WESTLAKE ACADEMY
ARTS & SCIENCES ADDITION

2600 J.T. OTTINGER RD. WESTLAKE, TX 76262

BRW PROJECT NO.: 225057.00
JANUARY 20, 2026



BID ALTERNATES

ALTERNATE #1 (DEDUCT):

IN LIEU OF HARDWOOD VENEER CASEWORK, PROVIDE PLASTIC LAMINATE (PL1) CASEWORK.

ALTERNATE #2 (DEDUCT):

IN LIEU OF TONGUE AND GROOVE WOOD CEILING IN CORRIDORS 500 & 501, PROVIDE 1/2" GYPSUM CEILING (TYPE X).

RENDERINGS

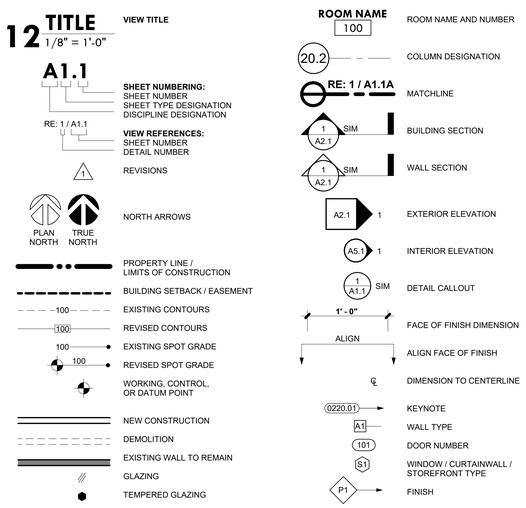
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AREA TABULATION

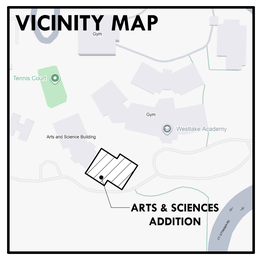
ALL SITE AND BUILDING AREA TABULATIONS SHOWN ARE FOR OWNER AND GOVERNING AUTHORITY REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN QUANTITY AND AREA CALCULATIONS.

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CIVIL ENGINEER	**URBAN STRATEGY** 1112 E. 1ST STREET FORT WORTH, TEXAS 76102 214.396.2339
STRUCTURAL ENGINEER	**HART GAUGLER + ASSOCIATES** 8350 N. CENTRAL EXPRESSWAY, SUITE 600 DALLAS, TX 75206 972.239.5111
MECHANICAL ELECTRICAL PLUMBING TECHNOLOGY ENGINEER	**SALAS O'BRIEN** 106 DECKER DRIVE, SUITE 200 IRVING, TX 75062 972.812.1270
LANDSCAPE ARCHITECT	**SMR LANDSCAPE ARCHITECTS, INC.** 1708 N GRIFFIN ST, DALLAS, TX 75202 214.871.0083

SYMBOL LEGEND



VICINITY MAP



CODE INFORMATION

BUILDING CODES AND STANDARDS

BUILDING:	2021 INTERNATIONAL BUILDING CODE (IBC) *
EXISTING:	2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC) *
FIRE:	2021 INTERNATIONAL FIRE CODE (IFC)
ENERGY:	2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) *
PLUMBING:	2021 INTERNATIONAL PLUMBING CODE (IPC) *
MECHANICAL:	2021 INTERNATIONAL MECHANICAL CODE (IMC) *
	2021 INTERNATIONAL FUEL GAS CODE *
ELECTRICAL:	2020 NATIONAL ELECTRIC CODE (NEC) *
	2020 INTERNATIONAL ELECTRICAL CODE ADMINISTRATION PROVISIONS (IECAP)

ACCESSIBILITY STANDARDS

2012 TEXAS ACCESSIBILITY STANDARDS (TAS)
AMERICANS WITH DISABILITIES ACT (ADAAG)

TABS# 2026010426

* WITH TOWN OF WESTLAKE AMENDMENTS

ARCHITECTURAL ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR	**MNTD.**	MOUNTED
B.O.	BOTTOM OF	**NOM.**	NOMINAL
C.J.	CONTROL JOINT	**N.I.C.**	NOT IN CONTRACT
CLR.	CLEAR	**O.C.E.W.**	ON CENTER EACH WAY
DIA.	DIAMETER	**O.H.**	OPPOSITE HAND
DN	DOWN	**RE:/REF:**	REFERENCE
E.J.	EXPANSION JOINT	**REQ./REQD.**	REQUIRED
EQ.	EQUAL	**R.O.**	ROUGH OPENING
F.F.	FINISH FLOOR	**SIM.**	SIMILAR
F.V.	FIELD VERIFY	**T.O.**	TOP OF
GA.	GAUGE	**TYP.**	TYPICAL
M.O.	MASONRY OPENING	**W/**	WITH
MAX.	MAXIMUM	**W.B.**	WIND BRACE
MIN.	MINIMUM	**W.P.**	WORKING POINT

NOTE: ADDITIONAL SYMBOLS OR ABBREVIATIONS MAY BE INCLUDED IN SHEET SPECIFIC LEGENDS. NOT ALL SYMBOLS OR ABBREVIATIONS LISTED ABOVE MAY BE USED IN THE PROJECT

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ISSUE FOR PROPOSALS

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WESTLAKE ACADEMY
ARTS & SCIENCES ADDITION
2600 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

G1.1
TITLE SHEET AND DRAWING INDEX

MASTER KEYNOTE LIST

0100	DIVISION 01 - GENERAL REQUIREMENTS
0200	DIVISION 02 - EXISTING CONDITIONS (TO REMAIN, U.N.O.) & DEMOLITION
0220.01	EXISTING TREE
0220.02	EXISTING LIGHT POLE
0220.03	EXISTING POWER POLE
0220.10	EXISTING FIRE HYDRANT
0220.13	EXISTING GAS METER
0220.14	EXISTING MANHOLE COVER
0220.15	EXISTING GRATE INLET
0220.30	EXISTING CONCRETE GRADE BEAM
0220.31	EXISTING CONCRETE SLAB
0220.33	EXISTING MASONRY WALL
0220.34	EXISTING W12X14 STEEL BEAM TO REMAIN, F.V.
0220.35	EXISTING HSS 12X6X3/8 STEEL COLUMN TO REMAIN, F.V.
0220.42	EXISTING DOWNSPOUT
0220.43	EXISTING ROOFING SYSTEM
0220.54	EXISTING FLAGPOLE
0220.73	EXISTING FIRE ALARM CONTROL PANEL
0220.74	EXISTING STUCCO WALL
0240.01	REMOVE EXISTING TREE (RE: LANDSCAPE)
0240.03	SAWCUT AND REMOVE EXISTING CONCRETE PAVING (RE: CIVIL)
0240.10	REMOVE EXISTING GRATE INLET (RE: CIVIL)
0240.16	REMOVE EXISTING MASONRY WALL
0240.19	REMOVE EXISTING DOOR AND FRAME
0240.22	REMOVE EXISTING STUD WALL
0240.23	REMOVE PORTION OF EXISTING WALL
0240.26	REMOVE EXISTING ACOUSTICAL TILE CEILING AND SUSPENSION SYSTEM
0240.28	REMOVE EXISTING LIGHT FIXTURE
0240.32	CAREFULLY REMOVE AND SALVAGE EXISTING WALL AND CEILING MOUNTED DEVICES INCLUDING FIRE ALARM DEVICES, CLOCKS, SPEAKERS, AND WIRELESS ACCESS DEVICES. REINSTALL DEVICES AT NEW WALLS AND CEILINGS
0240.35	REMOVE EXISTING CONCRETE STEPS (RE: CIVIL)
0240.39	REMOVE WALL BASE
0240.40	REMOVE EXISTING RETAINING WALL (RE: CIVIL)
0240.41	CAREFULLY SAWCUT AND CLEANLY REMOVE EXTERIOR CAST STONE TO ALLOW FOR 1" CLEAR FOR E.J.
0240.42	CAREFULLY REMOVE EXTERIOR STONE VENEER TO ALLOW FOR 1" CLEAR FOR E.J.
0240.43	REMOVE EXISTING FLASHING AND FLASHING CAP
0240.45	REMOVE CONCRETE TILE CAP EDGE
0300	DIVISION 03 - CONCRETE
0310.04	SOIL RETAINERS (RE: STRUCTURAL)
0310.05	VOID FORMS (RE: STRUCTURAL)
0310.10	CONCRETE EXPANSION JOINT, FILL WITH SEALANT TO WITHIN 1/4" OF SURFACE
0310.11	EXPANSION JOINT PREMOLDED EXPANSION FILLER
0320.01	DOWEL INTO CONCRETE SLAB (RE: STRUCTURAL)
0330.02	CONCRETE SLAB (RE: STRUCTURAL)
0330.05	CONCRETE GRADE BEAM
0330.06	CONCRETE GRADE BEAM ON VOID FORMS (RE: STRUCTURAL)
0360.02	CEMENT GROUT
0360.03	FILL WITH GROUT
0400	DIVISION 04 - MASONRY
0405.01	FLASHING END DAM
0405.02	MORTAR NET
0405.04	MASONRY CONTROL JOINT
0405.05	MASONRY VENEER WEEP / VENT
0420.01	ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
0440.07	STONE VENEER
0440.08	FLAT STONE
0470.01	CAST STONE
0470.05	CAST STONE SILL WITH DRIP
0470.06	CAST STONE CAP - PIN BOLT CONNECTIONS
0500	DIVISION 05 - METALS
0510.04	STEEL ANGLE (RE: STRUCTURAL)
0510.06	STEEL LINTEL, PAINTED TO MATCH STOREFRONT (RE: STRUCTURAL)
0540.01	COLD-FORMED METAL FRAMING (RE: STRUCTURAL)
0540.02	6" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM (RE: STRUCTURAL)
0540.06	2" COLD-FORMED METAL FURRING CHANNEL (RE: STRUCTURAL)
0540.08	SILL GASKET
0540.12	COLD-FORMED METAL HEADER (RE: STRUCTURAL)
0540.14	COLD-FORMED METAL ANGLE (RE: STRUCTURAL)
0540.18	3 5/8" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
0540.30	COLD ROLLED STEEL ROOF TRUSS TOP CHORD EXTENSION (RE: STRUCTURAL)
0540.31	10" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM (RE: STRUCTURAL)
0540.32	COLD ROLLED STEEL ROOF TRUSS (RE: STRUCTURAL)
0540.34	6" METAL JAMB (C.F.M.F.) (RE: STRUCTURAL)
0540.35	TRUSS CONNECTION (RE: STRUCTURAL)
0540.36	CONT. STRAP (RE: STRUCTURAL)
0550.04	STEEL ANGLE (RE: STRUCTURAL)
0550.12	STEEL BASE PLATE (RE: STRUCTURAL)
0570.14	DECORATIVE STEEL HANDRAIL SYSTEM, PAINTED TO MATCH EXISTING
0600	DIVISION 06 - WOOD, PLASTICS, & COMPOSITES
0610.01	SHIM AS REQUIRED
0610.02	1X WOOD BLOCKING
0610.03	2X WOOD BLOCKING
0610.04	2X PRESSURE TREATED WOOD BLOCKING
0610.05	1/2" EXTERIOR GRADE PLYWOOD
0610.22	3/4" TONGUE & GROOVE PLYWOOD ROOF DECKING
0610.30	HEAVY TIMBER WOOD TRUSS (RE: STRUCTURAL)
0610.31	HEAVY TIMBER COLUMN (RE: STRUCTURAL)
0610.32	HEAVY TIMBER BEAM (RE: STRUCTURAL)
0610.39	1/2" EXTERIOR GYPSUM SHEATHING
0610.40	ROUGH SAWN WOOD FRAMING, STAINED AND SEALED (RE: STRUCTURAL)
0610.41	ROUGH SAWN WOOD FASCIA, STAINED AND SEALED
0610.42	1" PLYWOOD ROOF DECK (RE: STRUCTURAL)
0610.43	SHEAR WALL SHEATHING (RE: STRUCTURAL)
0610.44	ROUGH SAWN WOOD TRIM, STAINED AND SEALED
0610.46	ROUGH SAWN WOOD LINTEL, STAINED AND SEALED
0620.02	1X HARDWOOD TRIM
0620.29	HARDWOOD CORNER GUARD (RE: PLAN DETAIL)
0620.31	FULLY UPHOLSTERED HIGH-DENSITY FOAM BENCH CUSION WITH SOLID BACKING. SECURE TO SUBSTRATE WITH SEMI-PERMANENT ATTACHMENTS FOR REMOVAL AND CLEANING.
0620.32	1" TONGUE & GROOVE WOOD SOFFIT, STAINED AND SEALED TO MATCH FASCIA
0640.07	3/4" PLYWOOD
0640.08	3/4" HARDWOOD VENEER PLYWOOD
0640.09	1/2" PLYWOOD
0640.15	CABINET CAM LOCK
0640.17	DRAWER GLIDE
0640.18	ADJUSTABLE SHELVING
0640.19	ADJUSTABLE SHELF REST AND PRE-DRILLED HOLES AT 1" O.C. TYP.
0640.22	CABINET PULLS
0640.26	HARDWOOD DRAWER WITH 1/4" HARDWOOD BOTTOM
0640.27	1" THICK HARDWOOD VENEER COMBINATION CORE CABINET DOOR
0640.45	1/4" HARDWOOD VENEER CABINET BACK
0640.68	HARDWOOD VENEER OPEN SHELVING
0640.72	HARDWOOD VENEER PORTFOLIO CABINET MILLWORK
0640.73	1/4" HARDWOOD VENEER WALL PANELING
0640.76	3/4" HARDWOOD VENEER CLAD PLYWOOD DRAWER WITH 1/4" HARDWOOD BOTTOM
0660.01	FIBER-REINFORCED PLASTIC PANEL
0700	DIVISION 07 - THERMAL & MOISTURE PROTECTION
0720.01	3 1/2" BATT INSULATION
0720.02	6 1/4" BATT INSULATION
0720.05	2" CONTINUOUS RIGID INSULATION
0720.07	FOAMED-IN-PLACE INSULATION
0720.17	3" CONTINUOUS RIGID INSULATION
0720.18	1/2" POLYISO COVERBOARD
0725.01	UNDERSLAB VAPOR BARRIER
0725.02	SELF-ADHERING SHEET AIR BARRIER SYSTEM
0725.03	PLASTIC FILM AIR BARRIER SYSTEM
0725.04	FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
0725.05	SELF-ADHERING DETAIL TRANSITION MEMBRANE
0730.04	SELF-ADHERING, HIGH-TEMPERATURE AIR BARRIER SYSTEM
0730.12	CONCRETE TILE RIDGE CAP
0730.13	CONCRETE TILE ROOFING SYSTEM
0730.16	REMOVE AND REINSTALL CONCRETE TILE ROOFING AS REQUIRED
0740.02	PREFINISHED METAL WALL PANEL SYSTEM
0740.07	CONCEALED METAL CLIP
0740.12	HEAD CHANNEL CLOSURE BY WALL PANEL MANUFACTURER
0740.13	SILL CHANNEL CLOSURE BY WALL PANEL MANUFACTURER
0740.14	PREFINISHED METAL EXPANSION JOINT, SIM. TO SMACNA FIG. 5-6B
0750.10	TAPERED ROOF INSULATION
0750.11	HEAT-WELDED LAP
0750.12	WALKWAY PAD
0750.14	VOID
0750.17	HEAT-WELDED LAP
0750.19	PVC ROOFING FLASHING MEMBRANE
0750.21	PVC ROOFING
0750.22	SEAM PLATE AND FASTENERS
0760.01	THROUGH-WALL FLASHING WITH WEEPS AT 2'-0" O.C. AND MORTAR NET
0760.02	THROUGH-WALL FLASHING (WITH WEEPS AT 2'-0" O.C. AS REQUIRED)
0760.03	PREFINISHED METAL GUTTER
0760.24	PREFINISHED METAL DRIP EDGE
0760.31	PREFINISHED METAL COPING SYSTEM, SMACNA FIG. 3.1
0760.34	PREFORMED PREFINISHED METAL FLASHING WITH ALL SEAMS WELDED WATERTIGHT
0760.38	PREFINISHED METAL FLASHING ANGLE SET IN SEALANT
0760.40	TERMINATION BAR AND PREFINISHED FLASHING CAP
0760.48	PREFINISHED TWO PIECE METAL FLASHING
0760.50	3" GALVANIZED STEEL DOWNSPOUT
0760.51	PREFINISHED GALVANIZED STEEL GUTTER
0760.53	GALVANIZED SHEET METAL
0760.55	PREFINISHED COUNTER FLASHING, SMACNA FIG. 4-4D WITH THROUGH-WALL
0770.04	PREFINISHED METAL REGLET WITH SEALANT AND COUNTERFLASHING
0770.15	PREFINISHED GRAVEL STOP FASCIA SYSTEM WITH CLEAT, SMACNA FIG. 2
0770.18	CONCRETE SPLASH BLOCK
0770.31	HYBRID WOOD ALUMINUN ARCHITECTURAL SCREEN
0770.33	HYBRID WOOD ALUMINUM TUBE - "GEOLAM - SOLEO 6027" OR ARCHITECT-APPROVED EQUAL
0770.34	ARCHITECTURAL SCREEN PREFINISHED STEEL STRUCTURAL SUPPORT, COLOR TO BE SELECTED BY ARCHITECT
0770.35	SQUARE TUBE WRAP, EQUIVALENT TO GAF EVERGUARD DETAIL 527
0790.01	SEALANT WITH BACKER ROD AS REQUIRED
0790.02	SEALANT
0790.04	METAL FLOOR EXPANSION JOINT COVER - "CONSTRUCTION SPECIALTIES PC2G-100" OR ARCHITECT-APPROVED EQUAL
0790.05	METAL ROOF EXPANSION JOINT COVER - "CONSTRUCTION SPECIALTIES RJTW-100" OR ARCHITECT-APPROVED EQUAL
0790.07	SET IN BED OF SEALANT
0790.08	PRE-FORMED COMPRESSIBLE SELF-EXPANDING SEALANT
0790.11	CEILING EXPANSION JOINT COVER - "CONSTRUCTION SPECIALITIES FCF" OR ARCHITECT-APPROVED EQUAL
0790.14	METAL WALL EXPANSION JOINT COVER - "CONSTRUCTION SPECIALTIES AFW" OR ARCHITECT-APPROVED EQUAL
0800	DIVISION 08 - OPENINGS
0810.02	HOLLOW METAL FRAME
0810.05	JAMB ANCHOR (3 PER JAMB)
0810.09	STILE AND RAIL PANELED WOOD DOOR
0830.03	CEILING ACCESS PANEL
0830.17	UPWARD INSULATED ACTING SECTIONAL DOOR
0830.18	DOOR TRACK
0830.28	CARRIER WHEEL WITH PACKED BALL BEARING
0830.29	STABILIZING WHEEL
0830.30	HEADER TRACK
0830.32	STAINLESS STEEL WALL PIVOT
0830.33	STAINLESS STEEL HINGE
0830.34	STAINLESS STEEL CONCEALED INTERMEDIATE GUIDE
0840.01	ALUMINUM STOREFRONT
0840.02	ALUMINUM STOREFRONT DOOR
0840.05	CONTINUOUS ALUMINUM SILL PAN FLASHING WITH BACK AND END DAMS
0840.34	FOLDING ALUMINUM GLASS DOORS
0870.01	METAL THRESHOLD. SET IN BED OF SEALANT
0870.10	DOOR BOTTOM WITH DRIP SKIRT
0880.63	1/4" FLOAT GLASS
0880.64	GLASS 1" IGU
0900	DIVISION 09 - FINISHES
0920.02	2-1/2" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C. MAXIMUM
0920.04	3-5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C. MAXIMUM
0920.07	6" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C. MAXIMUM
0920.08	STUD BRACE AT 4'-0" O.C. MAXIMUM
0920.10	7/8" FURRING CHANNELS AT 16" O.C.
0920.18	1" PORTLAND CEMENT STUCCO ON METAL LATH
0920.19	STUCCO CASING BEAD WITH WEEPS
0920.21	STUCCO CONTROL JOINT
0920.22	STUCCO CASING BEAD
0920.28	5/8" GYPSUM BOARD (TYPE X)
0920.31	1/2" GYPSUM BOARD (TYPE X)
0920.32	(2) LAYERS OF 1/2" GYPSUM BOARD
0920.35	CORNER BEAD, TYPICAL
0920.36	J-MOULD, TYPICAL
0920.43	1/2" CEMENTITIOUS BACKER BOARD
0930.10	SCHLUTER JOLLY EDGE PROTECTION PROFILE
0930.13	GLAZED PORCELAIN TILE
0930.14	SCHLUTER DESIGNLINE DECORATIVE BORDER PROFILE
0950.01	SUSPENDED ACOUSTICAL LAY-IN CEILING
0950.03	TONGUE AND GROOVE WOOD CEILING
0950.06	SUSPENDED ACOUSTICAL BAFFLE CEILING SYSTEM
0950.09	CEILING GRID SUSPENSION SYSTEM
0950.10	WOOD CEILING ACCESS PANEL
0950.14	SUSPENSION SYSTEM TRANSITION CLIP
0960.01	FLOORING AS SCHEDULED
0960.13	4" RESILIENT BASE
0960.27	6" RESILIENT BASE
0970.04	WALL PROTECTION PANEL
0970.05	MAGNETIC MARKABLE WALL COVERING
0980.02	3 1/2" MINERAL WOOL SOUND ATTENUATION BATT INSULATION
0980.13	6" MINERAL WOOL SOUND ATTENUATION BATT INSULATION
0990.04	CLEAN AND PREP SURFACE AND PAINT
1000	DIVISION 10 - SPECIALTIES
1010.04	TACKBOARD
1010.22	INTERIOR SIGNAGE
1010.50	WALL-MOUNTED FLAT PANEL DISPLAY MOUNTING HARDWARE. PROVIDE PLYWOOD IN WALL AS REQUIRED
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	STAINLESS STEEL SOAP DISPENSER (O.P.C.I.)
1020.22	STAINLESS STEEL PAPER TOWEL DISPENSER (O.P.C.I.)
1020.26	STAINLESS STEEL JUMBO ROLL TOILET PAPER DISPENSER (O.P.C.I.)
1020.27	STAINLESS STEEL SANITARY NAPKIN DISPOSAL (PARTITION MOUNTED) (O.P.C.I.)
1020.30	STAINLESS STEEL PAPER TOWEL DISPENSER / TRASH RECEPTACLE (O.P.C.I.)
1020.32	STAINLESS STEEL FRAMED MIRROR
1020.34	VINYL-COATED PIPING WRAP
1020.47	STAINLESS STEEL TOILET SEAT COVER DISPENSER (O.P.C.I.)
1040.02	FIRE EXTINGUISHER AND WALL BRACKET
1040.03	FIRE EXTINGUISHER AND SEMI-RECESSED CABINET
1040.07	FIRE BLANKET AND CABINET
1050.21	WIRE FOUR POST SHELVING UNITS
1100	DIVISION 11 - EQUIPMENT
1140.09	ICE MACHINE
1150.09	WALL-MOUNTED FLAT PANEL DISPLAY MOUNTING HARDWARE. PROVIDE PLYWOOD IN WALL AS REQUIRED
1150.15	GOGGLE STERILIZATION CABINET
1150.17	FUME HOOD
1150.21	FLAMMABLES STORAGE CABINET
1150.24	PREMANUFACTURED ACID STORAGE CABINET
1150.36	EXPLOSIVES CABINET
1150.38	PREFINISHED METAL DUCT FUME HOOD COVER
1150.39	GLASSWARE WASHER
1160.10	KILN
1160.11	KILN HOOD
1200	DIVISION 12 - FURNISHINGS
1220.05	MOTORIZED WINDOW SHADE
1220.06	MANUAL WINDOW SHADE
1230.01	FACTORY-PAINTED TALL STORAGE CABINET
1230.02	HARDWOOD VENEER TALL STORAGE CABINET
1230.05	FLAT FILE (N.I.C.)
1230.17	CASEWORK FILLER
1230.21	CHEMICAL RESISTANT EPOXY RESIN COUNTERTOP WITH INTEGRAL SINKS
1230.24	HARDWOOD VENEER BASE CABINET CASEWORK WITH ADJUSTABLE SHELVES
1230.44	HARDWOOD VENEER BASE CABINETS WITH INDIVIDUAL MICROSCOPE CHARGING STATIONS
1230.45	HARDWOOD VENEER BASE CABINETS
1230.46	FACTORY-PAINTED METAL WALL CABINETS WITH GLASS DOORS AND ADJUSTABLE SHELVES
1230.47	FACTORY-PAINTED METAL WALL OPEN SHELVING
1230.48	QUARTZ COUNTERTOP WITH 4" SPLASH AS SHOWN
1230.49	REMOVABLE STAINLESS STEEL DIVIDER
1230.50	CHEMICALLY RESISTANT EPOXY POWDER COAT ENAMEL
1230.52	FACTORY-PAINTED METAL WALL FLOATING SHELF
1230.53	SCIENTIFIC-GRADE HARDWOOD VENEER BASE CABINETS
1230.54	FACTORY-PAINTED METAL BASE CABINETS
1230.55	FACTORY-PAINTED METAL TRIM
1230.62	CHEMICAL RESISTANT EPOXY RESIN COUNTERTOP
1230.63	3/4" PLYWOOD
1230.64	3/4" HARDWOOD VENEER PLYWOOD
1230.65	CABINET CAM LOCK
1230.66	DRAWER GLIDE
1230.67	ADJUSTABLE SHELF REST AND PRE-DRILLED HOLES AT 1" O.C. TYP.
1230.68	CABINET PULLS
1230.69	HARDWOOD DRAWER WITH 1/4" HARDWOOD BOTTOM
1230.70	1/4" HARDWOOD VENEER CABINET BACK
1230.71	CONCEALED COUNTERTOP BRACKET WITH IN-WALL CONFIGURATION HARDWARE. PROVIDE BLOCKING IN WALL AS REQUIRED
1230.72	3/4" HARDWOOD VENEER CABINET DOOR
1230.73	3/4" HARDWOOD VENEER CLAD PLYWOOD DRAWER WITH 1/4" HARDWOOD BOTTOM
1230.75	FACTORY-PAINTED ADJUSTABLE SHELVES
2100	DIVISION 21 - FIRE SUPPRESSION (RE: PLUMBING)
2200	DIVISION 22 - PLUMBING (RE: PLUMBING)
2210.01	PLUMBING VENT (RE: PLUMBING)
2210.02	PIPE SLEEVE AND SEAL (RE: PLUMBING)
2210.13	ROOF DRAIN (RE: PLUMBING)
2210.15	OVERFLOW ROOF DRAIN (RE: PLUMBING)
2210.16	DOWNSPOUT NOZZLE (RE: PLUMBING)
2210.17	AIR COMPRESSOR/TANK (RE: PLUMBING)
2210.25	REFRIGERATED AIR DRYER (RE: PLUMBING)
2240.07	SINK FITTINGS (RE: PLUMBING)
2240.12	UTILITY SINK (RE: PLUMBING)
2240.16	EMERGENCY EYE WASH STATION
2240.19	WATER FOUNTAIN AND BOTTLE FILLER (RE: PLUMBING)
2240.25	LAB SINK WITH GAS TAPS (RE: PLUMBING)
2240.26	HOSE REEL (RE: PLUMBING)
2240.27	EYE WASH AT SINK (RE: PLUMBING)
2300	DIVISION 23 - HEATING, VENTILATING, & AIR-CONDITIONING (HVAC) (RE: MECHANICAL)
2330.01	HVAC DUCTWORK
2330.17	SUPPLY AIR REGISTER
2330.18	RETURN AIR GRILLE
2600	DIVISION 26 - ELECTRICAL (RE: ELECTRICAL)
2609.01	LIGHTING CONTROL SWITCH (RE: ELECTRICAL)
2620.01	CONDUIT (RE: ELECTRICAL)
2620.03	ELECTRICAL JUNCTION BOX (RE: ELECTRICAL)
2620.04	ELECTRICAL OUTLET (RE: ELECTRICAL)
2620.20	INTEGRATED 10 OUTLET POWER STRIP WITH SURGE PROTECTION (RE: ELECTRICAL)
2620.21	CORD REEL (RE: ELECTRICAL)
2650.01	RECESSED LIGHT FIXTURE (RE: ELECTRICAL)
2650.03	SURFACE-MOUNTED LIGHT FIXTURE (RE: ELECTRICAL)
2650.04	SUSPENDED LIGHT FIXTURE (RE: ELECTRICAL)
2650.05	COVE-MOUNTED WALL WASHER LIGHT FIXTURE (RE: ELECTRICAL)
2650.08	LAY-IN LIGHT FIXTURE (RE: ELECTRICAL)
2650.09	UNDER / OVER CABINET LIGHT (RE: ELECTRICAL)
2650.10	WALL-MOUNTED EXIT SIGN (RE: ELECTRICAL)
2650.22	WALL MOUNTED LIGHT FIXTURE (RE: ELECTRICAL)
2650.23	CEILING-WASHING COVE LIGHT FIXTURE (RE: ELECTRICAL)
2650.24	SUSPENDED LIGHT FIXTURE (RE: ELECTRICAL)
2650.25	PENDANT LIGHT FIXTURE (RE: ELECTRICAL)
2700	DIVISION 27 - COMMUNICATIONS
2800	DIVISION 28 - ELECTRONIC SAFETY & SECURITY
2810.01	MOTION SENSOR
2810.04	KEYPAD ACCESS CONTROL
3100	DIVISION 31 - EARTHWORK
3120.01	GRADE
3200	DIVISION 32 - EXTERIOR IMPROVEMENTS
3210.13	1/8" GROOVES AT 2" O.C.
3210.14	CONCRETE PAVING (RE: CIVIL)
3210.22	PAVING EXPANSION JOINT - FILL WITH JOINT SEALER 1/4" BELOW SURFACE
3210.39	MEDIUM BROOM FINISH CONCRETE (RE: LANDSCAPE)
3210.40	SANDBLASTED CONCRETE (RE: LANDSCAPE)
3210.41	CONCRETE STAIR (RE: LANDSCAPE)
3230.52	MASONRY RETAINING WALL (RE: CIVIL / LANDSCAPE)
3230.63	REINSTALLED EXISTING SIGNAGE
3290.01	LANDSCAPE BED (RE: LANDSCAPE)
3300	DIVISION 33 - UTILITIES (RE: CIVIL & MEP)
3340.04	AREA DRAIN INLET (RE: CIVIL)

MASTERFORMAT 2020

THE MASTER KEYNOTE LIST USES CSI MASTERFORMAT 2020 EDITION LEVEL 2 NUMBERS AND TITLES

EXAMPLE			
KEYNOTE	DIVISION	LEVEL 2	IDENTIFIER
0960.01	09	60	.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 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)**

ISSUE FOR PROPOSALS

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DATE JANUARY 20, 2026
DRAWN BY MCR, JCP
CHECKED BY RVH, AIH
BRW PROJECT NUMBER 225057.00

WESTLAKE ACADEMY
ARTS & SCIENCES ADDITION
2400 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

G1.2

MASTER KEYNOTE LIST

CODE INFORMATION

BUILDING CODES AND STANDARDS

BUILDING:	2021 INTERNATIONAL BUILDING CODE (IBC) *
EXISTING:	2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC) *
FIRE:	2021 INTERNATIONAL FIRE CODE (IFC)
ENERGY:	2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) *
PLUMBING:	2021 INTERNATIONAL PLUMBING CODE (IPC) *
MECHANICAL:	2021 INTERNATIONAL MECHANICAL CODE (IMC) *
	2021 INTERNATIONAL FUEL GAS CODE *
ELECTRICAL:	2020 NATIONAL ELECTRIC CODE (NEC) *
	2020 INTERNATIONAL ELECTRICAL CODE ADMINISTRATION PROVISIONS (IECAP)

ACCESSIBILITY STANDARDS

2012 TEXAS ACCESSIBILITY STANDARDS (TAS)
AMERICANS WITH DISABILITIES ACT (ADAAG)

* WITH TOWN OF WESTLAKE AMENDMENTS

SCOPE OF WORK

BUILDING ADDITION, RENOVATIONS, AND SITE IMPROVEMENTS

OCCUPANCY CLASSIFICATION

IBC CHAPTER 3

EDUCATIONAL: GROUP E

BUILDING HEIGHTS AND AREAS

IBC CHAPTER 5

CONSTRUCTION TYPE PER TABLE 601:

EXISTING BUILDING:	5B
ADDITION:	5B

ALLOWABLE BUILDING HEIGHT AND STORIES PER TABLES 504.3 & 504.4

OCCUPANCY	HEIGHT (FT)	STORIES
EDUCATIONAL (E)	60	2

DESIGNED BUILDING HEIGHTS

	HEIGHT (FT)	STORIES
EXISTING:	30	1
NEW:	31	1

ALLOWABLE AREA PER TABLE 506.2

OCCUPANCY	ALLOWABLE AREA FACTOR (SF)
EDUCATIONAL (E)	36,000

FRONTAGE INCREASE: N/A

DESIGNED BUILDING AREAS

EXISTING BUILDING	
UNRENOVATED:	6,700 GSF
RENOVATED:	2,300 GSF
TOTAL:	**9,000 GSF**
NEW CONSTRUCTION	
ADDITION:	7,884 GSF
GRAND TOTAL:	**16,884 GSF**

TYPES OF CONSTRUCTION

IBC CHAPTER 6

FIRE-RESISTANCE RATING REQUIREMENTS PER TABLE 601

ELEMENTS	HOURS (TYPE 5B)
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS - EXTERIOR	0
BEARING WALLS - INTERIOR	0
NON-BEARING WALLS - EXTERIOR	SEE TABLE 705.5
NON-BEARING WALLS - INTERIOR	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

FIRE AND SMOKE PROTECTION FEATURES

IBC CHAPTER 7

FIRE RESISTANCE REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE

CONSTRUCTION TYPE:	5B
OCCUPANCY GROUP:	EDUCATIONAL (E)

DISTANCE (FT)	HOURS
X < 5	1
5 ≤ X < 10	1
10 ≤ X < 30	0
X ≥ 30	0

FIRE-RESISTIVE RATED CONSTRUCTION
REFERENCE LIFE SAFETY PLAN AND PARTITION TYPES FOR FIRE RATED CONSTRUCTION AND ASSOCIATED UL ASSEMBLIES

INTERIOR FINISHES

IBC CHAPTER 8

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY

SPRINKLERED

EXIT PASSAGEWAYS:

GROUP	CLASS
E	B

CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS:

GROUP	CLASS
E	C

ROOMS AND ENCLOSED SPACES:

GROUP	CLASS
E	C

FIRE PROTECTION SYSTEMS

IBC CHAPTER 9
REFERENCE MEP DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FIRE PROTECTION SYSTEMS

AUTOMATIC SPRINKLER SYSTEM

EXISTING BUILDING:	FULLY SPRINKLERED
ADDITION:	FULLY SPRINKLERED

SIZE AND DISTRIBUTION FOR CLASS A FIRE HAZARDS PER 906.3

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

A = UNIT OF FIRE EXTINGUISHING CAPABILITY
2-A = (2) 1-A
4-A = (2) 2-A = (4) 1-A

MEANS OF EGRESS

IBC CHAPTER 10

OCCUPANT LOAD

REFERENCE OCCUPANT LOAD SCHEDULE

BUILDING AREA	OCCUPANTS
EXISTING BUILDING	145
ADDITION	172
TOTAL	**317**

MEANS OF EGRESS SIZING

REFERENCE LIFE SAFETY PLAN FOR MINIMUM REQUIRED AND PROVIDED SIZING

NUMBER OF PRIMARY EXITS (EXISTING + ADDITION)

MINIMUM EXITS	PROVIDED EXITS
3	4

MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE
REFERENCE LIFE SAFETY PLAN FOR PATHS

OCCUPANCY	WITH SPRINKLER SYSTEM (FT.)
EDUCATIONAL (E)	75

MAXIMUM EXIT ACCESS TRAVEL DISTANCE
REFERENCE LIFE SAFETY PLANS FOR PATHS

OCCUPANCY	WITH SPRINKLER SYSTEM (FT.)
EDUCATIONAL (E)	250

ACCESSIBILITY

REFERENCE A5.0 FOR TYPICAL ACCESSIBILITY REQUIREMENTS

PLUMBING SYSTEMS

IBC CHAPTER 29 / IPC TABLE 403.1

MINIMUM PLUMBING FACILITIES

M = MALE
F = FEMALE
U = UNISEX

BUILDING AREA	OCCUPANTS
EXISTING BUILDING	145
ADDITION	172
TOTAL	**317**

EDUCATIONAL

WATER CLOSETS (TOILETS):	1 PER 50 OCCUPANTS
LAVATORIES (SINKS):	1 PER 50 OCCUPANTS
DRINKING FOUNTAIN:	1 PER 100 OCCUPANTS
SERVICE SINK:	1 PER BUILDING

WATER CLOSETS:

CLASSIFICATION	REQUIRED	PROVIDED
EDUCATIONAL	7	M: 3 F: 3 U: 2

LAVATORIES:

CLASSIFICATION	REQUIRED	PROVIDED
EDUCATIONAL	7	M: 3 F: 3 U: 2

DRINKING FOUNTAINS:

CLASSIFICATION	REQUIRED	PROVIDED
EDUCATIONAL	4	4

SERVICE SINK:

CLASSIFICATION	REQUIRED	PROVIDED
EDUCATIONAL	1	1

OCCUPANT LOAD SCHEDULE (IBC 1004.5)

EXISTING OR ADDITION	ROOM NO.	ROOM NAME	FUNCTION OF SPACE	AREA	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
EXISTING	400	CORRIDOR	(none)	968 SF	0	
EXISTING	400A	WORKROOM	Business areas (gross)	128 SF	150	1
EXISTING	400B	WORKROOM	Business areas (gross)	175 SF	150	2
EXISTING	402	HEADMASTER OFFICE	Business areas (gross)	263 SF	150	2
EXISTING	403	OFFICE	Business areas (gross)	124 SF	150	1
EXISTING	404	OFFICE	Business areas (gross)	124 SF	150	1
EXISTING	405	OFFICE	Business areas (gross)	111 SF	150	1
EXISTING	406	ELECTRICAL	Accessory storage ares, mechanical equipment room (gross)	97 SF	300	1
EXISTING	407A	DRY ROOM	Accessory storage ares, mechanical equipment room (gross)	58 SF	300	1
EXISTING	407B	KILN	Educational, Shops and other vocational room areas (net)	55 SF	50	2
EXISTING	408	ART ROOM	Educational, Shops and other vocational room areas (net)	980 SF	50	20
EXISTING	409	CHEMISTRY	Educational, Shops and other vocational room areas (net)	962 SF	50	20
EXISTING	410	WORKROOM	Educational, Shops and other vocational room areas (net)	239 SF	50	5
EXISTING	411	BIOLOGY	Educational, Classroom area (net)	974 SF	20	49
EXISTING	412	MEN	(none)	183 SF	0	
EXISTING	413	WOMEN	(none)	183 SF	0	
EXISTING	415	JAN.	Accessory storage ares, mechanical equipment room (gross)	49 SF	300	1
EXISTING	416	RR	(none)	51 SF	0	
EXISTING	418A	LOBBY CIRCULATION	(none)	409 SF	0	
EXISTING	418B	LOBBY SEATING	Assembly without fixed seats, Unconcentrated (tables and chairs) (net)	439 SF	15	30
EXISTING	418C	FRONT DESK	Business areas (gross)	118 SF	150	1
EXISTING	420	LIBRARY	Business areas (gross)	420 SF	150	3
EXISTING	431	OFFICE	Business areas (gross)	122 SF	150	1
EXISTING	432	RISER	Accessory storage ares, mechanical equipment room (gross)	26 SF	300	1
EXISTING	433	CONTROL ROOM	Accessory storage ares, mechanical equipment room (gross)	109 SF	300	1
EXISTING	435	SOUTH FOYER	(none)	71 SF	0	
EXISTING	436	NORTH FOYER	(none)	99 SF	0	
EXISTING	437	STORAGE	Accessory storage ares, mechanical equipment room (gross)	57 SF	300	1
ADDITION	450	CORRIDOR	(none)	629 SF	15	42
ADDITION	450A	CORRIDOR SEATING	Assembly without fixed seats, Unconcentrated (tables and chairs) (net)	209 SF	15	14
ADDITION	450B	CORRIDOR SEATING	Assembly without fixed seats, Unconcentrated (tables and chairs) (net)	187 SF	15	13
ADDITION	451	CORRIDOR	(none)	279 SF	0	
ADDITION	452	VESTIBULE	(none)	62 SF	0	
ADDITION	454	CORRIDOR	(none)	141 SF	0	
ADDITION	455	ART CLASSROOM	Educational, Shops and other vocational room areas (net)	1,118 SF	50	23
ADDITION	457	ART STORAGE	Accessory storage ares, mechanical equipment room (gross)	250 SF	300	1
ADDITION	459	KILN	Accessory storage ares, mechanical equipment room (gross)	110 SF	300	1
ADDITION	460	MAKER SPACE	Educational, Shops and other vocational room areas (net)	1,087 SF	50	22
ADDITION	462	ELECTRICAL	Accessory storage ares, mechanical equipment room (gross)	87 SF	300	1
ADDITION	464	GENERAL STORAGE	Accessory storage ares, mechanical equipment room (gross)	237 SF	300	1
ADDITION	465	CHEMISTRY LAB	Educational, Shops and other vocational room areas (net)	1,190 SF	50	24
ADDITION	466	RR	(none)	56 SF	0	
ADDITION	468	LAB PREP	Educational, Shops and other vocational room areas (net)	273 SF	50	6
ADDITION	470	BIOLOGY LAB	Educational, Shops and other vocational room areas (net)	1,183 SF	50	24
	419	CORRIDOR	(none)	255 SF		
TOTAL				14,945 SF		317

BUILDING ENVELOPE REQUIREMENTS

IECC SECTION C301
CLIMATE ZONE 3A

IECC SECTION C402
THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS, R-VALUE METHOD

NR = NO REQUIREMENT
NA = NOT APPLICABLE

	REQUIRED	PROVIDED (TYP.)
ROOFS		
ABOVE ROOF DECK	R-25	R-25.5
WALLS ABOVE GRADE		
METAL FRAMES	R-13 + R-7.5 CI	R-19 + R-8.6ci
WALLS BELOW GRADE		
BELOW GRADE WALL	NR	NA
FLOORS		
MASS	NR	NA

BUILDING ENVELOPE FENESTRATION THERMAL & SOLAR REQUIREMENTS

VERTICAL FENESTRATION	REQUIRED	PROVIDED (TYP.)
U-FACTOR (WINTER DAYTIME)		
FIXED	U-0.42 MAX.	U-0.29
OPERABLE	U-0.54 MAX.	
ENTRANCE DOORS	U-0.68 MAX.	
SHGC		
FIXED		0.23
PF < 0.2	0.25 MAX.	
0.2 < PF < 0.5	0.30 MAX.	
PF > 0.5	0.40 MAX.	
OPERABLE		0.23
PF < 0.2	0.23 MAX.	
0.2 < PF < 0.5	0.28 MAX.	
PF > 0.5	0.37 MAX.	
SHADING COEFFICIENT	NR	0.27
VISIBLE TRANSMITTANCE		
FIXED	27.5% MIN.	51%
OPERABLE	27.5% MIN.	51%
SOLAR TRANSMITTANCE	40% MAX.	19%

ISSUE FOR PROPOSALS

REGISTERED ARCHITECT · ANNE HILDEBRAND · 18243 · STATE OF TEXAS
1/20/2026

BRWARCHITECTS
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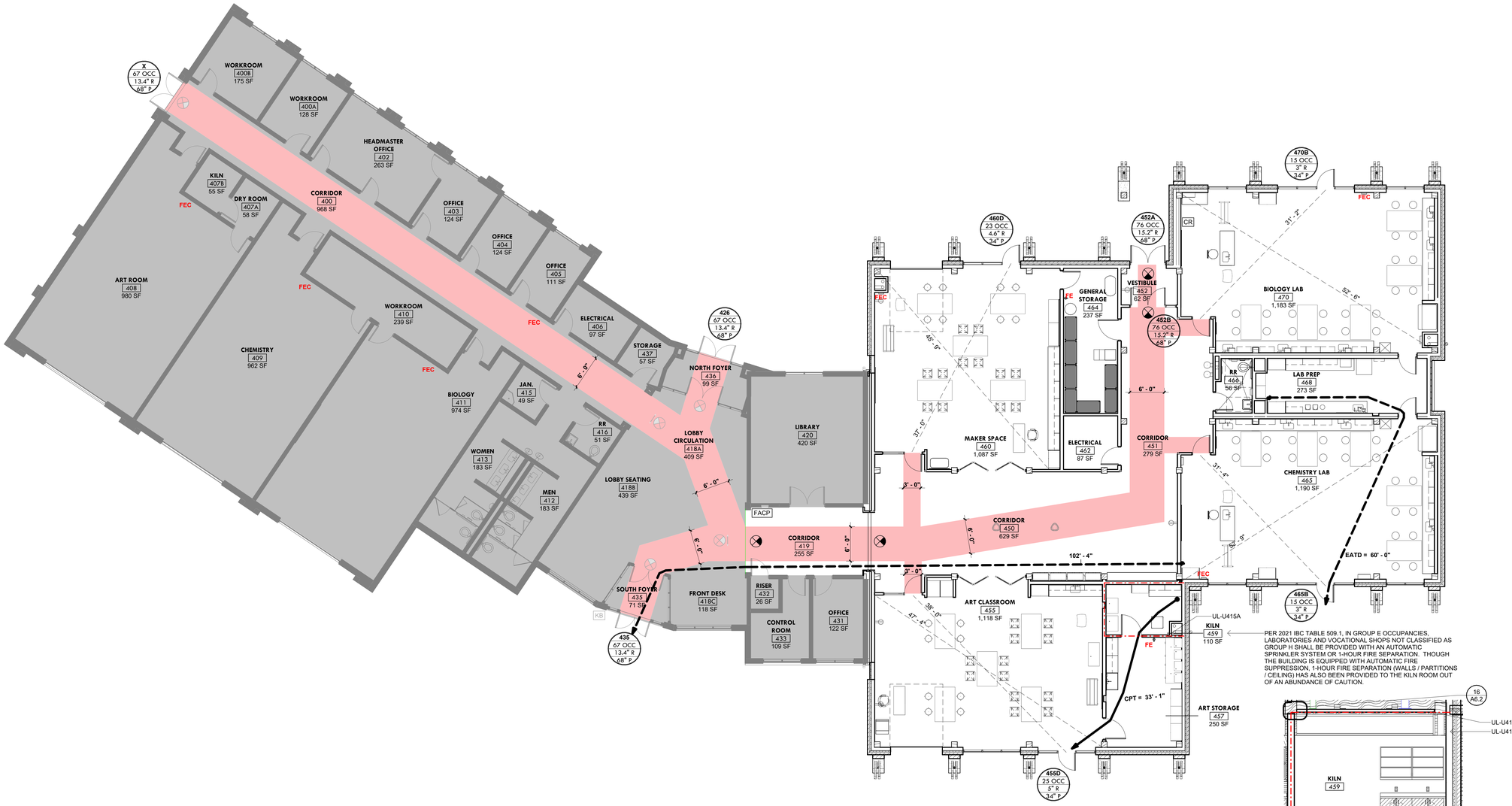
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BRW PROJECT NUMBER 225057.00

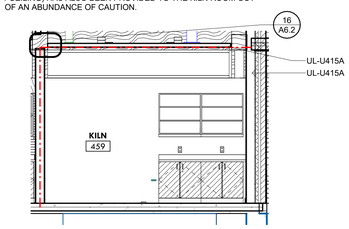
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2400 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

G1.3
CODE COMPLIANCE INFORMATION



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



2 SECTION @ KILN ROOM
1/4" = 1'-0"

PER 2021 IBC TABLE 509.1, IN GROUP E OCCUPANCIES, LABORATORIES AND VOCATIONAL SHOPS NOT CLASSIFIED AS GROUP H SHALL BE PROVIDED WITH AN AUTOMATIC SPRINKLER SYSTEM OR 1-HOUR FIRE SEPARATION. THOUGH THE BUILDING IS EQUIPPED WITH AUTOMATIC FIRE SUPPRESSION, 1-HOUR FIRE SEPARATION (WALLS / PARTITIONS / CEILING) HAS ALSO BEEN PROVIDED TO THE KILN ROOM OUT OF AN ABUNDANCE OF CAUTION.

LIFE SAFETY LEGEND

PATTERN	DESCRIPTION
	EXISTING BUILDING NO RENOVATION SCOPE
	1 HOUR FIRE RATED CONSTRUCTION
	PATH OF EGRESS
	COMMON PATH OF TRAVEL (CP)
	EXIT ACCESS TRAVEL DISTANCE (TD)
	ILLUMINATED EXIT SIGN (RE: ELECTRICAL)
FE	FIRE EXTINGUISHER AND WALL BRACKET CLASS ABC, U.N.O.
FEC	FIRE EXTINGUISHER AND SEMI-RECESSED CABINET CLASS ABC, U.N.O.
FACP	FIRE ALARM CONTROL PANEL
KB	LOCKBOX FOR FIRE DEPARTMENT KEY ACCESS (KNOX BOX)
101 / 100 OCC / 20" R / 34" P	EGRESS WIDTH AT DOORS DOOR NUMBER OCCUPANT LOAD AT EXIT EXIT WIDTH REQUIRED EXIT WIDTH PROVIDED

AREA TABULATION

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

PLAN NORTH / TRUE NORTH

ISSUE FOR PROPOSALS

REGISTERED ARCHITECT
ANNE HILDENBRAND
18243
STATE OF TEXAS
1/20/2026

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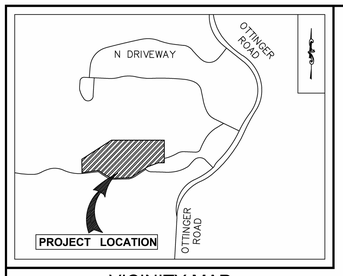
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DATE JANUARY 20, 2026
DRAWN BY MCR, JCP
CHECKED BY RVH, AIH
BRW PROJECT NUMBER 225057.00

WESTLAKE ACADEMY
ARTS & SCIENCES ADDITION
2600 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

G1.4
LIFE SAFETY PLAN



VICINITY MAP
(NOT TO SCALE)

LINETYPES

- ASPHALT
- PAVEMENT
- GAS LINE
- HAND RAIL
- BARBED WOOD FENCE
- BUILDING
- WALL
- PARKING LINE

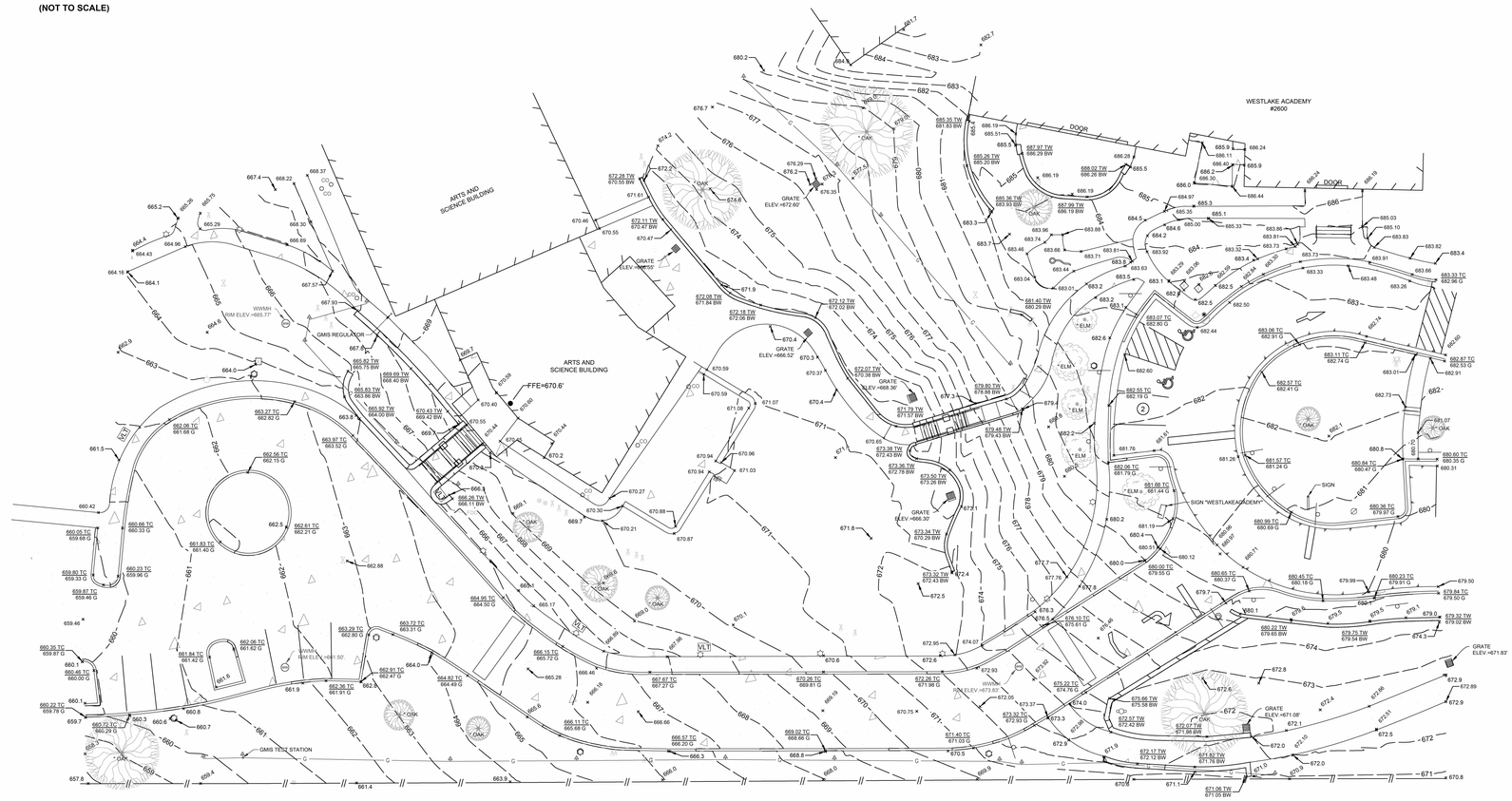
ABBREVIATIONS

IRF	IRON ROD FOUND
FFE	FINISHED FLOOR ELEVATION
ELEV.	ELEVATION
XXX.X	SPOT ELEVATION
NG	NATURAL GROUND
TC	TOP CURB
G	GUTTER
TW	TOP OF WALL
BW	BOTTOM OF WALL
ICV	IRRIGATION CONTROL VALVE
WWMH	WASTE WATER MANHOLE
FDC	FIRE DEPARTMENT CONNECTION

LEGEND

- LIGHT
- POLE
- ELECTRIC BOX
- ELECTRIC VAULT
- GAS METER
- GAS MARKER
- WASTEWATER MANHOLE
- WASTEWATER CLEANOUT
- STORM DRAIN INLET
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- BOLLARD
- SIGN
- HANDICAP PARKING
- TREE

GRAPHIC SCALE
20' 0 10' 20'
1 inch = 20 feet



URBAN STRATEGY
1100 E. Campbell Road, Suite 210, Richardson, Texas 75081
Firm Registration #10194610, 214.396.2339
www.urbanstrategy.us

TOPOGRAPHIC SURVEY

LOT 1A, BLOCK 1
24.581 ACRES
WESTLAKE MUNICIPAL COMPLEX ADDITION
IN THE TOWN OF WESTLAKE, TARRANT COUNTY, TEXAS
RECORDED IN INST. NO. D203439337
CURRENT ZONING: GU "GOVERNMENT USE"

ISSUE DATE: 01/20/2026 | PROJECT NO.: 254010 | SCALE: 1 inch = 20 ft. | PAGE 1 OF 1

SURVEYOR
TYLER ATTEBURY, RPLS
TEXAS LICENSE NO 7204
URBAN STRATEGY
4222 MAIN ST.
DALLAS, TX 75226
214-396-2339
TYLERA@URBANSTRATEGY.US
TBPLS FIRM NO. 10194610

DEVELOPER/ OWNER
TOWN OF WESTLAKE
3 VILLAGE CIRCLE, SUITE 207
WESTLAKE, TX 76262

Texas 811

PRELIMINARY, THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT.

SITE INFORMATION

THIS SURVEY IS FOR INFORMATION ONLY.
INFORMATION ABOUT THE SITE WAS TAKEN FROM PLANS PREPARED BY ***URBAN STRATEGY***. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING INFORMATION AND CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFYING ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF EXISTING AND NEW UTILITIES.

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ARTS & SCIENCES ADDITION
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NO.	REVISION	DATE

C0.1
BOUNDARY AND TOPOGRAPHIC SURVEY

FILE NAME: K:\ES-254017.DWG
FILE LOCATION: P:\Projects\2025\254010 Westlake Academy BRW\Correspondence Sent\Architect\2026-01-16 Survey Document\K-ES 254017.dwg
LAST MODIFIED BY: tattebury
PLOTTED ON: 1/16/2026 1:14 PM



1 PHASING PLAN

1" = 40'-0"

PHASING LEGEND

PATTERN	DESCRIPTION
	ARTS & SCIENCES - ADDITION
	ARTS & SCIENCES - EXISTING
	EXISTING SITE CONDITIONS
	PROPOSED CONTRACTOR STAGING & JOB TRAILER NOTE: RESTORE GROUNDCOVER AND PAVING AFTER CONSTRUCTION
	STUDENT & FACULTY PARKING NOTE: USE BY CONTRACTOR IS RESTRICTED, UNLESS COORDINATED WITH OWNER IN ADVANCE
	CONSTRUCTION ACCESS
	STUDENT ACCESS TO EXISTING ARTS & SCIENCE BUILDING MUST BE MAINTAINED
	TEMPORARY PARTITION NOTE: CONTRACTOR TO COORDINATE WITH OWNER AND INSTALL AS NECESSARY. PARTITION TO STAY IN PLACE UNTIL SUMMER OF 2027.

PHASING NOTES

1. GENERAL CONTRACTORS WILL BE AUTHORIZED TO MOBILIZE AT A LOCATION OF CHOICE, OR PROPOSED LOCATION AFTER CONSULTING WITH THE OWNER'S AUTHORIZED REPRESENTATIVE(S). PRIOR TO MOBILIZATION, IT IS RECOMMENDED THAT THE GC SURVEYS, AUDITS, AND DOCUMENTS THE EXISTING CONDITIONS OF ALL POSSIBLE AREAS TO BE MOBILIZED. THE GC'S PROPOSED LAYDOWN AREA WILL BE REVIEWED TO ENSURE THAT IT:
   A. DOES NOT DISRUPT SCHOOL OPERATIONS
   B. DOES NOT IMPACT THE FLOW OF VEHICULAR OR PEDESTRIAN TRAFFIC
   C. DOES NOT CREATE A HAZARD TO THE NATURAL ENVIRONMENT
   D. DOES NOT DAMAGE LOCAL AND/OR NEIGHBORING FACILITIES INCLUDING LOCAL SITE OR ROADWAY STRUCTURES.
2. IN THE EVENT THAT A CONSTRUCTION SITE OFFERS LIMITED OR NO REAL ESTATE AVAILABLE FOR THE CONTRACTOR TO MOBILIZE, THE GC MAY COORDINATE (AT NO COST TO THE OWNER, AND NO NEGATIVE SCHEDULE IMPACT TO THE PROJECT) TO HAVE A LAYDOWN AREA AT AN ADJACENT OR NEIGHBORING PROPERTY; THIS MAY INCLUDE ANOTHER PUBLIC, COMMERCIAL, OR PRIVATE AGREEMENT FOR THE USE OF THE SELECTED PROPERTY. IN SUCH AN EVENT, THE GC IS REQUIRED TO INFORM AND CONTINUALLY UPDATE THE AUTHORIZED OWNER REPRESENTATIVE(S) OF ANY OFF-SITE AGREEMENT CHANGES DURING THE LIFETIME OF THE PROJECT.
3. AT ALL TIMES DURING CONSTRUCTION, THE GC WILL BE RESPONSIBLE FOR COSTS ASSOCIATED WITH BUILDING AND/OR MAINTAINING A LAYDOWN AREA THAT IS OF SATISFACTION TO THE OWNER. EXPENSES INCLUDE BUT ARE NOT EXPLICITLY LIMITED TO:
   A. FENCING
   B. TEMPORARY PAVEMENT / ROADWAY
   C. PUBLIC AND PRIVATE INFRASTRUCTURE WORK NECESSITATED FROM SAID ACTIVITY AND OCCUPANCY
   D. DRAINAGE WORK TO ACCOMMODATE THE GC'S LOCATION
   E. GRADING
   F. REGRADING
4. THE GC UNDERSTANDS THAT, AT THE OWNER'S DISCREPANCY, MODIFICATIONS OR CHANGES TO EXISTING LAYDOWN LOCATION MAY BE REQUIRED TO ADAPT TO OUTSIDE FACTOR(S), I.E., WEATHER EVENTS, SCHOOL ACTIVITIES, ETC. SUCH CHANGES, IF NEEDED, WILL BE PROMPTLY IMPLEMENTED BY THE GC UPON WRITTEN COMMUNICATION FROM THE OWNER OR OWNER'S REPRESENTATIVE(S). ANY COST ASSOCIATED WITH SUCH CHANGE IS TO BE INCURRED DIRECTLY BY THE GC. AT SUBSTANTIAL COMPLETION, THE GC WILL (AT NO COST TO THE OWNER) RETURN THE AREA(S) TO THE ORIGINAL OR IMPROVED CONDITIONS.
5. PROVIDE TEMPORARY CONSTRUCTION FENCING TO SEPARATE CONSTRUCTION ACTIVITY FROM STUDENTS AND STAFF.

ISSUE FOR PROPOSALS

REGISTERED ARCHITECT · ANNE HILDENBRAND · 18243 · STATE OF TEXAS

1/20/2026

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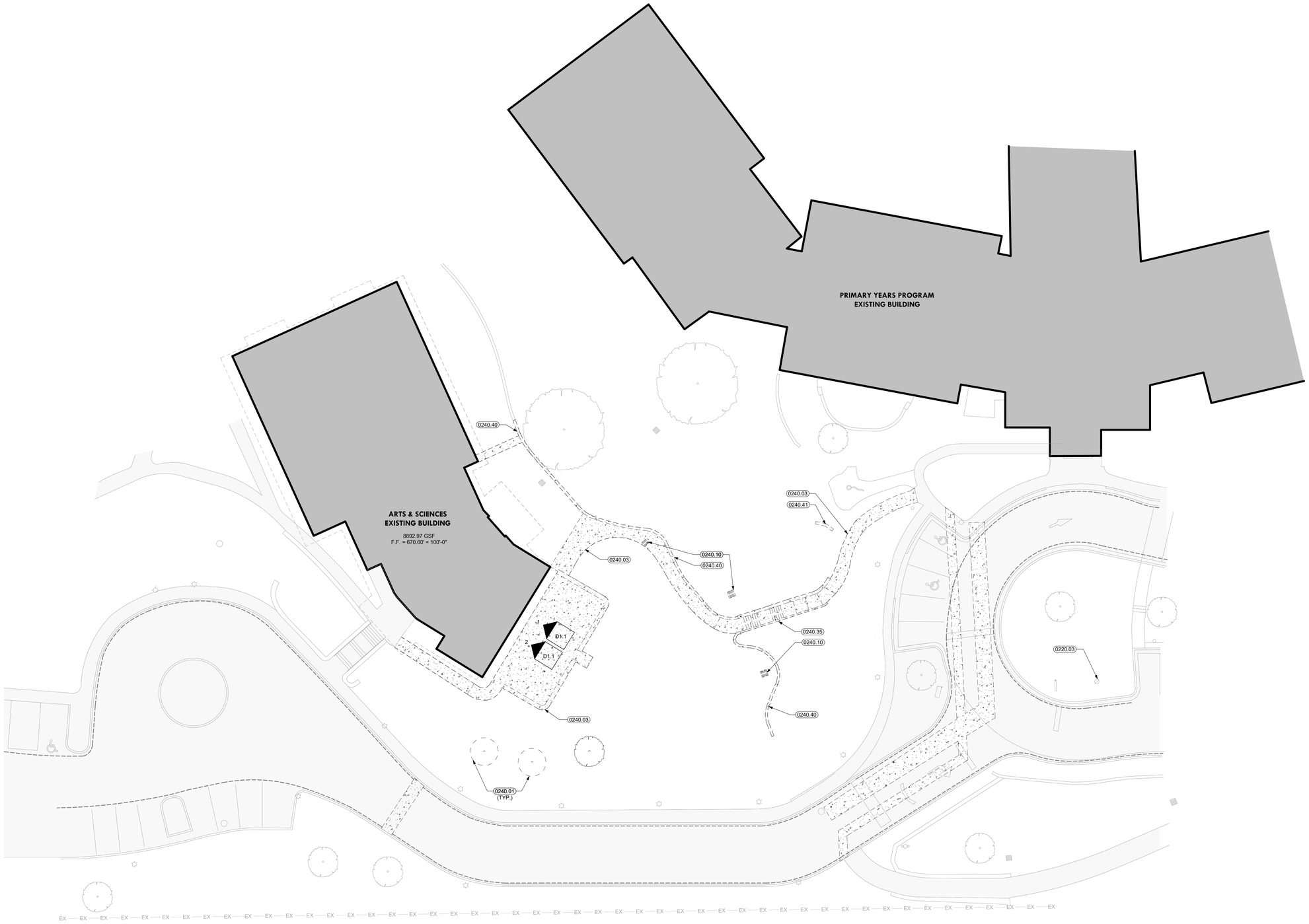
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AS0.1

PHASING PLAN

KEYNOTES

0220.03	EXISTING POWER POLE
0240.01	REMOVE EXISTING TREE (RE: LANDSCAPE)
0240.03	SAWCUT AND REMOVE EXISTING CONCRETE PAVING (RE: CIVIL)
0240.10	REMOVE EXISTING GRATE INLET (RE: CIVIL)
0240.35	REMOVE EXISTING CONCRETE STEPS (RE: CIVIL)
0240.40	REMOVE EXISTING RETAINING WALL (RE: CIVIL)
0240.41	CAREFULLY SAWCUT AND CLEANLY REMOVE EXTERIOR CAST STONE TO ALLOW FOR 1" CLEAR FOR E.J.


PRIMARY YEARS PROGRAM
EXISTING BUILDING
ARTS & SCIENCES
EXISTING BUILDING
8892.97 GSF
F.F. = 670.60' = 100'-0"
0240.40
0240.03
0240.10
0240.40
0240.03
0240.41
0240.10
0240.35
0240.10
0240.40
0240.03
0240.01
(TYP.)
D1.1
D1.1
0220.03
EX EX EX



PLAN NORTH TRUE NORTH

1 ARCHITECTURAL SITE PLAN

1/16" = 1'-0"

KEYNOTES

0220.01	EXISTING TREE
0220.02	EXISTING LIGHT POLE
0220.03	EXISTING POWER POLE
0220.10	EXISTING FIRE HYDRANT
0220.13	EXISTING GAS METER
0220.14	EXISTING MANHOLE COVER
0220.15	EXISTING GRATE INLET
0220.43	EXISTING ROOFING SYSTEM
3210.14	CONCRETE PAVING (RE: CIVIL)
3210.39	MEDIUM BROOM FINISH CONCRETE (RE: LANDSCAPE)
3210.40	SANDBLASTED CONCRETE (RE: LANDSCAPE)
3230.52	MASONRY RETAINING WALL (RE: CIVIL / LANDSCAPE)
3230.63	REINSTALLED EXISTING SIGNAGE
3290.01	LANDSCAPE BED (RE: LANDSCAPE)
3340.04	AREA DRAIN INLET (RE: CIVIL)

SITE LEGEND

PATTERN	DESCRIPTION
	FIRE LANE STRIPING
EX EX	EXISTING FENCING
	BUILDING
	NEW CONSTRUCTION
	EXISTING BUILDING
	ROOF EDGE ABOVE
	PAVING
	CONCRETE PAVING (RE: CIVIL & LANDSCAPE)
	CONCRETE PAVEMENT REPLACEMENT (RE: CIVIL)
	LANDSCAPE (RE: LANDSCAPE)
	LANDSCAPE PLANTINGS
	SOD
	EXISTING TREE
	NEW TREE

SITE DESIGN INFORMATION

ARTS & SCIENCES BLDG. EXISTING FLOOR AREA: 8,892.97 GSF
ARTS & SCIENCES BLDG. ADDITION FLOOR AREA: 7,884.48 GSF
TOTAL: 16,777.45 GSF

MINIMUM FIRE LANE WIDTH PER IFC 503.2.1:
- 24'

CAMPUS AUTOMOBILE SPACES REQUIRED BASED ON CURRENT 888 STUDENT ENROLLMENT FOR ENTIRE CAMPUS:
- K-5 351 / 25 = 15
- 6-8 227 / 18 = 13
- 9-12 310 / 5 = 62

TOTAL REQUIRED AUTOMOBILE SPACES BASED ON CURRENT 888 STUDENT ENROLLMENT:
- 90

CAMPUS AUTOMOBILE SPACES REQUIRED BASED ON POTENTIAL 1200 STUDENT ENROLLMENT FOR ENTIRE CAMPUS:
- K-5 474 / 25 = 19
- 6-8 306 / 18 = 17
- 9-12 420 / 5 = 84

TOTAL REQUIRED BASED ON POTENTIAL 1200 STUDENT ENROLLMENT:
- 120

AUTOMOBILE SPACES PROVIDED:
- CAMPUS TOTAL: 283
- NEAR ADDITION: 158

CAMPUS ACCESSIBLE SPACES REQUIRED PER TEXAS ACC. STANDARDS:
- 201 - 300 SPACES: 7 ACCESSIBLE

ACCESSIBLE SPACES PROVIDED:
- CAMPUS TOTAL: 12
- NEAR ADDITION: 6

BICYCLE PARKING SPACES REQUIRED PER TOWN OF WESTLAKE:
- NO REQUIREMENT

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REGISTERED ARCHITECT ANNE HILDEBRAND 18243 STATE OF TEXAS
1/20/2026

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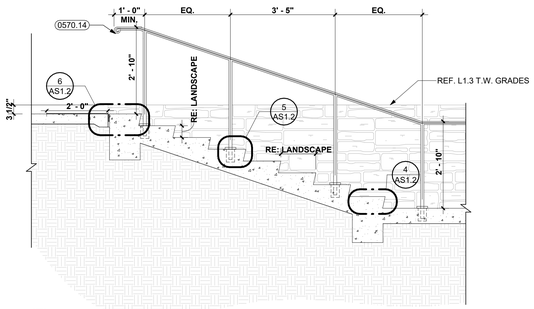
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ARTS & SCIENCES ADDITION
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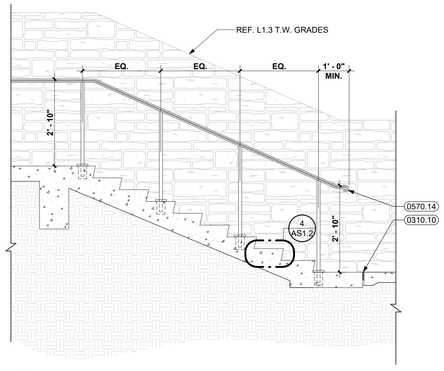
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AS1.1
ARCHITECTURAL SITE PLAN



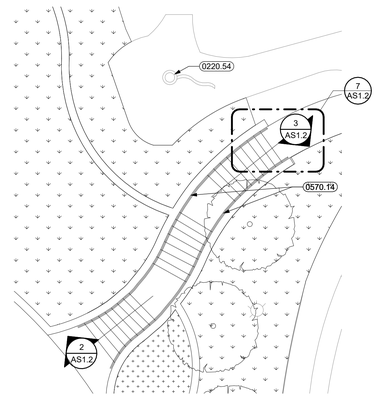
NOTES:
1. HORIZONTAL RAILS TO BE PARALLEL WITH SLOPE OF CONCRETE.
2. PROVIDE WEEP HOLES AT TOP AND BOTTOM OF ALL TUBE RAILS.
3. MATCH EXISTING RAILING PROFILE.

3 SITE SECTION - STAIR
1/2" = 1'-0"



NOTES:
1. HORIZONTAL RAILS TO BE PARALLEL WITH SLOPE OF CONCRETE.
2. PROVIDE WEEP HOLES AT TOP AND BOTTOM OF ALL TUBE RAILS.
3. MATCH EXISTING RAILING PROFILE

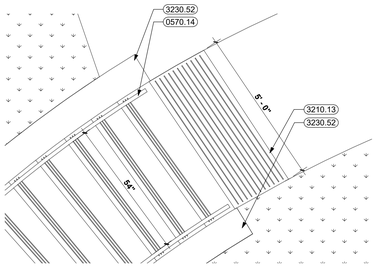
2 SITE SECTION - STAIR
1/2" = 1'-0"



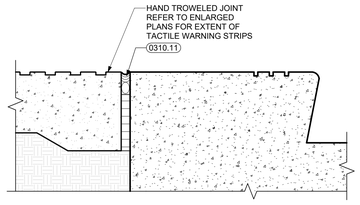
1 ENLARGED SITE PLAN - STAIR
1/8" = 1'-0"

KEYNOTES

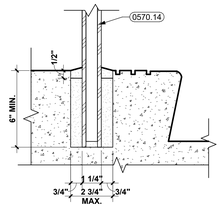
0220.54	EXISTING FLAGPOLE
0310.10	CONCRETE EXPANSION JOINT, FILL WITH SEALANT TO WITHIN 1/4" OF SURFACE
0310.11	EXPANSION JOINT PREMOLDED EXPANSION FILLER
0570.14	DECORATIVE STEEL HANDRAIL SYSTEM, PAINTED TO MATCH EXISTING
3210.13	1/8" GROOVES AT 2" O.C.
3210.41	CONCRETE STAIR (RE: LANDSCAPE)
3230.52	MASONRY RETAINING WALL (RE: CIVIL / LANDSCAPE)



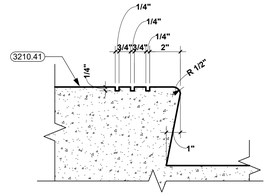
7 DETECTABLE WARNING DETAIL
1/2" = 1'-0"



6 DETECTABLE WARNING DETAIL
3" = 1'-0"



5 RAILING CORING DETAIL
3" = 1'-0"



4 TOOLED STAIR NOSINGS, (TYPICAL)
3" = 1'-0"



8 EXISTING RAILING
1 1/2" = 1'-0"

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ANNIE HILDEBRAND
18243
STATE OF TEXAS
1/20/2026

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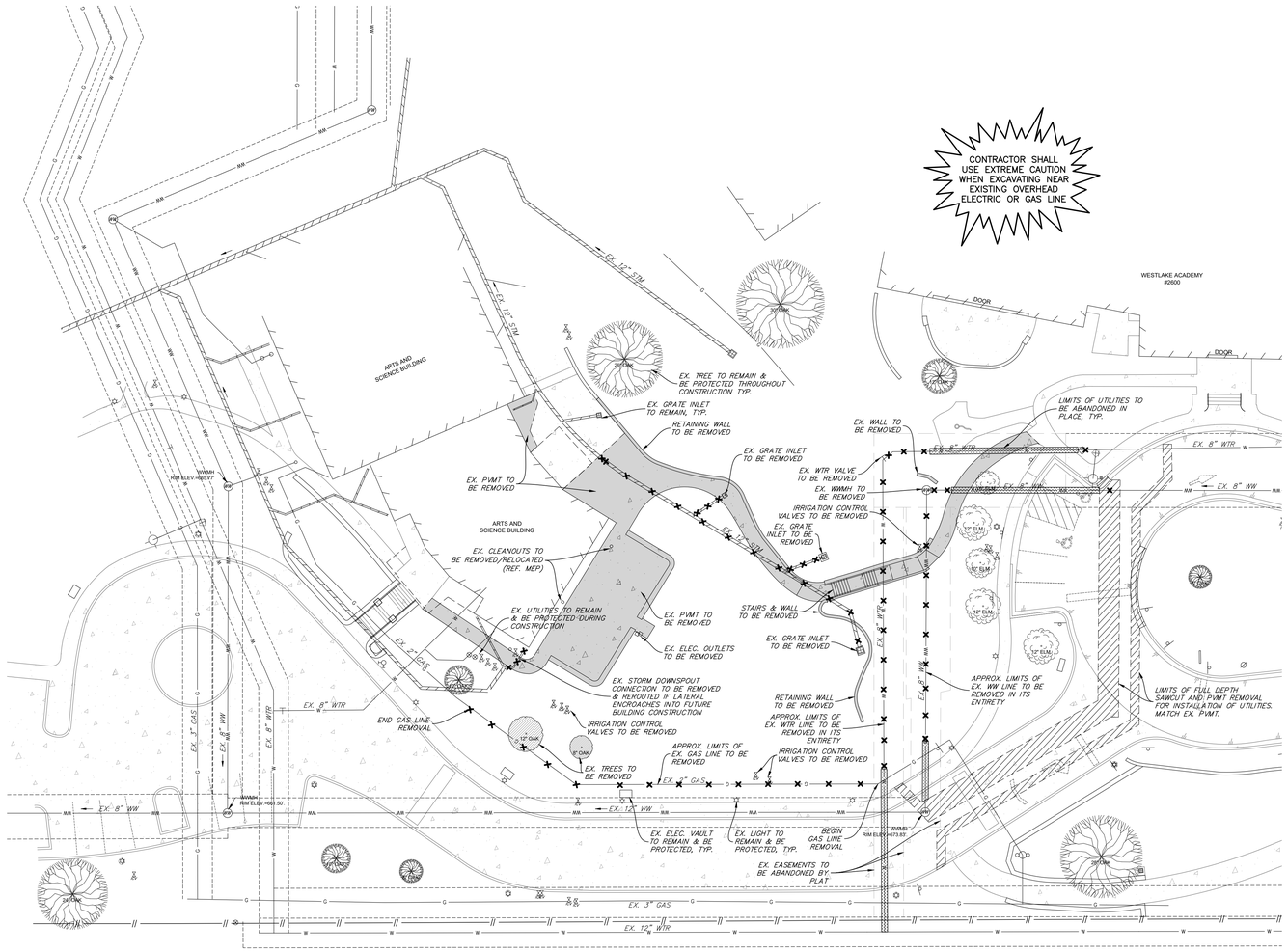
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ARTS & SCIENCES ADDITION
2400 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

AS1.2
ARCHITECTURAL SITE DETAILS



LEGEND

- EX. PAVEMENT TO BE REMOVED FULL DEPTH. (EXTENTS OF PAVEMENT REMOVAL TO BE VERIFIED BY CONTRACTOR AS DICTATED BY FIELD CONDITIONS)
- EX. BUILDING, SLAB, FOUNDATIONS, & APPURTENANCES TO BE REMOVED. (COORDINATE WITH ARCHITECT AND STRUCTURAL ENGINEER)
- LIMITS OF UTILITIES TO BE ABANDONED IN PLACE. CONTRACTOR TO ENSURE ABANDONED UTILITIES BE PROPERLY PRESSURE-GROUTED TO COMPLETELY FILL THE UTILITY (PER GEOTECH RECOMMENDATIONS)
- FULL-DEPTH SAWCUT LINE
- G — EX. GAS LINE
- OHE — EX. OVERHEAD ELECTRIC LINE
- UGT — EX. TELEPHONE LINE
- W — EX. WATER
- WW — EX. WASTEWATER
- EX. STORM DRAINAGE
- OHE — EX. OVERHEAD ELECTRIC TO BE REMOVED/RELOCATED
- WW — EX. WASTEWATER TO BE REMOVED/RELOCATED
- W — EX. WATER TO BE REMOVED/RELOCATED
- EX. STORM DRAINAGE TO BE REMOVED/RELOCATED
- 12" OAK — EX. TREE TO BE REMOVED (REFER TO LANDSCAPE ARCHITECTS PLAN)
- EX. FH — EX. FIRE HYDRANT
- EX. WM — EX. WATER METER
- WW EX. WWMH — EX. WASTEWATER MANHOLE
- W EX. WMH — EX. WATER MANHOLE
- D EX. SDMH — EX. STORM DRAINAGE MANHOLE
- G EX. GMH — EX. GAS MANHOLE

GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

TOCS
1-800-245-4545
txticket@1-call.com

DEMOLITION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION & REMOVAL OF CONCRETE SHOWN TO BE REMOVED SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL & BROUGHT TO GRADE WITH SUITABLE, COMPACTED FILL MATERIAL PER THE GEOTECHNICAL REPORT PROVIDED BY OWNER.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS INVOLVED & IS RESPONSIBLE FOR REMOVING & DUMPING THE DEBRIS IN AN APPROVED, LAWFUL MANNER.
3. THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO THE EXISTING ADJACENT PROPERTIES AT ALL TIMES.
4. SITE IS OCCUPIED BY PAVEMENT, POWER POLES, OVER HEAD ELECTRICAL LINES, & GAS LINES. IT IS CONTRACTORS RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES THAT MAY HAVE UTILITIES ON THE SITE TO GET A DETERMINATION IF ANY UTILITIES EXISTING WILL BE IMPACTED.
5. ALL AREAS WHERE PAVEMENT, STRUCTURE SLABS, FOUNDATIONS, UTILITIES, CONDUITS, &/OR UTILITY STRUCTURES HAVE BEEN REMOVED SHALL BE BACKFILLED WITH SELECT BACKFILL MATERIAL. ALL SELECT BACKFILL MATERIAL SHALL BE PLACED & COMPACTED PER THE REQUIREMENTS OF THE SITE WORK SPECIFICATIONS.
6. CONTRACTOR IS RESPONSIBLE FOR WALKING SITE & DETERMINING EXTENTS OF DEMOLITION WORK PRIOR TO BID DATE. CONTRACTOR TO REFER TO ECS'S ASBESTOS CONTAINING MATERIAL SURVEY PRIOR TO DEMO.
7. PRIOR TO ANY WORK ONSITE, THE CONTRACTOR SHALL CONTACT THE TEXAS ONE CALL SYSTEM — AT 1-800-245-4545. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY REMOVALS WHETHER LOCATED BY THE ONE CALL SYSTEM OR NOT.
8. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH LOCAL AUTHORITIES AND ADJACENT PROPERTY OWNERS ANY NEEDS FOR CONSTRUCTION FENCING.
9. CONTRACTOR SHOULD VERIFY ANY TREE DEMOLITION AND/OR RELOCATIONS WITH LANDSCAPE ARCHITECT OR OWNER PRIOR TO BEGINNING WORK ON SITE.
10. CONTRACTOR TO ONLY REMOVE ON-SITE SIGNAGE.
11. CONTRACTOR TO REMOVE EX. IRRIGATION SYSTEM AND ALL APPURTENANCES.
12. THE SAWCUT LINES SHOWN ARE FOR GENERAL REPRESENTATION ONLY AND MAY VARY DEPENDING ON EXISTING FIELD CONDITIONS OF PAVEMENT JOINTS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION OF UTILITY SERVICES TO THE EXISTING STRUCTURES PRIOR TO DEMOLITION OF THE BUILDINGS. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES.
14. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES.
15. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS IN THE REMOVAL/DEMOLITION OF HAZARDOUS MATERIALS.

Texas811

ISSUE FOR PROPOSALS

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JOHN D. BLACKER 68300 LICENSED PROFESSIONAL ENGINEER
01/20/2026

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TEL: 214-396-2339
www.urbanstrategy.us
1222 Main Street
Dallas, Texas 75226
Firm Registration #F-23152

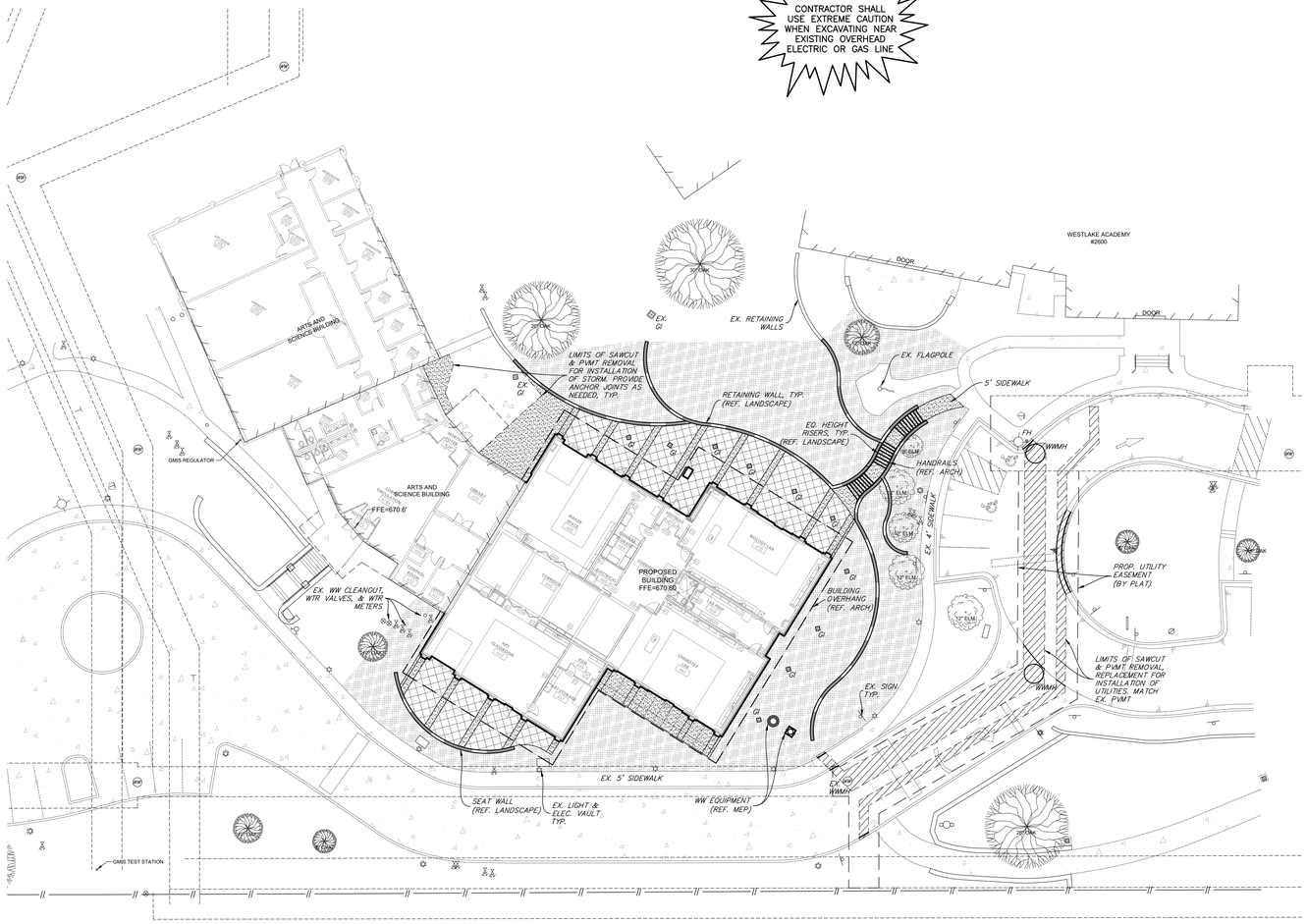
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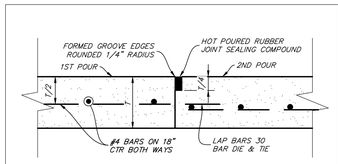
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WESTLAKE ACADEMY ARTS & SCIENCES ADDITION
2600 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

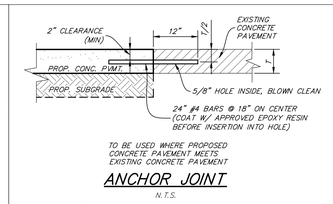
C1.0
DEMOLITION PLAN


CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXCAVATING NEAR EXISTING OVERHEAD ELECTRIC OR GAS LINE
WESTLAKE ACADEMY #2600
ARTS AND SCIENCE BUILDING
ARTS AND SCIENCE BUILDING
FFE=670.6'
GMIS REGULATOR
GMIS TEST STATION
EX. GI
EX. RETAINING WALLS
LIMITS OF SAWCUT & PVMT REMOVAL FOR INSTALLATION OF STORM. PROVIDE ANCHOR JOINTS AS NEEDED, TYP.
RETAINING WALL, TYP. (REF. LANDSCAPE)
ED. HEIGHT RISERS, TYP. (REF. LANDSCAPE)
EX. FLAGPOLE
5' SIDEWALK
HANDRAILS (REF. ARCH)
EX. 4' SIDEWALK
PROPOSED BUILDING FFE=670.66
BUILDING OVERHANG (REF. ARCH)
PROP. UTILITY EASEMENT (BY PLAT)
LIMITS OF SAWCUT & PVMT. REMOVAL, REPLACEMENT FOR INSTALLATION OF UTILITIES. MATCH EX. PVMT.
EX. WW CLEANOUT, WTR VALVES, & WTR METERS
EX. SIGN, TYP.
EX. 5' SIDEWALK
SEAT WALL (REF. LANDSCAPE)
EX. LIGHT & ELEC. VAULT TYP.
WW EQUIPMENT (REF. MEP)
EX. WWMH
WWMH
FH
DOOR
DOOR
DOOR
30" OAK
30" OAK
12" ELM
12" ELM
12" ELM



CONSTRUCTION JOINT

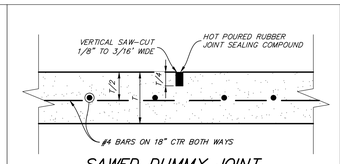
N.T.S.



TO BE USED WHERE PROPOSED CONCRETE PAVEMENT MEETS EXISTING CONCRETE PAVEMENT

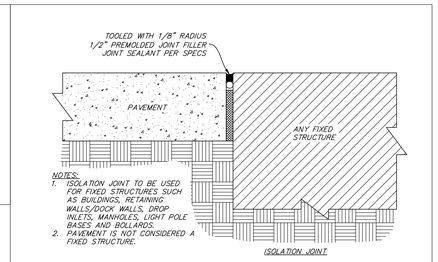
ANCHOR JOINT

N.T.S.



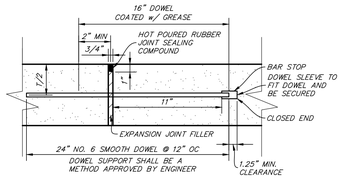
SAWED DUMMY JOINT

N.T.S.



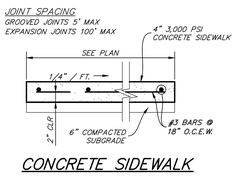
ISOLATION JOINT

N.T.S.



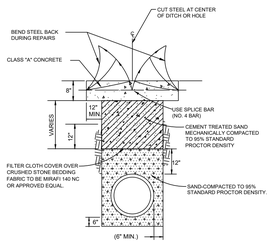
EXPANSION JOINT

N.T.S.



CONCRETE SIDEWALK

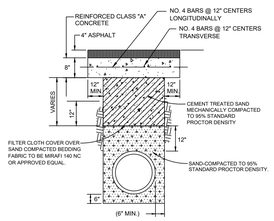
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CONCRETE PAVEMENT

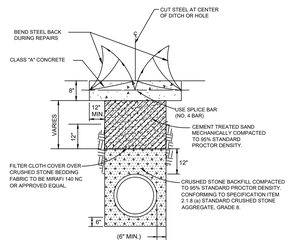
NOTE: PRIOR TO EXCAVATION WITHIN PAVEMENT THE CONTRACTOR WILL SAW CUT AN EVEN LINE TO INSURE A UNIFORM AND EVEN MATCH FOR PAVEMENT REPAIRS.

FULL PANEL REPLACEMENT SHALL BE REQUIRED FOR ANY STREET CUT.



HMAC PAVEMENT

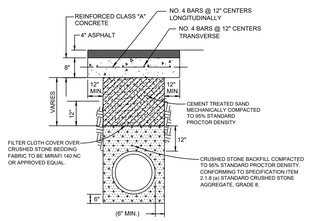
NOTE: PRIOR TO EXCAVATION WITHIN PAVEMENT THE CONTRACTOR WILL SAW CUT AN EVEN LINE TO INSURE A UNIFORM AND EVEN MATCH FOR PAVEMENT REPAIRS.



CONCRETE PAVEMENT

NOTE: PRIOR TO EXCAVATION WITHIN PAVEMENT THE CONTRACTOR WILL SAW CUT AN EVEN LINE TO INSURE A UNIFORM AND EVEN MATCH FOR PAVEMENT REPAIRS.

FULL PANEL REPLACEMENT SHALL BE REQUIRED FOR ANY STREET CUT.



HMAC PAVEMENT

NOTE: PRIOR TO EXCAVATION WITHIN PAVEMENT THE CONTRACTOR WILL SAW CUT AN EVEN LINE TO INSURE A UNIFORM AND EVEN MATCH FOR PAVEMENT REPAIRS.

TYPICAL PAVEMENT REPAIR DETAILS FOR WATER PIPE INSTALLATION

TYPICAL PAVEMENT REPAIR DETAILS FOR SEWER PIPE INSTALLATION

ISSUE FOR PROPOSALS

BRWARCHITECTS
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01/20/2026

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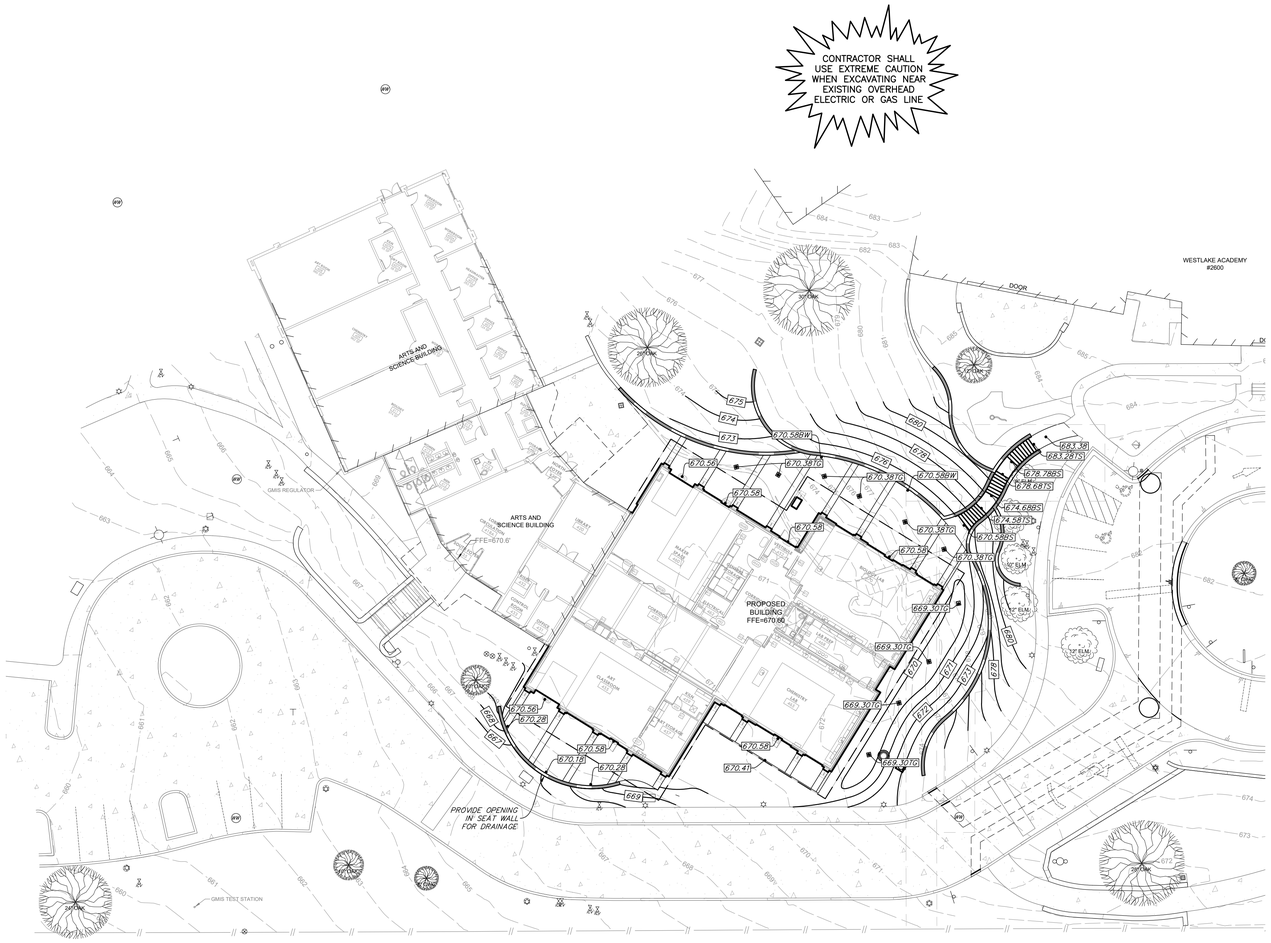
DATE JANUARY 20, 2026
DRAWN BY CMT
CHECKED BY JDB
BRW PROJECT NUMBER 225057.00

WESTLAKE ACADEMY
ARTS & SCIENCES ADDITION
2400 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

C2.1

PAVING DETAILS



LEGEND

PROPERTY LINE	MATCH EXISTING GRADE
SAWCUT PATH	PROPOSED GRADE
EX. CONTOUR	TOP OF CURB GUTTER
CONTOUR	TOP OF WALL
FLOW PATH	BOTTOM OF WALL AT PROPOSED GRADE
RIDGE LINE	TOP OF STAIRS
GRADE BREAK	BOTTOM OF STAIRS
RETAINING WALL	TOP OF GRADE
GRATE INLET	
EX. FIRE HYDRANT	
FIRE HYDRANT	
EX. WASTEWATER MANHOLE	
EX. WATER MANHOLE	
EX. STORM DRAINAGE MANHOLE	
EX. GAS MANHOLE	
WASTEWATER MANHOLE	

GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

TOCS
1-800-245-4545
txticket@1-call.com

GRADING NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE TOWN OF WESTLAKE STANDARDS AND SPECIFICATIONS, AND TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR NORTH CENTRAL TEXAS PREPARED BY THE NORTH TEXAS COUNCIL OF GOVERNMENTS, LATEST EDITION AND THE TOWN OF WESTLAKE ADDENDUM THERETO.
2. THE GEOTECHNICAL REPORT NO. W2533381 BY UES, IS CONSIDERED A PART OF THIS DOCUMENT. THE CONTRACTOR MUST REVIEW IT FOR CONSTRUCTION REQUIREMENTS. IF DIFFERENCES ARE NOTED BETWEEN THESE PLANS AND THE GEOTECHNICAL REPORT, THE REQUIREMENTS OUTLINED IN THE GEOTECHNICAL REPORT WILL GOVERN. THE CONTRACTOR MUST CONTACT THE OWNER, CIVIL ENGINEER, AND GEOTECHNICAL FIRM AND INFORM THEM OF ALL DISCREPANCIES AND PLAN MODIFICATIONS.
3. AREAS AROUND THE PERIMETER OF THE BUILDING SHALL BE GRADED AT A (SLOPE) FOR (DISTANCE) TO ENSURE PROPER DRAINAGE AWAY FROM THE FOUNDATION.
4. THE CONTRACTOR MUST REFER TO THE GEOTECHNICAL REPORT, FOUNDATION PLANS, AND LANDSCAPE PLANS FOR 1) ALL BACKFILL AND COMPACTION REQUIREMENTS, 2) FOUNDATION WATER PROOFING AND 3) UNDERDRAINS AND LANDSCAPE DRAINS AROUND THE PERIMETER OF THE BUILDING.
5. GRADES SHOWN ON THE PLANS AROUND THE PERIMETER OF THE BUILDING ARE FINISHED GRADES AND ARE INCLUSIVE OF BEDDING MATERIAL FOR PROPOSED LANDSCAPE BEDS, TOPSOIL AND SOD FOR LAWN AREAS, AND PAVEMENT.
6. SHOULD THE CONTRACTOR ENCOUNTER ANY UNUSUAL GEOLOGICAL CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, HE MUST NOTIFY THE GEOTECHNICAL ENGINEER FOR SUPPLEMENTAL RECOMMENDATIONS.
7. ALL AREAS TO RECEIVE PAVING SHALL BE STRIPPED TO EFFECTIVELY REMOVE ALL VEGETATION, TOP SOIL, AND DEBRIS, IF PRESENT. DEBRIS SHALL BE DISPOSED OF LEGALLY OFFSITE. TOPSOIL SHALL BE STOCKPILED FOR LANDSCAPING PURPOSES.
8. THE CONTRACTOR SHALL ESTABLISH INTERIOR DRAINAGE SWALES TO REMOVE RAINFALL FROM THE SITE. WATER MUST NOT BE ALLOWED TO POND IN TREE GRUB HOLES. THE SITE SHOULD BE GRADED SUCH THAT POSITIVE SURFACE DRAINAGE AWAY FROM THE WORK AREAS IS ESTABLISHED AND MAINTAINED AT ALL TIMES WATER MUST NOT BE ALLOWED TO POND ON THE SURFACE DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL PROVIDE SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED BY THE TOWN OF WESTLAKE THROUGHOUT THE CONSTRUCTION OF THE PROJECT. FILTER FABRIC FENCES WILL BE PLACED AT THE TOP AND TOE OF SLOPES, IN THE FLOW LINE OF DITCHES AND ALONG THE PERIMETER OF THE PROJECT. EROSION CONTROLS MUST REMAIN UNTIL LANDSCAPING IS COMPLETE AND GROUND COVER IS ESTABLISHED.
10. ALL AREAS THAT WILL RECEIVE FILL SHALL BE PROOF-ROLLED TO IDENTIFY WEAK ZONES. ALL WEAK ZONES MUST BE REMOVED AND REPLACED PRIOR TO FILL PLACEMENT. THE ENTIRE AREA TO RECEIVE FILL SHALL THEN BE SCARIFIED AND RE-COMPACTED AS SPECIFIED IN THE GEOTECHNICAL REPORT.
11. LIMESTONE OR OTHER ROCK-LIKE MATERIALS USED AS FILL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY. NO INDIVIDUAL ROCK PIECES LARGER THAN 4 INCHES IN DIAMETER SHOULD BE USED AS FILL. ADDITIONALLY, NO ROCK FILL SHOULD BE USED WITHIN 1 FT BELOW THE BOTTOM OF FLOOR OR PAVEMENT SLABS.
12. FILL MATERIALS SHOULD BE PLACED IN LOOSE LIFTS, 8 INCHES THICK, AND EACH LIFT COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DEFINED IN ASTM D 698 AT 95 PERCENT OF OPTIMUM MOISTURE CONTENT.EACH LIFT SHOULD BE INSPECTED AND APPROVED BY A QUALIFIED ENGINEERING TECHNICIAN, SUPERVISED BY A GEOTECHNICAL ENGINEER BEFORE ANOTHER LIFT IS ADDED. FILLS DEEPER THAN 10FT SHOULD BE COMPACTED TO AT LEAST 100% OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) AND WITHIN ±2 PERCENTAGE POINTS OF THE MATERIAL'S OPTIMUM MOISTURE CONTENT. PER GEOTECH RECOMMENDATIONS.
13. TESTING IS REQUIRED, AND SHALL BE PERFORMED BY A LABORATORY APPROVED BY THE ENGINEER/OWNER AND PAID FOR BY THE OWNER.
14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT ALL PUBLIC UTILITIES, IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC., MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING.
15. THE CONTRACTOR MUST MEET THE REQUIREMENTS OF THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT NO. TXR 150000, ISSUED ON FEBRUARY 15, 2008. IF THE PROJECT WILL DISTURB MORE THAN 1.0 ACRES OF LAND, THE CONTRACTOR MUST PREPARE OR HAVE PREPARED A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ADHERE TO THE REQUIREMENTS OF THE PLAN.
16. ALL WALLS, INCLUDING FOOTINGS, SHOULD BE LOCATED ENTIRELY WITHIN PRIVATE PROPERTY.

Texas 811

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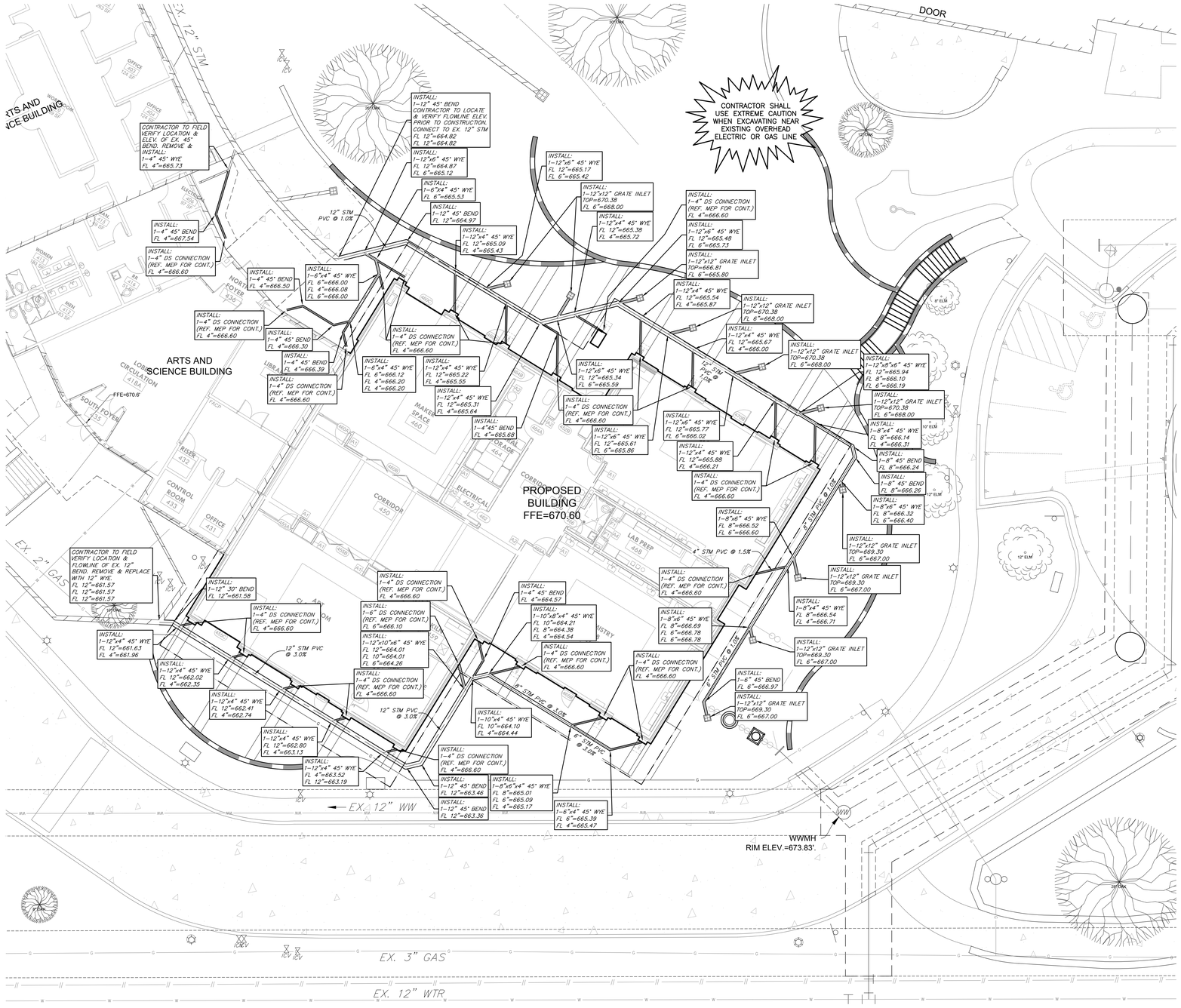
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DATE	JANUARY 20, 2026
DRAWN BY	CMT
CHECKED BY	JDB
BRW PROJECT NUMBER	225057.00

WESTLAKE ACADEMY ARTS & SCIENCES ADDITION
2400 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

C3.0
GRADING PLAN



TOCS
1-800-245-4545
txdicket@1-call.com

GRAPHIC SCALE
10 0 5 10
(IN FEET)
1 inch = 10 ft.

LEGEND

- PROPERTY LINE
- SAWCUT PATH
- EX. GAS LINE
- EX. OVERHEAD ELECTRIC LINE
- EX. UNDERGROUND ELECTRIC LINE
- EX. TELEPHONE LINE
- EX. WATER LINE
- EX. WASTEWATER LINE
- EX. STORM DRAINAGE LINE
- STORM DRAINAGE LINE
- WATER LINE
- WASTEWATER LINE
- RETAINING WALL
- GAS LINE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND TELEPHONE LINE
- EX. WASTEWATER MANHOLE
- EX. WATER MANHOLE
- EX. STORM DRAINAGE MANHOLE
- EX. GAS MANHOLE
- EX. FH — EX. FIRE HYDRANT
- GI — GRATE INLET
- WASTEWATER MANHOLE
- GAS METER
- FDC — FIRE DEPARTMENT CONNECTION

STORM SEWER NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE TOWN OF WESTLAKE STANDARDS AND SPECIFICATIONS, AND TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR NORTH CENTRAL TEXAS PREPARED BY THE NORTH TEXAS COUNCIL OF GOVERNMENTS, LATEST EDITION AND THE TOWN OF WESTLAKE ADDENDUM THERETO.
2. ADEQUATE DRAINAGE DURING CONSTRUCTION SHALL BE PROVIDED & MAINTAINED TO CONTROL SURFACE RUNOFF.
3. PRECAST STRUCTURES MAY BE USED AT CONTRACTOR'S OPTION.
4. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.
5. EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
6. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
7. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING AND COVERS. LIDS SHALL BE LABELED "STORM SEWER."
8. ALL PIPES AND STRUCTURES IN STREET RIGHT-OF-WAY, OR EASEMENTS SHALL BE PER THE CITY STANDARDS AND SPECIFICATIONS.
9. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE EPA OR THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT NO. TXR 150000 FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES FOR THE PROJECT.
10. ALL STORM STRUCTURES SHALL HAVE A SMOOTH, UNIFORM, POURED MORTAR INVERT FROM INVERT-IN TO INVERT-OUT.
11. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
12. REFER TO LANDSCAPE PLANS FOR ALL AREA DRAINS WITHIN COURTYARDS/DOG RUNS/LANDSCAPE AREAS FOR SPECIFICATIONS & ELEVATIONS.
13. ALL STORM LATERALS SHALL BE 6" PVC & SLOPED AT 1% MIN, UNLESS OTHERWISE NOTED ON THIS SHEET.
14. ADD RISERS TO STORM INLETS AS NEEDED TO ACHIEVE FINAL GRADE.
15. ALL STORM DRAIN LINES MUST BE VIDEOED BY THE CONTRACTOR AFTER THE PAVING WORK ABOVE THE PIPE IS COMPLETE. PLEASE CONFIRM THAT THERE IS ADEQUATE ACCESS.

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BRWARCH.COM

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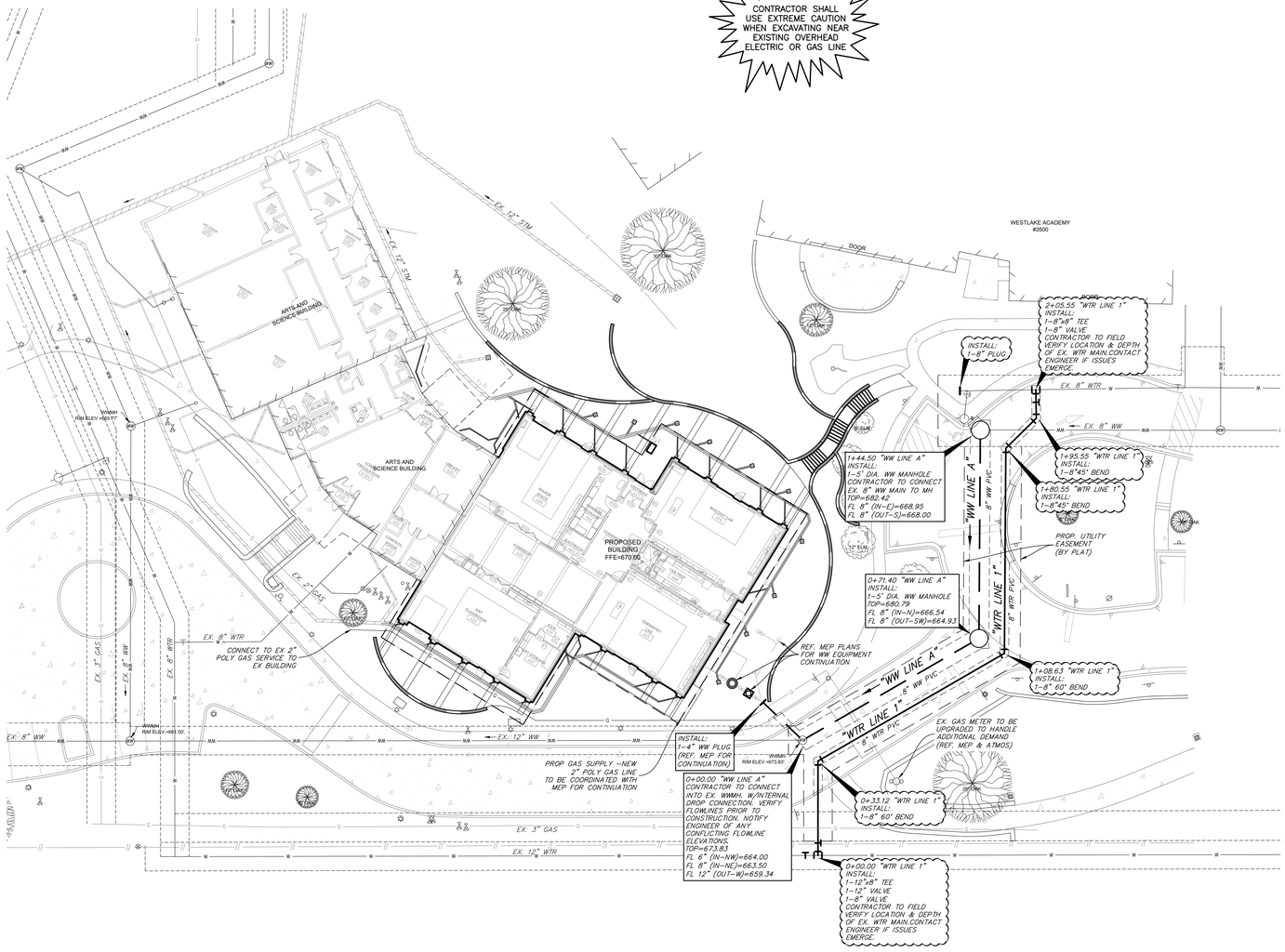
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ARTS & SCIENCES ADDITION
2400 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

C4.0
STORM PLAN



LEGEND

- PROPERTY LINE
- SAWCUT PATH
- G — EX. GAS LINE
- OHE — EX. OVERHEAD ELECTRIC LINE
- UGE — EX. UNDERGROUND ELECTRIC LINE
- UGT — EX. TELEPHONE LINE
- W — EX. WATER LINE
- WW — EX. WASTEWATER LINE
- EX. STORM DRAINAGE LINE
- STORM DRAINAGE LINE
- WATER LINE
- WASTEWATER LINE
- RETAINING WALL
- G — GAS LINE
- UGE — UNDERGROUND ELECTRIC LINE
- UGT — UNDERGROUND TELEPHONE LINE
- WW EX. WWMH — EX. WASTEWATER MANHOLE
- W EX. WMH — EX. WATER MANHOLE
- D EX. SDMH — EX. STORM DRAINAGE MANHOLE
- G EX. GMH — EX. GAS MANHOLE
- EX. FH — EX. FIRE HYDRANT
- GI — GRATE INLET
- WWMH — WASTEWATER MANHOLE
- GAS METER
- FDC — FIRE DEPARTMENT CONNECTION

GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

TOCS
1-800-245-4545
txticket@1-call.com

UTILITY NOTES:

1. REFER TO LANDSCAPE PLANS FOR HARDSCAPE IMPROVEMENTS AND IRRIGATION SLEEVES CROSSING PAVED AREAS.
2. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CITY STANDARDS AND SPECIFICATIONS, AND TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR NORTH CENTRAL TEXAS PREPARED BY THE NORTH TEXAS COUNCIL OF GOVERNMENTS, LATEST EDITION.
3. ALL WATER MAINS SHALL BE AWWA C-900 DR-18 PVC WATER PIPE.
4. ALL 6" THROUGH 15" WASTEWATER MAINS WHERE PVC PIPE IS USED SHALL BE ASTM 3034 (SDR-26), UNLESS OTHERWISE SPECIFIED.
5. THE MAXIMUM ALLOWABLE TRENCH WIDTH FOR ALL PIPE THROUGH 12" DIAMETER SHALL BE 32".
6. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED TO 95% COMPACTION WITH A MOISTURE CONTENT OF +3% OR HIGHER BEFORE INSTALLATION OF PROPOSED UTILITIES.
7. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
8. PRIVATE WATER LINES SHALL BE AS FOLLOWS:
   6" AND LARGER, PVC C-900 PER ASTM D 2241 CLASS 200
   6" AND LARGER DUCTILE IRON PIPE PER AWWA C150
   SMALLER THAN 6" EITHER COPPER TUBE TYPE "L" (SOFT) PER ANSI 816.22 OR PVC, 200 P.S.I., PER ASTM D1784 AND D2241.
9. ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH MEGA-LUGS OR APPROVED EQUIVALENT WITH THRUST BLOCKING AS CALLED OUT IN SPECIFICATIONS.
10. ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE). PROVIDE CEMENT STABILIZED SOIL AT CROSSING LOCATIONS.
11. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 2'-5" COVER ON ALL WATERLINES ON PROPERTY AND A MINIMUM OF 4'-0" COVER IN PUBLIC R/W.
12. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE. MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50). PROVIDE CEMENT STABILIZED SOIL AT CROSSING LOCATIONS.
13. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
14. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
15. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
16. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
17. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
18. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO STORE POSSESSION.
19. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
20. REFER TO BUILDING PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
21. CONTRACTOR TO ADJUST ALL APPURTENANCES TO THEIR FINAL GRADE.
22. PROPOSED PLUMBING SHOWN ON PRIVATE PROPERTY IS NOT REVIEWED AND/OR APPROVED WITH THIS SITE PLAN SUBMITTAL. ALL PLUMBING ON PRIVATE PROPERTY WILL BE REVIEWED AND APPROVED DURING THE BUILDING PERMIT REVIEW.
23. EXISTING UTILITIES MAY BE ABANDONED (REF DEMO PLAN) IF THEY DO NOT INTERFERE WITH PLANNED DEVELOPMENT. UTILITIES WHICH ARE ABANDONED IN PLACE SHOULD BE PROPERLY PRESSURE-GROUTED TO COMPLETELY FILL THE UTILITY.

