECTANGLE WHITE V.C. LAVATORY WITH REAR OVERFLOW AND FAUCET DRILLED ON 4" CENTER FAUCET HOLES,
FAUCET				1/2" TW (90°)		KOHLER MODEL # K-67094-4 (1.2 GPM) CENTERSET FAUCET,
ACCESSORIES						REFER TO PLUMBING SUPPLIES AND TRIM SCHEDULE, PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS, PROVIDE TMM-1 SET TEMPERATURE TO 90°.
SINK SK-1	2"	2"	1-1/2"	3/4"	3/4"	ELKAY No. ELUH2011555 "LUSTERTONE" SINGLE COMPARTMENT SINK, 6" DEEP WITH OFF CENTER REAR DRAIN OPENING,
FAUCET						KOHLER MODEL # K-24662 (1.5 GPM) FAUCET W/ THREE FUNCTION FULL OUT SPRAY HEAD,
ACCESSORIES						ELKAY No. LKX-49 GRID DRAIN STRAINER, OFFSET TAILPIECE, CAST BRASS R-TRAP WITH CO. SUPPLY STOPS, ADA INSULATION KIT WHERE TRIM IS EXPOSED, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT, PROVIDE TMM-1 SET TEMPERATURE TO 90°.
SINK SK-2 ADA	2"	2"	1-1/2"	3/4"	3/4"	ELKAY No. ELUH201810 "LUSTERTONE" SINGLE COMPARTMENT SINK, 10" DEEP WITH OFF CENTER REAR DRAIN OPENING,
FAUCET						KOHLER MODEL # K-24662 (1.5 GPM) FAUCET W/ THREE FUNCTION FULL OUT SPRAY HEAD,
ACCESSORIES						ELKAY No. LKX-49 GRID DRAIN STRAINER, OFFSET TAILPIECE, CAST BRASS R-TRAP WITH CO. SUPPLY STOPS, PROVIDE INSULATION KIT WHERE TRIM IS EXPOSED, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT, PROVIDE TMM-1 SET TEMPERATURE TO 90°.
POT FILLER PF-1	2"	2"	1-1/2"	1/2"	1/2"	MOEN S665 PT-FILLER FAUCET, SINGLE HOLE WALL MOUNT INSTALLATION W/ 1/2" DIAMETER FAUCET HOLE REQUIRED, SINGLE LEVER POT FILLER, METAL CONSTRUCTION, 5.5 GPM,
ELECTRIC BOTTLE FILLER STATION BF-1	2"	2"	1-1/4"	1/2"	---	ELKAY No. LZW50R18K IN-WALL BOTTLE FILLING STATION, HIGH EFFICIENCY, FILTERED, REFRIGERATED, STAINLESS STEEL.
ELECTRICAL REQUIREMENTS						1/5 HP, 4.0 FL. AMPS, WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.
ACCESSORIES						REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE, PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS,
ELECTRIC DRINKING FOUNTAIN EDF-1 ADA	2"	2"	1-1/4"	1/2"	---	ELKAY No. LYR60DMWSK SINGLE WALL MOUNTED COOLER, FILTERED, WATER BOTTLE FILLING STATION, NON REFRIGERATED, PROVIDE ZURN OR EQUAL FLOOR MOUNTED PLATE TYPE CARRIER AND TRAP AND SUPPLY AS NOTED BELOW, PROVIDE WITH ALL STAINLESS STEEL CABINET, PROVIDE 3 REPLACEMENT FILTERS (ELKAY MODEL NO. VRCMWS).
ELECTRICAL REQUIREMENTS						1/5 HP, 4.0 FL. AMPS, WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.
ACCESSORIES						REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE, PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS,
ELECTRIC DRINKING FOUNTAIN EDF-2 ADA	2"	2"	1-1/4"	1/2"	---	ELKAY No. LYR60DMWSK WALL MOUNTED B-LEVEL COOLER, FILTERED, WATER BOTTLE FILLING STATION, NON REFRIGERATED, PROVIDE ZURN OR EQUAL FLOOR MOUNTED PLATE TYPE CARRIER AND TRAP AND SUPPLY AS NOTED BELOW, PROVIDE WITH ALL STAINLESS STEEL CABINET, PROVIDE 3 REPLACEMENT FILTERS (ELKAY MODEL NO. VRCMWS).
ELECTRICAL REQUIREMENTS						1/5 HP, 4.0 FL. AMPS, WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.
ACCESSORIES						REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE, PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS,
SHOWER SH-1 ADA	2"	2"	2"	1/2"	1/2"	KOHLER MODEL No. K-20972-4S THERMOSTATIC MIXING VALVE, K-71488-4 THERMOSTATIC VALVE TRIM, K-20744 VOLUME CONTROL VALVE, K-71489-4 VOLUME CONTROL VALVE TRIM, K-7207 SHOWER ARM AND FLANGE, AND K-72417 SINGLE FUNCTION SHOWER HEAD @ 1.75 GPM FLOW PROVIDE CHECK STOPS,
ACCESSORIES						2" FDI FOR DRAINAGE AND MINIMUM 4 P.S.F. LEAD, OR 40 MIL VINYL SHOWER PAN, RE ARCHITECTURAL PLANS,
MOP SINK MS-1	3"	2"	---	3/4"	3/4"	FIAT MODEL No. TS9100 FLOOR MOUNTED 24 X 24 X 12 TERRAZZO MOLDED BASIN,
FAUCET						MOEN MODEL No. 6230 SERVICE SINK FAUCET WITH VACUUM BREAKER HOSE END SPOUT, 1.75 GPM FLOW PROVIDE CHECK STOPS,
ACCESSORIES						MOP BRACKET AND HOSE WITH S.S. CAPS AND SPLASH CATCHER PANELS.
* REFER TO DRAWINGS FOR SIZING, GENERAL NOTES: 1. FOR ALL SUPPLY STOPS AND TRIM REFER TO THE PLUMBING FIXTURE SUPPLIES AND TRIM SCHEDULE. 2. FOR MOUNTING HEIGHTS OF INDIVIDUAL FIXTURES, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. 3. CONTRACTOR TO COORDINATE LOCATION OF DRAINS AND FLOOR SINKS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.						

GAS WATER HEATER SCHEDULE									
PLAN MARK	MANUFACTURER	MODEL #	TYPE	FUEL	GALLONS	HEATING LOAD (BTU/H)	CW INLET	HW OUTLET	GPH RECOVERY @ 80° TEMP RISE
GAS WATER HEATER GWH-1	A.O. SMITH	BTM-199	STORAGE TANK	NATURAL GAS	100	199,000	1-1/2"	1-1/2"	288
GAS WATER HEATER GWH-2	A.O. SMITH	BTM-199	STORAGE TANK	NATURAL GAS	100	199,000	1-1/2"	1-1/2"	288
WATER HEATER EFFICIENCY EXHAUST VENT (in Ø) VOLTS (V) PHASE KW AMPS									
ELECTRICAL REQUIREMENTS VOLTS (V) PHASE W HP									
CIRCULATION PUMP CP-1	GRUNDFOS	MAGNA3	ALL STAINLESS STEEL FLANGED PUMP, 1/25 HP WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS AND FITTED WITH REMOTE HEAT SENSING AQUASTAT CONTROLLER, CONTROLLED BY ELECTRICAL CONTRACTOR, DESIGNED AT 15 FT HEAD LOSS.						
THERMAL EXPANSION TANK ET-1	AMTROL	THERM-X-TROL MODEL ST-12 C	ASME THERMAL EXPANSION ABSORBERS, SAFETY RELIEF VALVE, MAXIMUM WORKING PRESSURE 150 PSIG, TOTAL VOLUME 4.4 GALLONS.						

PLUMBING FIXTURE SCHEDULE					
MINIMUM ROUGH-IN SIZES		DESCRIPTION			
CW	HW				
1/2"	1/2"	LEONARD MODEL 2704-F ADJUSTABLE POINT-OF-USE LEAD FREE THERMOSTATIC MIXING VALVE, ASSE 1070 WITH INLET CHECK STOPS TO LIMIT HOT WATER TEMPERATURE, SET TEMPERATURE AT 110°, PROVIDE WITH MOUNTING BRACKET.			
---	---	ZURN No. ZW-415 CAST IRON DRAIN WITH 6" DIAMETER TYPE "B" STRAINER AND 1/2" IPS TRAP PRIMER CONNECTION FOR FLOOR DRAIN BODY POURED IN CONCRETE SLAB PROVIDE ZURN Z1023 TRAP PRIMER EXTENSION.			
---	---	ZURN No. ZW-415 CAST IRON DRAIN WITH 7" DIAMETER TYPE "E" STRAINER, TRAP PRIMER CONNECTION AND 4" DIAMETER FUNNEL GRATE, FOR FLOOR DRAIN BODY POURED IN CONCRETE SLAB PROVIDE ZURN Z1023 TRAP PRIMER EXTENSION.			
---	---	ZURN No. ZW-1902-25K, 12" SQUARE, 8" DEEP CAST IRON DRAIN WITH ENAMELED INTERIOR, SEGMENT BUCKET STRAINER AND BUCKET HALF MOULDED BRONZE GRATE, FOR FLOOR DRAIN BODY POURED IN CONCRETE SLAB.			
---	---	2512AF POLYMER CONCRETE PRECAST TRENCH DRAIN CHANNELS, CHANNELS SHALL HAVE 4" INSIDE WIDTH WITH 0.6% PRE-SLOPED RADIUS BOTTOM, ANCHORING RISBS, AND POLYMER ANCHOR FRAME, GRATES SHALL BE 6" WIDER POLYMER COATED IRON WITH INTEGRAL TOGGLE LOCKING SYSTEM, SYSTEM SHALL BE DOMESTICALLY MANUFACTURED AND ASHOTO HSAS CLASS E LOAD RATED, CHANNELS, FRAME, AND GRATE SYSTEM MANUFACTURED BY ABT, INC., MODEL POLYDRAIN 2512AF, REFER TO DETAIL 3/P6.02.			
---	---	REFER TO DETAIL 3/P6.02.			
1/2"	---	PRECISION PLUMBING PRODUCTS, INC., FLUSH VALVE PRIMER No. FVX-4VB WITH VACUUM BREAKER, TRAP REFILL SUPPLY, CONTRACTOR TO INSTALL PRIMER ON NEAREST WATER CLOSET TO FLOOR DRAIN SUPPLIED, ALL EXPOSED PIPING SHALL BE CHROME PLATED AND CONCEALED SUPPLY TUBING SHALL BE 1/2" TYPE "K" SOFT COPPER.			
1/2"	---	PRECISION PLUMBING PRODUCTS, INC., No. P0-600 AUTOMATIC PRESSURE DROP TRAP PRIMER VALVE, INSTALL CONCEALED IN ACCESSIBLE LOCATION, BEHIND APPROVED ACCESS PANEL, OR EXPOSED IN MECHANICAL EQUIPMENT AREAS WITH TRAP PRIMER DISTRIBUTION UNIT, INSTALL AT MINIMUM 15" A.F.F.			
---	---	CHICAGO FAUCETS No. 984-RFC SILL FAUCET WITH NON-REMOVABLE VACUUM BREAKER AND LOOSE KEY OPERATING HANDLE, MOUNTING HEIGHT FOR 36" A.F.F. IN MECHANICAL ROOMS.			
3/4"	---	ZURN No. Z1-300 RECESSED NON-FREEZE BRONZE, ALL BOX, ANTI-SIPHON HYDRANT, WITH LOOSE KEY OPERATOR AND POLISHED NICKEL BRONZE LOCKING COVER, INSTALL WITH FACE FLUSH AND SQUARE TO FINISHED WALL, SECURE WITH WALL CLAMP AND SETSCREW, PROVIDE EXTENSION AS REQUIRED TO PLACE VALVE SEAT IN HEATED ROOM SPACE.			
3/4"	---	GUY GRAY No. MB1HAAB 1/2"x1/2" O.D. TUBE ICE MAKER WITH HAMMER ARRESTOR VALVE, LEAVE 60" COIL OF 1/4" O.D. TYPE "K" SOFT COPPER FOR EQUIPMENT CONNECTION. FOR FREE STANDING REFRIGERATOR WITH ICE MAKER, INSTALL BOX AT 54" A.F.F. FOR UNDER COUNTER REFRIGERATOR ICE MAKER, INSTALL BOX AT 18" A.F.F. FOR COFFEE MACHINE, INSTALL BOX AT 24" A.F.F. BELOW COUNTER OR ABOVE COUNTER BACKSPLASH, COORDINATE WITH ARCHITECT FOR EXACT LOCATION. FOR ICE/COFFEE MAKER PROVIDE WITH CUNO No. AP717 FILTER BRACKETED TO WALL AND WATTS SD-2 IN-LINE BACKFLOW PREVENTER.			
1/2"	1/2"	GUY GRAY MODEL MMB26 WITH TRIM RING AND HAMMER ARRESTORS WITH 1/2" QTR. TURN VALVE ASSEMBLY.			
---	---	PROVIDE WATTS MODEL 8572-FS DOMESTIC WATER 2 PATTERN ORIENTATION BACKFLOW DEVICE COMPLETE WITH FLOOD SENSOR AND 113APF AUTOMATIC CONTROL VALVE, COMPONENT WITH CONTROL PANEL, BACKFLOW DISCHARGE LINE SHALL TERMINATE TO OUTDOORS AND FLOOR SINK SHALL BE INSTALLED DIRECTLY BELOW AIR GAP FITTING.			
---	---	PROVIDE AMES/WATTS MODEL DERINGER 30 DOUBLE CHECK DETECTOR ASSEMBLY, IN VERTICAL POSITION, PROVIDE AIR GAP AND FULL SIZE INDIRECT DRAIN PIPED TO FLOOR DRAIN, INSTALL MOUNTED ON WALL WITH CLEARANCE FOR SERVICE, PROVIDE SHUT-OFF VALVE AND FULL SIZE STRAINER ON INLET RISER AND SHUT-OFF VALVE ON OUTLET RISER, PROVIDE 2" WATER LINE CONNECTION COMPLETE WITH SHUT OFF VALVE PRIOR TO REDUCER AND ROUTE DIRECTLY TO FIRE TRUCK FILL VALVE IN APPARATUS BAY.			
---	---	WATTS No.209-54-F REDUCED PRESS. PRINCIPLE DOUBLE CHECK VALVE WITH INTERMEDIATE ATMOSPHERIC VENT, PROVIDE AIR GAP AND FULL SIZE INDIRECT DRAIN PIPED TO FLOOR DRAIN, INSTALL ON PIPE STAND AT 42" AFF WITH CLEARANCE FOR SERVICE AND PIPING BRACKETED TO WALL, PROVIDE SHUT OFF VALVE & FULL SIZE STRAINER ON INLET AND SHUT OFF VALVE ON OUTLET RISER, TEST AND CERTIFY PER AWWA C-611			
---	---	ZURN No. ZW-1440 DURO-COATED CAST IRON CLEANOUT TEE WITH COUNTER-SINK O-RISK WATER TIGHT THREADED PLUG AND ZURN 1460 SQUARE SMOOTH ACCESS COVER WITH VALIDAL PROOF SCREWS.			
---	---	ZURN No. ZW-4402 DURO-COATED CAST IRON CLEANOUT WITH WATER TIGHT COUNTER-SINK PLUG AND SCORRIATED SECURED TOP WITH FRAME, INSTALL IN 18"x18"x6" THICK CONCRETE PAD.			
* REFER TO DRAWINGS FOR SIZING. GENERAL NOTES: 1. FOR ALL SUPPLY STOPS AND TRIM REFER TO THE PLUMBING FIXTURE SUPPLIES AND TRIM SCHEDULE. 2. FOR MOUNTING HEIGHTS OF INDIVIDUAL FIXTURES, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. 3. CONTRACTOR TO COORDINATE LOCATION OF DRAINS AND FLOOR SINKS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.					

COMPRESSED AIR SCHEDULE									
PLAN MARK	DESCRIPTION								
AIR COMPRESSOR AC-1	INGERSOLL RAND No. 2479N1-5-P 80 GALLON VERTICAL RECEIVER, TWO STAGE AIR COMPRESSOR, 7.5 HP, 208V, 3Ø AND 24.3 CFM AT 175 PSI MAXIMUM PRESSURE, PROVIDE WITH INGERSOLL RAND MOTOR STARTER KIT, COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR, COMPLETE WITH CONDENSATE NEUTRALIZATION KIT.								
AIR DRYER AD-1	INGERSOLL RAND NAD73N AIR DRYER (0.37 KW) CAPABLE OF 42 CFM AT 100 PSIG, COORDINATE 120V/1Ø POWER WITH ELECTRICAL CONTRACTOR.								
HOSE REEL HR-1	GRACO MODEL SDX SERIES HOSE REEL ASSEMBLY WITH SPRING RETRACTABLE 50 FOOT 1/2" AIR HOSE, RATED FOR 300 PSI MAXIMUM PRESSURE, ARM POSITIONED TO ACCOMMODATE OVER-HEAD MOUNTING FROM VERTICAL SUPPORT, AS DETAILED, PROVIDE PER MANUFACTURER'S RECOMMENDATIONS, COMPLETE WITH RECOMMENDED HOSE INLET KIT AND INLET REDUCER AS REQUIRED, PROVIDE FINAL QUICK CONNECT PER OWNER'S DIRECTIVE, GRACO SDX-HF								

PLUMBING FIXTURE SUPPLIES AND TRIM					
FIXTURE	MANUFACTURER	STRAINER	P-TRAP	SIZE	ANGLE STOP AND SUPPLY RISER
LAVATORY	McGUIRE	HD155A	8972	1-1/4"	LFVB2165-4K, 1/2" I.P.S. X 3/8" O.D.
DRINKING FOUNTAIN	McGUIRE	HD155A	8972	1-1/4"	LFVB2165-4K, 1/2" I.P.S. X 3/8" O.D.
SINK	McGUIRE	152N	8912	1-1/2"	LFVB2165-4K, 1/2" I.P.S. X 3/8" O.D.
2 COMPARTMENT SINK, NO DISPENSER	McGUIRE	(2) 152N WITH CONTINUOUS WASTE 111C1617	8912	1-1/2"	LFVB2165-4K, 1/2" I.P.S. X 3/8" O.D.
NOTE:					
1. STRAINERS SHALL BE HEAVY CAST BRASS CHROME PLATED WITH MATCHING GRID TYPE STRAINER, WITH OR WITHOUT OVERFLOW AS REQUIRED, 17 GAUGE SEAMLESS BRASS TAILPIECE OF LENGTH DETERMINED BY INSTALLATION REQUIREMENTS, PROVIDE COMPLETE WITH WASHERS AND BRASS LOCKNUT.					
2. P-TRAPS SHALL BE 17 GAUGE SEAMLESS CHROME-PLATED BRASS, ADJUSTABLE TYPE, PROVIDE COMPLETE WITH CLEANOUT PLUG, CHROME-PLATED BRASS SLIP NUTS, WALL BEND, AND WROUGHT BRASS ESCUTCHEON OF DEPTH DETERMINED BY INSTALLATION REQUIREMENTS.					
3. ANGLE STOPS SHALL BE LEAD-FREE COMMERCIAL PATTERN CHROME-PLATED BRASS, QUARTER-TURN BALL TYPE WITH LOOSE KEY HANDLES, PROVIDE COMPLETE WITH CHROME-PLATED COPPER SUPPLY RISERS AND WROUGHT BRASS ESCUTCHEON OF DEPTH DETERMINED BY INSTALLATION REQUIREMENTS.					
4. PIPE TRIM INSULATION SHALL BE COMPLIANT, WHITE MOLDED VINYL, FAD-RESISTANT, BACTERIA/FUNGAL-RESISTANT INSULATION.					
5. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER.					

GENERAL PLUMBING NOTES

- THE BUILDING SHALL BE FULLY FIRE SPRINKLERED, THE SCOPE OF WORK INCLUDES THE INSTALLATION OF SPRINKLER HEADS, PIPE, FITTINGS, HANGERS, AND ACCESSORIES, THE WORK SHALL ALSO INCLUDE VALVE SUPERVISORY SWITCHES, FLOW SWITCHES AND COORDINATION WITH THE BUILDING FIRE ALARM SYSTEM.
- THE FIRE SPRINKLER SYSTEM SHALL PROVIDE COMPLETE AUTOMATIC PROTECTION AND COVERAGE AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION AND IFPA 13 (PREVAILING EDITION), THE SPRINKLER SYSTEM SHALL ALSO BE APPROVED BY THE OWNERS FIRE INSURANCE UNDERWRITER.
- THE FIRE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY A STATE LICENSED FIRE PROTECTION CONTRACTOR.
- THE FIRE SPRINKLER CONTRACTOR SHALL COORDINATE SPRINKLER HEAD LOCATIONS WITH CEILING TILES AND ARCHITECTURAL FINISHES, ALL SPRINKLER HEADS SHALL BE INSTALLED IN CENTER OF CEILING TILES REGARDLESS OF ANY NECESSITY TO PROVIDE ADDITIONAL HEADS TO ACCOMPLISH UNIFORM APPEARANCE OF THE COMPLETED INSTALLATION, IF THIS REQUIREMENT, THE CONTRACTOR SHALL MAKE ADJUSTMENTS AS NECESSARY DURING THE SHOP DRAWING PROCESS TO MEET ARCHITECTURAL REVIEW REQUIREMENTS WHILE STILL ENSURING COMPLETE AND COMPLIANT COVERAGE.
- COMPLETE SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR APPROVAL BY THE OWNERS FIRE INSURANCE UNDERWRITER AND FIRE MARSHAL, THEY SHALL ALSO BE SUBMITTED FOR REVIEW BY THE ARCHITECT AND ENGINEER OF RECORD.
- SPRINKLER SYSTEM SHALL CONTAIN NO SUCH ADDITIONAL VALVES DOWNSTREAM OF THE CONTROL STATION.
- THE SPRINKLER SYSTEM SHALL BE DESIGNED AS REQUIRED TO ACCOMMODATE FIXTURES, PARTITIONS, SOFFITS, FURR DOWNS, CEILING HEIGHTS, OBSTRUCTIONS, ETC.
- REFER TO THE OWNER'S CRITERIA/CONSTRUCTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
- REFER TO THE ARCHITECTURAL CODE ANALYSIS FOR ANY SPECIAL REQUIREMENTS.
- THE SPRINKLER SYSTEM SHALL BE FULLY CHARGED AND OPERATIONAL WHEN THE CONTRACTOR IS OFF THE SITE.
- UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL MAKE AND PAY FOR ALL TESTS AS MAY BE REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND SHALL CORRECT ANY DEFECTS INDICATED BY TESTS TO THE SATISFACTION OF THE AUTHORITIES.

