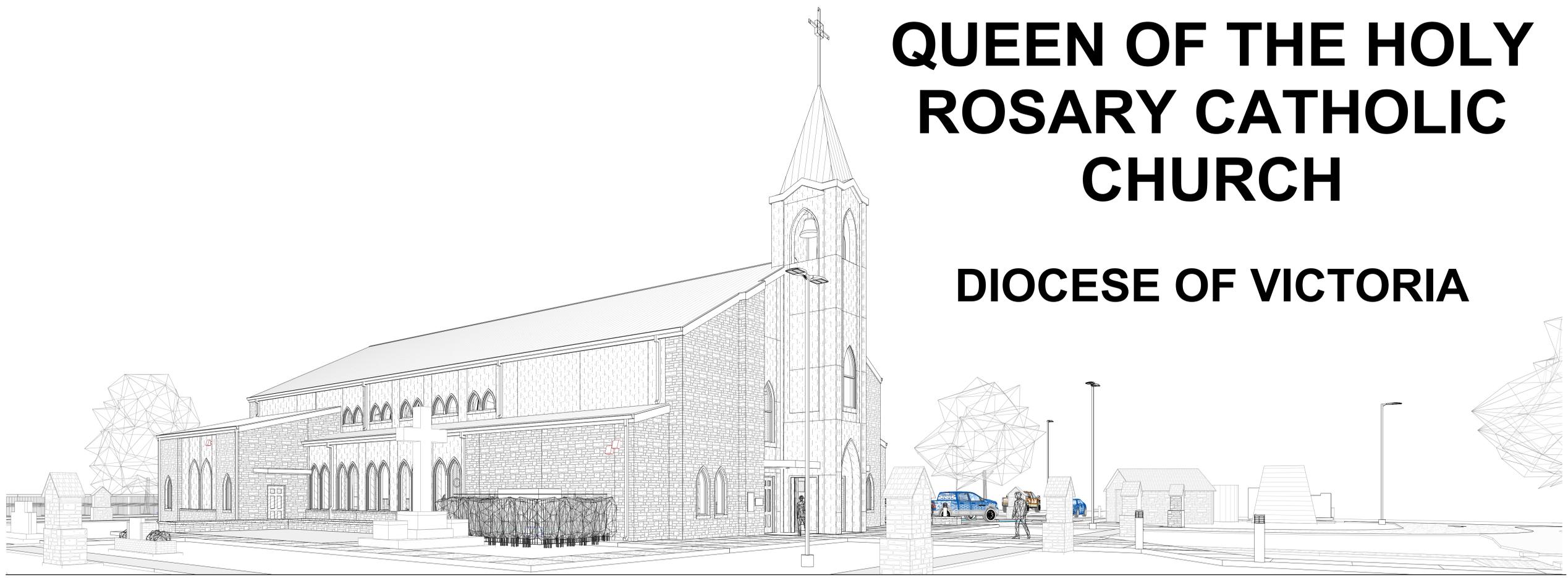


# QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH

## DIOCESE OF VICTORIA



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

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

SYMBOLS	
	BUILDING SECTION REFERENCE
	INTERIOR ELEVATION REFERENCE
	RESTROOM ACCESSORY REFER TO SHEET A2.2 FOR SCHEDULE
	MATERIAL REFERENCE REFER TO SHEET A8.0 FOR SCHEDULE
	WINDOW TYPE REFER TO SHEET A7.1 FOR ADDITIONAL INFORMATION
	DOOR NUMBER REFER TO SHEET A7.1 FOR ADDITIONAL INFORMATION
	ENLARGED PLAN/DETAIL REFERENCE
	WALL TYPE REFER TO SHEET A2.1 FOR ADDITIONAL INFORMATION

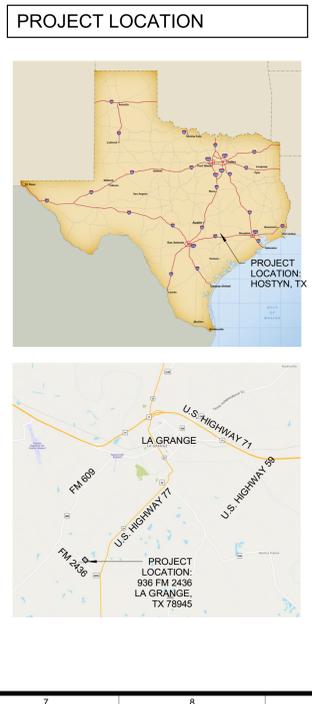


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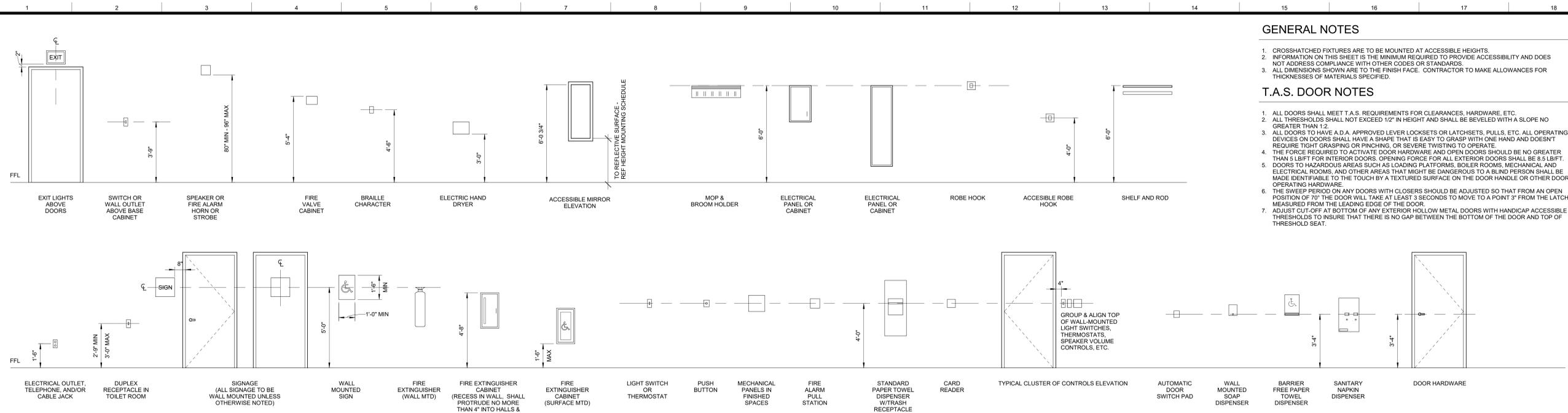
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**GENERAL NOTES**

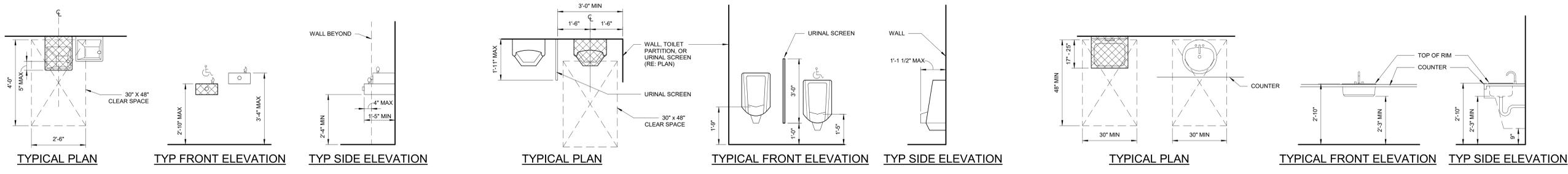
- CROSSHATCHED FIXTURES ARE TO BE MOUNTED AT ACCESSIBLE HEIGHTS.
- INFORMATION ON THIS SHEET IS THE MINIMUM REQUIRED TO PROVIDE ACCESSIBILITY AND DOES NOT ADDRESS COMPLIANCE WITH OTHER CODES OR STANDARDS.
- ALL DIMENSIONS SHOWN ARE TO THE FINISH FACE. CONTRACTOR TO MAKE ALLOWANCES FOR THICKNESSES OF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

**T.A.S. DOOR NOTES**

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



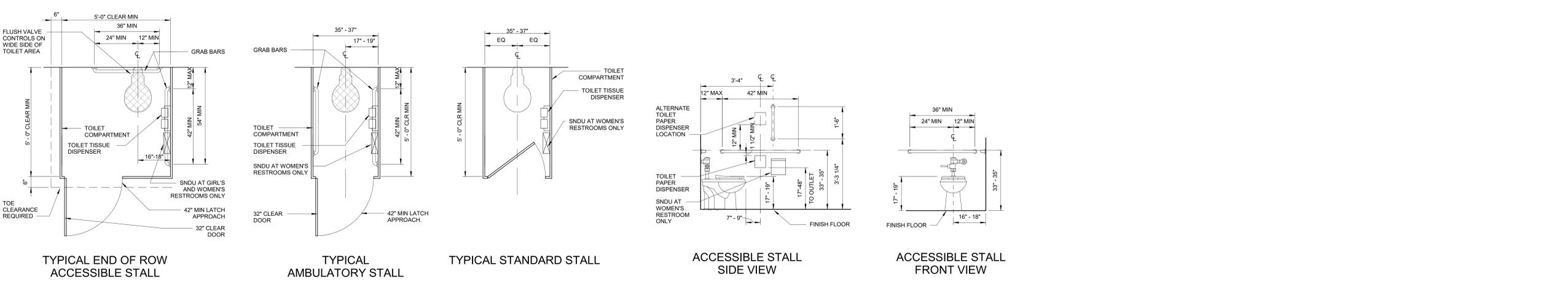
**K1 TYPICAL MOUNTING HEIGHTS** NOTE: ALL HEIGHTS ARE AS INDICATE UNLESS OTHERWISE NOTED  
 3/8" = 1'-0"



**G1 TYPICAL DRINKING FOUNTAIN**  
 1/2" = 1'-0"

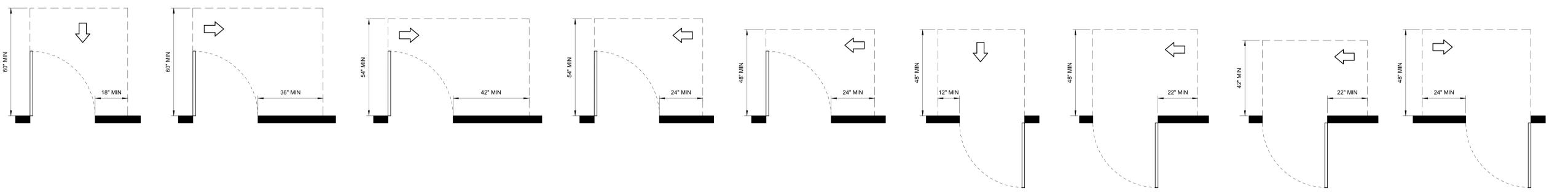
**G6 TYPICAL URINAL LAYOUT**  
 1/2" = 1'-0"

**G12 TYPICAL LAVATORY**  
 1/2" = 1'-0"

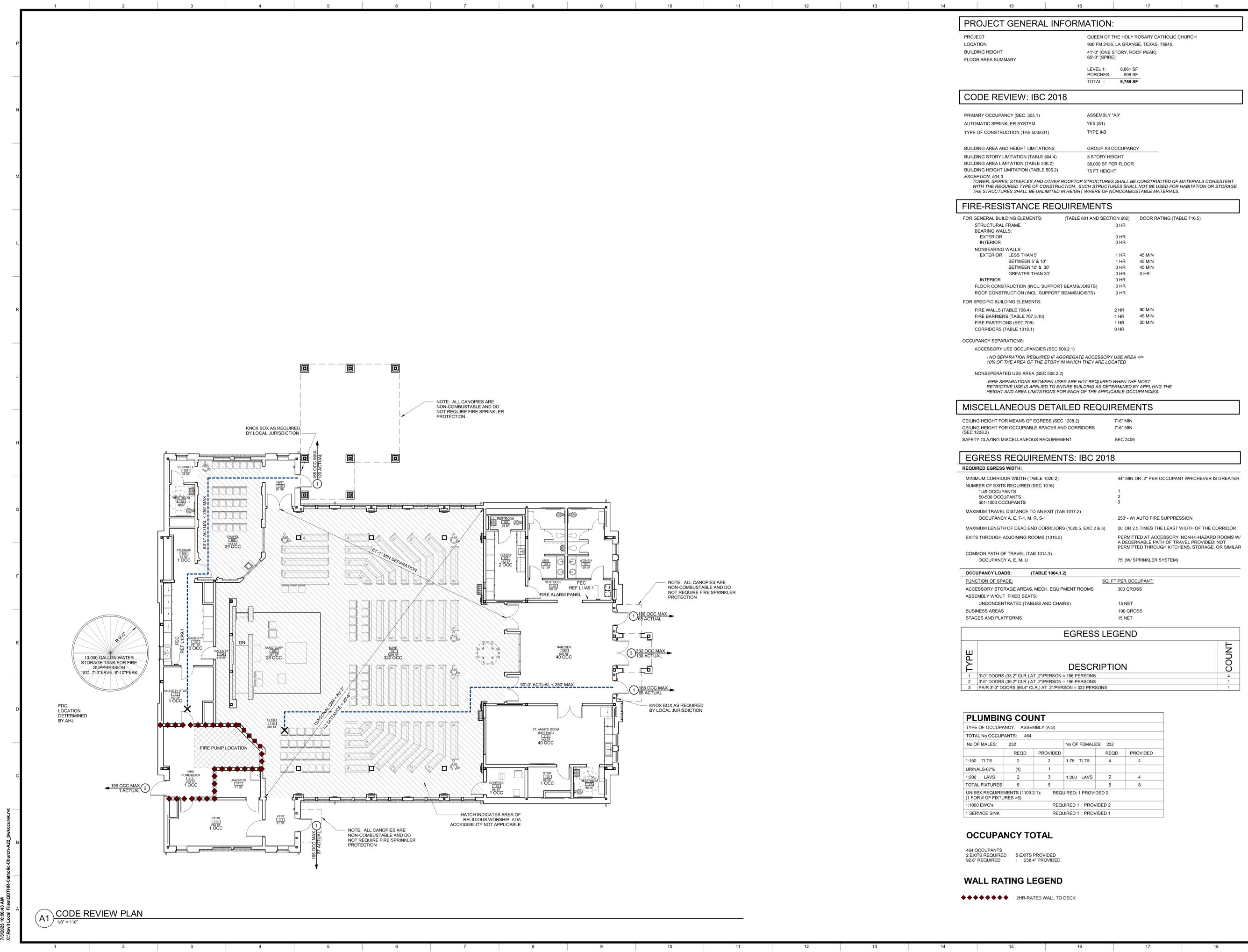


**D1 TYPICAL STANDARD TOILET STALL LAYOUTS**  
 1/2" = 1'-0"

**D8 TYPICAL STANDARD STALL MOUNTING HEIGHTS**  
 1/2" = 1'-0"



**A1 TYPICAL DOOR CLEARANCES**  
 1/2" = 1'-0"



PROJECT GENERAL INFORMATION:	
PROJECT	QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH
LOCATION	936 FM 2436, LA GRANGE, TEXAS, 78945
BUILDING HEIGHT	41'-0" (ONE STORY, ROOF PEAK)
FLOOR AREA SUMMARY	65'-0" (SPIRE)
	LEVEL 1: 8,861 SF
	PORCHES: 898 SF
	TOTAL = 9,759 SF

CODE REVIEW: IBC 2018	
PRIMARY OCCUPANCY (SEC. 305.1)	ASSEMBLY "A3"
AUTOMATIC SPRINKLER SYSTEM	YES (S1)
TYPE OF CONSTRUCTION (TAB 503/601)	TYPE II-B

BUILDING AREA AND HEIGHT LIMITATIONS	
BUILDING AREA LIMITATION (TABLE 506.2)	38,000 SF PER FLOOR
BUILDING HEIGHT LIMITATION (TABLE 506.2)	75 FT HEIGHT

EXCEPTION: 504.3  
TOWER, SPIRES, STEEPLES AND OTHER ROOFTOP STRUCTURES SHALL BE CONSTRUCTED OF MATERIALS CONSISTENT WITH THE REQUIRED TYPE OF CONSTRUCTION. SUCH STRUCTURES SHALL NOT BE USED FOR HABITATION OR STORAGE. THE STRUCTURES SHALL BE UNLIMITED IN HEIGHT WHERE OF NONCOMBUSTIBLE MATERIALS.

FIRE-RESISTANCE REQUIREMENTS		
FOR GENERAL BUILDING ELEMENTS: (TABLE 601 AND SECTION 602)		DOOR RATING (TABLE 716.5)
STRUCTURAL FRAME		0 HR
BEARING WALLS:		
EXTERIOR		0 HR
INTERIOR		0 HR
NONBEARING WALLS:		
EXTERIOR	LESS THAN 5'	1 HR 45 MIN
	BETWEEN 5' & 10'	1 HR 45 MIN
	BETWEEN 10' & 30'	0 HR 45 MIN
	GREATER THAN 30'	0 HR 0 MIN
INTERIOR		0 HR
FLOOR CONSTRUCTION (INCL. SUPPORT BEAMS/JOISTS)		0 HR
ROOF CONSTRUCTION (INCL. SUPPORT BEAMS/JOISTS)		0 HR
FOR SPECIFIC BUILDING ELEMENTS:		
FIRE WALLS (TABLE 706.4)	2 HR	90 MIN
FIRE BARRIERS (TABLE 707.3.10)	1 HR	45 MIN
FIRE PARTITIONS (SEC 708)	1 HR	20 MIN
CORRIDORS (TABLE 1018.1)	0 HR	

OCCUPANCY SEPARATIONS:  
ACCESSORY USE OCCUPANCIES (SEC 508.2.1)  
- NO SEPARATION REQUIRED IF AGGREGATE ACCESSORY USE AREA <= 10% OF THE AREA OF THE STORY IN WHICH THEY ARE LOCATED  
NONSEPARATED USE AREA (SEC 508.2.2)  
- FIRE SEPARATIONS BETWEEN USES ARE NOT REQUIRED WHEN THE MOST RETROFITIVE USE IS APPLIED TO ENTIRE BUILDING AS DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES.

MISCELLANEOUS DETAILED REQUIREMENTS	
CEILING HEIGHT FOR MEANS OF EGRESS (SEC 1208.2)	7'-6" MIN
CEILING HEIGHT FOR OCCUPIABLE SPACES AND CORRIDORS (SEC 1208.2)	7'-6" MIN
SAFETY GLAZING MISCELLANEOUS REQUIREMENT	SEC 2406

EGRESS REQUIREMENTS: IBC 2018	
REQUIRED EGRESS WIDTH:	
MINIMUM CORRIDOR WIDTH (TABLE 1020.2)	44" MIN OR .2" PER OCCUPANT WHICHEVER IS GREATER
NUMBER OF EXITS REQUIRED (SEC 1016)	
1-49 OCCUPANTS	1
50-500 OCCUPANTS	2
501-1000 OCCUPANTS	3
MAXIMUM TRAVEL DISTANCE TO AN EXIT (TAB 1017.2)	250' - W/ AUTO FIRE SUPPRESSION
OCCUPANCY A, E, F-1, M, R, S-1	
MAXIMUM LENGTH OF DEAD END CORRIDORS (1020.5, EXC 2 & 3)	20' OR 2.5 TIMES THE LEAST WIDTH OF THE CORRIDOR
EXITS THROUGH ADJOINING ROOMS (1016.2)	PERMITTED AT ACCESSORY, NON-HAZARDOUS ROOMS W/ A DESERVABLE PATH OF TRAVEL PROVIDED, NOT PERMITTED THROUGH KITCHENS, STORAGE, OR SIMILAR
COMMON PATH OF TRAVEL (TAB 1014.3)	75' (W/ SPRINKLER SYSTEM)
OCCUPANCY A, E, M, U	

OCCUPANCY LOADS: (TABLE 1004.1.2)	
FUNCTION OF SPACE:	SQ. FT PER OCCUPANT:
ACCESSORY STORAGE AREAS, MECH. EQUIPMENT ROOMS	300 GROSS
ASSEMBLY W/OUT FIXED SEATS:	
UNCONCENTRATED (TABLES AND CHAIRS)	15 NET
BUSINESS AREAS	100 GROSS
STAGES AND PLATFORMS	15 NET

EGRESS LEGEND		
TYPE	DESCRIPTION	COUNT
1	3'-0" DOORS (33.2" CLR.) AT .2"/PERSON = 166 PERSONS	4
2	3'-6" DOORS (39.2" CLR.) AT .2"/PERSON = 196 PERSONS	1
3	PAIR 3'-0" DOORS (66.4" CLR.) AT .2"/PERSON = 332 PERSONS	1

PLUMBING COUNT					
TYPE OF OCCUPANCY: ASSEMBLY (A-3)					
TOTAL No OCCUPANTS: 464					
No OF MALES: 232			No OF FEMALES: 232		
1:150 TLTS	REQD	PROVIDED	1:75 TLTS	REQD	PROVIDED
URINALS-67%	[1]	1			
1:200 LAVS	2	3	1:200 LAVS	2	4
TOTAL FIXTURES	5	5		5	8
UNISEX REQUIREMENTS (1109.2.1): REQUIRED: 1 PROVIDED 2 (1 FOR # OF FIXTURES > 6)					
1:1000 EWC's			REQUIRED 1; PROVIDED 2		
1 SERVICE SINK			REQUIRED 1; PROVIDED 1		

OCCUPANCY TOTAL	
464 OCCUPANTS	5 EXITS PROVIDED
2 EXITS REQUIRED	: 238.4" PROVIDED
92.8" REQUIRED	

WALL RATING LEGEND	
◆◆◆◆◆	2HR-RATED WALL TO DECK

A1 CODE REVIEW PLAN  
1/8" = 1'-0"

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REGISTRATION NO. 22147  
STATE OF TEXAS

Final Plans for Bidding and Construction

REGISTERED ARCHITECT  
STATE OF TEXAS  
22147  
7.2.25

QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH  
DIOCESE OF VICTORIA  
HOUSTON, TX

DATE ISSUED:  
07-02-2025

PROJECT NUMBER:  
1024-0623

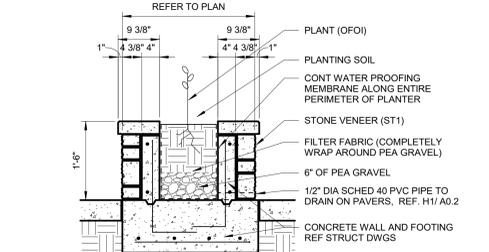
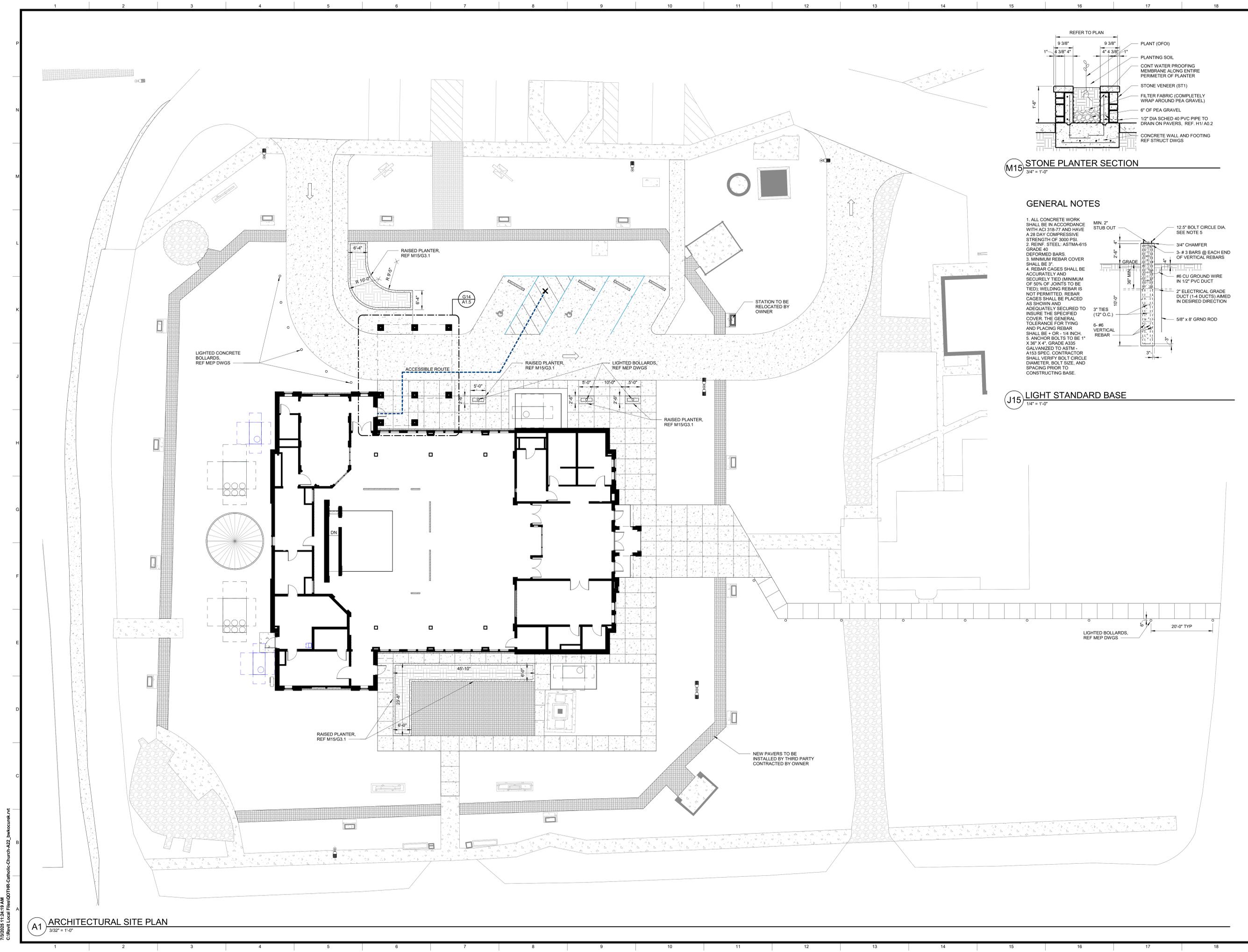
PLAN NORTH TRUE NORTH

SHEET NAME  
CODE REVIEW

SHEET NUMBER

**G2.1**

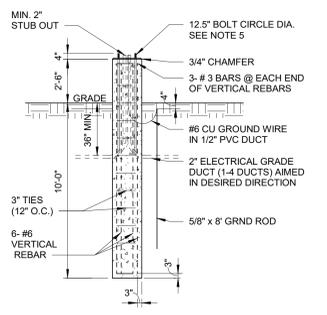
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**M15** STONE PLANTER SECTION  
3/4" = 1'-0"

**GENERAL NOTES**

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318-17 AND HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
2. REINF. STEEL: ASTM-A615 GRADE 40 DEFORMED BARS.
3. MINIMUM REBAR COVER SHALL BE 3".
4. REBAR CAGES SHALL BE ACCURATELY AND SECURELY TIED (MINIMUM OF 50% OF JOINTS TO BE TIED). WELDING REBAR IS NOT PERMITTED. REBAR CAGES SHALL BE PLACED AS SHOWN AND ADEQUATELY SECURED TO INSURE THE SPECIFIED COVER. THE GENERAL TOLERANCE FOR TYING AND PLACING REBAR SHALL BE + OR - 1/4 INCH.
5. ANCHOR BOLTS TO BE 1" X 36" X 4", GRADE A335 GALVANIZED TO ASTM-A153 SPEC. CONTRACTOR SHALL VERIFY BOLT CIRCLE DIAMETER, BOLT SIZE, AND SPACING PRIOR TO CONSTRUCTING BASE.



**J15** LIGHT STANDARD BASE  
1/4" = 1'-0"

**A1** ARCHITECTURAL SITE PLAN  
3/32" = 1'-0"

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Final Plans for Bidding and Construction

**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
**DIocese of Victoria**  
 HOUSTON, TX  
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DATE ISSUED:  
**07-02-2025**

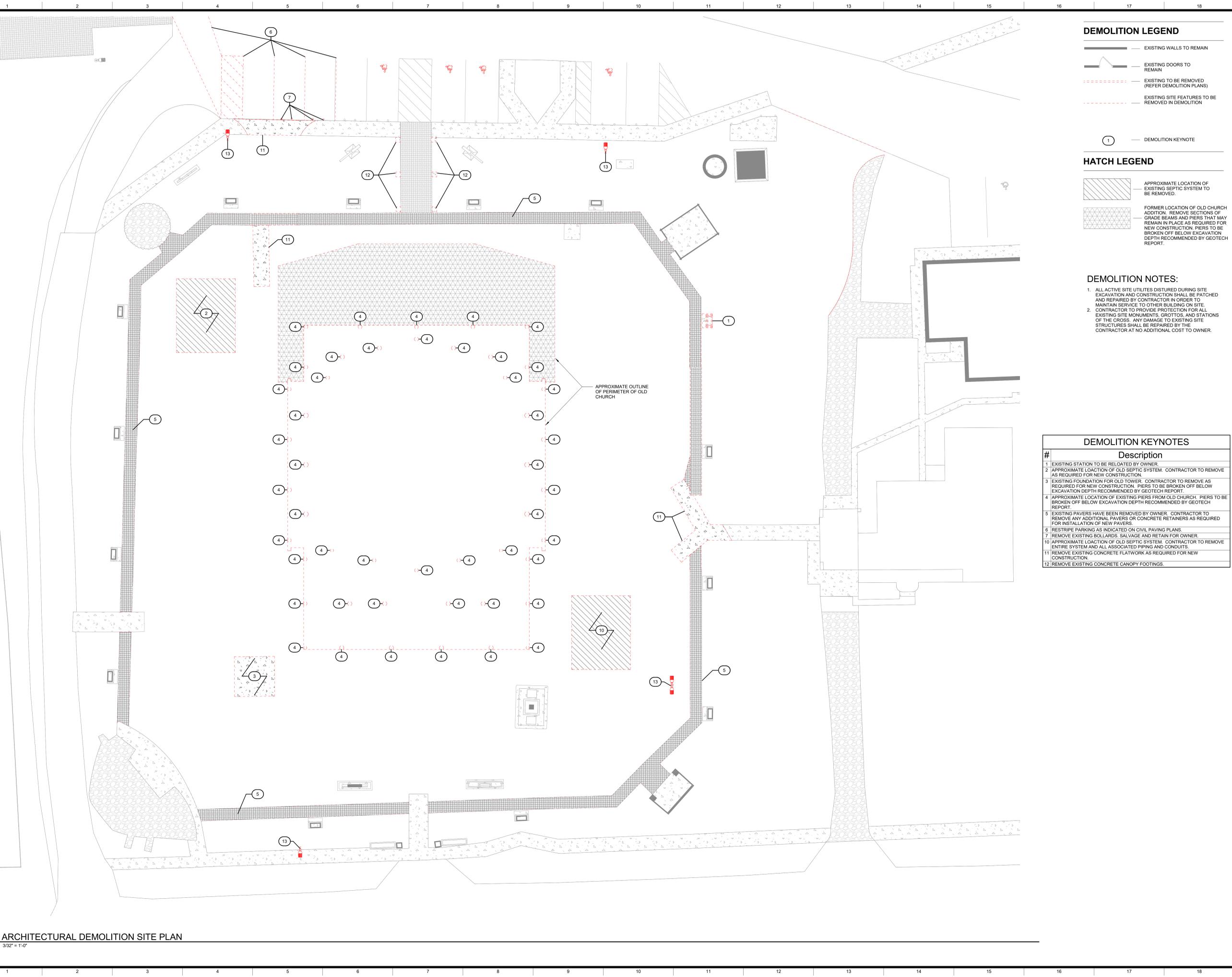
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PLAN NORTH    TRUE NORTH

SHEET NAME  
**ARCHITECTURAL SITE PLAN**

SHEET NUMBER  
**G3.1**

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**DEMOLITION LEGEND**

- EXISTING WALLS TO REMAIN
- EXISTING DOORS TO REMAIN
- - - - - EXISTING TO BE REMOVED (REFER DEMOLITION PLANS)
- - - - - EXISTING SITE FEATURES TO BE REMOVED IN DEMOLITION

① — DEMOLITION KEYNOTE

**HATCH LEGEND**

- APPROXIMATE LOCATION OF EXISTING SEPTIC SYSTEM TO BE REMOVED.
- FORMER LOCATION OF OLD CHURCH ADDITION. REMOVE SECTIONS OF GRADE BEAMS AND PIERS THAT MAY REMAIN IN PLACE AS REQUIRED FOR NEW CONSTRUCTION. PIERS TO BE BROKEN OFF BELOW EXCAVATION DEPTH RECOMMENDED BY GEOTECH REPORT.

**DEMOLITION NOTES:**

1. ALL ACTIVE SITE UTILITIES DISTURBED DURING SITE EXCAVATION AND CONSTRUCTION SHALL BE PATCHED AND REPAIRED BY CONTRACTOR IN ORDER TO MAINTAIN SERVICE TO OTHER BUILDING ON SITE.
2. CONTRACTOR TO PROVIDE PROTECTION FOR ALL EXISTING SITE MONUMENTS, GROTTOES, AND STATIONS OF THE CROSS. ANY DAMAGE TO EXISTING SITE STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.

**DEMOLITION KEYNOTES**

#	Description
1	EXISTING STATION TO BE RELOCATED BY OWNER.
2	APPROXIMATE LOCATION OF OLD SEPTIC SYSTEM. CONTRACTOR TO REMOVE AS REQUIRED FOR NEW CONSTRUCTION.
3	EXISTING FOUNDATION FOR OLD TOWER. CONTRACTOR TO REMOVE AS REQUIRED FOR NEW CONSTRUCTION. PIERS TO BE BROKEN OFF BELOW EXCAVATION DEPTH RECOMMENDED BY GEOTECH REPORT.
4	APPROXIMATE LOCATION OF EXISTING PIERS FROM OLD CHURCH. PIERS TO BE BROKEN OFF BELOW EXCAVATION DEPTH RECOMMENDED BY GEOTECH REPORT.
5	EXISTING PAVERS HAVE BEEN REMOVED BY OWNER. CONTRACTOR TO REMOVE ANY ADDITIONAL PAVERS OR CONCRETE RETAINERS AS REQUIRED FOR INSTALLATION OF NEW PAVERS.
6	RESTRIP PARKING AS INDICATED ON CIVIL PAVING PLANS.
7	REMOVE EXISTING BOLLARDS. SALVAGE AND RETAIN FOR OWNER.
10	APPROXIMATE LOCATION OF OLD SEPTIC SYSTEM. CONTRACTOR TO REMOVE ENTIRE SYSTEM AND ALL ASSOCIATED PIPING AND CONDUITS.
11	REMOVE EXISTING CONCRETE FLATWORK AS REQUIRED FOR NEW CONSTRUCTION.
12	REMOVE EXISTING CONCRETE CANOPY FOOTINGS.



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

Final Plans for Bidding and Construction



**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
**DIocese of Victoria**  
 HOUSTON, TX  
©2025 BRADLEY WADE KOCUREK & ASSOCIATES

DATE ISSUED:  
**07-02-2025**

PROJECT NUMBER:  
1024-0623

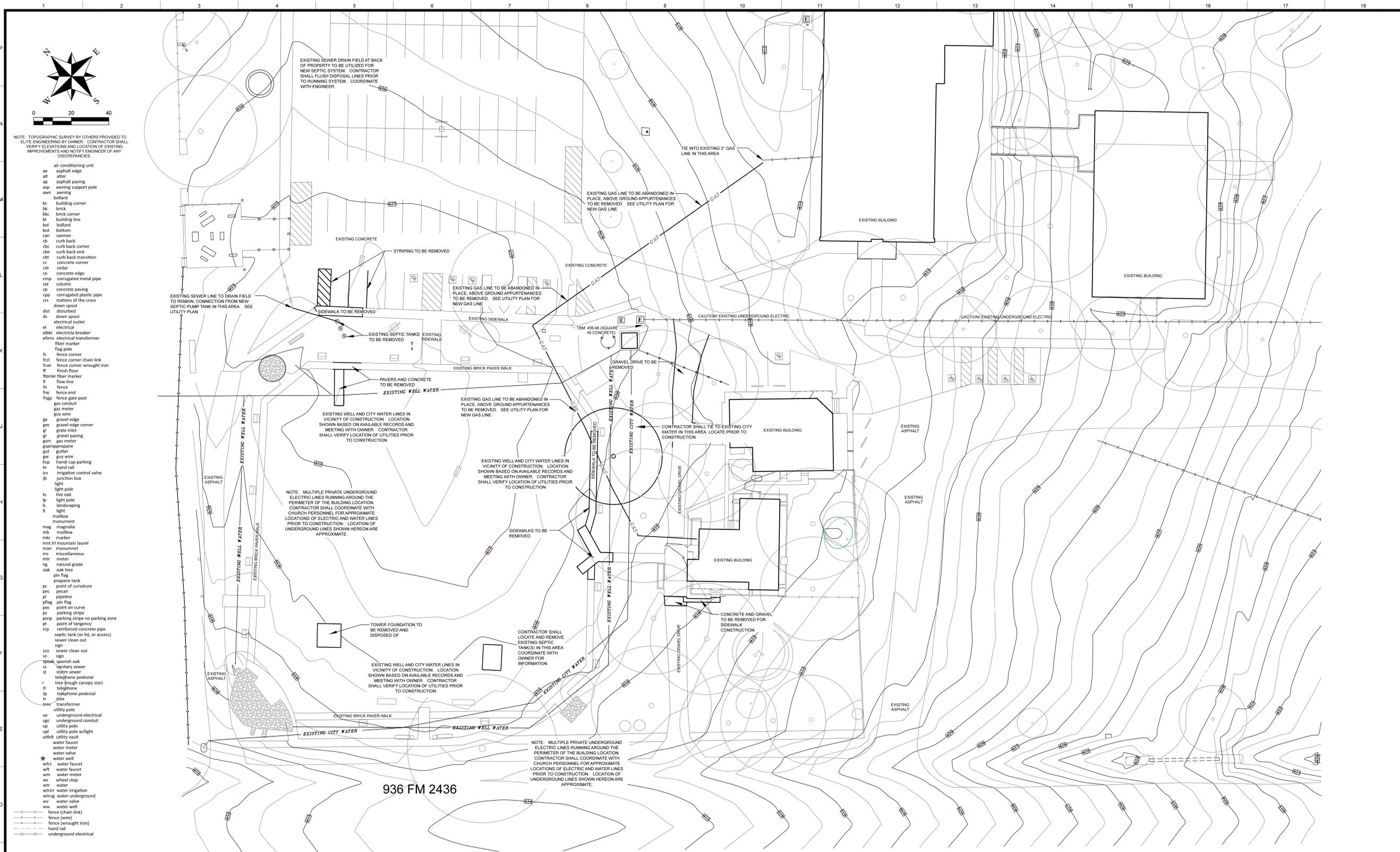
PLAN NORTH TRUE NORTH   
 SHEET NAME  
**ARCHITECTURAL DEMOLITION SITE PLAN**

SHEET NUMBER

**G3.2**

7/2/2025 11:17:35 AM  
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**A1** ARCHITECTURAL DEMOLITION SITE PLAN  
3/32" = 1'-0"



NOTE: TOPOGRAPHIC SURVEY BY OTHERS PROVIDED TO ELITE ENGINEERING BY OWNER. CONTRACTOR SHALL VERIFY ELEVATIONS AND LOCATION OF EXISTING IMPROVEMENTS AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

- air conditioning unit
- ae asphalt edge
- alt alter
- ap asphalt paving
- asp awning support pole
- awn awning
- bollard
- bc building corner
- bk brick corner
- blc brick corner
- bl building line
- bol bollard
- bot bottom
- can cannon
- cb curb back
- cbc curb back corner
- cbe curb back end
- cbr curb back transition
- cc concrete corner
- ced cedar
- ce concrete edge
- cmp corrugated metal pipe
- col column
- cp concrete paving
- cip corrugated plastic pipe
- crs stations of the cross
- down spout
- dist disturbed
- ds down spout
- el electrical outlet
- elbr electrical breaker
- eltrms electrical transformer
- flm fiber marker
- flg flag pole
- fc fence corner
- fccl fence corner chain link
- fcwl fence corner wrought iron
- ff finish floor
- flmbrk fiber marker
- fl flow line
- fn fence
- fnr fence end
- fnpp fence gate post
- gsm gas meter
- gv gvy wire
- ge gravel edge
- gec gravel edge corner
- gr grate inlet
- gp gravel paving
- gsm gas meter
- gsproprapne gutter
- gvt gutter
- gwr gwy wire
- hcap hand cap parking
- hr hand rail
- icv irrigation control valve
- jb junction box
- light
- lo live oak
- lp light pole
- ls landscaping
- lt light
- mb mailbox
- mon monument
- mag magnolia
- mbl mailbox
- mkr marker
- mlt mt mountain laurel
- mon monumnet
- ms miscellaneous
- mtr meter
- ng natural grade
- oak tree
- pin flag
- propane tank
- pc point of curvature
- pec pecan
- pl pipeline
- plag pin flag
- ppc point on curve
- ps parking stripe
- prnp parking stripe no parking zone
- pt point of tangency
- rcp reinforced concrete pipe
- septic tank (or lid, or access)
- sewer clean out
- sign
- so sewer clean out
- so sign
- soak spanish oak
- ss sanitary sewer
- st storm sewer
- telephone pedestal
- tree (rough canopy size)
- tl telephone
- tp telephone pedestal
- tr transformer
- trns transformer
- ue utility pole
- ueg underground electrical
- ugc underground conduit
- up utility pole
- upl utility pole w/light
- uv utility vault
- water faucet
- water meter
- water valve
- water well
- wfct water faucet
- wft water faucet
- wm water meter
- ws wheel stop
- wtr water
- wtrir water irrigation
- wtrug water underground
- ww water well
- fence (chain link)
- fence (wire)
- fence (wrought iron)
- hand rail
- underground electrical

- GENERAL NOTES:
1. THE CONTRACTOR IS REQUIRED TO NOTIFY ONE CALL AT 1-800-245-4545 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
  2. PRIOR TO BEGINNING CONSTRUCTION CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER (MINIMUM 72 HRS NOTICE).
  3. THE CONTRACTOR SHALL NOTIFY TESTING LAB 48 HOURS PRIOR TO REQUIRED TESTING ACTIVITIES.
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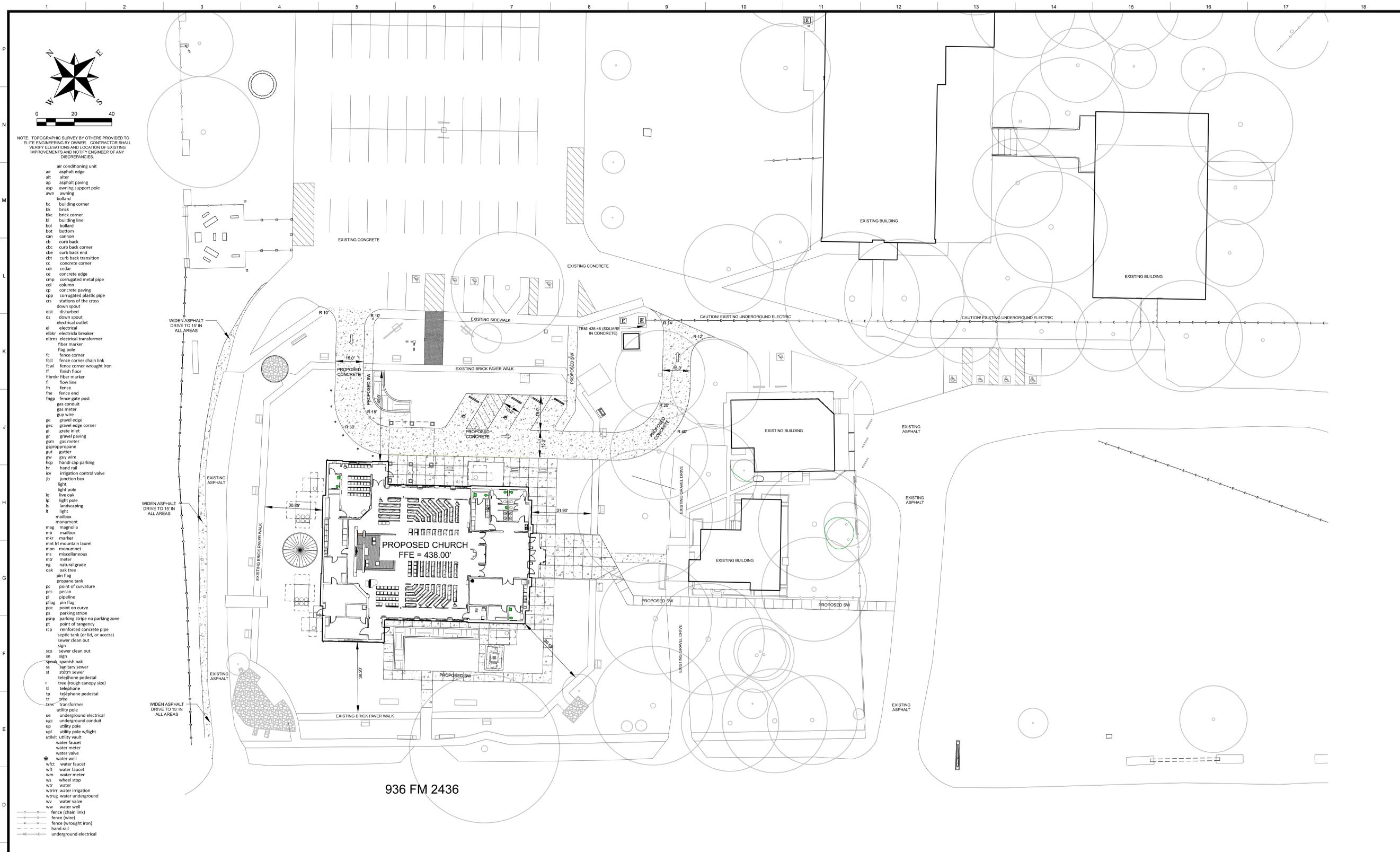
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1501 N. DE LEON STREET  
VICTORIA, TEXAS  
361-433-4988

100% CD  
FIRM# 15371



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- bot bottom
- can cannon
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- cbc curb back corner
- cbe curb back end
- cbt curb back transition
- cc concrete corner
- cd cedar
- ce concrete edge
- cmp corrugated metal pipe
- col column
- cp concrete paving
- csp corrugated plastic pipe
- crs stations of the cross
- ds down spout
- dist disturbed
- ds down spout
- el electrical outlet
- elbr electrical breaker
- eltrms electrical transformer
- fm fiber marker
- fp flag pole
- fc fence corner
- fccl fence corner chain link
- fcwi fence corner wrought iron
- ff finish floor
- fbmbrk fiber marker
- fl flow line
- fn fence
- fne fence end
- fnpg fence gate post
- gc gas conduit
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- gvw gwy wire
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- gsprpograpie gutter
- gvt gutter
- gwy gwy wire
- hsp hand cap parking
- hr hand rail
- kw irrigation control valve
- jb junction box
- light light pole
- lo live oak
- lp light pole
- ls landscaping
- lt light
- mb mailbox
- mag magnolia
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- mkr marker
- mlt lf mountain laurel
- mon monument
- ms miscellaneous
- mtr meter
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- oak oak tree
- pin flag
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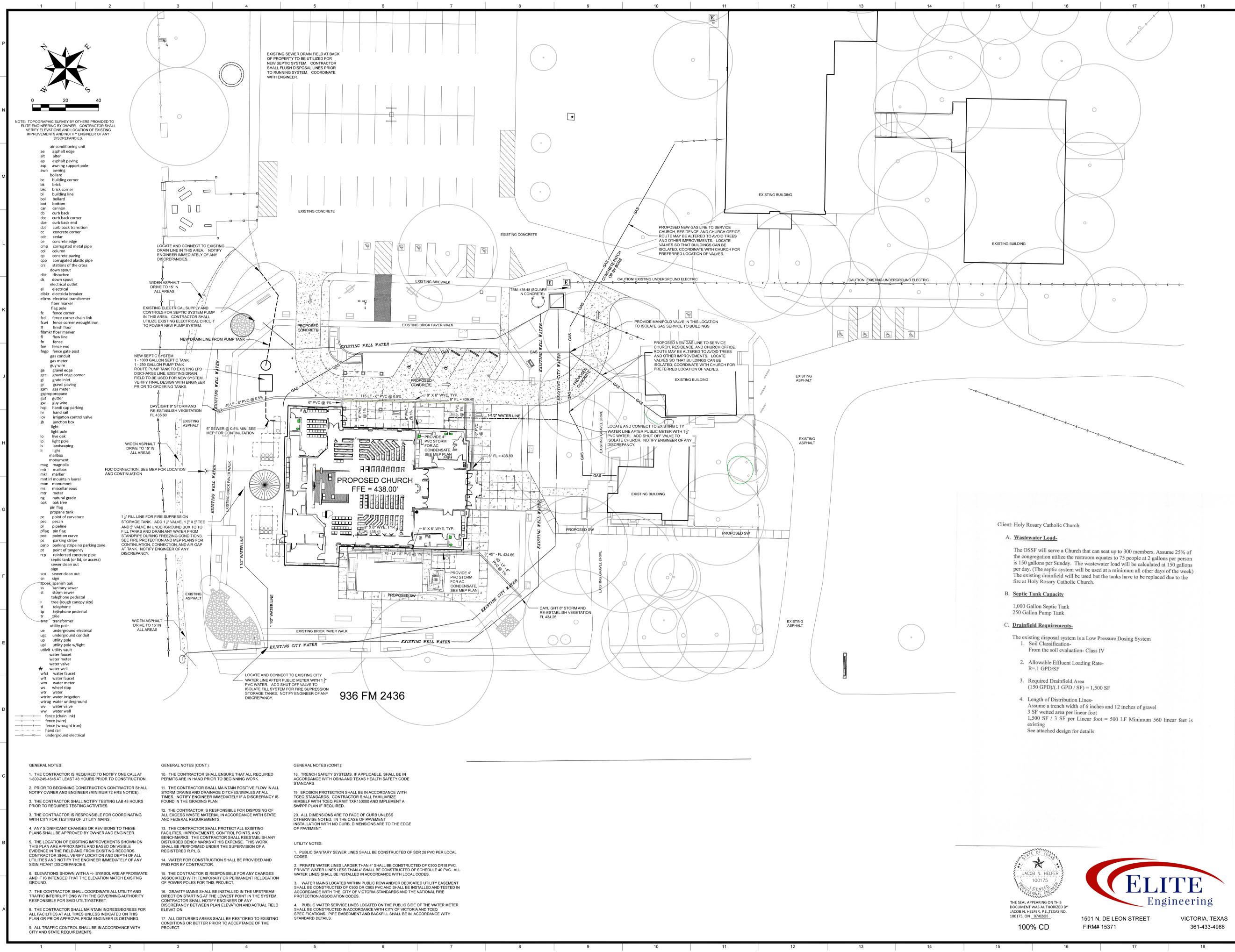
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- UTILITY NOTES:
- PUBLIC SANITARY SEWER LINES SHALL BE CONSTRUCTED OF SDR 26 PVC PER LOCAL CODES.
  - PRIVATE WATER LINES LARGER THAN 4" SHALL BE CONSTRUCTED OF C900 DR18 PVC. PRIVATE WATER LINES LESS THAN 4" SHALL BE CONSTRUCTED OF SCHEDULE 40 PVC. ALL WATER LINES SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES.
  - WATER MAINS LOCATED WITHIN PUBLIC ROW AND/OR DEDICATED UTILITY EASEMENT SHALL BE CONSTRUCTED OF C900 OR C905 PVC AND SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH THE CITY OF VICTORIA STANDARDS AND THE NATIONAL FIRE PROTECTION ASSOCIATION CODES.
  - PUBLIC WATER SERVICE LINES LOCATED ON THE PUBLIC SIDE OF THE WATER METER SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF VICTORIA AND TCEQ SPECIFICATIONS. PIPE EMBEDMENT AND BACKFILL SHALL BE IN ACCORDANCE WITH STANDARD DETAILS.

Client: Holy Rosary Catholic Church

**A. Wastewater Load:**

The OSSF will serve a Church that can seat up to 300 members. Assume 25% of the congregation utilize the restroom equates to 75 people at 2 gallons per person is 150 gallons per Sunday. The wastewater load will be calculated at 150 gallons per day. (The septic system will be used at a minimum all other days of the week) The existing drainfield will be used but the tanks have to be replaced due to the fire at Holy Rosary Catholic Church.

**B. Septic Tank Capacity**

1,000 Gallon Septic Tank  
250 Gallon Pump Tank

**C. Drainfield Requirements:**

The existing disposal system is a Low Pressure Dosing System

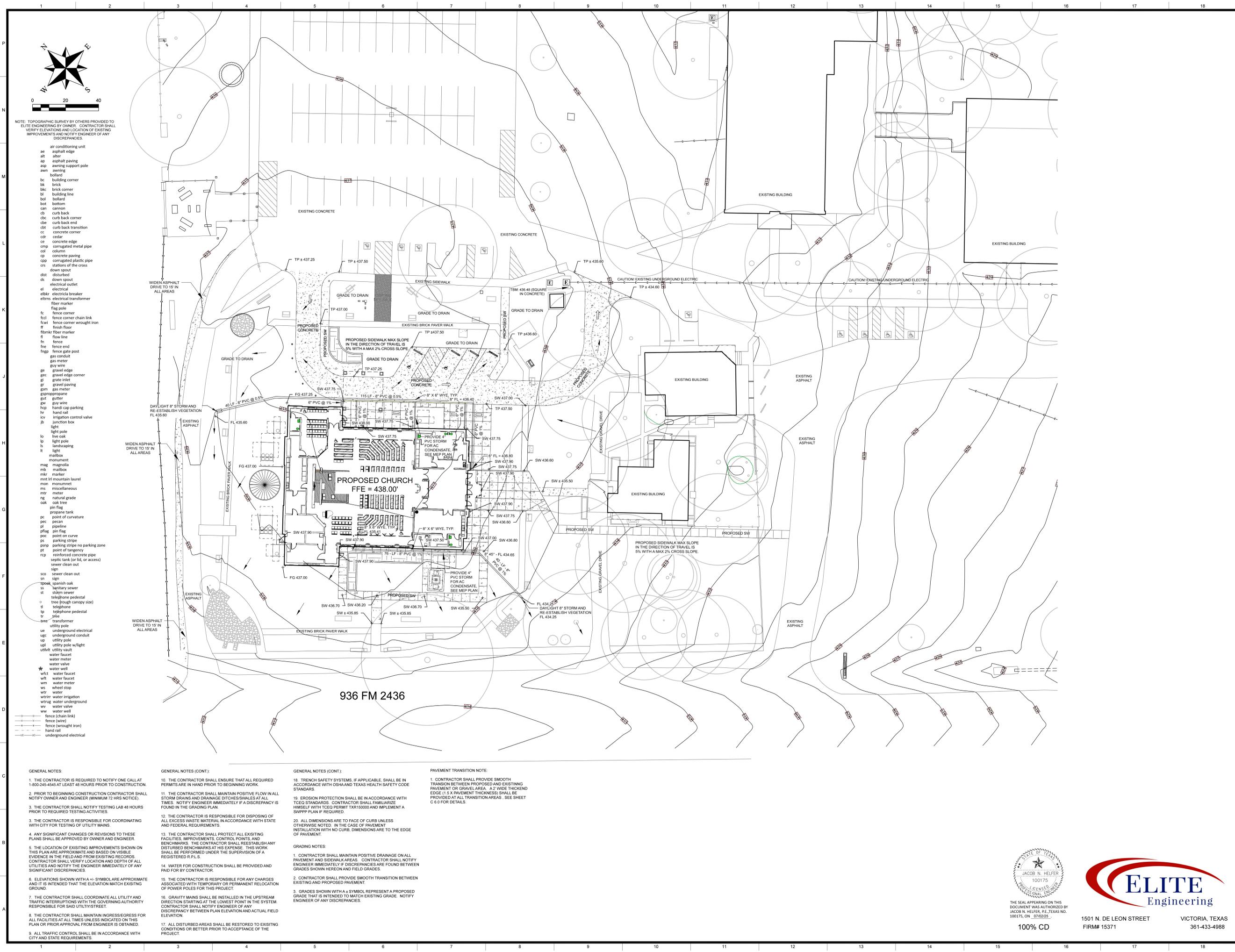
- Soil Classification- From the soil evaluation- Class IV
- Allowable Effluent Loading Rate- R= 1 GPD/SF
- Required Drainfield Area (150 GPD)/(1 GPD / SF) = 1,500 SF
- Length of Distribution Lines- Assume a trench width of 6 inches and 12 inches of gravel 3 SF wetted area per linear foot 1,500 SF / 3 SF per Linear foot = 500 LF Minimum 560 linear feet is existing See attached design for details



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JACOB N. HELFER, P.E., TEXAS NO. 100175, ON 07/02/25.

1501 N. DE LEON STREET VICTORIA, TEXAS 77901  
FIRM# 15371 361-433-4988

100% CD



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jb junction box
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mnt mt mountain laurel
mon monumnet
ms miscellaneous
mtr meter
ng natural grade
oak oak tree
pin pin flag
pt propane tank
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pec pecan
pl pipeline
pflag pin flag
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rcp reinforced concrete pipe
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st sign
st oak spanish oak
ss sanitary sewer
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telephone telephone
tree tree (rough canopy size)
tel telephone
tp telephone pedestal
tr tree
trns transformer
ut utility pole
ue underground electrical
ugc underground conduit
up utility pole
upl utility pole w/light
utvl utility vault
wfa water faucet
wme water meter
wv water valve
wft water faucet
wfr water faucet
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7. THE CONTRACTOR SHALL COORDINATE ALL UTILITY AND TRAFFIC INTERRUPTIONS WITH THE GOVERNING AUTHORITY RESPONSIBLE FOR SAID UTILITY STREET.
8. THE CONTRACTOR SHALL MAINTAIN INGRESS/EGRESS FOR ALL FACILITIES AT ALL TIMES UNLESS INDICATED ON THIS PLAN OR PRIOR APPROVAL FROM ENGINEER IS OBTAINED.
9. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH CITY AND STATE REQUIREMENTS.

GENERAL NOTES (CONT.):
10. THE CONTRACTOR SHALL ENSURE THAT ALL REQUIRED PERMITS ARE IN HAND PRIOR TO BEGINNING WORK.
11. THE CONTRACTOR SHALL MAINTAIN POSITIVE FLOW IN ALL STORM DRAINS AND DRAINAGE DITCHES/SWALES AT ALL TIMES. NOTIFY ENGINEER IMMEDIATELY IF A DISCREPANCY IS FOUND IN THE GRADING PLAN.
12. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF ALL EXCESS WASTE MATERIAL IN ACCORDANCE WITH STATE AND FEDERAL REQUIREMENTS.
13. THE CONTRACTOR SHALL PROTECT ALL EXISTING FACILITIES, IMPROVEMENTS, CONTROL POINTS, AND BENCHMARKS. THE CONTRACTOR SHALL REESTABLISH ANY DISTURBED BENCHMARKS AT HIS EXPENSE. THIS WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A REGISTERED R.P.L.S.
14. WATER FOR CONSTRUCTION SHALL BE PROVIDED AND PAID FOR BY CONTRACTOR.
15. THE CONTRACTOR IS RESPONSIBLE FOR ANY CHARGES ASSOCIATED WITH TEMPORARY OR PERMANENT RELOCATION OF POWER POLES FOR THIS PROJECT.
16. GRAVITY MAINS SHALL BE INSTALLED IN THE UPSTREAM DIRECTION STARTING AT THE LOWEST POINT IN THE SYSTEM. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCY BETWEEN PLAN ELEVATION AND ACTUAL FIELD ELEVATION.
17. ALL DISTURBED AREAS SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER PRIOR TO ACCEPTANCE OF THE PROJECT.

GENERAL NOTES (CONT.):
18. TRENCH SAFETY SYSTEMS, IF APPLICABLE, SHALL BE IN ACCORDANCE WITH OSHA AND TEXAS HEALTH SAFETY CODE STANDARDS.
19. EROSION PROTECTION SHALL BE IN ACCORDANCE WITH TCEQ STANDARDS. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH TCEQ PERMIT TXR150000 AND IMPLEMENT A SWPPP PLAN IF REQUIRED.
20. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED. IN THE CASE OF PAVEMENT INSTALLATION WITH NO CURB, DIMENSIONS ARE TO THE EDGE OF PAVEMENT.

PAVEMENT TRANSITION NOTE:
1. CONTRACTOR SHALL PROVIDE SMOOTH TRANSITION BETWEEN PROPOSED AND EXISTING PAVEMENT OR GRAVEL AREA. A 2" WIDE THICKEND EDGE (1.5 X PAVEMENT THICKNESS) SHALL BE PROVIDED AT ALL TRANSITION AREAS. SEE SHEET C-5.0 FOR DETAILS.

GRADING NOTES:
1. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE ON ALL PAVEMENT AND SIDEWALK AREAS. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES ARE FOUND BETWEEN GRADES SHOWN HEREON AND FIELD GRADES.
2. CONTRACTOR SHALL PROVIDE SMOOTH TRANSITION BETWEEN EXISTING AND PROPOSED PAVEMENT.
3. GRADES SHOWN WITH A \* SYMBOL REPRESENT A PROPOSED GRADE THAT IS INTENDED TO MATCH EXISTING GRADE. NOTIFY ENGINEER OF ANY DISCREPANCIES.

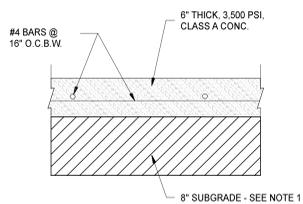


1501 N. DE LEON STREET VICTORIA, TEXAS 77901
FIRM# 15371 361-433-9988

100% CD

GENERAL NOTES:

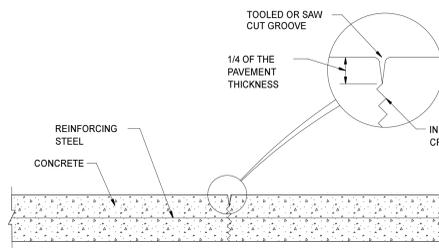
- SUBGRADE SHALL CONSIST OF 8" TYPE A GRADE 1 OR 2 LIMESTONE BASE PER TXDOT SPECS COMPACTED TO 95% STD. PROCTOR.
- PAVEMENT DESIGN WAS COMPLETED WITHOUT THE BENEFIT OF A GEOTECH REPORT.



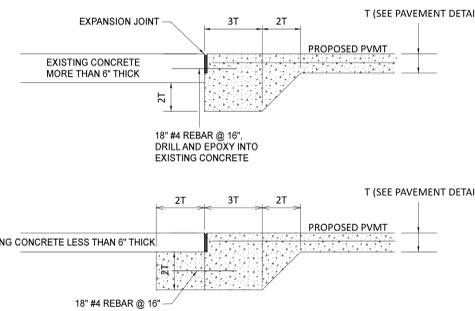
CONCRETE PAVEMENT

GENERAL NOTES:

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



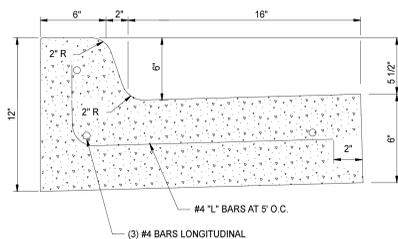
TOOLED CONTRACTION JOINT



CONCRETE CONNECTION

GENERAL NOTES:

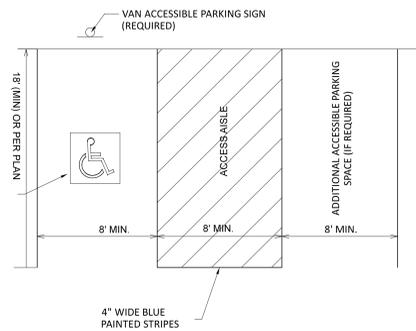
- CURB SHALL BE POURED MONOLITHIC WITH ADJACENT PAVEMENT.
- CONCRETE FOR CURB SHALL BE SAME AS PAVEMENT SPEC.



MONOLITHIC CURB

GENERAL NOTES:

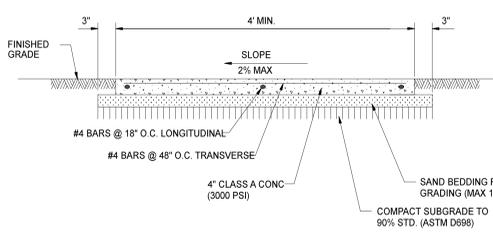
- MAXIMUM SLOPE IN ANY DIRECTION (INCLUDING DIAGONAL) SHALL NOT EXCEED 2%.
- THE ACCESSIBLE ROUTE SHALL CONFORM TO ITEM 4.3 OF TEXAS ACCESSIBILITY STANDARDS. RUNNING SLOPES SHALL NOT EXCEED 5% AND CROSS SLOPES SHALL NOT EXCEED 2%.



ACCESSIBLE PARKING SPACE

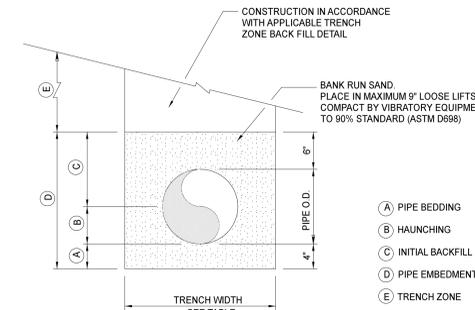
GENERAL NOTES:

- SIDEWALK SHALL MEET ALL ADA RULES. CROSS-SLOPE SHALL NOT EXCEED 2% AND LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.
- TOOLED CONTRACTION JOINTS SHALL BE LOCATED AT INTERVALS EQUAL TO SIDEWALK WIDTH.



CONCRETE SIDEWALK

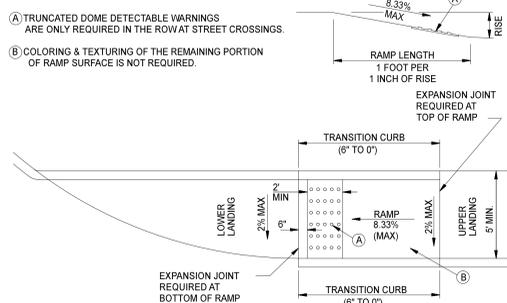
NOMINAL PIPE SIZE (INCHES)	MINIMUM TRENCH WIDTH (INCHES)	MAXIMUM TRENCH WIDTH (INCHES)
Less than 24"	O.D. + 12"	O.D. + 36"
24" to 30"	O.D. + 18"	O.D. + 42"
Greater than 30"	O.D. + 24"	O.D. + 48"



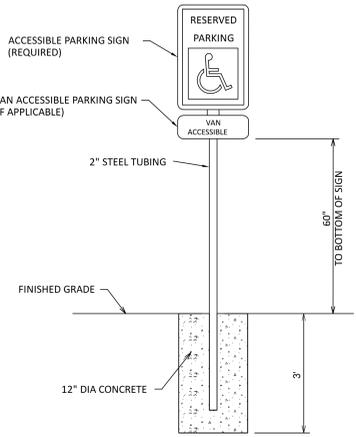
UTILITY LINE EMBEDMENT

GENERAL NOTES:

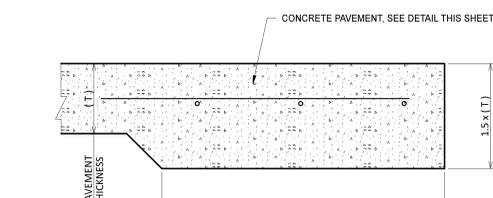
- MAXIMUM LONGITUDINAL SLOPE FOR THE UPPER AND LOWER LANDING SHALL BE 1:20 (5%)
- MAXIMUM LONGITUDINAL SLOPE FOR THE RAMP SHALL BE 1:12 (8.33%)
- MAXIMUM LONGITUDINAL SLOPE FOR THE ACCESSIBLE ROUTE SHALL BE 1:20 (5%)
- MAXIMUM CROSS SLOPE FOR THE LANDINGS, RAMP AND ACCESSIBLE ROUTE SHALL BE 1:50 (2%)
- NO GROOVING OF RAMPS.