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1222 Main Street
Dallas, Texas 75226
Firm Registration #F-23252

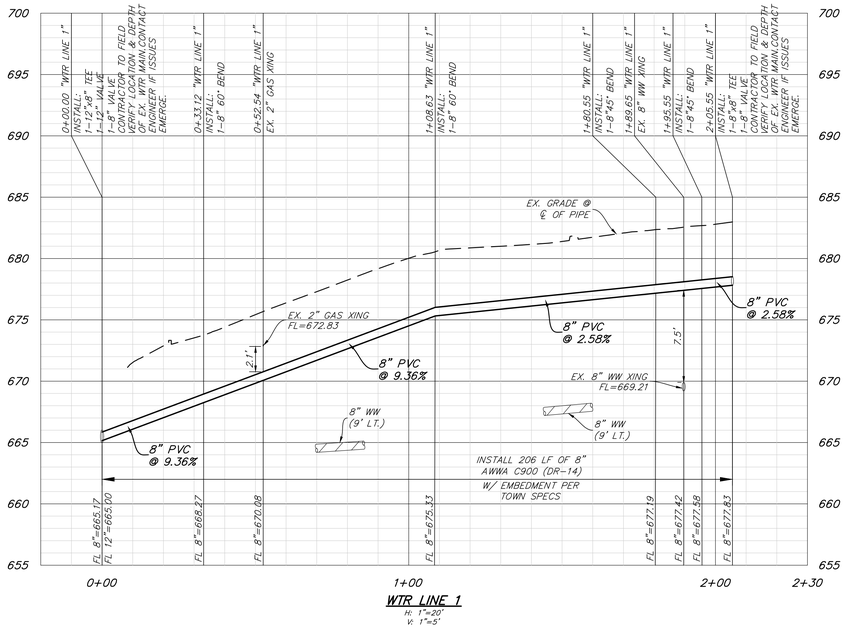
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DATE	JANUARY 20, 2026
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BRW PROJECT NUMBER	225057.00

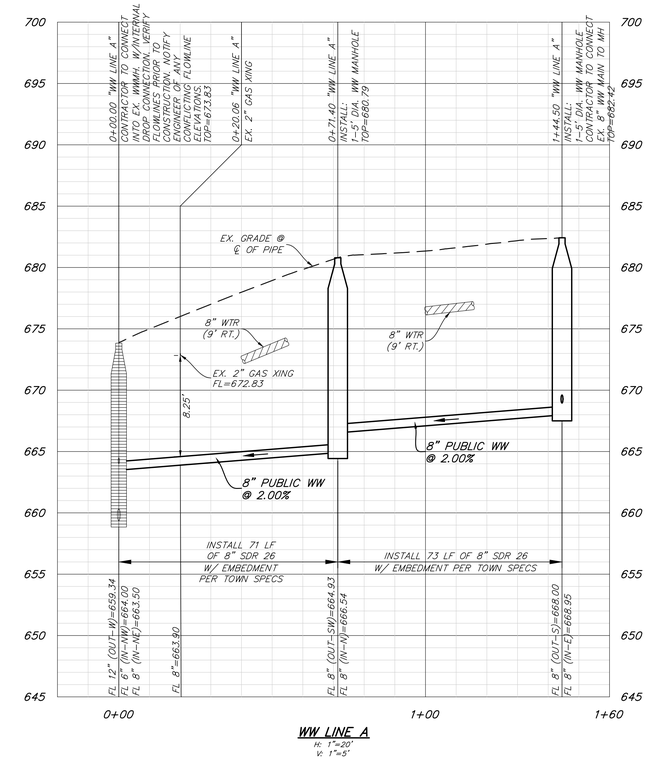
WESTLAKE ACADEMY ARTS & SCIENCES ADDITION
2600 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

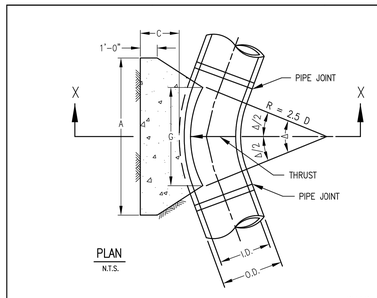
C5.0
UTILITY PLAN



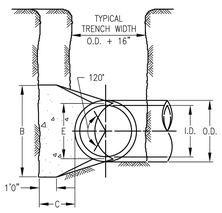
WTR LINE 1
H: 1"=20'
V: 1"=5'



WW LINE A
H: 1"=20'
V: 1"=5'



PLAN
N.T.S.



SECTION X–X
N.T.S.

REFER TO STD. DETAILS W–02 THROUGH W–04 FOR TABLE OF DIMENSIONS AND QUANTITIES AND W–06 FOR GENERAL NOTES

SEPTEMBER 2022

TOWN OF WESTLAKE
1500 SOLANA BOULEVARD
BLDG. 7, SUITE 7200
WESTLAKE, TEXAS 76262

HORIZONTAL THRUST BLOCK AT PIPE BEND W–01

I.D. (IN.)	T (IN.)	Δ = 11.25° (FT.)	Δ > 22.50° (FT.)	E (FT.)
4,6,8	0.4	1.5	1.5	0.9
10,12	0.5	1.5	1.5	1.2
16,18	0.6	1.5	1.5	1.6
20	0.7	1.5	1.5	1.8
24	0.9	1.5	1.5	2.1
30	2.9	1.5	1.9	2.6
36	4.5	1.5	2.3	3.3
42	5.0	1.8	2.6	3.8
48	5.5	2.0	3.0	4.3
54	6.0	2.3	3.4	4.8
60	6.5	2.5	3.8	5.3
66	6.8	2.8	4.1	5.7
72	7.5	3.0	4.5	6.3
78	7.5	3.3	4.9	6.7
84	8.0	3.5	5.3	7.2
90	8.5	3.8	5.6	7.7
96	9.0	4.0	6.0	8.2

		Δ = 11.25°					Δ = 22.50°					
			EARTH		ROCK				EARTH		ROCK	
I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	B (FT.)	A (FT.)	B (FT.)	I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	B (FT.)	A (FT.)	B (FT.)
4,6,8	0.4	1.0	1.0	1.5	1.0	1.0	4,6,8	0.8	2.0	1.5	1.5	1.0	1.0
10,12	0.6	2.2	1.5	1.5	1.0	1.5	10,12	1.1	4.4	2.0	2.5	1.5	1.5
16,18	0.8	5.0	2.0	2.5	1.5	2.0	16,18	1.6	9.9	3.0	3.5	2.0	2.5
20	0.9	6.2	2.0	3.5	1.5	3.0	20	1.8	12.3	3.5	3.5	2.0	3.0
24	1.1	8.9	3.0	3.5	1.5	3.0	24	2.2	17.7	4.0	4.5	1.0	3.0
30	1.4	10.4	3.0	3.5	0.6	2.0	30	2.7	20.7	5.0	4.5	1.5	3.0
36	1.7	15.0	3.5	4.5	0.9	2.0	36	3.3	29.8	5.5	5.5	2.3	4.0
42	1.9	20.4	4.5	5.0	1.5	2.5	42	3.8	40.5	7.0	6.0	3.9	4.5
48	2.2	26.6	4.5	6.0	2.0	2.5	48	4.4	52.9	8.0	7.0	5.7	4.5
54	2.5	33.7	6.0	6.0	3.0	3.0	54	4.9	67.0	9.0	8.0	8.0	6.0
60	2.7	41.6	6.0	7.0	3.8	3.0	60	5.5	82.7	9.5	9.0	10.6	6.0
66	3.0	50.3	6.5	8.0	5.1	3.5	66	6.0	100.1	10.5	10.0	14.1	6.5
72	3.3	59.9	7.5	8.0	6.3	4.0	72	6.6	119.1	11.0	11.0	17.6	7.5
78	3.6	70.2	8.0	9.0	8.1	4.0	78	7.1	139.8	12.0	12.0	22.5	8.0
84	3.8	81.5	8.5	10.0	10.3	4.5	84	7.6	162.1	13.0	12.5	27.2	8.5
90	4.1	93.5	9.5	10.0	12.2	5.0	90	8.2	186.1	14.0	13.5	33.7	9.5
96	4.4	106.4	10.0	11.0	15.0	5.0	96	8.7	211.7	15.0	14.5	41.2	10.0

TABLES OF DIMENSIONS AND QUANTITIES

SEPTEMBER 2022

TOWN OF WESTLAKE
1500 SOLANA BOULEVARD
BLDG. 7, SUITE 7200
WESTLAKE, TEXAS 76262

HORIZONTAL THRUST BLOCK AT PIPE BEND W–02

		Δ = 30°						Δ = 45°					
			EARTH		ROCK				EARTH		ROCK		
I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)	I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)
4,6,8	1.0	2.6	2.0	1.5	0.2	1.0	1.5	0.1	4,6,8	1.5	3.9	2.0	2.0	0.2	1.5	1.5	0.1
10,12	1.5	5.9	2.5	2.5	0.3	2.0	1.5	0.2	10,12	2.2	8.7	3.5	2.5	0.5	2.0	2.5	0.3
16,18	2.2	13.2	3.5	4.0	0.8	2.5	3.0	0.4	16,18	3.2	19.5	4.5	4.5	1.2	3.0	3.5	0.6
20	2.4	16.3	4.5	4.0	1.0	3.0	3.0	0.5	20	3.6	24.1	5.5	4.5	1.5	3.5	3.5	0.7
24	2.9	23.4	6.0	4.0	1.4	3.5	3.5	0.7	24	4.3	34.6	8.0	4.5	2.3	4.5	4.0	1.1
30	3.6	27.5	6.5	5.0	1.9	3.5	4.0	0.9	30	5.4	40.6	8.5	5.0	3.2	5.5	4.0	1.6
36	4.4	39.5	7.0	6.0	3.4	4.5	4.5	1.6	36	6.5	58.5	10.0	6.0	5.3	6.5	4.5	2.6
42	5.1	53.8	8.0	7.0	5.1	5.5	5.0	2.5	42	7.5	79.6	11.5	7.0	8.1	8.0	5.0	4.2
48	5.8	70.3	9.0	8.0	7.4	6.0	6.0	3.7	48	8.6	104.0	13.0	8.0	11.9	9.0	6.0	6.3
54	6.5	89.0	10.0	9.0	10.3	7.0	6.5	5.3	54	9.7	131.5	15.0	9.0	17.1	10.5	6.5	8.9
60	7.3	110.0	11.0	10.0	13.9	7.5	7.5	7.3	60	10.7	162.4	16.5	10.0	23.1	11.0	7.5	12.0
66	8.0	132.9	12.5	11.0	18.9	8.5	8.0	9.6	66	11.8	196.5	18.0	11.0	30.1	12.0	8.5	16.2
72	8.7	158.2	13.5	12.0	24.0	9.0	9.0	12.3	72	12.9	233.9	19.5	12.0	38.6	14.0	8.5	20.7
78	9.4	185.6	14.5	13.0	30.0	10.0	9.5	15.6	78	13.9	274.5	21.5	13.0	49.8	14.5	9.5	25.9
84	10.1	215.3	15.5	14.0	37.1	10.5	10.5	19.5	84	15.0	318.4	23.0	14.0	61.2	15.5	10.5	32.6
90	10.9	247.1	16.5	15.0	45.0	11.5	11.0	23.9	90	16.1	365.5	24.5	15.0	74.5	17.5	10.5	39.6
96	11.6	281.2	18.0	16.0	55.5	12.5	11.5	28.9	96	17.1	415.6	26.0	16.0	89.5	18.5	11.5	48.5

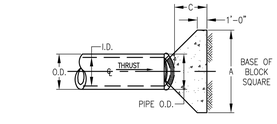
		Δ = 67.50°						Δ = 90°					
			EARTH		ROCK				EARTH		ROCK		
I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)	I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)
4,6,8	2.1	5.6	3.0	2.0	0.3	2.0	1.5	0.2	4,6,8	2.7	7.1	5.0	1.5	0.4	2.0	2.0	0.2
10,12	3.1	12.6	5.5	2.5	0.8	3.5	2.0	0.4	10,12	4.0	16.0	6.5	2.5	1.0	3.5	2.5	0.5
16,18	4.7	28.3	7.5	4.0	1.9	5.5	3.0	0.9	16,18	6.0	36.0	9.0	4.0	2.4	4.5	4.0	1.0
20	5.2	34.9	9.0	4.0	2.3	5.5	3.5	1.2	20	6.6	44.4	10.0	4.5	3.1	6.0	4.0	1.5
24	6.2	50.3	11.5	4.5	3.5	6.5	4.0	1.6	24	7.9	64.0	14.5	4.5	5.0	8.0	4.0	2.1
30	7.8	58.9	12.0	5.0	4.8	7.5	4.0	2.2	30	9.9	75.0	15.0	5.0	6.7	10.0	4.0	3.3
36	9.4	84.9	14.5	6.0	8.2	9.5	4.5	3.8	36	11.9	108.0	18.0	6.0	11.4	12.0	4.5	5.3
42	10.9	115.5	17.0	7.0	12.8	11.0	5.5	6.3	42	13.9	147.0	21.0	7.0	17.8	14.0	5.5	8.7
48	12.5	150.9	19.0	8.0	18.4	13.0	6.0	9.2	48	15.9	192.0	24.0	8.0	26.2	16.0	6.0	12.4
54	14.0	191.0	21.5	9.0	26.0	15.0	6.5	12.9	54	17.9	243.0	27.0	9.0	36.9	18.0	7.0	18.1
60	15.6	235.8	24.0	10.0	35.6	16.0	7.5	17.6	60	19.9	299.8	30.0	10.0	50.3	20.0	7.5	24.0
66	17.1	285.3	26.0	11.0	46.0	18.0	8.0	23.0	66	21.8	362.8	33.0	11.0	66.2	22.0	8.5	32.5
72	18.7	339.5	28.5	12.0	57.8	19.0	9.0	28.4	72	23.8	431.8	36.0	12.0	85.6	24.0	9.0	41.0
78	20.2	398.5	31.0	13.0	75.7	21.0	9.5	37.4	78	25.7	506.7	39.0	13.0	108.2	26.0	10.0	53.2
84	21.8	462.1	33.5	14.0	94.7	22.0	10.5	46.5	84	27.7	587.7	42.0	14.0	134.4	28.0	10.5	64.8
90	23.3	530.5	35.5	15.0	114.4	24.5	11.0	58.2	90	29.0	674.6	45.0	15.0	164.9	30.0	11.5	81.2
96	24.9	603.6	38.0	16.0	138.9	25.5	12.0	70.0	96	31.6	767.5	48.0	16.0	199.0	32.0	12.0	95.1

TABLES OF DIMENSIONS AND QUANTITIES

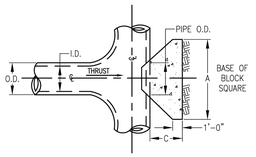
SEPTEMBER 2022

TOWN OF WESTLAKE
1500 SOLANA BOULEVARD
BLDG. 7, SUITE 7200
WESTLAKE, TEXAS 76262

HORIZONTAL THRUST BLOCK AT PIPE BEND W–03



PLAN OF PLUG THRUST BLOCK
N.T.S.



PLAN OF TEE THRUST BLOCK
N.T.S.

REFER TO STD. DETAIL W–06 FOR GENERAL NOTES

I.D. (IN.)	THRUST (TONS)	C (FT.)	EARTH A (FT.)	EARTH VOL. (C.Y.)	ROCK A (FT.)	ROCK VOL. (C.Y.)
4,6,8	5.1	1.5	2.5	0.3	2.0	0.2
10,12	11.3	1.5	3.5	0.6	2.5	0.3
16,18	25.5	2.0	5.5	1.6	4.0	0.9
20	31.5	2.0	6.0	1.9	4.0	0.9
24	45.2	2.5	7.0	3.1	5.0	1.7
30	53.0	3.0	7.5	4.1	5.5	2.4
36	76.3	4.0	9.0	7.3	6.5	4.2
42	104.0	4.5	10.5	11.0	7.5	6.2
48	136.0	5.0	12.0	15.6	8.5	8.7
54	172.0	5.5	13.5	21.4	9.5	11.9
60	212.0	6.0	15.0	28.4	10.5	15.7
66	257.0	6.5	16.5	36.8	11.5	20.5
72	305.0	7.5	17.5	47.2	12.5	27.2
78	358.0	8.0	19.0	58.9	13.5	33.7
84	416.0	8.5	20.5	72.3	14.5	41.2
90	477.0	9.0	22.0	87.7	15.5	49.7
96	543.0	9.5	23.5	104.8	16.5	61.0

SEPTEMBER 2022

TOWN OF WESTLAKE
1500 SOLANA BOULEVARD
BLDG. 7, SUITE 7200
WESTLAKE, TEXAS 76262

HORIZONTAL THRUST BLOCK W–04

ISSUE FOR PROPOSALS

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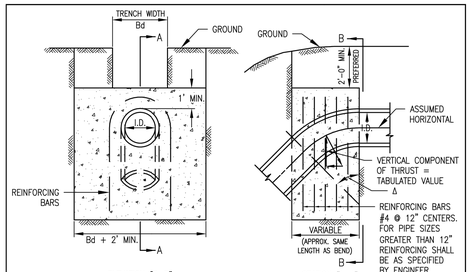
DATE	JANUARY 20, 2026
DRAWN BY	CMT
CHECKED BY	JDB
BRW PROJECT NUMBER	225057.00

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ARTS & SCIENCES ADDITION
2600 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

C5.1

UTILITY PROFILES & DETAILS



REFER TO
STD. DETAIL W-06
FOR GENERAL NOTES

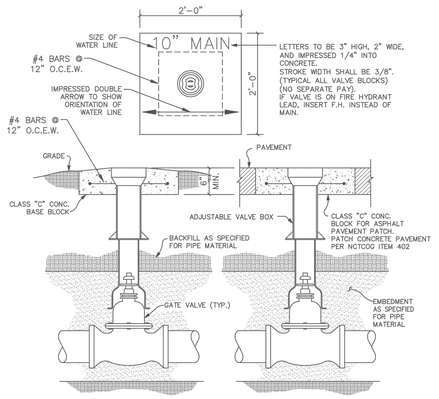
Δ	11.25°		22.50°		30°		45°		67.50°		90°		Δ
I.D. (IN.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	I.D. (IN.)
4,6,8	1.0	0.5	2.0	1.0	2.5	1.3	3.6	1.8	4.6	2.3	5.0	2.5	4,6,8
10,12	2.2	1.1	4.3	2.2	5.7	2.8	8.0	4.0	10.5	5.2	11.3	5.7	10,12
16,18	5.0	2.5	9.7	4.9	12.7	6.4	18.0	9.0	23.5	11.8	25.5	12.7	16,18
20	6.1	3.1	12.0	6.0	15.7	7.9	22.2	11.1	29.2	14.5	31.4	15.7	20
24	8.2	4.4	17.3	8.7	22.6	11.3	32.0	16.0	41.8	20.9	45.2	22.6	24
30	10.5	5.2	20.3	10.1	26.5	13.3	37.5	18.8	49.0	24.5	53.1	26.5	30
36	14.9	7.5	29.2	14.6	38.2	19.1	54.0	27.0	70.5	35.3	76.4	38.2	36
42	20.3	10.1	39.8	19.9	52.0	26.0	73.5	36.7	96.0	48.0	104.0	52.0	42
48	26.5	13.2	51.9	26.0	67.9	33.9	96.0	48.0	126.0	62.7	136.0	67.9	48
54	33.5	16.8	65.7	32.9	85.9	42.9	122.0	60.7	159.0	79.4	172.0	85.9	54
60	41.4	20.7	81.2	40.6	106.0	53.0	150.0	75.0	196.0	98.0	212.0	106.0	60
66	50.1	25.0	98.2	49.1	128.0	64.2	182.0	90.7	237.0	119.0	257.0	128.0	66
72	59.6	29.8	117.0	58.4	153.0	76.3	216.0	108.0	282.0	141.0	305.0	153.0	72
78	69.9	35.0	137.0	68.6	179.0	90.0	254.0	127.0	331.0	166.0	358.0	179.0	78
84	81.1	40.5	159.0	79.5	208.0	104.0	294.0	147.0	384.0	192.0	416.0	208.0	84
90	93.1	46.5	183.0	91.3	239.0	119.0	337.0	169.0	441.0	221.0	477.0	239.0	90
96	106.0	53.0	208.0	104.0	272.0	136.0	384.0	192.0	502.0	251.0	543.0	272.0	96

SEPTEMBER 2022 | TOWN OF WESTLAKE, 1500 SOLANA BOULEVARD BLDG. 7, SUITE 7200 WESTLAKE, TEXAS 76262 | VERTICAL THRUST BLOCK AT PIPE BEND W-05

GENERAL NOTES FOR ALL THRUST BLOCKS:

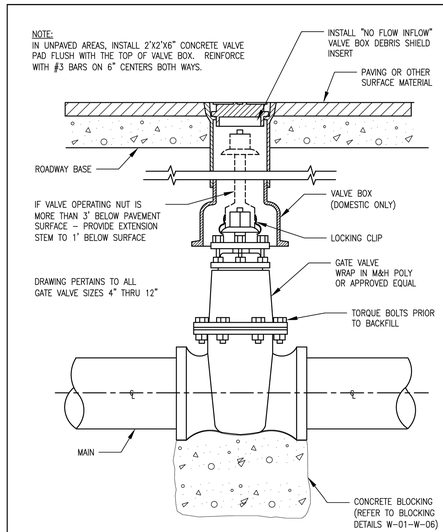
1. CONCRETE FOR BLOCKING SHALL BE CLASS "B".
2. ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 PSI FOR DUCTILE IRON, P.V.C., AND 150 PSI FOR CONCRETE PIPE.
3. VOLUMES OF THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. THE CORRESPONDING WEIGHT OF THE CONCRETE (CLASS "B") IS EQUAL TO OR GREATER THAN THE VERTICAL COMPONENT OF THE THRUST ON THE VERTICAL BEND.
4. WALL THICKNESS (T) ASSUMED HERE FOR ESTIMATING PURPOSES ONLY.
5. POUR CONCRETE FOR BLOCK AGAINST UNDISTURBED EARTH.
6. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE.
7. THE SOIL BEARING PRESSURES ARE BASED ON 1000 LBS./S.F. IN SOIL AND 2000 LBS./S.F. IN ROCK.
8. USE 8 MIL POLYETHYLENE WRAP OR EQUAL BETWEEN CONCRETE AND BEND, TEE, OR PLUG TO PREVENT THE CONCRETE FROM STICKING TO IT.
9. CONCRETE SHALL NOT EXTEND BEYOND JOINTS.

SEPTEMBER 2022 | TOWN OF WESTLAKE, 1500 SOLANA BOULEVARD BLDG. 7, SUITE 7200 WESTLAKE, TEXAS 76262 | THRUST BLOCK GENERAL NOTES W-06



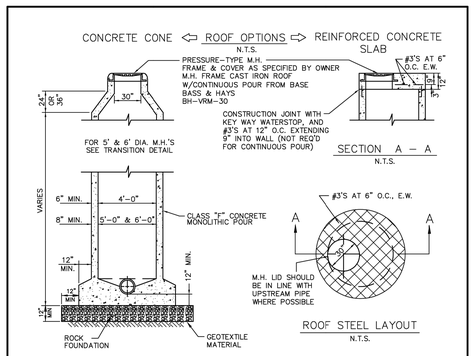
NOTES:
1. THE VALVE AND JOINT ASSEMBLIES SHALL BE WRAPPED IN POLYETHYLENE ACCORDING TO AWWA C105.
2. THE JOINT TYPE SHALL BE MECHANICAL JOINT UNLESS OTHERWISE SPECIFIED IN THE PLANS.
3. GATE VALVE SHALL BE RESILIENT SEAT TYPE WITH A NON RISING STEM AND A 2-INCH SQUARE OPERATOR. RESILIENT SEAT GATE VALVE SHALL CONFORM TO AWWA C509.
4. A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WITH AN OPERATING NUT LOCATED IN EXCESS OF 4 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE SUFFICIENT LENGTH TO ENSURE THAT ITS TOP IS WITHIN 18" – 24" OF VALVE BOX LID.
5. 16" AND LARGER GATE VALVES REQUIRE CONCRETE BLOCK UNDER THE VALVE BODY.
6. ALL VALVE COVERS SHALL BE PAINTED BLUE.
7. A "V" SHALL BE SAW CUT IN THE CURB AT ALL VALVE LOCATIONS.

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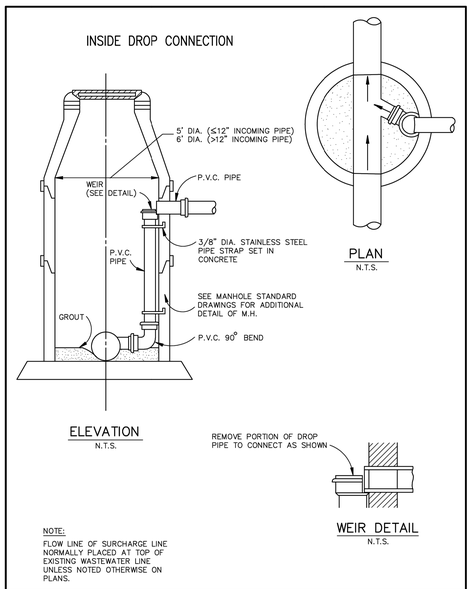


GATE VALVE BOX AND EXTENSION STEM
N.T.S.

SEPTEMBER 2022 | TOWN OF WESTLAKE, 1500 SOLANA BOULEVARD BLDG. 7, SUITE 7200 WESTLAKE, TEXAS 76262 | GATE VALVE 4" TO 12" W-08

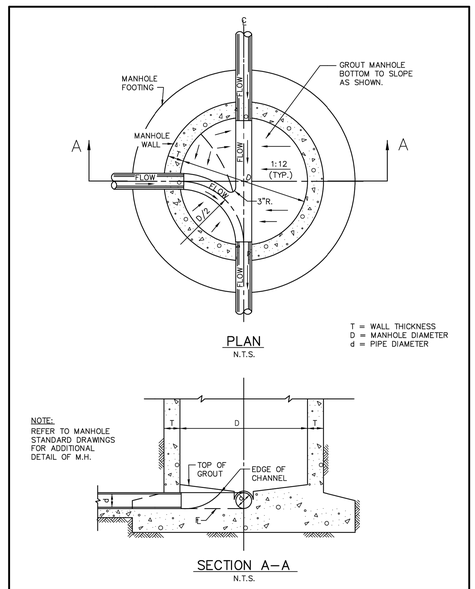


FEBRUARY 2021 | TOWN OF WESTLAKE, 1500 SOLANA BOULEVARD BLDG. 7, SUITE 7200 WESTLAKE, TEXAS 76262 | WASTEWATER MANHOLE WWC-01



NOTE:
FLOW LINE OF SURCHARGE LINE NORMALLY PLACED AT TOP OF EXISTING WASTEWATER LINE UNLESS NOTED OTHERWISE ON PLANS.

FEBRUARY 2021 | TOWN OF WESTLAKE, 1500 SOLANA BOULEVARD BLDG. 7, SUITE 7200 WESTLAKE, TEXAS 76262 | WASTEWATER MANHOLE WWC-03



FEBRUARY 2021 | TOWN OF WESTLAKE, 1500 SOLANA BOULEVARD BLDG. 7, SUITE 7200 WESTLAKE, TEXAS 76262 | WASTEWATER MANHOLE LINE INTERSECTION WWC-04

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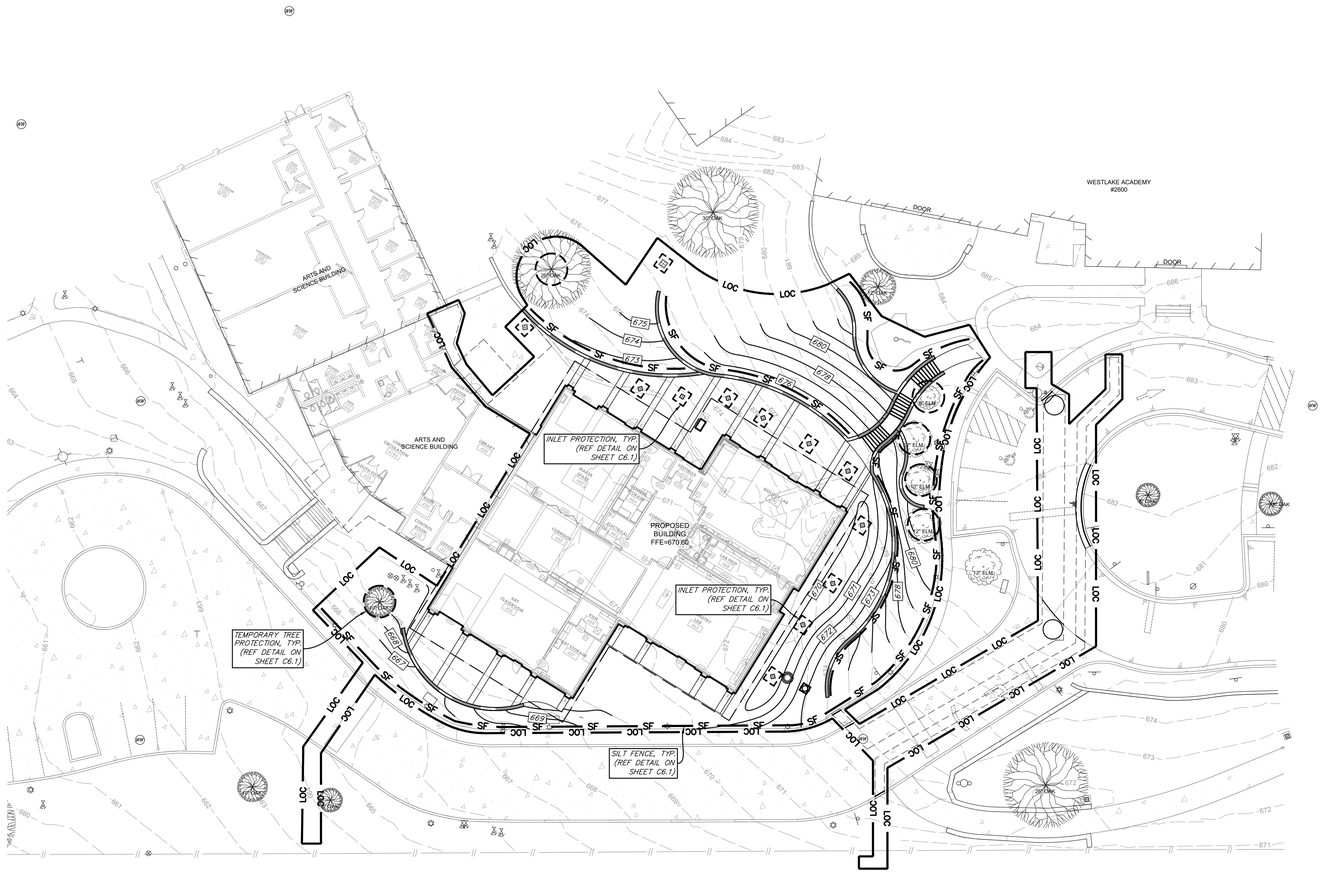
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DATE: JANUARY 20, 2026
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BRW PROJECT NUMBER: 225057.00

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WESTLAKE, TX 76262

NO.	REVISION	DATE

C5.2
UTILITY DETAILS



TOCS
1-800-245-4545
txticket@1-call.com

GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

LEGEND

SF	SILT FENCE
LOC	LIMITS OF CONSTRUCTION
525	EX. CONTOUR
525	CONTOUR
	INLET PROTECTION
12" Dbh	TEMPORARY TREE PROTECTION

EROSION CONTROL GENERAL NOTES

1. THE EROSION CONTROL PLAN HAS BEEN PREPARED TO PROVIDE MEANS TO PREVENT OR MINIMIZE POLLUTION OF STORM WATER.
2. THE CONSTRUCTION ACTIVITY INCLUDED IN THIS PLAN WILL INCLUDE:
   A. CLEARING AND GRUBBING
   B. ROUGH GRADING
   C. FINAL GRADING
   D. UTILITY INSTALLATION
   E. PAVEMENT INSTALLATION
   F. BUILDING CONSTRUCTION
3. THE TOTAL ESTIMATED LAND AREA TO BE DISTURBED IS 0.62 ACRES.
4. THE ESTIMATED RUNOFF COEFFICIENT UPON COMPLETION OF THE PROJECT IS 0.80.
5. THE STORM WATER EXITING THE SITE DRAINS TO AN EXISTING DRAINAGE SYSTEM MAINTAINED BY THE TOWN OF WESTLAKE.
6. THE SOILS ON THE SITE ARE GENERALLY EXPANSIVE CLAYS.
7. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION PROTECTION AROUND THE WORK AREA PERIMETER AND AT ALL INLET MOUTHS PRIOR TO COMMENCING WORK AND UNTIL THE WORK AREA HAS BEEN STABILIZED.
8. THE CONTRACTOR WILL REMOVE ALL EXCESS SOIL FROM CONSTRUCTION VEHICLES PRIOR TO EXITING THE SITE.
9. ALL DISTURBED AREAS WHICH WILL NOT BE RE-DISTURBED FOR A MINIMUM OF 21 DAYS MUST BE STABILIZED BY THE CONTRACTOR TO CONTROL EROSION.
10. THE CONTRACTOR SHALL UNDERTAKE PROPER METHODS TO REDUCE DUST GENERATION FROM THE SITE.
11. THE CONTRACTOR MUST COMPLY WITH FEDERAL STATE AND LOCAL REGULATIONS REGARDING SEDIMENT AND EROSION CONTROL.
12. A COPY OF THIS PLAN MUST BE KEPT AT THE CONSTRUCTION FACILITY DURING THE ENTIRE CONSTRUCTION PERIOD.
13. ALL FINISHED GRADES ARE TO BE HYDROMULCHED, SPOT SODDED OR SEEDED AND WATERED UNTIL GROWTH IS ESTABLISHED ON AND OFF-SITE.
14. A PIT OR WASH OUT BASIN SHALL BE CONSTRUCTED ON-SITE BY THE CONTRACTOR FOR THE "WASH OUT" OF CONCRETE TRUCKS PER NCTCOG SPECIFICATIONS.
15. A BERM OR OTHER SPILL PROTECTION MEASURE SHALL BE USED FOR ANY TEMPORARY FUEL STORAGE TANK ON SITE.
16. IF "SUMP" PUMPS ARE USED TO REMOVE WATER FROM EXCAVATED AREAS, FILTER THE DISCHARGE TO REMOVE SEDIMENT AND OTHER POLLUTANTS BEFORE THE WATER LEAVES THE SITE.
17. TO PREVENT DAMAGE TO VEGETATION IN DOWNSTREAM WATER COURSES, LIMIT ANY PROPOSED LIME STABILIZATION OPERATIONS TO THAT WHICH CAN BE MIXED AND COMPACTED BY THE END OF EACH WORK DAY. GEOTEXTILE FABRIC IS NOT EFFECTIVE IN FILTERING LIME SINCE THE GRAIN SIZE IS SMALLER THAN THE OPENING IN THE FABRIC.
18. VEHICLE PARKING AREAS, STAGING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. OTHERWISE, COVERING OR ENCIRCLING THE AREAS WITH PROTECTIVE MEASURES WILL BE NECESSARY.
19. STORE ALL TRASH AND BUILDING MATERIALS WASTE IN AN ENCLOSURE UNTIL PROPER DISPOSAL AT THE APPROPRIATE OFF-SITE FACILITIES.
20. TRACKING OF SEDIMENT OFF SITE BY TRUCK TRAFFIC SHALL BE HANDLED THROUGH REGULAR CLEANING.
21. INSPECTIONS SHALL BE CONDUCTED BY THE PERMITEE ONCE EVERY 2 WEEKS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 0.5 INCHES OR MORE. THE INSPECTIONS WILL INCLUDE:
   A. DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN STABILIZED,
   B. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION,
   C. STRUCTURAL CONTROL MEASURES,
   D. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND
   E. IDENTIFICATION OF MEASURES THAT NEED TO BE MAINTAINED, MODIFIED OR ADDED TO CORRECT PROBLEMS.
23. CONTRACTOR SHALL PREVENT THE DISCHARGE OF BUILDING MATERIALS, LIME, CEMENT, CONCRETE, ASPHALT, AND MORTAR TO THE MS4s OR TO THE WATERS OF THE UNITED STATES.
24. PERMANENTLY STABILIZE EXPOSED SOIL WITHIN AND ADJACENT TO THE SITE, THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION ACTIVITIES.
25. CONTAIN ALL RUNOFF FROM MATERIAL USED IN SUBGRADE STABILIZATION.
26. MATERIAL STOCKPILES SHALL BE COVERED BY PLASTIC OR SURROUNDED BY EROSION CONTROL STRUCTURES TO CONTROL SEDIMENT RELEASES.
27. CONTRACTOR TO REFER TO LANDSCAPE PLANS FOR ALL TREE PROTECTION.
28. CONTRACTOR TO INSTALL GRAVEL CURB INLET SEDIMENT FILTER AT CLOSEST DOWNSTREAM INLET IF NECESSARY TO PREVENT THE PROJECTS SEDIMENT FROM ENTERING THE STORM SYSTEM.
29. CONTRACTOR TO REFER TO THE LANDSCAPE ARCHITECT FOR ALL TREE PROTECTION/REMOVAL FOR THE ENTIRE DEVELOPMENT.

Texas811

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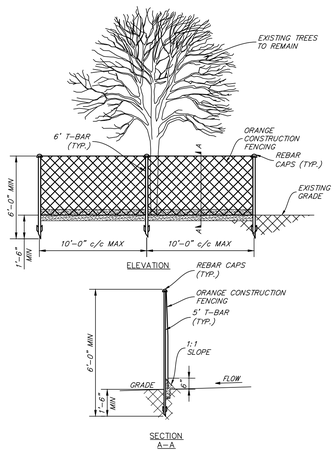
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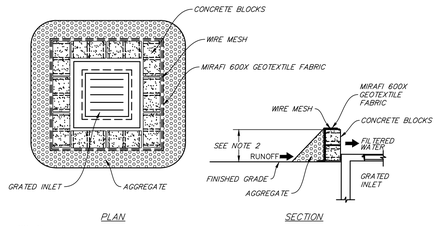
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C6.0
EROSION CONTROL PLAN



TEMPORARY TREE PROTECTION FENCING

N.T.S



NOTES:

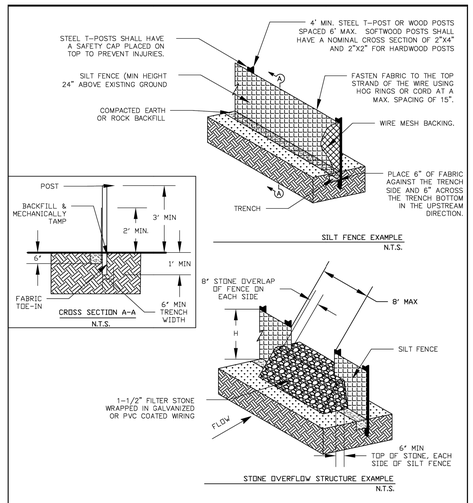
1. PLACE CONCRETE BLOCKS IN A SINGLE ROW AROUND PERIMETER OF INLET ON THEIR SIDES, WITH ENDS OF ADJACENT BLOCKS ABUTTING.
2. HEIGHT OF BARRIER VARIES. USE STACKS OF 4", 8", OR 12" BLOCKS. MIN. HEIGHT OF BARRIER SHALL BE 12" AND MAX. HEIGHT SHALL BE 24".
3. PLACE HARDWARE CLOTH/WIRE MESH W/ MAX. 1/2" OPENINGS OVER VERTICAL FACE OF CONCRETE BLOCKS.
4. THE AGGREGATE SHALL BE 3/4"-2" ANGULAR CLEAN STONE, WHICH WILL SLOW THE FLOW OF THE WATER AND ALLOW IT TO FILTER THROUGH AND OVER THE MATERIAL BEFORE ENTERING THE INLET.

MAINTENANCE NOTES:

1. INLET PROTECTION DEVICES MUST BE INSPECTED FOR SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN (IF USING INSERT-TYPE DEVICE) OR UPGRADIENT OF THE INLET.
2. REMOVAL OF SEDIMENT ACCUMULATED IN OR ADJACENT TO A STORM DRAIN INLET MUST BEGIN IMMEDIATELY UPON DISCOVERY, WITH COMPLETION OF THE ACTIVITY OCCURRING NO LATER THAN THE END OF THE FOLLOWING BUSINESS DAY.
3. INLET PROTECTION DEVICES SHALL BE INSPECTED FOR UNINTENDED BYPASS OR IMPROPER FLOW-RATES THAT MAY CAUSE DOWNSTREAM FLOODING.
4. CONTACT THE CEC FOR ALTERNATE INLET PROTECTION IF THE DESIGNED PROTECTION MAY IMPACT DOWNSTREAM BMPS, ADJACENT SLOPES, ETC., DUE TO PONDING ISSUES. ENSURE THAT NO UNDERMINING OF INLET PROTECTION DEVICES HAS OCCURRED.
5. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.

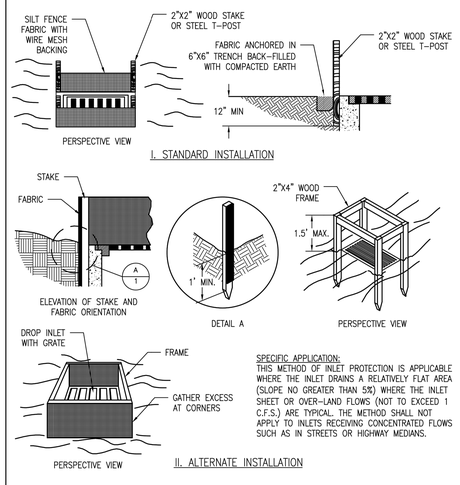
BLOCK AND AGGREGATE INLET PROTECTION

N.T.S



SILT FENCE GENERAL NOTES:

1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WIRE BACKING, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN FINAL STABILIZATION IS ACHIEVED OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.



SPECIFIC APPLICATION:
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVER-LAND FLOWS (NOT TO EXCEED 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREETS OR HIGHWAY MEDIANS.

SEPTEMBER 2022	TOWN OF WESTLAKE 1500 SOLANA BOULEVARD BLDG. 7, SUITE 7200 WESTLAKE, TEXAS 76262	SILT FENCE WEC-01A	
SEPTEMBER 2022	TOWN OF WESTLAKE 1500 SOLANA BOULEVARD BLDG. 7, SUITE 7200 WESTLAKE, TEXAS 76262	SILT FENCE WEC-01B	
SEPTEMBER 2022	TOWN OF WESTLAKE 1500 SOLANA BOULEVARD BLDG. 7, SUITE 7200 WESTLAKE, TEXAS 76262	INLET PROTECTION FILTER BARRIER WEC-15	

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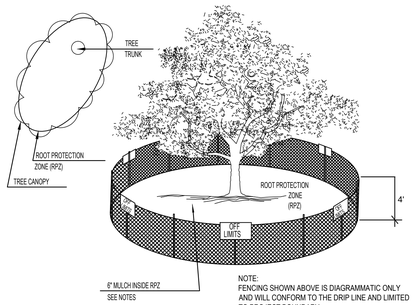
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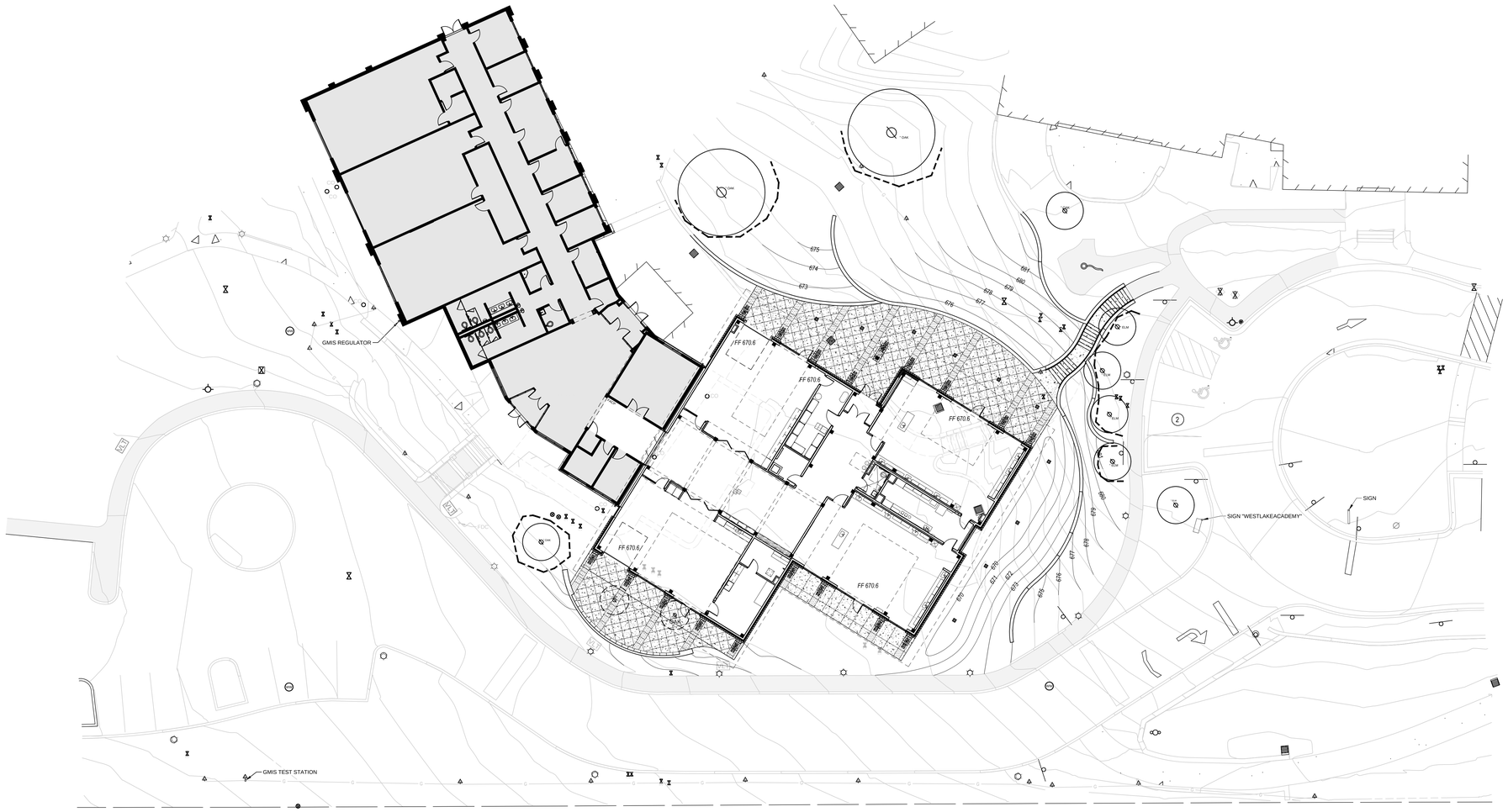
C6.1

EROSION CONTROL DETAILS



A TREE PROTECTION FENCE A

NOT TO SCALE



EXISTING TREE NOTES

1. *Existing trees to remain shall be protected during construction from tree structure damage and compaction of soil under and around dripline (canopy) of tree.*
2. *If any root structure is damaged during adjacent excavation/construction, notify the Architect immediately. It is recommended that a licensed Arborist be secured for the treatment of any possible tree wounds.*
3. *No disturbance of the soil greater than 4" shall be located closer to the tree trunk than 1/2 the distance of the drip line to the tree trunk. A minimum of 75% of the drip line and root zone shall be preserved at natural grade.*
4. *Any fine grading done within the critical root zones of the protected trees must be done with light machinery such as a bobcat or light tractor. No earth moving equipment with tracks is allowed within the critical root zone of the trees.*
5. *Material Storage: No materials intended for use in construction or waste materials accumulated due to excavation or demolition shall be placed within the limits of the dripline of any tree.*
6. *Equipment Cleaning/Liquid Disposal: No equipment may be cleaned, toxic solutions, or other liquid chemicals shall be deposited within the limits of the dripline of a tree. This would include but not be limited to paint, oil, solvents, asphalt, concrete, mortar, primers, etc.*
7. *Tree Attachments: No signs, wires or other attachments, other than those of a protective nature shall be attached to any tree.*
8. *Vehicular Traffic: No vehicular and construction equipment traffic or parking is allowed within the limits of the dripline of trees.*
9. *Boring of Utilities: May be permitted under protected trees in certain circumstances. The minimum length of the bore shall be the width of the tree's canopy and shall be a minimum depth of forty-eight (48") inches.*
10. *Trenching: Any irrigation trenching which must be done within the critical root zone of a tree shall be dug by hand and enter the area in a radial manner.*
11. *Tree Flagging: All trees to be removed from the site shall be flagged by the Contractor with bright red vinyl tape (3" width) wrapped around the main trunk at a height of four (4) feet above grade.*
12. *Protective Fencing: All trees to remain, as noted on drawings, shall have protective fencing located at the tree's dripline. The protective fencing may be comprised of snow fencing, orange vinyl construction fencing, chain link fence or other similar fencing with a four (4) foot approximate height. The protective fencing will be located as indicated on the Tree Protection Detail(s).*
13. *Bark Protection: In situations where a tree remains in the immediate area of intended construction, the tree shall be protected by enclosing the entire circumference of the tree's trunk with lumber encircled with wire or other means that does not damage the tree. Refer to Tree Protection Detail(s).*
14. *Construction Pruning: In a case where a low hanging limb is broken during the course of construction, the Contractor shall notify the Arborist immediately. In no instance shall the Contractor prune any portion of the damaged tree without the prior approval by the Arborist.*

EXISTING TREE LEGEND

EXISTING TREE TO REMAIN

EXISTING TREE TO BE REMOVED

TREE PROTECTION FENCING TO REMAIN DURING CONSTRUCTION REFER A TO 01/L1.0

CALL BEFORE YOU DIG 1-800-DIG-TEX TEXAS ONE CALL SYSTEM

01 TREE PRESERVATION PLAN

SCALE: 1" = 16'-0"

0 8 16 32

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BRIAN D. ADAMS
3175
STATE OF TEXAS
12.20.2026

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landscape architects, inc.
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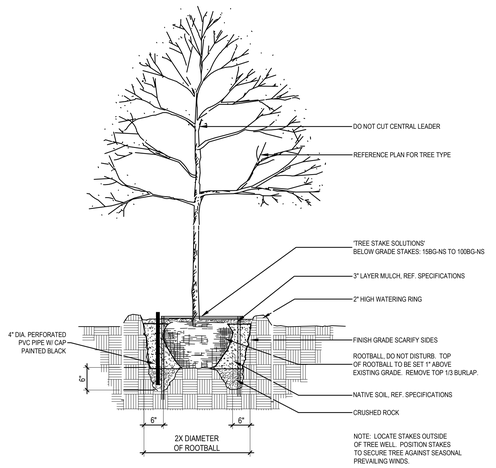
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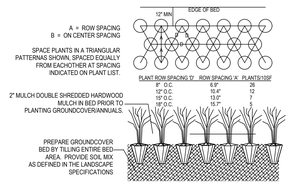
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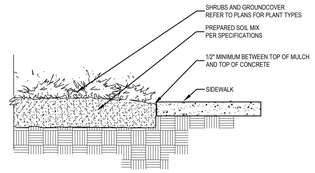
TREE PRESERVATION PLAN



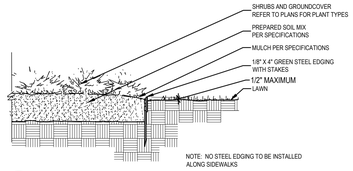
A TREE PLANTING DETAIL
NOT TO SCALE



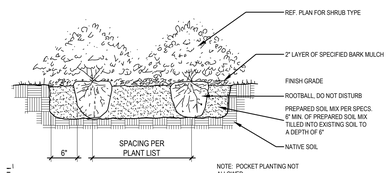
B GROUNDCOVER PLANTING DETAIL
NOT TO SCALE



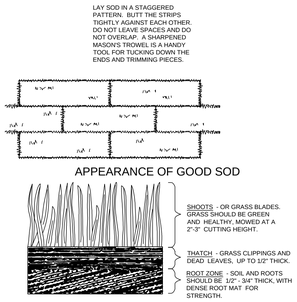
C SIDEWALK / MULCH DETAIL
no steel along sidewalks
NOT TO SCALE



D STEEL EDGING DETAIL
NOT TO SCALE



E SHRUB PLANTING DETAIL
NOT TO SCALE



F SOD PLANTING DETAIL
NOT TO SCALE

IRRIGATION REPAIR SPECIFICATIONS

1. *Contractor shall perform site visit prior to bidding and construction, to review extent of existing irrigation system.*
2. *Contractor shall be responsible for verifying conditions of existing irrigation system. Contractor shall be responsible for maintaining the integrity of existing irrigation where possible, and if not, repair as needed, including but not limited to irrigation controller, meter, sleeving, etc.*

LAWN REPAIR NOTES

1. *All lawn areas damaged during construction to be repaired with solid sod and raked free of debris.*
2. *Adjust damaged areas to achieve positive drainage away from buildings. Provide uniform rounding at top and bottom of slopes and other breaks in grade. Correct irregularities and areas where water may stand.*
3. *All areas to be repaired must be planted by hand to cover area completely. Insure edges of sod are touching. Top dress joints by hand with compost to fill voids.*
4. *Roll repaired areas to achieve a smooth, even surface, free from unnatural undulations.*

LANDSCAPE NOTES

1. *Contractor shall verify all existing and proposed site elements and notify Architect of any discrepancies. Survey data of existing conditions was supplied by others.*
2. *Contractor shall locate all existing underground utilities and notify Architect of any conflicts. Contractor shall exercise caution when working in the vicinity of underground utilities.*
3. *Contractor is responsible for obtaining all required landscape and irrigation permits.*
4. *Contractor to provide a minimum 2% slope away from all structures.*
5. *All planting beds and lawn areas to be separated by steel edging. No steel to be installed adjacent to sidewalks or curbs.*
6. *All landscape areas to be 100% irrigated with an underground automatic irrigation system and shall include rain and freeze sensors.*
7. *All lawn areas to be Solid Sod Bermudagrass, unless otherwise noted on the drawings.*

MAINTENANCE NOTES

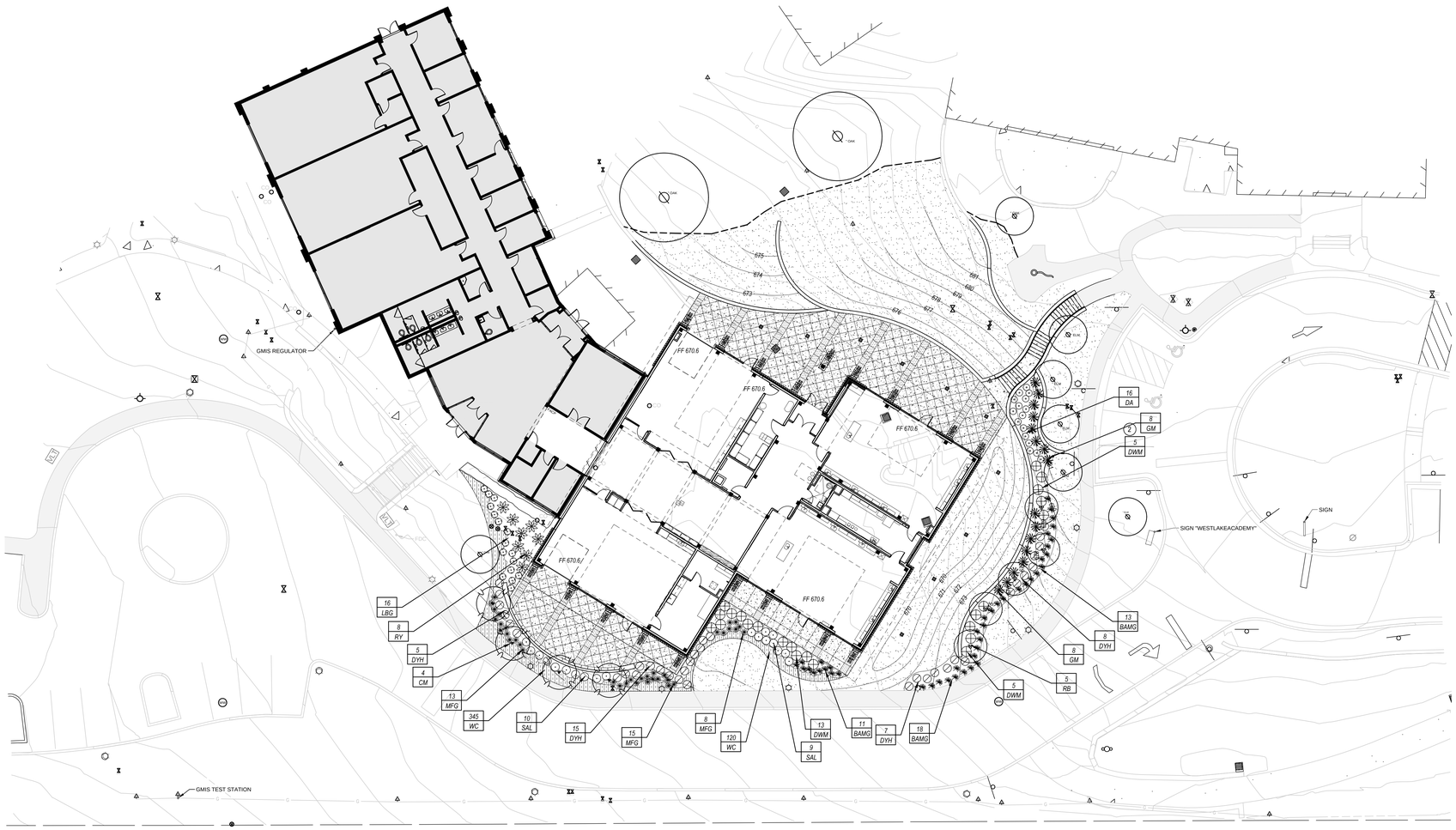
1. *The Owner, tenant and their agent, if any, shall be jointly and severally responsible for the maintenance of all landscape.*
2. *All landscape shall be maintained in a neat and orderly manner at all times. This shall include mowing, edging, pruning, fertilizing, watering, weeding and other such activities common to landscape maintenance.*
3. *All landscape areas shall be kept free of trash, litter, weeds and other such material or plants not part of this plan.*
4. *All plant material shall be maintained in a healthy and growing condition as is appropriate for the season of the year.*
5. *All plant material which dies shall be replaced with plant material of equal or better value.*
6. *Contractor shall provide separate bid proposal for one year's maintenance to begin after final acceptance.*

GENERAL LAWN NOTES

1. *Fine grade areas to achieve final contours indicated on civil plans.*
2. *Adjust contours to achieve positive drainage away from buildings. Provide uniform rounding at top and bottom of slopes and other breaks in grade. Correct irregularities and areas where water may stand.*
3. *All lawn areas to receive solid sod shall be left in a maximum of 1" below final finish grade. Contractor to coordinate operations with on-site Construction Manager.*
4. *Imported topsoil shall be natural, friable soil from the region, known as bottom and soil, free from lumps, clay, toxic substances, roots, debris, vegetation, stones, containing no salt and black to brown in color.*
5. *All lawn areas to be fine graded, irrigation trenches completely settled, and finish grade approved by the Owner's Construction Manager or Architect prior to installation.*
6. *All rocks 3/4" diameter and larger, dirt clods, sticks, concrete spoils, etc. shall be removed prior to placing topsoil and any lawn installation*
7. *Contractor shall provide (1") one inch of imported topsoil on all areas to receive lawn.*

SOLID SOD NOTES

1. *Fine grade areas to achieve final contours indicated. Leave areas to receive topsoil 3" below final desired grade in planting areas and 1" below final grade in turf areas.*
2. *Adjust contours to achieve positive drainage away from buildings. Provide uniform rounding at top and bottom of slopes and other breaks in grade. Correct irregularities and areas where water may stand.*
3. *All lawn areas to receive solid sod shall be left in a maximum of 1" below final finish grade. Contractor to coordinate operations with on-site Construction Manager.*
4. *Contractor to coordinate with on-site Construction Manager for availability of existing topsoil.*
5. *Plant sod by hand to cover indicated area completely. Insure edges of sod are touching. Top dress joints by hand with topsoil to fill voids.*
6. *Roll grass areas to achieve a smooth, even surface, free from unnatural undulations.*
7. *Water sod thoroughly as sod operation progresses.*
8. *Contractor shall maintain all lawn areas until final acceptance. This shall include, but not limited to: mowing, watering, weeding, cultivating, cleaning and replacing dead or bare areas to keep plants in a vigorous, healthy condition.*
9. *Contractor shall guarantee establishment of an acceptable turf area and shall provide replacement from local supply if necessary.*
10. *If installation occurs between September 1 and March 1, all sod areas to be over-seeded with Winter Ryegrass, at a rate of (4) pounds per one thousand (1000) square feet.*



PLANT LIST

TREES

QTY.	TYPE	COMMON NAME	*BOTANICAL NAME*	SIZE	REMARKS
4	CM	Crepe Myrtle 'Dallas Red'	*Lagerstroemia indica 'Dallas Red'*	10' ht.	container grown, 3-5 cane, no cross caning
5	RB	Redbud	*Cercis canadensis*	2" cal.	container grown, multi-trunk, 3 cane, no cross caning

SHRUBS

QTY.	TYPE	COMMON NAME	*BOTANICAL NAME*	SIZE	REMARKS
42	BAMG	Blonde Ambition Grass	*Bouteoula gracillis*	3 gal.	container grown, full plant specimen
16	DA	Dwarf Abelia 'Rasberry Fusion'	*Abelia sp. 'Rasberry Fusion'*	3 gal.	container grown, full plant specimen
23	DWM	Dwarf Wax Myrtle	*Myrica pusilla 'Don's Dwarf'*	3 gal.	container grown, full plant specimen
35	DYH	Dwarf Yaupon Holly	*Ilex vomitoria nana*	3 gal.	container grown, full plant specimen
16	GM	Gulf Muhly	*Muhlenbergia capillaris*	3 gal.	container grown, full plant specimen
16	LBG	Little Bunny Grass	*Pennisetum sp. 'Little Bunny'*	3 gal.	container grown, full plant specimen
36	MFG	Mexican Feathergrass	*Masella tennuissima*	3 gal.	container grown, full plant specimen
8	RY	Red Yucca	*Hesperaloe parviflolia*	3 gal.	container grown, full plant specimen
19	SAL	Salvia 'Furman's Red'	*Salvia greggii 'Furman's Red'*	3 gal.	container grown, full plant specimen

GROUNDCOVERS

QTY.	TYPE	COMMON NAME	*BOTANICAL NAME*	SIZE	REMARKS
465	WC	Wintercreeper Bermudagrass 'Tiffway 419'	*Euonymus fortunei coloratus* *Cynodon dactylon 'Tiffway 419'*	1 gal. roll sod	container, (6) 18" runners min., 12" o.c. solid sod, refer to notes

NOTE: Plant list is an aid to bidders only. Contractor shall verify all quantities on plan. All heights and spreads are minimums. All plant material shall meet or exceed remarks as indicated. All trees to have straight trunks and be matching within varieties.

GRAPHIC PLANT LEGEND

- *Existing Tree to Remain*
- *Crepe Myrtle 'Dallas Red', 10' ht.*
- *Redbud, 2" cal.*
- *Gulf Muhly, 3 gallon*
- *Red Yucca, 3 gallon*
- *Dwarf Wax Myrtle, 3 gallon*
- *Dwarf Abelia 'Rasberry Profusion', 3 gallon*
- *Salvia Greggii, 3 gallon*
- *Dwarf Yaupon Holly, 5 gallon*
- *Little Bunny Grass, 3 gallon*
- *Blonde Ambition Grass, 3 gallon*
- *Mexican Feathergrass, 3 gallon*
- *Wintercreeper, 1 gallon*
- *Lawn, Solid Sod*

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01 LANDSCAPE PLAN
SCALE: 1" = 16'-0"

0 8 16 32

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SUITE 100
DALLAS, TEXAS 75204
214.528.8704
BRWARCH.COM

BROOKE D. ADAMS 11675 LICENSED LANDSCAPE ARCHITECT STATE OF TEXAS
12.20.2026

smr
landscape architects, inc.
1700 Pacific Avenue
Dallas, Texas 75201
Telephone 214.871.0030
Fax 214.871.0645
Email smr@smr-la.com

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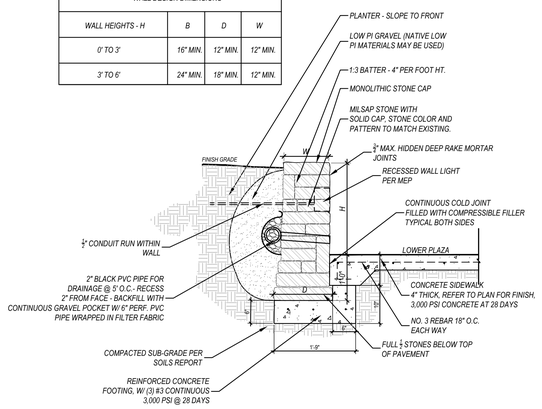
DATE	JANUARY 20, 2026
DRAWN BY	BDA
CHECKED BY	BDA
BRW PROJECT NUMBER	225057.00

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ARTS & SCIENCES ADDITION
2650 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

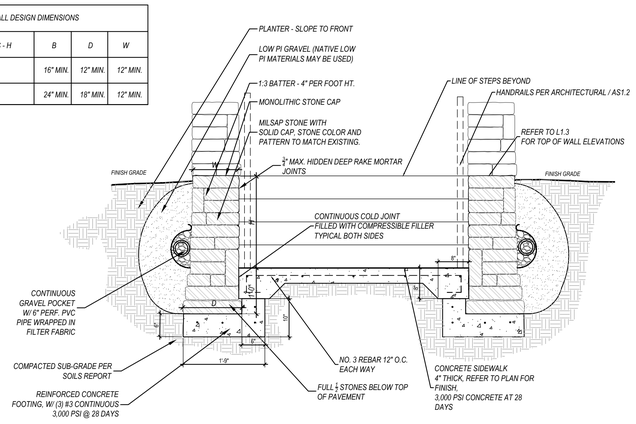
L1.1
LANDSCAPE PLAN

WALL DESIGN DIMENSIONS			
WALL HEIGHTS - H	B	D	W
0' TO 3'	16" MIN.	12" MIN.	12" MIN.
3' TO 6'	24" MIN.	18" MIN.	12" MIN.

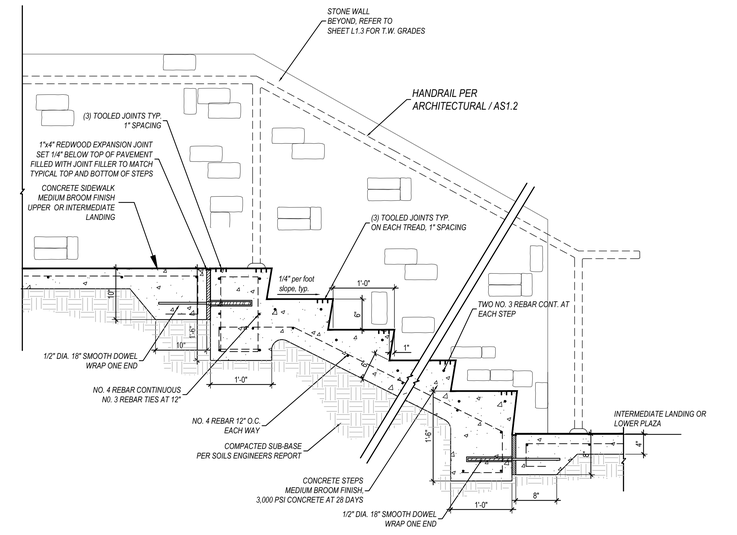


A STONE RETAINING WALL
SCALE: 3/4"=1'-0"

WALL DESIGN DIMENSIONS			
WALL HEIGHTS - H	B	D	W
0' TO 3'	16" MIN.	12" MIN.	12" MIN.
3' TO 6'	24" MIN.	18" MIN.	12" MIN.



B STONE RETAINING WALL WITH STAIR CUT
SCALE: 3/4"=1'-0"



C PARTIAL CONCRETE STAIR SECTION
SCALE: 1"=1'-0"



IMAGE OF EXISTING RETAINING WALL CONDITIONS. STONE TYPE AND PATTERN TO MATCH EXISTING

CONTRACTOR TO SUBMIT SEALED ENGINEERED SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION

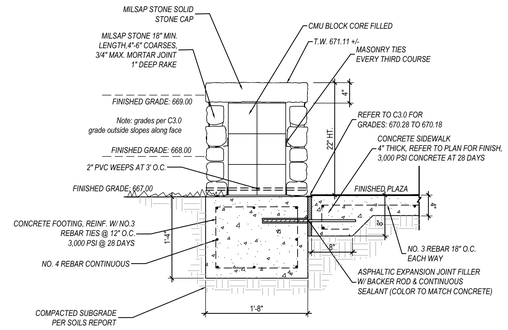
CONTRACTOR SUBMIT SAMPLES OF WALL STONE MATCHING EXISTING FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION

STONE NOTES

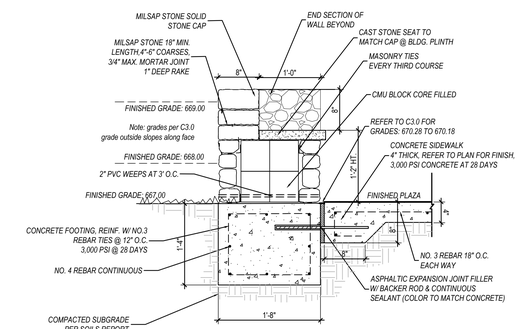
1. Contractor shall be required to submit samples of each stone type and obtain Architect and Owner approval prior to placing final order.
2. Stone shall be free of cracks, seams, or other defects which may impair its stength, durability, or appearance.
3. Setting of stone shall be performed by a competent craftsman with a minimum of ten (10) years experience.
4. Obtain stone from a quarry with consistent color range and texture throughout the work.
5. Construct sample panels of the following:
   A. Stone walls: 40 l.s.f.
6. Stone to be set in accordance with the guidelines established on the drawings and operations directed by the Architect in the field.
7. Stone setting that requires mortar shall be set so as to achieve a Hidden Joint with no signs of mortar setting or jointing visible.
8. Stone shall not be dropped or slid over other surfaces, nor shall hammering or turning of stones on other masonry units be allowed.
9. Related Materials:
   a. Masonry Cement: ASTM C 150, Type I, Portland
   b. Sand: ASTM C 144, Mason's
   c. Hydrated Lime: ASTM C 207, Type S
10. Mortar Mixes:
    a. Comply with ASTM C 270, Proportion Specification, Type S
    b. Minimum compressive strength of 570 psi at 28 days
    c. Maximum air content of 12%

CONCRETE NOTES

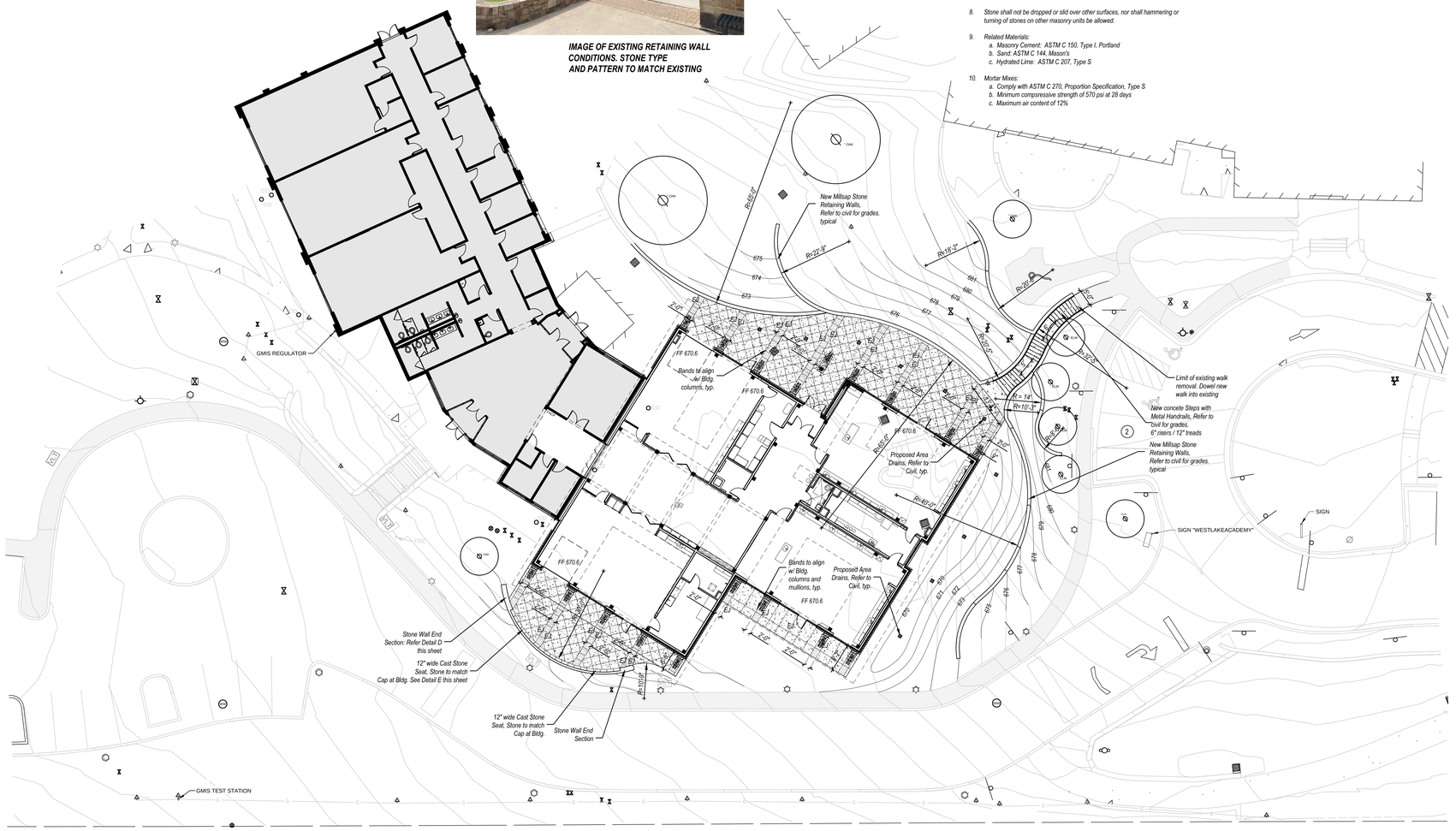
1. All concrete shall be in accordance with the A.C.I. standard "Building Code Requirements for Reinforced Concrete" (A.C.I. 318) latest revision.
2. All reinforcing steel shall be new domestic deformed billet steel conforming to ASTM A615, Grade 60 (60,000 PSI yield point).
3. Reinforcing bar supports and spacers shall be provided in accordance with the Manual of Standard Practice by the Concrete Reinforcing Steel Institute.
4. Concrete shall have a minimum compressive strength at 28 days of 3000 PSI.
5. Grade beam concrete protection of reinforcement shall be 2" minimum top and sides, 3" minimum bottom.
6. Maximum nominal coarse aggregate sizes for concrete in the slabs-on-grade shall be 3/4".
7. Concrete slumps shall be 4" maximum, 2" minimum.



D STONE WALL END SECTION
SCALE: 1"=1'-0"



E STONE SEATWALL SECTION
SCALE: 1"=1'-0"



GRAPHIC HARDSCAPE LEGEND

- MEDIUM BROOM FINISH CONCRETE with 3' sq. sawcut joints
- SANDBLAST FINISH CONCRETE
- EXISTING SIDEWALK TO REMAIN

EJ = INDICATES EXPANSION JOINT

01 HARDSCAPE PLAN
SCALE: 1" = 16'-0"

0 8 16 32

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3535 TRAVIS STREET SUITE 203
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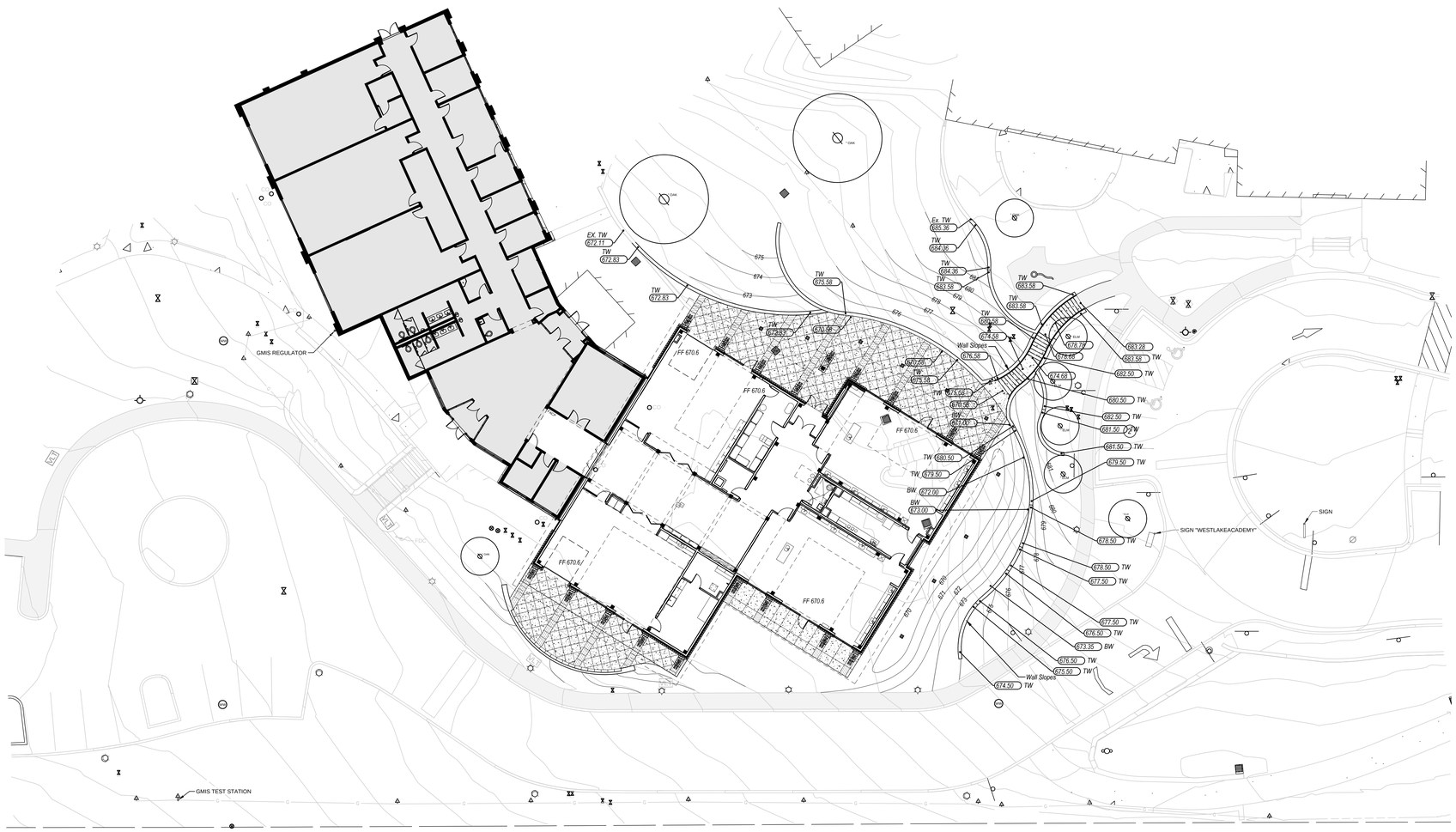
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DATE JANUARY 20, 2026
DRAWN BY BDA
CHECKED BY BDA
BRW PROJECT NUMBER 2250057.00

WESTLAKE ACADEMY ARTS & SCIENCES ADDITION
2400 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

L1.2
HARDSCAPE PLAN



GRAPHIC HARDSCAPE LEGEND

TW = INDICATES TOP OF WALL
BW = INDICATES BOTTOM OF WALL

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1-800-344-8377
811
TEXAS ONE CALL SYSTEM

01 HARDSCAPE PLAN: RETAINING WALL GRADES
SCALE: 1" = 16'-0"

0 8 16 32

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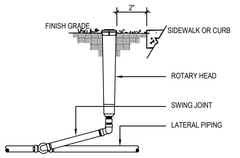
DATE	JANUARY 20, 2026
DRAWN BY	BDA
CHECKED BY	BDA
BRW PROJECT NUMBER	225057.00

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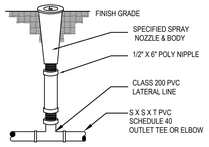
NO.	REVISION	DATE

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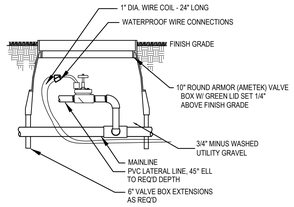
HARDSCAPE
PLAN
RETAINING WALL GRADES



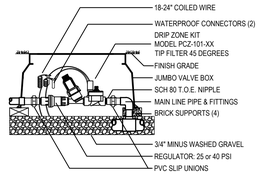
A ROTARY HEAD
NOT TO SCALE



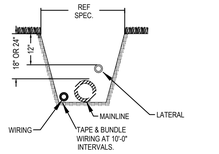
B POP-UP LAWN SPRAY ASSEMBLY
NOT TO SCALE



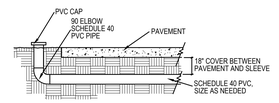
C REMOTE CONTROL VALVE
NOT TO SCALE



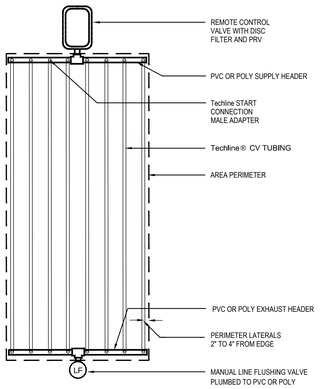
D DRIP CONTROL VALVE
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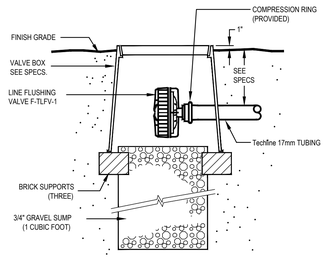
E TRENCH DETAIL
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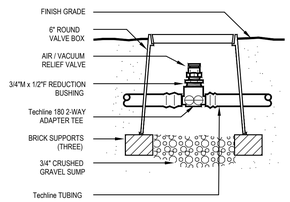
F SLEEVE DETAIL
NOT TO SCALE



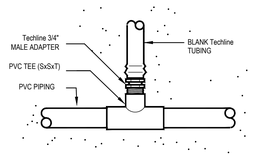
G TechLine CV END FEED LAYOUT
NOT TO SCALE



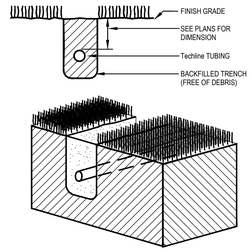
H TechLine LINE FLUSHING VALVE
NOT TO SCALE



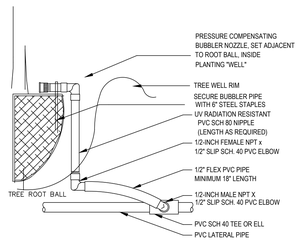
I TechLine AIR/VACUUM RELIEF
NOT TO SCALE



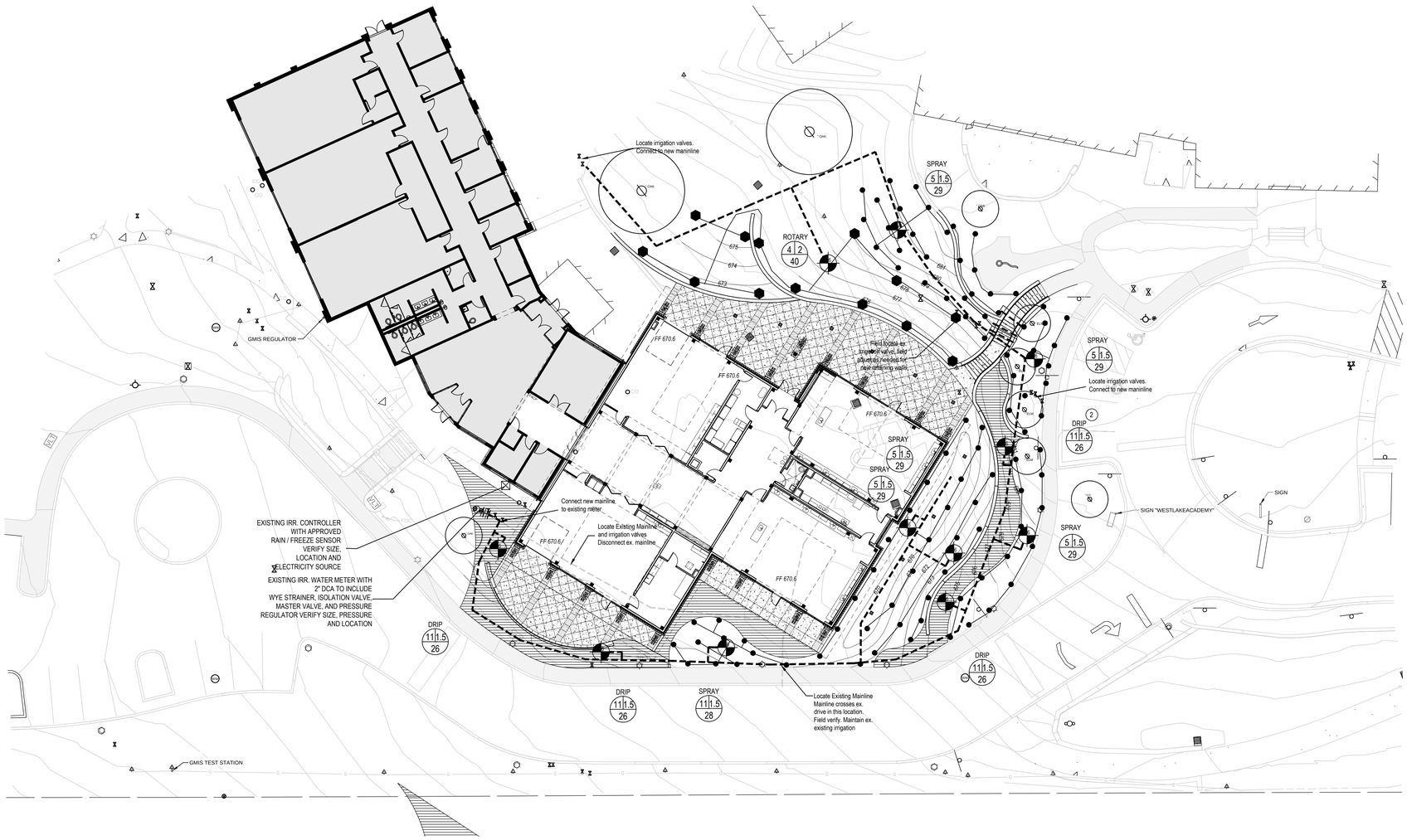
J TechLine START CONNECTION
NOT TO SCALE



K TechLine TRENCHING
NOT TO SCALE



L TREE BUBBLER
NOT TO SCALE



IRRIGATION LEGEND

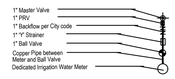
- RAINBIRD 1800-PRS 4" Pop-up Spray Head with a Plastic MPR Nozzle
- RAINBIRD 5004 ROTARY HEADS
- RAINBIRD 100-PGA Series Control Valves RAINBIRD XCZ-100-B-COM Med. Flow Zone Control Kit with Valve, Basket Filter, and Pressure Regulator
- EXISTING CONTROLLER
- EXISTING WATER METER, SIZE AS INDICATED D.C.A., SIZE AS INDICATED to Include Wye Strainer, Isolation Valve, Master Valve, and Pressure Regulator
- PVC CLASS 200 LATERAL LINE
- PVC CLASS 200 MAINLINE: 2"
- PVC SCHEDULE 40 SLEEVING: 4"
- VALVE SIZE GPM
- RAINBIRD XFD-06-18 (18" LATERAL SPACING, 12" EMITTER SPACING) PVC LATERAL PIPING SIZED AS REQUIRED INSTALL ALL EQUIPMENT ACCORDING TO MANUFACTURERS SPECIFICATIONS
- 1 1/2" NETA — RAINBIRD XCZ-100-B-COM INSTALL ALL EQUIPMENT ACCORDING TO MANUFACTURERS SPECIFICATIONS

TCEQ 2009 NOTES

- *All irrigation equipment to be located no closer than 4" to any pavement and / or structure*
- *Electrical splices at each valve and controller only.*
- *Irrigation in Texas is regulated by the Texas Commission on Environmental Quality (TECQ) MC-178 / P.O. BOX 13087 Austin, Texas 78711-3087 www.tceq.state.tx.us*

BUBBLER PIPING CHART

1-5 BUBBLERS - 1/2" PIPE
6-10 BUBBLERS - 3/4" PIPE
11-20 BUBBLERS - 1" PIPE
21-30 BUBBLERS - 1 1/4" PIPE
31-40 BUBBLERS - 1 1/2" PIPE



SLEEVING NOTES

1. *Contractor shall lay sleeves and conduits at twenty-four (24") inches below finish grade of the top of pavement.*
2. *Contractor shall extend sleeves one (1') foot beyond edge of all pavement.*
3. *Contractor shall cap pipe ends using PVC caps.*
4. *All sleeves shall be Schedule 40 PVC pipe.*
5. *Contractor shall furnish Owner and Irrigation Contractor with an 'as-built' drawing showing all sleeve locations.*

IRRIGATION NOTES

1. *All sprinkler equipment numbers reference the RAINBIRD equipment catalog unless otherwise indicated.*
2. *LAWN SPRAY HEADS to be installed as per detail shown.*
3. *SHRUB SPRAY HEADS to be installed as per detail shown.*
4. *ELECTRIC CONTROL VALVES shall be RAINBIRD PGA SERIES installed per detail shown. Size valves as sown on plan. Valves shall be installed in value boxes large enough to permit manual operation, removal of solenoid and/or valve cover without any earth excavation.*
5. *AUTOMATIC CONTROLLER shall be installed at location shown. Power (120V) shall be located in a junction box within five (5') feet of controller location by other trades.*
6. *All 24 volt valve wiring is to be UF 14 single conductor. All wire splices are to be permanent and waterproof.*
7. *SLEEVES shall be installed by General Contractor. Sleeve material shall be Schedule 40. Size as indicated on plan.*
8. *Ten days prior to start of construction, Landscape or Irrigation Contractor shall verify static water pressure. If static pressure is less than 65 P.S.I., do not work until notified to do so by Owner.*
9. *All main line and lateral piping to a minimum of 12 inches of cover. All piping under paving shall have a minimum of 18" of cover.*
10. *The Irrigation Contractor shall coordinate installation of the system with the Landscape Contractor so that all plant material will be watered in accordance with the intent of the plans and specifications.*
11. *The Irrigation Contractor shall select the proper arc and radius for each nozzle to insure 100% and proper coverage of all lawn areas and plant material. All nozzles in parking lot islands and planting beds shall be low angle to minimize over spray on pavement surfaces. No water will be allowed to spray on building.*

DRIP IRRIGATION NOTES

1. *Drip Irrigation Equipment numbers reference Rainbird Equipment Catalog unless otherwise noted.*
2. *Landscape Contractor shall be required to supply Owner's Construction Manager with all equipment specifications and maintenance guidelines.*
3. *Landscape Contractor shall be required to follow Manufacturer's Specifications and Installation guidelines for drip system.*
4. *PRESSURE COMPENSATING EMITTERS shall be: Multioutlet Rain Bug EMS-M101, Multi outlet Shrub Bug EMT6-M101 or approved equal. (1 PER EVERY 6 - 4" POTS)*
5. *SINGLE OUTLET PRESSURE COMPENSATING EMITTERS shall be: Rain Bug Emitters EM-Mx5, -M10, -M20 and Shrub Bug Emitters EMT-M10, -M20 or approved equal. (1 PER EACH 1 OR 5 GAL PLANT)*
6. *DRIP PRESSURE REGULATORS shall be: PSI-HLA-15, PSI-HLA-20, PSI-HMB-20, PSI-HMB-25 or approved equal.*
7. *Y-FILTERS shall be: RBY-075-200, RBY-100-200 or approved equal.*
8. *MAIN IRRIGATION TUBING shall be RBT-150P, RBT-160V or approved equal.*
9. *EMITTER DISTRIBUTION TUBING shall be: RBT-150P, RBT-160V or approved equal.*
10. *SUBTERRANEAN EMITTER BOX shall be: SEB-6 or approved equal.*
11. *Drip system piping only occurs within shrub / groundcover beds and rock mulch areas. Piping shall be a maximum 4" depth and a minimum 2" depth.*
12. *Contractor shall verify that all drip system valves and spray system valves are sectioned separately on controller.*

IRRIGATION REPAIR SPECIFICATIONS

1. *Contractor shall perform site visit prior to bidding and construction, to review extent of existing irrigation system.*
2. *Contractor shall be responsible for verifying conditions of existing irrigation system. Contractor shall be responsible for maintaining the integrity of existing irrigation where possible, and if not, repair as needed, including but not limited to irrigation controller, meter, sleeving, etc.*

CALL BEFORE YOU DIG 1-800-DIG-TEX (1-800-344-8339) TEXAS ONE CALL SYSTEM

01 IRRIGATION PLAN
SCALE: 1" = 16'-0"

0 8 16 32

ISSUE FOR PROPOSALS

BRWARCHITECTS
3535 TRAVIS STREET SUITE 203
DALLAS, TEXAS 75204
214-528-8704
BRWARCH.COM

BRIAN D. ADAMS 3175 REGISTERED LANDSCAPE ARCHITECT STATE OF TEXAS
04.20.2026

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DATE	JANUARY 20, 2026
DRAWN BY	BDA
CHECKED BY	BDA
BRW PROJECT NUMBER	2250057.00

WESTLAKE ACADEMY ARTS & SCIENCES ADDITION
2400 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

L2.1
LANDSCAPE PLAN

GENERAL NOTES

GENERAL

1. THE STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2021 EDITION.

2. THE LOADS THAT HAVE BEEN USED IN THE STRUCTURAL DESIGN INCLUDE THE FOLLOWING:

LIVE LOAD AT GROUND FLOOR	100 PSF
STORAGE AT GROUND FLOOR	150 PSF
LIVE LOAD AT ROOF	20 PSF

SNOW LOAD DESIGN DATA	PER ASCE 7-16
1. GROUND SNOW LOAD, P_g	5 PSF
2. FLAT-ROOF SNOW LOAD, P_f	5.5 PSF
3. SNOW EXPOSURE FACTOR, C_e	0.9
4. SNOW LOAD IMPORTANCE FACTOR, I_S	1.10

RAIN LOAD DESIGN DATA	PER ASCE 7-16
1. 15-MIN RAIN INTENSITY	7.91 IN/HR
2. 60-MIN RAIN INTENSITY	3.59 IN/HR
3. ROOF MEMBERS HAVE BEEN DESIGNED FOR A TOTAL (STATIC + HYDRAULIC) HEAD OF 3.8 WHICH IS EQUIVALENT TO A 20 PSF UNIFORM LOADING. ARCHITECT AND PLUMBING ENGINEER SHALL ENSURE THAT THE DRAINAGE SYSTEMS ARE PROPERLY DESIGNED SO AS NOT TO EXCEED THE STATED LOADING. REFER TO IBC 1611 AND LOCAL AMENDMENTS FOR ADDITIONAL INFORMATION.	

WIND LOADS DESIGN DATA	PER ASCE 7-16
1. BASIC WIND SPEED, V	112 MPH
2. NOMINAL DESIGN WIND SPEED, V_{ASD}	87 MPH
3. RISK CATEGORY	III
4. WIND EXPOSURE	C
5. INTERNAL PRESSURE COEFFICIENT (ENCLOSED)	±0.18
6. COMPONENTS AND CLADDING PRESSURES	REF. 1/S0.3

EARTHQUAKE LOAD DESIGN DATA	PER ASCE 7-16
1. RISK CATEGORY	III
2. SEISMIC IMPORTANCE FACTOR, I_E	0.105
3. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER	0.054
S_S	0.105
S_1	0.054
4. SITE CLASS	C
5. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER	
S_{DS}	0.0.91
S_{D1}	0.054
6. SEISMIC DESIGN CATEGORY	B
7. BASIC SEISMIC FORCE RESISTING SYSTEM(S)	LIGHT FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
8. RESPONSE MODIFICATION COEFFICIENT(S), R	6.5
9. SEISMIC RESPONSE COEFFICIENT(S), C_S	0.01
10. DESIGN BASE SHEAR(S)	0.01x W
11. ANALYSIS PROCEDURE:	EQUIVALENT LATERAL FORCE

ALL LIVE LOADS HAVE BEEN REDUCED BASED ON TRIBUTARY AREAS IN ACCORDANCE WITH CODE PROVISIONS AND HAVE BEEN APPLIED TO BOTH ALTERNATE AND ADJACENT SPANS WHERE APPROPRIATE TO DERIVE GOVERNING CONDITIONS.

DEAD LOADS HAVE BEEN CALCULATED TO INCLUDE THE ACTUAL WEIGHT OF ALL WORK SHOWN ON THE STRUCTURAL, MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS. NO OTHER EQUIPMENT SHALL BE PLACED ON OR HUNG FROM THE ROOF SYSTEM WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER. ROOF-MOUNTED HVAC UNITS SHALL BE PLACED WITHIN THE DESIGNATED AREAS SHOWN ON THE FRAMING PLANS.

3. COMPLETE SHOP DRAWINGS FOR THE STRUCTURAL WORK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF CONSTRUCTION IN ACCORDANCE WITH THE SPECIFICATIONS. SUCH REVIEW BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR CORRECT FABRICATION AND CONSTRUCTION OF THE WORK. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR MATERIALS PURCHASED PRIOR TO REVIEW OF SHOP DRAWINGS. THE CONTRACTOR SHALL REVIEW AND STAMP ALL SHOP DRAWINGS PRIOR TO SUBMITTING THE DRAWINGS TO THE ARCHITECT/ENGINEER.

4. THE USE OF ELECTRONIC FILES OR REPRODUCTION OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SHALL NOT BE PERMITTED.

5. ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO THE STRUCTURE OR ANY PART OF THE STRUCTURE DETAILED ON THESE DRAWINGS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN-WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING SUGGESTED.

6. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS NOT SHOWN AND FOR EXACT LOCATIONS OF ALL ARCHITECTURAL DETAILS. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMPLETION OF THE SHOP DRAWINGS.

7. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE ACTUAL CONDITIONS AND INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK.

8. PRINCIPAL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, CURBS, INSERTS AND OTHER OPENINGS NOT SHOWN. THE CONTRACTOR SHALL PROVIDE FOR ALL OPENINGS, WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT. SIZE AND LOCATION OF ALL OPENINGS SHALL BE VERIFIED BY THE CONTRACTOR. ANY DEVIATION FROM OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL PRIOR TO CONSTRUCTION.

9. THE STRUCTURAL DRAWINGS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, OR FIT OF MATERIALS.

10. THE GENERAL CONTRACTOR SHALL OBTAIN ALL CONTRACT DOCUMENTS & LATEST ADDENDA AND SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS OR FABRICATION OF ANY STRUCTURAL MEMBERS.

11. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKMEN AND OTHER PERSONS DURING CONSTRUCTION.

12. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITION WHICH, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS IN THE STRUCTURE.

13. CONSTRUCTION MATERIALS SHALL NOT BE STORED ON FLOORS OR ROOFS IN EXCESS OF THE DESIGN LIVE LOADS WHICH ARE INDICATED ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENFORCE THIS REQUIREMENT. IMPACT SHALL BE AVOIDED WHEN PLACING MATERIALS ON FLOORS OR ROOFS.

14. CONSTRUCTION SEQUENCE SHALL BE COORDINATED BY THE CONTRACTOR AS REQUIRED FOR INSTALLATION OF ALL STRUCTURAL COMPONENTS.

15. FIELD INSPECTION REPORTS SHALL BE SUBMITTED TO THE ENGINEER AS OUTLINED IN THE SPECIFICATIONS. INSPECTIONS SHALL BE PROVIDED BY A QUALIFIED AGENCY HIRED BY THE OWNER.

WELDING NOTES

1. WHEN WELDS ARE NOT CALLED OUT ON THE DRAWINGS, THEY ARE MINIMUM SIZE CONTINUOUS FILLET WELDS IN ACCORDANCE WITH AWS D1.1. FILLET WELDS NOT SPECIFIED AS TO LENGTH SHALL BE CONTINUOUS.

2. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL GROOVE WELDS SHALL BE FULL PENETRATION.

3. PROVIDE FILLET WELDS AT ALL CONTACT JOINTS BETWEEN STEEL MEMBERS SUFFICIENT TO DEVELOP THE ALLOWABLE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT UNLESS NOTED OTHERWISE ON THE DRAWINGS.

4. WELDING OF METAL FORM DECK SHALL CONFORM TO AWS D1.3.

5. WELDS AT DEFORMED BAR ANCHORS SHALL BE CONTINUOUS FILLET WELDS ALL AROUND WITH A MINIMUM WELD SIZE TO DEVELOP THE FULL STRENGTH OF THE BAR IN TENSION. ELECTRODES FOR WELDS AT DEFORMED BAR ANCHORS SHALL BE E80XX.

DEFERRED SUBMITTALS

1. THE CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL BUILDING COMPONENTS NOT EXPLICITLY DESIGNED AND DETAILED ON THE STRUCTURAL DRAWINGS AS REQUIRED. THE SUBMITTALS SHALL BE PROVIDED TO THE ARCHITECT/ENGINEER FOR REVIEW AND THE APPROVED SUBMITTALS SHALL BE PROVIDED TO THE CITY FOR THEIR RECORD.

2. DEFERRED SUBMITTALS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE STATE OF TEXAS. ALL SUBMITTALS SHALL INCLUDE CALCULATIONS FOR REVIEW. ALL DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

3. THE DEFERRED SUBMITTALS SHALL INCLUDE THE FOLLOWING ITEMS:
   A. TEMPORARY RETENTION SYSTEM IF REQUIRED BY EXCAVATION
   B. EXTERIOR WALL FRAMING
   C. COLD FORMED METAL FRAMING
   D. CURTAIN WALL / CLADDING AND CONNECTIONS
   E. STRUCTURAL STEEL CONNECTIONS
   F. COLD-FORMED METAL TRUSS SHOP DRAWINGS, PROFILES, CONNECTIONS AND CALCULATIONS
   G. COILING/ROLLING OVERHEAD DOOR SUPPORT FRAMING AND ATTACHMENTS

CURTAINWALL & STOREFRONT CONNECTIONS / SUPPORT

1. GLAZED CURTAINWALL / STOREFRONT MANUFACTURER SHALL PROVIDE ALL BRACING AND CONNECTIONS TO THE STRUCTURE. CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW.

CAST IN PLACE REINFORCED CONCRETE

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".

2. STEEL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT WELDED REINFORCEMENT WHICH SHALL CONFORM TO ASTM A706, GRADE 60. REINFORCEMENT SHALL NOT BE WELDED UNLESS SHOWN ON THE DRAWINGS. ALL HOOKS SHALL BE STANDARD ACI 90 DEGREE UNLESS NOTED OTHERWISE.

3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, GRADE 65. ALL WELDED WIRE FABRIC SHALL BE SUPPLIED IN FLAT SHEETS, NOT IN ROLLS. LAP WELDED WIRE FABRIC A MINIMUM OF 2 CROSSWIRE SPACINGS.

4. ALL CONCRETE SHALL UTILIZE NORMAL WEIGHT AGGREGATE UNLESS NOTED OTHERWISE.

5. CONCRETE SHALL MEET THE FOLLOWING PERFORMANCE CRITERIA:

LOCATION	28 DAY COMP. STRENGTH (f'c)	SLUMP (a)	MAX W/C RATIO
PIERS	3000 PSI	4" - 6"	-
GRADE BEAMS	4000 PSI	3" - 5"	0.45
SLAB ON VOIDS (b, c)	4000 PSI	3" - 5"	0.50

NOTES:
A. CONCRETE SLUMPS GIVEN ARE AT THE POINT OF PLACEMENT.
B. ALL EXTERIOR SLABS SHALL CONTAIN 3%-6% OF AIR ENTRAINMENT.
C. MAXIMUM SLAB POUR SHALL NOT EXCEED A LENGTH OF 150 FEET IN EITHER DIRECTION NOR AN AREA OF 10,000 SQUARE FEET.

6. REFERENCE ACI318-19 SECTION 20.5.1.3 FOR CONCRETE COVER REQUIREMENTS AS NOTED BELOW:

CONCRETE EXPOSED TO EARTH OR WEATHER	
CONCRETE CAST AGAINST EARTH	3"
FORMED CONCRETE (NO. 6 AND LARGER REINF.)	2"
FORMED CONCRETE (NO. 5 AND SMALLER REINF.)	1 1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER	
SLABS	3/4"
BEAMS	1 1/2"
COLUMNS	1 1/2"
WALLS	3/4"

7. THE TESTING LABORATORY SHALL BE NOTIFIED AFTER THE MILD STEEL REINFORCEMENT AND EMBEDS ARE POSITIONED PRIOR TO EACH CONCRETE PLACEMENT. NO CONCRETE SHALL BE PLACED UNTIL THESE ITEMS ARE CHECKED AND APPROVED BY THE TESTING LABORATORY.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE NEW STEEL AND SHALL CONFORM TO THE AISC "SPECIFICATION FOR STRUCTURAL STEEL FOR BUILDINGS". BOLTED CONNECTIONS (UNLESS NOTED OTHERWISE) SHALL CONFORM TO THE REQUIREMENTS OF THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".

2. STEEL SHAPES AND FASTENERS SHALL CONFORM TO THE ASTM SPECIFICATIONS BELOW:

SHAPE	ASTM
WIDE FLANGE	A992
CHANNELS	A36
ANGLES	A36
HSS	A500 Gr. B
PIPE	A53 Gr. B
PLATES	A36 (or A572 Gr. 50)
BASE PLATES	REF. SCHED.
BOLTS & ANCHORS	**ASTM**
HIGH STRENGTH BOLTS	A325 N
HEADED STUD ANCHOR	A108

3. ALL STRUCTURAL STEEL CONNECTIONS AND DETAILS SHALL CONFORM TO THE AISC "CODE OF STANDARD PRACTICE FOR STEEL, BUILDINGS AND BRIDGES."

4. WELDED CONSTRUCTION SHALL CONFORM TO AWS D-1.1, "STRUCTURAL WELDING CODE." WELDING PROCESSES AND OPERATORS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATIONS PROCEDURE." ELECTRODES FOR FIELD AND SHOP WELDS SHALL BE E70XX, U.N.O.

5. STEEL MEMBERS SHALL NOT BE SPLICED EXCEPT AS SHOWN ON THE DRAWINGS.

6. ALL STEEL BEAMS SHALL BE ERECTED WITH NATURAL CAMBER UP.

7. ALL EXTERIOR STEEL EXPOSED TO WEATHER, INCLUDING LINTELS, SHALL BE HOT-DIPPED GALVANIZED. FABRICATOR TO PREPARE MATERIAL TO BE GALVANIZED TO MEET THE GALVANIZER'S REQUIREMENTS AND THE SPECIFICATIONS.

8. CONNECTION DETAILS SHALL TAKE INTO CONSIDERATION CONSTRUCTION SEQUENCING AND POSSIBLE OBSTRUCTIONS FROM ADJACENT COMPONENTS SUCH AS RETAINING WALLS.

9. SUPPORTS FOR OVERHEAD DOORS AND ROLL-DOWN SECURITY DOORS SHALL BE DESIGNED AND PROVIDED BY DOOR MANUFACTURER. DOORS SHALL NOT BE SUPPORTED FROM BUILDING COLUMNS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.

PRE-ENGINEERED TRUSSES

1. COLD-FORMED TRUSSES SHALL BE DESIGNED AND FABRICATED TO CONFORM TO THE GEOMETRIES SHOWN ON THE DRAWINGS. WEB CONFIGURATIONS SHOWN ARE FOR PICTORIAL PURPOSES ONLY AND ARE TO BE DETAILED AS REQUIRED BY THE DESIGNER/FABRICATOR.

2. FABRICATOR SHALL SUBMIT SHOP DRAWINGS, INCLUDING DETAILED TRUSS LAYOUT AND TRUSS DETAILS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS, VERIFYING TRUSS ABILITY TO MEET CODE AND DESIGN REQUIREMENTS.

3. SUBMITTAL SHALL INCLUDE THE FOLLOWING:

   A. DESCRIPTION OF DESIGN CRITERIA.
   B. ENGINEERING ANALYSIS DEPICTING STRESSES AND TRUSS DEFLECTION.
   C. TRUSS MEMBER SIZES AND GAGES.
   D. TRUSS SUPPORT REACTIONS, INCLUDING UPLIFT.
   E. CONNECTIONS BETWEEN TRUSS MEMBERS, TRUSS-TO-TRUSS. CONNECTIONS AND CONNECTIONS TO SUPPORTING STRUCTURE.
   F. CONSTRUCTION OR ERECTION BRACING.
   G. TOP CHORD, BOTTOM CHORD AND WEB BRACING INCLUDING BOTH TEMPORARY ERECTION BRACING AND PERMANENT BRACING.
   H. DIAGONAL BRACING TO TRANSFER BRACE FORCES TO THE MAIN STRUCTURE.

4. THE FABRICATOR SHALL CERTIFY THAT THE DESIGN ENGINEER HAS SEEN BOTH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND IS FAMILIAR WITH THE ORIENTATION AND METHODS OF SUPPORT OF THE TRUSSES HE DESIGNED. THE TRUSS DESIGNS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS.

5. BRIDGING AND BRACING REQUIREMENTS SHALL BE PER TRUSS FABRICATOR. BRACING SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING COMPONENT SAFETY INFORMATION BOOKLET. TRUSS SUPPLIER AND ERECTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE BRACING AND MAKING SURE OF PROPER INSTALLATION OF BRACING AND TRUSSES DURING AND AFTER ERECTION.

6. TRUSS SUPPLIER SHALL VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF TRUSSES. TRUSSES ARE NOT DRAWN TO SCALE.

7. ROOF TRUSS LOADINGS: (ALL LOADINGS ARE BASED ON THE HORIZONTAL PROJECTION)

   A. DEAD LOAD (TOTAL) 30 PSF
   B. ROOF LIVE LOAD (TOTAL) 20 PSF

8. TRUSS DESIGNER SHALL DESIGN ROOF TRUSSES FOR ADDITIONAL LOADS AT MECHANICAL EQUIPMENT LOCATED BOTH ON THE ROOF AND IN ATTIC SPACE. VERIFY WEIGHTS AND LOCATIONS WITH MECHANICAL DESIGN DRAWINGS AND/OR MECHANICAL CONTRACTOR.

9. ALL TRUSSES SHALL BE DESIGNED TO CARRY SUPERIMPOSED DEAD AND SPECIFIED LIVE, SNOW, WIND & SEISMIC LOADS. DESIGN TOTAL LOADS SHALL BE VERIFIED BY THE REGISTERED ENGINEER RETAINED BY THE TRUSS SUPPLIER.

10. REF. 1/SO.3 FOR NET UPLIFT FORCES.

11. ALL TRUSSES SHALL BE DESIGNED WITH THE FOLLOWING DEFLECTION CRITERIA:

   A. ROOF TRUSSES:
      a. LIVE LOAD - L/360
      b. TOTAL LOAD - L/240

12. TRUSS DESIGNER SHALL BE RESPONSIBLE FOR ALL CONNECTIONS OF TRUSS SYSTEM TO SUPPORTING STRUCTURE. TRUSSES THAT DO NOT SIT FLUSH ON SUPPORTS SHALL BE SHIMMED. DO NOT PULL TRUSSES DOWN TO BEARINGS.

13. ALL TRUSSES TO BEAR ON CENTERLINE OF SUPPORT.

14. TRUSSES GROUPED TOGETHER SHALL BE FASTENED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SUBMITTED TO THE ENGINEER FOR REVIEW AS PART OF THE TRUSS SHOP DRAWINGS.

15. ALL TRUSSES SHALL BE SHOP FABRICATED. FIELD FABRICATION IS NOT PERMITTED EXCEPT AS DESCRIBED IN THE SPECIFICATIONS.

16. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

17. COLD-FORMED STEEL TRUSSES

   A. ALL CONNECTIONS TO USE MANUFACTURER'S RECOMMENDED FASTENERS OR WELDS AS SHOWN ON THE SHOP DRAWINGS.
   B. ALL MATERIAL TO BE GALVANIZED.
   C. INSTALLATION & BRACING SHALL COMPLY WITH THE REQUIREMENTS OF THE COLD FORMED STEEL BUILDING COMPONENT SAFETY INFORMATION BOOKLET PUBLISHED BY THE COLD-FORMED STEEL COUNCIL.

COLD FORMED METAL FRAMING

1. COLD FORMED METAL FRAMING MANUFACTURER SHALL DESIGN THE COMPLETE METAL FRAMING SYSTEM, INCLUDING BUT NOT LIMITED TO BRACING AND CONNECTIONS TO THE METAL STRUCTURE, UNLESS SHOWN ON STRUCTURAL DRAWINGS. CALCULATIONS AND SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW. GENERAL CONTRACTOR SHALL PROVIDE ALL COLD FORMED METAL FRAMING AS REQUIRED.

2. WITH EACH TYPE OF METAL FRAMING REQUIRED, PROVIDE MANUFACTURER'S STANDARD STEEL RUNNERS (TRACKS), BLOCKING LINTELS, CLIP ANGLES, SHOES, REINFORCEMENTS, FASTENERS, AND ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR APPLICATIONS INDICATED, AS NEEDED TO PROVIDE A COMPLETE METAL FRAMING SYSTEM.

3. FOR 16 GAUGE AND HEAVIER STUDS AND JOISTS, FABRICATE COMPONENTS OF STEEL SHEET WITH A MINIMUM YIELD POINT OF 50,000 PSI, CONFORMING TO ASTM A653 AND C955.

4. FOR 16 GAUGE AND HEAVIER TRACK, FABRICATE COMPONENTS OF STEEL SHEET WITH A MINIMUM YIELD POINT OF 33,000 PSI, CONFORMING TO ASTM A653 AND C955.

5. FOR 18 GAUGE AND LIGHTER STUDS, JOISTS, AND TRACK, FABRICATE COMPONENTS OF STEEL SHEET WITH A MINIMUM YIELD POINT OF 33,000 PSI, CONFORMING TO ASTM A653 AND C955.

6. PROVIDE MANUFACTURER'S STANDARD GALVANIZED FINISH TO METAL FRAMING COMPONENTS COMPLYING WITH ASTM A653.

7. THE COLD FORMED FRAMING DESIGN SHALL INCLUDE BUT SHALL NOT BE LIMITED TO THE FOLLOWING DESIGN ELEMENTS:

   - WALL STUDS INCLUDING JAMB LOCATIONS
   - HEADERS DESIGNED FOR GRAVITY AND LATERAL LOADING
   - TOP AND BOTTOM TRACKS INCLUDING ATTACHMENTS AT SLIP TRACKS
   - SHEAR WALL ELEMENTS INCLUDING FASTENING OF SHEATHING, HOLDOWNS, END WALL/CHORD ELEMENTS, AND TOP AND BOTTOM TRACKS WITH ATTACHMENTS TO ROOF AND FOUNDATION DIAPHRAGMS.
   - ALL CONNECTIONS SHALL SPECIFY SIZE AND QUANTITY OF FASTENERS
   - ANY BRACING OF METAL STUDS REQUIRED THAT IS NOT INDICATED ON THE STRUCTURAL DRAWINGS

8. MAXIMUM ALLOWABLE DEFLECTION FOR VERTICAL COLD FORMED GAUGE MEMBERS BACKING BRICK IS L/600 (L/360 FOR OTHER MATERIALS). DEFLECTION CALCULATIONS SHALL BE BASED ON ABSOLUTE DEFLECTIONS (NOT RELATIVE DEFLECTIONS).

9. DEFLECTION OF VERTICAL STUDS WITH PARAPET SHALL BE CALCULATED BASED ON ABSOLUTE DEFLECTION, NOT RELATIVE DEFLECTION.

EARTHWORK AND FOUNDATIONS

1. THE FOUNDATION DESIGN IS BASED ON A SUBSURFACE EXPLORATION AND REPORT BY UES. (PROJECT NO. W253381) DATED OCTOBER 13, 2025. THE CONTRACTOR SHALL OBTAIN A COPY OF THIS REPORT, AND THE REPORT SHALL BE CONSIDERED A PART OF THE CONTRACT DOCUMENTS.

2. A GEOTECHNICAL ENGINEER SHALL VERIFY THAT SOILS OF THE DESIGN BEARING CAPACITY HAVE BEEN ENCOUNTERED AND THAT THE BUILDING PAD IS SUITABLE FOR CONSTRUCTION.

3. THE FOUNDATION DESIGN IS BASED ON POTENTIAL SLAB TOTAL AND DIFFERENTIAL MOVEMENTS OF ONE (1) INCH AND ONE-HALF (1/2) INCH, RESPECTIVELY. THE SLAB/FOUNDATION DESIGN IS BASED ON THE "6.5 BUILDING FOUNDATION SYSTEM" SECTION OF THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL PREPARE THE SUBGRADE AS OUTLINED IN THE REPORT/SECTION.

4. DRILLED PIERS BEARING IN TAN AND GRAY LIMESTONE ARE DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 35,000 PSF. THESE VALUES ARE APPLICABLE ONLY FOR PIERS BEARING A MINIMUM OF 36 INCHES INTO THE TAN AND GRAY LIMESTONE. THE PIERS ARE DESIGNED FOR AN ALLOWABLE SKIN FRICTION VALUE OF 45,000 PSF. DESIGN SKIN FRICTION VALUES SHALL NEGLECT THE UPPER 3 FEET OF EMBEDMENT INTO THE TAN AND GRAY LIMESTONE.

5. AS AN ALTERNATE TO DRILLED PIERS, AUGER CAST PILES MAY BE USED. AUGER CAST PILES BEARING IN TAN AND GRAY LIMESTONE ARE DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 35,000 PSF. THESE VALUES ARE APPLICABLE ONLY FOR PILES BEARING A MINIMUM OF 36 INCHES INTO THE TAN AND GRAY LIMESTONE. THE PIERS ARE DESIGNED FOR AN ALLOWABLE SKIN FRICTION VALUE OF 45,000 PSF. DESIGN SKIN FRICTION VALUES SHALL NEGLECT THE UPPER 3 FEET OF EMBEDMENT INTO THE TAN AND GRAY LIMESTONE.

6. THE DRILLED PIER / AUGER CAST PILE INSTALLER SHALL PROVIDE EQUIPMENT AND PROCEDURES CAPABLE OF PENETRATING DENSE/HARD ZONES AS REQUIRED AND CONTROLLING AUGER ADVANCEMENT RATE THROUGHOUT THE ENTIRE DEPTH OF THE HOLE.

7. CAST IN PLACE STRUCTURAL SLABS SHALL BE CONSTRUCTED ON TWELVE (12) INCH VOID FORMS WITH A TOPPING SHEET AS REQUIRED BY THE "CONCRETE VOID BOX SYSTEM" SPECIFICATION. SLAB SHALL BE PLACED OVER A CONTINUOUS 10 MIL (MINIMUM) COMPOSITE MOISTURE BARRIER WITH A GEOTEXTILE LAYER FACING UP, DESIGNED TO ADHERE TO THE BOTTOM OF THE SLAB. REFER TO "UNDERSLAB VAPOR RETARDER" SPECIFICATION FOR SPECIFIC PERFORMANCE REQUIREMENTS AND ACCEPTABLE MANUFACTURERS. ALL SEAMS SHALL BE LAPPED 12 INCHES AND TAPED. VAPOR BARRIER SHALL CONFORM TO ASTM E 1745 CLASS A AND ASTM E 96 WITH A PERMEANCE RATING OF 0.01 PERMS OR LOWER.

8. ALL CAST IN PLACE CONCRETE GRADE BEAMS AND WALLS SHALL BE CONSTRUCTED ON TWELVE (12) INCH, RECTANGULAR SHAPED VOID FORMS. TRAPEZOIDAL FORMS SHALL NOT BE USED. PROVIDE CONTINUOUS SOIL RETAINERS ALONG EACH SIDE OF VOID FORMS. ALL GRADE BEAMS AND FOUNDATION WALLS SHALL BE FORMED OVER THEIR ENTIRE HEIGHT.