GENERAL PLUMBING NOTES (UNDERGROUND)

- COORDINATE ROUTING OF PIPING BELOW SLAB ON GRADE WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND ANY OTHER SUB-SURFACE BUILDING ELEMENTS, MAKE ADJUSTMENTS AS REQUIRED.
- DO NOT ROUGH-IN FOR FIXTURES FROM THESE DRAWINGS, REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
- COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND MANUFACTURER RECOMMENDATIONS PRIOR TO ANY ROUGH-INS.
- COORDINATE IN FIELD TO ENSURE NO LESS THAN 6 INCHES OF EARTHEN COVER FROM TOPS OF PIPES TO BOTTOMS OF GRADE BEAMS, FOUNDATION WALLS, OR SIMILAR ELEMENTS, IN LOCATIONS WHERE SUCH MINIMUM COVER CANNOT BE PROVIDED DUE TO LIMITATIONS OF AVAILABLE PIPE INVERTS, PROVIDE CAST IRON SLEEVES THROUGH THE FOUNDATION ELEMENTS, SLEEVES SHALL BE NO SMALLER THAN TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE GRADE BEAM/FOUNDATION WALL, COORDINATE WITH, AND ADHERE TO, ALL RELATED REQUIREMENTS INDICATED BY THE STRUCTURAL ENGINEER.
- THE DISCHARGE LINE FROM ANY EJECTOR OR PUMP WHICH CONNECTS TO A HORIZONTAL GRAVITY DRAINAGE LINE SHALL BE FROM THE TOP, THROUGH A WYE BRANCH FITTING.
- ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE PREVAILING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.

GENERAL NOTES - PLUMBING FIXTURES

- CONTRACTOR TO FIELD VERIFY ELEVATIONS AND DIMENSIONS OF FINISHED FLOORS AND WALLS, TRUE ALL DRAINS, ROUGH-INS AND CARRIERS IN ACCORDANCE WITH PROPOSED ELEVATIONS AND FINISHED SURFACES.
- MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG OR COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION OF ROUGH-IN WORK.
- FOR ALL FIXTURES AND EQUIPMENT WITH ASSOCIATED TRIM OR COMPONENT ACCESSORIES PROVIDED UNDER SEPAR



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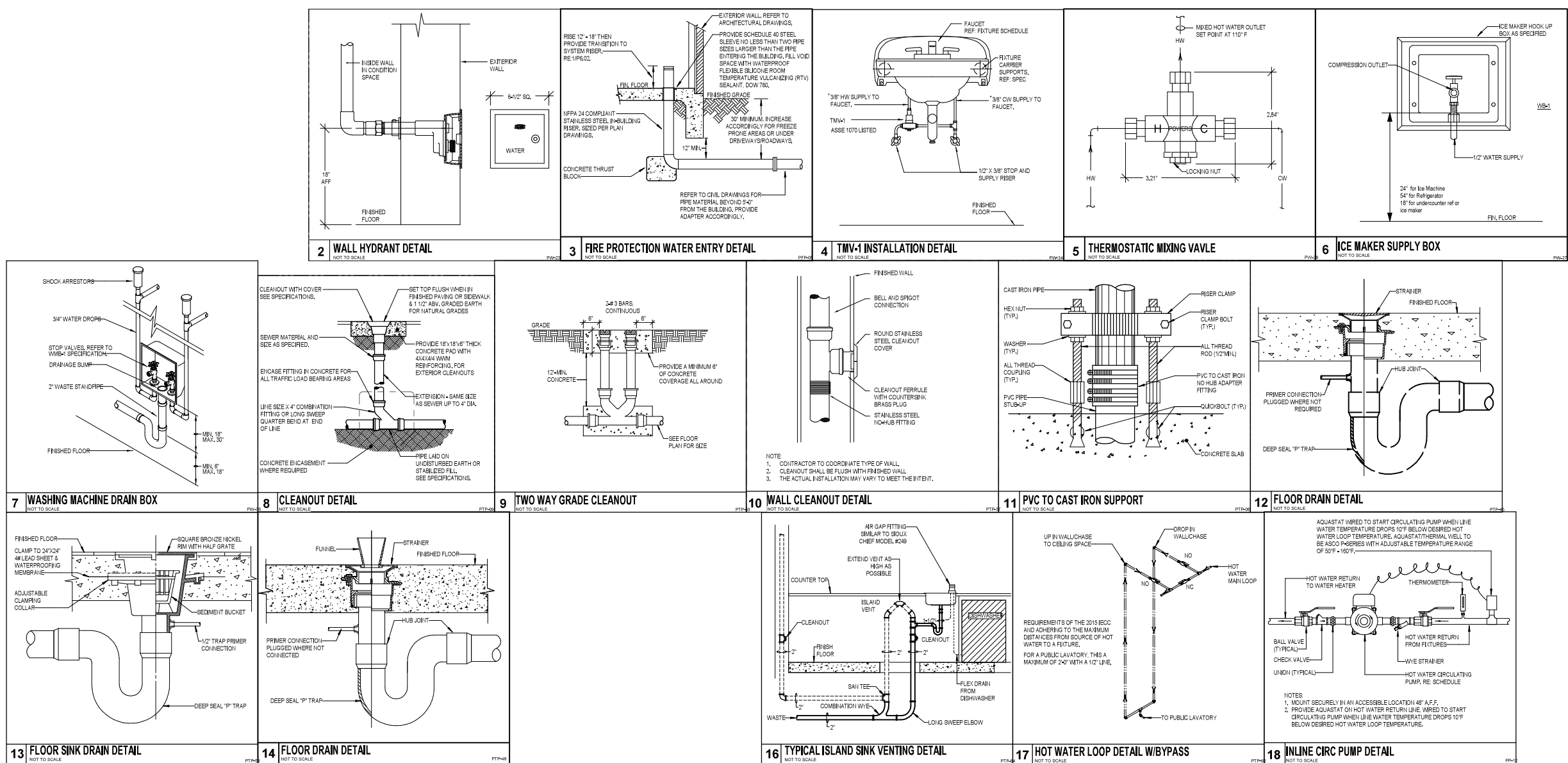
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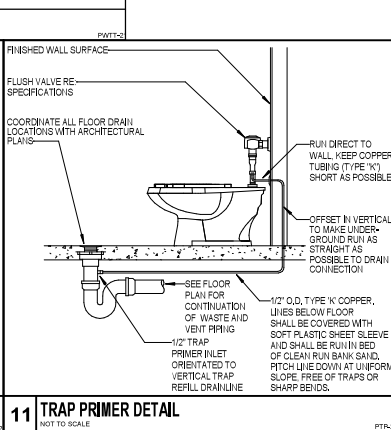
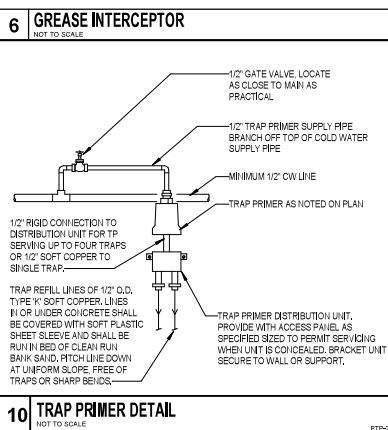
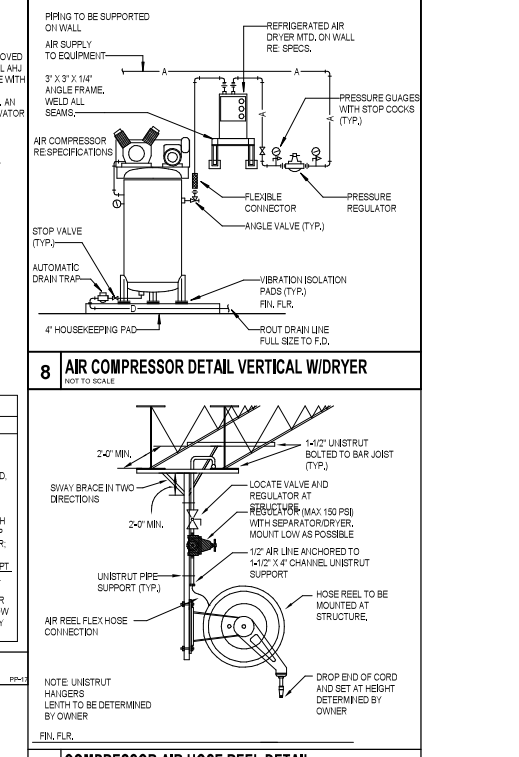
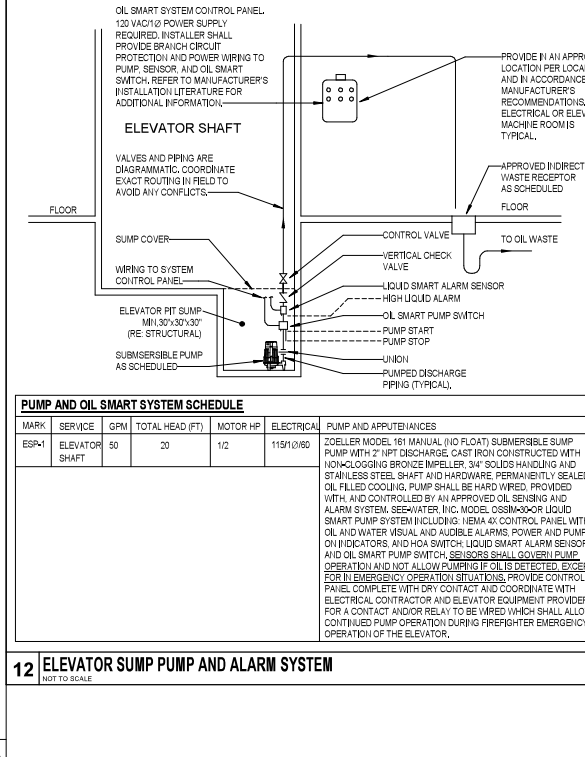
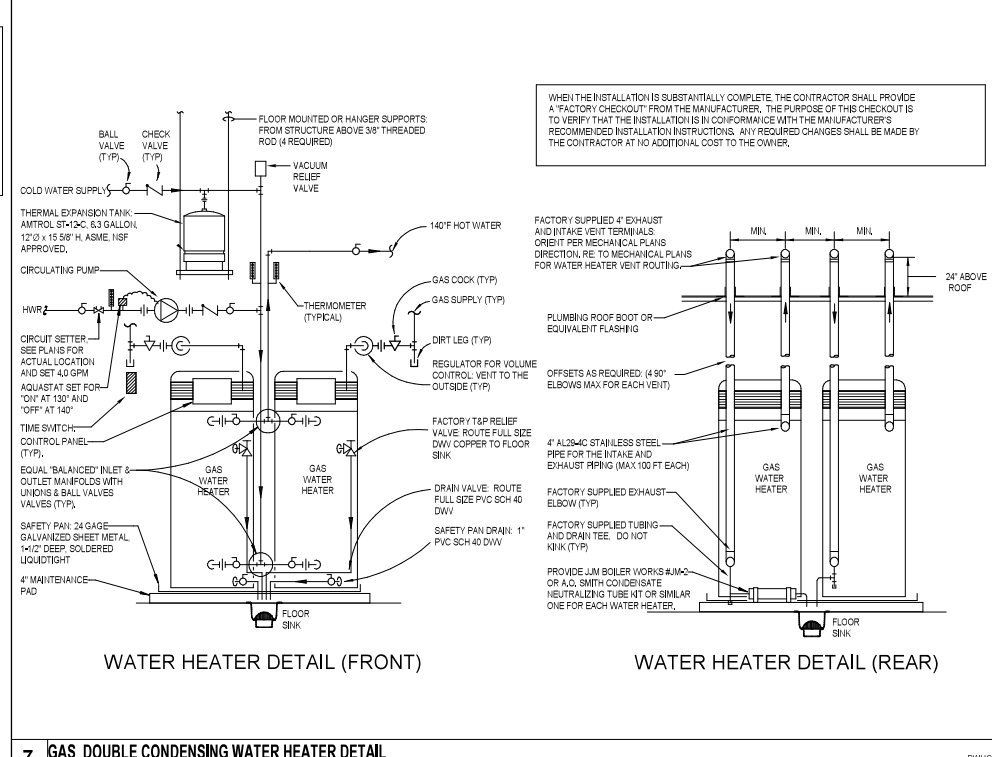
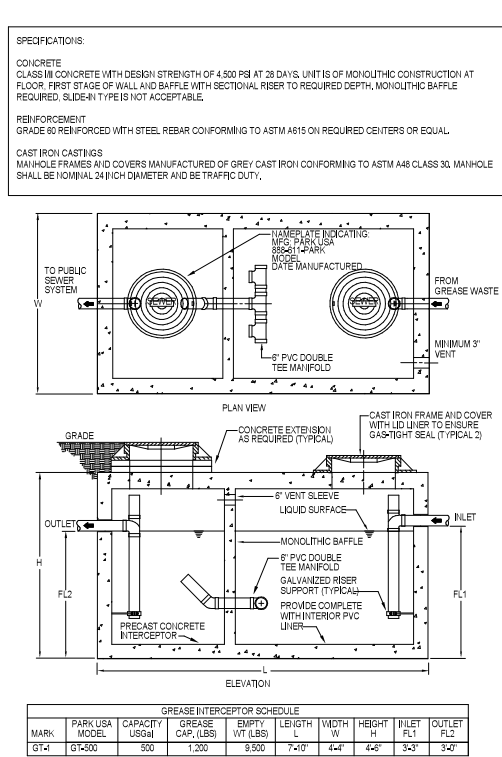
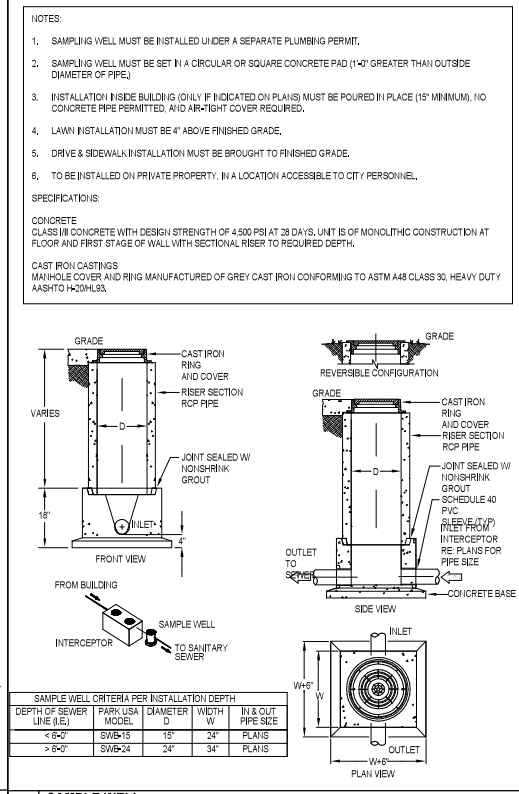
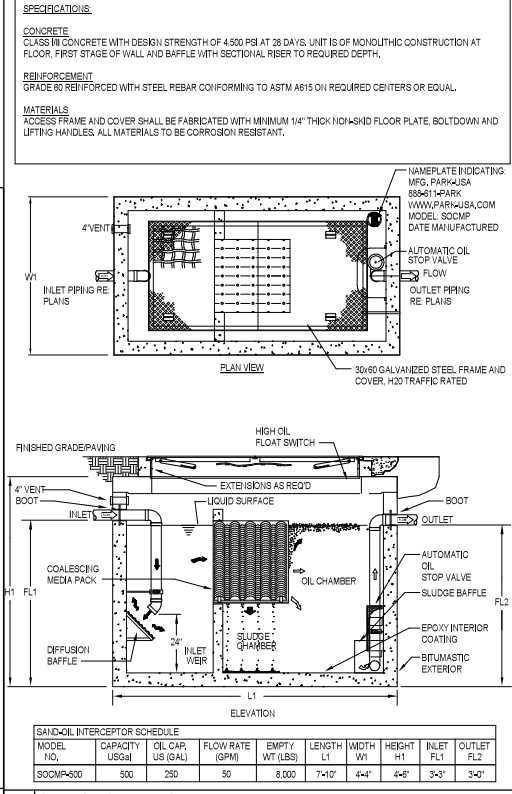
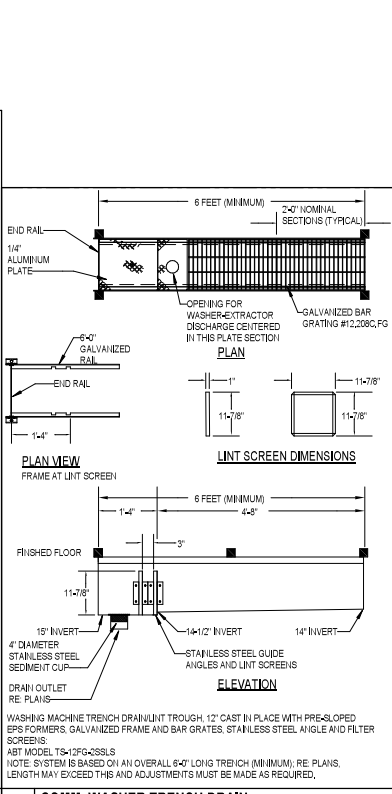
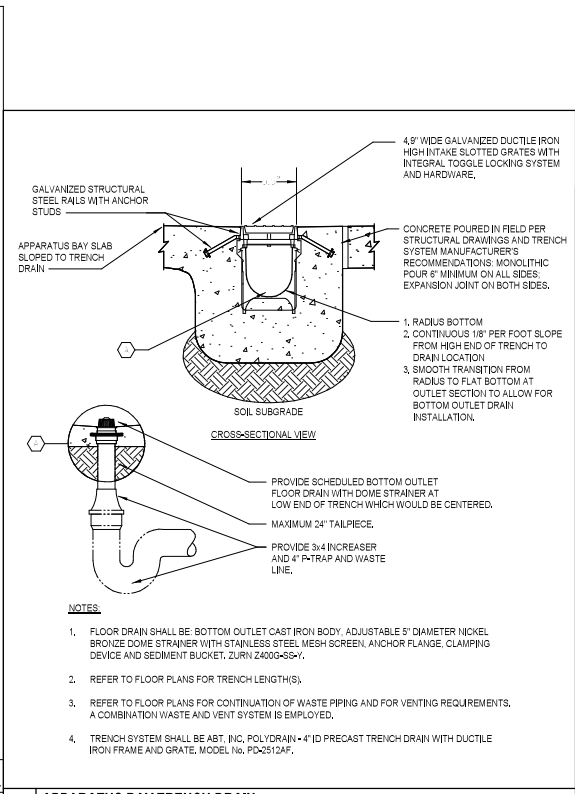
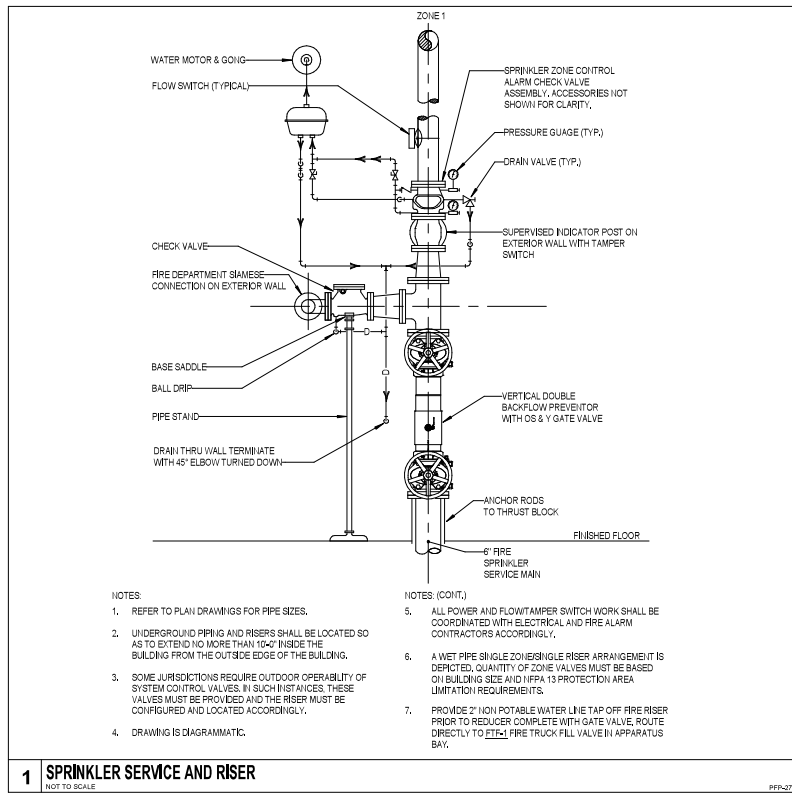
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DATE: APRIL 24, 2025
DRAWN BY: DBR
CHECKED BY: DBR
BRW PROJECT NUMBER: 223136.00

KINGSVILLE FIRE STATION NO. 3
2602 S 5TH ST.
KINGSVILLE, TX 78363

NO.	REVISION	DATE





SAND OIL SEPARATOR CALCULATIONS	
04 TRENCH DRAINS x 8 DPU x 0.25 USAGE FACTOR x 3 GPM/DPU	= 24.0 GPM
00 FLOOR DRAINS x 6 DPU x 0.25 USAGE FACTOR x 3 GPM/DPU	= 0.0 GPM
TOTAL FLOWRATE = 24.0 GPM	

Grease Interceptor Sizing Worksheet				
Project:	City of Kingsville - New Fire Station No. 3			
Location:	2602 S 6th ST, KINGSVILLE, TX 78363			
Engineer (or Name):	Jeff Lopez			
Firm:	DBR Engineering			
Date:	1/16/2025			
	Fixture Type	Trap Arm Size	Fixture Units FU	Quantity
Drainwater				Extended
Hazed Sink		1-1/2"	2	2
				4
			Total Fixture Units	8
			Grease Interceptor Size	GT = 600
Authorized by: Park Environmental Equipment Tel:888-614-1444 WWW.PARK-USA.COM 2/2011				