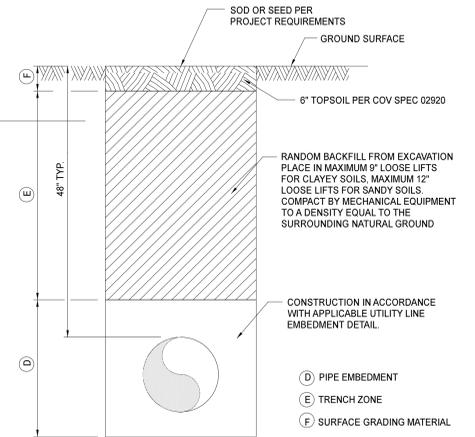
PERPENDICULAR CURB RAMP



ACCESSIBLE PARKING SIGNAGE



THICKENED EDGE



TRENCH BACKFILL (NON PAVED AREAS)



311 E. Constitution St., Ste 210  
Victoria, Texas 77901  
www.rmaarch.com

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

QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH  
DIOCESE OF VICTORIA  
HOUSTON, TX

DATE ISSUED:  
07/02/25 - 100% CD

PROJECT NUMBER:  
1024-0623



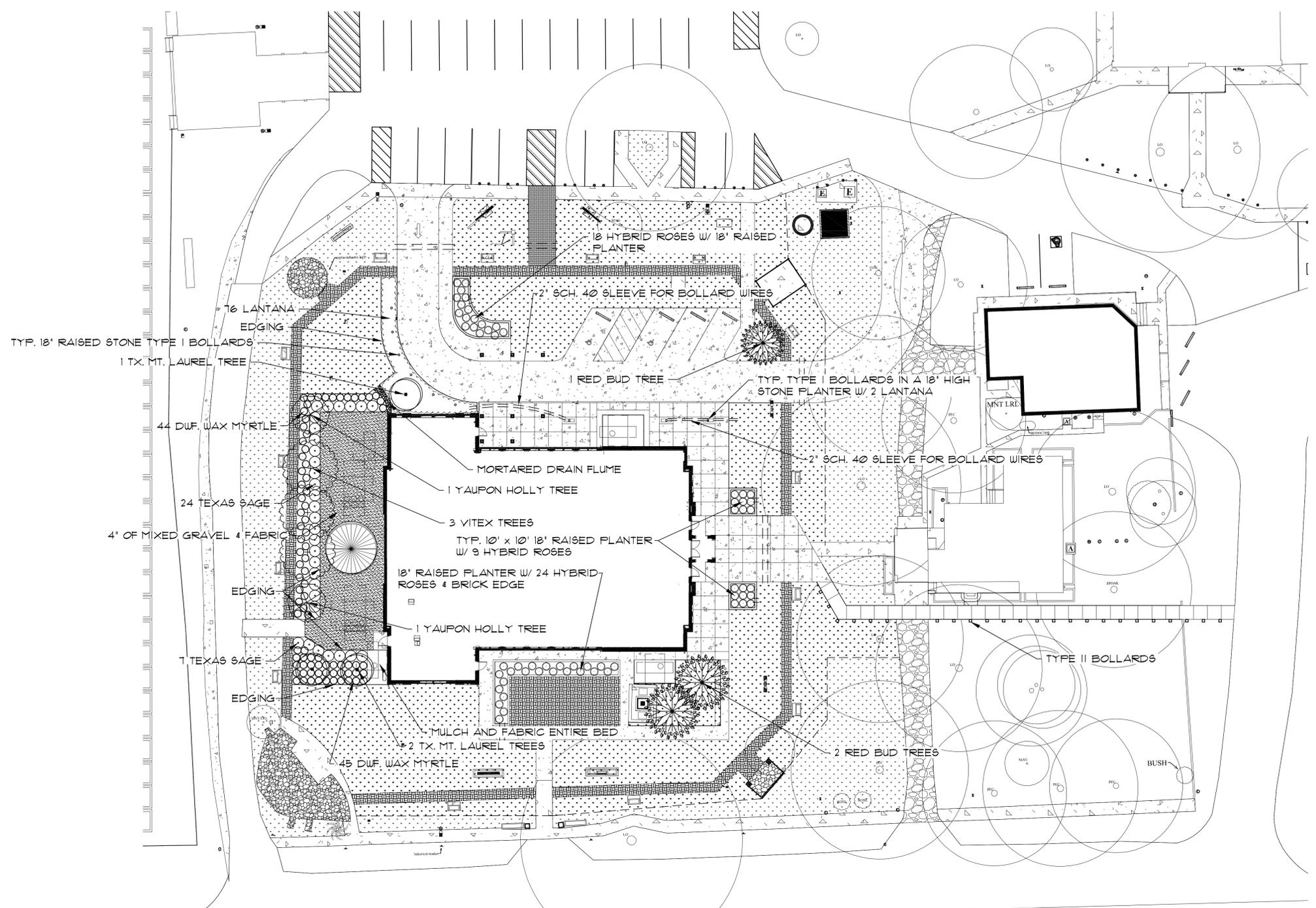
1501 N. DE LEON STREET  
VICTORIA, TEXAS  
FIRM# 15371 361-433-4988

PLAN NORTH TRUE NORTH  
SHEET NAME  
DETAILS  
SHEET NUMBER  
C 6.0



6/6/25

Final Plans for Bidding and Construction



**LANDSCAPE PLAN**  
 SCALE: 1" = 20'-0"

**LEGEND**

- |  |                   |  |  |
|--|-------------------|--|--|
|  | SOLID BERMUDA SOD |  | SEE CIVIL PLANS  |
|  | EXISTING LAWN     |  | 4" OF 1/2" MIXED RIVER ROCK/GRAVEL WITH LANDSCAPE FABRIC |
|  | EXISTING PAVERS   |  | EXISTING TREES   |
|  | NEW PAVERS        |  | 9PJ-PCL-QR-1ALB BOLLARD-TYPE II                          |
|  |                   |  | FOREVER BRIGHT 9FJ51-20 BOLLARD-TYPE I                   |

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**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
 DIOCESE OF VICTORIA  
 HOUSTON, TX

DATE ISSUED:  
**07-02-2025**

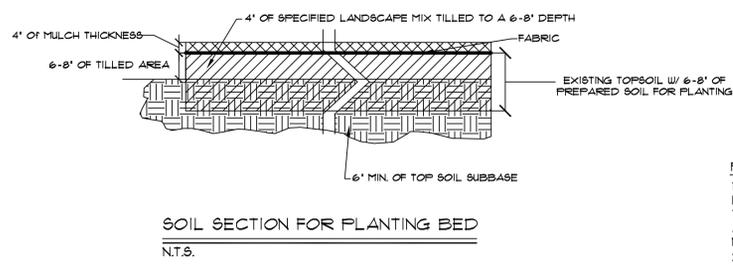
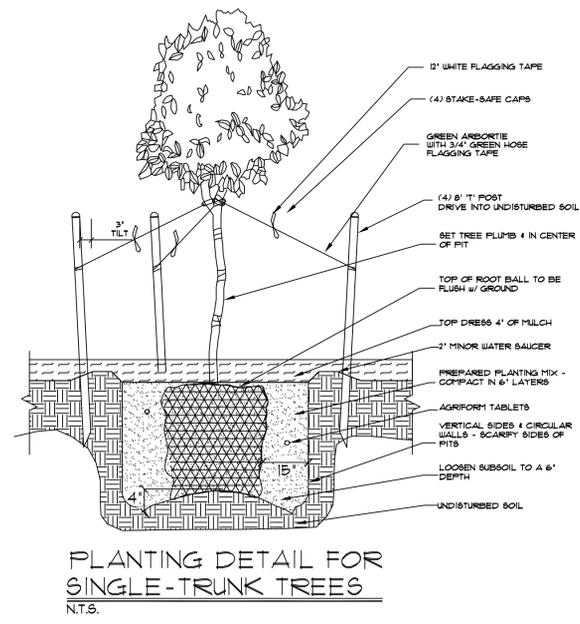
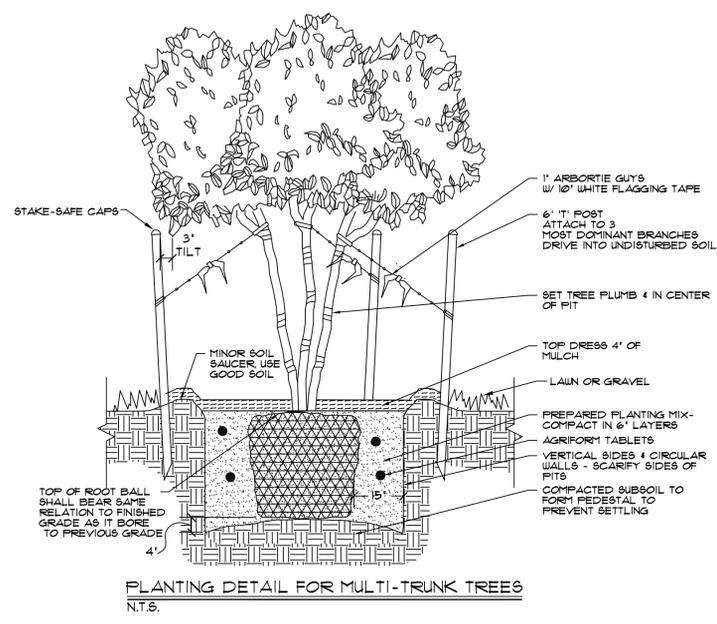
PROJECT NUMBER:  
 1024-0623

PLAN NORTH TRUE NORTH  
 SHEET NAME  
**LANDSCAPE PLAN**  
 SHEET NUMBER

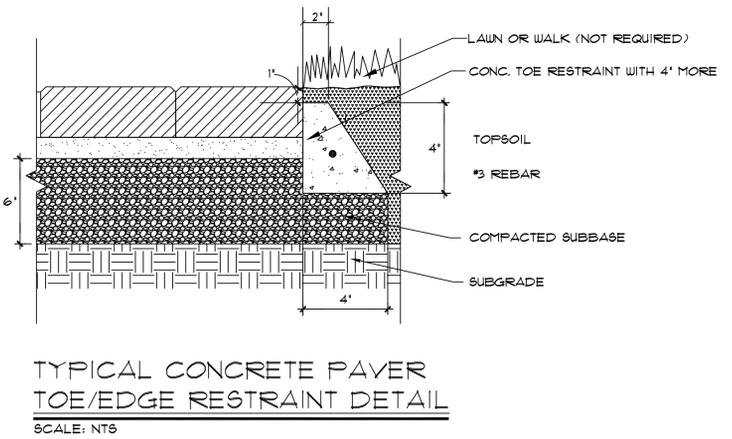
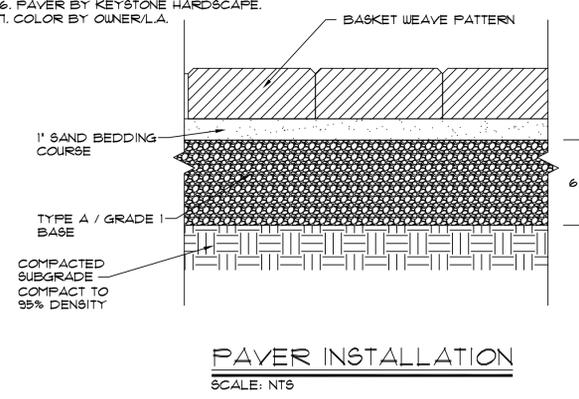
**L1.0**



- LANDSCAPE NOTES :**
- CONTRACTOR SHALL EXAMINE THE SITE & FAMILIARIZE HIMSELF w/ ALL CONDITIONS PERTINENT TO THIS WORK.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR w/ ALL UNDERGROUND UTILITIES, PIPES & LINE RUNS. CONTRACTOR SHALL LOCATE & ESTABLISH ALL EXISTING UTILITIES IN THE CONSTRUCTION AREA BEFORE ANY EXCAVATION SHALL OCCUR.
  - LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH IRRIGATION AND SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH ALL LANDSCAPE OPERATIONS.
  - CONTRACTOR IS RESPONSIBLE FOR ALL FINE & FINISHED GRADING. ALL ROUGH & SOIL WORK IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR INSTALLER SHALL PROVIDE PROPER & POSITIVE DRAINAGE IN ALL LAWN & PLANTING BEDS. COORDINATE SITE WORK w/ G.C.
  - ALL TREES & SHRUBS SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR.
  - PREPARE ALL PLANTING BEDS BY TILLING 4" OF SPECIFIED PLANTING MIX 1/2 COMPOST, 1/2 BARK MULCH, & 1/2 TOPSOIL TO A TOTAL DEPTH OF 8". CONTRACTOR MAY BACKFILL ALL BEDS WITH 6" OF PLANTING MIX IN LIEU OF SITE TILLING COORDINATE w/ SITE CONTRACTOR.
  - TOP DRESS ALL BEDS w/ 4" OF HARDWOOD OR MIXED GRAVEL/RIVER ROCK 6"-8" OF 3/4-1 1/2" IN SIZE. TREES NOT IN A FORMAL BED SHALL BE TOP DRESSED WITH 4" OF MULCH.
  - BACKFILL MATERIALS FOR ALL TREES SHALL BE IN THE FOLLOWING PROPORTIONS : TREE - 2/3 NEW TOP SOIL & 1/3 PEAT HUMUS/COMPOST PLACE "AGRIFORM" TABLETS IN ALL BACKFILL MIX
  - STAKE & GUY ALL TREES w/ (3) 6" T' POSTS. FLAG ALL GUY ARBORTIE.
  - SOIL SCHEDULE TO BE 4" TOPSOIL OR EXISTING SOIL FOR ALL LAWN AREAS & 12" OF TOPSOIL WITH A PLANTING MIX COMBINATION. CONTRACTOR TO MATCH ALL NEW GRADES & ELEVATIONS WITH TOPSOIL.
  - FINISHED SOIL LEVEL AFTER BED PREPARATION TO BE 4" BELOW TOP OF WALK OR CURB OR FLATWORK.
  - EDGING TO BE A 1" x 4" BROWN STEEL EDGE. INSTALL AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  - ALL REQUIRED LANDSCAPING WILL BE MAINTAINED IN A NEAT AND ORDERLY MANNER AT ALL TIMES UNTIL FINAL ACCEPTANCE FROM OWNER. THIS WILL INCLUDE MOWING, EDGING, PRUNING, FERTILIZING, WATERING, WEEDING, AND OTHER ACTIVITIES COMMON TO THE MAINTENANCE OF LANDSCAPING. LANDSCAPE AREAS WILL BE KEPT FREE OF TRASH, LITTER, WEEDS, AND OTHER MATERIAL NOT A PART OF THE LANDSCAPING. PROVIDE OWNER WITH A TYPE-WRITTEN MAINTENANCE PROGRAM FOR A CONTINUOUS ONE YEAR MAINTENANCE.
  - CONTRACTOR SHALL CHECK THE SOIL PH. PH SHOULD BE 6.5-7.0 PROVIDE 12" OF PREPARE SOIL WITH A APPROVED ROSE MIX. ENSURE PROPER DRAINAGE IN ALL ROSE BED AREAS.



- PAVER NOTES:**
- NO CHIPPED OR CRACKED BRICK UNITS SHALL BE INCORPORATED INTO THE WORK. WHERE BRICK UNITS MUST BE CUT, THEY SHALL BE SAW CUT TO PROVIDE SHARP, CLEAN EDGES. ANGLED CUTS AND GAFFS AT THE EDGES OF THE PAVEMENT WILL NOT BE ACCEPTABLE.
  - INSTALL HOLLAND STONE WITH JOINTS APPROXIMATELY 1/8" IN.
  - TAMP BRICK PAVERS WITH A PLATE COMPACTOR, UNIFORMLY LEVEL, TRUE TO GRADE AND FREE OF MOVEMENT. INSTALL TOE RESTRAINT ON ALL EDGES THE CONTACT TURF OR PLANTING BEDS.
  - SPREAD SAND TO 1/8" THICKNESS OVER ENTIRE PAVING AREA.
  - MAKE ONE MORE PASS WITH PLATE COMPACTOR TO FILL JOINTS WITH SAND.
  - PAVER BY KEYSTONE HARDSCAPE.
  - COLOR BY OWNER/LA.



PLANT LIST				
QTY.	NAME	SIZE	COMMENTS	SPACING
3	Texas Mt. Laurel Tree <i>Sophora secundiflora</i>	6'-1' Ht.	5' Sprd. Match, Multi. Trk. Specimen, 3 Trk. Max. 3" Caliper	As Shown
2	Yaupon Holly Tree <i>Ilex vomitoria</i>	1'-9" Ht.	Tree Form, 4 1/2' Sprd. Match Female	As Shown
16	Lantana 'Radiation' <i>Lantana camara</i>	1 Gallon	Rooted, 12' Sprd., Blooms	30' O.C.
82	Dwarf Wax Myrtle <i>Myrica cerifera pumila</i>	3 Gallon	Compact growth, 18" Ht., 15' Sprd.	3 1/2' O.C.
60	Hybrid Roses BY OWNER			
3	Red Bud Tree <i>Cercis canadensis</i>	45 Gallon	Sgl. Trk, 2 1/2' Caliper, 6'-1' Ht., Str. Trk, Match	As Shown
3	Vitex Tree <i>Vitex agnus castus</i>	30 Gallon	6'-1' Ht., Tree form	As Shown
31	Texas Sage <i>Leucophyllum frutescens</i>	3 Gallon	18" Ht., Not Leggy, Full	4' O.C.

Final Plans for Bidding and Construction

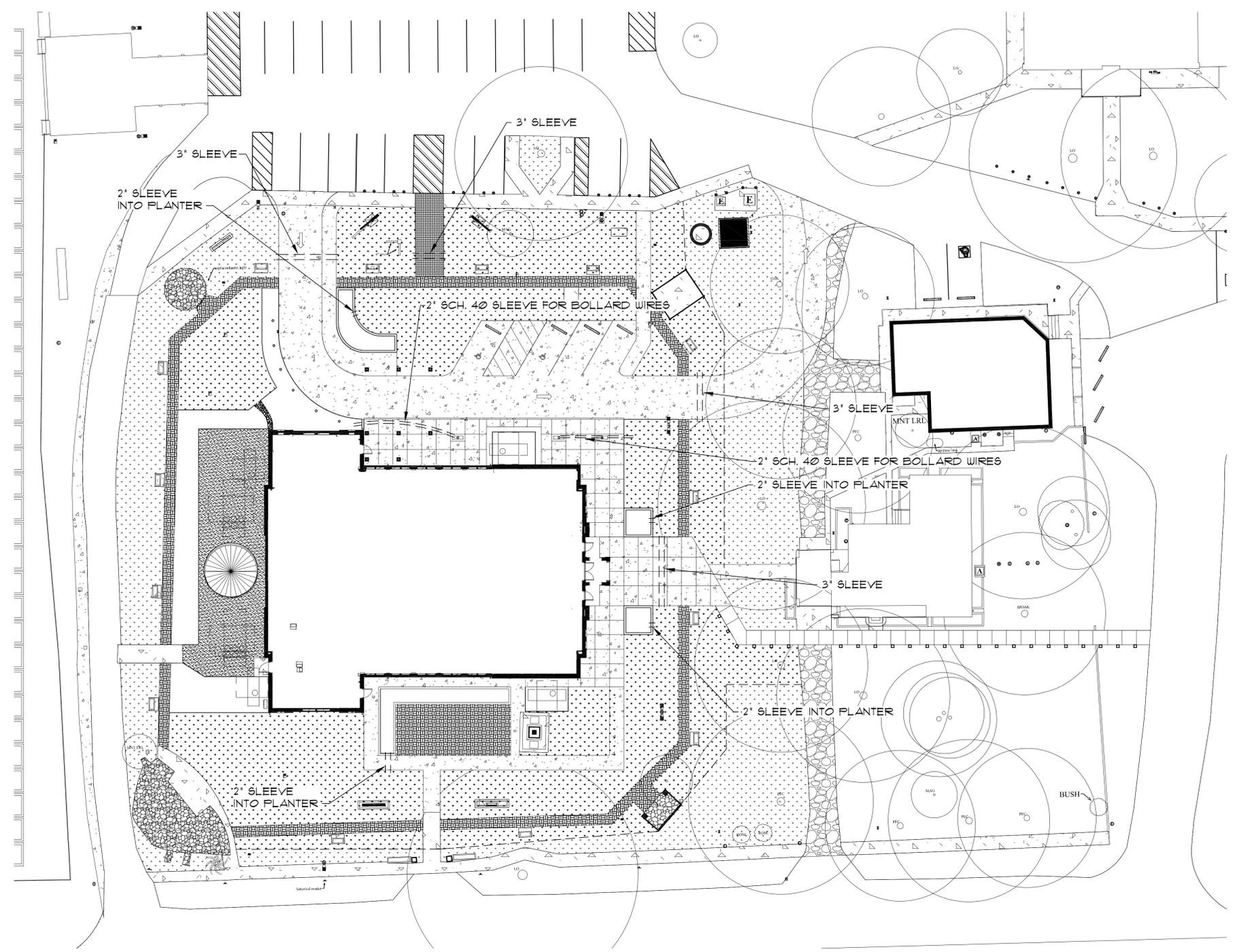
QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH  
 DIOCESE OF VICTORIA  
 HOUSTON, TX

DATE ISSUED:  
 07-02-2025

PROJECT NUMBER:  
 1024-0623

PLAN NORTH TRUE NORTH  
 SHEET NAME  
 LANDSCAPE NOTES & DETAILS PLAN  
 SHEET NUMBER

**L1.1**



**SLEEVING PLAN**  
SCALE: 1" = 20'-0"

**LEGEND**  
--- IRRIGATION SLEEVE SCH. 40, 2" x 3"

**NOTE:**  
TUNNEL UNDER ALL FLATWORK 6" OR LESS OR EXISTING WALK

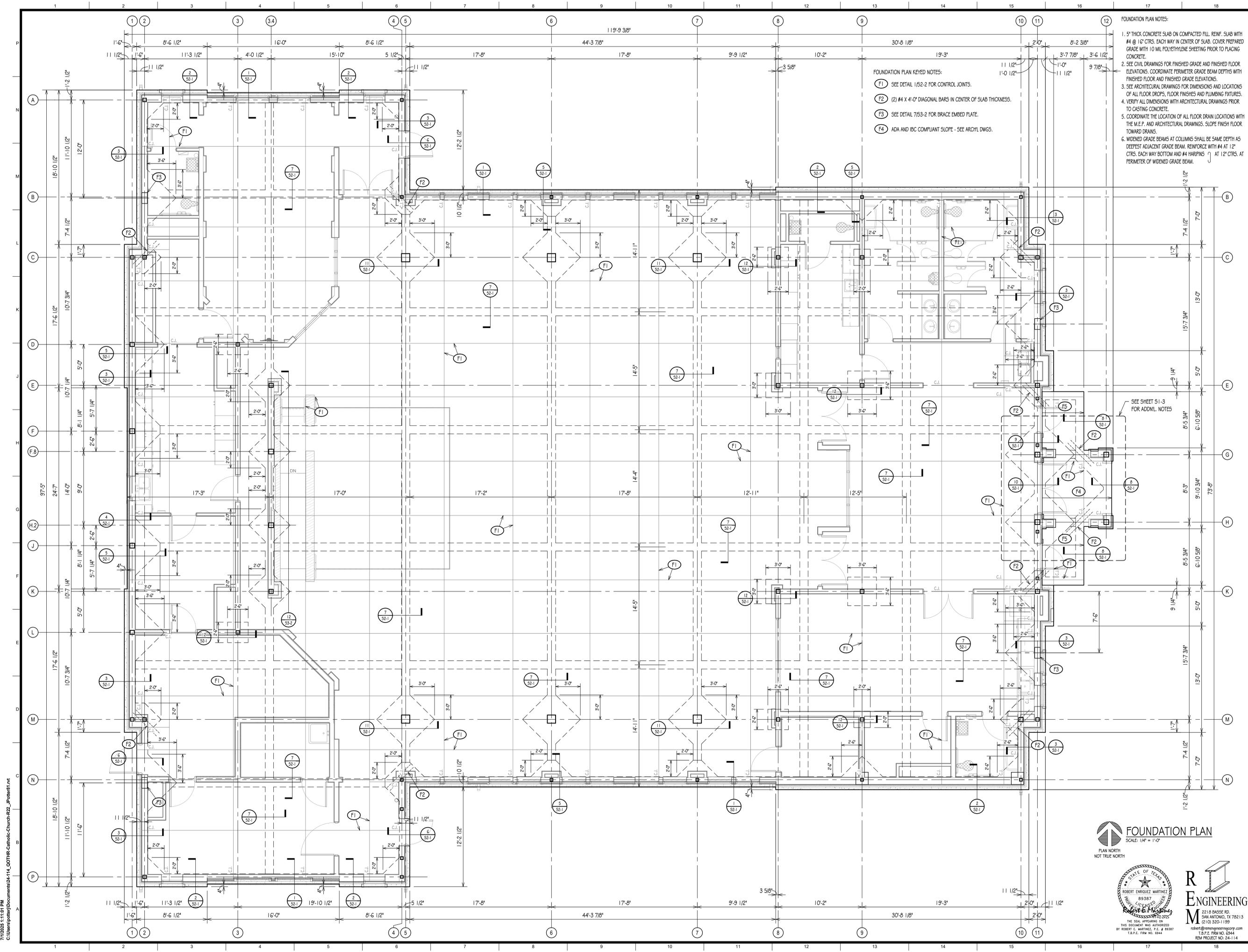
**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
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HOUSTON, TX

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PLAN NORTH TRUE NORTH  
SHEET NAME  
**SLEEVING PLAN**  
SHEET NUMBER

**L1.2**



- FOUNDATION PLAN NOTES:**
- 5" THICK CONCRETE SLAB ON COMPACTED FILL. REINF. SLAB WITH #4 @ 1' CTRS. EACH WAY IN CENTER OF SLAB. COVER PREPARED GRADE WITH 1.0 MIL POLYETHYLENE SHEETING PRIOR TO PLACING CONCRETE.
  - SEE CIVIL DRAWINGS FOR FINISHED GRADE AND FINISHED FLOOR ELEVATIONS. COORDINATE PERIMETER GRADE BEAM DEPTHS WITH FINISHED FLOOR AND FINISHED GRADE ELEVATIONS.
  - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND LOCATIONS OF ALL FLOOR DROPS, FLOOR FINISHES AND PLUMBING FIXTURES. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CASTING CONCRETE.
  - COORDINATE THE LOCATION OF ALL FLOOR DRAIN LOCATIONS WITH THE M.E.P. AND ARCHITECTURAL DRAWINGS. SLOPE FINISH FLOOR TOWARD DRAINS.
  - WIDENED GRADE BEAMS AT COLUMNS SHALL BE SAME DEPTH AS DEEPEST ADJACENT GRADE BEAM. REINFORCE WITH #4 AT 12" CTRS. EACH WAY BOTTOM AND #4 HARPINING @ 12" CTRS. AT PERIMETER OF WIDENED GRADE BEAM.

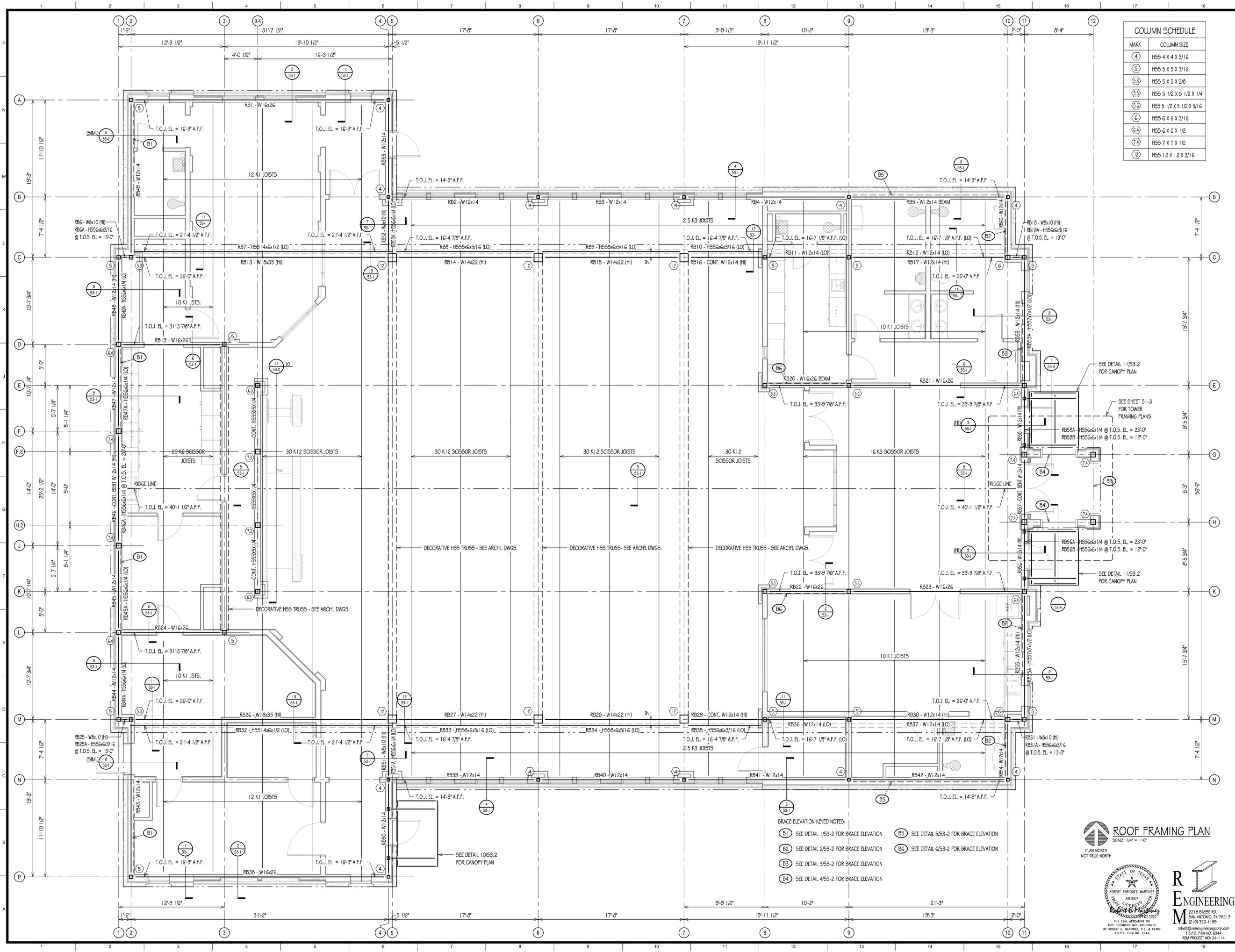
- FOUNDATION PLAN KEYED NOTES:**
- (F1) SEE DETAIL 1/52-2 FOR CONTROL JOINTS.
  - (F2) (2) #4 X 4'-0" DIAGONAL BARS IN CENTER OF SLAB THICKNESS.
  - (F3) SEE DETAIL 7/53-2 FOR BRACE EMBED PLATE.
  - (F4) ADA AND IBC COMPLIANT SLOPE - SEE ARCHL DWGS.

**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"  
PLAN NORTH  
NOT TRUE NORTH

**R ENGINEERING M**  
2218 BASSE RD.  
SAN ANTONIO, TX 78213  
(210) 323-1139  
robert@remenginc.com  
13 P.E. FIRM NO. 6944  
R.E.M. PROJECT NO. 24-114

STATE OF TEXAS  
ROBERT ENRIQUEZ MARTINEZ  
89387  
LICENSED PROFESSIONAL ENGINEER  
EXPIRES 02/2025  
THIS DOCUMENT WAS AUTHORIZED BY ROBERT E. MARTINEZ, P.E. # 89387  
13 P.E. FIRM NO. 6944

MARK	COLUMN SIZE
4	HSS 4 X 4 X 3/16
5	HSS 5 X 5 X 3/16
5.3	HSS 5 X 5 X 3/8
5.5	HSS 5 1/2 X 5 1/2 X 1/4
5.6	HSS 5 1/2 X 5 1/2 X 5/16
6	HSS 6 X 6 X 3/16
6.4	HSS 6 X 6 X 1/2
7.4	HSS 7 X 7 X 1/2
12	HSS 12 X 12 X 3/16

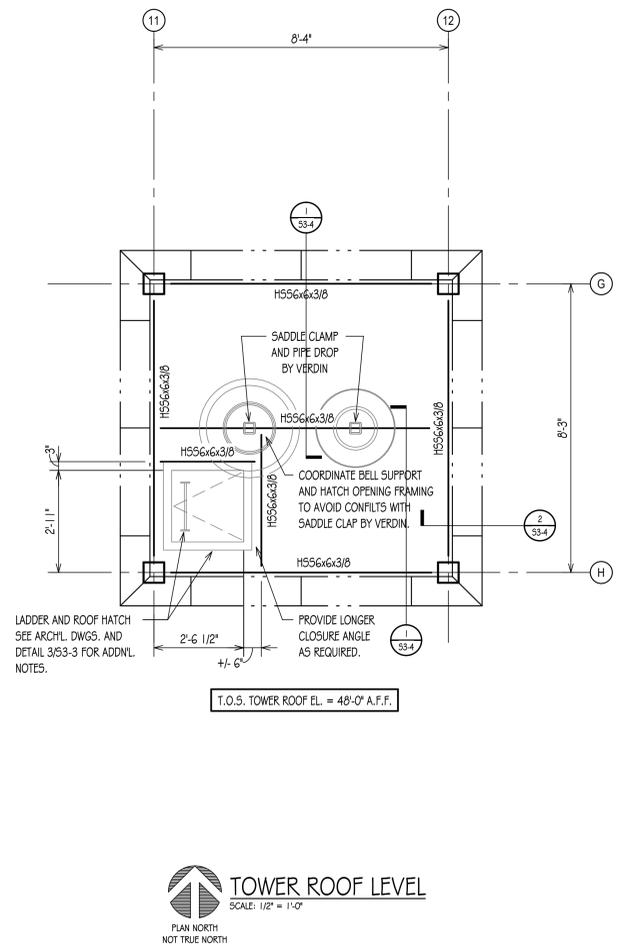
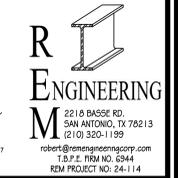


**ROOF FRAMING PLAN**  
 SCALE: 1/4" = 1'-0"  
 PLAN NORTH  
 NOT TRUE NORTH

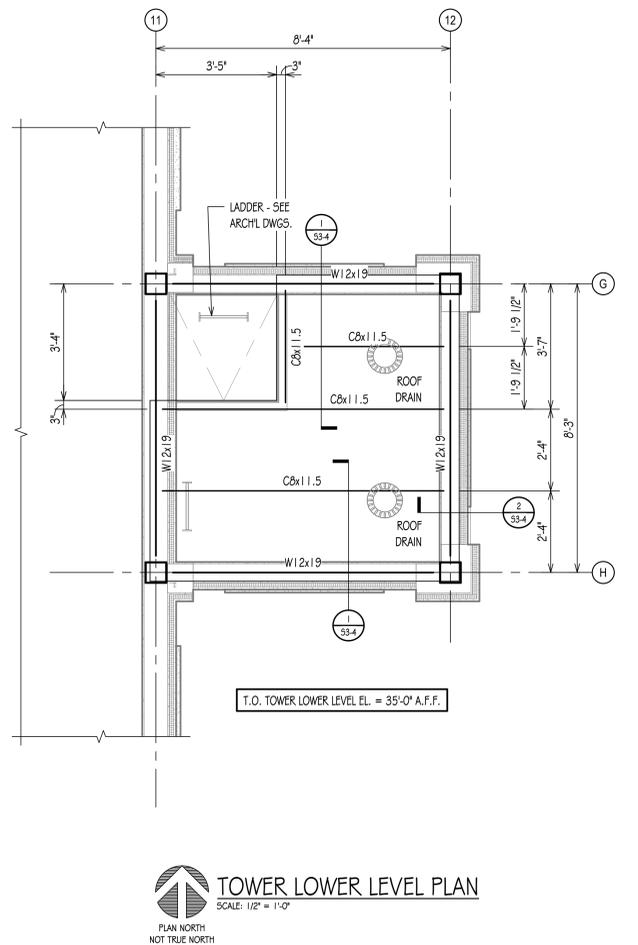


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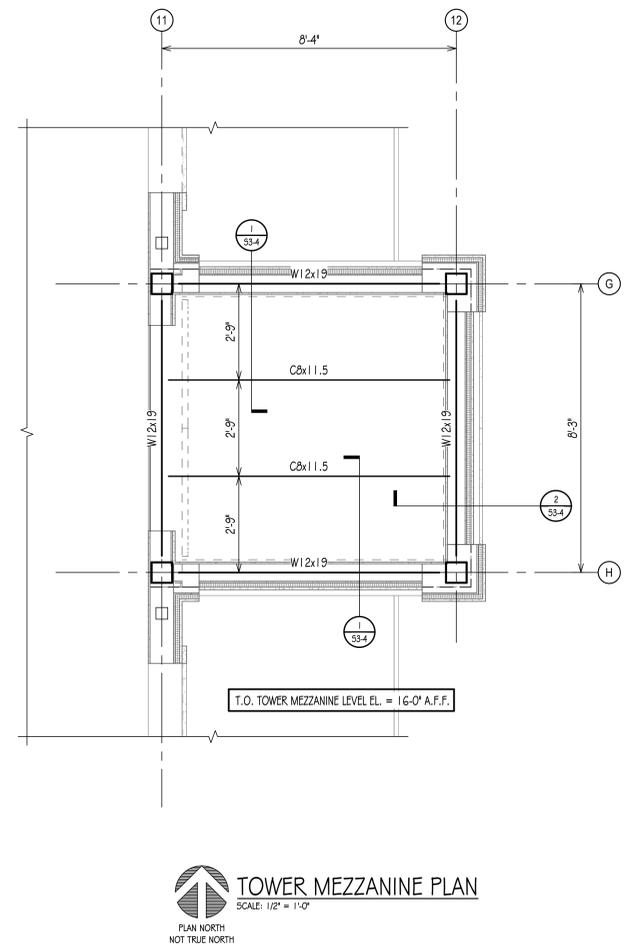
- BRACE ELEVATION KEYED NOTES:
- (B1) SEE DETAIL 1/53-2 FOR BRACE ELEVATION
  - (B2) SEE DETAIL 2/53-2 FOR BRACE ELEVATION
  - (B3) SEE DETAIL 3/53-2 FOR BRACE ELEVATION
  - (B4) SEE DETAIL 4/53-2 FOR BRACE ELEVATION
  - (B5) SEE DETAIL 5/53-2 FOR BRACE ELEVATION
  - (B6) SEE DETAIL 6/53-2 FOR BRACE ELEVATION



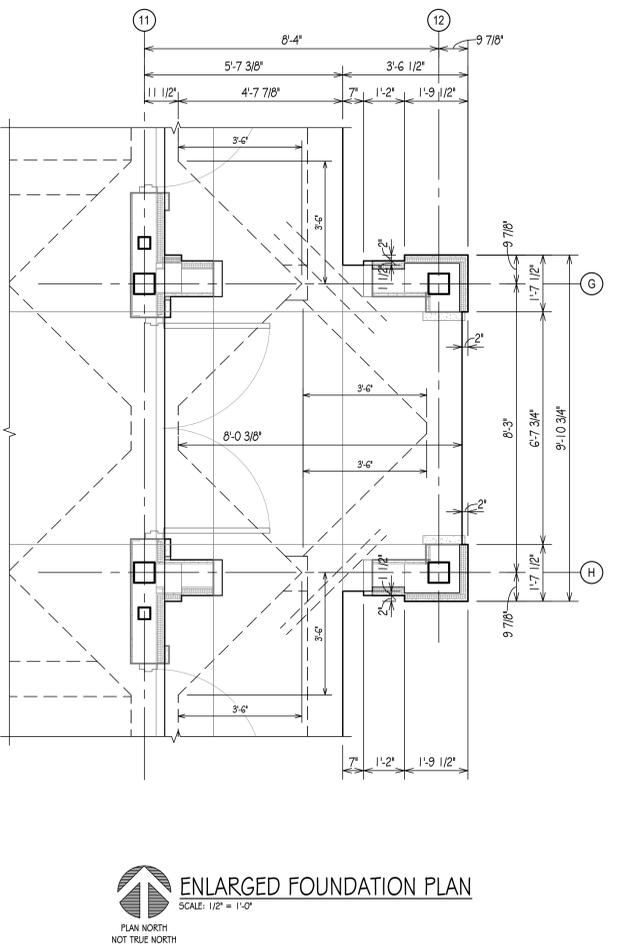
**TOWER ROOF LEVEL**  
 SCALE: 1/2" = 1'-0"  
 PLAN NORTH NOT TRUE NORTH



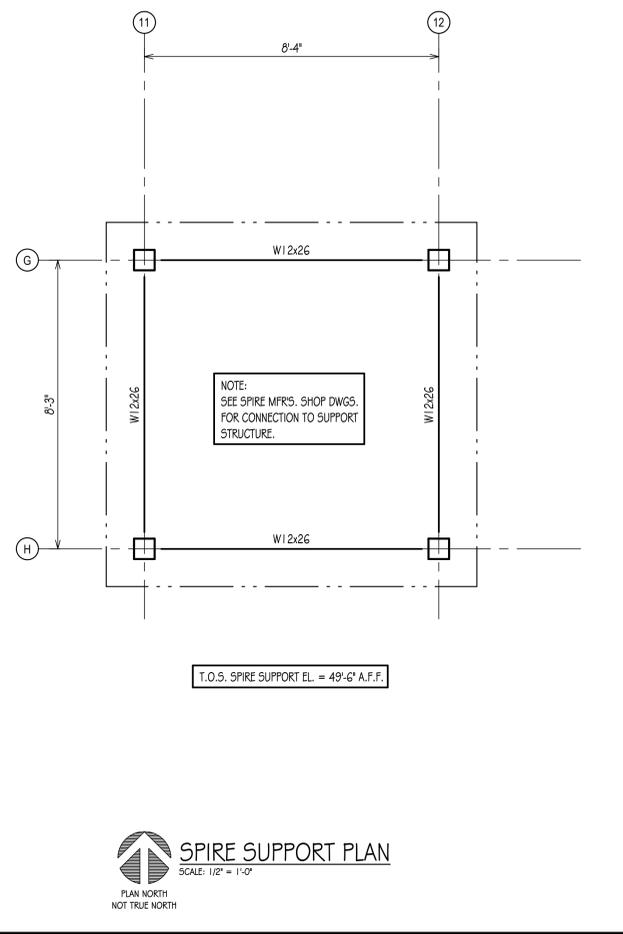
**TOWER LOWER LEVEL PLAN**  
 SCALE: 1/2" = 1'-0"  
 PLAN NORTH NOT TRUE NORTH



**TOWER MEZZANINE PLAN**  
 SCALE: 1/2" = 1'-0"  
 PLAN NORTH NOT TRUE NORTH

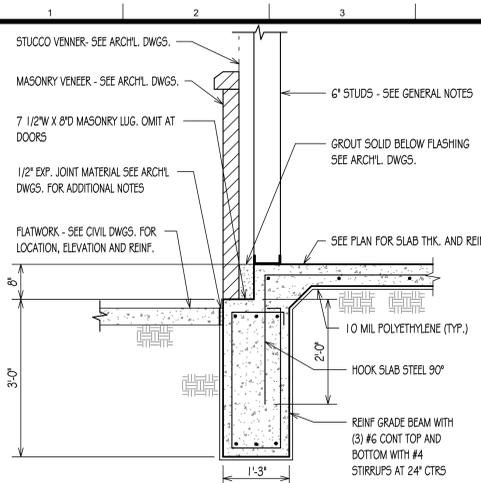


**ENLARGED FOUNDATION PLAN**  
 SCALE: 1/2" = 1'-0"  
 PLAN NORTH NOT TRUE NORTH

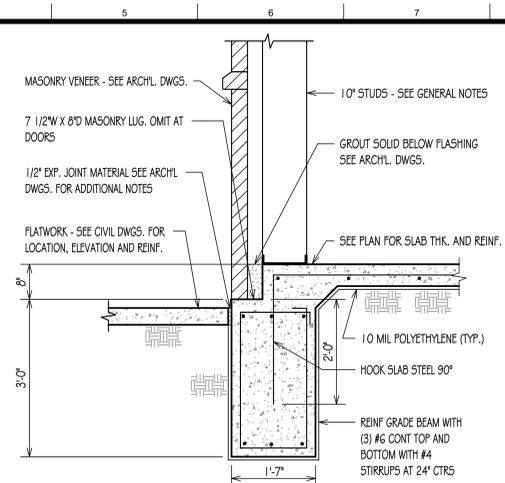


**SPIRE SUPPORT PLAN**  
 SCALE: 1/2" = 1'-0"  
 PLAN NORTH NOT TRUE NORTH

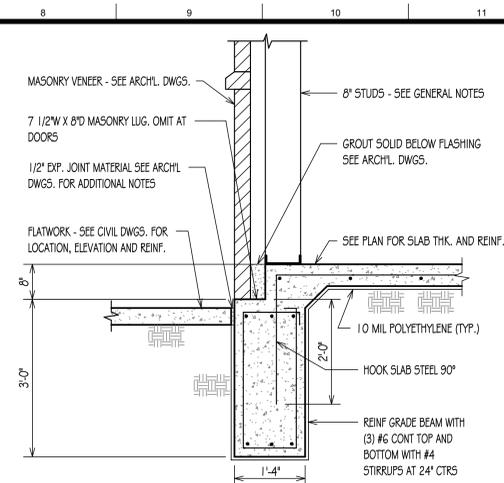
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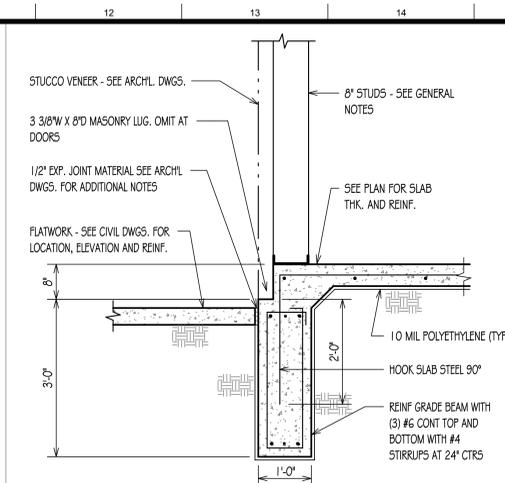
1 TYPICAL PERIMETER GRADE BEAM DETAIL AT 6" STUDS



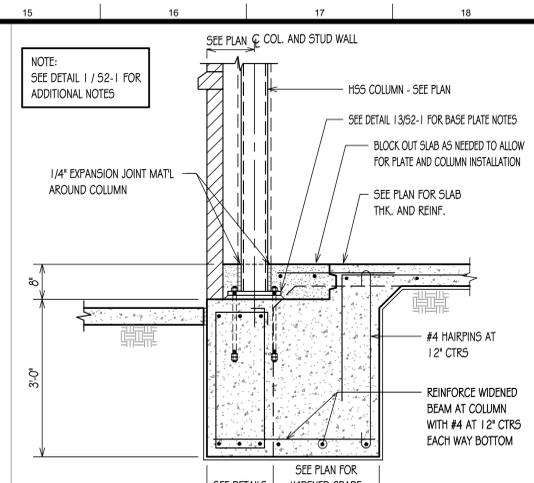
2 TYPICAL PERIMETER GRADE BEAM DETAIL AT 10" STUDS



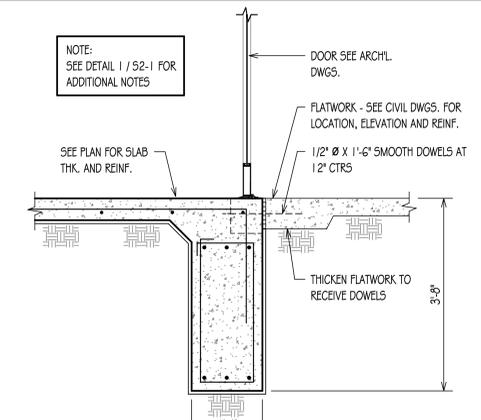
3 TYPICAL PERIMETER GRADE BEAM DETAIL AT 8" STUDS (MASONRY VENEER)



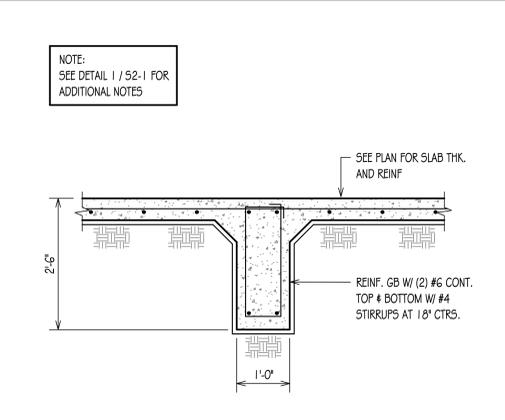
4 TYPICAL PERIMETER GRADE BEAM DETAIL AT 8" STUDS (STUCCO)



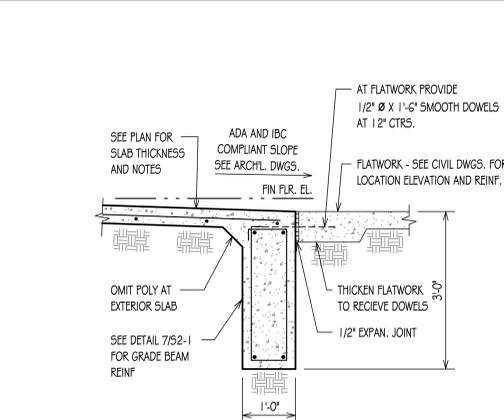
5 TYPICAL PERIMETER GRADE BEAM DETAIL AT COLUMN



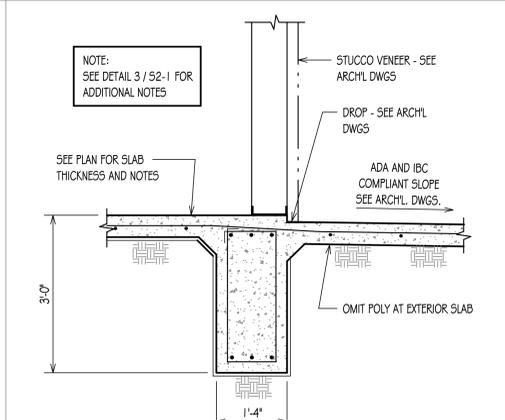
6 PERIMETER GRADE BEAM DETAIL AT DOOR



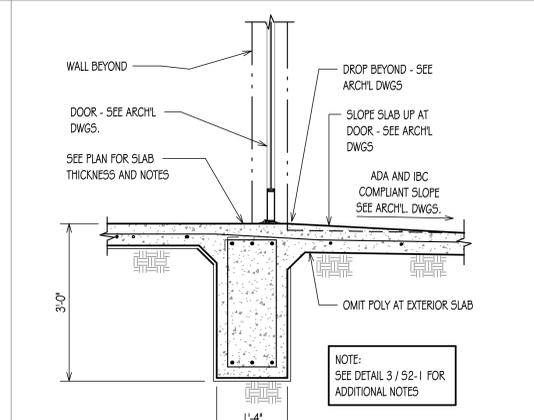
7 TYPICAL INTERIOR GRADE BEAM DETAIL



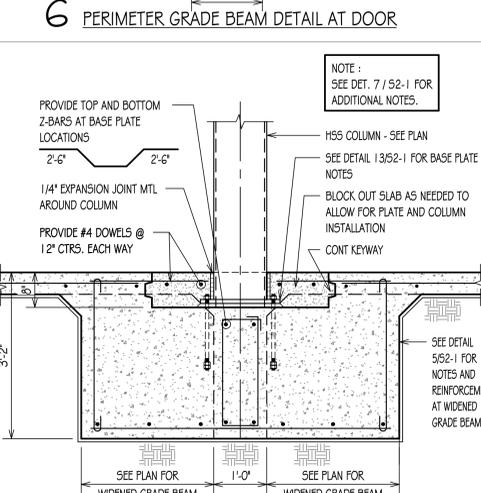
8 TYPICAL PERIMETER GRADE BEAM DETAIL



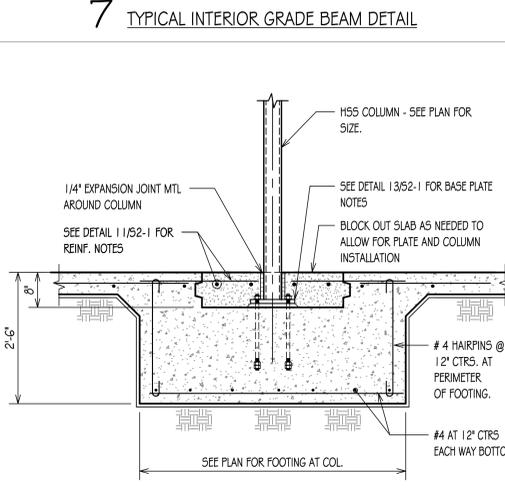
9 TYPICAL GRADE BEAM DETAIL AT EXTERIOR WALL



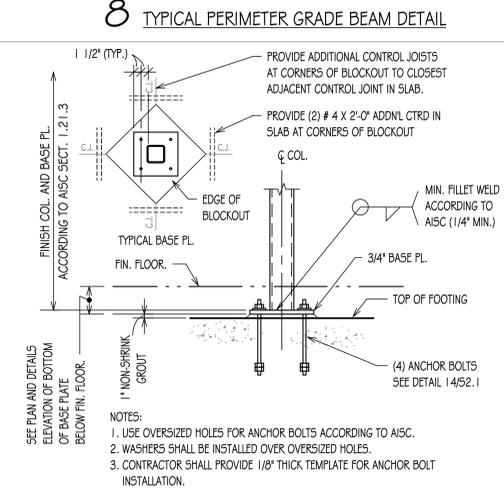
10 TYPICAL GRADE BEAM DETAIL AT DOOR



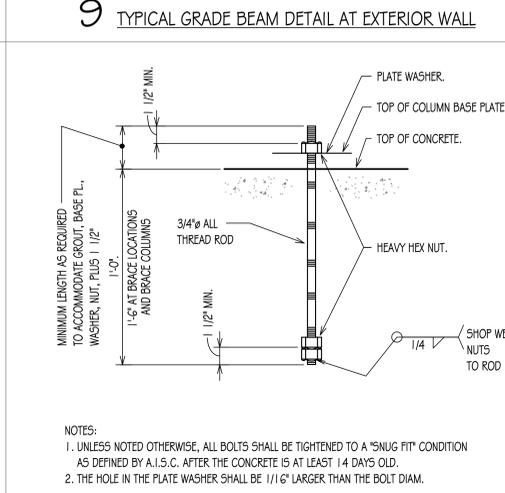
11 TYPICAL INTERIOR COLUMN DETAIL



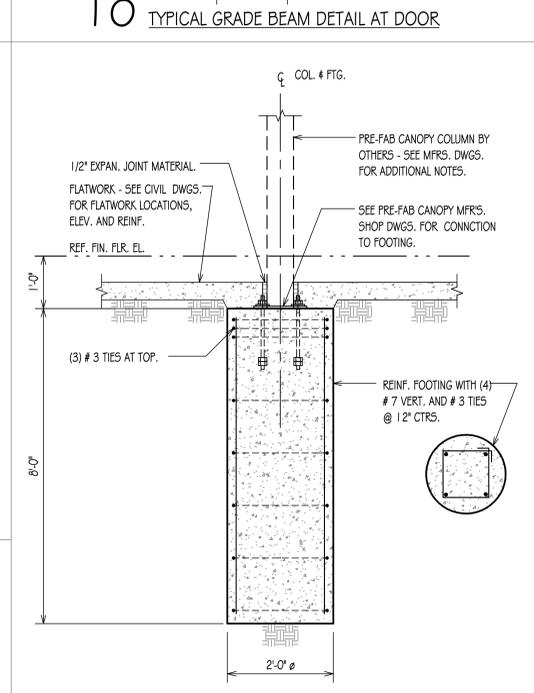
12 TYPICAL INTERIOR COLUMN DETAIL



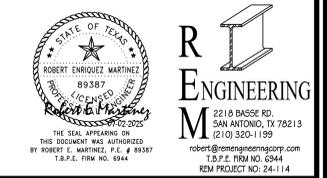
13 TYPICAL COLUMN BASE PLATE CONNECTION DETAIL



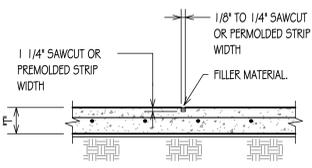
14 TYPICAL ANCHOR BOLT DETAIL



15 FOOTING DETAIL AT PRE-FAB CANOPY COLUMN



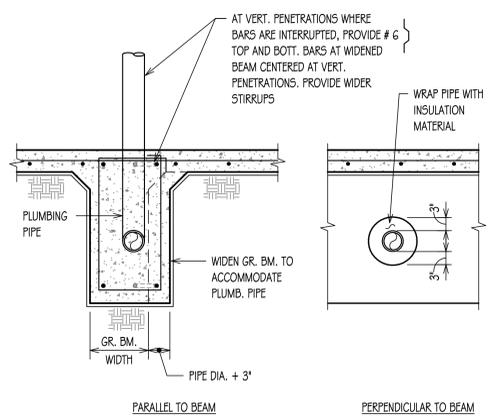
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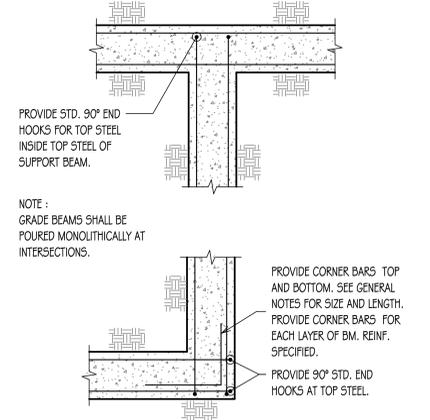
**SAW CONTROL JOINT NOTES**  
 1. MAKE SAWCUT AS SOON AS SLAB IS ABLE TO SUPPORT WEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO FINISH SURFACE OF SLAB.  
 2. CLEAN JOINT PRIOR TO FILLING THE JOINT.

**JOINT FILLER MATERIAL NOTES**  
 1. FILLER MATERIAL USED SHALL HAVE A MINIMUM HARDNESS OF 35, AND SHALL CONFORM TO ASTM D2240-01. JOINT FILLER SHALL BE APPROVED BY ENGINEER PRIOR TO APPLICATION.  
 2. WHERE POSSIBLE, FILLER MATERIAL SHALL BE APPLIED WHEN BUILDING IS UNDER PERMANENT TEMPERATURE CONTROL. THIS SHALL BE EITHER AT THE END OF CONSTRUCTION OF THE COMPLETE BUILDING SHELL, OR A MINIMUM OF 90 DAYS AFTER SLAB CONSTRUCTION.  
 3. FOLLOW STRICTLY THE MANUFACTURERS RECOMMENDED PROCEDURES FOR APPLYING THE JOINT FILLER.

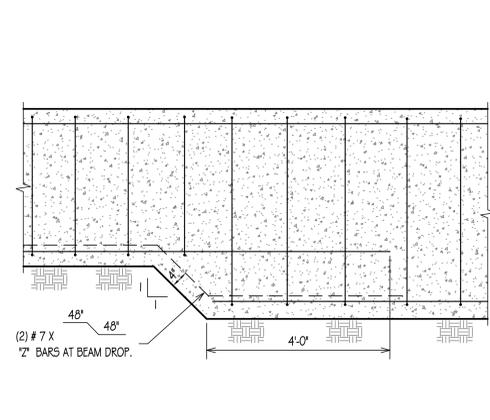
1 TYPICAL SAWED SLAB CONTROL JOINT DETAIL



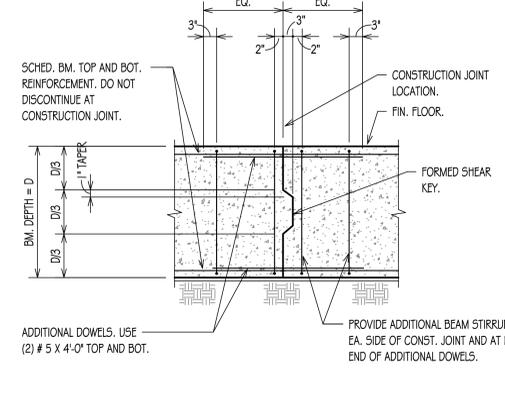
2 TYPICAL PIPE PENETRATION THROUGH GRADE BEAM DETAIL



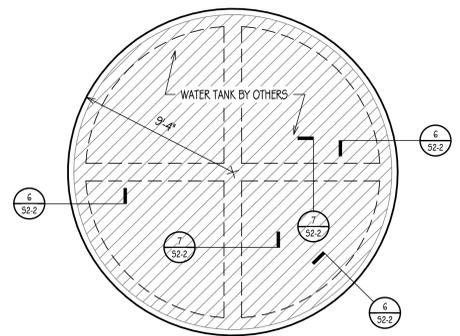
3 TYPICAL DETAIL GRADE BEAM REINF. STEEL (PLAN VIEW)



4 TYPICAL GRADE BEAM DETAIL AT CHANGE IN GRADE BEAM ELEVATION



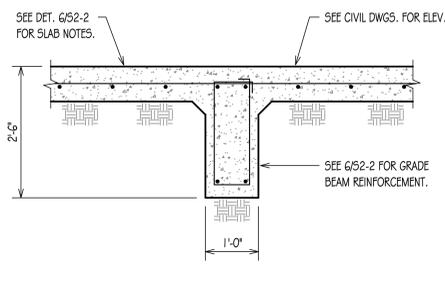
5 TYPICAL GRADE BEAM CONSTRUCTION JOINT DETAIL



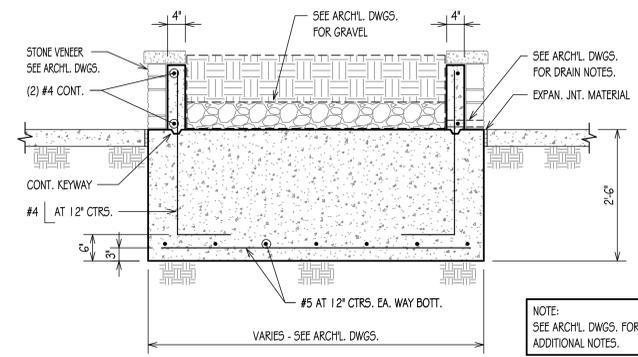
**WATER TANK FOUNDATION PLAN NOTES:**  
 1. SEE SITE PLAN FOR TANK LOCATION.  
 2. COORDINATE FOUNDATION DIMENSIONS WITH WATER TANK MFRS' DRAWINGS.  
 3. COORDINATE ELEVATION WITH CIVIL DWGS.  
 4. SEE GENERAL NOTES FOR SUBGRADE PREPARATION.



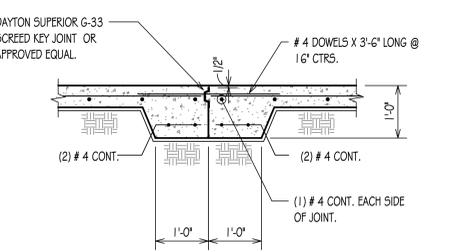
6 TYPICAL WATER TANK FOUNDATION DETAIL



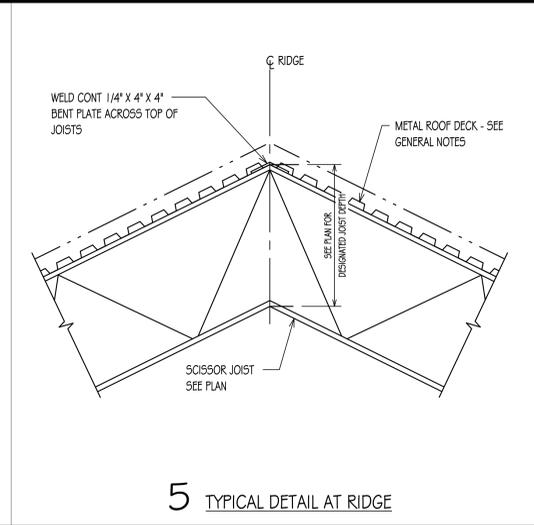
7 TYPICAL INTERIOR GRADE BM. DET. AT WATER TANK



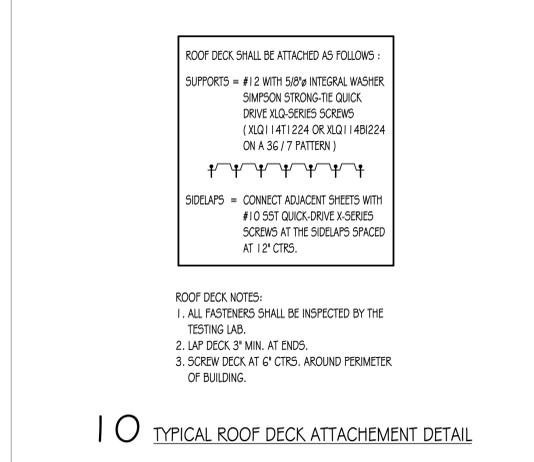
8 TYPICAL STONE PLANTER DETAIL



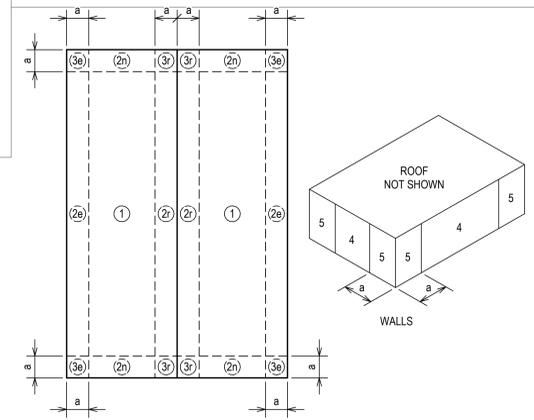
9 TYPICAL CONSTRUCTION JOINT SLAB ON GRADE DETAIL



5 TYPICAL DETAIL AT RIDGE



10 TYPICAL ROOF DECK ATTACHMENT DETAIL

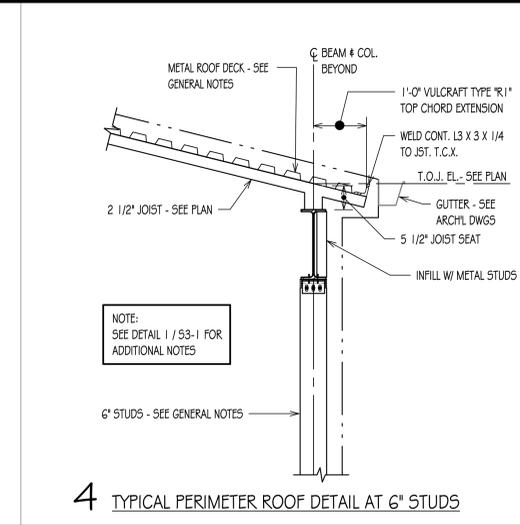


COMPONENTS AND CLADDING WIND PRESSURES (PSF)

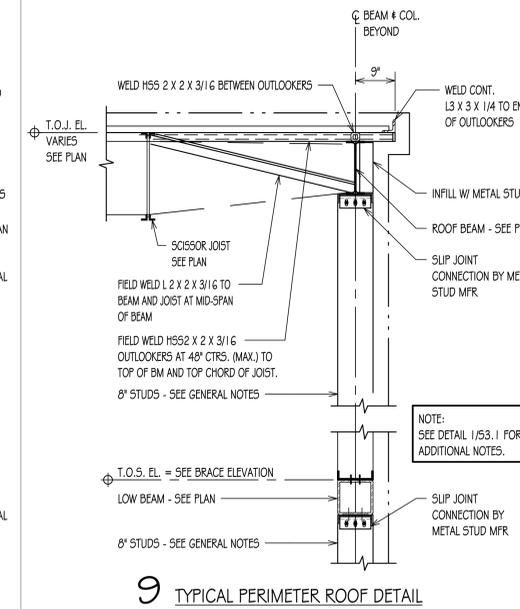
ZONE	10 ft	10 ft	20 ft	20 ft	50 ft	50 ft	100 ft	100 ft
1		-33.82		-33.82		-28.68		-24.84
2e		-33.82		-33.82		-28.68		-24.84
2n		-53.89		-47.22		-38.38		-31.71
2r		-53.89		-47.22		-38.38		-31.71
3e		-53.89		-47.22		-38.38		-31.71
3r		-69.49		-56.72		-39.85		-39.85
4	23.74	-25.76	22.64	-24.67	21.25	-23.28	20.19	-22.18
5	23.74	-31.80	22.64	-29.69	21.25	-26.83	20.19	-24.67

NOTES:  
1. CLADDING PRESSURES ARE CALCULATED PER ASCE 7-16 AND ARE ASD LOADS.  
2. CORNER WALL ZONE 5 AND ROOF ZONE 3 DIMENSION IS "a" = 7'-4"

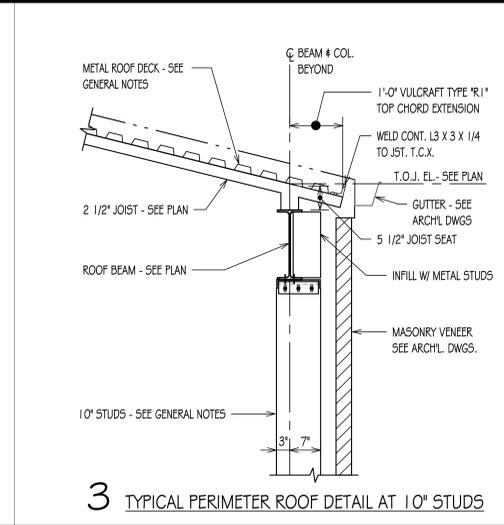
14 NET UPLIFT AND WIND PRESSURE DIAGRAM



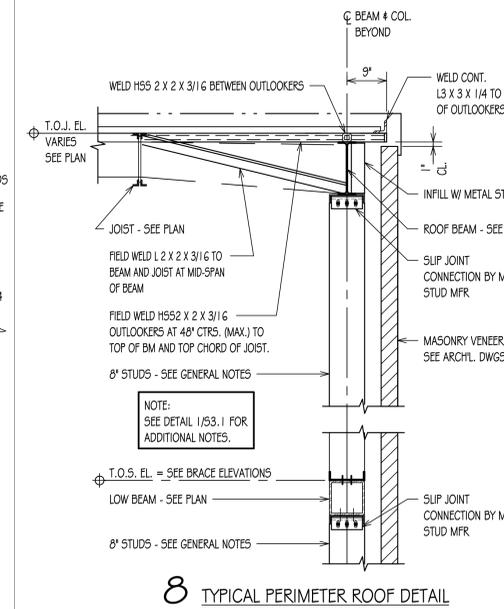
4 TYPICAL PERIMETER ROOF DETAIL AT 6" STUDS



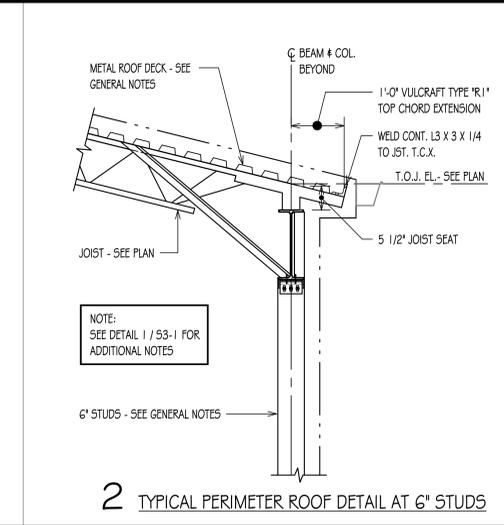
9 TYPICAL PERIMETER ROOF DETAIL



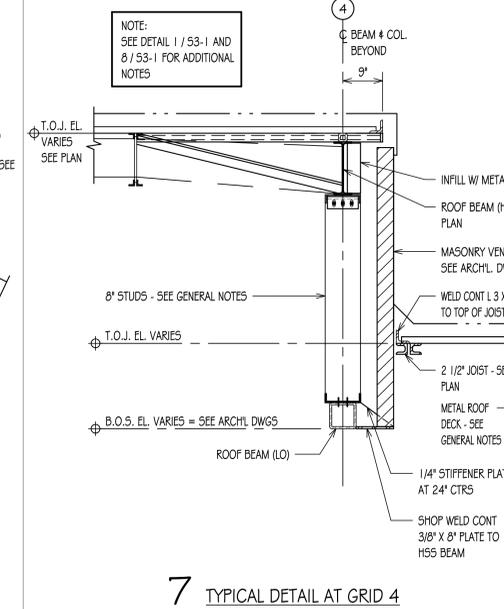
3 TYPICAL PERIMETER ROOF DETAIL AT 10" STUDS



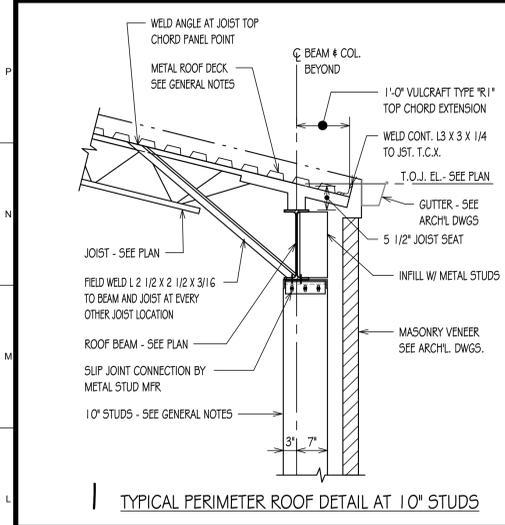
8 TYPICAL PERIMETER ROOF DETAIL



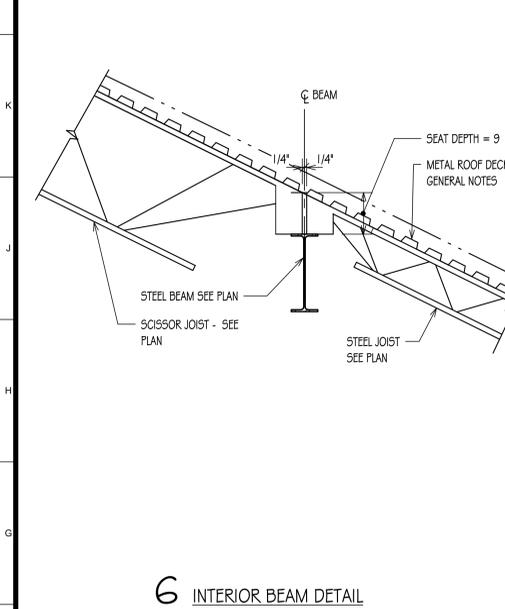
2 TYPICAL PERIMETER ROOF DETAIL AT 6" STUDS



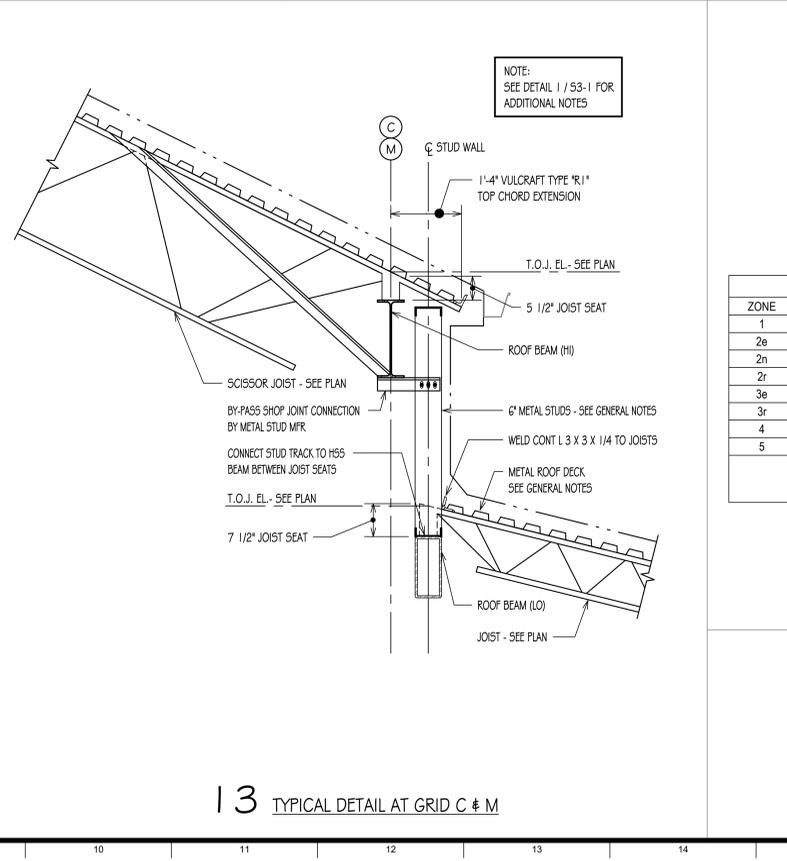
7 TYPICAL DETAIL AT GRID 4



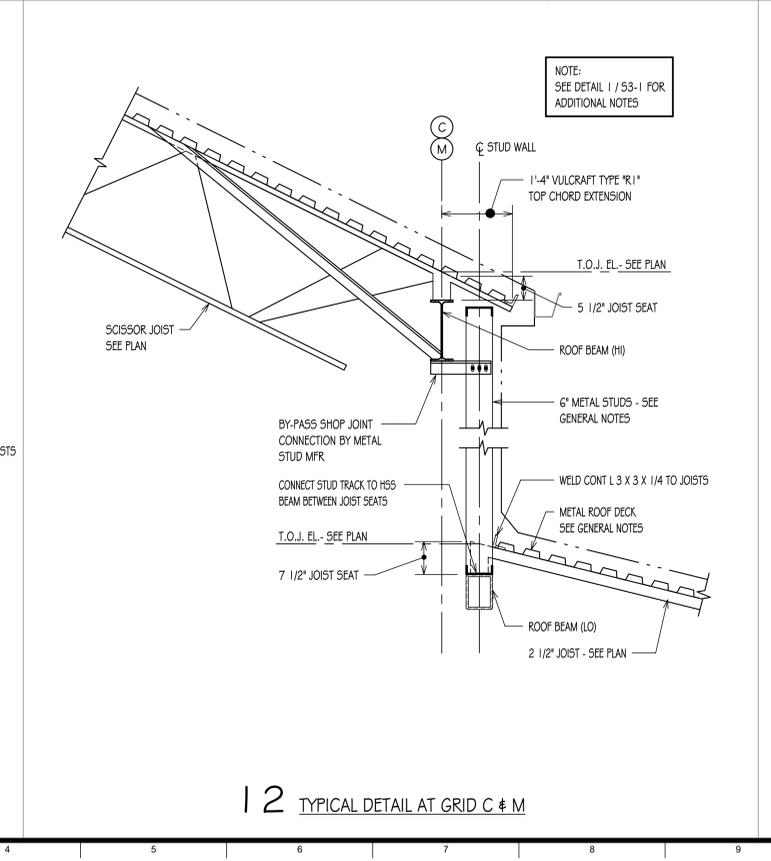
1 TYPICAL PERIMETER ROOF DETAIL AT 10" STUDS