9. THERE SHALL BE NO CAPILLARY BREAK BETWEEN THE VOID FORMS AND THE SUPPORTING SOIL. VOID FORMS SHALL BE PLACED DIRECTLY ON NATIVE SOIL OR SELECT FILL THAT WILL ALLOW CAPILLARY ACTION.

10. A QUALIFIED GEOTECHNICAL ENGINEER SHALL BE PRESENT TO OVERSEE THE PIER INSTALLATION, TO EVALUATE THE SUBGRADE SOILS FOR SUITABILITY, TO DETERMINE THE SUITABILITY OF THE STRUCTURAL FILL AND TO TEST EACH LIFT OF THE STRUCTURAL FILL FOR DENSITY AND MOISTURE CONTENT. THE CONTRACTOR/OWNER SHALL USE THE SAME GEOTECHNICAL ENGINEER THAT PREPARED THE GEOTECHNICAL REPORT FOR FOUNDATION INSPECTIONS.

11. DRILLED PIERS / AUGER CAST PILES SHALL BE DRILLED, INSPECTED & CONCRETE PLACED WITHIN 4 HOURS OF DRILLING. A "MUSHROOM" AT THE TOP OF ANY DRILLED PIER / PILE WILL NOT BE ALLOWED. COMMERCIAL SURE-TOPS BY SURE VOID, INC. (OR APPROVED EQUAL) SHALL BE USED TO FORM TOP OF PIERS.

12. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND TESTING LABORATORY AT LEAST 24 HOURS PRIOR TO COMMENCEMENT OF DRILLED PIER / AUGER CAST PILE EXCAVATION.

13. AN AUGER CAST PILE LOAD TEST PROGRAM SHALL BE PERFORMED PRIOR TO PILE INSTALLATION TO ASSESS THE CAPACITY OF EACH OF THE PILE SIZES PER SECTION "6.5.2 AUGER CAST PILE (ALTERNATIVE)" OF THE GEOTECHNICAL REPORT IN COORDINATION WITH THE PILE CONTRACTOR AND THE GEOTECHNICAL ENGINEER.

14. A TEST PIER SHALL BE PERFORMED TO VERIFY GROUNDWATER CONDITIONS AND PIER CONSTRUCTABILITY JUST PRIOR TO CONSTRUCTION PER SECTION "6.5.1 STRAIGHT SHAFT DRILLED PIERS" OF THE GEOTECHNICAL REPORT IN COORDINATION WITH THE PIER CONTRACTOR AND THE GEOTECHNICAL ENGINEER.

15. IF GROUNDWATER SEEPAGE IS ENCOUNTERED DURING PIER CONSTRUCTION CASING MAY BE NECESSARY. ANY EXCESS WATER MUST BE REMOVED BEFORE PLACING CONCRETE. CONTRACTOR SHALL INCLUDE THE COST OF CASING ALL PIERS IN THE BASE BID. UNIT COSTS SHALL ALSO BE INCLUDED FOR ADDITIONAL DEPTHS AND/OR CREDITS FOR PIERS THAT DO NOT REQUIRE CASING.

16. CONCRETE SHALL BE PLACED IN PIERS WITH A TREMIE. CONCRETE SHALL NOT BE ALLOWED TO FALL MORE THAN 6 FEET THROUGH THE REBAR CAGE.

17. DRILLED PIERS / AUGER CAST PILES SHALL BE CONSTRUCTED WITHIN THE FOLLOWING CENTERLINE TOLERANCES:

   - MAXIMUM PERMISSIBLE VARIATION OF LOCATION NOT MORE THAN 1".
   - SHAFTS OUT OF PLUMB, NOT MORE THAN 1.5% OF LENGTH.
   - CONCRETE CUTOFF ELEVATION, PLUS 1" TO MINUS 2"

18. POSITIVE SITE DRAINAGE SHALL BE MAINTAINED TO DIVERT WATER AWAY FROM THE BUILDING AREAS. WEATHER PERIODS WILL PRODUCE PROBLEMS DUE TO SOIL SATURATION. CONSULT THE GEOTECHNICAL REPORT OR THE GEOTECHNICAL ENGINEER FOR METHODS OF IMPROVING HIGHLY SATURATED SOILS.

19. THE ABOVE REQUIREMENTS ARE A SUMMARY OF THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL NOT BE ABSOLVED FROM THE RESPONSIBILITY OF REVIEWING AND COMPLYING WITH THE ENTIRE GEOTECHNICAL REPORT.

WOOD CONSTRUCTION

1. PREPARATION, FABRICATION, AND INSTALLATION OF WOOD MEMBERS AND FASTENING SHALL CONFORM TO ACCEPTED ENGINEERING PRACTICES AND TO THE REQUIREMENTS OF TH

SPECIAL INSPECTIONS PER IBC 2021

1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER IBC SECTION 1704. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING INSPECTION.

2. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN IBC SECTION 110.

3. REPORTS:

   A. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT THE WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS.

   B. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.

   C. A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PERIODICALLY AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF THE WORK.

4. INSPECTIONS REQUIRED:

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION (SECTION 1705.3 AND TABLE 1705.3)

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD[A]	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	-	X	ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3	-
2. REINFORCING BAR WELDING:				
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	-	-	AWS D1.4 ACI 318: 26.6.4	-
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	-	X		
C. INSPECT ALL OTHER WELDS	X	X		
3. INSPECT ANCHORS CAST IN CONCRETE	-	X	ACI 318: 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS [B]				
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X	-	ACI 318: 17.8.2.4 ACI 318: 17.8.2	-
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A	-	X		
5. VERIFY USE OF REQUIRED MIX DESIGN	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	-	ASTM C31 ASTM C172 ACI 318: 26.5, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318: 26.5	-
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X	ACI 318: 26.5.3-26.5.5	-
9. INSPECT PRESTRESSED CONCRETE FOR:				
A. APPLICATION OF PRESTRESSING FORCES	X	-	ACI 318: 26.10	-
B. GROUTING OF BONDED PRESTRESSING TENDONS	X	-		
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	-	X	ACI 318: 26.9	-
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC CATEGORY C, D, E OR F. INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR:				
A. INSTALLATION OF THE EMBEDDED PARTS	X	-	ACI 318: 26.13.1.3 ACI 550.5	-
B. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS	X	-		
C. COMPLETION OF CONNECTIONS IN THE FIELD	X	-		
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5	-	X	ACI 318: 26.13.1.3	-
13. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	-	X	ACI 318: 26.11.2	-
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	-	X	ACI 318: 26.11.1.2(B)	-

(A) WHERE APPLICABLE, SEE SECTION 1705.13, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE
(B) SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF THE WORK.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS (SECTION 1705.6 AND TABLE 1705.6)

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	-	X
4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	-	X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS (SECTION 1705.8 AND TABLE 1705.8)

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	X	-
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES	X	-
3. FOR CONCRETE ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3	IN ACCORDANCE WITH SECTION 1705.3	

REQUIRED VERIFICATION AND INSPECTION OF WOOD CONSTRUCTION

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. INSPECTION OF WOOD FRAMING INCLUDING SIZE, GRADE, SPECIES AND ANY REQUIRED TREATMENTS SUCH AS PRESSURE OR FIRE RETARDANT TREATMENTS.	X	-
2. PLYWOOD DIAPHRAGM FASTENING		
A. INSPECTION OF FASTENERS FOR HORIZONTAL DIAPHRAGMS (ROOF DECK).	-	X
B. INSPECTION OF FASTENERS FOR SHEAR WALLS INTO WOOD FRAMING.	-	X
3. INSPECTION OF DIAPHRAGM AND SHEAR WALL CONSTRUCTION INCLUDING MEMBER SIZES, CONFIGURATION, BLOCKING, PANEL GRADE AND THICKNESS.	-	X
4. HOLD-DOWNS AND TIE DOWNS		
A. INSPECT SIZE, TYPE AND LOCATIONS OF HOLD-DOWN ANCHORS CAST IN CONCRETE.	X	-
B. INSPECT HOLD-DOWN TYPE AND MODEL. INSPECT THE FRAMING AND HOLD-DOWN ATTACHMENT.	-	X
5. INSPECTION OF METAL FRAMING CONNECTORS USED TO TIE TOGETHER THE LATERAL FORCE RESISTING ELEMENTS SUCH AS STRAPS AND CHORD SPLICES. (VERIFY ALL WOODPLACE AND LEDGER SPLICES).	-	X
6. INSPECTION OF HOLD-DOWN CONNECTORS AT ROOF & FLOOR FRAMING.	-	X
7. INSPECTION OF SILL PLATES AND SILL PLATE FASTENERS INCLUDING WASHERS.	-	X
8. INSPECT ALL NAILING FOR CONFORMANCE WITH NAILING SCHEDULE REQUIREMENTS.	-	X
9. METAL-PLATE-CONNECTED WOOD TRUSSES		
A. FOR TRUSSES WITH OVERALL HEIGHT >60 INCHES, VERIFY INSTALLATION OF PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT, BRACING IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.	-	X

AISC 360-16 TABLE N5.4-1 INSPECTION TASKS PRIOR TO WELDING OF STEEL

INSPECTION TASKS PRIOR TO WELDING	QUALITY CONTROL	QUALITY ASSURANCE
1. WELDER QUALIFICATION RECORDS AND CONTINUITY RECORD	PERFORM	OBSERVE
2. WELDING PROCEDURE SPECIFICATIONS AVAILABLE	PERFORM	PERFORM
3. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	PERFORM	PERFORM
4. MATERIAL IDENTIFICATION (TYPE/GRADE)	OBSERVE	OBSERVE
5. WELDER IDENTIFCATION SYSTEM (A)	OBSERVE	OBSERVE
6. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	OBSERVE	OBSERVE
7. FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	OBSERVE	OBSERVE
8. CONFIGURATION AND FINISH OF ACCESS HOLES	OBSERVE	OBSERVE
9. FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	OBSERVE	OBSERVE
10. CHECK WELDING EQUIPMENT	OBSERVE	OBSERVE

(A) THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.

AISC 360-16 TABLE N5.4-2 INSPECTION TASKS DURING WELDING OF STEEL

INSPECTION TASKS DURING WELDING	QUALITY CONTROL	QUALITY ASSURANCE
1. CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	OBSERVE	OBSERVE
2. NO WELDING OVER CRACKED TACK WELDS	OBSERVE	OBSERVE
3. ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	OBSERVE	OBSERVE
4. WELDING PROCEDURE SPECIFICATIONS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) • PROPER POSITION (F,V, H, OH)	OBSERVE	OBSERVE
5. WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	OBSERVE	OBSERVE
6. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	PERFORM	PERFORM

AISC 360-16 TABLE N5.4-3 INSPECTION TASKS AFTER WELDING OF STEEL

INSPECTION TASKS AFTER WELDING	QUALITY CONTROL	QUALITY ASSURANCE
1. WELDS CLEANED	OBSERVE	OBSERVE
2. SIZE, LENGTH AND LOCATION OF WELDS	PERFORM	PERFORM
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	PERFORM	PERFORM
4. ARC STRIKES	PERFORM	PERFORM
5. k-AREA (A)	PERFORM	PERFORM
6. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES (B)	PERFORM	PERFORM
7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	PERFORM	PERFORM
8. REPAIR ACTIVITIES	PERFORM	PERFORM
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	PERFORM	PERFORM
10. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	OBSERVE	OBSERVE

(A) WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3 INCHES (75mm) OF THE WELD.
(B) AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.

AISC 360-16 SECTION N5.5 NONDESTRUCTIVE TESTING OF WELDED JOINTS

SPECIAL INSPECTION TASKS	QUALITY CONTROL	QUALITY ASSURANCE
5B. ULTRASONIC TESTING (UT) SHALL BE PERFORMED ON COMPLETE-JOINT-PENETRATION (CJP) GROOVE WELDS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, T- AND CORNER JOINTS, IN MATERIAL 5/16" THICK OR GREATER AS FOLLOWS:		
A. 100% FOR STRUCTURES IN RISK CATEGORY III OR IV	-	PERFORM
B. 10% FOR STRUCTURES IN RISK CATEGORY II		
5C. WELDED JOINTS SUBJECTED TO FATIGUE AS REQUIRED BY APPENDIX 3, TABLE A-3.1	-	PERFORM

AISC 360-16 TABLE N5.6-1 INSPECTION TASKS PRIOR TO BOLTING OF STEEL

INSPECTION TASKS PRIOR TO BOLTING	QUALITY CONTROL	QUALITY ASSURANCE
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	OBSERVE	PERFORM
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	OBSERVE	OBSERVE
3. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	OBSERVE	OBSERVE
4. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	OBSERVE	OBSERVE
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	OBSERVE	OBSERVE
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	PERFORM	OBSERVE
7. PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	OBSERVE	OBSERVE

AISC 360-16 TABLE N5.6-2 INSPECTION TASKS DURING BOLTING OF STEEL

INSPECTION TASKS DURING BOLTING	QUALITY CONTROL	QUALITY ASSURANCE
1. FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	OBSERVE	OBSERVE
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	OBSERVE	OBSERVE
3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	OBSERVE	OBSERVE
4. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	OBSERVE	OBSERVE

AISC 360-16 TABLE N5.6-3 INSPECTION TASKS AFTER BOLTING OF STEEL

INSPECTION TASKS AFTER BOLTING	QUALITY CONTROL	QUALITY ASSURANCE
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	PERFORM	PERFORM

AISC 360-16 SECTION N5.7 INSPECTION OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS

SPECIAL INSPECTION TASK	ACTION
1. EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF RECTANGULAR HSS SHALL BE VISUALLY INSPECTED FOR CRACKS SUBSEQUENT TO GALVANIZING. CRACKS SHALL BE REPAIRED OR THE MEMBER SHALL BE REJECTED	PERFORM

AISC 360-16 SECTION N5.8 OTHER STEEL INSPECTION TASKS

SPECIAL INSPECTION TASK	ACTION
1. FABRICATOR'S QCI SHALL INSPECT THE FABRICATED STEEL TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE SHOP DRAWINGS. THIS INCLUDES SUCH ITEMS AS THE CORRECT APPLICATION OF SHOP JOINT DETAILS AT EACH CONNECTION	PERFORM AND DOCUMENT
2. ERECTOR'S QCI SHALL INSPECT THE ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE FIELD INSTALLED DETAILS SHOWN ON THE ERECTION DRAWINGS. THIS INCLUDES SUCH ITEMS AS BRACES, STIFFENERS, MEMBER LOCATIONS AND CORRECT APPLICATION OF FIELD JOINT DETAILS AT EACH CONNECTION	PERFORM AND DOCUMENT
3. THE QAI SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, SHALL BE VERIFIED AND DOCUMENTED PRIOR TO PLACEMENT OF CONCRETE	PERFORM AND DOCUMENT
4. THE QAI SHALL INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME, AS APPLICABLE, TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS. THIS INCLUDES SUCH ITEMS AS BRACES, STIFFENERS, MEMBER LOCATIONS AND THE CORRECT APPLICATION OF JOINT DETAILS AT EACH CONNECTION	PERFORM AND DOCUMENT

STRUCTURAL INTEGRITY OF DEEP FOUNDATION ELEMENTS (SECTION 1705.10)

TYPE	ACTION	REFERENCE FOR CRITERIA
1. 1. WHENEVER THERE IS A REASONABLE DOUBT AS TO THE STRUCTURAL INTEGRITY OF A DEEP FOUNDATION ELEMENT, AN ENGINEERING ASSESSMENT SHALL BE REQUIRED. THE ENGINEERING ASSESSMENT SHALL INCLUDE TESTS FOR DEFECTS IN ACCORDANCE WITH THE LISTED REFERENCES.	PERFORM AND DOCUMENT	ASTM D4945, ASTM D5882, ASTM D6760 OR ASTM D7949, OR OTHER APPROVED METHOD

FABRICATED ITEMS (SECTION 1705.11)

TYPE	ACTION	REFERENCE FOR CRITERIA
1. 1. SPECIAL INSPECTIONS OF FABRICATED ITEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE LISTED REFERENCES	PERFORM	1704.2.5

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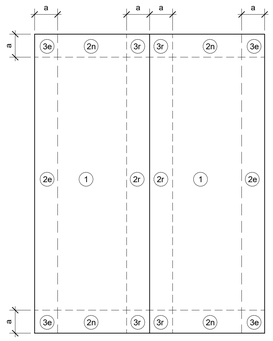
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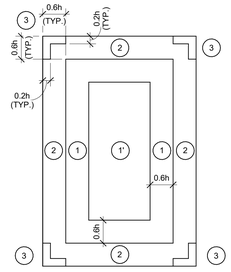
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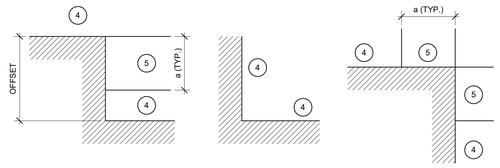
SPECIAL INSPECTIONS



PLAN VIEW OF ZONE APPLICATION
FOR ENCLOSED GABLE ROOFS WITH 7°<θ≤20°



PLAN VIEW OF ZONE 1'/1/2/3 APPLICATION
FOR ENCLOSED FLAT ROOFS θ≤7°



BUILDING OFFSET > a | INTERIOR CORNER | EXTERIOR CORNER

PLAN VIEW OF ZONE 4/5 APPLICATION

H ≤ 30 FT & 5:12 ROOF SLOPE

ZONE	WIND PRESSURE (PSF) BASED ON EFFECTIVE WIND AREA			
	10 FT²	100 FT²	500 FT²	NOTES
ALL (+)	18	12	12	
1, 2e (-)	-42	-32	-25	
2n, 2r, 3e (-)	-67	-40	-35	
3r (-)	-78	-49	-49	
1, 2e (-)	-54	-52	-49	OVERHANG PRESSURE
2n, 2r (-)	-79	-62	-60	OVERHANG PRESSURE
3e (-)	-94	-54	-47	OVERHANG PRESSURE
3r (-)	-100	-62	-62	OVERHANG PRESSURE

H ≤ 30 FT

ZONE	WIND PRESSURE (PSF) BASED ON EFFECTIVE WIND AREA			
	10 FT²	20 FT²	50 FT²	100 FT²
1, 2, 3 (+)	12	11	10	10
1' (-)	-27	-27	-27	-27
1 (-)	-46	-43	-39	-36
2 (-)	-61	-57	-52	-48
3 (-)	-83	-75	-65	-57

H ≤ 20 FT

ZONE	WIND PRESSURE (PSF) BASED ON EFFECTIVE WIND AREA			
	10 FT²	20 FT²	50 FT²	100 FT²
4 , 5 (+)	29	28	26	25
4 (-)	-32	-31	-29	-28
5 (-)	-39	-37	-33	-31

20 FT < H ≤ 30 FT

ZONE	WIND PRESSURE (PSF) BASED ON EFFECTIVE WIND AREA			
	10 FT²	20 FT²	50 FT²	100 FT²
4 , 5 (+)	33	32	30	28
4 (-)	-36	-35	-33	-31
5 (-)	-44	-42	-38	-35

NOTES:

1. PRESSURES PROVIDED ARE ULTIMATE LOADS (1.0W) CALCULATED PER ASCE 7-16.
2. PRESSURES ARE BASED ON THE BASIC WIND SPEED PROVIDED IN GENERAL NOTES.
3. PRESSURES SHOWN INCLUDE A DIRECTIONALITY FACTOR, Kd, OF 0.85.
4. PRESSURES SHOWN ACCOUNT FOR INTERNAL PRESSURES BASED ON AN INTERNAL PRESSURE COEFFICIENT OF ±0.18.
5. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARDS AND AWAY FROM SURFACES, RESPECTIVELY.
6. H = ROOF HEIGHT (FT)
7. EDGE DISTANCE (a) = THE LESSER OF 10% OF THE LEAST HORIZONTAL DIMENSION OR 0.4*H, BUT NOT LESS THAN 4% OF THE LEAST HORIZONTAL DIMENSION OR 3 FT.

1 COMPONENTS AND CLADDING WIND DIAGRAMS

1/8" = 1'-0"

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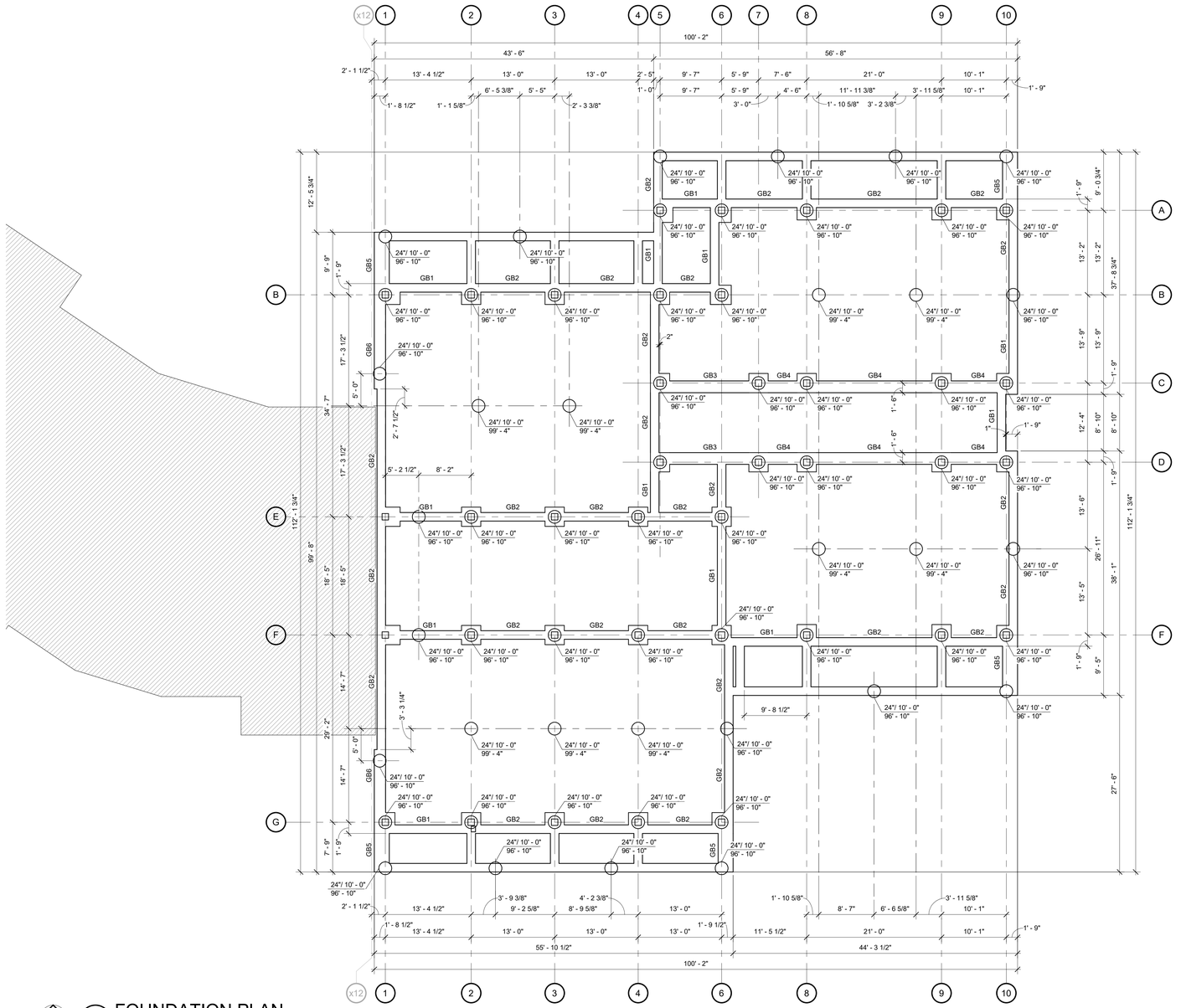
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S0.3

BUILDING DIAGRAMS



PLAN NORTH

1 FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. DATUM ELEVATION = 100'-0", CORRESPONDS WITH ACTUAL ELEVATION PER CIVIL/ARCHITECTURE.
2. PIERS SHALL BE LOCATED AT CENTERLINES OF COLUMNS OR CENTERED BENEATH GRADE BEAMS AND WALLS UNLESS NOTED OTHERWISE.
3. REFER TO 1/S2.1 FOR PIER DETAIL AND REINFORCEMENT SCHEDULE.
4. REFER TO 1/S2.2 FOR GRADE BEAM SCHEDULE.
5. REFER TO 3/S2.2 FOR PILASTER SCHEDULE AND TYPICAL DETAILS.
6. REFER TO 3/S2.1 FOR COLUMN BASE EMBED PLATE .
7. GENERAL CONTRACTOR SHALL VERIFY ALL BRICK LEDGE ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
8. REFER TO S1.2 SLAB PLANS FOR SLAB INFORMATION, SECTION MARKS AND OTHER INFORMATION THAT IS NOT SHOWN ON FOUNDATION PLANS.
9. REFER TO 4/S2.1 FOR TYPICAL CORNER BARS AT GRADE BEAMS AND WALLS.
10. REFER TO ARCHITECTURAL AND MECHANICAL/PLUMBING DRAWINGS FOR ALL SLEEVES THROUGH SLAB AND GRADE BEAMS. REFER TO 4/S2.2 FOR VERTICAL AND 6/S2.2 FOR HORIZONTAL PENETRATIONS IN GRADE BEAMS.
11. REFER TO 7/S2.2 FOR ROOF DRAIN PENETRATIONS THROUGH SLAB AND GRADE BEAMS.
12. REFER TO 5/S2.1 FOR TYPICAL GRADE BEAM CONSTRUCTION JOINT.
13. REFER TO 1/S2.3 AT GRADE BEAM INTERSECTIONS.
14. REFER TO 2/S2.1 FOR THE TYPICAL SHEAR WALL HOLDOWN DETAIL. REFER TO THE FOUNDATION PLAN ON SHEET S1.2 FOR SHEAR WALL LOCATIONS.

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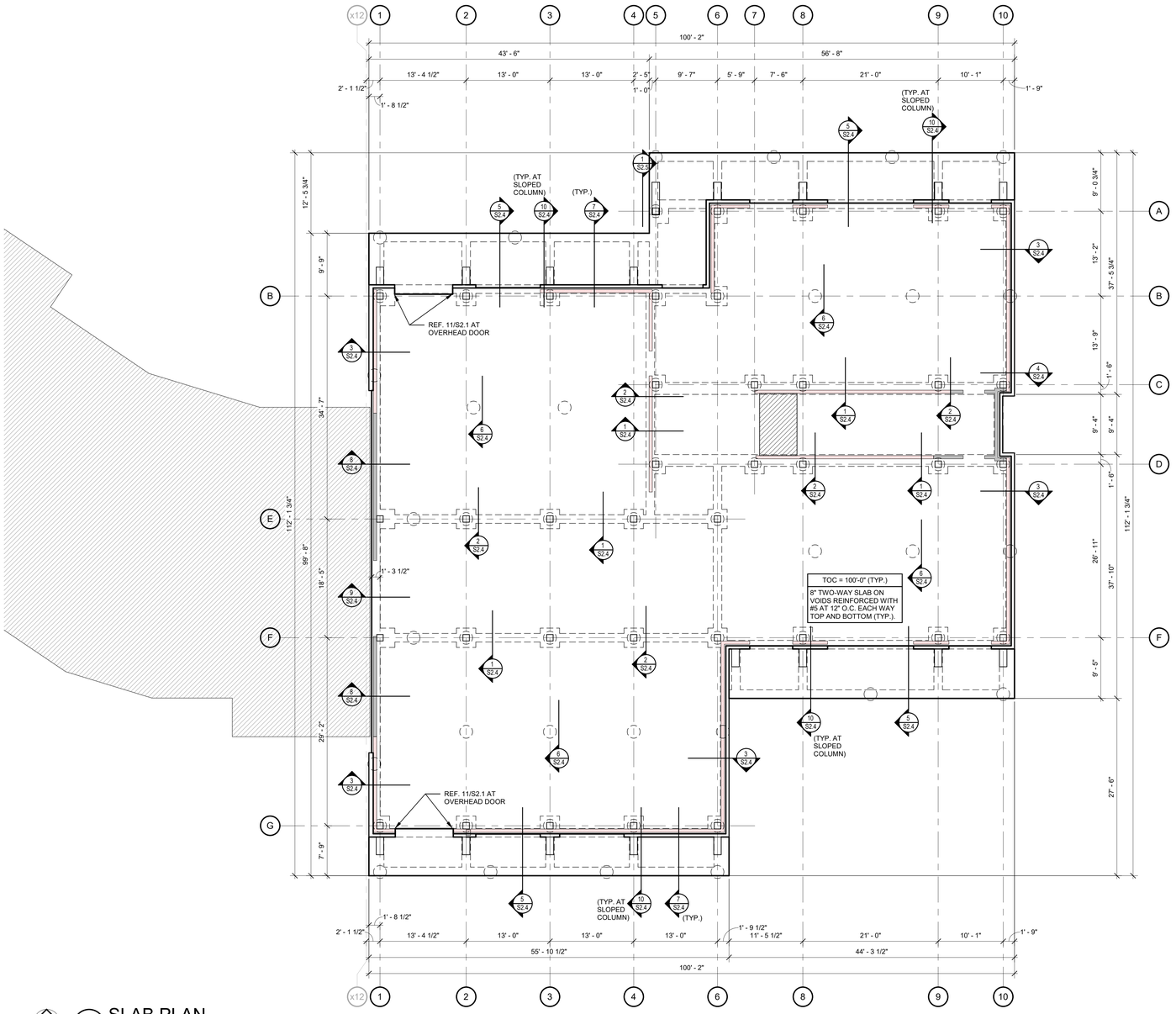
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S1.1

FOUNDATION PLAN



PLAN NORTH

1 SLAB PLAN

1/8" = 1'-0"

SLAB PLAN NOTES:

1. DATUM ELEVATION = 100'-0", CORRESPONDS WITH ACTUAL ELEVATION PER CIVIL/ARCHITECTURE.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
3. INDICATES SLAB SLOPING TO DRAIN. SPECIFIED CONCRETE THICKNESS SHALL BE MAINTAINED, REFER TO 9/S2.1 FOR ADDITIONAL INFORMATION. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND EXTENTS.
4. GENERAL CONTRACTOR SHALL VERIFY ALL BRICK LEDGE ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
5. REFER TO ARCHITECTURAL/MEP DRAWINGS FOR ALL PENETRATIONS THROUGH SLABS.
6. REFER TO SHEET S2.3 FOR TWO-WAY SLAB DETAILS.
7. INDICATES SHEAR WALL LOCATIONS. REFER TO FLOOR LEVEL FOR ADDITIONAL INFORMATION.
8. REFER TO S1.1 SERIES FOR FOUNDATION INFORMATION NOT SHOWN ON SLAB PLANS.
9. SAWCUTTING OF THE STRUCTURAL SLAB IS NOT PERMITTED.
10. REFER TO 6/S2.1 FOR TYPICAL ADDITIONAL REINFORCING AT SLAB RE-ENTRANT CORNERS.
11. REFER TO 4/S2.3, 5/S2.3, AND 6/S2.3 FOR TYPICAL COLUMN LEAVE-OUTS AT PILASTERS.
12. INDICATES COLD-FORMED LOAD BEARING WALL LOCATIONS.

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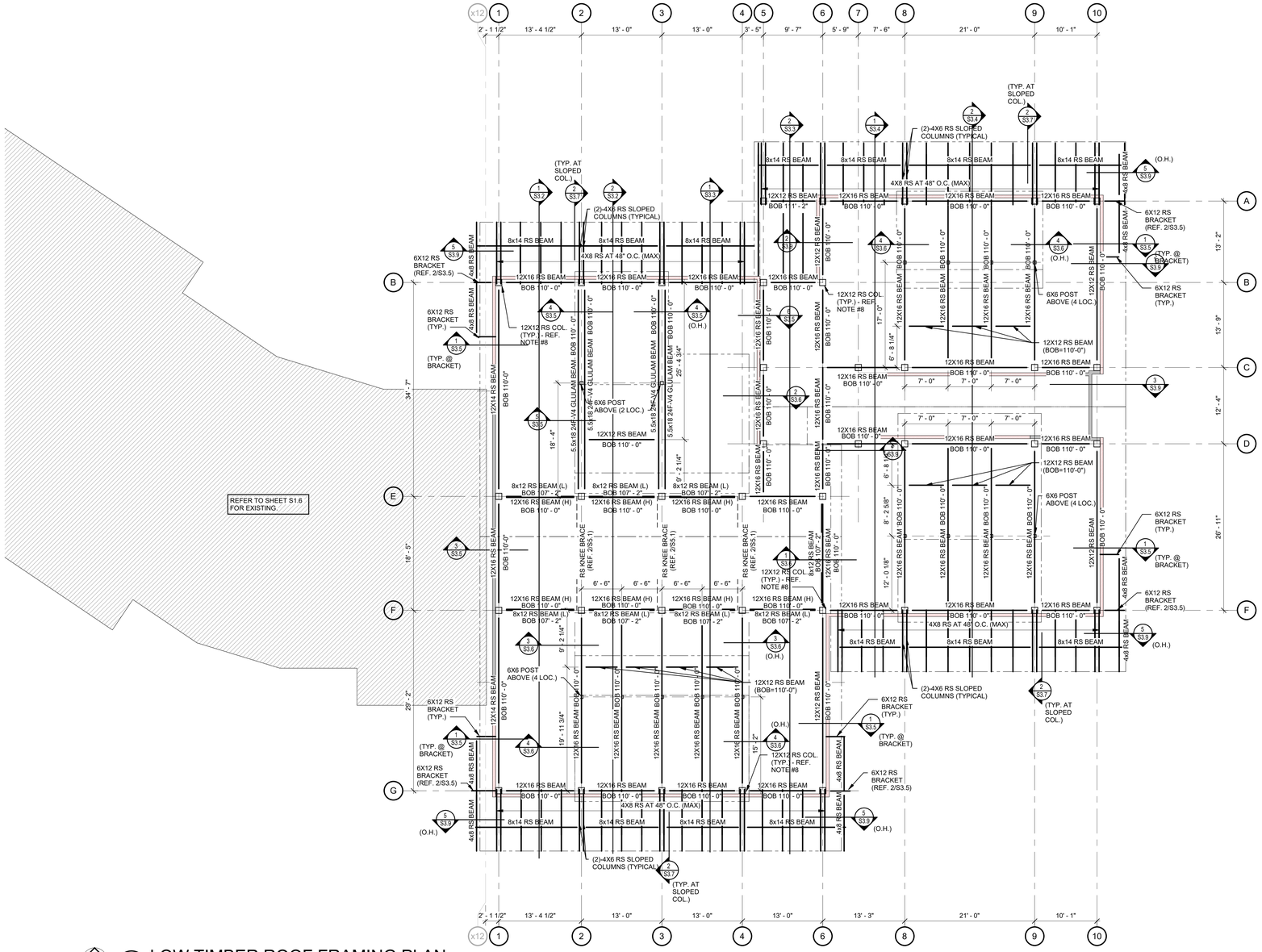
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S1.2

SLAB PLAN



1 LOW TIMBER ROOF FRAMING PLAN
1/8" = 1'-0"

PLAN NORTH

TIMBER ROOF FRAMING PLAN NOTES:

1. DATUM ELEVATION = 100'-0", CORRESPONDS WITH ACTUAL ELEVATION PER CIVIL/ARCHITECTURE.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
3. INDICATES COLD-FORMED SHEAR WALL LOCATIONS. REFER TO 2/S2.1 FOR THE TYPICAL SHEAR WALL HOLDOWN DETAIL.
4. REFER TO 4/S3.1 FOR TYPICAL ROOF OPENING DETAIL, INCLUDING OPENINGS FOR ROOF DRAINS AND ROOF HATCHES. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND EXTENTS.
5. "RS" DENOTES ROUGH SAWN BEAMS. REFER TO "WOOD CONSTRUCTION" GENERAL NOTES ON SHEET S0.1.
6. INDICATES COLD-FORMED LOAD BEARING WALL LOCATIONS.
7. COLUMNS SHALL BE 12X12 ROUGH SAWN HEAVY TIMBER COLUMNS (U.N.O.). REFER TO 3/S2.1 FOR TYPICAL BASE CONNECTION. REFER TO 8/S3.1 FOR TYPICAL BEAM TO COLUMN CONNECTIONS.
8. REFER TO 7/S3.1 FOR TYPICAL BEAM TO BEAM CONNECTIONS.

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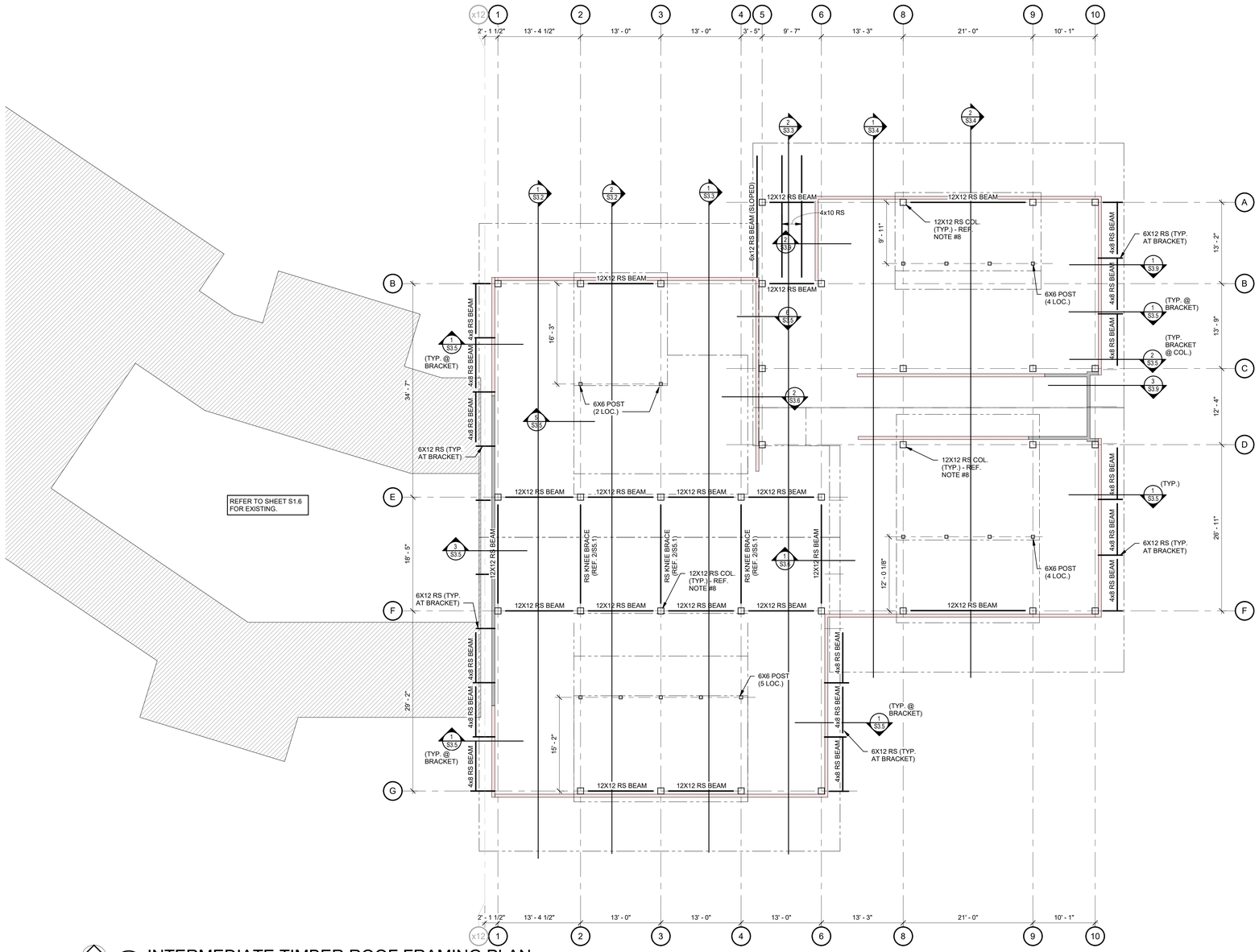
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S1.3
LOW TIMBER ROOF FRAMING PLAN



PLAN NORTH

1 INTERMEDIATE TIMBER ROOF FRAMING PLAN
1/8" = 1'-0"

TIMBER ROOF FRAMING PLAN NOTES:

1. DATUM ELEVATION = 100'-0", CORRESPONDS WITH ACTUAL ELEVATION PER CIVIL/ARCHITECTURE.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
3. INDICATES COLD-FORMED SHEAR WALL LOCATIONS. REFER TO 2/S2.1 FOR THE TYPICAL SHEAR WALL HOLDOWN DETAIL.
4. REFER TO 4/S3.1 FOR TYPICAL ROOF OPENING DETAIL, INCLUDING OPENINGS FOR ROOF DRAINS AND ROOF HATCHES. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND EXTENTS.
5. "RS" DENOTES ROUGH SAWN BEAMS. REFER TO "WOOD CONSTRUCTION" GENERAL NOTES ON SHEET S0.1.
6. INDICATES COLD-FORMED LOAD BEARING WALL LOCATIONS.
7. COLUMNS SHALL BE 12X12 ROUGH SAWN HEAVY TIMBER COLUMNS (U.N.O.). REFER TO 3/S2.1 FOR TYPICAL BASE CONNECTION. REFER TO 8/S3.1 FOR TYPICAL BEAM TO COLUMN CONNECTIONS.
8. REFER TO 7/S3.1 FOR TYPICAL BEAM TO BEAM CONNECTIONS.

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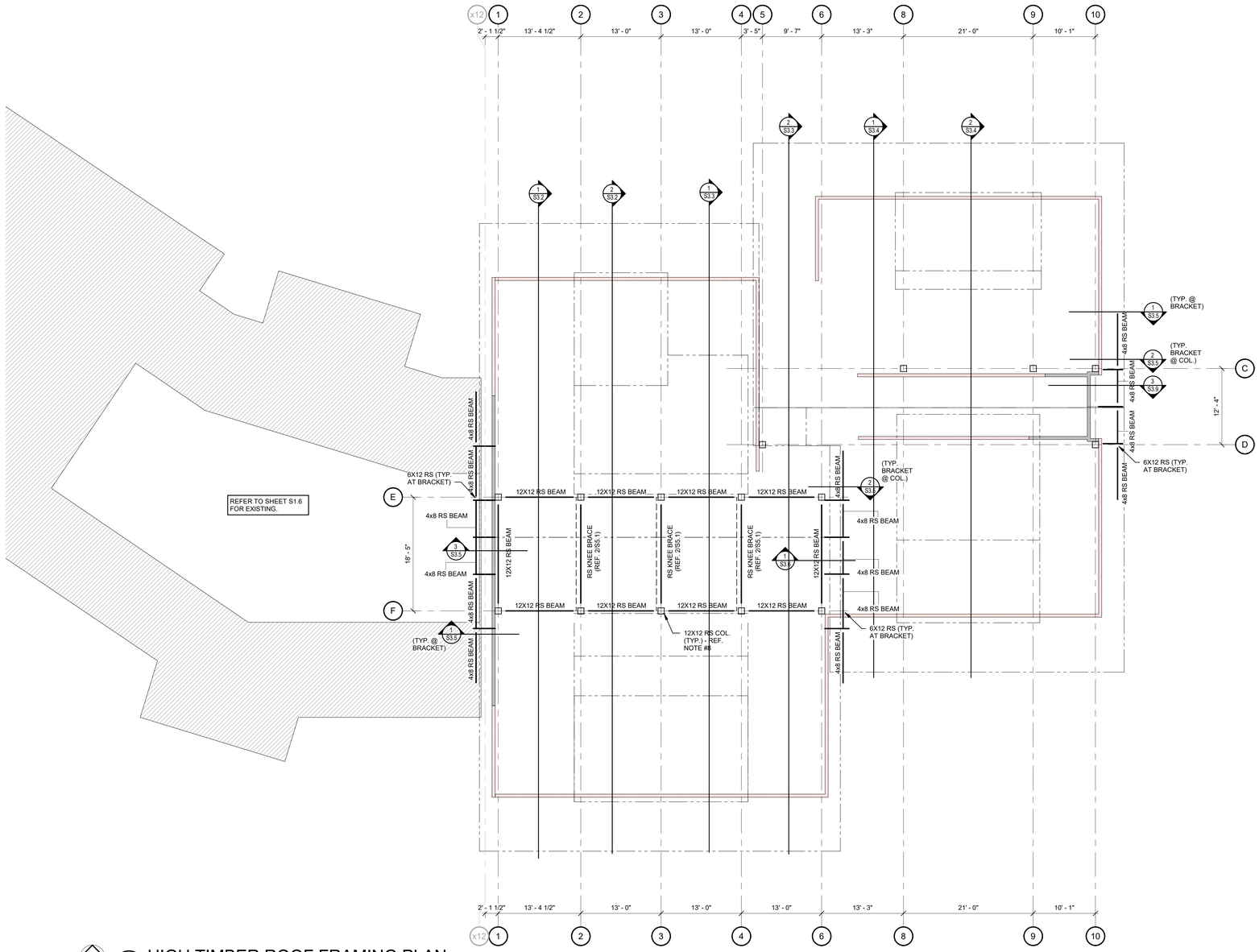
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S1.4
INTERMEDIATE TIMBER ROOF FRAMING PLAN



PLAN NORTH

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

TIMBER ROOF FRAMING PLAN NOTES:

1. DATUM ELEVATION = 100'-0", CORRESPONDS WITH ACTUAL ELEVATION PER CIVIL/ARCHITECTURE.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
3. INDICATES COLD-FORMED SHEAR WALL LOCATIONS. REFER TO 2/S2.1 FOR THE TYPICAL SHEAR WALL HOLDOWN DETAIL.
4. REFER TO 4/S3.1 FOR TYPICAL ROOF OPENING DETAIL, INCLUDING OPENINGS FOR ROOF DRAINS AND ROOF HATCHES. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND EXTENTS.
5. "RS" DENOTES ROUGH SAWN BEAMS. REFER TO "WOOD CONSTRUCTION" GENERAL NOTES ON SHEET S0.1.
6. INDICATES COLD-FORMED LOAD BEARING WALL LOCATIONS.
7. COLUMNS SHALL BE 12X12 ROUGH SAWN HEAVY TIMBER COLUMNS (U.N.O.). REFER TO 3/S2.1 FOR TYPICAL BASE CONNECTION. REFER TO 8/S3.1 FOR TYPICAL BEAM TO COLUMN CONNECTIONS.
8. REFER TO 7/S3.1 FOR TYPICAL BEAM TO BEAM CONNECTIONS.

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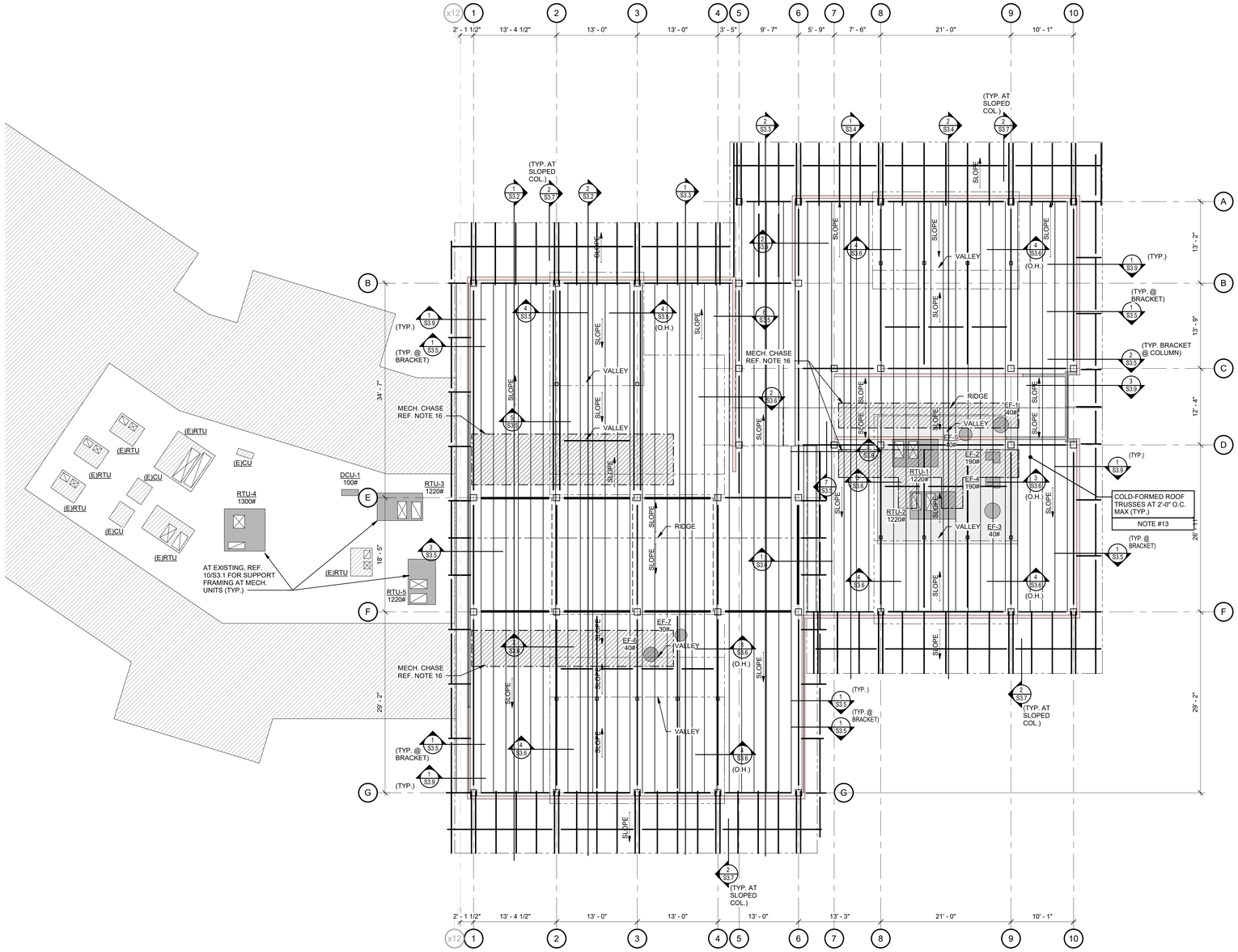
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S1.5
HIGH TIMBER ROOF FRAMING PLAN



PLAN NORTH

1 COLD-FORMED STEEL ROOF TRUSS FRAMING PLAN

1/8" = 1'-0"

COLD-FORM STEEL ROOF FRAMING PLAN NOTES:

1. DATUM ELEVATION = 100'-0", CORRESPONDS WITH ACTUAL ELEVATION PER CIVIL/ARCHITECTURE.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
3. REFER TO 4/S3.1 FOR TYPICAL OPENINGS IN WOOD ROOF DECK, INCLUDING OPENINGS FOR ROOF DRAINS AND ROOF HATCHES. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND EXTENTS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR BOTTOM OF SHEATHING ELEVATIONS.
5. MANUFACTURER'S CURBS FOR MECHANICAL EQUIPMENT SHALL BE SUPPORTED BY FRAMING LOCATED BELOW WOOD ROOF DECK. REFER TO 3/S3.1.
6. GENERAL CONTRACTOR SHALL CONFIRM ALL MECHANICAL EQUIPMENT WEIGHTS SHOWN ON PLAN. REFER TO ARCHITECTURAL/MEP DRAWINGS FOR LOCATIONS OF REQUIRED ROOF OPENINGS. REFER TO EQUIPMENT MANUFACTURER'S SPECIFICATIONS FOR REQUIRED OPENING DIMENSIONS.
7. "TG" DENOTES TRUSS GIRDER TO BE PROVIDED BY MANUFACTURER.
8. COLD-FORMED ROOF TRUSSES ARE SHOWN ON THE PLAN FOR GENERAL LAYOUT OF FRAMING. MAXIMUM TRUSS SPACING SHALL NOT EXCEED 24" ON CENTER. TRUSS MANUFACTURER IS RESPONSIBLE FOR TRUSS PROFILE, PLACEMENT, BRACING, AND CONNECTIONS. REFER TO PRE-ENGINEERED COLD-FORMED TRUSS NOTES FOR ROOF TRUSS LOADING INFORMATION.
9. TRUSS MANUFACTURER TO COORDINATE MECHANICAL, ELECTRICAL AND PLUMBING PENETRATIONS THRU TRUSSES AND TRUSS GIRDERS WITH MEP DRAWINGS.
10. REFER TO 1/S3.1 FOR THE WOOD SHEATHING ATTACHMENT DIAGRAM.
11. ▭ INDICATES COLD-FORMED SHEAR WALL LOCATIONS.
12. THE TRUSS MANUFACTURER SHALL PROVIDE OVERBUILD TRUSSES AND/OR FRAMING AS REQUIRED TO ACHIEVE THE ROOF PROFILE. COORDINATE ROOF SLOPES AND TAPERED INSULATION WITH ARCHITECTURAL DRAWINGS.
13. CFMF ENGINEER AND CFMF TRUSS DESIGNER SHALL DESIGN TRUSSES AND COLD-FORM STEEL ROOF FRAMING FOR UPLIFT FORCES SHOWN ON 1/S0.3 AND OTHER DESIGN CRITERIA SHOWN ON GENERAL NOTES SHEETS FOR "PRE-ENGINEERED TRUSSES".
14. ▭ INDICATES ROOF MECHANICAL UNIT WELL. REFER TO GENERAL NOTES FOR ADDITIONAL LOADING INFORMATION.
15. ▭ INDICATES COLD-FORMED LOAD BEARING WALL LOCATIONS.
16. ▨ INDICATES MECHANICAL CHASE. CFMF ENGINEER AND CFS TRUSS DESIGNER SHALL DESIGN STUD BRACING AND CFS ROOF TRUSSES FOR MECHANICAL CHASES NOTED ON PLAN TO ALLOW DUCT WORK TO BE ROUTED THROUGH TRUSS PROFILE. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS.

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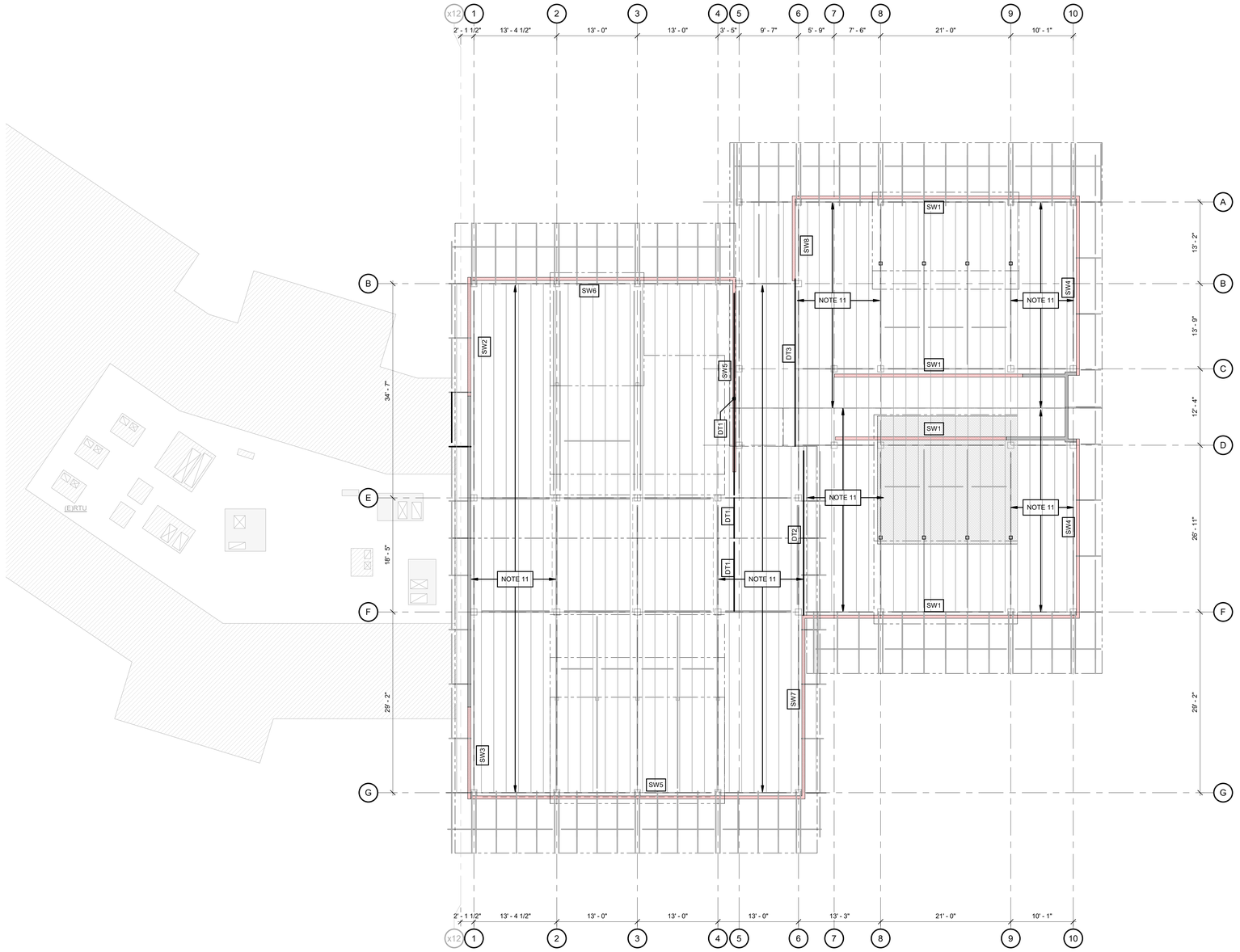
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S1.6

COLD-FORMED STEEL ROOF TRUSS FRAMING PLAN



1 LATERAL LOAD PLAN
1/8" = 1'-0"

LATERAL LOAD PLAN NOTES:

1. ▭ INDICATES SHEAR WALL LOCATIONS. REFER TO FLOOR LEVEL FOR ADDITIONAL INFORMATION.
2. WIND LOADS PROVIDED IN THE SCHEDULE ARE MAIN WIND-FORCE RESISTING SYSTEM WIND LOADS AND ARE ULTIMATE LEVEL LOADS.
3. THE LOADS PROVIDED IN THE SCHEDULE DO NOT NECESSARILY ACT CONCURRENTLY. THE CFMF ENGINEER AND TRUSS DESIGNER SHALL USE APPLICABLE BUILDING CODE LOAD COMBINATIONS TO DETERMINE THE MAXIMUM DESIGN LOAD(S) FOR EACH WALL, DRAG TRUSS, AND BLOCKING TRUSS.
4. THE CFMF ENGINEER SHALL DESIGN THE SHEAR WALLS TO RESIST THE SCHEDULED MAXIMUM IN-PLANE LATERAL WIND LOADS.
5. THE TRUSS DESIGNER SHALL DESIGN THE DRAG TRUSSES AND BLOCKING TRUSSES TO RESIST THE SCHEDULED IN-PLANE LATERAL WIND LOADS.
6. THE CFMF ENGINEER SHALL BE RESPONSIBLE FOR THE CONNECTION DESIGN AT THE BASE OF THE WALLS NECESSARY TO TRANSFER SHEAR FROM THE SHEAR WALLS INTO THE FOUNDATION SYSTEM.
7. THE TRUSS DESIGNER SHALL BE RESPONSIBLE FOR THE CONNECTION DESIGN AT THE BASE OF THE DRAG/BLOCKING TRUSS TO TRANSFER SHEAR FROM THE DRAG/BLOCKING TRUSSES INTO THE SHEAR WALLS.
8. CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW.
9. ▭ INDICATES ROOF MECHANICAL UNIT WELL. REFER TO SHEET S1.6 FOR ADDITIONAL INFORMATION.
10. REFER TO THE SHEETS S1.3 - S1.6 FOR ROOF FRAMING TYPICALLY.
11. PROVIDE CFMF BLOCKING BY CFMF ENGINEER AT ALL EDGES OF ROOF SHEATHING IN REGIONS NOTED ON PLAN.

MAXIMUM ULTIMATE IN-PLANE SHEAR WALL LOAD	
WALL/DRAG STRUT	WIND (1.0W)
SW1	5.5K
SW2	7.5K
SW3	9.6K
SW4	9.6K
SW5	13.6K
SW6	14.0K
SW7	16.0K
SW8	10.1K

MAXIMUM ULTIMATE IN-PLANE DRAG/BLOCKING TRUSS LOAD	
WALL/DRAG STRUT	WIND (1.0W)
DT1	13.6K
DT2	16.0K
DT3	10.1K

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drawn: BG	chkr: JG	HG+A: 225066	TEXAS REGISTERED ENGINEERING FIRM # F-6053

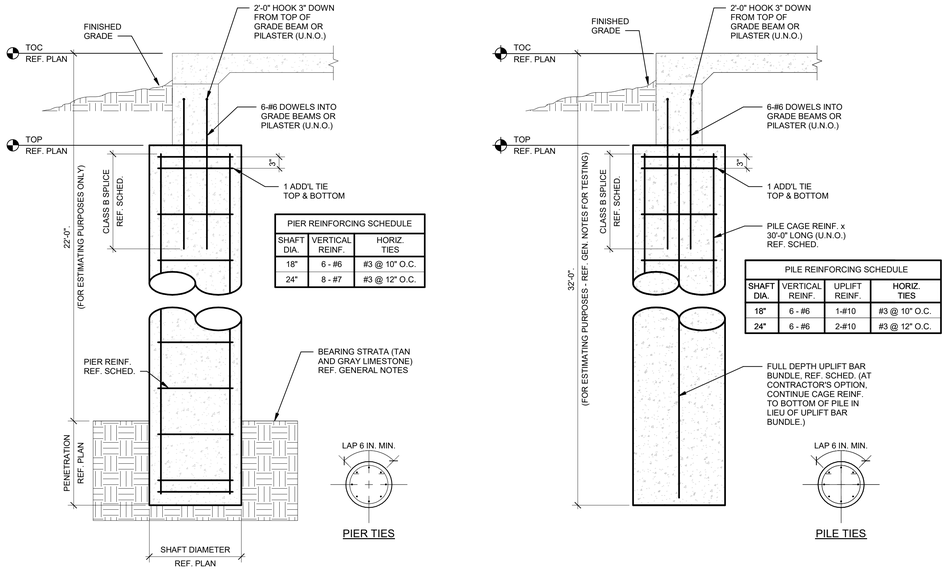
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DATE	JANUARY 20, 2026
DRAWN BY	BCG
CHECKED BY	JG
BRW PROJECT NUMBER	225057.00

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NO.	REVISION	DATE

S1.7
LATERAL LOAD PLAN



PIER REINFORCING SCHEDULE		
SHAFT DIA.	VERTICAL REINF.	HORIZ. TIES
18"	6 - #6	#3 @ 10" O.C.
24"	8 - #7	#3 @ 12" O.C.

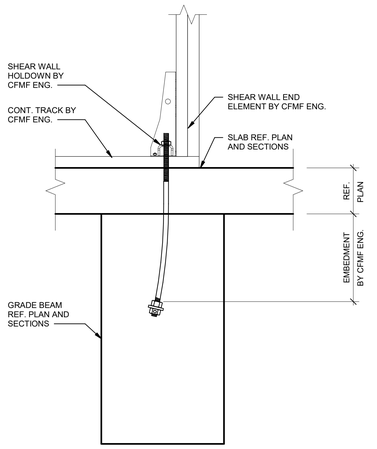
TYPICAL DRILLED PIER SCHEDULE AND DETAILS

PILE REINFORCING SCHEDULE			
SHAFT DIA.	VERTICAL REINF.	UPLIFT REINF.	HORIZ. TIES
18"	6 - #6	1-#10	#3 @ 10" O.C.
24"	6 - #6	2-#10	#3 @ 12" O.C.

TYPICAL AUGER CAST PILE SCHEDULE AND DETAILS

1 TYPICAL DRILLED PIER & AUGER CAST PILE DETAILS

3/4" = 1'-0"

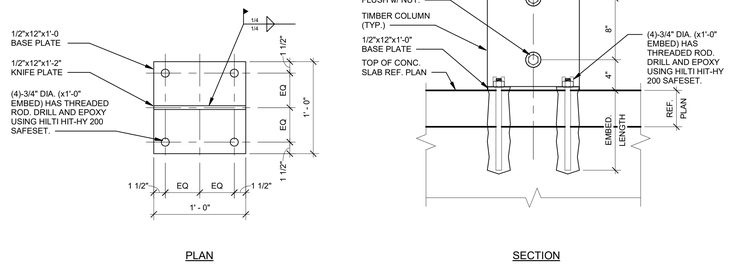


NOTE:

1. EMBEDMENT DEPTH IS INTO CONCRETE GRADE BEAM. DISCOUNT SLAB DEPTH.
2. CONTRACTOR SHALL COORDINATE SHEAR WALL HOLDOWN LOCATIONS AND EMBEDMENT DEPTH PRIOR TO GRADE BEAM POUR.

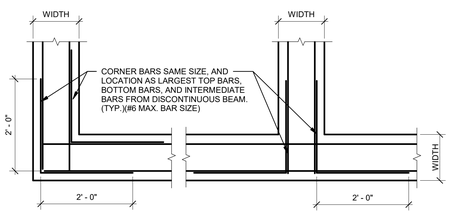
2 SHEAR WALL HOLDOWN

1 1/2" = 1'-0"



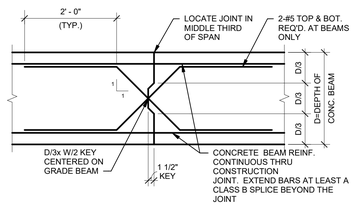
3 BASE PLATE & ANCHOR BOLT DETAILS

1 1/2" = 1'-0"



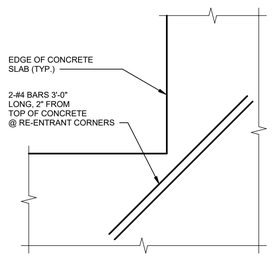
4 CORNER BARS AT BEAMS DETAIL

3/4" = 1'-0"



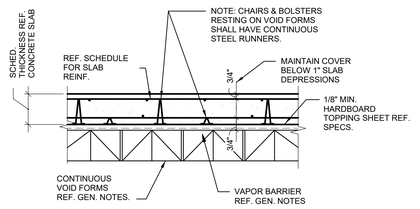
5 CONCRETE BEAM CONSTRUCTION JOINT DETAIL

3/4" = 1'-0"



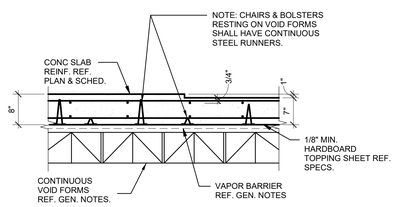
6 TYPICAL RE-ENTRY CORNER REINFORCING DETAIL

3/4" = 1'-0"



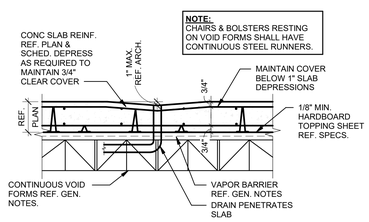
7 TYPICAL SUSPENDED CONCRETE SLAB ON VOID FORM DETAIL

3/4" = 1'-0"



8 TYPICAL SUSPENDED CONCRETE SLAB ON VOID FORMS WITH SLAB RECESS

3/4" = 1'-0"



9 TYPICAL SUSPENDED CONCRETE SLAB ON VOID FORMS SLOPING TO DRAIN

3/4" = 1'-0"

BAR SPLICE SCHEDULE

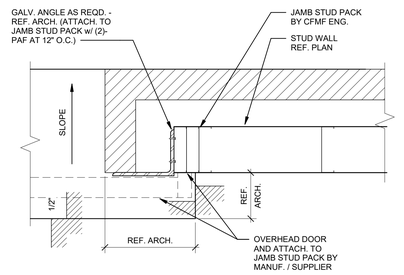
f'c	SPLICE CLASS	BAR SIZE								
		#3	#4	#5	#6	#7	#8	#9	#10	#11
3000	CLASS A 1.0 Ld	17	22	28	33	48	55	62	70	78
	CLASS B 1.3 Ld	23	29	37	43	63	72	81	91	102
4000	CLASS A 1.0 Ld	15	19	24	29	42	48	54	61	67
	CLASS B 1.3 Ld	20	25	32	38	55	63	71	80	88

NOTES:

1. USE THE ABOVE DEVELOPEMENT LENGTH AND LAP SPLICE TABLE FOR BEAMS, JOISTS COLUMNS, WALLS, SLABS, ETC. WHEN THE CLEAR SPACING OF BARS IS GREATER THAN 2 BAR DIAMETERS AND THE CLEAR COVER IS NOT LESS THAN 1 BAR DIAMETER.
2. WHEN THE CLEAR SPACING OF BARS IS LESS THAN OR EQUAL TO 2 BAR DIAMETERS, OR WHEN THE CLEAR COVER IS LESS THAN 1 BAR DIAMETER, MULTIPLY DEVELOPMENT AND SPLICE LENGTHS LISTED IN THE TABLE BY 1.50.
3. TENSION DEVELOPMENT LENGTH = Ld. LENGTHS LISTED IN THE TABLE ARE IN INCHES.
4. PROVIDE LAP SPLICE LENGTH BASED ON THE LARGER BAR BEING OVERLAPPED WHEN BARS OF DIFFERENT SIZES ARE SPLICED.
5. FOR TOP BARS, MULTIPLY THE DEVELOPMENT AND SPLICE LENGTHS BY 1.3. TOP BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.

10 BAR SPLICE SCHEDULE

1 : 1



11 TYPICAL DETAIL AT BASE OF OVERHEAD DOOR

1 1/2" = 1'-0"

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S2.1

TYPICAL FOUNDATION DETAILS

GRADE BEAM SCHEDULE

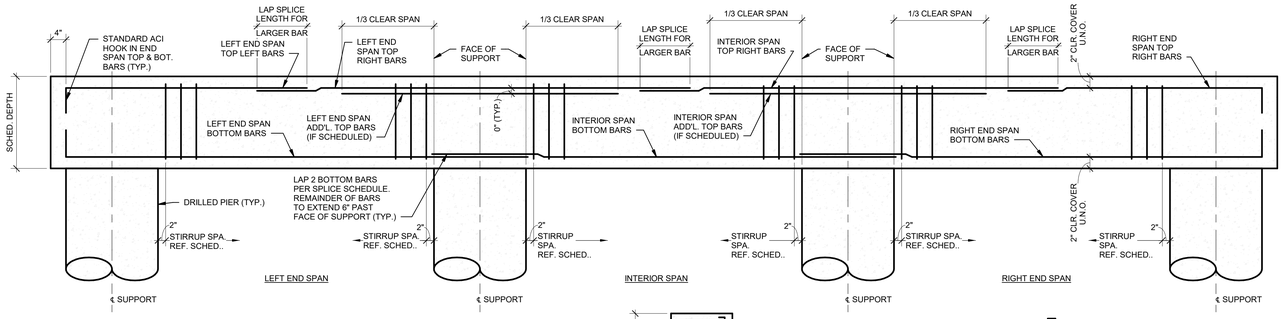
TYPE	WIDTH (IN)	DEPTH (IN)	TOP BARS		BOTTOM BARS	SIDE BARS (1/2 EA. SIDE)	#3 TYPE 1 STIRRUPS (U.N.O.) FROM EACH SUPPORT	NOTES
			LEFT	RIGHT				
GB1	16	30	(4) #7	(4) #7	(4) #7	(2) #4	@ 12" O.C.	
GB2	16	30	-	(4) #7	(4) #7	(2) #4	@ 12" O.C.	
GB3	22	30	(5) #7	(5) #7	(5) #7	(2) #4	@ 12" O.C.	
GB4	22	30	-	(5) #7	(5) #7	(2) #4	@ 12" O.C.	
GB5	28	30	(5) #7	(5) #7	(5) #7	(2) #4	@ 10" O.C.	
GB6	21	30	-	(5) #7	(5) #7	(2) #4	@ 12" O.C.	

NOTES:

1. REFER TO 2/S2.2 FOR GRADE BEAM BAR PLACEMENT DIAGRAM.
2. REFER TO 10/S2.1 FOR TYPICAL BAR SPLICE SCHEDULE.
3. TOP LEFT REINFORCEMENT PROVIDED BY TOP RIGHT REINFORCEMENT OF ADJACENT SPAN IF PRESENT, U.N.O.
4. EXTEND TOP & BOTTOM BARS TO END OF ADJACENT CANTILEVER WHERE CANTILEVER EXISTS. PROVIDE SCHEDULED STIRRUP SIZE & TYPE @ 6" OC IN CANTILEVERS, U.N.O.

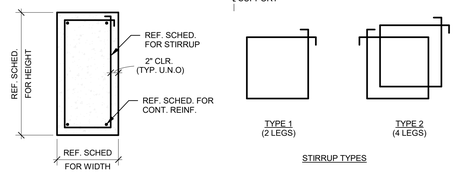
1 GRADE BEAM SCHEDULE

3/4" = 1'-0"



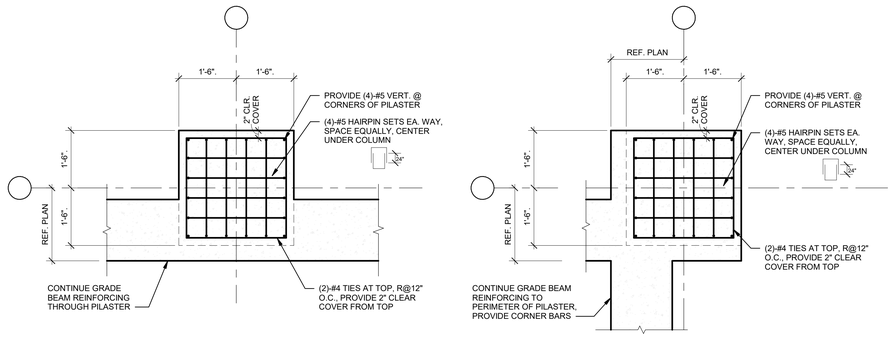
NOTES:

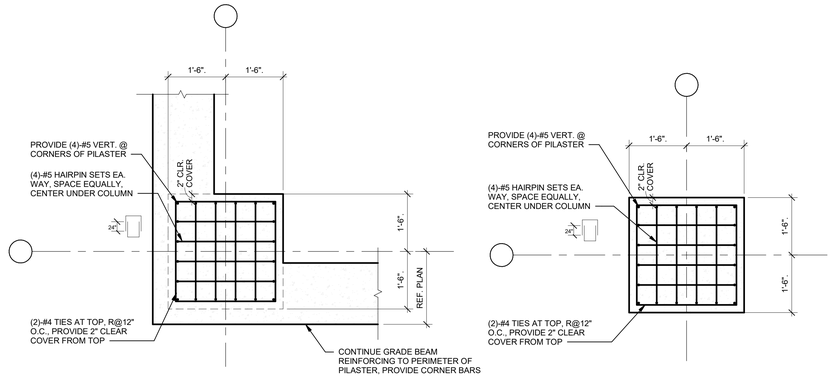
1. AT ALL PILASTERS AND IN CANTILEVERED BEAMS, EXTEND ALL TOP & BOTTOM REINFORCEMENT TO WITHIN 4" OF CONCRETE FACE AND PROVIDE 90° HOOKS AT TOP BARS.
2. FOR BARS CALLED OUT AS TOP CONTINUOUS IN SECTIONS, LOCATE SPLICES BETWEEN PIERS AS SHOWN ABOVE.
3. FOR BARS CALLED OUT AS BOTTOM CONTINUOUS IN SECTIONS, LOCATE SPLICES AT PIERS AS SHOWN ABOVE.
4. MAINTAIN 1" HORIZONTAL CLEARANCE (MINIMUM) BETWEEN TOP BARS AND ADDITIONAL TOP BARS OVER SUPPORTS.
5. FOR SINGLE SPAN BEAMS, TOP REINFORCEMENT SHOULD BE CONTINUOUS ACROSS ENTIRE LENGTH.



2 GRADE BEAM BAR PLACEMENT DIAGRAM

3/4" = 1'-0"



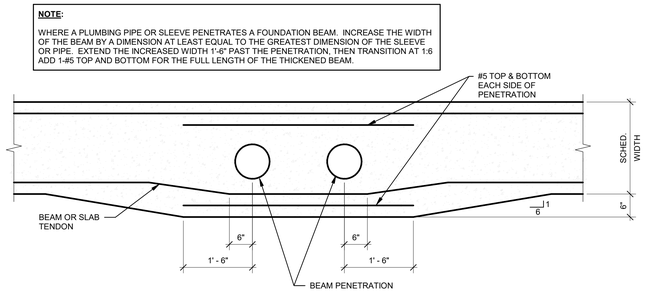


3 TYPICAL PILASTER DETAILS AND SCHEDULE

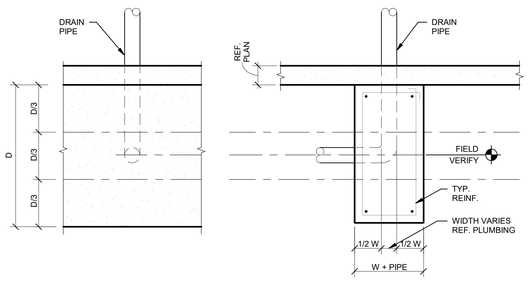
3/4" = 1'-0"

NOTE:

WHERE A PLUMBING PIPE OR SLEEVE PENETRATES A FOUNDATION BEAM. INCREASE THE WIDTH OF THE BEAM BY A DIMENSION AT LEAST EQUAL TO THE GREATEST DIMENSION OF THE SLEEVE OR PIPE. EXTEND THE INCREASED WIDTH 1'-6" PAST THE PENETRATION, THEN TRANSITION AT 1:6 ADD 1-#5 TOP AND BOTTOM FOR THE FULL LENGTH OF THE THICKENED BEAM.



TOP VIEW OF GRADE BEAM

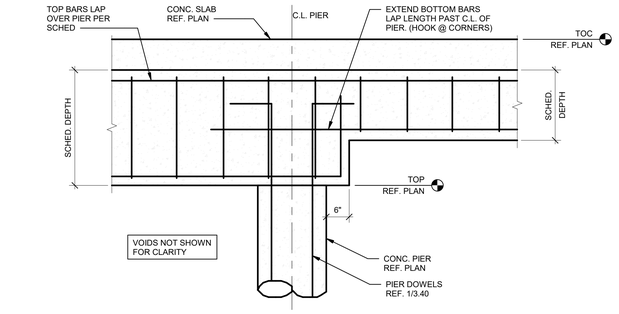


NOTE:

INCREASE BM. DEPTH & WIDTH TO ACCOMMODATE PVC PIPING AS SHOWN. DO NOT PENETRATE BEAMS AT THE TOP OR BOTTOM THIRDS OF THE BEAM DEPTH. REFER TO PLUMBING FOR ROOF DRAINS.

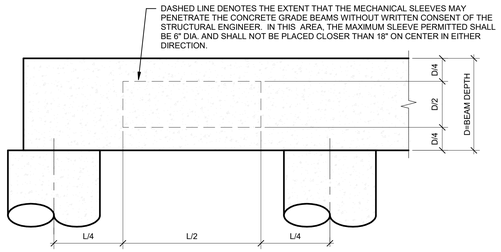
4 VERTICAL PENETRATION THROUGH GRADE BEAM

3/4" = 1'-0"



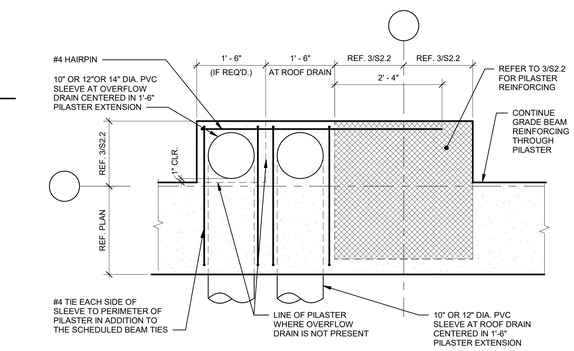
5 TYPICAL GRADE BEAM BOTTOM STEP DETAIL

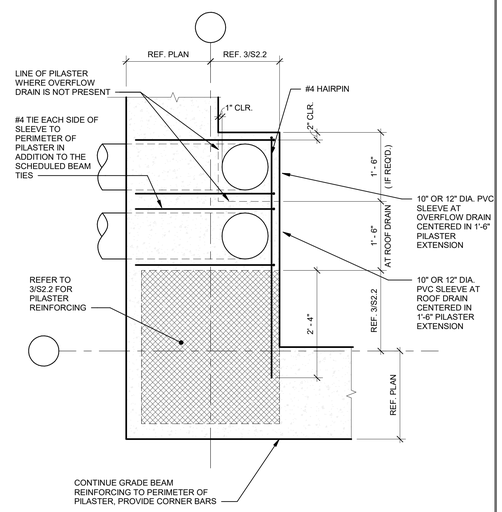
3/4" = 1'-0"



6 TYPICAL HORIZONTAL PENETRATIONS THROUGH GRADE BEAM

3/4" = 1'-0"





7 ROOF DRAIN PENETRATION DETAILS

3/4" = 1'-0"

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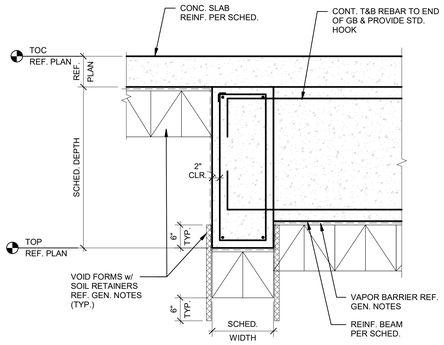
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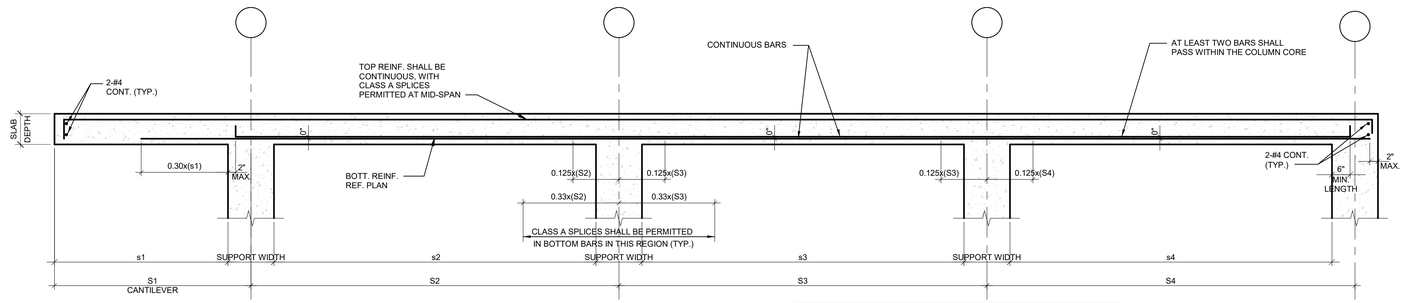
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S2.2

TYPICAL FOUNDATION DETAILS



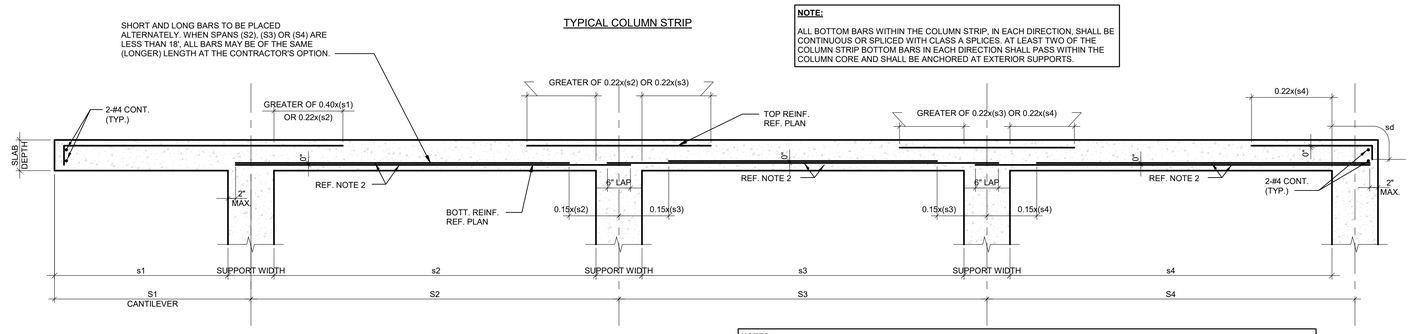
1 TYPICAL SECTION
3/4" = 1'-0"



TYPICAL COLUMN STRIP

NOTE:

ALL BOTTOM BARS WITHIN THE COLUMN STRIP, IN EACH DIRECTION, SHALL BE CONTINUOUS OR SPLICED WITH CLASS A SPLICES. AT LEAST TWO OF THE COLUMN STRIP BOTTOM BARS IN EACH DIRECTION SHALL PASS WITHIN THE COLUMN CORE AND SHALL BE ANCHORED AT EXTERIOR SUPPORTS.

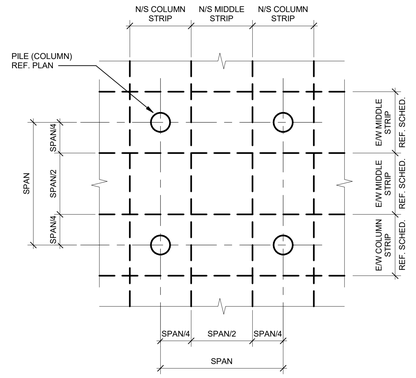


TYPICAL MIDDLE STRIP

NOTES:

1. U.N.O., TOP & BOTTOM REINFORCING IN LONG DIRECTION OF SLAB SHOULD HAVE 3/4" CLEAR COVER. THE REINFORCING IN SHORT DIRECTION SHOULD HAVE A CLEAR COVER OF 3/4" PLUS BAR DIAMETER OF REINFORCING IN LONG DIRECTION.
2. MIN. 50% OF SCHED. BARS TO BE LONGER LENGTH. REMAINING BARS TO BE SHORTER LENGTH. AT CONTRACTOR'S OPTION ALL BARS MAY BE THE LONGER LENGTH.
3. FOR DEVELOPMENT LENGTH "sd" FOR TOP OR BOTTOM BARS REF. BAR SPLICE SCHED.

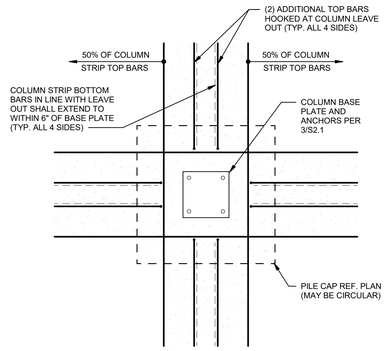
2 TWO WAY SLAB BAR PLACING DIAGRAM
3/4" = 1'-0"



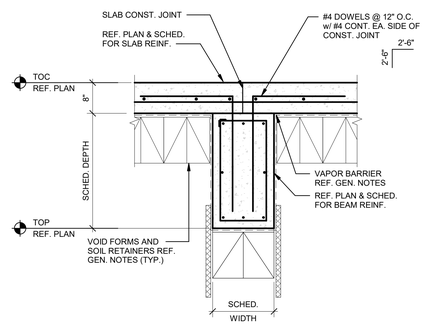
NOTES:

1. REF. 2/S2.3 FOR COLUMN STRIP DIMENSIONS & COLUMN STRIP REINFORCEMENT. REINFORCEMENT WITHIN THE COLUMN STRIP SHALL BE EQUALLY SPACED.
2. REF. 2/S2.3 FOR MIDDLE STRIP REINFORCEMENT AND SPACING.
3. REF. 4/S2.3 AND OTHER TYPICAL DETAILS ON THIS SHEET FOR PLACEMENT INFORMATIONS.

3 TWO-WAY SLAB REINFORCEMENT
3/4" = 1'-0"



4 REINFORCING AT SLAB LEAVEOUT FOR COLUMNS IN TWO WAY SLABS
3/4" = 1'-0"



5 TYPICAL SLAB CONSTRUCTION JOINT
3/4" = 1'-0"

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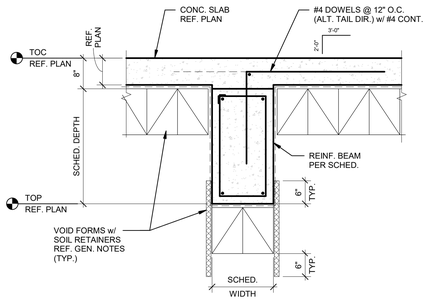
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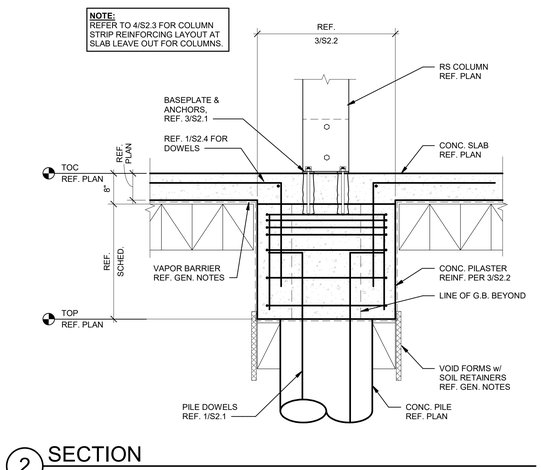
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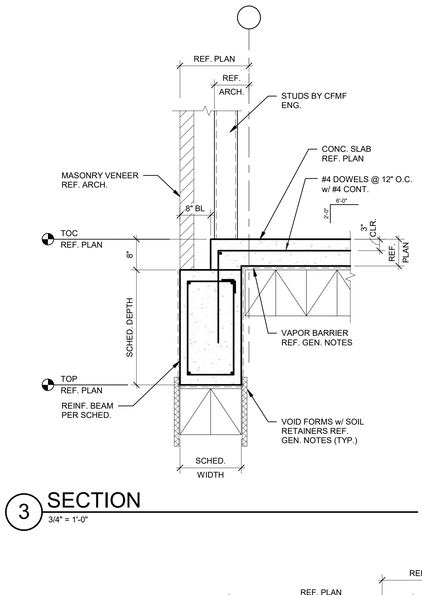
S2.3
TYPICAL FOUNDATION DETAILS



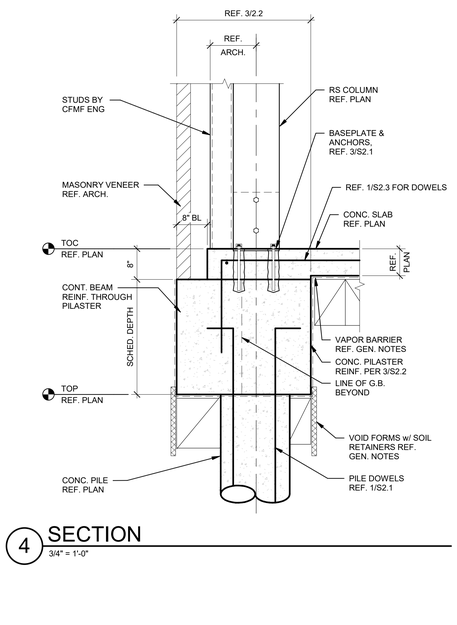
1 SECTION
3/4" = 1'-0"



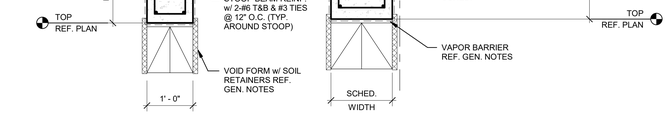
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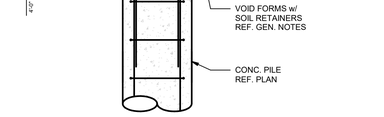
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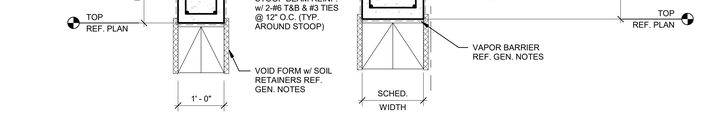
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3/4" = 1'-0"



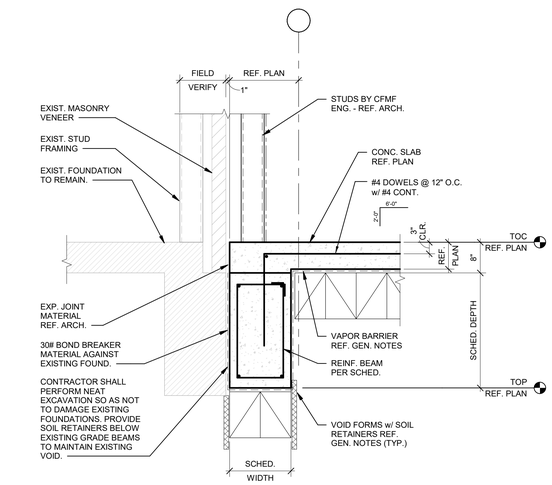
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3/4" = 1'-0"



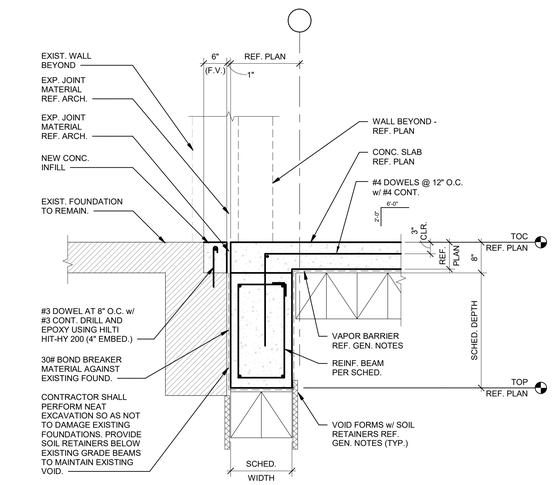
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3/4" = 1'-0"



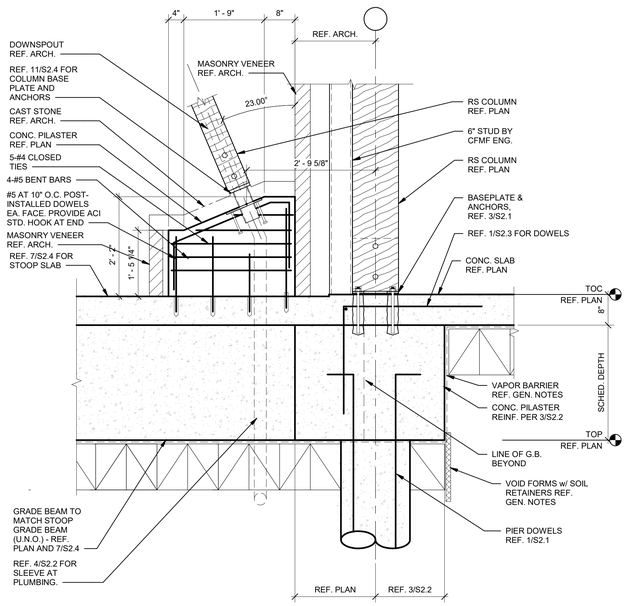
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3/4" = 1'-0"



8 SECTION
3/4" = 1'-0"

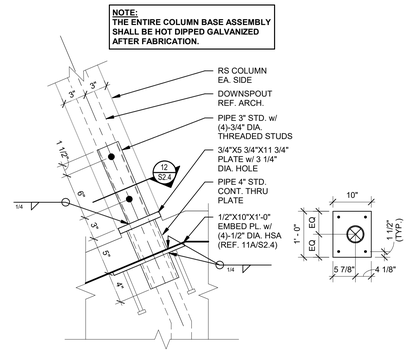


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3/4" = 1'-0"

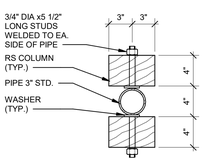


10 SECTION
3/4" = 1'-0"

NOTE:
THE ENTIRE COLUMN BASE ASSEMBLY SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.



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



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

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DRAWN: BG	REVIEW: JG	JOB #: 225066	TEXAS REGISTERED ENGINEERING FIRM # F-6053

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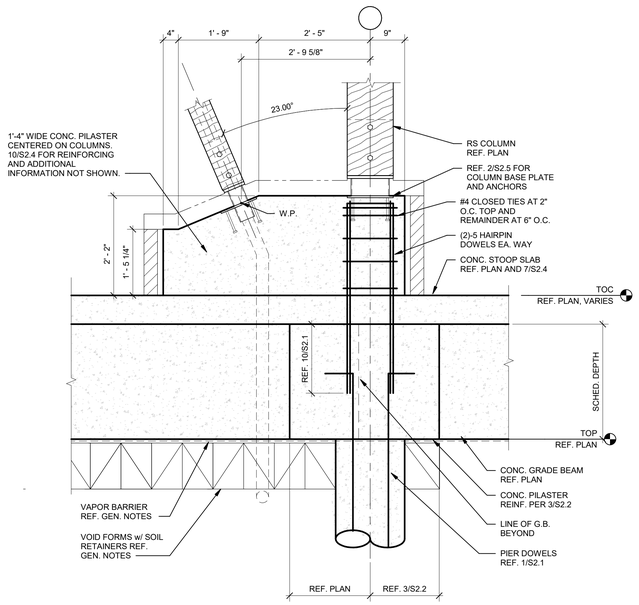
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DRAWN BY	BCG
CHECKED BY	JG
BRW PROJECT NUMBER	225057.00

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WESTLAKE, TX 76262

NO.	REVISION	DATE

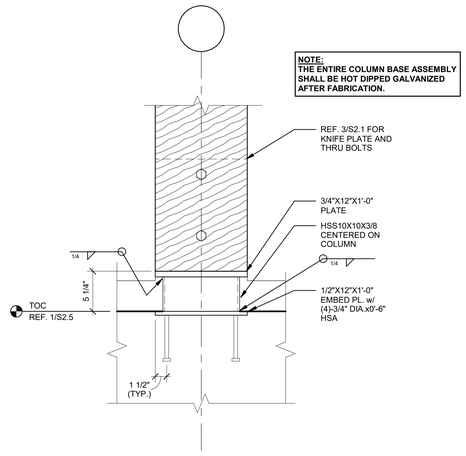
S2.4

FOUNDATION DETAILS



1 SECTION

3/4" = 1'-0"



2 SECTION

1 1/2" = 1'-0"

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DESIGN	BG	REVISIONS	225066
DRAWN	JG		

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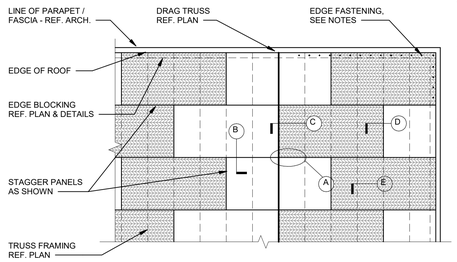
DATE	JANUARY 20, 2026
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CHECKED BY	JG
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S2.5

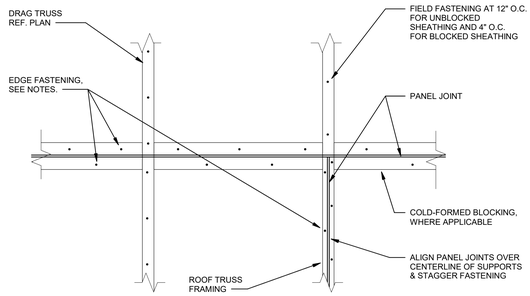
FOUNDATION DETAILS



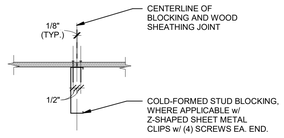
PARTIAL ROOF PLAN

ROOF SHEATHING NOTES:

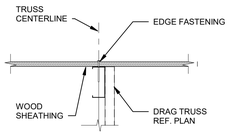
1. WOOD SHEATHING: REFER TO GENERAL NOTES FOR THICKNESS AND FASTENING (UNLESS NOTED OTHERWISE).
2. PROVIDE WOOD SHEATHING SHEETS NOT LESS THAN 2'-0" IN LEAST DIMENSION NOR LESS THAN 8'-0" SQ. FEET IN AREA. USE FULL SHEETS WHEREVER POSSIBLE.
3. PLACE WOOD SHEATHING SHEET WITH FACE PLIES PERPENDICULAR TO JOISTS/TRUSS.
4. COORDINATE JOIST/TRUSS LAYOUT WITH 4'-0" MODULE AS RELATED TO SHEATHING LAYOUT.
5. MACHINE APPLIED FASTENING: THE CONTRACTOR WILL DEMONSTRATE SATISFACTORY INSTALLATION ON THE JOB AND OBTAIN THE ACCEPTANCE OF ARCHITECT AND/OR STRUCTURAL ENGINEER BEFORE THE USE OF MACHINE APPLIED FASTENERS CAN BE APPROVED. APPROVAL IS SUBJECTED TO CONTINUED SATISFACTORY PERFORMANCE.
6. REFER TO 4/S3.1 FOR ADDITIONAL FRAMING REQUIRED AT OPENING IN ROOF DECK.
7. REFER TO 5/S3.1 FOR ADDITIONAL FRAMING REQUIRED ROOF MOUNTED MECHANICAL EQUIPMENT.



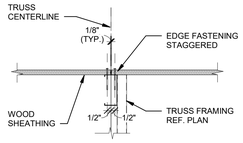
PLAN DETAIL A



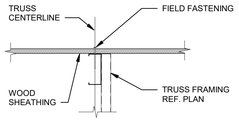
SECTION B AT TYPICAL BLOCKING



SECTION C AT DRAG TRUSS



SECTION D AT TYPICAL PANEL EDGE



SECTION E AT TYPICAL FIELD NAILING

1 WOOD ROOF SHEATHING LAYOUT

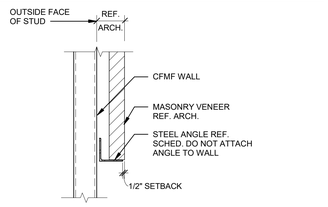
1" = 1'-0"

LOOSE LINTEL SCHEDULE

MASONRY OPENING (MAX.)	7" BRICK LEDGE ANGLE SIZE	MINIMUM END BEARING
<_10'-0"	L8X6X7/16 (LLH)	8"
10'-1" TO 13'-4"	L8X8X1/2	12"

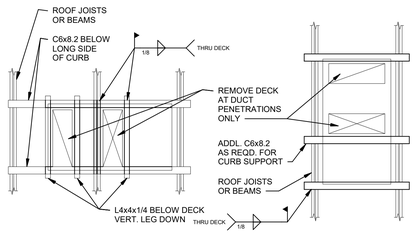
NOTES:

1. CONTROL JOINTS SHALL NOT BE PLACED IN LINTEL SPAN OR WITHIN 1'- 0" OF OPENING. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTING WALL.
2. GALVANIZE ALL EXTERIOR LOOSE LINTELS.

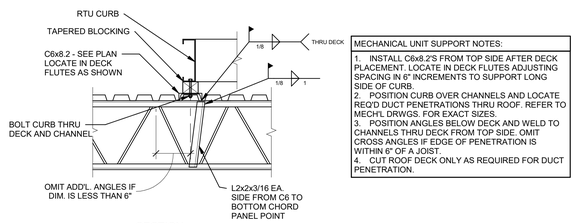


2 LOOSE LINTEL SCHEDULE

1 : 1



RTU-PLAN VIEW



SECTION

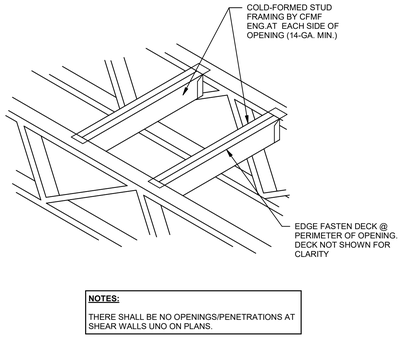
RTU-PLAN VIEW

MECHANICAL UNIT SUPPORT NOTES:

1. INSTALL C6x8.2'S FROM TOP SIDE AFTER DECK PLACEMENT. LOCATE IN DECK FLUTES ADJUSTING SPACING IN 6" INCREMENTS TO SUPPORT LONG SIDE OF CURB.
2. POSITION CURB OVER CHANNELS AND LOCATE REQ'D DUCT PENETRATIONS THRU ROOF. REFER TO MECH'L DRWGS. FOR EXACT SIZES.
3. POSITION ANGLES BELOW DECK AND WELD TO CHANNELS THRU DECK FROM TOP SIDE. OMIT CROSS ANGLES IF EDGE OF PENETRATION IS WITHIN 6" OF A JOIST.
4. CUT ROOF DECK ONLY AS REQUIRED FOR DUCT PENETRATION.

3 TYPICAL RTU SUPPORT AT EXISTING FRAMING

3/4" = 1'-0"

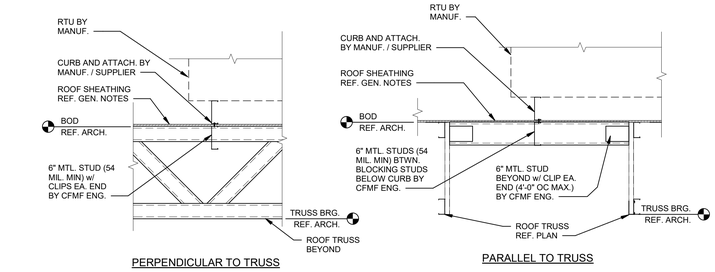


NOTES:

THERE SHALL BE NO OPENINGS/PENETRATIONS AT SHEAR WALLS UNO ON PLANS.

4 TYPICAL SMALL OPENING IN ROOF DECK

3/4" = 1'-0"

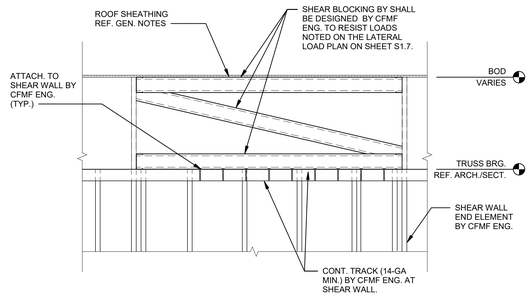


PERPENDICULAR TO TRUSS

PARALLEL TO TRUSS

5 TYPICAL RTU SUPPORT DETAIL

3/4" = 1'-0"



PERPENDICULAR TO BRACE WALL

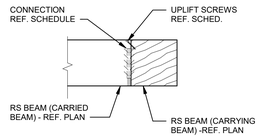
6 TYPICAL BLOCKING AT INTERIOR SHEAR WALL

3/4" = 1'-0"

BEAM TO BEAM CONNECTION SCHEDULE		
CARRIED BEAM SIZE	CONNECTION	UPLIFT SCREWS
12X12 RS	(1) - CBH2.37x7.63C BY SIMPSON STRONG-TIE	(6) - SDWC15600 SCREWS BY SIMPSON STRONG-TIE
12X16 RS	(2) - CBH2.37x7.63C BY SIMPSON STRONG-TIE	(8) - SDWC15600 SCREWS BY SIMPSON STRONG-TIE

NOTES:

1. SCHEDULED CONNECTIONS AND UPLIFT SCREWS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
2. CONNECTIONS SHALL BE CONCEALED IN THE CARRIED BEAM.
3. WHERE ROUTED CHANNEL IS EXPOSED TO VIEW AFTER ERECTION, FILL GAP WITH MATERIAL MATCHING CARRIED BEAM.



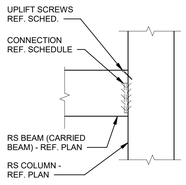
7 TYPICAL TIMBER BEAM TO TIMBER BEAM CONNECTION

3/4" = 1'-0"

BEAM TO COLUMN CONNECTION SCHEDULE		
CARRIED BEAM SIZE	CONNECTION	UPLIFT SCREWS
12X12 RS	(1) - CBH2.37x7.63C BY SIMPSON STRONG-TIE	(6) - SDWC15600 SCREWS BY SIMPSON STRONG-TIE
12X16 RS	(2) - CBH2.37x7.63C BY SIMPSON STRONG-TIE	(8) - SDWC15600 SCREWS BY SIMPSON STRONG-TIE

NOTES:

1. SCHEDULED CONNECTIONS AND UPLIFT SCREWS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
2. CONNECTIONS SHALL BE CONCEALED IN THE CARRIED BEAM.



8 TYPICAL TIMBER BEAM TO TIMBER COLUMN CONNECTION

3/4" = 1'-0"

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drawn: BG	app'd: JG	HGA job #: 225066

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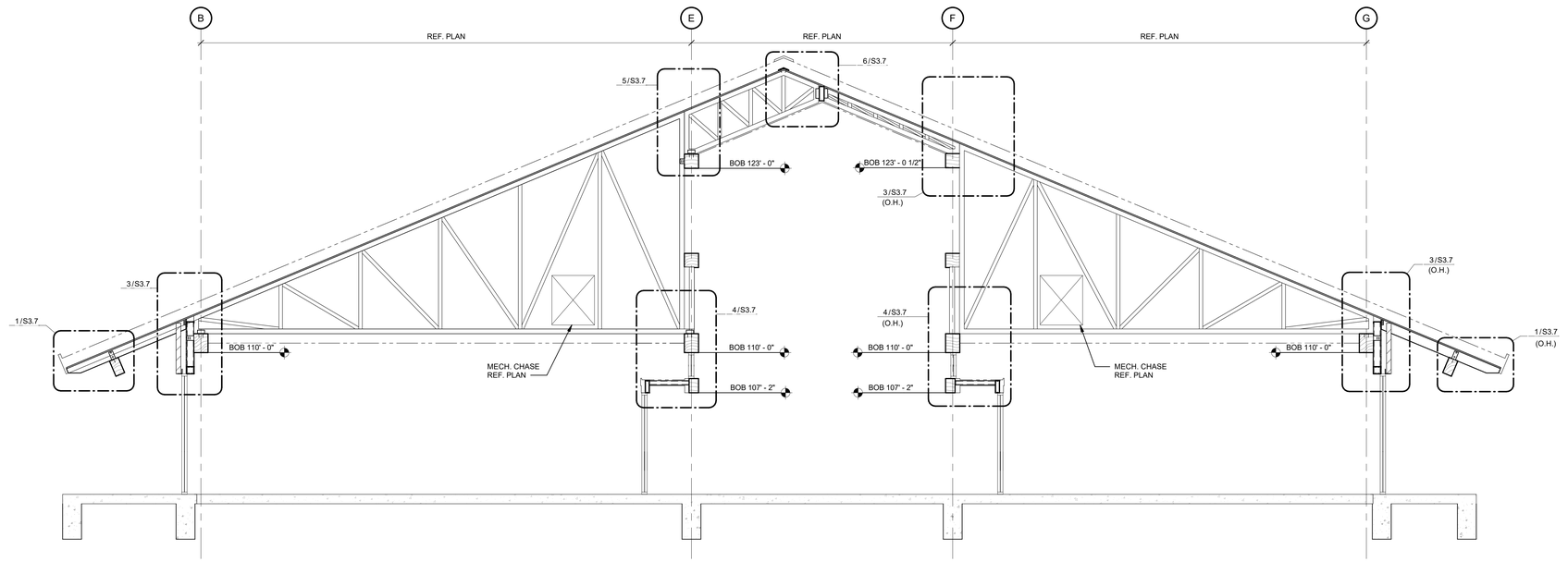
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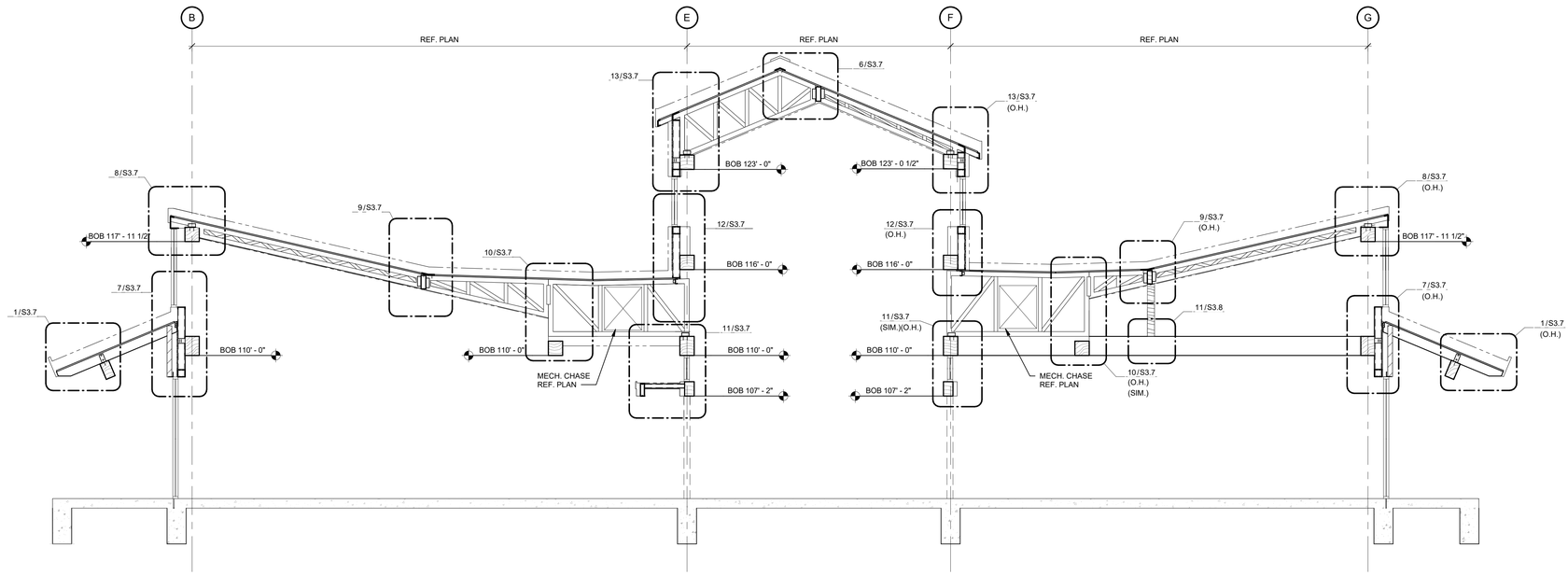
NO.	REVISION	DATE

S3.1

TYPICAL ROOF FRAMING DETAILS



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



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

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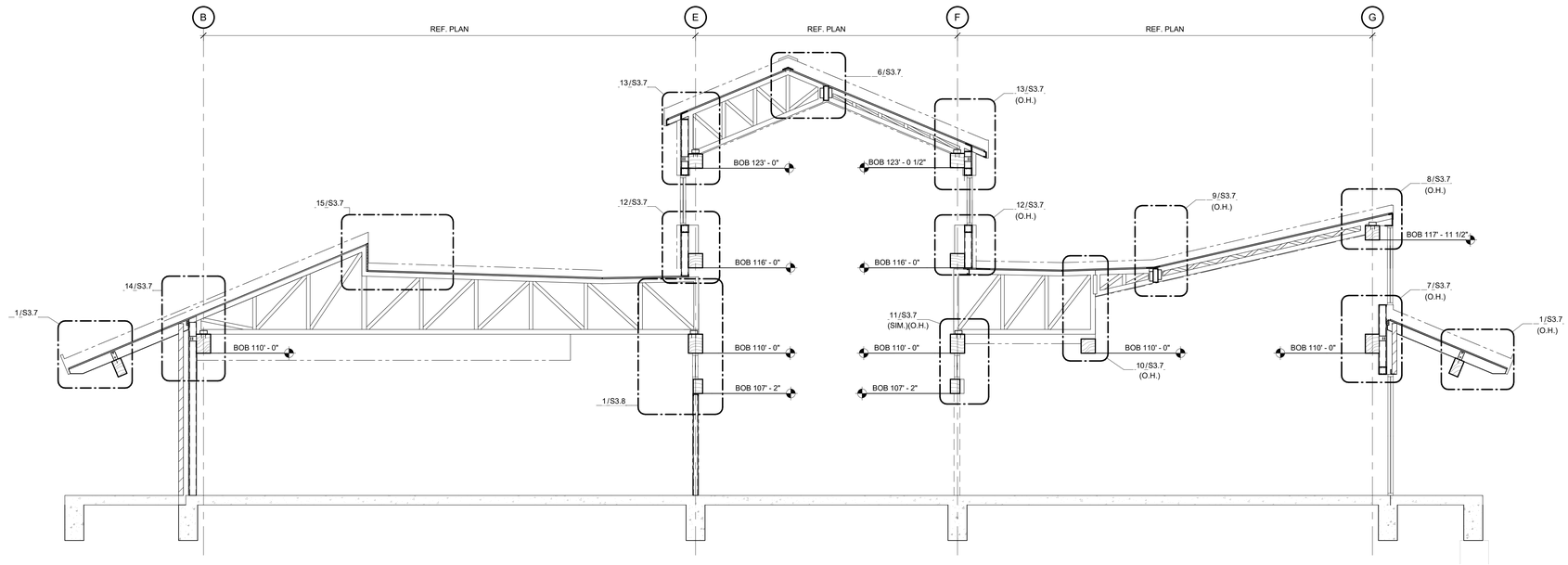
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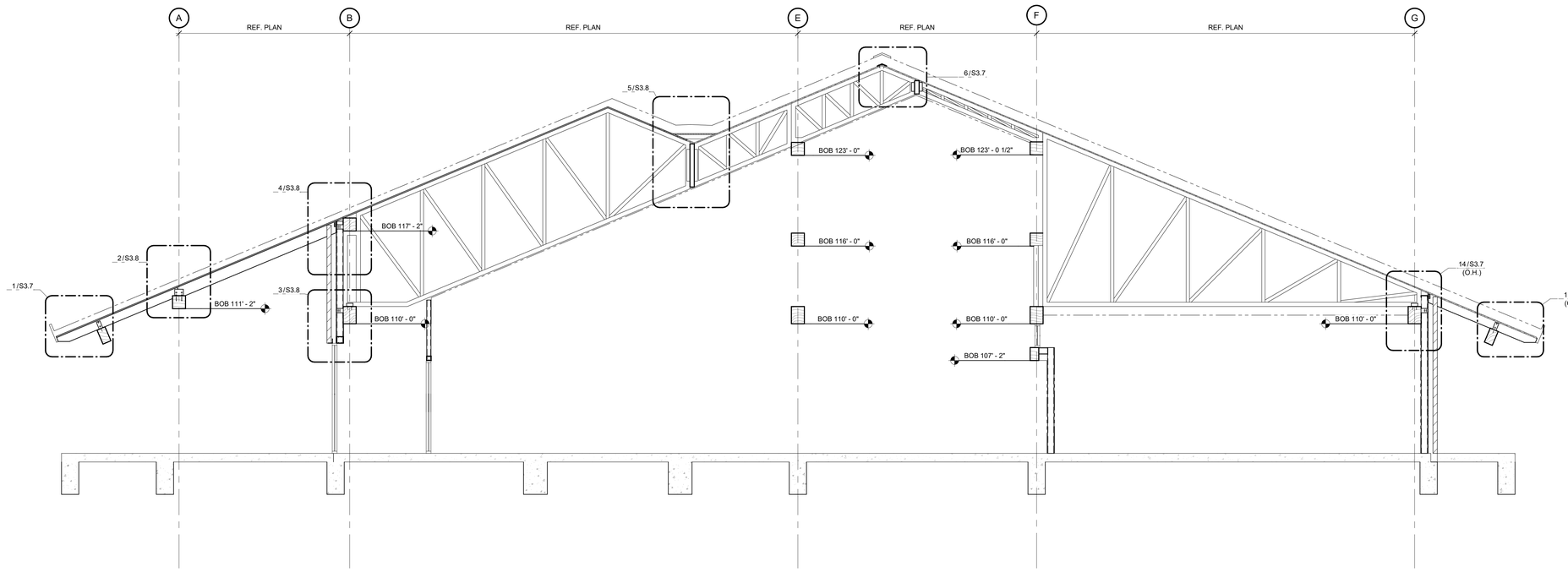
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S3.2

ROOF FRAMING
SECTIONS & DETAILS



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



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

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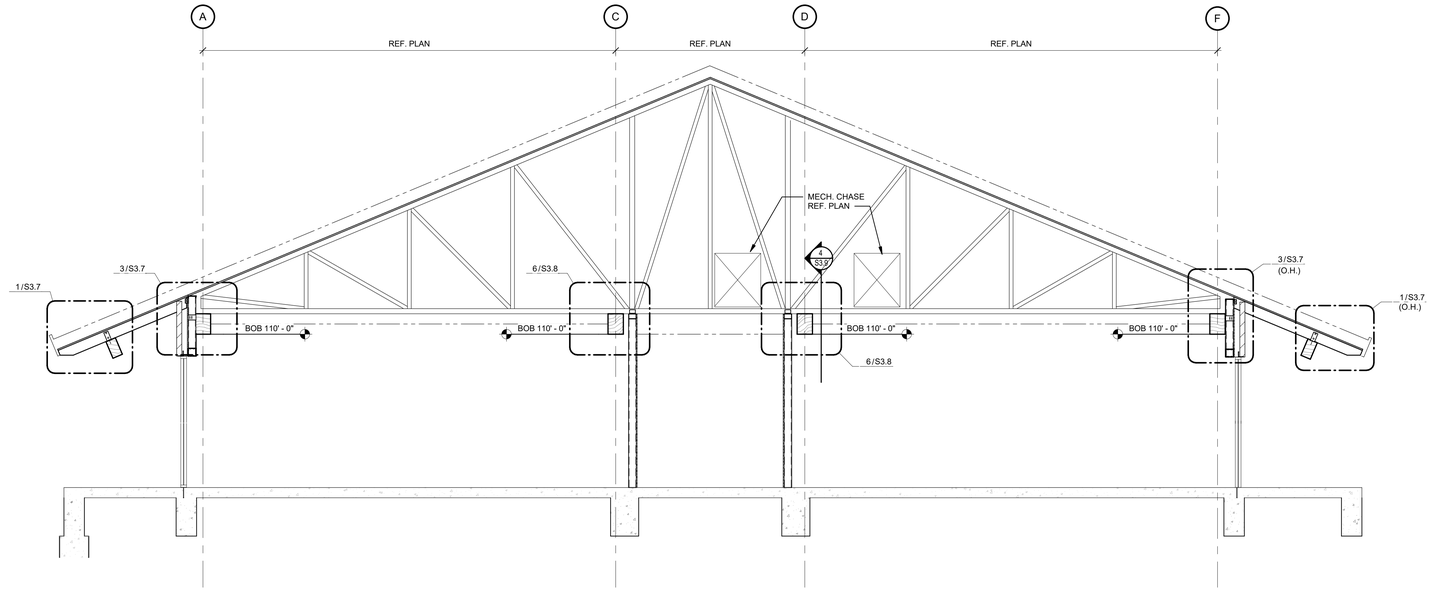
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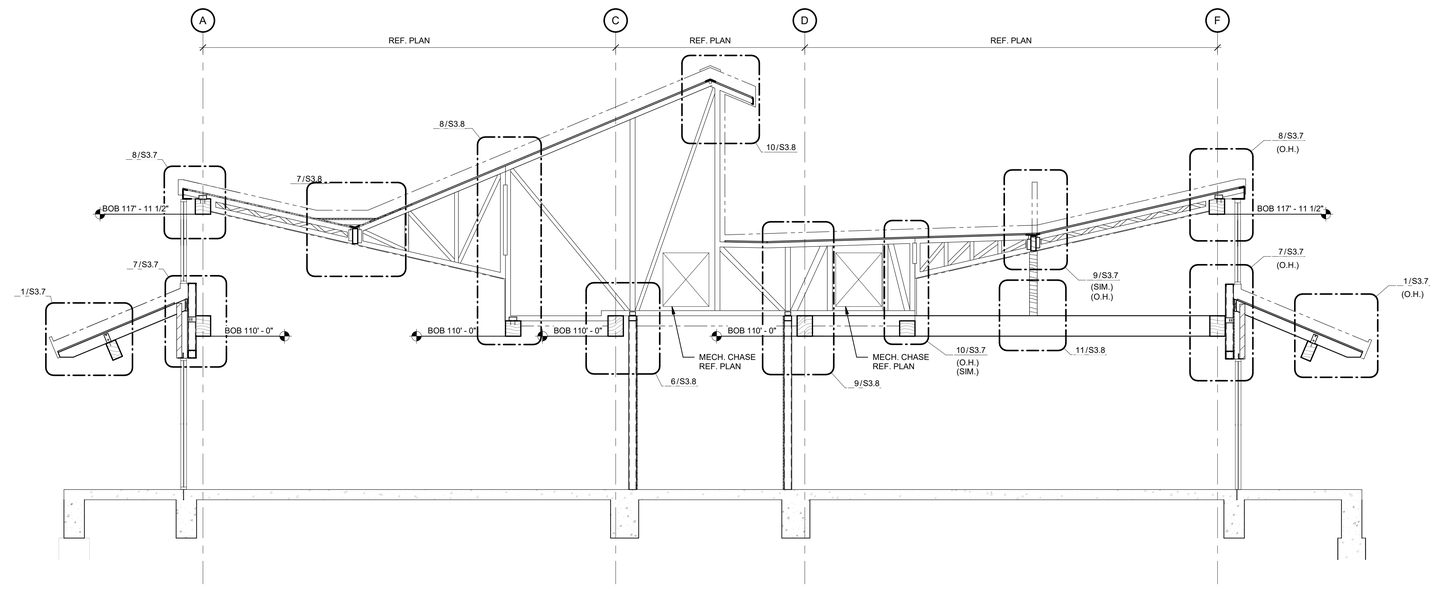
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S3.3
ROOF FRAMING SECTIONS & DETAILS



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



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

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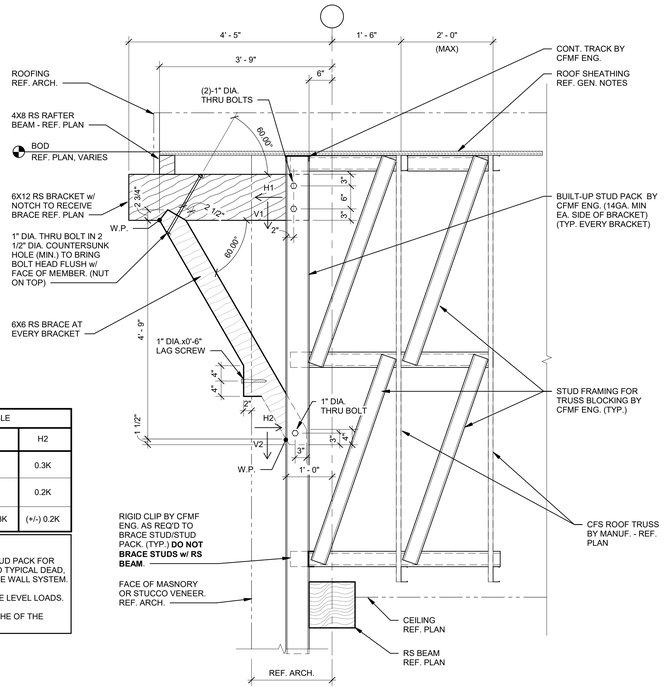
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S3.4
ROOF FRAMING
SECTIONS & DETAILS

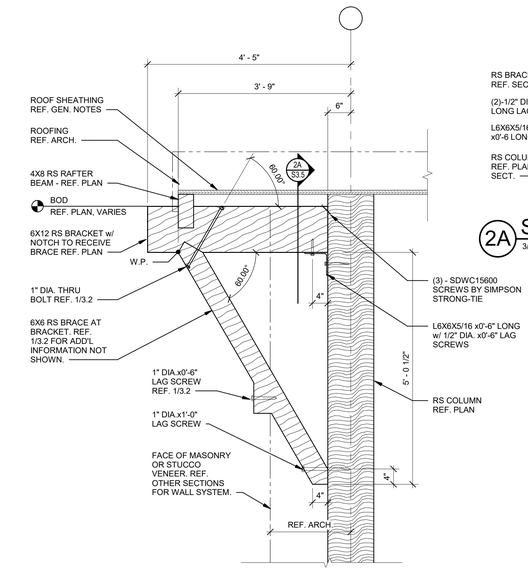


BRACKET & BRACE REACTION TABLE				
LOAD CASE	P1	H1	P2	H2
DEAD	0.4K	0.3K	0.5K	0.3K
ROOF LIVE	0.3K	0.2K	0.3K	0.2K
WIND (1.0W)	(+/-) 0.3K	(+/-) 0.2K	(+/-) 0.3K	(+/-) 0.2K

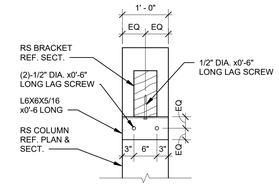
NOTES:

1. CFMF ENGINEER SHALL DESIGN BUILT-UP STUD PACK FOR REACTIONS SHOWN IN TABLE IN ADDITION TO TYPICAL DEAD, ROOF LIVE, AND WIND LOADS APPLIED TO THE WALL SYSTEM.
2. LOADS IN TABLE ARE UNFACTORED ULTIMATE LEVEL LOADS.
3. POSITIVE LOADS ACT IN THE DIRECTION OF THE OF THE ARROWS SHOWN IN THE DETAIL.