BROWN REYNOLDS WATFORD ARCHITECTS
172 JENNY SQUARE DRIVE
SUITE 330
HOUSTON, TEXAS 77040
713.664.1200
WWW.BRWARCH.COM



DBR ENGINEERING
713.640.888
713.640.888
713.640.888
713.640.888

KINGSVILLE FIRE STATION NO. 3
2602 S 6TH ST.
KINGSVILLE, TX 78363

NO.	REVISION	DATE

P6.02

PLUMBING DETAILS

ISSUE FOR BID



04/24/2025

BROWN REYNOLDS WATFORD ARCHITECTS

175 CENTURY SQUARE DRIVE
SUITE 330
DALLAS, TEXAS 75240
214.904.1720
WWW.BRWARCH.COM

+

BRW

DBR

713.424.0885
https://www.dbrinc.com
Texas Registered Professional Engineer
No. 12484
Exp. 08/2026
BRW DESIGN SOLUTIONS, LLC

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BROWN REYNOLDS WATFORD ARCHITECTS, INC.
DATE APRIL 24, 2025
DRAWN BY DBR
CHECKED BY DBR
BRW PROJECT NUMBER 223136.00

KINGSVILLE
FIRE STATION NO. 3

2602 S 6TH ST.
KINGSVILLE, TX 78363

NO.	REVISION	DATE

E0.01

ELECTRICAL SYMBOL
LEGEND

ABBREVIATIONS		ELECTRICAL SYMBOLS		GENERAL NOTES: A. NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.								
<div>AC ALTERNATING CURRENT AF AMPERE FUSE, AMPERE FRAME AFC ABOVE FINISHED CEILING AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE ACI AMPERE INTERRUPT CAPACITY AL ALUMINUM AM AMMETER AMP AMPLIFIER ANN ANNUNCIATOR ASC AMPERES SHORT CIRCUIT AT AMPERE TRIP RATING ATS AUTOMATIC TRANSFER SWITCH AUX AUXILIARY BRF BREAKER BLDG. BUILDING C CIRCUT, CELSIUS CCT CIRCUT CLG. CEILING COIT. CONTINUOUS CONTINUATION CONT. CONTROLLER, CONTRACTOR CT CURRENT TRANSFORMER/COOLING TOWER CU COPPER DAS DISTRIBUTED ANTENNA SYSTEM DC DIRECT CURRENT DISC DISCONNECT DP DISTRIBUTION PANEL DPDT DOUBLE-POLE DOUBLE-THROW DPST DOUBLE-POLE SINGLE-THROW DWG. DRAWING ELEV. ELEVATOR EPO EMERGENCY POWER OFF EPRC EMERGENCY (IC) RESPONSE/RADIO COVERAGE SYSTEM FA FIRE ALARM FF FURNITURE FEED FLA FULL LOAD AMPS FTL FEEDTHRU LUGS GA GAUGE GEN GENERATOR GND GROUND GTD GENERATOR OR TRANSFER DEVICE IG ISOLATED GROUND LF LINEAR FEET LTG LIGHTING LV LOW VOLTAGE LVL LEVEL MAX. MAXIMUM MC METAL CLAD CABLE MCA MINIMUM CIRCUIT AMPS MCB MAIN CIRCUIT BREAKER MCCB MOLDED CASE CIRCUIT BREAKER MD MOTORIZED DAMPER MDP MAIN DISTRIBUTION PANEL MFR MANUFACTURER MIC MICROPHONE MIN. MINIMUM MLO MAIN LUGS ONLY MOCP MAXIMUM OVER-CURRENT PROTECTION MSB MAIN SWITCHBOARD NEMA NEMA 3P N4X NEMA 4X NCC NORMALLY CLOSED NED NATIONAL ELECTRICAL CODE NF NON-FUSED NFB NON-FUSED SWITCH NCT NOT IN CONTRACT NL NIGHT LIGHT NLO NORMALLY OPEN NLT NUMBER NTS NOT TO SCALE PH PHASE POS POINT OF SALE QTY QUANTITY RCP REFLECTED CEILING PLAN RCPPT RECEPTACLE REF REFERENCE, REFER SF SQUARE FOOT SM SIMILAR SNVA STARTING KILO-VOLT-AMPS SPD SURGE PROTECTION DEVICE SPDT SINGLE-POLE DOUBLE-THROW SPST SINGLE-POLE SINGLE-THROW SPEC SPECIFICATION SQFT SQUARE FOOT ST SHUNT TRIP SWB SWITCHBOARD TLC TWIST-LOCK TOC TOP OF CURB TOS TOP OF STEEL TR TAMPER RESISTANT RECEPTACLE TV TELEVISION TYP TYPICAL UG UNDERGROUND UNO UNLESS NOTED OTHERWISE UPS UNINTERRUPTIBLE POWER SYSTEM VFD VARIABLE FREQUENCY DRIVE WP WEATHERPROOF IN USE COVER WT WATER TIGHT, WEIGHT WSP WATTS PER SQUARE FOOT XFRM TRANSFORMER</div>		<div><div>MOTORS AND CONTROLS</div><div><div></div><div>MOTOR RATED SWITCH WITH THERMAL OVERLOADS</div></div><div><div></div><div>SINGLE OR THREE PHASE MOTOR NUMBER INDICATES HORSE POWER</div></div><div><div></div><div>ELECTRIC DUCT HEATER</div></div><div><div></div><div>DISCONNECT (SAFETY) SWITCH "200/315/150" DENOTES AMPERES/POLES/FUSE, "110" DENOTES 110V-150V</div></div><div><div></div><div>ENCLOSED CIRCUIT BREAKER "200/315/150" DENOTES AMPERES/POLES/TRIP</div></div><div><div></div><div>MOTOR STARTER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26</div></div><div><div></div><div>COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER "200/315/150" DENOTES AMPERES/POLES/FUSE, STARTER SIZE "110" DENOTES 110V-150V, FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26</div></div><div><div></div><div>VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26</div></div><div><div></div><div>EMERGENCY POWER OFF BUTTON</div></div></div> <div><div>RECEPTACLES AND OUTLETS</div><div>ALL RECEPTACLES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS.</div><div>ABBREVIATIONS APPLICABLE TO RECEPTACLES "GFI" GROUND FAULT INTERRUPTER "WP" WEATHERPROOF "IG" ISOLATED GROUND "TR" TAMPER RESISTANT "USB" RECEPTACLE WITH USB CHARGING PORTS "AC" ABOVE COUNTER MOUNTING "UC" UNDER COUNTER MOUNTING "H" HORIZONTALLY ORIENTED RECEPTACLE</div><div><div></div><div>SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.</div></div><div><div></div><div>DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.</div></div><div><div></div><div>SHADE INDICATES SPLIT-WIRED</div></div><div><div></div><div>FOURPLEX (QUADPLEX) RECEPTACLE</div></div><div><div></div><div>DUPLEX RECEPTACLE (PEDESTAL, MOUNTED)</div></div><div><div></div><div>CONTROLLED WALL RECEPTACLE</div></div><div><div></div><div>DUPLEX, SPLIT-WIRED</div></div><div><div></div><div>QUAD, SEPARATELY WIRED UNDER A COMMON COVERPLATE</div></div><div><div></div><div>POWER DEVICE RED IN COLOR, ON EMERGENCY POWER CIRCUIT</div></div><div><div></div><div>CEILING RECEPTACLE/QUAD, EMERGENCY POWER SYMBOL, MAY APPLY</div></div><div><div></div><div>SPECIAL RECEPTACLE, NEMA CONFIGURATION PER PLAN OR EQUIPMENT</div></div><div><div></div><div>TV ROUGH-IN, 30X10 RECESSED TV BOX, CONTAINING 1 DUPLEX RECEPTACLE, 1 GANG FOR 1 AVO FOR DATA</div></div><div><div></div><div>FLOOR BOX OR POKE THRU, POST-THRU'S WHERE IN SUSPENDED SLABS, RECESSED IN FOUNDATION WHERE SLABS ON GRADE</div></div><div><div></div><div>FLUSH ELECTRICAL FLOOR OUTLET, REFER TO FLOOR BOX SCHEDULE, FIRE RATED, POKE-THROUGH SCHEDULE AND KEYED NOTES</div></div><div><div></div><div>DROP CORD WITH SIMPLEX RECEPTACLE UNLESS OTHERWISE NOTED</div></div><div><div></div><div>CORD REEL WITH DUPLEX RECEPTACLE UNLESS OTHERWISE NOTED</div></div><div><div></div><div>JUNCTION BOX</div></div><div><div></div><div>"H" INDICATES POWER CONNECTION TO SERVE MOTOR DAMPER</div></div><div><div></div><div>"H" INDICATES POWER CONNECTION TO SERVE HAND DRIVER</div></div><div><div></div><div>"FV" INDICATES POWER CONNECTION TO SERVE FLUSH VALVES</div></div><div><div></div><div>PULL BOX (OVER 4 SQUARE)</div></div><div><div></div><div>BELL/UZERBELLZ-CHIME</div></div><div><div></div><div>PUSH BUTTON/DOOR BELL/START-STOP</div></div><div><div></div><div>POWER POLE</div></div><div><div></div><div>POINT OF DIRECT CONNECTION TO EQUIPMENT</div></div><div><div></div><div>CLOCK, RECEPTACLE SHALL BE MOUNTED 12" BELOW FINISHED CEILING, (2) DENOTES DOUBLE SIDED CLOCK</div></div></div>		<div><div>RACEWAYS AND WIRING</div><div><div></div><div>CAP AND STAKE</div></div><div><div></div><div>CONDUIT CONCEALED IN WALL OR CEILING</div></div><div><div></div><div>UNDERGROUND, UNDERSLAB, CONCEALED ROUTING</div></div><div><div></div><div>OVERHEAD ELECTRIC PRIMARY UTILITY POWER LINE</div></div><div><div></div><div>CONDUIT UP/DOWN</div></div><div><div></div><div>HASH MARKS INDICATE NUMBER OF CONDUCTORS, LEFT TO RIGHT: PHASE/NEUTRAL/GROUND/INSULATED GROUND, NO HASH MARKS INDICATES EMPTY CONDUIT, 1" MINIMUM, UNLESS NOTED OTHERWISE</div></div><div><div></div><div>HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED</div></div><div><div></div><div>PARTIAL/SHARED CIRCUIT HOMERUN TO PANEL</div></div><div><div></div><div>TELECOMMUNICATIONS CABLE TRAY SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED</div></div><div><div></div><div>DISTRIBUTION PANEL</div></div><div><div></div><div>SWITCHBOARD, MAIN DISTRIBUTION PANEL, OR MOTOR CONTROL CENTER</div></div><div><div></div><div>PANELBOARD (FLUSH/SURFACE MOUNT)</div></div><div><div></div><div>FLOOR MOUNTED DRY-TYPE TRANSFORMER</div></div><div><div></div><div>SUSPENDED OR WALL MOUNTED TRANSFORMER</div></div><div><div></div><div>AUTOMATIC TRANSFER SWITCH</div></div><div><div></div><div>FIRE RATED PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4 X 8 X 3/4" UNLESS NOTED OTHERWISE</div></div></div> <div><div>COMMUNICATIONS</div><div>DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN, 18" ABOVE FINISHED FLOOR (AFF)</div><div><div></div><div>DATACOM/COMM ROUGH-IN, CONDUIT TO PLENUM AND BOX ONLY</div></div><div><div></div><div>SCHOOL INTERCOMMUNICATION SYSTEM HANDSET</div></div><div>DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN, 42" AFF</div><div><div></div><div>VOLUME CONTROL - WALL MOUNTED</div></div><div><div></div><div>INTERCOM/PA SYSTEM CALL-IN OR CALL-BACK DEVICE</div></div><div>DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN, 120" AFF OR 12" BELOW CEILING, WHICHEVER IS LOWER</div><div><div></div><div>INTERCOM/PA SPEAKER</div></div><div><div></div><div>"L" LOCAL SOUND REINFORCEMENT</div></div><div><div></div><div>CEILING MOUNTED DEVICES</div></div><div><div></div><div>INTERCOM/PA SPEAKER</div></div><div><div></div><div>"V" INDICATES VOLUME CONTROL ON SPEAKER</div></div><div>REFERENCE TECHNICAL/SECURITY SHEET FOR ADDITIONAL INFORMATION.</div></div>		<div><div>MISCELLANEOUS</div><div><div></div><div>SHADED SYMBOLS INDICATE EXISTING DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.</div></div><div><div></div><div>INDICATES WALL-MOUNTED WHEN ATTACHED TO ANY SYMBOL.</div></div><div><div></div><div>DRAWING NOTE REFERENCE</div></div><div><div></div><div>AREA OF RESCUE ASSISTANCE</div></div><div><div>FIRE ALARM</div><div><div></div><div>WATER FLOW SWITCH</div></div><div><div></div><div>SUPERVISORY / SWITCH</div></div><div><div></div><div>SMOKE DETECTOR - MULTI CRITERIA DETECTOR</div></div><div><div></div><div>SMOKE DETECTOR - "SB" INDICATES INTEGRAL SOUNDER BASE "D" INDICATES DUCT TYPE "R" INDICATES 120 VOLT RESPIRATOR TYPE</div></div><div><div></div><div>HEAT DETECTOR</div></div><div><div></div><div>BEAM DETECTOR TRANSMITTER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.</div></div><div><div></div><div>BEAM DETECTOR RECEIVER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.</div></div><div><div></div><div>FIRE ALARM SPEAKER STROBE / CEILING MOUNTED</div></div><div><div></div><div>FIRE ALARM SPEAKER / CEILING MOUNT.</div></div><div><div></div><div>MAGNETIC DOOR HOLDER</div></div><div><div></div><div>AUXILIARY CONTROL RELAY</div></div><div><div></div><div>FIRE FIGHTER HANDSET</div></div><div><div></div><div>FIRE ALARM PULL STATION +42" AFF</div></div><div><div></div><div>FIREMAN'S TELEPHONE JACK +42" AFF</div></div><div><div></div><div>AUDIO VISUAL FIRE ALARM HORN STROBE +80" AFF, 1575cd U.I.O.</div></div><div><div></div><div>VISUAL FIRE ALARM (STROBE) CEILING MOUNT - 1575cd U.I.O.</div></div><div><div></div><div>AUDIO FIRE ALARM HORN +80" AFF</div></div><div><div></div><div>FIRE ALARM CONTROL PANEL</div></div><div><div></div><div>REMOTE FIRE ALARM ANNUNCIATOR PANEL</div></div><div><div></div><div>REMOTE POWER SUPPLY FOR AUDIO/VISUAL FIRE ALARM DEVICES</div></div><div><div></div><div>FIRE SMOKE DAMPER</div></div><div><div></div><div>REMOTE LED INDICATOR LIGHT</div></div><div><div></div><div>RUI+STP REMOTE SWITCH</div></div></div></div> <div><div>SECURITY</div><div><div></div><div>ADA AUTO DOOR OPEN BUTTON</div></div><div><div></div><div>DOOR RELEASE BUTTON</div></div><div><div></div><div>WALL MOUNTED CARD READER</div></div><div>REFERENCE TECHNICAL/SECURITY SHEET FOR ADDITIONAL INFORMATION.</div></div> <div><div>SWITCHES AND LIGHTING CONTROL DEVICES</div><div>ALL SWITCH TYPES AND SENSOR TYPES FOUND ON LIGHTING CONTROL DEVICE SCHEDULE LOCATED ON ELECTRICAL SCHEDULE SHEETS</div><div>SWITCH ANNOTATION AS FOLLOWS TYPE PER SCHEDULE NO TYPE INDICATES SINGLE POLE TOGGLE SWITCH SWITCH LESS, PER PLAN, SHOWN HERE AS 3 (a,b,c) OCCUPANCY SENSOR ANNOTATION AS FOLLOWS OCCUPANCY / VACANCE SENSOR V INDICATES TYPE, PER SCHEDULE CEILING SENSOR WITH BRACKET INDICATES WALL / CORNER MOUNT LIGHT SENSOR ANNOTATION AS FOLLOWS DIGITAL PHOTOCELL DAYLIGHT HARVESTING SENSOR RELAY PAIRS, CONTACTORS, TIME SWITCHES RELAY/CONTACTOR/STORM/STORM/STORMS WHERE "X" INDICATES "LC" LIGHTING CONTRACTOR "LCP" LIGHTING CONTROL PANEL "TS" TIME SWITCH "TC" TIME CLOCK</div></div> <div><div>DRAWING/DETAIL REFERENCE KEY</div><div><div></div><div>REFER TO DRAWING/DETAIL NUMBER</div></div><div><div></div><div>SHEET NUMBER</div></div></div> <div><div>PANELBOARD NOMENCLATURE</div><div>5 DP C H A 1 SUB PANEL AREA VOLTAGE H 48Y/27V L 208Y/120V BRANCH NONE NORMAL E LIFE SAFETY C EQUIPMENT C CRITICAL R LEGALLY REQUIRED X OFFICIAL STAT/CHY DISTRIBUTION PANEL (IF APPLICABLE) LEVEL</div></div> <tr><td colspan="2"><div><div>PHASING</div><div><div></div><div>EXISTING (TO REMAIN)</div></div><div><div></div><div>TO BE DEMOLISHED</div></div><div><div></div><div>PROVIDE NEW</div></div><div><div></div><div>RELOCATED ELEMENT</div></div></div></td><td colspan="2"><div><div>HATCHING PATTERN IS BELOW SHALL APPLY TO ALL LIGHTING FIXTURE SYMBOLS.</div><div><div></div><div>EMERGENCY LIGHT FIXTURE WITH BATTERY PACK, PROVIDE WITH UNSWITCHED HOT FOR LOSS OF VOLTAGE AND CHARGING (SAME CIRCUIT AS NORMAL POWER LIGHTING), FIXTURES SHALL BE WIRED IN A MANNER AS TO ALLOW SWITCHING OF FIXTURES WITHOUT DISCHARGING THE EMERGENCY 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AUA.</div></div></td></tr>	<div><div>PHASING</div><div><div></div><div>EXISTING (TO REMAIN)</div></div><div><div></div><div>TO BE DEMOLISHED</div></div><div><div></div><div>PROVIDE NEW</div></div><div><div></div><div>RELOCATED ELEMENT</div></div></div>		<div><div>HATCHING PATTERN IS BELOW SHALL APPLY TO ALL LIGHTING FIXTURE SYMBOLS.</div><div><div></div><div>EMERGENCY LIGHT FIXTURE WITH BATTERY PACK, PROVIDE WITH UNSWITCHED HOT FOR LOSS OF VOLTAGE AND CHARGING (SAME CIRCUIT AS NORMAL POWER LIGHTING), FIXTURES SHALL BE WIRED IN A MANNER AS TO ALLOW SWITCHING OF FIXTURES WITHOUT DISCHARGING THE EMERGENCY LIGHTING, BATTERY PACK IS TO ONLY OPERATE IN THE EVENT OF A POWER OUTAGE, "NL" NIGHT LIGHT ON UNSWITCHED 24-HR OPERATION</div></div><div><div></div><div>LIGHT FIXTURE ON LIFE SAFETY BRANCH CIRCUIT, GENERATOR TRANSFER DEVICES REQUIRED (UNLESS OTHERWISE NOTED), NEUTRAL AND GROUND FOR ALL LIFE SAFETY LIGHTING ORIGINATING FROM THE LIFE SAFETY CIRCUIT 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GENERAL ELECTRICAL SITE PLAN NOTES:

- A. ALL EQUIPMENT LOCATIONS ARE APPROXIMATE. COORDINATE WITH ARCHITECT/CIVIL PRIOR TO INSTALLATION FOR EXACT EQUIPMENT LOCATION.
- B. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING TO AVOID DAMAGE TO EXISTING POWER, COMMUNICATIONS, SEWER/SANITARY, WATER AND/OR GAS LINES, THAT MAY BE BURIED IN AREA OF NEW CONSTRUCTION OR WHEN DIGGING NEW TRENCH FOR NEW FEEDERS.
- C. COORDINATE ALL WORK WITH ARCHITECTURAL AND CIVIL PLANS BEFORE INSTALLATION OF ALL ELECTRICAL EQUIPMENT GEAR.
- D. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL PULL STRINGS TO ALL UNDERGROUND EMPTY CONDUITS.
- E. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DATA/COMM TECHNOLOGY INSTALLER FOR EXACT NUMBER OF EMPTY CONDUITS AND SIZES OF ALL THE UNDERGROUND DATA/COMM CONDUITS.
- F. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS WHERE CONDUIT PATH CROSSES UNDER EXISTING PAVEMENT. CONTRACTOR SHALL BORE UNDER PAVEMENT.
- G. CONTRACTOR SHALL PROVIDE FLUSH WITH GRADE PULL-BOXES AS REQUIRED EVERY 250' MAXIMUM FOR DIVISION 26 AND 150' FOR DIVISION 27/28. SERVICE LATERAL PULL-BOXES SHALL BE COORDINATED WITH THE POWER COMPANY AND THEIR SPECIFICATIONS.

LIGHTING GENERAL NOTES:

- A. CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH PERFORMANCE DESCRIPTION INDICATED IN THE LIGHTING CONTROL DEVICE SCHEDULE FOUND ON SCHEDULE SHEETS.
- B. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED UNDER A COMMON COVER PLATE.
- C. PROVIDE LABELING OF ALL CONTROL DEVICES, SWITCH PACKS, LIGHT FIXTURES, JUNCTION BOXES, ETC IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.
- D. LIGHTING FIXTURE LOCATIONS SHOWN TAKE PRECEDENT IN CEILING LOCATION TO ALL OTHER TRADES. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ENSURING OTHER TRADES DO NOT IMPACT SPACING AND/OR OVERLAPMENT OF OTHER DEVICES WHERE LIGHT FIXTURES MUST BE INSTALLED.
- E. REFERENCE SYMBOLS LEGEND FOR LIGHT SWITCH DEVICE NOMENCLATURE AND SWITCH-LEG ASSOCIATIONS.
- F. ALL 2X2, 2X4 FIXTURES INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH (4) SECONDARY SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE. ALL CAN AND PENDANT LIGHTS INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE.
- G. NO WALL MOUNTED CONDUIT IN APPARATUS BAY, ALL WITHIN WALLS.