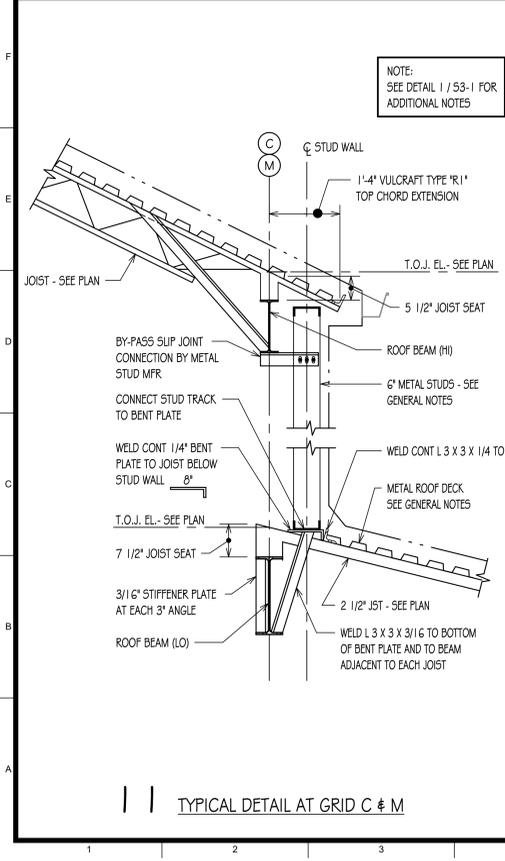
6 INTERIOR BEAM DETAIL



13 TYPICAL DETAIL AT GRID C & M



12 TYPICAL DETAIL AT GRID C & M

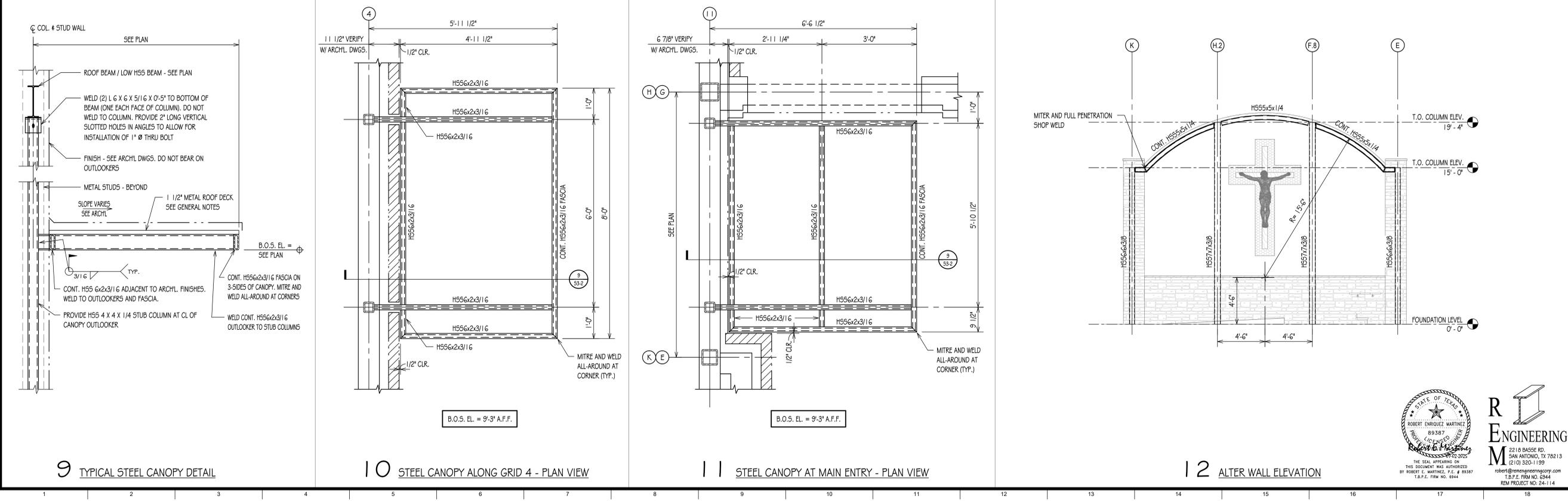
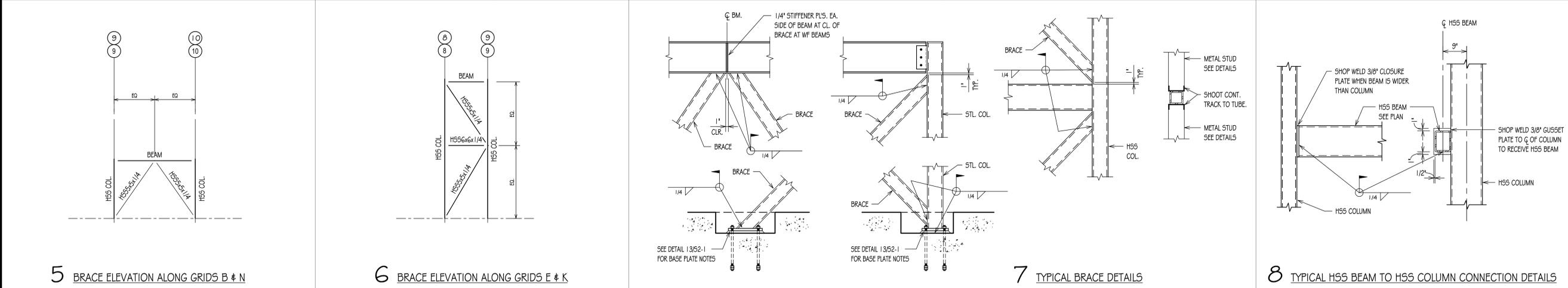
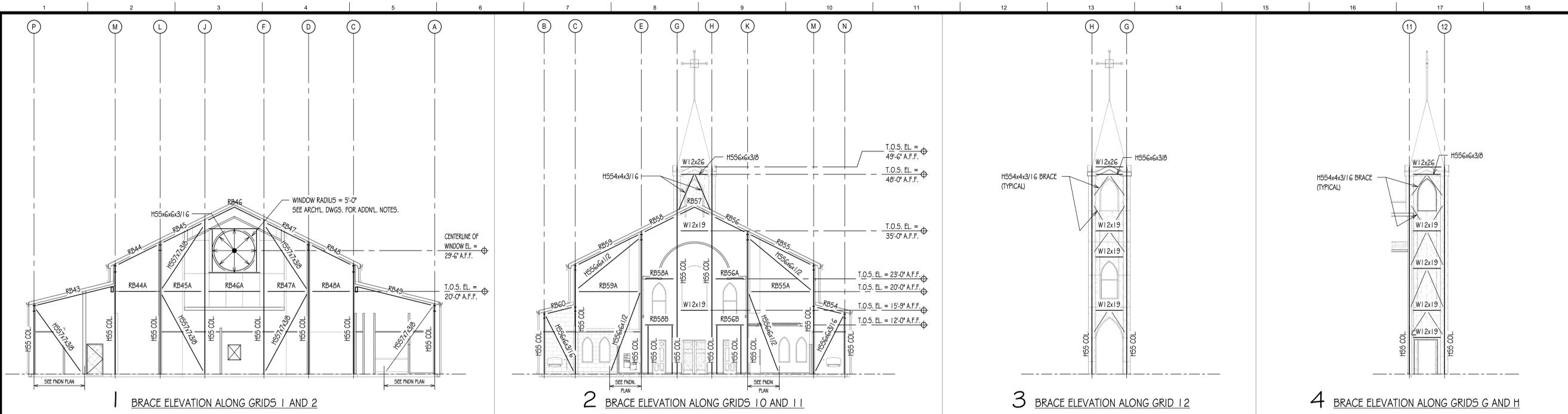


11 TYPICAL DETAIL AT GRID C & M

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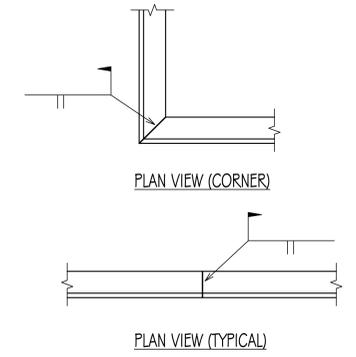
**R ENGINEERING**  
 M  
 2218 BASSE RD.  
 SAN ANTONIO, TX 78213  
 (210) 323-1109  
 THIS SEAL APPLICABLE TO THIS DOCUMENT WAS AUTHORIZED BY ROBERT E. MARTINEZ, P.E. # 89387  
 T.P.E. FIRM NO. 6944  
 R.E.M. PROJECT NO. 24-114



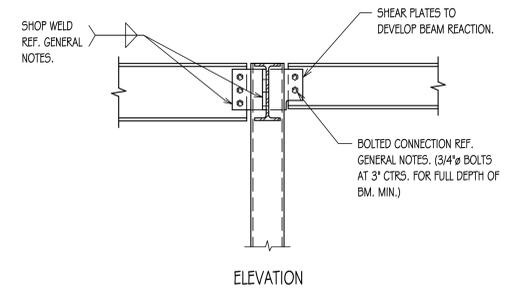
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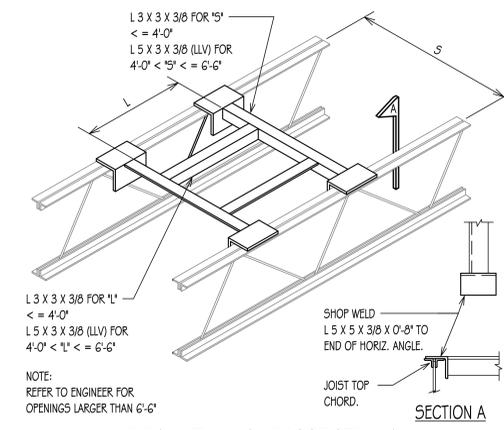
**R ENGINEERING**  
**M**  
 2218 BASSE RD.  
 SAN ANTONIO, TX 78213  
 (210) 323-1199  
 robert@remengineering.com  
 T.S.P.E. FIRM NO. 6944  
 NEM PROJECT NO. 24-114



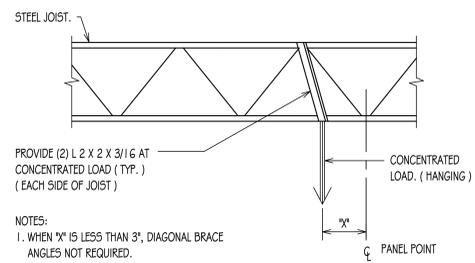
**5 DECK DIAPHRAGM CHORD ANGLE SPLICE DETAIL**



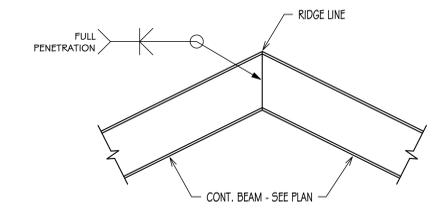
**4 TYPICAL DETAIL STEEL WIDE FLANGE BEAM CONNECTION TO TUBE COLUMNS**



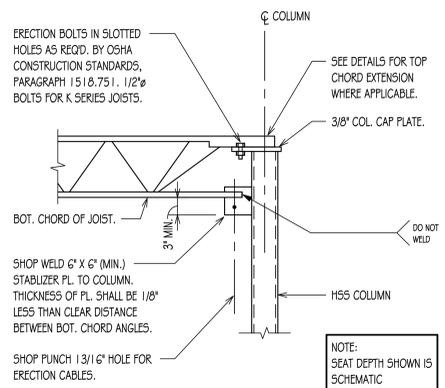
**3 TYPICAL FRAMING AT ROOF OPENING OPEN WEB STEEL JOIST CONSTRUCTION**



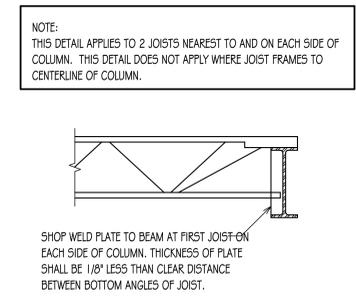
**2 TYPICAL STEEL JOIST WITH CONCENTRATED LOAD DETAIL**



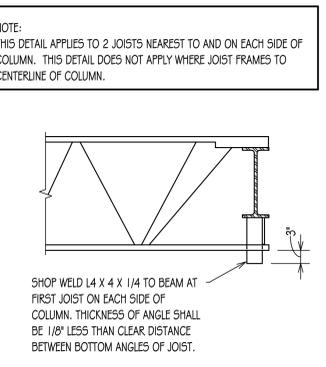
**1 CONTINUOUS BENT BEAM DETAIL**



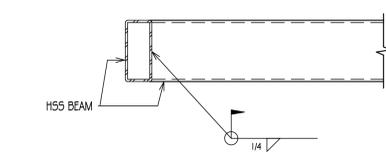
**10 TYPICAL DETAIL JOIST TO TOP OF COLUMN CONNECTION**



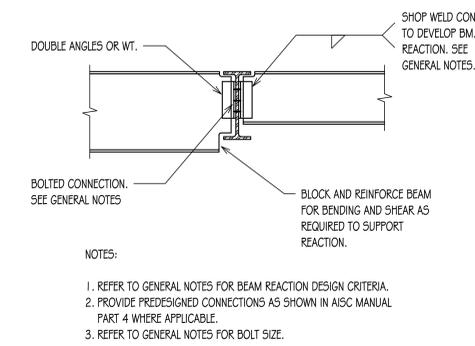
**9 TYPICAL JOIST BOTTOM CHORD TO BEAM CONNECTION ON EACH SIDE OF COLUMN**



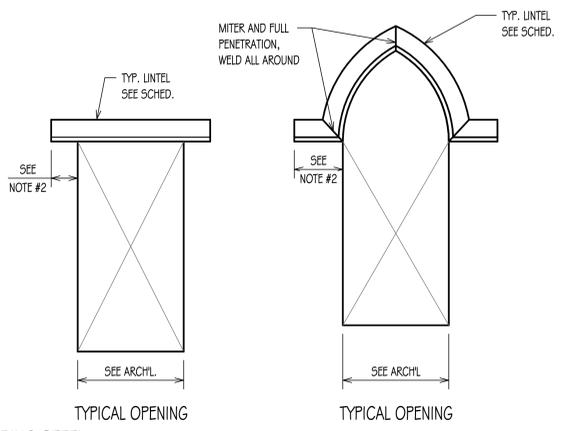
**8 TYPICAL JOIST BOTTOM CHORD TO BEAM CONNECTION ON EACH SIDE OF COLUMN**



**7 TYPICAL HSS BEAM TO HSS BEAM CONNECTION DETAIL**



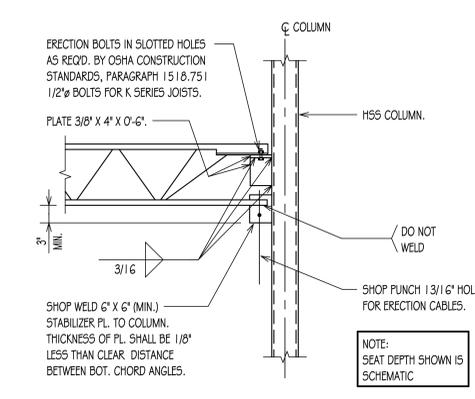
**6 TYPICAL DETAIL BEAM DOUBLE ANGLE SHEAR CONNECTION**



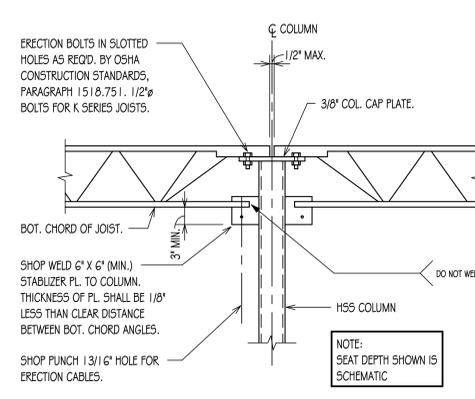
**13 NON-LOAD BEARING STEEL LOOSE LINTEL SCHEDULE EXTERIOR MASONRY**

CLEAR OPNG.	MINIMUM ANGLE SIZE
* 6'-0"	(1) L 3 1/2" X 3 1/2" X 5/16"
6'-8"	(1) L 4" X 3 1/2" X 5/16"
7'-4"	(1) L 5" X 3 1/2" X 5/16"
8'-0"	(1) L 6" X 3 1/2" X 5/16"
10'-0"	(1) L 7" X 4" X 7/16"
12'-0"	(1) L 9" X 4" X 1/2"

\* USE FOR ALL CLEAR OPENINGS LESS THAN 6'-0".



**12 TYPICAL DETAIL JOIST TO SIDE OF COLUMN CONNECTION**



**11 TYPICAL DETAIL JOIST TO TO OF COLUMN CONNECTION**

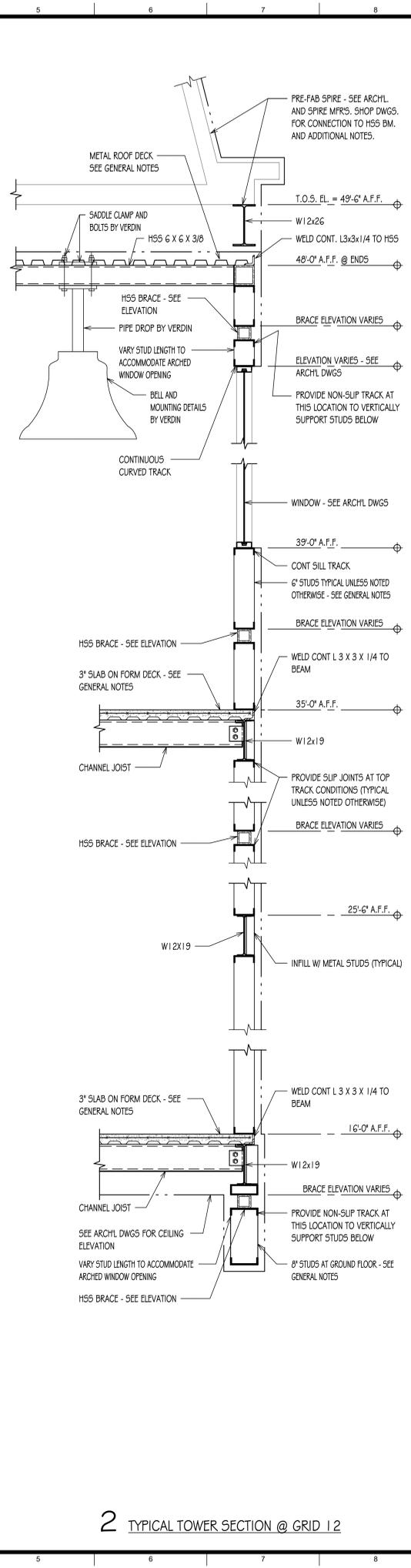
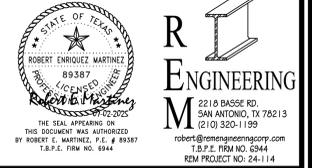
**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
**DIOCESE OF VICTORIA**  
 HOUSTON, TX

DATE ISSUED:  
**07-02-2025**

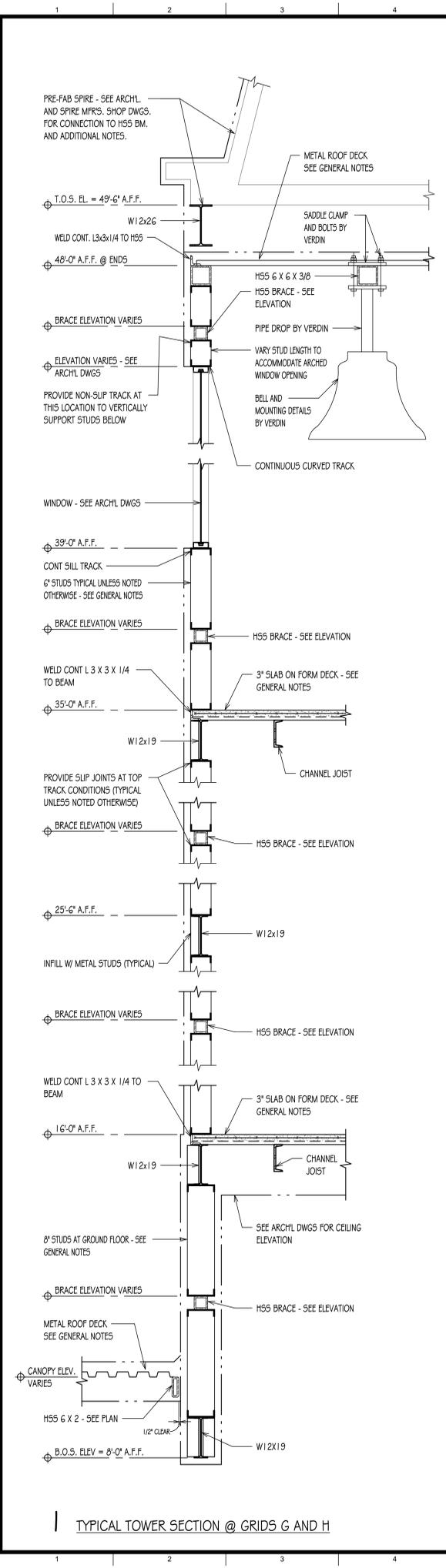
PROJECT NUMBER:  
 1024-0623

PLAN NORTH TRUE NORTH  
 SHEET NAME  
**FRAMING DETAILS**

SHEET NUMBER  
**S3-4**



**2** TYPICAL TOWER SECTION @ GRID 12



**1** TYPICAL TOWER SECTION @ GRIDS G AND H

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GENERAL NOTES

GENERAL

- GC-1 The contract structural documents represent the finished structure, and, except where specifically shown, do not indicate the method or means of construction. The Contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, and sequence.
GC-2 The structure has been designed to resist design loads only as a completed structure. Applications of construction loads to the partially completed structure shall be considered by the Contractor and so included in the design of shoring, bracing, formwork, and any other supporting elements provided for construction of the structure. During erection and until all permanent connections are made, the Contractor must provide temporary bracing to brace the structure in all directions.
GC-3 The Engineer shall not have control or charge of, and shall not be responsible for, construction means, methods techniques, sequences, or procedures for safety precautions and programs in connection with the work, for the acts or omission of the Contractor, Subcontractor, or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with the contract documents.
GC-4 General Contractor shall check and verify all dimensions, grade conditions, (both new and existing) reporting any discrepancies to the Engineer before proceeding with any phase of the work as the Contractor will be responsible for all work fitting as intended by the construction documents.

STRUCTURAL DESIGN CRITERIA

- SD-1 A. Live loads: 1. Roof - 20 PSF (Reduced in accordance with IBC 1607.13.2.1) 2. Offices - 50 PSF 3. Partitions - 20 PSF 4. Public Areas - 100 PSF (Non-Reduceable) 5. Mechanical Rooms - 125 PSF (Non-Reduceable) 6. Storage Rooms - 125 PSF (Non-Reduceable) 7. Combinations in accordance with IBC 1605.3.1
B. Wind loads - ASCE 7-16 (IBC 1609.1) Ultimate Design Wind Speed (MPH) 124 (Vu1t) Exposure classification C Risk Category III (IBC Table 1604.5)
C. Ground Snow Load 5 PSF
D. Seismic Design Category A
SD-2 Applicable codes: A. 2018 International Building Code B. ASCE 7-16 C. ACI 318-14 D. AISC Fourteenth Edition 2011 E. AWS D1.1

GEOTECHNICAL REPORT

- GR-1 Foundation design is based on the geotechnical investigation report by Intertek-PSI dated September 25, 2024. (PSI Project No. 0312-3058-R2)
GR-2 The soil report is available to the General Contractor upon request to the Architect. The information included therein may be used by the General Contractor for his general information only.

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

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

- UF-2 The subgrade and underfloor fill shall be prepared in accordance with the geotechnical report recommendations provided by Intertek-PSI. The subgrade and select fill pad shall be tested, inspected and approved by the Testing Lab in writing prior to placing concrete. The subgrade and select fill pad preparation shall improve subgrade performance to limit the PVR to 1" or less.

Minimum requirements are as follows:

- A. Remove a minimum five (5) foot depth of native soils from the building pad area. Remove additional native soils as needed so that minimum five (5) foot depth of fill material can be installed to the bottom of slab elevation. The existing grade elevations at this site may dictate that additional native soils be removed to allow for a uniform thickness pad to be installed.
B. The exposed subgrade soils shall be proof-rolled with a rubber tired, 20-ton (loaded) construction equipment. Alternate equipment can be utilized with the approval of the Testing Lab. Remove soils observed to rut and deflect with compacted select fill material.
C. The upper 9-inches of the exposed subgrade shall be scarified, moisture conditioned, and recompacted per ASTM D698 to a minimum 95% with an optimum moisture content between 0 to +4 percent for soils with a Plasticity Index less than 25 and to between 94% to 98% with an optimum moisture content equal to or greater than 2% for soils with a Plasticity Index greater than or equal to 25.

- D. Install a two (2) foot thick layer of reconditioned fill on the compacted subgrade material. The reconditioned fill layer shall be on site or imported materials have a Plasticity Index between 12 to 45, the percent passing the No. 200 Sieve greater than 50 and a maximum particle size of 3-inches. The reconditioned fill shall be installed in no greater than 8-inch thick loose lifts and then compacted per the criteria listed in Section UF-2C above.

- E. Within four (4) days of the completion of the reconditioned fill installation, or sooner, install a minimum three (3) foot thick layer of select fill material. The select fill material shall be a TxDOT Item 247, Type A or B, Grade 1, 2, or 3 Crushed Limestone Material. The select fill material shall be installed in no greater than 8-inch thick loose lifts and then compacted per ASTM D698 to a minimum 95% with a moisture content between -1% to +3% of optimum.

Refer to the Intertek-PSI report for alternative select fill materials. ALL proposed select fill material must be submitted to Intertek-PSI for approval prior to its use in the field.

- F. All subgrade and select fill layers must be tested for compaction and moisture content at a rate of 1 test per 5,000 SF with a minimum of three (3) tests per lift. Each lift must be tested and approved by the Testing Lab prior to proceeding with work on subsequent lifts.

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

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

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

- UF-6 Trenching of grade beams shall be excavated in order to provide the beam cross sections indicated. Beam and slab depths and widths as indicated are minimum acceptable sizes. Larger size beams and slabs formed by less accurate trenching may require additional reinforcing (not shown) which shall be determined by the Engineer during construction review. All loose soil from sides and bottoms of trenches shall be removed. If a toothed bucket is used, excavation with this bucket shall stop six (6) inches above final grade and the excavation completed with a smooth-bucket or by hand labor.
UF-7 Drain exposed grade beams during construction in the event of inclement weather.

CONCRETE/REINFORCING

- CR-1 All concrete shall test 3000 PSI at 28 days and shall be in accordance with ACI 301. Flyash shall not exceed 20 percent.
CR-2 There shall be no horizontal construction joints in concrete pours. All construction joints shall be made in the center of spans with bulkheads.
CR-3 Bar support accessories shall be provided in accordance with the latest ACI manual of standard practice for detailing reinforced concrete structures, except that reinforcing shall be supported on bolsters spaced not more than 4 feet on center. Bar supports for concrete exposed to view shall have plastic coated legs or be hot dip galvanized after fabrication. Do not use half bricks for bar supports.

- CR-4 Mechanical and electrical conduit in slabs shall run under top layer of slab reinforcing. Provide a minimum of 1-1/2" clear between conduits and between reinforcing and adjacent conduits parallel to reinforcing. Excavate subgrade and recess conduits as needed to maintain slab thickness and achieve the necessary clearances.

- CR-5 All anchor bolts must be installed prior to concrete placement. The Contractor must fabricate templates (wood is acceptable) for the installation of the bolts.

- CR-6 Where expansion bolts (exp. bolt) are shown, they shall be Hilti or Simpson Strong-Tie type or approved equal. All anchors shall be zinc plated meeting the requirements of ASTM B633. Expansion anchors shall be installed using minimum depths, edge distances and spacing (unless otherwise noted), as recommended by the anchor manufacturer and shall be tightened to the torque requirements of the manufacturer.

- CR-7 All reinforcing steel shall be grade 60 and shall conform to the ASTM Specification A615. Detailing of reinforcing steel shall conform to the American Concrete Institute Detailing Manual. Lap continuous unscheduled reinforcing bars 40 bar diameters at splices. Tie wire shall be 18 gage annealed type. Rebar shall not be heated with a torch in the field.

- CR-8 Provide 1-#6 x 4'-0" L-shaped bar top and bottom of exterior face of grade beams at corners.

- CR-9 Reinforcing steel coverage shall be: Grade Beams - 3"

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

- CR-11 Vapor barrier shall be 10 mil polyethylene film for below grade application with a permeance of less than 0.3 US perms (ASTM E96). Vapor barrier shall be continuous with joints lapped a minimum of 12 inches and taped. The vapor barrier shall be installed in accordance with ASTM E1643.

- CR-12 Concrete shall be placed and cured in accordance with ACI 302.1R. Finish tolerance shall be in accordance with ACI 117.

- CR-13 Construct formwork to maintain tolerances outlined in ACI 347. Formwork shall extend a minimum of 6 inches below finished grade at perimeter beams.

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

- CR-15 All anchor bolts for pre-engineered canopies must be installed prior to concrete placement. The Contractor must fabricate templates (wood is acceptable) for the installation of the bolts. These templates must be coordinated by the Contractor with the approved anchor bolt shop drawings submitted by the canopy manufacturer. The General Contractor shall provide and set anchor bolts as per canopy manufacturer's drawings.

EPOXY

- EX-1 Care shall be taken in placing post-installed anchors to avoid conflicts with existing rebar. Holes shall be drilled and cleaned in accordance with the manufacturer's written instructions. Substitution requests for products other than those specified below shall be submitted by the Contractor to the Engineer.

- EX-2 All holes shall be drilled with a "Rotary Hammer" percussion drill. All holes shall have a diameter no larger than 1/8" greater than the diameter of the steel member being installed.

- EX-3 All holes shall be cleaned with compressed air and shall be dry prior to installation of epoxy. Holes shall be free of all deleterious material such as laitance, dust, dirt, and oil.

- EX-4 Steel shall be cleaned to a bright finish with wire brushes prior to installation. Prime surface as required by Manufacturer.

- EX-5 Acceptable Products are HILTI RE 500 V3, HILTI HIT HY200 or Simpson Strong-Tie Set-XP or approved equal. Substitutions may be considered provided complete technical information is furnished to the Engineer and approved prior to commencement of work. In using the above products, follow strictly the manufacturer's specifications and directions for mixing and application. Also heed all label warnings by manufacturer. Make application in accordance with applicable safety laws.

STRUCTURAL STEEL

- ST-1 All structural steel shall conform to ASTM Specifications A36 except wide flange shapes shall conform to ASTM A992 GR50. Pipe members shall conform to ASTM A501 or A53, grade B. Square or rectangular tube shapes shall conform to ASTM A500, grade B. Structural steel details and connections shall conform to the standards of the AISC. Splicing of structural steel members is prohibited without prior approval of the Engineer as to location and type of splice to be made. Any member having a splice not shown and detailed on shop drawings will be rejected. All welding shall conform to the American Welding Society Code. Use E70 series electrodes for all structural steel welds. Continuous weld all cap plates and base plates to columns.

- ST-2 All connections shall have 3/4" diameter bolts at 3" on center for full depth of beam as a minimum. Field connections shall be equivalent to standard bolted connections using 3/4" diameter ASTM A325X bolts unless otherwise shown. Connections shall be bolted or welded. See details. Provide web connections for steel beams at columns unless otherwise noted. Unless otherwise noted on the drawings, the reactions for each end of beam shall be designed using 1/2 of the tabulated allowable load for the given span as tabulated in Part 2 of the AISC manual of steel construction.

- ST-3 Examine the Architectural and Structural drawings for all items required to be hot-dip galvanized after fabrication.

- ST-4 Provide 3/8" column cap plate where joist bears on column and 3/4" column cap plate where beam bears on column.

- ST-5 All connection plates and angles for structural steel shall be 3/8" thick at 3/4" diameter bolts.

- ST-6 Unless noted otherwise on the Architectural Drawings, all structural steel members shall receive the manufacturer's standard primer. General Contractor shall apply touch up paint as needed in the field.

- ST-7 All columns bearing on embed plates are classified as "POSTS" and are NOT designed for eccentric load of erection personnel. Do NOT climb on posts supported by embed plates or structural members supported by posts until they are fully welded to embed plates.

STEEL JOISTS

- SJ-1 All joists shall be cambered for dead load. All steel joists shall conform to latest standard load table design, fabrication and erection requirements of the 'Steel Joist Institute'. All bridging shall be bolted or welded at all joists and at all crossings and anchored to Spandrel Members. Size of bridging shall be as required by the joist supplier.

- (1) Roof Joists: K Series - 1" x 1" x 7/64" angle, (min. size) All joists shall have angle bottom chord members unless otherwise approved.

- SJ-2 All joists shall be welded to supports per SJI specifications.

- SJ-3 Provide flat bearing for all joists.

- SJ-4 Where bar joists are utilized, and columns are not framed in at least two directions with structural steel members, a bar joist shall be field bolted to columns with two 1/2" diameter A307 bolts at each end of the joist to provide lateral stability during construction.

- SJ-5 Joists shall be designed for a net uplift of 31 PSF at the Interior Zones, 38 PSF at the Perimeter Zones and 47 PSF at the Corner Zones.

- SJ-6 All shop drawings for joists shall be drawn by the joist fabricator, NOT the steel fabricator. Zinfab is NOT an approved fabricator of steel joists and deck.

- SJ-7 Joist manufacturer shall be a current member of the Steel Joist Institute (no exceptions). Zinfab is NOT an approved fabricator of steel joists and deck.

- SJ-8 Unless noted otherwise on the Architectural Drawings, all joist members including bridging shall receive the manufacturer's standard primer. General Contractor shall apply touch up paint as needed in the field.

ROOF DECK

- RD-1 Roof deck shall be 1.5" deep 22 gage wide rib galvanized metal deck type 1.5B22 as manufactured by Vulcraft or approved equal. Deck shall conform to SDI standards and shall have the following properties:

lp = 0.155 IN4/FT  
ln = 0.183 IN4/FT  
Sp = 0.186 IN3/FT  
Sn = 0.192 IN3/FT  
Fy = 33 K.S.I.

Minimum steel thickness before coating = 0.0295 in.

- RD-2 Lap ends of deck 3" at supports. Attach Roof Deck to supports in accordance with the Typical Detail on the plans. Deck shall be galvanized G60.

SLABS ON FORM DECK CONSTRUCTION

- FD-1 Floor slabs shall be 3", 3000 PSI normal-weight concrete on 9/16" deep, 26 gage galvanized corrugated metal deck 0.6C26 as manufactured by Vulcraft or approved equal. Each deck sheet shall span over at least 4 supports. Deck shall conform to SDI Standards and shall have the following properties:

lp = 0.015 IN4/FT  
ln = 0.015 IN4/FT  
Sp = 0.043 IN3/FT  
Sn = 0.043 IN3/FT  
Fy = 60 K.S.I.

Floor deck shall be galvanized with a protective zinc coating conforming to ASTM A525 G90 class.

Reinforce slabs with 6" x 6" - W2.9 welded wire mesh flat sheets only lapped one mesh plus 2" at ends and sides.

- FD-2 Attach floor deck to supports with 5/8" diameter puddle welds in each flute made through the manufacturer's standard weld washers and with #10 TEK screws at 24-inch centers at sidelaps. Lap corrugated metal deck 3" at ends and sides of sheet.

LIGHT GAGE METAL STUD FRAMING

- LG-1 Information provided in these structural notes is a brief summary of construction requirements. All construction is to be in full and complete compliance with project Specifications.

- LG-2 Structural drawings show assumed locations for all connections of light-gage framing systems to the building structure. The P.E. sealed metal stud shop drawings shall indicate the proposed connection locations and the Contractor shall notify the design team of any conditions that do not comply with the assumed locations shown on the structural drawings.

- LG-3 P.E. sealed shop drawings shall illustrate all stud and track sizes, connections, bridging and all supplemental framing required for the complete installation of the light-gage metal stud framing systems.

INSPECTION BY THE TESTING LAB

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

- 1. Subgrade and Select Fill Pad: The prepared subgrade and each lift of select fill material shall be tested, evaluated and reworked as necessary until approved by the Testing Lab prior to placement of additional lifts. Refer to the geotechnical report for the frequency of tests.
2. Concrete: During the taking of test specimens and placing of reinforced concrete.
3. Bolts Installed in Concrete: Prior to and during the placement of concrete around bolts.
4. Reinforcing Steel: Inspect all rebar prior to placing concrete.
5. Roof Deck: Inspect all welds, screws, and attachment pattern for conformance to details.
6. Field Welds: Inspect all field welds.
7. Roofing System: The installation of the roofing system must be inspected by the Testing Lab to be in conformance with the approved shop drawings submitted by the General Contractor.

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

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

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

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

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

APPLICABILITY OF TYPICAL DETAILS

- TD-1 Typical Details shall apply to ALL such situations and conditions which are similar to the condition shown on the detail or verbally described in the title of the detail or notes on the detail.

- TD-2 Typical Details shall apply regardless of whether or not the detail section mark is cut on the plans.

MISCELLANEOUS

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

- M-2 The Contractor shall compare Structural sections with Architectural sections and report any discrepancy to the architect prior to fabrication or installing structural members.

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

- M-4 Shop drawings shall be submitted for all structural items including concrete mix design, rebar, epoxy, structural steel, steel joists, metal roof deck, pre-engineered canopies, pre-engineered spire, and P.E. sealed light-gage metal studs.

The Contractor must submit all shop drawings for review a minimum of ten (10) working days prior to their due date back to the supplier. Failure to do so will be the responsibility of the Contractor.

SITE OBSERVATION BY THE STRUCTURAL ENGINEER

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

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

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

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

REPRODUCTION NOTE

- R-1 The use of reproductions of the contract drawings by any contractor, subcontractor, erector, fabricator, or material supplier in lieu of preparation of shop drawings signifies his acceptance of all information shown hereon as correct, and obligates himself to any job expense, real or implied, arising due to any errors that may occur hereon.



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The Contractor shall compare Structural sections with Architectural sections and report any discrepancy to the architect prior to fabrication or installing structural members.

The Contractor must submit all shop drawings for review a minimum of ten (10) working days prior to their due date back to the supplier. Failure to do so will be the responsibility of the Contractor.

SITE OBSERVATION BY THE STRUCTURAL ENGINEER

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

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

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

Do not cover up structural framing until it has been reviewed by the Engineer.

REPRODUCTION NOTE

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DIOCESE OF VICTORIA  
HOUSTON, TX

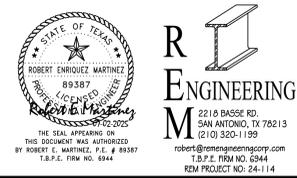
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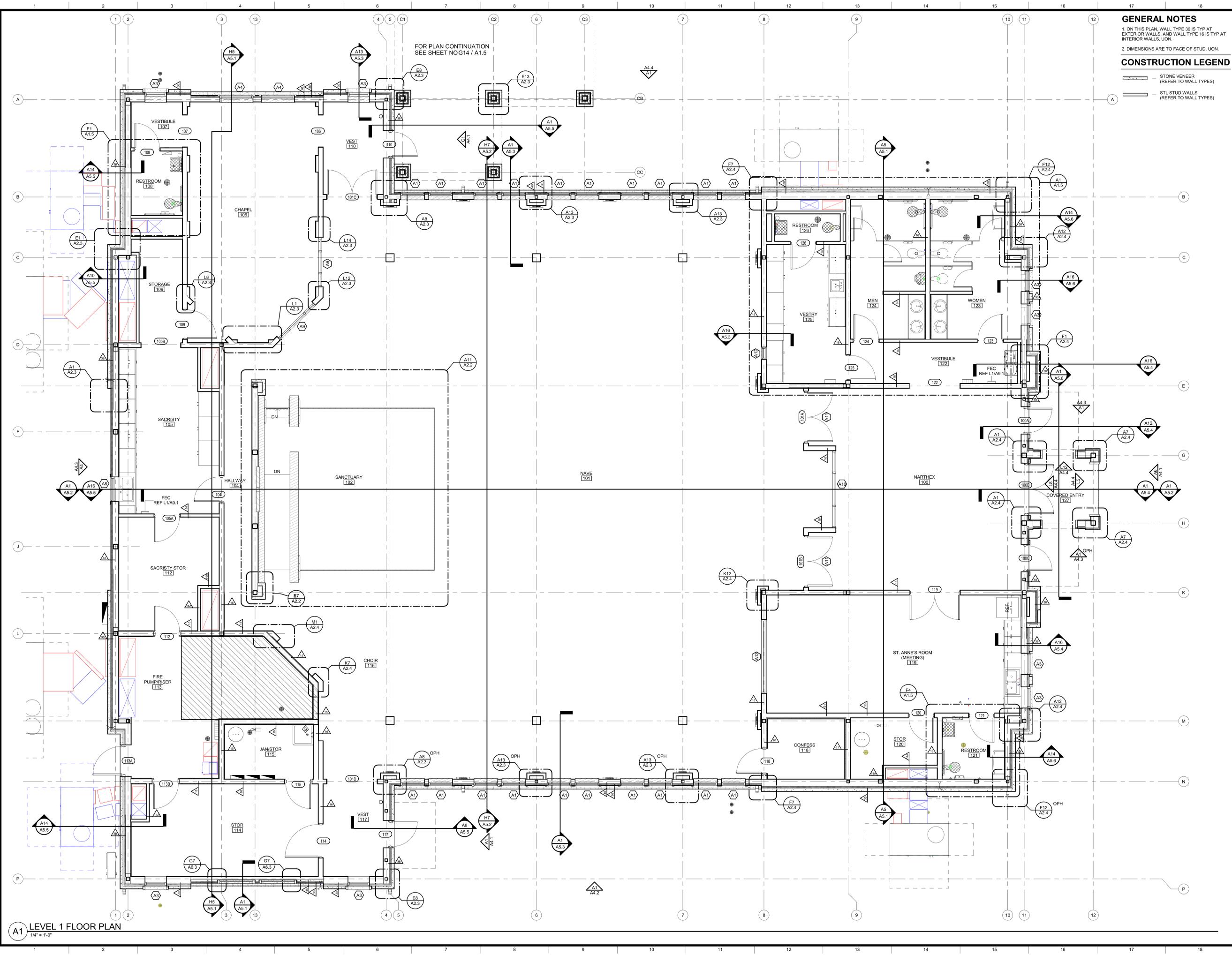
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GENERAL NOTES

SHEET NUMBER  
S4-1



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robert@remengineering.com  
13 P.E. FIRM NO. 6344  
R2M PROJECT NO. 24-114

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FOR PLAN CONTINUATION  
SEE SHEET NO G14 / A1.5

**GENERAL NOTES**  
1. ON THIS PLAN, WALL TYPE 36 IS TYP AT EXTERIOR WALLS, AND WALL TYPE 16 IS TYP AT INTERIOR WALLS, UON.  
2. DIMENSIONS ARE TO FACE OF STUD, UON.

**CONSTRUCTION LEGEND**

- STONE VENEER (REFER TO WALL TYPES)
- STL STUD WALLS (REFER TO WALL TYPES)

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REGISTERED ARCHITECT  
REGISTRATION NO. 22147  
STATE OF TEXAS

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**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
**DIocese of Victoria**  
HOUSTON, TX

DATE ISSUED:  
**07-02-2025**

PROJECT NUMBER:  
1024-0623

PLAN NORTH / TRUE NORTH  
SHEET NAME  
**FLOOR PLAN**

SHEET NUMBER  
**A1.1**

**A1 LEVEL 1 FLOOR PLAN**  
1/4" = 1'-0"

FOR PLAN CONTINUATION  
SEE SHEET NO G14 / A1.5

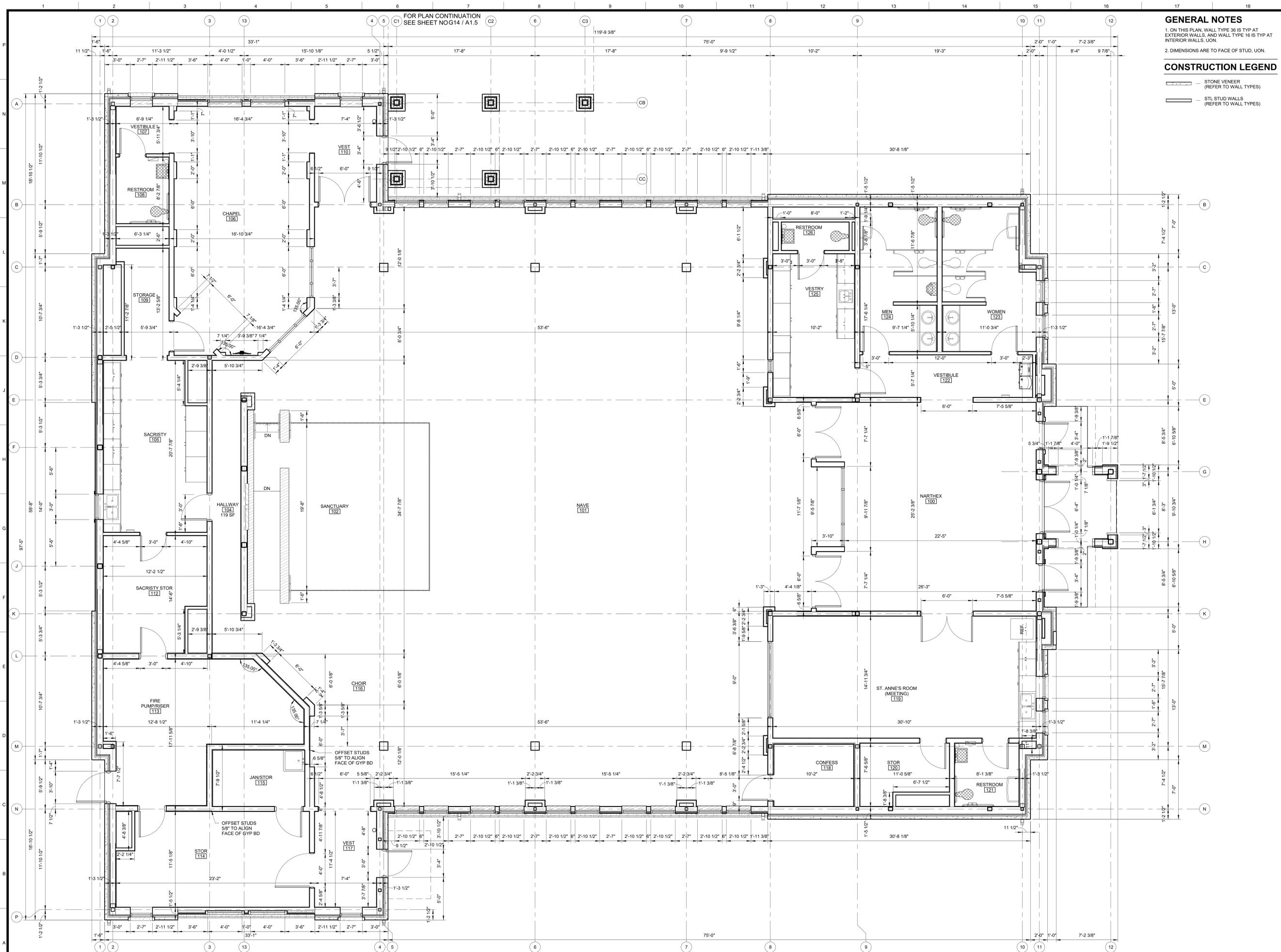
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1. ON THIS PLAN, WALL TYPE 36 IS TYP AT EXTERIOR WALLS, AND WALL TYPE 16 IS TYP AT INTERIOR WALLS, UON.  
2. DIMENSIONS ARE TO FACE OF STUD, UON.

**CONSTRUCTION LEGEND**  
— STONE VENEER (REFER TO WALL TYPES)  
— STL STUD WALLS (REFER TO WALL TYPES)

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**A1 LEVEL 1 DIMENSION PLAN**  
1/4" = 1'-0"

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HOUSTON, TX

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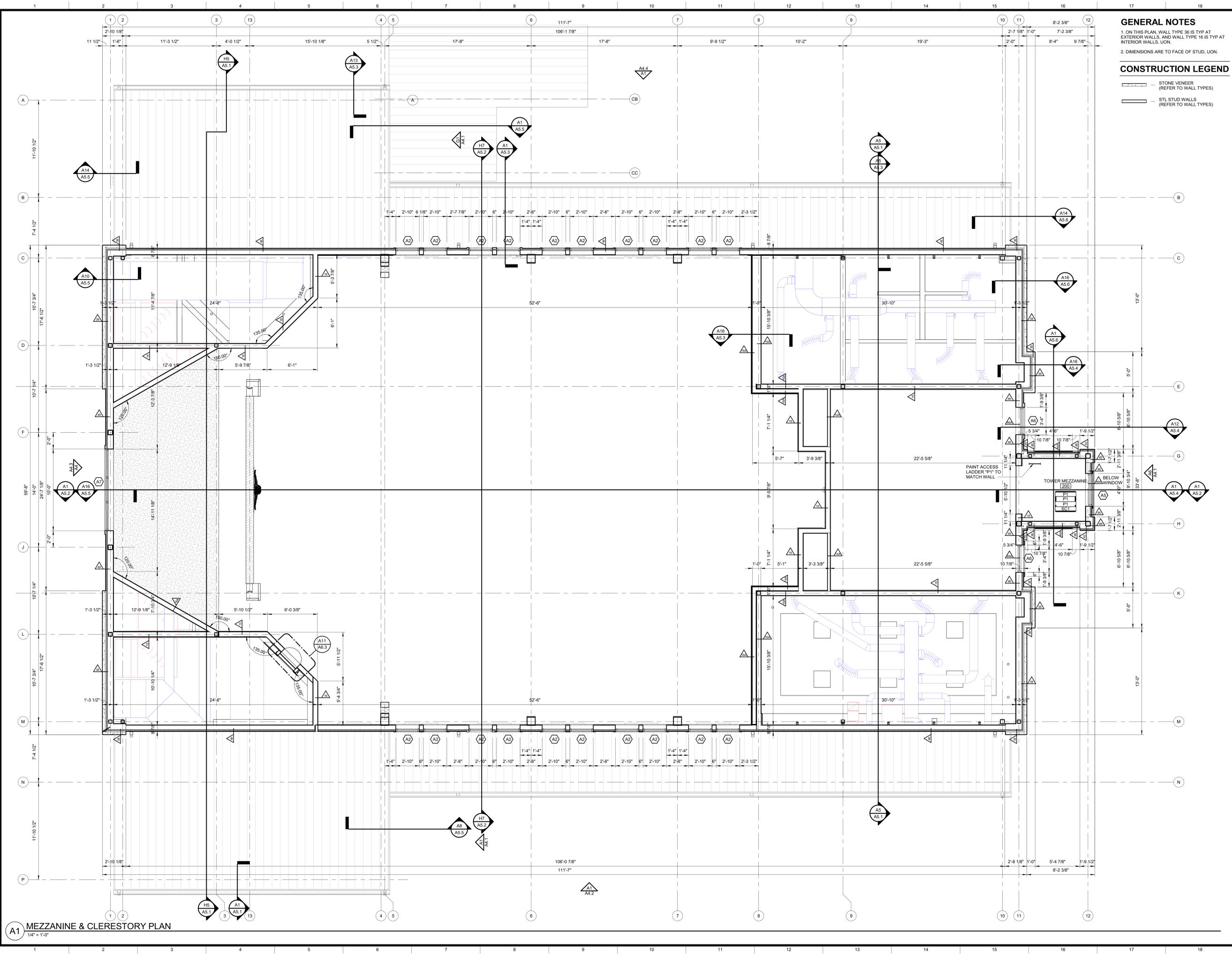
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SHEET NAME  
**DIMENSION PLAN**

SHEET NUMBER  
**A1.2**

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**GENERAL NOTES**  
1. ON THIS PLAN, WALL TYPE 38 IS TYP AT EXTERIOR WALLS, AND WALL TYPE 16 IS TYP AT INTERIOR WALLS, UON.  
2. DIMENSIONS ARE TO FACE OF STUD, UON.

**CONSTRUCTION LEGEND**

- STONE VENEER (REFER TO WALL TYPES)
- STL STUD WALLS (REFER TO WALL TYPES)

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SHEET NAME  
**MEZZANINE & CLERESTORY PLAN**

SHEET NUMBER  
**A1.3**

**A1** MEZZANINE & CLERESTORY PLAN  
1/4" = 1'-0"

FOR PLAN CONTINUATION  
SEE SHEET NO. A14 / A1.5

**ROOF LEGEND**

-  ARCHITECTURAL STANDING SEAM MTL ROOFING - MR1
-  1:12 ROOF SLOPE DIRECTION (1/4\"/>

**GENERAL ROOF NOTES:**

1. FOR TYPICAL ROOF PENETRATIONS AND PIPE SUPPORTS DETAILS REFER TO SHEET A6.1
2. REFER MEP DOCUMENTS FOR ROOFTOP EQUIPMENT NOT SHOWN. MECHANICAL, ELECTRICAL AND PLUMBING ROOF EQUIPMENT DEPICTED ON THIS SHEET IS FOR GENERAL ARCHITECTURAL INFORMATION ONLY. REFER TO THE MEP DOCUMENTS FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
3. EXPOSED METAL FLASHING/TRIM PIECES ARE TO BE PREFIN GALV STL. REF EXT ELVES FOR COLOR. PAINT EXPOSED METAL FLASHING/TRIM PIECES THAT ARE NOT PREFIN. AS WELL AS ALL EXPOSED MISC STL PIECES. REFER COLOR SCHEDULE AND NOTES, SHEET A6.0.
4. GUTTERS SHALL BE PREFINISHED GALV STL (GUTTER SIZES PER ROOF LEGEND). REF EXT ELVES FOR COLOR. PROVIDE PNT 1/4\"/>



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DIOCESE OF VICTORIA**

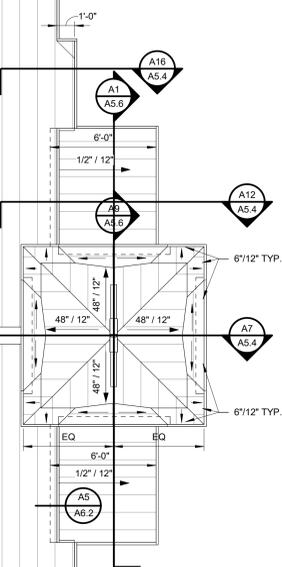
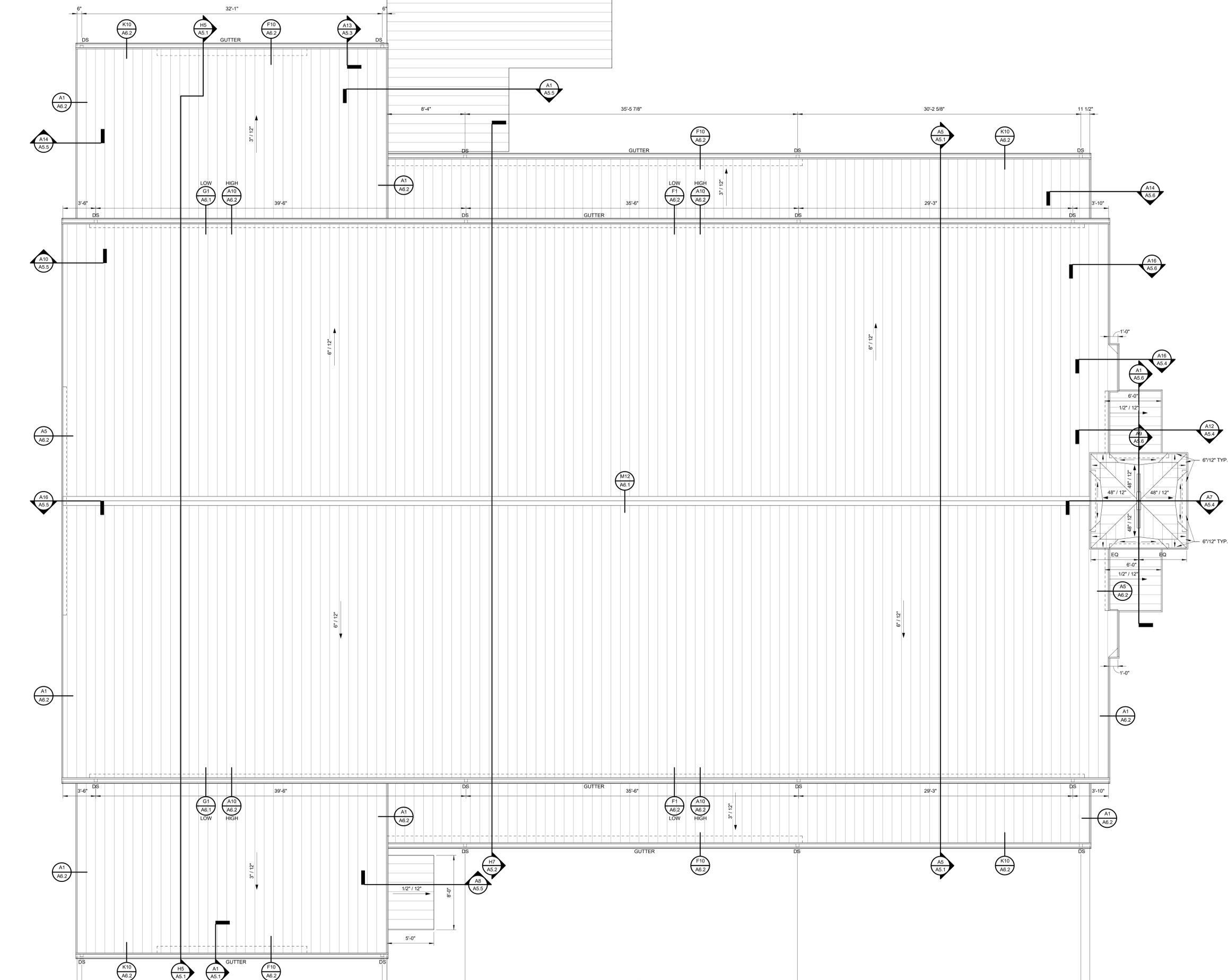
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SHEET NAME  
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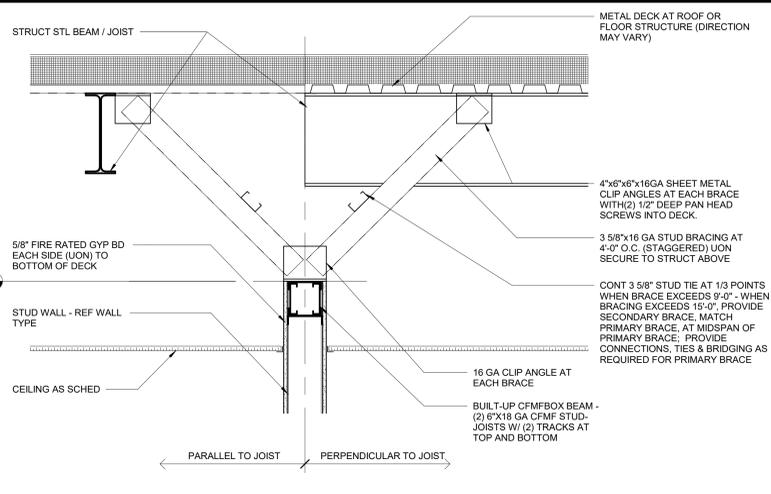
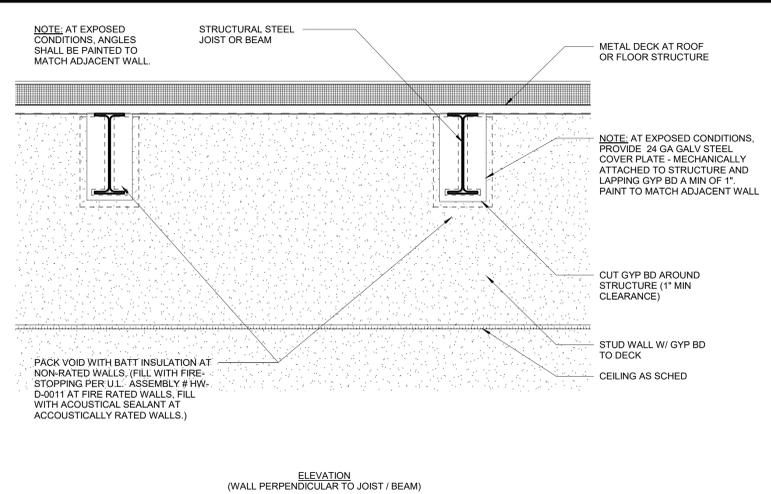
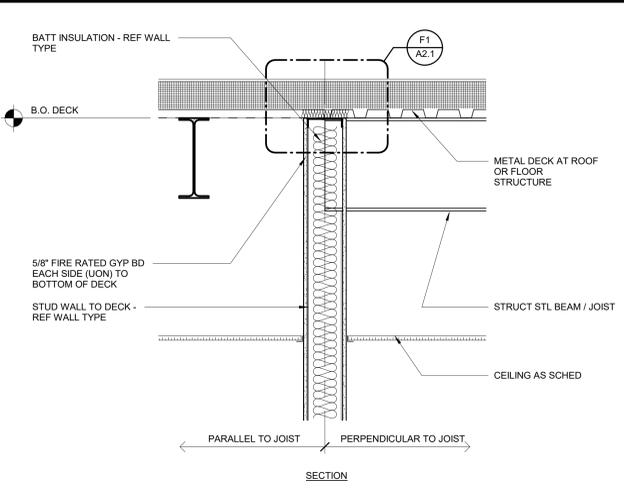
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**A1.4**



**A1** ROOF PLAN  
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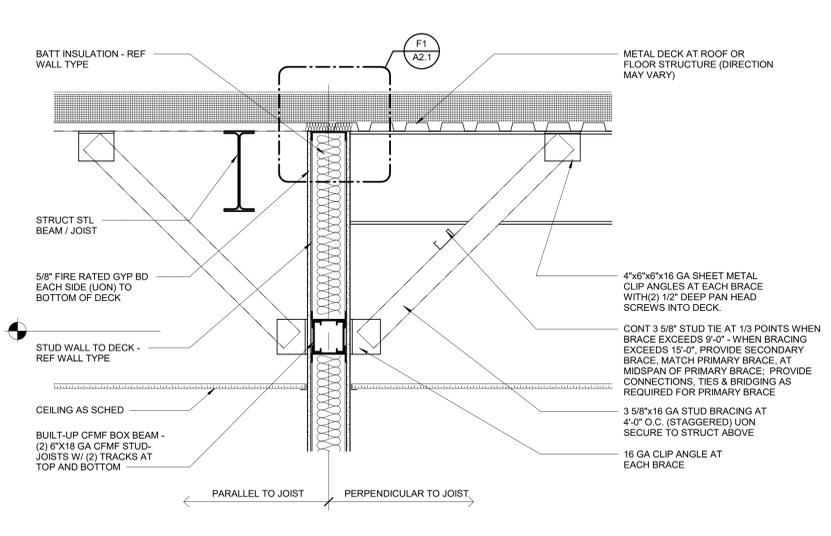
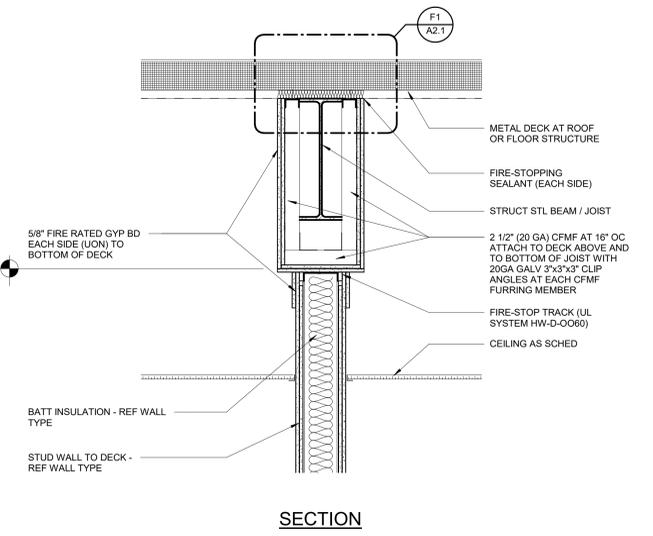
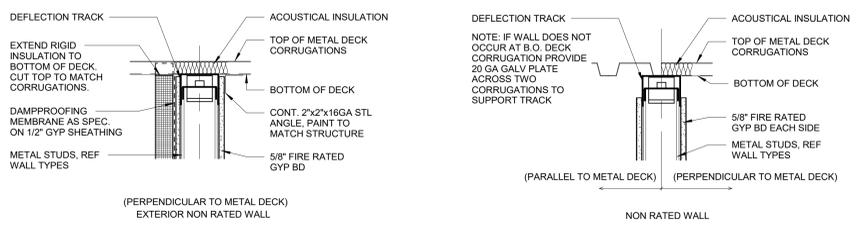
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**L1** WALL TO DECK DETAILS  
 1" = 1'-0"

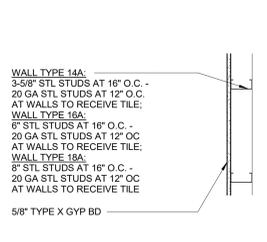
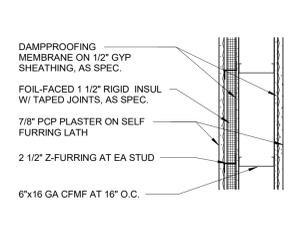
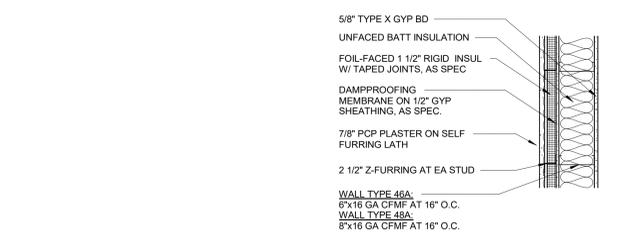
**L12** WALL TO DECK DETAILS  
 1" = 1'-0"



**F1** WALL TO DECK DETAILS  
 1 1/2" = 1'-0"

**F7** WALL TO DECK DETAILS  
 1" = 1'-0"

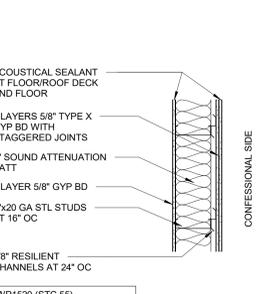
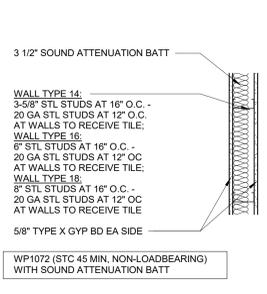
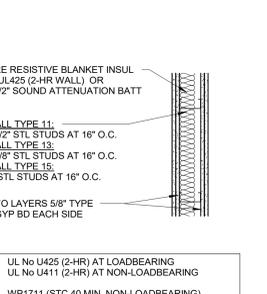
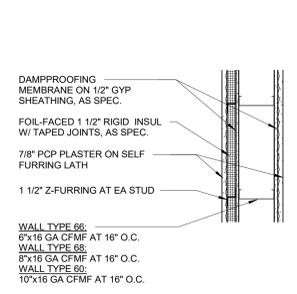
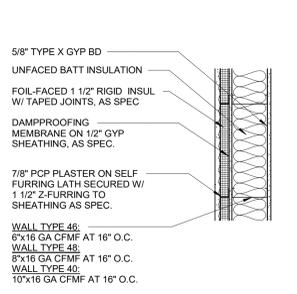
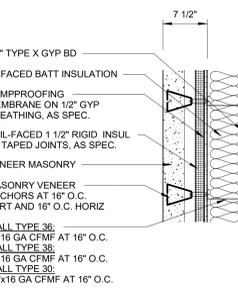
**F13** WALL TO DECK DETAILS  
 1" = 1'-0"



**EXTERIOR WALL** 46A 48A

**EXTERIOR WALL** 66A

**INTERIOR WALL** 14A 16A 18A



**EXTERIOR WALL** 36 38 30

**EXTERIOR WALL** 46 48 40

**EXTERIOR WALL** 66 68 60

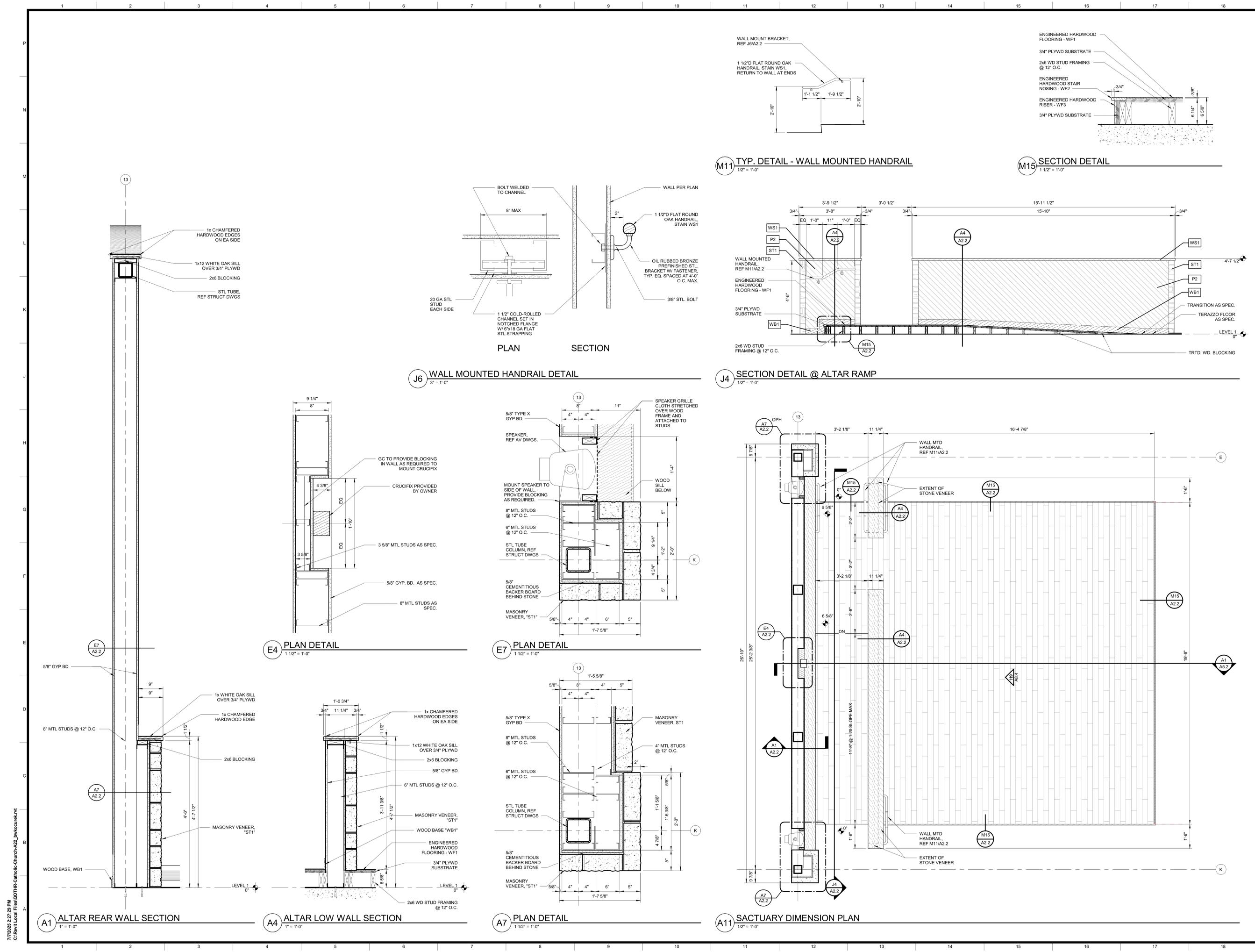
**INTERIOR WALL** 11 13 15

**INTERIOR WALL** 14 16 18

**ACOUSTIC WALL** 61

**A1** WALL TYPES  
 1" = 1'-0"

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7/7/2025 2:27:29 PM  
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**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
**DIocese of Victoria**  
 HOUSTON, TX  
 2025 UNLIMITED ACCESS ASSOCIATES

DATE ISSUED:  
**07-02-2025**  
 PROJECT NUMBER:  
 1024-0623  
 PLAN NORTH TRUE NORTH  
 SHEET NAME  
**ALTAR PLANS & DETAILS**  
 SHEET NUMBER  
**A2.2**