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

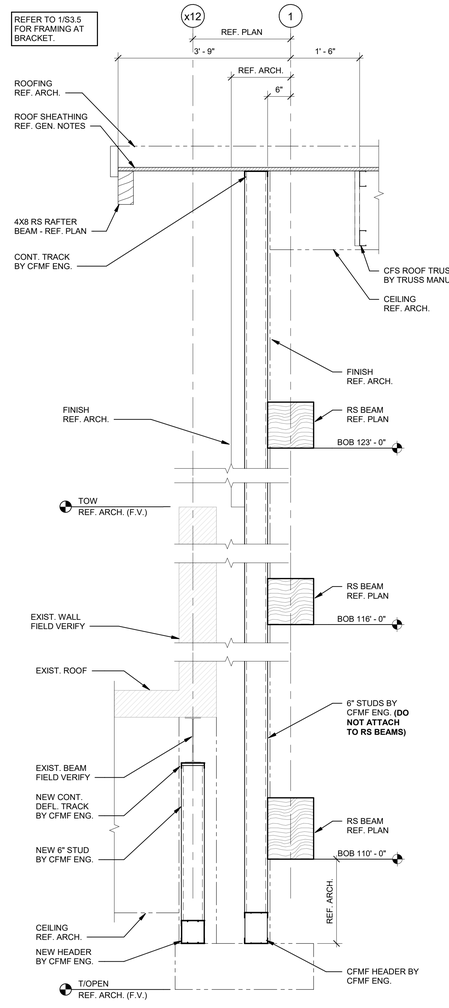


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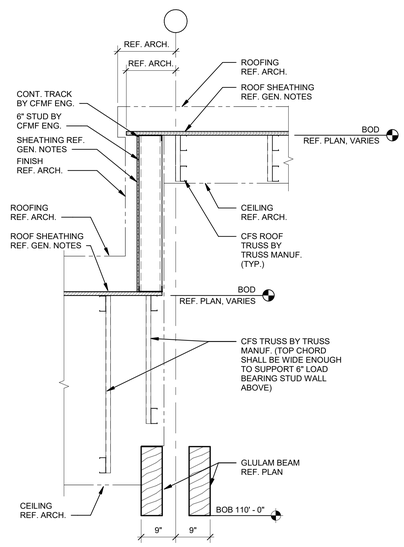


2A SECTION
3/4" = 1'-0"

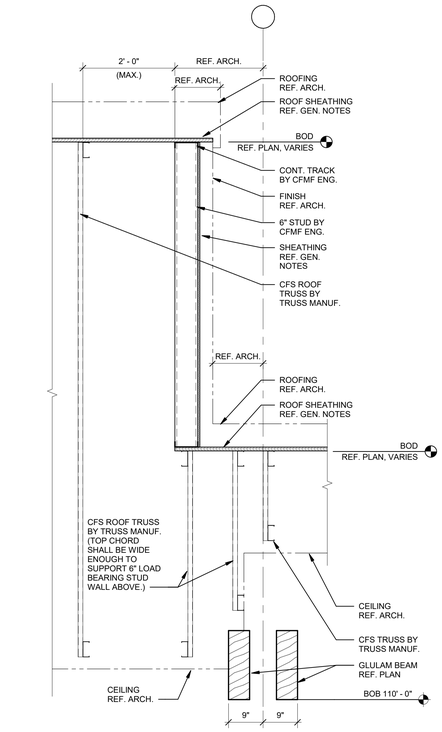
REFER TO 1/S3.5 FOR FRAMING AT BRACKET.



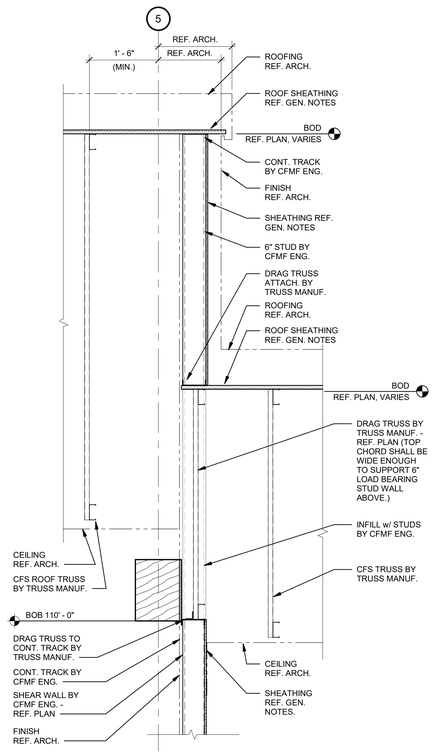
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3/4" = 1'-0"



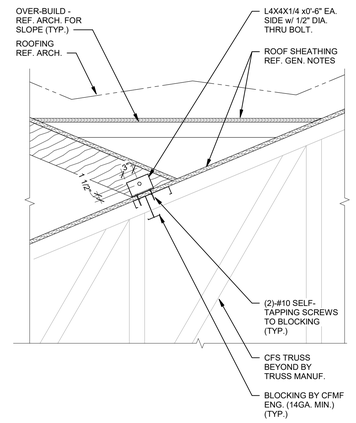
4 SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"

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01/20/2026

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DESIGN BG	DRAWN JG	REVIEW	225066

TEXAS REGISTERED ENGINEERING FIRM # F-5053

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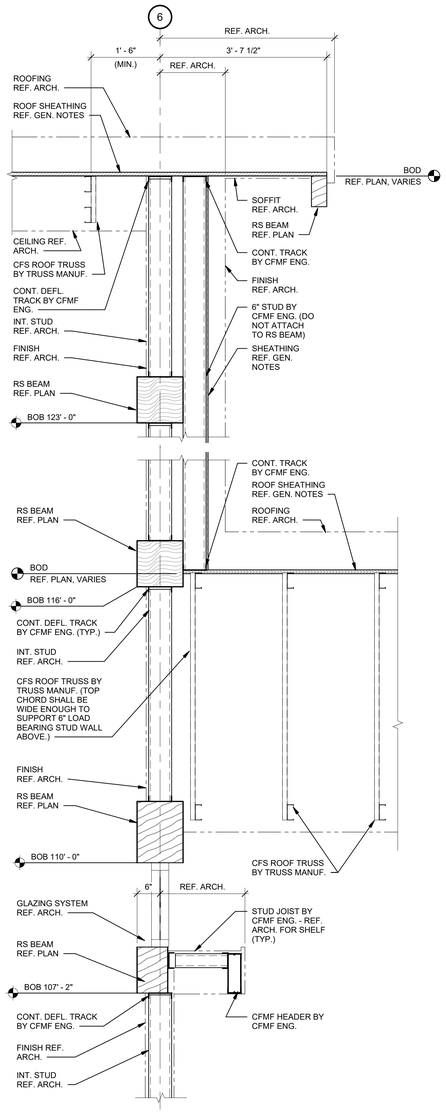
DATE	JANUARY 20, 2026
DRAWN BY	BCG
CHECKED BY	JG
BRW PROJECT NUMBER	225057.00

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WESTLAKE, TX 76262

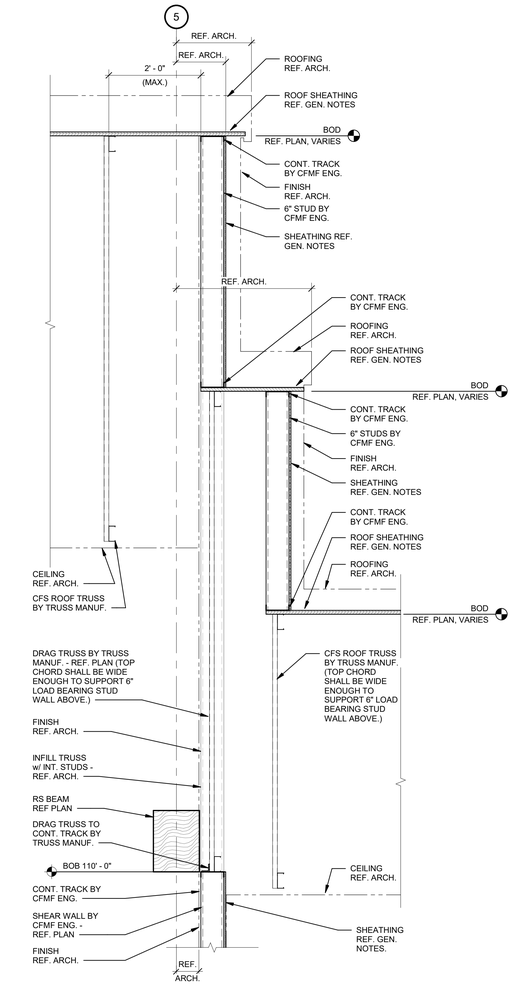
NO.	REVISION	DATE

S3.5

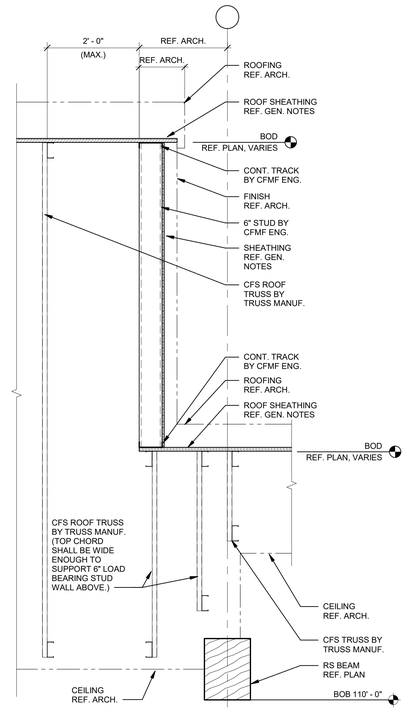
ROOF FRAMING
SECTIONS & DETAILS



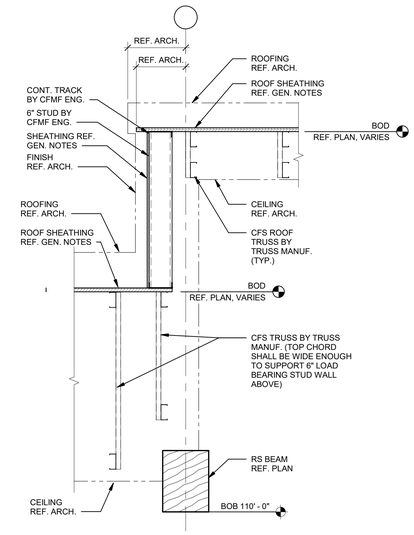
1 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"



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



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

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www.hartgaugler.com

DRWN: BG	REVIEW: JG	HG+A JOB # 225066	TEXAS REGISTERED ENGINEERING FIRM # F-6053

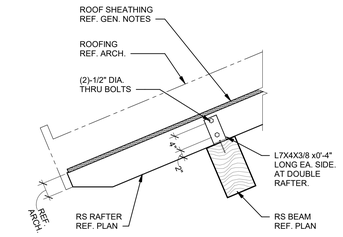
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BRW PROJECT NUMBER	225057.00

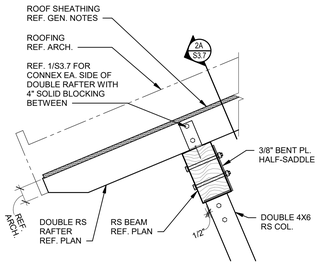
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ARTS & SCIENCES ADDITION
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WESTLAKE, TX 76262

NO.	REVISION	DATE

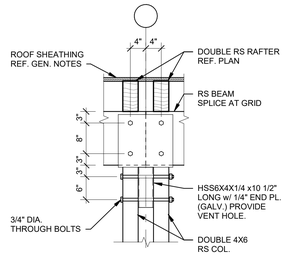
S3.6
ROOF FRAMING
SECTIONS & DETAILS



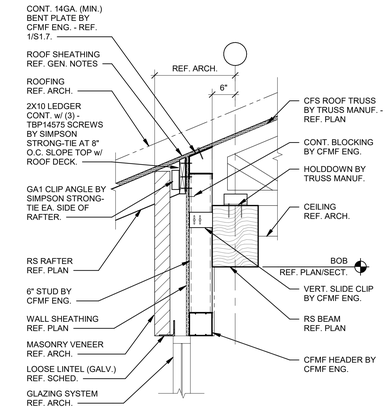
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3/4" = 1'-0"



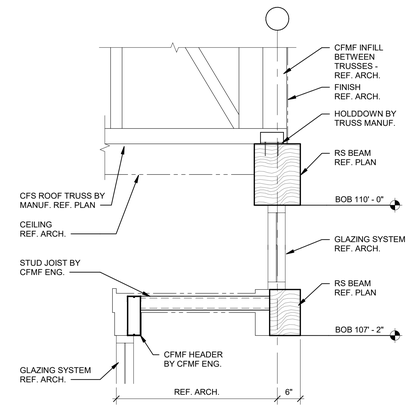
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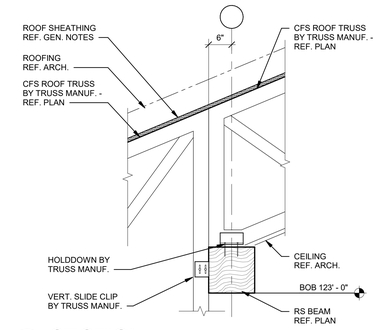
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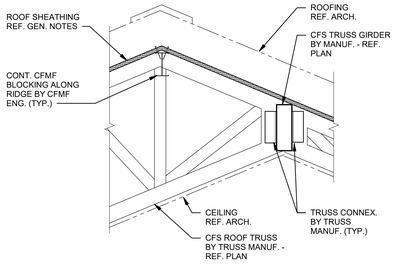
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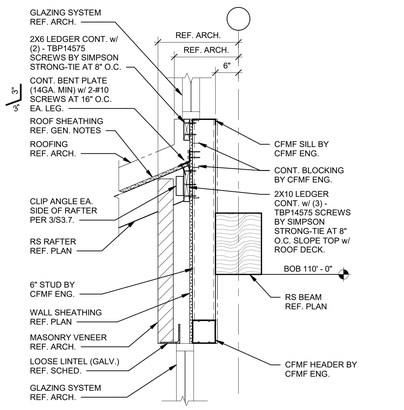
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3/4" = 1'-0"



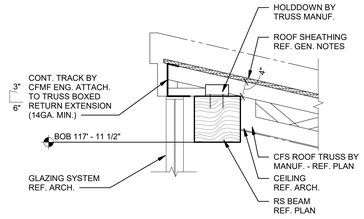
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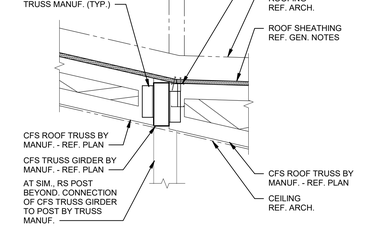
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3/4" = 1'-0"



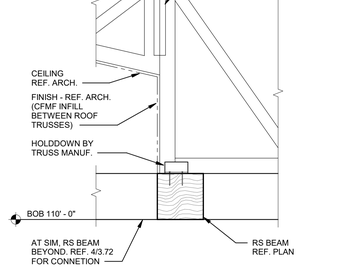
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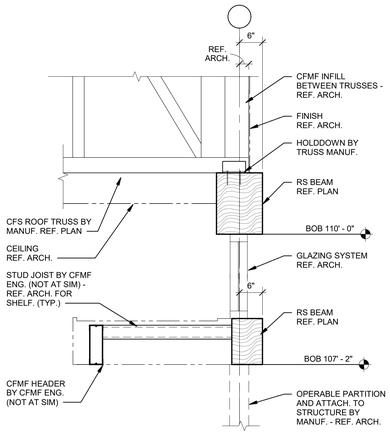
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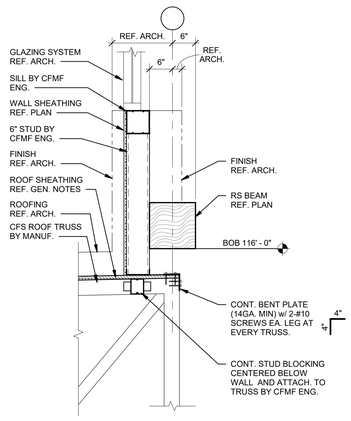
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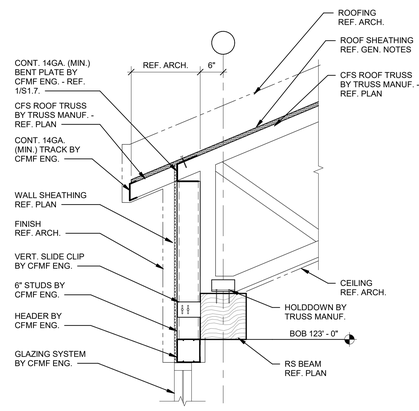
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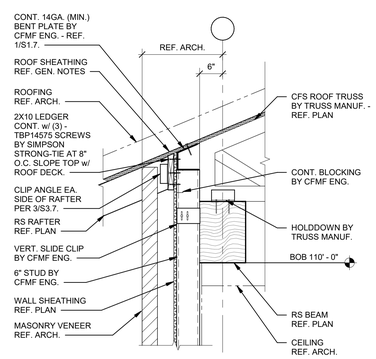
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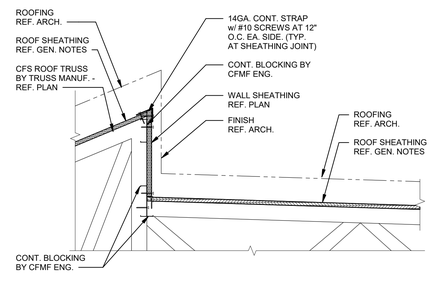
12 SECTION
3/4" = 1'-0"



13 SECTION
3/4" = 1'-0"



14 SECTION
3/4" = 1'-0"



15 SECTION
3/4" = 1'-0"

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STATE OF TEXAS
JORDAN G. GIBBS
128551
REGISTERED
PROFESSIONAL
ENGINEER
01/20/2026

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DRWN: BG	JG
REV.-REV.#	225066
TEXAS REGISTERED ENGINEERING FIRM # F-6053	

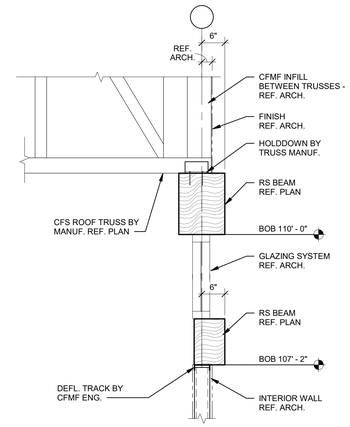
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BRW PROJECT NUMBER	225057.00

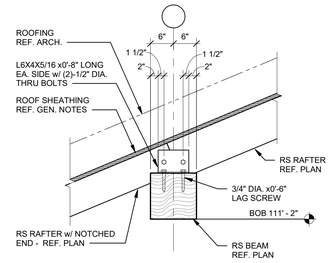
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NO.	REVISION	DATE

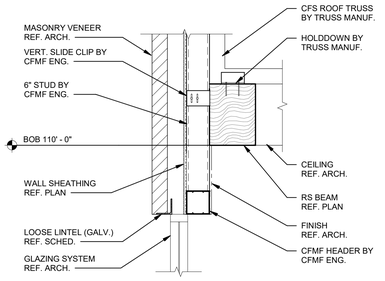
S3.7
ROOF FRAMING
SECTIONS & DETAILS



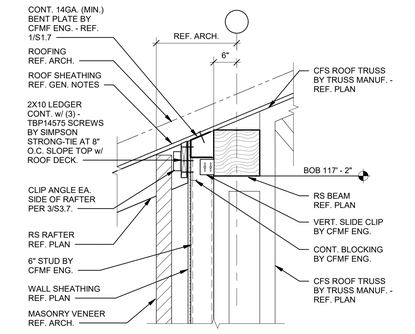
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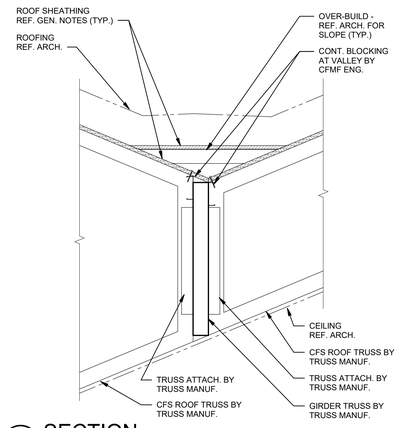
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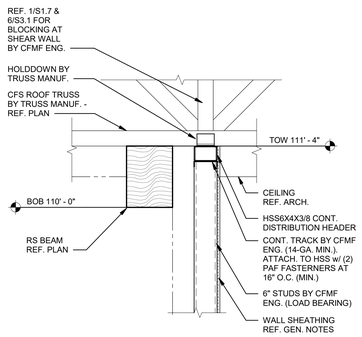
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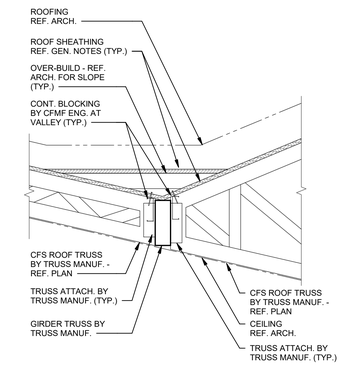
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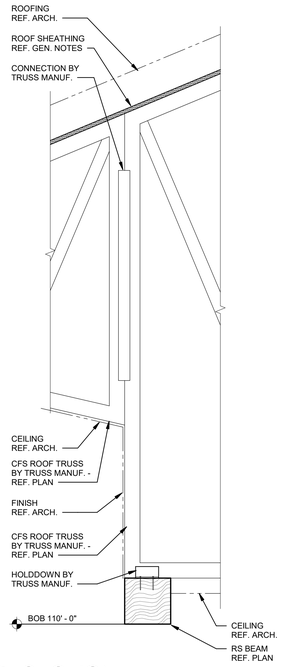
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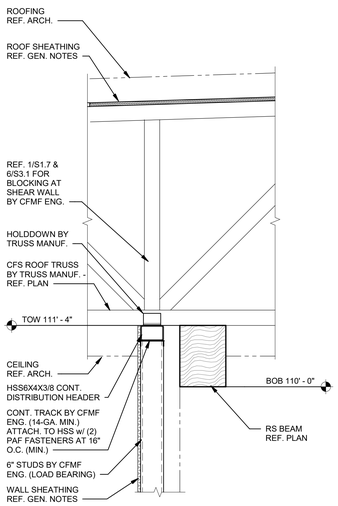
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3/4" = 1'-0"



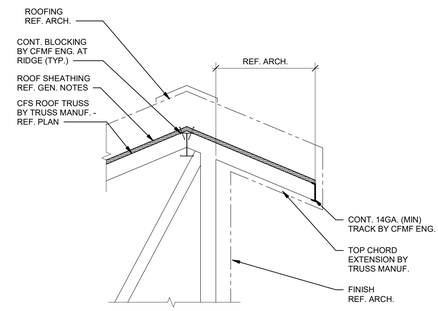
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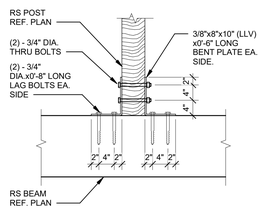
8 SECTION
3/4" = 1'-0"



9 SECTION
3/4" = 1'-0"



10 SECTION
3/4" = 1'-0"



11 SECTION
3/4" = 1'-0"

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DRAWN: BG	REVIEW: JG	PROJECT #: 225066	TEXAS REGISTERED ENGINEERING FIRM # F-6053

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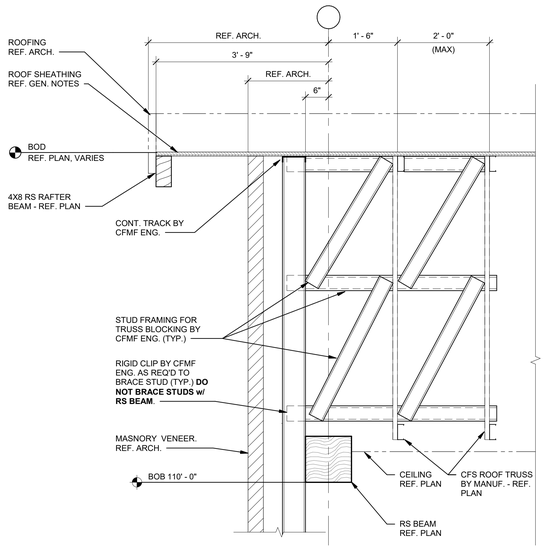
DATE	JANUARY 20, 2026
DRAWN BY	BCG
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BRW PROJECT NUMBER	225057.00

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ARTS & SCIENCES ADDITION
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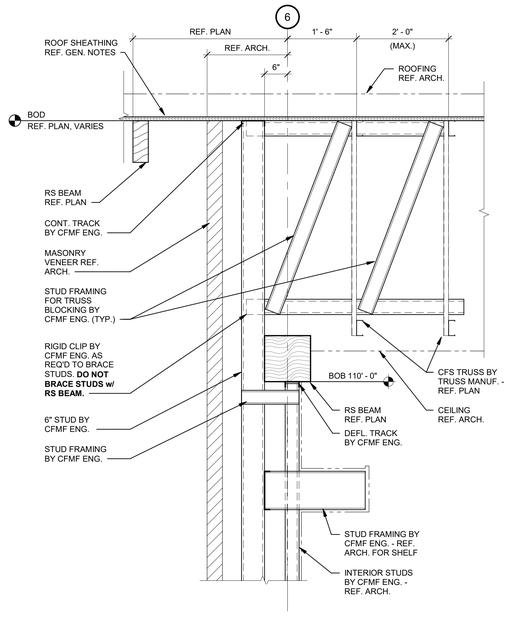
NO.	REVISION	DATE

S3.8

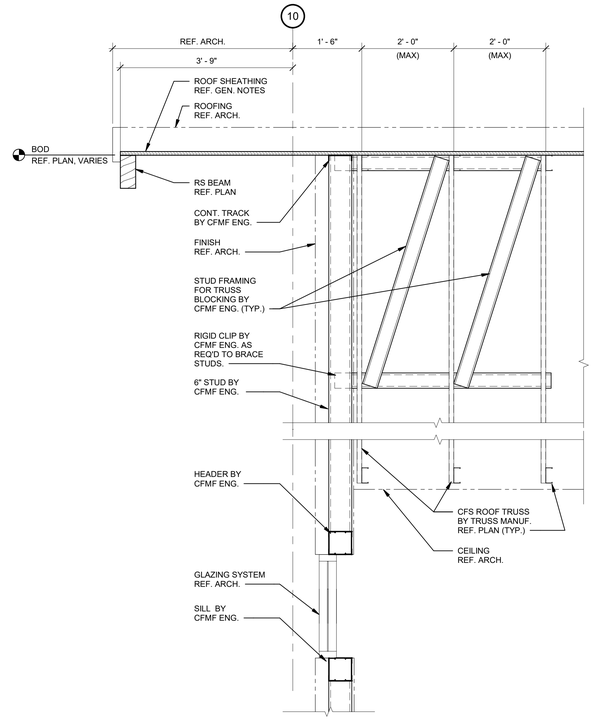
ROOF FRAMING SECTIONS & DETAILS



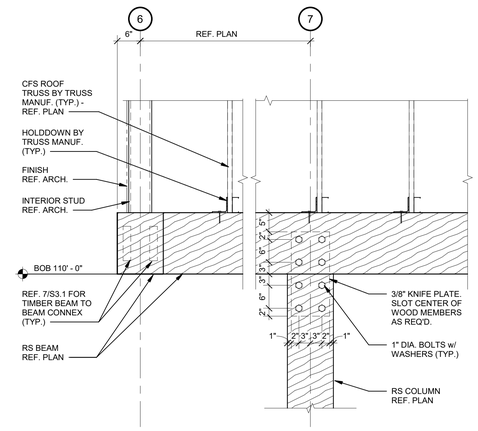
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3/4" = 1'-0"



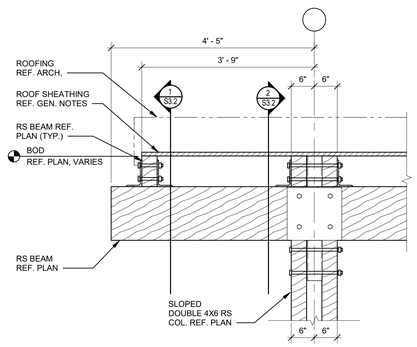
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3/4" = 1'-0"



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



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



5 SECTION
3/4" = 1'-0"

ISSUE FOR PROPOSALS

BRWARCHITECTS
3535 TRAVIS STREET
SUITE 100
DALLAS, TEXAS 75204
214.528.8704
BRWARCH.COM

STATE OF TEXAS
JORDAN G. GIBBS
128551
REGISTERED
PROFESSIONAL
01/20/2026

HART GAUGLER + ASSOCIATES
STRUCTURAL ENGINEERS
8350 N. Central Expressway, Suite 600
Dallas, TX 75206
www.hartgaugler.com
DRAWN: BG | JOB #: 225066
TEXAS REGISTERED ENGINEERING FIRM # F-6053

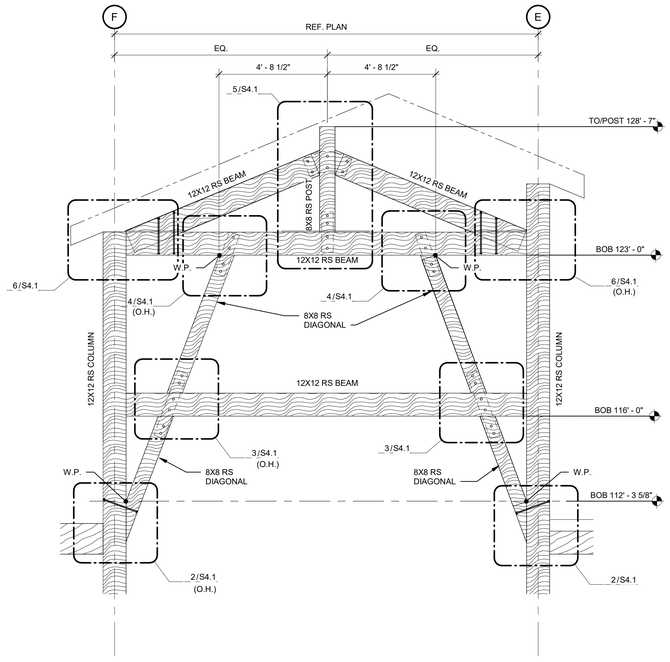
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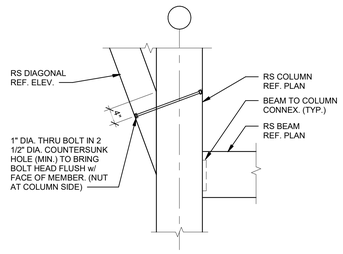
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2400 J.T. OTTINGER RD.
WESTLAKE, TX 76262

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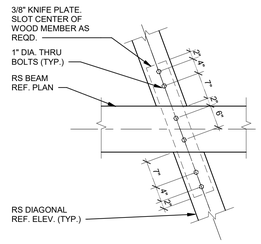
S3.9
ROOF FRAMING
SECTIONS & DETAILS



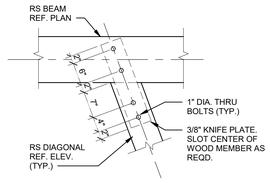
1 TYPICAL KNEE BRACE ELEVATION
3/8" = 1'-0"



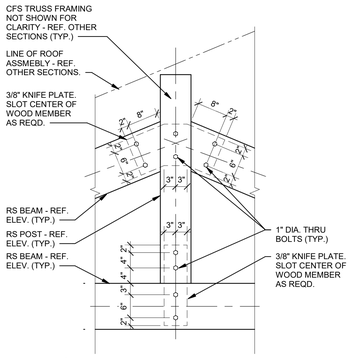
2 DETAIL
3/4" = 1'-0"



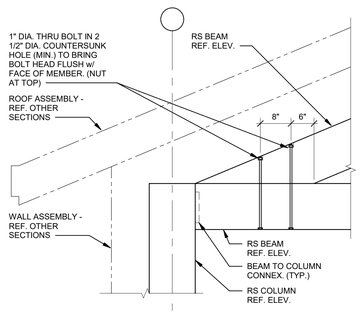
3 DETAIL
3/4" = 1'-0"



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



5 DETAIL
3/4" = 1'-0"



6 DETAIL
3/4" = 1'-0"

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DRWN: BG	RSVR: JG	REV. #'s:	225066

TEXAS REGISTERED ENGINEERING FIRM # F-6053

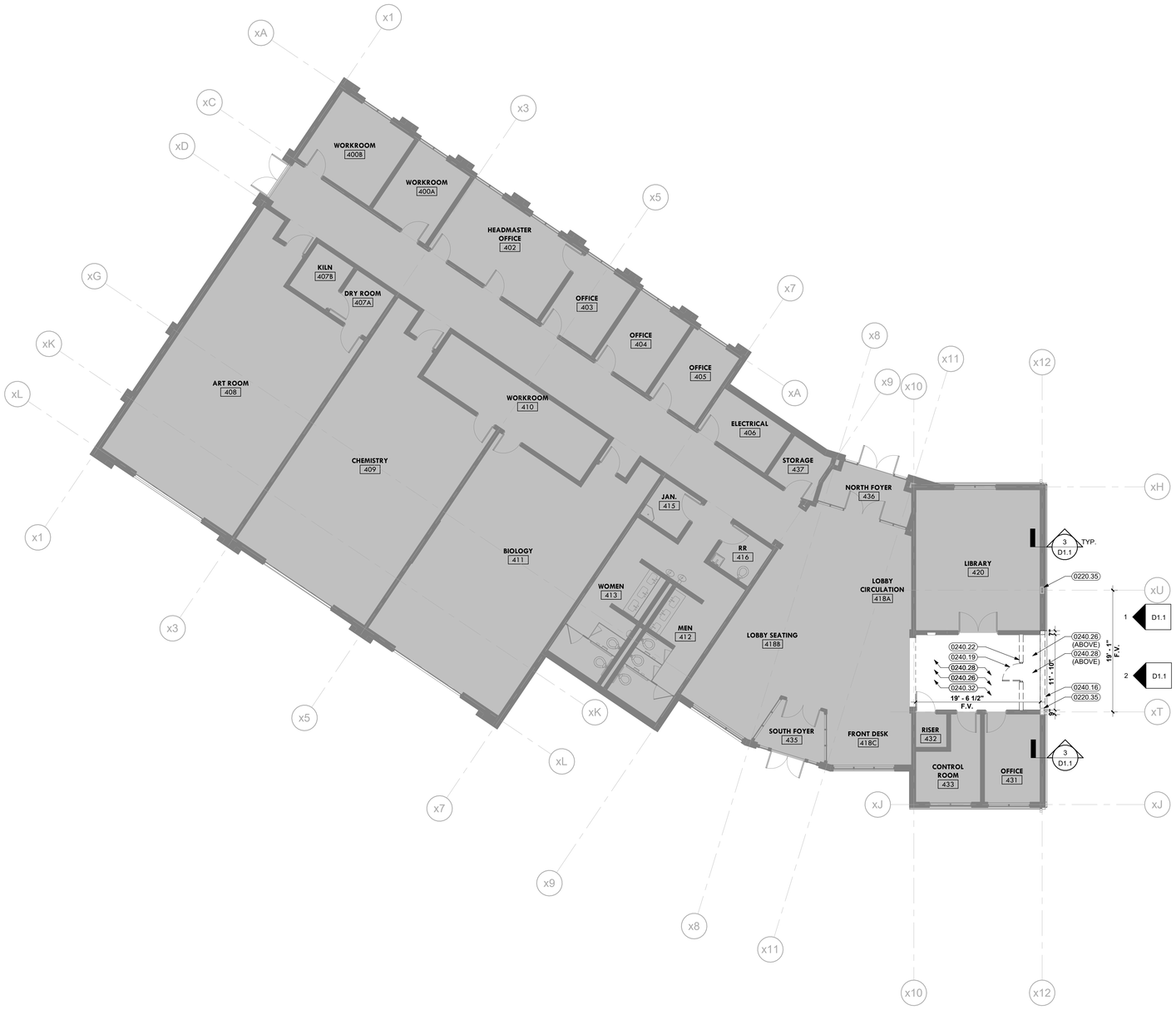
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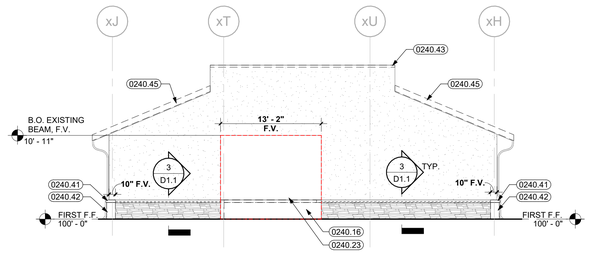
NO.	REVISION	DATE

S4.1
TIMBER TRUSS ELEVATIONS AND DETAILS

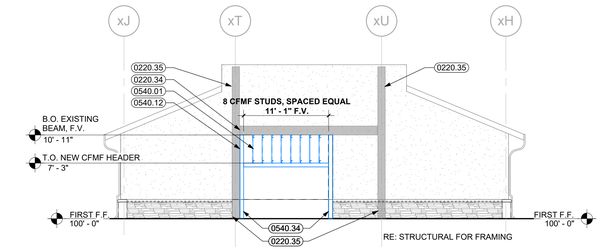


4 DEMOLITION PLAN
1/8" = 1'-0"

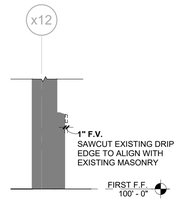
PLAN NORTH / TRUE NORTH



1 DEMOLITION ELEVATION
1/8" = 1'-0"



2 DEMOLITION & NEW FRAMING DIAGRAM
1/8" = 1'-0"



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

KEYNOTES

0220.34	EXISTING W12X14 STEEL BEAM TO REMAIN, F.V.
0220.35	EXISTING HSS 12X6X3/8 STEEL COLUMN TO REMAIN, F.V.
0240.16	REMOVE EXISTING MASONRY WALL
0240.19	REMOVE EXISTING DOOR AND FRAME
0240.22	REMOVE EXISTING STUD WALL
0240.23	REMOVE PORTION OF EXISTING WALL
0240.26	REMOVE EXISTING ACOUSTICAL TILE CEILING AND SUSPENSION SYSTEM
0240.28	REMOVE EXISTING LIGHT FIXTURE
0240.32	CAREFULLY REMOVE AND SALVAGE EXISTING WALL AND CEILING MOUNTED DEVICES INCLUDING FIRE ALARM DEVICES, CLOCKS, SPEAKERS, AND WIRELESS ACCESS DEVICES. REINSTALL DEVICES AT NEW WALLS AND CEILINGS
0240.41	CAREFULLY SAWCUT AND CLEANLY REMOVE EXTERIOR CAST STONE TO ALLOW FOR 1" CLEAR FOR E.J.
0240.42	CAREFULLY REMOVE EXTERIOR STONE VENEER TO ALLOW FOR 1" CLEAR FOR E.J.
0240.43	REMOVE EXISTING FLASHING AND FLASHING CAP
0240.45	REMOVE CONCRETE TILE CAP EDGE
0540.01	COLD-FORMED METAL FRAMING (RE: STRUCTURAL)
0540.12	COLD-FORMED METAL HEADER (RE: STRUCTURAL)
0540.34	6" METAL JAMB (C.F.M.F.) (RE: STRUCTURAL)

DEMOLITION LEGEND

PATTERN	DESCRIPTION
	NO ARCHITECTURAL DEMOLITION SCOPE
	EXISTING WALL TO REMAIN
	EXISTING WALL TO BE REMOVED
	EXISTING STRUCTURE
	DEMOLISH EXISTING STUD FRAMING
	NEW FRAMING AT EXISTING WALL
	EXISTING DOOR AND FRAME
	EXISTING DOOR AND FRAME TO BE REMOVED AND SALVAGED

ISSUE FOR PROPOSALS

REGISTERED ARCHITECT · ANNE HILDENBRAND · 19243 · STATE OF TEXAS
1/20/2026

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CHECKED BY	RVH, AIH
BRW PROJECT NUMBER	225057.00

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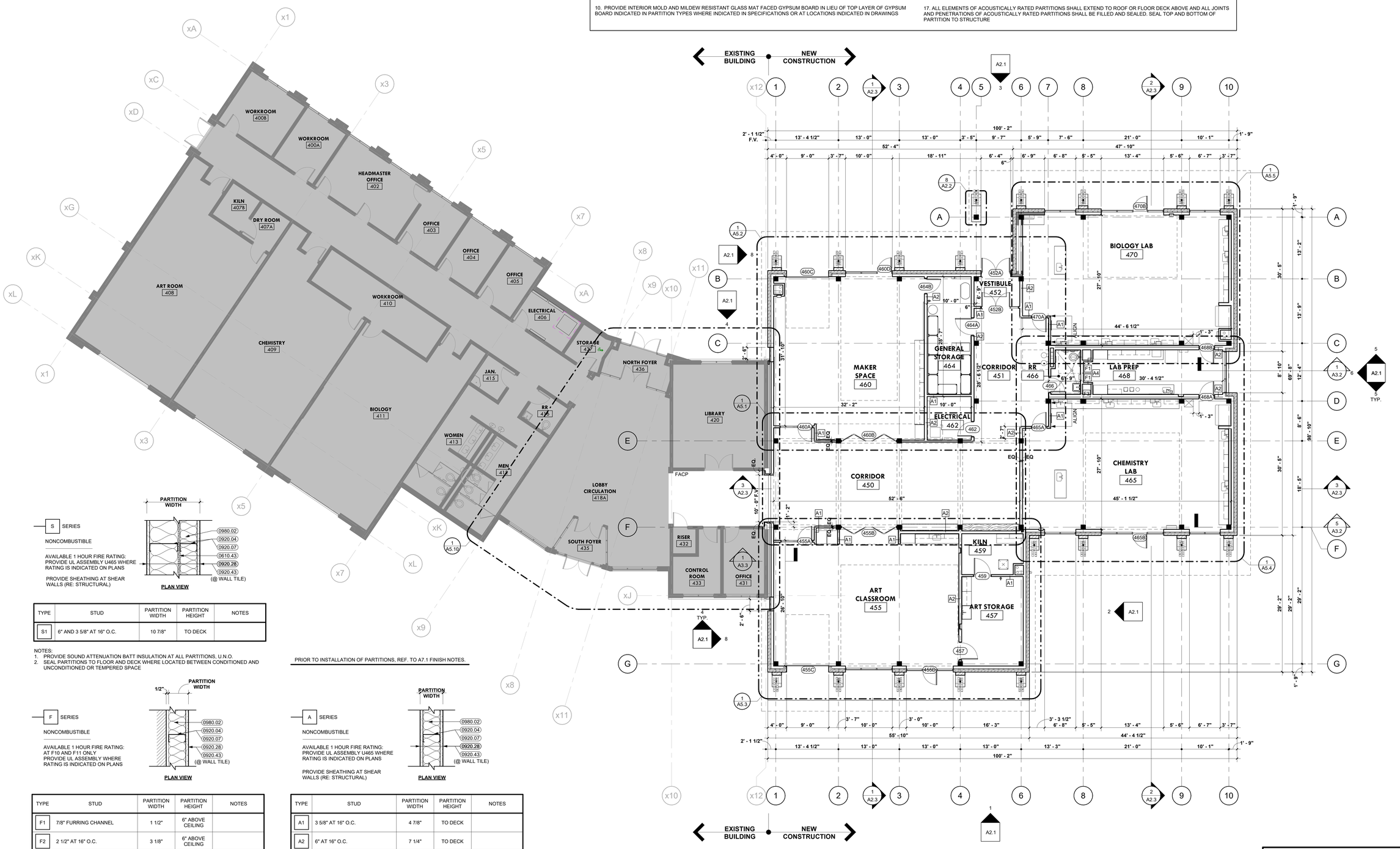
D1.1
DEMOLITION DRAWINGS

PARTITION GENERAL NOTES:

1. PARTITION REQUIREMENTS SHOWN ARE MINIMUM STANDARDS
2. PARTITIONS SHALL BE TYPE "A1" UNLESS OTHERWISE NOTED
3. TYPICAL FLOOR PLAN DIMENSIONS OF PARTITIONS ARE TO THE NOMINAL FINISH FACE OF GYPSUM BOARD
4. WHERE A CLEAR DIMENSION OR OPENING IS REQUIRED OR NOTED, MEASURE DIMENSION TO FACE OF PARTITION FINISH
5. WHERE PARTITIONS AND / OR FURRING MEET, MAINTAIN A FLUSH SURFACE ON THE SIDE WHERE THE FINISH IS STRAIGHT OR CONTINUOUS UNLESS NOTED OTHERWISE
6. PROVIDE STUD BRACING AT 4'-0" O.C. STAGGERED IN ALTERNATING DIRECTIONS. BRACING SHALL ATTACH TO STUDS 1'-0" MAX. ABOVE CEILING UNLESS NOTED OTHERWISE
7. PROVIDE CEMENTITIOUS BACKER BOARD IN LIEU OF TOP LAYER OF GYPSUM BOARD INDICATED IN PARTITION TYPES, AT ALL AREAS THAT ARE SCHEDULED TO RECEIVE CERAMIC TILE FINISH AND AT AREAS SO REQUIRED BY CODE
8. INSTALL BLOCKING OR BACKER MATERIAL FOR ATTACHMENT / MOUNTING OF WALL HUNG ITEMS OR EQUIPMENT DESCRIBED IN THE DOCUMENTS. PROVIDE FIRE RETARDANT TREATED BLOCKING WHERE INDICATED OR REQUIRED BY APPLICABLE BUILDING CODE
9. PROVIDE ABUSE / IMPACT RESISTANT GYPSUM BOARD IN LIEU OF TOP LAYER OF GYPSUM BOARD INDICATED IN PARTITION TYPES WHERE INDICATED IN SPECIFICATIONS OR AT LOCATIONS INDICATED IN DRAWINGS
10. PROVIDE INTERIOR MOLD AND MILDEW RESISTANT GLASS MAT FACED GYPSUM BOARD IN LIEU OF TOP LAYER OF GYPSUM BOARD INDICATED IN PARTITION TYPES WHERE INDICATED IN SPECIFICATIONS OR AT LOCATIONS INDICATED IN DRAWINGS
11. WHEREVER THERMAL OR ACOUSTICAL BATT INSULATION IS INDICATED IN WALL CAVITIES, PACK VOIDS IN LIGHT GAUGE METAL FRAMING THAT WILL NOT BE ACCESSIBLE AFTER ERECTION (INCLUDING BUT NOT LIMITED TO HEADERS AND STUD PACKS). FILL VOIDS AS FRAMING IS ERECTED WITH SAME TYPE AND RATING BATT INSULATION AS INDICATED IN CAVITY WHERE VOIDS ARE SUBJECT TO GETTING WET PRIOR TO BUILDING DRY-IN, USE MINERAL FIBER BATTS FOR PACKING VOIDS. [ALTERNATIVELY, WHERE APPROVED BY ARCHITECT, EQUIVALENT SPRAY FOAM INSULATION MAY BE PROVIDED IN VOIDS AFTER ERECTION]
12. INSTALLATION OF GYPSUM BOARD, BACKER BOARD AND BASE BOARD SHALL CONFORM TO REQUIREMENTS FOR FIRE RATINGS AND ACOUSTICAL RATINGS
13. 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
14. AT FIRE RATED PARTITIONS, PROVIDE FIRESTOPPING AT PENETRATIONS, JOINTS, AND OTHER JUNCTIONS BETWEEN FIRE RATED PARTITIONS AND ADJACENT ASSEMBLIES, COMPLIANT WITH APPLICABLE BUILDING CODE AND TESTING AGENCY REQUIREMENTS
15. FIRE AND / OR ACOUSTICAL TEST REFERENCES CALLED OUT MAY VARY DEPENDING ON THE MANUFACTURER OF ASSEMBLIES AND COMPONENTS USED IN ACTUAL CONSTRUCTION
16. ALL FIRE / SMOKE RATED PARTITIONS SHALL BE LABELED PER APPLICABLE BUILDING CODE AND TESTING AGENCY REQUIREMENTS
17. 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. SEAL TOP AND BOTTOM OF PARTITION TO STRUCTURE

KEYNOTES

0610.43	SHEAR WALL SHEATHING (RE: STRUCTURAL)
0920.04	3-5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C. MAXIMUM
0920.07	6" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C. MAXIMUM
0920.28	5/8" GYPSUM BOARD (TYPE X)
0920.43	1/2" CEMENTITIOUS BACKER BOARD
0980.02	3 1/2" MINERAL WOOL SOUND ATTENUATION BATT INSULATION



PARTITION WIDTH

S SERIES

NONCOMBUSTIBLE

AVAILABLE 1 HOUR FIRE RATING: PROVIDE UL ASSEMBLY U465 WHERE RATING IS INDICATED ON PLANS

PROVIDE SHEATHING AT SHEAR WALLS (RE: STRUCTURAL)

0980.02
0920.04
0920.07
0610.43
0920.28
0920.43 (@ WALL TILE)

PLAN VIEW

TYPE	STUD	PARTITION WIDTH	PARTITION HEIGHT	NOTES
S1	6" AND 3 5/8" AT 16" O.C.	10 7/8"	TO DECK	

NOTES:
1. PROVIDE SOUND ATTENUATION BATT INSULATION AT ALL PARTITIONS, U.N.O.
2. SEAL PARTITIONS TO FLOOR AND DECK WHERE LOCATED BETWEEN CONDITIONED AND UNCONDITIONED OR TEMPERED SPACE

PRIOR TO INSTALLATION OF PARTITIONS, REF. TO A7.1 FINISH NOTES.

1/2" PARTITION WIDTH

F SERIES

NONCOMBUSTIBLE

AVAILABLE 1 HOUR FIRE RATING: AT F10 AND F11 ONLY PROVIDE UL ASSEMBLY WHERE RATING IS INDICATED ON PLANS

0980.02
0920.04
0920.07
0920.28
0920.43 (@ WALL TILE)

PLAN VIEW

TYPE	STUD	PARTITION WIDTH	PARTITION HEIGHT	NOTES
F1	7/8" FURRING CHANNEL	1 1/2"	6" ABOVE CEILING	
F2	2 1/2" AT 16" O.C.	3 1/8"	6" ABOVE CEILING	

NOTES:
1. PROVIDE SOUND ATTENUATION BATT INSULATION AT ALL PARTITIONS, U.N.O.
2. CROSS-LAY GYPSUM BOARD LAYERS. JOINTS IN MULTIPLE LAYER ASSEMBLY SHALL NOT BE LAID DIRECTLY OVER EACH OTHER

PARTITION WIDTH

A SERIES

NONCOMBUSTIBLE

AVAILABLE 1 HOUR FIRE RATING: PROVIDE UL ASSEMBLY U465 WHERE RATING IS INDICATED ON PLANS

PROVIDE SHEATHING AT SHEAR WALLS (RE: STRUCTURAL)

0980.02
0920.04
0920.07
0920.28
0920.43 (@ WALL TILE)

PLAN VIEW

TYPE	STUD	PARTITION WIDTH	PARTITION HEIGHT	NOTES
A1	3 5/8" AT 16" O.C.	4 7/8"	TO DECK	
A2	6" AT 16" O.C.	7 1/4"	TO DECK	

NOTES:
1. PROVIDE SOUND ATTENUATION BATT INSULATION AT ALL PARTITIONS, U.N.O.
2. SEAL PARTITIONS TO FLOOR AND DECK WHERE LOCATED BETWEEN CONDITIONED AND UNCONDITIONED OR TEMPERED SPACE

1 PARTITION TYPES
1 1/2" = 1'-0"

AREA TABULATION

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

PLAN NORTH / TRUE NORTH

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

ISSUE FOR PROPOSALS

REGISTERED ARCHITECT ANNE HILDEBRAND STATE OF TEXAS 18243
1/20/2026

BRW ARCHITECTS
3535 TRAVIS STREET SUITE 203
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214-528-8704
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BRW PROJECT NUMBER: 225057.00

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ARTS & SCIENCES ADDITION
2600 J.T. OTTINGER RD.
WESTLAKE, TX 76262

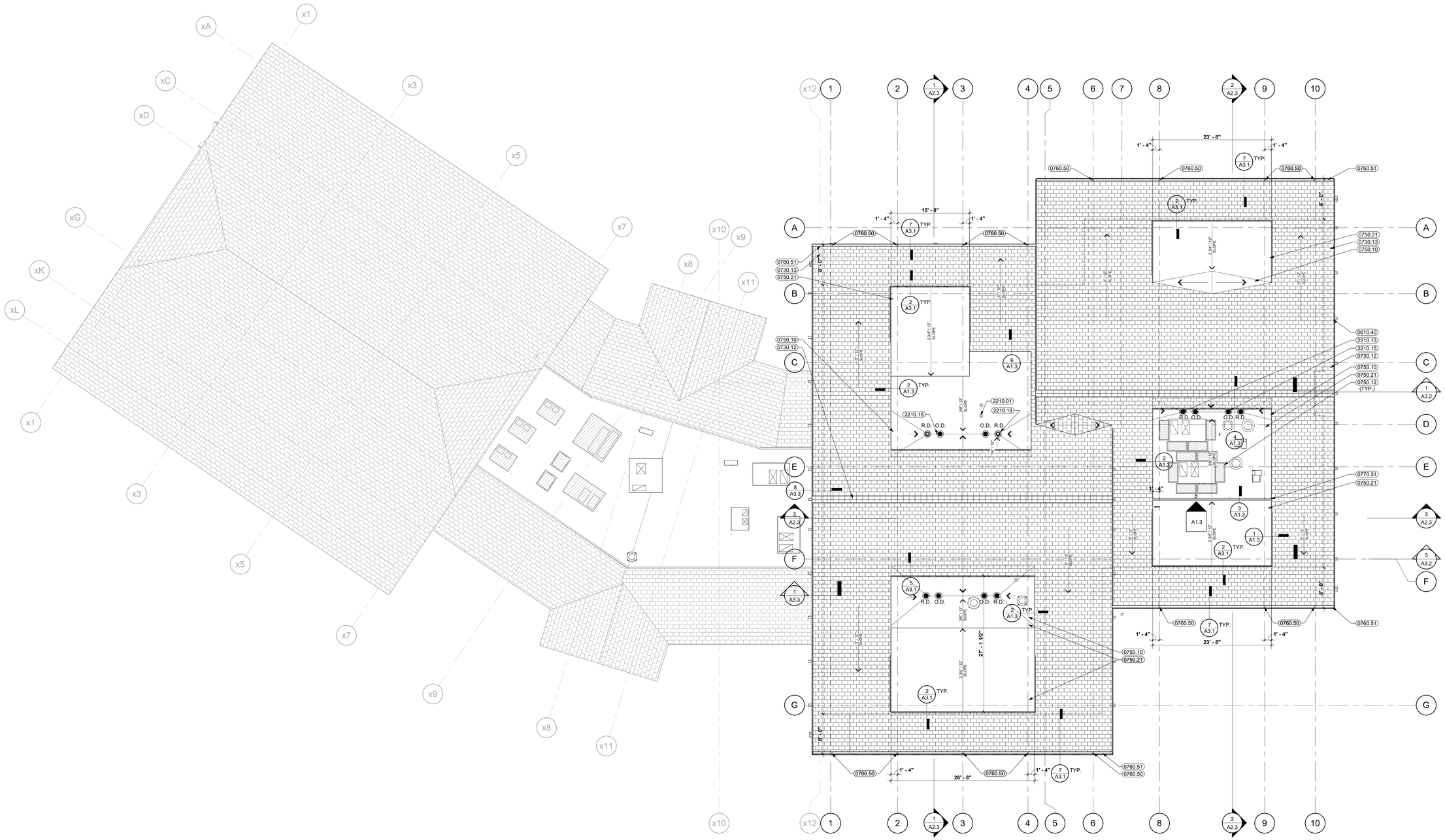
NO.	REVISION	DATE

A1.1

FLOOR PLAN

KEYNOTES

0610.40	ROUGH SAWN WOOD FRAMING, STAINED AND SEALED (RE: STRUCTURAL)
0730.12	CONCRETE TILE RIDGE CAP
0730.13	CONCRETE TILE ROOFING SYSTEM
0750.10	TAPERED ROOF INSULATION
0750.12	WALKWAY PAD
0750.21	PVC ROOFING
0760.50	3" GALVANIZED STEEL DOWNSPOUT
0760.51	PREFINISHED GALVANIZED STEEL GUTTER
0770.31	HYBRID WOOD ALUMINUM ARCHITECTURAL SCREEN
2210.01	PLUMBING VENT (RE: PLUMBING)
2210.13	ROOF DRAIN (RE: PLUMBING)
2210.15	OVERFLOW ROOF DRAIN (RE: PLUMBING)



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

PLAN NORTH
TRUE NORTH

ISSUE FOR PROPOSALS

REGISTERED ARCHITECT
ANNE HILDENBRAND
18243
STATE OF TEXAS
1/20/2026

BRW ARCHITECTS
3535 TRAVIS STREET
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DALLAS, TEXAS 75204
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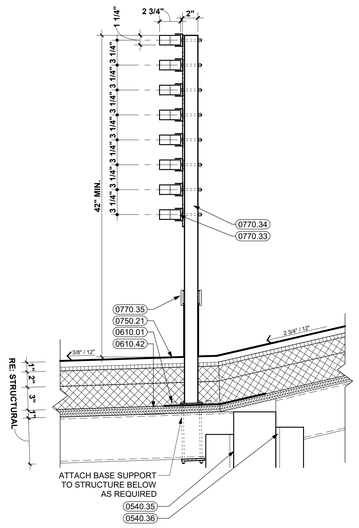
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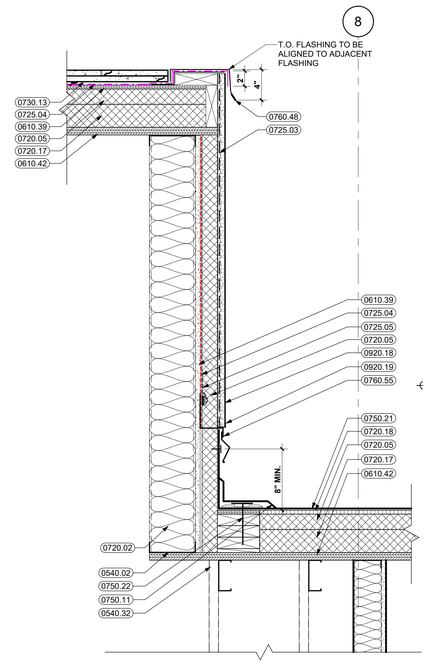
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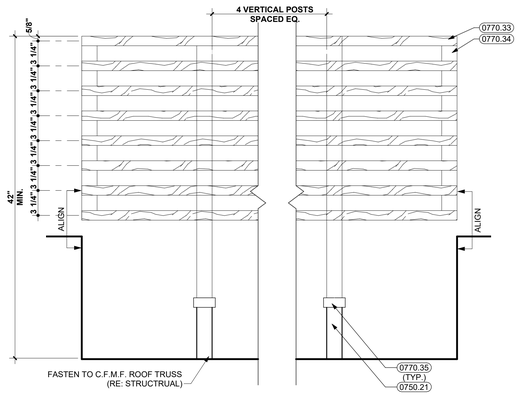
A1.2
ROOF PLAN



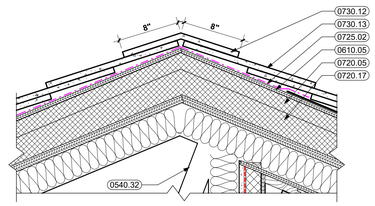
3 ROOF DETAIL
1 1/2" = 1'-0"



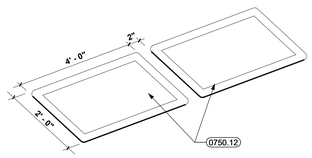
2 ROOF DETAIL
1 1/2" = 1'-0"



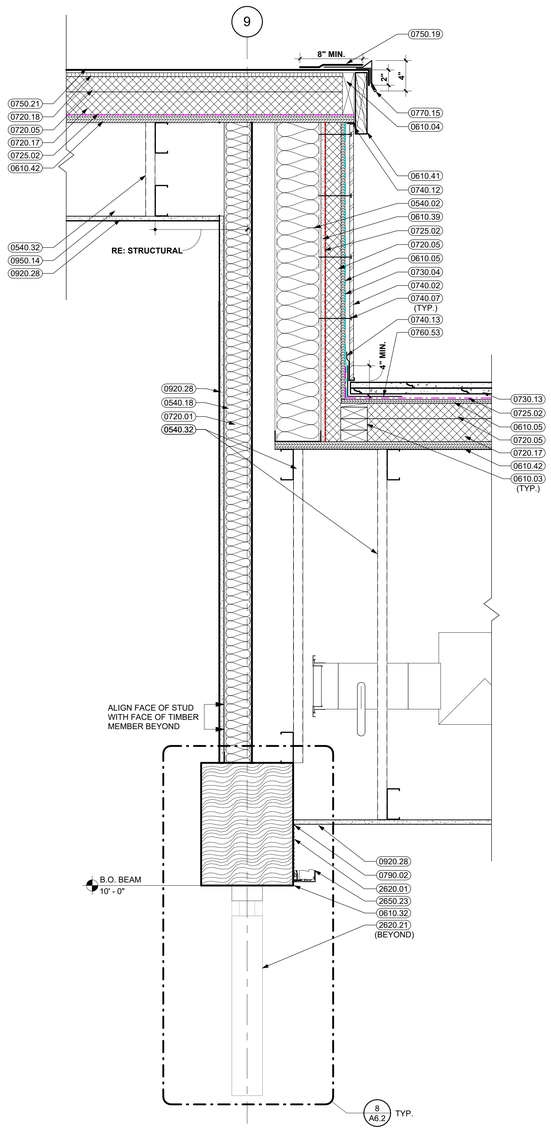
5 ROOF SCREEN ELEVATION
1 1/2" = 1'-0"



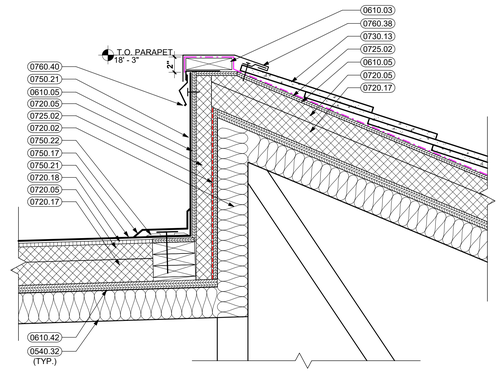
4 ROOF DETAIL
1 1/2" = 1'-0"



7 WALK PAD
1 1/2" = 1'-0"



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



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

KEYNOTES

0540.02	6" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM (RE: STRUCTURAL)
0540.18	3 5/8" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
0540.32	COLD ROLLED STEEL ROOF TRUSS (RE: STRUCTURAL)
0540.35	TRUSS CONNECTION (RE: STRUCTURAL)
0540.36	CONT. STRAP (RE: STRUCTURAL)
0610.01	SHIM AS REQUIRED
0610.03	2X WOOD BLOCKING
0610.04	2X PRESSURE TREATED WOOD BLOCKING
0610.05	1/2" EXTERIOR GRADE PLYWOOD
0610.32	HEAVY TIMBER BEAM (RE: STRUCTURAL)
0610.39	1/2" EXTERIOR GYPSUM SHEATHING
0610.41	ROUGH SAWN WOOD FASCIA, STAINED AND SEALED
0610.42	1" PLYWOOD ROOF DECK (RE: STRUCTURAL)
0720.01	3 1/2" BATT INSULATION
0720.02	6 1/4" BATT INSULATION
0720.05	2" CONTINUOUS RIGID INSULATION
0720.17	3" CONTINUOUS RIGID INSULATION
0720.18	1/2" POLYISO COVERBOARD
0725.02	SELF-ADHERING SHEET AIR BARRIER SYSTEM
0725.03	PLASTIC FILM AIR BARRIER SYSTEM
0725.04	FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
0725.05	SELF-ADHERING DETAIL TRANSITION MEMBRANE
0730.04	SELF-ADHERING, HIGH-TEMPERATURE AIR BARRIER SYSTEM
0730.12	CONCRETE TILE RIDGE CAP
0730.13	CONCRETE TILE ROOFING SYSTEM
0740.02	PREFINISHED METAL WALL PANEL SYSTEM
0740.07	CONCEALED METAL CLIP
0740.12	HEAD CHANNEL CLOSURE BY WALL PANEL MANUFACTURER
0740.13	SILL CHANNEL CLOSURE BY WALL PANEL MANUFACTURER
0750.11	HEAT-WELDED LAP
0750.12	WALKWAY PAD
0750.17	HEAT-WELDED LAP
0750.19	PVC ROOFING FLASHING MEMBRANE
0750.21	PVC ROOFING
0750.22	SEAM PLATE AND FASTENERS
0760.38	PREFINISHED METAL FLASHING ANGLE SET IN SEALANT
0760.40	TERMINATION BAR AND PREFINISHED FLASHING CAP
0760.48	PREFINISHED TWO PIECE METAL FLASHING
0760.53	GALVANIZED SHEET METAL
0760.55	PREFINISHED COUNTER FLASHING, SMACNA FIG. 4-4D WITH THROUGH-WALL
0770.15	PREFINISHED GRAVEL STOP FASCIA SYSTEM WITH CLEAT, SMACNA FIG. 2
0770.33	HYBRID WOOD ALUMINUM TUBE - "GEOLAM - SOLEO 6027" OR ARCHITECT-APPROVED EQUAL
0770.34	ARCHITECTURAL SCREEN PREFINISHED STEEL STRUCTURAL SUPPORT, COLOR TO BE SELECTED BY ARCHITECT
0770.35	SQUARE TUBE WRAP, EQUIVALENT TO GAF EVERGUARD DETAIL 527
0790.02	SEALANT
0920.18	1" PORTLAND CEMENT STUCCO ON METAL LATH
0920.19	STUCCO CASING BEAD WITH WEEPS
0920.28	5/8" GYPSUM BOARD (TYPE X)
0950.14	SUSPENSION SYSTEM TRANSITION CLIP
2620.01	CONDUIT (RE: ELECTRICAL)
2620.21	CORD REEL (RE: ELECTRICAL)
2650.23	CEILING-WASHING COVE LIGHT FIXTURE (RE: ELECTRICAL)

MOISTURE PROTECTION LEGEND

LINE	DESCRIPTION
	ROOFING SELF-ADHERED SHEET UNDERLAYMENT AIR BARRIER
	WALL HIGH-TEMPERATURE SELF-ADHERED SHEET UNDERLAYMENT AIR BARRIER
	FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
	FOUNDATION & UNDERSLAB VAPOR RETARDER SYSTEM

ISSUE FOR PROPOSALS

REGISTERED ARCHITECT ANNE HILDENBRAND 18243 STATE OF TEXAS
1/20/2026

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3535 TRAVIS STREET SUITE 150
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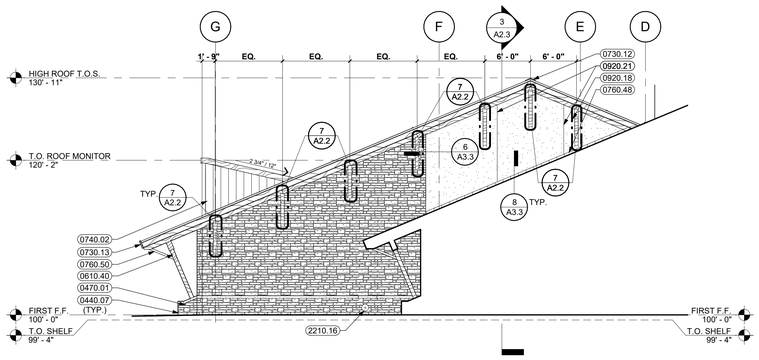
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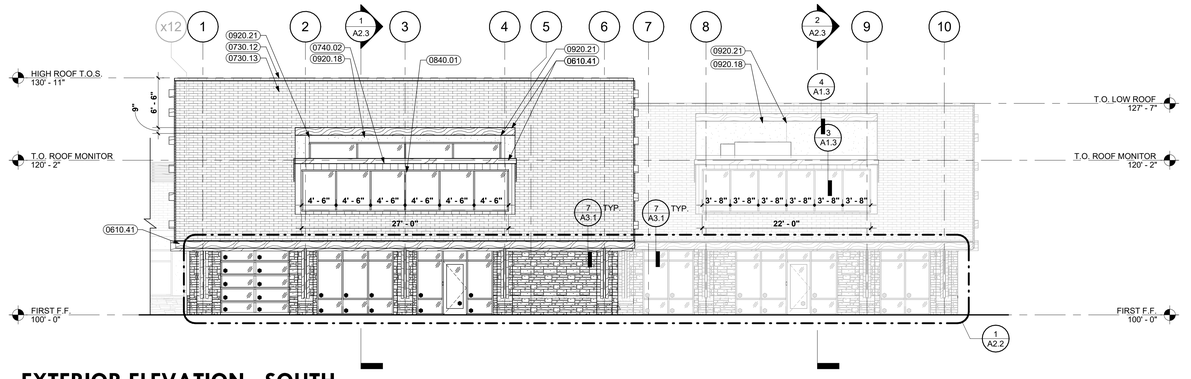
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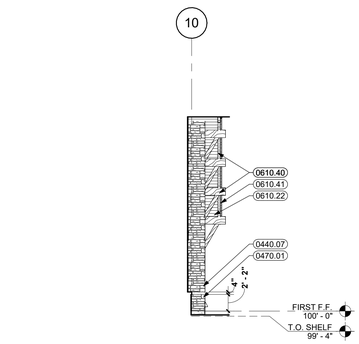
A1.3
ROOF SECTIONS & DETAILS



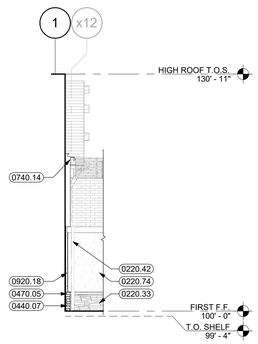
2 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



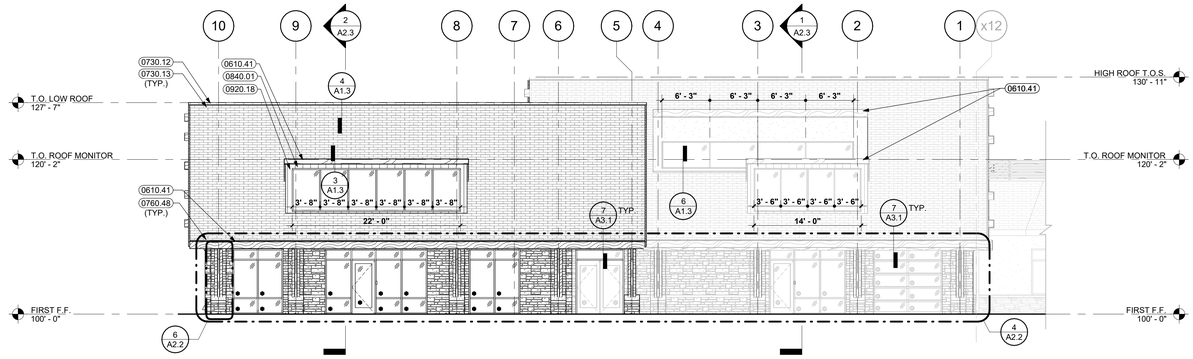
1 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



5 EXTERIOR ELEVATION - RECESS (NORTH)
1/8" = 1'-0"



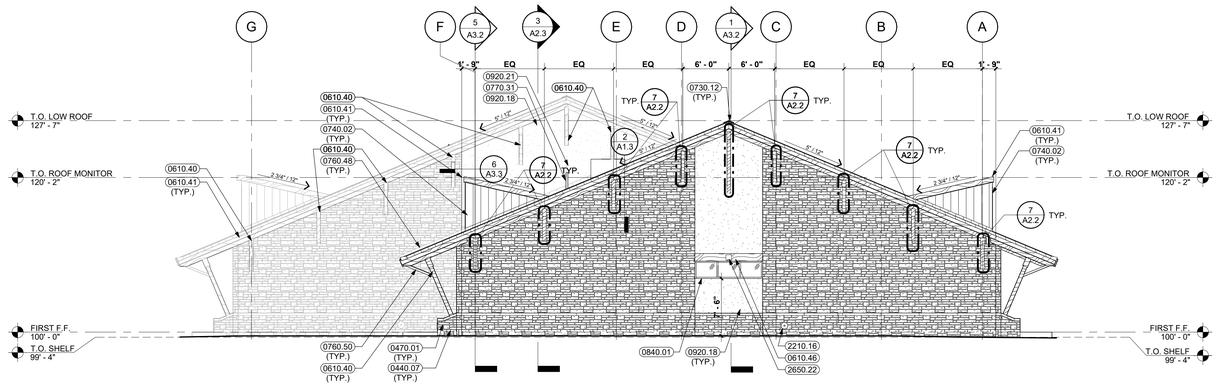
4 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"



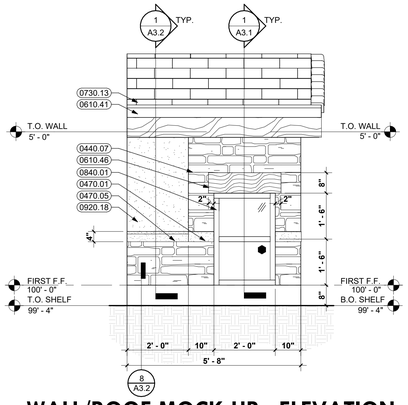
3 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"



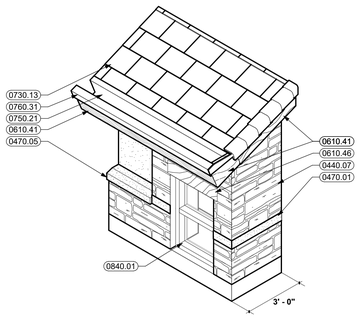
7 EXISTING STONE
1 1/2" = 1'-0"



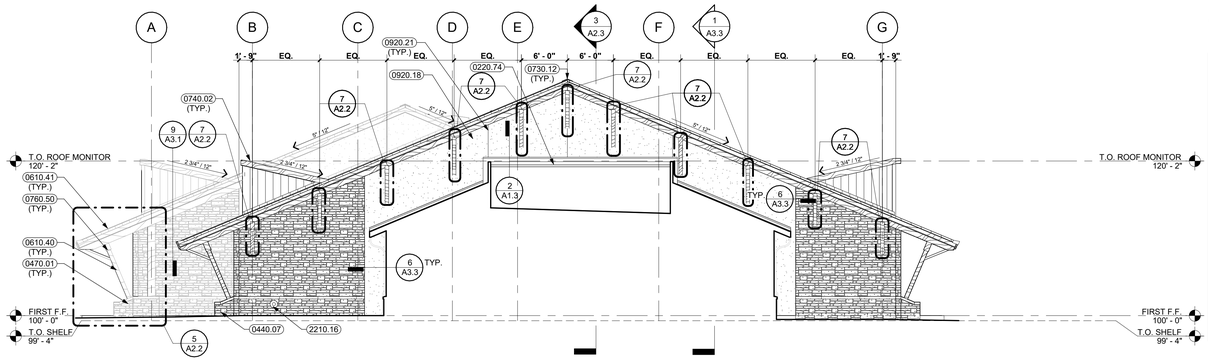
6 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



11 WALL/ROOF MOCK-UP - ELEVATION
1/2" = 1'-0"



10 WALL/ROOF MOCK-UP - AXONOMETRIC
N.T.S.



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

KEYNOTES

0220.33	EXISTING MASONRY WALL
0220.42	EXISTING DOWNSPOUT
0220.74	EXISTING STUCCO WALL
0440.07	STONE VENEER
0470.01	CAST STONE
0470.05	CAST STONE SILL WITH DRIP
0610.22	3/4" TONGUE & GROOVE PLYWOOD ROOF DECKING
0610.40	ROUGH SAWN WOOD FRAMING, STAINED AND SEALED (RE: STRUCTURAL)
0610.41	ROUGH SAWN WOOD FASCIA, STAINED AND SEALED
0610.46	ROUGH SAWN WOOD LINTEL, STAINED AND SEALED
0730.12	CONCRETE TILE RIDGE CAP
0730.13	CONCRETE TILE ROOFING SYSTEM
0740.02	PREFINISHED METAL WALL PANEL SYSTEM
0740.14	PREFINISHED METAL EXPANSION JOINT, SIM. TO SMACNA FIG. 5-6B
0750.21	PVC ROOFING
0760.31	PREFINISHED METAL COPING SYSTEM, SMACNA FIG. 3.1
0760.48	PREFINISHED TWO PIECE METAL FLASHING
0760.50	3" GALVANIZED STEEL DOWNSPOUT
0770.31	HYBRID WOOD ALUMINUM ARCHITECTURAL SCREEN
0840.01	ALUMINUM STOREFRONT
0920.18	1" PORTLAND CEMENT STUCCO ON METAL LATH
0920.21	STUCCO CONTROL JOINT
2210.16	DOWNSPOUT NOZZLE (RE: PLUMBING)
2650.22	WALL MOUNTED LIGHT FIXTURE (RE: ELECTRICAL)

MATERIAL LEGEND

PATTERN	DESCRIPTION
	STONE VENEER
	STUCCO
	METAL PANEL
	CONCRETE TILE
	ROUGH SAWN LUMBER ROUGH-SAWN WOOD STRUCTURE STAIN AND SEAL; REF. A7.1 WD4
	EXTERIOR GLAZING 1" CLEAR, LOW-E I.G.U.
	STOREFRONT FRAME COLOR: TO MATCH EXISTING

ISSUE FOR PROPOSALS

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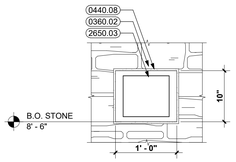
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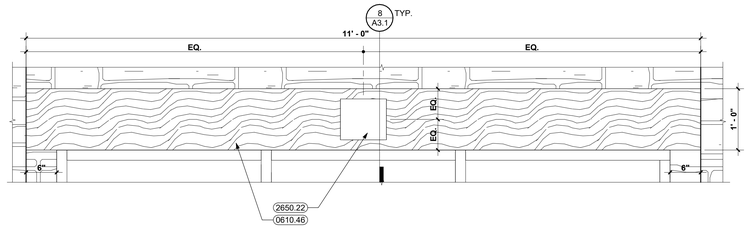
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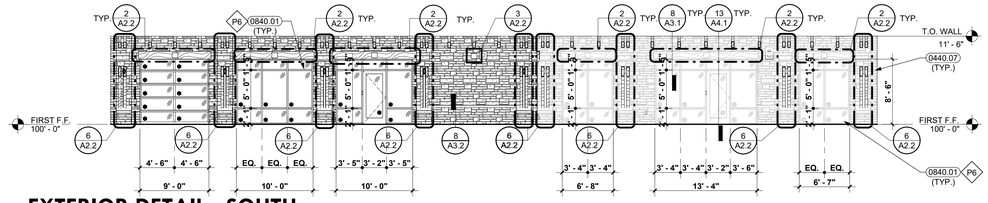
A2.1
EXTERIOR ELEVATIONS



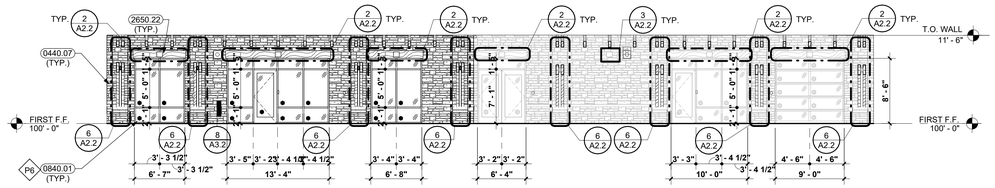
3 ELEVATION DETAIL
1" = 1'-0"



2 ELEVATION DETAIL
1" = 1'-0"



1 EXTERIOR DETAIL - SOUTH
1/8" = 1'-0"



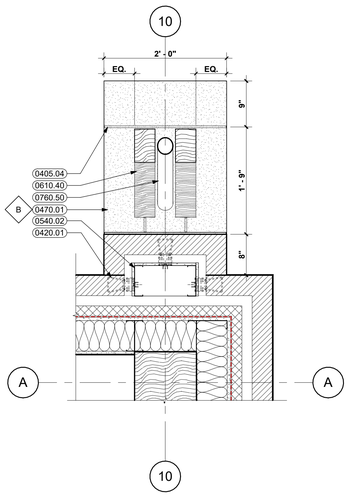
4 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"

KEYNOTES

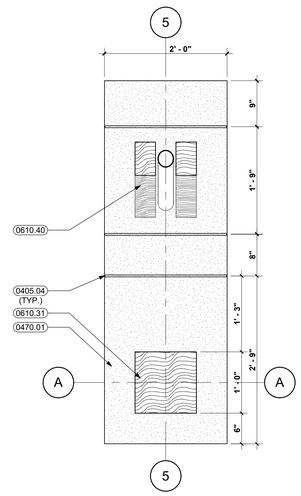
0360.02	CEMENT GROUT
0405.04	MASONRY CONTROL JOINT
0420.01	ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
0440.07	STONE VENEER
0440.08	FLAT STONE
0470.01	CAST STONE
0470.06	CAST STONE CAP - PIN BOLT CONNECTIONS
0540.02	6" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM (RE: STRUCTURAL)
0610.31	HEAVY TIMBER COLUMN (RE: STRUCTURAL)
0610.40	ROUGH SAWN WOOD FRAMING, STAINED AND SEALED (RE: STRUCTURAL)
0610.41	ROUGH SAWN WOOD FASCIA, STAINED AND SEALED
0610.46	ROUGH SAWN WOOD LINTEL, STAINED AND SEALED
0730.13	CONCRETE TILE ROOFING SYSTEM
0760.50	3" GALVANIZED STEEL DOWNSPOUT
0840.01	ALUMINUM STOREFRONT
2650.03	SURFACE-MOUNTED LIGHT FIXTURE (RE: ELECTRICAL)
2650.22	WALL MOUNTED LIGHT FIXTURE (RE: ELECTRICAL)

MOISTURE PROTECTION LEGEND

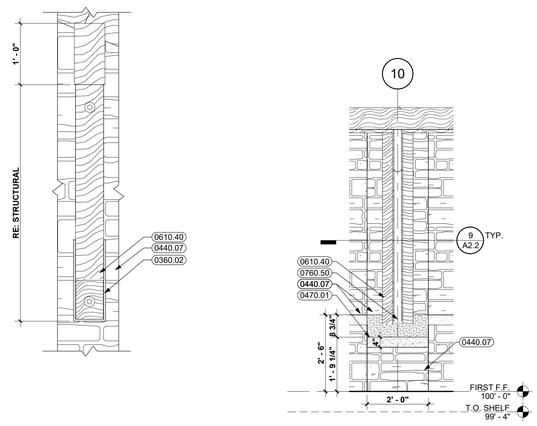
LINE	DESCRIPTION
	ROOFING SELF-ADHERED SHEET UNDERLAYMENT AIR BARRIER
	WALL HIGH-TEMPERATURE SELF-ADHERED SHEET UNDERLAYMENT AIR BARRIER
	FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
	FOUNDATION & UNDERSLAB VAPOR RETARDER SYSTEM



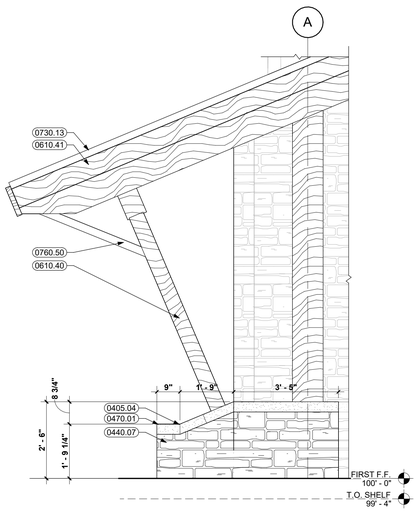
9 PLAN DETAIL
1" = 1'-0"



8 PLAN DETAIL
1" = 1'-0"

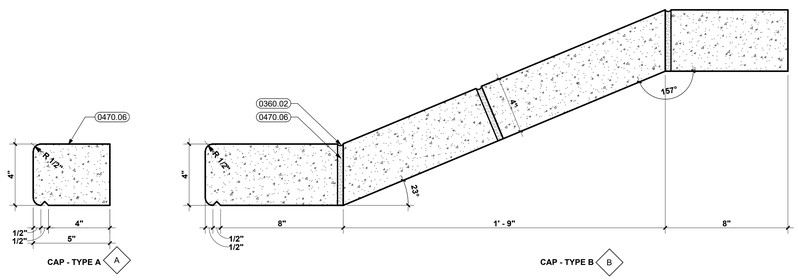


7 ELEVATION DETAIL
1" = 1'-0"



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

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



10 SECTION DETAIL - CAST STONE PROFILES
3" = 1'-0"

MATERIAL LEGEND

PATTERN	DESCRIPTION
	STONE VENEER
	STUCCO
	METAL PANEL
	CONCRETE TILE
	ROUGH SAWN LUMBER ROUGH-SAWN WOOD STRUCTURE STAIN AND SEAL, REF. A7.1 WD4
	EXTERIOR GLAZING 1" CLEAR, LOW-E I.G.U.
	STOREFRONT FRAME COLOR: TO MATCH EXISTING

ISSUE FOR PROPOSALS

REGISTERED ARCHITECT
ANNE HILDENBRAND
18243
STATE OF TEXAS
1/20/2026

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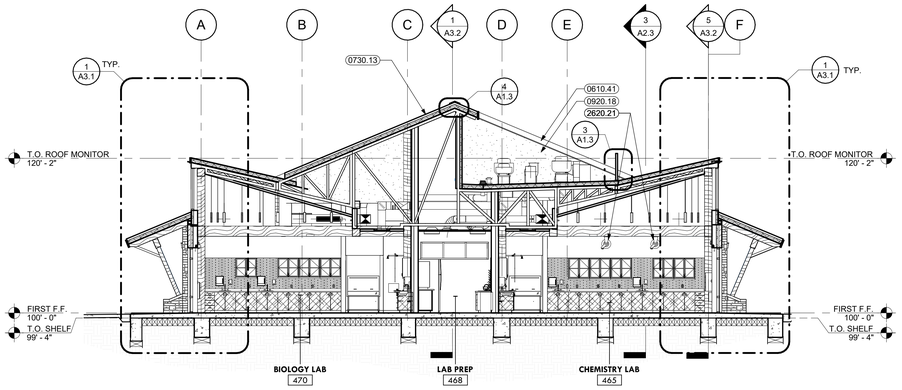
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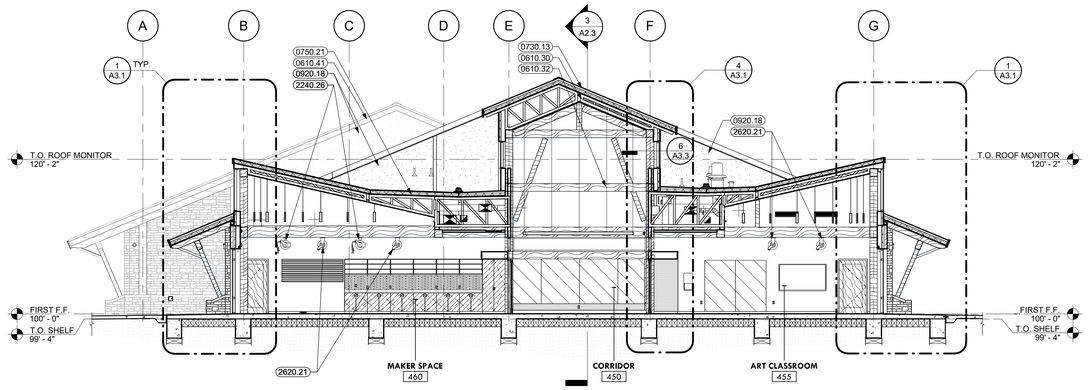
A2.2

EXTERIOR ELEVATIONS



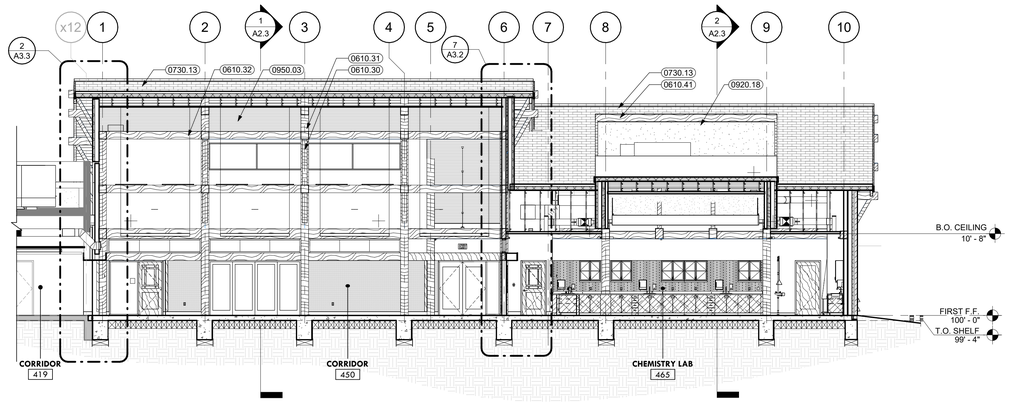
2 BUILDING SECTION

1/8" = 1'-0"



1 BUILDING SECTION

1/8" = 1'-0"



3 BUILDING SECTION

1/8" = 1'-0"

KEYNOTES

0610.30	HEAVY TIMBER WOOD TRUSS (RE: STRUCTURAL)
0610.31	HEAVY TIMBER COLUMN (RE: STRUCTURAL)
0610.32	HEAVY TIMBER BEAM (RE: STRUCTURAL)
0610.41	ROUGH SAWN WOOD FASCIA, STAINED AND SEALED
0730.13	CONCRETE TILE ROOFING SYSTEM
0750.21	PVC ROOFING
0920.18	1" PORTLAND CEMENT STUCCO ON METAL LATH
0950.03	TONGUE AND GROOVE WOOD CEILING
2240.26	HOSE REEL (RE: PLUMBING)
2620.21	CORD REEL (RE: ELECTRICAL)

MOISTURE PROTECTION LEGEND

LINE	DESCRIPTION
	ROOFING SELF-ADHERED SHEET UNDERLAYMENT AIR BARRIER
	WALL HIGH-TEMPERATURE SELF-ADHERED SHEET UNDERLAYMENT AIR BARRIER
	FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
	FOUNDATION & UNDERSLAB VAPOR RETARDER SYSTEM

ISSUE FOR PROPOSALS

REGISTERED ARCHITECT ANNE HILDENBRAND 18243 STATE OF TEXAS
1/20/2026

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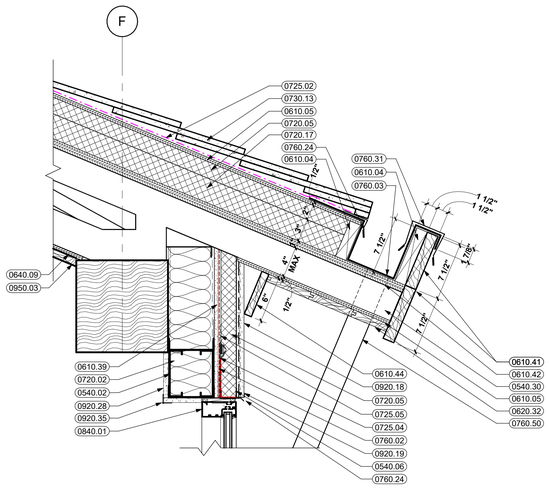
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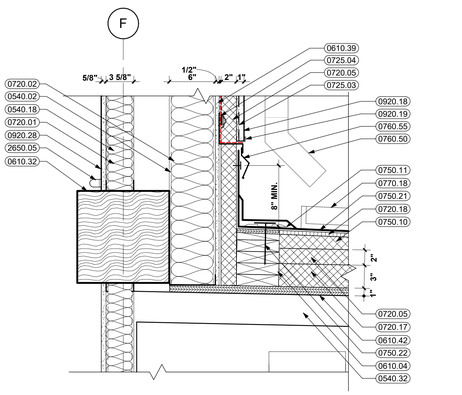
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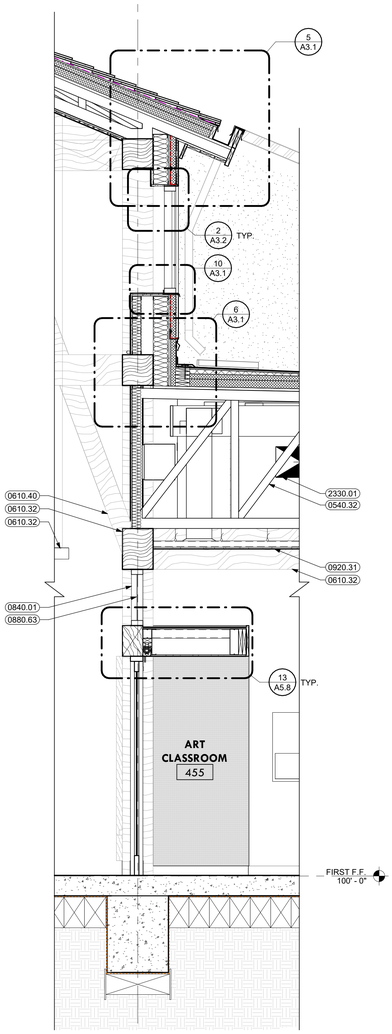
BUILDING SECTIONS



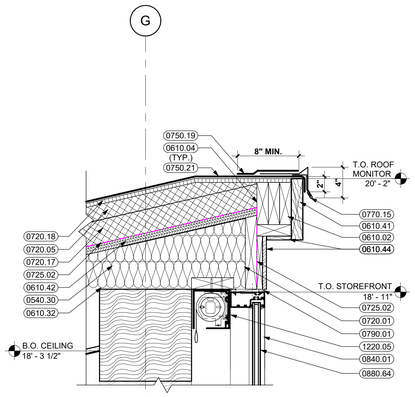
5 SECTION DETAIL
1 1/2" = 1'-0"



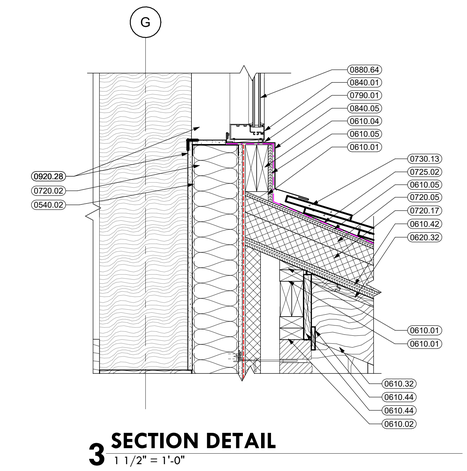
6 SECTION DETAIL
1 1/2" = 1'-0"



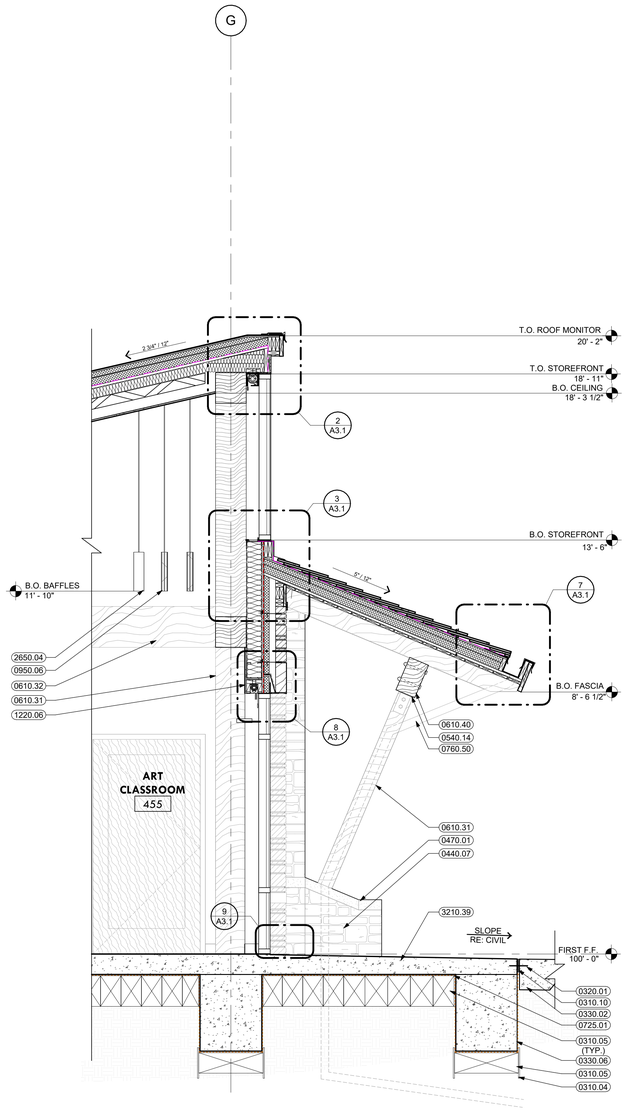
4 WALL SECTION
1/2" = 1'-0"



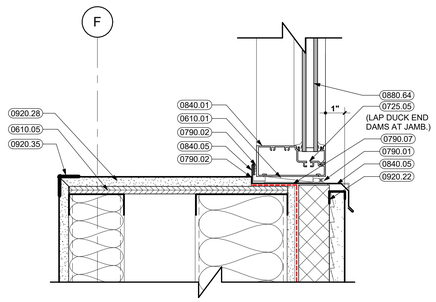
2 SECTION DETAIL
1 1/2" = 1'-0"



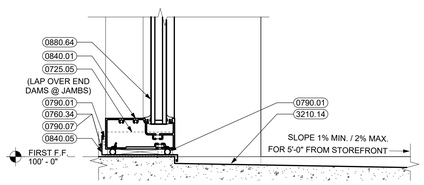
3 SECTION DETAIL
1 1/2" = 1'-0"



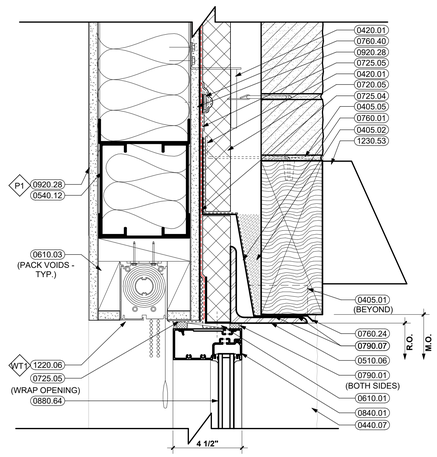
1 WALL SECTION
1/2" = 1'-0"



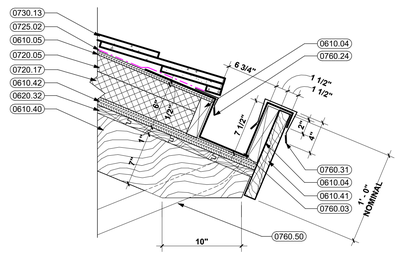
10 STOREFRONT SECTION - SILL
3" = 1'-0"



9 STOREFRONT SECTION - SILL
3" = 1'-0"



8 STOREFRONT SECTION - HEAD
3" = 1'-0"



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

KEYNOTES

0310.04	SOIL RETAINERS (RE: STRUCTURAL)
0310.05	VOID FORMS (RE: STRUCTURAL)
0310.10	CONCRETE EXPANSION JOINT, FILL WITH SEALANT TO WITHIN 1/4" OF SURFACE
0320.01	DOWEL INTO CONCRETE SLAB (RE: STRUCTURAL)
0330.02	CONCRETE SLAB (RE: STRUCTURAL)
0330.06	CONCRETE GRADE BEAM ON VOID FORMS (RE: STRUCTURAL)
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.E.W.
0440.07	STONE VENEER
0470.01	CAST STONE
0510.06	STEEL LINTEL, PAINTED TO MATCH STOREFRONT (RE: STRUCTURAL)
0540.02	6" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM (RE: STRUCTURAL)
0540.06	2" COLD-FORMED METAL FURRING CHANNEL (RE: STRUCTURAL)
0540.12	COLD-FORMED METAL HEADER (RE: STRUCTURAL)
0540.14	COLD-FORMED METAL ANGLE (RE: STRUCTURAL)
0540.18	3 5/8" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
0540.30	COLD ROLLED STEEL ROOF TRUSS TOP CHORD EXTENSION (RE: STRUCTURAL)
0540.32	COLD ROLLED STEEL ROOF TRUSS (RE: STRUCTURAL)
0610.01	SHIM AS REQUIRED
0610.02	1X WOOD BLOCKING
0610.03	2X WOOD BLOCKING
0610.04	2X PRESSURE TREATED WOOD BLOCKING
0610.05	1/2" EXTERIOR GRADE PLYWOOD
0610.31	HEAVY TIMBER COLUMN (RE: STRUCTURAL)
0610.32	HEAVY TIMBER BEAM (RE: STRUCTURAL)
0610.39	1/2" EXTERIOR GYPSUM SHEATHING
0610.40	ROUGH SAWN WOOD FRAMING, STAINED AND SEALED (RE: STRUCTURAL)
0610.41	ROUGH SAWN WOOD FASCIA, STAINED AND SEALED
0610.42	1" PLYWOOD ROOF DECK (RE: STRUCTURAL)
0610.44	ROUGH SAWN WOOD TRIM, STAINED AND SEALED
0620.32	1" TONGUE & GROOVE WOOD SOFFIT, STAINED AND SEALED TO MATCH FASCIA
0640.09	1/2" PLYWOOD
0720.01	3 1/2" BATT INSULATION
0720.02	6 1/4" BATT INSULATION
0720.05	2" CONTINUOUS RIGID INSULATION
0720.17	3" CONTINUOUS RIGID INSULATION
0720.18	1/2" POLYISO COVERBOARD
0725.01	UNDERSLAB VAPOR BARRIER
0725.02	SELF-ADHERING SHEET AIR BARRIER SYSTEM
0725.03	PLASTIC FILM AIR BARRIER SYSTEM
0725.04	FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
0725.05	SELF-ADHERING DETAIL TRANSITION MEMBRANE
0730.13	CONCRETE TILE ROOFING SYSTEM
0750.10	TAPERED ROOF INSULATION
0750.11	HEAT-WELDED LAP
0750.19	PVC ROOFING FLASHING MEMBRANE
0750.21	PVC ROOFING
0750.22	SEAM PLATE AND FASTENERS
0760.01	THROUGH-WALL FLASHING WITH WEEPS AT 2'-0" O.C. AND MORTAR NET
0760.02	THROUGH-WALL FLASHING WITH WEEPS AT 2'-0" O.C. AS REQUIRED
0760.03	PREFINISHED METAL GUTTER
0760.24	PREFINISHED METAL DRIP EDGE
0760.31	PREFINISHED METAL COPING SYSTEM, SMACNA FIG. 3.1
0760.34	PREFORMED PREFINISHED METAL FLASHING WITH ALL SEAMS WELDED WATERTIGHT
0760.40	TERMINATION BAR AND PREFINISHED FLASHING CAP
0760.50	3" GALVANIZED STEEL DOWNSPOUT
0760.55	PREFINISHED COUNTER FLASHING, SMACNA FIG. 4-4D WITH THROUGH-WALL
0770.15	PREFINISHED GRAVEL STOP FASCIA SYSTEM WITH CLEAT, SMACNA FIG. 2
0770.18	CONCRETE SPLASH BLOCK
0790.01	SEALANT WITH BACKER ROD AS REQUIRED
0790.02	SEALANT
0790.07	SET IN BED OF SEALANT
0840.01	ALUMINUM STOREFRONT
0840.05	CONTINUOUS ALUMINUM SILL PAN FLASHING WITH BACK AND END DAMS
0880.63	1/4" FLOAT GLASS
0880.64	GLASS 1" IGU
0920.18	1" PORTLAND CEMENT STUCCO ON METAL LATH
0920.19	STUCCO CASING BEAD WITH WEEPS
0920.22	STUCCO CASING BEAD
0920.28	5/8" GYPSUM BOARD (TYPE X)
0920.31	1/2" GYPSUM BOARD (TYPE X)
0920.35	CORNER BEAD, TYPICAL
0950.03	TONGUE AND GROOVE WOOD CEILING
0950.06	SUSPENDED ACOUSTICAL BAFFLE CEILING SYSTEM
1220.05	MOTORIZED WINDOW SHADE
1220.06	MANUAL WINDOW SHADE
1230.53	SCIENTIFIC-GRADE HARDWOOD VENEER BASE CABINETS
2330.01	HVAC DUCTWORK
2650.04	SUSPENDED LIGHT FIXTURE (RE: ELECTRICAL)
2650.05	RECESSED LIGHTED WALL WASHER LIGHT FIXTURE (RE: ELECTRICAL)
3210.14	CONCRETE PAVING (RE: CIVIL)
3210.39	CONCRETE PAVING, SPECIAL FINISH (RE: LANDSCAPE)

MOISTURE PROTECTION LEGEND

LINE	DESCRIPTION
	ROOFING SELF-ADHERED SHEET UNDERLAYMENT AIR BARRIER
	WALL HIGH-TEMPERATURE SELF-ADHERED SHEET UNDERLAYMENT AIR BARRIER
	FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
	FOUNDATION & UNDERSLAB VAPOR RETARDER SYSTEM

ISSUE FOR PROPOSALS

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18243
STATE OF TEXAS
1/20/2026

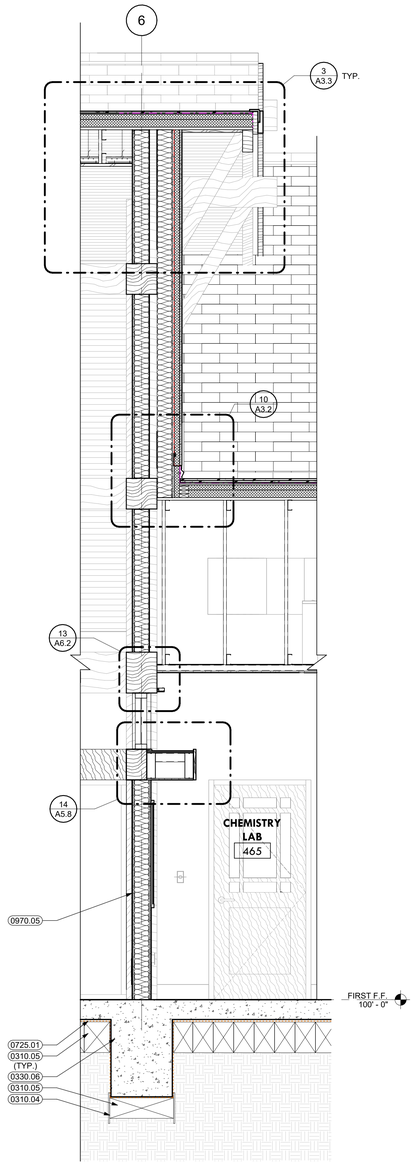
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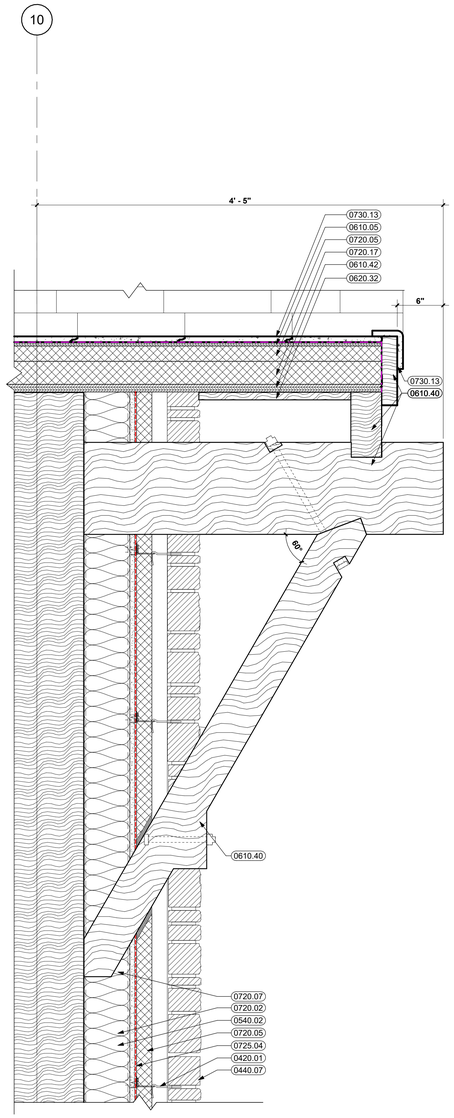
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BRW PROJECT NUMBER 225057.00

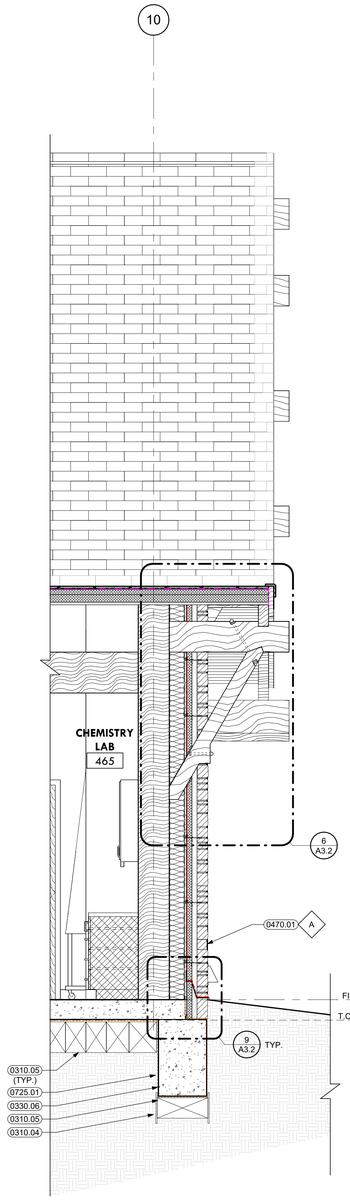
A3.1
WALL SECTIONS & DETAILS



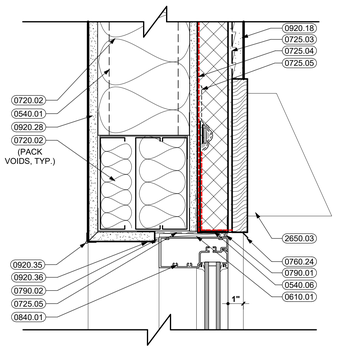
7 WALL SECTION
1/2" = 1'-0"