EMER. LIGHTING GENERAL NOTES:

- A. PROVIDE ALL EMERGENCY LIGHT FIXTURES WITH UNSWITCHED HOT LEG AS DEFINED IN NEC 700.12.
- B. ROUTE AN UNSWITCHED HOT LEG TO ALL LIGHT FIXTURES DESIGNATED AS EMERGENCY FIXTURES. HOT LEG SHALL ORIGINATE FROM CIRCUIT SERVING NORMAL LIGHTING FIXTURES IN THAT SPACE. UNSWITCHED HOT LEGS SHALL CONNECT TO THE NORMAL POWER SENSING LUG ON THE EMERGENCY BATTERY PACK.
- C. ALL SINGLE FACED EXIT SIGNS SHALL BE FIXTURE 2'X1' AND ALL DUAL FACED EXIT SIGNS SHALL BE FIXTURE 2'X2'. PROVIDE UNSWITCHED 120V CIRCUIT TO ALL EXIT SIGNS FROM CIRCUIT INDICATED ON PLANS. REFERENCE PLANS FOR CHEVRON CONFIGURATION COORDINATE INSTALLATION REQUIREMENT WITH ARCHITECTURAL PLANS.

GENERAL ELECTRICAL NOTES:

- A. ELECTRICAL DEVICES SHOWN ARE NOT EXACT. ALL DEVICE LOCATIONS SHALL BE VERIFIED WITH ARCHITECTURAL MILLWORK, CASEWORK, AND GENERAL ELEVATION VIEWS.
- B. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL TECHNOLOGY, LOW VOLTAGE, ACCESS CONTROL, SECURITY, SURVEILLANCE, AND OTHER DIVISION 27/28 SCOPE. REFER TO DIVISION 27/28 DRAWINGS AND SPECIFICATIONS FOR ALL WORK REQUIRED. OMISSION OF THIS SCOPE FROM DIV 28 SCOPE OF WORK IS PROHIBITED.
- C. HVAC AND PLUMBING EQUIPMENT LOCATIONS ARE NOT EXACT. AND THE EXACT POINT OF CONNECTION TO EQUIPMENT MAY VARY. COORDINATE EXACT ROUGH-IN REQUIREMENTS IN FIELD AND WITH FINAL SUBMITTALS FOR ALL DIV. 21/22/23 EQUIPMENT.
- D. PROVIDE LABELING OF ALL DEVICES, CONDUIT, PANELS, AND JUNCTION BOXES IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.
- E. MINIMIZE ROOF PENETRATIONS. WHERE ABLE, ROUTE ALL CONDUIT FOR ROOF MOUNTED EQUIPMENT THROUGH ROOF CURB. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING NECESSARY WATER PROOFING AROUND ROOF PENETRATIONS WITH ROOFING INSTALLER.
- F. ALL RECEPTACLES LOCATED IN APPARATUS BAY, RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, ELEVATOR PITS OR SHAFTS, ELEVATOR EQUIPMENT ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. FEED-THRU GFCI/PT IS PROHIBITED. ALL GFCI/PT DEVICES SHALL BE PROVIDED WITH INDIVIDUAL TEST/RESET FEATURES.
- G. MULTIWIRE HOME RUNS SHALL NOT BE ALLOWED. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. SHARING CONDUIT IS PERMISSIBLE WHERE TOTAL CONDUCTOR AMPACITY DERATING HAS BEEN PERFORMED BY ELECTRICAL CONTRACTOR. THE NEUTRAL IS CONSIDERED CURRENT-CARRYING.
- H. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. CONTRACTOR MAY PROVIDE NON-TAMPER RESISTANT RECEPTACLES WHERE NOT REQUIRED PER CURRENT NEC ARTICLE 408.
- I. LABEL ALL CIRCUITS AT ALL JUNCTION BOXES AND OUTLETS (AS DEFINED BY IEC) WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES OR ON COVER OF JUNCTION BOX. IF A BOX HAS MULTIPLE CIRCUITS WITHIN LABEL ALL CIRCUITS.
- J. ALL APPARATUS BAY AREA RECEPTACLES SHALL BE MOUNTED AT +48" AFF UNLESS NOTED OTHERWISE.
- K. ALL DUPLEX RECEPTACLES LABELED WITH 'USB' SHALL INCLUDE (1) USB-A PORT AND (1) USB-C PORT. ALL QUADRUPLICES LABELED 'USB' SHALL INCLUDE (2) USB-A PORTS AND (2) USB-C PORTS.
- L. NO WALL MOUNTED CONDUIT IN APPARATUS BAY, ALL WITHIN WALLS.
- M. ALL VFDs, MOTOR STARTERS, OR DISCONNECT SWITCHES SHALL BE SUPPLIED BY DIVISION 23 AND INSTALLED BY DIVISION 26 UNLESS NOTED OTHERWISE. ELECTRICAL CONNECTIONS SHALL BE PROVIDED BY DIVISION 26. DIVISION 26 SHALL COORDINATE WITH DIVISION 23 PRIOR TO ROUGH-IN.

FIRE ALARM GENERAL NOTES:

- A. CONTRACTOR SHALL SUBMIT LICENSED SEALED FIRE ALARM DRAWINGS TO THE ARCHITECT'S OFFICE FOR PLAN REVIEW BY MEANS OF DEFERRED SUBMITTAL.
- B. ALL CEILING MOUNTED DEVICES SHALL BE CENTERED IN THE CEILING TILE.
- C. ALL FIRE ALARM VISUAL AND AUDIO/VISUAL DEVICES SHALL BE CONFIGURED TO PROVIDE CALIBRA RATINGS IN ACCORDANCE WITH ADA & NFPA COVERAGES.
- D. CONTRACTOR SHALL PROVIDE 120V DEDICATED 20A BRANCH CIRCUIT WITH LOCK-ON BREAKER PROVISIONS TO EACH SPEAKER AMPLIFIER AND VISUAL DEVICE POWER SUPPLIES AS REQUIRED BY FIRE ALARM SHOP DRAWINGS, CONNECT TO EMERGENCY POWER WHEN AVAILABLE.
- E. ALL WIRING FOR DEVICES IN EXPOSED STRUCTURE AREAS SHALL BE ROUTED WITHIN CONDUIT. EXPOSED ROUTING SHALL BE AVOIDED. EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
- F. CONTRACTOR SHALL PROVIDE CONDUIT PATHWAYS FOR FIRE ALARM ALARM CONDUCTORS WHERE ROUTED ABOVE HARD CEILING AREAS. CONDUIT RACEWAYS SHALL ALLOW ACCESS TO CONDUIT AT EACH END IN ACCESSIBLE LOCATIONS ABOVE CEILINGS.
- G. LOCATE NEW SMOKE DETECTORS IN THE PATH OF EGRESS. ELECTRICAL, MECHANICAL, IDF ROOMS, STORAGE ROOMS AND OTHER LOCATIONS IN CHILDREN'S AREAS.
- H. DUCT MOUNTED SMOKE DETECTORS SERVING HVAC UNITS WITH 2000 CFM OR GREATER SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION IN RETURN AIR DUCT INSIDE THE BUILDING THE UNIT SERVES. IT IS NOT ACCEPTABLE TO INSTALL DUCT MOUNTED SMOKE DETECTORS AT THE HVAC UNIT ON THE ROOF OR EXTERIOR OF THE BUILDING.
- I. LOCATE HEAT DETECTORS IN BREAKROOM AREAS.
- J. PROVIDE NEW AUDIO & VISUAL DEVICES PER APPLICABLE CODE.
- K. REFER TO PERFORMANCE SPECIFICATION NUMBER 28.46.00-DBR FIRE ALARM SYSTEM WITH ELECTRONIC AUDIO AND VISUAL DEVICES FOR DESIGN CRITERIA.

NOTE TO ELECTRICAL CONTRACTOR:

ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL TECHNOLOGY, LOW VOLTAGE, ACCESS CONTROL SECURITY, SURVEILLANCE, AND OTHER DIVISION 27/28 SCOPE. ELECTRICAL CONTRACTOR SHALL REFER TO AV SYSTEM PLANS AND TECHNOLOGY PLANS FOR LOCATIONS AND ADDITIONAL ROUGH-IN INFORMATION. OMISSION OF THIS SCOPE FROM DIV 28 SCOPE OF WORK IS PROHIBITED.



04/24/2025

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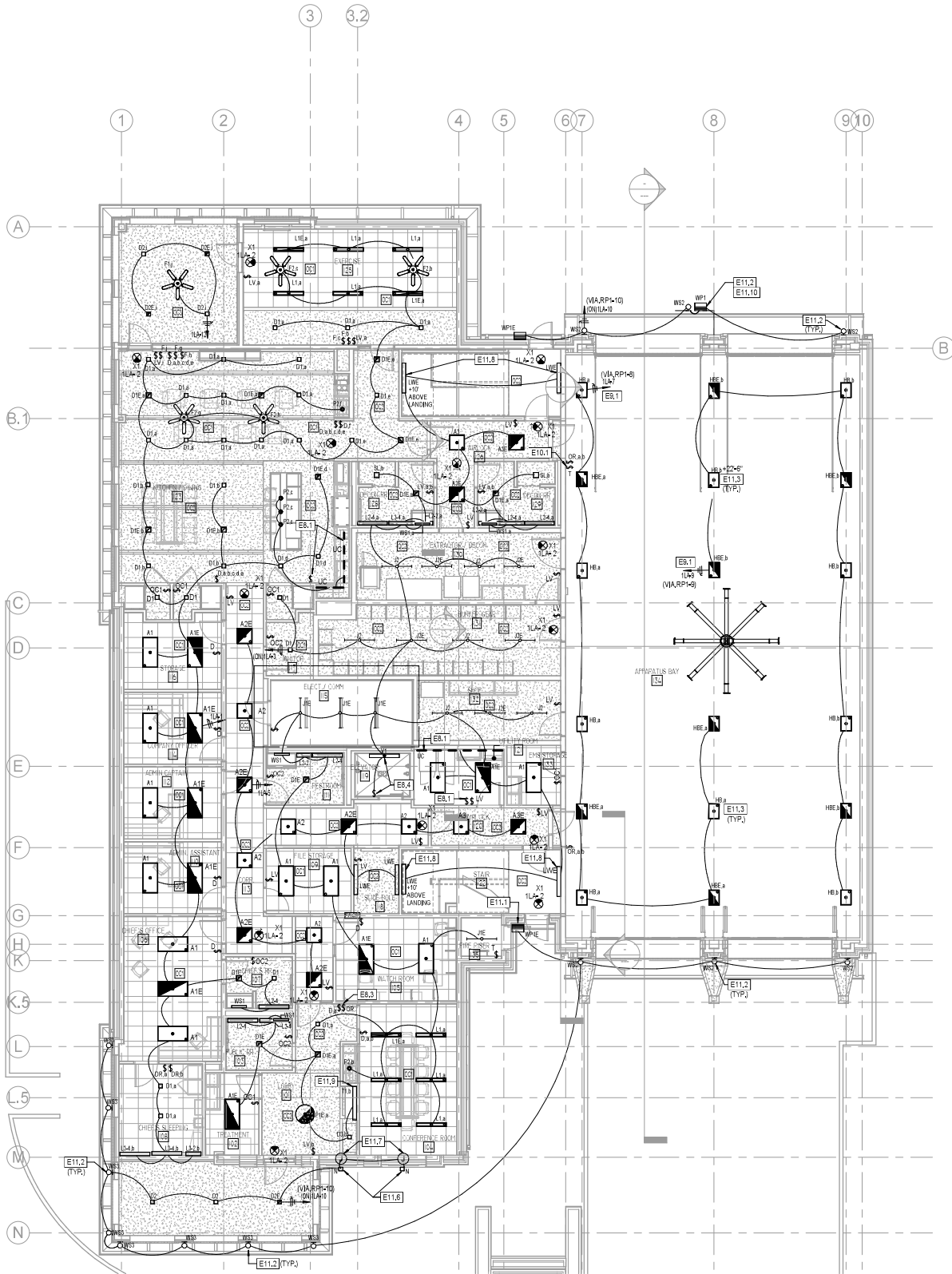
KINGSVILLE
FIRE STATION NO. 3

2602 S 6TH ST.
KINGSVILLE, TX 78363

NO.	REVISION	DATE

E0.11

ELECTRICAL GENERAL
NOTES



1 FIRST LEVEL ELECTRICAL LIGHTING PLAN
1/8" = 1'-0"

ELECTRICAL KEYED NOTES

- E0.1 PROVIDE UNDER CABINET LIGHTING WITH LOCAL LINE VOLTAGE SWITCH. COORDINATE EXACT LENGTH WITH ARCHITECT AND MILLWORK INSTALLER PRIOR TO ORDERING. FIELD COORDINATE WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E0.3 PROVIDE OVERRIDE SWITCH FOR RELAY RPT-10 SERVING EXTERIOR LIGHTING. LABEL SWITCH "EXTERIOR LIGHTING". LOCATE ADJACENT TO INTERIOR LIGHTING SWITCH. FIELD COORDINATE WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E0.4 PROVIDE LIGHT AND LIGHT SWITCH IN THE ELEVATOR PIT FOR ELEVATOR PIT LIGHTING. COORDINATE EXACT LOCATION WITH ELEVATOR EQUIPMENT REQUIREMENTS. ELEVATOR INSTALLER AND ACCESS LADDER PRIOR TO ROUGH-IN.
- E0.5 APPARATUS BAY LIGHTS SHALL BE TIED TO ALERTING SYSTEM. WHEN A CALL OCCURS THROUGH THE ALERTING SYSTEM, ALL APPARATUS BAY LIGHTING SHALL TURN ON. ONCE THE ALERTING SYSTEM RETURNS TO ITS NORMAL STATE, THE APPARATUS BAY LIGHTS SHALL RETURN TO THE ON/OFF STATUS FROM PRIOR TO THE CALL. REFERENCE RELAY PANEL SCHEDULE ON SHEET E0.1. FIELD COORDINATE WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E1.0 APPROXIMATE LOCATION OF 4 HOUR INTERMITTENT TIMER SWITCH SERVING EXTERIOR WALL PACK LIGHTING. ENGRAVE THE SWITCH AS "EXTERIOR BAY WORKLIGHT". FIELD COORDINATE EXACT LOCATION, INSTALLATION DETAILS, MODEL NUMBER, ETC. WITH ARCHITECT/OWNER PRIOR TO STARTING ANY WORK.
- E1.1 PROVIDE REMOTE BATTERY BACKUP FOR EXTERIOR EGRESS FIXTURE. REMOTE BATTERY BACKUP SHALL BE LOCATED INSIDE THE BUILDING FOR EASY ACCESS AND MAINTENANCE. COORDINATE WITH ARCHITECT PRIOR TO ROUGH-IN.
- E1.2 PROVIDE EXTERIOR WALLPACK SOURCE LIGHTING FIXTURE. CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION AND ELEVATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
- E1.3 PROVIDE LIGHTING FIXTURES AT APPROXIMATE LOCATION SHOWN. COORDINATE ALL FIELD WORK WITH OTHER TRADES. FIELD COORDINATE EXACT MOUNTING HEIGHT AND INSTALLATION DETAILS WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
- E1.6 APPROXIMATE LOCATION OF ARCHITECTURE TYPE "V". REFER TO ARCHITECTURAL DETAILS ON ARCHITECTURAL PLANS FOR EXACT LOCATION. FIELD COORDINATE EXACT LOCATION, INSTALLATION DETAILS, ADDITIONAL REQUIREMENTS, ETC. WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.
- E1.7 PROVIDE REMOTE JUNCTION BOX FOR FIXTURE TYPE "V". JUNCTION BOX SHALL BE REMOTELY LOCATED ABOVE THE CEILING BEHIND THE WALL. ROUTE WIRING DOWN STUD AND THROUGH WALL AT FIXTURE LOCATION. FIELD COORDINATE EXACT LOCATION AND INSTALLATION DETAILS. ADDITIONAL REQUIREMENTS, ETC. WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.
- E1.8 PROVIDE WALL MOUNTED LIGHTING FIXTURE. CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION AND ELEVATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
- E1.9 PROVIDE POWER TO (5) LINEAR DISPLAY CASE LIGHT FIXTURES. FIXTURES SHALL BE CONTROLLED WITH SWITCH ADJACENT TO DISPLAY CASE. REFER TO ARCHITECTURAL DETAILS FOR FURTHER INFORMATION. FIELD COORDINATE EXACT LOCATION AND INSTALLATION DETAILS WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
- E1.10 APPROXIMATE LOCATION OF EXTERIOR WALLPACK LIGHTING FIXTURE. LIGHTING FIXTURE SHALL BE CONTROLLED THROUGH TIMER SWITCH LOCATED IN APPARATUS BAY. REFER TO ELECTRICAL KEYED NOTE E1.0.1 FOR FURTHER DETAILS. CIRCUIT SHALL NOT BE ROUTED THROUGH RELAY CONTROLS. COORDINATE EXACT LOCATION, INSTALLATION DETAILS, CONTROL WIRING, ADDITIONAL REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

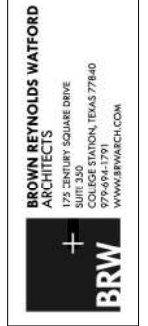


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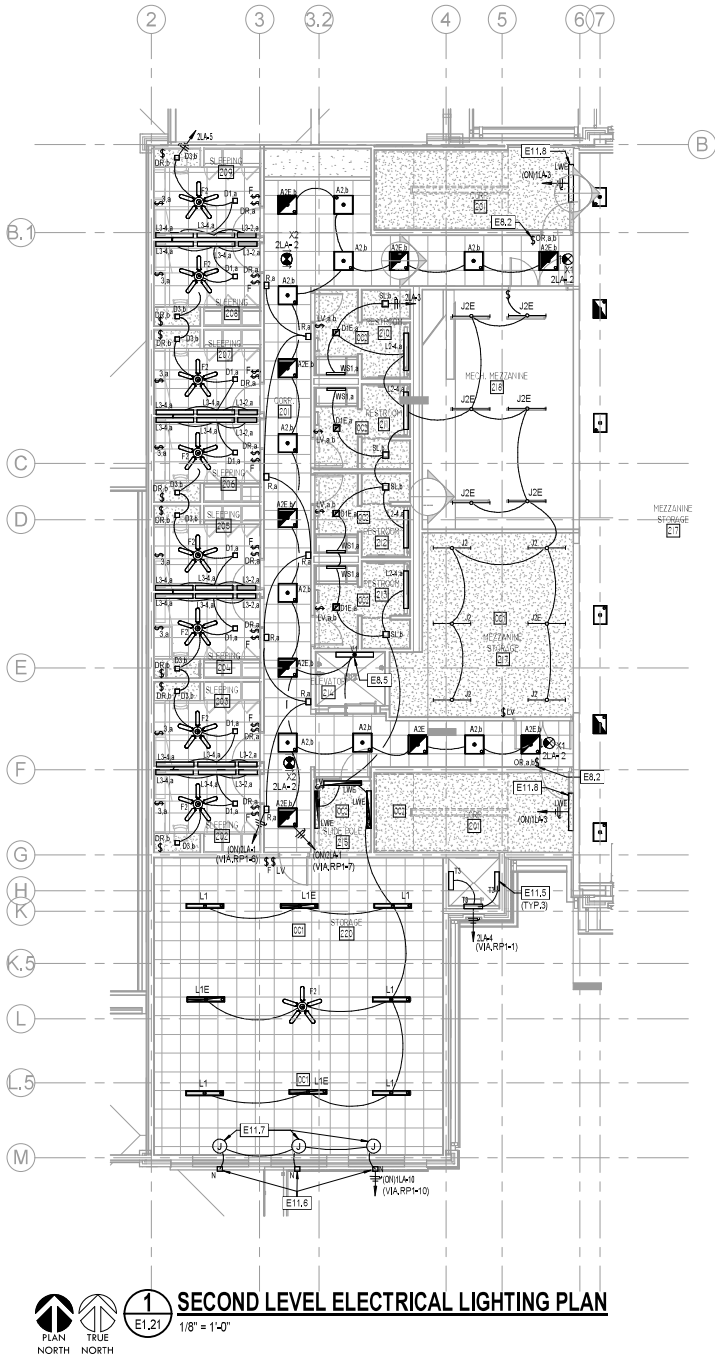
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E1.11



ELECTRICAL KEYED NOTES

- E0.2 OVERRIDE SWITCH SHALL CONTROL RELAYS SERVING CORRIDOR LIGHTING. SWITCH ZONE 'B' REPRESENTS 2'X2' LIGHTING AND SWITCH ZONE 'A' REPRESENTS 3'X3' LIGHTING. REFERENCE RELAY PANEL SCHEDULE FOR CONTROL DETAILS. FIELD COORDINATE WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E0.5 PROVIDE LIGHT AND LIGHT SWITCH IN THE ELEVATOR SHAFT FOR ELEVATOR SHAFT LIGHTING. COORDINATE EXACT LOCATION WITH ELEVATOR EQUIPMENT REQUIREMENTS, ELEVATOR INSTALLER AND ACCESS LADDER PRIOR TO ROUGH-IN.
- E11.5 APPROXIMATE LOCATION OF TOWER FIXTURE TYPE 'LE'. PROVIDE DISCONNECTING MEANS AS REQUIRED. LED DRIVER SHALL BE LOCATED IN AN ACCESSIBLE LOCATION FOR EASY ACCESS AND MAINTENANCE. REFER TO ARCHITECTURAL DETAILS ON ARCHITECTURAL PLANS FOR EXACT LOCATION. FIELD COORDINATE EXACT LOCATION, INSTALLATION DETAILS, ADDITIONAL REQUIREMENTS, ETC. WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.
- E11.6 APPROXIMATE LOCATION OF ARCH FIXTURE TYPE 'VI'. REFER TO ARCHITECTURAL DETAILS ON ARCHITECTURAL PLANS FOR EXACT LOCATION. FIELD COORDINATE EXACT LOCATION, INSTALLATION DETAILS, ADDITIONAL REQUIREMENTS, ETC. WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.
- E11.7 PROVIDE REMOTE JUNCTION BOX FOR FIXTURE TYPE 'VI'. JUNCTION BOX SHALL BE REMOTELY LOCATED ABOVE THE CEILING BEHIND THE WALL. ROUTE WIRING DOWN STUD AND THROUGH WALL AT FIXTURE LOCATION. FIELD COORDINATE EXACT LOCATION AND INSTALLATION DETAILS. ADDITIONAL REQUIREMENTS, ETC. WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.
- E11.8 PROVIDE WALL MOUNTED LIGHTING FIXTURE. CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION AND ELEVATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.