**M1 PLAN DETAIL**  
 1 1/2" = 1'-0"



**K7 PLAN DETAIL**  
 1 1/2" = 1'-0"



**K12 PLAN DETAIL**  
 1 1/2" = 1'-0"



**F1 PLAN DETAIL**  
 1 1/2" = 1'-0"



**F7 PLAN DETAIL**  
 1 1/2" = 1'-0"



**F12 PLAN DETAIL**  
 1 1/2" = 1'-0"



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



**A7 PLAN DETAIL**  
 1 1/2" = 1'-0"

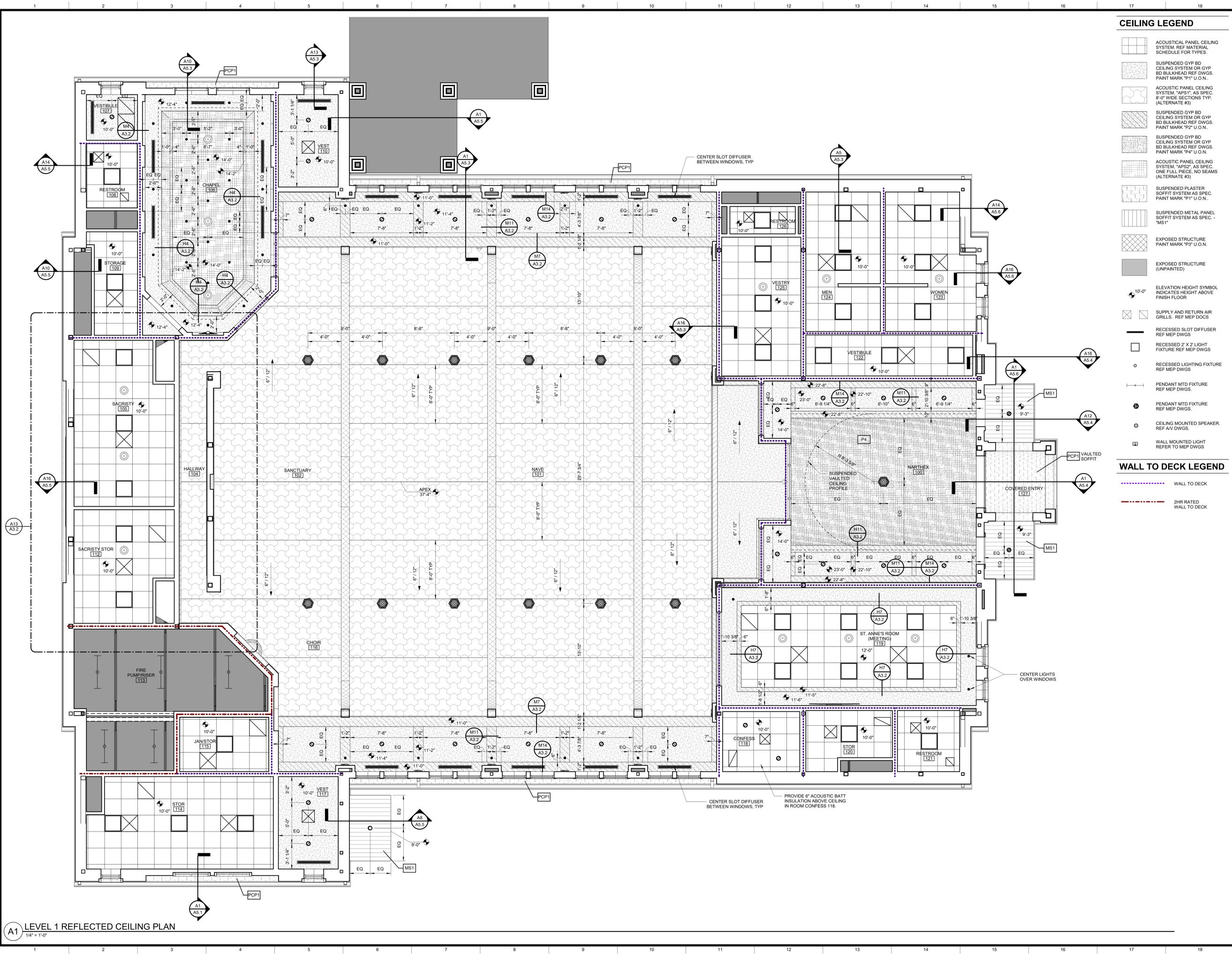


**A12 PLAN DETAIL**  
 1 1/2" = 1'-0"



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**CEILING LEGEND**

- ACoustical PANEL CEILING SYSTEM, REF MATERIAL SCHEDULE FOR TYPES.
- SUSPENDED GYP BD CEILING SYSTEM OR GYP BD BULKHEAD REF DWGS. PAINT MARK "P1" U.O.N.
- ACoustical PANEL CEILING SYSTEM, "APS1", AS SPEC. 8'-0" WIDE SECTIONS TYP. (ALTERNATE #3)
- SUSPENDED GYP BD CEILING SYSTEM OR GYP BD BULKHEAD REF DWGS. PAINT MARK "P2" U.O.N.
- SUSPENDED GYP BD CEILING SYSTEM OR GYP BD BULKHEAD REF DWGS. PAINT MARK "P4" U.O.N.
- ACoustical PANEL CEILING SYSTEM, "APS2", AS SPEC. ONE FULL PIECE, NO SEAMS (ALTERNATE #3)
- SUSPENDED PLASTER SOFFIT SYSTEM AS SPEC. PAINT MARK "P1" U.O.N.
- SUSPENDED METAL PANEL SOFFIT SYSTEM AS SPEC. - "MS1"
- EXPOSED STRUCTURE PAINT MARK "P3" U.O.N.
- EXPOSED STRUCTURE (UNPAINTED)
- ELEVATION HEIGHT SYMBOL INDICATES HEIGHT ABOVE FINISH FLOOR
- SUPPLY AND RETURN AIR GRILLS. REF MEP DOCS
- RECESSED SLOT DIFFUSER REF MEP DWGS
- RECESSED 2' X 2' LIGHT FIXTURE REF MEP DWGS
- RECESSED LIGHTING FIXTURE REF MEP DWGS
- PENDANT MTD FIXTURE REF MEP DWGS
- PENDANT MTD FIXTURE REF MEP DWGS
- CEILING MOUNTED SPEAKER. REF AV DWGS.
- WALL MOUNTED LIGHT REFER TO MEP DWGS

**WALL TO DECK LEGEND**

- WALL TO DECK
- 2HR RATED WALL TO DECK

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 DIOCESE OF VICTORIA  
 HOUSTON, TX**

DATE ISSUED:  
**07-02-2025**

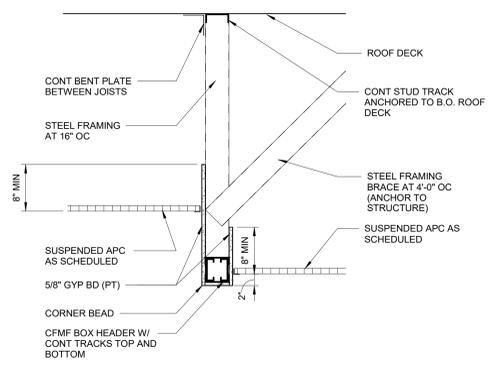
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 1024-0623

PLAN NORTH TRUE NORTH

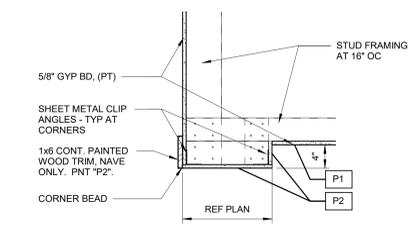
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**REFLECTED  
 CEILING PLAN**

SHEET NUMBER  
**A3.1**

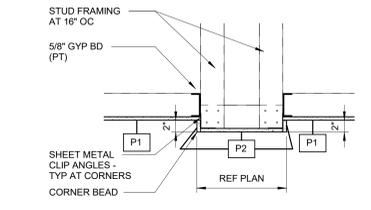
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 1/4" = 1'-0"



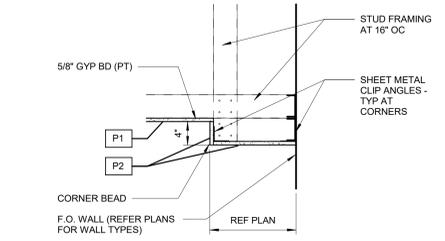
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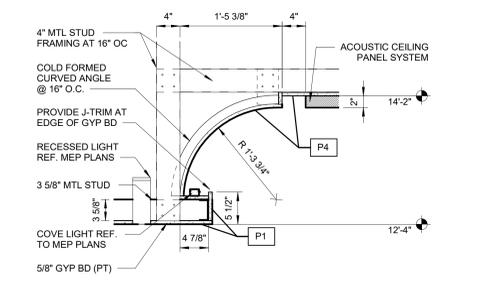
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1" = 1'-0"



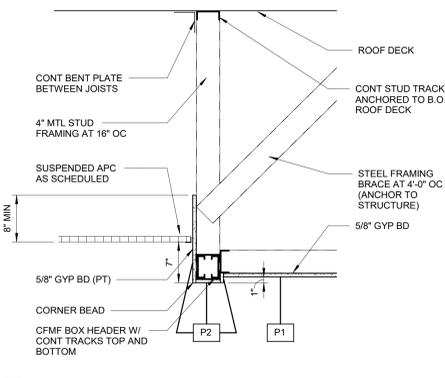
M11 CEILING DETAIL  
1" = 1'-0"



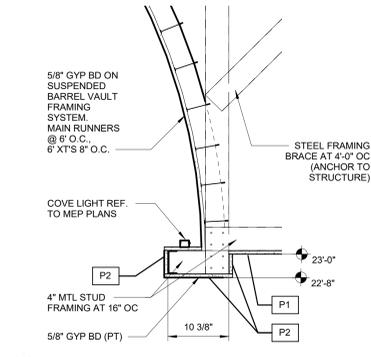
M14 CEILING DETAIL  
1" = 1'-0"



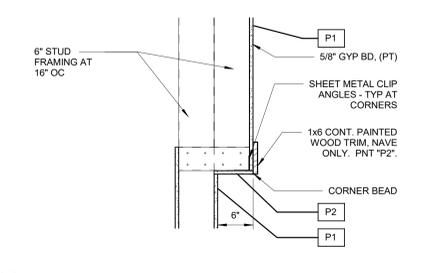
H4 CEILING DETAIL  
1" = 1'-0"



H7 CEILING DETAIL  
1" = 1'-0"

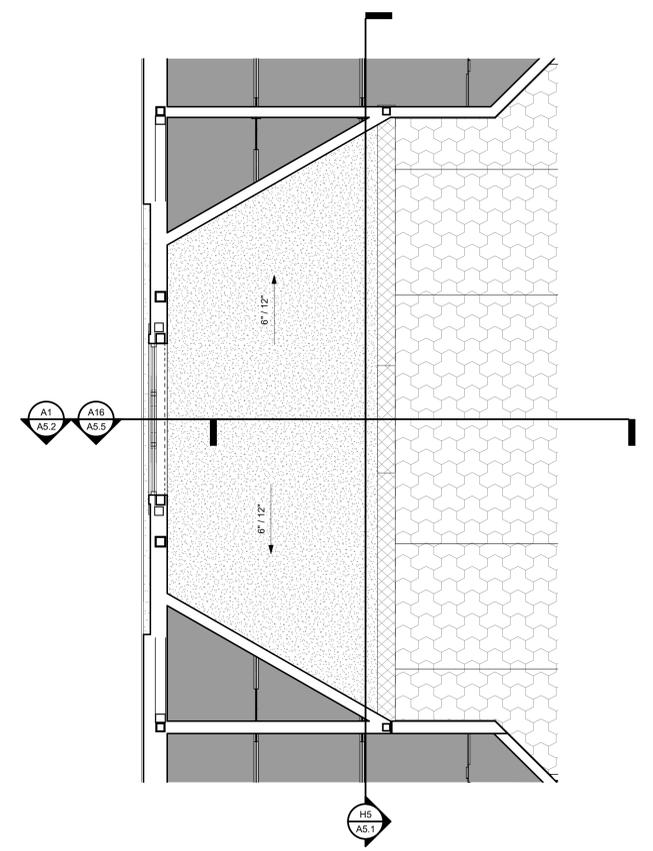


H11 CEILING DETAIL  
1" = 1'-0"



H14 CEILING DETAIL  
1" = 1'-0"

- ### CEILING LEGEND
- ACOUSTICAL PANEL CEILING SYSTEM. REF MATERIAL SCHEDULE FOR TYPES.
  - SUSPENDED GYP BD CEILING SYSTEM OR GYP BD BULKHEAD REF DWGS. PAINT MARK "P1" U.O.N.
  - ACOUSTIC PANEL CEILING SYSTEM, "APS1", AS SPEC. 8'-0" WIDE SECTIONS TYP. (ALTERNATE #3)
  - SUSPENDED GYP BD CEILING SYSTEM OR GYP BD BULKHEAD REF DWGS. PAINT MARK "P2" U.O.N.
  - SUSPENDED GYP BD CEILING SYSTEM OR GYP BD BULKHEAD REF DWGS. PAINT MARK "P4" U.O.N.
  - ACOUSTIC PANEL CEILING SYSTEM, "APS2", AS SPEC. ONE FULL PIECE, NO SEAMS (ALTERNATE #3)
  - SUSPENDED PLASTER SOFFIT SYSTEM AS SPEC. PAINT MARK "P1" U.O.N.
  - SUSPENDED METAL PANEL SOFFIT SYSTEM AS SPEC. - "MS1"
  - EXPOSED STRUCTURE PAINT MARK "P3" U.O.N.
  - EXPOSED STRUCTURE (UNPAINTED)
  - 10'-0" ELEVATION HEIGHT SYMBOL INDICATES HEIGHT ABOVE FINISH FLOOR
  - SUPPLY AND RETURN AIR GRILLS. REF MEP DWGS
  - RECESSED SLOT DIFFUSER REF MEP DWGS
  - RECESSED 2' X 2' LIGHT FIXTURE REF MEP DWGS
  - RECESSED LIGHTING FIXTURE REF MEP DWGS
  - PENDANT MTD FIXTURE REF MEP DWGS
  - PENDANT MTD FIXTURE REF MEP DWGS.
  - CEILING MOUNTED SPEAKER. REF AV DWGS.
  - WALL MOUNTED LIGHT REFER TO MEP DWGS
- ### WALL TO DECK LEGEND
- WALL TO DECK
  - 2HR RATED WALL TO DECK



A13 LEVEL 1 REFLECTED CEILING PLAN BEHIND ALTAR  
1/4" = 1'-0"

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22147  
7.2.25

QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH  
DIOCESE OF VICTORIA  
HOUSTON, TX

DATE ISSUED:  
07-02-2025

PROJECT NUMBER:  
1024-0623

PLAN NORTH TRUE NORTH

SHEET NAME  
CEILING DETAILS

SHEET NUMBER  
A3.2

**ELEVATION LEGEND**

- STONE - ST1 (RANDOM ASHLAR)
- CAST STONE - CS1
- PLASTER - PS1
- STANDING SEAM METAL ROOF - MR1
- LOUVER

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**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
**DIOCESE OF VICTORIA**  
 HOUSTON, TX

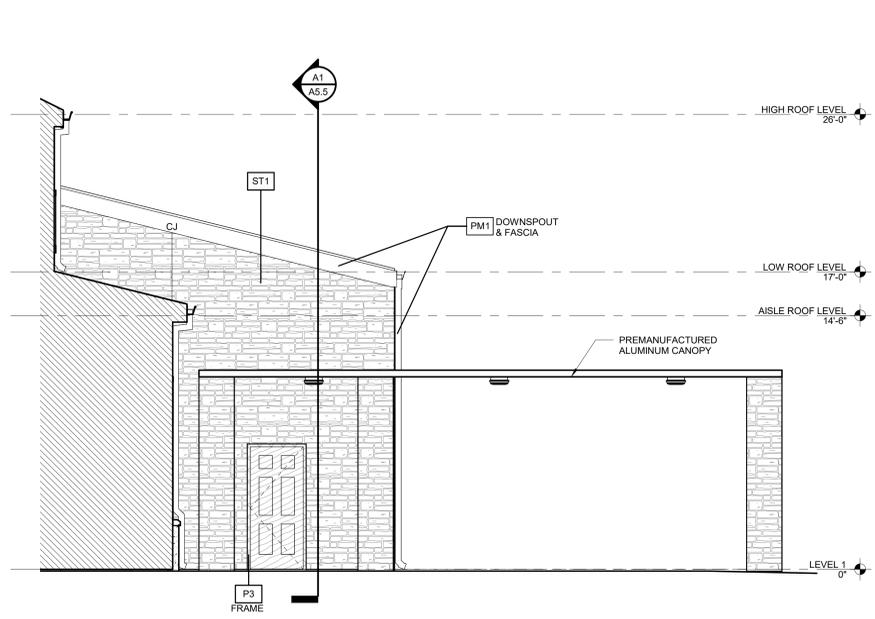
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PROJECT NUMBER:  
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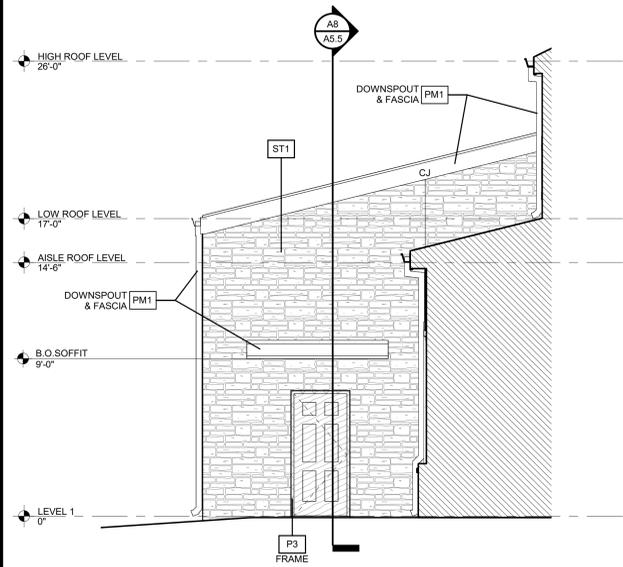
PLAN NORTH TRUE NORTH

SHEET NAME  
**EXTERIOR ELEVATIONS**

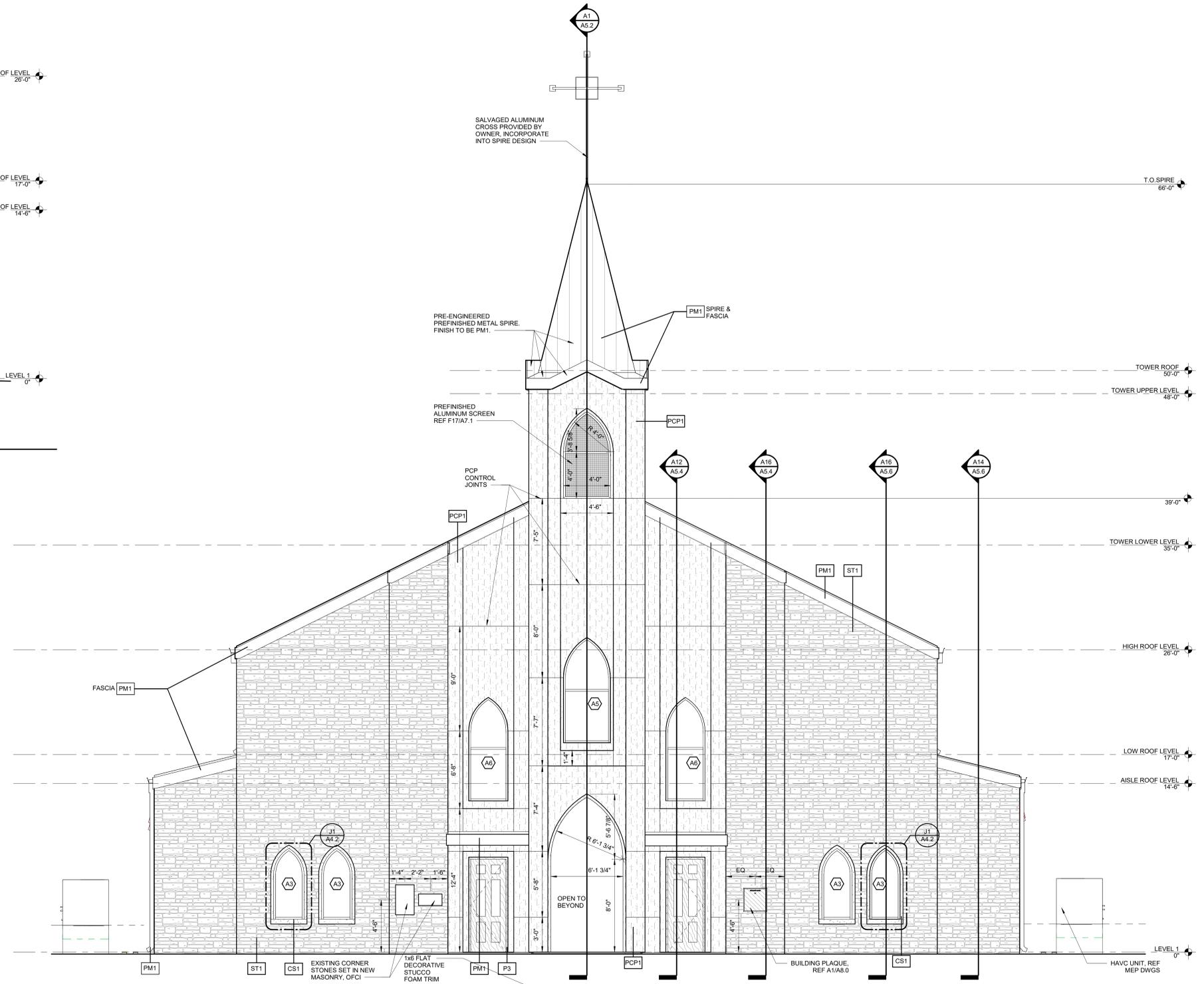
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**A4.1**



**G1 EAST EXTERIOR ELEVATION SOUTH**  
 1/4" = 1'-0"



**A1 EAST EXTERIOR ELEVATION NORTH**  
 1/4" = 1'-0"



**A6 EAST EXTERIOR ELEVATION**  
 1/4" = 1'-0"

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**ELEVATION LEGEND**

- STONE - ST1 (RANDOM ASHLAR)
- CAST STONE - CS1
- PLASTER - PS1
- STANDING SEAM METAL ROOF - MR1
- LOUVER

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**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
**DIocese of Victoria**  
 HOUSTON, TX

DATE ISSUED:  
**07-02-2025**

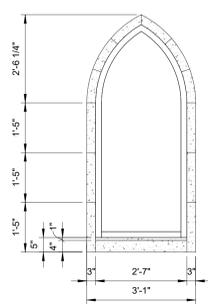
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PLAN NORTH  
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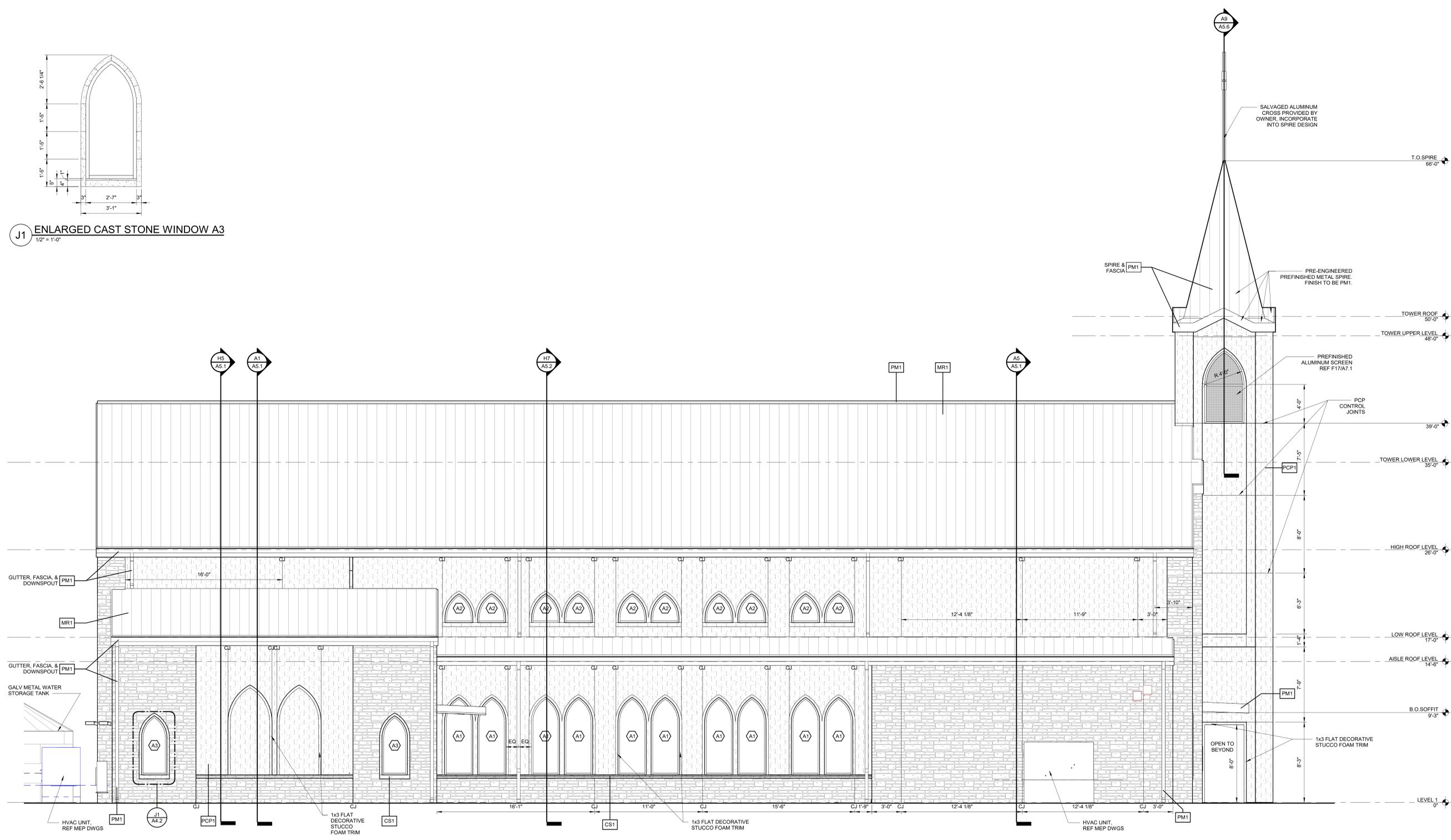
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**EXTERIOR ELEVATIONS**

SHEET NUMBER

**A4.2**



**J1 ENLARGED CAST STONE WINDOW A3**  
 1/2" = 1'-0"



**A1 SOUTH EXTERIOR ELEVATION**  
 1/4" = 1'-0"

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**ELEVATION LEGEND**

- STONE - ST1 (RANDOM ASHLAR)
- CAST STONE - CS1
- PLASTER - PS1
- STANDING SEAM METAL ROOF - MR1
- LOUVER

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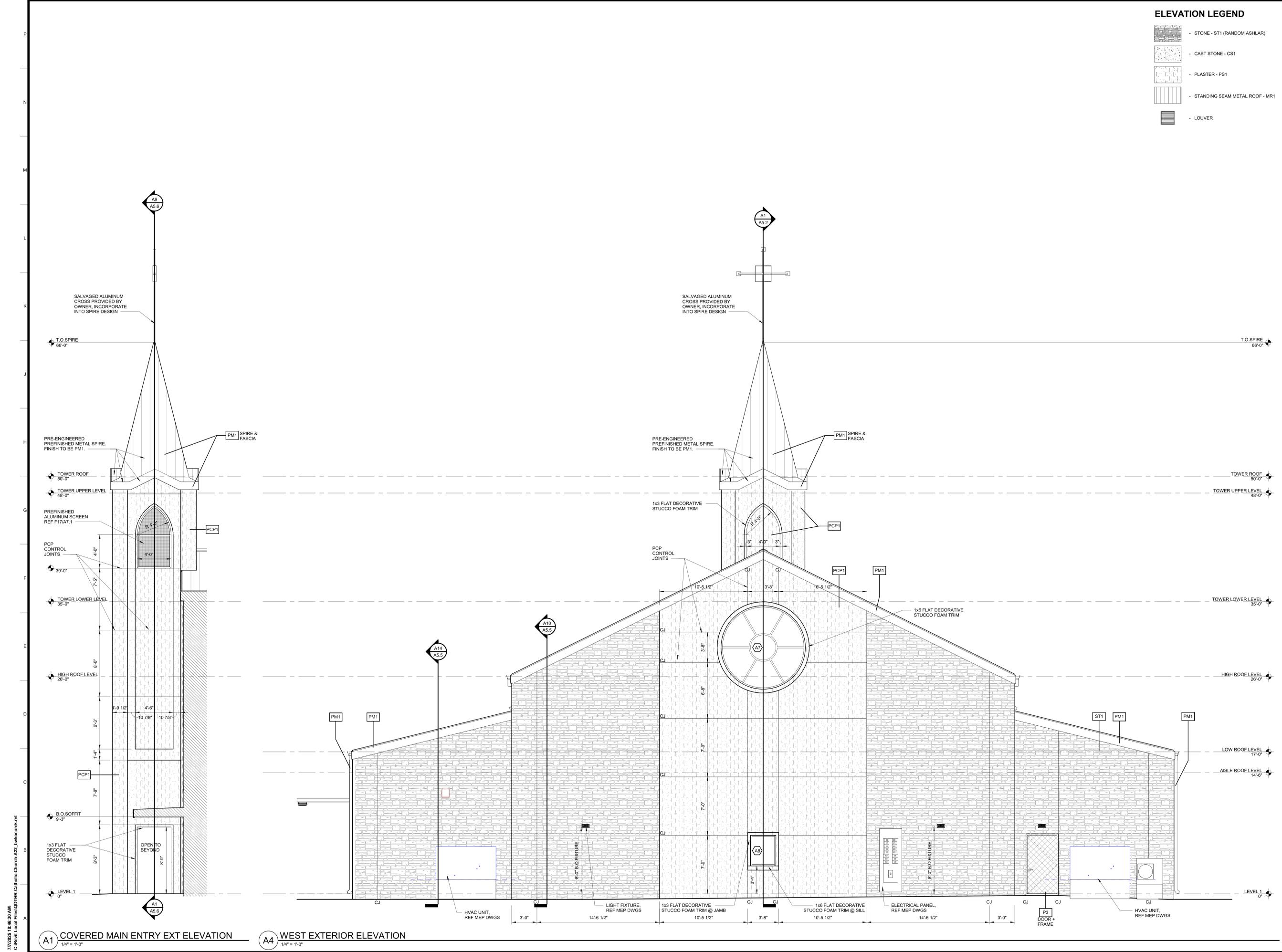
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PLAN NORTH TRUE NORTH

SHEET NAME  
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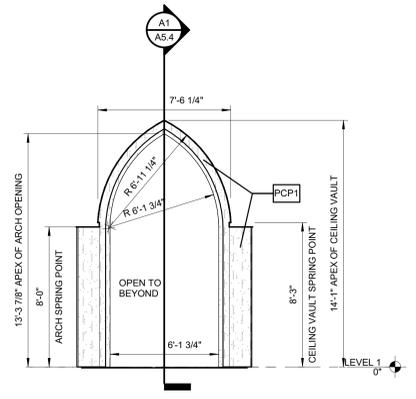
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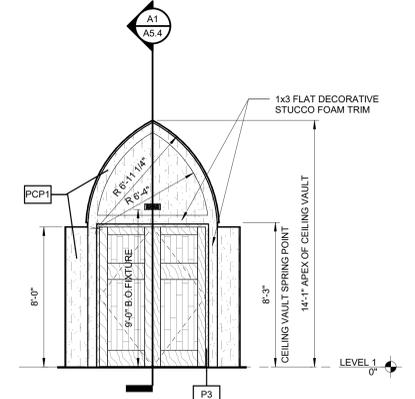
**A1 COVERED MAIN ENTRY EXT ELEVATION**  
 1/4" = 1'-0"

**A4 WEST EXTERIOR ELEVATION**  
 1/4" = 1'-0"

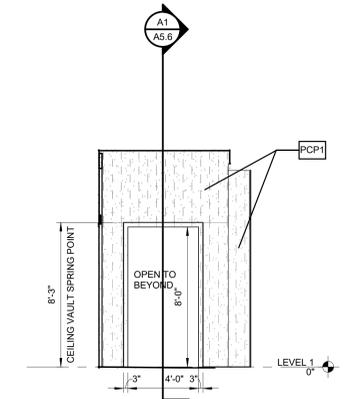
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L5 COVERED MAIN ENTRY WEST EXTERIOR ELEVATION  
1/4" = 1'-0"



L8 COVERED MAIN ENTRY EAST EXTERIOR ELEVATION  
1/4" = 1'-0"



L12 COVERED MAIN ENTRY EXTERIOR ELEVATION  
1/4" = 1'-0"

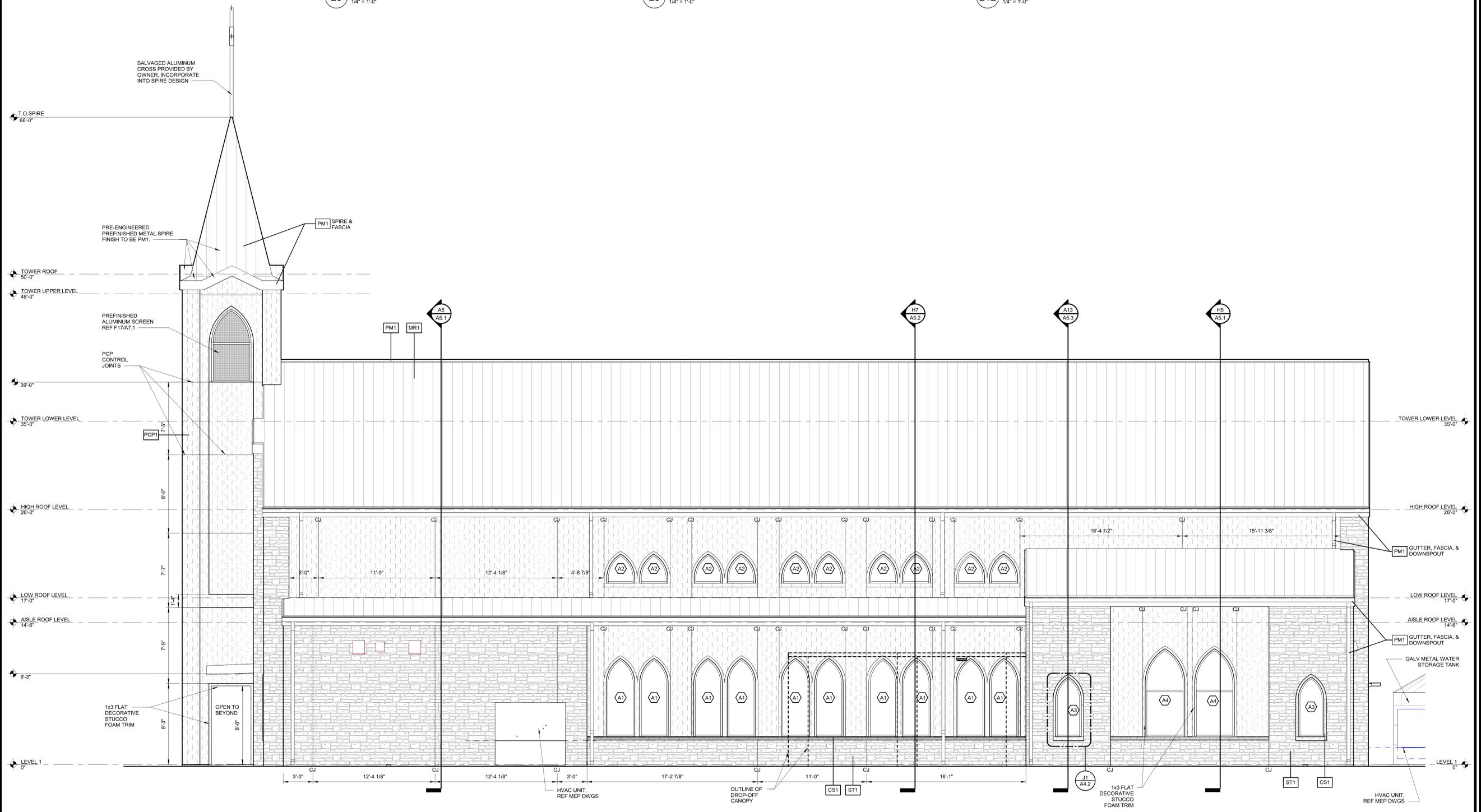
**ELEVATION LEGEND**

- STONE - ST1 (RANDOM ASHLAR)
- CAST STONE - CS1
- PLASTER - PS1
- STANDING SEAM METAL ROOF - MR1
- LOUVER

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A1 NORTH EXTERIOR ELEVATION  
1/4" = 1'-0"

**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
DIOCESE OF VICTORIA  
HOUSTON, TX

DATE ISSUED:  
**07-02-2025**

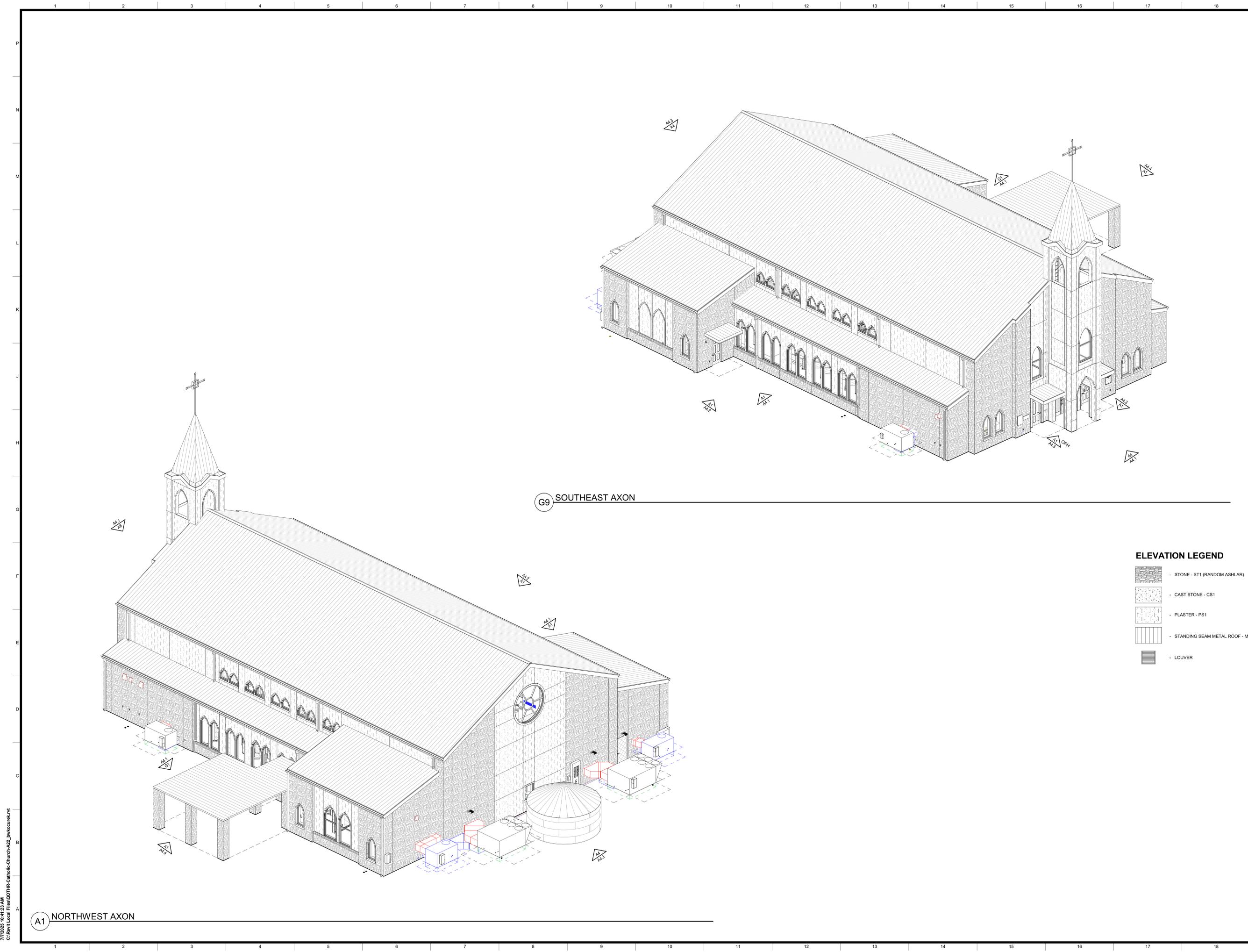
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1024-0623

PLAN NORTH TRUE NORTH

SHEET NAME  
**EXTERIOR ELEVATIONS**

SHEET NUMBER  
**A4.4**

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G9 SOUTHEAST AXON

A1 NORTHWEST AXON

**ELEVATION LEGEND**

	- STONE - ST1 (RANDOM ASHLAR)
	- CAST STONE - CS1
	- PLASTER - PS1
	- STANDING SEAM METAL ROOF - M1
	- LOUVER

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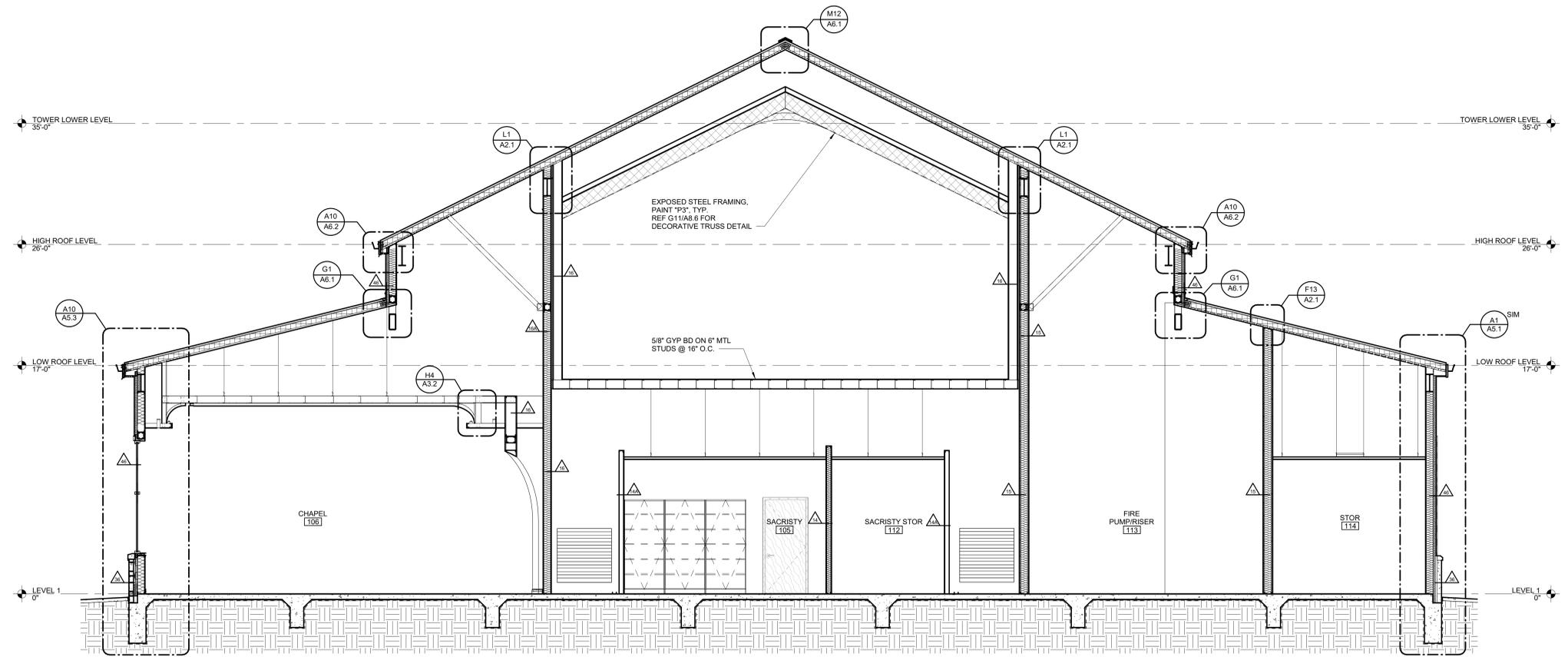
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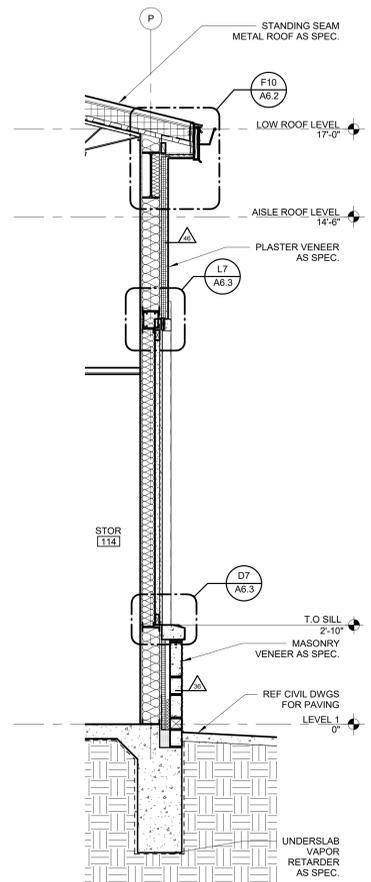
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SHEET NUMBER  
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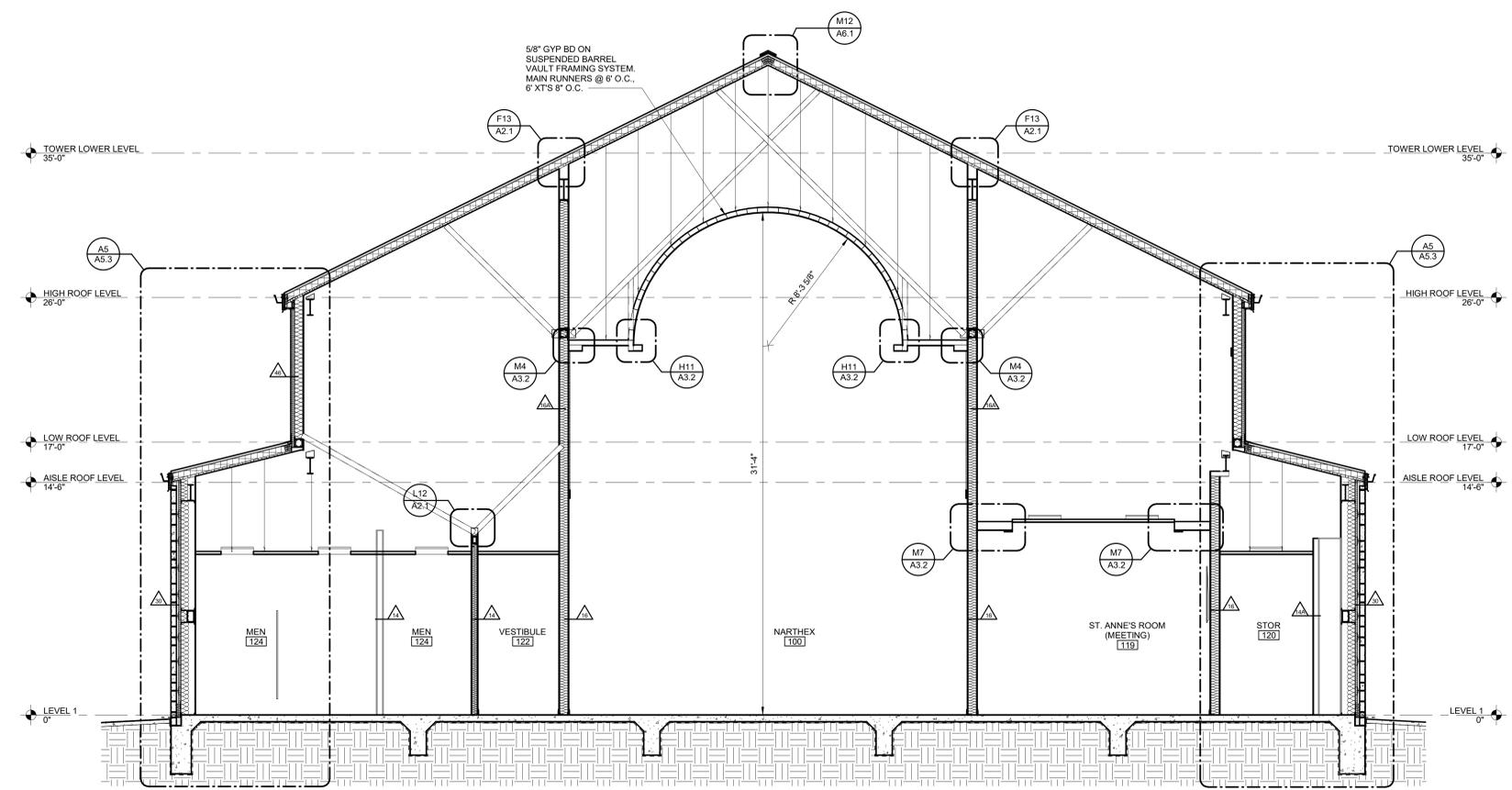
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**H5 BUILDING SECTION**  
 1/4" = 1'-0"

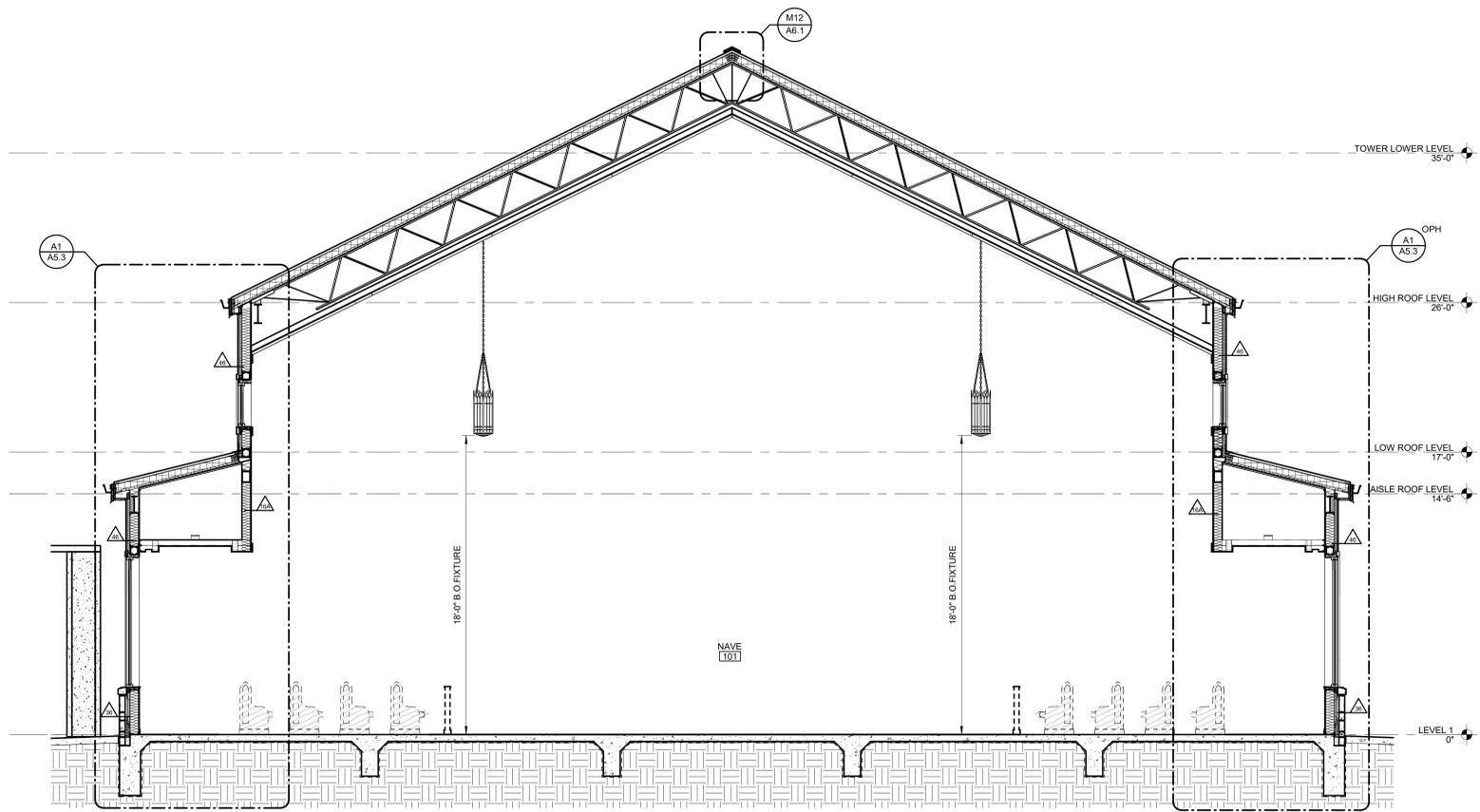


**A1 WALL SECTION**  
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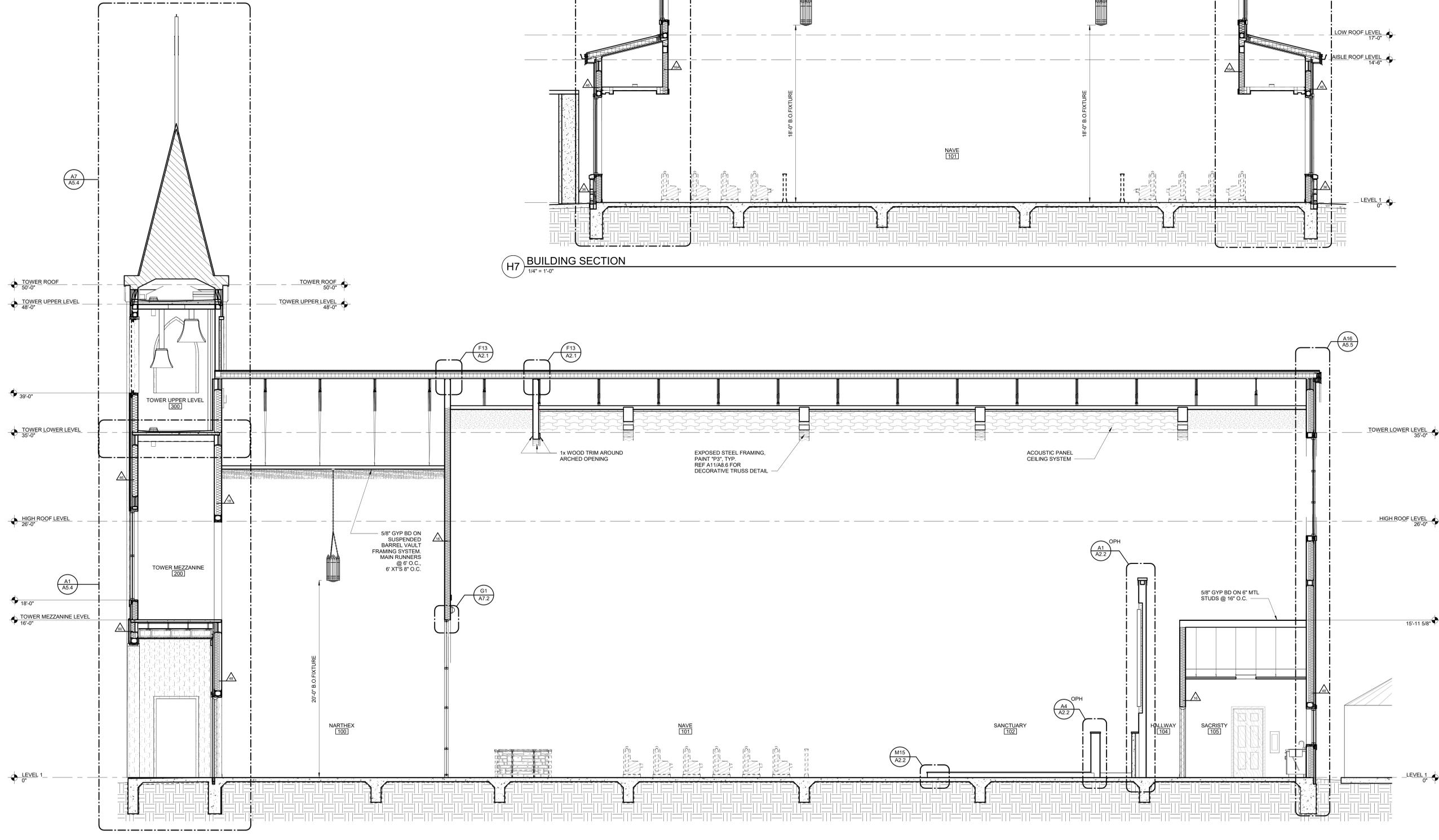


**A5 BUILDING SECTION**  
 1/4" = 1'-0"

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**H7 BUILDING SECTION**  
 1/4" = 1'-0"



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

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**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
**DIocese of Victoria**  
 HOUSTON, TX

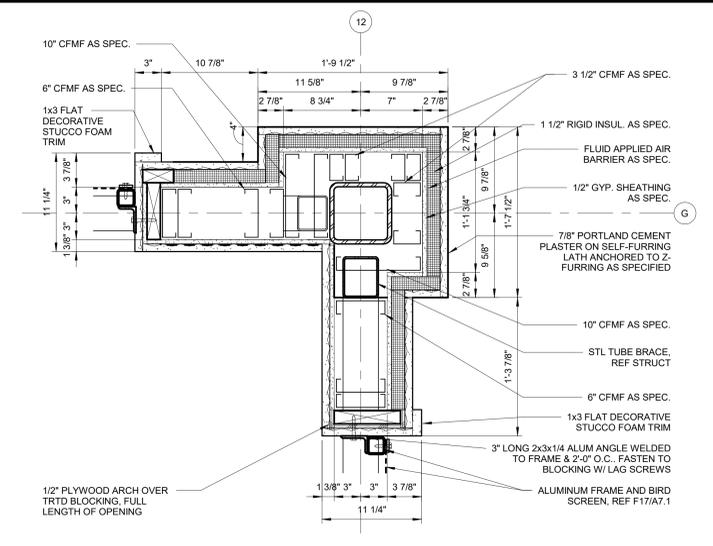
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**07-02-2025**

PROJECT NUMBER:  
 1024-0623

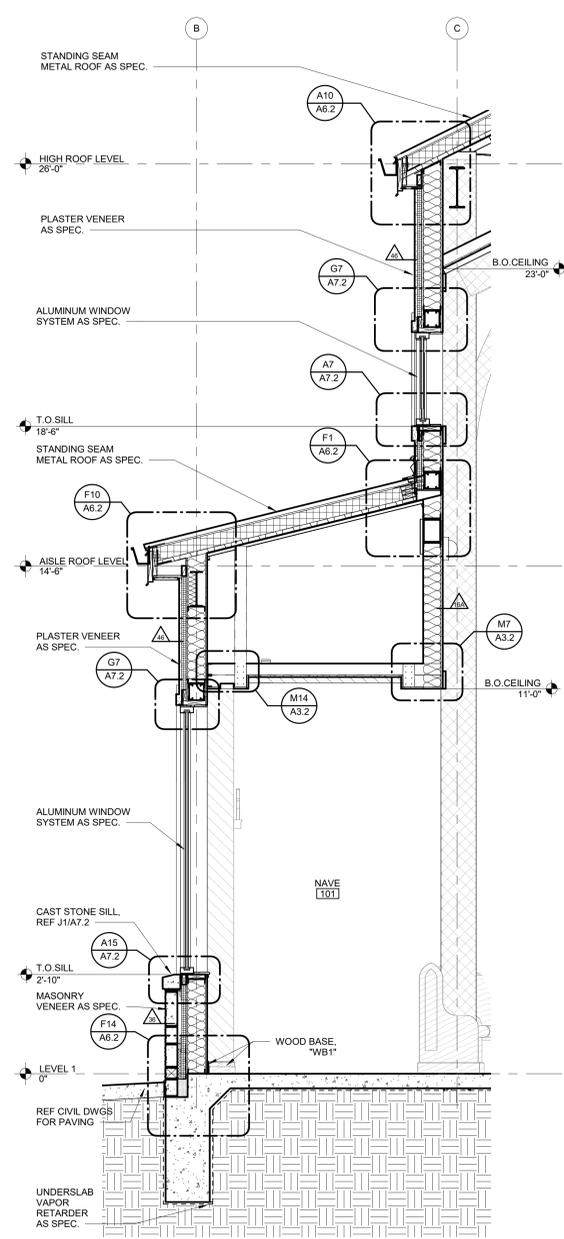
PLAN NORTH TRUE NORTH  
 SHEET NAME  
**WALL SECTIONS**

SHEET NUMBER

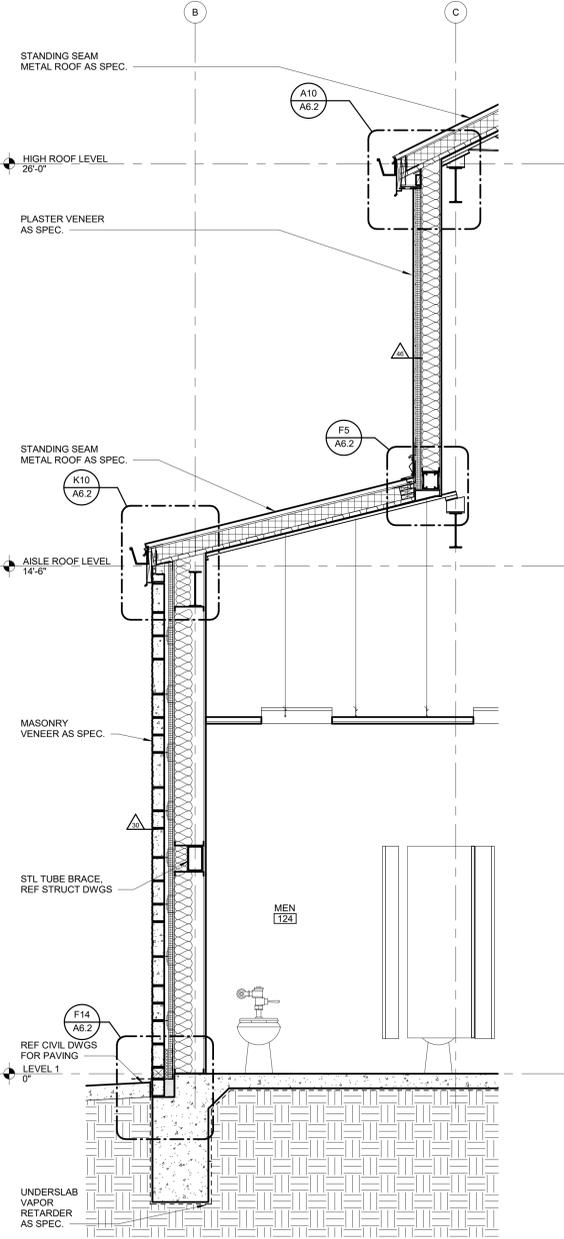
**A5.3**



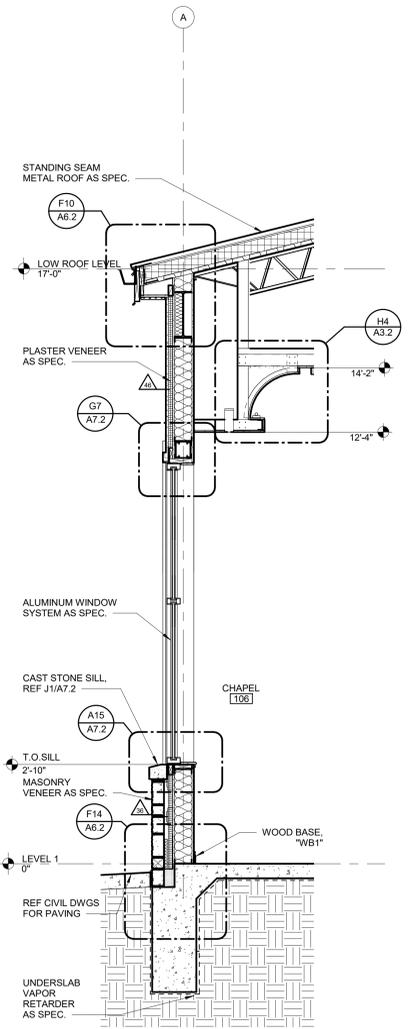
**K11** PLAN DETAIL  
 1/2" = 1'-0"



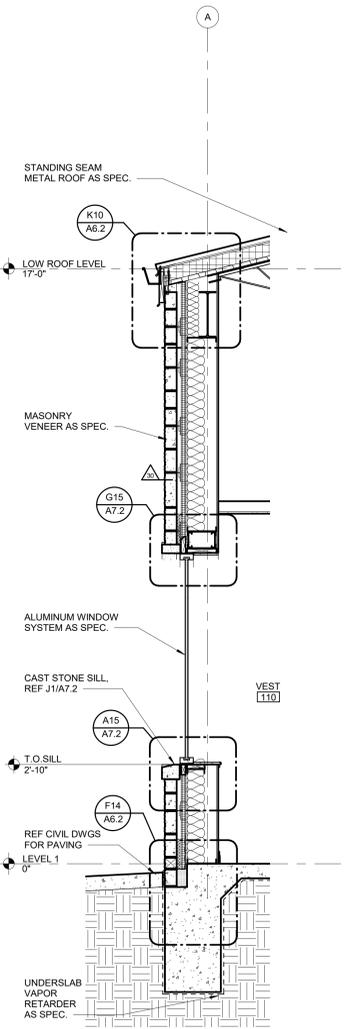
**A1** WALL SECTION  
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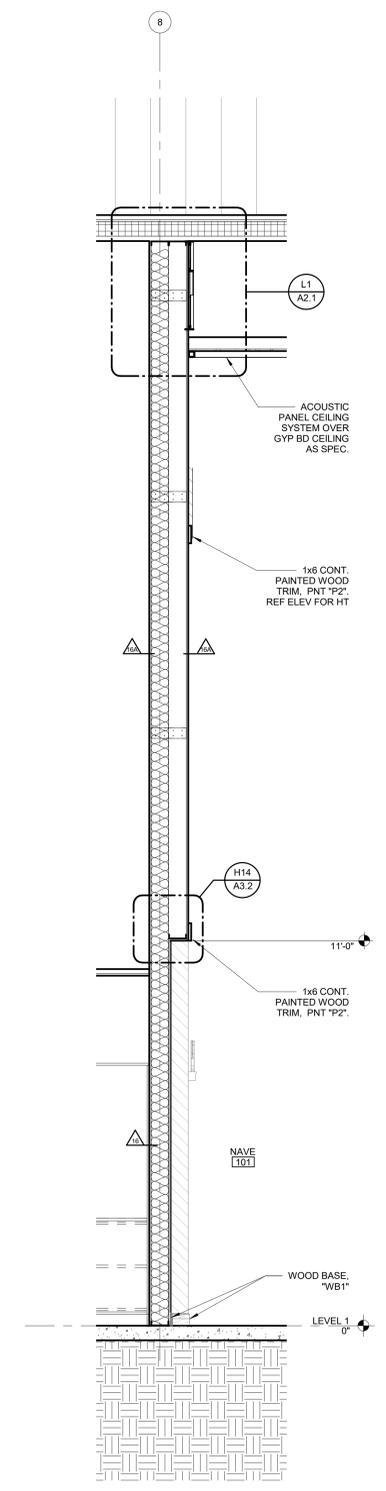
**A5** WALL SECTION  
 1/2" = 1'-0"



**A10** WALL SECTION  
 1/2" = 1'-0"



**A13** WALL SECTION  
 1/2" = 1'-0"



**A16** WALL SECTION  
 1/2" = 1'-0"

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**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
**DIocese of Victoria**  
 HOUSTON, TX

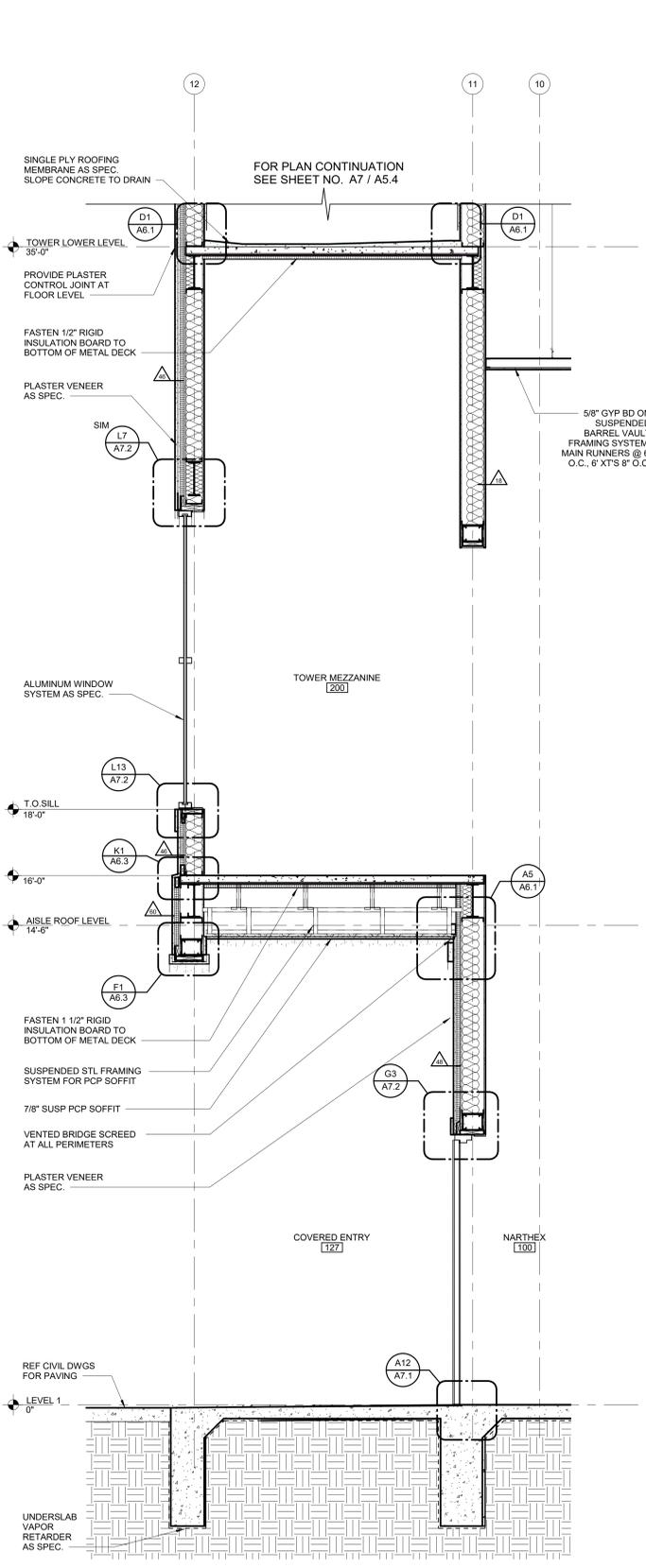
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PROJECT NUMBER:  
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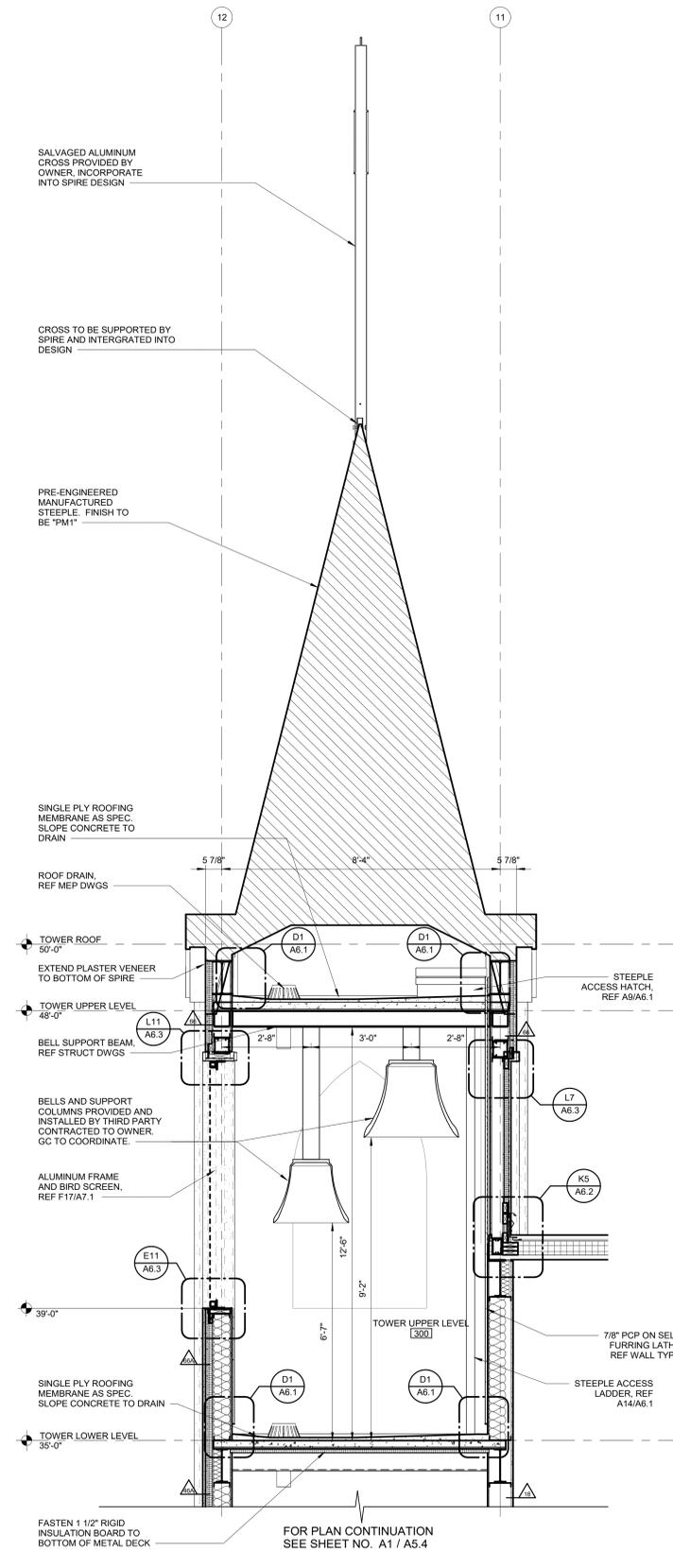
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 SHEET NAME  
**WALL SECTIONS**