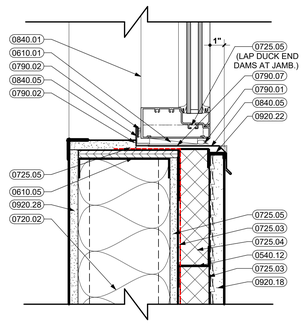
6 SECTION DETAIL
1 1/2" = 1'-0"



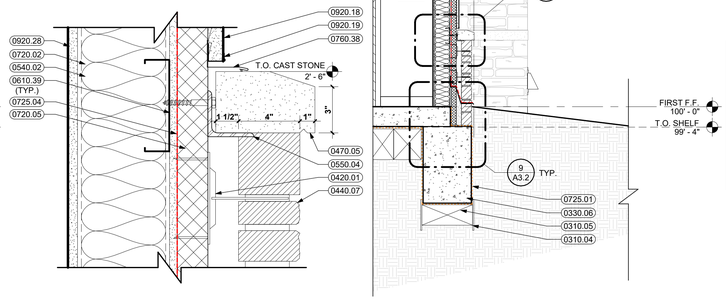
5 WALL SECTION
1/2" = 1'-0"



2 STOREFRONT HEAD DETAIL
3" = 1'-0"

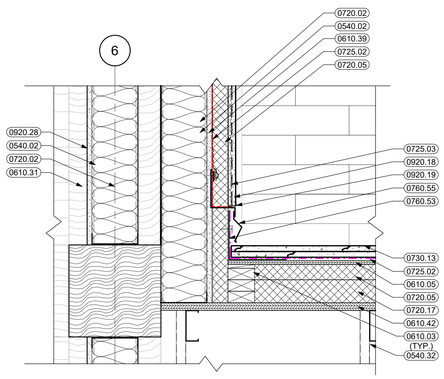


3 STOREFRONT SILL DETAIL
3" = 1'-0"

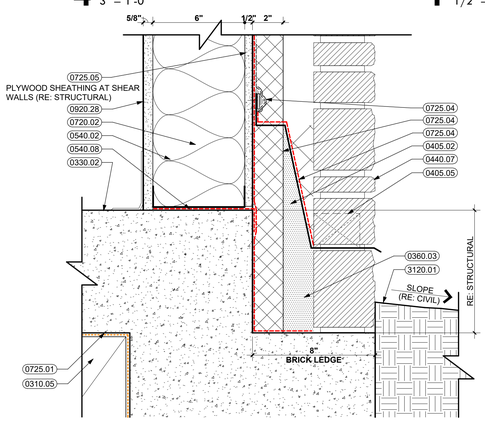


4 SECTION DETAIL
3" = 1'-0"

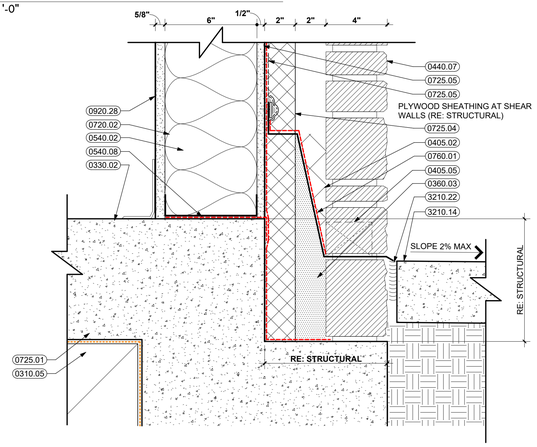
1 WALL SECTION
1/2" = 1'-0"



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



9 SECTION DETAIL
3" = 1'-0"



8 SECTION DETAIL
3" = 1'-0"

ISSUE FOR PROPOSALS

KEYNOTES

0310.04	SOIL RETAINERS (RE: STRUCTURAL)
0310.05	VOID FORMS (RE: STRUCTURAL)
0330.02	CONCRETE SLAB (RE: STRUCTURAL)
0330.06	CONCRETE GRADE BEAM ON VOID FORMS (RE: STRUCTURAL)
0360.03	FILL WITH GROUT
0405.02	MORTAR NET
0405.05	MASONRY VENEER WEEP / VENT
0420.01	ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
0440.07	STONE VENEER
0470.01	CAST STONE
0470.05	CAST STONE SILL WITH DRIP
0540.01	COLD-FORMED METAL FRAMING (RE: STRUCTURAL)
0540.02	6" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM (RE: STRUCTURAL)
0540.06	2" COLD-FORMED METAL FURRING CHANNEL (RE: STRUCTURAL)
0540.08	SILL GASKET
0540.12	COLD-FORMED METAL HEADER (RE: STRUCTURAL)
0540.32	COLD ROLLED STEEL ROOF TRUSS (RE: STRUCTURAL)
0550.04	STEEL ANGLE (RE: STRUCTURAL)
0610.01	SHIM AS REQUIRED
0610.03	2X WOOD BLOCKING
0610.05	1/2" EXTERIOR GRADE PLYWOOD
0610.31	HEAVY TIMBER COLUMN (RE: STRUCTURAL)
0610.39	1/2" EXTERIOR GYPSUM SHEATHING
0610.40	ROUGH SAWN WOOD FRAMING, STAINED AND SEALED (RE: STRUCTURAL)
0610.42	1" PLYWOOD ROOF DECK (RE: STRUCTURAL)
0620.32	1" TONGUE & GROOVE WOOD SOFFIT, STAINED AND SEALED TO MATCH FASCIA
0720.02	6 1/4" BATT INSULATION
0720.05	2" CONTINUOUS RIGID INSULATION
0720.07	FOAMED-IN-PLACE INSULATION
0720.17	3" CONTINUOUS RIGID INSULATION
0725.01	UNDERSLAB VAPOR BARRIER
0725.02	SELF-ADHERING SHEET AIR BARRIER SYSTEM
0725.03	PLASTIC FILM AIR BARRIER SYSTEM
0725.04	FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
0725.05	SELF-ADHERING DETAIL TRANSITION MEMBRANE
0730.13	CONCRETE TILE ROOFING SYSTEM
0760.01	THROUGH-WALL FLASHING WITH WEEPS AT 2'-0" O.C. AND MORTAR NET
0760.24	PREFINISHED METAL DRIP EDGE
0760.38	PREFINISHED METAL FLASHING ANGLE SET IN SEALANT
0760.53	GALVANIZED SHEET METAL
0760.55	PREFINISHED COUNTER FLASHING, SMACNA FIG. 4-4D WITH THROUGH-WALL
0790.01	SEALANT WITH BACKER ROD AS REQUIRED
0790.02	SEALANT
0790.07	SET IN BED OF SEALANT
0840.01	ALUMINUM STOREFRONT
0840.05	CONTINUOUS ALUMINUM SILL PAN FLASHING WITH BACK AND END DAMS
0920.18	1" PORTLAND CEMENT STUCCO ON METAL LATH
0920.19	STUCCO CASING BEAD WITH WEEPS
0920.22	STUCCO CASING BEAD
0920.28	5/8" GYPSUM BOARD (TYPE X)
0920.35	CORNER BEAD, TYPICAL
0920.36	J-MOULD, TYPICAL
0970.05	MAGNETIC MARKABLE WALL COVERING
2650.03	SURFACE-MOUNTED LIGHT FIXTURE (RE: ELECTRICAL)
3120.01	GRADE
3210.14	CONCRETE PAVING (RE: CIVIL)
3210.22	PAVING EXPANSION JOINT - FILL WITH JOINT SEALER 1/4" BELOW SURFACE

MOISTURE PROTECTION LEGEND

LINE	DESCRIPTION
	ROOFING SELF-ADHERED SHEET UNDERLAYMENT AIR BARRIER
	WALL HIGH-TEMPERATURE SELF-ADHERED SHEET UNDERLAYMENT AIR BARRIER
	FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
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REGISTERED ARCHITECT ANNE HILDEBRAND 18243 STATE OF TEXAS
1/20/2026

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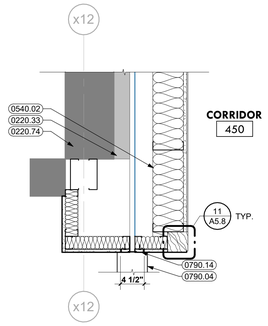
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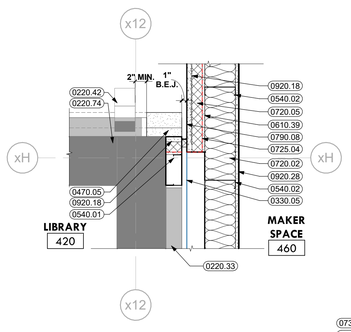
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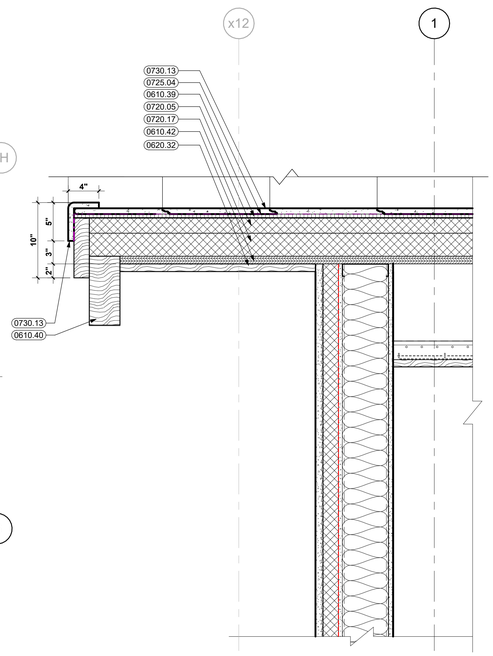
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WALL SECTIONS & DETAILS



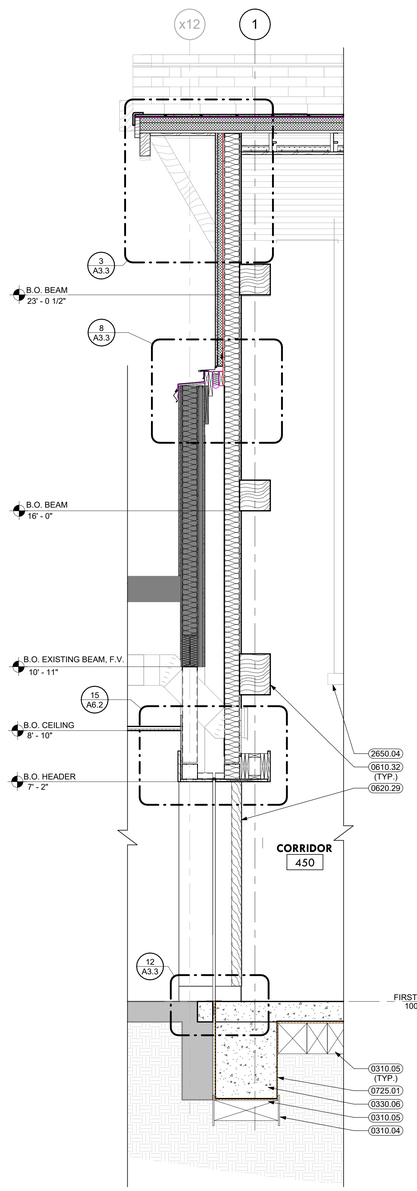
5 PLAN DETAIL
1" = 1'-0"



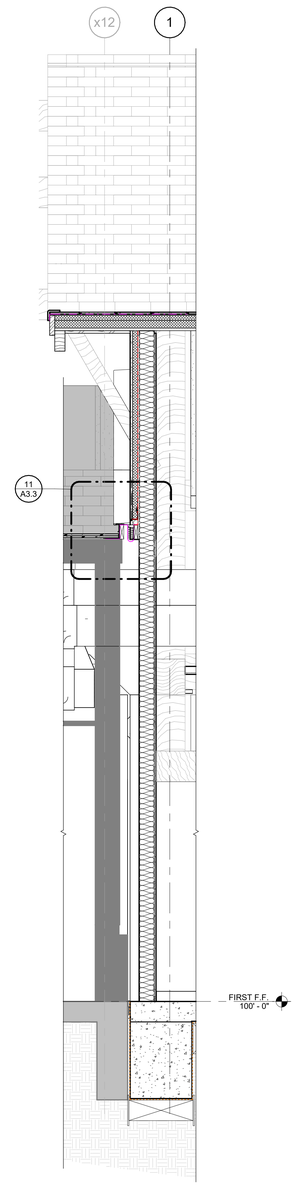
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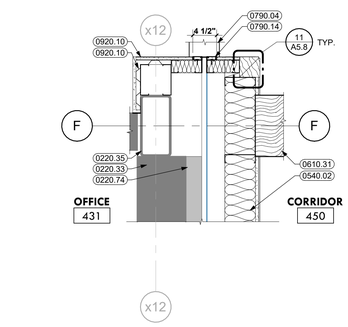
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1 1/2" = 1'-0"



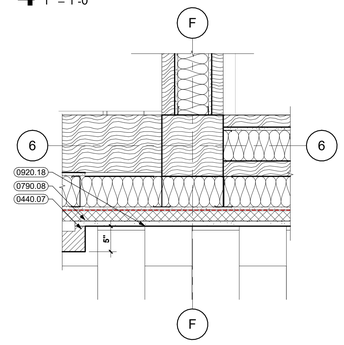
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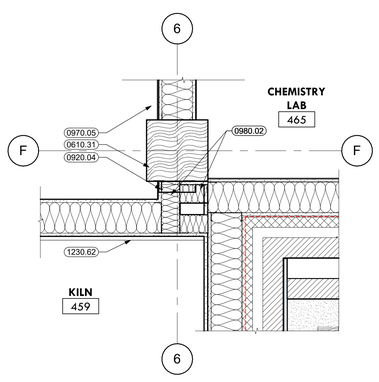
1 WALL SECTION
1/2" = 1'-0"



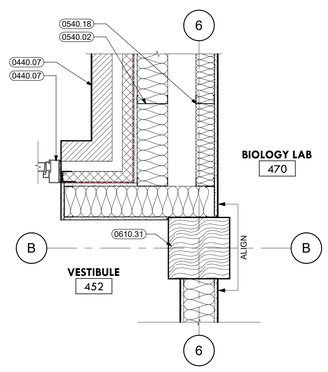
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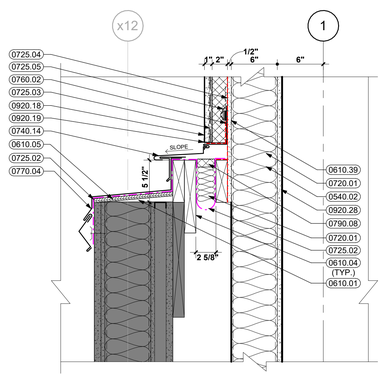
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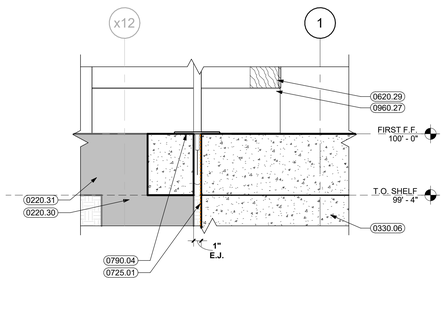
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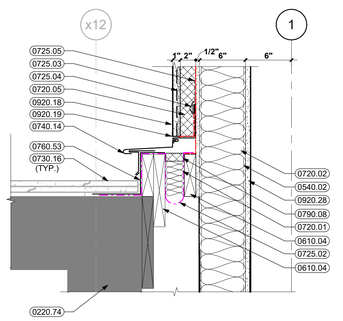
9 PLAN DETAIL
1" = 1'-0"



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



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



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

KEYNOTES

0220.30	EXISTING CONCRETE GRADE BEAM
0220.31	EXISTING CONCRETE SLAB
0220.33	EXISTING MASONRY WALL
0220.35	EXISTING HSS 12X6X3/8 STEEL COLUMN TO REMAIN, F.V.
0220.42	EXISTING DOWNSPOUT
0220.74	EXISTING STUCCO WALL
0310.04	SOIL RETAINERS (RE: STRUCTURAL)
0310.05	VOID FORMS (RE: STRUCTURAL)
0330.05	CONCRETE GRADE BEAM
0330.06	CONCRETE GRADE BEAM ON VOID FORMS (RE: STRUCTURAL)
0440.07	STONE VENEER
0470.05	CAST STONE SILL WITH DRIP
0540.01	COLD-FORMED METAL FRAMING (RE: STRUCTURAL)
0540.02	6" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM (RE: STRUCTURAL)
0540.18	3 5/8" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
0610.01	SHIM AS REQUIRED
0610.04	2X PRESSURE TREATED WOOD BLOCKING
0610.05	1/2" EXTERIOR GRADE PLYWOOD
0610.31	HEAVY TIMBER COLUMN (RE: STRUCTURAL)
0610.32	HEAVY TIMBER BEAM (RE: STRUCTURAL)
0610.39	1/2" EXTERIOR GYPSUM SHEATHING
0610.40	ROUGH SAWN WOOD FRAMING, STAINED AND SEALED (RE: STRUCTURAL)
0610.42	1" PLYWOOD ROOF DECK (RE: STRUCTURAL)
0620.29	HARDWOOD CORNER GUARD (RE: PLAN DETAIL)
0620.32	1" TONGUE & GROOVE WOOD SOFFIT, STAINED AND SEALED TO MATCH FASCIA
0720.01	3 1/2" BATT INSULATION
0720.02	6 1/4" BATT INSULATION
0720.05	2" CONTINUOUS RIGID INSULATION
0720.17	3" CONTINUOUS RIGID INSULATION
0725.01	UNDERSLAB VAPOR BARRIER
0725.02	SELF-ADHERING SHEET AIR BARRIER SYSTEM
0725.03	PLASTIC FILM AIR BARRIER SYSTEM
0725.04	FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
0725.05	SELF-ADHERING DETAIL TRANSITION MEMBRANE
0730.13	CONCRETE TILE ROOFING SYSTEM
0730.16	REMOVE AND REINSTALL CONCRETE TILE ROOFING AS REQUIRED
0740.14	PREFINISHED METAL EXPANSION JOINT, SIM. TO SMACNA FIG. 5-6B
0760.02	THROUGH-WALL FLASHING (WITH WEEPS AT 2'-0" O.C. AS REQUIRED)
0760.53	GALVANIZED SHEET METAL
0770.04	PREFINISHED METAL REGLET WITH SEALANT AND COUNTERFLASHING
0790.04	METAL FLOOR EXPANSION JOINT COVER - "CONSTRUCTION SPECIALTIES PC2G-100" OR ARCHITECT-APPROVED EQUAL
0790.08	PRE-FORMED COMPRESSIBLE SELF-EXPANDING SEALANT
0790.14	METAL WALL EXPANSION JOINT COVER - "CONSTRUCTION SPECIALTIES AFW" OR ARCHITECT-APPROVED EQUAL
0920.04	3-5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C. MAXIMUM
0920.10	7/8" FURRING CHANNELS AT 16" O.C.
0920.18	1" PORTLAND CEMENT STUCCO ON METAL LATH
0920.19	STUCCO CASING BEAD WITH WEEPS
0920.28	5/8" GYPSUM BOARD (TYPE X)
0960.27	6" RESILIENT BASE
0970.05	MAGNETIC MARKABLE WALL COVERING
0980.02	3 1/2" MINERAL WOOL SOUND ATTENUATION BATT INSULATION
1230.62	CHEMICAL RESISTANT EPOXY RESIN COUNTERTOP
2650.04	SUSPENDED LIGHT FIXTURE (RE: ELECTRICAL)

MOISTURE PROTECTION LEGEND

LINE	DESCRIPTION
	ROOFING SELF-ADHERED SHEET UNDERLAYMENT AIR BARRIER
	WALL HIGH-TEMPERATURE SELF-ADHERED SHEET UNDERLAYMENT AIR BARRIER
	FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
	FOUNDATION & UNDERSLAB VAPOR RETARDER SYSTEM

ISSUE FOR PROPOSALS

REGISTERED ARCHITECT
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STATE OF TEXAS
1/20/2026

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BRW PROJECT NUMBER	2235057.00

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ARTS & SCIENCES ADDITION
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WESTLAKE, TX 76262

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A3.3

WALL SECTIONS & PLAN DETAILS

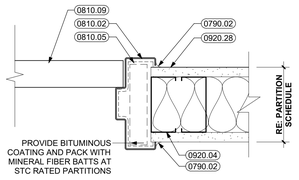
DOOR SCHEDULE

FROM	TO	DOOR NO.	DESCRIPTION	SIZE	DOOR MTL.	DOOR TYPE	FRAME MTL.	FRAME TYPE	DETAIL REFERENCE HEAD	DETAIL REFERENCE JAMB	DETAIL REFERENCE SILL	DOOR NO.	HDWR. SET	CARD READER	FIRE RATING	REMARKS
EXTERIOR	VESTIBULE	452A	PAIR OF 3'-0" DOORS	6' - 0" X 7' - 0" X 1 3/4"	AL	FG	AL	1	13/A4.1	-	13/A4.1	452A	714A	Yes	-	
VESTIBULE	CORRIDOR	452B	PAIR OF 3'-0" DOORS	6' - 0" X 7' - 0" X 1 3/4"	AL	FG	AL	1	13/A4.1	-	13/A4.1	452B	800AV		-	
CORRIDOR	ART CLASSROOM	455A	SINGLE	3' - 0" X 7' - 0" X 1 3/4"	WD	G	HM	2	3/A4.1	4/A4.1	-	455A	701		-	
CORRIDOR	ART CLASSROOM	455B	FOLDING DOORS	12' - 0" X 7' - 2" X 2 3/4"	AL	F	AL	1	6/A4.1	10/A4.1	6/A4.1	505B	004		-	
EXTERIOR	ART CLASSROOM	455C	OVERHEAD SECTIONAL	9' - 0" X 8' - 6" X 2"	AL	S	AL	1	8/A4.1	7/A4.1	11/A4.1	455C	001		-	
EXTERIOR	ART CLASSROOM	455D	SINGLE	3' - 0" X 7' - 0" X 1 3/4"	AL	FG	AL	1	13/A4.1	-	13/A4.1	455D	C715A	Yes	-	
ART CLASSROOM	ART STORAGE	457	SINGLE	3' - 6" X 7' - 0" X 1 3/4"	WD	A	HM	1	3/A4.1	4/A4.1	-	457	203S		-	
ART STORAGE	KILN	459	SINGLE	3' - 6" X 7' - 0" X 1 3/4"	WD	A	HM	1	3/A4.1	4/A4.1	-	459	203S		45 MIN.	UNDERCUT BY 1"
CORRIDOR	MAKER SPACE	460A	SINGLE	3' - 0" X 7' - 0" X 1 3/4"	WD	G	HM	2	3/A4.1	4/A4.1	-	460A	701		-	
CORRIDOR	MAKER SPACE	460B	FOLDING DOORS	12' - 0" X 7' - 2" X 2 3/4"	AL	F	AL	1	6/A4.1	10/A4.1	6/A4.1	460B	004		-	
EXTERIOR	MAKER SPACE	460C	OVERHEAD SECTIONAL	9' - 0" X 8' - 6" X 2"	AL	S	AL	1	8/A4.1	7/A4.1	11/A4.1	460C	001		-	
EXTERIOR	MAKER SPACE	460D	SINGLE	3' - 0" X 7' - 0" X 1 3/4"	AL	FG	AL	1	13/A4.1	-	13/A4.1	460D	C715A	Yes	-	
CORRIDOR	ELECTRICAL	462	SINGLE	3' - 0" X 7' - 0" X 1 3/4"	WD	A	HM	1	3/A4.1	4/A4.1	-	462	201		-	
CORRIDOR	GENERAL STORAGE	464A	SINGLE	3' - 6" X 7' - 0" X 1 3/4"	WD	A	HM	1	3/A4.1	4/A4.1	-	464A	207W		-	UNDERCUT BY 1"
MAKER SPACE	GENERAL STORAGE	464B	SINGLE	3' - 0" X 7' - 0" X 1 3/4"	WD	A	HM	1	3/A4.1	4/A4.1	-	464B	201		-	
CORRIDOR	CHEMISTRY LAB	465A	SINGLE	3' - 0" X 7' - 0" X 1 3/4"	WD	G	HM	1	3/A4.1	4/A4.1	-	465A	701W		-	
EXTERIOR	CHEMISTRY LAB	465B	SINGLE	3' - 0" X 7' - 0" X 1 3/4"	AL	FG	AL	1	13/A4.1	-	13/A4.1	465B	C715A	Yes	-	
CORRIDOR	RR	466	SINGLE	3' - 0" X 7' - 0" X 1 3/4"	WD	A	HM	1	3/A4.1	4/A4.1	-	466	341		-	
CHEMISTRY LAB	LAB PREP	468A	SINGLE	3' - 0" X 7' - 0" X 1 3/4"	WD	A	HM	1	3/A4.1	4/A4.1	-	468A	203S		-	UNDERCUT BY 1"
BIOLOGY LAB	LAB PREP	468B	SINGLE	3' - 0" X 7' - 0" X 1 3/4"	WD	A	HM	1	3/A4.1	4/A4.1	-	468B	203S		-	UNDERCUT BY 1"
CORRIDOR	BIOLOGY LAB	470A	SINGLE	3' - 0" X 7' - 0" X 1 3/4"	WD	G	HM	1	3/A4.1	4/A4.1	-	470A	701W		-	
EXTERIOR	BIOLOGY LAB	470B	SINGLE	3' - 0" X 7' - 0" X 1 3/4"	AL	FG	AL	1	13/A4.1	-	13/A4.1	470B	C715A	Yes	-	

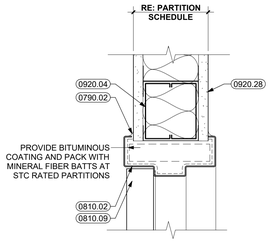
KEYNOTES

0320.01	DOWEL INTO CONCRETE SLAB (RE: STRUCTURAL)
0330.02	CONCRETE SLAB (RE: STRUCTURAL)
0420.01	ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
0440.07	STONE VENEER
0510.04	STEEL ANGLE (RE: STRUCTURAL)
0540.02	6" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM (RE: STRUCTURAL)
0540.06	2" COLD-FORMED METAL FURRING CHANNEL (RE: STRUCTURAL)
0540.12	COLD-FORMED METAL HEADER (RE: STRUCTURAL)
0550.12	STEEL BASE PLATE (RE: STRUCTURAL)
0610.01	SHIM AS REQUIRED
0610.31	HEAVY TIMBER COLUMN (RE: STRUCTURAL)
0610.32	HEAVY TIMBER BEAM (RE: STRUCTURAL)
0610.39	1/2" EXTERIOR GYPSUM SHEATHING
0610.46	ROUGH SAWN WOOD LINTEL, STAINED AND SEALED
0720.02	6 1/4" BATT INSULATION
0720.05	2" CONTINUOUS RIGID INSULATION
0725.03	PLASTIC FILM AIR BARRIER SYSTEM
0725.04	FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
0725.05	SELF-ADHERING DETAIL TRANSITION MEMBRANE
0790.01	SEALANT WITH BACKER ROD AS REQUIRED
0790.02	SEALANT
0810.02	HOLLOW METAL FRAME
0810.05	JAMB ANCHOR (3 PER JAMB)
0810.09	STILE AND RAIL PANELED WOOD DOOR
0830.17	UPWARD INSULATED ACTING SECTIONAL DOOR
0830.18	DOOR TRACK
0840.01	ALUMINUM STOREFRONT
0840.02	ALUMINUM STOREFRONT DOOR
0840.05	CONTINUOUS ALUMINUM SILL PAN FLASHING WITH BACK AND END DAMS
0840.34	FOLDING ALUMINUM GLASS DOORS
0870.01	METAL THRESHOLD. SET IN BED OF SEALANT
0870.10	DOOR BOTTOM WITH DRIP SKIRT
0880.63	1/4" FLOAT GLASS
0880.64	GLASS 1" IGU
0920.04	3-5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C. MAXIMUM
0920.18	1" PORTLAND CEMENT STUCCO ON METAL LATH
0920.28	5/8" GYPSUM BOARD (TYPE X)
0920.32	(2) LAYERS OF 1/2" GYPSUM BOARD
0920.35	CORNER BEAD, TYPICAL
0920.36	J-MOULD, TYPICAL
0960.01	FLOORING AS SCHEDULED
0980.02	3 1/2" MINERAL WOOL SOUND ATTENUATION BATT INSULATION

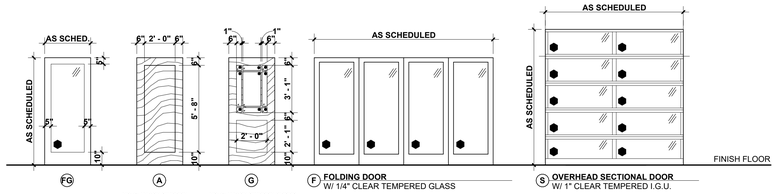
4 JAMB - INTERIOR DOOR
3" = 1'-0"



3 HEAD - INTERIOR DOOR
3" = 1'-0"



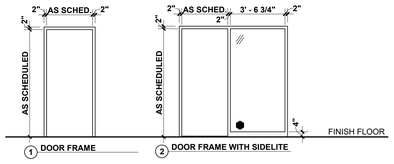
2 DOOR TYPES
N.T.S.

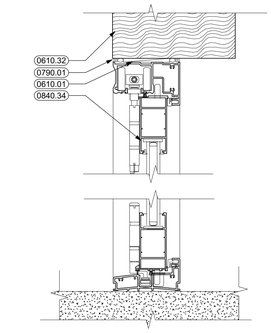


NOTE: MATCH SIMPSON DOORS 20 INTERIOR PANEL.

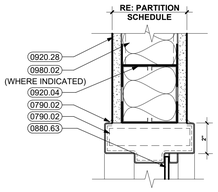
NOTE: MATCH SIMPSON DOORS 981 TRADITIONAL SASH. APPLY PLASTIC FILM ON ALL PANES.

1 FRAME TYPES
N.T.S.

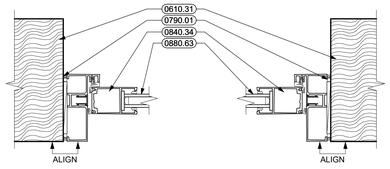


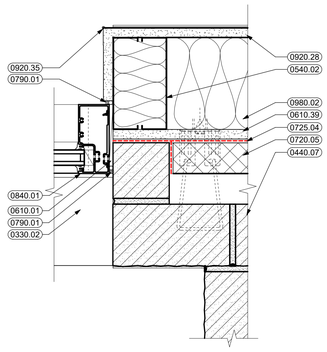


5 HEAD - HM SIDELITE
3" = 1'-0"



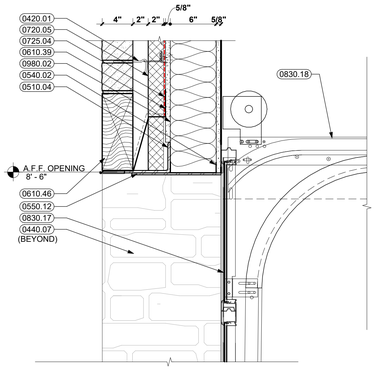
6 SILL AND HEAD - FOLDING DOOR
3" = 1'-0"



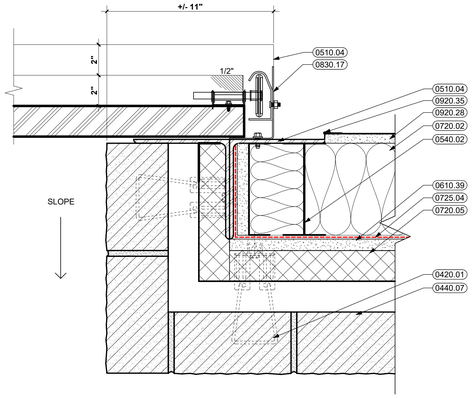


10 JAMB - FOLDING DOOR
3" = 1'-0"

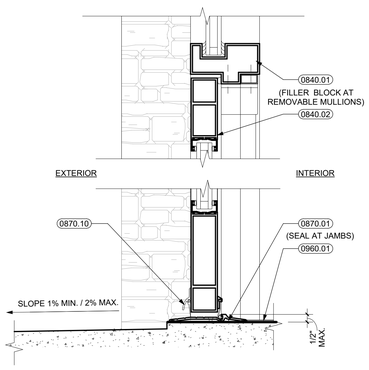
9 JAMB - STOREFRONT
3" = 1'-0"



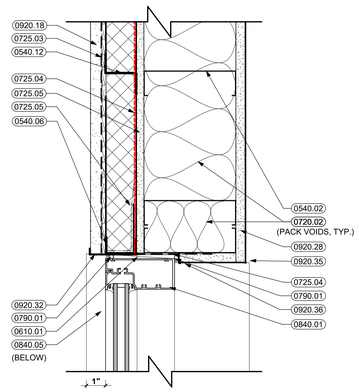
8 HEAD - SECTIONAL DOOR
1 1/2" = 1'-0"



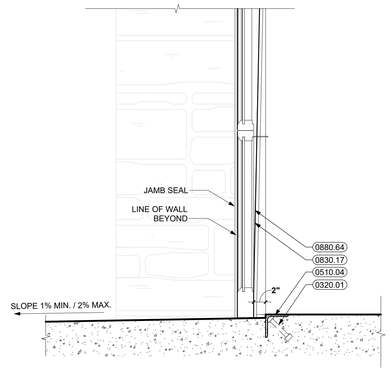
7 JAMB - SECTIONAL DOOR
3" = 1'-0"



13 SILL AND HEAD - STOREFRONT DOOR
3" = 1'-0"



12 STOREFRONT JAMB DETAIL
3" = 1'-0"



11 SILL - SECTIONAL DOOR
1 1/2" = 1'-0"

MOISTURE PROTECTION LEGEND

LINE	DESCRIPTION
	ROOFING SELF-ADHERED SHEET UNDERLAYMENT AIR BARRIER
	WALL HIGH-TEMPERATURE SELF-ADHERED SHEET UNDERLAYMENT AIR BARRIER
	FLUID-APPLIED MEMBRANE AIR BARRIER SYSTEM
	FOUNDATION & UNDERSLAB VAPOR RETARDER SYSTEM

ISSUE FOR PROPOSALS

REGISTERED ARCHITECT
ANNE HILDEBRAND
18243
STATE OF TEXAS
1/20/2026

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SUITE 250
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BRWARCH.COM

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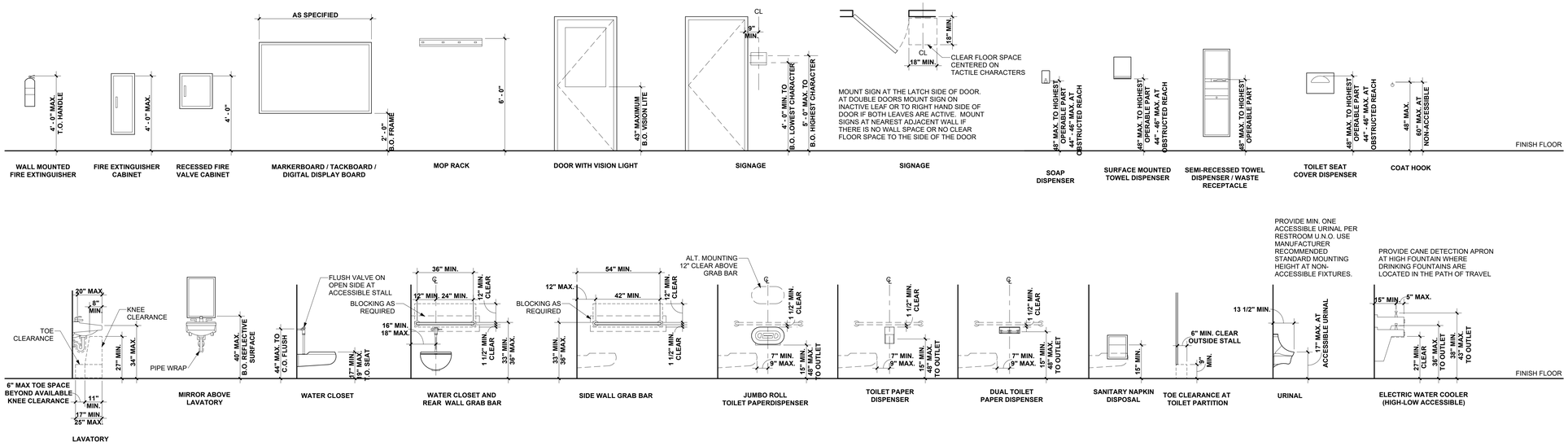
DATE JANUARY 20, 2026
DRAWN BY MCR, JCP
CHECKED BY RVH, AIH
BRW PROJECT NUMBER 225057.00

WESTLAKE ACADEMY
ARTS & SCIENCES ADDITION
2600 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

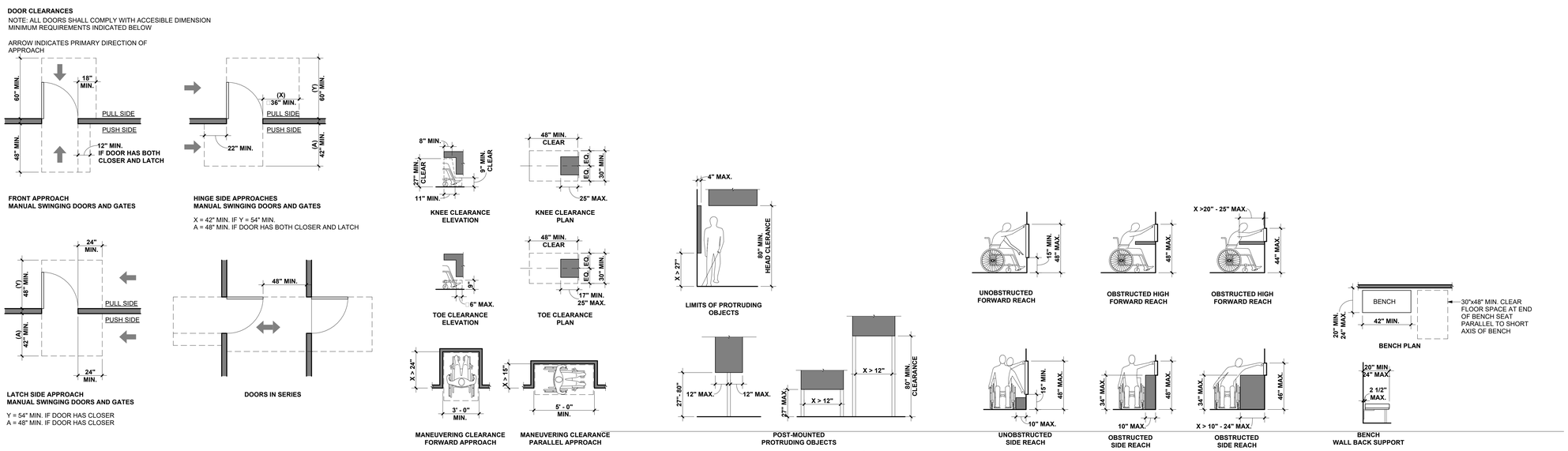
A4.1

DOOR SCHEDULE AND DETAILS



1 TYPICAL ACCESSIBLE MOUNTING HEIGHTS

N.T.S.



2 TYPICAL ACCESSIBILTY REQUIREMENTS

N.T.S.

NOTE: NOT ALL CONDITIONS ABOVE MAY BE REQUIRED IN THE PROJECT

ISSUE FOR PROPOSALS

REGISTERED ARCHITECT ANNE HILDEBRAND 18243 STATE OF TEXAS
1/20/2026

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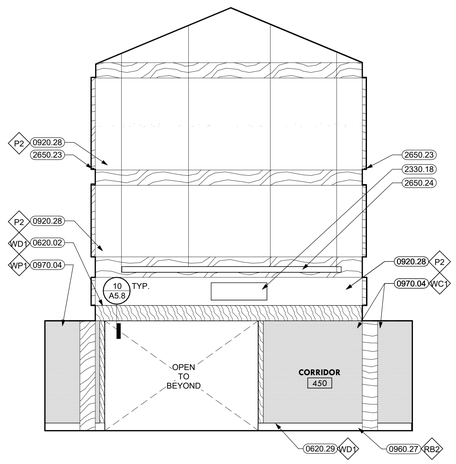
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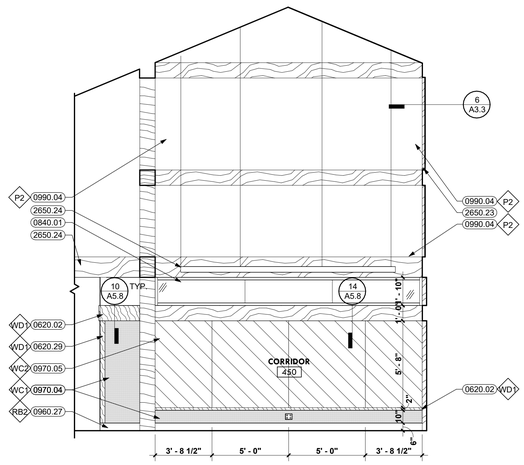
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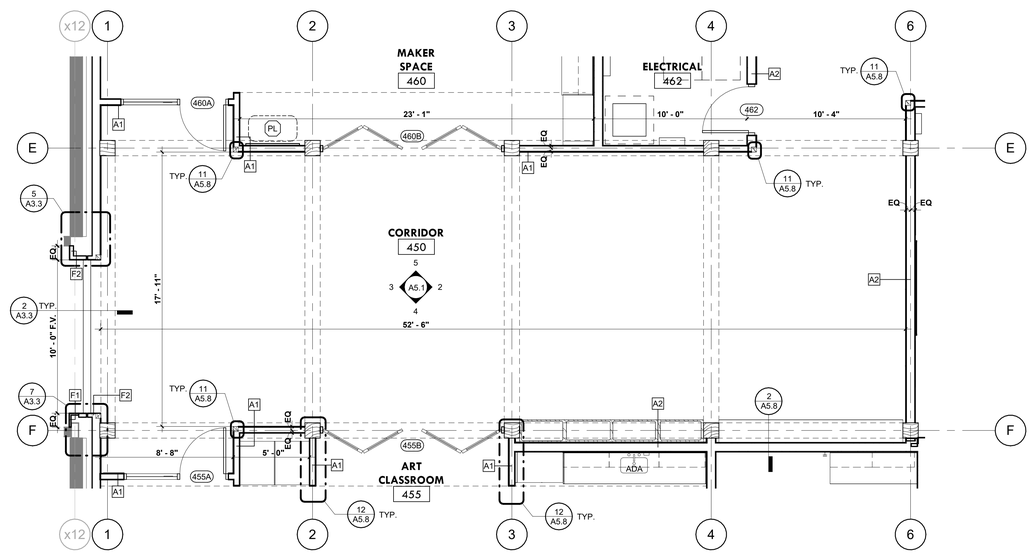
NO.	REVISION	DATE

A5.0

TYPICAL ACCESSIBILITY DETAILS





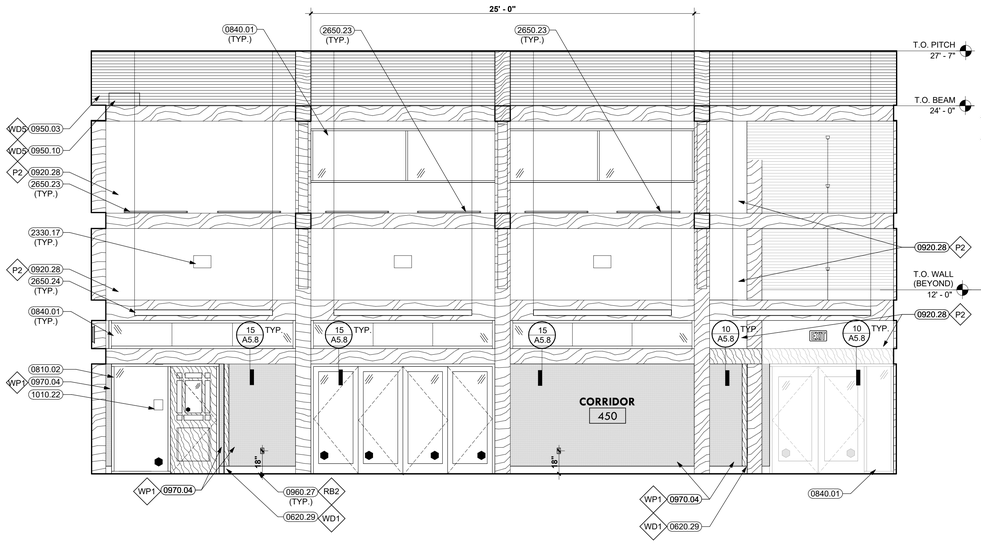


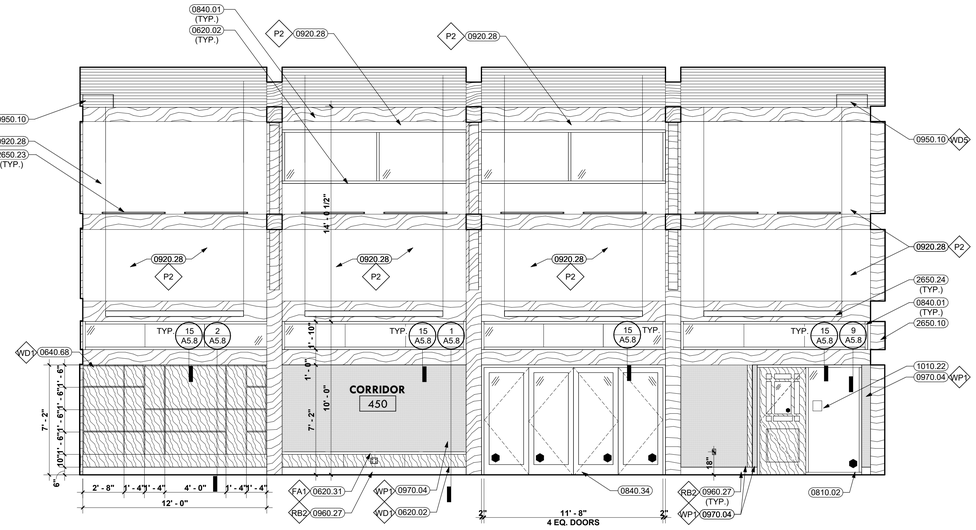
3 INTERIOR ELEVATION
1/4" = 1'-0"

2 INTERIOR ELEVATION
1/4" = 1'-0"

PLAN NORTH / TRUE NORTH

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





5 INTERIOR ELEVATION
1/4" = 1'-0"

4 INTERIOR ELEVATION
1/4" = 1'-0"

KEYNOTES

0620.02	1X HARDWOOD TRIM
0620.29	HARDWOOD CORNER GUARD (RE: PLAN DETAIL)
0620.31	FULLY UPHOLSTERED HIGH-DENSITY FOAM BENCH CUSION WITH SOLID BACKING. SECURE TO SUBSTRATE WITH SEMI-PERMANENT ATTACHMENTS FOR REMOVAL AND CLEANING.
0640.68	HARDWOOD VENEER OPEN SHELVING
0810.02	HOLLOW METAL FRAME
0840.01	ALUMINUM STOREFRONT
0840.34	FOLDING ALUMINUM GLASS DOORS
0920.28	5/8" GYPSUM BOARD (TYPE X)
0950.03	TONGUE AND GROOVE WOOD CEILING
0950.10	WOOD CEILING ACCESS PANEL
0960.27	6" RESILIENT BASE
0970.04	WALL PROTECTION PANEL
0970.05	MAGNETIC MARKABLE WALL COVERING
0990.04	CLEAN AND PREP SURFACE AND PAINT
1010.22	INTERIOR SIGNAGE
2330.17	SUPPLY AIR REGISTER
2330.18	RETURN AIR GRILLE
2650.10	WALL-MOUNTED EXIT SIGN (RE: ELECTRICAL)
2650.23	CEILING-WASHING COVE LIGHT FIXTURE (RE: ELECTRICAL)
2650.24	SUSPENDED LIGHT FIXTURE (RE: ELECTRICAL)

MATERIAL LEGEND

PATTERN	DESCRIPTION
	WOOD ROUGH-SAWN WOOD STRUCTURE STAIN AND SEAL, REF. A7.1 WD4
	WOOD DOORS, MILLWORK, & TRIM
	HARDWOOD VENEER CASEWORK
	HARDWOOD VENEER CASEWORK - SCIENTIFIC
	PROTECTIVE WALL COVERING ACROVYN BY DESIGN (OR ARCHITECT-APPROVED EQUAL)
	WALL ACCENT TILE DALTILE, REMEDY LINE COLOR: HYDRA
	BULLETIN BOARD FORBO COLOR: OYSTER SHELL
	MAGNETIC MARKABLE WALL COVERING KOROSEAL WALLTALKERS MAG-RITE II COLOR: WHITE
	INTERIOR GLAZING 1/4" CLEAR MONOLITHIC, TEMPERED
	EXTERIOR GLAZING 1" CLEAR, LOW-E I.G.U.

EQUIPMENT LEGEND

TAG	FURNISHED BY	INSTALLED BY	TYPE
AU	OWNER	OWNER	BENCHTOP AUTOCLAVE
BC	OWNER	OWNER	BENCHTOP CENTRIFUGE
BI	OWNER	OWNER	BENCHTOP INCUBATOR
DP	CONTRACTOR	CONTRACTOR	DRYING PEGBOARD, 30" x 36"
GG	CONTRACTOR	CONTRACTOR	SAFETY GOGGLE CABINET
GW	CONTRACTOR	CONTRACTOR	GLASSWARE WASHER
ID	OWNER	CONTRACTOR	85" INTERACTIVE DISPLAY
IM	CONTRACTOR	CONTRACTOR	ICE MAKER
KI	CONTRACTOR	CONTRACTOR	KILN
LF	OWNER	OWNER	LARGE FORMAT PRINTER
PL	OWNER	OWNER	PLOTTER
WR	CONTRACTOR	CONTRACTOR	WIRE RACK SHELVING

AREA TABULATION

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

ISSUE FOR PROPOSALS

REGISTERED ARCHITECT · ANNE HILDEBRAND · 18243 · STATE OF TEXAS
1/20/2026

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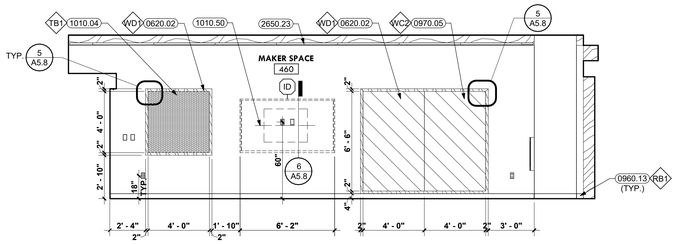
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DRAWN BY MCR, JCP
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BRW PROJECT NUMBER 225057.00

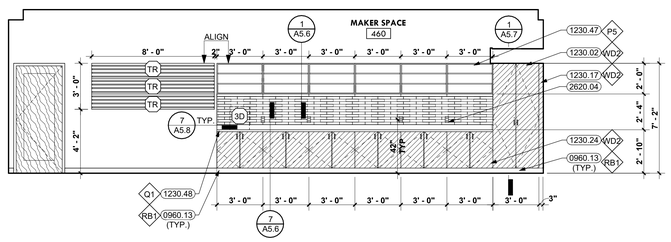
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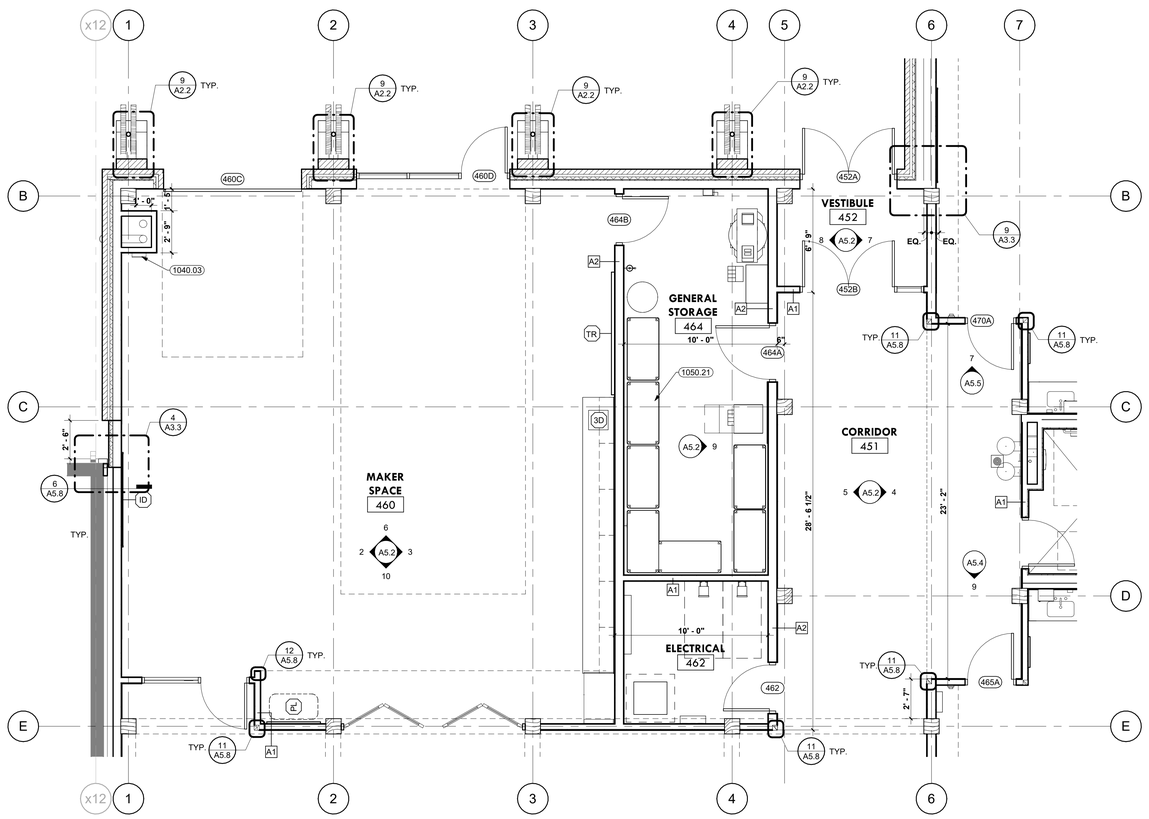
A5.1
ENLARGED PLANS AND INTERIOR ELEVATIONS



2 INTERIOR ELEVATION
1/4" = 1'-0"

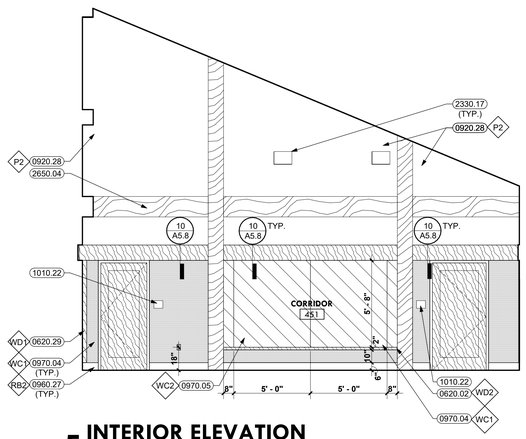


3 INTERIOR ELEVATION
1/4" = 1'-0"

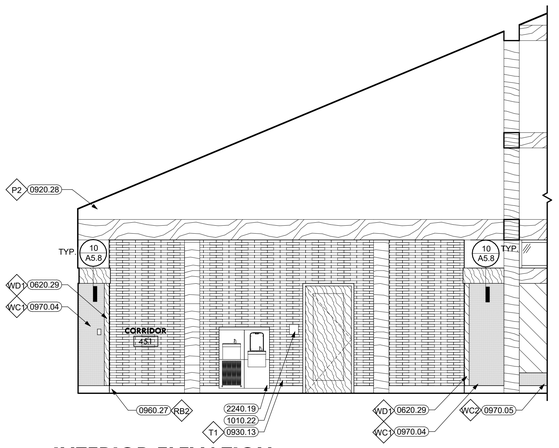


1 ENLARGED PLAN
1/4" = 1'-0"

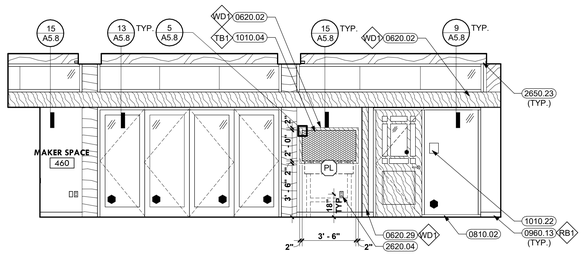
PLAN NORTH / TRUE NORTH



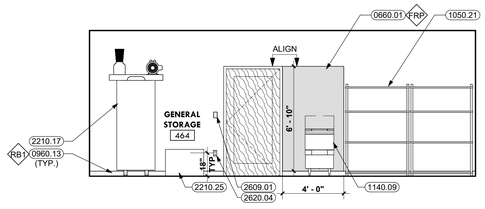
5 INTERIOR ELEVATION
1/4" = 1'-0"



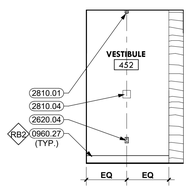
4 INTERIOR ELEVATION
1/4" = 1'-0"



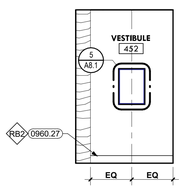
10 INTERIOR ELEVATION
1/4" = 1'-0"



9 INTERIOR ELEVATION
1/4" = 1'-0"



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



7 INTERIOR ELEVATION
1/4" = 1'-0"

KEYNOTES

0620.02	1X HARDWOOD TRIM
0620.29	HARDWOOD CORNER GUARD (RE: PLAN DETAIL)
0660.01	FIBER-REINFORCED PLASTIC PANEL
0810.02	HOLLOW METAL FRAME
0920.28	5/8" GYPSUM BOARD (TYPE X)
0930.13	GLAZED PORCELAIN TILE
0960.13	4" RESILIENT BASE
0960.27	6" RESILIENT BASE
0970.04	WALL PROTECTION PANEL
0970.05	MAGNETIC MARKABLE WALL COVERING
1010.04	TACKBOARD
1010.22	INTERIOR SIGNAGE
1010.50	WALL-MOUNTED FLAT PANEL DISPLAY MOUNTING HARDWARE. PROVIDE PLYWOOD IN WALL AS REQUIRED
1040.03	FIRE EXTINGUISHER AND SEMI-RECESSED CABINET
1050.21	WIRE FOUR POST SHELVING UNITS
1140.09	ICE MACHINE
1230.02	HARDWOOD VENEER TALL STORAGE CABINET
1230.17	CASEWORK FILLER
1230.24	HARDWOOD VENEER BASE CABINET CASEWORK WITH ADJUSTABLE SHELVES
1230.47	FACTORY-PAINTED METAL WALL OPEN SHELVING
1230.48	QUARTZ COUNTERTOP WITH 4" SPLASH AS SHOWN
2210.17	AIR COMPRESSOR/TANK (RE: PLUMBING)
2210.25	REFRIGERATED AIR DRYER (RE: PLUMBING)
2240.19	WATER FOUNTAIN AND BOTTLE FILLER (RE: PLUMBING)
2330.17	SUPPLY AIR REGISTER
2609.01	LIGHTING CONTROL SWITCH (RE: ELECTRICAL)
2620.04	ELECTRICAL OUTLET (RE: ELECTRICAL)
2650.04	SUSPENDED LIGHT FIXTURE (RE: ELECTRICAL)
2650.23	CEILING-WASHING COVE LIGHT FIXTURE (RE: ELECTRICAL)
2810.01	MOTION SENSOR
2810.04	KEYPAD ACCESS CONTROL

MATERIAL LEGEND

PATTERN	DESCRIPTION
	WOOD ROUGH-SAWN WOOD STRUCTURE STAIN AND SEAL, REF. A7.1 WD4
	WOOD DOORS, MILLWORK, & TRIM
	HARDWOOD VENEER CASEWORK
	HARDWOOD VENEER CASEWORK - SCIENTIFIC
	PROTECTIVE WALL COVERING ACROVYN BY DESIGN (OR ARCHITECT-APPROVED EQUAL)
	WALL ACCENT TILE DALTILE, REMEDY LINE COLOR: HYDRA
	BULLETIN BOARD FORBO COLOR: OYSTER SHELL
	MAGNETIC MARKABLE WALL COVERING KOROSEAL WALLTALKERS MAG-RITE II COLOR: WHITE
	INTERIOR GLAZING 1/4" CLEAR MONOLITHIC, TEMPERED
	EXTERIOR GLAZING 1" CLEAR, LOW-E I.G.U.

EQUIPMENT LEGEND

TAG	FURNISHED BY	INSTALLED BY	TYPE
AU	OWNER	OWNER	BENCHTOP AUTOCLAVE
BC	OWNER	OWNER	BENCHTOP CENTRIFUGE
BI	OWNER	OWNER	BENCHTOP INCUBATOR
DP	CONTRACTOR	CONTRACTOR	DRYING PEGBOARD, 30" x 36"
GG	CONTRACTOR	CONTRACTOR	SAFETY GOGGLE CABINET
GW	CONTRACTOR	CONTRACTOR	GLASSWARE WASHER
ID	OWNER	CONTRACTOR	85" INTERACTIVE DISPLAY
IM	CONTRACTOR	CONTRACTOR	ICE MAKER
KI	CONTRACTOR	CONTRACTOR	KILN
LF	OWNER	OWNER	LARGE FORMAT PRINTER
PL	OWNER	OWNER	PLOTTER
WR	CONTRACTOR	CONTRACTOR	WIRE RACK SHELVING

AREA TABULATION

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

ISSUE FOR PROPOSALS

REGISTERED ARCHITECT — ANNE HILDENBRAND — 18243 — STATE OF TEXAS
1/20/2026

BRWARCHITECTS
3535 TRAVIS STREET
SUITE 203
DALLAS, TEXAS 75204
214.528.8704
BRWARCH.COM

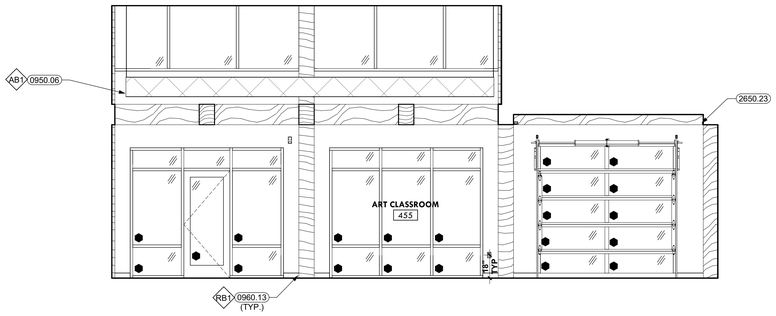
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DATE	JANUARY 20, 2026
DRAWN BY	MCR, JCP
CHECKED BY	RVH, AIH
BRW PROJECT NUMBER	225057.00

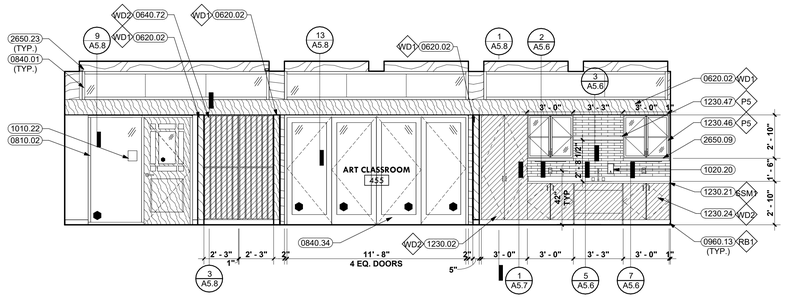
WESTLAKE ACADEMY
ARTS & SCIENCES ADDITION
2400 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

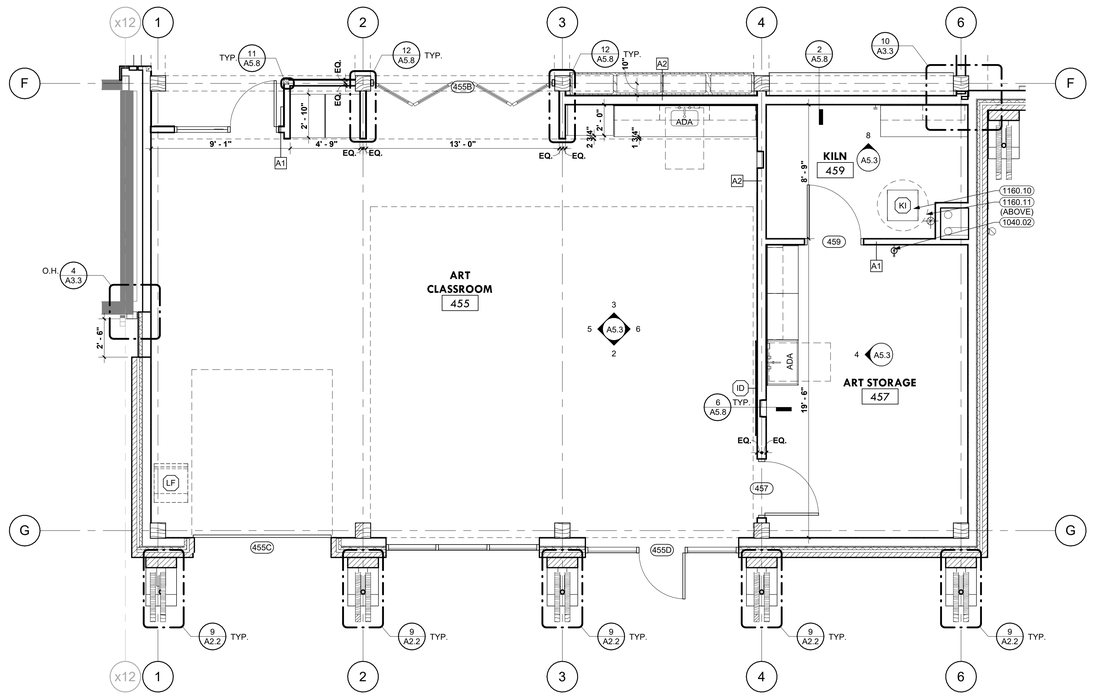
A5.2
ENLARGED PLANS AND INTERIOR ELEVATIONS



2 INTERIOR ELEVATION
1/4" = 1'-0"

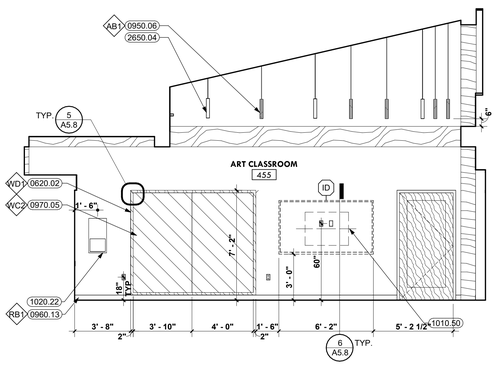


3 INTERIOR ELEVATION
1/4" = 1'-0"

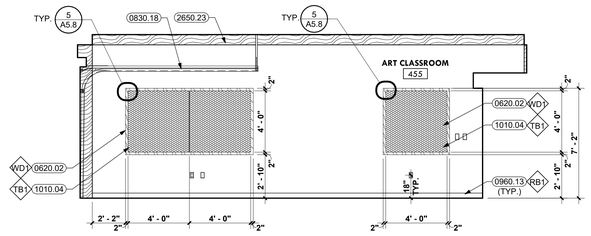


PLAN NORTH TRUE NORTH

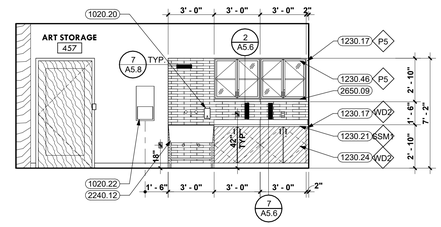
1 ENLARGED PLAN
1/4" = 1'-0"



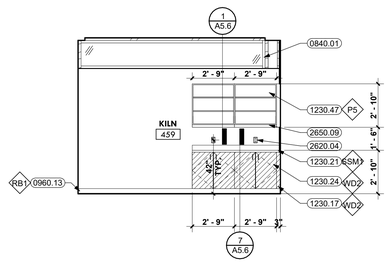
6 INTERIOR ELEVATION
1/4" = 1'-0"



5 INTERIOR ELEVATION
1/4" = 1'-0"



4 INTERIOR ELEVATION
1/4" = 1'-0"



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

KEYNOTES

0620.02	1X HARDWOOD TRIM
0640.72	HARDWOOD VENEER PORTFOLIO CABINET MILLWORK
0810.02	HOLLOW METAL FRAME
0830.18	DOOR TRACK
0840.01	ALUMINUM STOREFRONT
0840.34	FOLDING ALUMINUM GLASS DOORS
0950.06	SUSPENDED ACOUSTICAL BAFFLE CEILING SYSTEM
0960.13	4" RESILIENT BASE
0970.05	MAGNETIC MARKABLE WALL COVERING
1010.04	TACKBOARD
1010.22	INTERIOR SIGNAGE
1010.50	WALL-MOUNTED FLAT PANEL DISPLAY MOUNTING HARDWARE. PROVIDE PLYWOOD IN WALL AS REQUIRED
1020.20	STAINLESS STEEL SOAP DISPENSER (O.P.C.I.)
1020.22	STAINLESS STEEL PAPER TOWEL DISPENSER (O.P.C.I.)
1040.02	FIRE EXTINGUISHER AND WALL BRACKET
1160.10	KILN
1160.11	KILN HOOD
1230.02	HARDWOOD VENEER TALL STORAGE CABINET
1230.17	CASEWORK FILLER
1230.21	CHEMICAL RESISTANT EPOXY RESIN COUNTERTOP WITH INTEGRAL SINKS
1230.24	HARDWOOD VENEER BASE CABINET CASEWORK WITH ADJUSTABLE SHELVES
1230.46	FACTORY-PAINTED METAL WALL CABINETS WITH GLASS DOORS AND ADJUSTABLE SHELVES
1230.47	FACTORY-PAINTED METAL WALL OPEN SHELVING
2240.12	UTILITY SINK (RE: PLUMBING)
2620.04	ELECTRICAL OUTLET (RE: ELECTRICAL)
2650.04	SUSPENDED LIGHT FIXTURE (RE: ELECTRICAL)
2650.09	UNDER / OVER CABINET LIGHT (RE: ELECTRICAL)
2650.23	CEILING-WASHING COVE LIGHT FIXTURE (RE: ELECTRICAL)

MATERIAL LEGEND

PATTERN	DESCRIPTION
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	INTERIOR GLAZING 1/4" CLEAR MONOLITHIC, TEMPERED
	EXTERIOR GLAZING 1" CLEAR, LOW-E I.G.U.

EQUIPMENT LEGEND

TAG	FURNISHED BY	INSTALLED BY	TYPE
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BC	OWNER	OWNER	BENCHTOP CENTRIFUGE
BI	OWNER	OWNER	BENCHTOP INCUBATOR
DP	CONTRACTOR	CONTRACTOR	DRYING PEGBOARD, 30" x 36"
GG	CONTRACTOR	CONTRACTOR	SAFETY GOGGLE CABINET
GW	CONTRACTOR	CONTRACTOR	GLASSWARE WASHER
ID	OWNER	CONTRACTOR	85" INTERACTIVE DISPLAY
IM	CONTRACTOR	CONTRACTOR	ICE MAKER
KI	CONTRACTOR	CONTRACTOR	KILN
LF	OWNER	OWNER	LARGE FORMAT PRINTER
PL	OWNER	OWNER	PLOTTER
WR	CONTRACTOR	CONTRACTOR	WIRE RACK SHELVING

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ISSUE FOR PROPOSALS

REGISTERED ARCHITECT · ANNE HILDEBRAN · 18243 · STATE OF TEXAS
1/20/2026

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3535 TRAVIS STREET SUITE 100
DALLAS, TEXAS 75204
214.528.8704
BRWARCH.COM

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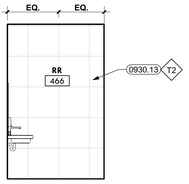
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DRAWN BY MCR, JCP
CHECKED BY RVH, AIH
BRW PROJECT NUMBER 2250S7.00

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ARTS & SCIENCES ADDITION
2600 J.T. OTTINGER RD.
WESTLAKE, TX 76262

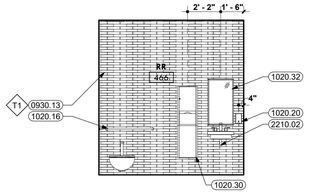
NO.	REVISION	DATE

A5.3

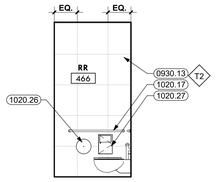
ENLARGED PLANS AND INTERIOR ELEVATIONS



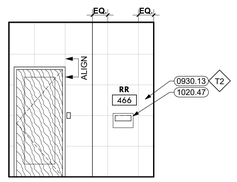
5 INTERIOR ELEVATION
1/4" = 1'-0"



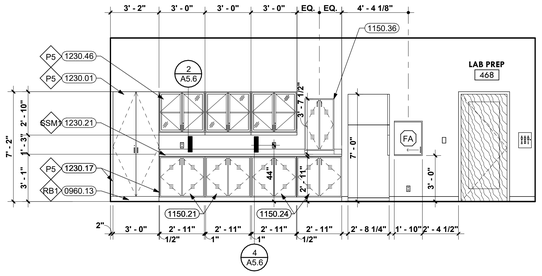
4 INTERIOR ELEVATION
1/4" = 1'-0"



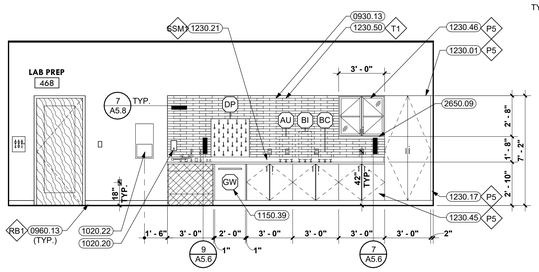
3 INTERIOR ELEVATION
1/4" = 1'-0"



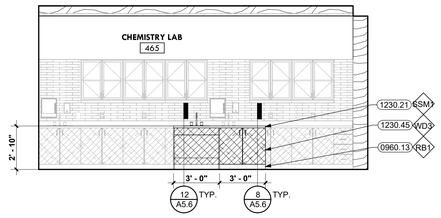
2 INTERIOR ELEVATION
1/4" = 1'-0"



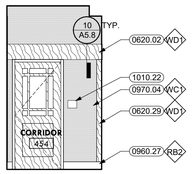
7 INTERIOR ELEVATION
1/4" = 1'-0"



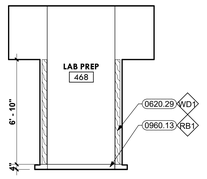
6 INTERIOR ELEVATION
1/4" = 1'-0"



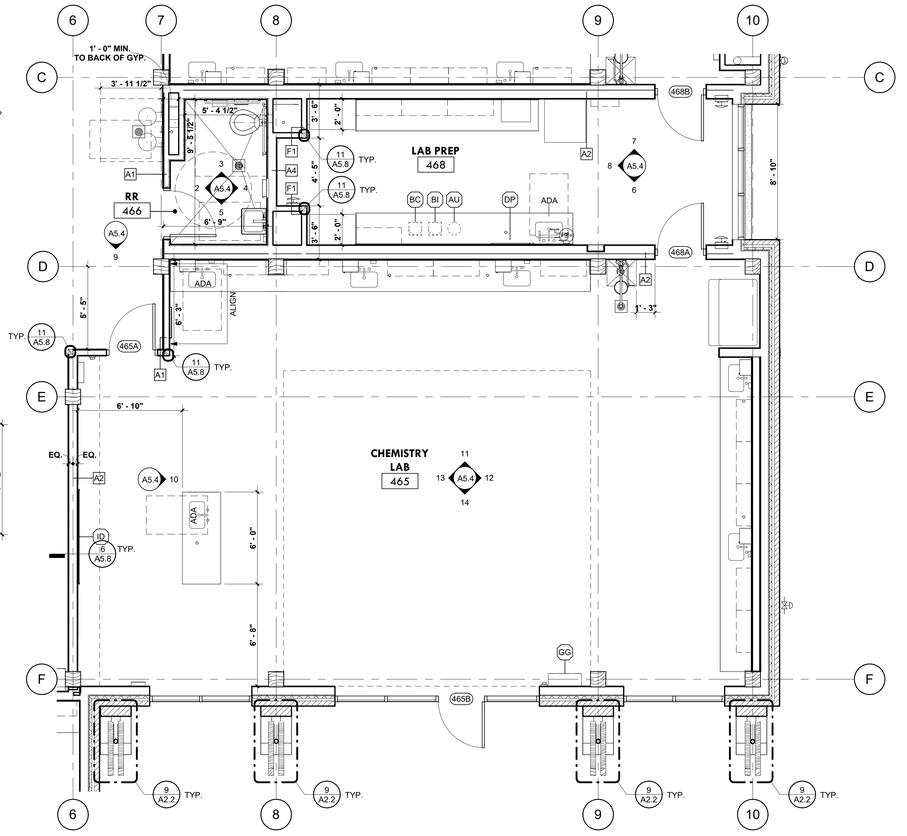
10 INTERIOR ELEVATION
1/4" = 1'-0"



9 INTERIOR ELEVATION
1/4" = 1'-0"

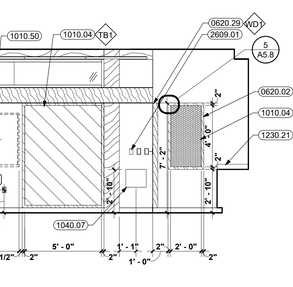


8 INTERIOR ELEVATION
1/4" = 1'-0"

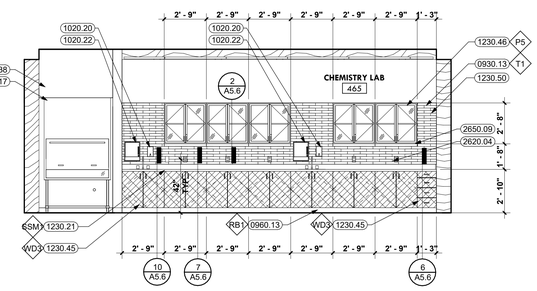


1 ENLARGED PLAN
1/4" = 1'-0"

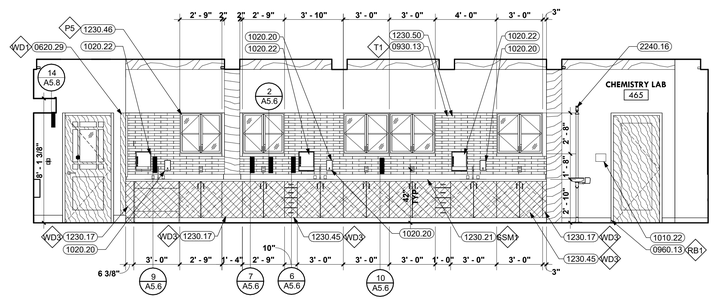
PLAN NORTH / TRUE NORTH



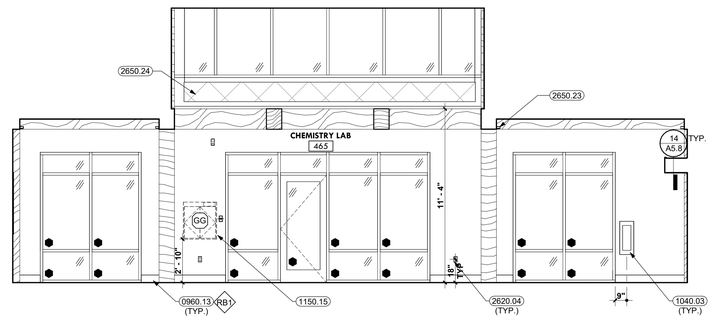
13 INTERIOR ELEVATION
1/4" = 1'-0"



12 INTERIOR ELEVATION
1/4" = 1'-0"



11 INTERIOR ELEVATION
1/4" = 1'-0"



14 INTERIOR ELEVATION
1/4" = 1'-0"

KEYNOTES

0620.02	1X HARDWOOD TRIM
0620.29	HARDWOOD CORNER GUARD (RE: PLAN DETAIL)
0840.01	ALUMINUM STOREFRONT
0930.13	GLAZED PORCELAIN TILE
0960.13	4" RESILIENT BASE
0960.27	6" RESILIENT BASE
0970.04	WALL PROTECTION PANEL
0970.05	MAGNETIC MARKABLE WALL COVERING
1010.04	TACKBOARD
1010.22	INTERIOR SIGNAGE
1010.50	WALL-MOUNTED FLAT PANEL DISPLAY MOUNTING HARDWARE. PROVIDE PLYWOOD IN WALL AS REQUIRED
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	STAINLESS STEEL SOAP DISPENSER (O.P.C.I.)
1020.22	STAINLESS STEEL PAPER TOWEL DISPENSER (O.P.C.I.)
1020.26	STAINLESS STEEL JUMBO ROLL TOILET PAPER DISPENSER (O.P.C.I.)
1020.27	STAINLESS STEEL SANITARY NAPKIN DISPOSAL (PARTITION MOUNTED) (O.P.C.I.)
1020.30	STAINLESS STEEL PAPER TOWEL DISPENSER / TRASH RECEPTACLE (O.P.C.I.)
1020.32	STAINLESS STEEL FRAMED MIRROR
1020.47	STAINLESS STEEL TOILET SEAT COVER DISPENSER (O.P.C.I.)
1040.03	FIRE EXTINGUISHER AND SEMI-RECESSED CABINET
1040.07	FIRE BLANKET AND CABINET
1150.15	GOGGLE STERILIZATION CABINET
1150.17	FUME HOOD
1150.21	FLAMMABLES STORAGE CABINET
1150.24	PREMANUFACTURED ACID STORAGE CABINET
1150.36	EXPLOSIVES CABINET
1150.38	PREFINISHED METAL DUCT FUME HOOD COVER
1150.39	GLASSWARE WASHER
1230.01	FACTORY-PAINTED TALL STORAGE CABINET
1230.17	CASEWORK FILLER
1230.21	CHEMICAL RESISTANT EPOXY RESIN COUNTERTOP WITH INTEGRAL SINKS
1230.45	HARDWOOD VENEER BASE CABINETS
1230.46	FACTORY-PAINTED METAL WALL CABINETS WITH GLASS DOORS AND ADJUSTABLE SHELVES
1230.50	CHEMICALLY RESISTANT EPOXY POWDER COAT ENAMEL
2210.02	PIPE SLEEVE AND SEAL (RE: PLUMBING)
2240.16	EMERGENCY EYE WASH STATION
2609.01	LIGHTING CONTROL SWITCH (RE: ELECTRICAL)
2620.04	ELECTRICAL OUTLET (RE: ELECTRICAL)
2650.09	UNDER / OVER CABINET LIGHT (RE: ELECTRICAL)
2650.23	CEILING-WASHING COVE LIGHT FIXTURE (RE: ELECTRICAL)
2650.24	SUSPENDED LIGHT FIXTURE (RE: ELECTRICAL)

MATERIAL LEGEND

PATTERN	DESCRIPTION
	WOOD ROUGH-SAWN WOOD STRUCTURE STAIN AND SEAL, REF. A7.1 WD4
	WOOD DOORS, MILLWORK, & TRIM
	HARDWOOD VENEER CASEWORK
	HARDWOOD VENEER CASEWORK - SCIENTIFIC
	PROTECTIVE WALL COVERING ACROVYN BY DESIGN (OR ARCHITECT-APPROVED EQUAL)
	WALL ACCENT TILE DALTILE, REMEDY LINE COLOR: HYDRA
	BULLETIN BOARD FORBO COLOR: OYSTER SHELL
	MAGNETIC MARKABLE WALL COVERING KOROSEAL WALLTALKERS MAG-RITE II COLOR: WHITE
	INTERIOR GLAZING 1/4" CLEAR MONOLITHIC, TEMPERED
	EXTERIOR GLAZING 1" CLEAR, LOW-E I.G.U.

EQUIPMENT LEGEND

TAG	FURNISHED BY	INSTALLED BY	TYPE
AU	OWNER	OWNER	BENCHTOP AUTOCLAVE
BC	OWNER	OWNER	BENCHTOP CENTRIFUGE
BI	OWNER	OWNER	BENCHTOP INCUBATOR
DP	CONTRACTOR	CONTRACTOR	DRYING PEGBOARD, 30" x 36"
GG	CONTRACTOR	CONTRACTOR	SAFETY GOGGLE CABINET
GW	CONTRACTOR	CONTRACTOR	GLASSWARE WASHER
ID	OWNER	CONTRACTOR	85" INTERACTIVE DISPLAY
IM	CONTRACTOR	CONTRACTOR	ICE MAKER
KI	CONTRACTOR	CONTRACTOR	KILN
LF	OWNER	OWNER	LARGE FORMAT PRINTER
PL	OWNER	OWNER	PLOTTER
WR	CONTRACTOR	CONTRACTOR	WIRE RACK SHELVING

AREA TABULATION

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

ISSUE FOR PROPOSALS

REGISTERED ARCHITECT · ANNE HILDENBRAND · 18243 · STATE OF TEXAS
1/20/2026

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3535 TRAVIS STREET
SUITE 100
DALLAS, TEXAS 75204
214-528-8704
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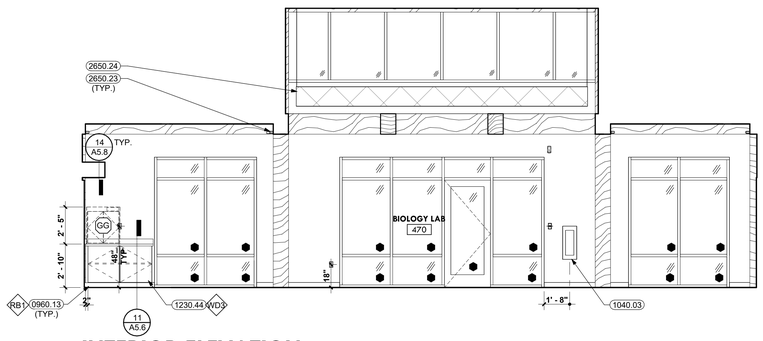
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DATE	JANUARY 20, 2026
DRAWN BY	MCR, JCP
CHECKED BY	RVH, AIH
BRW PROJECT NUMBER	225057.00

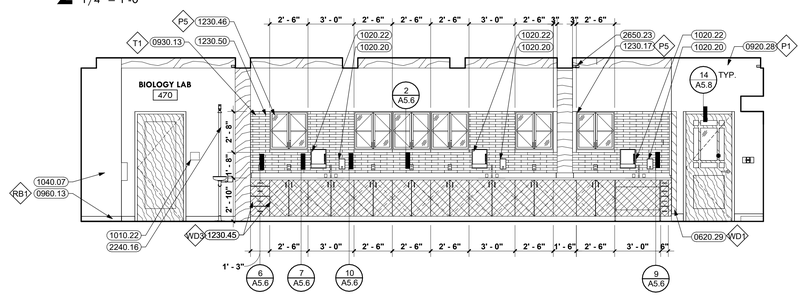
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WESTLAKE, TX 76262

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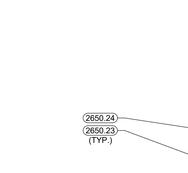
A5.4
ENLARGED PLANS AND INTERIOR ELEVATIONS



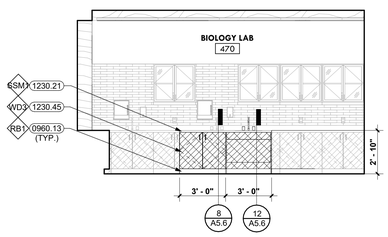
2 INTERIOR ELEVATION
1/4" = 1'-0"



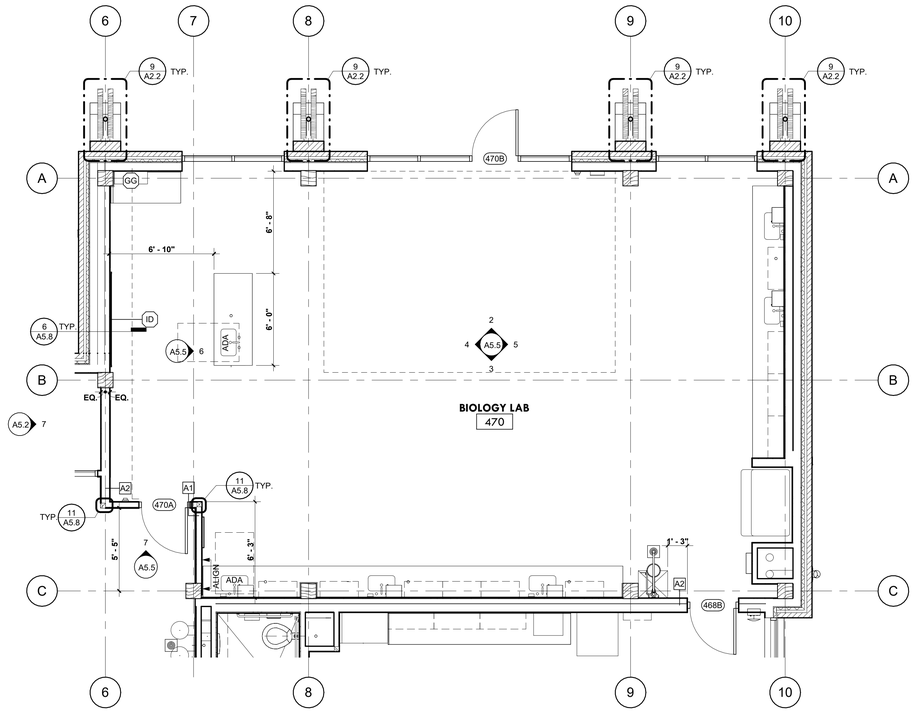
3 INTERIOR ELEVATION
1/4" = 1'-0"



7 INTERIOR ELEVATION
1/4" = 1'-0"

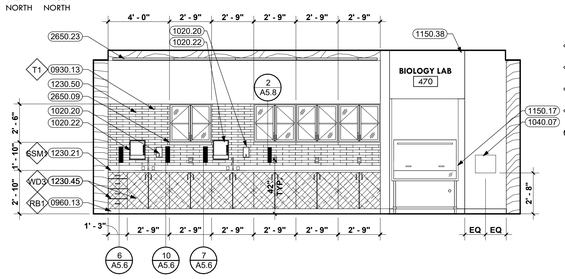


6 INTERIOR ELEVATION
1/4" = 1'-0"

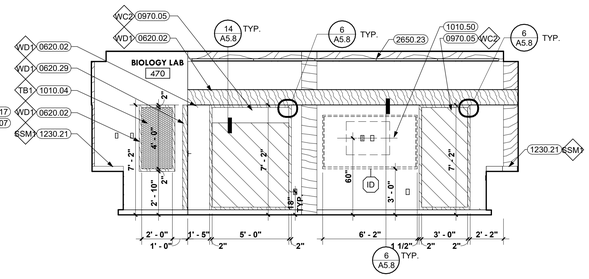


1 ENLARGED PLAN
1/4" = 1'-0"

PLAN NORTH / TRUE NORTH



5 INTERIOR ELEVATION
1/4" = 1'-0"



4 INTERIOR ELEVATION
1/4" = 1'-0"

MATERIAL LEGEND

PATTERN	DESCRIPTION
	WOOD ROUGH-SAWN WOOD STRUCTURE STAIN AND SEAL, REF. A7.1 WD4
	WOOD DOORS, MILLWORK, & TRIM
	HARDWOOD VENEER CASEWORK
	HARDWOOD VENEER CASEWORK - SCIENTIFIC
	PROTECTIVE WALL COVERING ACROVYN BY DESIGN (OR ARCHITECT-APPROVED EQUAL)
	WALL ACCENT TILE DALTILE, REMEDY LINE COLOR: HYDRA
	BULLETIN BOARD FORBO COLOR: OYSTER SHELL
	MAGNETIC MARKABLE WALL COVERING KOROSEAL WALLTALKERS MAG-RITE II COLOR: WHITE
	INTERIOR GLAZING 1/4" CLEAR MONOLITHIC, TEMPERED
	EXTERIOR GLAZING 1" CLEAR, LOW-E I.G.U.

KEYNOTES

0620.02	1X HARDWOOD TRIM
0620.29	HARDWOOD CORNER GUARD (RE: PLAN DETAIL)
0920.28	5/8" GYPSUM BOARD (TYPE X)
0930.13	GLAZED PORCELAIN TILE
0960.13	4" RESILIENT BASE
0960.27	6" RESILIENT BASE
0970.04	WALL PROTECTION PANEL
0970.05	MAGNETIC MARKABLE WALL COVERING
1010.04	TACKBOARD
1010.22	INTERIOR SIGNAGE
1010.50	WALL-MOUNTED FLAT PANEL DISPLAY MOUNTING HARDWARE. PROVIDE PLYWOOD IN WALL AS REQUIRED
1020.20	STAINLESS STEEL SOAP DISPENSER (O.P.C.I.)
1020.22	STAINLESS STEEL PAPER TOWEL DISPENSER (O.P.C.I.)
1040.03	FIRE EXTINGUISHER AND SEMI-RECESSED CABINET
1040.07	FIRE BLANKET AND CABINET
1150.17	FUME HOOD
1150.38	PREFINISHED METAL DUCT FUME HOOD COVER
1230.17	CASEWORK FILLER
1230.21	CHEMICAL RESISTANT EPOXY RESIN COUNTERTOP WITH INTEGRAL SINKS
1230.44	HARDWOOD VENEER BASE CABINETS WITH INDIVIDUAL MICROSCOPE CHARGING STATIONS
1230.45	HARDWOOD VENEER BASE CABINETS
1230.46	FACTORY-PAINTED METAL WALL CABINETS WITH GLASS DOORS AND ADJUSTABLE SHELVES
1230.50	CHEMICALLY RESISTANT EPOXY POWDER COAT ENAMEL
2240.16	EMERGENCY EYE WASH STATION
2650.09	UNDER / OVER CABINET LIGHT (RE: ELECTRICAL)
2650.23	CEILING-WASHING COVE LIGHT FIXTURE (RE: ELECTRICAL)
2650.24	SUSPENDED LIGHT FIXTURE (RE: ELECTRICAL)

EQUIPMENT LEGEND

TAG	FURNISHED BY	INSTALLED BY	TYPE
AU	OWNER	OWNER	BENCHTOP AUTOCLAVE
BC	OWNER	OWNER	BENCHTOP CENTRIFUGE
BI	OWNER	OWNER	BENCHTOP INCUBATOR
DP	CONTRACTOR	CONTRACTOR	DRYING PEGBOARD, 30" x 36"
GG	CONTRACTOR	CONTRACTOR	SAFETY GOGGLE CABINET
GW	CONTRACTOR	CONTRACTOR	GLASSWARE WASHER
ID	OWNER	CONTRACTOR	85" INTERACTIVE DISPLAY
IM	CONTRACTOR	CONTRACTOR	ICE MAKER
KI	CONTRACTOR	CONTRACTOR	KILN
LF	OWNER	OWNER	LARGE FORMAT PRINTER
PL	OWNER	OWNER	PLOTTER
WR	CONTRACTOR	CONTRACTOR	WIRE RACK SHELVING

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DRAWN BY	MCR, JCP
CHECKED BY	RVH, AIH
BRW PROJECT NUMBER	2250057.00

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WESTLAKE, TX 76262

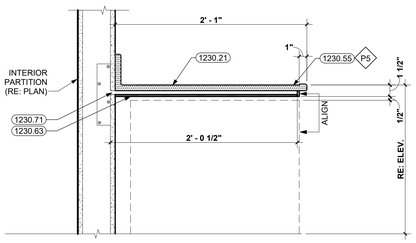
NO.	REVISION	DATE

A5.5

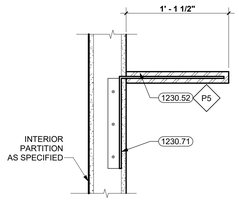
ENLARGED PLANS AND INTERIOR ELEVATIONS

KEYNOTES

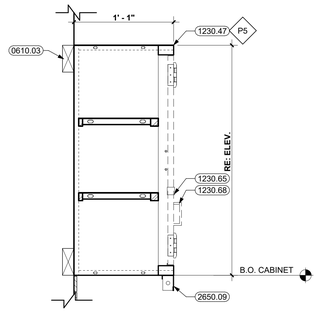
0610.02	1X WOOD BLOCKING
0610.03	2X WOOD BLOCKING
0930.14	SCHLUTER DESIGNLINE DECORATIVE BORDER PROFILE
0960.13	4" RESILIENT BASE
1020.34	VINYL-COATED PIPING WRAP
1230.21	CHEMICAL RESISTANT EPOXY RESIN COUNTERTOP WITH INTEGRAL SINKS
1230.45	HARDWOOD VENEER BASE CABINETS
1230.46	FACTORY-PAINTED METAL WALL CABINETS WITH GLASS DOORS AND ADJUSTABLE SHELVES
1230.47	FACTORY-PAINTED METAL WALL OPEN SHELVING
1230.48	QUARTZ COUNTERTOP WITH 4" SPLASH AS SHOWN
1230.49	REMOVABLE STAINLESS STEEL DIVIDER
1230.52	FACTORY-PAINTED METAL WALL FLOATING SHELF
1230.53	SCIENTIFIC-GRADE HARDWOOD VENEER BASE CABINETS
1230.54	FACTORY-PAINTED METAL BASE CABINETS
1230.55	FACTORY-PAINTED METAL TRIM
1230.63	3/4" PLYWOOD
1230.64	3/4" HARDWOOD VENEER PLYWOOD
1230.65	CABINET CAM LOCK
1230.66	DRAWER GLIDE
1230.67	ADJUSTABLE SHELF REST AND PRE-DRILLED HOLES AT 1" O.C. TYP.
1230.68	CABINET PULLS
1230.69	HARDWOOD DRAWER WITH 1/4" HARDWOOD BOTTOM
1230.70	1/4" HARDWOOD VENEER CABINET BACK
1230.71	CONCEALED COUNTERTOP BRACKET WITH IN-WALL CONFIGURATION HARDWARE. PROVIDE BLOCKING IN WALL AS REQUIRED
1230.72	3/4" HARDWOOD VENEER CABINET DOOR
1230.73	3/4" HARDWOOD VENEER CLAD PLYWOOD DRAWER WITH 1/4" HARDWOOD BOTTOM
2240.07	SINK FITTINGS (RE: PLUMBING)
2240.25	LAB SINK WITH GAS TAPS (RE: PLUMBING)
2240.27	EYE WASH AT SINK (RE: PLUMBING)
2620.01	CONDUIT (RE: ELECTRICAL)
2620.04	ELECTRICAL OUTLET (RE: ELECTRICAL)
2620.20	INTEGRATED 10 OUTLET POWER STRIP WITH SURGE PROTECTION (RE: ELECTRICAL)
2650.09	UNDER / OVER CABINET LIGHT (RE: ELECTRICAL)



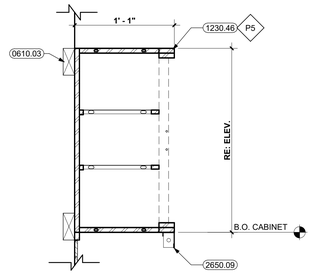
4 COUNTER WITH CONCEALED BRACKET
1 1/2" = 1'-0"



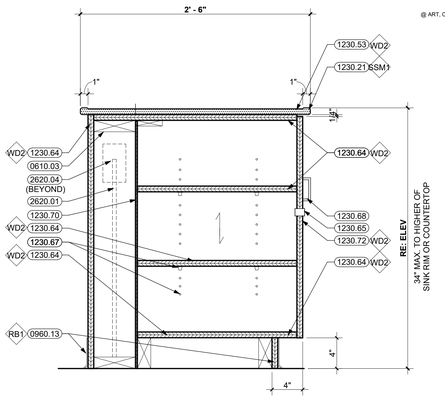
3 FLOATING SHELVING
1 1/2" = 1'-0"



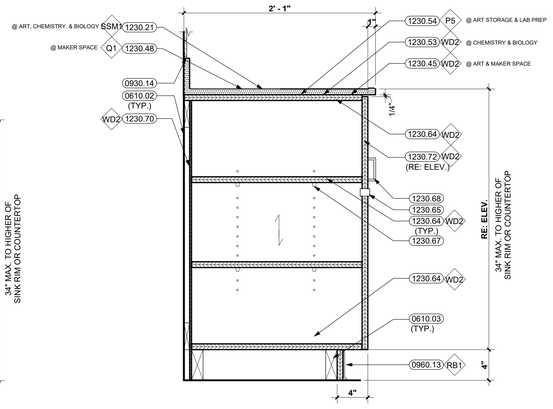
2 WALL CABINET - METAL
1 1/2" = 1'-0"



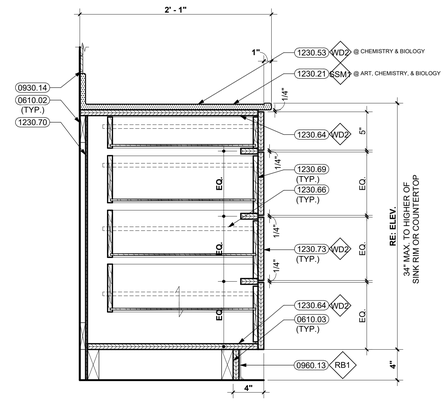
1 OPEN SHELVING - METAL
1 1/2" = 1'-0"



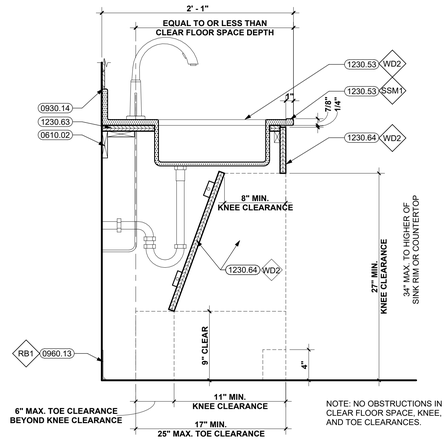
8 TEACHER DEMONSTRATION TABLE
1 1/2" = 1'-0"



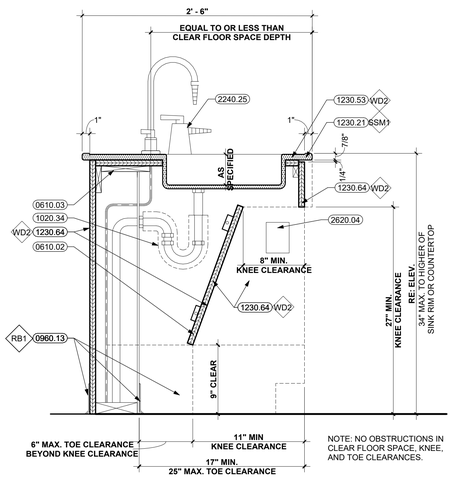
7 BASE CABINET - OPEN/DOOR
1 1/2" = 1'-0"



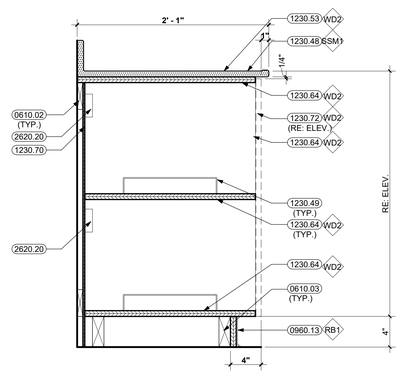
6 BASE CABINET - DRAWERS
1 1/2" = 1'-0"



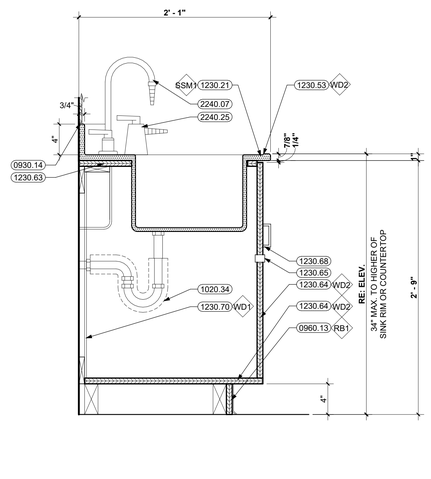
5 ART ACCESSIBLE SINK
1 1/2" = 1'-0"



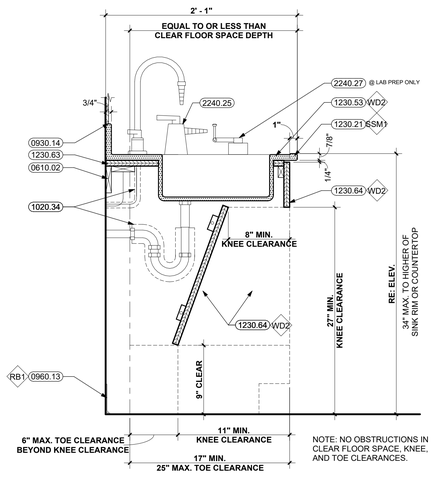
12 TEACHER DEMONSTRATION SINK
1 1/2" = 1'-0"



11 MICROSCOPE CHARGING CABINET
1 1/2" = 1'-0"



10 TYP. SCIENCE SINK
1 1/2" = 1'-0"



9 LAB ACCESSIBLE SINK
1 1/2" = 1'-0"

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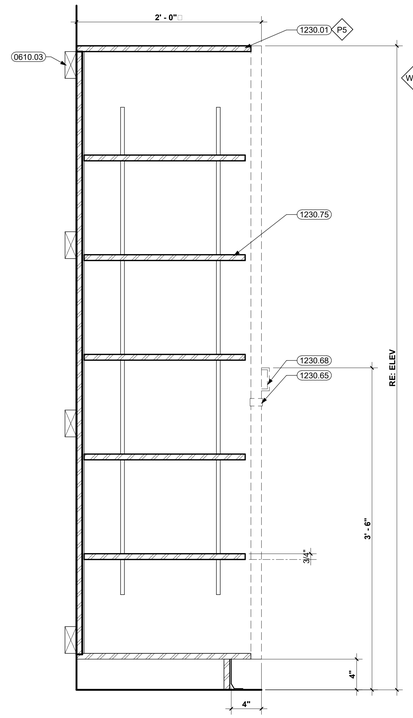
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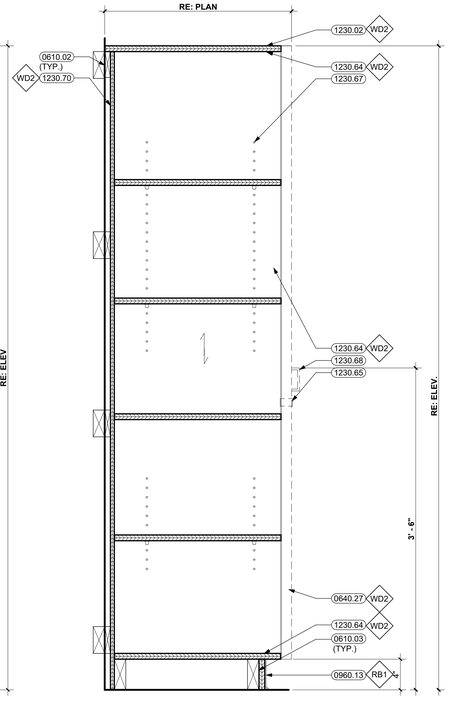
NO.	REVISION	DATE

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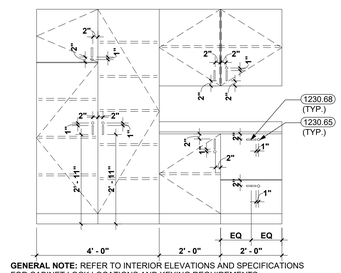
CASEWORK SECTIONS



2 TALL CABINET - METAL
1 1/2" = 1'-0"



1 TALL CABINET - WOOD
1 1/2" = 1'-0"



GENERAL NOTE: REFER TO INTERIOR ELEVATIONS AND SPECIFICATIONS FOR CABINET LOCK LOCATIONS AND KEYING REQUIREMENTS.