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GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

- E1.1 PROVIDE HUBBELL, FLOOR BOX MODEL #CFB3030R OR WITH SUB-PLATES #BMPRED & #BMPRKS. COORDINATE DEVICE COVER/FINISH WITH ARCHITECT PRIOR TO ORDERING. ROUTE (1) 3/4" CONDUIT FOR POWER & (1) 1/4" CONDUIT FOR DATA BELOW SLAB, TURN UP IN WALL AND ROUTE TO PLENUM. PROVIDE PULL STRING IN DATA CONDUIT. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- E1.2 PROVIDE HUBBELL, FLOOR BOX MODEL #CFB314CFB WITH SUB-PLATES #BTRASPDLX. COORDINATE DEVICE COVER/FINISH WITH ARCHITECT PRIOR TO ORDERING. ROUTE (1) 3/4" CONDUIT FOR POWER BELOW SLAB, TURN UP IN WALL AND ROUTE TO PLENUM. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- E3.1 PROPOSED LOCATION OF RECESSED GENERATOR AWH PANEL. (GAIN). CONTRACTOR SHALL CONFIRM EXACT INSTALLATION DETAILS AND FINAL LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E3.2 PROVIDE POWER CONNECTION TO BAY DOOR MOTOR CONTROLLER. DISCONNECT SHALL BE INSTALLED AT 5' AFF. FIELD COORDINATE EXACT LOCATION, CONTROL WIRING QUANTITIES, AND ADDITIONAL REQUIREMENTS WITH DOOR INSTALLER. ARCHITECT AND OWNER PRIOR TO ROUGH-IN. ROUTE (1) 3/4" CONDUIT WITH CONTROL WIRE TO EACH ASSOCIATED OPEN/CLOSE SWITCH. DISCONNECT FOR BAY DOOR MOTOR SHALL BE LOCATED AS INDICATED ON PLANS. FOR ALL OVERHEAD DOORS IN APPARATUS BAY PROVIDE THE FOLLOWING: 1 - EACH BAY DOOR SHALL BE OPERATED BY A PUSHBUTTON AT EACH CONTROL PANEL. CONTROL PANEL AT EACH HUBLOCK DOOR AND FIRE VEHICLE WIRELESS REMOTE MULTIBUTTON CONTROLLER. FIRE VEHICLE TO OPERATE EACH DOOR IN DEPENDENTLY FOR EACH BAY. COORDINATE INSTALLATION WITH THE FIRE DEPARTMENT. 2 - INTERLOCK WITH ALL APPARATUS BAY HEATERS TO TURN OFF WHEN GARAGE DOORS ARE OPENED. WHEN BAY DOORS ARE CLOSED HEATERS CAN BE ENERGIZED. 3 - GATE ACCESS PUSHBUTTON WIRELESS REMOTE FOR EACH FIRE STATION APPARATUS. 4 - AUTOMATIC TIMER TO CLOSE DOORS 10 MINUTES AFTER OPENING BY APPARATUS REMOTE ONLY.
- E3.3 APPROXIMATE LOCATION OF LARGE SURFACE MOUNTED APPARATUS BAY DOOR OPERATOR PANEL. LOCATION, NEXT TO AIR LOCK, WITH APPARATUS WIRELESS CONTROLS. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH ARCHITECT, OWNER, AND EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- E3.4 E-SERIES ENCLOSURE FOR FLAV2 SHALL BE SURFACE MOUNTED AT 6' BELOW CEILING IN PANTRY. PROVIDE 120V POWER AS NECESSARY. ON EMERGENCY POWER, ALL CONTROL LOW VOLTAGE WIRING SHALL BE PROVIDED BY THE EQUIPMENT SUPPLIER. FIELD COORDINATE FOR EXACT INSTALLATION DETAILS. FINISHED 120V AND 24VAC POWER LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E3.5 GRILL ELECTRONIC BALL VALVE AND RANGE/OVEN ELECTRONIC BALL VALVES (E-BV) S-SERIES ENCLOSURE SHALL BE SURFACE MOUNTED 6' BELOW CEILING IN PANTRY.
- E3.6 OGC (OUTDOOR GRILL CONTROLLER).
- E3.7 BGC (ELECTRIC GRILL CONTROLLER).
- E3.8 FLAV2 (FIRE STATION COOKING CONTROLLER). PROVIDE 120V POWER AS NECESSARY. ON EMERGENCY POWER, FIELD COORDINATE FOR EXACT INSTALLATION DETAILS. FINISHED 120V POWER LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E3.12 PROVIDE POWER TO HULS FAN. PROVIDE DISCONNECT MOUNTED TO ROOF STRUCTURE ADJACENT TO FAN. REFERENCE MECHANICAL PLANS FOR LOCATION OF FAN CONTROLS. FIELD COORDINATE EXACT LOCATION AND INSTALLATION DETAILS WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.
- E3.13 PROVIDE SINGLE POINT OF POWER AT COINTEGRATING UNIT FOR SPLIT DX SYSTEM. INDOOR UNIT SHALL BE POWERED FROM OUTDOOR UNIT. PROVIDE DISCONNECTING MEANS FOR BOTH PIECES OF EQUIPMENT. REFERENCE OUTDOOR SPLIT ELECTRICAL CONNECTION DETAIL.
- E3.14 PROVIDE DISCONNECTING MEANS FOR AIR COMPRESSOR (AC) AND ASSOCIATED AIR DRYER (AD). COORDINATE EXACT POWER REQUIREMENTS AND EQUIPMENT CONNECTIONS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- E3.23 COORDINATE EXACT LOCATION OF ELECTRICAL PUMP DISCONNECT WITH ELEVATOR INSTALLER. PUMP EQUIPMENT REQUIREMENTS AND PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- E3.25 PROVIDE 1" CONDUIT WITH PULL STRING FROM DESIGNATED LOCATION IN ELEVATOR TO ATS.

ELECTRICAL KEYED NOTES

- E4.1 PROVIDE REMOTE GFCI TEST/RESET BUTTON IN ACCESSIBLE LOCATION ADJACENT TO EQUIPMENT.
- E4.2 PROVIDE GFCI RECEPTACLE FOR DISHWASHER. THE RECEPTACLE SHALL BE LOCATED IN ACCESSIBLE LOCATION IN THE SPACE ADJACENT TO THE SPACE OCCUPIED BY THE DISHWASHER (JUDER 31K) WHERE AVAILABLE.
- E4.3 PROVIDE WEATHER PROOF INLAUSE COVER GFCI RECEPTACLE MOUNTED TO SOFFIT. CONTRACTOR SHALL COORDINATE EXACT INSTALLATION DETAILS, LOCATION, REQUIREMENTS, ETC. WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
- E4.5 PROVIDE RESET BUTTON GFCI TYPE DUPLEX RECEPTACLE IN THE ELEVATOR PIT. COORDINATE EXACT LOCATION WITH ELEVATOR INSTALLER AND ELEVATOR EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN.
- E4.7 PROVIDE 120V DEDICATED POWER FOR GEAR DRIVER. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- E4.9 PROVIDE 120V, 15 AMP DEDICATED POWER RECEPTACLE ON EMERGENCY POWER. RECEPTACLE SHALL BE CONTROLLED BY E-SERIES PANEL. ALL CONTROL LOW VOLTAGE WIRING SHALL BE PROVIDED BY THE EQUIPMENT SUPPLIER. FIELD COORDINATE FOR EXACT INSTALLATION DETAILS. FINISHED 120V POWER LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E5.1 PROVIDE 120V JUNCTION BOX CONNECTION FOR RANGE HOOD AND HOOD LIGHTS AND PROVIDE 20A GFCI RECEPTACLE FOR RANGE IGNITOR. PROVIDE REMOTE GFCI TEST/RESET BUTTON IN ACCESSIBLE LOCATION. FIELD COORDINATE EXACT LOCATION AND REQUIREMENTS OF ALL DEVICES/CONNECTIONS WITH RANGE HOOD INSTALLER/MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE ADA COMPLIANT SWITCHES FOR HOOD AND HOOD LIGHT.
- E5.2 PROVIDE 20A, 120V POWER CONNECTION TO "BREAK AWAY" RECEPTACLE CORD DROP IN THE APPARATUS BAY. EACH JUNCTION BOX REPRESENTS ONE CORD DROP. PROVIDE STAINLESS STEEL STRAIN RELIEF "XELUMS GRIPS" AT BOTH THE BOTTOM AND TOP OF THE POWER CORDS. ALONG WITH SUPPORTING STAINLESS STEEL CABLES ATTACHED TO STRUCTURE. FIELD COORDINATE FINAL DEVICE LOCATION WITH OWNER/ARCHITECT AND WITH FINAL PLACEMENT OF ALL APPARATUS BAY LIGHTING FIXTURES AND MECHANICAL EQUIPMENT. CONFIRM FINAL DEVICE TYPE AND AMP RATING PRIOR TO PURCHASE OR INSTALLATION. AND ADJUST ACCORDINGLY. MAKE CONNECTION WITH 20A, #6G, 1" C, RE 19/05.01.
- E5.3 PROVIDE 30A, 120V POWER CONNECTION TO "BREAK AWAY" RECEPTACLE CORD DROP IN THE APPARATUS BAY. EACH JUNCTION BOX REPRESENTS ONE CORD DROP. PROVIDE STAINLESS STEEL STRAIN RELIEF "XELUMS GRIPS" AT BOTH THE BOTTOM AND TOP OF THE POWER CORDS. ALONG WITH SUPPORTING STAINLESS STEEL CABLES ATTACHED TO STRUCTURE. FIELD COORDINATE FINAL DEVICE LOCATION WITH OWNER/ARCHITECT AND WITH FINAL PLACEMENT OF ALL APPARATUS BAY LIGHTING FIXTURES AND MECHANICAL EQUIPMENT. CONFIRM FINAL DEVICE TYPE AND AMP RATING PRIOR TO PURCHASE OR INSTALLATION. AND ADJUST ACCORDINGLY. MAKE CONNECTION WITH 30A, #6G, 1" C, RE 21/05.01.
- E5.5 PROVIDE BACK BOXES FOR CARD READERS AND ROUGH-IN FOR ELECTRIC STRIKE. PROVIDE RELAY TO INTERFACE WITH FIRE ALARM CONTROL PANEL. DOOR STRIKE SHALL DISengage IN ALARM STATE. COORDINATE EXACT LOCATION OF CARD READER AND ADDITIONAL HARDWARE REQUIREMENTS WITH ARCHITECT AND ACCESS CONTROLS VENDOR PRIOR TO ROUGH-IN. REFERENCE DETAIL #6502 FOR ADDITIONAL INFORMATION.
- E5.6 PROVIDE BACK BOXES FOR SECURITY CAMERAS. COORDINATE EXACT LOCATION OF CAMERA AND ADDITIONAL REQUIREMENTS WITH LOW VOLTAGE CONTRACTOR/INSTALLER. ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E5.7 PROVIDE 120V JUNCTION BOX FOR BOOSTER FAN. COORDINATE EXACT LOCATION OF FAN AND REQUIREMENTS WITH ARCHITECT AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- E5.8 PROVIDE 120V POWER AND DISCONNECTS TO MOTORIZED DAMPERS. COORDINATE COORDINATE ALL MOTORIZED DAMPER LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. REFER TO MECHANICAL PLANS FOR ALL LOCATIONS.
- E5.10 PROVIDE HARD WIRED SOAP DISPENSER. PROVIDE 12VOLT AC TRANSFORMER IF REQUIRED. COORDINATE WITH SOAP DISPENSER MANUFACTURER FOR TRANSFORMER REQUIREMENT. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
- E5.11 PROVIDE BACK BOX AND 120V POWER FOR WIRELESS ACCESS POINT CONNECTION. COORDINATE EXACT INSTALLATION DETAILS AND POWER REQUIREMENTS WITH LOW VOLTAGE CONTRACTOR/INSTALLER. ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E5.12 PROVIDE 120V POWER FOR CONNECTION TO IRRIGATION CONTROLLER BOX. FIELD COORDINATE WITH LANDSCAPE CONTRACTOR. ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.
- E5.13 ROUTE MINIMUM 1" CONDUIT WITH PULL STRING FROM IRRIGATION CONTROL BOX TO EXTERIOR OF BUILDING. ROUTE BELOW SLAB AND CONTINUE OUT OF BUILDING FROM IRRIGATION CONTROL BOX TO EXTERIOR OF BUILDING. STRIKE OUT TO EXTERIOR OF BUILDING AND CAP WITH WEATHERPROOF CAP. LABEL IRRIGATION CONTROLLER. FIELD COORDINATE WITH LANDSCAPE CONTRACTOR. ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.
- E5.14 PROVIDE 120V JUNCTION BOX CONNECTION FOR GARBAGE DISPOSAL UNDER SINK. PROVIDE MOTOR RATED SWITCH. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- E5.1 PROVIDE DATA POINT PATHWAY TO DAY ROOM 10A. REFER TO ELECTRICAL KEYED NOTE E5.2 FOR FURTHER DETAILS. FIELD COORDINATE FOR EXACT INSTALLATION DETAILS. WITH INSTALLER. ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E5.2 PROVIDE DATA POINT PATHWAY TO WATCH ROOM 10S. REFER TO ELECTRICAL KEYED NOTE E5.1 FOR FURTHER DETAILS. FIELD COORDINATE FOR EXACT INSTALLATION DETAILS. WITH INSTALLER. ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

GENERAL NOTE: ISIMET SYSTEM

THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THE ISIMET SYSTEM AND ANY RELAYS REQUIRED. THE PLUMBING CONTRACTOR SHALL ONLY INSTALL THE EBV'S AND MAKE CONNECTIONS TO GAS PIPING. ELECTRICAL IS RESPONSIBLE FOR EVERYTHING ELSE.

RESPONSIBILITY MATRIX

ELECTRICAL CONTRACTOR - PURCHASE OF COMPLETE ISIMET SYSTEM FROM ISIMET.

ISIMET SYSTEM SPECIFIC ORDERING NOMENCLATURE:

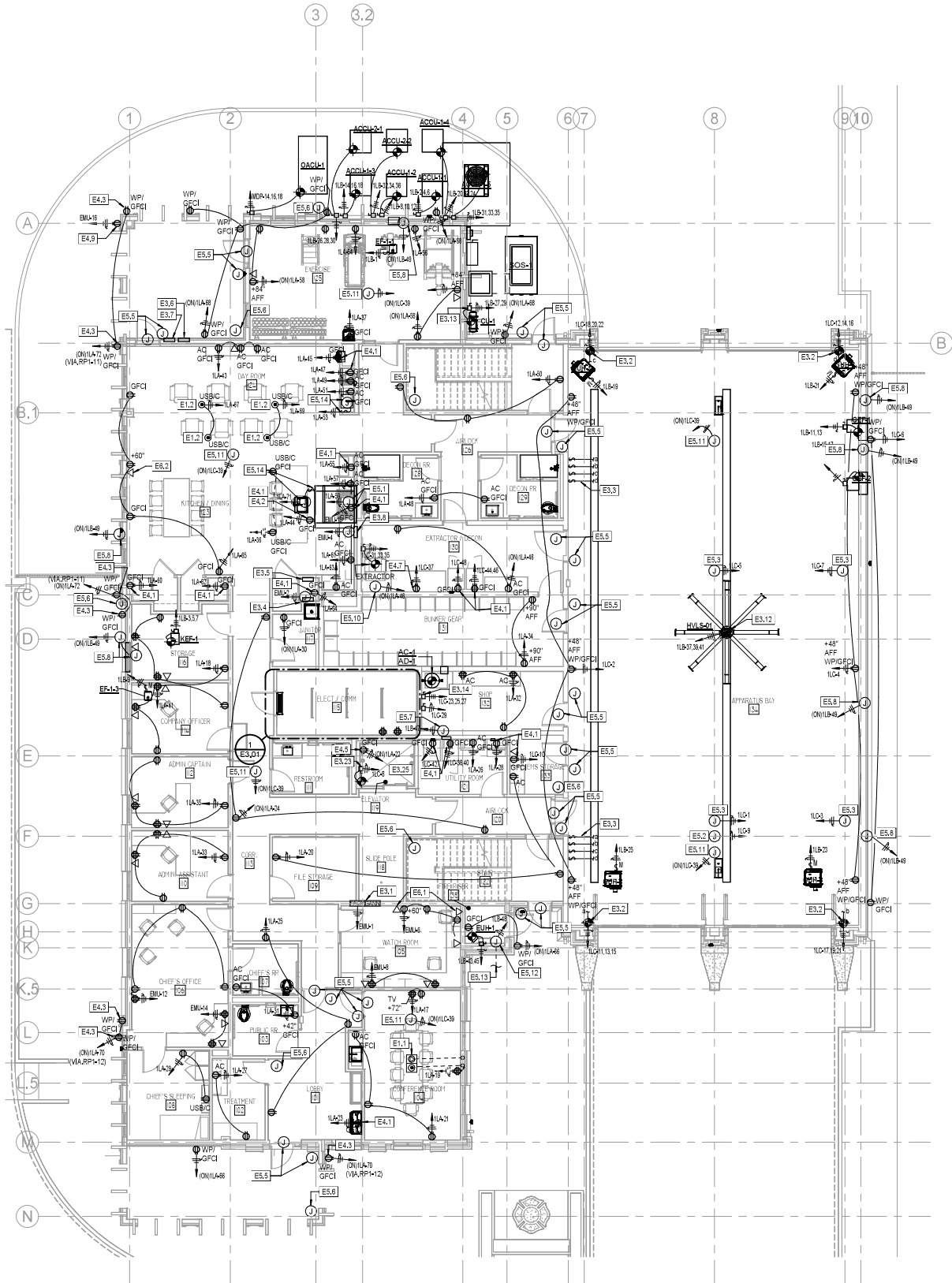
- (1) FLAV2= FLAV2-FC-2EBV-OGC-S-PW-SPL1
- (2) EBV (SIZE OF EACH) GAS CONTROL: RANGE/OVEN, AND EXTERIOR GRILL
- (1) E-SERIES PANEL= E-11-6-2-S-EA
- (1) S-SERIES PANEL= S-1111-2EBV-SIZES-S-F
- (1) BGC= BGC-S

SYSTEM SHALL INCLUDE THE FOLLOWING DEVICES:

- FLAV2 (UTILITY CONTROLLER) MOUNT NEXT TO RANGE ABOVE COUNTER.
- SHALL HAVE LOW VOLTAGE WIRING TO THE FOLLOWING:
- S-SERIES PANEL FOR EBV'S
- E-SERIES PANEL
- OGC
- TWO (2) EBV'S (ELECTRONIC BALL VALVES) MOUNT IN S-SERIES CABINET IN PANTRY
- (1) RANGE OVEN
- (1) EXTERIOR GRILL
- E-SERIES PANEL (WITH CONTACTORS/RELAYS/TIMERS, ETC.) MOUNT IN PANTRY NEAR CEILING.
- SHALL BE POWERED THROUGH A BUILDING 120V ELECTRICAL PANEL, WITH 20A BREAKER.
- BOTH EBV'S SHALL BE POWERED THROUGH THE E-SERIES PANEL.
- RANGE/OVEN IGNITORS SHALL BE POWERED THROUGH THE E-SERIES PANEL.
- OUTDOOR ELECTRIC PELLET GRILL RECEPTACLE SHALL BE POWERED THROUGH THE E-SERIES PANEL.
- SPARE CONTACTOR/RELAY FOR FUTURE APPARATUS BAY EXHAUST FAN CONTROL - IF REQUIRED.
- S-SERIES ENCLOSURE FOR BOTH EBV VALVES. MOUNT IN PANTRY NEAR CEILING.
- OGC - (OUTDOOR GRILL CONTROL) FOR EXTERIOR GAS GRILL. MOUNT ON SOUTH WALL OF RESPONDER PATIO.
- BGC - (BASIC GRILL CONTROL) FOR EXTERIOR ELECTRONIC GRILL. MOUNT ON SOUTH WALL OF RESPONDER PATIO.
NOTE: ALL 120V AND 24V CONDUCTORS, DEVICES, TERMINATIONS, ETC., FOR A COMPLETE AND FULLY FUNCTIONAL AUTOMATIC GAS SHUTOFF SYSTEM FOR RANGE/OVEN, EXTERIOR GAS GRILL, AND ELECTRIC GRILL ARE REQUIRED.

ELECTRICAL CONTRACTOR COORDINATE COMPLETE INSTALLATION OF ISIMET SYSTEM. ELECTRICAL MAN - PURCHASE AND INSTALL ISIMET SYSTEM INCLUDING 120V, AND LV ITEMS.
ONLY EXCEPTION - PLUMBING INSTALL (2) EBV'S, S-SERIES ENCLOSURE, ALL GAS PIPING, ETC. FOR THE GAS SYSTEM.

REFER TO PLUMBING PLANS FOR ADDITIONAL INFORMATION PRIOR TO ROUGH-IN.

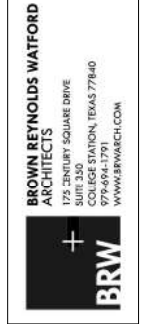


FIRST LEVEL ELECTRICAL POWER PLAN

1
E2.11
1/8" = 1'-0"



04/24/2025



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APRIL 24, 2025
DATE
DRAWN BY
CHECKED BY
BRW PROJECT NUMBER
22313600

KINGSVILLE
FIRE STATION NO. 3
2602 S 6TH ST.
KINGSVILLE, TX 78363

NO.	REVISION	DATE

E2.11

FIRST LEVEL ELECTRICAL
POWER PLAN

ISSUE FOR BID



A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.


$$1/8'' = 1'-0''$$

- ES.11 PROVIDE BACK BOX AND 120V POWER FOR WIRELESS ACCESS POINT CONNECTION. COORDINATE, EXACT INSTALLATION DETAILS AND POWER REQUIREMENTS WITH LOW VOLTAGE CONTACTOR/INSTALLER, ARCHITECT AND OWNER PRIOR TO ROUGH-IN.