SHEET NUMBER

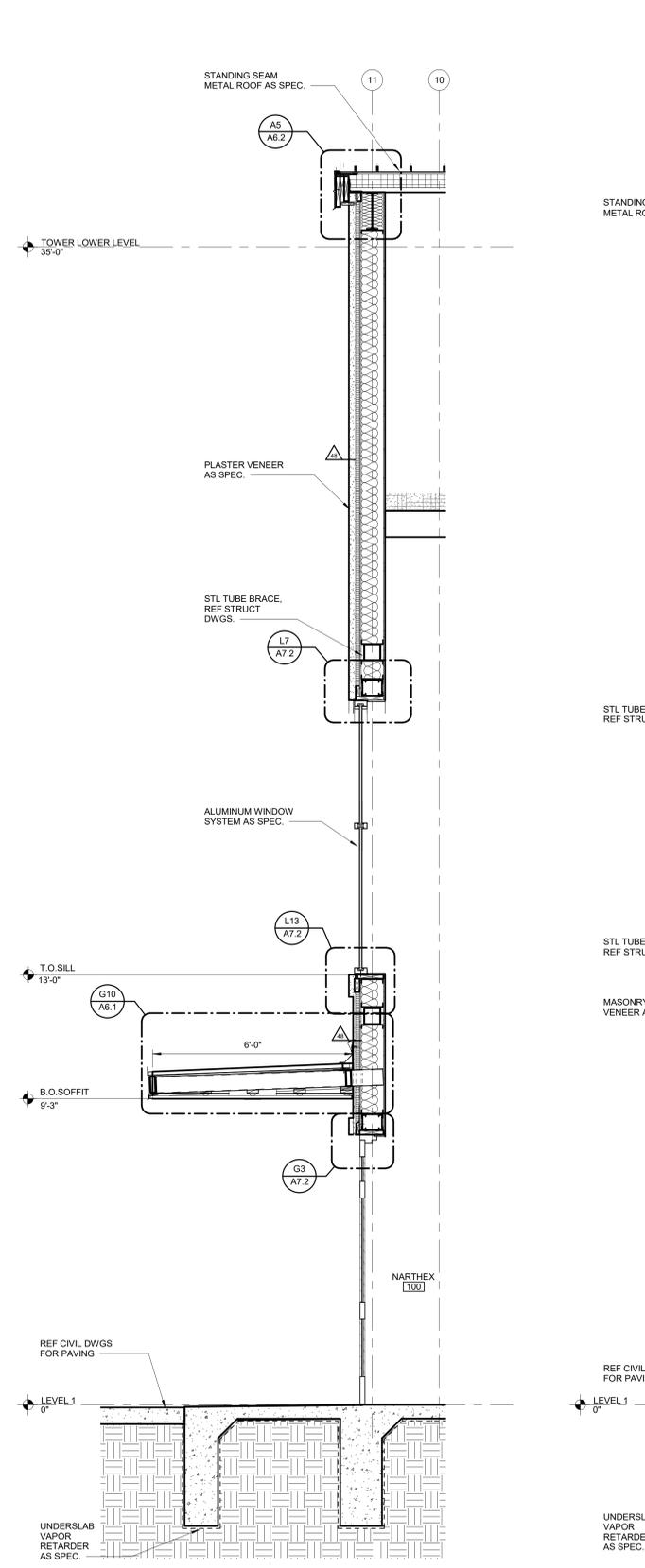
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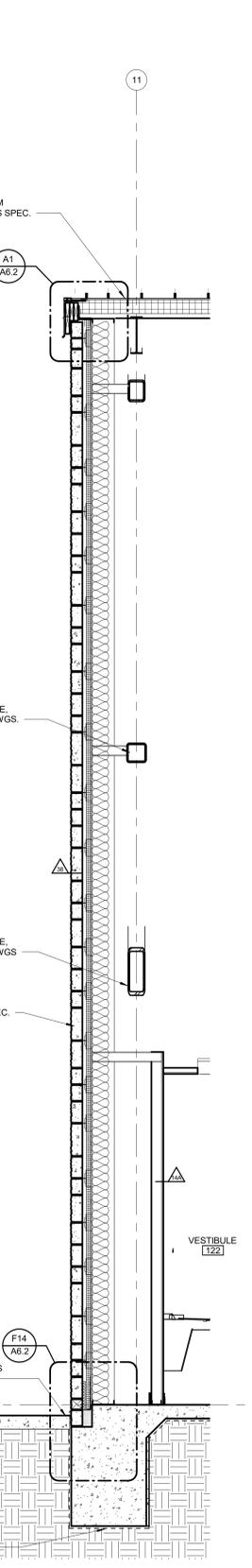
**A1** WALL SECTION  
 1/2" = 1'-0"



**A7** WALL SECTION  
 1/2" = 1'-0"



**A12** WALL SECTION  
 1/2" = 1'-0"



**A16** WALL SECTION  
 1/2" = 1'-0"

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**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
**DIocese of Victoria**  
 HOUSTON, TX

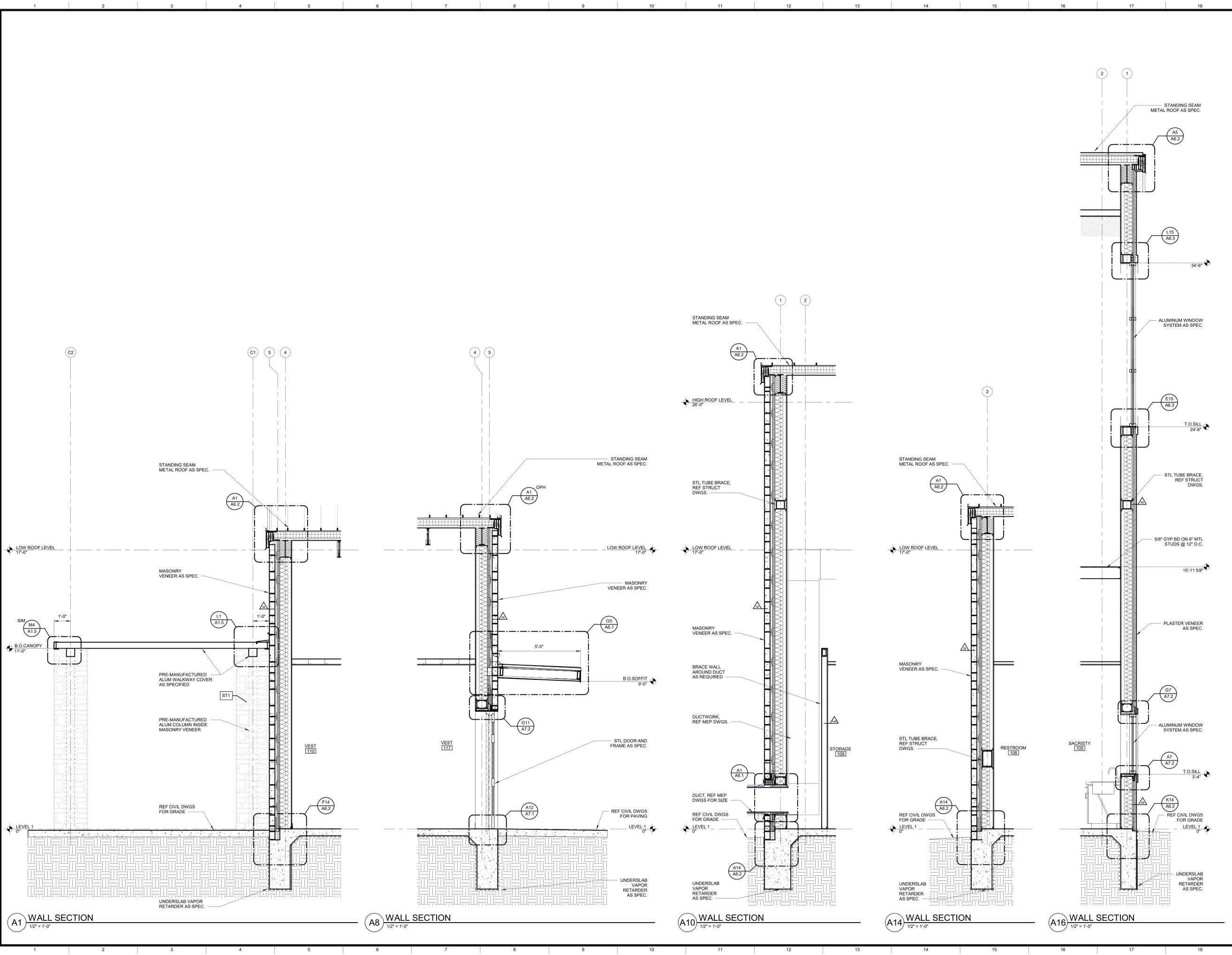
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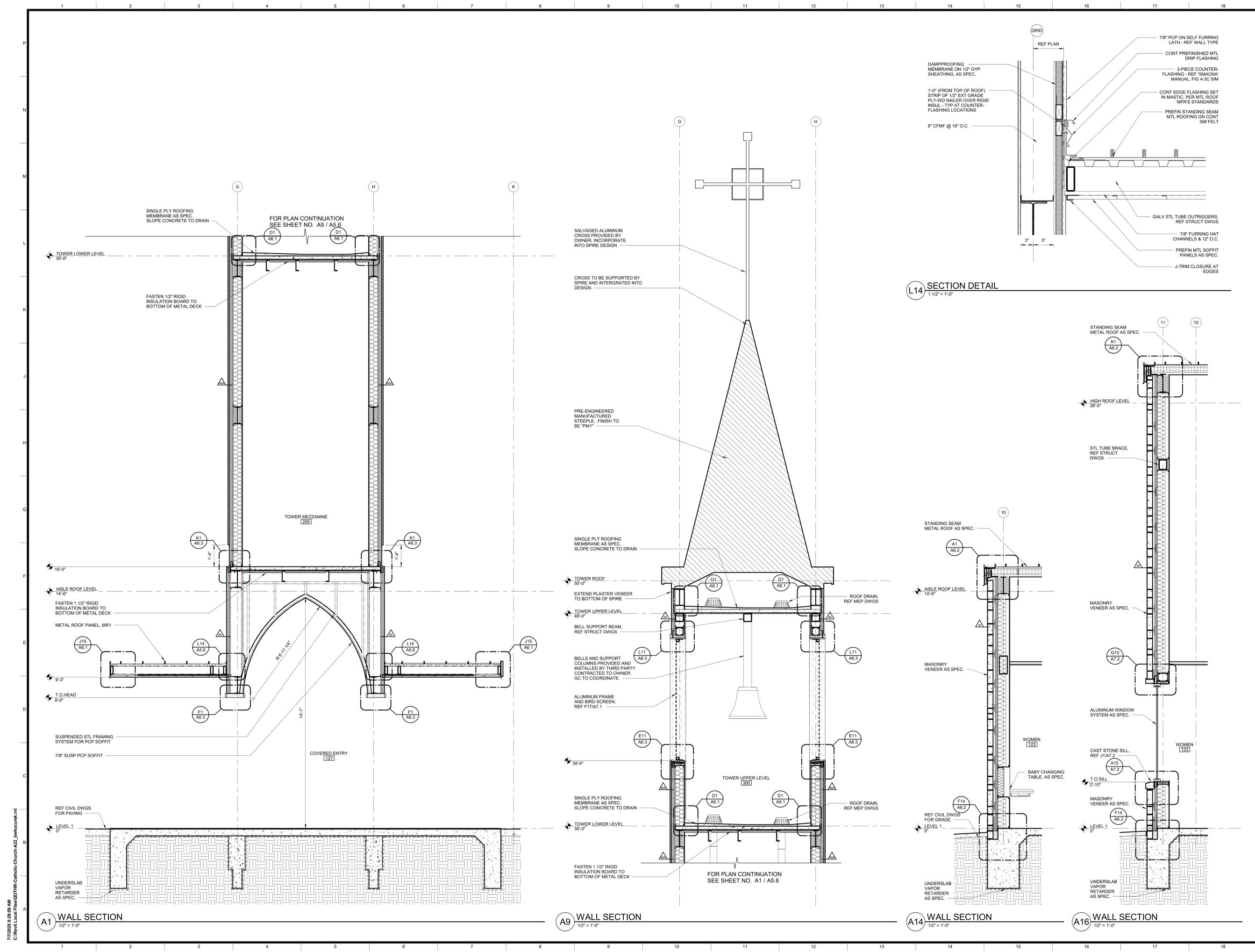
PLAN NORTH TRUE NORTH

SHEET NAME  
**WALL SECTIONS**

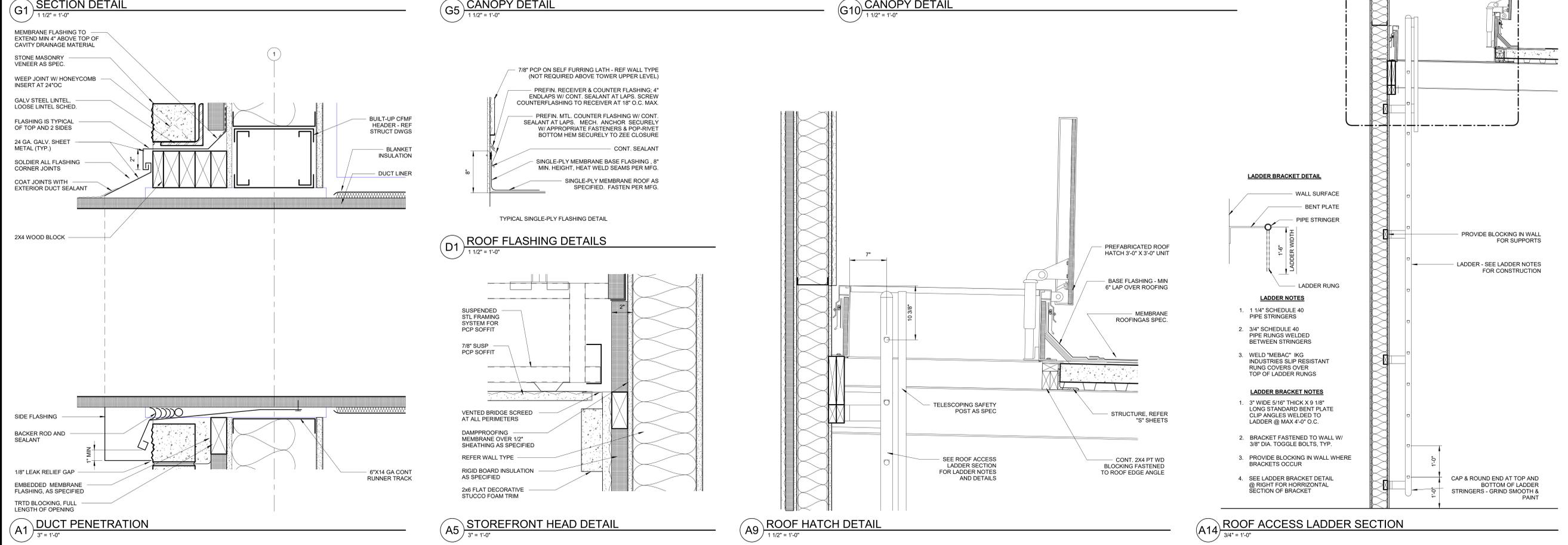
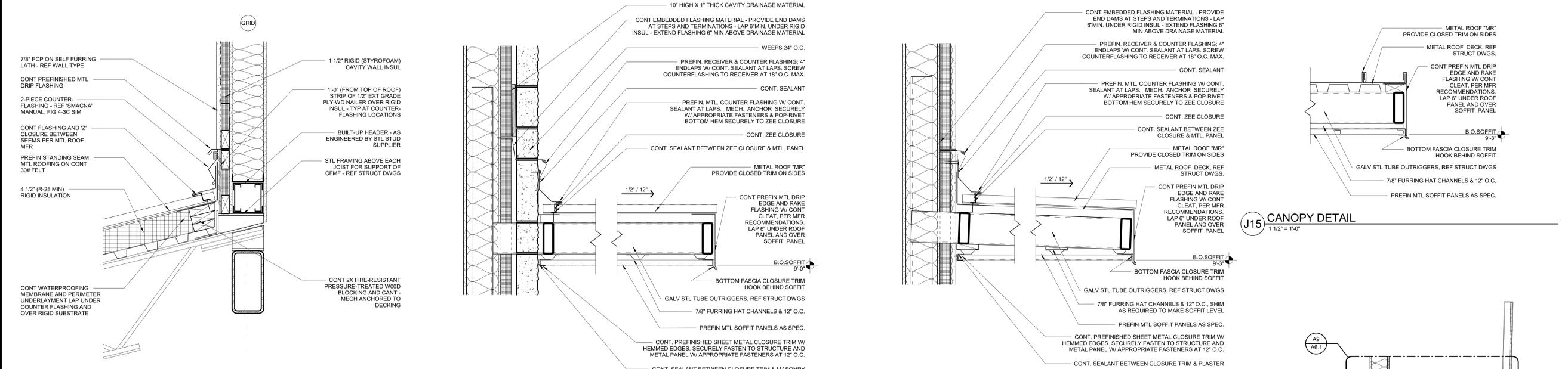
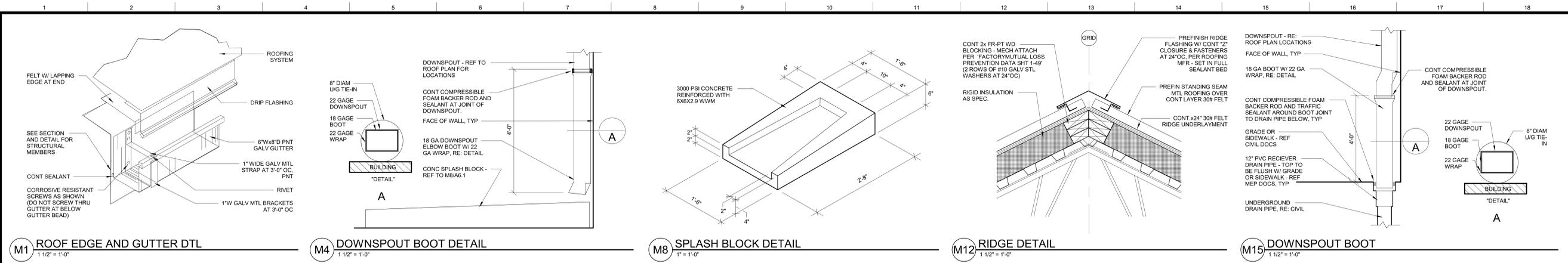
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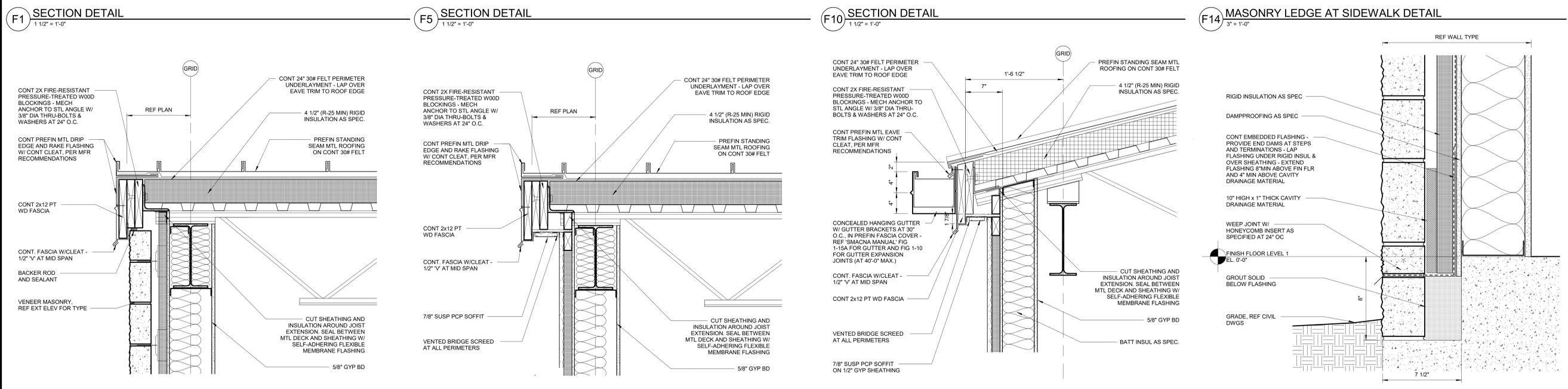
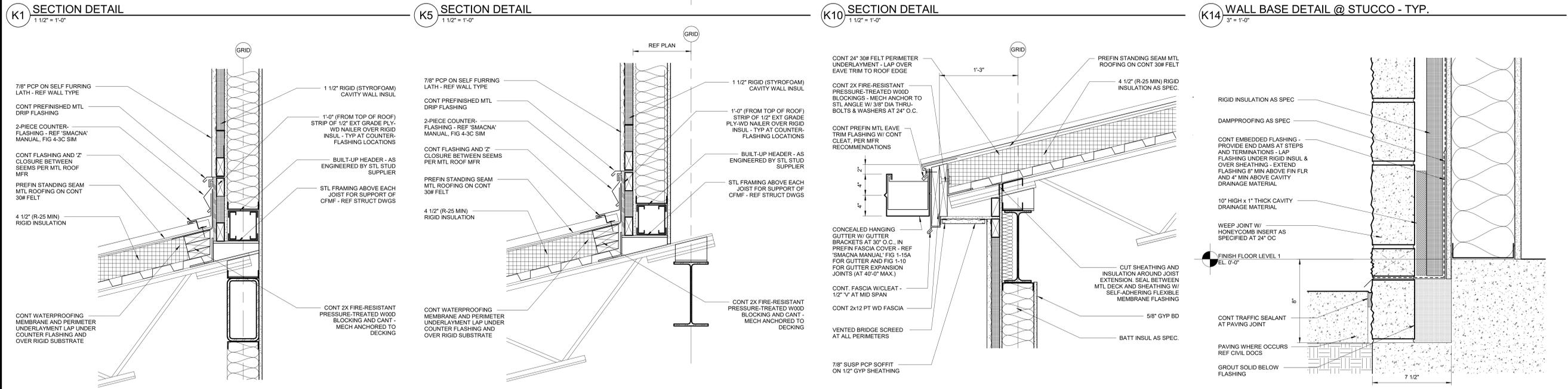
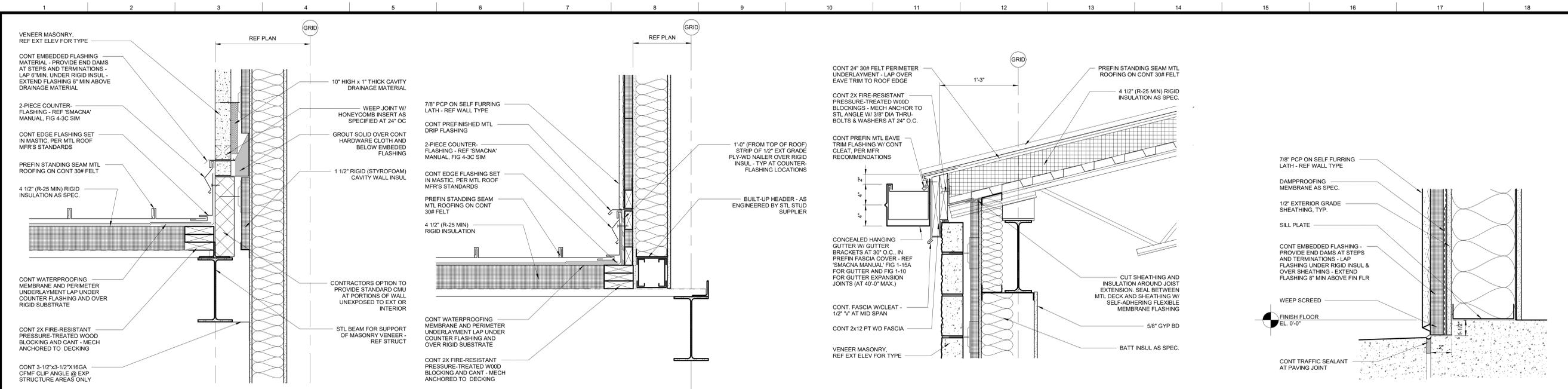
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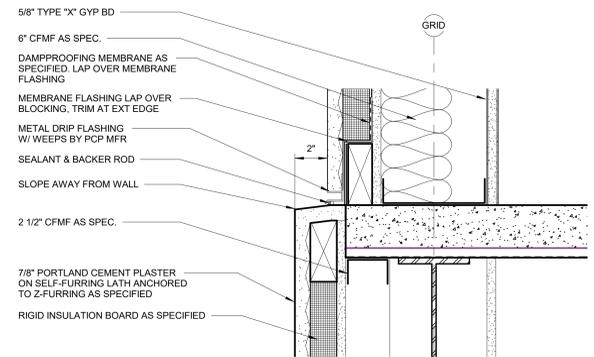
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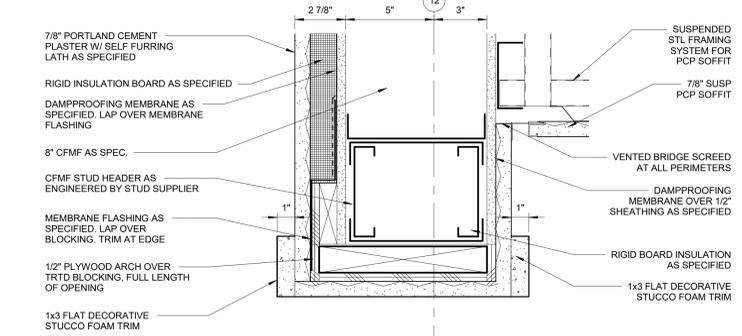
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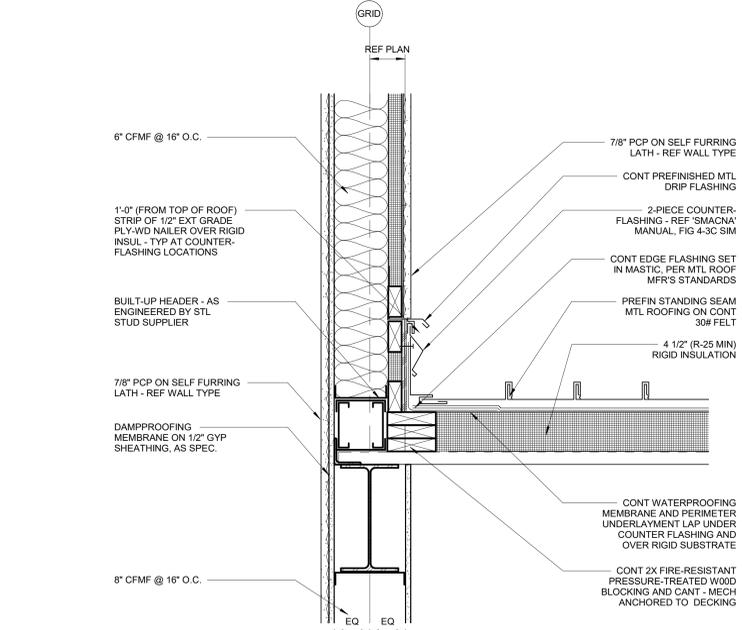
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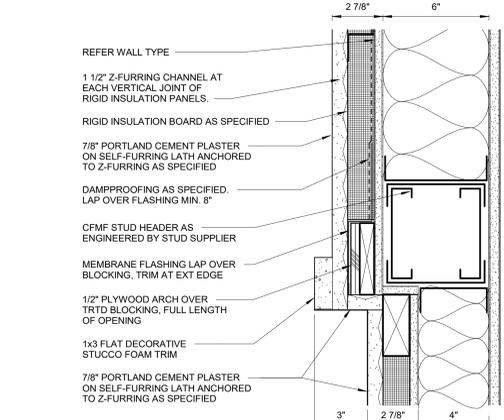
**K1 PLASTER TRANSITION DETAIL**  
3" = 1'-0"



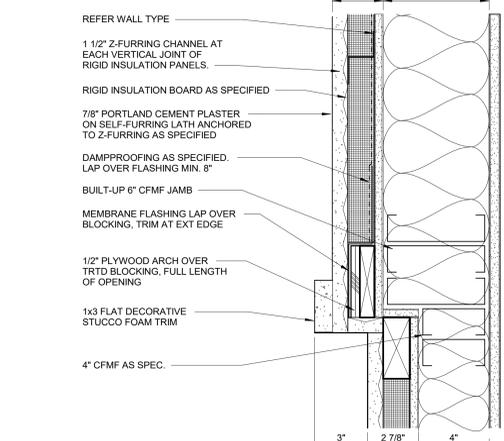
**F1 PLASTER ARCHED OPENING HEAD DETAIL**  
3" = 1'-0"



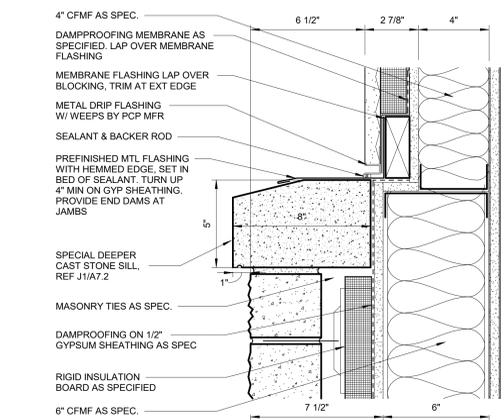
**A2 SECTION DETAIL**  
1 1/2" = 1'-0"



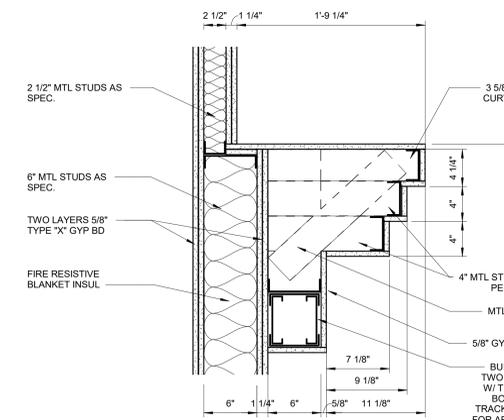
**L7 STATUE ALCOVE HEAD DETAIL**  
3" = 1'-0"



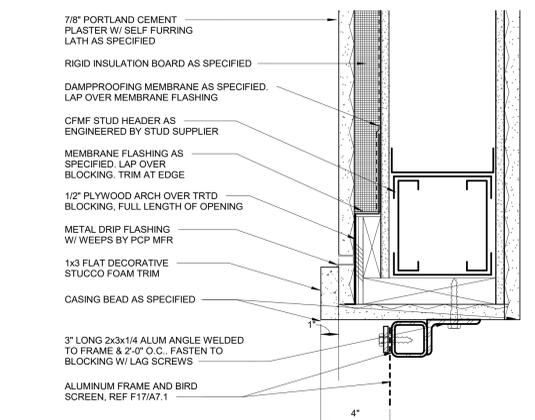
**G7 STATUE ALCOVE JAMB DETAIL**  
3" = 1'-0"



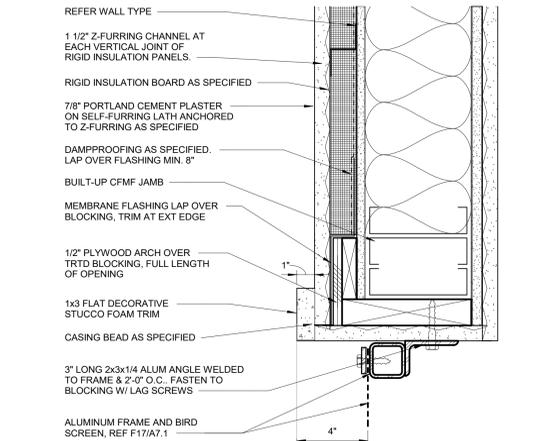
**D7 STATUE ALCOVE SILL DETAIL**  
3" = 1'-0"



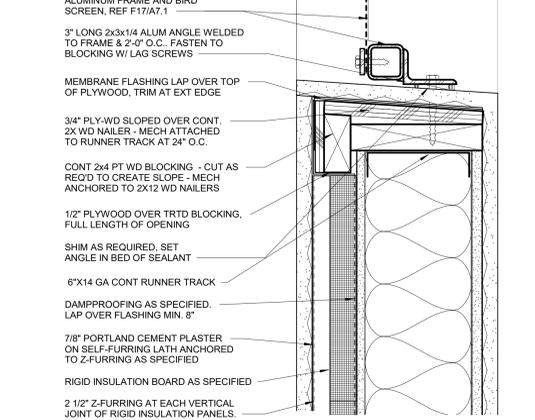
**A7 STATUE PEDESTAL DETAIL**  
1 1/2" = 1'-0"



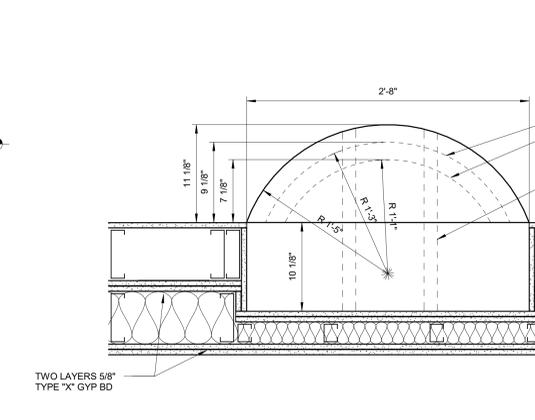
**L11 ALUM HEAD DETAIL**  
3" = 1'-0"



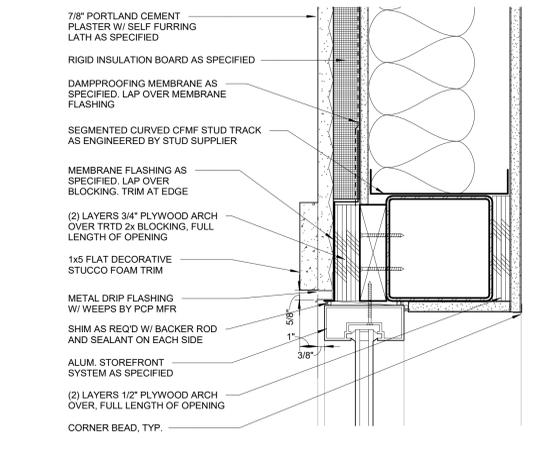
**G11 SCREEN JAMB DETAIL**  
3" = 1'-0"



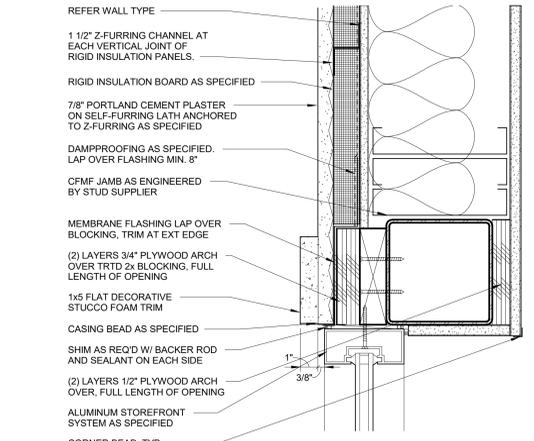
**E11 SCREEN SILL DETAIL**  
3" = 1'-0"



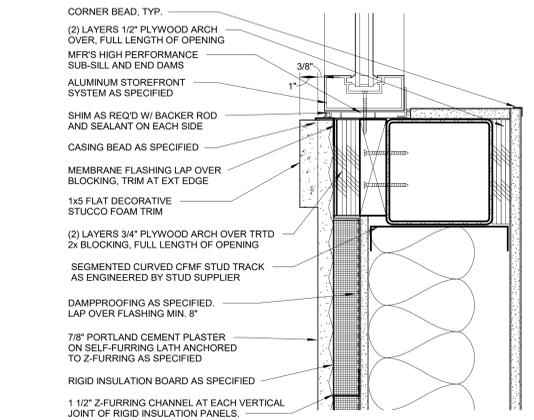
**A11 STATUE ALCOVE DETAIL**  
1 1/2" = 1'-0"



**L15 ALUM HEAD DETAIL**  
3" = 1'-0"



**G15 ALUM JAMB DETAIL**  
3" = 1'-0"



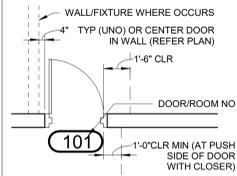
**E15 ALUM SILL DETAIL**  
3" = 1'-0"

DOOR NUMBER	DOOR TYPE	FIRE RATING	DOOR			MATERIAL	HARDWARE	DOOR		FRAME			DETAILS			REMARKS
			WIDTH	HEIGHT	THICKNESS			GLAZING	TYPE	MATERIAL	HEAD	AMB	SILL			
														SIZE	GLAZING	
100A	6PLT	3'-0"	8'-0"	1 3/4"	STL	C715T	GL-2	S1	STL	G3A7.2	D3A7.2	A12/A7.1	-	ACCESS CONTROL		
100B	CD	6'-0"	8'-0"	1 3/4"	STL	804LT	NA	S1	WD	G3A7.2	A1A2.4	A12/A7.1	-	PUSH/PULL W/ FLUSHBOLT		
100C	6PLT	3'-0"	8'-0"	1 3/4"	STL	AC715T	GL-2	S1	STL	G3A7.2	D3A7.2	A12/A7.1	-	ADA COMPLIANT ASSISTED DOOR OPENER, ACCESS CONTROL		
101A	FG	6'-0"	7'-0"	1 3/4"	WD	800HL	GL-1	A11	ALUM	G1A7.2	D1A7.2	-	-	PUSH/PULL W/ FLUSHBOLT		
101B	FG	6'-0"	7'-0"	1 3/4"	WD	800HL	GL-1	A11	ALUM	G1A7.2	D1A7.2	-	-	PUSH/PULL W/ FLUSHBOLT		
101C	6PNL	6'-0"	7'-0"	1 3/4"	WD	C710	NA	W1	WD	D1A7.1	A1A7.1	-	-	ACCESS CONTROL		
101D	NA	6'-0"	7'-0"	1 3/4"	NA	002	NA	W1	WD	D1A7.1	A1A7.1	-	-	CASED OPENING		
104	F	3'-0"	7'-0"	1 3/4"	WD	K201	NA	S1	STL	D3A7.1	A3A7.1	-	-	KEYPAD		
105A	6PNL	3'-0"	7'-0"	1 3/4"	WD	403	NA	W1	WD	D1A7.1	A1A7.1	-	-	PASSAGE		
105B	NA	4'-8"	7'-0"	1 3/4"	NA	002	NA	W1	WD	D6A7.1	A6A7.1	-	-	CASED OPENING		
106	NA	3'-10"	7'-0"	1 3/4"	NA	002	NA	W1	WD	D6A7.1	A6A7.1	-	-	CASED OPENING		
107	NA	3'-10"	7'-0"	1 3/4"	NA	002	NA	W1	WD	D6A7.1	A6A7.1	-	-	CASED OPENING		
108	6PNL	3'-0"	7'-0"	1 3/4"	WD	341	NA	W1	WD	D1A7.1	A1A7.1	-	-	DEADBOLT WITH OCCUPANCY INDICATOR		
109	6PNL	3'-6"	7'-0"	1 3/4"	WD	K201W	NA	W1	WD	D1A7.1	A1A7.1	-	-	KEYPAD		
110	6PNL	3'-0"	7'-0"	1 3/4"	STL	AC715	GL-2	S1	STL	G11A7.2	D11A7.2	A12/A7.1	-	ADA COMPLIANT ASSISTED DOOR OPENER, ACCESS CONTROL		
112	F	2HR	3'-0"	7'-0"	1 3/4"	STL	207	NA	S1	STL	D9A7.1	A9A7.1	-	-	STORAGE LOCKSET	
113A	F	3'-6"	7'-0"	1 3/4"	STL	105W	NA	S1	STL	G11A7.2	D11A7.2	A12/A7.1	-	ENTRY LOCKSET		
113B	F	2HR	3'-0"	7'-0"	1 3/4"	STL	201	NA	S1	STL	D9A7.1	A9A7.1	-	-	STORAGE LOCKSET	
114	6PNL	4'-0"	7'-0"	1 3/4"	WD	K207W	NA	W1	WD	D1A7.1	A1A7.1	-	-	KEYPAD		
115	F	3'-0"	7'-0"	1 3/4"	STL	403	NA	S1	STL	D3A7.1	A3A7.1	-	-	PASSAGE		
117	6PNL	3'-0"	7'-0"	1 3/4"	WD	C715	GL-2	NA	S1	STL	G11A7.2	D11A7.2	A12/A7.1	-	ACCESS CONTROL	
118	NL	3'-0"	7'-0"	1 3/4"	WD	403G	NA	W1	WD	D1A7.1	A1A7.1	-	-	PASSAGE		
119	6PNL	6'-0"	7'-0"	1 3/4"	WD	806L	NA	W1	WD	D1A7.1	A1A7.1	-	-	DEADBOLT, KEVED OUTSIDE, THUMBTURN INSIDE		
120	6PNL	3'-0"	7'-0"	1 3/4"	WD	203	NA	W1	WD	D1A7.1	A1A7.1	-	-	STORAGE LOCKSET		
121	6PNL	3'-0"	7'-0"	1 3/4"	WD	341	NA	W1	WD	D1A7.1	A1A7.1	-	-	DEADBOLT WITH OCCUPANCY INDICATOR		
122	NA	6'-0"	7'-0"	1 3/4"	NA	002	NA	W1	WD	D6A7.1	A6A7.1	-	-	CASED OPENING		
123	6PNL	3'-0"	7'-0"	1 3/4"	WD	801	NA	W1	WD	D1A7.1	A1A7.1	-	-	PUSH/PULL W/ FOOT PULL		
124	6PNL	3'-0"	7'-0"	1 3/4"	WD	801	NA	W1	WD	D1A7.1	A1A7.1	-	-	PUSH/PULL W/ FOOT PULL		
125	6PNL	3'-0"	7'-0"	1 3/4"	WD	K201	NA	W1	WD	D1A7.1	A1A7.1	-	-	KEYPAD, CLOSER		
126	6PNL	3'-0"	7'-0"	1 3/4"	WD	341C	NA	W1	WD	D1A7.1	A1A7.1	-	-	PRIVACY LOCKSET		
Grand total: 30																

**DOOR NOTES:**

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

**DOOR MARK LEGEND**



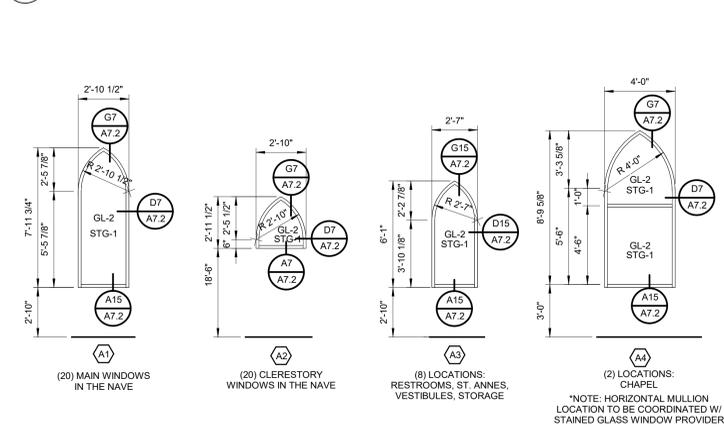
**FRAME TYPE LEGEND**

- SH STEEL (HM) FRAME TYPE
- AL ALUMINUM FRAME TYPE
- WB WOOD FRAME TYPE

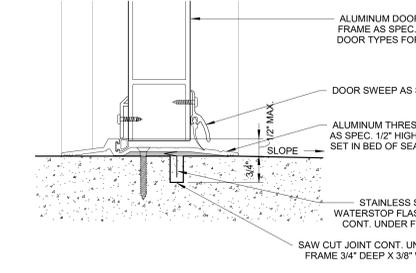
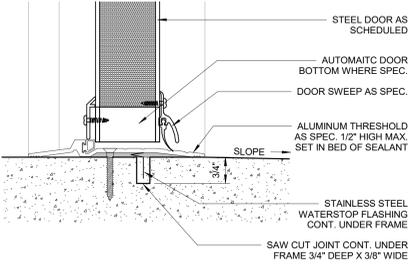
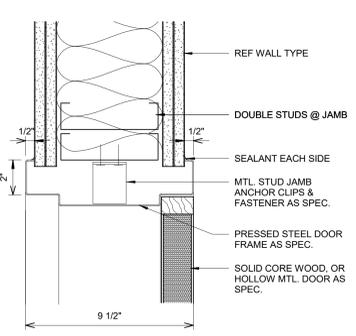
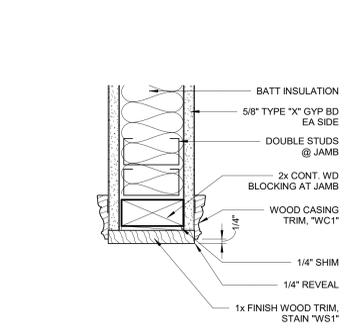
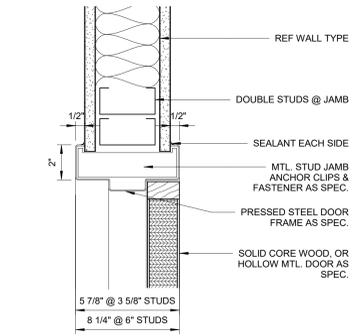
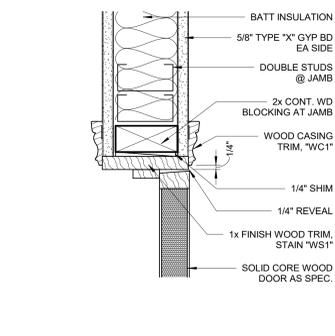
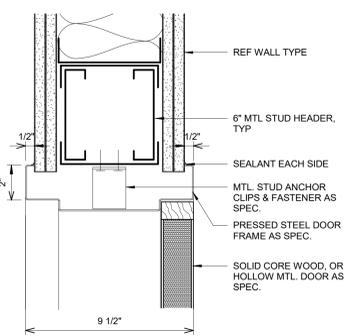
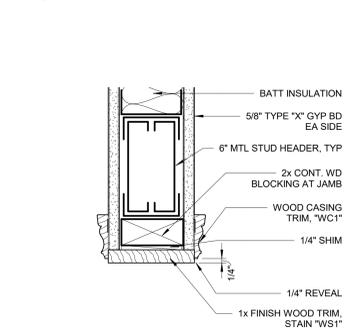
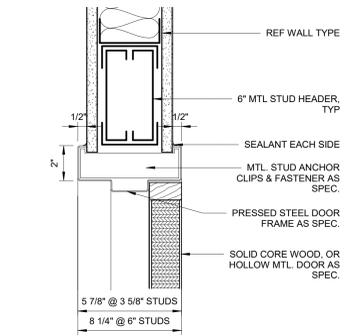
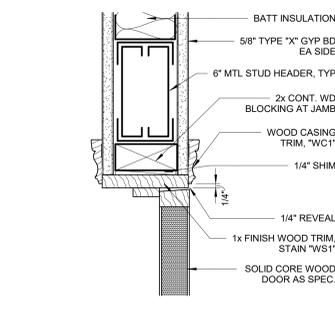
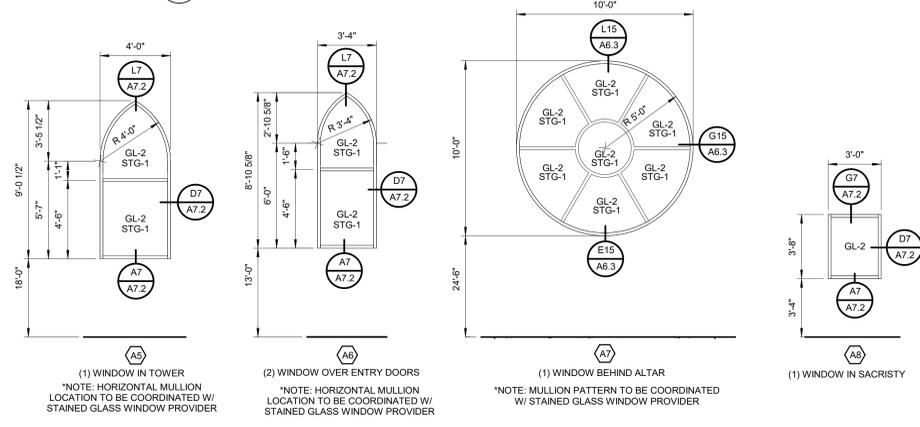
**GLAZING LEGEND**

- REF SHEET A8.0 MATERIAL SCHEDULE FOR GLASS TYPES
- GL-1 CLEAR INSUL SAFETY GLASS
  - GL-2 TINTED INSUL SAFETY GLASS
  - GL-3 ONE-WAY INSUL SAFETY GLASS
  - STG-1 WINDOW TO RECEIVE STAINED GLASS

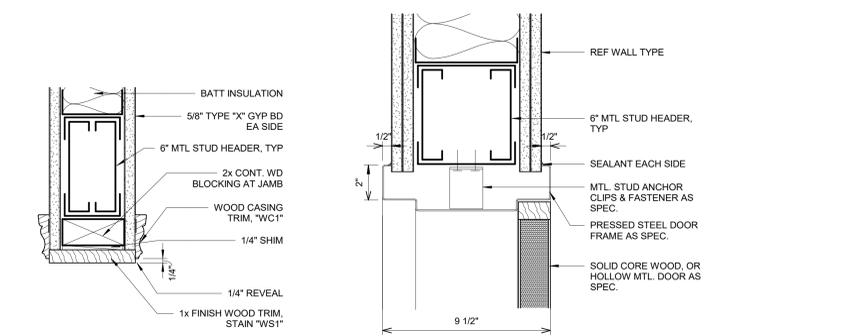
**N7 DOOR TYPES**  
1/4" = 1'-0"



**N13 FRAME TYPES**  
1/4" = 1'-0"



**F6 WINDOW ELEVATIONS**  
1/4" = 1'-0"



**F17 BELL TOWER SCREEN**  
1/4" = 1'-0"



**RMA ARCHITECTS & INTERIOR DESIGNERS**  
3111 E. Constitution St., Ste 210  
Victoria, Texas 77901  
www.rmaarch.com

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REGISTERED ARCHITECT  
REGISTRATION NO. 22147  
STATE OF TEXAS

Final Plans for Bidding and Construction

REGISTERED ARCHITECT  
STATE OF TEXAS  
7.2.25

**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
DIOCESE OF VICTORIA  
HOUSTON, TX

DATE ISSUED:  
**07-02-2025**

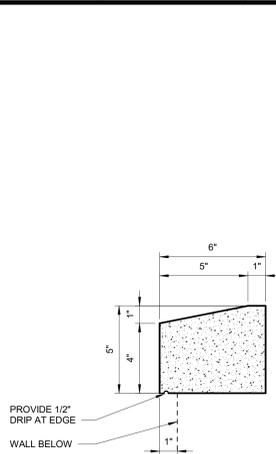
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1024-0623

SHEET NAME:  
**DOOR SCHEDULE, DETAILS & WINDOW ELEVATIONS**

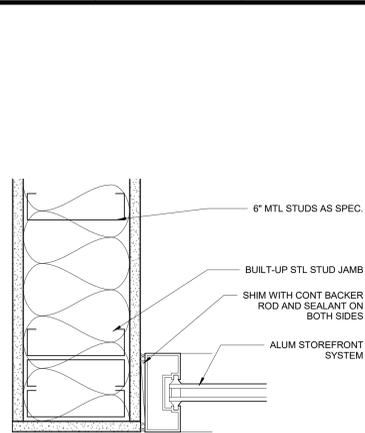
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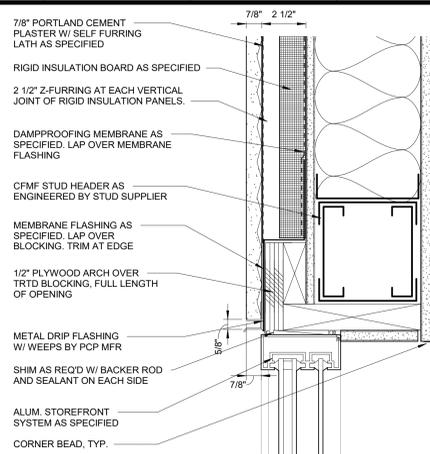
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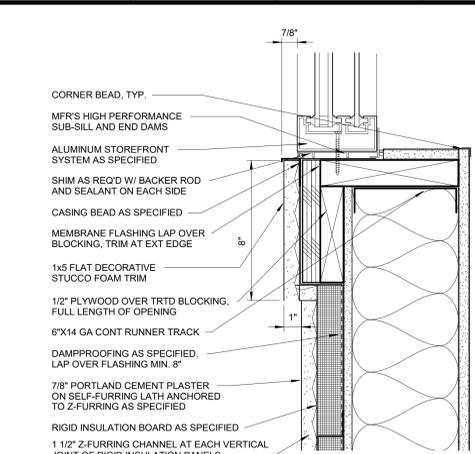
**J1** CAST STONE SILL PROFILE  
3" = 1'-0"



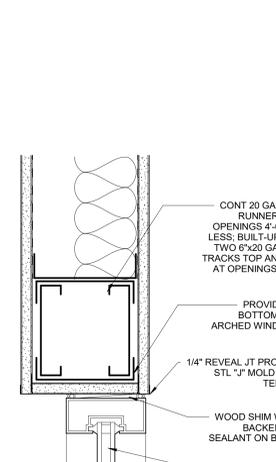
**L3** JAMB DETAIL  
3" = 1'-0"



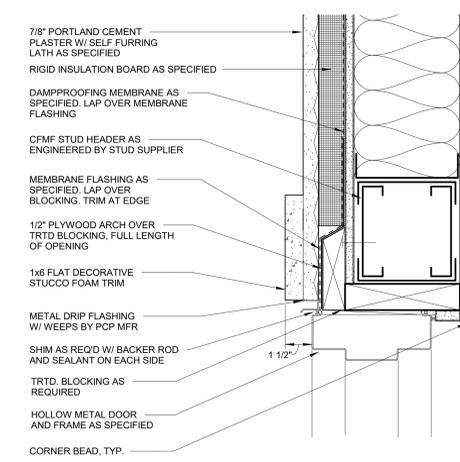
**L7** ALUM HEAD DETAIL  
3" = 1'-0"



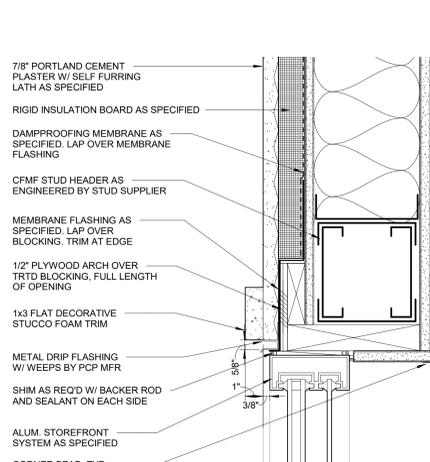
**L13** ALUM SILL DETAIL  
3" = 1'-0"



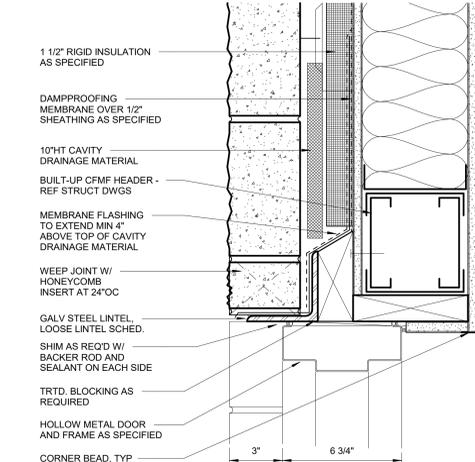
**G1** HEAD DETAIL  
3" = 1'-0"



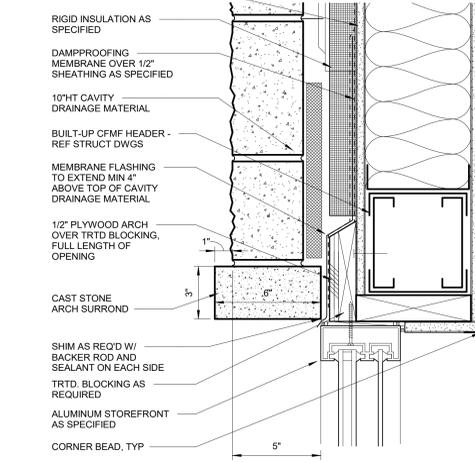
**G3** STEEL HEAD DETAIL  
3" = 1'-0"



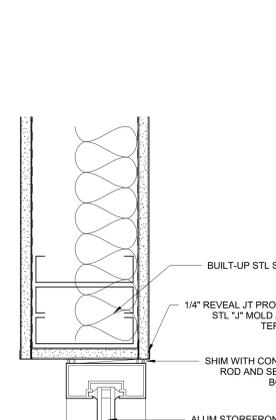
**G7** ALUM HEAD DETAIL  
3" = 1'-0"



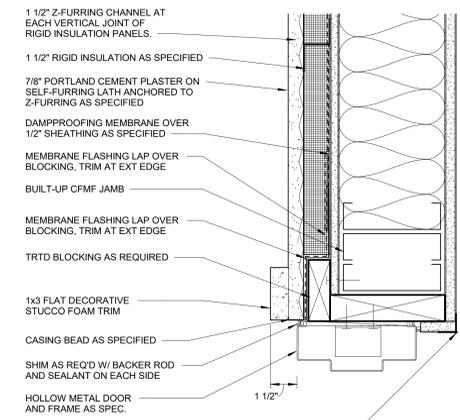
**G11** PRESSED STEEL HEAD  
3" = 1'-0"



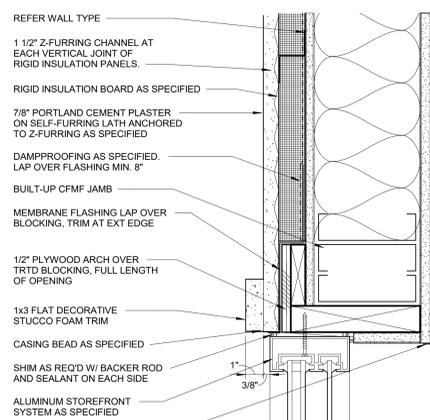
**G15** STOREFRONT HEAD DETAIL  
3" = 1'-0"



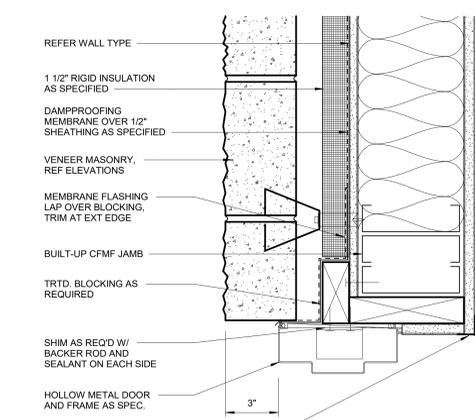
**D1** JAMB DETAIL  
3" = 1'-0"



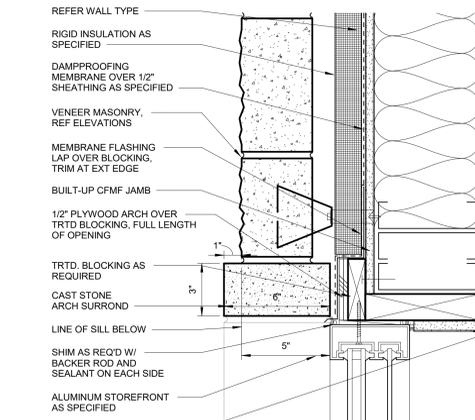
**D3** STEEL JAMB DETAIL  
3" = 1'-0"



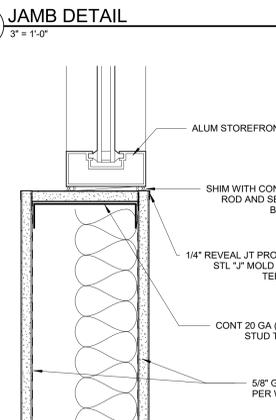
**D7** ALUM JAMB DETAIL  
3" = 1'-0"



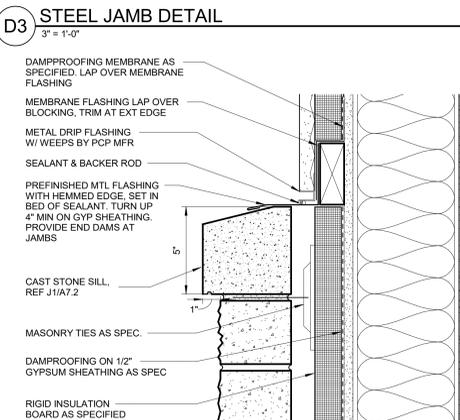
**D11** PRESSED STEEL JAMB  
3" = 1'-0"



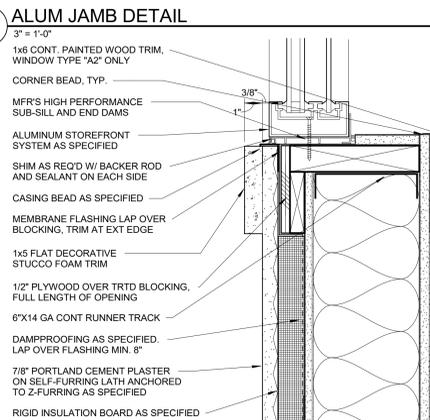
**D15** STOREFRONT JAMB DETAIL  
3" = 1'-0"



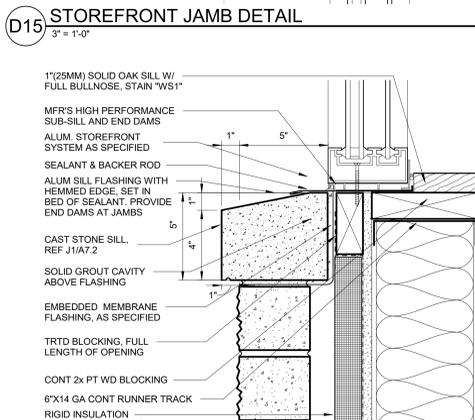
**A1** SILL DETAIL  
3" = 1'-0"



**A3** WAINSCOT SILL DETAIL - TYP.  
3" = 1'-0"



**A7** ALUM SILL DETAIL  
3" = 1'-0"



**A15** STOREFRONT SILL DETAIL  
3" = 1'-0"

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DIOCESE OF VICTORIA  
HOUSTON, TX

DATE ISSUED:  
07-02-2025

PROJECT NUMBER:  
1024-0623

PLAN NORTH TRUE NORTH

SHEET NAME  
HEAD, JAMB, AND  
SILL DETAILS

SHEET NUMBER  
**A7.2**

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MATERIAL SCHEDULE							
MATERIAL	MARK	MANUFACTURER	STYLE	MFR. NO.	COLOR	NOTES	
ACOUSTIC PANEL CEILING	APC1	ROCKFON	ARCTIC, SL (SQ REGULAR), 24x24	660	WHITE		
ACOUSTIC PANEL SYSTEM (FABRIC)	APS1	CONWED WALL TECHNOLOGY	EUROSPAN - 2"		OPTIC WHITE	ALTERNATE #3, NAIVE CEILING	
ACOUSTIC PANEL SYSTEM (FABRIC)	APS2	CONWED WALL TECHNOLOGY	EUROSPAN - 2"		MATCH "P4"	ALTERNATE #3, CHAPEL CEILING	
ACOUSTIC PANEL SYSTEM (FABRIC)	APS3	CONWED WALL TECHNOLOGY	EUROSPAN - 1"		MATCH "P4"	ALTERNATE #2, NARTHEX WALLS	
ALUMINUM STOREFRONT	AL1	SUSSMAN ARCHITECTURAL PRODUCTS	TRIPLE GLAZED THERMAL BREAK SERIES	6400	DARK BRONZE	ALL EXTERIOR WINDOWS SCHEDULED TO RECEIVE STAINED GLASS	
ALUMINUM STOREFRONT	AL2	KAWNEER	TRIFAB	VG 451	ANTIQUE BRONZE - UC100027	INTERIOR WINDOWS	
CAST STONE	CS1	AHI SUPPLY	-	#10	WHITE		
CERAMIC WALL TILE	CT4	ATLAS CONCORDE	BOHO, 12"x10", DIAMOND MOSAIC	-	EARTH	EWC WALL	
CERAMIC WALL TILE	CT5	ATLAS CONCORDE	BOHO, 12"x24"	-	EARTH	RESTROOM WALLS & FLOORS	
CERAMIC WALL TILE	CT6	ATLAS CONCORDE	BOHO, 6"x12" COVE BASE	-	EARTH	CTS WALLS	
CERAMIC WALL TILE	CT7	ATLAS CONCORDE	BOHO, 3"x24" BULLNOSE	-	EARTH	CTS OUTSIDE CORNERS, WAINSCOT TOP	
CERAMIC WALL TILE	CT8	ATLAS CONCORDE	BOHO, 12"x12" MOSAIC	-	EARTH	RESTROOM WINDOW "A1" HEAD, JAMB, SILL	
GLASS	GL-1	PPG	DOUBLE PANE INSULATED SAFETY GLASS	-	CLEAR	INTERIOR GLAZING	
GLASS	GL-2	VITRO ARCHITECTURAL GLASS	SOLABAN 60 (2) + CLEAR	-	SCOLARGRAY	EXTERIOR GLAZING	
GLASS	GL-3	PILKINGTON	MIRROR PANE - INSULATED SAFETY GLASS	-	GREY	VESTRY & ST. ANN'S ROOM	
GLASS	STG-1	CAVALLINI CO.	A SELECTED BY OWNER	-	STAINED	PROVIDED AND INSTALLED BY THIRD PARTY CONTRACTED TO OWNER. GC TO COORDINATE INSTALLATION.	
GROUT	GT1	MAPEI	-	106	WALNUT	CT4, CT5, CT6, CT7, CT8	
LUXURY VINYL TILE	LVT1	PATCRAFT	MONOCHROME MATTE, 18"x36", STAGGER	00100	PEARL		
METAL ROOF	MR1	MCELROY METALS	MAXIMA 2" - 12" FLAT PANEL	-	PATRICIAN BRONZE	ROOF	
METAL SOFFIT PANEL	MS1	MCELROY METALS	MARQUEE-LOK - 12" FLAT PANEL	KYNAR 500	PATRICIAN BRONZE	EXTERIOR SOFFITS	
PAINT	P1	SHERWIN WILLIAMS	-	SW 7647	CRUSHED ICE	STANDARD WALL COLOR	
PAINT	P2	SHERWIN WILLIAMS	-	SW 7031	MEGA GREIGE	ACCENT COLOR	
PAINT	P3	SHERWIN WILLIAMS	-	SW 7025	BACKDROP	HM DOOR FRAMES, STEEL DOORS, HANDRAILS, EXPOSED STEEL TUBE FRAMING	
PAINT	P4	SHERWIN WILLIAMS	-	SW 7606	BLUE CRUISE	ACCENT COLOR	
PAINT	P5	SHERWIN WILLIAMS	-	SW 6007	PURE WHITE	CRUCIFIX ACCENT COLOR	
PLASTIC LAMINATE	PL1	PIONITE	-	AT435TW	TAILOR MADE	VESTRY & SACRISTY BASE CABINETS, UPPER CABINETS	
PLASTIC LAMINATE	PL2	WILSONART	-	5041K-15	GRANITO CASCATA	VESTRY & SACRISTY COUNTERTOP & BACKSPLASH	
PORTLAND CEMENT PLASTER	PCP1	AS SPECIFIED	-	-	MATCH "P1"	EXTERIOR	
PREFINISHED METAL	PM1	MCELROY METALS	-	KYNAR 500	PATRICIAN BRONZE	GUTTERS, DOWNSPOUTS, RAKES, EXTERIOR METAL TRIM, BUILDING SIGNAGE, METAL LOCKERS	
PREFINISHED METAL	PM2	MCELROY METALS	-	KYNAR 500	BONE WHITE	EXTERIOR LOUVERS	
QUARTZ	QZ1	WILSONART	3 CM	Q4023	SANTIAGO	ST ANN'S ROOM COUNTERTOP & BACKSPLASH	
QUARTZ	QZ2	CAMBRIA	3 CM	-	HERMTAGE	MEN & WOMEN RESTROOM COUNTERTOP & BACKSPLASH	
RUBBER BASE	RB1	JOHNSONITE BY TARKETT	4" VINYL COVE	280	SHORELINE	AT SACRISTY, VESTRY, STORAGE, AND SEALED CONCRETE FLOORS	
SEALED CONCRETE	SC1	L&M CONSTRUCTION CHEMICALS, INC	LION HARD	-	CLEAR		
STONE	ST1	AJ BRAUER STONE	FULL BED VENEER, CHOPPED, 4, 6, 8, RANDOM ASHLAR	-	WHITE LIMESTONE	EXTERIOR VENEER MASONRY	
TERRAZO	TZ1	SOUTHERN TERRAZZO & TILE	-	-	MATCH "P1" CRUSHED ICE	FIELD	
TERRAZO	TZ2	SOUTHERN TERRAZZO & TILE	-	-	MATCH "P3" BACKDROP	BORDER	
TERRAZO	TZ3	SOUTHERN TERRAZZO & TILE	-	-	MATCH "P4" BLUE CRUISE	ACCENT	
TOILET PARTITION	TP1	ASI	SOLID PLASTIC	9233	MOSS	MEN & WOMEN RESTROOMS	
TRANSITION STRIP	TS1	SCHLUTER	RENO U	-	NICKEL	FLOOR TILE TO TERRAZZO & LVT TRANSITION	
TRANSITION STRIP	TS2	SCHLUTER	QUADEC	-	NICKEL	WALL TILE WAINSCOT TOP TRIM	
TRANSITION STRIP	TS3	SCHLUTER	VINPRO S	-	NICKEL	LVT TO TERRAZZO TRANSITION	
WALK-OFF TILE	WT1	PATCRAFT	WALK RIGHT IN, 24"x24", QUARTER TURN	0304	00100 NATURAL BEIGE	ENTRY DOORS	
WOOD BASE	WB1	REFER TO DETAIL A17/A8.0 FOR PROFILE	WHITE OAK	-	WS1	AT TERRAZO FLOORS	
WOOD DOOR CASING	WC1	ORNAMENTAL DECORATIVE MILLWORK	UNFINISHED WHITE HARDWOOD CLASSIC COLONIAL CASING	OML14A-7FTWHW	WS1	INTERIOR DOOR CASING	
WOOD FLOOR	WF1	HARTCO	DOGWOOD PRO, ENGINEERED HARDWOOD, 6 1/2"	EKDP63L08WEE	WHITE OAK, NATURAL	ALTAR FLOOR, STAIR NOSING	
WOOD FLOOR	WF2	HARTCO	DOGWOOD, STAIR NOSING	TS3W02AM	WHITE OAK, NATURAL	STAIR NOSING	
WOOD FLOOR	WF3	HARTCO	DOGWOOD PRO, ENGINEERED HARDWOOD, 6 1/2"	EKDP63L26WEE	RED OAK, SADDLE	STAIR RISER	
WOOD STAIN	WS1	MINWAX	WHITE OAK	-	NATURAL	WOOD FRAMES, TRIM, BASE, PEWS	
WOOD STAIN	WS2	MINWAX	WHITE OAK	-	NUTMEG	WOOD DOORS, WOOD SILLS	

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Final Plans for Bidding and Construction

**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
**DIocese of Victoria**  
 HOUSTON, TX  
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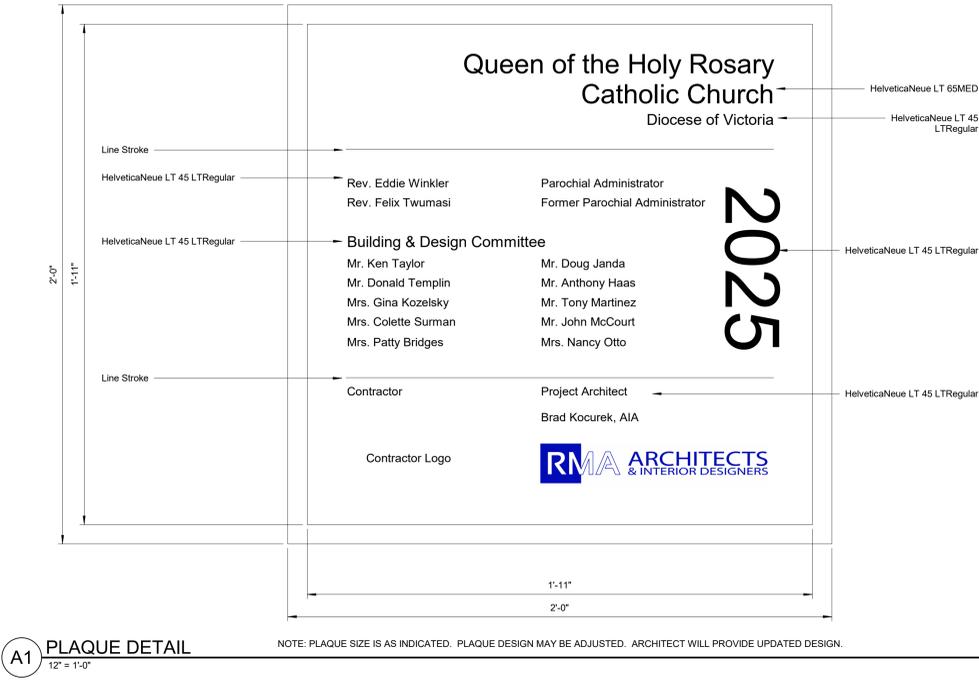
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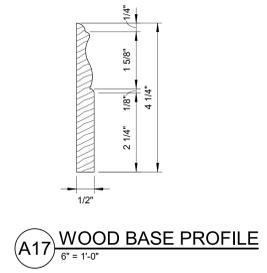
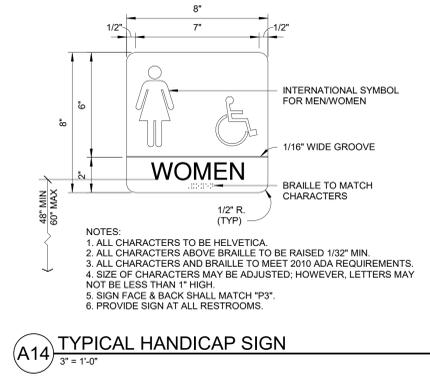
PLAN NORTH TRUE NORTH