3 HARDWARE LEGEND
1/2" = 1'-0"

KEYNOTES

0610.02	1X WOOD BLOCKING
0610.03	2X WOOD BLOCKING
0640.27	1" THICK HARDWOOD VENEER COMBINATION CORE CABINET DOOR
0960.13	4" RESILIENT BASE
1230.01	FACTORY-PAINTED TALL STORAGE CABINET
1230.02	HARDWOOD VENEER TALL STORAGE CABINET
1230.64	3/4" HARDWOOD VENEER PLYWOOD
1230.65	CABINET CAM LOCK
1230.67	ADJUSTABLE SHELF REST AND PRE-DRILLED HOLES AT 1" O.C. TYP.
1230.68	CABINET PULLS
1230.70	1/4" HARDWOOD VENEER CABINET BACK
1230.75	FACTORY-PAINTED ADJUSTABLE SHELVES

ISSUE FOR PROPOSALS

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1/20/2026

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3535 TRAVIS STREET SUITE 100
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214-528-8704
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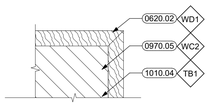
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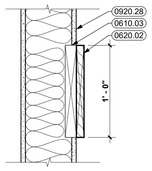
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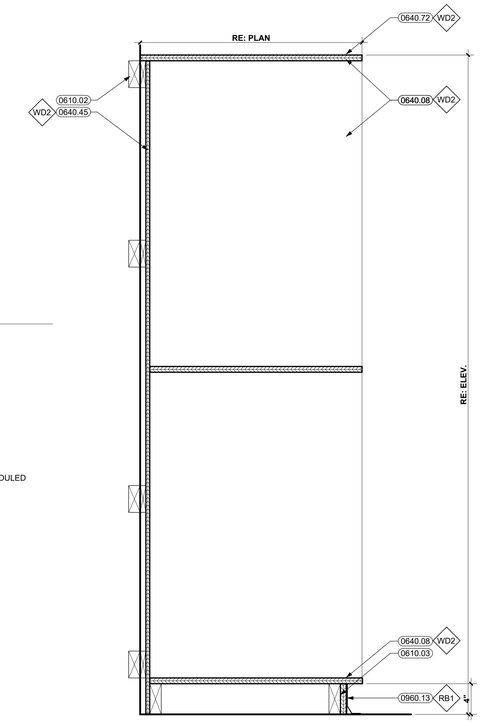
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CASEWORK SECTIONS & DETAILS



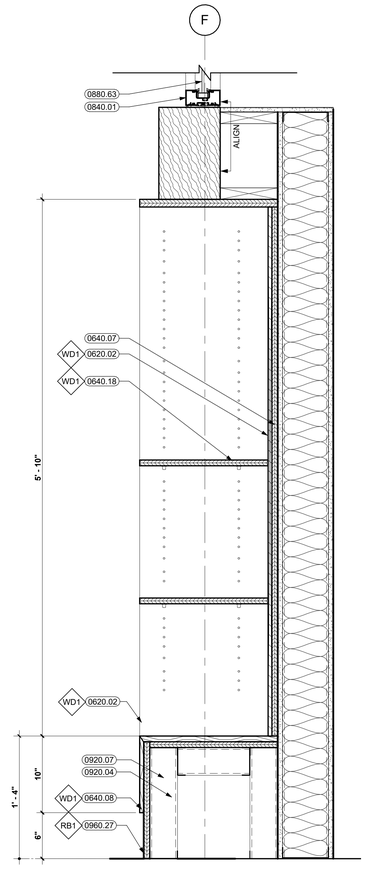
5 INTERIOR DETAIL
1 1/2" = 1'-0"



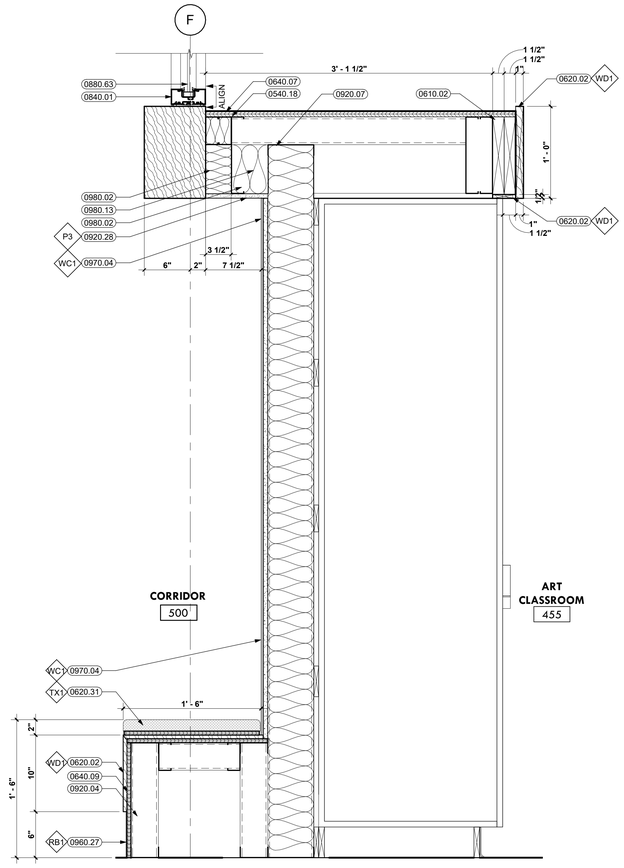
4 INTERIOR DETAIL
1 1/2" = 1'-0"



3 PORTFOLIO CABINET
1 1/2" = 1'-0"



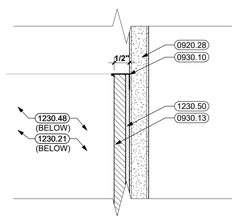
2 DISPLAY CASE SECTION
1 1/2" = 1'-0"



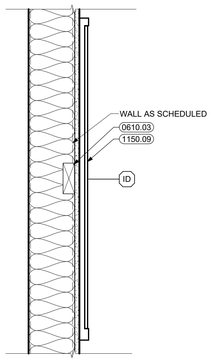
1 BENCH SECTION
1 1/2" = 1'-0"

KEYNOTES

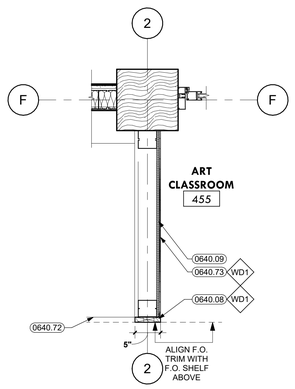
0540.12	COLD-FORMED METAL HEADER (RE: STRUCTURAL)
0540.18	3 5/8" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM
0540.31	10" METAL STUDS (C.F.M.F.) AT 16" O.C. MAXIMUM (RE: STRUCTURAL)
0610.01	SHIM AS REQUIRED
0610.02	1X WOOD BLOCKING
0610.03	2X WOOD BLOCKING
0610.31	HEAVY TIMBER COLUMN (RE: STRUCTURAL)
0610.32	HEAVY TIMBER BEAM (RE: STRUCTURAL)
0620.02	1X HARDWOOD TRIM
0620.29	HARDWOOD CORNER GUARD (RE: PLAN DETAIL)
0620.31	FULLY UPHOLSTERED HIGH-DENSITY FOAM BENCH CUSION WITH SOLID BACKING. SECURE TO SUBSTRATE WITH SEMI-PERMANENT ATTACHMENTS FOR REMOVAL AND CLEANING.
0640.07	3/4" PLYWOOD
0640.08	3/4" HARDWOOD VENEER PLYWOOD
0640.09	1/2" PLYWOOD
0640.18	ADJUSTABLE SHELVING
0640.45	1/4" HARDWOOD VENEER CABINET BACK
0640.72	HARDWOOD VENEER PORTFOLIO CABINET MILLWORK
0640.73	1/4" HARDWOOD VENEER WALL PANELING
0840.01	ALUMINUM STOREFRONT
0840.34	FOLDING ALUMINUM GLASS DOORS
0880.63	1/4" FLOAT GLASS
0920.04	3-5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C. MAXIMUM
0920.07	6" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C. MAXIMUM
0920.28	5/8" GYPSUM BOARD (TYPE X)
0930.10	SCHLUTER JOLLY EDGE PROTECTION PROFILE
0930.13	GLAZED PORCELAIN TILE
0960.13	4" RESILIENT BASE
0960.27	6" RESILIENT BASE
0970.04	WALL PROTECTION PANEL
0970.05	MAGNETIC MARKABLE WALL COVERING
0980.02	3 1/2" MINERAL WOOL SOUND ATTENUATION BATT INSULATION
0980.13	6" MINERAL WOOL SOUND ATTENUATION BATT INSULATION
1010.04	TACKBOARD
1150.09	WALL-MOUNTED FLAT PANEL DISPLAY MOUNTING HARDWARE. PROVIDE PLYWOOD IN WALL AS REQUIRED
1220.06	MANUAL WINDOW SHADE
1230.21	CHEMICAL RESISTANT EPOXY RESIN COUNTERTOP WITH INTEGRAL SINKS
1230.48	QUARTZ COUNTERTOP WITH 4" SPLASH AS SHOWN
1230.50	CHEMICALLY RESISTANT EPOXY POWDER COAT ENAMEL



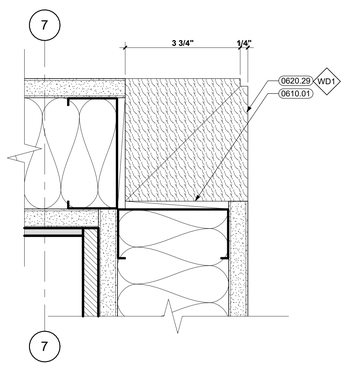
7 INTERIOR PLAN DETAIL
6" = 1'-0"



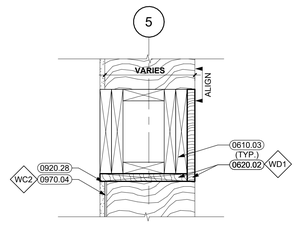
6 INTERIOR DETAIL
1 1/2" = 1'-0"



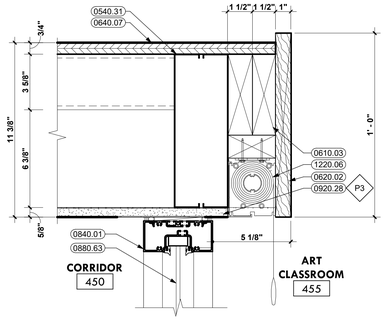
12 INTERIOR PLAN DETAIL
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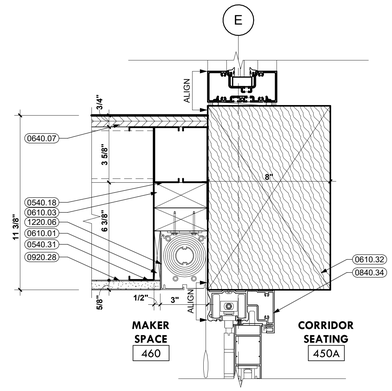
11 INTERIOR PLAN DETAIL
6" = 1'-0"



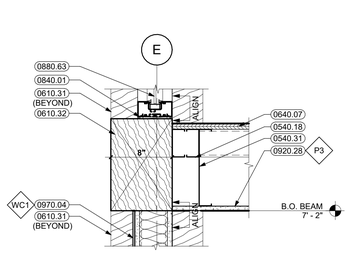
10 INTERIOR DETAIL
1 1/2" = 1'-0"



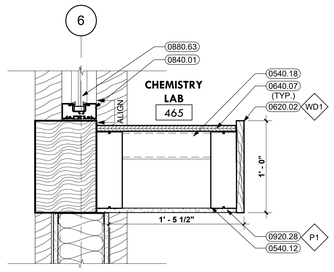
9 INTERIOR DETAIL
3" = 1'-0"



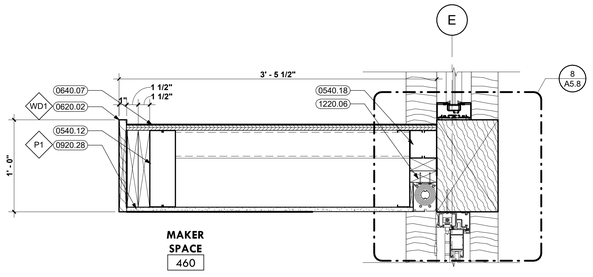
8 INTERIOR DETAIL
3" = 1'-0"



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



14 INTERIOR DETAIL
1 1/2" = 1'-0"



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

ISSUE FOR PROPOSALS

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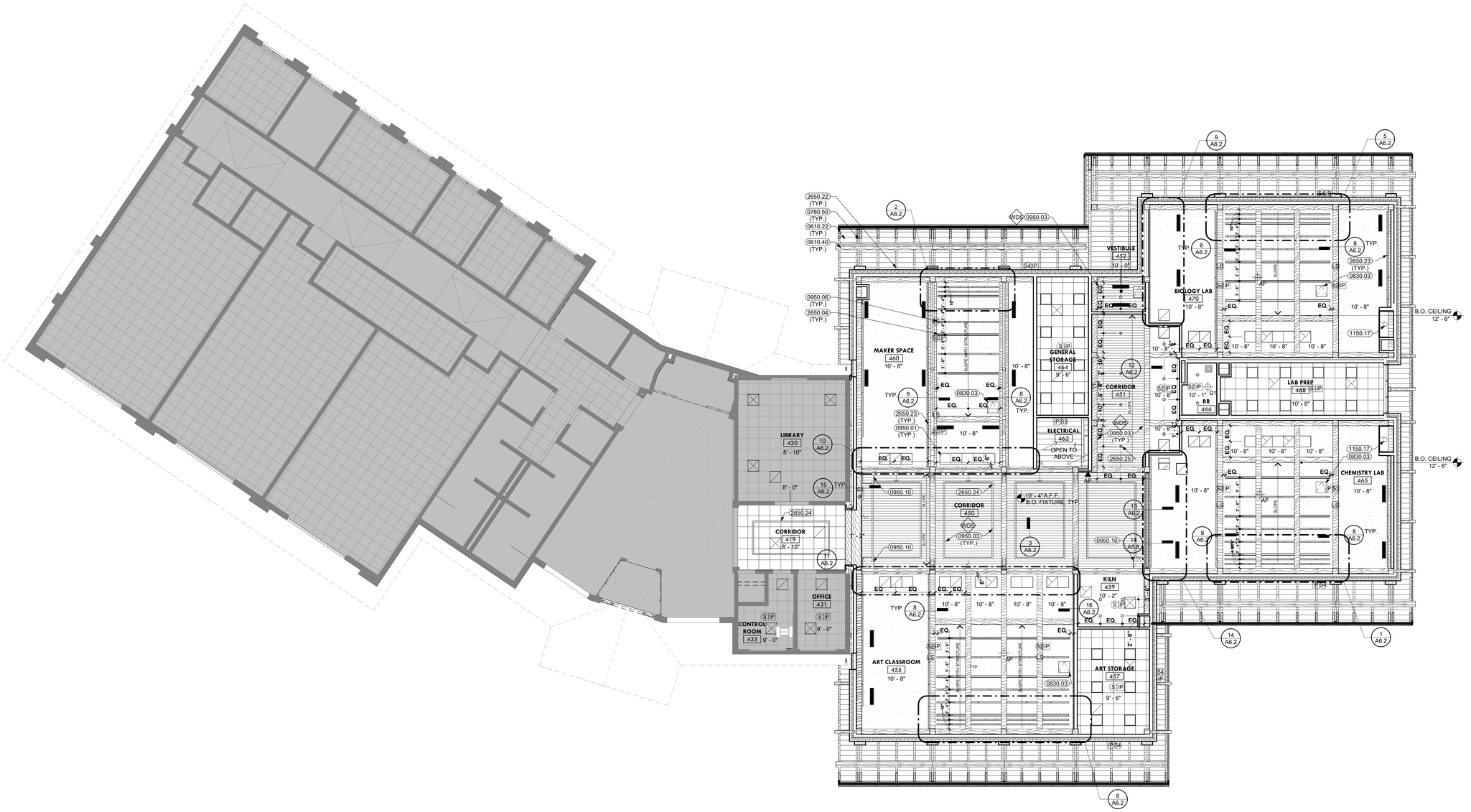
DATE JANUARY 20, 2026
DRAWN BY MCR, JCP
CHECKED BY RVH, AIH
BRW PROJECT NUMBER 225057.00

WESTLAKE ACADEMY
ARTS & SCIENCES ADDITION
2600 I.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

A5.8

MILLWORK SECTIONS & DETAILS



KEYNOTES

0610.22	3/4" TONGUE & GROOVE PLYWOOD ROOF DECKING
0610.40	ROUGH SAWN WOOD FRAMING, STAINED AND SEALED (RE: STRUCTURAL)
0760.50	3" GALVANIZED STEEL DOWNSPOUT
0830.03	CEILING ACCESS PANEL
0950.01	SUSPENDED ACOUSTICAL LAY-IN CEILING
0950.03	TONGUE AND GROOVE WOOD CEILING
0950.06	SUSPENDED ACOUSTICAL BAFFLE CEILING SYSTEM
0950.10	WOOD CEILING ACCESS PANEL
1150.17	FUME HOOD
2650.04	SUSPENDED LIGHT FIXTURE (RE: ELECTRICAL)
2650.22	WALL MOUNTED LIGHT FIXTURE (RE: ELECTRICAL)
2650.23	CEILING-WASHING COVE LIGHT FIXTURE (RE: ELECTRICAL)
2650.24	SUSPENDED LIGHT FIXTURE (RE: ELECTRICAL)
2650.25	PENDANT LIGHT FIXTURE (RE: ELECTRICAL)

RCP LEGEND

PATTERN	DESCRIPTION
	CEILINGS
	AC **ACOUSTICAL CEILING** **AC1** **ACOUSTICAL CEILING PANEL** DUNE 1775, ANGLED TEGULAR 24" X 24" X 3/4" COLOR: WHITE
	WD **WOOD CEILING** **WD5** **TONGUE AND GROOVE WOOD BOARD CEILING SYSTEM** STAIN: TO BE SELECTED BY ARCHITECT
	GYPSUM BOARD ON METAL SUPPORT SYSTEM RE: A7.1 FINISH LEGEND FOR PAINT COLOR
	CEILING FIXTURES AND EQUIPMENT RE: ELECTRICAL LIGHT FIXTURE SCHEDULE
	ACOUSTICAL SUSPENDED BAFFLE SIZE AS INDICATED IN DRAWINGS
	SUSPENDED BAFFLE INDIRECT LIGHT SIZE AS INDICATED IN DRAWINGS
	SUSPENDED LIGHT FIXTURE
	COVE-MOUNTED WALL WASHER FIXTURE
	WT **WINDOW TREATMENT** **WT1** **MANUAL ROLLER SHADE** B.O.D.: MECHOSHADE - MECHO/7 COLOR: PORCELAIN 0911
	RECESSED LIGHT FIXTURE
	PENDANT LIGHT FIXTURE
	LAY-IN LIGHT FIXTURE RE: ELECTRICAL
	SUPPLY AIR GRILLE RE: MECHANICAL
	LINEAR SUPPLY AIR GRILLE RE: MECHANICAL
	EXHAUST AIR GRILLE RE: MECHANICAL
	RETURN AIR GRILLE RE: MECHANICAL
	ACCESS PANEL
	ILLUMINATED EXIT SIGN RE: ELECTRICAL

PLAN NORTH / TRUE NORTH

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

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REGISTERED ARCHITECT · ANNE HILDENBRAND · 18243 · STATE OF TEXAS
1/20/2026

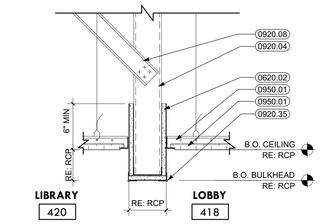
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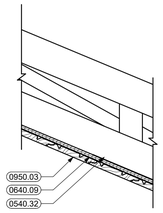
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NO.	REVISION	DATE

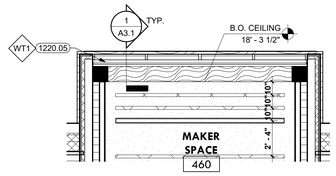
A6.1
REFLECTED CEILING PLAN



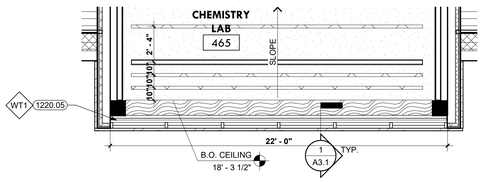
4 CEILING DETAIL
1 1/2" = 1'-0"



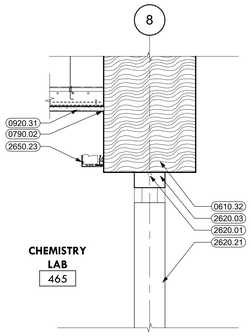
3 CEILING DETAIL
1 1/2" = 1'-0"



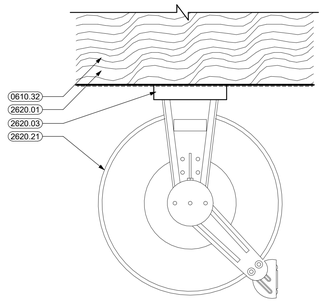
2 ENLARGED REFLECTED CEILING PLAN
1/4" = 1'-0"



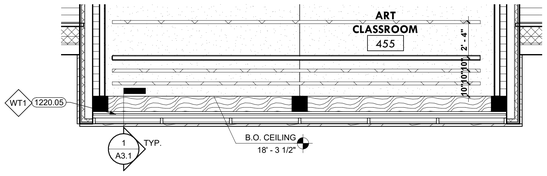
1 ENLARGED REFLECTED CEILING PLAN
1/4" = 1'-0"



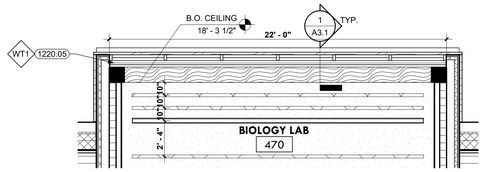
8 CEILING DETAIL
1 1/2" = 1'-0"



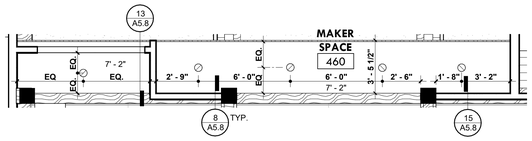
7 CEILING DETAIL
1 1/2" = 1'-0"



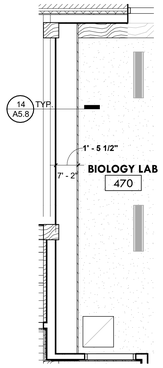
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1/4" = 1'-0"

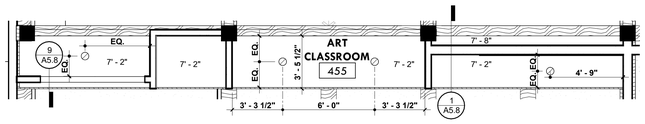


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1/4" = 1'-0"

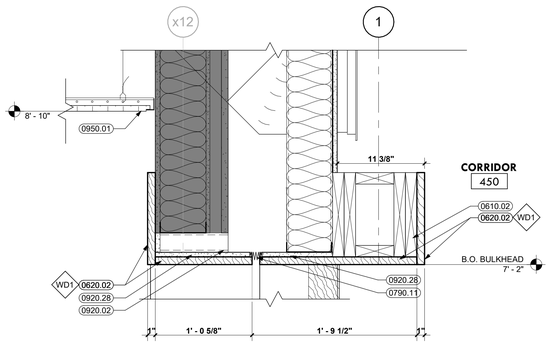


ENLARGED REFLECTED CEILING PLAN
1/4" = 1'-0"

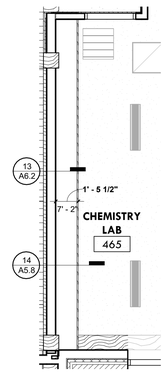




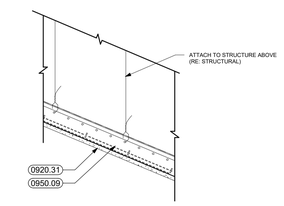
10 ENLARGED REFLECTED CEILING PLAN
1/4" = 1'-0"



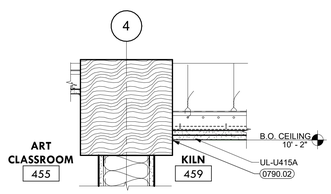
11 ENLARGED REFLECTED CEILING PLAN
1/4" = 1'-0"



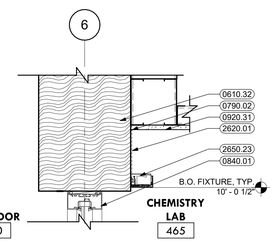
9 ENLARGED REFLECTED CEILING PLAN
1/4" = 1'-0"



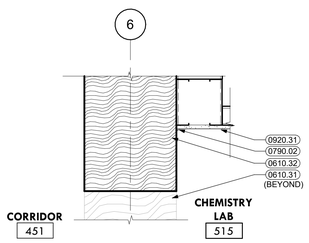
17 CEILING DETAIL
1 1/2" = 1'-0"



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



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



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

KEYNOTES

0540.32	COLD ROLLED STEEL ROOF TRUSS (RE: STRUCTURAL)
0610.02	1X WOOD BLOCKING
0610.31	HEAVY TIMBER COLUMN (RE: STRUCTURAL)
0610.32	HEAVY TIMBER BEAM (RE: STRUCTURAL)
0620.02	1X HARDWOOD TRIM
0640.09	1/2" PLYWOOD
0790.02	SEALANT
0790.11	CEILING EXPANSION JOINT COVER - "CONSTRUCTION SPECIALITIES FCF" OR ARCHITECT-APPROVED EQUAL
0840.01	ALUMINUM STOREFRONT
0920.02	2-1/2" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C. MAXIMUM
0920.04	3-5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C. MAXIMUM
0920.08	STUD BRACE AT 4'-0" O.C. MAXIMUM
0920.28	5/8" GYPSUM BOARD (TYPE X)
0920.31	1/2" GYPSUM BOARD (TYPE X)
0920.35	CORNER BEAD, TYPICAL
0950.01	SUSPENDED ACOUSTICAL LAY-IN CEILING
0950.03	TONGUE AND GROOVE WOOD CEILING
0950.09	CEILING GRID SUSPENSION SYSTEM
1220.05	MOTORIZED WINDOW SHADE
2620.01	CONDUIT (RE: ELECTRICAL)
2620.03	ELECTRICAL JUNCTION BOX (RE: ELECTRICAL)
2620.21	CORD REEL (RE: ELECTRICAL)
2650.23	CEILING-WASHING COVE LIGHT FIXTURE (RE: ELECTRICAL)

RCP LEGEND

PATTERN	DESCRIPTION
	CEILINGS
	AC / AC1 ACOUSTICAL CEILING / ACOUSTICAL CEILING PANEL DUNE 1775, ANGLED TEGULAR 24" X 24" X 3/4" COLOR: WHITE
	WD / WD5 WOOD CEILING / TONGUE AND GROOVE WOOD BOARD CEILING SYSTEM STAIN: TO BE SELECTED BY ARCHITECT
	GYPSUM BOARD ON METAL SUPPORT SYSTEM RE: A7.1 FINISH LEGEND FOR PAINT COLOR
	CEILING FIXTURES AND EQUIPMENT RE: ELECTRICAL LIGHT FIXTURE SCHEDULE
	ACOUSTICAL SUSPENDED BAFFLE SIZE AS INDICATED IN DRAWINGS
	SUSPENDED BAFFLE INDIRECT LIGHT SIZE AS INDICATED IN DRAWINGS
	SUSPENDED LIGHT FIXTURE
	COVE-MOUNTED WALL WASHER FIXTURE
	WT / WT1 WINDOW TREATMENT / MANUAL ROLLER SHADE B.O.D.: MECHOSHADE - MECHO/7 COLOR: PORCELAIN 0911
	RECESSED LIGHT FIXTURE
	PENDANT LIGHT FIXTURE
	LAY-IN LIGHT FIXTURE RE: ELECTRICAL
	SUPPLY AIR GRILLE RE: MECHANICAL
	LINEAR SUPPLY AIR GRILLE RE: MECHANICAL
	EXHAUST AIR GRILLE RE: MECHANICAL
	RETURN AIR GRILLE RE: MECHANICAL
	ACCESS PANEL
	ILLUMINATED EXIT SIGN RE: ELECTRICAL

ISSUE FOR PROPOSALS

REGISTERED ARCHITECT
ANNE HILDEBRAN
18243
STATE OF TEXAS
1/20/2026

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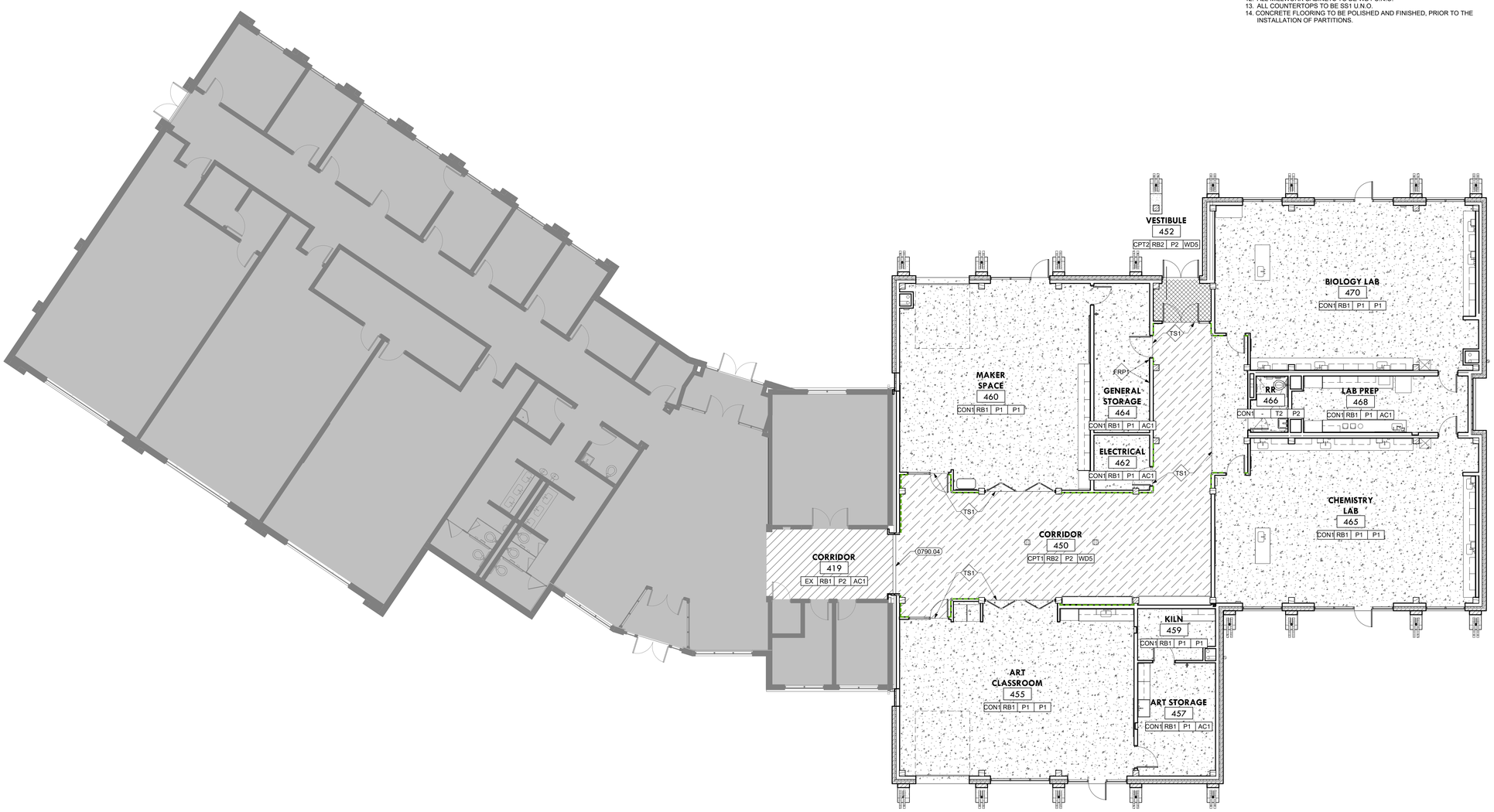
DATE	JANUARY 20, 2026
DRAWN BY	MCR, JCP
CHECKED BY	RVH, AIH
BRW PROJECT NUMBER	225057.00

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ARTS & SCIENCES ADDITION
2400 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

A6.2

CEILING DETAILS



KEYNOTES

0790.04 METAL FLOOR EXPANSION JOINT COVER - "CONSTRUCTION SPECIALTIES PC2G-100" OR ARCHITECT-APPROVED EQUAL

FINISH NOTES

1. PROVIDE FLOOR LEVELING COMPOUND UNDER FINISH FLOORING AS REQUIRED TO PROVIDE LEVEL AND CONSISTENT SURFACE.
2. PROVIDE CONTROL JOINTS AT CONCRETE SLAB, AS REQUIRED PER SPECIFICATIONS AND AS SHOWN ON FINISH PLAN.
3. PROVIDE TRANSITION STRIPS BETWEEN FINISH MATERIALS AS INDICATED IN TYPICAL DETAILS.
4. LINE OF TRANSITION FROM POLISHED OR COLORED CONCRETE TO SEALED CONCRETE SHALL BE A STRAIGHT SAWCUT JOINT. LOCATE JOINTS AT DOORS SO THAT SEALED CONCRETE IS NOT VISIBLE FROM THE DIAMOND POLISHED CONCRETE SIDE OF DOOR, TYP.
5. PROTECT FLOOR FINISHES DURING CONSTRUCTION PER SPECIFICATIONS.
6. ALL PAINT COLOR TRANSITIONS TO OCCUR AT INSIDE CORNERS U.N.O.
7. WALLCOVERING SHALL BE CONTINUOUS BEHIND COUNTERTOPS, CHAIR RAILS, ETC. SEAMS SHALL BE TIGHT, NEAT, AND NOT LESS THAN 12" FROM CORNERS. DO NOT END WALLCOVERING AT AN OUTSIDE CORNER.
8. FIELD VERIFY EXISTING CONDITIONS PRIOR TO INSTALLATION OF FINISH MATERIALS. REPAIR, REFINISH, AND PREPARE AS APPLICABLE ALL EXISTING SURFACES TO RECEIVE NEW MATERIALS INCLUDING, BUT NOT LIMITED TO FLOORING, BASE, BUILDING PARTITIONS, FLOOR SLAB, CEILING, AND RELATED ITEMS U.N.O.
9. DO NOT PAINT EXPOSED MASONRY U.N.O.
10. ALL WALLS TO BE P1 U.N.O.
11. ALL GYPSUM BOARD CEILINGS TO BE P3 U.N.O.
12. ALL MILLWORK CABINETS TO BE WD1 U.N.O.
13. ALL COUNTERTOPS TO BE SS1 U.N.O.
14. CONCRETE FLOORING TO BE POLISHED AND FINISHED, PRIOR TO THE INSTALLATION OF PARTITIONS.

FINISH LEGEND

XX XX XX XX
- CEILING FINISH
- WALL FINISH
- BASE FINISH
- FLOOR FINISH

X → ACCENT FINISH KEY

PATTERN	DESCRIPTION
	AB **ACOUSTIC BAFFLE** **AB1** **FOCAL POINT** COLOR: NATURAL LINEN (NTL)
	AC **ACOUSTIC CEILING TILE** **AC1** **ARMSTRONG** DUNE 1775, ANGLED TEGULAR 24" X 24" X 3/4" COLOR: WHITE
	CON **CONCRETE** **CON1** **POLISHED CONCRETE** SEE NOTE #14
	CPT **CARPET** **CPT1** **CARPET TILE** SHAW, HAND STITCH TILE, 9" X 36" COLOR: VINTAGE GOLD 16762
	CPT2 **WALK-OFF CARPET** SHAW COLOR: BONJOUR II
	FRP **FIBER REINFORCED PANELING** **FRP1** FIBER REINFORCED PLASTIC PANEL CRANE COMPOSITES COLOR: SILVER 66 FINISH: PEBBLED EMBOSSED
	WD **WOOD** **WD1** **WOOD DOORS, MILLWORK, & TRIM** WHITE OAK, RIFT CUT STAIN TO MATCH: LOC SCIENTIFIC COLOR: #826 TOASTED ALMOND OAK
	WD2 **HARDWOOD VENEER CASEWORK** STAIN TO MATCH: LOC SCIENTIFIC WHITE OAK, RIFT CUT COLOR: #825 NEW ENGLAND OAK
	WD3 **HARDWOOD VENEER CASEWORK - SCIENTIFIC** LOC SCIENTIFIC - SCIENTIFIC GRADE WHITE OAK, RIFT CUT COLOR: #825 NEW ENGLAND OAK
	WD4 **STRUCTURE** STAIN AND SEAL TO MATCH: LOC SCIENTIFIC WHITE OAK, RIFT CUT COLOR: #826 TOASTED ALMOND OAK
	WD5 **TONGUE AND GROOVE WOOD BOARD CEILING SYSTEM** STAIN: TO BE SELECTED BY ARCHITECT
	EX **EXISTING FINISHES TO REMAIN** **EX1** **EXISTING SEALED CONCRETE**
	P **PAINT** **P1** **CLASSROOM FIELD: WALL** SHERWIN WILLIAMS COLOR: 6252 ICE CUBE, EGGSHELL FINISH
	P2 **CORRIDOR FIELD: WALL** BENJAMIN MOORE COLOR: SOFT CHAMOIS, EGGSHELL FINISH
	P3 **CORRIDOR FIELD: CEILING** BENJAMIN MOORE COLOR: WHITE DOVE, EGGSHELL FINISH
	P4 **DOOR FRAME** BENJAMIN MOORE COLOR: MINK, SEMI-GLOSS
	P5 **METAL CABINETS** AIR MASTER SYSTEMS PETAL WHITE
	P6 **STOREFRONT FRAME** BASIS OF DESIGN COLOR: TO MATCH EXISTING
	PL **PLASTIC LAMINATE CASEWORK** **PL1** **PLASTIC LAMINATE (ALT. 1)** WILSONART TRACELESS COLOR: TO BE DETERMINED BY ARCHITECT
	Q **QUARTZ** **Q1** **QUARTZ AGGLOMERATE COUNTERTOP** CAESARSTONE COLOR: 6600 NOUGAT
	RB **RESILIENT BASE** **RB1** **RESILIENT BASE** JOHNSONITE, 4" COVE COLOR: EITHER ORE
	RB2 **RESILIENT BASE** JOHNSONITE, 6" COVE COLOR: EITHER ORE
	SST **SOLID SURFACING** **SST1** **SOLID SURFACE COUNTERTOP** DURCON COLOR: BLACK ONYX
	T **CERAMIC TILE** **T1** **WALL ACCENT TILE** DALTILE, REMEDY LINE 2.5" X 9", ASHLAR COLOR: HYDRA
	T2 **WALL FIELD TILE** DALTILE, PERPETUO LINE 24" X 24", STACKED COLOR: ELEGANT BEIGE, POLISHED
	TB **TACKBOARDS** **TB1** **BULLETIN BOARD** FORBO COLOR: OYSTER SHELL
	TS **TRANSITION STRIP** **TS1** **METAL TRANSITION STRIP**
	TX **TEXTILE** **TX1** UPHOLSTERY MOMENTUM TEXTILES MARATHON C-ZERO COLOR: LANTERN
	WC **WALL COVERING** **WC1** **WALL PROTECTION** ACROVYN BY DESIGN (OR ARCHITECT-APPROVED EQUAL) PATTERN: COARSE WEAVE COLOR: GRAY GOOSE #14121
	WC2 **MAGNETIC MARKABLE WALL COVERING** KOROSEAL WALLTALKERS MAG-RITE II COLOR: WHITE
	WT **WINDOW TREATMENT** **WT1** **WINDOW SHADE** MECHOSHADE COLOR: PORCELAIN 0911

PLAN NORTH / TRUE NORTH

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

ISSUE FOR PROPOSALS

REGISTERED ARCHITECT · ANNE HILDEBRAND · 18243 · STATE OF TEXAS
1/20/2026

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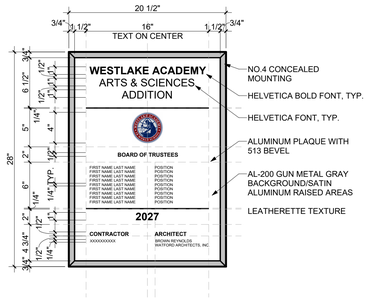
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CHECKED BY	RVH, AIH
BRW PROJECT NUMBER	225057.00

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WESTLAKE, TX 76262

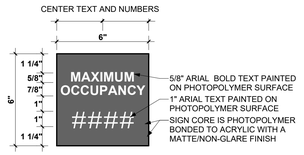
NO.	REVISION	DATE

A7.1
FINISH PLAN



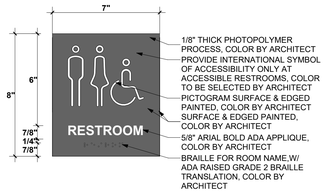
5 ELEVATION - TYPE E

1 1/2" = 1'-0"



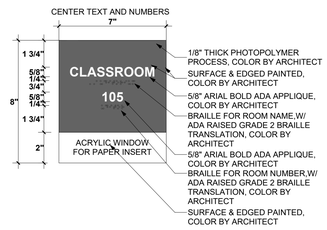
4 ELEVATION - TYPE D

3" = 1'-0"



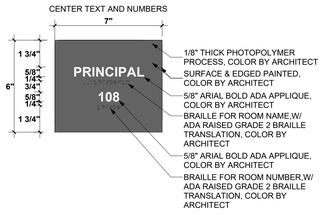
3 ELEVATION - TYPE C

3" = 1'-0"



2 ELEVATION - TYPE B

3" = 1'-0"



1 ELEVATION - TYPE A

3" = 1'-0"

SIGNAGE LEGEND

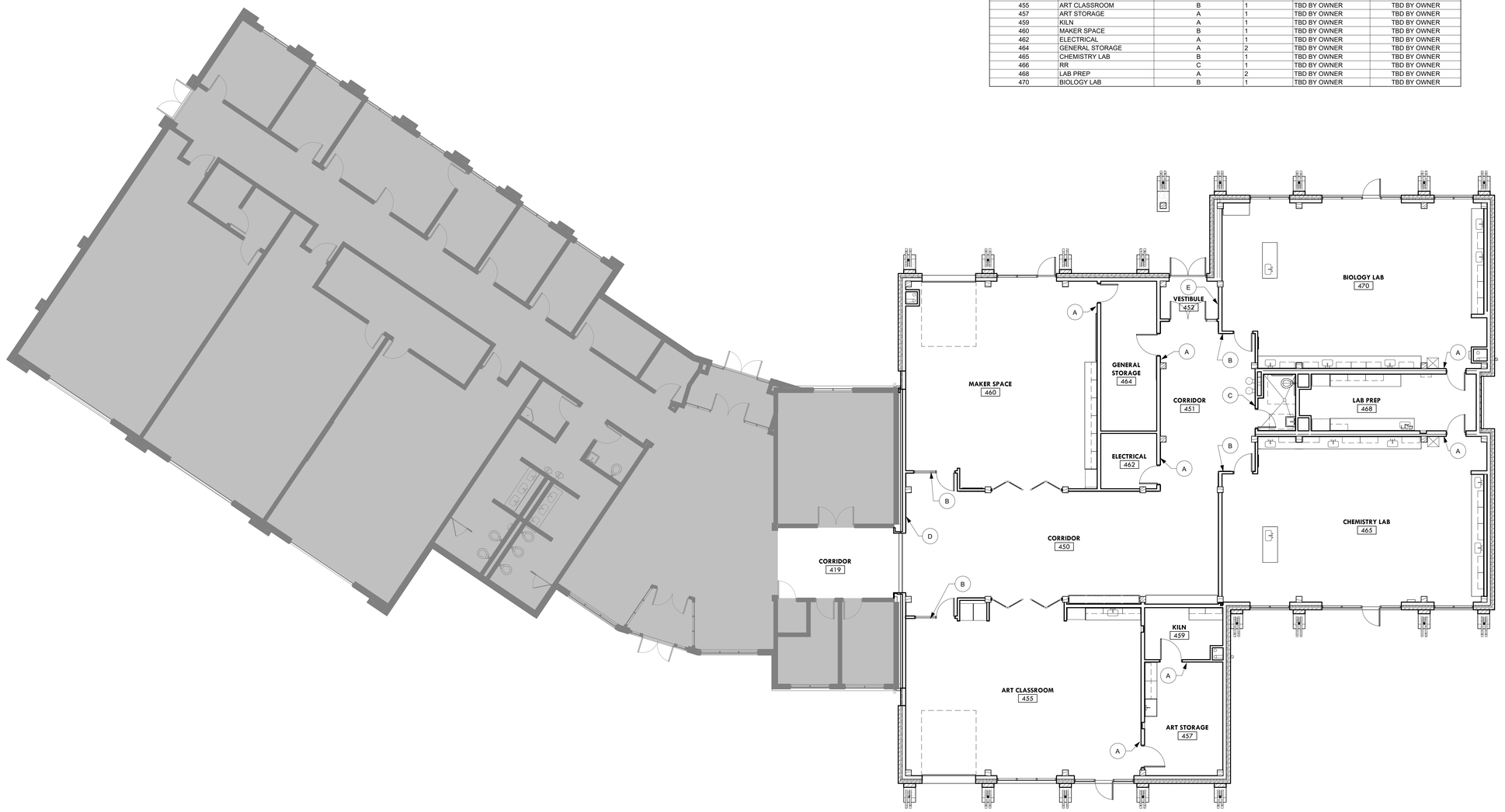
X — SIGN TYPE

SIGNAGE NOTES

1. ALL ROOM NAMES PROVIDED ON ARCHITECTURAL SHEETS ARE FOR CONTRACTOR COORDINATION ONLY.
2. VERIFY EXACT ROOM, DOOR NUMBERS, AND ROOM NAMES WITH OWNER PRIOR TO FABRICATING ANY AND ALL SIGNAGE.
3. RE: A5.0 FOR TYPICAL MOUNTING HEIGHTS.

ROOM SIGNAGE SCHEDULE

PLAN NUMBER	PLAN NAME	SIGN TYPE	QTY.	SIGN MESSAGE	SIGN NUMBER
455	ART CLASSROOM	B	1	TBD BY OWNER	TBD BY OWNER
457	ART STORAGE	A	1	TBD BY OWNER	TBD BY OWNER
459	KILN	A	1	TBD BY OWNER	TBD BY OWNER
460	MAKER SPACE	B	1	TBD BY OWNER	TBD BY OWNER
462	ELECTRICAL	A	1	TBD BY OWNER	TBD BY OWNER
464	GENERAL STORAGE	A	2	TBD BY OWNER	TBD BY OWNER
465	CHEMISTRY LAB	B	1	TBD BY OWNER	TBD BY OWNER
466	RR	C	1	TBD BY OWNER	TBD BY OWNER
468	LAB PREP	A	2	TBD BY OWNER	TBD BY OWNER
470	BIOLOGY LAB	B	1	TBD BY OWNER	TBD BY OWNER



PLAN NORTH / TRUE NORTH

6 SIGNAGE PLAN

1/8" = 1'-0"

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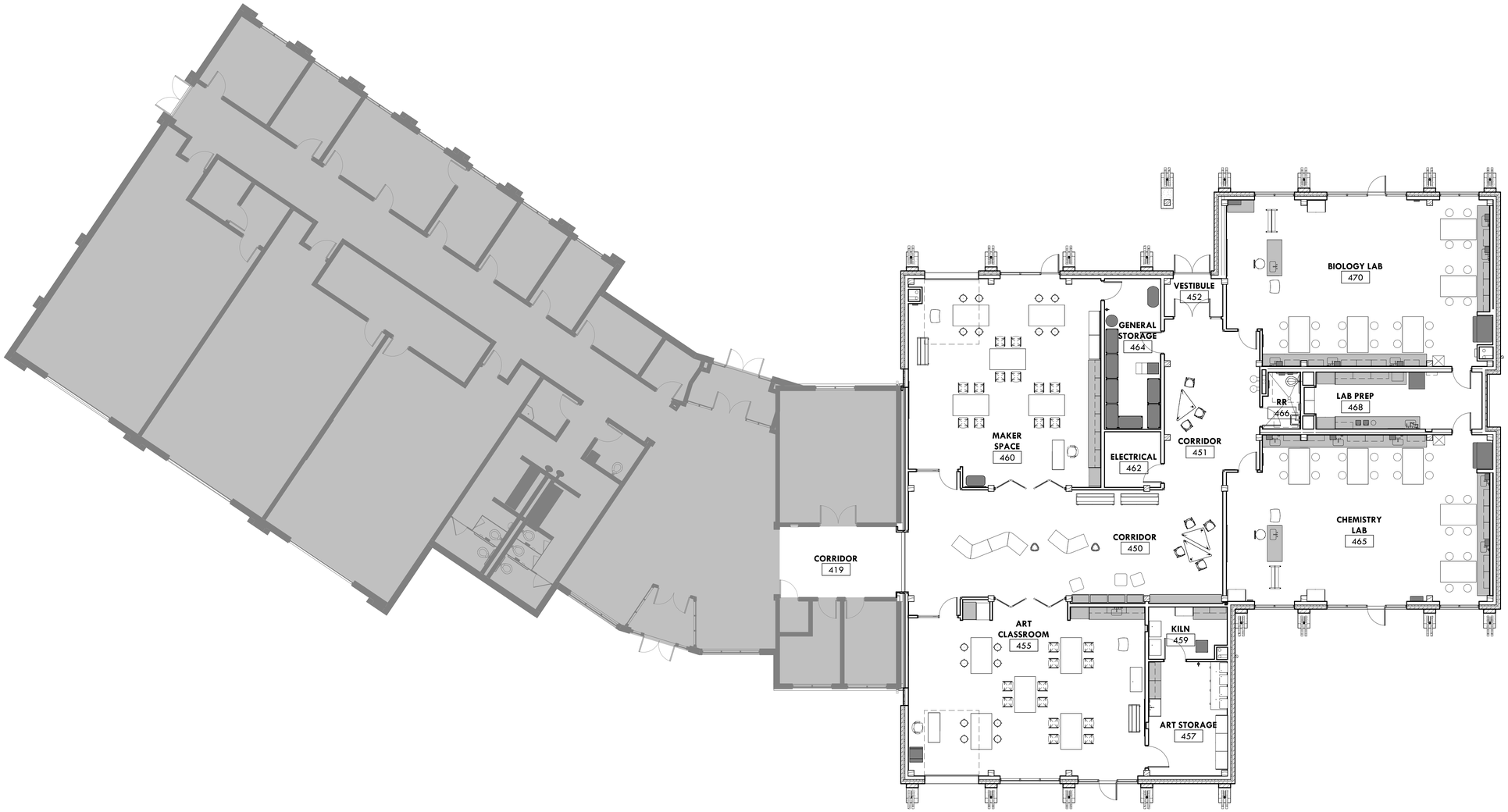
A8.1

SIGNAGE PLAN

FURNITURE PLAN LEGEND

- CASEWORK - IN CONTRACT
- FIXTURES AND EQUIPMENT - IN CONTRACT
- FURNITURE - NOT IN CONTRACT

*FURNITURE SHOWN IS FOR INFORMATION ONLY, (N.I.C)



PLAN NORTH
TRUE NORTH

1 FURNISHING CONCEPT - FOR INFORMATION ONLY
1/8" = 1'-0"

ISSUE FOR PROPOSALS

REGISTERED ARCHITECT
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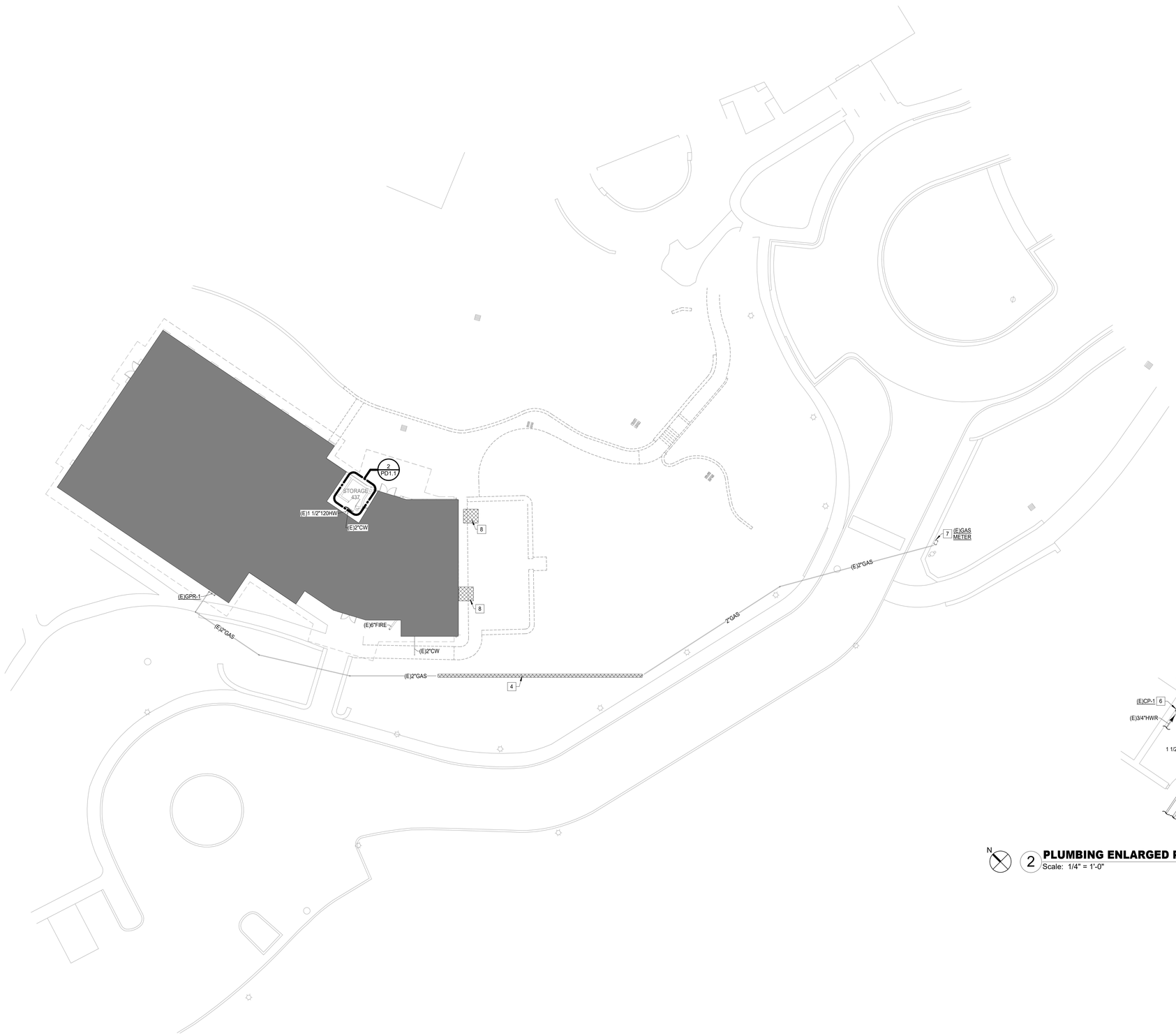
A10.1
FURNISHING CONCEPT (FOR INFORMATION ONLY)

PLUMBING GENERAL NOTES

1. ALL WORK, METHODS, AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2. THIS CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH PLUMBING AND ELECTRICAL CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
3. ALL SANITARY PIPING 3" AND LARGER SHALL BE ROUTED AT 1/8" SLOPE PER FOOT UNLESS OTHERWISE NOTED. ALL PIPE LESS THAN 3" SHALL BE ROUTED AT 1/4" SLOPE PER FOOT.
4. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK, AND CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATIVE PIPING PLAN.
5. CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
6. SANITARY VENT TERMINALS THROUGH ROOF SHALL BE NO LESS THAN 10'-0" FROM ANY FRESH AIR INTAKES.
7. CONTRACTOR SHALL COORDINATE ALL WORK IN OPEN CEILINGS AND AROUND CLOUDS TO NEATLY RUN CONDUITS, DUCTWORK, AND PIPING.

PLUMBING KEYED NOTES

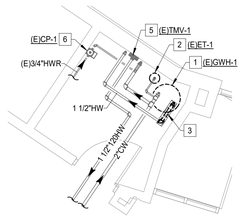
1	EXISTING WATER HEATER TO BE DEMOLISHED AND REMOVED. CAP EXISTING DOMESTIC COLD WATER CONNECTION TO WATER HEATER FOR FUTURE FIXTURE INSTALLATION. DEMOLISH AND REMOVE EXISTING DOMESTIC HOT WATER CONNECTION TO WATER HEATER, TO BE REPLACED WITH A NEW AND LARGER DOMESTIC HOT WATER CONNECTION.
2	EXISTING EXPANSION TANK TO BE DEMOLISHED AND REMOVED. CAP EXISTING DOMESTIC WATER COLD WATER CONNECTION TO EXPANSION TANK FOR FUTURE FIXTURE INSTALLATION.
3	EXISTING DOMESTIC HOT WATER PIPING IN HATCHED AREA TO BE DEMOLISHED AND REMOVED, TO BE REPLACED WITH NEW AND LARGER DOMESTIC HOT WATER PIPING.
4	EXISTING SUBSOIL GAS PIPING ON SITE TO BE DEMOLISHED AND REMOVED IN HATCHED AREA. CONTRACTOR TO COORDINATE WITH ATMOS ENERGY PRIOR TO CONSTRUCTION.
5	EXISTING THERMOSTATIC MIXING VALVE TO REMAIN. PROTECT DURING CONSTRUCTION.
6	EXISTING CIRCULATION PUMP TO REMAIN. PROTECT DURING CONSTRUCTION.
7	EXISTING GAS METER TO BE DEMOLISHED AND REMOVED. CAP GAS PIPING FOR FUTURE METER INSTALLATION. CONTRACTOR TO COORDINATE WITH ATMOS ENERGY.
8	CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING EXTERIOR CLEANOUTS (IF ANY) IN THIS AREA. IF CLEANOUTS ARE PRESENT, SNAKE THOSE LINES TO DETERMINE WHERE AND WHAT THEY SERVE. CAP BELOW GRADE AND ABANDON IN PLACE IF NOT REQUIRED. NOTIFY ENGINEER OF RECORD IF CLEANOUTS ARE PRESENT AND PROVIDE ROUTING INFORMATION FOR FURTHER INFORMATION.



N

1 PLUMBING PLAN - LEVEL 1 - DEMO

Scale: 1/16" = 1'-0"



N

2 PLUMBING ENLARGED PLAN - EXISTING MECHANICAL ROOM - DEMO

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

ISSUE FOR PROPOSALS

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KEITH W. GASSMAN
89636
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01/20/2026

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salasobrien.com
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972-812-1270
Registration: F-41111
Project No: 2650-01466

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NO.	REVISION	DATE

PD1.1

OVERALL - PLUMBING PLAN - LEVEL 1 - DEMO

GAS PRESSURE REGULATOR SCHEDULE

MARK	BASIS OF DESIGN		INLET PPRESSURE (psi)	OUTLET PRESSURE (oz.)	CFH	SERVICES
	MANUFACTURER	MODEL				
GPR-1	AMERICAN METER	1800C	2.0	8	770	NEW ADDITION - ROOFTOP UNITS, SCIENCE LABS

GAS EQUIPMENT SCHEDULE

EQUIPMENT NUMBER	DESCRIPTION	BTU PER HOUR LOAD	TOTAL BTU PER HOUR	TOTAL CFH
RTUS	SPACE HEATING	VARIES	630,000 BTUH	630 CFH
G	GAS TURRENTS (X28)	5,000 BTUH	140,000 BTUH	140 CFH
TOTALS (ADDITION TO SYSTEM):			770,000 BTUH	770 CFH
GWH - 1	GAS WATER HEATER	199,900 BTUH	199,900 BTUH	200 CFH
TOTALS (TIE INTO EXISTING SYSTEM):			199,900 BTUH	200 CFH

PLUMBING KEYED NOTES

1	STORM PIPING OUT TO SITE. REFER TO CIVIL FOR CONTINUATION.
2	DOWNSPOUT SHOE CONNECTION LOCATION. REFER TO CIVIL ENGINEER'S DRAWINGS FOR CONTINUATION.
3	SANITARY PIPING OUT TO SITE. REFER TO CIVIL FOR CONTINUTAION.
4	CONNECT TO EXISTING DOWNSPOUT WITH DOWNSPOUT SHOE CONNECTION. REFER TO CIVIL ENGINEER'S DRAWINGS FOR CONTINUATION.
5	CONNECT NEW GAS LINE TO EXISTING GAS LINE ON SITE. COORDINATE WITH ATMOS ENERGY FOR CONNECTION REQUIREMENTS AND TIE-IN LOCATIONS PRIOR TO CONSTRUCTION.
6	NEW GAS METER TO BE INSTALLED IN THE SAME LOCATION AS THE PREVIOUS GAS METER. CONNECT NEW GAS METER TO EXISTING GAS LINE ON SITE. COORDINATE WITH ATMOS ENERGY FOR INSTALLATION REQUIREMENTS AND PIPE ROUTING/CONNECTIONS PRIOR TO CONSTRUCTION.
7	CONTRACTOR TO COORDINATE ACID NEUTRALIZATION TANK ALARM PANEL WITH ELECTRICAL CONTRACTOR PRIOR TO CONSTRUCTION. ALARM PANEL TO BE LOCATED IN PREP ROOM 519.

GAS COMPANY CONTACTS

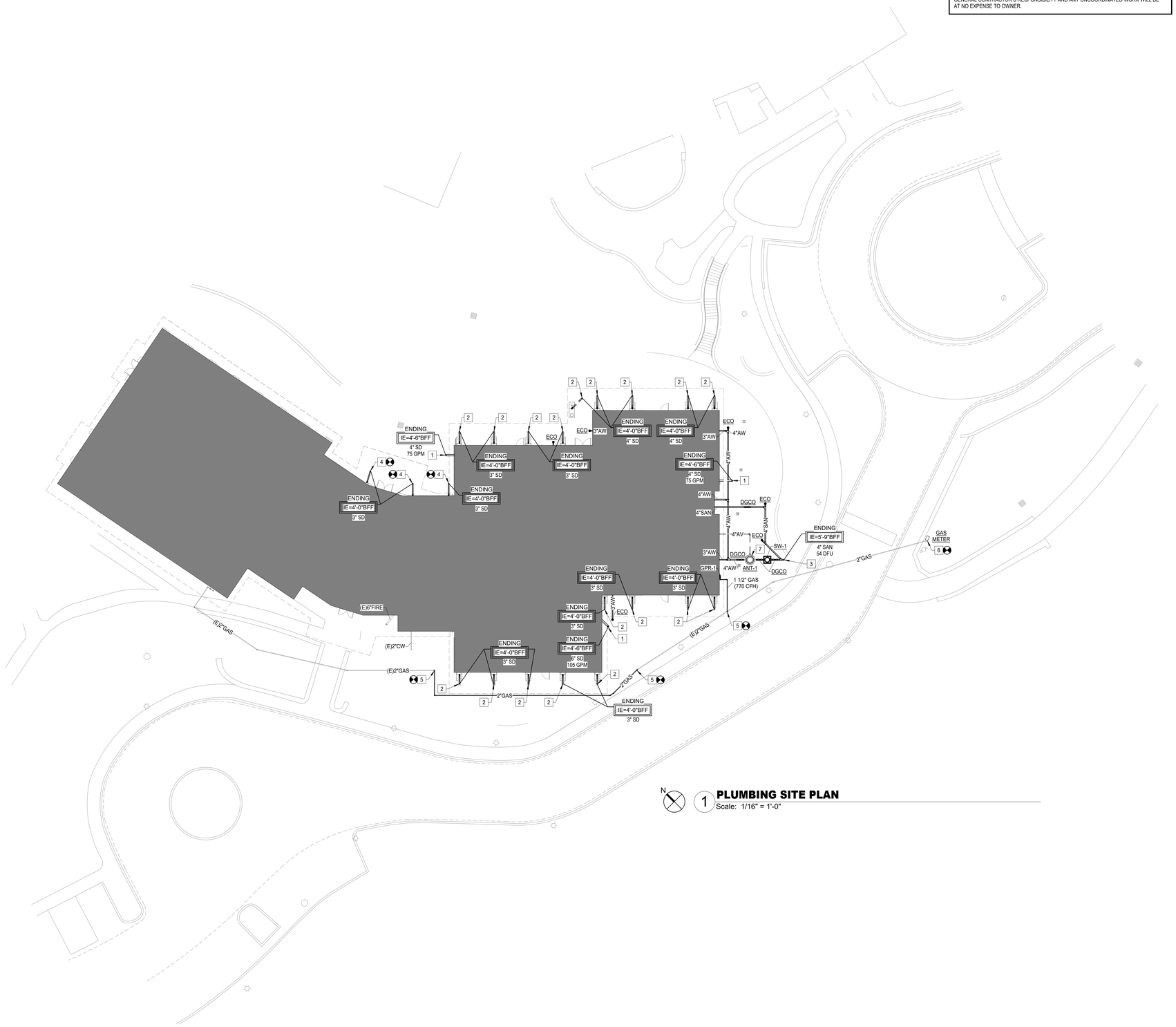
GAS COMPANY - ATMOS ENERGY
BOBBY ONEY
BOBBY.ONEY@ATMOSENERGY.COM
PHONE #214-549-7144

CONTRACTOR MUST COORDINATE WITH UTILITY REPRESENTATIVE PRIOR TO INSTALLING UTILITIES. CONTRACTOR SHALL SET UP MEETINGS WITH EACH UTILITY REPRESENTATIVE TWO WEEKS BEFORE UTILITIES ARE TO BE INSTALLED.

UTILITY COORDINATION NOTE:
INITIAL UTILITY GAS SOURCE COORDINATION HAS BEEN COMPLETED BY SALAS O'BRIEN. DURING BID, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL THE REQUIRED LABOR & MATERIALS THAT ARE NOT INCLUDED IN THE GAS UTILITY COMPANY'S SCOPE OF WORK. FINAL UTILITY GAS COORDINATION WILL BE FULLY THE GENERAL CONTRACTOR'S RESPONSIBILITY AND ANY UNCOORDINATED WORK WILL BE AT NO EXPENSE TO OWNER.

PLUMBING GENERAL NOTES

1. ALL WORK, METHODS, AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2. THIS CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH PLUMBING AND ELECTRICAL CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
3. ALL SANITARY PIPING 3" AND LARGER SHALL BE ROUTED AT 1/8" SLOPE PER FOOT UNLESS OTHERWISE NOTED. ALL PIPE LESS THAN 3" SHALL BE ROUTED AT 1/4" SLOPE PER FOOT.
4. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK, AND CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATIVE PIPING PLAN.
5. CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
6. SANITARY VENT TERMINALS THROUGH ROOF SHALL BE NO LESS THAN 10'-0" FROM ANY FRESH AIR INTAKES.
7. CONTRACTOR SHALL COORDINATE ALL WORK IN OPEN CEILINGS AND AROUND CLOUDS TO NEATLY RUN CONDUITS, DUCTWORK, AND PIPING.



N

1 **PLUMBING SITE PLAN**
Scale: 1/16" = 1'-0"

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STATE OF TEXAS
KEITH W. GASSMAN
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REGISTERED
01/20/2026

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Irving, TX 75062
Registration: F-41111
Project No: 2650-01468

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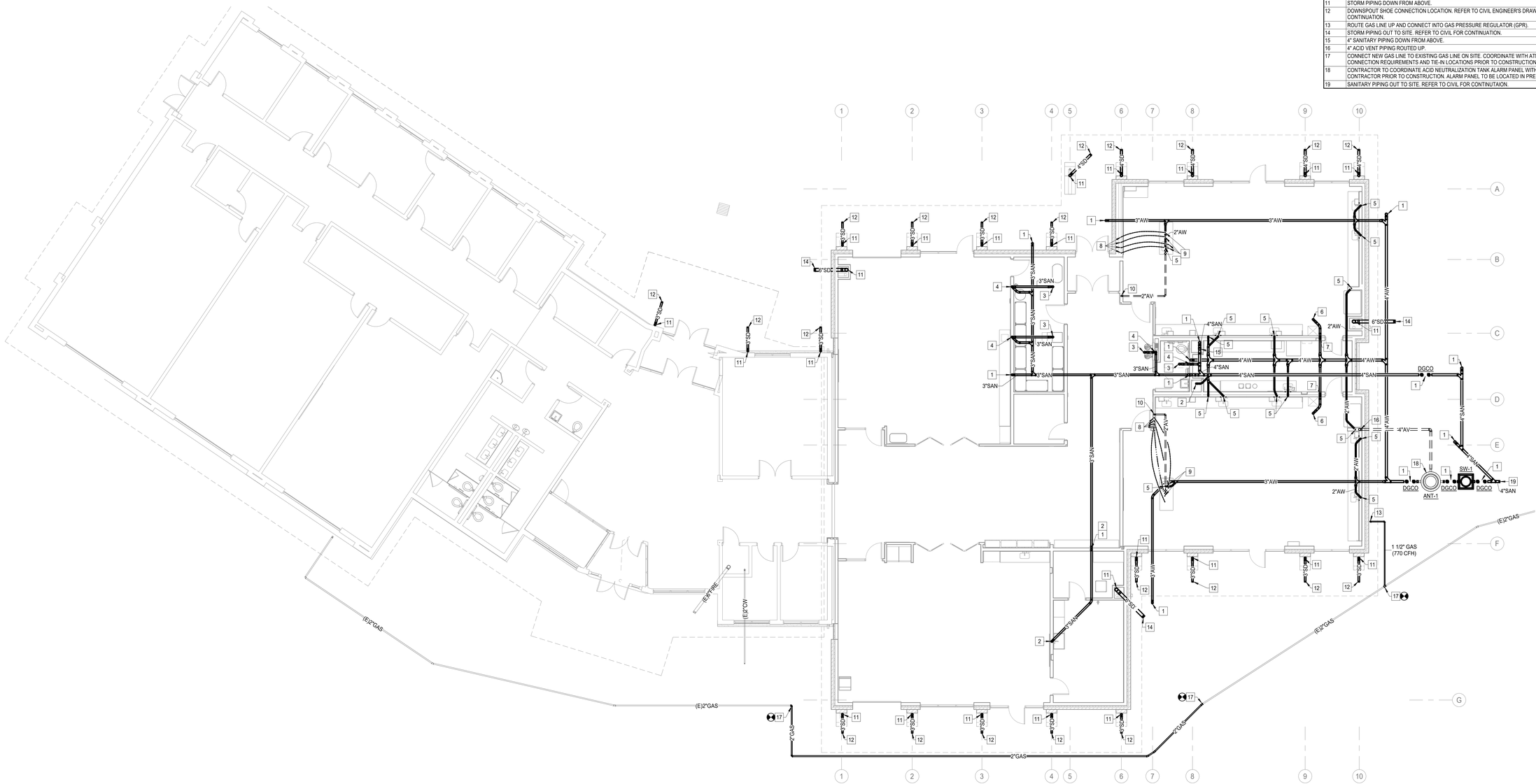
P1.0
PLUMBING SITE PLAN

PLUMBING GENERAL NOTES

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PLUMBING KEYED NOTES

1	FULL SIZE LINE DOWN FROM CLEANOUT (MAXIMUM OF 4")
2	2" SANITARY PIPING DOWN FROM ABOVE.
3	3" SANITARY PIPING DOWN FROM ABOVE.
4	3" SANITARY PIPING ROUTED DOWN. 2" VENT PIPING ROUTED UP.
5	2" ACID WASTE PIPING DOWN FROM ABOVE.
6	3" ACID WASTE PIPING DOWN FROM ABOVE.
7	3" ACID WASTE PIPING ROUTED DOWN. 2" VENT PIPING ROUTED UP.
8	3/4" GAS, 3/4" HOT WATER, 3/4" COLD WATER AND 3/4" COMPRESSED AIR DOWN FROM ABOVE. ROUTE BELOW GRADE AND STUB UP TO SERVE LAB INSTRUCTOR'S SINK.
9	3/4" GAS, 3/4" HOT WATER, 3/4" COLD WATER, 3/4" COMPRESSED AIR ROUTED UP TO SERVE LAB INSTRUCTOR'S SINK.
10	2" VENT PIPING ROUTED UP.
11	STORM PIPING DOWN FROM ABOVE.
12	DOWNSPOUT SHOE CONNECTION LOCATION. REFER TO CIVIL ENGINEER'S DRAWINGS FOR CONTINUATION.
13	ROUTE GAS LINE UP AND CONNECT INTO GAS PRESSURE REGULATOR (GPR).
14	STORM PIPING OUT TO SITE. REFER TO CIVIL FOR CONTINUATION.
15	4" SANITARY PIPING DOWN FROM ABOVE.
16	4" ACID VENT PIPING ROUTED UP.
17	CONNECT NEW GAS LINE TO EXISTING GAS LINE ON SITE. COORDINATE WITH ATMOS ENERGY FOR CONNECTION REQUIREMENTS AND TIE-IN LOCATIONS PRIOR TO CONSTRUCTION.
18	CONTRACTOR TO COORDINATE ACID NEUTRALIZATION TANK ALARM PANEL WITH ELECTRICAL CONTRACTOR PRIOR TO CONSTRUCTION. ALARM PANEL TO BE LOCATED IN PREP ROOM 519.
19	SANITARY PIPING OUT TO SITE. REFER TO CIVIL FOR CONTINUTAION.



N

1 **PLUMBING UNDERFLOOR PLAN**
Scale: 1/8" = 1'-0"

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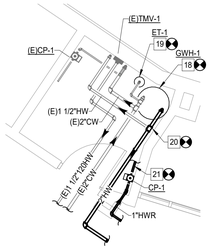
P2.0
OVERALL - PLUMBING PLAN - UNDERFLOOR

PLUMBING GENERAL NOTES

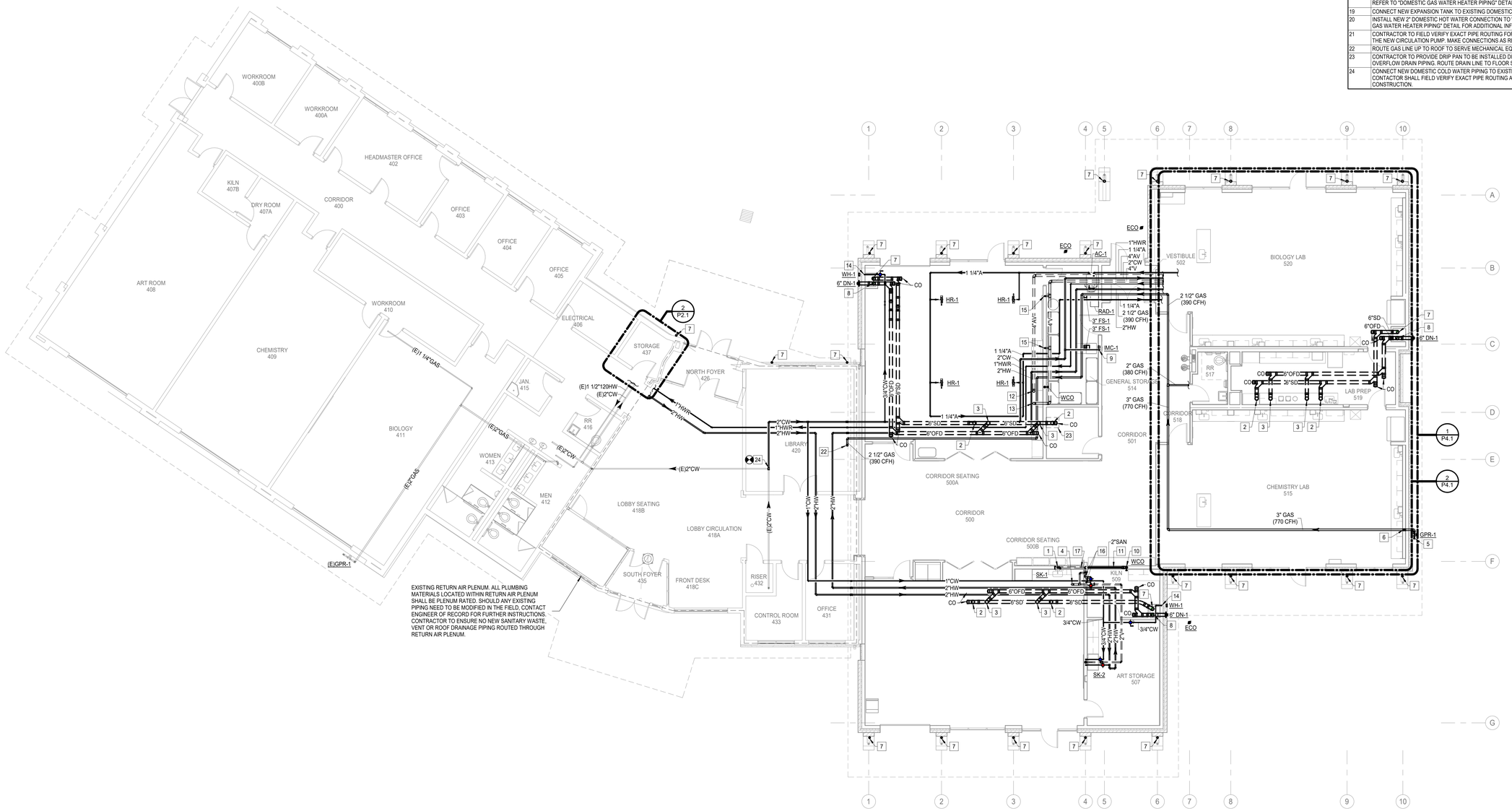
1. ALL WORK, METHODS, AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2. THIS CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH PLUMBING AND ELECTRICAL CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
3. ALL SANITARY PIPING 3" AND LARGER SHALL BE ROUTED AT 1/8" SLOPE PER FOOT UNLESS OTHERWISE NOTED. ALL PIPE LESS THAN 3" SHALL BE ROUTED AT 1/4" SLOPE PER FOOT.
4. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK, AND CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATIVE PIPING PLAN.
5. CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
6. SANITARY VENT TERMINALS THROUGH ROOF SHALL BE NO LESS THAN 10'-0" FROM ANY FRESH AIR INTAKES.
7. CONTRACTOR SHALL COORDINATE ALL WORK IN OPEN CEILINGS AND AROUND CLOUDS TO NEATLY RUN CONDUITS, DUCTWORK, AND PIPING.

PLUMBING KEYED NOTES

1	3/4" HOT AND COLD WATER ROUTED DOWN TO SERVE PLUMBING FIXTURE(S). 2" VENT ROUTED UP.
2	ROUTE STORM PIPING DOWN FROM ROOF DRAIN.
3	ROUTE STORM PIPING DOWN FROM OVERFLOW DRAIN.
4	3" VENT THROUGH ROOF.
5	ROUTE GAS LINE UP FROM BELOW GRADE.
6	ROUTE GAS LINE UP.
7	ROUTE STORM PIPING BELOW GRADE.
8	ROUTE STORM PIPING DOWN.
9	3/4" COLD WATER ROUTED DOWN TO SERVE PLUMBING FIXTURE(S). 2" VENT ROUTED UP.
10	2" SANITARY PIPING ROUTED DOWN.
11	2" SANITARY PIPING SERVING SINK ROUTED ABOVE GRADE IN WALL TO AVOID STRUCTURE.
12	4" ACID VENT THROUGH ROOF.
13	4" VENT THROUGH ROOF.
14	3/4" COLD WATER ROUTED DOWN TO SERVE WALL HYDRANT.
15	2" VENT PIPING UP FROM BELOW.
16	3/4" HOT AND COLD WATER ROUTED DOWN AND AROUND IN WALL TO SERVE ART CLASSROOM SINK. COORDINATE EXACT PIPE ROUTING WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
17	2" VENT PIPING ROUTED AROUND IN WALL AND UP INTO CEILING SPACE. COORDINATE EXACT PIPE ROUTING WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
18	CONNECT NEW GAS WATER HEATER TO EXISTING DOMESTIC COLD WATER AND EXISTING GAS LINE CAPPED CONNECTION. CONTRACTOR TO FIELD VERIFY LINE SIZE OF EXISTING GAS PIPING SERVING WATER HEATER. IF LESS THAN 1-1/4", REPLACE EXISTING GAS PIPING AS REQUIRED. REFER TO "DOMESTIC GAS WATER HEATER PIPING" DETAIL FOR ADDITIONAL INFORMATION.
19	CONNECT NEW EXPANSION TANK TO EXISTING DOMESTIC COLD WATER CAPPED CONNECTION.
20	INSTALL NEW 2" DOMESTIC HOT WATER CONNECTION TO WATER HEATER. REFER TO "DOMESTIC GAS WATER HEATER PIPING" DETAIL FOR ADDITIONAL INFORMATION.
21	CONTRACTOR TO FIELD VERIFY EXACT PIPE ROUTING FOR THE HOT WATER RETURN PIPING FROM THE NEW CIRCULATION PUMP. MAKE CONNECTIONS AS REQUIRED IN FIELD.
22	ROUTE GAS LINE UP TO ROOF TO SERVE MECHANICAL EQUIPMENT.
23	CONTRACTOR TO PROVIDE DRIP PAN TO BE INSTALLED DIRECTLY BELOW STORM DRAIN AND OVERFLOW DRAIN PIPING. ROUTE DRAIN LINE TO FLOOR SINK IN GENERAL STORAGE 514.
24	CONNECT NEW DOMESTIC COLD WATER PIPING TO EXISTING COLD WATER LINE IN THIS AREA. CONTACTOR SHALL FIELD VERIFY EXACT PIPE ROUTING AND TIE-IN LOCATION PRIOR TO CONSTRUCTION.



N 2 **PLUMBING ENLARGED PLAN - EXISTING MECHANICAL ROOM**
Scale: 1/4" = 1'-0"



EXISTING RETURN AIR PLENUM. ALL PLUMBING MATERIALS LOCATED WITHIN RETURN AIR PLENUM SHALL BE PLENUM RATED. SHOULD ANY EXISTING PIPING NEED TO BE MODIFIED IN THE FIELD, CONTACT ENGINEER OF RECORD FOR FURTHER INSTRUCTIONS. CONTRACTOR TO ENSURE NO NEW SANITARY WASTE, VENT OR ROOF DRAINAGE PIPING ROUTED THROUGH RETURN AIR PLENUM.

N 1 **PLUMBING PLAN - LEVEL 1**
Scale: 1/8" = 1'-0"

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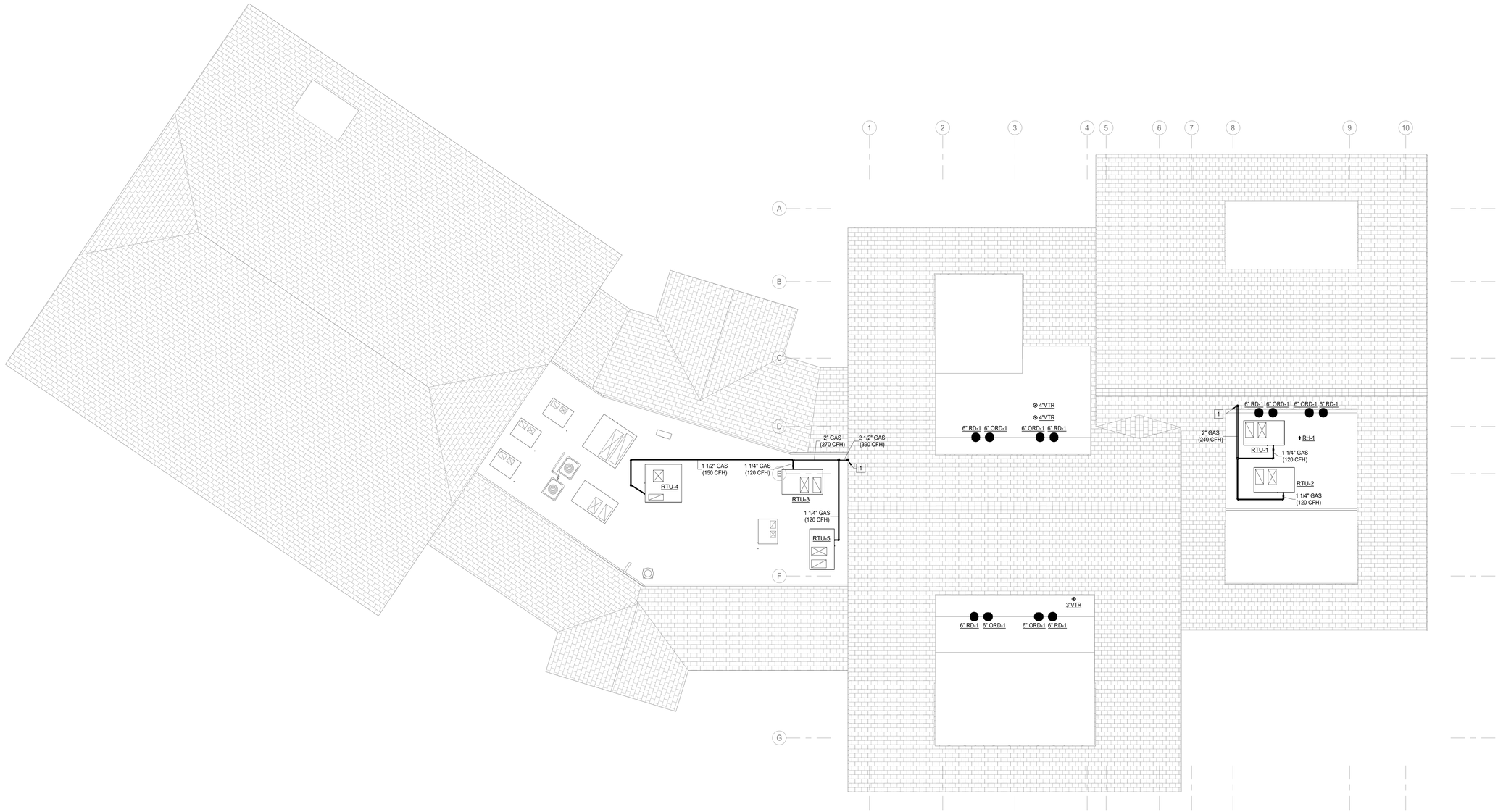
P2.1
OVERALL - PLUMBING PLAN - LEVEL 1

PLUMBING GENERAL NOTES

1. ALL WORK, METHODS, AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
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5. CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
6. SANITARY VENT TERMINALS THROUGH ROOF SHALL BE NO LESS THAN 10'-0" FROM ANY FRESH AIR INTAKES.
7. CONTRACTOR SHALL COORDINATE ALL WORK IN OPEN CEILINGS AND AROUND CLOUDS TO NEATLY RUN CONDUITS, DUCTWORK, AND PIPING.

PLUMBING KEYED NOTES

1	ROUTE GAS LINE UP FROM BELOW.



N

1 **PLUMBING PLAN - ROOF**
Scale: 1/8" = 1'-0"

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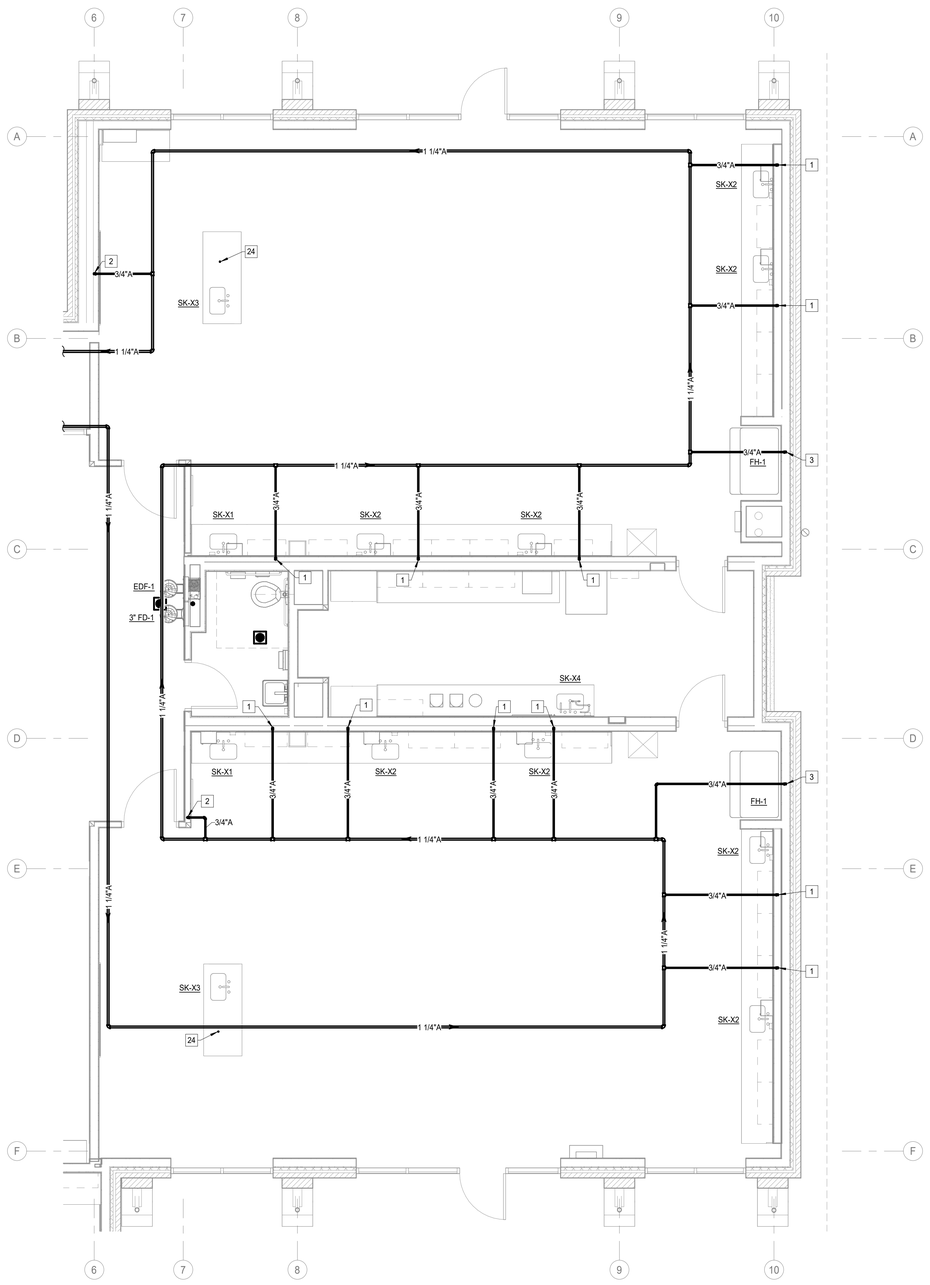
P2.2
OVERALL - PLUMBING PLAN - ROOF

PLUMBING GENERAL NOTES

1. ALL WORK, METHODS, AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2. THIS CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH PLUMBING AND ELECTRICAL CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
3. ALL SANITARY PIPING 3" AND LARGER SHALL BE ROUTED AT 1/8" SLOPE PER FOOT UNLESS OTHERWISE NOTED. ALL PIPE LESS THAN 3" SHALL BE ROUTED AT 1/4" SLOPE PER FOOT.
4. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK, AND CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATIVE PIPING PLAN.
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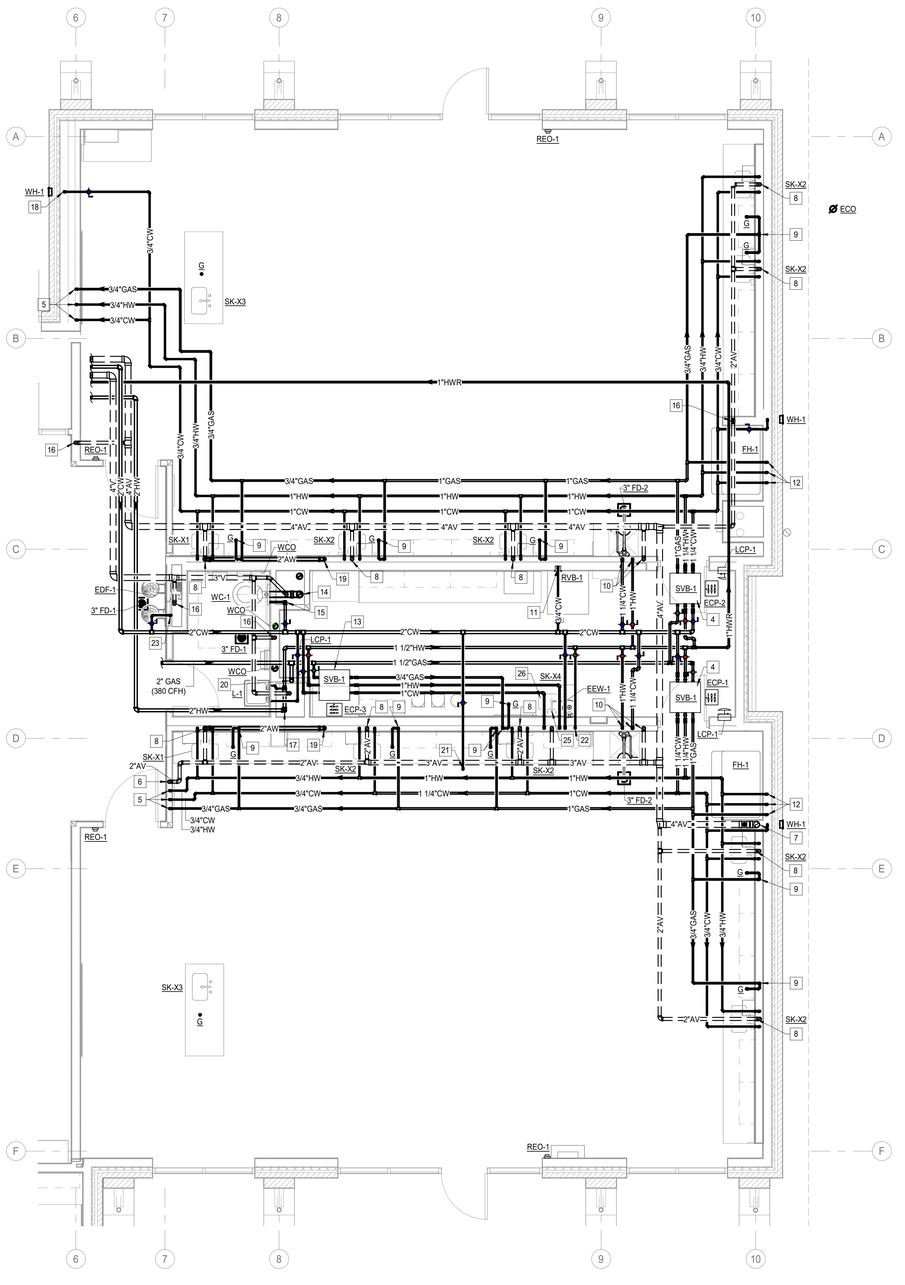
PLUMBING KEYED NOTES

1	3/4" COMPRESSED AIR ROUTED DOWN TO SERVE AIR DROP.
2	3/4" COMPRESSED AIR ROUTED DOWN BELOW SLAB AND ACROSS TO SERVE TEACHER ISLAND SINK.
3	CONNECT 3/4" COMPRESSED AIR PIPING TO FUME HOOD.
4	ROUTE 1-1/4" COLD AND HOT WATER LINES, AND 1" GAS LINE THROUGH SOLENOID VALVE BOX (SVB-1) AND ACROSS TO SERVE SCIENCE/BIOLOGY CLASSROOM PLUMBING FIXTURES AND GAS TURRETS.
5	3/4" HOT WATER, 3/4" COLD WATER, AND 3/4" GAS PIPING ROUTED DOWN BELOW GRADE AND ACROSS TO SERVE TEACHER ISLAND SINK.
6	2" ACID VENT UP FROM BELOW.
7	4" ACID VENT UP FROM BELOW.
8	3/4" HOT AND COLD WATER ROUTED DOWN TO SERVE LAB SINK. 2" ACID VENT PIPING ROUTED UP.
9	3/4" GAS PIPING ROUTED DOWN TO SERVE GAS TURRENT.
10	1-1/4" HOT AND COLD WATER ROUTED DOWN TO SERVE EMERGENCY EYEWASH/SHOWER. 2" ACID VENT PIPING UP FROM BELOW.
11	3/4" COLD WATER ROUTED DOWN TO SERVE PLUMBING FIXTURE(S).
12	CONNECT 3/4" COLD WATER, HOT WATER, AND GAS PIPING TO FUME HOOD. CONNECT 2" ACID WASTE AND ACID VENT PIPING TO FUME HOOD. COORDINATE WITH FIXTURE MANUFACTURER FOR INSTALLATION AND PIPE ROUTING REQUIREMENTS.
13	ROUTE 1" COLD AND HOT WATER LINES, AND 3/4" GAS LINE THROUGH SOLENOID VALVE BOX (SVB-1) AND ACROSS TO SERVE PREP ROOM PLUMBING FIXTURES.
14	4" SANITARY PIPING ROUTED DOWN. 2" VENT PIPING ROUTED UP.
15	1-1/2" COLD WATER ROUTED DOWN TO SERVE PLUMBING FIXTURE(S).
16	2" VENT PIPING UP FROM BELOW.
17	ROUTE HOT WATER BRANCH SUPPLY LINE DOWN WALL AND ACROSS TO SERVE PLUMBING FIXTURES. ROUTE HOT WATER BRANCH RETURN LINE UP AND RECONNECT INTO HOT WATER CIRCULATION TRUNK LINE IN CEILING SPACE.
18	3/4" COLD WATER ROUTED DOWN TO SERVE WALL HYDRANT.
19	ROUTE 2" ACID WASTE PIPING SERVING A.D.A. LAB SINK ACROSS IN WALL AND THEN STUB DOWN BELOW GRADE. COORDINATE EXACT PIPE ROUTING WITH STRUCTURAL ENGINEER.
20	ROUTE GAS LINE UP TO ROOF TO SERVE MECHANICAL EQUIPMENT.
21	3/4" COLD WATER ROUTED UP TO SERVE ROOF HYDRANT.
22	3/4" HOT WATER AND 1" COLD WATER ROUTED DOWN TO SERVE EMERGENCY EYE/FACE WASH.
23	3/4" COLD WATER ROUTED DOWN TO SERVE PLUMBING FIXTURE(S). 2" VENT ROUTED UP.
24	3/4" COMPRESSED AIR UP FROM BELOW SLAB TO SERVE TEACHER ISLAND SINK.
25	1" HOT AND COLD WATER ROUTED DOWN TO SERVE PREP ROOM SINK AND DISHWASHER. EXTEND 1/2" HOT AND COLD WATER TO SERVE PREP ROOM SINK. 2" VENT PIPING ROUTED UP. EXTEND 3/4" COLD WATER AND CONNECT INTO CONTRACTOR PROVIDED DE-IONIZED WATER FILTER INSTALLED UNDER PREP ROOM SINK OR IN ADJACENT CABINET SPACE. EXTEND 3/4" HOT WATER, COLD WATER AND DI WATER TO SERVE DISHWASHER. ROUTE DISHWASHER DISCHAGE TO BRANCH WYE TAILPIECE ON PREP ROOM SINK (REFER TO DISHWASHER CONNECTION DETAIL FOR ADDITIONAL INFORMATION).
26	CONTRACTOR TO PROVIDE REVERSE OSMOSIS WATER FILTER UNDER OR ADJACENT TO PREP ROOM SINK. REFER TO FIXTURE SK-X4 ON THE PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.



2 PLUMBING ENLARGED PLAN - CHEM LAB, LAB PREP, BIO LAB - COMPRESSED AIR

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



1 PLUMBING ENLARGED PLAN - CHEM LAB, LAB PREP, BIO LAB - DOMESTIC WATER, GAS & VENT

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

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P4.1
PLUMBING ENLARGED PLANS

PLUMBING PIPING LEGEND

SYMBOLS	DESCRIPTION
SAN	SANITARY OR WASTE PIPING ABOVE GRADE (SAN)
SAN	SANITARY OR WASTE PIPING BELOW GRADE (SAN)
GW	GREASE WASTE PIPING (GW)
GW	GREASE WASTE PIPING BELOW GRADE (GW)
SD	STORM DRAIN PIPING (SD)
SD	STORM DRAIN PIPING BELOW GRADE (GW)
SSD	SUB-SOIL DRAIN OR FOOTING DRAIN (SSD)
AW	ACID WASTE PIPING (AW)
AW	ACID WASTE PIPING BELOW GRADE (AW)
PD	PUMPED DISCHARGE (PD)
CD	CONDENSATE DRAIN PIPING (CD)
D	CONDENSATE - INDIRECT DRAIN PIPING (D)
	VENT PIPING (V)
CW	COLD WATER PIPING (CW)
HW	HOT WATER PIPING (HW)
HWR	HOT WATER RETURN PIPING (HWR)
SCW	SOFT COLD WATER PIPING (SCW)
CDW	CHILLED DRINKING WATER PIPING (CDW)
TP	TRAP PRIMER LINE (TP)
F	FIRE PROTECTION PIPING (F)
AS	AUTOMATIC SPRINKLER PIPING (AS)
GAS	NATURAL GAS PIPING (G)
GV	GAS VENT PIPING (GV)
AIR	COMPRESSED AIR PIPING (A)
	FLOW DIRECTIONAL ARROW
	SHUT-OFF VALVE
	BALANCING VALVE (BV)
	SOLENOID VALVE (SV)
	BALL VALVE (BV)
	BUTTERFLY VALVE
	LUBRICATED PACKED PLUG STOP STOP COCK (PC)
	HORIZONTAL SWING CHECK
	UNION
	HORIZONTAL SWING CHECK
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)
	PIPING DOWN
	RISE OR DROP PIPING
	PIPING UP -OR- PIPING UP & DOWN
	CAP ON END OF PIPE
	CLEANOUT (WALL OR CEILING) (CO)
	FLOOR CLEANOUT (FCO)
	EXTERIOR CLEANOUT WITH 18"x18"x4" CONCRETE PAD (ECO)
	TWO-WAY CLEANOUT (PROVIDE 18"x24"x4" CONCRETE PAD OUTSIDE)
	FIRE DEPARTMENT VALVE AT RISER
	FIRE HYDRANT
	FIRE DEPARTMENT CONNECTION
	PRESSURE REDUCING VALVE (PRV)
	BRANCH CONNECTION OUT OF TOP
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF SIDE
	WYE & 1/8TH BEND BRANCH CONNECTION
	WYE BRANCH CONNECTION
	HOSE BIBB
	PRESSURE GAUGE WITH COCK
	THERMOMETER
	GAS PRESSURE REGULATOR
	TEST COCK
	GAS METER
	WALL HYDRANT
	VALVE IN RISE
	ASME TEMPERATURE & PRESSURE RELIEF VALVE
	VACUUM RELIEF VALVE
	ANGLE VALVE
	OS&Y VALVE
	ROOF DRAIN
1	REFER TO KEYED NOTE
FS	FLOW SWITCH
	FLOOR SINK (FS)
	FLOOR DRAIN (FD)
	FLOOR DRAIN WITH P-TRAP (FD)
	FLOOR DRAIN WITH P-TRAP AT 45° ANGLE (FD)
	HUB DRAIN (HD)
	ACCESS PANEL FOR TRAP PRIMER OR SHOCK ABSORBER
AP	ACCESS PANEL LOCATION SYMBOL
A	SHOCK ABSORBER
	AIR CHAMBER
(E)	EXISTING
(N)	NEW
VTR	VENT THRU ROOF
B.F.F.	BELOW FINISHED FLOOR
A.F.F.	ABOVE FINISHED FLOOR
	NEW CONNECTION
IE=100.00'	INVERT ELEVATION
1	DELTA CHANGE SYMBOL
P / 1	4" VTR RISER FLAG

GAS WATER HEATER SCHEDULE

MARK	BASIS OF DESIGN: MANUFACTURER	BASIS OF DESIGN: MODEL	STORAGE CAPACITY (GAL)	BTU/HR. INPUT	WH GALS. PER HR. RECOVERY RATE 100°F RISE	STORED WATER TEMP	ELECTRICAL CHAR.: V	P	F
GWH-1	AO SMITH	BTH-199	100 GAL	199,900	256	140 °F	120	1	60

1 INDIVIDUAL VERTICAL 4" CONCENTRIC FLUE VENT FOR EACH WATER HEATER. PROVIDE CONCENTRIC VENT KIT "9006144005". REFER TO DRAWINGS FOR FLUE ROUTING AND LOCATIONS THROUGH ROOF. CONTRACTOR SHALL COORDINATE FLUE LOCATION THROUGH ROOF AND PIPE ROUTING IN CEILING SPACES WITH ALL OTHER DISCIPLES PRIOR TO CONSTRUCTION.
2 PROVIDE ACID NEUTRALIZING TANK KIT "9007960005"

AIR COMPRESSOR SCHEDULE

MARK	HORSE POWER	CFM DELIVERED @ 125 PSI	RECEIVER TANK SIZE (GALLONS)	ORIENTATION	ELEC: V	P	F	MANUFACTURER/MODEL
AC-1	15.00	55.2	120.0	VERTICAL	480	3	60	KAESER COMPRESSORS SM 15

1 VERTICAL TANK MOUNTED SIMPLEX UNIT TO INCLUDE ASME AIR RECEIVER TANK, AUTOMATIC TANK DRAIN, ASME PREFERRED RELIEF VALVE, TANK MOUNTED 0-300 PSIG AIR PRESSURE GAUGE, ENCLOSED BELT GUARD, MOUNTED AND WIRED MAGNETIC STARTED, ON-OFF SWITCH, AIR COOLED AFTER-COOLER, AND SHALL BE MOUNTED ON RUBBER VIBRATION ISOLATION PADS.
2 PROVIDE HOUSEKEEPING PAD PER SPECIFICATIONS.
3 PROVIDE REFRIGERATED AIR DRYER. KAESER COMPRESSORS TBH 16.
4 PROVIDE 120 GALLON AIR RECEIVER TANK DOWNSTREAM OF REFRIGERATED AIR DRYER

REFRIGERATED AIR DRYER SCHEDULE

MARK	CFM DELIVERED	INLET PRESSURE (PSIG)	AMBIENT TEMPERATURE (DEG. F)	INLET AIR TEMPERATURE (DEG. F)	ELEC: V	P	F	MANUFACTURER/MODEL
RAD-1	56	100.00	80 °F	100 °F	240	3	60	KAESER COMPRESSORS TBH 16

CIRCULATION PUMP SCHEDULE

MARK	BASIS OF DESIGN: MANUFACTURER	BASIS OF DESIGN: MODEL	DESCRIPTION	TYPE	GPM	HEAD	HP MIN	ELECTRICAL CHAR.: V	P	F	MAX RPM
CP-1	GRUNDFOS	UPS 15-35	CIRCULATION PUMP	INLINE BRONZE	3	3'-0"	0.818	120	1	60	1750

DOMESTIC HW EXPANSION TANK SCHEDULE

MARK	BASIS OF DESIGN: MANUFACTURER	BASIS OF DESIGN: MODEL	DESCRIPTION	MAX WORK PRESSURE (PSI)	TANK VOLUME GALLONS	MAX. ACCEPT. GALLONS	DIAMETER (INCHES)
ET-1	WATTS	PLT-20	HOT WATER EXPANSION TANK	150	8.5	7.102	12 1/2"

1 PROVIDE ASME POTABLE WATER EXPANSION TANK ON THE COLD WATER SUPPLY LINE, DOWNSTREAM OF THE CHECK VALVE.
2 PROVIDE HOUSEKEEPING PAD.
3 PROVIDE UNION CONNECTION.

GAS PRESSURE REGULATOR SCHEDULE

MARK	BASIS OF DESIGN: MANUFACTURER	BASIS OF DESIGN: MODEL	INLET PRESSURE (psi)	OUTLET PRESSURE (oz.)	CFH	SERVICES
GPR-1	AMERICAN METER	1800C	2.0	8	770	NEW ADDITION - ROOFTOP UNITS, SCIENCE LABS

GAS EQUIPMENT SCHEDULE

EQUIPMENT NUMBER	DESCRIPTION	BTU PER HOUR LOAD	TOTAL BTU PER HOUR	TOTAL CFH
RTUS	SPACE HEATING	VARIES	630,000 BTUH	630 CFH
G	GAS TURRENTS (X28)	5,000 BTUH	140,000 BTUH	140 CFH
TOTALS (ADDITION TO SYSTEM):			770,000 BTUH	770 CFH
GWH - 1	GAS WATER HEATER	199,900 BTUH	199,900 BTUH	200 CFH
TOTALS (TIE INTO EXISTING SYSTEM):			199,900 BTUH	200 CFH

PLUMBING GENERAL NOTES

1. WITHIN THE EXISTING BUILDING, EXISTING WATER, WASTE AND VENT SERVICES ARE TO BE MODIFIED AS REQUIRED AND REUSED FOR THE INSTALLATION OF NEW AND/OR RELOCATED PLUMBING FIXTURES. REFER TO PLUMBING FLOOR PLANS FOR POINTS OF CONNECTION.
2. WITHIN THE EXISTING BUILDING, SAWCUT AND REMOVE EXISTING FLOOR SLAB AS REQUIRED TO PROVIDE NEW AND/OR RELOCATED PLUMBING FIXTURES, CLEANOUTS, AND UNDERSLAB WASTE AND VENT PIPING. PATCH AND REFINISH FLOOR TO MATCH EXISTING.
3. IN AREAS WHERE THE FLOOR SLAB IS REMOVED, CONTRACTOR SHALL ALSO REMOVE UNDERSLAB WASTE AND VENT PIPING WHICH SERVES FIXTURES DESIGNATED FOR REMOVAL. PRIOR TO ANY REMOVAL, FIELD VERIFY THAT LINES TO BE REMOVED DO NOT SERVE ANY EXISTING FIXTURES TO REMAIN OR NEW FIXTURES TO BE INSTALLED.
4. IN AREAS WHERE THE FLOOR SLAB IS NOT REMOVED, CONTRACTOR SHALL ABANDON IN PLACE ANY UNDERSLAB WASTE AND VENT PIPING NO LONGER NEEDED, UNLESS THE PIPING MUST BE REMOVED TO ACCOMMODATE NEW CONSTRUCTION. IF NEW WORK DOES NOT NECESSITATE THEIR REMOVAL, CUT AND PLUG SUCH LINES BELOW SLAB, AND PATCH FLOOR TO MATCH EXISTING.
5. FIELD VERIFY EXACT LOCATION, SIZE, DEPTH, DIRECTION OF FLOW, CAPACITY, PIPE MATERIAL AND CONDITION OF EXISTING WASTE PIPING PRIOR TO BEGINNING CONSTRUCTION. ENSURE THAT PROPER CONNECTIONS TO AND EXTENSION OF SUCH UTILITIES CAN BE MADE.
6. WASTE LINES TO BE RE-USED OR RECONNECTED TO SHALL BE THOROUGHLY RODDED OUT AND FLUSHED TO ENSURE THEY ARE FREE FROM BLOCKAGES.
7. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND OTHER SUB-SURFACE BUILDING ELEMENTS.
8. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
9. CONTRACTOR TO COORDINATE ALL REMODEL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND TO MINIMIZE INTERRUPTION OF SERVICES.
10. COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO ANY ROUGH-INS.
11. DO NOT ROUGH-IN FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
12. CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
13. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE, INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
14. THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING FIXTURES TO REMAIN SHALL DETERMINE THE EXTENT AND NATURE OF PLUMBING REMODEL WORK.
15. EACH VENT SHALL TERMINATE VERTICALLY NOT LESS THAN 6" ABOVE ROOF, MAINTAIN MINIMUM 10'-0" DISTANCE BETWEEN VENT TERMINALS THROUGH ROOF AND ALL FRESH AIR INTAKES, AND A MINIMUM 5'-0" FROM ANY EXTERIOR WALL.
16. PRIOR TO BEGINNING CONSTRUCTION, COORDINATE BUILDING BACKFLOW PREVENTION REQUIREMENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PROVIDE AS DIRECTED.

FIRE SPRINKLER SYSTEM NOTES

A. DESIGN AND FURNISH LABOR AND MATERIALS FOR THE COMPLETE INSTALLATION OF A HYDRAULICALLY CALCULATED AUTOMATIC WET PIPE FIRE SPRINKLER SYSTEM WITH THE ATTENDANT ACCESSORIES FOR ENTIRE AREA.

B. STUDY THE GENERAL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS, IN ORDER TO BECOME FAMILIAR WITH THE BUILDING AND DETAILS AS THEY APPLY TO THE WORK OF THIS SECTION. COOPERATE WITH OTHERS SO THAT THERE WILL BE NO CONFLICT OF SPACE REQUIRED. DUCTWORK AND ELECTRICAL WORK SHALL TAKE PRECEDENCE OVER OTHER WORK, EXCEPT WHERE IT IS ABSOLUTELY NECESSARY TO MAINTAIN COVERAGE PROTECTION.

C. THE INSTALLATION OF THE ENTIRE SPRINKLER SYSTEMS SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE STANDARD BUILDING CODE, REQUIREMENTS OF NFPA PAMPHLET 13, AND OTHER LOCAL AUTHORITIES EXERCISING JURISDICTION.

D. IT SHALL BE THE FIRE PROTECTION INSTALLERS RESPONSIBILITY, PRIOR TO BID, TO VERIFY PRESSURE AT THE PROJECT SITE BY PERFORMING A FLOW TEST. DETERMINE IF THE AVAILABLE STATIC AND RESIDUAL PRESSURE WILL ADEQUATELY PROVIDE THE FIRE EXTINGUISHING SYSTEM WITH THE NECESSARY PRESSURE OR IF A FIRE PUMP, BREAK TANK AND NECESSARY APPURTENANCES ARE REQUIRED.

E. REFER TO SPECIFICATIONS FOR PIPE MATERIALS.

SHOCK ARRESTOR SCHEDULE

P.D.I. SYMBOLS:	FIXTURE UNITS:	THREADED CONNECTION	CERTIFICATION
A	1 - 11	1/2"	ASSE 1010
B	12 - 32	3/4"	ASSE 1010
C	33 - 60	1"	ASSE 1010
D	61 - 113	1"	ASSE 1010
E	114 - 154	1"	ASSE 1010
F	155 - 330	1"	ASSE 1010

ISSUE FOR PROPOSALS

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DALLAS, TEXAS 75204
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STATE OF TEXAS
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REGISTERED ARCHITECT
01/20/2026

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1700 Pacific Ave., Suite 200
Irving, TX 75062
Registration: F-411111
Project No: 2650-01466

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DATE JANUARY 20, 2026
DRAWN BY AW
CHECKED BY AT
BRW PROJECT NUMBER 225057.00

WESTLAKE ACADEMY ARTS & SCIENCES ADDITION
2600 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

P5.1

PLUMBING LEGEND & SCHEDULES

PLUMBING FIXTURE SCHEDULE

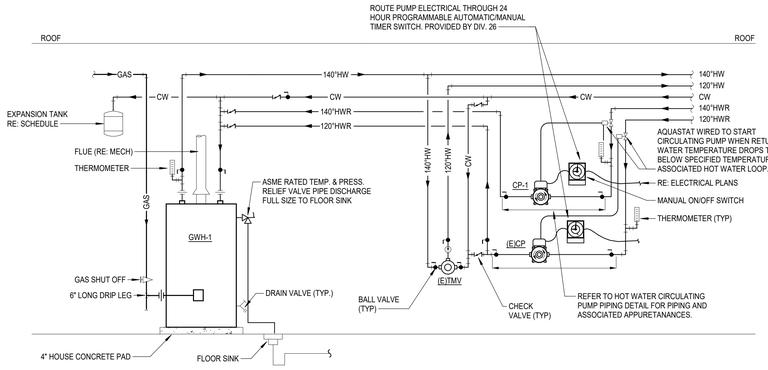
TYPE	FIXTURE DESCRIPTION
DRAINAGE FIXTURE (CO, FD, FS, HD, TD)	
DGCO	DESCRIPTION: TWO (2) EXTERIOR CLEANOUTS INSTALLED AT CIVIL'S POINT OF CONNECTION. REFER TO ECO FOR FIXTURE INFORMATION. REFER TO DETAIL FOR INSTALLATION INFORMATION.
DN-1	DESCRIPTION: OVERFLOW DOWNSPOUT NOZZLE WITH STAINLESS STEEL PERFORATED COVER. CAST BRONZE WITH THREADED OR NO HUB OUTLET AND FLANGE TO SECURE NOZZLE TO WALL. INSTALL AT 12" ABOVE FINISHED SLAB OR AS DIRECTED BY ARCHITECT. WADE 3941-VP. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.
ECO	DESCRIPTION: EXTERIOR CLEANOUT TO GRADE, CAST IRON BODY WITH ADJUSTABLE TOP ASSEMBLY WITH GASKET SEAL, AND ROUND SCORIATED VANDAL RESISTANT DUCTILE IRON TRACTOR TYPE COVER. IF LOCATED IN ASPHALT OR DIRT PROVIDE 18" X 18" X 12" CONCRETE PAD. WADE 6000-X.
FD-1	SERVICE: TOILET ROOMS AND GENERAL USE DESCRIPTION: FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 6" DIAMETER STAINLESS STEEL STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET. WADE 1100-MR6. TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.
FD-2	SERVICE: TOILET ROOMS AND GENERAL USE DESCRIPTION: FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 6" DIAMETER STAINLESS STEEL STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET. WADE 1100-MR6. TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.
FS-1	SERVICE: ICE MACHINE DRAIN / BACKFLOW PREVENTER DISCHARGE DESCRIPTION: CAST IRON 8" SQUARE FLOOR SINK WITH 6" DEEP SUMP, A.R.E. INTERIOR, ALUMINUM DOME BOTTOM STRAINER, 1/2 STAINLESS STEEL TOP, CLAMPING DEVICE. WADE 9110-15026-27-SS. TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DRAWINGS / EQUIPMENT PLACEMENT.
ORD-1	SERVICE: OVERFLOW ROOF DRAIN DESCRIPTION: ROOF DRAIN. CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, ALUMINUM DOME, 2" HIGH WATER DAM, BEARING PAN, UNDERDECK CLAMP AND ADJUSTABLE EXTENSION AS REQUIRED FOR ROOF CONSTRUCTION. WADE 3000-D-46-52-53 FOR 6" AND SMALLER, WADE 3001-D-46-52-53 FOR 8" AND LARGER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.
RD-1	SERVICE: PRIMARY ROOF DRAIN DESCRIPTION: ROOF DRAIN. CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, ALUMINUM DOME, UNDERDECK CLAMP AND ADJUSTABLE EXTENSION AS REQUIRED FOR ROOF CONSTRUCTION. WADE 3000-46-52-53 FOR 6" AND SMALLER, WADE 3001-46-52-53 FOR 8" AND LARGER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.
WCO	DESCRIPTION: WALL CLEANOUT. CAST IRON CLEANOUT FERRULE WITH DUCTILE IRON COMBINED COVER/PLUG AND ROUND STAINLESS COVER PLATE WITH CENTER SECURING SCREW. MIFAB C1450 WITH C1400-RD6. PROVIDE MIFAB C1460 CAST IRON CLEANOUT TEE IN LIEU OF FERRULE AS REQUIRED FOR WALL CONSTRUCTION.
DRINKING FOUNTAIN (EDF)	
EDF-1	DESCRIPTION: RECESSED, BARRIER FREE, BI-LEVEL ELECTRIC DRINK FOUNTAIN WITH ELECTRONIC BOTTLE FILLER SENSOR AND SHIELDED VANDEL-RESISTANT BUBBLER. 8 GPH OF 50 DEGREE WATER AT 90 DEGREE AMBIENT AND 80 DEGREE INLET WATER. FURNISH WITH OASIS CANE APRON (SKU: 036707-001) ON HIGH FOUNTAIN. OASIS M6CREBF 507172. P-TRAP: 1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON. MCGUIRE 8872. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISER. MCGUIRE 2165. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE SLAB WITH (4) 1/2" BOLTS. ADJUSTABLE SLEEVE FOR CONNECTION TO HANGER PLATE PROVIDED BY FIXTURE MANUFACTURER. MIFAB MC-33. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
HYDRANTS (HB, RH, WH)	
RH-1	SERVICE: ROOF HYDRANT, POST TYPE HYDRANT DESCRIPTION: ROOF HYDRANT, PEDESTSAL TYPE, FREEZELESS, 3/4" INLET, CLOSED COUPLED CHROME PLATED BRASS FINISH. WOODFORD MODEL SRH-MS. ROUGH-IN: 3/4" COLD WATER.
WH-1	SERVICE: EXTERIOR GENERAL USE DESCRIPTION: WALL HYDRANT (FREEZELESS), 3/4" MALE HOSE THREAD OUTLET, SELF-DRAINING WITH ANTI-SIPHON VACUUM BREAKER, CHROME PLATED BRONZE CONSTRUCTION WITH STAINLESS STEEL HYDRANT BOX, LOCKING HINGED COVER, LOOSE TEE OPERATING KEY. WOODFORD MODEL B65. ROUGH-IN: 3/4" COLD WATER. INSTALL WITH BOTTOM OF BOX AT 18" A.F.F. OR AS DIRECTED BY ARCHITECT/OWNER.
LABORATORY EQUIPMENT	
ECP-1	SERVICE: ELECTRIC CONTACTOR CONTROL PANEL (13 ELECTRICAL CIRCUITS WITH 3 SPARE) DESCRIPTION: SURFACE MOUNTED NEMA 1 PANEL WITH GREY POWDER COATED FINISH AND PIANO HINGED DOOR, APPROXIMATELY 16" x 16" x 4" DEEP, PRE-PUNCHED HOLES FOR WIRE CONNECTION, SCREWDRIVER SLOTTED LATCH, PRE-NOTCHED 16- 4 POLE ELECTRONICALLY HELD CONTACTORS, ASSEMBLED AND TESTED FOR USE WITH CONTROL PANEL, FAN CONNECTIONS. LACS BY E&I, INC. MODEL #ECP-16 ROUGH-IN: MOUNT ABOVE ACCESSIBLE CEILING. REFER TO FLOOR PLANS FOR INSTALLATION LOCATIONS. FURNISHED BY PLUMBING CONTRACTOR. BOX AND WIRING INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE FINAL INSTALLATION WITH ARCHITECT/OWNER AND ELECTRICAL CONTRACTOR.
ECP-2	SERVICE: ELECTRIC CONTACTOR CONTROL PANEL (12 ELECTRICAL CIRCUITS WITH 4 SPARE) DESCRIPTION: SURFACE MOUNTED NEMA 1 PANEL WITH GREY POWDER COATED FINISH AND PIANO HINGED DOOR, APPROXIMATELY 16" x 16" x 4" DEEP, PRE-PUNCHED HOLES FOR WIRE CONNECTION, SCREWDRIVER SLOTTED LATCH, PRE-NOTCHED 16- 4 POLE ELECTRONICALLY HELD CONTACTORS, ASSEMBLED AND TESTED FOR USE WITH CONTROL PANEL, FAN CONNECTIONS. LACS BY E&I, INC. MODEL #ECP-16 ROUGH-IN: MOUNT ABOVE ACCESSIBLE CEILING. REFER TO FLOOR PLANS FOR INSTALLATION LOCATIONS. FURNISHED BY PLUMBING CONTRACTOR. BOX AND WIRING INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE FINAL INSTALLATION WITH ARCHITECT/OWNER AND ELECTRICAL CONTRACTOR.
ECP-3	SERVICE: ELECTRIC CONTACTOR CONTROL PANEL (4 ELECTRICAL CIRCUITS WITH 4 SPARE) DESCRIPTION: SURFACE MOUNTED NEMA 1 PANEL WITH GREY POWDER COATED FINISH AND PIANO HINGED DOOR, APPROXIMATELY 16" x 16" x 4" DEEP, PRE-PUNCHED HOLES FOR WIRE CONNECTION, SCREWDRIVER SLOTTED LATCH, PRE-NOTCHED 16- 4 POLE ELECTRONICALLY HELD CONTACTORS, ASSEMBLED AND TESTED FOR USE WITH CONTROL PANEL, FAN CONNECTIONS. LACS BY E&I, INC. MODEL #ECP-8 ROUGH-IN: MOUNT ABOVE ACCESSIBLE CEILING. REFER TO FLOOR PLANS FOR INSTALLATION LOCATIONS. FURNISHED BY PLUMBING CONTRACTOR. BOX AND WIRING INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE FINAL INSTALLATION WITH ARCHITECT/OWNER AND ELECTRICAL CONTRACTOR.
EEW-1	SERVICE: EMERGENCY EYE/FACE WASH DESCRIPTION: DECK MOUNTED BARRIER-FREE SWING-DOWN HALO EYE/FACE WASH (T.A.S. AND ANSI Z358.1 COMPLIANT), CHROME PLATED BRASS, FULLY-ASSEMBLED AND FACTORY-TESTED EYE/FACE WASH WITH HINGED DUST COVERS, PRECISE 20 DEGREE SWING-DOWN ACTIVATION. BRADLEY S19274JDB. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 85 DEGREES OUT, EQUAL TO BRADLEY NAVIGATOR S19-2000 EFX8. ROUGH-IN: 3/4" HOT WATER AND 1" COLD WATER SUPPLIES TO MIXING VALVE, 1" TEPID WATER SUPPLY FROM MIXING VALVE TO FIXTURE. REFER TO ARCHITECTURAL/CASEWORK DRAWINGS FOR HEIGHT REQUIREMENTS.

PLUMBING FIXTURE SCHEDULE

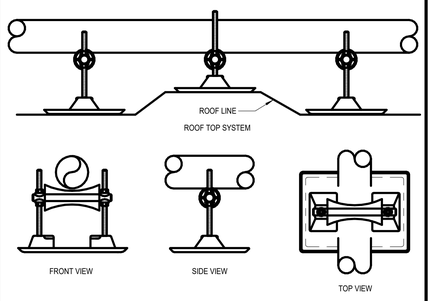
TYPE	FIXTURE DESCRIPTION
ESEW-1	SERVICE: EMERGENCY DRENCH SHOWER WITH EYE/FACE WASH DESCRIPTION: EXPOSED EMERGENCY DRENCH SHOWER AND EYE/FACE WASH (T.A.S. AND ANSI Z358.1 COMPLIANT), STAINLESS STEEL EYEWASHING BOWL WITH TWIN PERFORATED-DISC EYE/FACE WASH HEADS OPERATED BY LARGE PUSH HANDLE, YELLOW IMPACT-RESISTANT PLASTIC SHOWERHEAD OPERATED BY STAINLESS STEEL PULL ROD WITH TRIANGLE HANDLE. BRADLEY S19-312B. TMV: TEPID WATER PROVIDED BY NAVIGATOR S19-2150 EFX20 EMERGENCY THERMOSTATIC MIXING VALVE. DRAIN: PROVIDE FLOOR DRAIN AS SCHEDULED DIRECTLY BENEATH THE SHOWER HEAD, ROUTE WASTE TO ACID DILUTION BASIN IF INDICATED ON PLANS. ROUGH-IN: 1" HOT WATER AND 1-1/4" COLD WATER SUPPLIES TO MIXING VALVE, 1-1/4" TEPID WATER SUPPLY FROM MIXING VALVE TO FIXTURE. REFER TO ARCHITECTURAL/CASEWORK DRAWINGS FOR HEIGHT REQUIREMENTS.
FH-1	SERVICE: FUME HOOD (T.A.S. COMPLIANT) DESCRIPTION: SINGLE UNIT FUME HOOD WITH CUP SINK FURNISHED AND INSTALLED BY ARCHITECTURAL DIVISION. UNIT SHALL BE FACTORY PRE-PIPED COMPLETE WITH SINGLE POINT CONNECTIONS FOR COLD WATER, HOT WATER, COMPRESSED AIR, AND GAS SERVICES BY DIVISION 22. FAUCET: HOT AND COLD WATER CUP SINK FAUCET FURNISHED BY ARCHITECTURAL DIVISION AND INSTALLED BY DIVISION 22. GAS COCK: NATURAL GAS COCK(S) FURNISHED BY ARCHITECTURAL DIVISION AND INSTALLED BY DIVISION 22. STRAINER: ACID RESISTANT CUP SINK AND STRAINER FURNISHED WITH FUME HOOD. DIVISION 22 CONTRACTOR TO PROVIDE ACID RESISTANT 1-1/2" OFFSET TAILPIECE. REFER TO BOOK SPECIFICATION FOR PIPE MATERIAL AND ACCEPTABLE MANUFACTURERS. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. CHROME PLATED, WITH CONVERTIBLE LOOSE KEY HANDLE, ESCUTCHEON, AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISER. MCGUIRE 2165LK. 1/2" FLEXIBLE GAS CONNECTOR WITH GAS VALVE. ROUGH-IN: 2" ACID WASTE, 2" ACID VENT, 1/2" COLD WATER, 1/2" HOT WATER, 3/4" NATURAL GAS, 3/4" COMPRESSED AIR. REFER TO ARCHITECTURAL/CASEWORK DRAWINGS FOR HEIGHT AND LOCATION REQUIREMENTS.
G	SERVICE: GAS TURRENT WITH (2) HOSE COCKS DESCRIPTION: 90 DEGREE DOUBLE GAS COCK WITH TWO GROUND KEY VALVES, DECK MOUNTED, VANDAL RESISTANT. T&S BRASS BL-4200-0. ROUGH-IN: 3/8" NATURAL GAS. COORDINATE FINAL QUANTITY, LOCATIONS AND INSTALLATION WITH ARCHITECTURAL/CASEWORK DRAWINGS.
LCP-1	SERVICE: LAB UTILITY CONTROLLER DESCRIPTION: UTILITY CONTROLLER NEMA 1 PANEL WITH DOOR PANEL MOUNTED PASSWORD ASSIGNED SIEMENS SIPLUX HMI TO ACTIVATE REMOTE SOLENOIDS AND RELAYS TO CONTROL THE DOMESTIC WATER, GAS, AND ELECTRICAL CONVENIENCE OUTLETS. UTILITY CONTROLLER SHALL COMPLY WITH UL 508A STANDARDS. CONTROLLER SHALL LOGIC DEVICE TO PROVIDE LOW VOLTAGE SIGNALS FOR OUTPUT CURCUITS. TWO POSITION KEY SELECTOR SWITCH SYSTEM POWER SUPPLY 120VAC, 5A WITH CIRCUIT PROTECTION. POWER ON SELECTOR, SWITCH LOCATED IN AN INTERNAL JUNCTION BOX WITH REMOVABLE COVER SYSTEM CONTROLLER 24VDC, DISCRETE INPUTS, RELAY OUTPUTS, AND TERMINAL BLOCKS WITH GROUND TB. UNIT SHALL CONTROL UTILITY OUTLETS AT STUDENT WORKSTATIONS AND OTHER LOCATIONS AS INDICATED BY DRAWINGS. THE CONTROLLER SHALL BE EQUIPPED WITH AN ENABLING PASS CODE. LACS BY E&I, INC. MODEL LCP-ST-3-G-HW-CW-RT-FT. ROUGH-IN: REFER TO FLOOR PLANS FOR PIPE SIZES. SOLENOID ENCLOSURE TO BE FLUSH MOUNTED INSIDE WALL, NO PIPING TO BE EXPOSED. PROVIDE IN CONJUNCTION WITH REO-1, SPECIFIED BELOW, COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTOWNER AND ELECTRICAL CONTRACTOR.
REO-1	SERVICE: INDIVIDUAL SCIENCE LAB UTILITY EMERGENCY OFF BUTTON DESCRIPTION: WHITE POWDER COATED BOX, APPROXIMATELY 8" x 8" x 4" DEEP. FURNISHED WITH 120V/24V TRANSFORMER, TWO POSITION SWITCH FOR ACTIVATION OF SERVICE, LOCKABLE AND EQUIPPED WITH AN EMERGENCY PANIC BUTTON. ELECTRICALLY FED WITH A 10 AMP, 120VAC SINGLE PHASE CIRCUIT. LACS BY E&I, INC. MODEL #REO-PC-CC-KS-SO-F. ROUGH-IN: REFER TO FLOOR PLANS FOR LOCATIONS, FURNISHED BY PLUMBING CONTRACTOR, BOX AND WIRING INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE FINAL INSTALLATION WITH ARCHITECTOWNER AND ELECTRICAL CONTRACTOR.
SK-X1	SERVICE: STUDENT LAB SINK (T.A.S. COMPLIANT FOR STUDENTS) DESCRIPTION: SINK, INTEGRAL TO COUNTERTOP, ACID RESISTANT, FURNISHED AND INSTALLED BY ARCHITECTURAL DIVISION. FAUCET: DECK MOUNTED, SINGLE HOLE, 5-5/8" GOOSENECK SPOUT, CHROME PLATED BRASS, SWIVEL VACUUM BREAKER NOZZLE WITH SERRATED TIP OUTLET, QUARTER-TURN CARTRIDGES AND (2) 4-ARM HANDLES, 0.5 GPM. T&S BRASS BL-5700-08. STRAINER: HEAVY DUTY STEEL BASKET STRAINER WITH 1-1/2 TAILPIECE AND LOCK NUTS. MCGUIRE 151A. P-TRAP: 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165. ROUGH-INS: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
SK-X2	SERVICE: STUDENT LAB SINK DESCRIPTION: SINK, INTEGRAL TO COUNTERTOP, ACID RESISTANT, FURNISHED AND INSTALLED BY ARCHITECTURAL DIVISION. FAUCET: DECK MOUNTED, SINGLE HOLE, 5-5/8" GOOSENECK SPOUT, CHROME PLATED BRASS, SWIVEL VACUUM BREAKER NOZZLE WITH SERRATED TIP OUTLET, QUARTER-TURN CARTRIDGES AND (2) 4-ARM HANDLES, 0.5 GPM. T&S BRASS BL-5700-08. STRAINER: HEAVY DUTY STEEL BASKET STRAINER WITH 1-1/2 TAILPIECE AND LOCK NUTS. MCGUIRE 151A. P-TRAP: 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165. ROUGH-INS: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
SK-X3	SERVICE: TEACHER ISLAND LAB SINK (A.D.A. COMPLIANT FOR ADULTS) DESCRIPTION: SINK, INTEGRAL TO COUNTERTOP, ACID RESISTANT, FURNISHED AND INSTALLED BY ARCHITECTURAL DIVISION. FAUCET: DECK MOUNTED, SINGLE HOLE, 5-5/8" GOOSENECK SPOUT, CHROME PLATED BRASS, SWIVEL VACUUM BREAKER NOZZLE WITH SERRATED TIP OUTLET, QUARTER-TURN CARTRIDGES AND (2) 4-ARM HANDLES, 0.5 GPM. T&S BRASS BL-5700-08. STRAINER: HEAVY DUTY STEEL BASKET STRAINER WITH 1-1/2 TAILPIECE AND LOCK NUTS. MCGUIRE 151A. P-TRAP: 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165. ROUGH-INS: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
SK-X4	SERVICE: PREP ROOM SINK (A.D.A. COMPLIANT FOR ADULTS) DESCRIPTION: SINK, INTEGRAL TO COUNTERTOP, ACID RESISTANT, FURNISHED AND INSTALLED BY ARCHITECTURAL DIVISION. FAUCET: DECK MOUNTED, SINGLE HOLE, 5-5/8" GOOSENECK SPOUT, CHROME PLATED BRASS, SWIVEL VACUUM BREAKER NOZZLE WITH SERRATED TIP OUTLET, QUARTER-TURN CARTRIDGES AND (2) 4-ARM HANDLES, 0.5 GPM. T&S BRASS BL-5700-08. REVERSE OSMOSIS WATER FAUCET: DECK MOUNTED, SINGLE HOLE, 5-11/16" GOOSENECK SPOUT, STAINLESS STEEL, SWIVEL VACUUM BREAKER NOZZLE WITH SERRATED TIP OUTLET, QUARTER-TURN CARTRIDGES AND (1) 4-ARM HANDLE, 0.5 GPM. T&S BRASS BL-5705-08CR. STRAINER: HEAVY DUTY STEEL BASKET STRAINER WITH 1-1/2 TAILPIECE AND LOCK NUTS. MCGUIRE 151A. REVERSE OSMOSIS WATER FILTER: INSTALL CULLIGAN #LCRO-200AC REVERSE OSMOSIS WATER FILTER UNDER OR ADJACENT TO SCIENCE LAB PREP ROOM SINK. REVERSE OSMOSIS SYSTEM TO INCLUDE IN-LINE BOOSTER PUMP KIT AND PRESSURIZED WATER STORAGE TANK (CULLIGAN #RO-80). P-TRAP: 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165. ROUGH-INS: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. 1/2" REVERSE OSMOSIS WATER TO REVERSE OSMOSIS WATER FAUCET, 3/4" REVERSE OSMOSIS WATER TO DISHWASHER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.