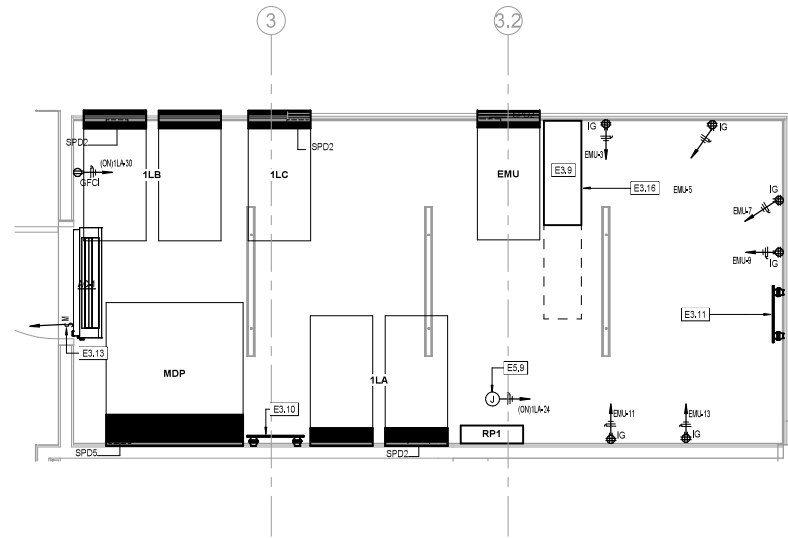
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DRAWN BY		DBR
CHECKED BY		223136.00
BRW PROJECT NUMBER		



NO.	REVISION	DATE

SECOND LEVEL
ELECTRICAL POWER
PLAN

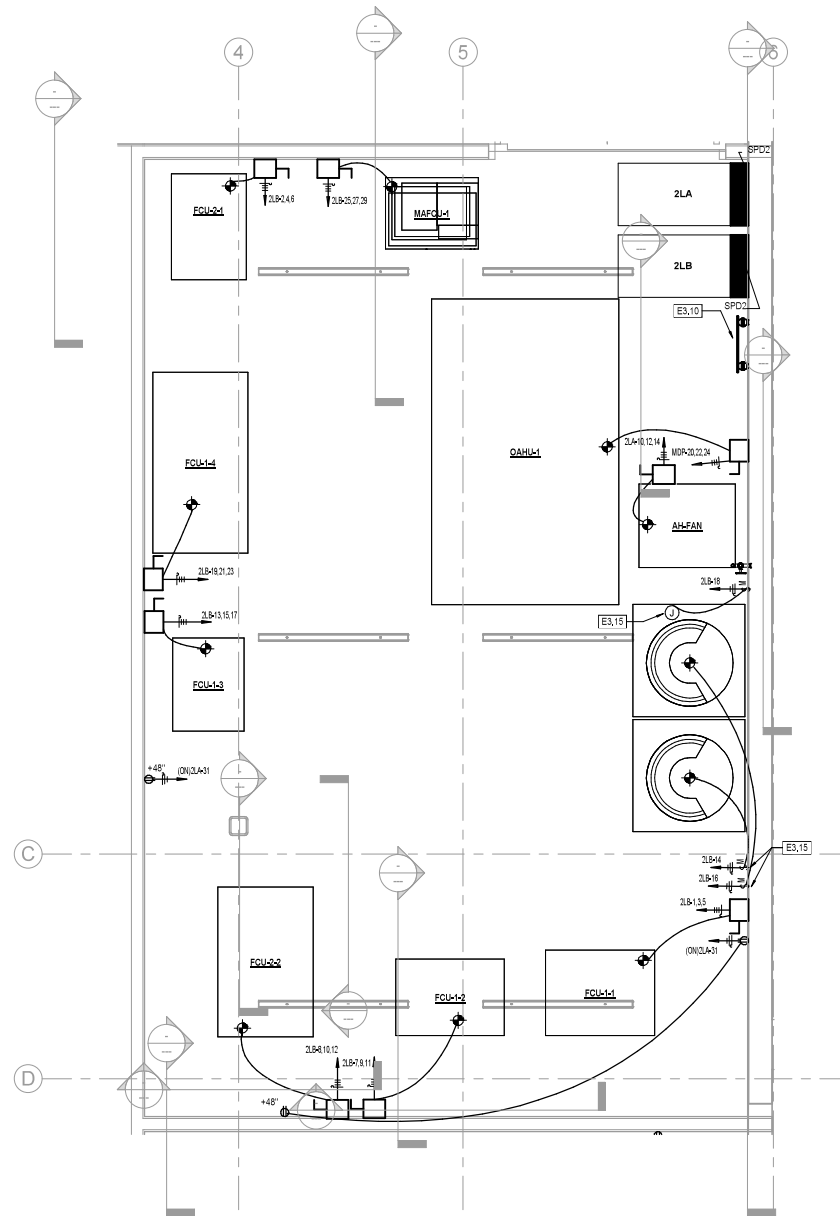
ISSUE FOR BID



ELECTRICAL KEYED NOTES

- E3.9 APPROXIMATE LOCATION OF FLOOR MOUNTED UPS WITH A 15 MINUTE RUNTIME. REFERENCE OHS LINE FOR ADDITIONAL DETAILS. FIELD COORDINATE EXACT LOCATION AND INSTALLATION DETAILS WITH MANUFACTURER'S REQUIREMENTS. ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.
- E3.10 MAIN GROUND BUS RE: 1E6.02 & 7E6.02
- E3.11 TECHNICAL GROUND BUS RE: 1E6.02 & 5E6.02.
- E3.13 PROVIDE SINGLE POINT OF POWER AT CONDENSING UNIT FOR SPLIT DX SYSTEM. INDOOR UNIT SHALL BE POWERED FROM OUTDOOR UNIT. PROVIDE DISCONNECTING MEANS FOR BOTH PIECES OF EQUIPMENT. REFERENCE DUCTLESS SPLIT ELECTRICAL CONNECTION DETAIL.
- E3.15 PROVIDE POWER TO GAS WATER HEATER CONTROLS AND CIRCULATION PUMP WITH ASSOCIATED DISCONNECTS AS REQUIRED. PROVIDE 120V POWER TO TIME SWITCH FOR CONTROL OF CIRCULATION PUMP. COORDINATE EXACT REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- E3.16 CONTRACTOR SHALL PROVIDE DEDICATED GROUND FROM COMMUNICATIONS RACK AND UPS EQUIPMENT IN SPACE BACK TO MAIN GROUNDING BUS.
- E3.9 PROVIDE 120V POWER CONNECTION FOR LIGHTING CONTROL RELAY PANEL. COORDINATE FINAL INSTALLATION AND POWER DETAILS WITH RELAY PANEL MANUFACTURER'S REQUIREMENTS PRIOR TO PLACING IT.

1 FIRST LEVEL ENLARGED ELECTRICAL POWER PLAN
E3.01 1/2" = 1'-0"



2 SECOND LEVEL ELECTRICAL POWER PLAN - Callout 1
E3.01 1/2" = 1'-0"



04/24/2025



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E3.01

ELECTRICAL ENLARGED PLANS

ISSUE FOR BID



04/24/2025

BROWN REYNOLDS WATFORD ARCHITECTS
175 CENTURY SQUARE DRIVE
SUITE 330
DALLAS, TEXAS 75201
972.994.1724
WWW.BRWARCH.COM

713.542.0885
https://www.dbrmc.com
TYPED Registration No. 7254
EXP. DATE 08/31/2025
DBR DESIGN SOLUTIONS

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DATE
APRIL 24, 2025

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223136.00

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E3.11

FIRST LEVEL ALERTING
SYSTEM PLAN

GENERAL ELECTRICAL NOTE:

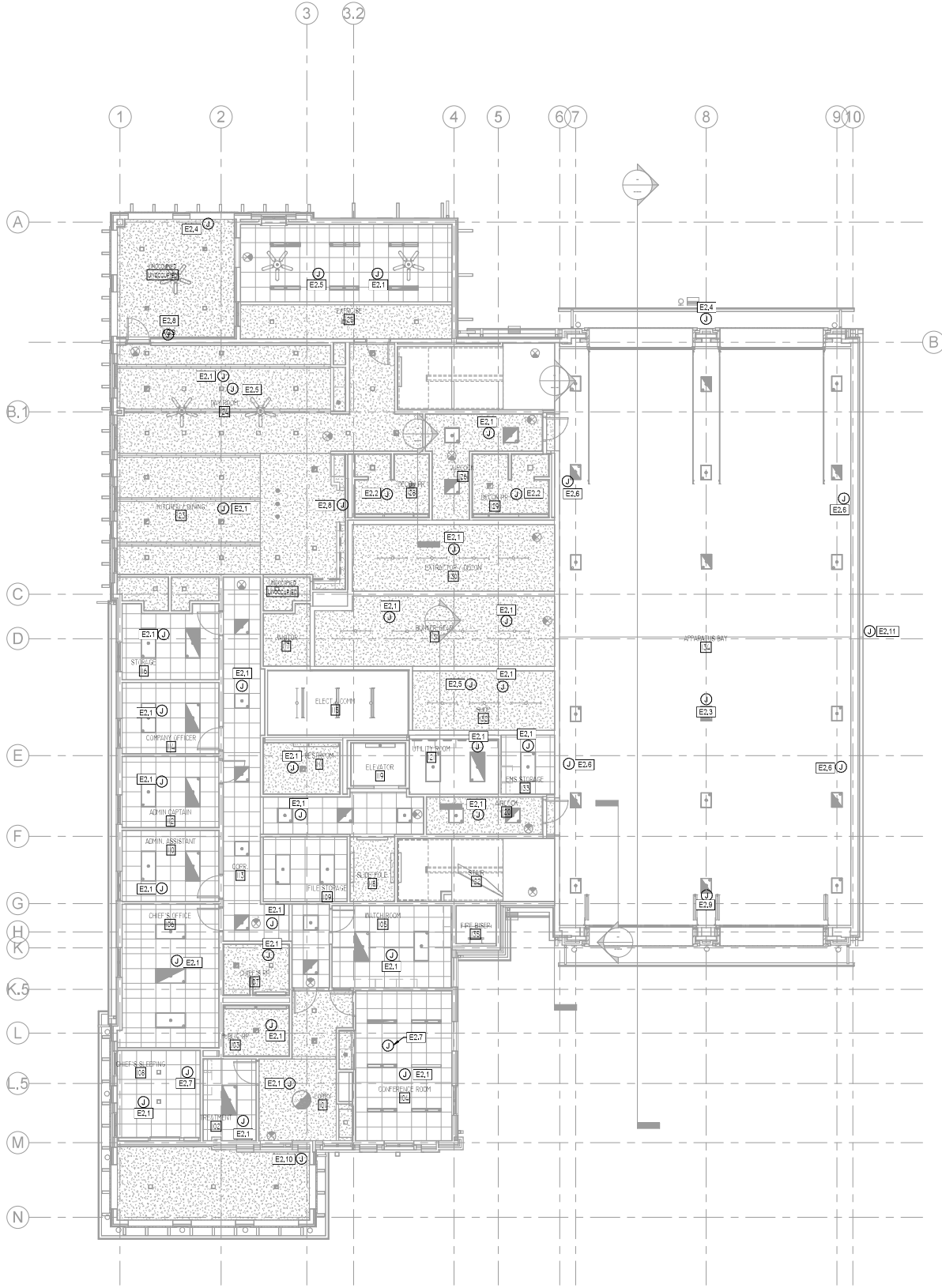
COORDINATE SIZE OF BACK BOXES WITH ZETRON

ZETRON CONTACT:

DAN MCKEE
DAN.MCKEE@ZETRON.COM
(855)456-5344

ELECTRICAL KEYED NOTES

- E2.1 CONTRACTOR SHALL PROVIDE 1" CONDUIT AND PULL STRING TO ABOVE ACCESSIBLE CEILING AND BACK BOX FOR ALERTING SYSTEM COMMON SPEAKER. COORDINATE EXACT LOCATION WITH ALERTING SYSTEM CONTRACTOR. ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E2.2 CONTRACTOR SHALL PROVIDE 1" CONDUIT AND PULL STRING TO ABOVE ACCESSIBLE CEILING AND BACK BOX FOR ALERTING SYSTEM MOISTURE RESISTANT SPEAKER. COORDINATE EXACT LOCATION WITH ALERTING SYSTEM CONTRACTOR. ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E2.3 CONTRACTOR SHALL PROVIDE 1" CONDUIT AND PULL STRING TO BACK BOX FOR ALERTING SYSTEM OMNI BAY SPEAKER. COORDINATE EXACT LOCATION WITH ALERTING SYSTEM CONTRACTOR. ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E2.4 CONTRACTOR SHALL PROVIDE 1" CONDUIT AND PULL STRING TO ABOVE ACCESSIBLE CEILING AND BACK BOX FOR ALERTING SYSTEM WEATHERPROOF EXTERIOR SPEAKER. COORDINATE EXACT LOCATION WITH ALERTING SYSTEM CONTRACTOR. ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E2.5 CONTRACTOR SHALL PROVIDE 1" CONDUIT AND PULL STRING TO ABOVE ACCESSIBLE CEILING AND BACK BOX FOR ALERTING SYSTEM STROBE LIGHT. COORDINATE EXACT LOCATION WITH ALERTING SYSTEM CONTRACTOR. ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E2.6 CONTRACTOR SHALL PROVIDE 1" CONDUIT AND PULL STRING TO BACK BOX FOR ALERTING SYSTEM WALL MOUNT STROBE LIGHT. COORDINATE EXACT LOCATION WITH ALERTING SYSTEM CONTRACTOR. ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E2.7 CONTRACTOR SHALL PROVIDE 1" CONDUIT AND PULL STRING TO ABOVE ACCESSIBLE CEILING AND BACK BOX FOR ALERTING SYSTEM RED LED. COORDINATE EXACT LOCATION WITH ALERTING SYSTEM CONTRACTOR. ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E2.8 CONTRACTOR SHALL PROVIDE 1" CONDUIT AND PULL STRING TO ABOVE ACCESSIBLE CEILING AND BACK BOX FOR ALERTING SYSTEM AUTOMATIC GAS SHUT OFF. COORDINATE EXACT LOCATION WITH ALERTING SYSTEM CONTRACTOR. ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E2.9 CONTRACTOR SHALL PROVIDE 1" CONDUIT AND PULL STRING TO BACK BOX FOR ALERTING SYSTEM TURNOUT TIMERS. COORDINATE EXACT LOCATION WITH ALERTING SYSTEM CONTRACTOR. ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E2.10 CONTRACTOR SHALL PROVIDE 1" CONDUIT AND PULL STRING TO ABOVE ACCESSIBLE CEILING AND BACK BOX FOR ALERTING SYSTEM DOORBELL OR EMERGENCY PHONE. COORDINATE EXACT LOCATION WITH ALERTING SYSTEM CONTRACTOR. ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E2.11 CONTRACTOR SHALL PROVIDE 1" CONDUIT AND PULL STRING TO BACK BOX FOR ALERTING SYSTEM ANTENNA CONTROLLER. COORDINATE EXACT LOCATION WITH ALERTING SYSTEM CONTRACTOR. ARCHITECT AND OWNER PRIOR TO ROUGH-IN.



PLAN
NORTH

TRUE
NORTH

1
E3.11

FIRST LEVEL ALERTING SYSTEM PLAN

1/8" = 1'-0"

ISSUE FOR BID

NO.	REVISION	DATE

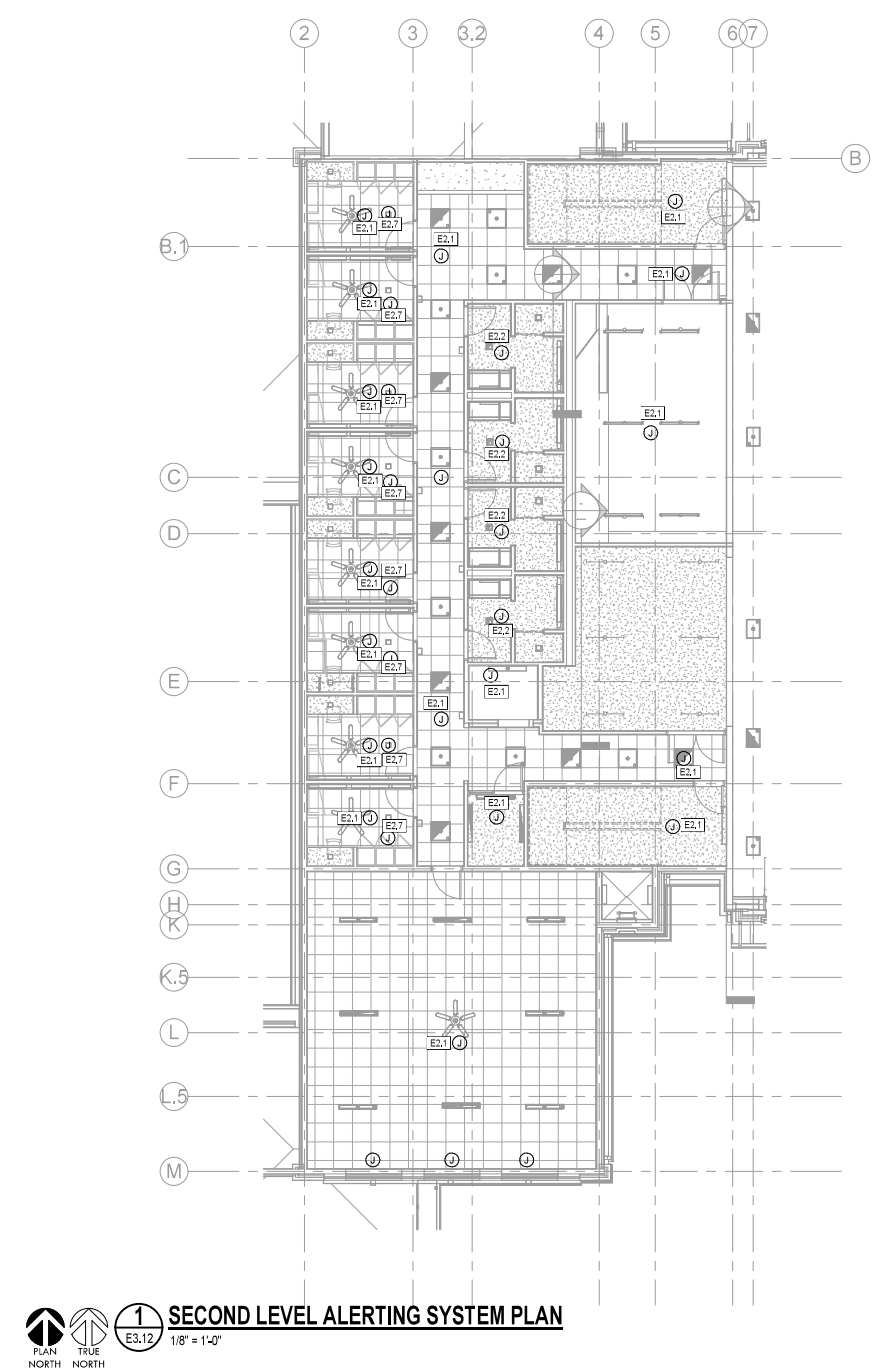
GENERAL ELECTRICAL NOTE:

COORDINATE SIZE OF BACK BOXES WITH ZETRON

ZETRON CONTACT:
DAI MOORE
DAIMOORE@ZETRON.COM
(836) 454-3354

ELECTRICAL KEYED NOTES

- E2.1 CONTRACTOR SHALL PROVIDE 1" CONDUIT AND PULL STRING TO ABOVE ACCESSIBLE CEILING AND BACK BOX FOR ALERTING SYSTEM COMMON SPEAKER. COORDINATE EXACT LOCATION WITH ALERTING SYSTEM CONTRACTOR, ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E2.2 CONTRACTOR SHALL PROVIDE 1" CONDUIT AND PULL STRING TO ABOVE ACCESSIBLE CEILING AND BACK BOX FOR ALERTING SYSTEM MOISTURE RESISTANT SPEAKER. COORDINATE EXACT LOCATION WITH ALERTING SYSTEM CONTRACTOR, ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E2.7 CONTRACTOR SHALL PROVIDE 1" CONDUIT AND PULL STRING TO ABOVE ACCESSIBLE CEILING AND BACK BOX FOR ALERTING SYSTEM RED LED. COORDINATE EXACT LOCATION WITH ALERTING SYSTEM CONTRACTOR, ARCHITECT AND OWNER PRIOR TO ROUGH-IN.