SHEET NAME  
**MATERIAL SCHEDULE**

SHEET NUMBER  
**A8.0**



**A1** PLAQUE DETAIL  
 12" = 1'-0"



ROOM FINISH KEYNOTES	
#	Description
2	PROVIDE FULL HEIGHT TILE ALL WALLS. REFER TO INTERIOR ELEVATIONS FOR TYPE.
3	PROVIDE FULL HEIGHT TILE AT WET WALL. PROVIDE 3'-9" HEIGHT TILE WANSCOOT ALL OTHER WALLS.
4	MARION "M" SET IN TERRAZZO. REF A11/A8.0 FOR LAYOUT AND COLORS. (ALTERNATE #1)
5	PROVIDE MOSAIC TILE CT8 ON INSIDE JAMS, HEAD & SILL OF WINDOW.
6	FINAL DIMENSIONS OF OCTAGON TO BE COORDINATED WITH BAPTISMAL FONT PROVIDED BY OWNER

FINISH TAG KEY	
APC2	CEILING TYPE
P1	WALL FINISH, UNO
RE1	BASE TYPE
VC18	FLOOR FINISH
1	FINISH KEYNOTE
P1	MATERIAL TAG (REF SHEET A8.0 FOR MATERIAL SCHEDULE)

FLOOR PATTERN LEGEND	
[Pattern]	SEALED CONCRETE - SC1
[Pattern]	LUXURY VINYL TILE - LVT1
[Pattern]	TERRAZZO - TZ1
[Pattern]	TERRAZZO - TZ2
[Pattern]	TERRAZZO - TZ3
[Pattern]	WOOD FLOORING - WF1
[Pattern]	WALK OFF TILE - WT1
[Pattern]	CERAMIC FLOOR TILE - CT5

FURNITURE LEGEND	
FURNITURE IN THIS LEGEND IS OWNER FURNISHED. IT IS SHOWN FOR REFERENCE ONLY.	
[Symbol]	BAPTISMAL FONT
[Symbol]	VOTIVE CANDLE STAND
[Symbol]	HOLY WATER FONT
[Symbol]	PEW
[Symbol]	KNEELER
[Symbol]	PADDED CHAIR W/O ARMREST
[Symbol]	PADDED CHAIR W/ ARMREST
[Symbol]	ALTAR - 60"x60"
[Symbol]	CRENDENCE TABLE
[Symbol]	AMBO
[Symbol]	TABERNACLE STAND

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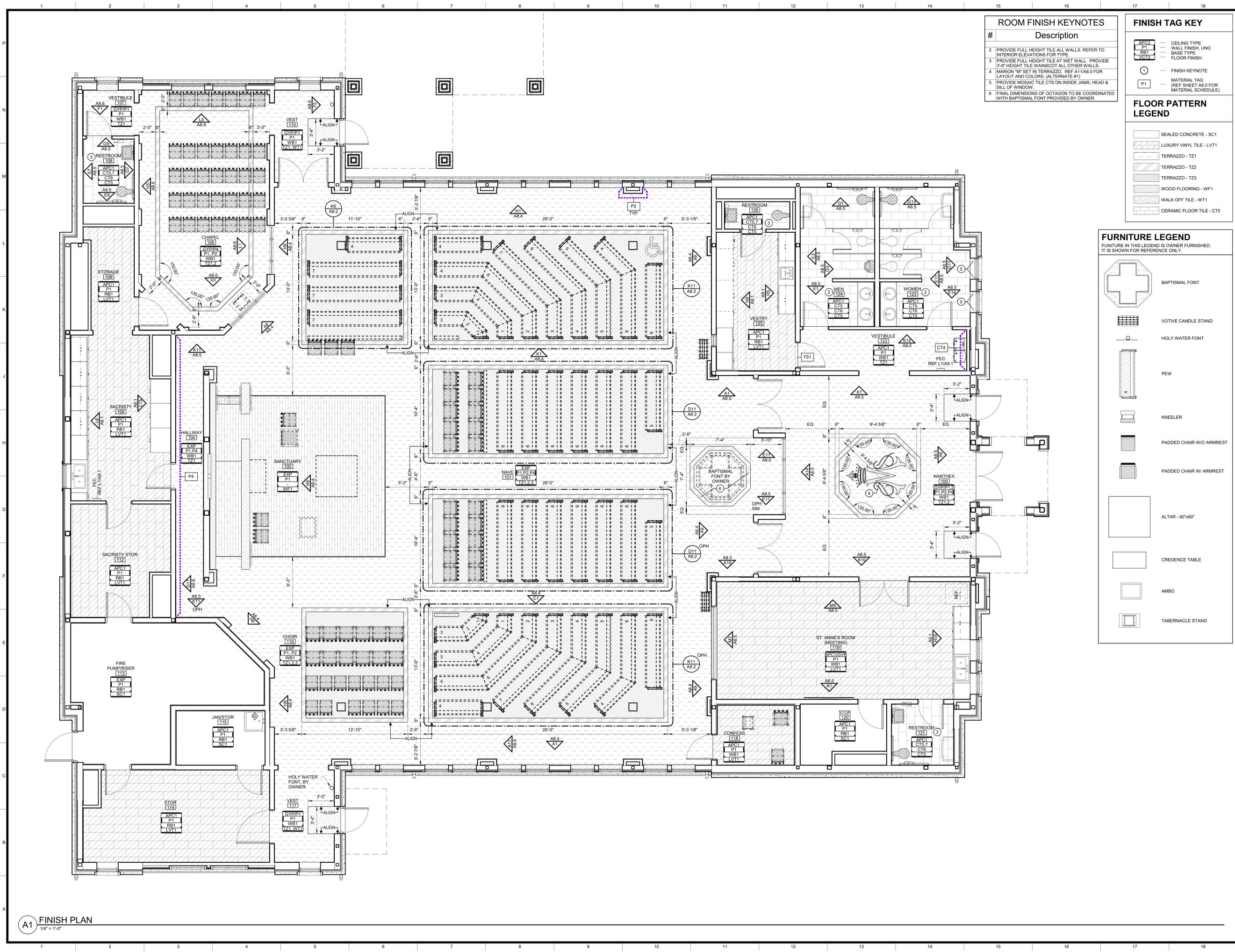
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PLAN NORTH TRUE NORTH

SHEET NAME  
**FINISH PLAN**

SHEET NUMBER

**A8.1**



**A1 FINISH PLAN**  
 1/4" = 1'-0"

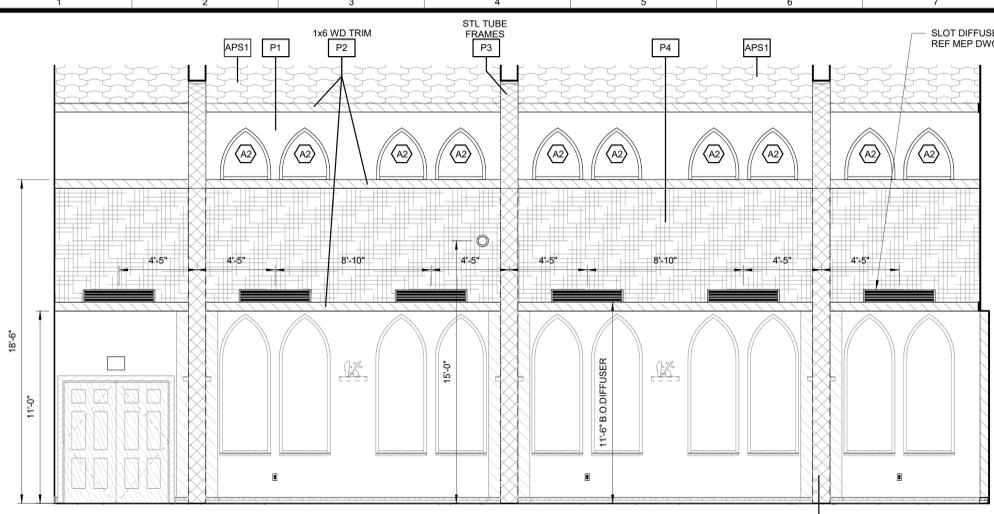
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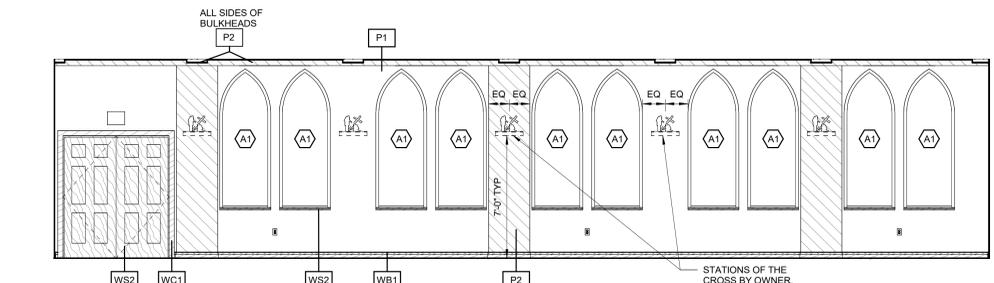


**INTERIOR ELEVATION LEGEND**

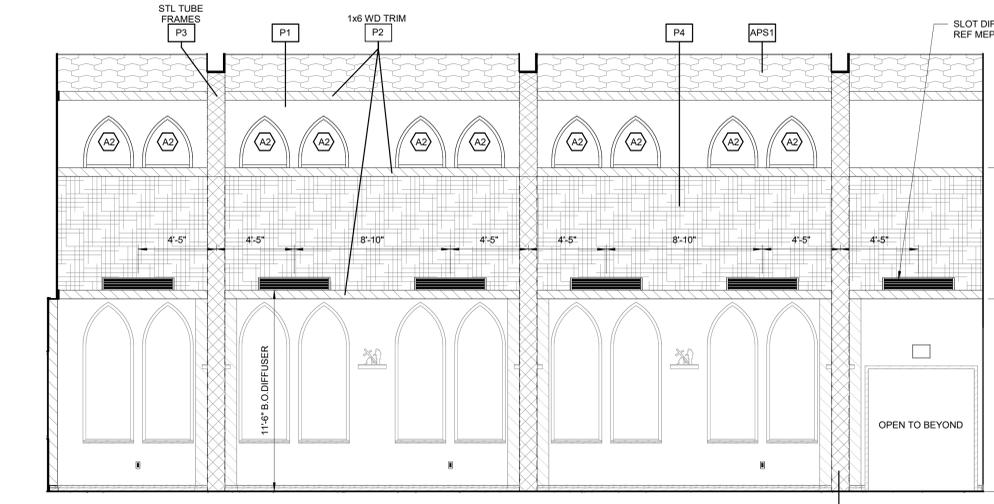
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- PAINTED GYP BD - P2
- PAINTED GYP BD - P3
- PAINTED GYP BD - P4
- PAINTED GYP BD - P5
- STAINED WOOD - WS1
- STAINED WOOD - WS2
- ACOUSTIC WALL PANEL - AFS3 (ALTERNATE #2)
- SPEAKER GRILLE CLOTH - COLOR TO MATCH "P1"
- STONE - ST1
- MATERIAL TAG (REF SHEET A8.0 FOR MATERIAL SCHEDULE)
- WALL MOUNTED CAMERA. REF AV DWGS
- SLOT DIFFUSER / RETURN AIR GRILLE. REF MEP DWGS



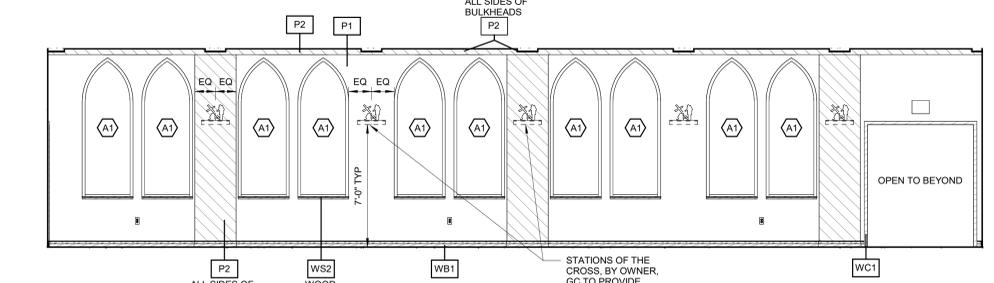
**K1 INT ELEV - 101 NAVE N HIGH**  
 1/4" = 1'-0"



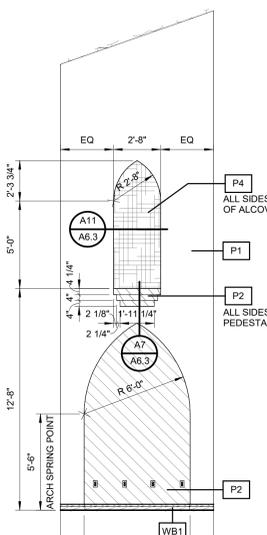
**H1 INT ELEV - 101 NAVE N LOW**  
 1/4" = 1'-0"



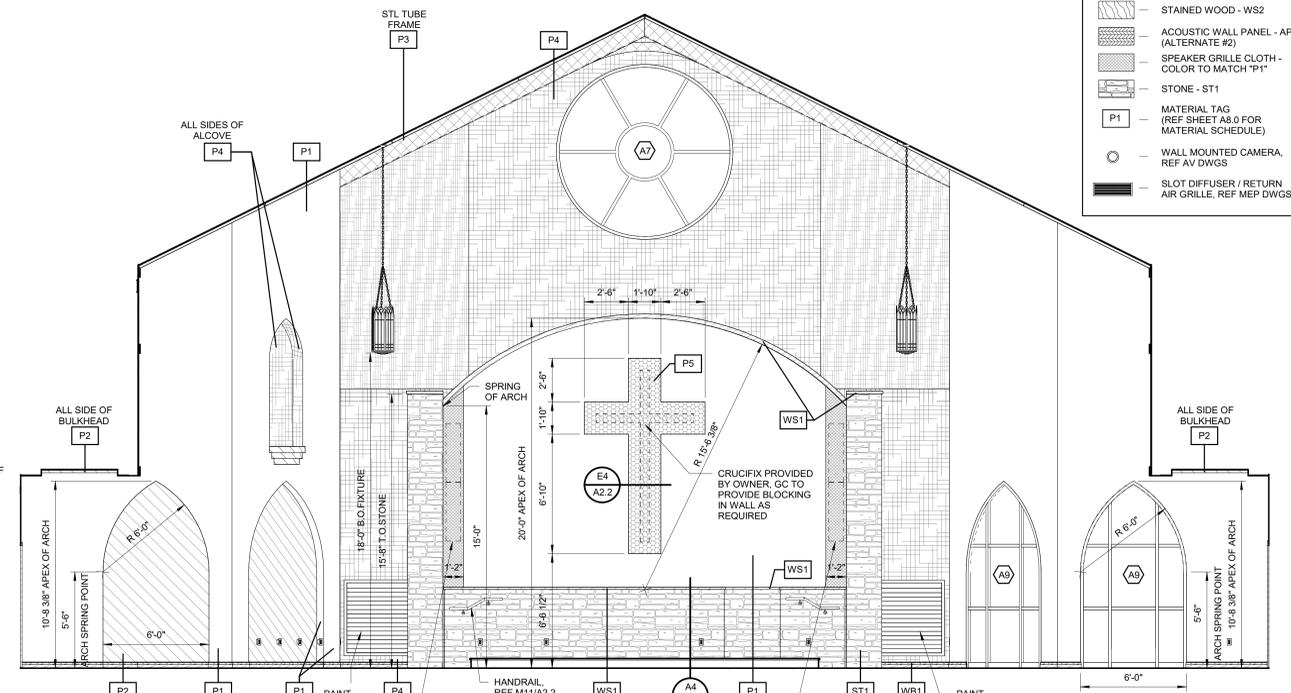
**C1 INT ELEV - 101 NAVE S HIGH**  
 1/4" = 1'-0"



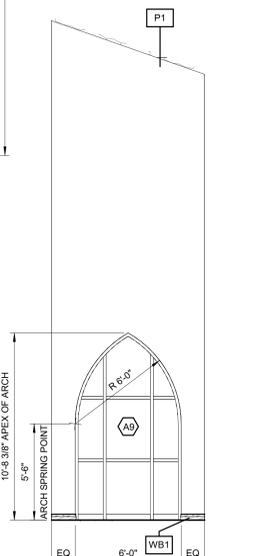
**A1 INT ELEV - 101 NAVE S LOW**  
 1/4" = 1'-0"



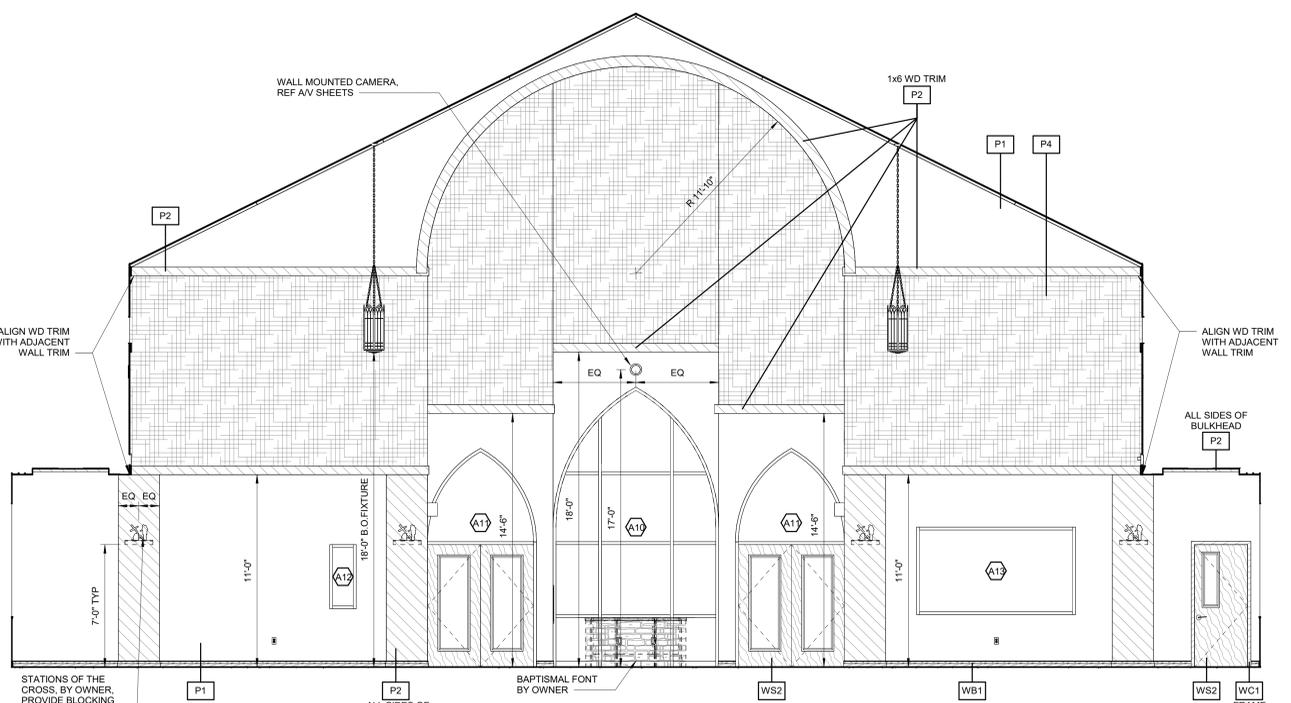
**H8 IE - 101 NAVE SW**  
 1/4" = 1'-0"



**H9 INT ELEV - 101 NAVE W**  
 1/4" = 1'-0"



**A8 IE - 101 NAVE NW**  
 1/4" = 1'-0"



**A9 INT ELEV - 101 NAVE E**  
 1/4" = 1'-0"

**INTERIOR ELEVATION LEGEND**

- PAINTED GYP BD - P1
- PAINTED GYP BD - P2
- PAINTED GYP BD - P3
- PAINTED GYP BD - P4
- PAINTED GYP BD - P5
- STAINED WOOD - WS1
- STAINED WOOD - WS2
- ACOUSTIC WALL PANEL - APS3 (ALTERNATE #2)
- SPEAKER GRILLE CLOTH - COLOR TO MATCH "P1"
- STONE - ST1
- MATERIAL TAG (REF SHEET A8.0 FOR MATERIAL SCHEDULE)
- WALL MOUNTED CAMERA, REF AV DWGS
- SLOT DIFFUSER / RETURN AIR GRILLE, REF MEP DWGS

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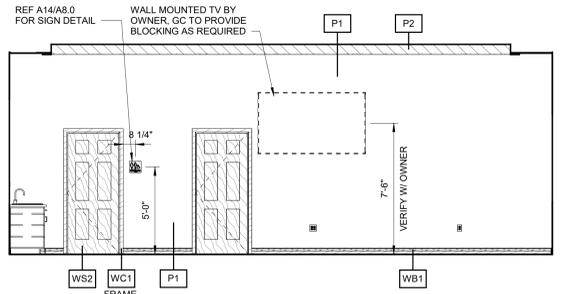
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PLAN NORTH TRUE NORTH

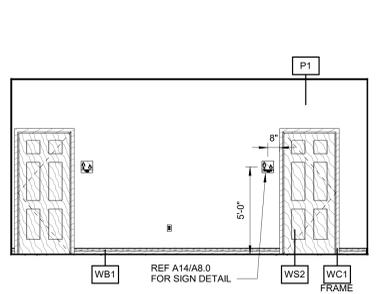
SHEET NAME  
**INTERIOR ELEVATIONS**

SHEET NUMBER  
**A8.5**

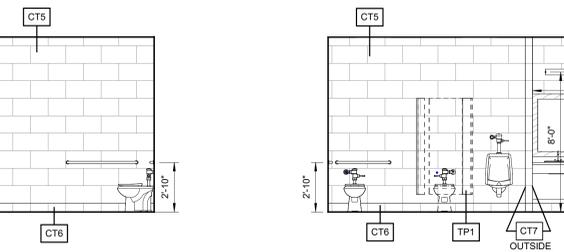
**M1 INT ELEV - 119 ST. ANNE'S ROOM W**  
 1/4" = 1'-0"



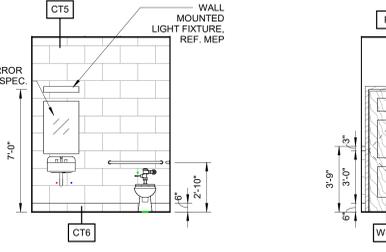
**M4 INT ELEV - 119 ST. ANNE'S ROOM N**  
 1/4" = 1'-0"



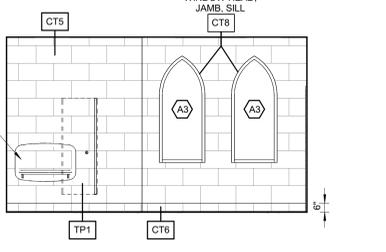
**K1 INT ELEV - 119 ST. ANNE'S ROOM S**  
 1/4" = 1'-0"



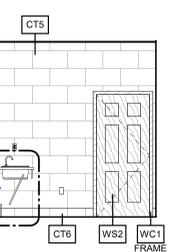
**K14 INT ELEV - 126 VESTIBULE N**  
 1/4" = 1'-0"



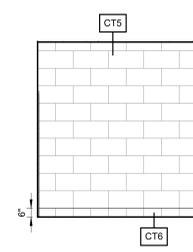
**K11 INT ELEV - SACRISTY N, S**  
 1/4" = 1'-0"



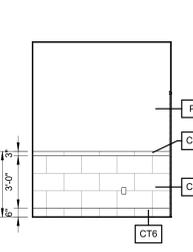
**G1 INT ELEV - 124 MEN N**  
 1/4" = 1'-0"



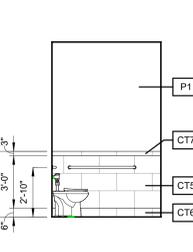
**G3 INT ELEV - 124 MEN E**  
 1/4" = 1'-0"



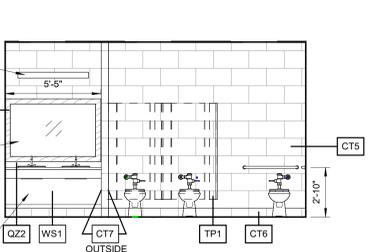
**G7 IE - RESTROOM TYP. 1**  
 1/4" = 1'-0"



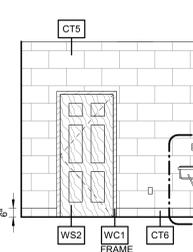
**G9 IE - RESTROOM TYP. 2**  
 1/4" = 1'-0"



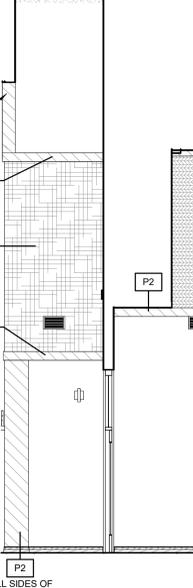
**G11 INT ELEV - 123 WOMEN E**  
 1/4" = 1'-0"



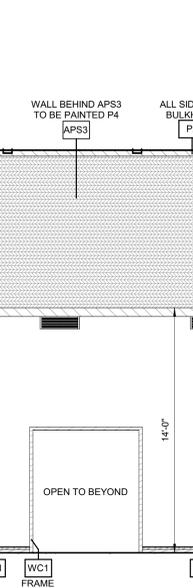
**G14 INT ELEV - 123 WOMEN N**  
 1/4" = 1'-0"



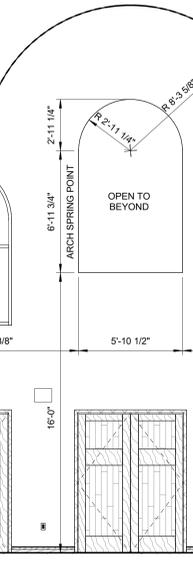
**E1 INT ELEV - 124 MEN S**  
 1/4" = 1'-0"



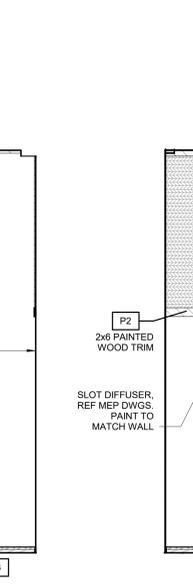
**E3 INT ELEV - 124 MEN W**  
 1/4" = 1'-0"



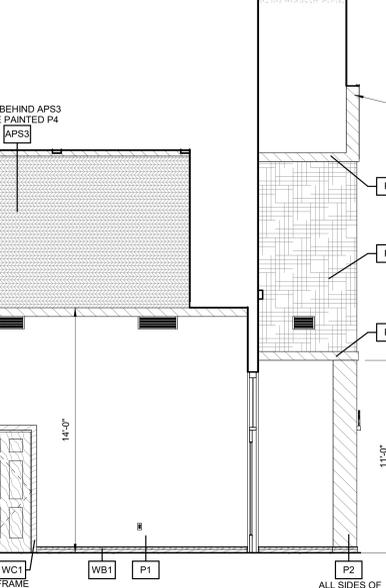
**E7 IE - RESTROOM TYP. 3**  
 1/4" = 1'-0"



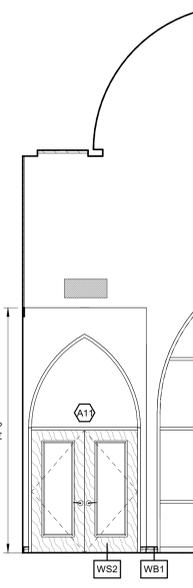
**E9 IE - RESTROOM TYP. 4**  
 1/4" = 1'-0"



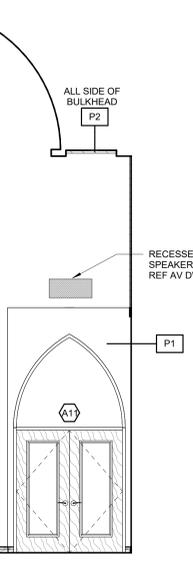
**E11 INT ELEV - 123 WOMEN W**  
 1/4" = 1'-0"



**E14 INT ELEV - 123 WOMEN S**  
 1/4" = 1'-0"



**E17 INT ELEV - 101 NAVE**  
 1/4" = 1'-0"



**A1 INT ELEV - 100 NARTHEX N**  
 1/4" = 1'-0"



**A6 INT ELEV - 100 NARTHEX E**  
 1/4" = 1'-0"



**A10 INT ELEV - 100 NARTHEX S**  
 1/4" = 1'-0"



**A14 INT ELEV - 100 NARTHEX W**  
 1/4" = 1'-0"



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**INTERIOR ELEVATION LEGEND**

- PAINTED GYP BD - P1
- PAINTED GYP BD - P2
- PAINTED GYP BD - P3
- PAINTED GYP BD - P4
- PAINTED GYP BD - P5
- STAINED WOOD - WS1
- STAINED WOOD - WS2
- ACOUSTIC WALL PANEL - APS3 (ALTERNATE #2)
- SPEAKER GRILLE CLOTH - COLOR TO MATCH "P1"
- STONE - ST1
- MATERIAL TAG (REF SHEET A8.0 FOR MATERIAL SCHEDULE)
- WALL MOUNTED CAMERA, REF AV DWGS
- SLOT DIFFUSER / RETURN AIR GRILLE, REF MEP DWGS

**RMA ARCHITECTS & INTERIOR DESIGNERS**  
 311 E. Constitution St., Ste 210  
 Victoria, Texas 77901  
 www.maarch.com

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 REGISTRATION NO. 22147  
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Final Plans for Bidding and Construction

**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH  
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 HOUSTON, TX**

DATE ISSUED:  
**07-02-2025**

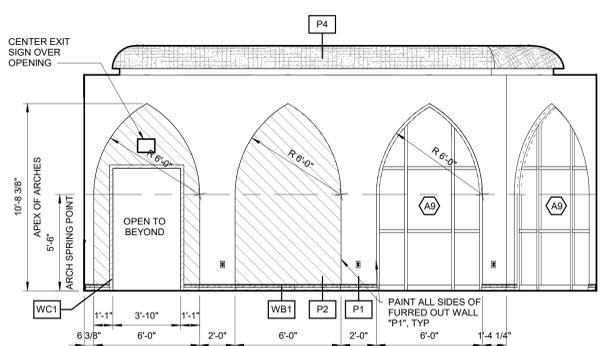
PROJECT NUMBER:  
 1024-0623

PLAN NORTH TRUE NORTH

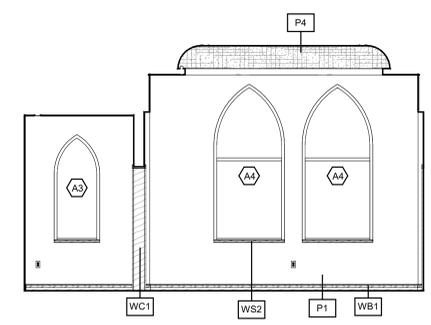
SHEET NAME  
**INTERIOR ELEVATIONS**

SHEET NUMBER

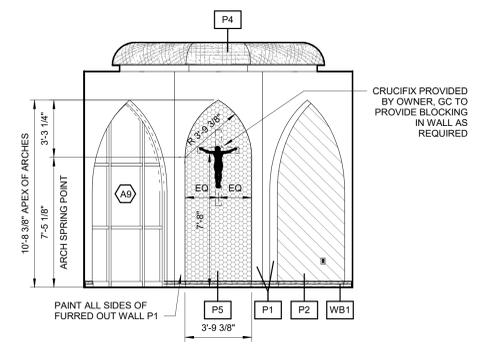
**A8.6**



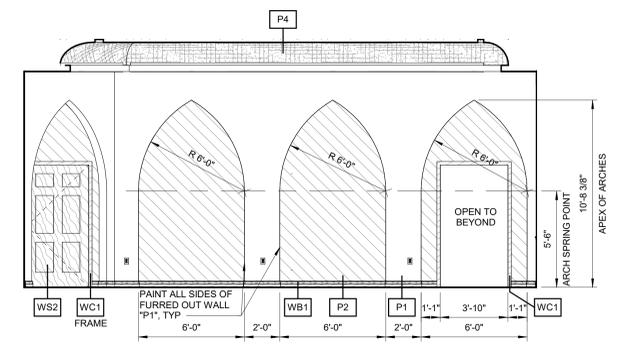
**L1 INT ELEV - 106 CHAPEL E**  
 1/4" = 1'-0"



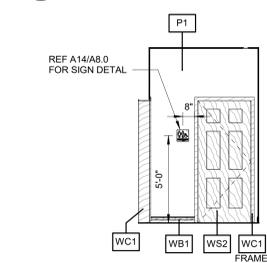
**L5 INT ELEV - 106 CHAPEL N**  
 1/4" = 1'-0"



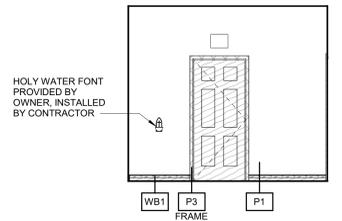
**H1 INT ELEV - 106 CHAPEL S**  
 1/4" = 1'-0"



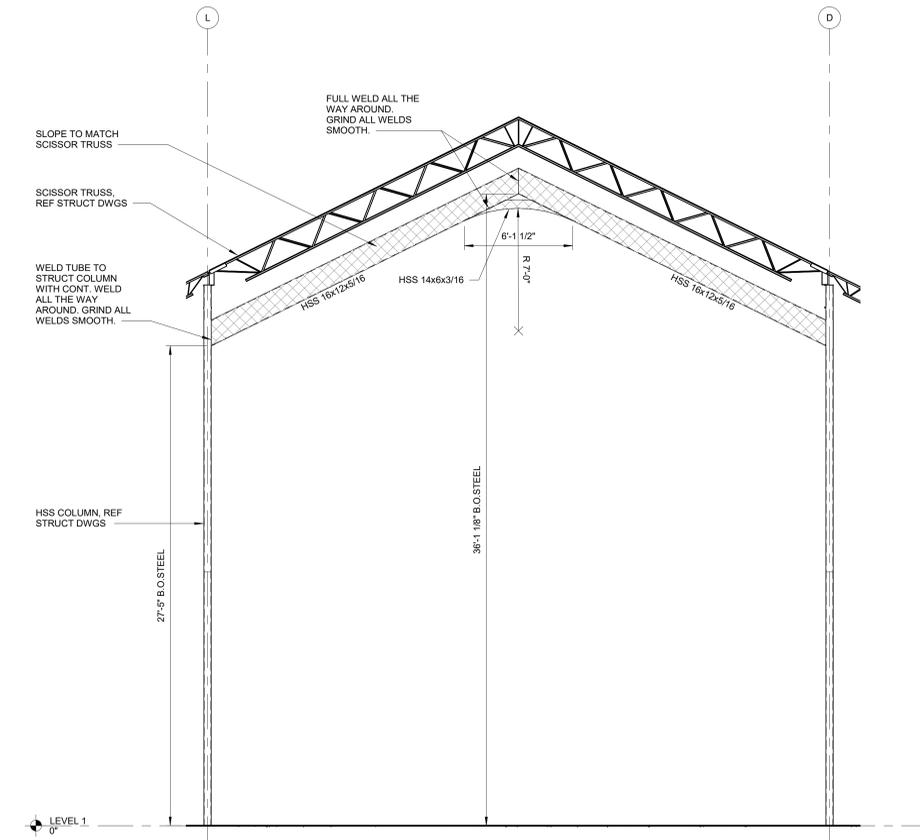
**H5 INT ELEV - 106 CHAPEL W**  
 1/4" = 1'-0"



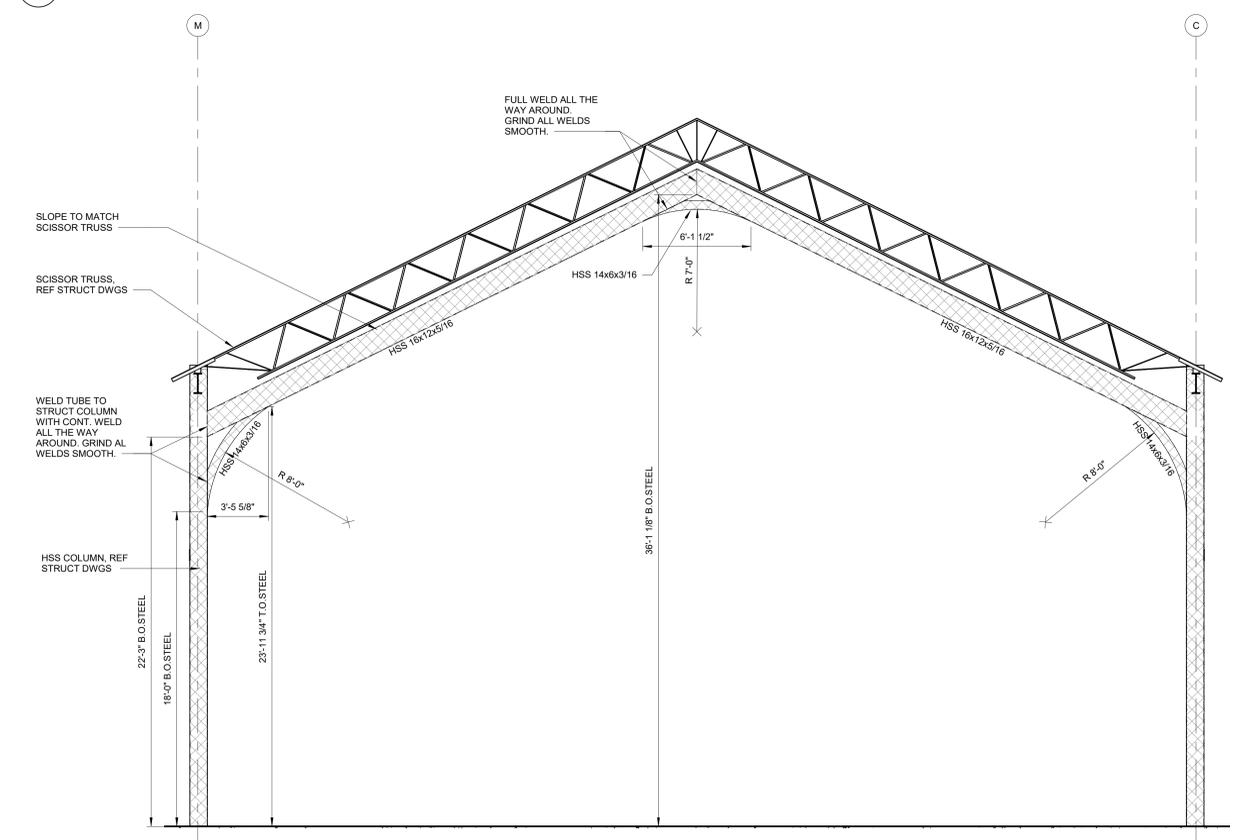
**F1 INT ELEV - 107 VESTIBULE S**  
 1/4" = 1'-0"



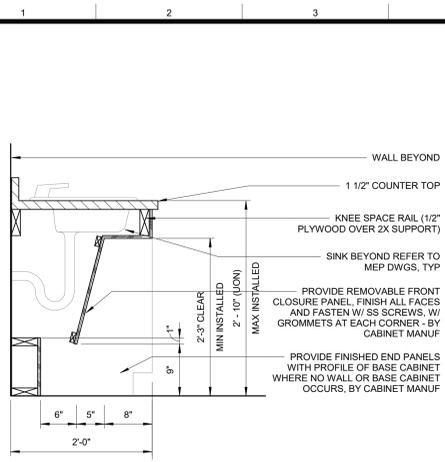
**F5 INT ELEV - 110 VESTIBULE E**  
 1/4" = 1'-0"



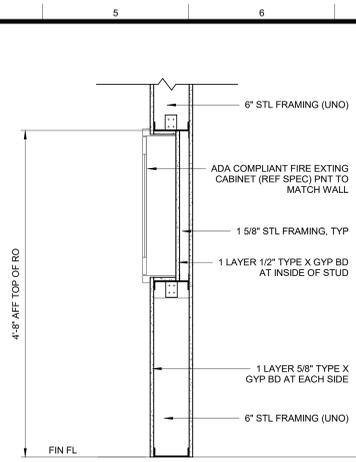
**G11 DECORATIVE TRUSS ELEVATION GRID 3**  
 1/4" = 1'-0"



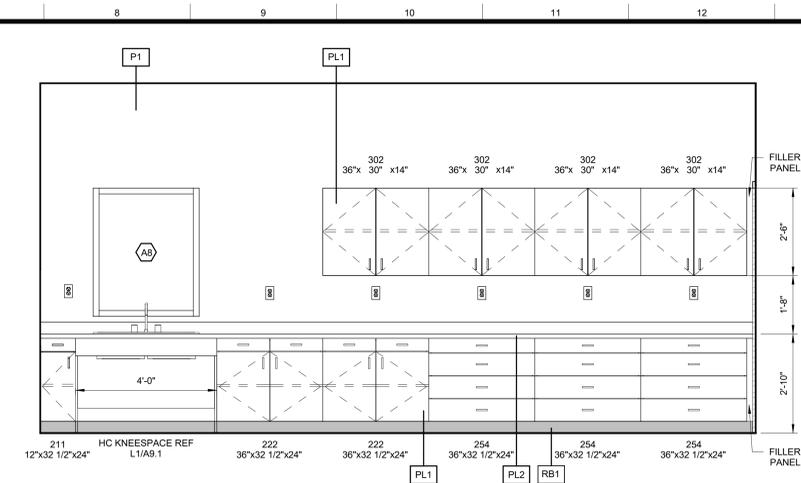
**A11 DECORATIVE TRUSS ELEVATION GRIDS 5, 6, 7**  
 1/4" = 1'-0"



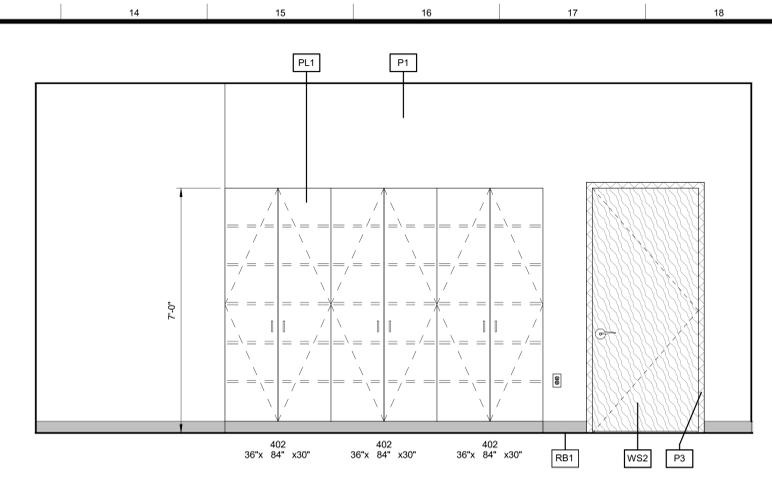
**L1 ADA KNEESPACE DETAIL**  
1" = 1'-0"



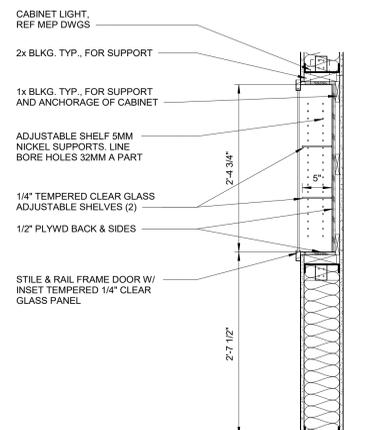
**L4 FIRE EXTINGUISHER CABINET DETAIL**  
1" = 1'-0"



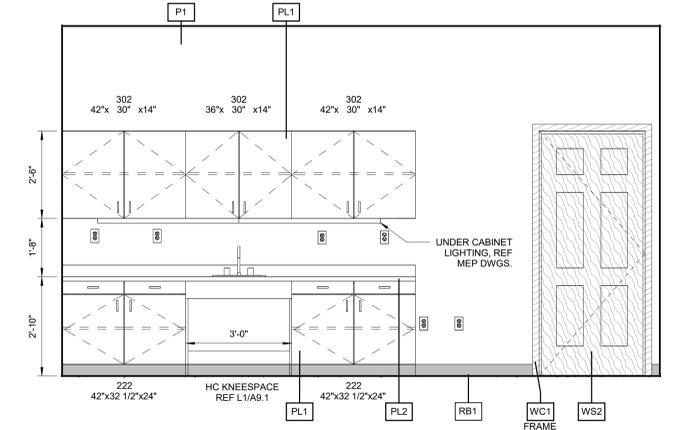
**L8 CSWK ELEV - 105 SACRISTY W**  
1/2" = 1'-0"



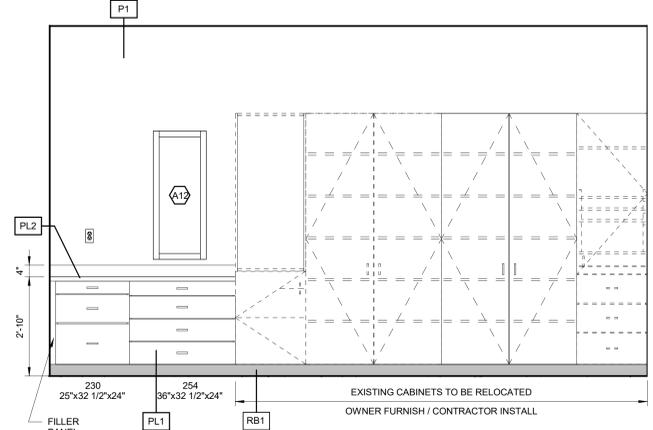
**L13 CSWK ELEV - 105 SACRISTY E**  
1/2" = 1'-0"



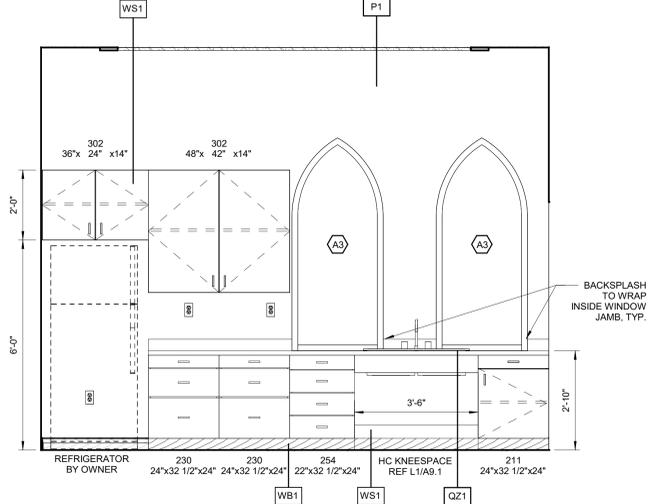
**H1 AMBRY CABINET SECTION**  
1" = 1'-0"



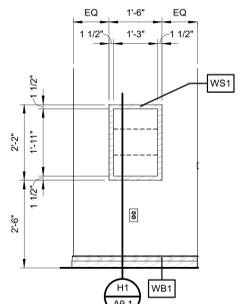
**H5 CSWK ELEV - 125 VESTRY E**  
1/2" = 1'-0"



**H9 CSWK ELEV - 125 VESTRY W**  
1/2" = 1'-0"



**H14 CSWK ELEV - 119 ST. ANNE'S ROOM E**  
1/2" = 1'-0"



**D3 AMBRY CABINET ELEVATION**  
1/2" = 1'-0"

CASEWORK LEGEND	
MODEL# WIDTHxHEIGHTxDEPTH REMARKS	
MODEL# WIDTHxHEIGHTxDEPTH REMARKS	
MODEL# WIDTHxHEIGHTxDEPTH REMARKS	
NOTE: GENERAL CASEWORK MODEL NUMBERS ARE BASED ON ARCHITECTURAL WOODWORKING INSTITUTE STANDARDS AND PROVIDE A BASIS FOR DESIGN. REFER TO SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS. BASE CABINET HEIGHT IS GIVEN TO THE BOTTOM OF 1 1/2\"/>	

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STATE OF TEXAS

Final Plans for Bidding and Construction

REGISTERED ARCHITECT  
STATE OF TEXAS  
22147  
7.2.25

**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
DIOCESE OF VICTORIA  
HOUSTON, TX

DATE ISSUED:  
**07-02-2025**

PROJECT NUMBER:  
1024-0623

SHEET NAME:  
**INTERIOR & MILLWORK/CASEWORK ELEVATIONS**

SHEET NUMBER:  
**A9.1**

### SHOP DRAWING NOTES

- SHOP DRAWINGS (04-00):**
- A. MECHANICAL CONTRACTOR TO HAVE STAMPED AND REVIEWED DUCT SHOP DRAWINGS PRIOR TO INSTALLATION OF ANY DUCTWORK IN FIELD.
  - B. **ITEMS TO COORDINATE WITH ALL ROOF MOUNTED EQUIPMENT AND PENETRATIONS:**
  - C. COORDINATE FINAL LOCATION OF ROOF MOUNTED EQUIPMENT SO THAT IT IS LOCATED OUTSIDE THE 10 FOOT CLEARANCE AREA REQUIRED.
  - D. COORDINATE WITH ROOF DRAINS AND VALLEYS CREATED BY TAPERED INSULATION.
  - E. ALL OUTSIDE AIR INTAKES MUST BE LOCATED A MINIMUM OF 10 FEET AWAY FROM EXHAUST OUTLETS AND PLUMBING VENTS (**COORDINATE PLUMBING VENT LOCATIONS WITH PLUMBING CONTRACTOR IN SHOP DRAWINGS**) WHERE POSSIBLE PROVIDE 15 FEET OF CLEARANCE. IF ANY CODE OR ORDINANCE IS MORE STRINGENT, GO BY THAT CODE.
  - F. **LOUVERS: COORDINATE EXACT LOCATIONS, ELEVATIONS AND FINAL SIZES WITH ARCHITECT. IF THE SIZE OF A LOUVER MUST BE ALTERED THE NEW SIZE MUST HAVE THE SAME PERFORMANCE AS THE SCHEDULED LOUVER. VERIFY NEW SIZE WITH ENGINEER.**
  - G. SHOW MANUFACTURER'S SERVICE AND OPERATING CLEARANCES AND CODE REQUIRED SEPARATIONS (SUCH AS EXHAUST SEPARATION FROM OUTSIDE AIR INTAKES) ON SHOP DRAWINGS
  - H. COORDINATE WITH STRUCTURAL FOR ROOF FRAMING THAT WILL NEED TO BE RELOCATED OR RESIZED DUE TO FINAL LOCATIONS AND SUBMITTED EQUIPMENT REQUIREMENTS.
  - I. ROOF MOUNTED ELECTRICAL PANELS AND TRANSFORMERS. (SHOW ON MECHANICAL SHOP DRAWINGS)
  - J. DON'T LOCATION MECHANICAL EQUIPMENT OVER ELECTRICAL OR TECHNOLOGY ROOMS.
  - K. CONTRACT DOCUMENTS ARE DIAGRAMMATIC(QD0300). IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY AND PROVIDE MANUFACTURER'S REQUIRED SERVICE AND OPERATING CLEARANCES FOR ALL ROOF MOUNTED EQUIPMENT. IF THESE CLEARANCES ARE NOT PROVIDED IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE EQUIPMENT INCLUDING BUT NOT LIMITED TO STRUCTURAL, ROOFING, ELECTRICAL, PLUMBING, ETC. THAT ARE REQUIRED TO RELOCATE EQUIPMENT. ANY DEVIATION FROM PROVIDING MANUFACTURER'S REQUIRED SERVICE AND OPERATING CLEARANCE, ROOFING AND ARCHITECTURAL REQUIREMENTS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT **DURING THE SHOP DRAWING PHASE**. PRIOR TO INSTALL.
  - L. MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS ARE TO FULLY COORDINATE ROUTING OF ALL PIPING, AND CONDUIT ON ROOF PRIOR TO INSTALLATION OF ANY SYSTEMS TO MINIMIZE THE NUMBER OF SYSTEMS THAT WILL NEED TO CROSS. ALL PIPING AND CONDUIT MUST BE ROUTED OUT OF EQUIPMENT SERVICE AREAS, PIPING, CONDUIT, DISCONNECTS, VALVES, ETC. MUST BE INSTALLED SO THAT THEY DO NOT INTERFERE WITH THE REMOVAL OF OR HINGED OPENING OF SERVICE ACCESS DOORS. ALL CONTRACTORS ARE TO REFERENCE THE MEP, ROOFING CONSULTANT AND ARCHITECTURE PLANS AND SPECIFICATIONS FOR ALL REQUIREMENT.
  - M. SHOW ALL CONTROL DEVICE LOCATIONS; THERMOSTAT, HUMIDITY SENSOR, CO2 SENSOR.
  - N. ELECTRICAL / TECHNOLOGY ROOMS: DON'T INSTALL DUCTWORK ABOVE THESE ROOMS.

### DUCTWORK GENERAL NOTES

- THESE NOTES APPLY TO ALL MECHANICAL PLANS.
- DUST BUSTER DUCTWORK PROTECTION DETAIL:**  
ALL OPENINGS OF DUCTWORK AND MECHANICAL EQUIPMENT MUST BE COVERED WITH PLASTIC AND TIGHTLY SEALED TO PREVENT DUST AND CONSTRUCTION DEBRIS FROM ENTERING SYSTEMS. THIS INCLUDES EQUIPMENT AND DUCTWORK STORED ON SITE. IF THE MECHANICAL EQUIPMENT IS OPERATED PRIOR TO ACCEPTANCE OF THE BUILDING BY OWNER, ALL OUTLET AND INLETS OF THE SYSTEM MUST BE PROTECTED WITH ROLLED FILTER MEDIA EQUAL TO (FIBERBOND DUAL-PLYDUSTLOC MEDIA). UNITS MUST BE SHUT DOWN WHEN PAINTING, SANDING AND SIMILAR CONSTRUCTION OPERATIONS ARE BEING PERFORMED. SYSTEMS THAT ARE OPERATED DURING CONSTRUCTION SHOULD BE CLEANED TO NEW CONDITION BEFORE FINAL PAYMENT WILL BE APPROVED. ITEMS TO BE CLEANED INCLUDE: WHOLE DUCT SYSTEM, AIR DEVICES, BLOWERS, MOTORS, UNIT CASING, EVAPORATOR COILS, CONDENSER COILS AND ALL OTHER COMPONENT EFFECTED BY THE OPERATION OF THE SYSTEMS.
- SOUND BOOT:** ALL NON-DUCTED RETURN AIR / TRANSFER AIR GRILLES TO HAVE A SITE BAFFLE EQUIVALENT TO PRICE MODEL PAC. RETURN AIR CANOPY, OR AN INTERNALLY LINED 90 DEGREE ELBOW THAT IS SUSPENDED FROM THE STRUCTURE.
- PAINTED DUCTWORK NOTES:**
- A. \* ALL DUCTWORK LOCATED IN EXPOSED AREAS (NO CEILING OR FLOPING CLOUDS) IS TO BE PAINTED AS DIRECTED BY THE ARCHITECT.
  - B. DUCTWORK TO BE PAINTED IS TO BE FABRICATED WITH PAINT GRIP (PHOSPHATIZED) METAL.
  - C. ALL EXPOSED DUCTWORK TO BE FABRICATED AND INSTALLED IN A NEAT WORKMANLIKE MANNER FREE OF DENT AND BLEMISHES.
  - D. DO NOT WRITE ON THE OUTSIDE OF THE DUCTWORK WITH A PERMANENT MARKER OR ANY OTHER MARKER THAT WILL BLEED THROUGH PAINT.
  - E. DO NOT PLACE STICKERS ON THE OUTSIDE OF DUCT WORK.
  - F. THESE NOTES APPLY TO ALL EXPOSED DUCTWORK ON THE ENTIRE PROJECT.
- EXPOSED DUCTWORK NOTES:**
- A. ALL OVAL/SPIRAL DUCTS ARE TO HAVE PAINTGRIP OUTER JACKET AND PERFORATED INNER LINER.
  - B. RECTANGULAR DUCTS LOCATED IN EXPOSED AREAS ARE TO HAVE INTERNAL LINER AND BE FABRICATED FROM PAINTGRIP SHEETS.
  - C. ALL EXPOSED DUCT TO BE SEALED WITH PAINTABLE DUCT SEALANT FROM A CAULKING GUN IN A NEAT WORKMAN LIKE MANNER.
  - D. DUCTS THAT ARE NOT SEALED NEATLY WILL BE REMOVED AND REPLACED AT CONTRACTORS COST.
  - E. ALL EXPOSED DUCT TO BE INSTALLED IN A NEAT WORKMAN LIKE MANNER FREE OF DENTS, OIL CANNING, OR DISCOLORATION.
  - F. ALL DAMAGED SECTIONS WILL BE REPLACED.
  - G. PROVIDE AN ESCUTCHEON AROUND DUCT AT ALL WALL OR BULKHEAD PENETRATIONS.
  - H. EXPOSED DUCTWORK TO BE COORDINATED WITH LIGHTS PRIOR TO INSTALLATION. THIS SHOULD BE DONE DURING SHOP DRAWING PHASE. DURING CONSTRUCTION GENERAL LIGHTS TO BE INSTALLED TO PREVENT SHADOWING. GENERALLY DUCTWORK SHOULD BE ABOVE LIGHTS. IF THERE IS A CONFLICT NOTIFY ENGINEER FOR ADJUSTED LAYOUT PRIOR ANY PRODUCT INSTALL.
  - I. DUCT MOUNTED GRILLES ON OVAL AND ROUND DUCTS TO BE INSTALLED AT 30 DEGREES BELOW HORIZONTAL OR AS REQUIRED FOR OPTIMAL AIR DISTRIBUTION. DUCT MOUNTED ON RECTANGULAR DUCTS ARE TO HAVE A TAP WITH RADIUS ELBOW IN ORDER TO INSTALL GRILLE AT 30 DEGREES BELOW HORIZONTAL OR AS REQUIRED FOR OPTIMAL AIR DISTRIBUTION. COORDINATE WITH EACH SPACE.
- DUCTWORK INSULATION NOTES**
- A. ALL DUCTWORK TO BE EXTERNALLY INSULATED WITH R-8 INSULATION, REFERENCE SPECIFICATIONS FOR ALL REQUIREMENTS.
  - B. ALL DUCT SIZES LISTED ON THE PLANS ARE CLEAR INSIDE DIMENSIONS.
  - C. SUPPLY / RETURN / MOUNTED EQUIPMENT TO BE INTERNALLY INSULATED DOWN PAST THE FIRST 90 DEGREE ELBOW. REFERENCE SPECIFICATIONS FOR ALL REQUIREMENTS.
  - D. DUCTWORK SERVING THE FOLLOWING AREAS ARE TO BE INTERNALLY LINED WITH 2" ACOUSTICAL INSULATION. SHOULD AN ALTERNATE DUCT SIZE BE REQUIRED, SIZE THE NEW DUCT WITH AN EQUIVALENT ASPECT RATIO.
    - AUDITORIUM
    - STAGE
    - THEATRE ARTS CLASSROOM
    - BAND HALL CHOIR
    - ENSEMBLE, OTHER ASSOCIATED ROOMS IN SAME SPACE.
    - PRACTICE ROOMS - MINIMUM 3 90DEGREE BENDS IN DUCT TO SERVE
    - REFERENCE INSULATION SPECIFICATION SECTION 20 07 00 "SOUND CONTROL" FOR MORE INFORMATION.
- TRANSFER AIR NOTES:**
- A. ALL WALLS TO DECK ARE TO HAVE TRANSFER AIR OPENINGS TO ALLOW FOR OUTSIDE AIR TO BE RELIEVED OUT OF THE BUILDING THROUGH THE BAROMETRIC RELIEF DAMPER AND ALSO PROVIDE MAKEUP AIR TO ALL EXHAUST FAN.
  - B. TRANSFER AIR OPENINGS ARE TO HAVE INTERNALLY LINED DUCTS WITH 90 DEGREE ELBOWS TURNED UP ON BOTH ENDS.
  - C. WHEN TRANSFER AIR DUCTS ARE LOCATED IN WALLS SURROUNDING SOUND CRITICAL ROOMS AS LISTED IN ACOUSTICAL ENGINEERING DOCUMENT, PROVIDE 2" ACOUSTICAL LINER AND ANY OTHER REQUIREMENTS LISTED IN THE ACOUSTICAL ENGINEER'S DOCUMENT.
  - D. MINIMUM SIZE OF TRANSFER DUCT (INSIDE CLEAR DIMENSION) TO BE 14"x12" UNLESS OTHERWISE NOTED.
  - E. TRANSFER AIR OPENINGS TO BE SIZED BASED ON AMOUNT OF AIR REQUIRED TO PASS THROUGH WALL. TYPICAL WALLS -0.05" W.G. PER 100' SOUND WALLS - 450 FPM MAX.
  - F. REFERENCE ARCHITECTURAL PLANS AND FIELD VERIFY WALLS TO DECK.
- GYM STRUCTURAL NOTES:** COORDINATE ALL DUCTWORK IN GYM WITH STRUCTURAL TRUSSES, JOISTS AND BRIDING, AND BASKET GOAL FRAMING AND STRUCTURAL SUPPORTS DURING SHOP DRAWING PHASE.
- DUCT NOTE:** TRANSITION FROM DUCT SIZE SHOWN TO ROOF OPENING SIZE FOR EXHAUST FANS AND OTHER ROOF MOUNTED EQUIPMENT. ALLOW FOR CLEARANCE BETWEEN STRUCTURAL JOISTS. ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. ALL DUCTS 30" AND LARGER IN ANY DIMENSION TO HAVE DUCTMATE FITTINGS.
- DUCT NOTE:** ALL ACCESS DOORS SHALL BE INSTALLED IN EASILY ACCESSIBLE LOCATIONS. RELOCATE ANY ACCESS DOOR THAT IS NOT INSTALLED IN THIS MANNER. THIS SHALL BE DONE AT NO ADDITIONAL COST TO OWNER. INSTALL MINIMUM 12" x 12" HINGED ACCESS DOORS WITH CAM LOCKS AT ENDS. ALL DUCT RUNS, AT 20 INCHES ALONG LENGTH OF RUN, AND ON EACH SIDE OF ELBOWS WITH TURNING VANES. REFERENCE SPECIFICATIONS FOR MORE INFORMATION.
- DUCT NOTE: BALANCING DAMPER:** ALL SUPPLY BRANCH DUCTS ARE TO HAVE BALANCING DAMPERS WITH MANUAL LOCKING QUADRANT OPERATORS. PROVIDE STAND-OFF BRACKETS EQUIVALENT TO INSULATION THICKNESS. PROVIDE BALANCING DAMPERS IN OTHER DUCT SYSTEMS AS REQUIRED TO PROPERLY BALANCE SYSTEMS. SINGLE BLADE DAMPERS ARE ACCEPTABLE IN DUCTS 14" ROUND OR 14" TALL. LARGER DUCTS TO HAVE MULTIPLE BLADE DAMPERS. ALL DAMPER BLADES AND HARDWARE ARE TO BE FABRICATED OF SUFFICIENT GAGE AND HAVE REINFORCEMENTS AS REQUIRED TO PREVENT VIBRATION. BALANCING DAMPERS ARE TO BE INSTALLED IN AN EASILY ACCESSIBLE LOCATION, WITHIN 4 FEET OF CEILING. IF BRANCH DUCT TAP IS INSTALLED MORE THAN 4 FEET ABOVE CEILING, BALANCING DAMPER IS TO BE INSTALLED DOWN STREAM OF TAP TO MEET ACCESSIBILITY REQUIREMENTS.
- CONCEALED CEILING: BALANCING DAMPER:** ALL AIR DEVICES LOCATED IN INACCESSIBLE CEILING ARE TO HAVE BALANCING DAMPERS INSTALLED IN THE NECK OF THE SUPPLY GRILLE WITH A CABLE OPERATOR THAT ARE ACCESSIBLE THROUGH THE FACE OF THE GRILLE. COORDINATE INACCESSIBLE CEILING AREAS WITH ARCHITECTURAL REFLECTED PLANS.
- FAN POWER BOX AND VAV BOX:** PRIMARY DUCT SIZE TO MATCH SIZE LISTED IN SCHEDULES. PROVIDE ROUND DUCT WHERE SPACE ALLOWS. PROVIDE VAV DUCT WHERE REQUIRED BY SPACE LIMITATIONS.

### MECHANICAL EQUIPMENT SUBMITTAL AND START-UP REQUIREMENTS

- A. **MECHANICAL EQUIPMENT SUBMITTALS (ALL EQUIPMENT: RTU, MAU, AHU, VAV, FANS, VAV/FP BOX, EC, CHILLER, PUMPS, ETC.)** ELECTRICAL CONTRACTOR FOR COORDINATION AND TO BE COMPLETED AND INCLUDED WITH EQUIPMENT SUBMITTAL. DISTRIBUTE FORM TO GC AND MECHANICAL CONTRACTOR FOR COORDINATION AND TO BECOME PART OF THE ELECTRICAL GEAR SUBMITTAL. THIS FORM CAN BE FOUND IN SPECIFICATION SECTION 20 00 00.
  - 1. **A WRITTEN "CONTROL POINTS LIST WIRING DIAGRAM" AND FULL ELEMENTARY NARRATIVE** OF EVERYTHING NEEDED FOR PROPER START UP / SETUP, CONTROL, INTEGRATION, TEST AND BALANCE PROCEDURES AND CONTINUED OPERATION OF SUPPLIED EQUIPMENT. DISTRIBUTE TO THE GC AND THE MECHANICAL CONTRACTOR AND IS TO BECOME PART OF THE CONTROL SUBMITTAL.
  - 2. WHEN "STANDARD THERMOSTAT CONTROL INTERFACE" IS USED, PROVIDE WIRING DIAGRAM FOR CONNECTION FROM THERMOSTAT TYPE INTERFACE AND NARRATIVE OF WHAT SIGNALS ARE REQUIRED FOR EACH MODE OF OPERATION.
  - 3. **FAN SUBMITTALS ARE TO INCLUDE FAN CURVES** SHOWING SELECTED OPERATION POINT AS WELL AS LOWEST POSSIBLE AND HIGHEST POSSIBLE OPERATION POINTS WITH SELECTED MOTOR AND DRIVE.
  - 4. FAILURE TO FOLLOW THESE REQUIREMENTS WILL RESULT IN AN IMMEDIATE FLAT REJECTION OF THE SUBMITTAL.
- B. **MECHANICAL EQUIPMENT START-UP:**
  - 1. **START-UP COORDINATION MEETING:** PRIOR TO WHEN EQUIPMENT IS READY FOR START-UP THE MECHANICAL CONTRACTOR IS TO SET UP A MEETING ON SITE WITH EQUIPMENT VENDORS, FACTORY SERVICE AND START-UP TECHNICIAN, CONTROLS CONTRACTOR AND T&B CONTRACTOR TO COORDINATE FINAL START-UP AND DDC SYSTEM INTEGRATION.
  - 2. **PRELIMINARY START-UP:** THE MECHANICAL CONTRACTOR IS TO PERFORM THE PRELIMINARY START-UP OF MECHANICAL EQUIPMENT MAKING SURE THAT THE UNIT IS PHASED CORRECTLY AND ALLOWING IT TO RUN ON INTERNAL CONTROLS OR TEMPORARY CONTROLS UNTIL FINAL START-UP/CONTROL INTEGRATION AND T&B ARE DONE. TEMPORARY FILTERS MUST BE IN PLACE AND MAINTAINED ON A REGULAR BASIS.
  - 3. **FINAL START-UP:** MECHANICAL EQUIPMENT VENDORS FACTORY SERVICE AND START-UP TECHNICIAN (NOT THE MECHANICAL CONTRACTOR'S SERVICE TECHNICIAN, EVEN WHEN CERTIFIED) WILL ASSIST MECHANICAL CONTRACTOR AND CONTROLS CONTRACTOR WITH FINAL START-UP AND DDC SYSTEM INTEGRATION. ALL ARE TO BE ON SITE AT THE SAME TIME. THIS IS A NON-NEGOTIABLE REQUIREMENT AND IS NOT OPTIONAL FOR ANY CONTRACTOR OR VENDOR. FINAL ACCEPTANCE AND PAYMENT WILL NOT BE MADE IF THIS IS NOT FOLLOWED.
  - 4. **VENDOR START-UP** INCLUDES BUT IS NOT LIMITED TO ALL COMPRESSORIZED PIECES OF EQUIPMENT, BOILERS, TOWERS, FLUID COOLERS, VFD'S, ETC.
  - 5. **EQUIPMENT SETTINGS:** INTERNAL EQUIPMENT SETTINGS(FIELD SETTINGS) AND CONTROLS SETTINGS REQUIRED TO ACHIEVE OPERATIONAL CHARACTERISTICS OF THIS JOB AND ARE TO BE SETUP BY VENDOR AND CONTROL CONTRACTOR AS REQUIRED TO PROPERLY INTEGRATE WITH DDC SYSTEM SIGNALS, AND THEN DOCUMENTED IN THE UNIT CABINET AND IN EQUIPMENT START-UP FORMS AND AS-BUILTS.
  - 6. **ALL SPACE SENSORS/THERMOSTATS ARE TO BE CALIBRATED** SO THAT TEMPERATURE INDICATED IS WITHIN ONE DEGREE F OF ACTUAL TEMPERATURE.
  - 7. **START-UP OF SIMILAR UNITS:** WHEN THERE ARE MULTIPLE OF THE SAME EXACT SAME TONNAGE, OPTIONS AND STYLE OF UNIT, ONE MAY BE SET UP BY THE VENDORS TECHNICIAN WITH ASSISTANCE FROM CONTRACTORS TECHNICIANS AND THE REMAINDER CAN BE SET UP BY CONTRACTORS TECHNICIAN. THE CONTROLS CONTRACTOR AND T&B CONTRACTOR ARE TO MATCH IT FOR INTEGRATION.
  - 8. **TEST AND BALANCE CONTRACTOR IS TO BE PART OF THE FINAL START-UP PROCESS** TO MAKE SURE THE CORRECT CFM IS PROPERLY SET FOR ALL HEATING AND COOLING STAGES OF UNIT OPERATION, AND THAT OUTSIDE AIR DAMPER POSITIONS ARE DOCUMENTED IN WRITING REPORTED TO THE CONTROLS CONTRACTOR (FOR EACH UNIT).
  - 9. **PRIOR TO FINAL START-UP CONTACT ENGINEER** MINIMUM OF 3 DAYS BEFORE FINAL START-UP/CONTROL. INTEGRATION WILL BE PERFORMED ON SITE SO THAT ENGINEER MAY BE PRESENT DURING PART OF THIS WORK AT ENGINEER'S DISCRETION.
  - 10. **PERFORMANCE VERIFICATION:** ALL SEQUENCES FOR EACH UNIT'S OPERATION ARE TO BE CONFIRMED WITH THE BUILDING CONTROL SYSTEM INITIATING EACH CALL. JUMPING UNIT CONTROLS OR RUNNING EQUIPMENT ON INTERNAL CONTROLS TO CONFIRM OPERATION IS NOT ACCEPTABLE.
  - 11. **AFTER FINAL START-UP:** UNITS MUST BE LEFT IN FULL CONTROL BY THE DDC SYSTEM, NOT ON UNITS INTERNAL CONTROLS.
  - 12. **FINAL START-UP SHEETS** IS TO BE SIGNED AND DATED BY ALL PARTIES DURING THIS PROCESS.
  - 13. **CONTRACTOR READINESS FORMS:** PROVIDE CONTRACTOR READINESS FORM FOR EACH PIECE OF EQUIPMENT, SIGNED AND DATED WITH PHONE NUMBER FOR PERSON COMPLETING FORM. AS PART OF FINAL START-UP INFORMATION.
  - 14. **REFERENCE SPECIFICATIONS** FOR FURTHER INFORMATION.
- C. **SEQUENCE OF OPERATION - REFERENCE SPECIFICATIONS.**
  - 1. FIRST STAGE OF COOLING IS TO BEGIN ONCE SETPOINT HAS BEEN EXCEEDED BY ONE DEGREE F. COOLING IS SUSPENDED ONCE IT IS ONE DEGREE BELOW SETPOINT.
  - 2. SECOND STAGE COOLING TO BEGIN ONCE SETPOINT IS EXCEEDED BY TWO DEGREES. SECOND STAGE COOLING WILL CEASE AND UNIT WILL REMAIN IN FIRST STAGE ONCE SPACE IS WITHIN ONE DEGREE OF SETPOINT.
  - 3. STAGE UP AND STAGE DOWN TO EXTEND COOLING CYCLES.
  - 4. HEATING IS TO BE CONTROLLED IN A SIMILAR FASHION.