PLUMBING FIXTURE SCHEDULE

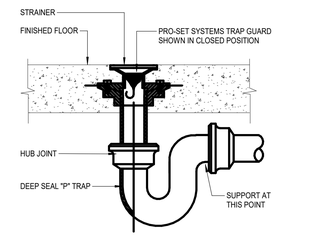
TYPE	FIXTURE DESCRIPTION
SVB-1	SERVICE: SOLENOID VALVE PANEL FOR GAS AND COLD AND HOT WATER PIPING. DESCRIPTION: SOLENOID VALVE BOX FOR NATURAL GAS AND WATER SERVICE, WHITE POWDER COATED STEEL FULLY RECESSED ENCLOSURE, APPROXIMATELY 18" x 18" x 4" DEEP. FLUSH MOUNTED WITH LOUVERED DOOR AND KEYED LOCK, FACTORY ASSEMBLED FOR ONE CLASSROOM. FOR EACH UTILITY, FURNISH ONE (1) LINE SIZED LEVEL HANDLE BALL VALVE UPSTREAM OF ONE (1) 24 VAC LINE SIZED ZERO DIFFERENTIAL SOLENOID VALVE OF BRASS CONSTRUCTION, SOLENOID VALVES SHALL BE GENERAL SERVICE, NORMALLY CLOSED AND SHALL CLOSE UPON LOSS OF POWER. PROVIDE THREE (3) KEYS WITH EACH ENCLOSURE. LACS BY E&I, INC. MODEL #VP-3-G-HW-CW-1-1.25-1.25-T-S-KL. ROUGH-IN: REFER TO FLOOR PLANS FOR PIPE SIZES. SOLENOID ENCLOSURE TO BE FLUSH MOUNTED INSIDE WALL, NO PIPING TO BE EXPOSED. PROVIDE IN CONJUNCTION WITH REO-1, SPECIFIED ABOVE, COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTOWNER AND ELECTRICAL CONTRACTOR.
LAVATORY (L)	
L-1	SERVICE: SINGLE USER LAVATORY (T.A.S. COMPLIANT) DESCRIPTION: LAVATORY, WALL HUNG, VITREOUS CHINA, 14-7/8" X 10" X 6-1/2" DEEP BOWL WITH FRONT OVERFLOW, FAUCET HOLES ON 8" CENTERS. AMERICAN STANDARD "LUCERNE" 0356.015. FAUCET: CHROME PLATED BRASS LAVATORY, WRISTBLADE HANDLES ON 8" CENTERS WITH 5-1/2" SPOUT, VANDAL RESISTANT AERATOR, QUARTER-TURN WASHERLESS CERAMIC DISC VALVES. KOHLER K-800720-SANA. STRAINER: 1-1/4" 17 GAUGE OFFSET WHEELCHAIR STRAINER, CHROME PLATED BRASS GRID DRAIN WITH ELBOW AND 17 GAUGE OFFSET TAILPIECE. MCGUIRE 155WC. P-TRAP: 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. INSTALL PER EVERY TWO FIXTURES. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 4" SQUARE BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS. WADE WS20-M36. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
SINK (HS, SK)	
SK-1	SERVICE: ART ROOM SINK (T.A.S. COMPLIANT FOR STUDENTS) DESCRIPTION: SINK, INTEGRAL TO COUNTERTOP, FURNISHED AND INSTALLED BY ARCHITECTURAL DIVISION. FAUCET: CHROME PLATED FAUCET WITH SPRAY HANDLE, SINGLE HANDLE WITH 9" SPOUT, VANDAL RESISTANT AERATOR WITH A MAX FLOW 1.5GPM. MOEN 8701. STRAINER: HEAVY DUTY STEEL BASKET STRAINER WITH 1-1/2 TAILPIECE AND LOCK NUTS. MCGUIRE 151A. INTERCEPTOR: INSTALL JAY R SMITH 8710 SOLIDS INTERCEPTOR ADJACENT TO ART ROOM SINK. UNIT IS PROVIDED WITH 2" INLET/OUTLET. P-TRAP: 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. INSTALL PER EVERY TWO FIXTURES. ROUGH-INS: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
SK-2	SERVICE: ART STORAGE ROOM UTILITY SINK (A.D.A. COMPLIANT) DESCRIPTION: SINK, FREESTANDING UTILITY SINK WITH HEAVY GAUGE STEEL LEGS AND ADJUSTABLE LEVELERS, 13" DEEP BOWL, 24" X 20" X 34" OVERALL DIMENSIONS, SINGLE COMPARTMENT WITH FAUCET DECK AND TWO FAUCET HOLES. MUSTEE 19F. FAUCET: CHROME PLATED FAUCET WITH 12" ARC TUBE SPOUT AND 4" WRIST BLADE HANDLES. TWO FAUCET HOLES ON 4" CENTERS, MAX 1.5 GPM. ELKAY LK406AT12T4. STRAINER: HEAVY DUTY STEEL BASKET STRAINER WITH 1-1/2 TAILPIECE AND LOCK NUTS. MCGUIRE 151A. INTERCEPTOR: INSTALL JAY R SMITH 8710 SOLIDS INTERCEPTOR ADJACENT TO ART STORAGE ROOM SINK. UNIT IS PROVIDED WITH 2" INLET/OUTLET. P-TRAP: 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. INSTALL PER EVERY TWO FIXTURES. ROUGH-INS: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
TRAPS / INTERCEPTORS	
ANT-1	DESCRIPTION: 100 GALLON ACID NEUTRALIZATION TANK, SIZED FOR MAX 20 LAB STATIONS, HD POLYETHYLENE LINED PRECAST CONCRETE WITH STEEL REINFORCEMENT AND MANHOLE ACCESS COMPLETE WITH COVERS AND FRAMES. DETAILED ON DRAWINGS. PROVIDE APPROVED SAMPLE WELL ON DISCHARGE SIDE OF INTERCEPTOR. PARK USA ANT-100.
SW-1	DESCRIPTION: PRE-CAST CONCRETE SAMPLING BASIN WITH MANHOLE EXTENSIONS, TRAFFIC-RATED COVERS FLUSH WITH ADJACENT PAVING. PARK USA SWB-15.
VALVE BOXES (RVB, IMC)	
IMC-1	DESCRIPTION: ICE MACHINE CONNECTION, WATER SUPPLY VALVED AT WALL. PROVIDE DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER AND WATER FILTER. WATTS 1/2" 007-S BACKFLOW PREVENTER AND AQUA-PURE AP510 FILTER. ROUTE BACKFLOW PREVENTER DISCHARGE TO FLOOR SINK SERVING ICE MACHINE. ROUGH-INS: 1/2" COLD WATER. COORDINATE ROUGH-IN LOCATION/HEIGHT, FINAL CONNECTION WITH EQUIPMENT BEING INSTALLED AND WITH ARCHITECT/CASEWORK DRAWINGS.
RVB-1	DESCRIPTION: RECESSED VALVE BOX, 7" X 7", 18 GAUGE STEEL WITH WHITE POWDER COAT FINISH, 1/2" THREADED CONNECTION DOMESTIC VALVE. PROVIDE FILTER WHEN MAKING FINAL CONNECTION. GUY GRAY BIM-875 WITH AQUA-PURE AP717 FILTER. ROUGH-IN: 1/2" COLD WATER.
WATER CLOSET (WC)	
WC-1	SERVICE: WATER CLOSET (T.A.S. COMPLIANT) DESCRIPTION: WATER CLOSET, WALL HUNG, 1.28 GALLON PER FLUSH SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL WITH 1-1/2" TOP SPUD INLET AND BOLT COVERS. KOHLER K-84325. SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. CHURCH 9500SSCT. FLUSH VALVE: 1.28 GALLON FLUSH CYCLE, EXPOSED, HARDWIRED SENSOR TYPE WITH TRUE MECHANICAL OVERRIDE, CHROME PLATED CLOSET FLUSH



18 DOMESTIC GAS WATER HEATER PIPING
SCALE: NONE

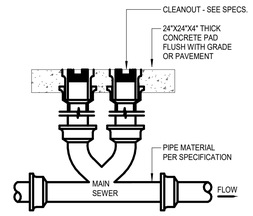


11 GAS SUPPORT ON ROOF
SCALE: NONE

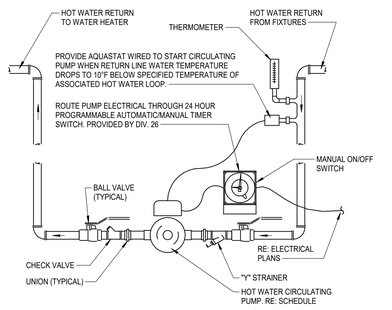


NOTES:
1. TRAP GUARD SHALL BE FACTORY FITTED TO MATCH EACH FLOOR DRAIN (AND/FLOOR SINK) BY SIZE, MODEL, AND MANUFACTURER.
2. CONTACT LOCAL REP OR MANUFACTURER FOR CORRECT MODEL NUMBER.
3. FLOOR SINK TRAP GUARD INSTALLATION IS SIMILAR.
4. INSTALLATION OF TRAP GUARD TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. INSERT TRAP GUARD ONLY AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS TITE SEAL. FOR DRAIN RODDING AFTER INSTALLATION, INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.

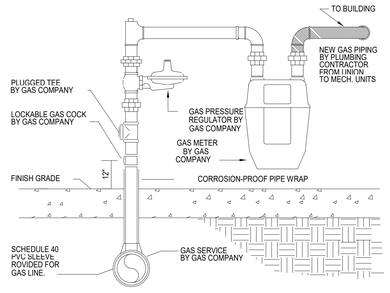
7 TRAP SEAL PROTECTION
SCALE: NONE



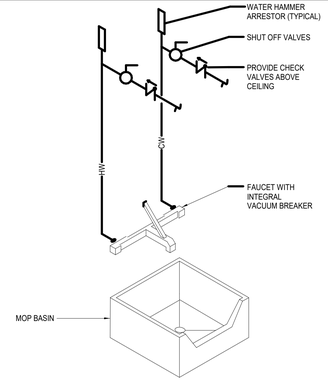
3 TWO-WAY EXTERIOR CLEANOUT
SCALE: NONE



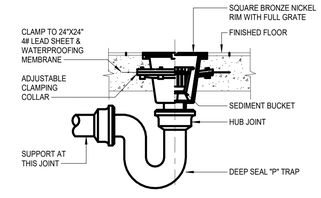
17 HOT WATER CIRCULATING PUMP
SCALE: NONE



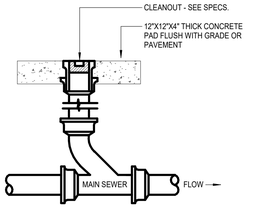
14 GAS SERVICE DETAIL
SCALE: NONE



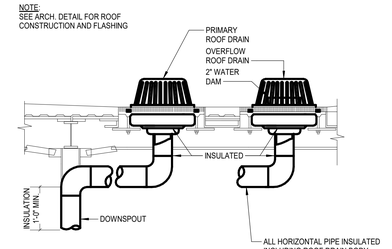
10 MOP SINK
SCALE: NONE



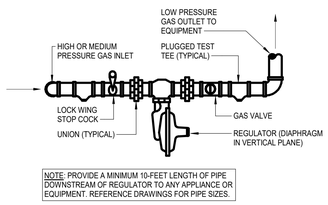
6 FLOOR SINK
SCALE: NONE



2 EXTERIOR CLEANOUT
SCALE: NONE



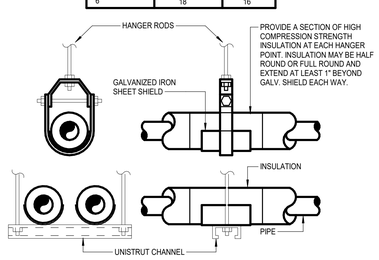
16 STORM DRAIN INSULATION
SCALE: NONE



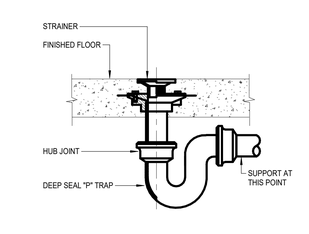
NOTE: PROVIDE A MINIMUM 10-FEET LENGTH OF PIPE DOWNSTREAM OF REGULATOR TO ANY APPLIANCE OR EQUIPMENT. REFERENCE DRAWINGS FOR PIPE SIZES.

13 GAS PRESSURE REGULATOR PIPING
SCALE: NONE

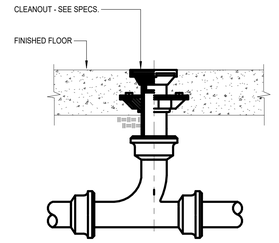
MINIMUM DIMENSIONS OF GALVANIZED SHEETMETAL PROTECTION SHIELDS AT PIPE HANGERS		
NOMINAL SIZE PIPE	SHIELD LENGTH (IN.)	GAUGE THICKNESS
1/2" & 3/4"	12	18
1" - 2-1/2"	12	18
3" - 4"	16	18
6"	18	16



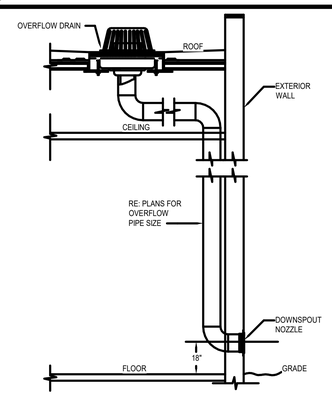
9 PIPE SHIELDS FOR INSULATED PIPING
SCALE: NONE



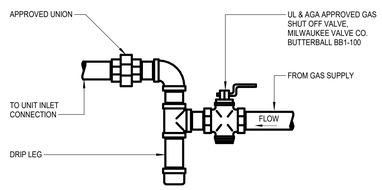
5 FLOOR DRAIN
SCALE: NONE



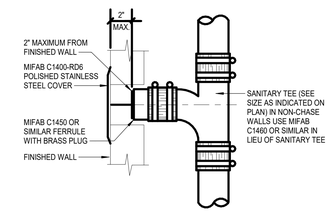
1 FLOOR CLEANOUT
SCALE: NONE



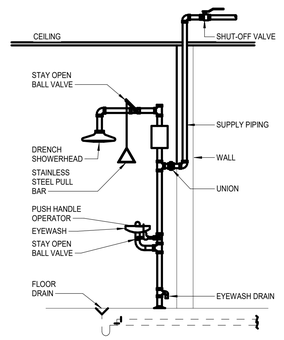
15 DOWNSPOUT NOZZLE
SCALE: NONE



12 GAS CONNECTION
SCALE: NONE



8 WALL CLEANOUT
SCALE: NONE



4 EMERGENCY SHOWER / EYEWASH CONNECTION
SCALE: NONE

ISSUE FOR PROPOSALS

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DALLAS, TEXAS 75204
214.528.8704
BRWARCH.COM

STATE OF TEXAS
KEITH W. GASSMAN
89636
REGISTERED
01/20/2026

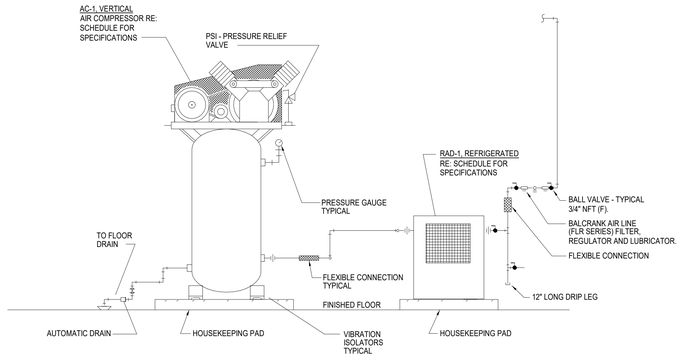
Salas O'Brien
salasobrien.com
1900 Becker Drive, Suite 200
Irving, TX 75062
Registration: F-41111
Project No: 2650-01468
972-812-1270

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BROWN REYNOLDS WATFORD ARCHITECTS, INC.
DATE JANUARY 20, 2026
DRAWN BY AW
CHECKED BY AT
BRW PROJECT NUMBER 225057.00

WESTLAKE ACADEMY
ARTS & SCIENCES ADDITION
2600 J.T. OTTINGER RD.
WESTLAKE, TX 76262

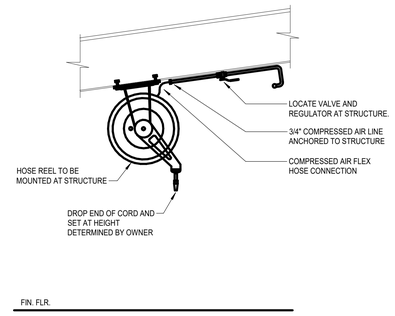
NO.	REVISION	DATE

P6.1
PLUMBING DETAILS



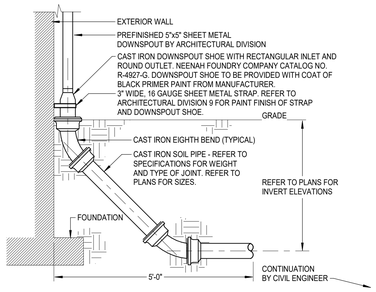
8 AIR COMPRESSOR PIPING

SCALE: NONE



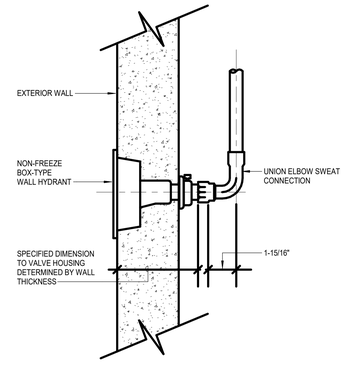
3 HOSE REEL MOUNTING

SCALE: NONE



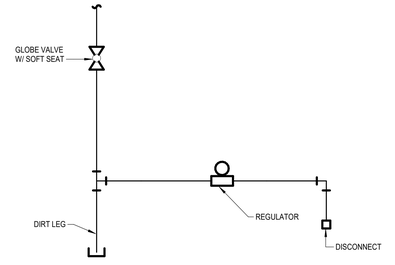
7 DOWNSPOUT SHOE CONNECTION

SCALE: NONE



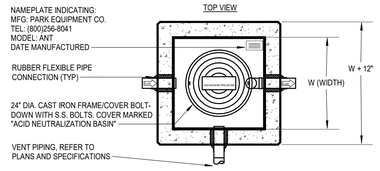
5 NON-FREEZE WALL HYDRANT CONNECTION

SCALE: NONE

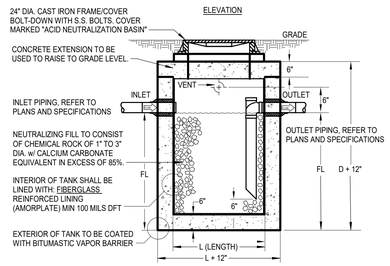


2 COMPRESSED AIR CONNECTION

SCALE: NONE



PHYSICAL CHARACTERISTICS						Flow gal/hr	Lab Stations
MODEL	GAL	DIA	D	FL	WT lbs.		
ANT100	100	36"	36"	24"	3,000	200	20



SPECIFICATIONS:

CONCRETE: CLASS 1 CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH.

REINFORCEMENT: GRADE 60 REINFORCED WITH STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.

C.I. CASTINGS: MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF GRAY CAST IRON CONFORMING TO ASTM A48-76 CLASS 30. MANHOLE SHALL HAVE 24 INCH INSIDE DIAMETER AND BE TRAFFIC DUTY.

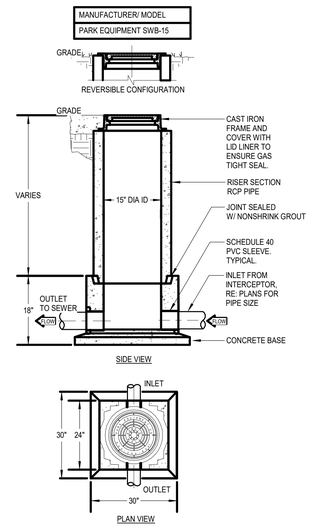
ENGINEERING DATA:
NEUTRALIZATION TANK IS STRUCTURALLY AND HYDRAULICALLY ENGINEERED CONFORMING TO UNIFORM PLUMBING CODE. REFER TO SIZING TABLE FOR CAPACITY. FIELD EXCAVATION AND PREPARATION SHALL BE COMPLETED PRIOR TO DELIVERY OF INTERCEPTOR. USE DIMENSIONAL DATA AS SHOWN.

6 CONCRETE ACID NEUTRALIZATION TANK

SCALE: NONE

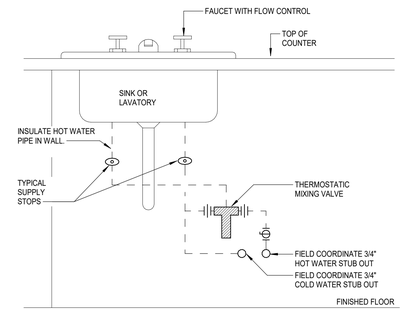
NOTES AND SPECIFICATIONS:

1. USE 15" T&G R.C.P. FOR INSTALLATION FOR INSTALLATION 6'-0" DEEP AND LESS.
2. USE 24" T&G R.C.P. FOR INSTALLATION GREATER THAN 6'-0" DEEP. (STANDARD RING AND M.H. COVER REQUIRED)
3. SAMPLING WELL MUST BE SET IN A CIRCULAR OR SQUARE CONCRETE PAD (1'-0" GREATER THAN OUTSIDE DIAMETER OF PIPE.)
4. LAWN INSTALLATION MUST BE 4" ABOVE FINISHED GRADE.
5. DRIVE & SIDEWALK INSTALLATION MUST BE BROUGHT TO FINISHED GRADE
6. CONCRETE SHALL BE CLASS 1 WITH A DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT SHALL BE OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH.
7. CAST IRON FRAMES AND GRATES SHALL BE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48-76 CLASS 30, HEAVY DUTY AASHTO H-20.



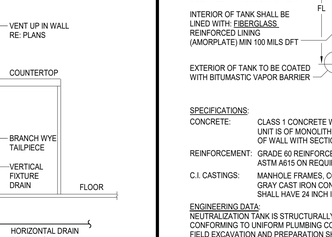
4 SAMPLE WELL

SCALE: NONE



THERMOSTATIC MIXING VALVE PIPING AT SINK OR LAVATORY

1 SCALE: NONE



NOTE: PROVIDE 1-1/2" BRANCH WYE TAILPIECE AND MAINTAIN ALL REQUIRED T.A.S. CLEARANCES.

9 DISHWASHER CONNECTION

SCALE: NONE

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01/20/2026

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Project No: 2650-01468

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DATE JANUARY 20, 2026
DRAWN BY AW
CHECKED BY AT
BRW PROJECT NUMBER 225057.00

WESTLAKE ACADEMY
ARTS & SCIENCES
ADDITION
2600 I.T. OTTINGER RD.
WESTLAKE, TX 76262

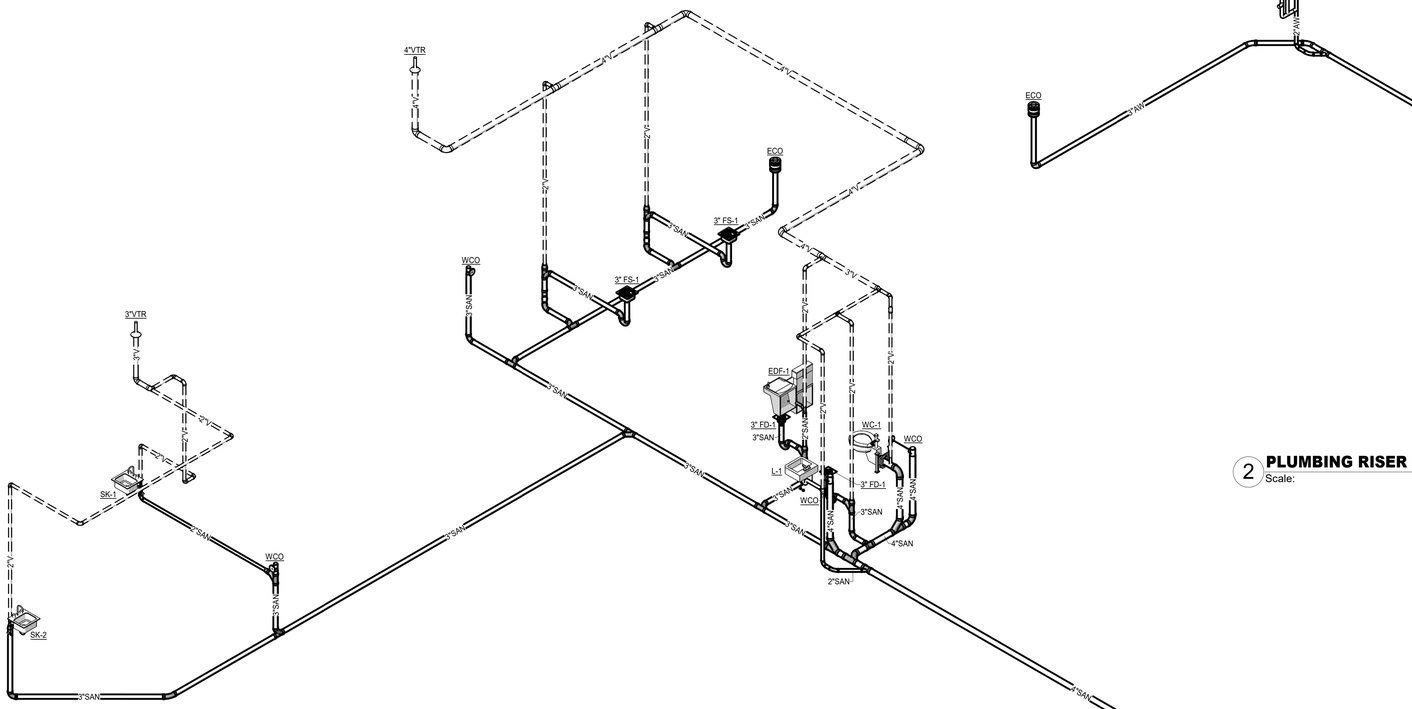
NO.	REVISION	DATE

P6.2

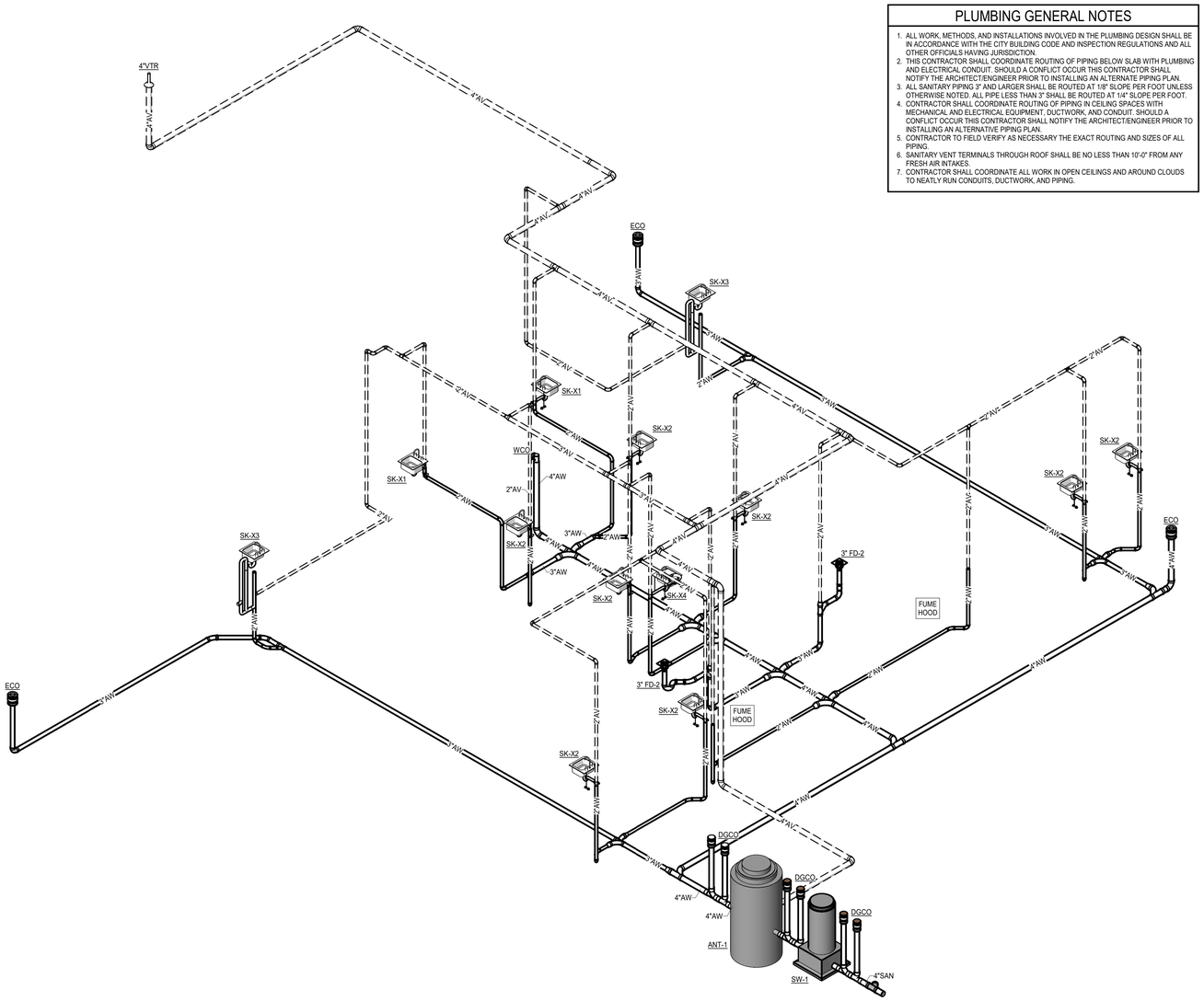
PLUMBING DETAILS

PLUMBING GENERAL NOTES

1. ALL WORK, METHODS, AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2. THIS CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH PLUMBING AND ELECTRICAL CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
3. ALL SANITARY PIPING 3" AND LARGER SHALL BE ROUTED AT 1/8" SLOPE PER FOOT UNLESS OTHERWISE NOTED. ALL PIPE LESS THAN 3" SHALL BE ROUTED AT 1/4" SLOPE PER FOOT.
4. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK, AND CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATIVE PIPING PLAN.
5. CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
6. SANITARY VENT TERMINALS THROUGH ROOF SHALL BE NO LESS THAN 10'-0" FROM ANY FRESH AIR INTAKES.
7. CONTRACTOR SHALL COORDINATE ALL WORK IN OPEN CEILINGS AND AROUND CLOUDS TO NEATLY RUN CONDUITS, DUCTWORK, AND PIPING.



1 **PLUMBING RISER DIAGRAM - SANITARY WASTE & VENT - ENTIRE BUILDING**
Scale:



2 **PLUMBING RISER DIAGRAM - ACID WASTE & VENT - ENTIRE BUILDING**
Scale:

ISSUE FOR PROPOSALS

BRWARCHITECTS
3535 TRAVIS STREET
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BRWARCH.COM

Salas O'Brien
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1900 Becker Drive, Suite 200
Irving, TX 75062
Registration: F-431111
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STATE OF TEXAS
KEITH W. GASSMAN
89636
REGISTERED
ARCHITECT
01/20/2026

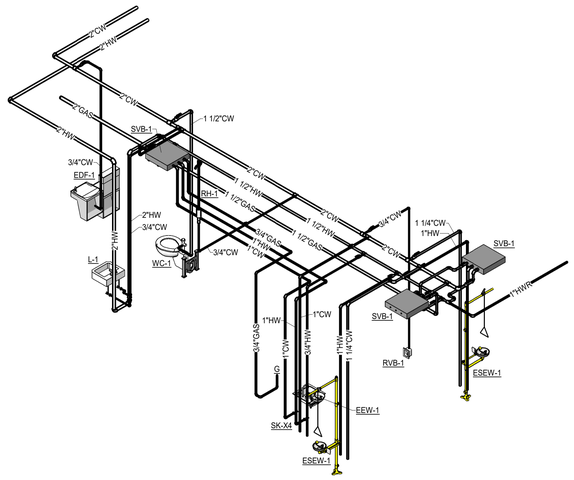
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2600 J.T. OTTINGER RD.
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NO.	REVISION	DATE

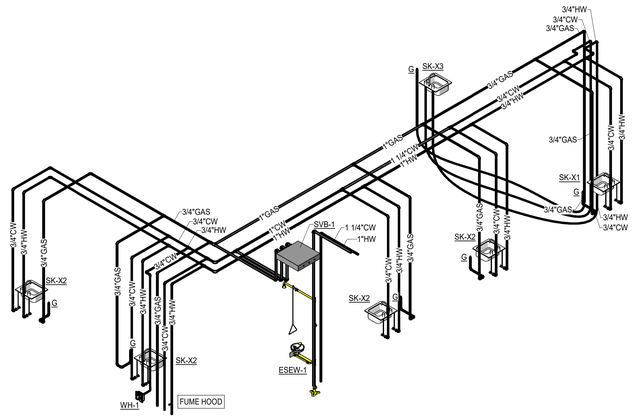
P7.1
PLUMBING RISER

PLUMBING GENERAL NOTES

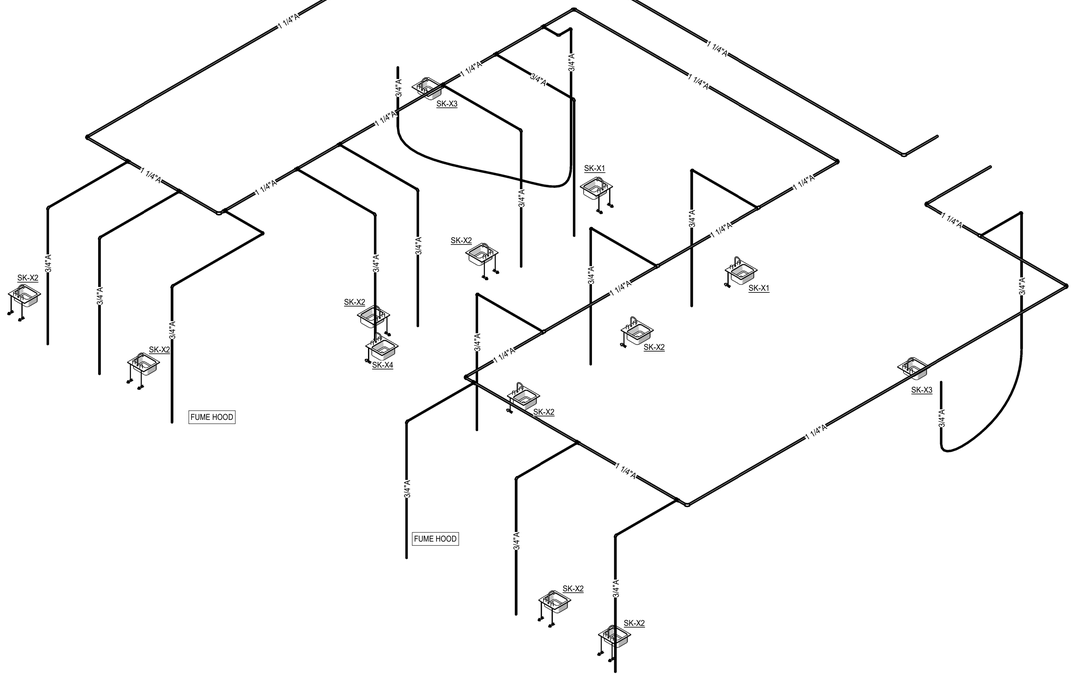
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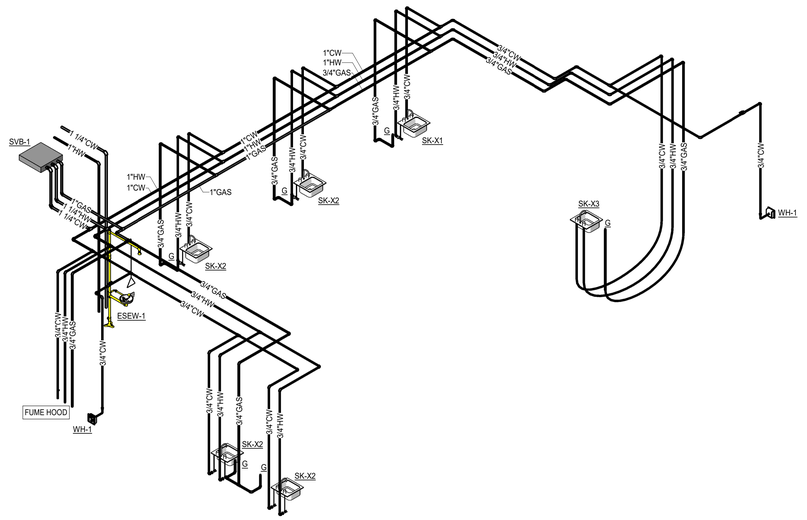
4 **PLUMBING RISER DIAGRAM - DOMESTIC WATER - TOILET & LAB PREP 519**
Scale:



2 **PLUMBING RISER DIAGRAM - DOMESTIC WATER & GAS - CHEMISTRY LAB 515**
Scale:



3 **PLUMBING RISER DIAGRAM - COMPRESSED AIR - CHEM LAB 515, PREP ROOM 519, BIO LAB 520**
Scale:



1 **PLUMBING RISER DIAGRAM - DOMESTIC WATER & GAS - BIOLOGY LAB 520**
Scale:

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P7.2
PLUMBING RISER

PLUMBING GENERAL NOTES

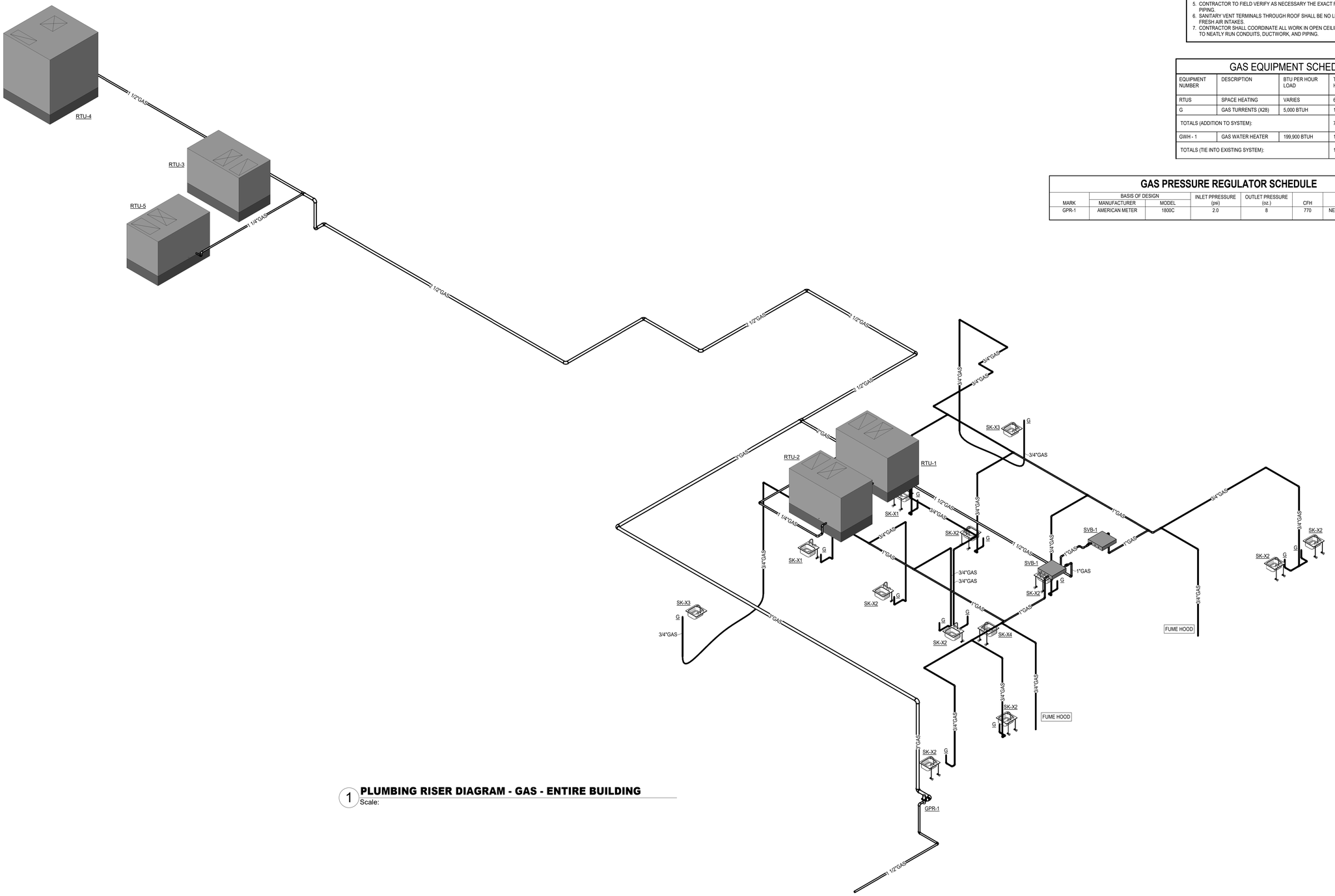
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GAS EQUIPMENT SCHEDULE

EQUIPMENT NUMBER	DESCRIPTION	BTU PER HOUR LOAD	TOTAL BTU PER HOUR	TOTAL CFH
RTUS	SPACE HEATING	VARIES	630,000 BTUH	630 CFH
G	GAS TURRENTS (X28)	5,000 BTUH	140,000 BTUH	140 CFH
TOTALS (ADDITION TO SYSTEM):			770,000 BTUH	770 CFH
GWH - 1	GAS WATER HEATER	199,900 BTUH	199,900 BTUH	200 CFH
TOTALS (TIE INTO EXISTING SYSTEM):			199,900 BTUH	200 CFH

GAS PRESSURE REGULATOR SCHEDULE

MARK	BASIS OF DESIGN		INLET PPRESSURE (psi)	OUTLET PRESSURE (oz.)	CFH	SERVICES
	MANUFACTURER	MODEL				
GPR-1	AMERICAN METER	1800C	2.0	8	770	NEW ADDITION - ROOFTOP UNITS, SCIENCE LABS



1 **PLUMBING RISER DIAGRAM - GAS - ENTIRE BUILDING**
Scale:

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3535 TRAVIS STREET
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STATE OF TEXAS
KEITH W. GASSMAN
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P7.3
PLUMBING RISER

⬡ MECHANICAL KEYED NOTES ⬡

1	EXISTING CONTROLS DEVICE AND ASSOCIATED WIRING TO BE RELOCATED.
2	REMOVE AND DISCARD EXISTING CEILING MOUNTED AIR DEVICE.
3	REMOVE AND DISCARD EXISTING RETURN AIR GRILLE AND PLENUM.
4	REMOVE AND DISCARD EXISTING DUCTWORK.
5	EXISTING DUCTWORK TO REMAIN. PROTECT DURING CONSTRUCTION.
6	REMOVE AND DISCARD EXISTING GAS WATER HEATER FLUE COMBUSTION AND INTAKE DUCTS.
7	REMOVE AND DISCARD EXISTING GAS WATER HEATER FLUES UP THRU ROOF AND CONCENTRIC VENT KIT. MAINTAIN EXISTING ROOF PENETRATIONS FOR FUTURE REUSE.

MECHANICAL DEMOLITION NOTES

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE BASE PROPOSAL SHALL INCLUDE MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY THE STATE AND LOCAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A PROPOSAL WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION AND CODE/REQUIREMENTS REVIEW BEEN MADE, WILL NOT BE ACCEPTED.
2. ALL EQUIPMENT AND MATERIAL WITHIN AREAS IDENTIFIED TO BE DEMOLISHED OR REUSED ON ARCHITECTURAL PLANS SHALL BE DISCONNECTED AND REMOVED, UNLESS IDENTIFIED OTHERWISE. ALL EQUIPMENT AND MATERIAL NOT TO BE REUSED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF IN A PROPER MANNER. ALL EQUIPMENT AND MATERIALS TO BE DISPOSED OF SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS, IN ADDITION TO REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION AGENCIES AND/OR ANY OTHER GOVERNING AUTHORITY.
3. DURING DEMOLITION, THE FIRE ALARM SYSTEMS SHALL REMAIN IN FULL OPERATING CONDITION TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL INCLUDE ALL REQUIRED DESIGN, LABOR, AND MATERIALS IN ORDER TO KEEP THESE SYSTEMS FUNCTIONAL. ALL DESIGNS SHALL BE DONE BY A LICENSED FIRE SPRINKLER AND FIRE ALARM CONTRACTOR.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISCONNECT AND REMOVE ALL EXISTING HVAC EQUIPMENT AND ASSOCIATED CURBS, PADS, DUCTWORK, AIR DEVICES, PIPING, CONTROLS, ETC. WITHIN THE AREA IDENTIFIED TO BE DEMOLISHED. COORDINATE ALL PATCHING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.
5. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. THIS INCLUDES BUT IS NOT LIMITED TO AIR HANDLING UNITS, FANS, AND AIR DEVICES.
6. COORDINATE ALL TEMPORARY SERVICE INTERRUPTIONS WITH OWNER. SCHEDULE FOR MINIMAL INTERRUPTION OF SERVICE AT OWNER'S SCHEDULED TIME.



N

1 **MECHANICAL PLAN - LEVEL 1 - DEMO**
Scale: 1/8" = 1'-0"

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3535 TRAVIS STREET
SUITE 100
DALLAS, TEXAS 75204
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STATE OF TEXAS
KEITH W. GASSMAN
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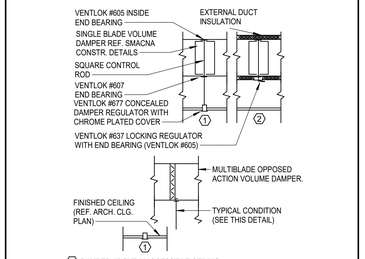
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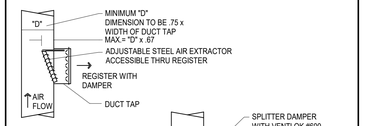
MD1.1
OVERALL - MECHANICAL PLAN - LEVEL 1 - DEMO

DUCTWORK CONSTRUCTION DETAILS



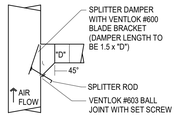
1 **DAMPER ABOVE INACCESSIBLE CEILING**

2 **DAMPER ABOVE LIFT-OUT CEILING**

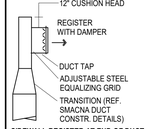


NOTES:
1. MAX. WIDTH OF DUCT TAP SHALL BE 48". PROVIDE BOTTOM BRACKET FOR SUPPORT WHERE EXTRACTOR EXCEEDS 16".
2. MAX. HEIGHT OF DUCT TAP SHALL BE 12" (MIN.= 4")

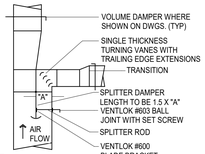
EXTRACTOR SIDEWALL REGISTER



DUCT TAP



SIDEWALL REGISTER AT END OF DUCT



SPLITTER

SYMBOL LEGEND

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
#	KEY NOTE TAG
A	REVISION TAG
	NEW EQUIPMENT
DUCTWORK	
	SUPPLY AIR DUCTWORK
	RETURN AIR AND OUTSIDE AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	RETURN AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
SD	SMOKE DAMPER (VERTICAL)
SD	SMOKE DAMPER (HORIZONTAL)
FSD	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
FSD	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
M	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
SENSORS	
T	THERMOSTAT AND TEMPERATURE SENSOR
H	HUMIDISTAT
SD	SMOKE DETECTOR
HD	HEAT DETECTOR
AIR DEVICES	
	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
	SUPPLY AIR GRILLE WITH THREE-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
	SUPPLY AIR GRILLE WITH ONE-WAY THROW
	RETURN AIR GRILLE
	RETURN AIR GRILLE WITH SOUND BOOT
	EXHAUST AIR GRILLE
	SUPPLY AIR SIDEWALL GRILLE
	RETURN AIR SIDEWALL GRILLE
20X12	RETURN AIR OPENING ABOVE CEILING
PIPING	
–CWS&R–	CONDENSER WATER SUPPLY & RETURN (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
–CWS–	CONDENSER WATER SUPPLY
–CWR–	CONDENSER WATER RETURN
–CHWS&R–	CHILLED WATER SUPPLY & RETURN (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
–CHWS–	CHILLED WATER SUPPLY
–CHWR–	CHILLED WATER RETURN
–HWS&R–	HOT WATER FOR HYDRONIC HEATING SUPPLY & RETURN (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
–HWS–	HOT WATER FOR HYDRONIC HEATING SUPPLY
–HWR–	HOT WATER FOR HYDRONIC HEATING RETURN
—D—	CONDENSATE DRAIN LINE
—AD—	AUXILIARY CONDENSATE DRAIN LINE
—RLR—	REFRIGERANT LIQUID & GAS RECIRCULATION LINE (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
—RL—	REFRIGERANT LIQUID LINE
—HG—	REFRIGERANT HOT GAS LINE
—RS—	REFRIGERANT SUCTION LINE
—O	ELBOW UP
	ELBOW DOWN
	90° ELBOW
	45° ELBOW
	TEE
	TEE DOWN
	TEE UP
	TOP BRANCH CONNECTION
	BOTTOM BRANCH CONNECTION
	FLANGE
	CAP
	CONTINUATION
	FLOOR DRAIN (REFER TO PLUMBING DRAWINGS)
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	BUTTERFLY VALVE WITH OPERATOR
	PLUG VALVE
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
PR	PRESSURE RELIEF VALVE
	BALL VALVE
	STRAINER
	UNION
	THERMOMETER WELL
	PETE'S PLUG
	PRESSURE GAUGE
	TEMPERATURE SENSOR IN PIPE
	VENTURI FLOW METER
	FLOW SWITCH
FM	FLOW MEASURING STATION
	EXPANSION JOINT
	FLEXIBLE CONNECTION
G.C.	GAUGE COCK
	SITE GLASS
	DIFFERENTIAL PRESSURE SENSOR
	TURBINE FLOW METER
	ANCHOR
	PIPE GUIDE

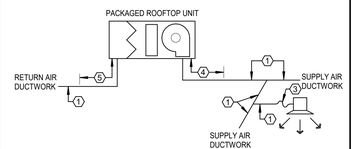
SUBSCRIPTS AND ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
BBS	BELOW BOTTOM OF STRUCTURE
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CO	CLEANOUT
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
FPM	FEET PER MINUTE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
RENOVATIONS	
	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

DAMPER

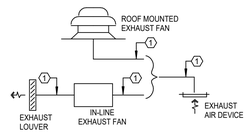
MARK	ACTUATOR	DUTY	BLADE ACTION	MANUFACTURER	MODEL NUMBER	REMARKS
D-1	MANUAL BALANCING	UNDER 9" WIDE	N/A	N/A	N/A	SEE SMACNA CONSTRUCTION DETAILS REFERENCED "TYPICAL CONSTRUCTION DETAILS FOR LOW VELOCITY DUCTS."
D-2	MANUAL BALANCING	OVER 9" WIDE	OPPOSED	RUSKIN	MD-35	MANUAL DAMPER WITH STANDARD CONSTRUCTION FEATURES AND VENTLOCK #639 LOCKING REGULATOR.
D-3	MOTORIZED	OVER 9" WIDE	OPPOSED	RUSKIN	CD-60	LOW LEAKAGE DAMPER WITH BLADE SEALS

NOTES:
N/A - NOT APPLICABLE

DUCT LINER AND INSULATION



PACKAGED ROOFTOP UNIT

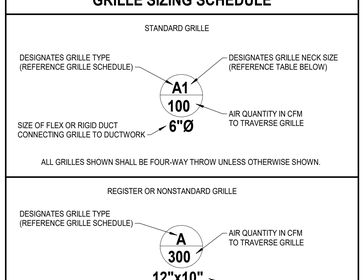


EXHAUST AIR SYSTEMS

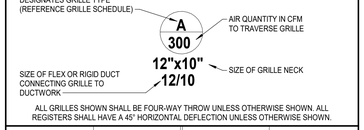
KEYED NOTES:

1. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
2. SHEETMETAL DUCTWORK RETURN AIR PLENUM WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
3. FLEXIBLE DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
4. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT DISCHARGE TO 10'-0" DOWNSTREAM.
6. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT INLET TO 10'-0" UPSTREAM.

GRILLE SIZING SCHEDULE



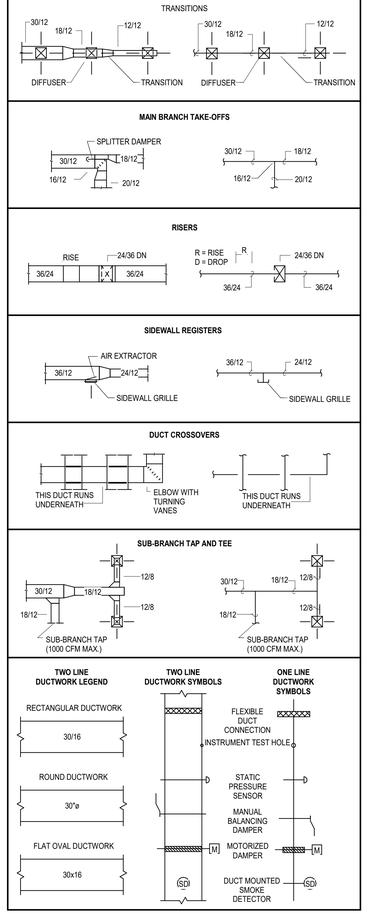
ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN.



ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN. ALL REGISTERS SHALL HAVE A 45° HORIZONTAL DEFLECTION UNLESS OTHERWISE SHOWN.

GRILLE SIZE DESIGNATION	GRILLE NECK SIZE	GRILLE SIZE DESIGNATION	GRILLE NECK SIZE
1	6" x 6"	7	15" x 15"
2	8" x 8"	8	16" x 16"
3	9" x 9"	9	18" x 18"
4	10" x 10"	10	20" x 20"
5	12" x 12"	11	22" x 22"
6	14" x 14"	12	24" x 24"

DUCTWORK SYMBOLS LEGEND



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CHECKED BY BR
BRW PROJECT NUMBER 225057.00

WESTLAKE ACADEMY ARTS & SCIENCES ADDITION
2650 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

M0.1
MECHANICAL LEGENDS

MECHANICAL KEYED NOTES

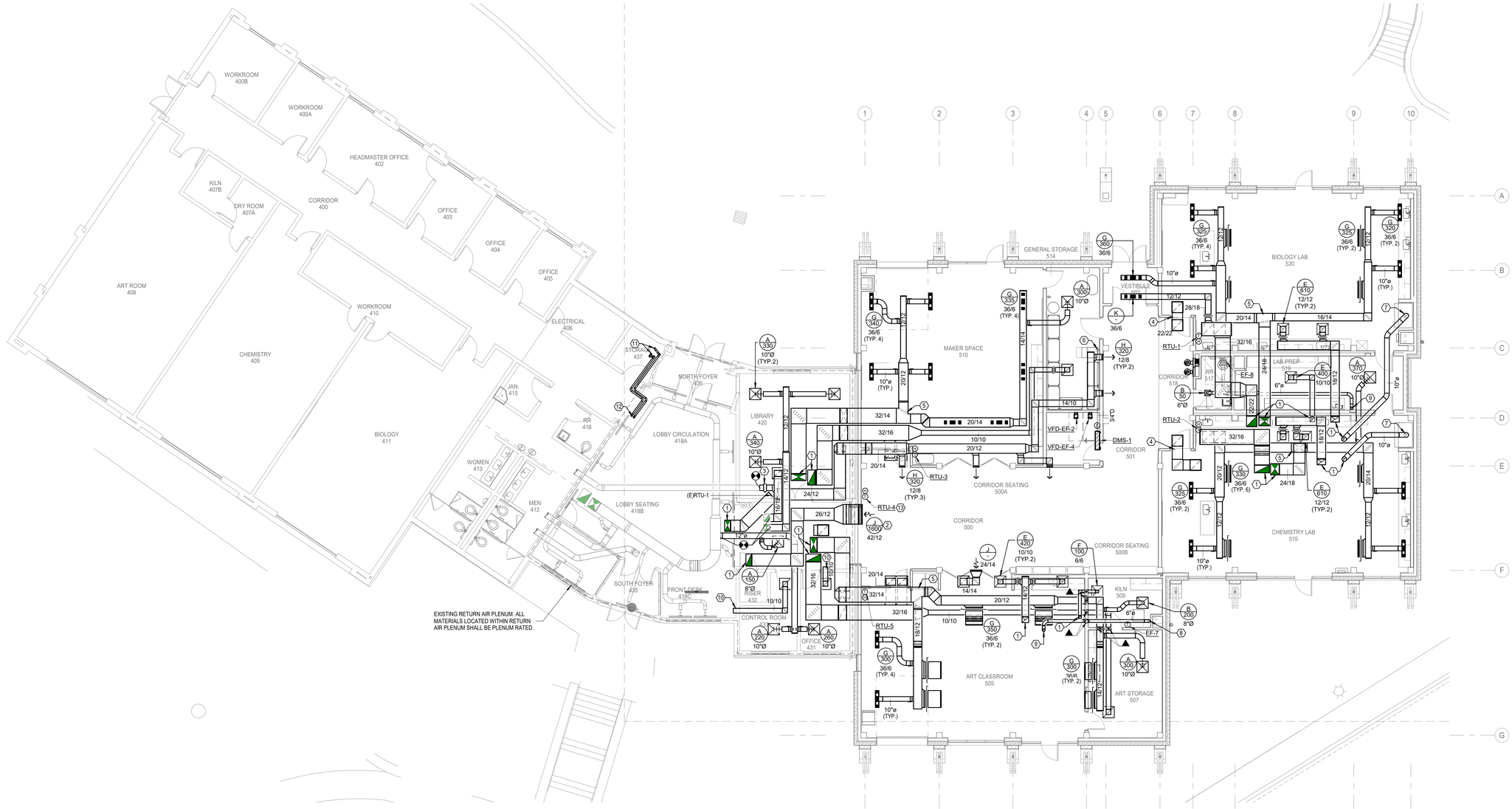
1	DUCT UP THRU ROOF. PROVIDE TRANSITION TO UNIT/FAN FULL SIZE IN DUCT RISER. COORDINATE ROUTING WITH STRUCTURE AND ALL OTHER ABOVE CEILING TRADES.
2	MOUNT DIFFUSER ON WALL AT 9'-1" AFF TO CENTER.
3	RELOCATED EXISTING MOTORIZED DAMPER.
4	LINED TRANSFER AIR DUCT. RE: 16/M6.1 FOR MORE INFORMATION.
5	PROVIDE TEE WITH SPLITTER DAMPER.
6	ROUTE 3/4" CONDENSATE PIPING DOWN TO FLOOR SINK. RE: PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
7	CONNECT 10"Ø EXHAUST DUCTWORK TO FUME HOOD. COORDINATE ALL REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND FUME HOOD MANUFACTURER.
8	PROVIDE 6"Ø FLEX CONNECTION FROM DOWNDRAFT KILN TO WALL MOUNTED EXHAUST FAN. REFER TO ARCHITECTURAL SPECIFICATIONS FOR KILN AND FAN REQUIREMENTS.
9	EXHAUST DUCT UP THRU ROOF. COORDINATE ROUTING WITH STRUCTURE AND ALL OTHER ABOVE CEILING TRADES.
10	LINED TRANSFER AIR DUCT. RE: 15/M6.1 FOR MORE INFORMATION.
11	CONNECT FLUE EXHAUST AND COMBUSTION INTAKE DUCTS TO GAS WATER HEATER. SIZE PER MANUFACTURER'S RECOMMENDATION.
12	ROUTE FLUE EXHAUST AND COMBUSTION INTAKE DUCTS UP THRU ROOF. MANIFOLD TOGETHER WITH MANUFACTURER'S CONCENTRIC VENT KIT PRIOR TO ROOF PENETRATION. MAINTAIN MINIMUM 10'-0" CLEARANCE FROM ANY OUTSIDE AIR INTAKES ON ROOF. REUSE EXISTING ROOF PENETRATIONS.
13	PROVIDE THERMOSTAT GUARD.

MECHANICAL GENERAL NOTES

1. REFER TO HEATING, VENTILATION AND AIR CONDITIONING SPECIFICATIONS AND GENERAL CONDITIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL DIFFUSERS AND CEILING GRILLES SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS. RE: GRILLE SCHEDULE ON SCHEDULE SHEET.
3. PROVIDE TURNING VANES IN ALL RECTANGULAR 90 DEGREE MITRED ELBOWS.
4. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR, INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
5. COORDINATE IN FIELD THE EXACT LOCATION OF ROOF MOUNTED EQUIPMENT WITH STRUCTURAL ENGINEER AND ROOFING CONTRACTOR.
6. SENSORS SHALL BE MOUNTED AT +48" A.F.F. (ABOVE FINISHED FLOOR) UNLESS OTHERWISE NOTED.
7. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
8. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
9. MECHANICAL CONTRACTOR SHALL MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ANY BUILDING EXHAUSTS OR VENTS ON THE ROOF.
10. MECHANICAL CONTRACTOR SHALL MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN MECHANICAL EQUIPMENT AND ROOF EDGES.

TYPICAL RETURN AIR GRILLE

LAY-IN: C - 22/22 — SURFACE MOUNT: D - 22/22



N

1 **MECHANICAL PLAN - LEVEL 1**
Scale: 1/8" = 1'-0"

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DRAWN BY	VP	
CHECKED BY	BR	
BRW PROJECT NUMBER		2250570.00

WESTLAKE ACADEMY
ARTS & SCIENCES ADDITION
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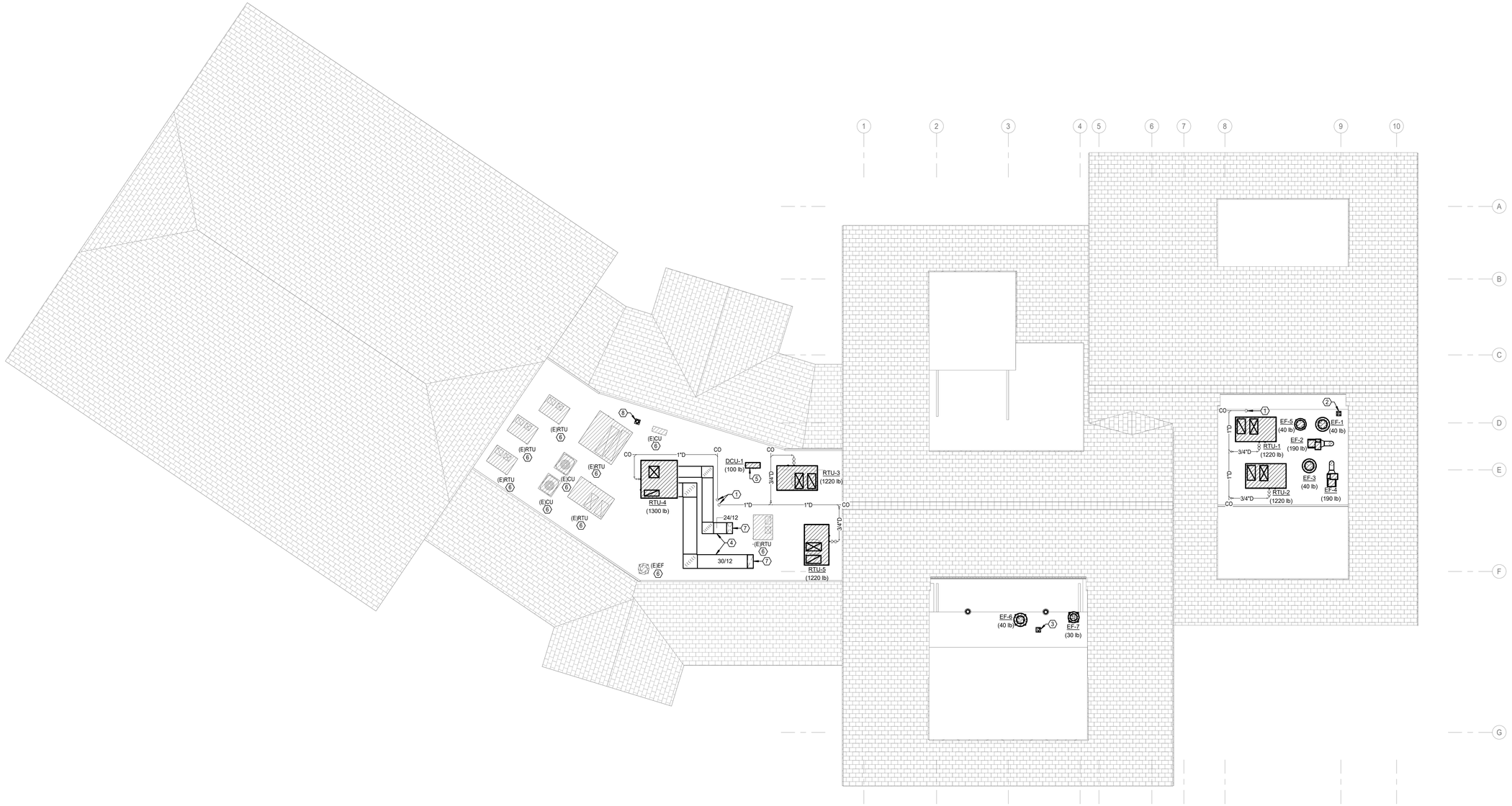
M2.1
OVERALL - MECHANICAL PLAN - LEVEL 1

⬡ MECHANICAL KEYED NOTES ⬡

1	ROUTE 1" CONDENSATE DRAIN PIPING DOWN TO PRIMARY ROOF DRAIN WITH CODE APPROVED AIR GAP.
2	EXHAUST DUCT ROOF CAP.
3	TERMINATE KILN DISCHARGE DUCT WITH GOOSENECK FITTING.
4	EXTERIOR DUCTWORK TO BE INSULATED AND JACKETED PER SPECIFICATIONS.
5	MOUNT CONDENSING UNIT ON EQUIPMENT SUPPORTS. RE: 13/M6.1 FOR MORE INFORMATION. ROUTE REFRIGERANT PIPING DOWN THRU ROOF IN PIPE COVER AS SHOWN IN DETAIL 14/M6.1. INSULATE OUTDOOR REFRIGERANT PIPING PER SPECIFICATIONS.
6	EXISTING MECHANICAL EQUIPMENT TO REMAIN. PROTECT DURING CONSTRUCTION.
7	DUCT DOWN THRU ROOF. RE: DETAIL 17/M6.1 FOR MORE INFORMATION.
8	CONCENTRIC INTAKE/EXHAUST VENT FOR GAS WATER HEATER.

MECHANICAL GENERAL NOTES

1. REFER TO HEATING, VENTILATION AND AIR CONDITIONING SPECIFICATIONS AND GENERAL CONDITIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL DIFFUSERS AND CEILING GRILLES SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS. RE: GRILLE SCHEDULE ON SCHEDULE SHEET.
3. PROVIDE TURNING VANES IN ALL RECTANGULAR 90 DEGREE MITRED ELBOWS.
4. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR, INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
5. COORDINATE IN FIELD THE EXACT LOCATION OF ROOF MOUNTED EQUIPMENT WITH STRUCTURAL ENGINEER AND ROOFING CONTRACTOR.
6. SENSORS SHALL BE MOUNTED AT +48" A.F.F. (ABOVE FINISHED FLOOR) UNLESS OTHERWISE NOTED.
7. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
8. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
9. MECHANICAL CONTRACTOR SHALL MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ANY BUILDING EXHAUSTS OR VENTS ON THE ROOF.
10. MECHANICAL CONTRACTOR SHALL MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN MECHANICAL EQUIPMENT AND ROOF EDGES.



N

1 **MECHANICAL PLAN - ROOF**
Scale: 1/8" = 1'-0"

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BRW PROJECT NUMBER 2250.57.00

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ARTS & SCIENCES ADDITION
2400 I.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

M2.2
OVERALL - MECHANICAL PLAN - ROOF

GRILLE

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESCRIPTION
A	SUPPLY AIR	DIFFUSER	-	ALUMINUM	NOTE #5	TITUS	TDC-AA	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"X24" LOUVERED FACE.
B	SUPPLY AIR	DIFFUSER	-	ALUMINUM	NOTE #5	TITUS	TDC-AA	SURFACE MOUNT CEILING FRAME STYLE WITH 24"X24" OR 12"X12" LOUVERED FACE.
C	RETURN AIR	GRILLE	-	ALUMINUM	NOTE #5	TITUS	PAR-AA	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"X24" PERFORATED FACE.
D	RETURN AIR	GRILLE	-	ALUMINUM	NOTE #5	TITUS	PAR-AA	SURFACE MOUNT CEILING FRAME STYLE WITH 24"X24" PERFORATED FACE.
E	EXHAUST AIR	GRILLE	-	ALUMINUM	NOTE #5	TITUS	PAR-AA	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"X24" PERFORATED FACE.
F	EXHAUST AIR	GRILLE	-	ALUMINUM	NOTE #5	TITUS	PAR-AA	SURFACE MOUNT CEILING FRAME STYLE WITH 24"X24" PERFORATED FACE.
G	SUPPLY AIR	DIFFUSER	-	ALUMINUM	NOTE #5	TITUS	CT-481	LINEAR BAR DIFFUSER, 1/8" THICK FIXED BARS, 15 DEGREE DEFLECTION, 1/4" SPACING WIDTH, SIZED AS NOTED (1). SUPPORT FROM STRUCTURE ABOVE CEILING.
H	SUPPLY AIR	DIFFUSER	OBD	ALUMINUM	NOTE #5	TITUS	272FS	DOUBLE DEFLECTION AEROBLADE SIDEWALL GRILLE WITH VERTICAL FRONT BARS. SURFACE MOUNTED (1). FACE SIZE AS NOTED.
J	RETURN AIR	GRILLE	-	ALUMINUM	NOTE #5	TITUS	350FL	FIXED DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1). FACE SIZE AS NOTED.
K	RETURN AIR	DIFFUSER	-	ALUMINUM	NOTE #5	TITUS	CT-481	LINEAR BAR DIFFUSER, 1/8" THICK FIXED BARS, 15 DEGREE DEFLECTION, 1/4" SPACING WIDTH, SIZED AS NOTED (1). SUPPORT FROM STRUCTURE ABOVE CEILING.

REMARKS:
1. DIFFUSER MOUNTING STYLE SHALL BE CONFIRMED WITH ARCHITECTURAL DRAWINGS, REFLECTED CEILING PLAN.
2. COORDINATE DIFFUSER DISCHARGE PATTERN WITH DRAWINGS.
3. OMIT SCREW HOLES FOR LAY-IN STYLE CEILINGS.
4. PROVIDE SQUARE/RECTANGLE TO ROUND TRANSITIONS AS NEEDED.
5. COORDINATE FINISH AND LOCATION WITH ARCHITECT.
6. MOUNT SIDEWALL RETURN AND EXHAUST GRILLES WITH BLADES DIRECTED UPWARD TO PREVENT LINE OF SIGHT THROUGH GRILLE.

BASIS OF DESIGN
THE MANUFACTURER AND MODEL NUMBER LISTED IN THE DRAWINGS OR SPECIFICATIONS ARE THE BASIS OF DESIGN. WHEN PROVIDING EQUIPMENT BY AN ACCEPTABLE MANUFACTURER THAT IS NOT BASIS OF DESIGN, THE CONTRACTOR SHALL PROVIDE AS A PART OF THE SUBMITTAL AND/OR SHOP DRAWING AN ITEMIZED LIST OF ALL MODIFICATIONS REQUIRED TO INSTALL THE NON-BASIS OF DESIGN EQUIPMENT FROM THE INFORMATION DETAILED IN BOTH THE SPECIFICATION SECTION AND EQUIPMENT SCHEDULE. ADDITIONALLY, THE EQUIPMENT MUST ADDRESS THE PHYSICAL CONSTRAINTS OF SPACE INCLUDING COORDINATION WITH OTHER TRADES AND ALL EQUIPMENT CLEARANCES. FINALLY, THE CONTRACTOR SHALL PROVIDE AT NO ADDITIONAL COST TO THE PROJECT ANY SCOPE INCREASE BASED ON THE NON-BASIS OF DESIGN EQUIPMENT FOR THE FOLLOWING MINIMUM ITEMS:

- ELECTRICAL MODIFICATIONS, INCLUDING WIRING, CONDUIT, DISCONNECTS, OVERCURRENT PROTECTION, PANELS, MOTORS, ETC.
- PLUMBING MODIFICATIONS, INCLUDING DOMESTIC WATER, SANITARY, CONDENSATE, AND GAS PIPING, ETC.
- STRUCTURAL MODIFICATIONS
- CIVIL MODIFICATIONS
- DUCT AND PIPE CONNECTIONS OR ARRANGEMENTS
- SPACE HEATING AND COOLING REQUIREMENTS
- EXHAUST OR VENTILATION REQUIREMENTS
- VIBRATION ISOLATION REQUIREMENTS
- CONTROLS REQUIREMENTS TO MEET SPECIFICATIONS

PACKAGED ROOFTOP UNIT - GAS HEAT

MARK	FAN							COOLING					HEATING					BASIS OF DESIGN				WEIGHT (LBS)	REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHAR			AIR TEMPERATURE (°F)			TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	MINIMUM EER/ IEER	NUMBER OF STAGES	ENTERING AIR TEMP (°F)	INPUT (BTUH)	OUTPUT (BTUH)	AFUE %	NUMBER OF STAGES	MANUFACTURER	MODEL	MCA	MOCP		
					V	P	F	ENTERING DRY BULB	ENTERING WET BULB	AMBIENT TEMP														
RTU-1	3,000	505	0.70	3.0	480	3	60	80.1	64.8	105.0	81,240	73,970	11.0/15.1	3	61.9	120,000	97,200	81	2	TRANE	YSK090	22	25	1,220	1,2,3,4,5,6,7,8,9,10
RTU-2	3,000	500	0.60	3.0	480	3	60	80.0	64.8	105.0	81,240	73,970	11.0/15.1	3	61.9	120,000	97,200	81	2	TRANE	YSK090	22	25	1,220	1,2,3,4,5,6,7,8,9,10
RTU-3	3,000	455	0.65	3.0	480	3	60	79.6	64.8	105.0	81,240	73,970	11.0/15.1	3	61.9	120,000	97,200	81	2	TRANE	YSK090	22	25	1,220	1,2,3,4,5,6,7,8,9,10
RTU-5	3,000	495	0.60	3.0	480	3	60	80.0	64.8	105.0	81,240	73,970	11.0/15.1	3	61.9	120,000	97,200	81	2	TRANE	YSK090	22	25	1,220	1,2,3,4,5,6,7,8,9,10

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HEATERS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICAL CONTRACTOR.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH WEATHER-PROOF DISCONNECT SWITCH, FULL PERIMETER ROOF CURB AND HAIL GUARD. DISCONNECT SWITCH SHALL MEET WORK CLEARANCE REQUIREMENT PER NEC. COORDINATE EXACT REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO PLACING THE UNITS ON THE ROOF.
2. PROVIDE WITH FACTORY INSTALLED NON-POWERED WEATHER-PROOF 115V GFCI CONVENIENCE OUTLET WITH LISTED WHILE-IN-USE COVER.
3. PROVIDE WITH SINGLE POINT ELECTRICAL CONNECTION THROUGH CURB BASE.
4. PROVIDE WITH LOW AMBIENT CONTROL.
5. PROVIDE A WATER LEVEL SENSING DEVICE (FLOAT SWITCH) IN THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE APPLIANCE IN THE EVENT THE PRIMARY DRAIN LINE BECOMES RESTRICTED.
6. PROVIDE STAINLESS STEEL HEAT EXCHANGER.
7. SINGLE ZONE VARIABLE AIR VOLUME UNIT WITH VARIABLE SPEED FAN.
8. PROVIDE HOT-GAS REHEAT COIL AND HUMIDISTAT FOR HUMIDITY CONTROL.
9. PROVIDE LOW LEAK ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF DAMPER.
10. PROVIDE WITH DUCT MOUNTED SMOKE DETECTOR WIRED FOR FAN SHUTDOWN AND INTERLOCKED WITH FIRE ALARM SYSTEM.

HIGH OUTSIDE AIR PACKAGED ROOFTOP UNIT - GAS HEAT

MARK	FAN								COOLING					HEATING					BASIS OF DESIGN				WEIGHT	REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHARAC.			AIR TEMPERATURE (°F)			TOTAL CAPACITY (BTUH)	SENSIBLE COOLING (BTUH)	MINIMUM ISMRE2	NUMBER OF STAGES	ENTERING AIR TEMP (°F)	INPUT (BTUH)	OUTPUT (BTUH)	AFUE %	NUMBER OF STAGES	MANUFACTURER	MODEL	MCA	MOCP		
					V	PH	F	ENTERING DRY BULB	ENTERING WET BULB	AMBIENT TEMP														
RTU-4	1,600	1,600	0.50	1.0	480	3	60	83.0	78.0	83.0	128,200	49,200	3.8	MOD	22.0	150,000	121,500	81	2	AAON	RNA-010	28	35	1300	ALL

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HEATERS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICAL CONTRACTOR.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH WEATHER-PROOF DISCONNECT SWITCH AND HAIL GUARD. DISCONNECT SWITCH SHALL MEET WORK CLEARANCE REQUIREMENT PER NEC. COORDINATE EXACT REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO PLACING THE UNITS ON THE ROOF.
2. PROVIDE WITH FACTORY INSTALLED NON-POWERED WEATHER-PROOF 115V GFCI CONVENIENCE OUTLET WITH LISTED WHILE-IN-USE COVER.
3. PROVIDE WITH SINGLE POINT ELECTRICAL CONNECTION THROUGH CURB BASE.
4. PROVIDE WITH LOW AMBIENT CONTROL.
5. PROVIDE A WATER LEVEL SENSING DEVICE (FLOAT SWITCH) IN THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE APPLIANCE IN THE EVENT THE PRIMARY DRAIN LINE BECOMES RESTRICTED.
6. PROVIDE STAINLESS STEEL HEAT EXCHANGER AND STEEL COIL CASINGS.
7. PROVIDE WITH VARIABLE FREQUENCY DRIVE, VARIABLE CAPACITY COMPRESSOR(S), AND LEAVING EVAPORATOR COIL TEMPERATURE SENSOR TO MAINTAIN 50°F DEW POINT OFF THE EVAPORATOR COIL. CONSTANT AIR VOLUME UNIT. UNIT SHALL MAINTAIN SCHEDULED DEW POINT WITHIN +/- 0.3°F AND MAINTAIN HOT-GAS REHEAT LEAVING AIR TEMPERATURES BETWEEN 70-75°F AT ALL AHRI 920-2020 ENTERING AIR CONDITIONS.
8. PROVIDE MODULATING HOT-GAS REHEAT COIL AND HUMIDISTAT FOR HUMIDITY CONTROL.
9. PROVIDE LOW LEAK ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF DAMPER AND MOTORIZED RETURN AIR DAMPER.
10. PROVIDE WITH DUCT MOUNTED SMOKE DETECTOR WIRED FOR FAN SHUTDOWN AND INTERLOCKED WITH FIRE ALARM SYSTEM.
11. PROVIDE UNIT WITH SIDE DISCHARGE ROOF CURB.

FAN SCHEDULE

MARK	LOCATION	CFM	EXT. STATIC PRESSURE (IN.W.C.)	MAX RPM	HORSE POWER	CURRENT CHAR			LOCALLY SWITCHED	INTERLOCK WITH	FAN TYPE	DRIVE TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
						V	P	F							
EF-1	520 - BIOLOGY	1220	0.50	1,882	0.50	120	1	60	TIMER SWITCH	-	ROOF MOUNTED	DIRECT	COOK	ACRUD	1,2,3,5,8
EF-2	520 - BIOLOGY	1,100	0.75	2,303	0.75	480	3	60	HOOD SWITCH	-	VENT SET	BELT	COOK	CPS	1,2,6,7,9,10,11
EF-3	515 - CHEMISTRY	1220	0.50	1,882	0.50	120	1	60	TIMER SWITCH	-	ROOF MOUNTED	DIRECT	COOK	ACRUD	1,2,3,5,8
EF-4	515 - CHEMISTRY	1,100	0.75	2,303	0.75	480	3	60	HOOD SWITCH	-	VENT SET	BELT	COOK	CPS	1,2,6,7,9,10,11
EF-5	519 - LAB PREP	400	0.25	2,024	0.33	120	1	60	CONTINUOUS	-	ROOF MOUNTED	DIRECT	COOK	ACRUD	1,2,5,11
EF-6	505 - ART	840	0.50	2,018	0.50	120	1	60	TIMER SWITCH	-	ROOF MOUNTED	DIRECT	COOK	ACED	1,2,3,5,8
EF-7	509 - KILN	100	0.25	1,414	0.13	120	1	60	THERMOSTAT	-	ROOF MOUNTED	DIRECT	COOK	ACED	1,2,3,5
EF-8	517 - RESTROOM	75	0.20	760	0.13	120	1	60	LIGHTS	-	CEILING	DIRECT	COOK	GC	1,4,5,11

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH DISCONNECT.
2. PROVIDE WITH ROOF CURB AND BIRD SCREEN.
3. PROVIDE WITH MOTORIZED DAMPER.
4. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE NEOPRENE ISOLATION. REFER TO MANUFACTURER FOR MORE DETAILS.
5. PROVIDE WITH SPEED CONTROLLER.
6. PROVIDE WITH SPARK RESISTANT CONSTRUCTION.
7. PROVIDE WITH INLET CURB, HIGH VELOCITY DISCHARGE NOZZLE, AND DRAIN AT BOTTOM OF HOUSING.
8. PROVIDE 1-HOUR MARK TIMER SWITCH FOR CONTROL.
9. PROVIDE SWITCH ON FUME HOOD TO CONTROL FAN.
10. PROVIDE REMOTE VFD FOR FAN OPERATION.
11. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.

DUCTLESS MINI-SPLIT - INDOOR UNIT

MARK	FAN							AIR TEMPERATURE (°F)		COOLING						REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHARAC.			ENTERING DRY BULB	ENTERING WET BULB	TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	MINIMUM EER/ SEER	NUMBER OF STAGES	MANUFACTURER	MODEL	
					V	P	F									
DMS-1	425	0	0.20	0.1	208	1	60	75.0	62.5	18,000	7,800	9.9/18.5	MOD	MITSUBISHI	PKA-A18	ALL

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. CONTROLLED BY WALL-MOUNTED PROGRAMMABLE WIRED THERMOSTAT WITH BACNET INTERFACE.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
5. PROVIDE WITH CONDENSATE PUMP EQUAL TO ASPEN MINI WHITE. PUMP REQUIRES A SEPARATE 120V POWER SOURCE.

DUCTLESS MINI-SPLIT - OUTDOOR UNIT

MARK	TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER/ SEER	CURRENT CHARAC.			RELATED UNIT MARK	BASIS OF DESIGN				REMARKS
				V	PH	F		MANUFACTURER	MODEL	MCA	MOCP	
DCU-1	18,000	105	9.9/18.5	208	1	60	DMS-1	MITSUBISHI	PUY-A18	12	20	ALL

GENERAL NOTES:
1. MINIMUM RECOMMENDED CLEARANCE AROUND ROOFTOP UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH HAIL GUARDS, WIND BAFFLES, AND LOW AMBIENT CONTROLS.
2. PROVIDE COOLING ONLY UNIT.
3. PROVIDE WITH DISCONNECT SWITCH.

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972-812-1270

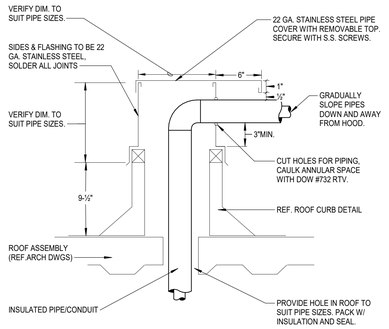
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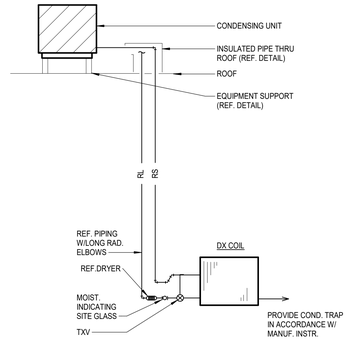
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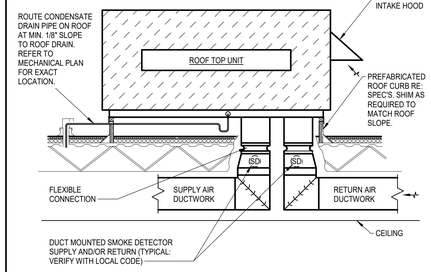
M5.1
MECHANICAL SCHEDULES



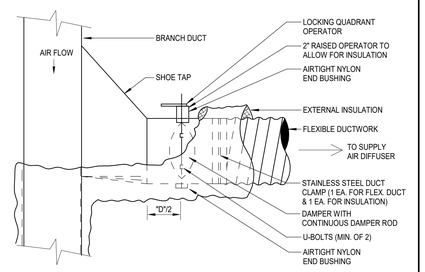
14 INSULATED PIPE THRU ROOF
SCALE: NONE



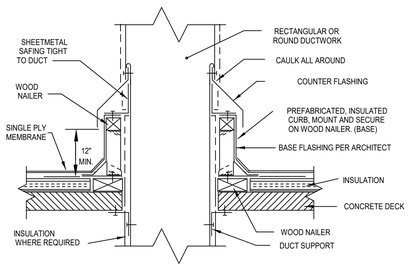
10 REFRIGERANT PIPING DIAGRAM
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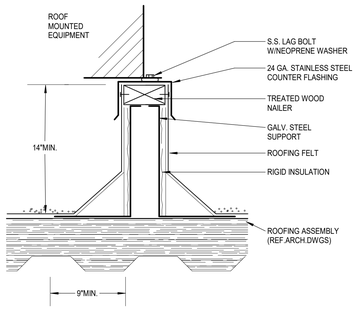
7 ROOFTOP UNIT ELEVATION
SCALE: NONE



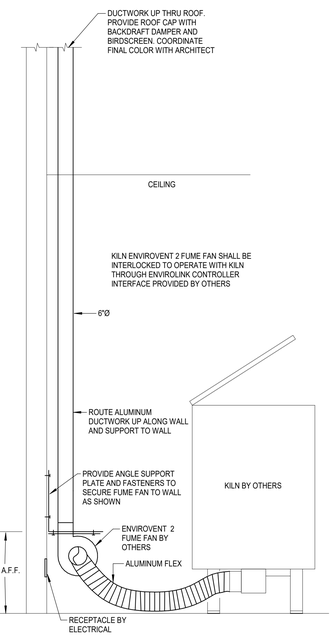
3 FLEXIBLE DUCT TAP - SHOE
SCALE: NONE



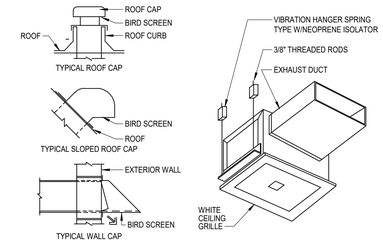
17 DUCT PENETRATION THRU ROOF
SCALE: NONE



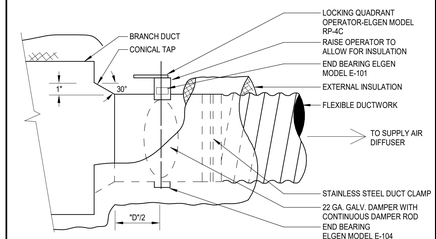
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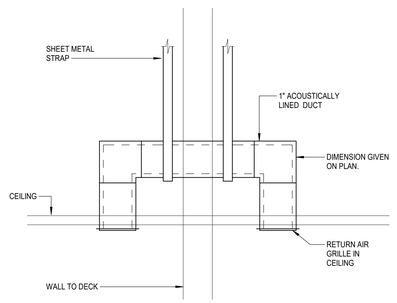
9 KILN EXHAUST DETAIL
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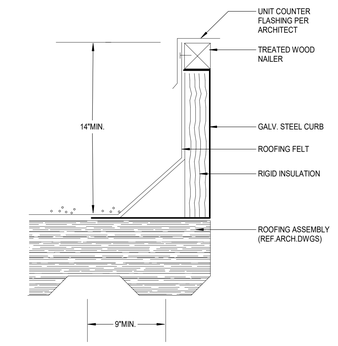
6 CABINET CEILING FAN
SCALE: NONE



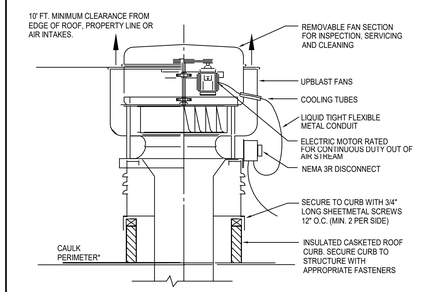
2 FLEXIBLE DUCT TAP - CONICAL
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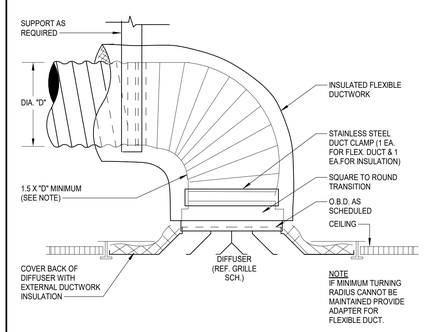
16 TRANSFER AIR DUCT
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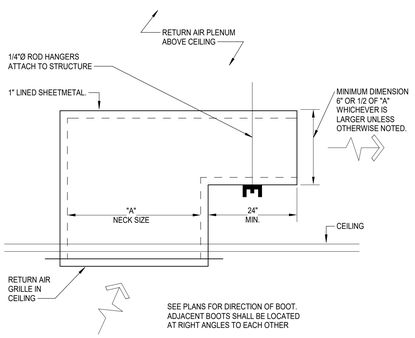
12 ROOF CURB
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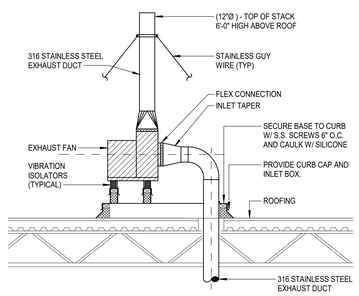
5 ROOF MOUNTED FAN INSTALLATION
SCALE: NONE



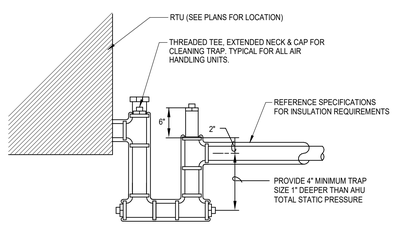
FLEX DUCT CONNECTION AT SUPPLY AIR DIFFUSER
1
SCALE: NONE



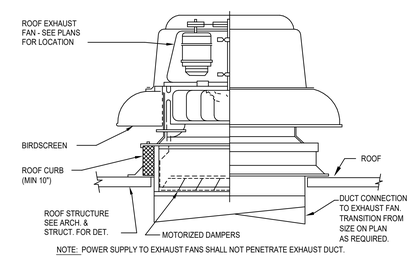
15 RETURN AIR GRILLE BOOT
SCALE: NONE



11 FUME HOOD EXHAUST FAN
SCALE: NONE



8 CONDENSATE DRAIN PIPING AT RTU
SCALE: NONE



4 ROOF EXHAUST FAN
SCALE: NONE

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Project No: 2650-01468

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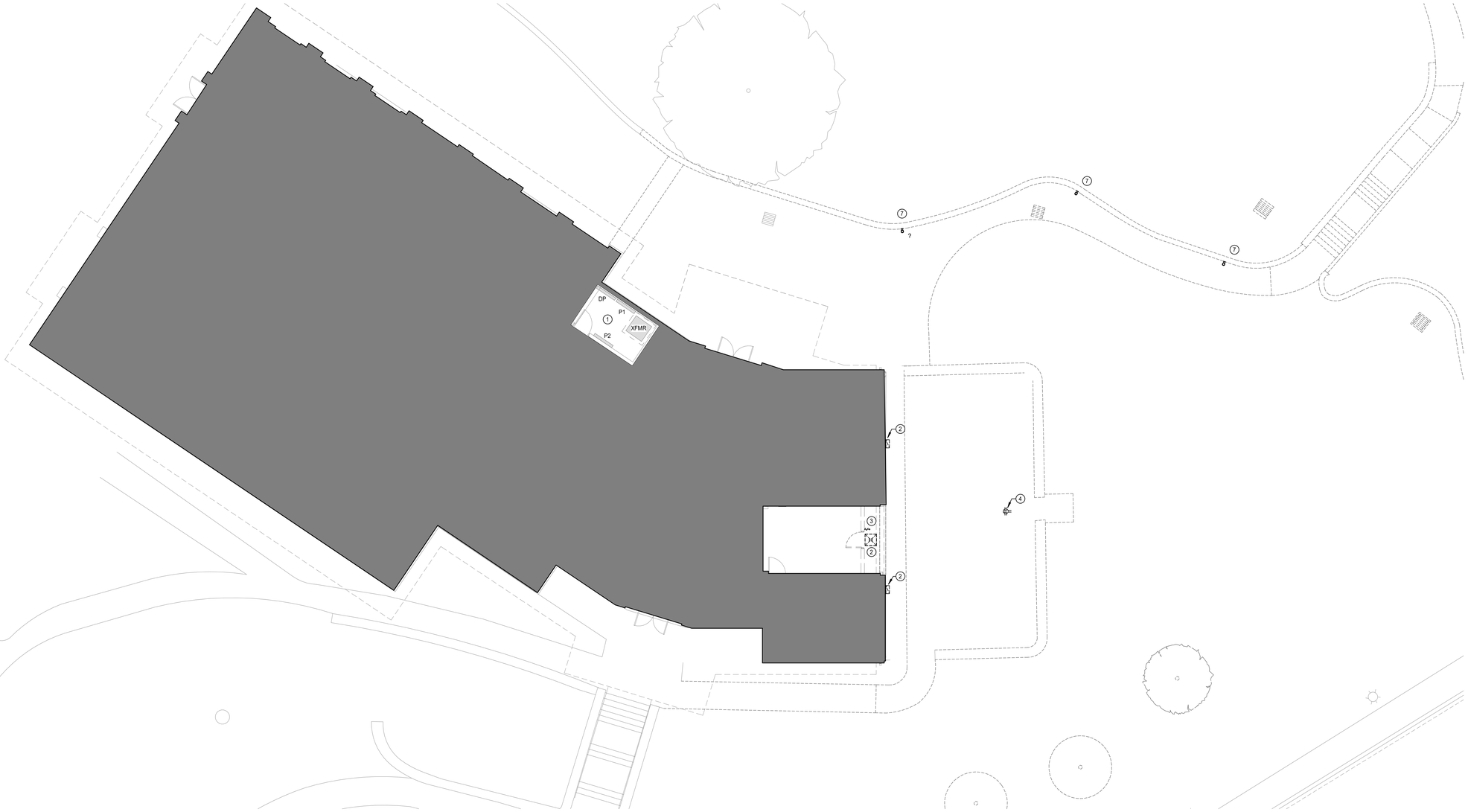
M6.1
MECHANICAL DETAILS

ELECTRICAL KEYED NOTES

1	EXISTING PANEL(S) TO REMAIN IN PLACE AND OPERATIONAL.
2	EXISTING LIGHT FIXTURE(S) TO BE DISCONNECTED AND REMOVED. REMOVE EXISTING CONDUITS AND WIRES AS REQUIRED.
3	EXISTING LIGHTING CONTROLS TO BE REMOVED.
4	EXISTING ELECTRICAL DEVICE TO BE DEMOLISHED ANR REMOVED.
7	EXISTING LIGHT(S) TO BE REMOVED AND REPLACE WITH FIXTURE AT NEW LOCATION. REFER TO SHEET E2.1 FOR ADDITIONAL INFORMATION.

ELECTRICAL DEMOLITION GENERAL NOTES

1	ALL EQUIPMENT AND MATERIAL WITHIN AREAS IDENTIFIED TO BE DEMOLISHED ON ARCHITECTURAL PLANS SHALL BE DISCONNECTED AND REMOVED, UNLESS IDENTIFIED OTHERWISE. ALL EQUIPMENT AND MATERIAL DEMOLISHED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF IN A PROPER MANNER. ALL EQUIPMENT MATERIALS TO BE DISPOSED OF SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS. IN ADDITION TO REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION AGENCIES AND/OR ANY OTHER GOVERNING AUTHORITY.
2	E.C. SHALL INCLUDE IN BID COST OF REPLACING ALL EXISTING ELECTRICAL DEVICE FACEPLATES TO MATCH NEWLY INSTALLED ELECTRICAL DEVICE FACEPLATES AND PAINT TO MATCH.
3	DURING DEMOLITION THE FIRE PROTECTION AND FIRE ALARM SYSTEMS SHALL REMAIN IN FULL OPERATING CONDITION TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL INCLUDE ALL REQUIRED DESIGN, LABOR, AND MATERIALS IN ORDER TO KEEP THESE SYSTEMS FUNCTIONAL. ALL DESIGNS SHALL BE DONE BY A LICENSED FIRE SPRINKLER AND FIRE ALARM CONTRACTOR.



N

1 **POWER PLAN - LEVEL 1 - DEMO - Overall**
Scale: 1/8" = 1'-0"

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WESTLAKE, TX 76262

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ED1.10
OVERALL - ELECTRICAL PLAN - LEVEL 1 - DEMO

ELECTRICAL KEYED NOTES

1	PROVIDE POWER TO NEW LIGHT FIXTURE(S) FROM EXISTING LIGHTING CIRCUITS IN THIS AREA. CONTRACTOR TO VERIFY THAT CIRCUIT AMPACITY ON THE EXISTING CIRCUIT DOES NOT EXCEED 16 AMPS. EXTEND CONDUIT AND WIRING AS NECESSARY.
2	NEW ELECTRICAL ROOM. REFER TO ELECTRICAL FLOOR PLANS FOR ADDITIONAL INFORMATION.

UTILITY CONTACT INFORMATION

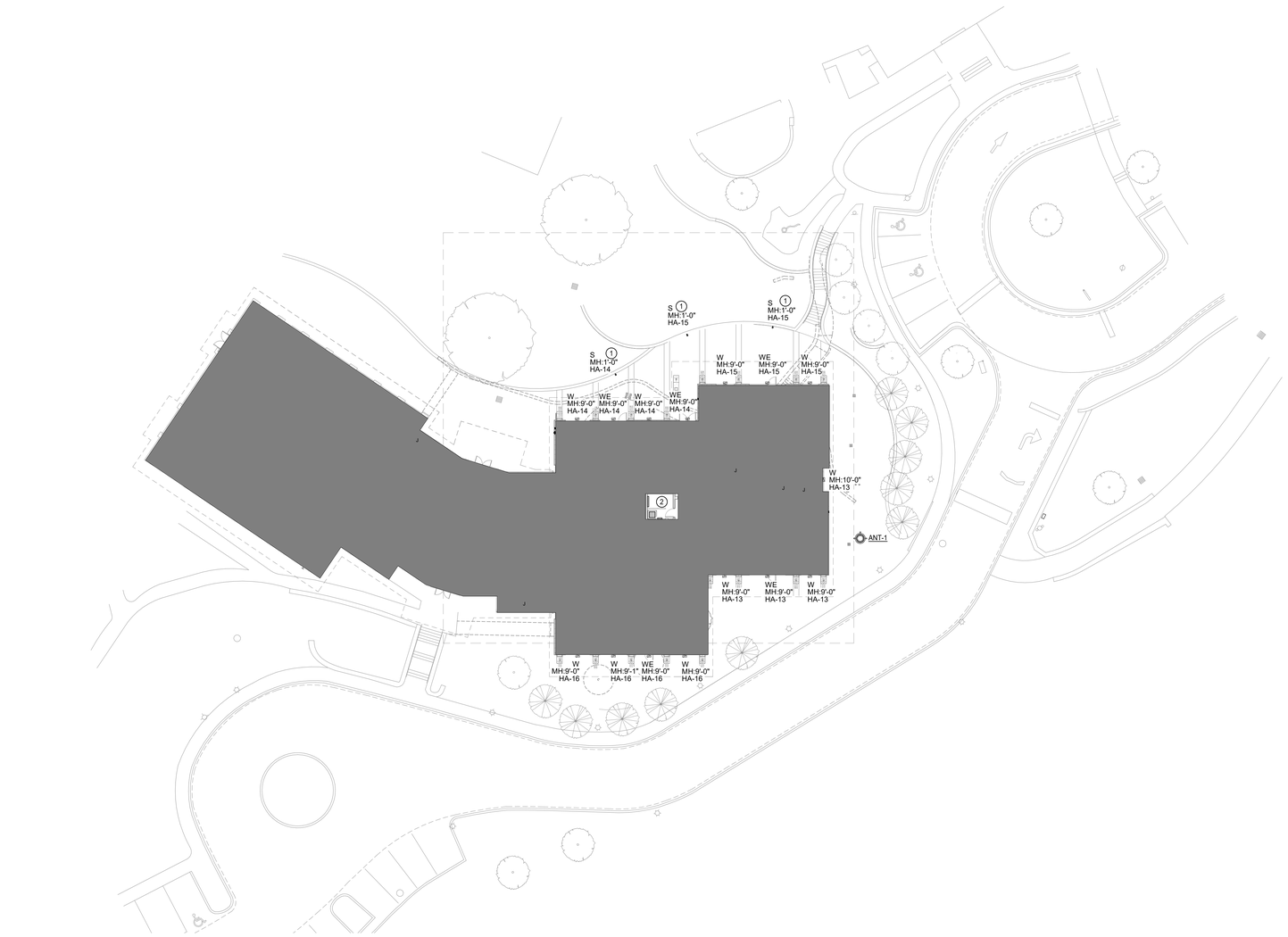
TRI-COUNTY ELECTRICAL COOPERATIVE

PHONE: 817-444-3201

EMAIL: TCECTEXAS.COM

N

2 **UTILITY CONTACT**
Scale: N.T.S.



N

1 **ELECTRICAL SITE PLAN**
Scale: 1" = 20'-0"

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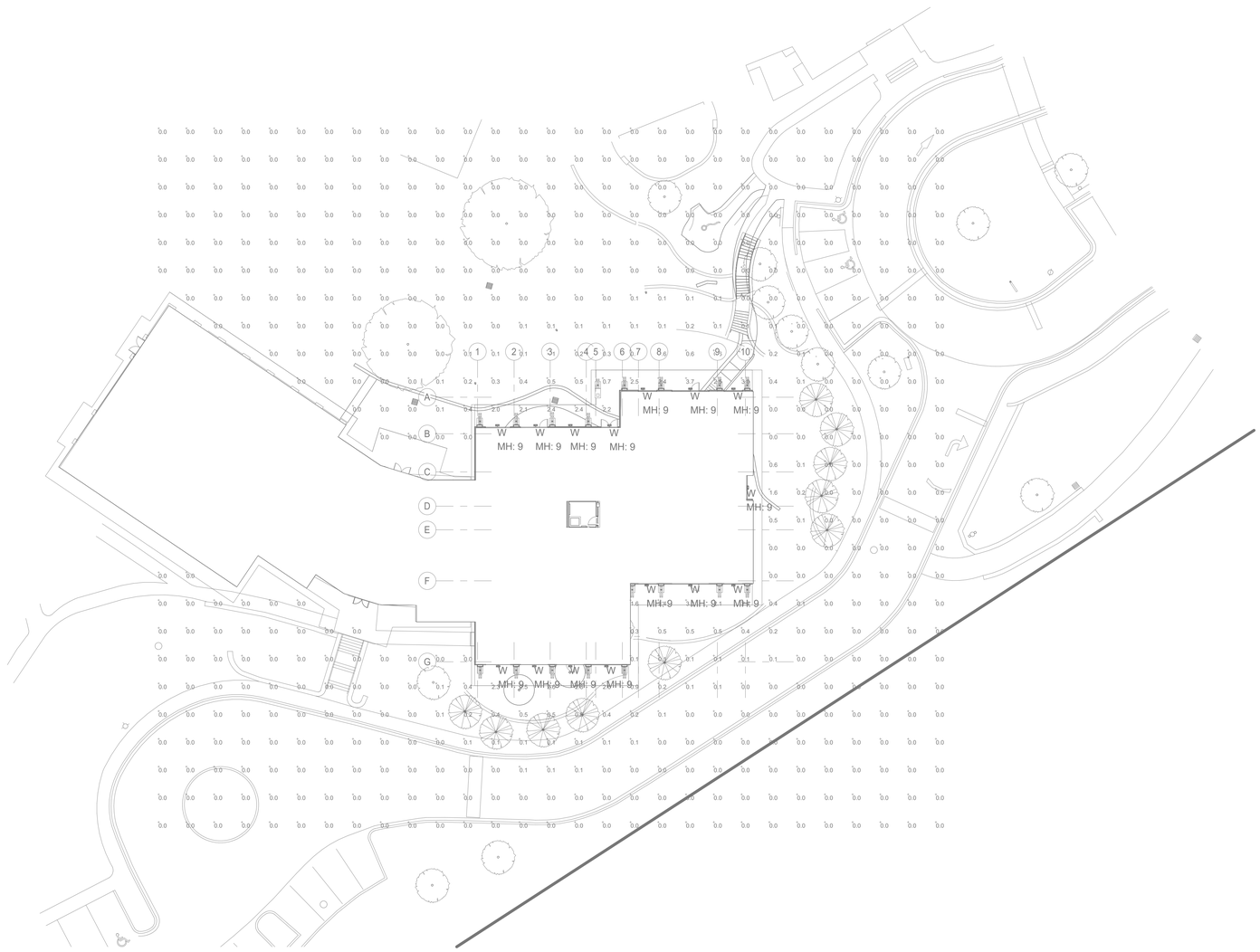
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E1.1

ELECTRICAL SITE PLAN



N

1 **PHOTOMETRICS**
Scale: 1" = 20'-0"

Luminaire Schedule							
Symbol	Qty	Label	[MANUFAC]	Description	LLF	Lumens	Watts
	15	W	Solais Lighting	TPWM-1-VCD-930	0.900	1256	11

Calculation Summary							
Label	Avg	Max	Min	Avg/Min	Max/Min	PtSpcLr	PtSpcTb
AREA	0.1	3.7	0.0	N.A.	N.A.	10	10

NOTES:
1) Fixture Mounting Heights (MH) are indicated next to each fixture.
2) All fixtures labeled with "_alt" indicates an alternative fixture different from what was listed in the fixture schedule received was used in this calculation
3) All fixtures labeled with "_ph" indicates that another fixture's IES file was used as a placeholder due to unavailable IES files from the specified Manufacturer.
4) Interior reflectances 80/50/20; exterior reflectances 20% UON.
5) Quantity (QTY) indicated on HLPS Luminaire Schedule is for what is included in this calculation study only - Not final counts.
6) Contractor to verify exact fixture quantities and fixture run lengths before ordering.

The Intent of this calculation report is to show estimated light levels of the given lighting layout. It is provided using Fixture Photometrics (IES files) furnished by the Manufacturers. The Manufacturer is responsible for the validity, integrity, and organization of IES files. The use of this calculation report for any other purpose is not authorized by Hossley Lighting and Power Solutions.

WESTLAKE ACADEMY EXTERIOR AGI

Mike Cunningham, LC 11/4/2025

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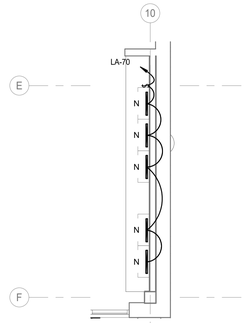
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E1.2
PHOTOMETRIC

LIGHTING GENERAL NOTES

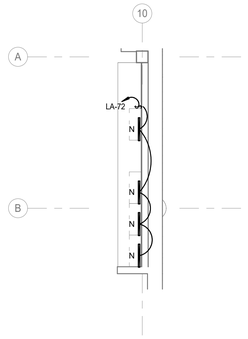
1	PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
2	ALL JUNCTION BOXES, CONDUITS, AND WIRES SHALL BE SIZED PER NEC.
3	CONNECT ALL EXIT LIGHTS AHEAD OF ANY LOCAL OR AUTOMATIC SWITCHING DEVICE. PROVIDE POWER VIA NEAREST LIGHTING CIRCUIT NOT TO EXCEED 16A.
4	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION & MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES SHOWN ON THIS DRAWING.
5	REFER TO SHEETS E5.1FOR LIGHTING FIXTURE SCHEDULE AND LIGHTING CONTACTOR SCHEDULE.
6	ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
7	ELECTRICAL CONTRACTOR SHALL CONFIRM COMPATIBILITY OF ALL LIGHTING CONTROL SYSTEMS.
8	PROVIDE A CONSTANT HOT FROM PANEL BOARD DIRECTLY TO ALL EMERGENCY BATTERY PACKS IN EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS. EMERGENCY LIGHTING FIXTURES SHALL TURN ON TO FULL BRIGHTNESS IN CASE OF POWER LOSS.
9	ALL CLASSROOMS AND SPACES DO NOT REQUIRE DAYLIGHT HARVESTING CONTROLS, UNLESS NOTED ON PLAN. PER 2021 IECC C405.2.3 WATTAGE REQUIREMENT.
10	CORRIDOR LIGHTING DOES NOT REQUIRE OCCUPANCY SENSING DEVICES AND/OR DAYLIGHT HARVESTING CONTROLS PER 2021 IECC C405.2 REGARDING EXIT PASSAGEWAYS AND SAFETY/SECURITY REQUIREMENTS.
11	LOWER CASE LETTER INDICATES SWITCHING SCHEME.
12	ALL ABOVE CEILING POWER PACKS TO BE MOUNTED ABOVE ROOM DOORS REGARDLESS OF SCHEMATIC DESIGN SHOWN ON FLOOR PLANS. E.C. SHALL ENSURE INSTALLATION OF ALL POWER PACKS OCCUR ABOVE ROOM DOORS.



N

2 CHEMISTRY LAB - UNDER CABINET LIGHTS

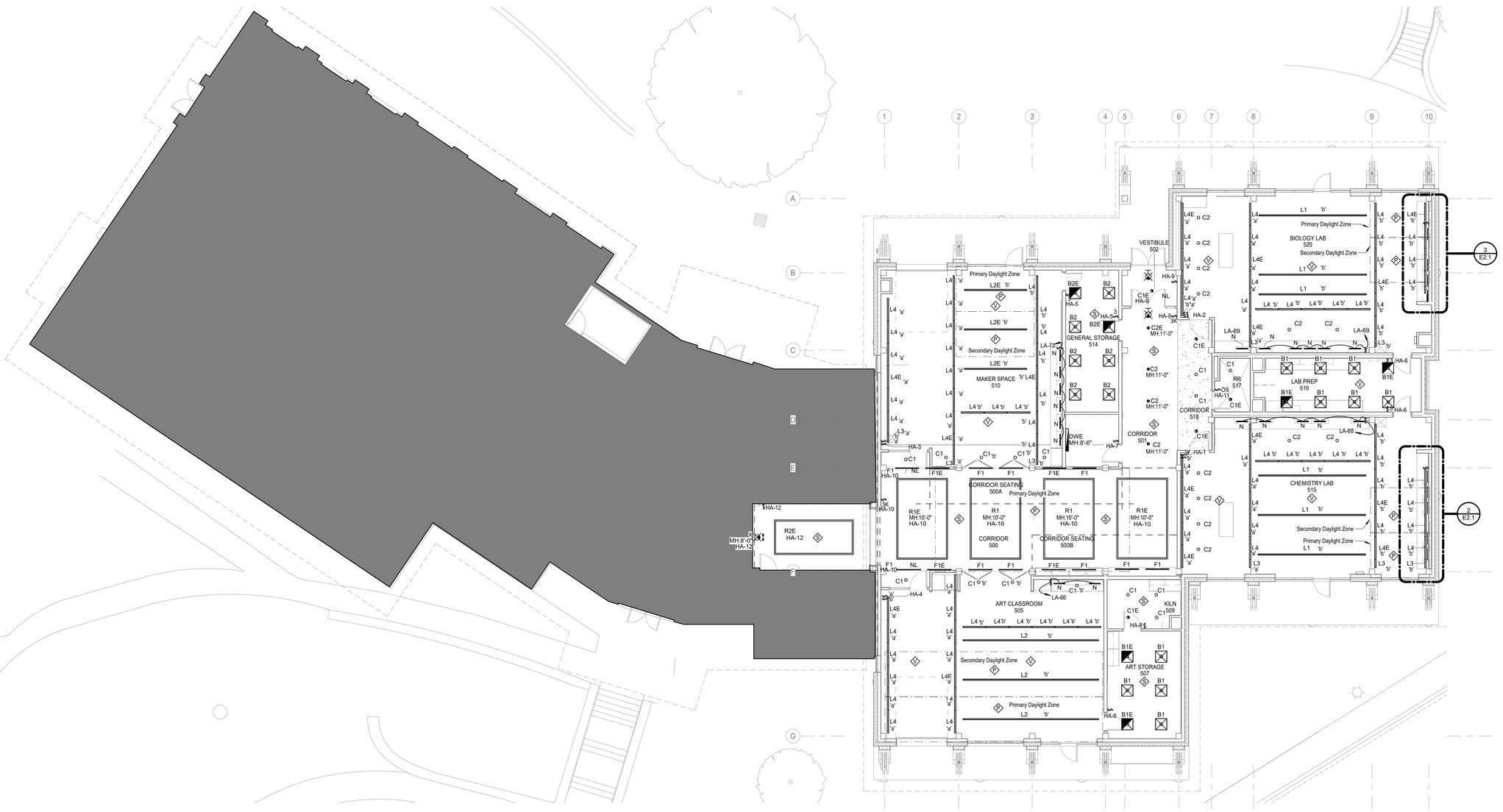
Scale: 3/16" = 1'-0"



N

3 BIOLOGY LAB - UNDER CABINET LIGHTS

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



N

1 LIGHTING PLAN - LEVEL 1 - Overall

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

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E2.1

OVERALL - LIGHTING PLAN - LEVEL 1

ROOFTOP EQUIPMENT SCHEDULE - MASTER

TAG	CIRCUIT	WIRE	BREAKER	DISCONNECT	REMARKS
EF-8	LA-83	#12	1P/20A	1P/20A/NF/WP	C

MECHANICAL ROOFTOP EQUIPMENT NOTES

A	DISCONNECT IS FURNISHED WITH UNIT.
B	GFCI RECEPTACLE IS FURNISHED WITH UNIT AND POWERED AS SHOWN ON PLAN.
C	DISCONNECT TO BE WEATHERPROOF MOTOR-RATED SWITCH.
D	OUTDOOR UNIT OF MINI-SPLIT SYSTEM TO POWER INDOOR UNIT. REFER TO INDOOR FLOOR PLANS FOR ADDITIONAL INFORMATION.