1 SECOND LEVEL ALERTING SYSTEM PLAN
E3.12
1/8" = 1'-0"



DBR
713.914.0888 p
<https://www.dbrinc.com>
TBE Firm Registration No. 2234
DBR Project # 240171

BM	ID/RMS/DJ/LTN	-
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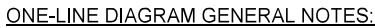


**KINGSVILLE
FIRE STATION NO. 3**

**2602 S 6TH ST.
KINGSVILLE, TX 78363**

NO.	REVISION	DATE

ELECTRICAL ONE-LINE DIAGRAM



ELECTRICAL KEYED NOTES:

1. CONTRACTOR SHALL INSTALL PRIMARY CONDUIT PER AEP POWER COMPANY STANDARDS, CONDUIT TRENCHING AND PULLSTRIPPING BY CONTRACTOR, CONDUCTORS OF THE PRIMARY BY ELEC. CONTRACTOR, CONDUCTORS OF THE SECONDARY WILL BE BY THE POWER COMPANY, LUGS FOR THE SECONDARY WILL BE BY THE CONTRACTOR, CONTRACTOR SHALL FIELD COORDINATE WITH AEP UTILITY PRIOR TO STARTING ANY WORK.
2. SECONDARY CONDUIT PER SPECIFICATIONS, TERMINATION OF THE SECONDARY TO THE SERVICE TRANSFORMER BY THE CONTRACTOR, LUGS FOR THE SECONDARY BY THE CONTRACTOR AT THE SERVICE TRANSFORMER.
3. PROVIDE METER CAN AND CURRENT TRANSFORMERS ENCLOSURE, AND POTENTIAL TRANSFORMER ENCLOSURE AS REQUIRED TO PROVIDE FIELD SERVICE ENTRANCE PER AEP STANDARDS, METER CAN, CURRENT TRANSFORMERS ENCLOSURE, AND POTENTIAL TRANSFORMER INSTALLED BY CONTRACTOR.
4. PROVIDE 30A/20HP/15KVA DISCONNECT SWITCH FOR GENERATOR'S 200V JACKET HEATER, FIELD COORDINATE EXACT LOCATION AND ADDITIONAL MANUFACTURER'S REQUIREMENTS WITH GENERATOR INSTALLER PRIOR TO ROUGH-IN.
5. PROVIDE 120V JUNCTION BOX CONNECTION FOR ANTI-CONDENSATION HEATER, FIELD COORDINATE EXACT LOCATION AND ADDITIONAL MANUFACTURER'S REQUIREMENTS WITH GENERATOR INSTALLER PRIOR TO ROUGH-IN.
6. PROVIDE 120V JUNCTION BOX CONNECTION FOR BATTERY CHARGER AND GENERATOR CONTROLS, FIELD COORDINATE EXACT LOCATION AND ADDITIONAL MANUFACTURER'S REQUIREMENTS WITH GENERATOR INSTALLER PRIOR TO ROUGH-IN.
7. PROVIDE REMOTE SWITCH (R/S) PER SPECIFICATIONS, REMOTE SWITCH SHALL HAVE NEMA 3P ENCLOSURE, LOCATE SWITCH WITHIN 10' FEET OF GENERATOR, SWITCH MUST BE WITHIN 30' OF THE GENERATOR, COORDINATE EXACT LOCATION WITH STATUS PANEL TO BE INSTALLED.
8. PROVIDE 48V/1A FOR PROPOSED LOCATION OF REMOTE GENERATOR STATUS PANEL, (48V/1A SHALL BE PROVIDED ADJACENT TO FIRE ALARM PANEL, COORDINATE FINAL LOCATION OF GSP WITH OVERARCHITECT PRIOR TO ROUGH-IN).
9. PROVIDE WATT-STOPPER LAMP LIGHTING LATCH PANEL, WITH OUTDOOR PHOTO CELL, REFER TO SHEET 55.01 FOR ADDITIONAL INFORMATION.
10. PROVIDE NEW 120V/1P POWERWAVE 3555 15KVA/120/208V/1P OVERVOLTAGE PROOF POWER SUPPLY WITH A 15 MINUTE RUNTIME, UPS SHALL HAVE UNINTERRUPTIBLE 3 PHASE, 4 WIRE INPUT AND OUTPUT, UPS SHALL HAVE MAINTENANCE BYPASS, CONFIRM ALL INPUT/OUTPUT BREAKER SIZES REQUIRED FOR UPS WITH MANUFACTURER'S TECHNICAL SUPPORT TO ORDERING, REFERENCE SPECIFICATIONS 23.33 FOR ADDITIONAL DETAILS ON UPS.
11. PROVIDE 200A COPPER BUSBARM MODULE, COORDINATE FUSE SIZE WITH ELEVATOR REQUIREMENTS AND ELEVATOR INSTALLER, ELEVATOR BUSBARM MODULE SHALL BE PROVIDED WITH SHUNT TRIP.
12. PROVIDE 200A/30HP DISCONNECT AT THE TOP OF THE ELEVATOR SHAFT, ELECTRICAL CONTROLLER SHALL PROVIDE AN AUXILIARY CONTACTOR, THE AUXILIARY LAMP SHALL BE COORDINATED TO EXIST WITH THE ELEVATOR STATUS PANEL AND SHALL SIGNAL THE ELEVATOR CONTROLLER THE DISCONNECT IS SWITCHED TO THE OFF POSITION.
13. PROVIDE CONDUIT AND WIRE ROUTED FROM THE AUXILIARY CONTACTOR'S IN THE AUTOMATIC TRIP SWITCH TO THE ELEVATOR CONTROLLER WHEN IT IS CONNECTED TO THE EMERGENCY POWER, FIELD COORDINATE WITH ELEVATOR MANUFACTURER/INSTALLER, ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.
14. PROVIDE 48V/1A LOCATION AT BUSBARM UPSTREAM OF BUSBARM MODULE TO SCHEDULE AVAILABLE FAULT CURRENT AT BUSBARM MODULE, REFERENCE TRISUMMOI LOWER ON SHEET 54.01.
15. PROVIDE 1" CONDUIT WITH PULL STRING FROM DESIGNATED LOCATION FROM GENERATOR TO UPS.

GENERAL ELECTRICAL NOTE:

COORDINATE WITH AEP UTILITY.

AEP CONTACT:

RUBEN H NUNEZ JR.
RHNUNEZ@AEP.COM
(361)242-3610

FEEDER SCHEDULE COPPER ONLY			
RATING	SETS	CONDUCTOR SIZE	CONDUIT
30A	1	#10, 1#10 G.	3/4"
40A	1	#8, 1#10 G.	"
50A	1	#8, 1#10 G.	1"
60A	1	#8, 1#10 G.	1 1/2"
70A	1	#8, 1#8 G.	1 1/4"
80A	1	#8, 1#8 G.	1 1/4"
90A	1	#8, 1#8 G.	1 1/4"
100A	1	#8, 1#8 G.	1 1/4"
125A	1	#1, 1#8 G.	1 1/2"
150A	1	#1/0, 1#8 G.	1 1/2"
175A	1	#2/0, 1#8 G.	"
200A	1	#3/0, 1#8 G.	2"
225A	1	#4/0, 1#8 G.	2 1/2"
250A	1	#2/0, 1#4 G.	2 1/2"
300A	1	#3/0, 1#4 G.	3"
350A	1	#500, 1#3 G.	3 1/2"
400A	1	#500, 1#3 G.	4"
450A	2	#4M, 1#2 G.	2 1/2"
500A	2	#2/0, 1#2 G.	2 1/2"
600A	2	#3/0, 1#1 G.	3"
700A	2	#500, 1#1 G.	4"
800A	2	#1/0, 1#1 G.	4"
1000A	3	#500, 1#0 G.	4"
1200A	4	#3/0, 1#0 G.	3"
1800A	4	#500, 1#4 G.	4"
	5	#500, 1#4 G.	4"
	5	#500, 1#250 G.	4"
2000A	6	#500, 1#250 G.	4"
	6	#500, 1#250 G.	4"
2500A	8	#500, 1#350 G.	4"
	7	#500, 1#350 G.	4"
3000A	8	#500, 1#400 G.	4"
3500A	9	#500, 1#500 G.	4"
	10	#500, 1#500 G.	4"
4000A	10	#500, 1#500 G.	4"
	11	#500, 1#500 G.	4"
5000A	12	#4/0, 1#750 G.	4"
	14	#500, 1#750 G.	4"

1. ELECTRICAL CONTRACTOR SHALL PROVIDE THE NUMBER OF LUGS AND PROPER LUG SIZES TO ACCEPT CONDUCTOR SIZES SHOWN.
2. GROUND NOT REQUIRED AT SERVICE LATERAL.

SURGE PROTECTION DEVICE (SPD) SCHEDULE							
MARK	MANUFACTURER	MODEL	VOLTAGE	PHASE	SURGE RATING PER MODE	BREAKER SIZE	TIER/GUIDE CABLE SIZE
SPD2	SOUTHERN TIER TECHNOLOGIES	745120V100AAJ2S	208/120V	3	100/200KA	30A/3P	5 #6E
SPD3	SOUTHERN TIER TECHNOLOGIES	745120V125ALM1C	208/120V	3	125/250KA	60A/3P	3 #1.1/2" C.

TRANSFORMER SCHEDULE						
MARK	KVA	PRI. VOLTAGE	SECONDARY VOLTAGE	MOUNTING	ENCLOSURE	REMARKS
T1EL	45.0	208V, 3PH.	208V/120V, 3PH., 4W	PAD	Type 3R	

*ALL T45 SERIES SPD ENCLOSURES INSTALLED IN FOOD SERVICE AREAS (IE, KITCHENS, SNACK BARS, FOOD LABS, CULINARY ARTS ROOMS AND LIFE SKILLS ROOMS) SHALL BE RECESSED IN THE WALL. PROVIDE RECESSED WALL KIT #RKSS.

ONE-LINE DIAGRAM GENERAL NOTES:

- A. MANUFACTURER OF ELECTRICAL GEAR SHALL PROVIDE A COORDINATION STUDY FOR THE ENTIRE ELECTRICAL SYSTEM IN ORDER TO SET BREAKERS, REFER TO SPECIFICATIONS. MANUFACTURER SHALL PROVIDE AN ARC FLASH & SHORT CIRCUIT STUDY FOR THE ENTIRE ELECTRICAL SYSTEM IN ORDER TO SET INTERRUPTING RATINGS OF ALL CIRCUIT BREAKERS. DISTRIBUTION PANELBOARDS, PANELBOARDS, ETC. A SERIES RATED SYSTEM SHALL BE USED, SUMMIT INTERRUPTING RATING FOR ALL ELECTRICAL GEAR IN SUBMITTALS. CONTRACTOR SHALL SUBMIT THE COORDINATION STUDY TO THE CITY ENGINEER. THE MANUFACTURER'S DATA LISTING THE SERIES RATING OF THE EQUIPMENT, THIS SWITCHBOARD AND ALL NEW EQUIPMENT CONNECTED DOWNSTREAM SHALL BEAR LABELS INDICATING "SERIES RATED EQUIPMENT" ON THEIR EXTERIOR AS SPECIFIED IN THE SPECIFICATIONS. CONTRACTOR SHALL INSTRUCT THE MANUFACTURER TO MARK THE EQUIPMENT WITH THE SPECIFICATIONS AND LABELING INDICATING THE INTERRUPTING RATING CHARACTERISTICS OF EQUIPMENT BEING SUPPLIED. CONTRACTOR SHALL SUBMIT STUDIES FOR REVIEW BEFORE SUBMITTING ELECTRICAL DISTRIBUTION EQUIPMENT FOR REVIEW, REFER TO SPECIFICATION SECTION 25.07.3.
- B. METING EQUIPMENT ENCLOSURE PROVIDED BY POWER CO., INSTALLED BY ELECTRICAL CONTRACTOR PER POWER COMPANY SPECIFICATIONS, INSTALLED BY POWER COMPANY.
- C. ALL CONDUCTORS SHALL BE COPPER.
- D. CONTRACTOR SHALL INSTALL FEEDERS BASED ON THE OVERCURRENT PROTECTING UNLESS OTHERWISE NOTED. CONTRACTOR SHALL REFER TO THE FEEDER SCHEDULE TO OBTAIN AND INSTALL THE FEEDERS REQUIRED.
- E. SERVICE EQUIPMENT SHALL BE PERMANENTLY AND LOGICALLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FLUX CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2" X 3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND, THIS LABEL, SHALL ALSO INCLUDE THE DATE OF THE CALCULATION.
- F. PRIOR TO INSTALLATION OF UNDERGROUND FEEDERS THE ELECTRICAL CONTRACTOR SHALL SUBMIT AN UNDERGROUND ROUTING PLAN TO THE ENGINEER OF RECORD, INDICATING THE LOCATION OF THE FEEDERS, THE TYPE OF FEEDER, THE FEEDER SIZE, THE FEEDER SIZE AND QUANTITY OF CONDUIT, ALL ELECTRICAL PANELS AND EQUIPMENT SHALL BE SHOWN ON THIS PLAN FOR REFERENCE OF CONDUIT TERMINATION.
- G. DIVISION 26 INSTALLER SHALL COORDINATE NEW ELECTRICAL SERVICE WITH UTILITY COMPANY, PROVIDE CONDUIT, TRANSFORMER PAD, AND TAP BOX WHERE REQUIRED, ALL NEW UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY SPECIFICATIONS. PANELBOARDS SHALL BE AT THE SAME PLANE AND LOW VOLTAGE UNDERGROUND CONDUIT INSTALLATIONS SHALL BE AT THE SAME PLANE AND SAME DEPTH AS OTHER UNDERGROUND ELECTRICAL CONDUITS.

Load Analysis - City of Kingsville FS.3					Date: 1/16/2025	
208 / 120 / 3 -PHASE, 4 -WIRE					NEC	KVA
DESCRIPTION						
LIGHTING						
INTERIOR = 7,353 VA X 125%					220.12	9.2
EXTERIOR = 1,081 VA X 125%						1.3
POWER						
RECEPTACLES = 44,490 VA					220.44	
First 10,200 V.A. X 100%						10.0
Remaining 34,290 V.A. X 50%						17.2
QTY: 4						
OVERHEAD DOORS (1HP)= 1,500 VA						6.0
MISCELLANEOUS= 56,580 VA						57.0
ITCHES= 9,700 VA X 65%						6.3
LAUNDRY = 896 VA						0.9
HVAC						
COOLING 66,802 VA X 100%					220.60	66.8
HEATING 102,398 VA X 0%					220.60	0.0
FANS 11,467 VA X 100%					220.60	11.5
MOTOR LOADS						
LRG MOTOR 28,139 VA X 125%					220.50	35.2
PLUMBING						
WATER HEATER = 1,285 VA						1.3
CIRCULATING PUMP = 170 VA						0.2
AIR COMPRESSOR = 9,114 @7.5HP						9.1
EXTRACTOR 6,304 VA						6.3
GEAR DRYER 9,000 VA						9.0
TOTAL = 247.2						
TOTAL PUMPS 886.1						
SERVICE SIDE 800.0						
SPARE AMPCACITY 113.8						
SQUARE FOOTAGE = 13,829						

GENERAL ELECTRICAL NOTE:

COORDINATE WITH AEP UTILITY.

AEP CONTACT:

RUBEN H NUNEZ JR.
RHNUNEZ@AEP.COM
(361)242-3610

NOTES:

1. LIGHTING FIXTURE CATALOG NUMBERS AND DESCRIPTIONS ARE SCHEDULED FOR ESTABLISHING QUALITY, APPEARANCE AND PERFORMANCE OF THE FIXTURES AS REQUIRED BY THE DESIGN. EXACT CATALOG NUMBERS DESCRIBING MOUNTING CONDITIONS, FINISHES AND REQUIREMENTS RELATED TO TRIMS AND LENS FOR ALL FIXTURES SHALL BE CONFIRMED BY THE CONTRACTOR WITH THE ROOM FINISH SCHEDULE AND REFLECTED CEILING PLANS INCLUDING GRID TYPES, ON THE ARCHITECTURAL DRAWINGS PRIOR TO BIDDING. FIXTURES SHALL BE SUBMITTED ACCORDING TO THE CONDITIONS INDICATED ON THE ARCHITECTURAL PLANS. REFER TO THE WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

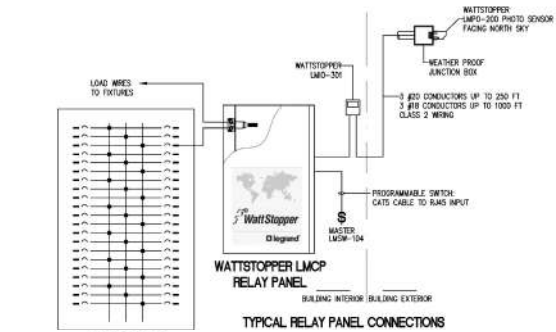
2. THE NEW LIGHT FIXTURES SCHEDULED ARE THE BASIS OF DESIGN. NO SUBSTITUTION ALLOWED.

LIGHTING CONTROLS DEVICE SCHEDULE			
TYPE	DESCRIPTION	COMMENTS	
\$ ³ \$ ⁴ \$ ^K	LINE VOLTAGE SWITCH.	'3' INDICATES THREE WAY SWITCHING. '4' INDICATES FOUR WAY SWITCHING. 'K' INDICATES SWITCH SHALL BE KEYED SWITCH.	
\$ ^{DR}	LINE VOLTAGE DIMMER SWITCH	DIMMER FOR USE IN DWELLING UNIT. COORDINATE DIMMING TYPE WITH FINAL FIXTURE AND LAMP SELECTION TO ENSURE COMPATIBILITY.	
\$ ^F	MULTI-SPEED FAN CONTROLLER WITH LINE VOLTAGE SWITCH.	PROVIDE WITH A 4-SPEED RECESSED WALL MOUNTED CONTROL DEVICE.	
\$ ^T	LINE VOLTAGE TIMER SWITCH WITH DIGITAL TIMER.	RATED FOR 120/277VAC. PROVIDE WITH AUDIBLE & VISUAL ALERTS. USER PROGRAMMABLE FOR 5MIN-12HR TIME-OUT SETTINGS.	
\$ ^{OC1}	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR	SENSOR SHALL BE SET TO VACANCY MODE	
\$ ^{OC2}	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DUAL RELAYS.	SENSOR SHALL BE SET TO VACANCY MODE. ONE RELAY SHALL SERVE 120 VOLT LIGHTING IN AREA INDICATED, AND ONE RELAY SHALL SERVE 277 VOLT LIGHTING.	
\$ ^{LV} \$ ^{LVK}	LOW VOLTAGE MANUAL CONTROL.	CONNECT TO POWER PACK OR ROOM CONTROLLER IF OCCUPANCY SENSORS ARE INDICATED ON PLAN. PROVIDE MULTI-BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS. 'K' INDICATES SWITCH SHALL BE KEYED SWITCH.	
\$ ^{DR} \$ ^{DRK}	LOW VOLTAGE MANUAL CONTROL.	CONNECT TO RELAY PANEL OR TIME CLOCK FOR TIME OF DAY OVERRIDE AS NOTED ON PLANS. PROVIDE MULTI-BUTTON SWITCH AS NOTED ON PLANS. 'K' INDICATES SWITCH SHALL BE KEYED SWITCH.	
\$ ^D	LOW VOLTAGE SWITCH WITH 0-10V DIMMER	PROVIDE MULTI-BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS, PROVIDE POWER PACKS OR ROOM CONTROLLERS AS REQUIRED.	
OC1	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO VACANCY MODE. PROVIDE POWER PACKS AS NEEDED.	
OC2	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO OCCUPANCY MODE. PROVIDE POWER PACKS AS REQUIRED.	
OC3	WET LOCATION PIR OCCUPANCY SENSOR.	SET TO VACANY MODE. PROMDE POWER PACKS AS NEEDED.	

- NOTES:
1. WATTSTOPPER IS THE BASIS OF DESIGN.
 2. THE LIGHTING CONTROLS SCHEDULED ARE THE BASIS OF DESIGN. IT IS NOT INTENDED TO LIMIT COMPETITION FROM EQUAL MANUFACTURERS. ALL BIDDERS SHALL SUBMIT THEIR PROPOSED LIGHTING CONTROLS IN SUBMITTAL FORM A M/J/04/01 OF 10 BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW. APPROVED LIGHTING CONTROL SYSTEMS WILL BE ISSUED IN AN ADDENDUM.
 3. BASIS OF DESIGN SHALL BE A HARDWIRED TYPE SYSTEM, UNLESS NOTED OTHERWISE.

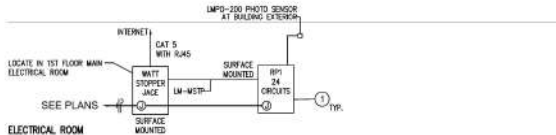
RELAY PANEL - RP1			
RELAY NO.	AREA SERVED	CIRCUIT NO.	NOTES
RP1-1	LIGHT TOWER	SEE PLANS	1
RP1-2	POLE LIGHTS	SEE PLANS	1
RP1-3	POLE LIGHTS	SEE PLANS	1
RP1-4	EXTERIOR WALLPACKS	SEE PLANS	1
RP1-5	FLAG POLE	SEE PLANS	1
RP1-6	CORRIDOR LIGHTS	SEE PLANS	2
RP1-7	CORRIDOR LIGHTS	SEE PLANS	2
RP1-8	BAY LIGHTS	SEE PLANS	3
RP1-9	BAY LIGHTS	SEE PLANS	3
RP1-10	EXTERIOR LIGHTS	SEE PLANS	1
RP1-11	EXTERIOR RECEPTACLE	SEE PLANS	1
RP1-12	EXTERIOR RECEPTACLE	SEE PLANS	1
RP1-13	EXTERIOR RECEPTACLE	SEE PLANS	1
RP1-14	SPARE	SEE PLANS	
RP1-15	SPARE	SEE PLANS	
RP1-16	SPARE	SEE PLANS	
RP1-17	SPARE	SEE PLANS	
RP1-18	SPARE	SEE PLANS	

- NOTES
1. EXTERIOR LIGHTING SHALL BE PHOTOCELL CONTROLLED WITH ON/OFF SCHEDULING AS REQUIRED BY THE 2018 IECC.
 2. LIGHTING IN CORRIDOR SHALL BE INTERLOCKED SUCH THAT WHEN STEP LIGHTING IS TURNED ON, THE 2'X2' CORRIDOR LIGHTING IS TURNED OFF AND VICE VERSA. RELAY SHALL BE CONTROLLED WITH ON/OFF SCHEDULING AS SET BY THE OWNER AND SHALL HAVE A FIVE MINUTE OVERRIDE WITH OVERRIDE SWITCH IN CORRIDOR. CORFORM ELEC PROGRAMMING REQUIREMENTS WITH OWNER.
 3. APPARATUS VAP LIGHTING CONTROLLED BY ON/OFF SCHEDULING, OVERRIDE SWITCH IN BAY AND ALERTING SYSTEM SHALL OVERRIDE LIGHTS ON UNTIL NEXT SCHEDULED OFF PERIOD. CORFORM ELEC PROGRAMMING REQUIREMENTS WITH OWNER. CONTRACTOR SHALL PROVIDE REQUIRED RELAY/ACCESSORIES TO ALLOW ALERTING SYSTEM TO OVERRIDE RELAY.



RELAY PANEL NOTES:

1. RELAY PANEL SHALL BE LOCATED ADJACENT TO THE POWER PANEL THE LIGHTING RELAY PANEL IS SERVING. REFER TO POWER PLANS FOR LOCATION AND FOR ADDITIONAL INFORMATION (TYPICAL)
2. ALL SCHEDULED LIGHTING SHALL BE COORDINATE WITH THE OWNER.