### PLENUM RETURN NOTES

- A. **EVERYTHING IN PLENUM MUST BE 25/90 RATED.**
- B. **WALLS TO DECK WITHOUT PROPER TRANSFER OPENINGS** POSE SERIOUS RESTRICTIONS TO RETURN AIR FLOW AND EXHAUST FAN MAKE-UP. THIS HAMPERS HVAC PERFORMANCE. EVERY ATTEMPT IS MADE TO SHOW TRANSFER OPENINGS IN PENETRABLE WALLS (NOT RATED STAIRWAY OR SCIENCE ROOM, WALLS, ETC.) KNOWN TO GO UP TO DECK UNDER DESKIN. IN ORDER TO INSURE FULL RETURN PATHS ARE MAINTAINED DURING CONSTRUCTION THE FOLLOWING COORDINATION IS REQUIRED: PRIOR TO WALL CONSTRUCTION THE GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR ARE TO MARK UP MECHANICAL FLOOR PLANS) HIGHLIGHTING IN YELLOW WHERE ANY WALL WILL GO TO DECK. INDICATE A BULKHEAD OR ANYTHING SIMILAR GOING TO DECK ABOVE CEILING LEVEL IN BLUE HIGHLIGHTING. INDICATE FIRE/SMOKE WALLS WITH ORANGE HIGHLIGHTING AND INDICATE TRANSFER OPENINGS WITH GREEN HIGHLIGHTING. PROVIDE COPY TO ENGINEER A MINIMUM OF 3 WEEKS PRIOR TO GYP BEING INSTALLED ON WALLS FOR INSTRUCTIONS ON WHERE TO ADD ADDITIONAL WALL OPENINGS AND SIZE REQUIRED FOR PROPER TRANSFER OF RETURN AIR. WHEN ADDITIONAL WALLS OR THINGS LIKE BULKHEADS ARE RUN TO DECK ADDITIONAL TRANSFER OPENINGS MUST BE CREATED. IT IS CONTRACTORS RESPONSIBILITY TO INSURE THAT THERE IS A SUFFICIENT AIR PATH AROUND OR THROUGH SUCH OBSTACLES. ANY NOT CAUGHT DURING CONSTRUCTION ARE TO BE ADDED AT NO ADDITIONAL COST POST CONSTRUCTION AS REQUIRED. PASSING AN ABOVE CEILING INSPECTION DOES NOT RELIEVE THIS REQUIREMENT. DUCTED TRANSFERS ARE NOT REQUIRED WHEN A GIVEN WALL DOES NOT ACTUALLY GO TO DECK, EVEN WHEN A TRANSFER IS SHOWN. THIS WORK AND COORDINATION IS TO BE INCLUDED IN BID AND IS TO BE DONE AT NO ADDITIONAL COST TO OWNER. CONTACT ENGINEER FOR GUIDANCE AS NEEDED.
- C. WHEN DUCTWORK OR EQUIPMENT BLOCKS THE RETURN PATH CREATE ANOTHER OPENING FOR A SECONDARY RETURN PATH. WHEN FIELD CONDITIONS REQUIRE AN EQUIPMENT OR RETURN DUCT RELOCATION, MAKE SURE THE RETURN PATH FOLLOWS THE UNIT OR RETURN DUCT RELOCATION.
- D. MECHANICAL MEZZANINES AND MECHANICAL ROOMS WITH FREE RETURN TO AIR HANDLERS MUST HAVE SUFFICIENT OPENINGS FROM ANY ENCLOSED MEZZANINES OR MECHANICAL ROOMS TO THE RETURN PLENUM SPACE. MINIMUM OPENING SIZE IS 15 SQUARE FEET PER TON IN TO MEZZANINE OR MECHANICAL ROOM.
- E. AIR BALANCE MUST BE DONE WITH ALL DOORS CLOSED AND ACCESS INTO MECHANICAL ROOMS OR MEZZANINES CLOSED TO MIMIC FINAL WORST CASE CONDITIONS.
- F. ALL WALLS TO DECK ARE TO HAVE TRANSFER AIR OPENINGS TO ALLOW FOR OUTSIDE AIR TO BE RELIEVED OUT OF THE BUILDING THROUGH THE BAROMETRIC RELIEF DAMPER AND ALSO PROVIDE MAKEUP AIR TO ALL EXHAUST FAN.
- G. TRANSFER AIR OPENINGS ARE TO HAVE INTERNALLY LINED DUCTS WITH 90 DEGREE ELBOWS TURNED UP ON BOTH ENDS.
- H. WHEN TRANSFER AIR DUCTS ARE LOCATED IN WALLS SURROUNDING SOUND CRITICAL ROOMS AS LISTED IN ACOUSTICAL ENGINEERING DOCUMENT, PROVIDE 2" ACOUSTICAL LINER AND ANY OTHER REQUIREMENTS LISTED IN THE ACOUSTICAL ENGINEER'S DOCUMENT.
- I. MINIMUM SIZE OF TRANSFER DUCT (INSIDE CLEAR DIMENSION) TO BE 14"x12" UNLESS OTHERWISE NOTED.
- J. TRANSFER AIR OPENINGS TO BE SIZED BASED ON AMOUNT OF AIR REQUIRED TO PASS THROUGH WALL. TYPICAL WALLS - 0.05" W.G. PER 100'. SOUND WALLS - 450 FPM MAX.
- K. REFERENCE ARCHITECTURAL PLANS AND FIELD VERIFY WALLS TO DECK.

### SYSTEM COMMISSIONING

**THIS PROJECT HAS A TOTAL MECHANICAL EQUIPMENT CAPACITY OF 480,000 BTU/H OR MORE THEREFORE COMMISSIONING MUST BE PROVIDED PER THE LATEST STATE ADOPTED ENERGY CODE, 2015 IECC. CONSULT THE COMMISSIONING SCOPE WITH THE OWNER SELECTED COMMISSIONING AGENT - HENDRIX CONSULTING ENGINEERS.**

### MECHANICAL GENERAL NOTES

- A. **GENERAL:** THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS AS THEY EXIST. SUBMISSION OF BID INDICATES THE CONTRACTORS UNDERSTANDING OF EXISTING CONDITIONS AND HIS WILLINGNESS TO WORK WITH THESE CONDITIONS. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF COORDINATION WITH EXISTING CONDITIONS OR OTHER TRADES.
- B. **GENERAL:** CONTRACTORS TO REVIEW AND COMPARE ALL DRAWINGS SO ALL WORK IN THEIR RESPECTIVE TRADE IS INCLUDED IN BID. EACH CONTRACTOR SHALL INCLUDE ALL MATERIALS AND INSTALLATION REQUIRED FOR HIS PARTICULAR TRADE AFTER COMPLETE REVIEW OF ALL CONTRACT DRAWINGS AND SPECIFICATIONS.
- C. **GENERAL:** ALL WORK SHALL COMPLY WITH THE CURRENT APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY ASME, SMACNA, ARIHRA, NFPA, APPLICABLE BUILDING CODE, APPLICABLE MECHANICAL CODE, APPLICABLE PLUMBING CODE, NATIONAL ELECTRICAL CODE, ADA, ADA AND OSHA, AS THEY APPLY TO THIS PROJECT. EXCEPT IN CASES WHERE LOCAL STATUTES GOVERN, THE CONTRACTOR SHALL VERIFY WITH THE LATEST ADOPTED LOCAL CODES, ORDINANCES AND AMENDMENTS THAT APPLY TO THIS PROJECT WITH THE AUTHORITY HAVING JURISDICTION.
- D. **COORDINATION:** MECHANICAL CONTRACTOR TO COMPLETE A MECHANICAL/ELECTRICAL EQUIPMENT COORDINATION SHEET IN SPECIFICATION SECTION 20 00 00 AND SUBMIT COMPLETED FORM WITH EQUIPMENT SUBMITTAL AND PROVIDE A COMPLETED FORM TO THE ELECTRICAL CONTRACTOR.
- E. **OSHA:** REFERENCE ROOF PLAN NOTES.
- F. **OUTSIDE AIR:** OUTSIDE AIR TO THE BUILDING IS CALCULATED BASED ON THE USE OF BI-POLAR ION GENERATOR AIR PURIFIERS FOR REDUCING INDOOR CONTAMINATES TO ACCEPTABLE LEVELS. IN ACCORDANCE WITH SECTION 403.3 OF THE INTERNATIONAL MECHANICAL CODE. THE OUTDOOR AIR QUALITIES INDICATED IN THE SCHEDULES EXCEEDS THE MINIMUM REQUIRED OUTDOOR AIR PER SECTION 403.3 AND PROVIDES FOR BUILDING PRESSURIZATION AND MAKEUP FURNISHING EXHAUST.
- G. **TEST AND BALANCE:** PROVIDE COMPLETE TEST AND BALANCE FOR ENTIRE JOB PER SPECIFICATIONS. TEST AND BALANCE MUST BE BY 3RD PARTY COMPANY TO INSTALLING MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR IS TO WORK WITH AND FACILITATE T&B WORK AND MAKE ALL REPAIRS ETC AS NOTED BY T&B FIRM PROMPTLY SO THAT T&B CAN BE SUCCESSFULLY COMPLETED.
- H. **LABELS:** PROVIDE ENGRAVED LABELS FOR ALL EQUIPMENT. LABEL ALL THERMOSTATS/SENSORS TO CORRESPONDING EQUIPMENT NUMBER. PROVIDE ENGRAVED ACCESS PANEL MARKERS ON THE CEILING GRID TO INDICATE ACCESS LOCATIONS FOR EQUIPMENT ABOVE CEILING.
- I. **STRUCTURAL:** COORDINATE FRAMED OPENING THROUGH ROOF FOR EQUIPMENT. VERIFY SIZE AND METHOD WITH STRUCTURAL ENGINEER. PROVIDE ROOF SHOP DRAWINGS INDICATING SIZE AND LOCATION OF ROOF OPENINGS FOR COORDINATION FROM A LADDER PRIOR. COORDINATE PLACEMENT AND SUPPORT OF ALL ROOF MOUNTED EQUIPMENT CURBS AND SUPPORTS WITH STRUCTURAL PRIOR TO INSTALLATION. WHERE STRUCTURAL BRIDGING IS REMOVED, RE-BRIDGE ON EACH SIDE OF JOIST. VERIFY WITH STRUCTURAL ENGINEER PRIOR TO REMOVING ANY BRIDGING. COORDINATE WITH ALL STRUCTURAL BRACING FOR RETURN OPENINGS ON DUCT AND DIFFUSERS.
- J. **AHU:** RETURN AIR PLENUMS ON BACK OF AIR HANDLING UNITS TO BE FULL SIZE OF RETURN OPENINGS OR UNITS. PROVIDE MINIMUM 16" x 16" ACCESS DOOR IN RETURN PLENUM IN ACCESSIBLE LOCATION.
- K. **AHU NOTE:** AIR HANDLING UNITS MOUNTED ABOVE CEILING ARE TO BE INSTALLED TO ALLOW FOR MAXIMUM ACCESS ON ACCESS PANEL. SERVICE CODE CLEARANCES MUST BE MAINTAINED. EQUIPMENT MUST BE INSTALLED SO THAT IT IS ACCESSIBLE FROM A LADDER THAT IS NO TALLER THAN THE CEILING WITHOUT STANDING ON TOP STEP. UNITS LOCATED ON MECHANICAL MEZZANINES MUST BE INSTALLED TO ALLOW FOR CODE REQUIRED CLEARANCES AND MANUFACTURER'S REQUIRED SERVICE CLEARANCES.
- L. **RTU:** ROOFTOP MOUNTED EQUIPMENT TO BE PROVIDED WITH FACTORY FULL PERIMETER SLOPED CURBS TO MATCH ROOF FOR EACH UNIT. ALL OTHER ROOF MOUNTED EQUIPMENT REQUIRING A CURB LESS THAN 30" IN ANY DIMENSION TO BE PROVIDED WITH FULL PERIMETER CURB. ALL CURBS AND ROOF SUPPORTS TO ALLOW FOR ROOF SLOPE SO EQUIPMENT WILL SIT LEVEL. TOP OF CURB TO BE A MINIMUM OF 12" ABOVE FINISHED ROOF ON SHORT SIDE OR 8" ABOVE TOP OF CURB IF APPLICABLE.
- M. **FILTERS:** INSTALL CLEAN SET OF FILTERS THROUGHOUT AT COMPLETION OF PROJECT. ANY UNITS THAT ARE OPERATED DURING CONSTRUCTION SHALL HAVE FILTER MEDIA (FIBERBOND DUAL-PLY DUSTLOC MEDIA) PLACED OVER THE EXTERIOR OF RETURN AIR GRILLES. MEDIA SHALL BE CHANGED AS FREQUENTLY AS REQUIRED TO KEEP DUCTWORK CLEAN. WHEN RETURN AIR FILTERS ARE LOCATED AT UNIT, PROVIDE INSULATED FILTER RACK SUITABLE FOR 2" THICK, FACTORY STANDARD FILTER SIZES, THAT IS AIRTIGHT WITH HINGED ACCESS DOOR AND LATCH, UNLESS SUCH RACK IS INTEGRAL TO UNIT CONSTRUCTION.
- N. **UNDERGROUND:** BEFORE ANY CUTTING OR TRENCHING OPERATIONS BEGIN, VERIFY WITH OWNER'S REPRESENTATIVE, UTILITY COMPANIES AND OTHER INTERESTED PARTIES THAT ALL AVAILABLE INFORMATION HAS BEEN PROVIDED CONCERNING EXISTING UTILITY LOCATION. VERIFY LOCATIONS GIVEN. CONTACT ARCHITECT IMMEDIATELY UPON UNCOVERING UNKNOWN UTILITIES FOR FURTHER DIRECTION. INDICATE ALL UNCOVERED UTILITIES ON RECORD DRAWINGS.
- O. **REFRIGERANT PIPING:** THE REFRIGERATION SYSTEM SHALL BE INSTALLED COMPLETE AS A SYSTEM WITH ALL REFRIGERANT, OIL, VALVES, DEHYDRATORS, GAUGES AND CONTROLS AS REQUIRED FOR PROPER OPERATION OF THE SYSTEM. PIPING SHALL BE HARD DRAWN ACR REFRIGERANT PIPING WITH WROT FITTINGS IN ACCORDANCE WITH ARI STANDARDS. USE LONG RADIUS ELBOWS. INSULATE SUCTION LINES AND SEAL ALL CUT ENDS AND EDGES WITH ADHESIVE TO PROVIDE AN AIR TIGHT SEAL. USE 3/4" ARMAFLEX AP II INSULATION. REFRIGERANT PIPING IN INACCESSIBLE SPACES, SUCH AS WALL CAVITIES, OR UNDERGROUND SLEEVES IS TO BE SOFT DRAWN COPPER WITH NO FITTINGS IN THE INACCESSIBLE AREAS. ALL BENDS IN SOFT COPPER ARE TO BE MADE WITH REFRIGERATION TUBING BENDER. INSTALL COMBINATION SIGHT GLASS/MOISTURE INDICATOR NEAR LIQUID LINE CONNECTION TO OUTDOOR UNIT. SMALL REFRIGERANT PIPING (6" AND LESS) SERVING VRF SYSTEM MAY BE SOFT COPPER TO REDUCE THE NUMBER OF JOINTS. THIS PIPING MUST BE INSTALLED IN A NEAT WORKMAN LIKE MANNER AND SUPPORTED AT INTERVALS REQUIRED TO PREVENT SAGGING. THE USE OF HAT CHANNELS OR SIMILAR MATERIAL MAY BE NEEDED TO PROVIDE ADEQUATE AHEAD. THE CONTRACTOR IS TO PROVIDE A LABEL ON THE OUTSIDE OF INSULATION INDICATING THE LOCATION OF ALL JOINTS.
- P. **PENETRATION OF FIRE/SMOKE RATED ASSEMBLY - FIRE/SMOKE AND/OR FIRE DAMPERS:** REFERENCE FIRE AND FIRE/SMOKE DAMPER BLOCK NOTE. IF BLOCK NOTE IS MISSING REQUEST IT.
- Q. **DUCT SMOKE DETECTORS:** ALL MECHANICAL EQUIPMENT OR GROUPS OF EQUIPMENT SERVING A COMMON AREA AND DISCHARGING OVER 2000 CFM OR SERVING EGRESS PATHWAYS SHALL HAVE SMOKE DETECTORS LOCATED IN RETURN AND DISCHARGE AIR DUCTS, AS REQUIRED BY CODE AND LOCAL AHJ. THE MECHANICAL CONTRACTOR IS TO PROVIDE, INSTALL AND WIRE SMOKE DETECTORS COMPLETE WITH REMOTE TEST SWITCH INDICATOR UNLESS THE BUILDING HAS A FIRE ALARM SYSTEM. WHEN BUILDING HAS A FIRE ALARM SYSTEM THE ELECTRICAL/FIRE ALARM CONTRACTOR IS TO PROVIDE AND WIRE THE DUCT DETECTORS BACK INTO THE FIRE ALARM CONTROL PANEL AND PROVIDE A RELAY AT THE UNIT FOR LOCAL SHUTDOWN. MECHANICAL CONTRACTOR (CONTROLS CONTRACTOR) IS TO WIRE HIS CONTROL CIRCUIT THROUGH THE RELAY CONTACT. REFERENCE MECHANICAL AND ELECTRICAL GENERAL NOTES, SCHEDULES PLANS AND SPECIFICATIONS FOR MORE INFORMATION.
- R. **PCP:** COORDINATE LOCATION AND MOUNTING TYPE OF ALL CEILING AIR DEVICES IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS. THE COLOR OF ALL AIR DEVICES IS TO BE DETERMINED BY THE ARCHITECT. THE CONTRACTOR IS RESPONSIBLE TO CHECK WITH THE ARCHITECT PRIOR TO ORDERING AIR DEVICES. PAINT AIR DEVICES AS DIRECTED BY THE ARCHITECT.
- S. **TOOLS:** PROVIDE ALL APPROPRIATE TOOLS, WRENCHES, KEYS, ETC. AS REQUIRED FOR ACCESS AND OPERATION OF VALVES, COVERS, ETC.
- T. **SOUND WALLS:** SEAL AROUND ALL DUCTWORK AND PIPING AT PENETRATIONS THROUGH SOUND WALLS WITH ACOUSTICAL SEALANT.
- U. **LIGHT COORDINATION:** COORDINATE LOCATION OF DUCTWORK WITH LOCATION AND DEPTH OF ALL LIGHT FIXTURES PRIOR TO INSTALLATION.
- V. **ELECTRICAL ROOMS:** ABSOLUTELY NO PIPING OR DUCTWORK CAN BE ROUTED ABOVE ELECTRICAL PANELS, GEAR OR TRANSFORMERS. THE ONLY HVAC, PLUMBING, SPRINKLER PIPING OR DUCTWORK THAT CAN ENTER AN ELECTRIC ROOM ARE THOSE SPECIFICALLY SERVING THAT ROOM. THESE SERVICES CAN ONLY ENTER INTO ELECTRIC ROOM ABOVE ENTRY DOOR.
- W. **SECTION VIEW NOTE:** SECTION VIEWS ARE SHOWN FOR REFERENCE ONLY. FINAL INSTALLED CONDITION MAY BE DIFFERENT THAN WHAT IS SHOWN IN SECTION VIEWS. REFERENCE ARCHITECTURAL DRAWINGS FOR COORDINATION. NOT ALL ARCHITECTURAL ELEMENTS ARE SHOWN IN MECHANICAL SECTIONS. SOME MECHANICAL ELEMENTS MAY BE HIDDEN IN SECTION VIEWS FOR CLARITY. COORDINATE ROUTING OF MECHANICAL ITEMS WITH ALL OTHER SYSTEMS.

### MECHANICAL LEGEND

SYMBOL	ABB.	DESCRIPTION
	FD	FIRE DAMPER (RE: ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS)
	FSD	COMBINATION FIRE/SMOKE DAMPER
	DB	DUCT BARRIER WITH SECURITY 1/2" BARS (6 X 6) EQUAL TO PRICE MODEL MSBG
	TSTAT	THERMOSTAT/CONTROL DEVICE
		REMOTE TEMPERATURE SENSOR
	H	HUMIDISTAT
		CARBON DIOXIDE SENSOR
	F	FIRESTAT
	S	SMOKE DETECTOR
	AH	ABSOLUTE HUMIDITY SENSOR
	MOD	MOTOR OPERATED DAMPER
	VS	VENTILATION SWITCH
		LONG RADIUS 90° ELBOW
		BRANCH TAKE-OFF WITH DAMPER
		RADIUS DUCT SPLIT/WLOCKING SPLITTER DAMPER
		CEILING SUPPLY AIR DEVICE
		CEILING RETURN OR EXHAUST DEVICE
	D	CONDENSATE DRAIN
		BALL VALVE - 2" AND SMALLER BUTTERFLY VALVE - LARGER THAN 2"
	O.B.D.	OPPOSED BLADE DAMPER
		SMOKE SUPPLY GRILLE
		POINT OF CONNECTION
		MANUAL DAMPER (QSD WHEN ON MAU DUCTWORK)
	AD	DUCT ACCESS DOOR

### M/P ABBREVIATIONS

AD	ACCESS DOOR	MAINT	MAINTENANCE
ABV	ABOVE	MAU	MAKEUP AIR UNIT
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
ARCH	ARCHITECT	MC	MECHANICAL CONTRACTOR
AUTO	AUTOMATIC	MBH	1000 BTU PER HOUR
AUX	AUXILIARY	MECH	MECHANICAL
AHU	AIR HANDLING UNIT	MH	MANHOLE
		MIN	MINIMUM
BD	BALANCE DAMPER	MIS	MISCELLANEOUS
BFF	BELOW FINISHED FLOOR	MTD	MOUNTED
BLDG	BUILDING	MOD	MOTOR OPERATED DAMPER
BOD	BOTTOM OF DUCT	NIC	NOT IN CONTRACT
BF	BOTTOM OF PIPE	N.O.	NORMALLY OPEN
	BOOSTER FAN	N.C.	NORMALLY CLOSED
		NO.	NUMBER
CLG	CEILING	NTS	NOT TO SCALE
CLR	CLEAR/CLEARANCE		
COL	CLEANOUT	O/A	OUTDOOR AIR
COL	COLUMN	OB	OPPOSED BLADE DAMPER
CONC	CONCRETE	OC	ON CENTER(S)
CONTR	CONTRACTOR	OPNG	OPENING
CW	COLD WATER	ORL	OVERFLOW RAIN LEADER
CONN	CONNECTION	OAH	OUTSIDE AIR HOOD
CU	COPPER	PC	PLUMBING CONTRACTOR
CHS	CHILLED WATER SUPPLY	PH	PHASE
CHR	CHILLED WATER RETURN	PLBG	PLUMBING
DIA	DIAMETER	R/A	RETURN AIR
DN	DOWN	RE:	REFERENCE/REFER TO
DWG	DRAWING	REFRIG	REFRIGERANT
DH	DUCT HEATER	REF	REFRIGERATOR
E/A	EXHAUST AIR	REQD	REQUIRED
EC	ELECTRICAL CONTRACTOR	RHP	RADIANT HEAT PANEL
EF	EXHAUST FAN	RM	ROOM
ELEC	ELECTRICAL/ELECTRICAL	RSC	RAIN LEADER
EO	EQUAL	RTU	ROOFTOP UNIT
EQUIP	EQUIPMENT	S/A	SUPPLY AIR
EX	EXISTING	SCH	SCHEDULE
EXH	EXHAUST	SP	STATIC PRESSURE
E.S.P.	EXTERNAL STATIC PRESSURE	SPEC	SPECIFICATION
ERV	ENERGY RECOVERY VENTILATOR	SD	STORM DRAIN
		SF	SUPPLY FAN
FCO	FLOOR CLEAN OUT	TSP	TOTAL STATIC PRESSURE
FF	FAN COIL UNIT	TYP	TYPICAL
FLEX	FLEXIBLE	UN	UNLESS OTHERWISE NOTED
FLR	FLOOR/FLOORING	UG	UNDERGROUND
GA	GAUGE	UH	UNIT HEATER
GC	GENERAL CONTRACTOR	V	VENT (PLUMBING)
GEN	GENERAL	V	VOLTAGE (ELECTRICAL)
GYP	GYPSONUM BOARD	VTR	VENT THROUGH ROOF
HP	HEAT PUMP	W/	WITH
Hp	HORSEPOWER	W/O	WITHOUT
HT	HEIGHT	WP	WATERPROOF
HW	HOT WATER	WT	WEIGHT
HWC	HOT WATER CIRC	WTR	WATER
HWR	HEATING WATER RETURN	WW	WASTE WATER
HWS			

## BIPOLAR IONIZATION AIR PURIFICATION SCHEDULE

### BIPOLAR AIR PURIFICATION DEVICES:

MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL BIPOLAR IONIZATION DEVICES IN ALL AIR CONDITIONING EQUIPMENT. INCLUDING ALL RTU'S, AHU'S, CASSETTES, MINISPLITS, AND MAU'S. EXHAUST FANS AND KITCHEN HOOD EQUIPMENT ARE EXCLUDED. MINI SPLITS SERVING NORMALLY UNOCCUPIED ROOMS ARE EXCLUDED. ALL UNITS TO BE AUTO CLEANING TYPE. BIPOLAR DEVICE TO BE SIZED BASED ON THE CHART BELOW. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR. REPLACE UNITS BUILT IN CONTROL TRANSFORMER WITH LARGER TRANSFORMER FOR 24V IONIZATION UNITS IF REQUIRED. PROVIDE MODEL NUMBERS AS FOLLOWS UNLESS NOTED OTHERWISE. GLOBAL PLASMA SOLUTIONS ARE BASIS OF DESIGN. EQUAL SELF CLEANING NEEDLE POINT UNITS BY PHENOMENAL AIRE ARE ACCEPTABLE, MUST BE SIZED BY CHART BELOW. ALL OTHERS MUST BE APPROVED PRIOR TO BID AND WILL NOT BE ACCEPTED AS SUBSTITUTION DURING SUBMITTAL PHASE.

CFM	PART NUMBER	ION OUTPUT	VOLTAGE	WATTS	MOUNTING LOCATION
	FC2	25,000,000	208-240VAC	2 W	IN UNIT CABINET
1 - 3,000	FC48	400,000,000	24VAC TO 240VAC	10 W	IN UNIT CABINET
3,001 - 6,000	TWO(2) X FC48	800,000,000	24VAC TO 240VAC	20 W	IN UNIT CABINET
6,001 - 10,000	IMOD 18"	2,520,000,000	24/120/208-240VAC	15 W	IN UNIT CABINET
10,001 - 14,000	IMOD 30"	4,200,000,000	24/120/208-240VAC	15 W	IN UNIT CABINET
14,001 - 20,000	IMOD 48"	6,720,000,000	24/120/208-240VAC	15 W	IN UNIT CABINET

### IN ROOM BIPOLAR AIR PURIFICATION DEVICES:

MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL GFS MODEL IDF-2, BIPOLAR IONIZATION/BLOWER DEVICE(S) WITH REMOTE CONTROLLER AND FITTING 24" x 24" LAY IN CEILINGS IN ROOMS WHERE SHOWN ON PLANS. COORDINATE FINAL LOCATION WITH LIGHTS, GRILLES, SPEAKERS, ETC. UNITS TO HAVE BUILT IN AUTO CLEANING BIPOLAR DEVICE. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS WITH POWER DISCONNECTING SWITCH AT EACH DEVICE. COORDINATE 120 VOLT POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR. GLOBAL PLASMA SOLUTIONS ARE BASIS OF DESIGN. PRE APPROVED EQUAL FAN UNIT(S) WITH SELF CLEANING NEEDLE POINT UNITS ARE ACCEPTABLE ONLY IF APPROVED PRIOR TO BID AND WILL NOT BE ACCEPTED AS A SUBSTITUTION DURING SUBMITTAL PHASE.

## EXHAUST FAN (EF)

1 OF 1

### STANDARD NOTES - APPLIES TO ALL FANS

- BALANCE ALL FANS TO ACTUAL CFM SHOWN ON FLOOR PLANS.
- BEE SCREEN.
- FANS INSTALLED ON METAL STANDING SEAM ROOFS: ROOF CURB IS TO BE FURNISHED, INSTALLED, FLASHED AND COUNTER FLASHED BY ROOFING CONTRACTOR. MECHANICAL CONTRACTOR IS TO COORDINATE SIZE AND LOCATION. CURB IS TO EXTEND A MINIMUM OF 12" ABOVE FINISHED ROOF ON SHORT SIDE.
- FANS INSTALLED ON BUILT UP ROOF: ROOF CURB IS TO BE FLASHED AND COUNTER FLASHED BY ROOFING CONTRACTOR. MECHANICAL CONTRACTOR IS TO FURNISH AND INSTALL ROOF CURB AND COORDINATE LOCATION. CURB IS TO EXTEND A MINIMUM OF 12" ABOVE.
- FACTORY DISCONNECT.
- PROVIDE ALL EXHAUST FANS AND MAKE-UP AIR FANS WITH A PARALLEL BLADE DAMPER WITH HEAVY DUTY MOTORIZED ACTUATOR (MATCH FAN VOLTAGE) UNLESS SPECIFICALLY NOTED OTHERWISE. ELECTRICAL CONTRACTOR TO TIE DAMPER ACTUATOR IN TO FAN POWER. PROVIDE TIME DELAY RELAY OR END SWITCH ONLY IF RECOMMENDED BY MANUFACTURER ON LARGER FANS. PROVIDE TRANSFORMER IF REQUIRED. MOTORIZED DAMPER NOT REQUIRED IF THE FAN HAS AN INTEGRAL BACKDRAFT DAMPER.
- UNIT WEIGHT LESS THAN 100 LBS. UNLESS NOTED OTHERWISE.
- COORDINATE ALL FINAL FAN LOCATIONS AND FRAMING WITH STRUCTURAL.
- ALL ALTERNATE MANUFACTURERS FANS MUST OPERATE WITH CFM, RPM AND HP RANGE AS FANS LISTED IN SCHEDULE TO ALLOW FLEXIBILITY. FANS MAY NOT BE DOWN SIZED.
- FAN SPEED CONTROL MOUNTED UNDER DOME ON ROOF FANS OR NEXT TO CABINET FANS FOR ALL DIRECT DRIVE FANS).
- DUCT DROPS ARE TO BE FULL SIZE OF DAMPER OR SIZED AT .05" SP PER 100 FT WHICHEVER IS GREATER OR AS SPECIFICALLY NOTED.
- POWDER COATED METAL IS NOT ALLOWED TO BE USED IN LIEU OF GALVANIZED UNLESS SPECIFICALLY SCHEDULED.
- EXHAUST FANS / OUTLETS TO BE LOCATED A MINIMUM OF 10' AWAY FROM OUTSIDE AIR INTAKES OR AS REQUIRED BY LOCAL CODES.

### ACCESSORIES AND NOTES (ONLY PROVIDE ACCESSORIES LISTED IN SCHEDULE BELOW)

- UPBLAST GREASE FAN ACCESSORIES: FAN TO BE UL AND cUL LISTED FOR GREASE REMOVAL. HEAT BAFFLE, BIRD GUARD, HINGE KIT, DRAIN CONNECTION, GREASE TRAP AND VENTED CURB EXTENSION (MUST MEET THE NFPA 96 REQUIREMENT FOR A 40' DISCHARGE HEIGHT). PROVIDE WITH SEPARATE CURB FROM ANY SUPPLY FAN.
- KITCHEN SUPPLY FAN GREENNECK ARRANGEMENT 100" ACCESSORIES: EXHAUST FAN AND SUPPLY FAN TO BE MOUNTED ON SEPARATE CURBS AND PROVIDE MOPPED IN EQUIPMENT SUPPORT RAIL WITH GALVANIZED UNISTRUT SUPPORT FOR WEATHER HOOD, MOTORIZED INTAKE DAMPER, SPACER SECTION (TO MAINTAIN 10 FEET SEPARATION FROM EXHAUST FAN), FILTER SECTION THAT ACCOMMODATES 2" FILTERS, WEATHER HOOD, SUPPLY FAN INTERLOCKED TO RUN WITH KITCHEN EXHAUST FAN. KITCHEN EXHAUST FAN IS TO RUN AND SUPPLY FAN IS TO GO OFF IN THE EVENT THAT A FIRE IS DETECTED. FURNISH WITH REMOTE OR FAN CASING MOUNT PREWIRED KITCHEN FAN CONTROL CENTER WITH STARTERS, DISCONNECTS, CONTROL TRANSFORMERS, AND SINGLE POINT ELECTRICAL CONNECTION. ELECTRICAL CONTRACTOR TO MAKE ALL CONTROL AND LINE VOLTAGE TERMINATIONS AND FEED THROUGH CONNECTIONS REQUIRED FOR A COMPLETE...
- DIRECT FIRED GAS HEAT.
- ELECTRIC HEAT.
- PREFORMATED BAFFLE INSTALLED AT INLET.
- GRAVITY BACK DRAFT DAMPER.
- RADIATION DAMPER (CEILING MOUNTED FANS).
- COMBINATION NEOPRENE / SPRING VIBRATION ISOLATION.
- INLET GUARD.
- BELT GUARD.
- MAGNETIC MOTOR STARTER.
- SWITCHED WITH LIGHTS BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ALL RELAYS AND APPURTENANCES.
- SWITCHED BY SPRING WOUND TIMER (1 HR MAX) PROVIDED BY ELECTRICAL CONTRACTOR. LOCATE NEXT TO ROOM LIGHT SWITCH UNLESS OTHERWISE NOTED.
- SWITCHED BY WALL SWITCH WITH PILOT LIGHT BY ELECTRICAL CONTRACTOR. LOCATE NEXT TO ROOM LIGHT SWITCH UNLESS OTHERWISE...
- SWITCHED BY HOOD MOUNTED SWITCH WITH PILOT LIGHT BY ELECTRICAL CONTRACTOR.
- SWITCHED BY THERMOSTAT. THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR. INSTALLED BY ELECTRICAL CONTRACTOR.
- CONTROLLED BY ENERGY MANAGEMENT SYSTEM.
- 120V/1PH MOTORIZED DAMPER FOR INLINE FAN TIED IN TO FAN POWER.
- EXPLOSION PROOF FAN. WIRE TO RUN CONTINUOUSLY.
- PERFORATED BAFFLE INSTALLED AT INLET.
- INTERLOCKED WITH DISHWASHER.
- DRYER BOOSTER FAN. PROVIDE ALL CONTROLS AND INTERLOCKING WIRING REQUIRED FOR A COMPLETE OPERABLE SYSTEM.
- SIDEWALL PROPELLER FAN PROVIDE WITH HOUSING, MOTORIZED BACKDRAFT DAMPER, INTEGRAL DISCONNECT, MOTOR SIDE GUARD AND TRANSITIONS AS REQUIRED TO CONNECT TO WALL LOUVER.
- FAN TO BE CONTROLLED BY CARBON MONOXIDE (CO) AND DIESEL (NO2) SENSORS. PROVIDE MULTI GAS DETECTION SYSTEM AND ALL SENSORS REQUIRED. IN ADDITION PROVIDE A SPRING WOUND TIMER TO MANUALLY OPERATE THE FAN.

MARK NO.	FANTECH MODEL NO.	CFM	SP	RPM	DRIVE	H.P.	VOLT/PH	WATTS/AMPS	ACCESSORIES & NOTES
EF-1	RVF-4	75	0.375	3060	DIRECT	0.00	0/0	1.00 A	12
EF-2	RVF-4XL							1.00 A	12
EF-3	RVF-4	75	0.375	3060	DIRECT	0.00	0/0	1.00 A	12
EF-4	RVF-4XL	150	0.375	2700	DIRECT	0.00	0/0	1.00 A	12
EF-5	RVF-4XL	150	0.375	2700	DIRECT	0.00	0/0	1.00 A	12
EF-7	RVF-4	75	0.375	3060	DIRECT	0.00	0/0	1.00 A	12
EF-8	RVF-4	100	0.375	3060	DIRECT	0.00	0/0	1.00 A	12

## AIR DEVICE SCHEDULE

- COORDINATE EXACT LOCATION OF DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- ALL SUPPLY DIFFUSERS SHALL BE 4-WAY THROW UNLESS NOTED OTHERWISE.
- ALL FLEX SHALL BE SIZED AS SCHEDULED UNLESS NOTED OTHERWISE.
- ALL DIFFUSERS SHALL BE WHITE UNLESS NOTED OTHERWISE. COORDINATE EXACT COLOR/FINISH WITH...
- VERIFY FRAME TYPE WITH ACTUAL CEILING TYPE PRIOR TO PURCHASE OF AIR DEVICES.
- ALL VOLUME DAMPERS SHALL BE OPPOSED BLADE TYPE.
- RUN-OUTS AND DROPS FROM RIA MAIN TRUNKS SHALL BE AS FOLLOWS: UP TO 250 CFM USE 10" DIAMETER OR 10" x 8"; 251 CFM TO 450 CFM USE 12" DIAMETER OR 12" x 10"; 451 CFM TO 700 CFM USE 14" DIAMETER OR 12" x 12"; 701 CFM TO 1000 CFM USE 16" DIAMETER OR 14" x 16"; 1001 CFM TO 1400 CFM USE 18" DIAMETER OR 16" x 18". UNLESS SHOWN OTHERWISE.
- INSULATE BACKS OF ALL AIR DEVICES.
- PROVIDE PRICE PLASTER FRAME FOR LAY IN AIR DEVICES LOCATED IN GYP OR PLASTER CEILINGS.
- AIR DEVICES LOCATED IN DAMP AREAS (SHOWERS/LOCKER ROOMS/TRAINING ROOMS) ARE TO BE OF THE SAME SIZE AND TYPE AS SHOWN ON THE AIR DEVICE SCHEDULE BUT MUST BE OF ALL ALUMINUM CONSTRUCTION. ALL DEVICES SCHEDULED TO BE ALUMINUM MUST BE ALUMINUM NO MATTER WHERE THEY ARE LOCATED.
- TRANSITION TO AIR DEVICE NECK SIZE AS REQUIRED.
- ALL LAY IN AIR DEVICES ARE TO BE CONNECTED WITH FLEX DUCT. PROVIDE WITH MINIMUM 3" HIGHROUND NECK OR SQUARE TO ROUND ADAPTER WITH 3" HIGH NECK FOR PROPER CONNECTION OF FLEX DUCT (SIZED PER SCHEDULE) TO AIR DEVICE.

\*\* PROVIDE INACTIVE SECTIONS OF LINEAR SLOTS WITH BLANK-OFF PLATES.

\*\* PROVIDE ALL ACCESSORIES REQUIRED FOR COMPLETE CONTINUOUS APPEARANCE.

MARK	NECK SIZE	FRAME SIZE	FRAME TYPE	VOLUME DAMPER	System Classification	MODEL	FLEX SIZE	MAXIMUM CFM
					Return Air			
A2	12" x 12"	24 x 24	LAY-IN	---	Supply Air	PRICE MODEL SMD	8"	220
A3	12" x 12"	24 x 24	LAY-IN	---	Supply Air	PRICE MODEL SMD	10"	350
A4	15" x 15"	24 x 24	LAY-IN	---	Supply Air	PRICE MODEL SMD	12"	600
B1	22" x 10"	24 x 12	LAY-IN	---	Return Air	PRICE MODEL S30TB	12"	700
B2	22" x 22"	24 x 24	LAY-IN	---	Return Air	PRICE MODEL S30TB	18"	1400
C1	9" x 9"	15 x 15	SURFACE	---	Supply Air	PRICE MODEL SMD	6"	100
C2	12" x 12"	18 x 18	SURFACE	---	Supply Air	PRICE MODEL SMD	8"	220
D1	8" x 8"	10 x 10	SURFACE	•	Exhaust Air	PRICE MODEL 630	9"	250
D2	12" x 12"	14 x 14	SURFACE	•	Exhaust Air	PRICE MODEL 630	12"	450
E2	12" x 6"	14 x 8	SURFACE	•	Supply Air	PRICE MODEL 620DAS	10"	280
E4	24" x 6"	26 x 8	SURFACE	•	Supply Air	PRICE MODEL 620DAS	12"	600
E6	16" x 8"	18 x 10	SURFACE	•	Supply Air	PRICE MODEL 620DAS	12"	525
E7	48" x 6"	34 x 10	SURFACE	•	Supply Air	PRICE MODEL 600DAS	14"	900
K2	8" x 8"	5.125 x 50.5	SURFACE	---	Supply Air	PRICE MODEL SDB, 2-3/4" SLOTS, 48" LONG WITH SDA INSULATED PLENUM**	8"	200
K4	8" x 8"	8.5 x 50.5	SURFACE	•	Supply Air	PRICE MODEL SDB, 2-3/4" SLOTS, 48" LONG WITH SDA INSULATED PLENUM**	8"	0
M2	22" x 22"	24 x 24	LAY-IN	•	Exhaust Air	PRICE MODEL 630TB	18"	1400



THE SEAL APPROVED ON THIS DOCUMENT WAS ISSUED BY THE BOARD OF ENGINEERING EXAMINERS OF THE STATE OF TEXAS.

REFERENCE GENERAL NOTES ON SHEETS M1.1, P1.1, AND E1.1 FOR ADDITIONAL INFORMATION.

MEMPHENERY CONSULTANTS



COMMISSIONING & FIELD INVESTIGATIONS

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HCE job no.: 24-037

# ROOF TOP UNIT SCHEDULE NOTES AND ACCESSORIES

THESE NOTES APPLY TO ALL RTU'S

ONLY "UNIT TYPES" LISTED IN THE PROJECT SCHEDULE WILL BE USED ON THIS PROJECT.

UNIT TYPE BREAKDOWN:  
**G = GAS HEAT RTU**      **E = ELECTRIC HEAT RTU**      **P = HEAT PUMP RTU**

STANDARD FEATURES TO BE PROVIDED WITH ALL UNITS:

**DESIGN CONDITIONS:**

All gross capacities listed are at standard ARI conditions (80/67/95) with standard airflow.

**UNIT CONSTRUCTION (STANDARD FEATURES):**

- A. **Base pan** - Fully insulated under all sections of the unit.
- B. All units to operate in cooling down to 0 degrees Fahrenheit.
- C. **Service access doors** to be hinged with 1/4 turn cam lock handles.
- D. **Condensate drain pan** - Stainless Steel or non-toxic sloped, galvanized pans are not acceptable.
- E. **Supply Fan** - High efficiency direct drive blowers with ECM or VFD when available. Belt drive models to have VFD for soft start.
- F. **Variable Frequency Drives (VFD's)** - provide with full bypass for use in case of VFD failure.
- G. **Air flow** - Units with multiple stages of cooling must have multiple speed supply air fans so that the leaving air temperature in all cooling stages is approximately the same (min 50 degrees F).
- H. **Electric Heaters** - provide kw indicated in schedule.
- I. **Propane gas fired units** - provide factory or field installed LP conversion kits when schedule or plumbing plans indicate Propane Gas is to be provided to the site. Natural gas parts to be placed inside unit control cabinet. Contractor to verify gas type with all documents.
- J. **Roof curb** - Full perimeter roof curb that extends a minimum of 14" above finished roof, curb height to be coordinated with roof insulation and cricket thickness to determine required curb height. Top of curb must be level, coordinate roof slopes with Structural Steel shop drawing. All curbs to have wood nailer. Reference details.
- K. **Pad mounted units** - Heavy gauge (min 16 Ga Galvanized) full perimeter curb for pad mounting, minimum 12" tall set on neoprene isolation pads. Ground mounted unit curbs must be installed on a 4" tall concrete house keeping pad.
- L. **Tie Down restraints** from RTU to curb as required by code.
- M. See specifications for standard accessories, features and controls required. Unit specified sets standards of construction and features.

**UNIT CONSTRUCTION (OPTIONS TO ALWAYS BE INCLUDED):**

- A. **Hall guards** to be painted minimum 18 gauge expanded metal. These are required even with sloped condenser coils.
- B. **Condensate float switch** - factory installed and wired (code mandated).
- C. **Stainless Steel** heat exchangers.
- D. **Locking refrigerant access port caps** on all ports where required by code. Turn keys over to owner.
- E. **HOT-GAS REHEAT**: non-modulating hot gas reheat coil equal to Lennox "Humidrol" controlled by wall mounted Dehumidistat (or DDC sensor) to enable dehumidification mode if space humidity rises above 65%(adj) relative humidity (rh) and space is not calling for sensible heating or cooling. Dehumidistat to be located 18" above thermostat unless shown or noted otherwise. Dehumidistat must be locked out when space temperature falls below 70 degrees F.

**SPARE PARTS:**

- A. **Belts**: 2 spare sets of belts for each belt drive RTU.
- B. **Filters**: 3 sets - 1 set installed plus 2 spare sets of 2" thick pleated filters equal to Camfil Farr 30/50. Install clean set prior to air balance and turn final set over to owner.

**ACCESSORIES AND NOTES: (ONLY PROVIDE ACCESSORIES LISTED IN ACCESSORIES AND NOTE COLUMN IN RTU PROJECT SCHEDULE)**

- 1. **MULTIPLE THERMOSTATS**: units controlled by multiple thermostats, each having equal authority.
- 2. **CURB ADAPTER**: internally lined curb adapter with internal ductwork to adapt new RTU to existing RTU Curb. Field verify existing conditions. Reference sheet notes.
- 3. **Vibration isolation rails**.
- 4. **Cooling only unit**. No heat.
- 5. **PLENUM CURB**: fully insulated (top, bottom and sides insulated with Armaflex sheet with minimum 18 value) solid bottom plenum curb with insulated divider plate between supply and return sides. Minimum height is 18". Bottom or side discharge as shown on plans.
- 6. **Energy Code Mandated Economizer** (minimum 3 position) with barometric relief. Program per specifications, dry bulb control, economizer to be enabled to operate when ambient temperature is below 55 degrees.
- 7. **Powered exhaust** (added to economizer).
- 8. Unit serving space that has overhead door. Provide interlock that will shut down unit if the overhead door is open.

**OUTSIDE AIR:**

- A. **Raw Outside Air - if scheduled in Project Schedule**: provide motorized outside air (O/A) damper with intake hood. Outside Air Damper to only open when Heating or Cooling is operating.
  1. **Raw O/A - 2 Position Damper Control** - (1) Closed / (2) Open to scheduled OA cfm, install a CO2 SENSOR mounted 18" from unit thermostat/sensor to monitor space conditions. **Two Position Outside Air Damper** opens to scheduled O/A volume only when space is occupied, and CO2 level is above 800 PPM and Heating and Cooling is operating. Closed all other times.
  2. **Do not provide an economizer for raw O/A intake.**
- B. **No Raw Outside Air** scheduled or if unit shows only neutral outside air, do not provide an outside air hood and damper.
- C. **Neutral Outside Air**: To be provided by a dedicated outside air unit ducted directly to the space or connected to the return duct system of an RTU. Outside air from dedicated outside air units may or may not be listed in the Rooftop Unit Schedule. Contractor to verify final quantities with plan notes and Outside Air Unit Schedules.

**ELECTRICAL:**

- A. **Voltage and Phase** - provide voltage and phase listed in schedule. It is the contractors responsibility to verify electrical service provided with electrical plans and electrical contractor. For remodel and change-out projects the contractor is to field verify what type of electrical service is existing to be reused prior to releasing equipment order. Any discrepancies to be reported to Engineer.
- B. **Phase loss/reversal protection**, (3 phase only)
- C. **Mechanical/electrical coordination sheet** to be filled out by mechanical contractor and submitted to electrical contractor and engineer (reference specifications)
- D. **Fused disconnects** - to be provided by Electrical Contractor.
- E. **Service receptacles** - to be provided by the Electrical Contractor as required by code.

**CONTROLS, START-UP, TEST & BALANCE, SUBMITTALS - REFERENCE BLOCK NOTES AND SPECIFICATIONS.**

- A. **Air purification**: mechanical contractor to provide and install bi-polar ion generators for all units listed in schedule. Reference bi-polar ion generators schedule for types and quantities.
- B. **DUCT SMOKE DETECTOR** in supply and/or return air duct (as determined by authority having jurisdiction) of each unit provided and wired by fire alarm contractor and installed by mechanical contractor. Fire alarm contractor shall provide a shutdown relay located within unit control compartment and make connections from detector to relay. Controls contractor shall provide wire and connectors from control relay to unit controls. If a fire alarm system is not provided the mechanical contractor is to provide and install duct detector(s), shut down relay, remote test switch and audible/visual indicator.
- C. When DDC controls are provided, all units are to be controlled using a Unit Controller (BACNET) integration not acceptable.

## RTU - GAS HEAT, ELECTRIC COOL TYPE SCHEDULE

SEE ROOFTOP UNIT SCHEDULE NOTES AND ACCESSORIES

RTU - GAS TYPE		DX COOLING										SUPPLY FAN				GAS HEATING				ELECTRICAL				LENOX MODEL	WEIGHT	
LENOX SERIES	UNIT TYPE	NOMINAL TONS	NO OF CLO STAGES	NO OF COMPRESSORS	TOTAL MBH	SENSIBLE MBH	SEER	IEER	EER	CFM STAGE 1	CFM STAGE 2	CFM STAGE 3	CFM STAGE 4	CFM MOTOR HP	EXT SP IN WG	DRIVE	INPUT MBH	OUTPUT MBH	MIN STAGES	HEATING CFM	VOLTS	PH	MCA	MOCF	LENOX MODEL	WEIGHT
ENLIGHT	G5-2403	5	2	1	57.7	45.0	17.1	12.8	1350	1950					0.5	Multi-Speed ECM Direct Drive	65	52	2	1950	240	3	28	40	LGT0604HE	1100
		15	3		172.1	132.5				3400	4500	6000			0.75	Multi-Stage Air Volume Belt	260	208	2	6000	240	3	67	70	LGT1804HM	3000

## RTU - ELECTRIC HEAT, ELECTRIC COOL TYPE SCHEDULE

SEE ROOFTOP UNIT SCHEDULE NOTES AND ACCESSORIES

RTU - ELECTRIC TYPE		DX COOLING										SUPPLY FAN				ELECTRIC HEATING				ELECTRICAL				LENOX MODEL	WEIGHT	
LENOX SERIES	UNIT TYPE	NOMINAL TONS	NO OF CLO STAGES	NO OF COMPRESSORS	TOTAL MBH	SENSIBLE MBH	SEER	IEER	EER	CFM STAGE 1	CFM STAGE 2	CFM STAGE 3	CFM STAGE 4	MOTOR HP	EXT SP IN WG	DRIVE	NOMINAL KW	ACTUAL KW	MIN STAGES	HEATING CFM	VOLTS	PH	MCA	MOCF	MDL	WEIGHT
ENLIGHT	E5-2403	5	2	1	57.7	45.0	17.1	12.8	1350	1950				1	0.5	Multi-Speed ECM Direct Drive	15	15	1	1950	240	3	49	50	LCT0604HE	1100

## RTU - GAS HEAT, ELECTRICAL COOL PROJECT SCHEDULE

RTU - GAS PROJECT		O/A CFM		MAU SERVING	ACCESSORIES AND NOTES
MARK	UNIT TYPE	RAW	NEUTRAL		
RTU-1	G15-2403	600			
RTU-2	G15-2403	600			
RTU-3	G5-2403	200			
RTU-6	G5-2403	200			

## RTU - ELECTRIC HEAT, ELECTRIC COOL PROJECT SCHEDULE

RTU - ELECTRIC SCHEDULE		O/A CFM		MAU SERVING	ACCESSORIES AND NOTES
MARK	UNIT TYPE	RAW	NEUTRAL		
RTU-4	E5-2403	200			
RTU-5	E5-2403	200			

**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
**DIocese of Victoria**  
 HOUSTON, TX

DATE ISSUED:  
07-02-2025

PROJECT NUMBER:  
1024-0623



*M. Hendrix*  
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REFERENCE GENERAL NOTES ON SHEETS M1.1, P1.1, AND E1.1 FOR ADDITIONAL INFORMATION

MEPENERGY CONSULTANTS



COMMISSIONING & FIELD INVESTIGATIONS

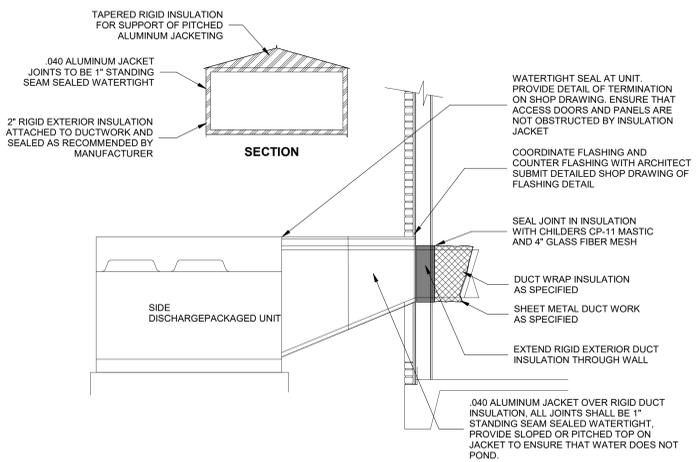
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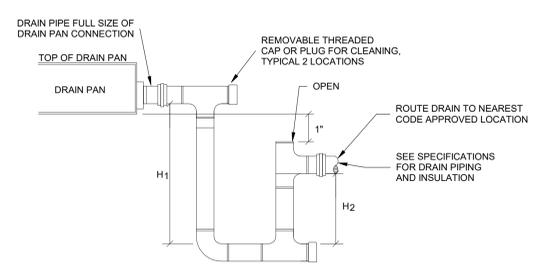
PLAN NORTH TRUE NORTH  
 SHEET NAME  
**SCHEDULES - MECHANICAL**

SHEET NUMBER

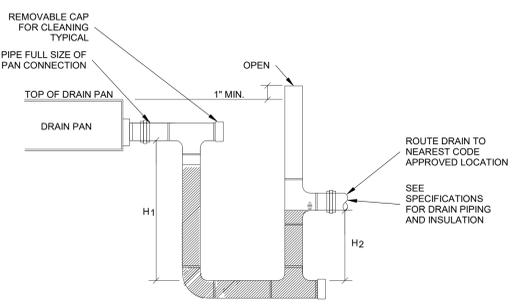
**M1.3**



**EXTERIOR DUCT INSULATION DETAIL**  
 NO SCALE MDE109



**DEEP SEAL TRAP DETAIL FOR RTU'S AND MAU'S**  
 NO SCALE MDE118



**TRAP DETAIL FOR AHU WITH OVERFLOW DRAIN CONNECTION**  
 NO SCALE MDE117

**CALCULATE TRAP DIMENSIONS USING FORMULAS OR DIMENSIONS LISTED BELOW. USE MANUFACTURER'S RECOMMENDATION IF MORE STRINGENT.**

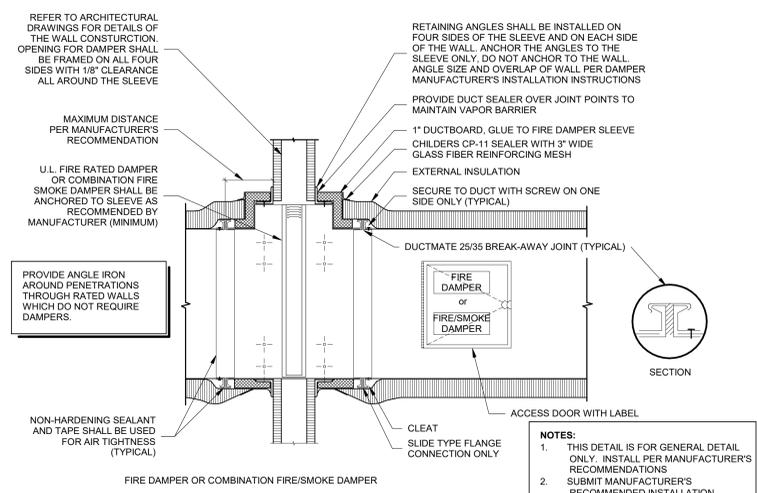
**FORMULAS FOR DRAW-THRU UNITS**  
 $H_1 = \text{NEGATIVE STATIC PRESSURE} \times 1.5 + 3.5'$   
 $H_2 = \text{NEGATIVE STATIC PRESSURE} \times 0.75 + 2.5'$

**MINIMUM DIMENSIONS FOR RESIDENTIAL AIRHANDLERS AND FURNACES UP TO 5 TONS**  
 $H_1 = 5'$   
 $H_2 = 3.5'$

**FORMULAS FOR BLOW-THRU UNITS**  
 $H_1 = H_2 + 0.5'$   
 $H_2 = \text{MAXIMUM POSITIVE STATIC PRESSURE} \times 1.5$

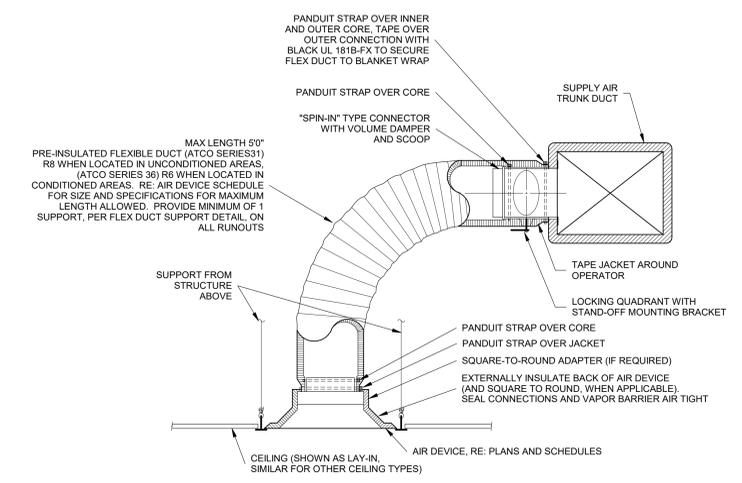
**MINIMUM DIMENSIONS FOR RESIDENTIAL AIR HANDLERS AND FURNACES UP TO 5 TONS**  
 $H_1 = 5'$   
 $H_2 = 1.5'$

**INSTALL 90 DEGREE ELBOW IN OVERFLOW DRAIN CONNECTION OF DRAIN PAN, TURN DOWN INTO AUXILIARY PAN WITH FLOAT SWITCH AND PIPED OFF IF SHOWN OR CALLED OUT ON PLANS**

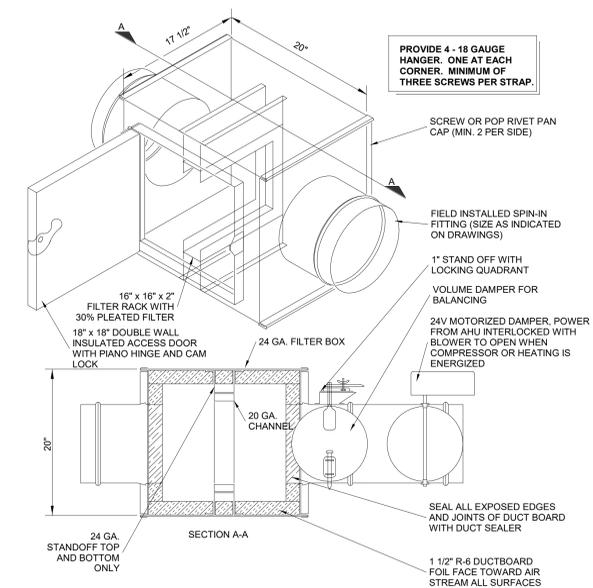


**RATED WALL PENETRATION**  
 NO SCALE MDE23

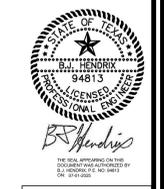
- NOTES:**
1. THIS DETAIL IS FOR GENERAL DETAIL ONLY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
  2. SUBMIT MANUFACTURER'S RECOMMENDED INSTALLATION DETAIL AT SUBMITTAL TIME
  3. ONE COPY OF MANUFACTURER'S RECOMMENDED INSTALLATION DETAIL TO BE KEPT ON JOB SITE. PROVIDE DAMPERS WITH U.L. RATINGS (1.5 OR 3 HR) THAT MATCH WALL RATINGS. VERIFY WALL TYPE WITH ARCHITECTURAL PLANS PRIOR TO ORDERING DAMPERS.
  4. ALL TAPES AND MASTICS MUST COMPLY WITH IECC.



**CEILING SUPPLY AIR DEVICE CONNECTION DETAIL**  
 NO SCALE MDE17



**INSULATED FILTER BOX**  
 NO SCALE MDE71



**REFERENCE GENERAL NOTES ON SHEETS M1.1, P1.1, AND E1.1 FOR ADDITIONAL INFORMATION**

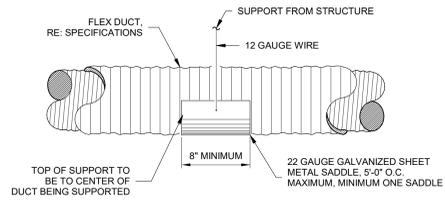
**MEP/ENERGY CONSULTANTS**

**HCE** HENDRIX CONSULTING ENGINEERS, INC.

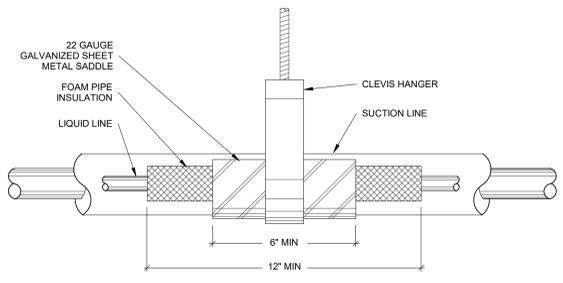
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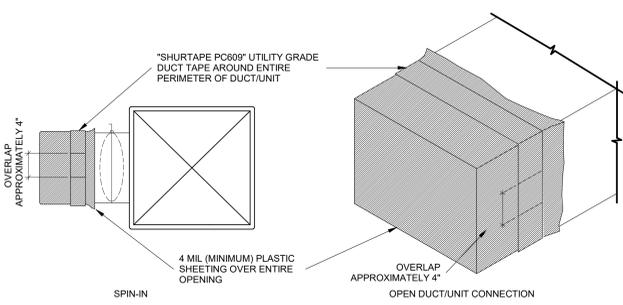
HCE job no.: 24-037



**FLEX DUCT SUPPORT**  
NO SCALE MDE19

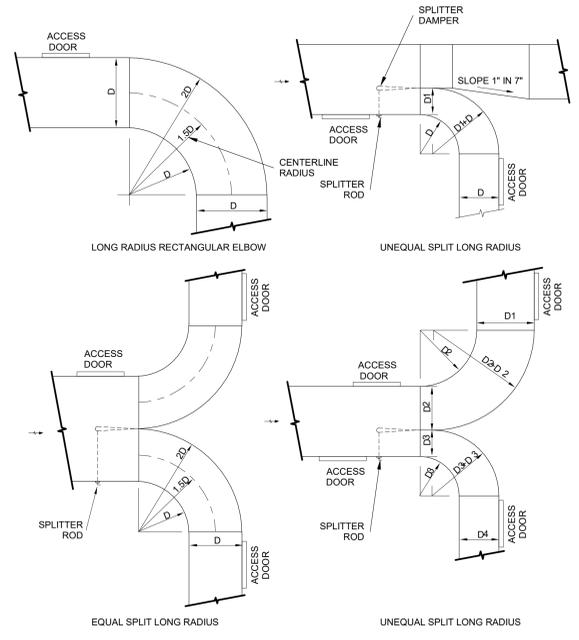


**REFRIGERANT PIPING SUPPORT DETAIL**  
NO SCALE MDE24

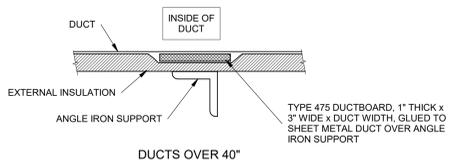
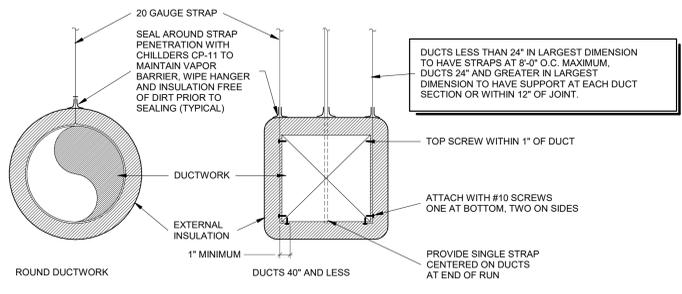


- A. CAP OPEN ENDS OF ALL DUCTS (INCLUDING SPIN-INS) AND EQUIPMENT WITH PLASTIC TO PREVENT CONSTRUCTION DEBRIS AND DUST FROM ENTERING OPENINGS DURING CONSTRUCTION.
- B. COVER ALL OPEN ENDS OF DUCTWORK WHILE SITTING ON GROUND (NOT INSTALLED). ALL PREFABRICATED DUCTWORK IN SHOP SHALL COME WITH ENDS PREWRAPPED WHEN DELIVERED TO THE SITE.
- C. CONTRACTOR SHALL CLEAN ALL DUCTWORK THAT IS NOT PROTECTED PROPERLY DURING CONSTRUCTION.

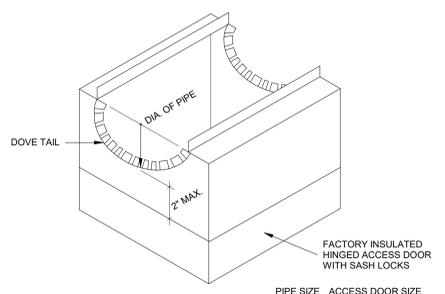
**DIRT BUSTER DETAIL**  
NO SCALE MDE10



**SPLITTER DETAIL**  
NO SCALE MDE06

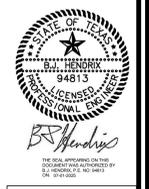


**DUCT DETAILS**  
NO SCALE MDE08



PIPE SIZE	ACCESS DOOR SIZE
6" Ø - 10 x 10	
8" Ø - 10 x 10	
10" Ø - 10 x 10	
12" Ø - 12 x 12	
14" Ø - 12 x 12	

**SADDLE TAP FOR ACCESS DOOR IN ROUND PIPE**  
NO SCALE MDE07



REFERENCE GENERAL NOTES ON SHEETS M1.1, P1.1, AND E1.1 FOR ADDITIONAL INFORMATION.

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E-4095  
HCE job no.: 24-037

**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
**DIOCESE OF VICTORIA**  
 HOUSTON, TX  
 DATE ISSUED: 07-02-2025

PROJECT NUMBER:  
1024-0623

SHEET NAME  
**DETAILS - MECHANICAL**

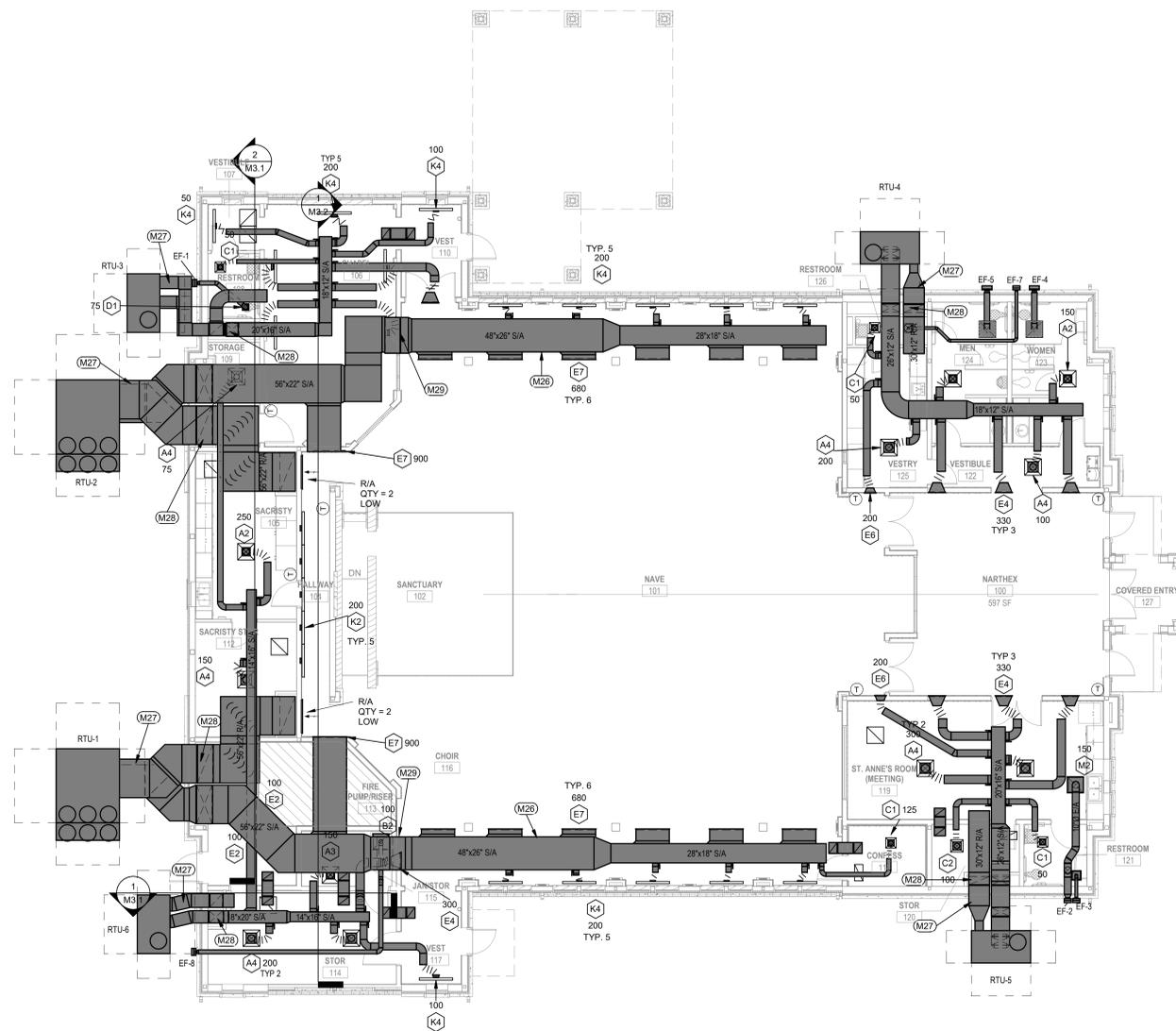
SHEET NUMBER

**M1.7**

7/2/2025 8:27:52 AM Autodesk Docs://HCE Clouded Models R22Q00THR-Catholic-Church-MEP22.rvt

Final Plans for Bidding and Construction

MECHANICAL KEY NOTES	
THESE NOTES APPLY TO THIS SHEET ONLY	
M26	INTERNALLY LINE SUPPLY DUCT.
M27	ROUTE SUPPLY AND RETURN DUCT EXPOSED. DUCTWORK SHALL BE OUTDOOR RATED.
M28	TRANSITION SUPPLY DUCTWORK UP/DOWN AS NEEDED IN CHASE.
M29	TRANSITION SUPPLY DUCTWORK AS NEEDED TO TRANSITION INTO FURR DOWN.



**01** FIRST FLOOR PLAN - MECHANICAL  
 SCALE: 1/8" = 1'-0"



REFERENCE GENERAL NOTES ON SHEETS M1.1, P1.1, AND E1.1 FOR ADDITIONAL INFORMATION

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**SITE KEY NOTES**

THESE NOTES APPLY TO THIS SHEET ONLY

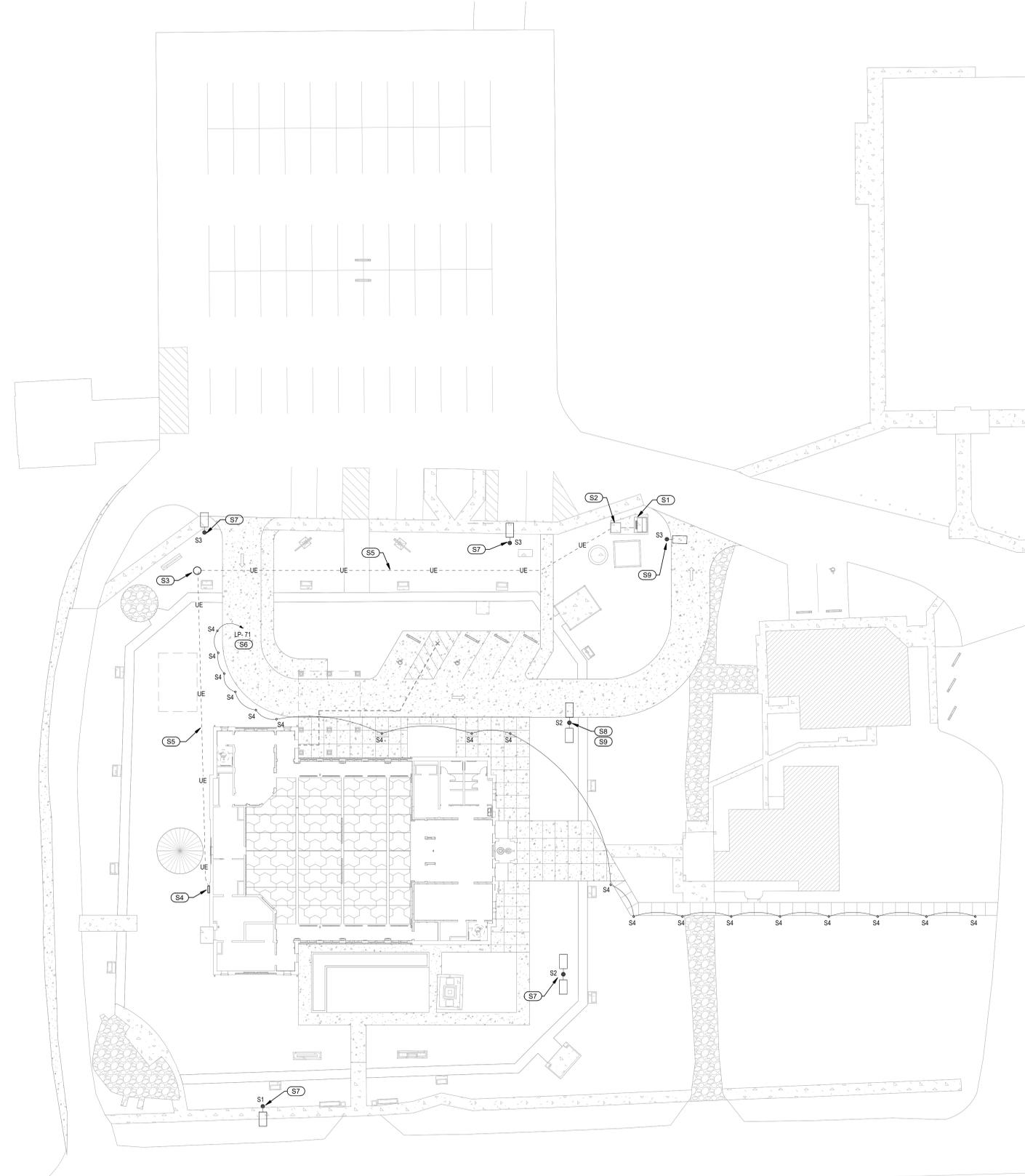
S1	APPROXIMATE LOCATION OF EXISTING UTILITY TRANSFORMER, UTILITY METER, AND ELECTRICAL GEAR. FIELD VERIFY EXISTING CONDITIONS.
S2	EXISTING 120/240-VOLT, 3-PHASE, 4-WIRE, DISTRIBUTION PANEL TO PROVIDE NEW ELECTRICAL SERVICE TO THE CHURCH. REFERENCE ELECTRICAL RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS. FIELD VERIFY EXISTING CONDITIONS.
S3	PROVIDE A MINIMUM 36" PULL BOX WITH CAST IRON COVER THAT READS ELECTRIC FOR CONDUIT RUN TO DISTRIBUTION PANEL 'DP1' AS REQUIRED. PROVIDE TRAFFIC BEARING COVER IN VEHICULAR AREAS.
S4	APPROXIMATE LOCATION OF DISTRIBUTION PANELBOARD 'DP1'. REFERENCE ELECTRICAL RISER PLAN AND FLOOR PLAN FOR ADDITIONAL REQUIREMENTS.
S5	UNDERGROUND ELECTRIC CONDUITS TO DISTRIBUTION PANEL 'DP1'. COORDINATE EXACT ROUTING WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION. REFERENCE ELECTRICAL RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.
S6	ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR FOR EXTERIOR LIGHTING CONTROL. REFERENCE LIGHTING CONTROL DETAILS.
S7	PROVIDE NEW LED LIGHT POLE FIXTURE AT EXISTING POLE LOCATION. UTILIZE EXISTING BRANCH CIRCUITS AND LIGHTING CONTROLS CURRENTLY SERVING THE EXISTING FIXTURES. FIELD VERIFY EXISTING CONDITIONS. PROVIDE NEW CONDUIT/WIRING AS REQUIRED.
S8	COORDINATE POLE LOCATIONS WITH CIVIL AND LANDSCAPE PRIOR TO INSTALLATION. POLE BASE SHALL BE DESIGNED BY THE STRUCTURAL ENGINEER.
S9	PROVIDE NEW LED LIGHT POLE FIXTURE AT LOCATION INDICATED. NEW POLE FIXTURE SHALL BE POWERED BY THE EXISTING BRANCH CIRCUITS AND LIGHTING CONTROLS CURRENTLY SERVING THE EXISTING SITE FIXTURES. FIELD VERIFY EXISTING CONDITIONS. PROVIDE NEW CONDUIT/WIRING AS REQUIRED.