ELECTRICAL KEYED NOTES

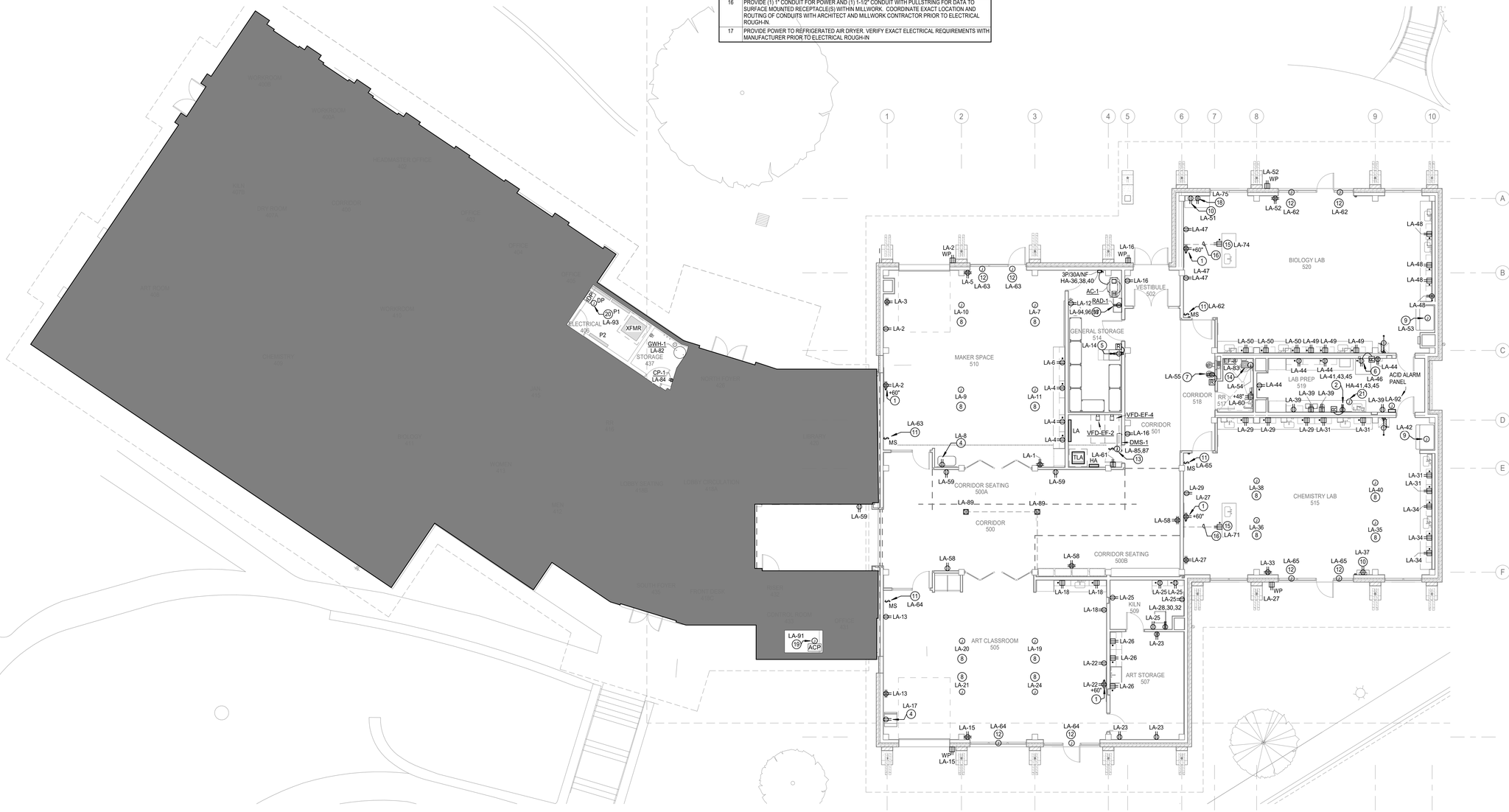
1	POWER OUTLET FOR WALL MOUNTED DISPLAY. VERIFY EXACT LOCATION AND MOUNTING REQUIREMENTS WITH ARCHITECTURAL ELEVATION PRIOR TO ELECTRICAL ROUGH-IN.
2	PROVIDE DISHWASHER RECEPTACBLE BELOW SINK AND ON/OFF SWITCH ABOVE COUNTER. E.C. TO ENSURE DISHWASHER SWITCH IS CLEARLY LABELED "DISHWASHER ON/OFF".
4	PROVIDE POWER FOR PRINTER / COPIER.
5	PROVIDE POWER TO ICE MACHINE. PROVIDE REMOTE GFCI RESET BUTTON.
6	POWER OUTLET FOR WALL MOUNTED DISPLAY. VERIFY EXACT LOCATION AND MOUNTING REQUIREMENTS WITH ARCHITECTURAL ELEVATION PRIOR TO ELECTRICAL ROUGH-IN.
7	REFER TO DETAILS FOR DRINKING FOUNTAIN POWER REQUIREMENTS.
8	PROVIDE CORD REEL WITH 3 OUTLETS FOR POWER TO TABLE. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ELECTRICAL ROUGH-IN.
9	PROVIDE JUNCTION BOX ABOVE CEILING FOR CONNECTION OF FUME HOOD. INSTALL ALL LOOSE ACCESSORIES FURNISHED WITH HOOD.
10	PROVIDE POWER TO GOOGLE SANITIZER. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN.
11	PROVIDE UP-DOWN MOMENTARY SWITCH FOR MOTORIZED SHADE CONTROLS. COORDINATE EXACT QUANTITY WITH MANUFACTURER. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ELECTRIACAL ROUGH-IN.
12	PROVIDE JUNCTION BOX FOR POWER CONNECTION TO MOTORIZED SHADES LOCATED AT CLERESTORY WINDOWS. COORDINATE EXACT QUANTITY WITH MANUFACTURER. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH SHADE MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN. COORDINAT EXACT MOUNTING LOCATION WITH ARCHITECT AND OWNER PRIOR TO ELECTRICAL ROUGH -IN.
13	PROVIDE SWITCH FOR CONDENSATE PUMP. POWER FROM SEPERATE DEDICATED CIRCUIT AS INDICATED.
14	PROVIDE 2-POLE, DUAL RELAY, MOTOR RATED, 120V AND 277V SWITCH FOR CONTROL OF LIGHTING AND EXHAUST FAN.
15	COORDINATE EXACT ELECTRICAL REQUIREMENTS AND INSTALLATION REQUIREMENTS WITH MILLWORK MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN OF RECEPTACLES WITHIN SCIENCE ROOM TEACHER'S DESK.
16	PROVIDE (1) 1" CONDUIT FOR POWER AND (1) 1-1/2" CONDUIT WITH PULLSTRING FOR DATA TO SURFACE MOUNTED RECEPTACLE(S) WITHIN MILLWORK. COORDINATE EXACT LOCATION AND ROUTING OF CONDUITS WITH ARCHITECT AND MILLWORK CONTRACTOR PRIOR TO ELECTRICAL ROUGH-IN.
17	PROVIDE POWER TO REFRIGERATED AIR DRYER. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN

ELECTRICAL KEYED NOTES

18	PROVIDE POWER FOR MICROSCOPE CHARGING CABINET. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN.
19	PROVIDE POWER TO ACCESS CONTROL PANEL. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH ACP MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.
20	PROVIDE POWER TO INTRUSION DETECTION PANEL. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH IDP MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.
21	PROVIDE POWER TO BOOSTER PUMP FOR REVERSE OSMOSIS SYSTEM. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

POWER GENERAL NOTES

1	ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
2	CONTRACTOR SHALL REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT AND SCHEDULES. CONTRACTOR SHALL PROVIDE ALL ELECTRICAL DISCONNECTS, BRANCH CIRCUITRY, STARTERS/CONTROLS, CIRCUIT BREAKERS AND CONNECTIONS REQUIRED TO POWER EQUIPMENT.
3	CONTRACTOR TO COORDINATE EXACT LOCATION OF DISCONNECT SWITCHES, JUNCTION BOXES AND SINGLE POLE TOGGLE SWITCHES FOR MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
4	ALL RECEPTACLES LOCATED WITHIN 6'-0" OF SINK SHALL BE GFCI TYPE.
5	CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF RECEPTACLES AND SWITCHES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ELECTRICAL ROUGH-IN. ADJUST DEVICES AS REQUIRED SO THAT NO DEVICES ARE INSTALLED BEHIND CABINETS OR SHELVES.
6	ALL BLANK FACE GFCI DEVICES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AND NOT BEHIND EQUIPMENT
7	CONTRACTOR SHALL REFER TO TECHNOLOGY SERIES CONSTRUCTION DOCUMENTS FOR EXACT LOCATION AND REQUIREMENTS OF ALL LOW VOLTAGE BACK BOXES, FITTINGS, AND CONDUITS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
8	ALL EXTERIOR OUTLETS SHALL BE WP GFI IN METAL WHILE-IN -USE LOCKABLE ENCLOSURE WITH EXCEPTION TO INTEGRAL RTU RECEPTACLES.



N

1 **POWER PLAN - LEVEL 1 - Overall**
Scale: 1/8" = 1'-0"

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BROWN REYNOLDS WATFORD ARCHITECTS, INC.

DATE JANUARY 20, 2026
DRAWN BY
CHECKED BY
BRW PROJECT NUMBER 225057.00

WESTLAKE ACADEMY
ARTS & SCIENCES ADDITION
2600 J.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

E3.1
OVERALL - POWER PLAN - LEVEL 1

ROOFTOP EQUIPMENT SCHEDULE - MASTER

TAG	CIRCUIT	WIRE	BREAKER	DISCONNECT	REMARKS
DCU-1	LA-80,82	#12	2P/20A	2P/20A	D
EF-1	LA-77	#12	1P/20A	1P/20A/NF/WP	C
EF-2	HA-30,32,34	#12	3P/20A	3P/30A/NF/WP	C
EF-3	LA-76	#12	1P/20A	1P/20A/NF/WP	C
EF-4	HA-35,37,39	#12	3P/20A	3P/30A/NF/WP	C
EF-5	LA-79	#12	1P/20A	1P/20A/NF/WP	C
EF-6	LA-78	#12	1P/20A	1P/20A/NF/WP	C
EF-7	LA-81	#12	1P/20A	1P/20A/NF/WP	C
RTU-1	HA-17,19,21	#10	3P/25A	3P/30A	A,B
RTU-2	HA-18,20,22	#10	3P/25A	3P/30A	A,B
RTU-3	HA-23,25,27	#10	3P/25A	3P/30A	A,B
RTU-4	HA-24,26,28	#10	3P/35A	3P/60A	A,B
RTU-5	HA-29,31,33	#10	3P/25A	3P/30A	A,B

MECHANICAL ROOFTOP EQUIPMENT NOTES

A	DISCONNECT IS FURNISHED WITH UNIT.
B	GFCI RECEPTACLE IS FURNISHED WITH UNIT AND POWERED AS SHOWN ON PLAN.
C	DISCONNECT TO BE WEATHERPROOF MOTOR-RATED SWITCH.
D	OUTDOOR UNIT OF MINI-SPLIT SYSTEM TO POWER INDOOR UNIT. REFER TO INDOOR FLOOR PLANS FOR ADDITIONAL INFORMATION.

GENERAL ROOFTOP NOTES

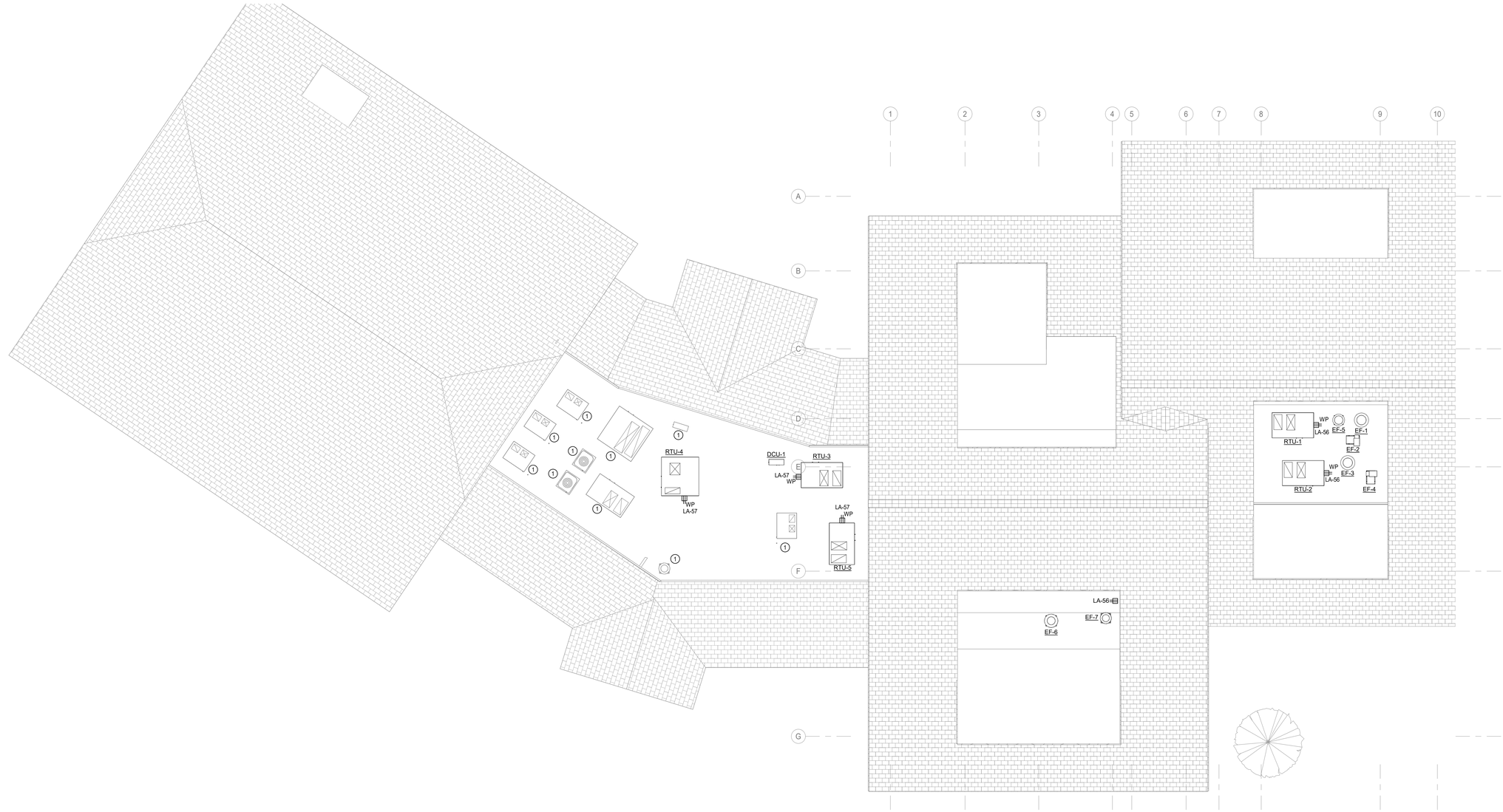
1	ALL EQUIPMENT SHOWN IS TO BE MOUNTED ON ROOF. REFER TO ROOFTOP MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ALL CIRCUIT INFORMATION, DISCONNECT SIZING, AND NEMA RATINGS OF EQUIPMENT. E.C. SHALL PROVIDE AND INSTALL ALL NECESSARY EQUIPMENT FOR A FULLY FUNCTIONING SYSTEM. LOCATION OF DISCONNECT IS TO BE DETERMINED BY E.C. IN COMPLIANCE WITH ALL NEC AND IBC CODE REGULATIONS FOR ROOFTOP EQUIPMENT. FOR ADDITIONAL INFORMATION ON ROOFTOP EQUIPMENT, REFER TO MECHANICAL SCHEDULES ON SHEET M5.1.
2	ALL RECEPTACLES SHOWN ARE SCHEMATIC BY DESIGN. E.C. SHALL POWER RECEPTACLES VIA INDICATED CIRCUIT. E.C. SHALL ENSURE ALL EQUIPMENT IS WITHIN 25' - 0" OF A CONVENIENCE OUTLET PRIOR TO BID.

MECHANICAL ROOFTOP EQUIPMENT NOTES

A	DISCONNECT IS FURNISHED WITH UNIT.
B	GFCI RECEPTACLE IS FURNISHED WITH UNIT AND POWERED AS SHOWN ON PLAN.
C	DISCONNECT TO BE WEATHERPROOF MOTOR-RATED SWITCH.
D	OUTDOOR UNIT OF MINI-SPLIT SYSTEM TO POWER INDOOR UNIT. REFER TO INDOOR FLOOR PLANS FOR ADDITIONAL INFORMATION.

ELECTRICAL KEYED NOTES

1	EXISTING MECHANICAL EQUIPMENT TO REMAIN. PROTECT DURING CONSTRUCTION.



N

1 **POWER PLAN - ROOF - Overall**
Scale: 1/8" = 1'-0"

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DATE JANUARY 20, 2026
DRAWN BY AH
CHECKED BY MN
BRW PROJECT NUMBER 225057.00

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NO.	REVISION	DATE

E4.1
OVERALL - ELECTRICAL PLAN - ROOF

SYMBOL SCHEDULE

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
LIGHTING (LETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)	
	LIGHT FIXTURE
	FIXTURE ON EMERGENCY CIRCUIT
	DOWNLIGHT FIXTURE
H	LIGHT FIXTURE - WALL MOUNTED
	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT
H	LIGHT FIXTURE - WALL MOUNTED ON EMERGENCY CIRCUIT
	EXIT LIGHT-CEILING MTD WITH DIRECTIONAL ARROWS AS REQUIRED
H	EXIT LIGHT-WALL MTD WITH DIRECTIONAL ARROWS AS REQUIRED
SWITCHES	
$	LINE VOLTAGE SINGLE POLE SWITCH
$2	LINE VOLTAGE 2-POLE SWITCH
$3	LINE VOLTAGE 3-WAY SWITCH
$4	LINE VOLTAGE 4-WAY SWITCH
$K	LINE VOLTAGE KEYED SWITCH
$3K	LINE VOLTAGE KEYED 3-WAY SWITCH
$D	LINE VOLTAGE WALL DIMMER SWITCH, SIZE AND TYPE AS REQUIRED
$VD	LINE VOLTAGE WALL MOUNTED DIMMER SWITCH WITH VACANCY SENSOR. MANUAL ON / AUTO OFF.
$V	LINE VOLTAGE WALL MOUNTED SWITCH WITH VACANCY SENSOR. MANUAL ON / AUTO OFF.
$OC	LINE VOLTAGE WALL MOUNTED SWITCH WITH VACANCY SENSOR. AUTO ON / AUTO OFF.
$P	LINE VOLTAGE SWITCH WITH PILOT LIGHT
$MC	MOMENTARY CONTACT SWITCH
$MS	MOTORIZED SHADE KEYED TOGGLE SWITCH.
[B]	PUSH BUTTON
$TH	6-HOUR TIMER SWITCH WITH HOLD
$T	6-HOUR TIMER SWITCH WITH NO HOLD
	20 AMP GENERATOR TRANSFER DEVICE
LOW VOLTAGE LIGHTING CONTROLS	
$R	LOW VOLTAGE LIGHTING CONTROLLER WALL SWITCH
$B	BMCS TIMER LOCAL OVERRIDE SWITCH
	CEILING MOUNTED PHOTO SENSOR
	CEILING MOUNTED VACANCY SENSOR, MANUAL ON / AUTO OFF
	CEILING MOUNTED OCCUPANCY SENSOR, AUTO ON / AUTO OFF
	LIGHTING CONTROLLER WITH GTD. ZONES AS REQUIRED.
RECEPTACLES AND OUTLETS	
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	POWER POLE
	125/250 VOLT, 1 PHASE, 3-WIRE, 20 AMPS UNLESS NOTED OTHERWISE
	CEILING MOUNTED RECEPTACLE
	DOUBLE DUPLEX IN 2-GANG BOX WITH SINGLE COVER PLATE
	DOUBLE DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE IN 2-GANG BOX WITH SINGLE COVER PLATE
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
	FLUSH FLOOR CONCEALED SERVICE DUPLEX RECEPTACLE OUTLET
	FLUSH FLOOR CONCEALED SERVICE DOUBLE DUPLEX RECEPTACLE OUTLET
	CONCEALED SERVICE MULTI-ACCESS FLOOR BOX WITH WIRING DEVICES AS INDICATED ON DRAWINGS. SIZE TO MATCH DEVICE QUANTITIES.
[R]	REMOTE BLANK FACE GFCI DEVICE.
U	PROVIDE DUPLEX RECEPTACLE WITH (2) USB CHARGING PORTS.
CR	E.C. TO PROVIDE ROUGH-IN FOR CARD READER JUNCTION BOX. REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
SR	SWITCH CONTROLLED RECEPTACLE WITH THE TOP RECEPTACLE LOAD CONTROLLED VIA PLUG LOAD SWITCH MEETING 2021 IECC 405.11 REQUIREMENTS. SPLIT LOAD-CONTROLLED RECEPTACLES SHALL BE PERMANENTLY FACTORY MARKED AS CONTROLLED.

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
MISCELLANEOUS EQUIPMENT	
[FACP]	FIRE ALARM CONTROL PANEL
[ANNC]	FIRE ALARM REMOTE ANNUCIATOR
[T]	TRANSFORMER FOR DOOR BELL/BUZZER
	CHIME/BUZZER
MOTOR CONTROLLERS AND EQUIPMENT	
	MOTOR, MAKE FINAL MOTOR CONNECTION
	3-PHASE MOTOR, MAKE FINAL MOTOR CONNECTION
	DISCONNECT SWITCH AS REQUIRED
	FUSED DISCONNECT SWITCH AS REQUIRED
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH AS REQUIRED
	MOTOR STARTER
	PREWIRED DEVICE, MAKE ELECTRICAL FINAL CONNECTIONS
	VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26
ELECTRICAL EQUIPMENT	
	ELECTRICAL DISTRIBUTION OR PANELBOARD
	DRY TYPE TRANSFORMER
CIRCUITING	
	CONDUIT
– — –	CONDUIT BELOW FLOOR, SLAB, OR GRADE
SUBSCRIPTS AND ABBREVIATIONS	
WP	INDICATES WEATHERPROOF
WG	INDICATES WIREGUARD
H	INDICATES HORIZONTAL
TL	INDICATES TWIST LOCK
NL	LIGHT FIXTURE ON NIGHT LIGHT CIRCUIT
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH
1-L	REFER TO ONE-LINE DIAGRAM
H	INDICATES WALL MOUNTED DEVICE
•	NEXT TO ANY SYMBOL INDICATES FINAL ROUGH-IN FIELD COORDINATION BY CONTRACTOR WITH ARCHITECTURAL MILLWORK DRAWINGS AND OTHER TRADES

GENERAL NOTES:

-ALL EXTERIOR BUILDING ELECTRICAL EQUIPMENT TO BE WEATHERPROOF NEMA-3R MINIMUM.

DAYLIGHT ZONE CONTROLS

ENTIRE BUILDING IS EXEMPT FROM DAYLIGHT ZONE CONTROLS IN ACCORDANCE WITH 2021 IECC 405.2.4 EXCEPTION #3.

TOTAL BUILDING SQ FOOTAGE (TBFA): 8145.61

BUILDING LIGHTING ALLOWANCE PER IECC 2021 405.3.2(1) (LPA_{com}): 5865

TOTAL CONNECTED LIGHTING POWER: 7783

DAYLIGHT ZONES REQUIRED TOTAL SQ FOOTAGE (UDZFA): 1219.95

ADJUSTED LIGHTING POWER ALLOWANCE (LPA_{adj}): 5513

7783 > 5513

DAYLIGHT ZONES WITHIN BUILDING ARE NOT EXEMPT.

CONTRACTOR NOTES:

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE BASE PROPOSAL SHALL INCLUDE MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE AND LOCAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A PROPOSAL WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN HAD AN EXAMINATION AND CODE/REQUIREMENTS REVIEW BEEN MADE, WILL NOT BE ACCEPTED.

FIRE DETECTION AND FIRE ALARM NOTE:

A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL III, IN THE SUB FIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET) SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, NFPA 72, LOCAL AND STATE CODE REQUIREMENTS. FURNISH AND INSTALL ALL REQUIRED FIRE ALARM DEVICES, AS REQUIRED BY CODE. VERIFY EXACT REQUIREMENTS IN THE FIELD. COORDINATE ALL LOCATIONS WITH DRAWINGS APPROVED BY AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION. ALL WORK SHALL BE INCLUDED WTIHIN BASE BID.

BUILDING CODES LIST

PROJECT IS DESIGNED TO COMPLY WITH 2021 INTERNATIONAL BUILDING CODE, 2020 NATIONAL ELECTRICAL CODE, 2021 INTERNATIONAL ENERGY CONSERVATION CODE, AND IN ACCORDANCE WITH ALL STATE AND LOCAL AMENDMENTS. ALL INSTALLATIONS TO COMPLY WITH LATEST CODES.

LIGHTING FIXTURE SCHEDULE NOTES

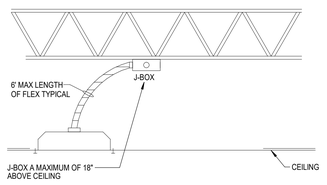
1	FIXTURES SHOWN ON THE FLOORPLAN HAVING A DESIGNATION OF "E" FOLLOWING THE BASE DESIGNATION (I.E. - A FIXTURE TYPE "AE, C2E, FE") AND/OR A HALF SHADED REGION SHALL BE THE BASE FIXTURE TYPE EQUIPPED WITH THE APPROPRIATE BATTERY BACK-UP. BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE AND REMOTE SHALL BE SELECTED ONLY IN INSTANCES WHERE IT IS SPECIFIED OR WHEN IT IS THE ONLY AVAILABLE EMERGENCY OPTION. THE LOCATION OF REMOTE BATTERY BACKUPS SHALL BE SELECTED BY THE OWNER/ARCHITECT PRIOR TO INSTALLATION BY THE CONTRACTOR.
2	ALL REQUIRED TEST SWITCHES FOR THE BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE.
3	REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT INDICATED IN THE LIGHTING FIXTURE SCHEDULE. WHERE THERE IS AN INCONSISTENCY BETWEEN THE LIGHTING FIXTURE SCHEDULE AND THE SPECIFICATIONS, THE GREATER QUANTITY OR HIGHER QUALITY OF WORK SHALL BE INCLUDED IN THE PROPOSAL.
4	UNLESS OTHERWISE INDICATED ON THE SCHEDULE ABOVE, THE ARCHITECT/OWNER SHALL SELECT ALL FINISHES, COLORS, AND TRIMS.
5	ALL LED FIXTURE BOARDS AND DRIVERS SHALL BE OF THE LATEST GENERATION, BASED UPON THE INDIVIDUAL MANUFACTURER'S STATED LITERATURE. IF A "GEN 5" IS AVAILABLE, "GEN 4" FIXTURES ARE NOT ACCEPTABLE.
6	EXIT SIGNS AND EMERGENCY BATTERY BACK-UPS SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AS REQUIRED TO MAINTAIN THE BATTERIES AT FULL CHARGE. THE CONTRACTOR SHALL PROVIDE ALL ADDITIONAL WIRING AS REQUIRED.
7	LIGHTING FIXTURE MANUFACTURERS OTHER THAN THOSE LISTED IN THE LIGHTING FIXTURE SCHEDULE AND DESIRING TO BID THIS PROJECT SHALL REQUEST PRIOR APPROVAL OF THE FIXTURES THEY WISH TO SUBSTITUTE. PRIOR APPROVAL REQUEST SHALL INCLUDE FIXTURE CUT SHEETS.
8	FOR PRIOR APPROVALS AND SUBMITTALS THAT DEVIATE FROM NOMINAL WATTAGE AND/OR DELIVERED LUMENS, IT SHALL BE UP THE ENGINEER'S SOLE DISCRETION TO APPROVE OR DECLINE THESE FIXTURES BASED ON ANY AND ALL FACTORS INCLUDING BUT NOT LIMITED TO INTENDED LIGHTING LEVELS FOR EACH SPACE AND IMPACT ON THE OVERALL ELECTRICAL POWER SYSTEM.
9	ALL LIGHTING SPECIFIED SHALL BE 4000K INTERIOR UNLESS NOTED OTHERWISE.
10	THE CONTRACTOR SHALL PROVIDE ALL HARDWARE AND ACCESSORIES AS REQUIRED TO INSTALL FIXTURES IN LOCATIONS AS ILLUSTRATED WITH MOUNTING METHODS DESIRED.
11	WHEN A UNIVERSAL (120-277V) VOLTAGE OPTION IS AVAILABLE, IT SHALL BE PROVIDED. OTHERWISE PROVIDE AS INDICATED IN SCHEDULE.
12	FOR ALL SUSPENDED FIXTURES, COORDINATE THE EXACT MOUNTING ELEVATION ABOVE FINISHED FLOOR WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE SUSPENSION HARDWARE IN LENGTHS AS REQUIRED.
13	ALL EXTERIOR LIGHT FIXTURES RECESSED IN A CANOPY OR SURFACED MOUNTED DIRECTLY TO THE BOTTOM OF A CANOPY SHALL BE UL OR ETL LISTED AS WET LOCATION. WHERE SPECIFICALLY STATED IN THE LIGHTING FIXTURE SCHEDULE AS "DAMP LOCATION" FIXTURES AND PROTECTED BY THE BUILDING STRUCTURE FROM FALLING OR WIND DRIVEN RAIN OR SNOW, THEY MAY BE EITHER DAMP OR WET LOCATION LISTED.
14	ALL EXTERIOR LIGHT FIXTURES NOT RECESSED IN A CANOPY OR SURFACED MOUNTED DIRECTLY TO THE BOTTOM OF A CANOPY SHALL BE UL OR ETL LISTED AS WET FROM ABOVE LOCATION.
15	FINAL FIXTURE COLOR SELECTION TO BE CONFIRMED BY THE ARCHITECT AND OWNER.

LIGHTING FIXTURE SCHEDULE

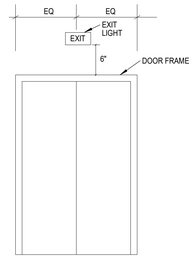
Type Mark	CATALOG NUMBER MANUFACTURER	FINISH	CATALOG NUMBER MODEL	MOUNTING	LAMP TYPE	CCT	CRI	VOLTAGE	LOAD	REMARKS
B1	VISCOR	WHITE	LRTL2X2-LED840K030LUNV	RECESSED	3012L LED	4000 K	80	277 V	23 W	2X2 ARCHITECTURAL TROFFER WITH CENTER ACRYLIC DIFFUSER, 0-10V DIMMING DRIVER
B1E	VISCOR	WHITE	LRTL2X2-LED840K030LUNV-B39	RECESSED	3012L LED	4000 K	80	277 V	23 W	SAME AS 'B1' EXCEPT WITH A 90-MIN UTE RATED EMERGENCY BATTERY PACK
B2	VISCOR	WHITE	LRTL2X2-LED-840K-020L-UNV	RECESSED	1840L LED	4000 K	80	277 V	14 W	2X2 ARCHITECTURAL TROFFER WITH CENTER ACRYLIC DIFFUSER, 0-10V DIMMING DRIVER
B2E	VISCOR	WHITE	LRTL2X2-LED-840K-020L-UNV-B39	RECESSED	1840L LED	4000 K	80	277 V	14 W	SAME AS 'B2' EXCEPT WITH A 90-MIN UTE RATED EMERGENCY BATTERY PACK
C1	VANTAGE LIGHTING	WHITE	V4OFCRU-1135K	RECESSED	4245L LED	4000 K	80	277 V	15 W	4-INCH MEDIUM BEAM OPEN DOWNLIGHT
C1E	PRESCOLITE	WHITE	V4OFCRU-1135K-REM	RECESSED	1100L LED	4000 K	80	277 V	15 W	SAME AS 'C1' EXCEPT WITH A 90-MIN UTE RATED EMERGENCY BATTERY PACK
C2	3G LIGHTING	WHITE	3G-SDL33RA-11H-20-H95-35K-40D-UNV-DIM-WH-BI	RECESSED	2000L LED	3500 K	80	277 V	19 W	4-INCH SUSPENDED LED CYLINDER DOWNLIGHT
C2E	3G LIGHTING	WHITE	3G-SDL33RA-11H-20-H95-35K-40D-UNV-DIM-WH-BI-REM	RECESSED	2000L LED	3500 K	80	277 V	19 W	SAME AS 'C2' EXCEPT WITH A 90-MIN UTE RATED EMERGENCY BATTERY PACK
DWE	VISCOR INC.	WHITE	LCOM48-LED840K044LUNV-P77-B39	SURFACE / PENDANT	6000L LED	4000 K	80	277 V	34 W	SAME AS 'DW' EXCEPT WITH A 90-MIN UTE RATED EMERGENCY BATTERY PACK
F1	BARTCO	WHITE	HCB20-4-BS35-ND-R-A	SURFACE	2601L LED	3500 K	80	277 V	31 W	LED ADJUSTABLE COVE LIGHT, 3500K, ASYMMETRIC OPTIC, ANGLE LOCKING PIN, 0-10V DIMMING DRIVER
F1E	BARTCO	WHITE	HCB20-4-BS35-ND-R-A-B39	SURFACE	2601L LED	3500 K	80	277 V	31 W	SAME AS 'F1' EXCEPT WITH A 90-MIN UTE RATED EMERGENCY BATTERY PACK
L1	FOCAL POINT	WHITE	ASM1S-RL-12-500LF-35K-1C-UNV-LD1-J96-COLOR-18ft-0in	SUSPENDED	9000L LED	3500 K	80	277 V	99 W	1" SUSPENDED LINEAR ACOUSTIC PENDANT, PERFORMANCE BATWING OPTIC, ACOUSTIC FINISH TBD, 0-10V DIMMING DRIVER
L2	FOCAL POINT	WHITE	ASM1S-RL-12-500LF-35K-1C-UNV-LD1-J96-COLOR-11ft-0in	SUSPENDED	5500L LED	3500 K	80	277 V	60 W	1" SUSPENDED LINEAR ACOUSTIC PENDANT, PERFORMANCE BATWING OPTIC, ACOUSTIC FINISH TBD, 0-10V DIMMING DRIVER
L2E	FOCAL POINT	WHITE	ASM1S-RL-12-500LF-35K-1C-UNV-LD1-J96-COLOR-11ft-0in-EM	SUSPENDED	5500L LED	3500 K	80	277 V	60 W	SAME AS 'L2' EXCEPT WITH A 90-MIN UTE RATED EMERGENCY BATTERY PACK
L3	I2 SYSTEMS	WHITE	CP12-06W-35K-S	SURFACE	1542L LED	3500 K	80	277 V	25 W	1' 6" HIGH PERFORMANCE LED ASYMMETRIC COVE WITH MOUNTING CHANNEL
L4	I2 SYSTEMS	WHITE	CP12-06W-35K-S	SURFACE	2056L LED	3500 K	80	277 V	51 W	4' HIGH PERFORMANCE LED ASYMMETRIC COVE WITH MOUNTING CHANNEL
L4E	I2 SYSTEMS	WHITE	CP12-06W-35K-S	SURFACE	2056L LED	3500 K	80	277 V	51 W	SAME AS 'L4' EXCEPT WITH A 90-MIN UTE RATED EMERGENCY BATTERY PACK
N	AFX	WHITE	HEYU-LENGTH-WH	SURFACE	6000L LED	3500 K	80	120 V	50 W	4' BELOW CABINET LENSED LED STRIPLIGHT.
R1	FOCAL POINT	WHITE	FSM2LS-FL-250LF-35K-UNV-FINISH-(9ft X 14ft-4lin R)	SUSPENDED	11,500L LED	3500 K	80	277 V	92 W	2" LED SUSPENDED DIRECT LINEAR, CONTINUOUS LENGTH, CUSTOM SHAPE, FINISH TBD, FLUSH OPTIC, 0-10V DIMMING DRIVER
R1E	FOCAL POINT	WHITE	FSM2LS-FL-250LF-35K-UNV-FINISH-(9ft X 14ft-4lin R)-EM	SUSPENDED	11,500L LED	3500 K	80	277 V	92 W	SAME AS 'R1' EXCEPT WITH A 90-MIN UTE RATED EMERGENCY BATTERY PACK
R2E	FOCAL POINT	WHITE	FSM2LS-FL-250LF-35K-UNV-FINISH-(14ft X 6ft-1in R)-EM	SUSPENDED	10,000L LED	3500 K	80	277 V	80 W	2" LED SUSPENDED DIRECT LINEAR, CONTINUOUS LENGTH, CUSTOM SHAPE, FINISH TBD, FLUSH OPTIC, 0-10V DIMMING DRIVER
S	AMERLUX	WHITE	PRCD8-VH40-FINISH / RTBX-8	WALL	LED	4000 K	80	277 V	6 W	EXTERIOR DECORATIVE UP/DOWN WALL MOUNTED CYLINDRICAL WALL SCONCE SUITABLE FOR WET LOCATION
W	SOLAIS	WHITE	TPWM-1-VCD-940K-UNV-FINISH-OPT	WALL	1256L LED	4000 K	80	277 V	11 W	EXTERIOR WET LISTED LED WALL PACK WITH FORWARD THROW DIFFUSE DISTRIBUTION
WE	SOLAIS	WHITE	TPWM-1-VCD-930	WALL	1256L LED	4000 K	80	277 V	11 W	SAME AS 'W' EXCEPT WITH A 90-MINUTE RATED EMERGENCY BATTERY PACK
X	ISOLITE	WHITE	ELT2-FT	VARIES	LED	4000 K	80	277 V	3 W	UNIVERSAL LED EXIT SIGN MOUNTED WITH WHITE HOUSING, RED LETTERING AND EMERGENCY BATTERY BACK-UP

CONTACTOR SCHEDULE

CONTACTOR ID	LOAD DESCRIPTION	CONTACTOR RATINGS VOLTS	AMPS	POLES	CIRCUITS	CONTROL CIRCUIT VOLTS	CIRCUIT	CONTROL TYPE
1	FACADE & CANOPY	277	30	4	HA-14, HA-15, HA-16, HA-17	277	LA-88	TIMECLOCK / PHOTOCELL



1 **TYPICAL LIGHTING FIXTURE WIRING DETAIL**
Scale: NOT TO SCALE



2 **TYPICAL EXIT SIGN LOCATION**
Scale: NOT TO SCALE

ISSUE FOR PROPOSALS

BRW ARCHITECTS
3535 TRAVIS STREET SUITE 100
DALLAS, TEXAS 75204
214.528.8704
BRWARCH.COM

STATE OF TEXAS
KEITH W. GASSMAN
89636
REGISTERED ARCHITECT
01/20/2026

Salas O'Brien
salasobrien.com
1900 Pike Place Drive, Suite 200
Irving, TX 75062
972-812-1270
Registration: F-411111
Project No: 2650-01468

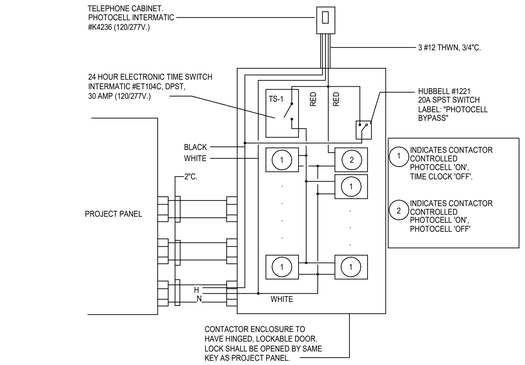
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DATE JANUARY 20, 2026
DRAWN BY AH
CHECKED BY MN
BRW PROJECT NUMBER 225057.00

WESTLAKE ACADEMY ARTS & SCIENCES ADDITION
2600 I.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

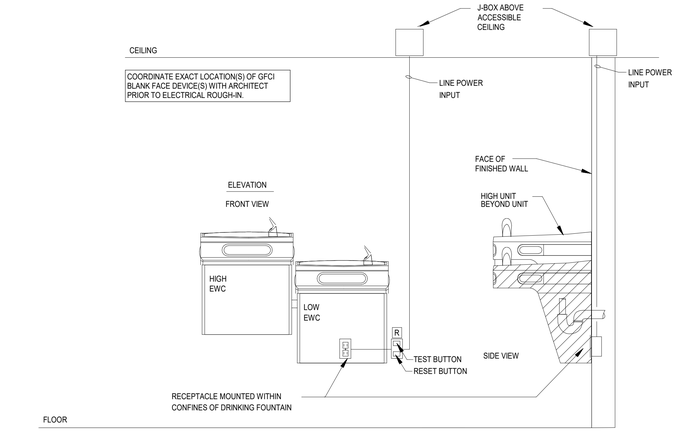
E5.1
ELECTRICAL DETAILS



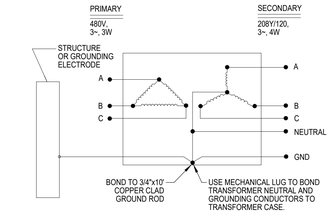
1 TC PHOTOCELL
Scale: 12" = 1'-0"

NOTES:

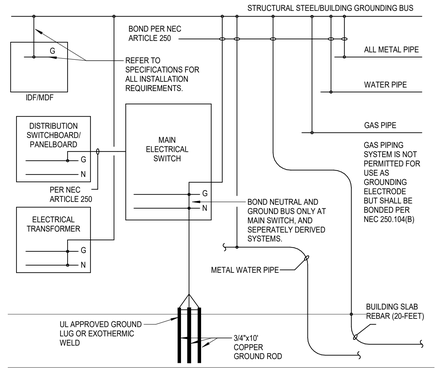
1. ELECTRICAL, MECHANICAL, AND BMCS CONTRACTORS MUST COORDINATE ALL DIVISION 26 REQUIREMENTS.
2. REFER TO MECHANICAL DRAWINGS FOR ALL BMCS SENSOR LOCATIONS.
3. ALL CONDUIT SYSTEMS AND BACK-BOXES SHALL BE PROVIDED BY DIVISION 26.
4. ALL BMCS SENSORS AND ASSOCIATED WIRING SHALL BE PROVIDED BY BMCS CONTRACTOR.



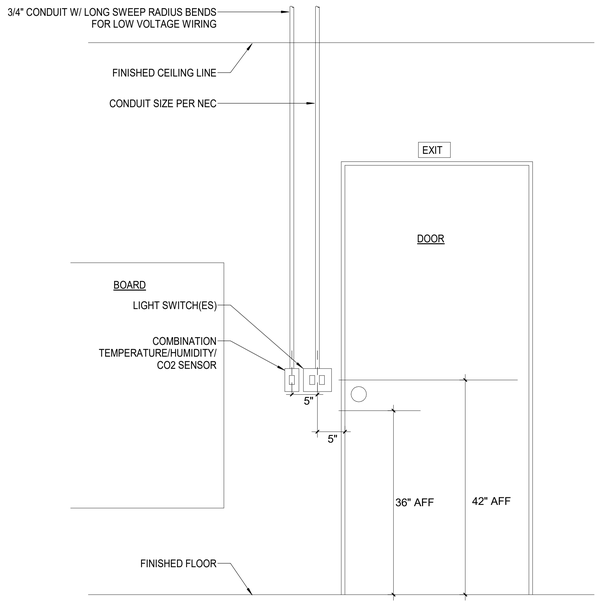
2 ELECTRICAL REQUIREMENTS AT WATER FOUNTAIN
Scale: NOT TO SCALE



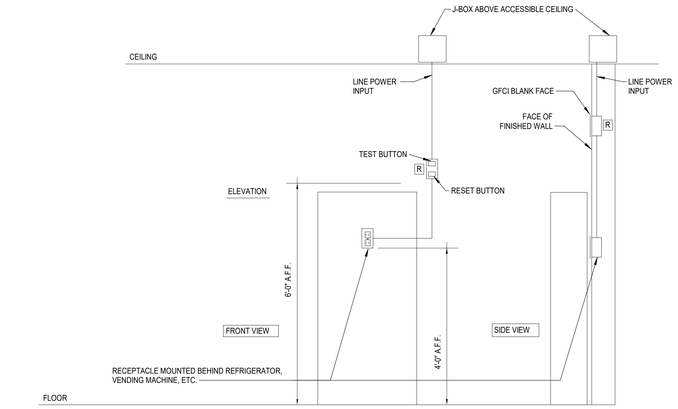
3 GROUNDING FOR TRANSFORMERS
Scale: NOT TO SCALE



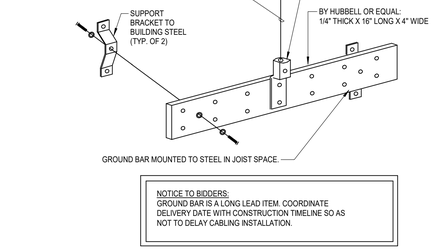
4 GROUNDING/BONDING DETAIL
Scale: 12" = 1'-0"



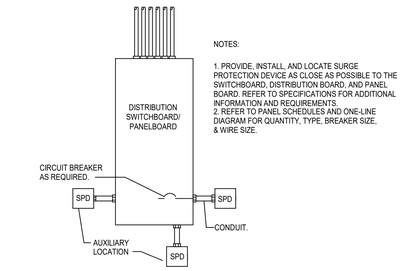
5 TYPICAL DOOR ROUGH-IN DETAIL
Scale: N.T.S.



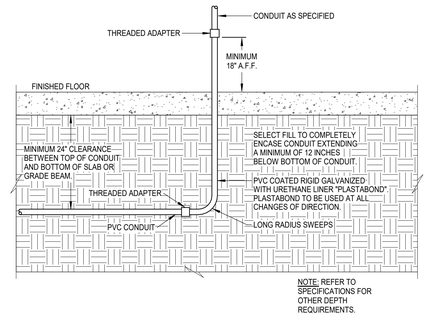
6 GFCI REQUIRED EQUIPMENT DETAIL
Scale: NOT TO SCALE



7 GROUND BAR DETAIL
Scale: N.T.S.



8 SURGE PROTECTION DEVICE DETAIL
Scale: NOT TO SCALE



9 CONDUIT BELOW BUILDING SLAB
Scale: NOT TO SCALE

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BRW PROJECT NUMBER 225057.00

WESTLAKE ACADEMY ARTS & SCIENCES ADDITION
2400 I.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

E5.2
ELECTRICAL DETAILS

1. ALUMINUM CONDUCTOR TO HAVE COMPRESSSION LUGS.
2. THIS CHART IS A REPRESENTATION AND NOT INDICATIVE OF ALL APPROVED CONVERSION POSSIBILITIES.
3. CONTRACTOR SHALL FURNISH AND INSTALL ALL FEEDERS IN ACCORDANCE WITH NEC AND ALUMINUM WIRING MANUFACTURERS REQUIREMENTS.
4. ALL GROUND CONDUCTORS FOR SERVICE ENTRANCE TO BE COPPER.

CONDUCTOR CONVERSION CHART - 75°C

FUSE	COPPER (THHN)	SERVICE ENT.
100A	4#3, 1#8GND, 1-1/4"C	#8 GND (CU)
125A	4#1, 1#6GND, 1-1/2"C	#6 GND (CU)
150A	4#1/0, 1#6GND, 2"C	#6 GND (CU)
175A	4#2/0, 1#6GND, 2"C	#6 GND (CU)
200A	4#3/0, 1#6GND, 2"C	#6 GND (CU)
225A	4#4/0, 1#4GND, 2-1/2"C	#4 GND (CU)
400A	(2 SETS-) 4#3/0,1#GND, 2"C	#2 GND (CU)
500A	(2 SETS-) 4#250KCMIL, 1#2GND, 3"C	#1/0 GND (CU)
600A	(2 SETS-) 4#350KCMIL, 1#1GND, 3"C	#1/0 GND (CU)
800A	(3 SETS-) 4#300KCMIL, 1#1/0GND, 3"C	#2/0 GND (CU)
1200A	(4 SETS-) 4#350KCMIL, 1#3/0GND, 4"C	#2/0 GND (CU)
2000A	(6 SETS-) 4#400KCMIL, 1#250KCMIL GND, 4"C	#3/0 GND (CU)
2500A	(7 SETS-) 4#500KCMIL, 1#350KCMIL GND, 4"C	#3/0 GND (CU)
3000A	(8 SETS-) 4#500KCMIL, 1#500KCMIL GND, 4"C	#3/0 GND (CU)

MAXIMUM ALLOWABLE VOLTAGE DROP FOR FEEDERS AND BRANCH CIRCUITS (2021 IECC 405.10)

1. Total voltage drop from the point of service to the last outlet or utilization equipment of the same voltage shall not exceed five-percent of rated voltage.
2. Total voltage drop from the point of service to transformers with adjustable taps, buck-boost transformers, uninterruptable power supplies (UPS), or voltage regulators shall not exceed five-percent of rated voltage.
3. Total voltage drop from a separately derived system, transformer with adjustable taps, buck-boost transformer, uninterruptable power supply (UPS), or voltage regulator to the last outlet or utilization equipment of the same voltage shall not exceed five-percent of rated voltage.
4. Total voltage drop from the point of service to distribution equipment of the same voltage shall not exceed two-percent of rated voltage.
5. Branch circuit voltage drop from distribution equipment to the last outlet or utilization equipment shall not exceed three-percent of rated voltage.
6. Provide the same size branch circuit conductors to last outlet on circuit unless specifically noted or indicated otherwise on the drawings. For 20 amp branch circuits operating at 150-Volts or less, provide #10 AWG wire when the first outlet is over 75-feet from the panelboard. For branch circuits operating above 150-Volts to 600-Volts, provide #10 AWG wire when the first outlet is over 150-feet from the panelboard.

TRANSFORMER SCHEDULE

PRIMARY (480V 3PH 3W +GND)			SECONDARY (120/208V 3PH 4W +GND)		
KVA	WIRE & CONDUIT	CIRCUIT BREAKER	WIRE & CONDUIT	CIRCUIT BREAKER	GROUNDING ELECTRODE CONDUCTOR
45KVA	3#4, 1#8G,1-1/4"C	3P-70A	4#1/0, 1#6G,2"C	3P-150A	#6

1. CONDUIT SIZE AND QUANTITIES ARE BASED ON 3-PHASE 4-WIRE SYSTEMS. CONDUIT SIZE IS PERMITTED TO BE REDUCED BY THE CONTRACTOR AS PREMITTED BY THE NEC FOR THE REDUCED NUMBER OF CONDUCTORS THAT ARE TYPICAL FOR EQUPMENT THAT IS SINGLE PHASE OR EQUIPMENT THAT DOES NOT REQUIRE A NEUTRAL CONDUCTOR.
2. CONDUCTOR SIZES BASED ON NEC TABLE 310.16 - COPPER 75°.
3. GROUND SIZES BASED ON NEC TABLE 250.122 – COPPER, UNLESS NOTED OTHERWISE. FEEDER TAGS WITH 'SE' REFERS TO SERVICE ENTRANCE CONDUCTORS AND GROUND SIZES BASED ON NEC TABLE 250.66 – COPPER
4. CONDUIT FILL BASED ON NEC ANNEX C.

FEEDER SCHEDULE

AMPERAGE	# SETS	CONDUCTOR (QTY.)/SIZE	GROUND (QTY.)SIZE	CONDUIT
225A	1	(4) #4/0	#4	2-1/2"C

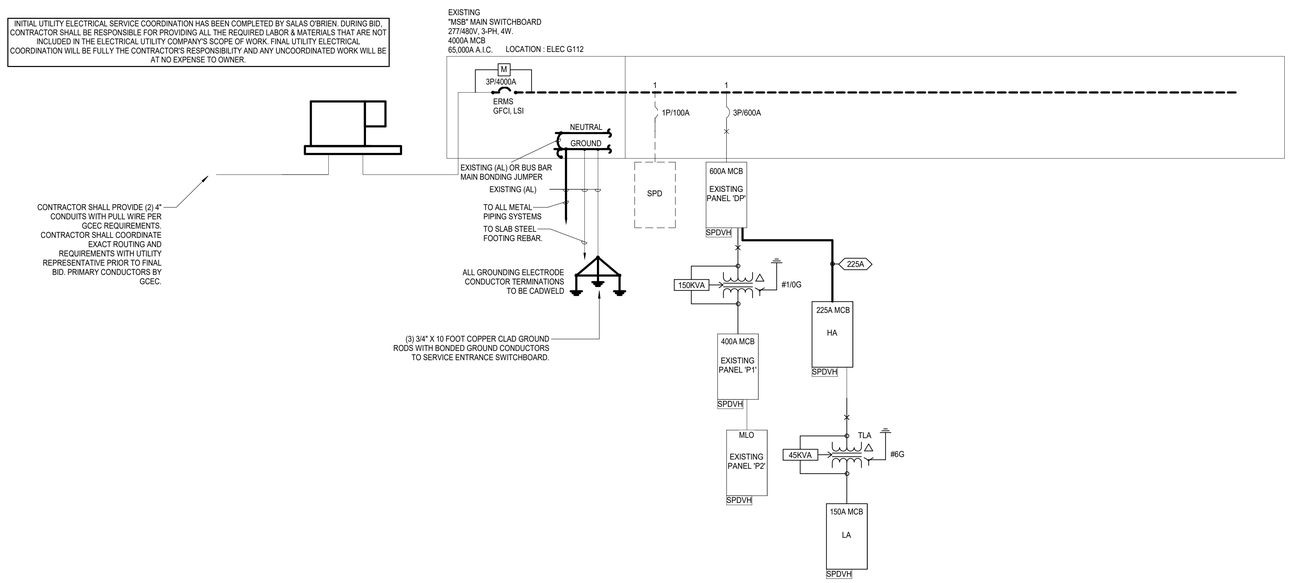
SUB METERING NOTES

PROVIDE ENERGY MONITORING OF THE FOLLOWING LOAD SEPARATELY TO COMPLY WITH IECC 2021:
- MISCELLANEOUS
- HVAC SYSTEMS
- INTERIOR LIGHTING
- EXTERIOR LIGHTING
- RECEPTACLE CIRCUITS
- PROCESS LOAD

LEGEND:
MP - MULTIPOINT METER
SP -SINGLEPOINT METER

NOTES:
- REFER TO SPECIFICATION 26 09 14 ENERGY MONITORING FOR ADDITIONAL INFORMATION AND EQUIPMENT SPECIFICATIONS.
- CONTRACTOR TO VERIFY EXACT QUANTITY OF METERS WITH MANUFACTURER PRIOR TO BID

INITIAL UTILITY ELECTRICAL SERVICE COORDINATION HAS BEEN COMPLETED BY SALAS O'BRIEN. DURING BID, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL THE REQUIRED LABOR & MATERIALS THAT ARE NOT INCLUDED IN THE ELECTRICAL UTILITY COMPANY'S SCOPE OF WORK. FINAL UTILITY ELECTRICAL COORDINATION WILL BE FULLY THE CONTRACTOR'S RESPONSIBILITY AND ANY UNCOORDINATED WORK WILL BE AT NO EXPENSE TO OWNER.



1 **ONE LINE DIAGRAM**
Scale: **N.T.S.**

ISSUE FOR PROPOSALS

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SUITE 100
DALLAS, TEXAS 75204
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REGISTERED
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01/20/2026

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Irving, TX 75062
Registration: F-41111
Project No: 2650-01468

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DATE JANUARY 20, 2026
DRAWN BY AH
CHECKED BY MN
BRW PROJECT NUMBER 225057.00

WESTLAKE ACADEMY ARTS & SCIENCES ADDITION
2600 I.T. OTTINGER RD.
WESTLAKE, TX 76262

NO.	REVISION	DATE

E6.1
ONE LINE DIAGRAM

Branch Panel: HA

Location: ELECTRICAL 512 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 18,000
Supply From: | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 225A
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C		Breaker	Wire	Circuit Description	CKT	Note
	1	LIGHTING - CLASSROOM	#12	20	1	0.1 / 0.1			1	20	#12	LIGHTING - CLASSROOM	2	
	3	LIGHTING - CLASSROOM	#12	20	1		0.1 / 0.0		1	20	#12	LIGHTING - CLASSROOM	4	
	5	LIGHTING - STORAGE	#12	20	1			0.1 / 0.2	1	20	#12	LIGHTING - LAB PREP	6	
	7	LIGHTING - ELECTRICAL	#12	20	1	0.0 / 0.2			1	20	#12	LIGHTING - STORAGE/KILN	8	
	9	LIGHTING - CORRIDOR	#12	20	1		0.1 / 0.0		1	20	#12	LIGHTING - CORRIDOR	10	
	11	LIGHTING - RESTROOM	#12	20	1			0.0 / 0.0	1	20	#12	LIGHTING - LIBRARY/LOBBY	12	
	13	LIGHTING - EXTERIOR	#12	20	1	0.0 / 0.1			1	20	#12	LIGHTING - EXTERIOR	14	
	15	LIGHTING - EXTERIOR	#12	20	1		0.0 / 0.0		1	20	#12	LIGHTING - EXTERIOR	16	
	17							6.1 / 6.1					18	
	19	RTU-1	#12	25	3	6.1 / 6.1			3	25	#12	RTU-2	20	
	21						6.1 / 6.1						22	
	23							6.1 / 7.7					24	
	25	RTU-3	#12	25	3	6.1 / 7.7			3	35	#12	RTU-4	26	
	27						6.1 / 7.7						28	
	29							6.1 / 0.2					30	
	31	RTU-5	#12	25	3	6.1 / 0.2			3	20	#12	EF-2	32	
	33						6.1 / 0.2						34	
	35							0.2 / 3.7					36	
	37	EF-4	#12	20	3	0.2 / 3.7			3	30	#12	AIR COMPRESSORE	38	
	39						0.2 / 3.7						40	
	41							0.2 / 0.0	1	20		SPARE	42	
	43	Power LAB PREP 519		20	3	0.2 / 0.0			1	20		SPARE	44	
	45						0.2 / 0.0		1	20		SPARE	46	
	47	SPARE		20	1			0.0 / 0.0	1	20		SPARE	48	
	49	SPARE		20	1	0.0 / 0.0			1	20		SPARE	50	
	51	SPARE		20	1		0.0 / 0.0		1	20		SPARE	52	
	53	SPARE		20	1			0.0 / 0.0	1	20		SPARE	54	
	55					0.0 / 12.8							56	
	57	SPD	#12	30	3		0.0 / 13.6		3	70	1L	TLA	58	
	59							0.0 / 10.3					60	
			Total Load:			49.7 kVA	50.3 kVA	47.0 kVA						
			Total Amps:			181 A	183 A	170 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	101.5 kVA	100.00%	101.5 kVA		
Lighting	2.6 kVA	125.00%	3.3 kVA	**Total Conn. Load:**	147.0 kVA
Miscellaneous	1.0 kVA	100.00%	1.0 kVA	**Total Est. Demand:**	141.9 kVA
Motor	11.2 kVA	100.00%	11.2 kVA	**Total Conn. Current:**	177 A
Other	0.0 kVA	0.00%	0.0 kVA	**Total Est. Demand Current:**	171 A
Power	9.3 kVA	100.00%	9.3 kVA		
Receptacles	21.4 kVA	73.34%	15.7 kVA		

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
M - PROVIDE METERING DEVICE

Branch Panel: LA

Location: ELECTRICAL 512 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: TLA | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 150A
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	RECEPT - MAKER SPACE	#12	20	1	0.4 / 0.7		1	20	#12	RECEPT - MAKER SPACE	2	
	3	COMPUTER CART	#12	20	1		0.4 / 0.5	1	20	#12	RECEPT - MAKER SPACE	4	
	5	COMPUTER CART	#12	20	1			0.4 / 0.2	1	20	#12	3D PRINTER	6	
	7	MAKERS SPACE - CORD REEL	#12	20	1	0.2 / 0.2			1	20	#12	PLOTTER	8	
	9	MAKERS SPACE - CORD REEL	#12	20	1		0.2 / 0.2		1	20	#12	MAKERS SPACE - CORD REEL	10	
	11	MAKERS SPACE - CORD REEL	#12	20	1			0.2 / 0.2	1	20	#12	RECEPT - GENERAL STORAGE	12	
	13	RECEPT - CLASSROOM	#12	20	1	0.5 / 0.2			1	20	#12	ICE MACHINE	14	
	15	RECEPT - COMPUTER CART	#12	20	1		0.5 / 0.5		1	20	#12	RECEPT - VESTIBULE	16	
	17	PRINTER	#12	20	1			0.2 / 0.5	1	20	#12	RECEPT - CLASSROOM	18	
	19	ART CLASSROOM - CORD REEL	#12	20	1	0.2 / 0.2			1	20	#12	ART CLASSROOM - CORD REEL	20	
	21	ART CLASSROOM - CORD REEL	#12	20	1		0.2 / 0.5		1	20	#12	RECEPT - DISPLAY	22	
	23	RECEPT - ART STORAGE	#12	20	1			0.5 / 0.2	1	20	#12	ART CLASSROOM - CORD REEL	24	
	25	RECEPT - KILN ROOM	#12	20	1	1.1 / 0.5			1	20	#12	RECEPT - ART STORAGE	26	
	27	RECEPT - DISPLAY	#12	20	1		0.9 / 0.1						28	
	29	RECEPT - CHEMISTRY LAB	#12	20	1			0.7 / 0.1	3	20	#12	RECEPT - KILN	30	
	31	RECEPT - CHEMISTRY LAB	#12	20	1	0.7 / 0.1							32	
	33	RECEPT - COMPUTER CART	#12	20	1		0.4 / 0.5		1	20	#12	RECEPT - CHEMISTRY LAB	34	
	35	CHEMISTRY LAB - CORD REEL	#12	20	1			0.2 / 0.2	1	20	#12	CHEMISTRY LAB - CORD REEL	36	
	37	GOGGLE CABINET	#12	20	1	0.2 / 0.2			1	20	#12	CHEMISTRY LAB - CORD REEL	38	
	39	RECEPT - LAB PREP	#12	20	1		0.7 / 0.2		1	20	#12	CHEMISTRY LAB - CORD REEL	40	
	41							0.1 / 0.5	1	20	#12	FUMEHOOD	42	
	43	RECEPT - DISHWASHER	#12	20	3	0.1 / 0.7			1	20	#12	RECEPT - LAB PREP	44	
	45						0.1 / 0.2		1	20	#12	REFRIGERATOR	46	
	47	RECEPT - CLASSROOM	#12	20	1			0.7 / 0.7	1	20	#12	RECEPT - CLASSROOM	48	
	49	RECEPT - CLASSROOM	#12	20	1	0.5 / 0.5			1	20	#12	RECEPT - CLASSROOM	50	
	51	GOGGLE CABINET	#12	20	1		0.2 / 0.5		1	20	#12	COMPUTER CART	52	
	53	FUMEHOOD	#12	20	1			0.5 / 0.5	1	20	#12	RESTROOM - WC-1	54	
	55	DRINKING FOUNTAIN	#12	20	1	0.2 / 0.5			1	20	#12	RECEPT - MAINTENANCE	56	
	57	RECEPT - MAINTENANCE	#12	20	1		0.5 / 0.9		1	20	#12	RECEPT - CORRIDOR	58	
	59	RECEPT - CORRIDOR	#12	20	1			0.5 / 0.2	1	20	#12	RECEPT - RESTROOM	60	
	61	RECEPT - ELECTRICAL	#12	20	1	0.2 / 1.0			1	20	#12	MOTORIZED SHADES	62	
	63	MOTORIZED SHADES	#12	20	1		1.0 / 1.0		1	20	#12	MOTORIZED SHADES	64	
	65	MOTORIZED SHADES	#12	20	1			1.0 / 0.1	1	20	#12	LIGHTING - ART UNDER COUNTER	66	
	67	FACP	#12	20	1	0.1 / 0.3			1	20	#12	LIGHTING - CHEMISTRY UNDER COUNTER	68	
	69	LIGHTING - BIOLOGY UNDER COUNTER	#12	20	1		0.3 / 0.3		1	20	#12	LIGHTING - CHEMISTRY UNDER COUNTER	70	
	71	RECEPT - CHEMISTRY LAB BENCH	#12	20	1			0.2 / 0.2	1	20	#12	LIGHTING - BIOLOGY UNDER COUNTER	72	
	73	LIGHTING - MAKER SPACE UNDER COUNTER	#12	20	1	0.3 / 0.2			1	20	#12	RECEPT - BIOLOGY LAB BENCH	74	
	75	MICROSCOPE CHARGING STATION	#12	20	1		0.2 / 0.4		1	20	#12	EF-3	76	
	77	EF-1	#12	20	1			0.4 / 0.4	1	20	#12	EF-6	78	
	79	EF-5	#12	20	1	0.2 / 1.2			2	20	#12	DCU-1	80	
	81	EF-7	#12	20	1		0.1 / 1.2						82	
	83	EF-8	#12	20	1			0.1 / 0.0	1	20	#12	GWH-1	84	
	85	CONDENSATE PUMP DMS-1	#12	20	2	0.3 / 0.1			1	20	#12	CP-1	86	
	87						0.3 / 0.1		1	20	#12	SMOKE DAMPER	88	
	89	RECEPT - CORRIDOR	#12	20	1			0.4 / 0.1	1	20	#12	BMCS	90	
	91	ACP	#12	20	1	0.2 / 0.5			1	20	#12	ACID ALARM PANEL	92	
	93	IDP	#12	20	1		0.2 / 0.1						94	
	95	SPARE		20	1			0.0 / 0.1	3	20	#12	RECEOT - REFRIGERATED DRYER	96	
	97	SPARE		20	1	0.0 / 0.1							98	
	99	SPARE		20	1		0.0 / 0.0		1	20		SPARE	100	
	101	SPARE		20	1			0.0 / 0.0	1	20		SPARE	102	
	103	SPARE		20	1	0.0 / 0.0			1	20		SPARE	104	
	105	SPARE		20	1		0.0 / 0.0		1	20		SPARE	106	
	107	SPARE		20	1			0.0 / 0.0	1	20		SPARE	108	
	109	SPARE		20	1	0.0 / 0.0			1	20		SPARE	110	
	111	SPARE		20	1		0.0 / 0.0		1	20		SPARE	112	
	113	SPARE		20	1			0.0 / 0.0	1	20		SPARE	114	
	115	SPARE		20	1	0.0 / 0.0			1	20		SPARE	116	
	117	SPARE		20	1		0.0 / 0.0		1	20		SPARE	118	
	119	SPARE		20	1			0.0 / 0.0	1	20		SPARE	120	
	121					0.0 / 0.0			1	20		SPARE	122	
	123	SPD	#6	60	3		0.0 / 0.0		1	20		SPARE	124	
	125							0.0 / 0.0	1	20		SPARE	126	
			Total Load:			12.8 kVA	13.6 kVA	10.3 kVA						
			Total Amps:			110 A	116 A	86 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	4.2 kVA	100.00%	4.2 kVA		
Lighting	1.4 kVA	125.00%	1.8 kVA	**Total Conn. Load:**	36.7 kVA
Miscellaneous	0.9 kVA	100.00%	0.9 kVA	**Total Est. Demand:**	31.3 kVA
Power	8.8 kVA	100.00%	8.8 kVA	**Total Conn. Current:**	102 A
Receptacles	21.4 kVA	73.34%	15.7 kVA	**Total Est. Demand Current:**	87 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
M - PROVIDE METERING DEVICE

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E7.1
ELECTRICAL PANEL SCHEDULES

GENERAL NOTES

1. EXISTING DEVICES AND CABLING SHALL BE PROTECTED DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY CABLING OR DEVICES DAMAGED AT NO COST TO THE OWNER.

FIRE ALARM

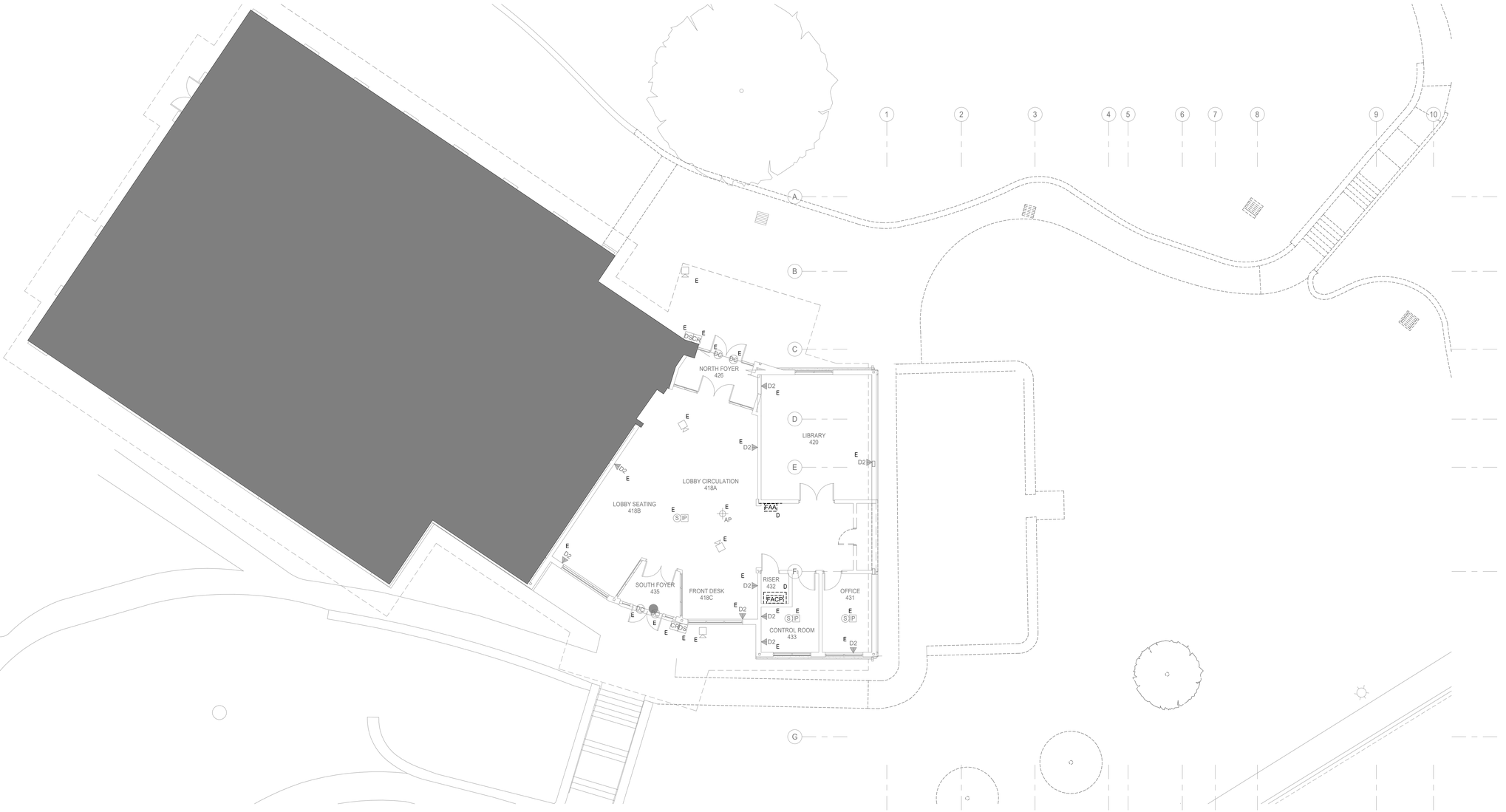
A. FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28 46 00. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B. A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WIT THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND HE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

C. PROJECT SCOPE INCLUDES REPLACING EXISTING FIRE ALARM SYSTEM WITH A NEW FIRE ALARM SYSTEM AND VOICE EVACUATION SYSTEM.

D. FIRE ALARM DEVICES ARE SHOWN FOR REFERENCE ONLY. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING LOCATIONS AND PROVIDING A COMPLETE AND FUNCTIONING CODE COMPLIANT SYSTEM.

E. EXISTING FIRE ALARM SYSTEM SHALL BE CONFIGURED FOR CONSTRUCTION AND SHALL REMAIN FULLY OPERATIONAL AND MONITORED UNTIL NEW FIRE ALARM SYSTEM IS COMPLETED AND ACCEPTED BY AHJ AND OWNER.



N

1 **TECHNOLOGY DEMO PLAN - LEVEL 1**
Scale: 1/8" = 1'-0"

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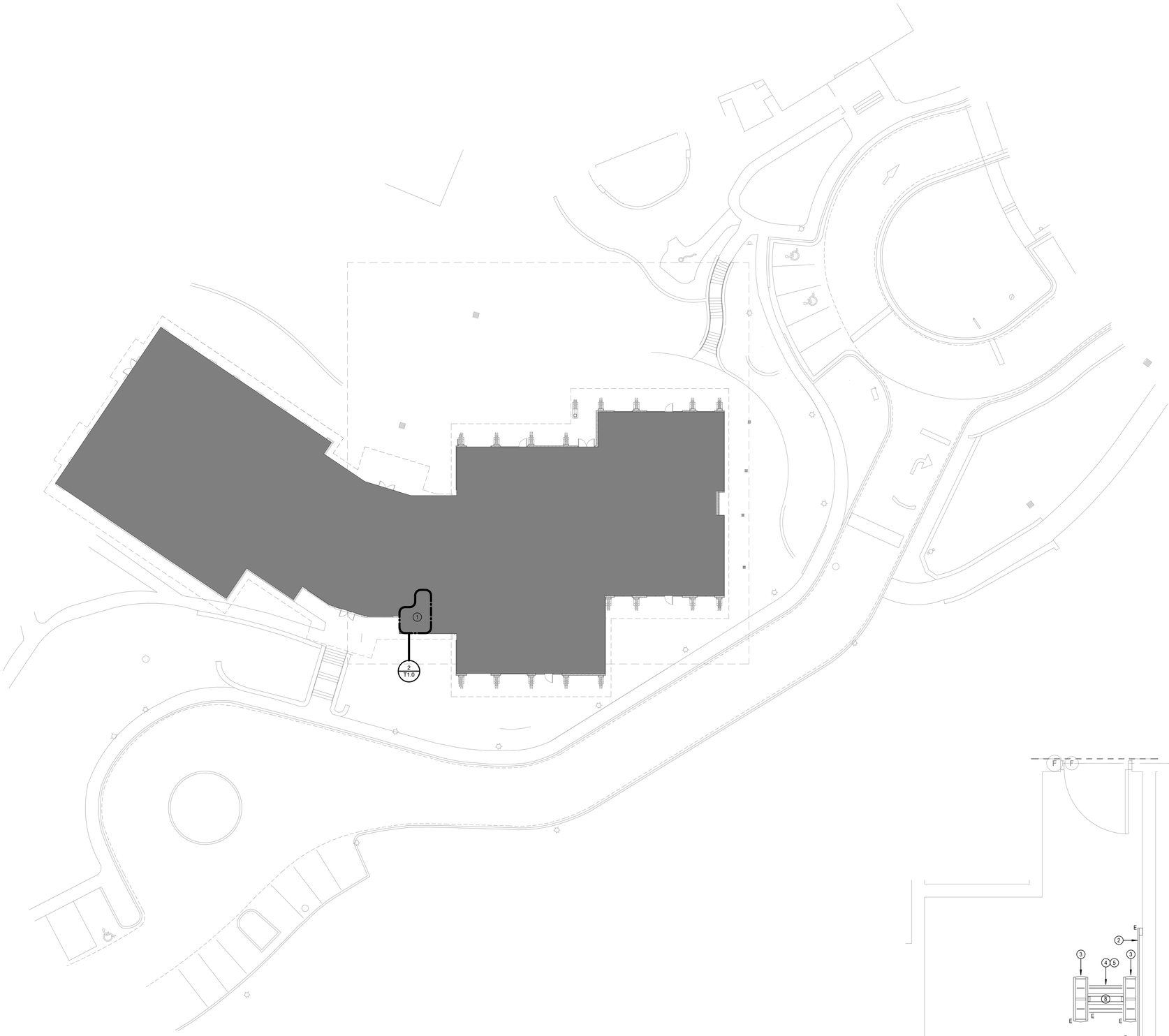
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TD1.1
TECHNOLOGY DEMO PLAN - LEVEL 1

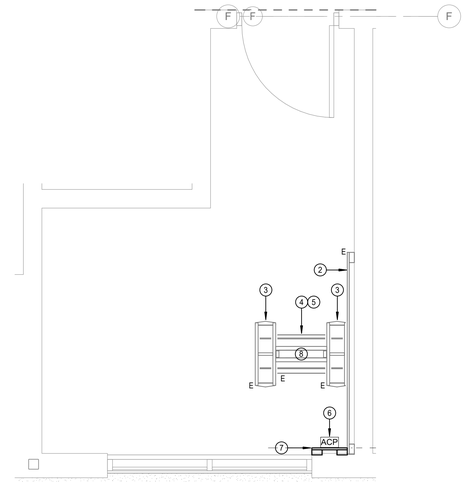
TECHNOLOGY KEYED NOTES

1	APPROXIMATE LOCATION OF NEAREST EXISTING MDF/ IDF ROOM.
2	EXISTING TO REMAIN FIRE RATED PLYWOOD.
3	EXISTING TO REMAIN VERTICAL CABLE MANAGER.
4	EXISTING TO REMAIN 2-POST NETWORK RACK.
5	EXISTING INTERCOM EQUIPMENT LOCATION. PROVIDE NEW EQUIPMENT, AS NECESSARY, TO EXPAND INTERCOM SYSTEM.
6	ACCESS CONTROL PANEL.
7	INDICATES THE LOCATION OF AN 8' TALL, 3/4" FIRE RATED PLYWOOD SHEET. CONTRACTOR TO PROVIDE AND INSTALL PLYWOOD AND ALL REQUIRED MOUNTING HARDWARE.
8	CONTRACTOR TO PROVIDE ACTIVE NETWORK EQUIPMENT PER SPECIFICATIONS.



N

1 **TECHNOLOGY PLAN - SITE**
Scale: 1/16" = 1'-0"



N

2 **TECHNOLOGY ENLARGED PLAN - MDF/ IDF ROOM**
Scale: 1/2" = 1'-0"

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T1.0
TECHNOLOGY SITE PLAN

GENERAL NOTES

1. EXISTING DEVICES AND CABLING SHALL BE PROTECTED DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY CABLING OR DEVICES DAMAGED AT NO COST TO THE OWNER.

TECHNOLOGY KEYED NOTES

1	DATA DROP TO BE FOR VAPE DETECTION DEVICE.
2	NEW INTRUSION DETECTION PANEL.
3	CENTER CLOCK ABOVE IVD.

FIRE ALARM

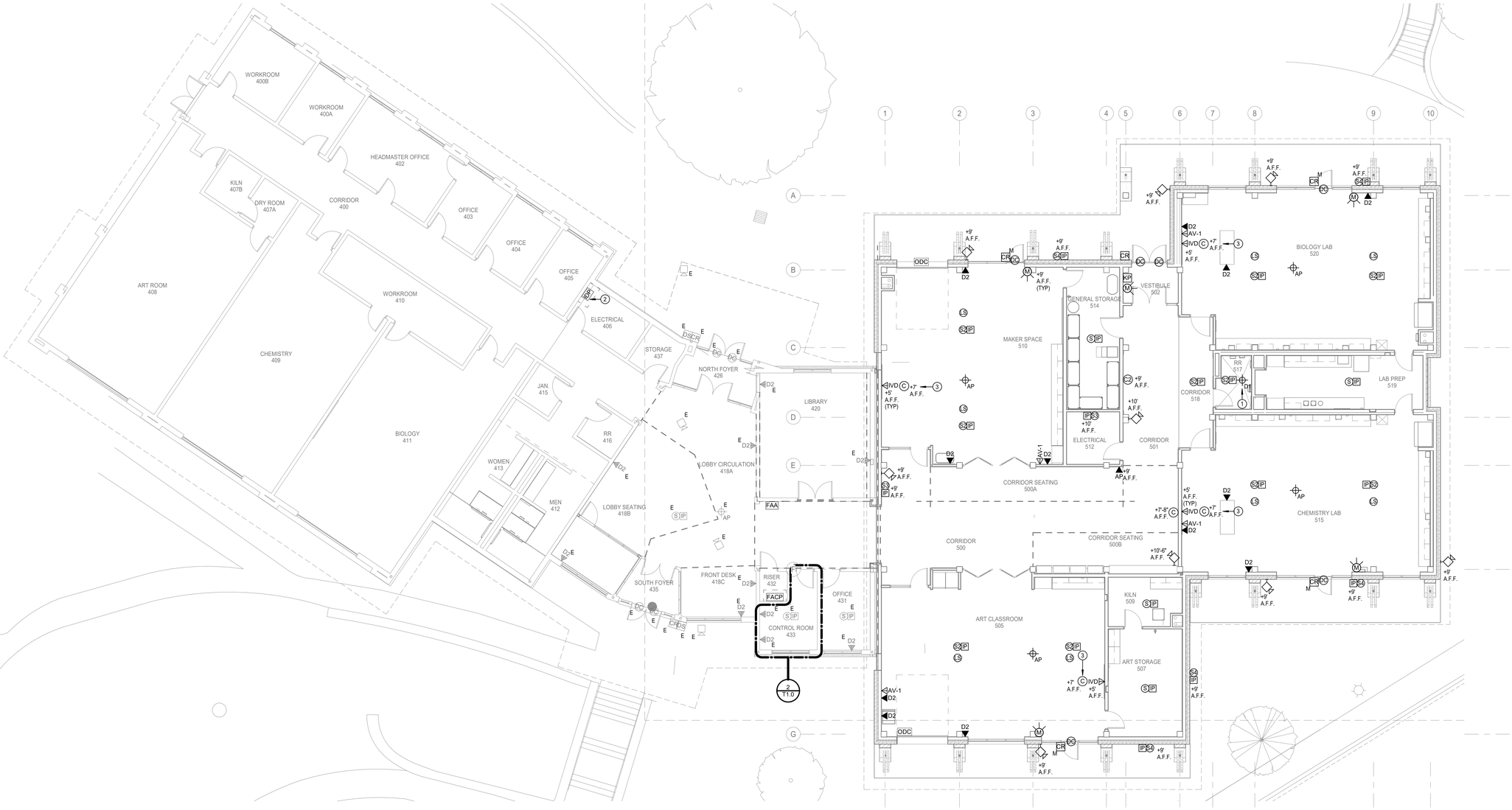
A. FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28 46 00. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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N

1 **TECHNOLOGY PLAN - LEVEL 1**
Scale: 1/8" = 1'-0"

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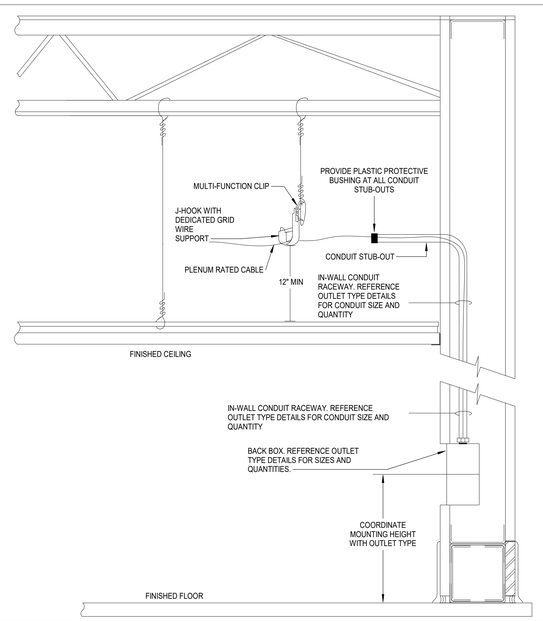
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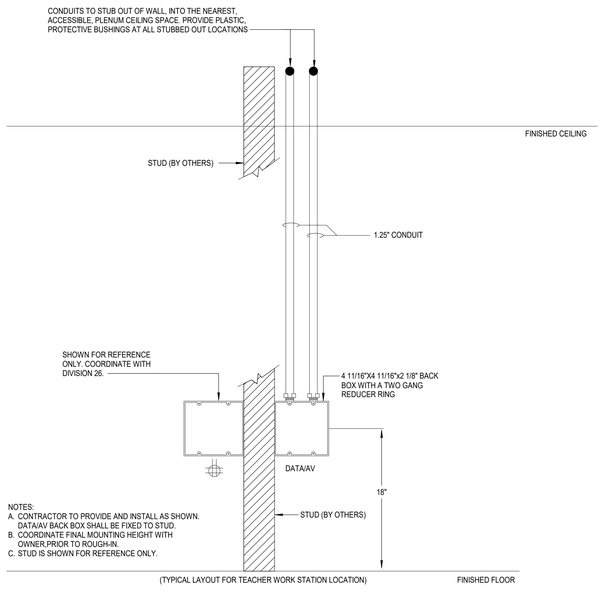
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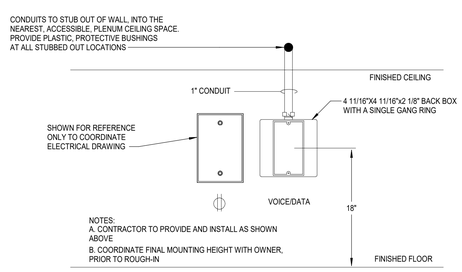
T2.1
TECHNOLOGY PLAN - LEVEL 1



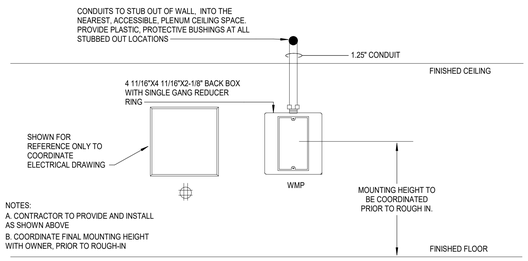
01 LOW VOLTAGE ELEVATION - IN-WALL RACEWAY — NOT TO SCALE



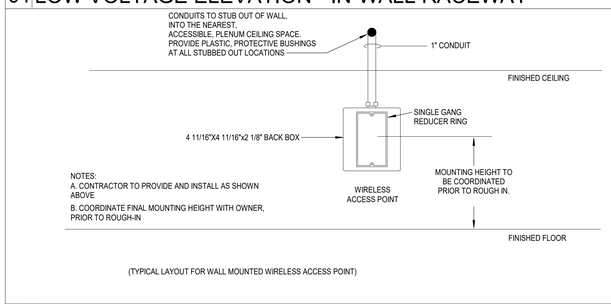
02 RACEWAY DETAIL - TYPICAL INSTRUCTORS OUTLET — NOT TO SCALE



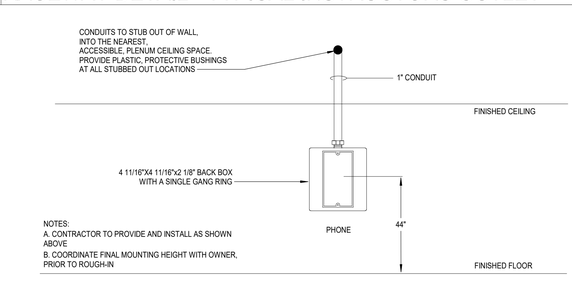
03 RACEWAY DETAIL - TYPICAL VOICE/DATA OUTLET — NOT TO SCALE



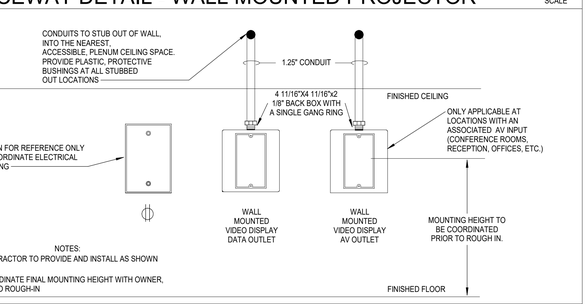
04 RACEWAY DETAIL - WALL MOUNTED PROJECTOR — NOT TO SCALE



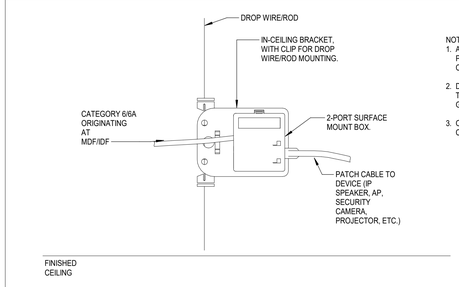
05 RACEWAY DETAIL - WALL MOUNTED WIRELESS AP — NOT TO SCALE



06 RACEWAY DETAIL - WALL MOUNTED TELEPHONE — NOT TO SCALE

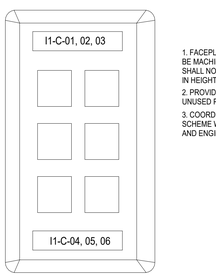


07 RACEWAY DETAIL - WALL MOUNTED DISPLAY — NOT TO SCALE



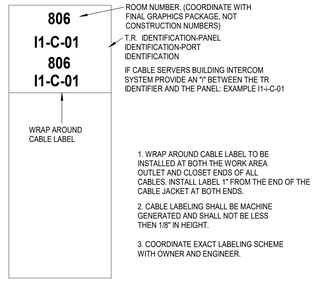
NOTE:
1. ALL ITEMS SHOWN IN THIS DETAIL SHALL BE PROVIDED AND INSTALLED BY THE STRUCTURED CABLING SYSTEM INSTALLER.
2. DROP WIRE SUPPORT SHALL BE DEDICATED TO THE OUTLET. DO NOT MOUNT TO EXISTING CEILING GRID WIRE.
3. OUTLET SHALL BE LOCATED WITHIN 3' OF THE CEILING AND WITH 5' FROM THE IP DEVICE.

08 ABOVE CEILING STAND ALONE OUTLET — NOT TO SCALE



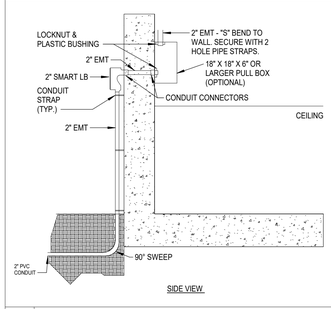
1. FACEPLATE LABELING SHALL BE MACHINE GENERATED AND SHALL NOT BE LESS THEN 1/4" IN HEIGHT
2. PROVIDE BLANK INSERTS FOR ANY UNUSED PORTS
3. COORDINATE EXACT LABELING SCHEME WITH OWNER AND ENGINEER.

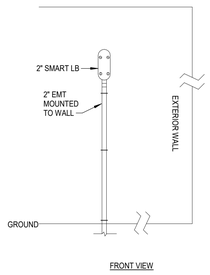
09 FACEPLATE LABEL DETAIL — NOT TO SCALE



1. WRAP AROUND CABLE LABEL TO BE INSTALLED AT BOTH THE WORK AREA OUTLET AND CLOSET ENDS OF ALL CABLES. INSTALL LABEL 1" FROM THE END OF THE CABLE JACKET AT BOTH ENDS.
2. CABLE LABELING SHALL BE MACHINE GENERATED AND SHALL NOT BE LESS THEN 1/8" IN HEIGHT.
3. COORDINATE EXACT LABELING SCHEME WITH OWNER AND ENGINEER.

10 CABLE LABEL DETAIL — NOT TO SCALE





11 HIGH ENTRY POINT DETAIL — NOT TO SCALE

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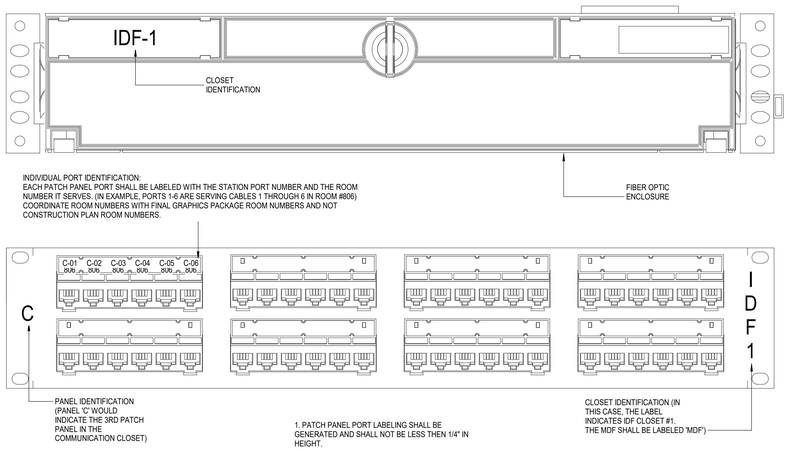
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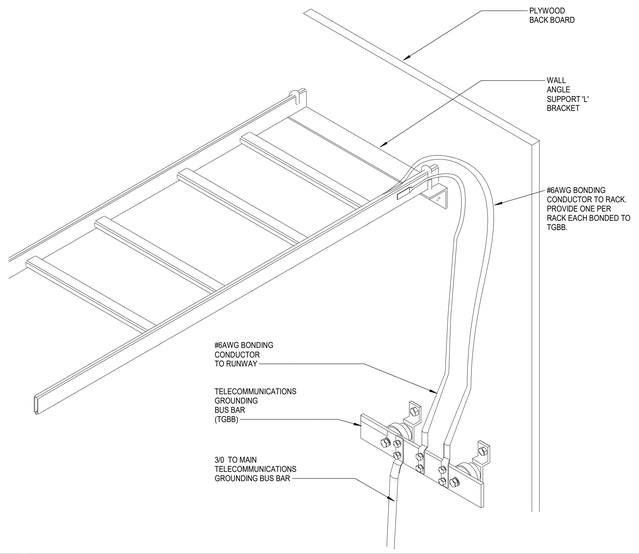
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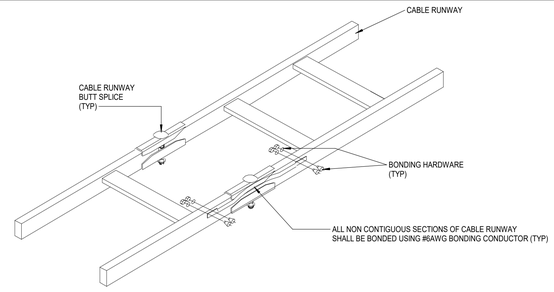
T3.1
TECHNOLOGY DETAILS



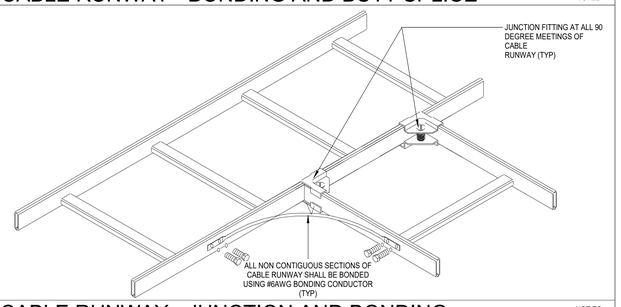
01 FIBER ENCLOSURE/ COPPER PATCH PANEL LABELING DETAIL — NOT TO SCALE



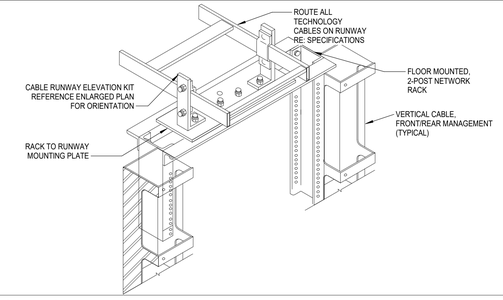
02 CABLE RUNWAY - GROUNDING AND BONDING — NOT TO SCALE



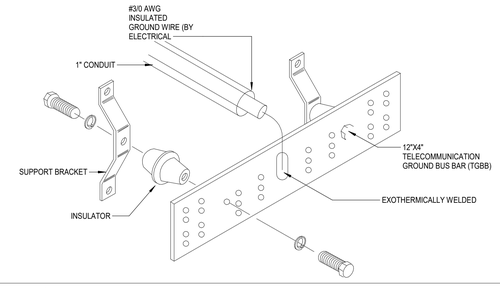
03 CABLE RUNWAY - BONDING AND BUTT SPLICE — NOT TO SCALE



04 CABLE RUNWAY - JUNCTION AND BONDING — NOT TO SCALE



05 RACK TO RUNWAY DETAIL — NOT TO SCALE



06 TELECOMMUNICATION GROUNDING BUS DETAIL — NOT TO SCALE

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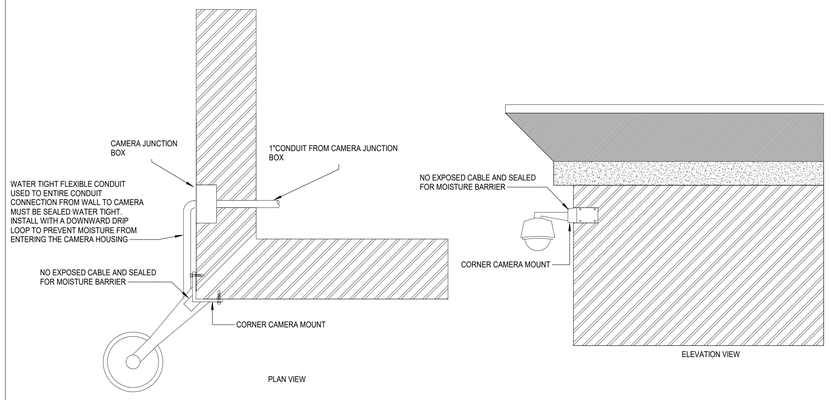
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DRAWN BY HP/MV
CHECKED BY AY
BRW PROJECT NUMBER 225057.00

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NO.	REVISION	DATE

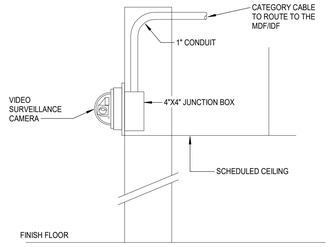
T3.2
TECHNOLOGY DETAILS



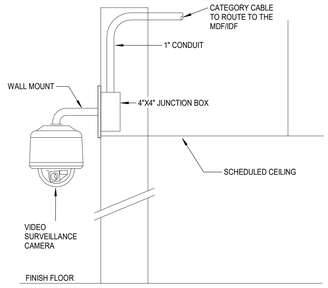
NOTE:

ELECTRICAL CONTRACTOR SHALL PROVIDE 1" CONDUIT WITH PULL STRING TO NEAREST AVAILABLE PLENUM SPACE. SECURITY CONTRACTORS SHALL PROVIDE CABLE FEED-THROUGH MOUNT FOR CAMERA. NO EXPOSED CABLE WILL BE ALLOWED. SECURITY CONTRACTOR TO COORDINATE MOUNTING HEIGHT WITH ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.

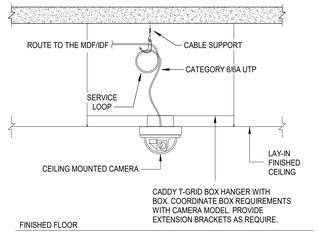
01 CORNER MOUNTING DETAIL — NOT TO SCALE



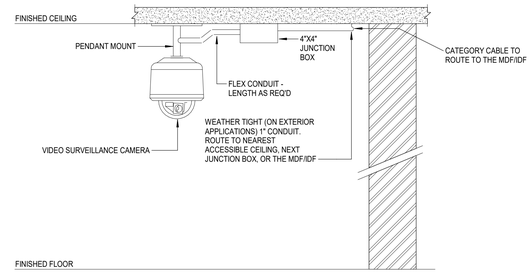
02 INTERIOR WALL MOUNT CAMERA-VERTICAL — NOT TO SCALE



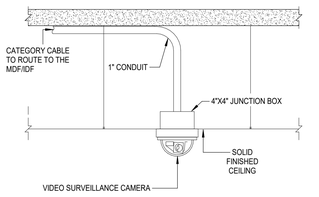
03 INTERIOR WALL MOUNTED DOME CAMERA — NOT TO SCALE



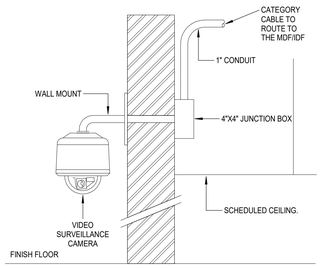
04 INTERIOR LAY-IN CEILING MOUNTED CAMERA — NOT TO SCALE



05 EXT./INT. PENDANT MOUNTED DOME CAMERA — NOT TO SCALE



06 EXTERIOR/INTERIOR SOLID CEILING MOUNT CAMERA — NOT TO SCALE



07 EXTERIOR WALL MOUNTED DOME CAMERA — NOT TO SCALE

GENERAL NOTES:

A. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUITS AND BACK BOXES. CONDUITS SHALL ROUTE TO THE NEAREST, ACCESSIBLE PLENUM SPACE.

B. ALL WALL, CORNER, PENDANT, AND UNDER CANOPY MOUNTING HEIGHTS SHALL BE COORDINATED WITH THE OWNER AND SECURITY CONSULTANT PRIOR TO ROUGH-IN.

C. SECURITY CONTRACTOR SHALL PROVIDE CAMERAS, MOUNTING HARDWARE, AND ANY OTHER COMPONENTS AND/OR HARDWARE REQUIRED FOR A COMPLETE INSTALLATION.

D. REFERENCE VIDEO SURVEILLANCE CAMERA SCHEDULES, FLOOR PLANS, AND SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.

E. CABLE FEED-THROUGH MOUNT FOR CAMERA. NO EXPOSED CABLE WILL BE ALLOWED. SECURITY CONTRACTOR TO COORDINATE MOUNTING HEIGHT WITH ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.

08 NOTES — NOT TO SCALE

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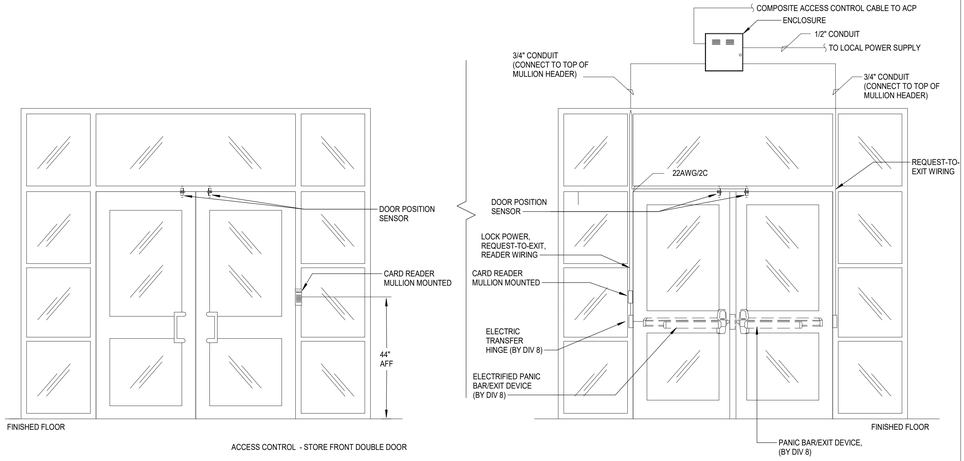
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WESTLAKE, TX 76262

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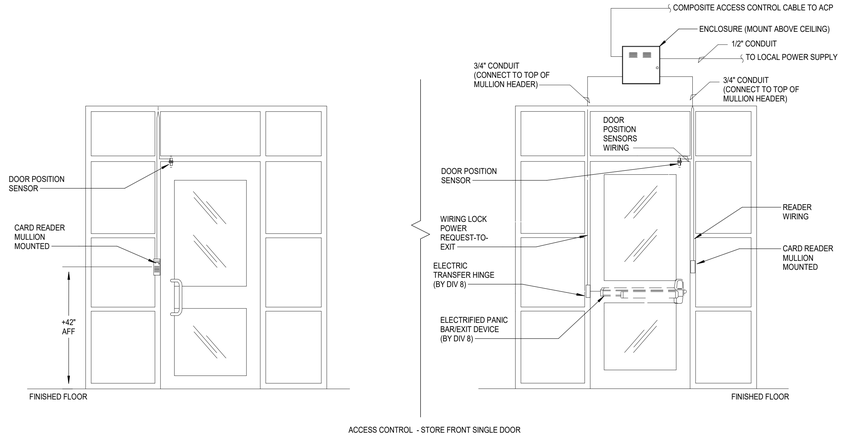
T3.3
TECHNOLOGY DETAILS



ACCESS CONTROL - STORE FRONT DOUBLE DOOR

01 ACCESS CONTROL - STORE FRONT DOUBLE DOOR

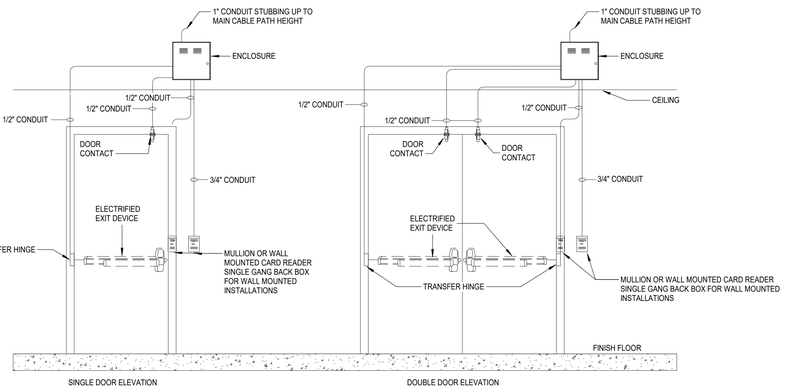
NOT TO SCALE



ACCESS CONTROL - STORE FRONT SINGLE DOOR

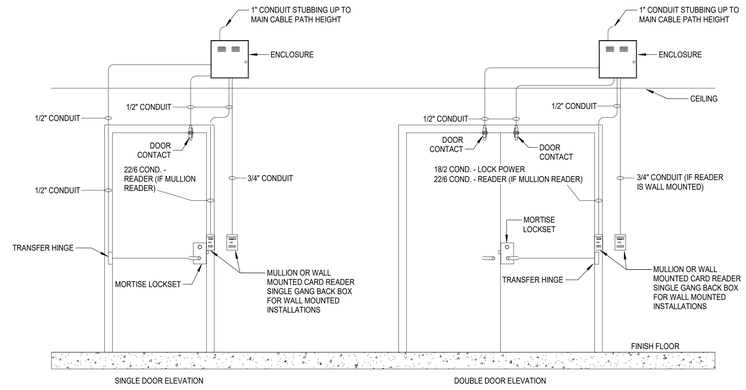
02 ACCESS CONTROL - STORE FRONT SINGLE DOOR

NOT TO SCALE



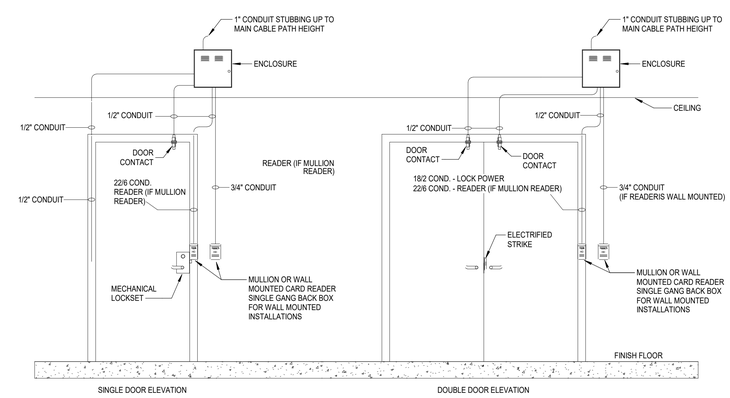
03 ACCESS CONTROL - EXIT DEVICE DOOR ELEVATION

NOT TO SCALE



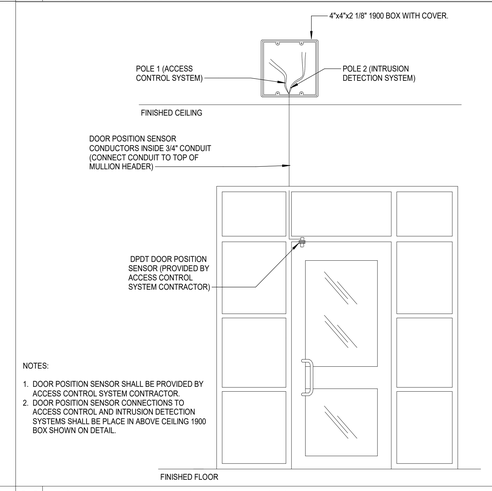
04 ACCESS CONTROL - MORTISE LOCK DOOR ELEVATION

NOT TO SCALE



05 ACCESS CONTROL - ELECTRIFIED STRIKE DOOR ELEVATION

NOT TO SCALE



NOTES:

1. DOOR POSITION SENSOR SHALL BE PROVIDED BY ACCESS CONTROL SYSTEM CONTRACTOR.
2. DOOR POSITION SENSOR CONNECTIONS TO ACCESS CONTROL AND INTRUSION DETECTION SYSTEMS SHALL BE PLACE IN ABOVE CEILING 1900 BOX SHOWN ON DETAIL.

06 DOOR POSITION SENSOR ELEVATION

NOT TO SCALE

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T3.4
TECHNOLOGY DETAILS

TECHNOLOGY LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
*# ▼	WALL MOUNTED NETWORK OUTLET D#: NUMBER OF DATA DROPS IN OUTLET AP: WIRELESS ACCESS POINT	+18" AFF, UNLESS OTHERWISE NOTED	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #6
V# ▽	COMMUNICATIONS OUTLET	FIELD COORDINATE	FIELD COORDINATE	
W ▼	WALL MOUNTED NETWORK OUTLET	+44" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
B ▽	WALL MOUNTED BOX FOR FUTURE USE.	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
D# ▼	FLOOR MOUNTED NETWORK OUTLET	N/A	COORDINATE WITH ELECTRICAL CONTRACTOR	FINISHED HARDWARE PROVIDED BY DIV 27
*#	CEILING MOUNTED NETWORK OUTLET AP: WIRELESS ACCESS POINT D#: NETWORK OUTLET	ABOVE CEILING	CEILING BRACKET WITH BISCUIT BLOCK	NOTE #6

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE.
4. CONDUIT STUB UP AND SLEEVES SHALL HAVE A SOLID UNCUT PLASTIC PROTECTIVE BUSHING.
5. NO CONDUITS SHALL EXCEED FOR 40% MAXIMUM FILL RATIO. CONTRACTOR TO PROVIDE ADDITIONAL CONDUITS REQUIRED.
6. CONTRACTOR TO PROVIDE ACTIVE NETWORK EQUIPMENT PER SPECIFICATIONS.

ACCESS CONTROL LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ACP	ACCESS CONTROL SYSTEM, CONTROL PANEL.	+60" AFF TO CENTER	AS REQUIRED	COORDINATE POWER. NOTE #4.
CR *#	ACCESS CONTROL CARD READER. *W - INDICATES WALL MOUNTED READER *M - INDICATES MULLION MOUNTED READER	+42" A.F.F.	1-G, 3/4" C	
CR	DOOR MOUNTED ACCESS CONTROL CARD READER THAT IS INTEGRATED INTO THE DOOR HARDWARE.	+42" AFF	N/A	
DS *#	2-WAY AUDIO/VIDEO INTERCOM DOOR STATION. *W - INDICATES WALL MOUNTED READER *M - INDICATES MULLION MOUNTED READER	+42" AFF	*W: 1-G, 3/4" C *M: 3/4"C	COORDINATE POWER. NOTE #4.
DS	DOOR MOUNTED, 2-WAY AUDIO/VIDEO INTERCOM DOOR STATION.	+42" AFF, FIELD COORDINATE		COORDINATE POWER. NOTE #4.
MS	2-WAY AUDIO/VIDEO INTERCOM MASTER STATION.	DESK MOUNTED UNO		COORDINATE POWER. NOTE #4.
DR	DOOR RELEASE BUTTON	COORDINATE WITH GC	1-G, 3/4" C	
REX	PIR MOTION REQUEST TO EXIT DEVICE			
DP	DOOR PROP ALARM	CEILING MOUNTED UNO	N/A	N/A
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	PROVIDED BY ACS CONTRACTOR.
RFID	VEHICLE RFID TAG READER.		FIELD COORDINATE RACEWAYS AND BACK BOXES	PROVIDE NECESSARY EQUIPMENT FOR A FULLY FUNCTIONAL VEHICLE ENTRY POINT

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTERCOM LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ICS	INTERCOM COMMUNICATIONS SYSTEM HEAD END UNIT.	FLOOR MOUNTED	COORDINATE WITH EC	COORDINATE POWER WITH EC
S	CEILING MOUNTED INTERCOM SPEAKER, LAY-IN CEILING	CEILING	CONTRACTOR PROVIDED	
S2	CEILING MOUNTED INTERCOM SPEAKER, HARD CEILING.	CEILING	CONTRACTOR PROVIDED	
S3	WALL MOUNTED INTERIOR INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
S4	WALL MOUNTED EXTERIOR INTERCOM SPEAKER	+10' AFF UNO	CONTRACTOR PROVIDED	
# IP	IP BASED SPEAKER. '#' TO BE REPLACED WITH S, S2, S3, S4 INDICATING THE SPECIFIC TYPE OF SPEAKER.	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	NOTE #5
VC	WALL MOUNTED VOLUME CONTROL	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
CB	INTERCOM CALL BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
C	SINGLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
C2	DOUBLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
RPS	REMOTE PROGRAM SOURCE	DESK TOP	COORDINATE WITH EC	NOTE #5
ACS	ADMINISTRATIVE CALL STATION.	DESK TOP	N/A	NOTE #5
LD	LOCKDOWN BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

VIDEO SURVEILLANCE LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
	WALL/CORNER MOUNT 4-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
	CEILING MOUNTED 4-SENSOR CAMERA	CEILING		NOTE #5
W W	2-SENSOR CAMERA W: INDICATES WALLMOUNTED CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
W	1-SENSOR CAMERA W: INDICATES WALLMOUNTED CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
VRS	VIDEO RECORDING SERVER			NOTE #5
#MU	VIDEO SURVEILLANCE MAIN UNIT	ABOVE CEILING		NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

AUDIO/VIDEO LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
WMP ▽	WALL MOUNTED PROJECTOR AV OUTPUT OUTLET	REFERENCE FLOOR PLANS.	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CMP	CEILING MOUNTED PROJECTOR AV OUTPUT OUTLET	CEILING MOUNTED	N/A	NOTE #5
AV-1 ▽	WALL MOUNTED AUDIO/VIDEO INPUT OUTLET	+18" AFF UNO	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	
FSD-1 ▽	WALL MOUNTED FLAT SCREEN DISPLAY AUDIO/VIDEO OUTPUT OUTLET	REFERENCE FLOOR PLAN	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
FSD-2 ▽	WALL MOUNTED FLAT SCREEN DISPLAY AUDIO/VIDEO OUTPUT OUTLET ASSOCIATED WITH AV-1 INPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
IVD ▽	INTERACTIVE VIDEO DISPLAY AUDIO/VIDEO OUTPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CP ▽	AV CONTROL PANEL	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
PS	LOCAL INSTRUCTIONAL SPACE PRESENTATION SPEAKER	CEILING	CONTRACTOR PROVIDED CEILING BOX	COORDINATE POWER WITH EC
	STREAMING CAMERA	CEILING UNO	N/A	NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

LOCAL SOUND SYSTEM LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
LS	LOCAL SOUND SYSTEM SPEAKER	CEILING MOUNT UNO	CONTRACTOR PROVIDED BACK BOX OR 4"X4"X2 1/8" J BOX WITH COVER, 1"C	
LSC	LOCAL SOUND SYSTEM CONTROL PLATE	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MI	MICROPHONE INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MA	COMBINATION OUTLET CONSISTING OF ONE (1) MICROPHONE INPUT AND ONE (1) AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
AI	3.5MM STEREO AUDIO AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
H	HANGING MICROPHONE	CEILING MOUNT	N/A	
ABM	AUXILIARY INPUT AND BLUETOOTH MIXER	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RACK	VENUE SPECIFIC LOCAL SOUND SYSTEM HEAD END RACK	WALL MOUNT UNO	N/A	
WA	WIRELESS ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
ALA	ASSISTED LISTENING ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
SUB	SUBWOOFER	CEILING MOUNT UNO		

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTRUSION LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
IDP	INTRUSION DETECTION SYSTEM CONTROL PANEL	+60" AFF	TWO(2) - 1"C TO CONTRACTOR PROVIDED BACK BOX	COORDINATE POWER WITH EC. NOTE #5
KP	INTRUSION DETECTION SYSTEM KEYPAD.	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
M	CEILING MOUNTED MOTION DETECTOR	CEILING		
M	WALL MOUNTED MOTION DETECTOR LR: LONG RANGE	REFERENCE FLOOR PLAN	N/A	
GB	CEILING MOUNTED GLASS BREAK DETECTOR	CEILING	N/A	
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	DEVICE PROVIDED BY ACS CONTRACTOR.
SDC	SURFACE MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
ODC	OVERHEAD DOOR MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
DB	DURESS PANIC BUTTON	UNDER DESK UNO	N/A	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. REFERENCE DIVISION 28 SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

FIRE ALARM

*PROJECT SCOPE INCLUDES REPLACING EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY WITH NEW VOICE EVACUATION FIRE ALARM SYSTEM. FIRE ALARM SYSTEM SHALL BE FULLY OPERATIONAL THROUGHOUT ALL PHASES OF CONSTRUCTION. DEMOLISH EXISTING SYSTEM ONCE NEW SYSTEM IS INSTALLED, TESTED, AND ACCEPTED BY THE AHJ.

*EXISTING FIELD DEVICE LOCATIONS SHALL BE REUSED WHENEVER POSSIBLE. INSTALL NEW FIRE ALARM SYSTEM SPEAKER AS SPECIFIED FOR VOICE EVACUATION.

LEGEND

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL
FAA	FIRE ALARM ANNUNCIATOR PANEL

NOTES:

1. FIRE ALARM SYSTEM IS PERFORMANCE BASED PER SPECIFICATIONS. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

2. A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

SUBSCRIPTS AND ABBREVIATIONS

TEXT	DESCRIPTION
'WP'	DEVICE SHALL BE WEATHER PROOF AND RATED FOR EXTERIOR CONDITIONS
•	FIELD COORDINATE ELEVATION
AFF	ABOVE FINISHED FLOOR
'UC'	DEVICE IS TO BE MOUNTED ON THE UNDERSIDE OF THE ELEVATED CANOPY

SUBSCRIPTS LEGEND - EXISTING DEVICES

TEXT	DESCRIPTION
'E'	EXISTING TO REMAIN.
'D'	DEVICE IS EXISTING AND IS TO BE REMOVED. CONTRACTOR TO REMOVE THE DEVICE AND RETURN TO OWNER.
'RR'	REMOVE EXISTING DEVICE AND RELOCATE TO A LOCATION INDICATED ON THE DRAWINGS.

NOTES TO CONTRACTOR

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.

2. SYSTEM INSTALLERS SHALL COORDINATE LOCATIONS AND CONNECTIONS WITH THE PROJECT'S ELECTRICAL CONTRACTOR.

3. CONTRACTOR TO PROVIDE PROPERLY GROUNDED LIGHTING PROTECTION ON ALL CABLING ENTERING AND EXITING THE BUILDING.

ISSUE FOR PROPOSALS

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STATE OF TEXAS
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DRAWN BY HP/MV
CHECKED BY AY
BRW PROJECT NUMBER 2250507.00

WESTLAKE ACADEMY
ARTS & SCIENCES ADDITION
2400 J.T. OTTINGER RD.
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NO.	REVISION	DATE

T4.0
TECHNOLOGY
SCHEDULES & LEGENDS