2018 IECC STANDARD SEQUENCE OF OPERATIONS	AUTO ON	MANUAL ON (VACANCY)	AUTO OFF (30MIN MAX)	PARTIAL OFF AT NORMAL HOURS	AUTO OFF AFTER HOURS (30MIN MAX)	TIME ON	TIME OFF	ASTRONOMIC OR PHOTOCELL ON/OFF	AUTO STEP CONTROL WITH OFF	AUTO CONTINUOUS DIM WITH OFF	MANUAL BI-LEVEL REDUCTION CONTROL	MANUAL CONTINUOUS DIM CONTROL	MANUAL ON/OFF SWITCH	MANUAL DIMMER SWITCH	DISPLAY, ACCENT, TASK CONTROL
	ROOM TYPE	OCCUPANCY SENSOR					TIME SWITCH		DAYLIGHT CTL	LT REDUCT	MANUAL CONTROL			SEQUENCE OF OPERATION	
	Spaces (≤ 300 sq ft)	50%		20 MIN					D	•	D	•	D		Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch,
	"Enclosed Offices"	50%		20 MIN					D	•	D	•	D		Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch,
	"Open Plan Office Areas ≤600SqFt zones"	50%		20 MIN					D	•	D	•	D	•	Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch,
	Class/Lecture/Training Room	50%		20 MIN					D	•	D	•	D	•	Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch,
	Conference/Meeting Room	50%		20 MIN					D	•	D	•	D	•	Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch,
	Copy/Print Room	50%		20 MIN					D	•	D	•	D		Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch,
	Restroom	100%		20 MIN									•		Auto On 100%; Occupancy sensor Auto Off; Manual control,
	Lunch/Break Rooms/Lounges	50%		20 MIN					D	•	D	•	D	•	Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch,
Corridor	100%		20 MIN						D		D	•	D	•	Auto On 100%; Occupancy sensor Auto Off; Manual control device; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch,
Stairwell	100%		20 MIN						D		D	•	D		Auto On 100%; Occupancy sensor Auto Off; Manual control; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch,
Storage Room	50%		20 MIN						D	•	D	•	D		Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch,
Cafeteria / Gym		•					11PM		D	•	D	•	D		Manual On; Time Off with closing hours. After hours 2 hour override from manual control device; Where ≥150W in daylight area, continuous dimming daylighting control with dimmer switch,
Multipurpose Rooms	50%		20 MIN						D	•	D	•	D		Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch,
Locker Room	50%		20 MIN						D	•	D	•	D		Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch,
Lab	50%		20 MIN						D	•	D	•	D		Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off switches; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch,
"Warehouse Aisle (Racks)"	50%			50% 20 MIN	20 MIN	OPEN	CLOSE		D	•	D	•			Time On 50%; Occupancy sensor Partial Off ≥50%; Manual control device. After hour occupancy sensor Auto On/Off; Where ≥150W in daylight area, continuous dimming daylighting control.
"Warehouse Open Area"				50% 20 MIN	20 MIN	OPEN	CLOSE		D	•	D	•	•		Time On 50%; Occupancy sensor Partial Off ≥50%; Local control device. After hour occupancy sensor Auto On/Off; Where ≥150W in daylight area, continuous dimming daylighting control.
Restaurant / Dining							CLOSE		D		D				Manual On; Time Off with closing hours. After hours 2 hour override from manual control device; Where ≥150W in daylight area, continuous dimming daylighting control with dimmer switch,
Bulking Façade / Landscape (Decorative)						CLOSE	OPEN	•							Dusk Auto On with astro time switch or photocell; Evening Time Auto Off no later than one hour after business close, Morning Time Auto On no earlier than one hour before business open; Dawn Auto Off,
"Exterior / Parking Lots / Site Lighting (Setback)"						6AM	12AM	•							Dusk Auto On with astro time switch or photocell; Reduce at least 30% from midnight or up to one hour after business close, Auto On to full at 6:00AM or up to one hour before business open; Dawn Auto Off,
Parking Garage						OPEN	CLOSE								Time On 100% when open, Time Off when closed,

VO.2 - 01022019

- = Designation for code compliant default control design for spaces without daylighting control
 D= Where daylighting control is required, "D" designation indicates controls required in the space for code compliance design
 CK= Captive Key Switch system for use in Hotel/Motel and Guest Suites



04/24/2025

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TSE Firm Registration No. 2234
DBR Project # 240717

BM	TD/RA/MS/DJ/JLT/N	-
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ARCHITECTS, INC.
APRIL 24, 2025
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DBR
223136.00

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DATE
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BRW PROJECT NUMBER



**KINGSVILLE
FIRE STATION NO. 3**

2602 S 6TH ST.
KINGSVILLE, TX 78363

NO.	REVISION	DATE

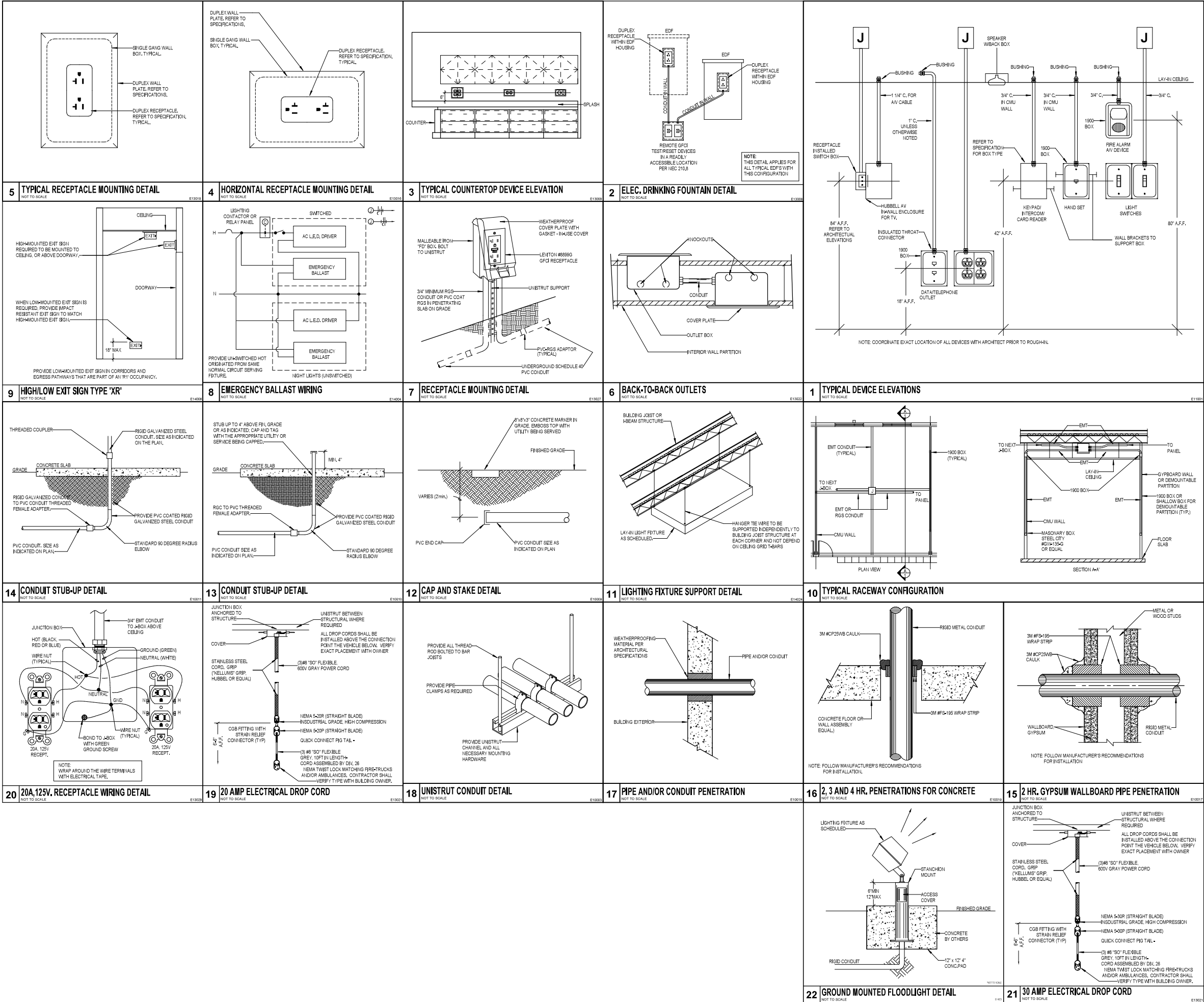
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ELECTRICAL SCHEDULES

DISRTIBUTION BOARD MDP											
65000 A AIC Rating											
X New											
Existing											
Mounting Style: SURFACE											
Type 1 -Nema Rating											
NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)
	39266 VA	Other: L.R....	1LA	250	250 A	3	4	100 A	2LA	Other: L.R....	20213 VA
	57858 VA	Spare: R, SP, F, C....	1LB	250	250 A	9	10	300 A	2LB	Spare: WH, SP....	83051 VA
	46774 VA	Spare: R, SP, K, M	1LC	250	250 A	15	16	90 A	OACU-1	C	19603 VA
	10820 VA	Spare: R, SP, M	EMU	3	100 A	21	22	60 A	OAHU-1	H	16720 VA
	28139 VA	MT	ELEVATOR	1/0	150 A	25	26	20 A	Spare	--	0 VA
	0 VA	--	Spare	12	20 A	31	32	20 A	Spare	--	0 VA
	0 VA	--	Spare	12	20 A	33	34	20 A	Spare	--	0 VA
	0 VA	--	Spare	12	20 A	35	36	20 A	Spare	--	0 VA
	0 VA	--	Spare	12	--	37	38	--	Spare	--	0 VA
	0 VA	--	Spare	12	--	39	40	60 A	SPD 5	SP	0 VA
	0 VA	--	Spare	12	--	41	42	--	Spare	--	0 VA
NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity		
220.44	(R)Receptacle	47900 VA	60.44%	210,20A	(L)Lighting	7687 VA	125.00%	9609 VA			
220.56	(K)Kitchen	10800 VA	65.00%	6890 VA	(E)Ext. Ltg.	1146 VA	125.00%	1433 VA			
220.60	(C)Cooling	68902 VA	100.00%	0 VA	(E)Elevators	620.14					
220.60	(H)Heating	102388 VA	100.00%	102388 VA	(WH)Wat. Htr.	1285 VA	100.00%	1285 VA			
220.60	(F)Fans	11467 VA	100.00%	11467 VA	(MT)Lrg. Motor	28139 VA	125.00%	35174 VA			
220.60	(M)Misc.	48718 VA	100.00%	48718 VA	(SP)Sub Phn. (W) Welders	0 VA	Not Computed	0 VA			
				630,11B							
Total Connected Load: 326895 VA VA = 907 A											
Total Load (Diversified): 246866 VA VA = 695 A											
Location of Panel: Space 18											

Panelboard 1LA											
65000 A AIC Rating											
X New											
Existing											
Mounting Style: SURFACE											
Type 1 -Nema Rating											
NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)
	1581 VA	Ohm...	LIGHTING	12	20 A	1	1	20 A	EXIT SIGNS	L	45 VA
	1747 VA	Ohm...	LIGHTING	12	20 A	3	4	20 A	SITE LIGHTING	EL	188 VA
	483 VA	L	LIGHTING	12	20 A	5	6	20 A	SITE LIGHTING	EL	244 VA
	918 VA	L	BAY LIGHTING	12	20 A	7	8	20 A	EXTERIOR WALLPACKS	L EL	92 VA
	918 VA	L	BAY LIGHTING	12	20 A	9	10	20 A	EXTERIOR LIGHTING	L EL	523 VA
	174 VA	L	FLAG POLE LIGHT	12	20 A	11	12	20 A	EXTERIOR LIGHTING	Ohm...	121 VA
	0 VA	--	Spare	12	20 A	13	14	20 A	Spare	--	0 VA
	0 VA	--	Spare	12	20 A	15	16	20 A	Spare	--	0 VA
	540 VA	R	RC - RM,104	12	20 A	17	18	20 A	RC - RM,116	R	1080 VA
	720 VA	R	RC - RM,109	12	20 A	19	20	20 A	RC - RM,109	R	540 VA
	540 VA	R	RC - RM,104	12	20 A	21	22	20 A	RC - RM,119,214	R	360 VA
	500 VA	M	EDF	12	20 A	23	24	20 A	RC - RM,113	R M	720 VA
	540 VA	R	RC - RM,101	12	20 A	25	26	20 A	RC - RM,121	R	180 VA
	360 VA	R	RC - RM,102	12	20 A	27	28	20 A	ICE MAKER	K	900 VA
	360 VA	R	RC - RM,108	12	20 A	29	30	20 A	RC - RM,117	R	360 VA
	360 VA	R	RC - RM,103,107	12	20 A	31	32	20 A	RC - RM,132	R	900 VA
	1080 VA	R	RC - RM,110	12	20 A	33	34	20 A	RC - RM,131	R	360 VA
	1080 VA	R	RC - RM,112	12	20 A	35	36	20 A	RC - RM,123	R	360 VA
	500 VA	M	EDF	12	20 A	37	38	--	Spare	--	0 VA
	0 VA	--	Spare	12	20 A	39	40	30 A	SPD 2	SP	0 VA
	1080 VA	R	RC - RM,114	12	20 A	41	42	--	Spare	--	0 VA
	540 VA	R	RC - RM,123	12	20 A	43	44	20 A	DISHWASHER	K	1000 VA
	500 VA	M	BOTTLE FILLER	12	20 A	45	46	20 A	RC - RM,130	R	720 VA
	900 VA	K	ICE MACHINE	12	20 A	47	48	20 A	RC - RM,128,129	R	360 VA
	1200 VA	K	COFFEE MAKER	12	20 A	49	50	20 A	RC - RM,126	R	540 VA
	180 VA	R	RC - RM,123	12	20 A	51	52	20 A	RC - RM,125	R	180 VA
	900 VA	M	GARBAGE DISPOSAL	12	20 A	53	54	20 A	RC - RM,125	R	180 VA
	1100 VA	M	RC - RM,123	12	20 A	55	56	20 A	RC - RM,125	R	180 VA
	180 VA	R	RC - RM,123	12	20 A	57	58	20 A	RC - RM,125	R	720 VA
	360 VA	M	RANGE HOOD LIGHTS	12	20 A	59	60	20 A	REFRIGERATOR	K	900 VA
	180 VA	R	RC - RM,123	12	20 A	61	62	20 A	REFRIGERATOR	K	900 VA
	180 VA	R	RC - RM,123	12	20 A	63	64	20 A	REFRIGERATOR	K	900 VA
	720 VA	R	RC - RM,123	12	20 A	65	66	20 A	EXTERIOR RECEPTACLE	R	540 VA
	720 VA	R	RC - RM,123	12	20 A	67	68	20 A	EXTERIOR RECEPTACLE	R	1080 VA
	720 VA	R	RC - RM,123	12	20 A	69	70	20 A	EXTERIOR HOLIDAY RC	R	540 VA
	1080 VA	M	GARBAGE DISPOSAL	12	20 A	71	72	20 A	EXTERIOR HOLIDAY RC	R	720 VA
	0 VA	--	Spare	12	20 A	73	74	20 A	Spare	--	0 VA
	0 VA	--	Spare	12	20 A	75	76	20 A	Spare	--	0 VA
	0 VA	--	Spare	12	20 A	77	78	20 A	Spare	--	0 VA
	0 VA	--	Spare	12	20 A	79	80	20 A	Spare	--	0 VA
	0 VA	--	Spare	12	20 A	81	82	20 A	Spare	--	0 VA
	0 VA	--	Spare	12	20 A	83	84	20 A	Spare	--	0 VA
NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity		
220.44	(R)Receptacle	20520 VA	74.37%	210,20A	(L)Lighting	5635 VA	125.00%	7044 VA			
220.56	(K)Kitchen	6700 VA	65.00%	4355 VA	(E)Ext. Ltg.	1106 VA	125.00%	1383 VA			
220.60	(C)Cooling	0 VA		0 VA	(E)Elevators	620.14					
220.60	(H)Heating	0 VA		0 VA	(WH)Wat. Htr.	0 VA					
220.60	(F)Fans	5040 VA	100.00%	5040 VA	(MT)Lrg. Motor	220.5					
				630,11B	(SP)Sub Phn. (W) Welders	0 VA	Not Computed	0 VA			
Total Connected Load: 39266 VA VA = 109 A											
Total Load (Diversified): 33347 VA VA = 93 A											
Location of Panel: Space 18											

Panelboard 1LB												65000 A AIC Rating X New		Existing	
120/208 VwV 3Ph, 4 Wire 2 Section				Main: Type		0 A — —		LUGS: DOUBLE FEED THRU		Mounting Style: SURFACE					
Type 1 -Nema Rating				MLO		250 A Buss (Copper)									
NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE			
	528 VA	F	EF-1-1	12	15 A	1	1	35 A	ACCUI-1	C	8025 VA				
	1333 VA	F	EF-1-2	12	15 A	5	6	8							
	528 VA	F	EF-1-3	12	15 A	9	10	25 A	ACCUI-2	C	4670 VA				
	1123 VA	F	GEF-1	12	20 A	11	12								
	1123 VA	F	GEF-2	12	20 A	15	16	25 A	ACCUI-3	C	4670 VA				
	360 VA	H	GUH-1	12	15 A	18	20								
	360 VA	H	GUH-2	12	15 A	21	22	35 A	ACCUI-4	C	8025 VA				
	360 VA	H	GUH-3	12	15 A	23	24								
	360 VA	H	GUH-4	12	15 A	25	26								
	4160 VA	C	CU-1	10	30 A	27	28	25 A	ACCUI-2-1	C	4670 VA				
	10954 VA	C	ACCUI-1-5	6	60 A	33	34	35 A	ACCUI-2-2	C	8025 VA				
	2484 VA	M	HVLS	12	20 A	39	40	30 A	SPD 2	SP	0 VA				
	3000 VA	H	EUH-1	12	20 A	43	44	20 A							
	540 VA	M	BOOSTER FAN	12	20 A	47	48	20 A	MOTORIZED GATE EXTERIOR RECEPTACLE	M	1200 VA				
	720 VA	M	MOTORIZED DAMPER	12	20 A	49	50	20 A	IRRIGATION CONTROL BOX	R	360 VA				
	0 VA	--	Spare	12	20 A	51	52	20 A	Spare	--	0 VA				
	0 VA	--	Spare	12	20 A	53	54	20 A	Spare	--	0 VA				
	0 VA	--	Spare	12	20 A	55	56	20 A	Spare	--	0 VA				
	0 VA	--	Spare	12	20 A	57	58	20 A	Spare	--	0 VA				
	0 VA	--	Spare	12	20 A	59	60	20 A	Spare	--	0 VA				
	0 VA	--	Spare	12	20 A	61	62	20 A	Spare	--	0 VA				
	0 VA	--	Spare	12	20 A	63	64	20 A	Spare	--	0 VA				
	0 VA	--	Spare	12	20 A	65	66	20 A	Spare	--	0 VA				
	0 VA	--	Spare	12	20 A	67	68	20 A	Spare	--	0 VA				
	0 VA	--	Spare	12	20 A	69	70	20 A	Spare	--	0 VA				
	0 VA	--	Spare	12	20 A	71	72	20 A	Spare	--	0 VA				
	0 VA	--	Spare	12	--	73	74	--	Spare	--	0 VA				
	0 VA	--	Spare	12	--	75	76	--	Spare	--	0 VA				
	0 VA	--	Spare	12	--	77	78	--	Spare	--	0 VA				
	0 VA	--	Spare	12	--	79	80	--	Spare	--	0 VA				
	0 VA	--	Spare	12	--	81	82	--	Spare	--	0 VA				
	0 VA	--	Spare	12	--	83	84	--	Spare	--	0 VA				
NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity						
220.44	(R)Receptacle	720 VA	100.00%	720 VA	210.20A	(L)Lighting									
220.56	(K)Kitchen					(E)Ext. Ltg.									
220.60	(C)Cooling	47199 VA	100.00%	47199 VA	620.14	(E)Elevators									
220.60	(H)Heating	4440 VA	100.00%	0 VA		(WH)Wat. Htr.									
220.60	(F)Fans	4635 VA	100.00%	4635 VA	220.5	(MT)Gas, Motor									
	(M)Misc.	5304 VA	100.00%	5304 VA		(SPS)Sub Pnl.	0 VA	Not Computed	0 VA						
						(W)Welders									
Total Connected Load:				62298 VA	VA =	173 A	Location of Panel: Space 18								
Total Load (Diversified):				57858 VA	VA =	161 A									



04/24/2025

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BRW

DBR
713.542.0885
https://www.dbr.com
Type: Registered Professional Engineer
No. 2254
Exp. Date: 04/24/2025
BRW PROJECT NUMBER: 223136.00

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BROWN REYNOLDS WATFORD ARCHITECTS, INC.
DATE: APRIL 24, 2025
DRAWN BY: DBR
CHECKED BY: DBR
BRW PROJECT NUMBER: 223136.00

**KINGSVILLE
FIRE STATION NO. 3**
2602 S 6TH ST.
KINGSVILLE, TX 78363

NO.	REVISION	DATE

E6.01

ELECTRICAL DETAILS

ISSUE FOR BID



04/24/2025

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BRW

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https://www.dbrmc.com
Texas Registered Professional Engineer
No. 2284
Exp. 08/2026

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BRW PROJECT NUMBER 223136.00

KINGSVILLE FIRE STATION NO. 3
2602 S 6TH ST.
KINGSVILLE, TX 78363

NO.	REVISION	DATE

DETAIL KEYED NOTES:

- BRANCH FEEDER SHALL BE SIZED PER PANEL SCHEDULES FOR EACH DUCTLESS SPLIT UNIT. WIRE SIZE FROM PANEL TO OUTDOOR UNIT AND OUTDOOR UNIT TO FAN UNIT SHALL BE THE SAME SIZE. NEUTRAL NOT INDICATED AND SHALL BE PROVIDED ONLY IF REQUIRED BY MANUFACTURER.
- PROVIDE 30A, 40A, 100A FRAME DISCONNECT BASED ON UPSTREAM BREAKER RATING.

NOTES:

A. ALL DUCTLESS SPLIT INDOOR UNIT ARE RECEIVE POWER FROM OUTDOOR UNITS. REFER TO MANUFACTURERS WIRING DIAGRAMS TO VERIFY WIRING SCHEMATIC. BASIS OF DESIGN SHOWN AND MAY VARY BASED ON FINAL FURNISHED PRODUCT.

B. PROVIDE NEMA4X STAINLESS STEEL DISCONNECT AT OUTDOOR CONDENSING UNIT IF WITHIN 90 FEET OF SALTWATER COASTLINE.

4 DUCTLESS SPLIT ELECTRICAL CONNECTION DETAIL
NOT TO SCALE

6 ROOF CONDUIT PENETRATION DETAIL
NOT TO SCALE

5 TECHNICAL GROUND BUS DETAIL
NOT TO SCALE

3 GROUND TESTWELL ENCLOSURE
NOT TO SCALE

2 CONCRETE POLE BASE DETAIL 1
NOT TO SCALE

1 GROUNDING ELECTRODE SYSTEM AND BONDING DETAIL
NOT TO SCALE

10 FLUSH FIRE RATED POKE-THRU
NOT TO SCALE

9 PULL BOX DETAIL
NOT TO SCALE

8 CARD READER ROUGH-IN DETAIL
NOT TO SCALE

7 TYPICAL GROUNDING BUS DETAIL
NOT TO SCALE