**ALL SITE CIRCUITING IS DIAGRAMMATIC ONLY. DOES NOT INDICATE CONDUIT ROUTING. ELECTRICAL CONTRACTOR IS TO DETERMINE ALL FINAL CONDUIT ROUTING, COORDINATED WITH ALL SITE UTILITIES AND SITE CONDITIONS. REFERENCE CIVIL AND LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.**

**ELECTRICAL CONTRACTOR SHALL REFERENCE THE TECHNOLOGY DRAWINGS FOR ADDITIONAL CONDUITS, BOX ROUGH-IN, SLEEVING, GROUNDING, ETC. FOR ENTIRE PROJECT. THESE ITEMS WILL FALL UNDER THE ELECTRICAL CONTRACTOR'S SCOPE AND FAILURE TO COORDINATE ADDITIONAL ITEMS OF THE TECHNOLOGY DRAWINGS WILL NOT RELIEVE THE ELECTRICAL CONTRACTOR OF THE RESPONSIBILITY FOR THE INSTALLATION OF ADDITIONAL ITEMS.**

**ELECTRICAL SITE ALTERNATE #1**

- PULL ALL EXISTING SITE ELECTRICAL CONDUITS AND WIRING BACK TO THE PANELBOARD IT ORIGINATES FROM AND PROVIDE NEW CONDUIT/WIRING TO THE EXISTING JUNCTION BOXES, RECEPTACLES, AND LIGHTING LOCATED AT THE STATIONS AROUND THE SITE.
- CONTRACTOR SHALL UPDATE PANEL SCHEDULE AND PROVIDE AS-BUILT DRAWINGS THAT INDICATES THE CONDUIT ROUTING, CONDUIT SIZES, JUNCTION BOX LOCATIONS, AND BRANCH CIRCUITS. FIELD VERIFY EXISTING CONDITIONS.



**01 SITE PLAN - ELECTRICAL**  
 SCALE: 1" = 20'-0"



REFERENCE GENERAL NOTES ON SHEETS M1.1, P1.1, AND E1.1 FOR ADDITIONAL INFORMATION



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### MISCELLANEOUS EQUIPMENT SCHEDULES

**GENERAL NOTES:**  
**A.** ELECTRICAL CONTRACTOR TO PROVIDE 120V POWER TO ALL EQUIPMENT FROM NEAREST PANEL HAVING CAPACITY, UNLESS OTHERWISE NOTED.  
**B.** ELECTRICAL CONTRACTOR IS TO PROVIDE ALL PARTS AND LABOR TO MAKE FINAL CONNECTIONS TO ALL EQUIPMENT SHOWN IN CONTRACT DOCUMENTS. POWER MAY BE SHOWN IN GENERAL LOCATION. IT IS EXPECTED THAT THE ELECTRICAL CONTRACTOR COORDINATE FINAL LOCATION FOR ROUGH-IN AND CONNECT TO REQUIREMENTS WITH EXACT EQUIPMENT BEING INSTALLED. THESE ITEMS INCLUDE, BUT NOT LIMITED TO, BOOK SECURITY, EXHAUST FANS, KILNS, HAND DRYERS, SENSOR OPERATED PLUMBING DEVICES, ELECTRIC OVERHEAD DOORS, FIRE SMOKE DAMPERS, AIR PURIFICATION UNITS, ETC.

**DAIKIN VRE AC SYSTEMS**  
 REFERENCE FLOOR PLANS. PROVIDE SNAP SWITCH AT ALL BRANCH SELECTORS AND FCU FOR DISCONNECTING MEANS. CIRCUIT AS SHOWN. PROVIDE DISCONNECTS AS SHOWN FOR ALL AHU'S AND HRU'S. REFER TO PIPING AND WIRING DIAGRAMS ON THE MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.

**DAIKIN MINI SPLIT AC SYSTEMS**  
 POWER IS CONNECTED TO OUTDOOR UNIT. INDOOR UNIT IS FED FROM OUTDOOR UNIT AND POWER AND COMMUNICATION WIRES MUST BE RUN IN ITS OWN DEDICATED CONDUIT. REFERENCE PLANS AND MANUFACTURER'S INSTALLATION MANUAL.

**LIGHTING CONTROL**  
 REFERENCE LIGHTING CONTROL DETAILS AND NOTES.  
 1. EXTERIOR LIGHTS BY BAS.  
 2. INTERIOR LIGHTS BY "NLIGHT".

**POWER FOR SPECIAL SYSTEMS POWER SUPPLIES**  
 1. ELECTRICAL CONTRACTOR TO PROVIDE POWER TO ALL SECURITY, FIRE ALARM, ACCESS CONTROL, ETC. POWER SUPPLIES. COORDINATE EXACT LOCATION WITH SPECIAL SYSTEMS CONTRACTOR AND FLOOR PLANS. PROVIDE DEDICATED LOW VOLTAGE CIRCUIT TO NEAREST PANEL HAVING CAPACITY U.O.N.  
 2. LABEL ALL SPECIAL SYSTEMS POWER SUPPLIES WITH PANEL AND CIRCUIT NUMBERS.

**POWER ON FURNITURE ISLANDS**  
 PROVIDE TO MINIMUM 12" OR UNDER FLOOR TO FEED PLUGS DEVICES SHOWN ON CABINETS OR MILLWORK NOT ATTACHED TO WALLS.

**RECEPTACLES AT MILLWORK**  
 COORDINATE FINAL RECEPTACLE LOCATIONS AND ELEVATIONS WITH MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN. REVIEW ARCHITECTURAL INTERIORS ELEVATIONS FOR FINAL LAYOUTS OF EQUIPMENT TO BE POWERED. REFERENCE DEVICE MOUNTING HEIGHT DETAIL FOR MOUNTING HEIGHTS.

**ELECTRIC WATER COOLER (EWC) POWER**  
 RECEPTACLE FOR POWER TO BE LOCATED BEHIND EWC AND HAVE GFCI BREAKER AT PANEL. COORDINATE FINAL ROUGH-IN LOCATION WITH ACTUAL EQUIPMENT.

**ADA DOOR OPERATORS**  
 ELECTRICAL CONTRACTOR TO PROVIDE ALL LINE VOLTAGE CONNECTIONS FOR ADA DOOR OPERATORS. CIRCUIT IS SHOWN IN GENERAL AREA AND DOES NOT REPRESENT QUANTITY OF LINE VOLTAGE CONNECTIONS. ASSUME 3 LINE VOLTAGE CONNECTIONS PER DOOR TO BE OPERATED.  
 PROVIDE ROUGH-IN BOX, 3/4" C AND LOW VOLTAGE WIRES TO EACH INPUT DEVICE. TYPICAL INSTALL HAS 2 PUSHBUTTONS AND 1 KEYSWITCH LOCATED NEXT TO INTERIOR PUSHBUTTON. COORDINATE WITH ARCHITECT SPECIFICATIONS AND EXACT SYSTEMS BEING INSTALLED FOR ALL ROUGH-IN REQUIREMENTS. SPECIFIED BY OTHERS. THIS INFO FOR BIDDING PURPOSES ONLY PROVIDE ALL REQUIRED COMPONENTS FOR COMPLETE WORKABLE SYSTEM.

**SENSOR OPERATED PLUMBING DEVICES**  
 FOR GROUP RESTROOMS WITH SENSOR OPERATED PLUMBING DEVICES. ELECTRICAL CONTRACTOR TO PROVIDE 12" X 12" FLUSH MOUNTED JUNCTION BOX WITH HINGED ACCESS COVER FOR CONCEALING LOW VOLTAGE TRANSFORMER AND MINI JUNCTION BOX FOR LOW VOLTAGE POWER DISTRIBUTION (FOR LAVATORIES) TO POWER EACH SENSOR OPERATED DEVICE (UP TO 8 PER TRANSFORMER FOR LAVATORIES, UP TO 6 PER TRANSFORMER FOR URINALS). JUNCTION BOX TO BE MOUNTED DOWN LOW AT A CENTRAL LOCATION TO ALL DEVICES BEING SERVED AND NOT BLOCKED BY PLUMBING PIPES, ACCESSORIES, OR PARTITIONS. OBTAIN ARCHITECT APPROVAL OF ROUGH-IN LOCATION OF JUNCTION BOX PRIOR TO INSTALLATION. ELECTRICAL CONTRACTOR TO ROUTE 1/2" EMT CONDUIT WITH PULLSTRING FROM JUNCTION BOX TO A SINGLE GANG BOX WITH COVER PLATE AND GROMMET AT EACH LAVATORY LOCATION IN A NON-VISIBLE LOCATION APPROXIMATELY 6" BELOW EACH LAVATORY AND TO EACH ELECTRICAL SUPPLY FLANGE LOCATION FOR URINALS. REFERENCE MANUFACTURER'S INSTALLATION MANUAL FOR URINAL ROUGH-IN LOCATION. COORDINATE LOCATION WITH PLUMBING CONTRACTOR BASED ON ACTUAL PRODUCTS TO BE INSTALLED PRIOR TO INSTALLATION. PLUMBING CONTRACTOR TO PROVIDE LOW VOLTAGE TRANSFORMERS, MINI JUNCTION BOXES/LOW VOLTAGE DISTRIBUTION BLOCK (FOR LAVATORIES), AND LOW VOLTAGE POWER CORDS FROM MANUFACTURER FOR HARDWIRED CONNECTIONS AND TURN OVER TO THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL OTHER MATERIALS AND LABOR FOR COMPLETE INSTALLATION. PLUMBING CONTRACTOR TO COORDINATE REQUIRED LOW VOLTAGE CORD LENGTHS WITH ELECTRICAL CONTRACTOR BASED ON ACTUAL INSTALLATION REQUIREMENTS PRIOR TO RELEASE AND ROUGH-IN. WHEN AN ACCESSIBLE CHASE IS AVAILABLE, ALL POWER MUST BE RUN IN CHASE. ASSUME (1) ROUGH-IN PER POWERED PLUMBING DEVICE.

FOR SINGLE RESTROOM SINGLE LAVATORY LOCATIONS, CONTRACTOR SHALL PROVIDE A J-BOX OR RECEPTACLE AS REQUIRED FOR SUPPLIED LOW VOLTAGE TRANSFORMER LOCATED HIGH BELOW THE LAVATORY ON THE SAME WALL AND NOT BLOCKED BY PLUMBING PIPES, ACCESSORIES, ETC CIRCUITED TO THE RECEPTACLE CIRCUIT PROVIDED IN RESTROOM.

LOOSE LOW VOLTAGE CABLE STRUNG ACROSS WALL EXPOSED IN RESTROOMS WILL NOT BE ACCEPTED. PLANS MAY NOT SHOW POWER AT ANY OR ALL LOCATIONS. CONTRACTOR TO COORDINATE WITH THE SUBMITTED PLUMBING FIXTURES AND PROVIDE POWER AS REQUIRED.

**MOTORIZED CURTAIN BLINDS / SHADES**  
 CIRCUIT IS SHOWN IN GENERAL AREA AND DOES NOT REPRESENT QUANTITY OF LINE VOLTAGE CONNECTIONS. COORDINATE WITH ARCHITECT SPECIFICATIONS, SCHEDULES AND EXACT CURTAIN BEING PROVIDED FOR ALL ROUGH-IN REQUIREMENTS. CONNECT POWER TO MASTER CONTROL UNIT AND EACH CURTAIN / BLINDS / SHADES PER MANUFACTURER'S RECOMMENDATIONS. THIS INFO FOR BIDDING PURPOSES ONLY. PROVIDE ALL REQUIRED COMPONENTS FOR COMPLETE WORKABLE SYSTEM. PROVIDE ROUGH-IN AND CONNECTING CONDUIT FOR CONTROL OF BLINDS, WHEN NO LOCATION FOR CONTROL CAN BE COORDINATED. LOCATE NEXT TO ROOM LIGHT SWITCH AND LABEL. COORDINATE FINAL ROUGH-IN LOCATION AND FINAL REQUIREMENTS WITH OWNER/ARCHITECT.

**MOTORIZED DAMPERS**  
 PROVIDE 120V POWER TO ALL MOTORIZED DAMPERS SHOWN ON MECHANICAL DRAWINGS. COORDINATE DAMPER CONTROL REQUIREMENTS WITH MECHANICAL DRAWINGS.

**EXHAUST FAN**  
 ELECTRICAL CONTRACTOR SHALL WIRE ALL EXHAUST FANS TO BE CONTROLLED PER EXHAUST FAN SCHEDULE ON MECHANICAL SHEET. ELECTRICAL CONTRACTOR TO PROVIDE ALL RELAYS, CONTACTORS, SPRING WOUND TIMERS, ETC., AS REQUIRED PER SCHEDULE TO OPERATE AND CONTROL EXHAUST FAN. IF NO CONTROL IS SPECIFIED, EXHAUST FAN SHALL ENERGIZE WHEN LIGHTS IN ANY ROOM IT SERVES ARE POWERED ON. REFERENCE DETAIL ON ELECTRICAL SHEET FOR ADDITIONAL INFORMATION.

### BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE

NOTE:  
 A. PROVIDE INDIVIDUAL NEUTRALS FOR EACH CIRCUIT. NO SHARED NEUTRALS ALLOWED.

MARK	WIRE AND CONDUIT	SYSTEM MARK	WIRE AND CONDUIT	SYSTEM MARK	WIRE AND CONDUIT	SYSTEM		
(1)	2#12 1/2" C	LN	(32)	3#4 1" C	LLG	(83)	4#10 1#6G, 2" C	LLNG
(2)	2#12 1/2" C	LLG	(33)	3#4 1#6G, 1" C	LLG	(84)	2#10 1 1/2" C	LN
(3)	2#12 1/2" C	LLG	(34)	3#4 1#6G, 1" C	LLG	(85)	2#10 1#6G, 1 1/2" C	LLG
(4)	3#12 1/2" C	LLL	(35)	4#4 1#6G, 1 1/4" C	LLNG	(86)	2#20 1#6G, 1 1/2" C	LLG
(5)	3#12 1/2" C	LLG	(36)	2#3 1" C	LN	(87)	3#20 1 1/2" C	LLL
(6)	3#12 1/2" C	LLG	(37)	2#3 1#6G, 1" C	LLG	(88)	3#20 1#6G, 2" C	LLNG
(7)	4#12 1/2" C	LLG	(38)	2#3 1#6G, 1" C	LLG	(89)	3#20 1#6G, 2" C	LLG
(8)	2#10 1/2" C	LN	(39)	3#3 1" C	LN	(90)	4#20 1#6G, 2" C	LLNG
(9)	2#10 1/2" C	LLG	(40)	3#3 1#6G, 1 1/4" C	LLNG	(91)	2#30 1 1/2" C	LN
(10)	2#10 1/2" C	LLG	(41)	3#3 1#6G, 1 1/4" C	LLG	(92)	2#30 1#4G, 2" C	LLG
(11)	3#10 1/2" C	LLL	(42)	4#3 1#6G, 1 1/4" C	LLNG	(93)	2#30 1#4G, 2" C	LLG
(12)	3#10 1/2" C	LLG	(43)	2#2 1" C	LN	(94)	3#30 2" C	LLL
(13)	3#10 1/2" C	LLG	(44)	2#2 1#6G, 1" C	LLG	(95)	3#30 1#4G, 2" C	LLNG
(14)	4#10 1/2" C	LLNG	(45)	2#2 1#6G, 1" C	LLG	(96)	3#30 1#4G, 2" C	LLG
(15)	2#8 1/2" C	LN	(46)	3#2 1 1/4" C	LLG	(97)	4#30 1#4G, 2 1/2" C	LLNG
(16)	2#8 1#10G, 3/4" C	LLG	(47)	3#2 1#6G, 1 1/4" C	LLG	(98)	2#40 2" C	LN
(17)	2#8 1#10G, 3/4" C	LLG	(48)	3#2 1#6G, 1 1/4" C	LLG	(99)	2#40 1#4G, 2" C	LLG
(18)	3#8 3/4" C	LLL	(49)	4#2 1#6G, 1 1/4" C	LLNG	(100)	2#40 2" C	LN
(19)	3#8 1#10G, 3/4" C	LLG	(50)	2#1 1 1/4" C	LN	(101)	3#40 2" C	LLL
(20)	3#8 1#10G, 3/4" C	LLG	(51)	2#1 1#6G, 1 1/2" C	LLG	(102)	3#40 1#4G, 2 1/2" C	LLNG
(21)	4#8 1#10G, 1" C	LLNG	(52)	2#1 1#6G, 1 1/4" C	LLG	(103)	3#40 1#4G, 2 1/2" C	LLG
(22)	2#6 3/4" C	LN	(53)	3#1 1 1/2" C	LN	(104)	4#40 1#4G, 2 1/2" C	LLNG
(23)	2#6 1#10G, 3/4" C	LLG	(54)	3#1 1#6G, 1 1/2" C	LLG	(105)	2#50 3" C	LN
(24)	2#6 1#10G, 3/4" C	LLG	(55)	3#1 1#6G, 1 1/2" C	LLG	(106)	2#50 1#4G, 3" C	LLG
(25)	3#6 3/4" C	LLL	(56)	4#1 1#6G, 1 1/2" C	LLNG	(107)	2#50 1#4G, 3" C	LLG
(26)	3#6 1#10G, 3/4" C	LLG	(57)	2#10 1 1/4" C	LN	(108)	3#50 3" C	LN
(27)	3#6 1#10G, 3/4" C	LLG	(58)	2#10 1#6G, 1 1/2" C	LLG	(109)	3#50 1#4G, 3" C	LLNG
(28)	4#6 1#10G, 1" C	LLNG	(59)	2#10 1#6G, 1 1/2" C	LLG	(110)	3#50 1#4G, 3" C	LLG
(29)	2#4 3/4" C	LN	(60)	3#10 1 1/2" C	LLG	(111)	4#250 1#4G, 3" C	LLNG
(30)	2#4 1#6G, 1" C	LLG	(61)	3#10 1#6G, 2" C	LLG			
(31)	2#4 1#6G, 1" C	LLG	(62)	3#10 1#6G, 2" C	LLG			

### ELECTRICAL ABBREVIATION SCHEDULE

ABBREVIATION	MEANING	ABBREVIATION	MEANING
A	AMPERES	MECH	MECHANICAL
AC	AIR CONDITIONING	MH	MANHOLE
AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM
AHU	AIR HANDLING UNIT	MISC	MISCELLANEOUS
AL	ALUMINUM	MLO	MAIN LUG ONLY
AUTO	AUTOMATIC	MSB	MAIN SWITCHBOARD
AUX	AUXILIARY	NEC	NATIONAL ELECTRICAL CODE
BFF	BELOW FINISHED FLOOR	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BLDG	BUILDING	NF	NON-FUSED
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CKT	CIRCUIT	NTS	NOT TO SCALE
COL	COLUMN	OC	ON CENTER(S)
CON	CONCRETE	OE	OVERHEAD ELECTRIC
CONST	CONSTRUCTION	OT	OVERHEAD TELEPHONE
CONTR	CONTRACTOR	PC	PLUMBING CONTRACTOR
CTV	CABLE TELEVISION	PH	PHONE
DWG	DRAWING	PNL	PANEL
E	ELECTRICAL CONTRACTOR	PVC	POLYVINYL CHLORIDE
EF	EXHAUST FAN	REF	REFERENCE/REFER TO
DN	DOWN	RECP	RECEPTACLE
ELEC	ELECTRICAL	RIG	RIGID GALVANIZED STEEL CONDUIT
EMT	ELECTRICAL METALLIC TUBING	RS	ROOM
EQUIP	EQUIPMENT	SCH	SCHEDULE
EX	EXISTING	SPD	SURGE PROTECTIVE DEVICE
FA	FIRE ALARM	SPEC	SPECIFICATIONS
FF	FINISHED FLOOR	T	TELEPHONE
FLR	FLOOR/FLOORING	TTB	TELEPHONE TERMINAL BOARD
G	GROUND	TYP	TYPICAL
GC	GENERAL CONTRACTOR	UC	UNDERGROUND CONDUIT
GI	GROUND FAULT INTERRUPT	UE	UNDERGROUND ELECTRIC
HD	HEAVY DUTY	UL	UNDERWRITER'S LABORATORIES
HP	HORSEPOWER	UN	UNLESS OTHERWISE NOTED
IMC	INTERMEDIATE METAL CONDUIT	UT	UNDERGROUND TELEPHONE
KVA	KILOVOLT-AMPERES	V	VOLTS/VOLTAGE
KW	KILOWATTS	VA	VOLT-AMPERES
LCT	LIGHT/LIGHTING	W	WATTS
MAX	MAXIMUM	W/	WITH
MC	MECHANICAL CONTRACTOR	W/O	WITHOUT
MCB	MAIN CIRCUIT BREAKER	WP	WEATHER PROOF
MDP	MAIN DISTRIBUTION PANEL	XFMR	TRANSFORMER

### SPECIAL SYSTEM SYMBOL SCHEDULE

NOTE:  
 A. REFERENCE OWNER SPECIFICATIONS FOR ADDITIONAL INFORMATION.  
 B. THIS IS FOR GENERAL LOCATION ONLY. ALL DEVICES AND CABLING PER OWNER SPECIFICATIONS.  
 C. ALL DEVICE HEIGHTS ARE REFERENCED TO CENTER OF DEVICE.

SYMBOL	DESCRIPTION	REMARKS
FACP	FIRE ALARM CONTROL PANEL	
FASP	FIRE ALARM ANNUNCIATOR PANEL	
(S) WP	SPEAKER, WALL MOUNTED WEATHER RESISTANT, 120" AFF U.O.N.	
(TV)	TELEVISION POWER, 72" AFF U.O.N. OR SPECIFIED BY TECHNOLOGY CONSULTANT/OWNER	
(UC)	UTILITY CONTROLLER (REFERENCE UTILITY CONTROLLER BLOCK NOTE)	
(C)	CLOCK, SINGLE FACED WALL MOUNTED, 96" AFF UON	
(C)	CLOCK, DOUBLE FACED WALL MOUNTED, 96" AFF UON	
CDU	CENTRAL DISPLAY UNIT	
(W) WP	WEATHER PROOF EXTERIOR FIRE ALARM HORN	
(K)	SECURITY KEY PAD, 48" AFF UON	34" C ABOVE CEILING
(R)	BADGE READER FOR SECURITY SYSTEM, 48" AFF UON	34" C ABOVE CEILING
(B)	LIGHTING RELAY ZONE OVERRIDE CONTROL BUTTON	34" C ABOVE CEILING
(C)	ROUGH-IN FOR CAMERA (WEATHERPROOF BOX FLUSH WITH EXTERIOR WALL)	1" C ABOVE CEILING
(C)	CEILING MOUNTED CAMERA LOCATION (DATA DROP, CAMERA BY OTHERS)	
(C)	INTERCOM PROGRAM PHONE LOCATION	34" C ABOVE CEILING
(M)	MAG DOOR HOLD OPEN, POWERED BY SPECIAL SYSTEMS	
(L)	LOCK DOWN DEVICE	34" C ABOVE CEILING
(D)	120V POWER FOR DOOR SECURITY POWER SUPPLY (COORDINATE WITH DOOR MFR)	
(H)	120V POWER FOR HANDICAP DOOR POWER SUPPLY (REF MISC EQUIPMENT SCHEDULE)	
(D)	DOOR BUZZER, CONFIRM LOCATION WITH OWNER	34" C ABOVE CEILING
(V)	INTERCOM VOLUME CONTROL	34" C ABOVE CEILING
(H)	OVERHEAD DOOR POWER	
(H)	OVERHEAD DOOR CONTROL LOCATION	
(S)	INTERCOM SPEAKER	
(H)	HAND DRYER POWER (PROVIDE SNAP SWITCH DISCONNECT ABOVE CEILING)	SPECIFIED BY ARCHITECT
(D)	DISHWASHER POWER	
(F)	CIRCULATING FAN POWER	
(S)	WALL MOUNTED MOTION SENSOR	
(C)	FIRE SPRINKLER POWER	
(M)	MOTORIZED BLINDS	

### DEVICE SYMBOL SCHEDULE

NOTES:  
 A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.  
 B. ALL DEVICE PART NUMBERS ARE HUBBELL, UNLESS NOTED OTHERWISE.  
 C. ALL DEVICE HEIGHTS ARE REFERENCED TO CENTER OF DEVICE.

SYMBOL	DESCRIPTION	REMARKS
(S)	SINGLE RECEPTACLE 20A/120V 18" AFF UON	HBL5361W
(S)	DUPLEX RECEPTACLE 20A/120V 18" AFF UON-TAMPER RESISTANT, UON	CR20WHTR
(S)	DUPLEX RECEPTACLE WITH DUAL USB 20A/120V 18" AFF UON	USB20ACPDW
(S)	DUPLEX RECEPTACLE 20A/120V 18" AFF UON WITH GROUND FAULT INTERRUPTER	GFRTR20W
(S)	SWITCHED DUPLEX RECEPTACLE 20A/120V 18" AFF UON - TOP CONTROLLED	BR20C1VHTR
(S)	FOURPLEX RECEPTACLE 20A/120V 18" AFF UON	(2) CR20WHTR
(S)	FOURPLEX RECEPTACLE 20A/120V, (1) WITH DUAL USB 18" AFF UON	(1) CR20WHTR, (1) USB20ACSW
(S)	SWITCHED FOURPLEX RECEPTACLE 20A/120V 18" AFF UON - TOP CONTROLLED	(2) BR20C1VH
(S)	CLOCK RECEPTACLE 120V 96" AFF UON	HBL5325
(S)	SPECIAL PURPOSE RECEPTACLE 18" AFF SEE PLANS FOR DETAILS	
(S)	CEILING MOUNTED DUPLEX RECEPTACLE 20A/120V (FLUSH)	CR20-W
(S)	DUPLEX RECEPTACLE 20A/120V MOUNTED ABOVE COUNTER, HEIGHT SPECIFIED BY ARCHITECT	CR20WHTR
(S)	DUPLEX RECEPTACLE FOR PROJECTOR	
(S)	WEATHER/TAMPER-RESISTANT DUPLEX RECEPTACLE WITH "N-USE" COVER 20A/120V 18" AFF UON	GFRTR20W/ WP26M
(S)	DUPLEX GFI RECEPTACLE 20A/120V MOUNTED ABOVE COUNTER, HEIGHT SPECIFIED BY ARCHITECT	CR20WHTR
(S)	SAFETY TYPE DUPLEX RECEPTACLE 20A/120V 18" AFF UON	CR20WHTR
(S)	DUPLEX RECEPTACLE, FLOOR MOUNTED FLUSH (PROVIDE 1" CONDUIT IN SLAB OR BELOW FLOOR FROM NEAREST WALL TO LOCATION CONFIRMED WITH ARCHITECT.)	CR20WHTR, CFB2G30RCR, CFB518CVR OR FOR POKE THRU, CR20WHTR, S1R4PFTIT S1R4SPDUPLEX, S1R4CVR
(S)	FOURPLEX RECEPTACLE, FLOOR MOUNTED FLUSH (PROVIDE 1" CONDUIT IN SLAB OR BELOW FLOOR FROM NEAREST WALL TO LOCATION CONFIRMED WITH ARCHITECT.)	(2) CR20WHTR, CFB2G30RCR, CFB518CVR OR FOR POKE THRU, (2) CR20WHTR, S1R4PFTIT (2) S1R4SPDUPLEX, S1R4CVR
(S)	EXISTING DUPLEX RECEPTACLE	
(S)	EXISTING FOURPLEX RECEPTACLE	
(S)	EXISTING 200V RECEPTACLE	
(S)	SINGLE POLE SWITCH 20A, 48" AFF UON	CS120W
(S)	DIMMER SWITCH, 48" AFF UON, SEE PLAN FOR DETAIL	
(S)	SWITCH WITH PILOT LIGHT, 48" AFF UON	HBL1221PL
(S)	TWO POLE SWITCH 20A, 48" AFF UON	CS1222W
(S)	TIMER SWITCH, 48" AFF UON	INTERMATIC FF60MC
(S)	FAN SWITCH, 48" AFF UON	RF51

### DISTRIBUTION SYMBOL SCHEDULE

NOTES:  
 A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.

SYMBOL	DESCRIPTION	REMARKS
(H)	HOMERUN (REFER TO PANEL SCHEDULES FOR CONDUIT/WIRING)	
(R)	CIRCUIT ROUTED THRU CONTRACTOR OR RELAY	
(U)	UNDERGROUND ELECTRIC	
(UC)	UNDERGROUND COMMUNICATION	
(OE)	OVERHEAD ELECTRIC	
(OC)	OVERHEAD COMMUNICATION	
(H+)	CIRCUIT INDICATORS (HOT, NEUTRAL, GROUND, SWITCH/LEG)	
(P)	PHOTOCELL	
(J)	JUNCTION BOX	
(J)	JUNCTION BOX, FLOOR MOUNTED FLUSH	
(J)	JUNCTION BOX, WALL MOUNTED - 3/4" C ABOVE CEILING	
(S)	MANUAL STARTER WITH THERMAL TRIP	
(S)	DISCONNECT SWITCH, REFER TO DISCONNECT SCHEDULE	
(S)	STARTER	
(S)	COMBINATION STARTER/DISCONNECT SWITCH, REFER TO SCHEDULE	
(S)	POWER AND/OR LIGHTING PANELBOARD, REFER TO PANELBOARD SCHEDULE	
(S)	SWITCHBOARD, REFER TO SWITCHBOARD SCHEDULE	
(S)	TRANSFORMER, REFER TO TRANSFORMER SCHEDULE	

### GENERAL NOTES

A. THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS AS THEY EXIST. SUBMISSION OF BID INDICATES THE CONTRACTOR'S UNDERSTANDING OF EXISTING CONDITIONS AND HIS WILLINGNESS TO WORK WITH THESE CONDITIONS. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF COORDINATION WITH EXISTING CONDITIONS OR OTHER TRADES.

B. CONTRACTOR IS TO REVIEW AND COMPARE ALL DRAWINGS SO ALL WORK IN THEIR RESPECTIVE TRADE IS INCLUDED IN BID. EACH CONTRACTOR SHALL INCLUDE ALL MATERIALS AND INSTALLATION REQUIRED FOR HIS PARTICULAR TRADE AFTER COMPLETE REVIEW OF ALL CONTRACT DRAWINGS AND SPECIFICATIONS.

C. ALL WORK SHALL COMPLY WITH THE CURRENT APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY NFPA, BUILDING CODE, MECHANICAL CODE, PLUMBING CODE, NATIONAL ELECTRICAL CODE, ADA, TAS, AND OSHA, AS THEY APPLY TO THIS PROJECT. EXCEPT IN CASES WHERE LOCAL STATUTES GOVERN, THE CONTRACTOR SHALL VERIFY WITH AUTHORITY HAVING JURISDICTION THE LATEST ADOPTED LOCAL CODES, ORDINANCES AND AMENDMENTS THAT APPLY TO THIS PROJECT.

D. THE ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE, SIZES OF BREAKERS, FUSES, WIRES, ETC., FOR ALL EQUIPMENT TO BE PROVIDED, INCLUDING BUT NOT LIMITED TO HVAC, LIGHTING, PUMPS, HEATERS, ETC. AND REPORT DISCREPANCIES TO THE ENGINEER/ARCHITECT PRIOR TO INSTALLATION OF CONDUIT. COORDINATE WITH MECHANICAL/ELECTRICAL COORDINATION SHEET PROVIDED BY MECHANICAL CONTRACTOR FOR ACTUAL EQUIPMENT BEING USED.

E. HOMERUNS SHALL BE COORDINATED WITH PANELBOARDS. ALL WIRING AND CONDUIT SHALL BE CONCEALED, EXCEPT IN ELECTRICAL ROOMS AND EXPOSED STRUCTURE AREAS.

F. ALL WIRING SHALL BE FREE OF SHORTS AND GROUNDS. NO WIRING SHALL BE LOADED BEYOND THE PERMITTED AMPACITIES ALLOWED BY CURRENT N.E.C.

G. MINIMUM WIRE/CABLE SIZES, EXCEPT FOR CLASS 2 LOW VOLTAGE CIRCUITS, ARE #12 AWG COPPER IN 1/2" CONDUIT, WHERE THE DISTANCE BETWEEN THE SUPPLYING PANEL AND THE FIRST BRANCH CIRCUIT RECEPTACLE OR LIGHT FIXTURE IS MORE THAN 10

## DISCONNECT SWITCH SCHEDULE

**REMARKS:**  
 A. THIS SCHEDULE IS NOT A COMPREHENSIVE DISCONNECT SCHEDULE. REFERENCE OTHER ELECTRICAL CONNECTION SCHEDULES FOR ADDITIONAL DISCONNECT REQUIREMENTS.  
 B. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN.  
 C. WHEN THE LENGTH OF THE SECONDARY CONDUCTORS OF ANY TRANSFORMER EXCEEDS TEN FEET, PROVIDE AN ENCLOSED CIRCUIT BREAKER OR FUSED DISCONNECT WITHIN TEN FEET OF THE TRANSFORMER SECONDARY TERMINALS IN ACCORDANCE WITH NEC ARTICLE 240.21(C)(2). THIS OVERCURRENT DEVICE SHALL HAVE AN AMP RATING EQUAL TO THE AMP RATING OF THE PANEL BEING SERVED. THE PANEL BEING FED MAY BE CHANGED TO MAIN LUG ONLY.  
 D. PROVIDE LUG KITS AND/OR WIRING CUTTERS FOR PANELS WITH OVERSIZED CONDUCTORS DUE TO VOLTAGE DROP AND/OR DISTANCE. MAKE CONNECTIONS IN ACCORDANCE WITH THE N.E.C.  
 E. PROVIDE SHOP DRAWINGS OF ALL ELECTRIC ROOMS INDICATING ALL PANEL, TRANSFORMER AND DISCONNECT LOCATIONS. ELECTRICAL EQUIPMENT MAY SHIFT IN LOCATION TO INSURE PROPER CLEARANCES.  
 F. PROVIDE DISCONNECTING MEANS FOR ALL EQUIPMENT PER N.E.C.  
 G. **DISCONNECTS MOUNTED ABOVE CEILING MUST BE MOUNTED TO BE READILY ACCESSIBLE NEAR UNIT. HANDLE TO BE NO MORE THAN 36" ABOVE CEILING GRID.**  
 H. **ALL EXTERIOR DISCONNECTS ARE TO BE MOUNTED BELOW LINE OF SIGHT OF A SCREEN WALL OR IF SINGLE DISCONNECT, LEVEL WITH TOP OF CONDENSER. VERIFY LOCATION WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.**  
 I. **U.O.N. FOR ALL PANELS SUBIED FROM TRANSFORMERS THAT REQUIRE DISCONNECT, REFERENCE TRANSFORMER SCHEDULE SECONDARY BREAKER SIZE FOR ALL ENCLOSURE TYPE AND DISCONNECT/FUSE SIZING INFORMATION.**

MARK	VOLTAGE			AMPERES RATING			POLES			ENCLOSURE FUSES			REMARKS
	120	240	277	15	20	30	1	2	3	NEMA 1	NEMA 3R	NON-USED	
RTU-1,-2													
RTU-3,-6													
RTU-4,-5													
SEPTIC PUMP													
LEFT TRMU-7 (SNAP SWITCH)													
WH-1, WH-2													

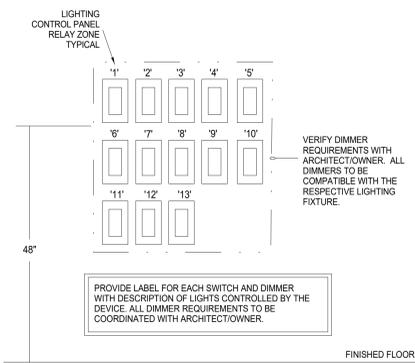
## NLIGHT - DEVICE SYMBOL SCHEDULE

**NOTES:**  
 A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.  
 B. ALL DEVICE PART NUMBERS ARE NLIGHT UNLESS OTHERWISE NOTED.  
 C. THESE DEVICES SHOULD BE USED IN ALL AREAS TO BE CONTROLLED BY NLIGHT.  
 D. MOTION SENSOR: WHERE MOTION SENSORS ARE SHOWN ON PLANS, THAT INDICATES AREA SHOULD BE COVERED IN FULL BY MOTION SENSORS. IT IS UP TO MOTION SENSOR PROVIDER TO PROVIDE APPROPRIATE QUANTITY, LAYOUT, AND TYPE OF MOTION SENSORS FOR COMPLETE COVERAGE. PROVIDE SHOP DRAWINGS AT SUBMITTAL PHASE.  
 E. PHOTOCELLS: WHERE PHOTOCELLS ARE SHOWN ON PLANS OR IN TYPICAL DETAILS, IE CLASSROOMS, PHOTOCELL LOCATION AND QUANTITY SHOULD BE DETERMINED BY PHOTOCELL PROVIDER. PHOTOCELLS ARE INTENDED TO DIM LIGHTS IN DAYLIGHT ZONES AS INDICATED BY IECC 2018.  
 F. IF MULTIPLE ZONE CONTROL IS INDICATED FOR A SPACE AND THOSE ZONES ARE NOT CLEAR TO CONTRACTOR, THE CONTRACTOR IS TO MAKE BEST ASSUMPTION IN SHOP DRAWING PHASE AND NOTE AREAS IN QUESTION. ENGINEER WILL REVIEW AND MAKE ANY ADJUSTMENTS TO ZONES AT THAT TIME.  
 G. MANUFACTURER TO PROVIDE A COMPLETE SET OF SHOP DRAWINGS INDICATING ALL ASPECTS OF LIGHTING CONTROL AT A MINIMUM OF 1/8" = 1' SCALE WITH CLEAR DESCRIPTIONS AND LEGENDS FOR SYMBOLS.  
 H. BASIC COMPONENTS ARE CALLED FOR HERE. IT IS EXPECTED THAT MANUFACTURER PROVIDES ALL COMPONENTS FOR A COMPLETE WORKABLE SYSTEM.  
 I. FACTORY START-UP IS REQUIRED FOR ALL NLIGHT SPACES.  
 J. CONTRACTOR SHOULD SEND COMPLETE SET OF ELECTRICAL PLANS TO NLIGHT FACTORY REP TO ENSURE A COMPLETE BID.  
 K. CONTRACTOR TO ASSUME ALL DEVICES INTER-CONNECTED WITH CAT-5 CABLE. PROVIDE ALL REQUIRED CABLING BETWEEN DEVICES. CABLE COLOR IS TO BE COORDINATED WITH THE TECHNOLOGY CABLE TO BE A DIFFERENT COLOR. NO ZIP TIES MAY BE USED FOR SECURING CABLE. ONLY VELCRO TIES MAY BE USED.

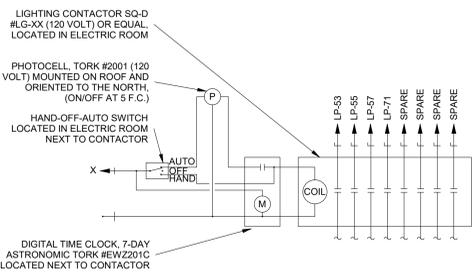
SYMBOL	DESCRIPTION	REMARKS
S <sup>DT</sup>	DUAL TECHNOLOGY WALL MOUNT MOTION AND DIMMING	#WSXA-PDT-LV-DX
S <sup>C1</sup>	ONE ZONE CONTROLLER, ON/OFF AND DIMMING	#PDDMA-DX
S <sup>C2</sup>	TWO ZONE CONTROLLER, ON/OFF AND DIMMING	#PDDMA-2P-DX
S <sup>C4</sup>	FOUR ZONE CONTROLLER, 4 PRESET TOGGLE BUTTONS	#PDDMA-4S-DX
S <sup>K</sup>	ONE ZONE KEYPAD CONTROLLER, ON/OFF AND DIMMING	#PDD-KEY
S <sup>CR</sup>	COLOR SCENE CONTROLLER	#PDDMA-4S-EDUTW
S <sup>DR</sup>	LIGHTING CONTROL PANEL OVERRIDE SWITCH	#PDDMA-DX
M <sup>DT</sup>	MOTION SENSOR, DT (DUAL TECHNOLOGY)	#CM-PDT-9
M <sup>DT</sup>	MOTION SENSOR, DT (DUAL TECHNOLOGY)	#CM-PDT-10
M <sup>DT</sup>	MOTION SENSOR, DT (DUAL TECHNOLOGY)	#WV-PDT-16
P	PHOTOCELL	#CM-ADXC

## NLIGHT INTERIOR LIGHTING SCHEDULE

**GENERAL NOTES:**  
 POWER PACKS FOR FIXTURES THAT ARE NOT NLIGHT COMPATIBLE. PROVIDE POWER PACKS TO ACHIEVE ZONING INDICATED ON PLANS.  
 AREAS WITH HIGH CEILINGS (25FT OR HIGHER). PROVIDE POWER PACKS TO ACHIEVE ZONING INDICATED ON PLANS. LOCATE POWER PACKS IN ACCESSIBLE LOCATION FROM LIGHTING PANEL SERVING CIRCUITS.  
 WHEN POWER PACKS ARE PROVIDED, CONTRACTOR MUST PROVIDE 0-10V DIMMING WIRES FROM POWER PACK TO FIXTURE FOR CONTROL IN LIEU OF CAT-5 CABLE.  
 NLIGHT MANUFACTURER TO PROVIDE NLIGHT ENABLED FIXTURES OR POWER PACKS TO ACHIEVE ZONING SHOWN ON PLANS FOR SWITCHING AND DAYLIGHT ZONES TO PROVIDE BEST VALUE TO THE PROJECT.  
**MOTION SENSORS**  
 PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR ENTIRE BUILDING, EXCEPT ELECTRIC ROOMS, AND AS WHEN NOTED EXCEPTION SHOWN ON PLANS. PROVIDE DUAL TECHNOLOGY MOTION SENSORS IN EVERY ROOM AS REQUIRED BY IECC 2018. ASSUME CEILING MOUNT UNLESS WALL MOUNT SHOWN.  
**VACANCY SENSORS**  
 PROVIDE COMPLETE DUAL TECHNOLOGY VACANCY SENSOR COVERAGE PER IECC 2018 IN ALL AREAS EXCEPT EMERGENCY EGRESS CORRIDORS AND PATHWAYS. SHOP DRAWING REQUIRED.  
**OCCUPANCY SENSORS**  
 PROVIDE COMPLETE DUAL TECHNOLOGY OCCUPANCY SENSOR COVERAGE PER IECC 2018 IN ALL EMERGENCY EGRESS CORRIDORS AND PATHWAYS. SHOP DRAWING REQUIRED.  
**CONTROL STATION**  
 ALL ROOMS SHALL HAVE A CONTROL STATION FOR CONTROL OF LIGHTS IN ROOM. IF NO CONTROL STATION IS SHOWN, ASSUME A TWO ZONE CONTROLLER FOR ROOMS LARGER THAN 9' X 9' AND A WALL MOUNT DUAL TECHNOLOGY CONTROLLER FOR ROOMS SMALLER THAN 9' X 9'.  
**PROGRAMMING MODULE**  
 PROVIDE (2) NIO BT BLUETOOTH PROGRAMMING MODULES WITH PROJECT AND PROVIDE TO OWNER FOR OWNERS FUTURE USE. STARTUP TECHNICIAN SHALL PROVIDE OWNER TRAINING ON USE OF MODULE.  
**PROGRAMMING FOR SPECIAL CONTROLLERS**  
 PROVIDE MINIMUM 2 DAYS FOR PROGRAMMING AND OWNER TRAINING FOR THE NP0D GFX AND TVOCUE LIGHTING CONTROLLERS SPECIFIED BELOW. COORDINATE WITH OWNER FOR ALL SCENE PROGRAMMING INCLUDING SPECIFIC SCENES SPECIFIED IN THE SECTIONS BELOW AND OTHERS THAT THE OWNER MAY REQUEST.  
**SPACE TYPE DESCRIPTION:**  
**SANCTUARY LIGHTING**  
 A. PROVIDE (2) FRESCO TOUCH SCREEN CONTROL STATIONS AS SHOWN ON PLANS. MODEL # FCS-7TSN-DBL.  
 B. TWO ZONE CONTROL.  
 1. TYPE 'N2' PENDANTS WITH UPLIGHTS AND DOWNLIGHTS.  
 2. TYPE 'M4' BARREL VAULT COVE LIGHTS.  
 3. TYPE 'M4' ARCHWAY COVE LIGHTS.  
 C. PROVIDE TIME CLOCK CONTROL FROM FRESCO FOR AUTO OFF. COORDINATE TIMES WITH OWNER.  
 D. PROVIDE ALL LINE VOLTAGE AND 0-10V DIMMING WIRING FROM RELAY PANEL TO FIXTURES.  
**NARTHEX LIGHTING**  
 A. PROVIDE CONTROL STATIONS AS SHOWN ON PLANS.  
 B. TWO (2) BUTTON ZONE CONTROL. ZONES INDICATED ON PLANS.  
 C. PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR MAJOR MOVEMENTS. AUTO ON / WHEN NO MOTION IS DETECTED AFTER 15 MINUTES. LIGHTS SHALL BE DIMMED TO 10%. IF NO ADDITIONAL MOTION IS DETECTED AFTER 5 MINUTES, LIGHTS SHALL POWER OFF. SHOP DRAWING REQUIRED.  
**HALLWAYS AND STAIRWELLS**  
 A. PROVIDE CONTROL STATIONS AS SHOWN ON PLANS. ANY CONTROL STATION IN A CONTINUOUS CORRIDOR IS TO CONTROL THE ENTIRE CORRIDOR. NOT PORTIONS THEREOF. U.O.N. ON PLANS.  
 B. PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR MAJOR MOVEMENTS. AUTO ON / WHEN NO MOTION IS DETECTED AFTER 15 MINUTES. LIGHTS SHALL BE DIMMED TO 10%. IF NO ADDITIONAL MOTION IS DETECTED AFTER 2 HOURS, LIGHTS SHALL POWER OFF.  
**GANG RESTROOMS**  
 A. PROVIDE ON/OFF CONTROL STATIONS AS SHOWN ON PLANS.  
 B. LIGHT FIXTURES SHALL BE CONTROLLED VIA LIGHTING CONTROL RELAY PANEL 'LCP'. REFERENCE 'LCP' SCHEDULE FOR ADDITIONAL INFORMATION AND REQUIREMENTS.  
**SINGLE ZONE ROOMS**  
 A. PROVIDE CONTROL STATIONS AS SHOWN ON PLANS.  
 B. ONE OVERALL ZONE TO CONTROL ALL LIGHTS IN ROOM.  
 C. PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR MINOR MOVEMENTS. MANUAL ON / AUTO OFF AFTER 20 MINUTES. SHOP DRAWING REQUIRED.  
 a. PROVIDE NLIGHT PLUG LOAD POWER PACK (#P20 PL) IN ACCESSIBLE LOCATION FOR EXHAUST FAN CONTROL IN SINGLE RESTROOMS.



**LIGHT SWITCHBANK DETAIL**  
 SCALE: NONE



**LIGHTING CONTACTOR DETAIL**  
 SCALE: NONE

## LIGHT FIXTURE SCHEDULE

**GENERAL NOTES:**  
 A. CONFIRM CEILING TYPE AND CONSTRUCTION PRIOR TO ORDERING LIGHT FIXTURE. PROVIDE FLANGE KIT FOR PROPER INSTALLATION OF LAY-IN FIXTURE IN GYPSUM CEILING. PROVIDE FIXTURE TYPE '12' IN LIEU OF FIXTURE TYPE 'A2' IN ROOMS WITH NO CEILING. CHAIN HANG AT 10' A.F.F.  
 B. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF WALL MOUNTED LIGHT FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.  
 C. REFER TO ARCHITECTURAL REFLECTIVE CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURE.  
 D. CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING LIGHT FIXTURES.  
 E. 'E' DESIGNATION ADJACENT TO LIGHTING FIXTURE TYPE INDICATES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY PACK UNIT. LIGHT FIXTURE SHALL BE SWITCHED, BATTERY PACK SHALL BE UNSWITCHED. BATTERY PACKS FOR EXTERIOR FIXTURES SHALL BE COLD WEATHER RATED.  
 F. 'N' DESIGNATION ADJACENT TO LIGHTING FIXTURE TYPE INDICATES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY PACK UNIT. LIGHT FIXTURE AND BATTERY PACK SHALL BE UNSWITCHED.  
 G. FIXTURES SHALL BE PROVIDED WITH A DIMMING DRIVER.  
 H. CONNECT ALL EXISTING LIGHTING TO THE NEAREST UNSWITCHED CIRCUIT OR THE NEAREST EMERGENCY CIRCUIT.  
 I. REFERENCE 'NLIGHT DEVICE SYMBOL SCHEDULE' AND 'NLIGHT INTERIOR LIGHTING SCHEDULE'.  
 J. ELECTRICAL CONTRACTOR SHALL CONFIRM ALL FIXTURE DRIVER VOLTAGE RATINGS MATCH THE PROJECT ELECTRICAL POWER SYSTEM VOLTAGE AND LIGHTING CIRCUIT VOLTAGE PRIOR TO SUBMITTAL.  
 (\*) PROVIDE UNIT PRICE FOR THIS FIXTURE. INCLUDE MATERIAL AND LABOR TO BE ADDED AT ANY TIME DURING THE PROJECT.

MARK	MANUFACTURER	CATALOG NUMBER	LUMENS	VOLTAGE	WATTS	DESCRIPTION
B3	LITHONIA	CPX 2x2 5000LM 80CRI 35K SWL 120 MINI ZT	5,069	120	40	LED PANEL 2 x 2 LAY-IN FIXTURE, WHITE FINISH, 1% DIMMING, GRID CLG.
G1	LITHONIA	WL2 18L 120V G21 LPR35	1,796	120	17.5	2" SURFACE MOUNT WRAP AROUND LED, MOUNT 6" ABOVE MIRROR, OR 8" ABOVE STAIRS DEPENDING ON APPLICATION. 1% DIMMING.
G2	LITHONIA	WL4 40L 120V G21 LPR35	4,124	120	39.5	4" SURFACE MOUNT WRAP AROUND LED, MOUNT 6" ABOVE MIRROR, OR 8" ABOVE STAIRS DEPENDING ON APPLICATION. 1% DIMMING.
H2	LITHONIA	CLX148 5000LM SEF FLD 120V G21 35K 80CRI WH	4,801	120	31.8	LED STRIP FIXTURE, AIRCRAFT CABLE OR SURFACE MOUNT DEPENDING ON APPLICATION. PROVIDE THXL BRACKET WHEN SURFACE MOUNTED. TYPICAL MOUNTING HEIGHT APPROX 8'-12". 1% DIMMING.
L2	LITHONIA	LBR6 NCH 20LM 35K AR LSS MVD 120V UGZ1	2,533	120	25	6" LED DOWNLIGHT, TRIM TO MATCH CANOPY OR SILVER. PROVIDE 'EL' BATTERY WHEN SPECIFIED. 1% DIMMING.
L2X	JUNO	WF8 5WWS 90CRI XX	1,000	120	13	6" LED DOWNLIGHT, TRIM TO MATCH CANOPY OR SILVER. PROVIDE 'EL' BATTERY WHEN SPECIFIED. 1% DIMMING.
L3	GOTHAM	ICD 35x45 6AR LD 30D 120 E21	4,500	120	44.2	6" LED DOWNLIGHT, TRIM TO MATCH CANOPY OR SILVER. PROVIDE 'EL' BATTERY WHEN SPECIFIED. 1% DIMMING.
L4	LITHONIA	LBR4WV NCH 20LM 35K AR LSS MVD 120V UGZ1	2,533	120	25	4" LED ROUND WALL WASH, TRIM TO MATCH CANOPY OR SILVER. PROVIDE 'EL' BATTERY WHEN SPECIFIED. 1% DIMMING.
L5	GOTHAM	ICD2 35K 20AR LD 30D 120 E21	2,000	120	20	2" LED DOWNLIGHT, TRIM TO MATCH CANOPY OR SILVER. PROVIDE 'EL' BATTERY WHEN SPECIFIED. 1% DIMMING.
N1	RELIGIOUS GIFT WAREHOUSE YRGC300R120 YRGC300G120	INCLUDED INCLUDED	4,500	120	2	LED CONFESSONAL LIGHTS, LED LAMPS INCLUDED, MOUNT RED AND GREEN LIGHTS SIDE BY SIDE. CONFIRM FINISH WITH ARCHITECT.
N2	MANNING LIGHTING	LPI-352-16-35-DO-CON-120-FX	20,167	120	180	NEW ENGLAND GOTHIC PENDANT, SOLID ALUMINUM LASER CUT PANELS WITH FABRICATED STEEL CORNER TRIM POSTS, THREE CHAINS TO SPRINGER WITH SINGLE CHAIN TO CEILING. 1-100% DIMMING DRIVERS COMPATIBLE WITH 0-10V.
N3	FINELITE	HP-2-1MM-D-4-1H-835-F-F-96L-G-120-SC-FC-1%4B-FE-SA	6,256	120	25	2" LINEAR LED INDIRECT/DIRECT WALL MOUNT, HIGH UPHORN DOWN, FLUSH LEN. 1% DIMMING, COORDINATE FINISH AND MOUNTING HEIGHT WITH ARCHITECT.
N4	ECOSENSE	L351 12 10 35 80 MTLT 120	1082FT	120	108FT	LINEAR COVE UPLIGHT FIXTURE FOR LIGHTING DOME INTERIOR, 3500K COLOR TEMPERATURE AND DIMMING DRIVER. CONFIRM MOUNTING LOCATION AND COLOR TEMPERATURE WITH ARCHITECT.
R1	VODE	707-Z1-SL-XX-XX-C-RPX-AE-2-A-2-30-35-A2-0	686FT	MVOLT	6.6	UNDER CABINET LED STRIP, CLIP MOUNTED, 1% DIMMING, SYSTEM LENGTH AND RAIL LENGTH AS REQUIRED PER PLANS. PROVIDE ALL CONNECTORS, CORDS, TRANSFORMERS ETC TO CONNECT QUANTITIES SHOWN ON PLANS.
R2	LUMINI	LL42-VHO-35K-XX-XX-KSC-F-SA	322FT	MVOLT	3.6FT	THIN LED TAPE LIGHT, PROVIDE ALL CONNECTORS, CORDS, TRANSFORMERS ETC TO CONNECT LENGTHS SHOWN ON PLANS. PROVIDE MOUNTING CHANNEL WITH PROTECTED LENS TO MATCH REQUIRED LENGTH.
S1	LITHONIA	RSX1-LED-P2-40K-R3-MVOLT-SPA-NLTAIR2-PIRHN-FINISH (pole) WILL BRANDS VS-SSSA-X-50-50-11-AB-PP-C-D1	9,843	240	72	POLE MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, WITH NLIGHTA2 FOR MOTION DIMMING TO 50% AND PHOTOCELL CONTROL. FINISH TO BE SELECTED BY ARCHITECT. POLE IS STRAIGHT STEEL, DRILLED FOR FIXTURE MOUNTING AND BASE COVER. FINISH TO MATCH FIXTURE. NEW FIXTURE POLE HEIGHT SHALL MATCH EXISTING POLE HEIGHTS AT THE SITE. FIELD VERIFY EXISTING CONDITIONS.
S2	LITHONIA	RSX1-LED-P2-40K-R3-MVOLT-SPA-NLTAIR2-PIRHN-FINISH (pole) WILL BRANDS VS-SSSA-X-50-50-11-AB-PP-C-D2	9,843	240	144	POLE MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, WITH NLIGHTA2 FOR MOTION DIMMING TO 50% AND PHOTOCELL CONTROL. FINISH TO BE SELECTED BY ARCHITECT. POLE IS STRAIGHT STEEL, DRILLED FOR FIXTURE MOUNTING AND BASE COVER. FINISH TO MATCH FIXTURE. NEW FIXTURE POLE HEIGHT SHALL MATCH EXISTING POLE HEIGHTS AT THE SITE. FIELD VERIFY EXISTING CONDITIONS.
S3	LITHONIA	RSX1-LED-P4-40K-R5-MVOLT-SPA-NLTAIR2-PIRHN-FINISH (pole) WILL BRANDS VS-SSSA-X-50-50-11-AB-PP-C-D1	16,796	240	133	POLE MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, WITH NLIGHTA2 FOR MOTION DIMMING TO 50% AND PHOTOCELL CONTROL. FINISH TO BE SELECTED BY ARCHITECT. POLE IS STRAIGHT STEEL, DRILLED FOR FIXTURE MOUNTING AND BASE COVER. FINISH TO MATCH FIXTURE. NEW FIXTURE POLE HEIGHT SHALL MATCH EXISTING POLE HEIGHTS AT THE SITE. FIELD VERIFY EXISTING CONDITIONS.
S4	SFU LIGHTING	SPJ51-20-XX-25W-WIDE FLOOD-3200-4000K-120V	3,200	120	32	4" LED BOLLARD, COORDINATE FINISH AND EXACT LOCATIONS AROUND SITE WITH ARCHITECT.
T1	LITHONIA	WGE2 LED P1 40K 70CRI R3 MVOLT NLTAIR2 PIR DBXD	7,524	120	62	ARCHITECTURAL WALL MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, WITH FULL CUT-OFF, HIGH EFFICIENCY DRIVER WITH NLIGHTA2 SENSORS FOR MOTION DIMMING TO 50% AND PHOTOCELL CONTROL, DARK BRONZE FINISH. APPROX. 12'-14" AFF. COORDINATE FINISH HEIGHT WITH ARCHITECTURAL. FIXTURE TO BE SECURELY MOUNTED TO A STRUCTURAL SURFACE.
T5	LITHONIA	WGE2 LED P35W 40K 80CRI W MVOLT NLTAIR2 PIR DBXD	3,213	120	23	ARCHITECTURAL WALL MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, WITH FULL CUT-OFF VISUAL COMFORT LENS, HIGH EFFICIENCY DRIVER WITH NLIGHTA2 SENSORS FOR MOTION DIMMING TO 50% AND PHOTOCELL CONTROL, DARK BRONZE FINISH. APPROX. 8'-10" AFF. COORDINATE FINAL HEIGHT WITH ARCHITECTURAL. FIXTURE TO BE SECURELY MOUNTED TO A STRUCTURAL SURFACE.
T6	KENALL	MR13FFD-PP-SI-20L40K-DV-LEL-SA	2,145	MVOLT	24	SURFACE MOUNTED ROUND LED FIXTURE WITH SURFACE ADAPTER, MARNE GRADE DIE CAST ALUMINUM, HIGH IMPACT POLYCARBONATE LENS, SILVER FINISH. PROVIDE EMERGENCY BATTERY WHERE SHOWN. PROVIDE (2) POSIGRIP SCREWDRIVERS.
V4	AMERLUX	SPEQ-MA17-26-WT-C-120-VNF-309-LETE-SN	2,516	120	21	SURFACE MOUNTED ADJUSTABLE SPOT LIGHT, 18 DEGREE BEAM, 3000K COLOR TEMPERATURE, 2000 LUMENS, AND DIMMING DRIVER.
X1	BEGHELLI	LC1-E-5A-RL-1-B-AL	N/A	120	1.1	LED SINGLE FACE EXIT SIGN WITH DIE CAST ALUMINUM HOUSING, EMERGENCY BATTERY PACK, BLACK FINISH.

## LIGHTING CONTROL RELAY PANEL 'LCP'

RELAY	CIRCUIT NUMBER	LOCATION	CONTROL	OVERRIDE
1	LP-59	NARTHEX 100 (L2), VESTIBULE 122 (B3)	TIMER ON / TIMER OFF	OR1
2	LP-59	NARTHEX 100 (N2, N4)	TIMER ON / TIMER OFF	OR1
3	LP-59	WOMEN 123, MEN 124 (B3)	TIMER ON / TIMER OFF	OR2
4	LP-61	NAVE 101 (N2)	TIMER ON / TIMER OFF	OR3
5	LP-63	NAVE 101 (N2)	TIMER ON / TIMER OFF	OR3
6	LP-63	SANCTUARY (V4)	TIMER ON / TIMER OFF	OR3
7	LP-63	SANCTUARY (N3)	TIMER ON / TIMER OFF	OR3
8	LP-65	NAVE 101 (V4)	TIMER ON / TIMER OFF	OR3
9	LP-65	NAVE 101 (L2), AMBRY (R2)	TIMER ON / TIMER OFF	OR3
10	LP-65	NAVE 101 (L4), STOR 114 (L4)	TIMER ON / TIMER OFF	OR3
11	LP-67	CHAPEL 106 (L5, L2)	TIMER ON / TIMER OFF	OR4
12	LP-69	CHAPEL 106 (L4)	TIMER ON / TIMER OFF	OR4
13	LP-69	CHAPEL 106 (N4)	TIMER ON / TIMER OFF	OR4
14	-	SPARE	-	-
15	-	SPARE	-	-
16	-	SPARE	-	-

**LIGHTING CONTROL PANEL NOTES**  
 1. PROVIDE ACTIVITY NLIGHT RELAY PANEL BARP INTENC16NLT 16FCR MVOLT 1VB SC SM DTC. PROVIDE WITH NEMA 1 ENCLOSURE AND ALL COMPONENTS, ACCESSORIES, AND CABLING AS REQUIRED FOR A COMPLETE INSTALLATION.  
 2. COORDINATE EXACT PROGRAMMING TIMES WITH OWNER.  
 3. PROVIDE OVERRIDE SWITCHES FOR LIGHTING CONTROL PANEL AS INDICATED ON SCHEDULE. COORDINATE EXACT OVERRIDE SWITCH LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.  
 4. PROVIDE TYPED RELAY SCHEDULE.  
 5. MAKE ALL CONTROL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS TO PROVIDE A COMPLETE SYSTEM.



DATE ISSUED: 07-02-2025  
 PROJECT NUMBER: 1024-0623  
 REFERENCE GENERAL NOTES ON SHEETS M1.1, P1.1, AND E1.1 FOR ADDITIONAL INFORMATION.  
 HCE MEMPHIS CONSULTANTS  
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 F-4095  
 HCE job no.: 24-037

**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
**DIocese of Victoria**  
 HOUSTON, TX  
 2025 RELEASED UNDER A.A. ASSOCIATES

PLAN NORTH TRUE NORTH  
 SHEET NAME: SCHEDULES - ELECTRICAL  
 SHEET NUMBER: E1.2

**PANELBOARD CONNECTION SCHEDULE ALTERNATE**

ESC-68A-240V

A. USE TABLE FOR WIRE AND CONDUIT SIZES FOR ALL PANELBOARDS UNLESS NOTED OTHERWISE.  
 B. WIRE SIZES BASED ON 86°F AMBIENT, 75°C COLUMN OF CHART, NEC 310.15(B)(16).  
 C. TABLE FOR 120/240/1PH/3W PANELBOARDS.  
 D. PROVIDE 200% NEUTRAL BUS BAR AND 200% NEUTRAL WIRE WHEN SPECIFIED.  
 E. WHEN USING ALUMINUM WIRES, LUGS MUST BE COPPER CLAD AND MUST USE PENETROX (OR EQUAL) OXIDE INHIBITOR FOR ALL CONNECTIONS.  
 F. WHERE PANEL IS LOCATED IN REMOTE BUILDING AND FED FROM REMOTE SERVICE, DO NOT INCLUDE GROUNDING CONDUCTOR AND GROUND BUILDING PER SERVICE ENTRANCE GROUNDING DETAIL.

PANEL SIZE OR MCB SIZE	COPPER			STABILOY ALUMINUM		
	WIRE SIZE	GROUND	CONDUIT	WIRE SIZE	GROUND	CONDUIT
100	1 SET 3 #3	#8	1-1/4"	1 SET 3 #10	#6	2"
125	1 SET 3 #1	#6	1-1/2"	1 SET 3 #20	#4	2"
150	1 SET 3 #1/0	#6	2"	1 SET 3 #30	#4	2 1/2"
175	1 SET 3 #2/0	#6	2"	1 SET 3 #40	#4	2 1/2"
200	1 SET 3 #3/0	#4	2 1/2"	1 SET 3 #250	#4	2 1/2"
225	1 SET 3 #4/0	#4	2 1/2"	1 SET 3 #500	#2	2-1/2"
400	2 SETS 3 #3/0 OR	#3	2" PER SET	2 SETS 3 #250	#10	3" PER SET
	1 SET 3 #600	#3	4"			
600	2 SETS 3 #350	#1	3" PER SET	2 SETS 3 #500 OR	#20	4" PER SET
				3 SETS 3 #250	#20	3" PER SET
800	2 SETS 3 #600	#1/0	4" PER SET	3 SETS 3 #600	#30	4" PER SET
1000	3 SETS 3 #500	#2/0	4" PER SET	4 SETS 3 #400	#40	4" PER SET
1200	3 SETS 3 #600	#3/0	4" PER SET	4 SETS 3 #600	#250	4" PER SET
1600	4 SETS 3 #600	#4/0	4" PER SET	5 SETS 3 #600	#350	4" PER SET
2000	5 SETS 3 #600	#250	4" PER SET	6 SETS 3 #600	#400	4" PER SET

**COORDINATION STUDY  
FAULT CURRENT ANALYSIS NOTES**

- A. GEAR MANUFACTURER SHALL PROVIDE THE COORDINATION STUDY / FAULT CURRENT ANALYSIS / ARC FLASH ANALYSIS AND SHALL DETERMINE ALL FINAL KA/IC/ARC FLASH RATINGS FOR ALL GEAR. THIS MUST BE SIGNED BY PROFESSIONAL ENGINEER WHO OVERSEES THE STUDY AT GEAR MANUFACTURER.
- B. ARC FLASH AND ARC FAULT LABELING AT SERVICE DISCONNECT AND ALL PANELS IS REQUIRED IN ORDER TO COMPLY WITH NEC 110.16 AND 110.24.
- C. FOR THESE LABELS TO BE ACCURATE THE FOLLOWING MUST BE USED:  
 - ACTUAL AVAILABLE FAULT CURRENT FROM ELECTRIC UTILITY COMPANY.  
 - ACTUAL WIRE SIZES AND LENGTHS TO BE INSTALLED PER ACTUAL FIELD ROUTING AS DETERMINED BY THE INSTALLING ELECTRICAL CONTRACTOR.
- D. AIC RATING OF UTILITY TRANSFORMER MAY NOT HAVE BEEN AVAILABLE FROM UTILITY COMPANY AT TIME OF DOCUMENT COMPLETION.
- E. ENGINEER HAS NO CONTROL OVER UTILITY COMPANY TRANSFORMER SELECTIONS. ENGINEER IS NOT RESPONSIBLE FOR SELECTION OF UTILITY TRANSFORMER OR RESULTING AVAILABLE FAULT CURRENT.
- F. AIC RATINGS FOR GEAR SHALL MEET OR EXCEED AIC RATINGS DETERMINED BY THE COORDINATION STUDY. THIS COMPLIES WITH NEC 110.9 AND 110.10.
- G. ENGINEER IS NOT RESPONSIBLE FOR ACTUAL LENGTHS AND ROUTING OF CONDUIT AND WIRE BEING INSTALLED FOR PROJECT. THIS IS MEANS AND METHODS OF ELECTRICAL CONTRACTOR. THIS INFORMATION IS NOT AVAILABLE TO ENGINEER AT TIME OF DOCUMENT COMPLETION. ELECTRICAL CONTRACTOR SHALL PROVIDE THIS INFORMATION TO GEAR MANUFACTURER FOR REQUIRED STUDY.
- H. INSTALLING ELECTRICAL CONTRACTOR SHALL CONTACT UTILITY COMPANY AND OBTAIN AND PROVIDE ACTUAL UTILITY FAULT CURRENT AND ACTUAL WIRE/CONDUIT SIZE AND LENGTHS TO GEAR MANUFACTURER FOR DESCRIBED STUDY.
- I. RESULTS OF STUDY SHALL BE PROVIDED TO CITY AS REQUESTED AND STUDY SHALL BE SUBMITTED WITH GEAR SUBMITTAL TO PROJECT ENGINEER.
- J. ELECTRICAL CONTRACTOR SHALL LABEL ALL GEAR WITH AVAILABLE FAULT CURRENT AS WELL AS OTHER LABELING REQUIREMENTS PER NEC AND AS LISTED IN SPECIFICATIONS.
- K. ALL ITEMS LISTED ABOVE WILL BE PROVIDED BY ELECTRICAL CONTRACTOR AND WILL BE IN A DEFERRED SUBMITTAL.

THE ELECTRICAL RISER DIAGRAM IS SHOWN SCHEMATICALLY IN NATURE TO INDICATE THE RELATIONSHIP OF THE ELECTRICAL SYSTEM COMPONENTS. IT DOES NOT REFLECT THE ACTUAL ROUTING OF CONDUITS. CONTRACTOR SHALL DETERMINE OVERHEAD OR UNDERGROUND CONDUIT ROUTING. CONDUIT SHALL NOT BE ROUTED EXPOSED ON EXTERIOR WALLS EXCEPT OUT OF THE BOTTOM OF THE PANEL TO RUN UNDER SLAB OR TO AN ADJACENT PANEL WITHIN 24". EXTERIOR EXPOSED CONDUIT SHALL BE MINIMIZED.

**GENERAL RISER DIAGRAM NOTES**

- A. WHEN THE LENGTH OF THE SECONDARY CONDUCTORS OF ANY TRANSFORMER EXCEEDS TEN FEET, PROVIDE AN ENCLOSED CIRCUIT BREAKER OR FUSED DISCONNECT WITHIN TEN FEET OF THE TRANSFORMER SECONDARY TERMINALS IN ACCORDANCE WITH NEC ARTICLE 240-21(C)(2). THIS OVERCURRENT DEVICE SHALL HAVE AN AMP RATING EQUAL TO THE AMP RATING OF THE PANEL BEING SERVED. THE PANEL BEING FED MAY BE CHANGED TO MAIN LUGS ONLY.
- B. PROVIDE LUG KITS AND/OR WIRING GUTTERS FOR PANELS WITH OVERSIZED CONDUCTORS DUE TO VOLTAGE DROP AND/OR DISTANCE. MAKE CONNECTIONS IN ACCORDANCE WITH THE NEC.
- C. PROVIDE SHOP DRAWINGS OF ALL ELECTRIC ROOMS INDICATING ALL PANEL, TRANSFORMER AND DISCONNECT LOCATIONS. ELECTRICAL EQUIPMENT MAY SHIFT IN LOCATION TO INSURE PROPER CLEARANCES.
- D. REFERENCE "DISCONNECT SCHEDULE" FOR ADDITIONAL DISCONNECT INFORMATION.
- E. SUB-FEED BREAKERS SHALL NEVER BE SMALLER THAN THE PANEL/MCB RATING OF THE PANEL BEING FED. CONTRACTOR TO VERIFY PRIOR TO SUBMITTAL AND CONTACT ENGINEER WITH ANY DISCREPANCIES.

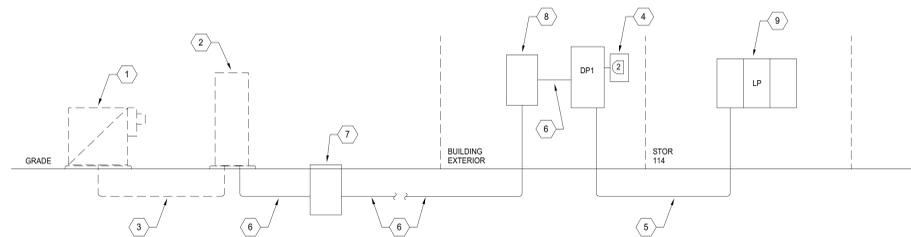
**RISER KEYED NOTES**

- 1 EXISTING UTILITY TRANSFORMER AND METER TO REMAIN. FIELD VERIFY EXISTING CONDITIONS.
- 2 EXISTING 120/240-VOLT, 3-PHASE, 4-WIRE, 1200-AMP DISTRIBUTION PANEL TO REMAIN. UTILIZE THE EXISTING 600-AMP, 3-POLE BREAKER THAT IS OFF AND LABEL "CHURCH" FOR SERVICE TO NEW DISTRIBUTION PANEL "DP1". FIELD VERIFY EXISTING CONDITIONS.
- 3 EXISTING UNDERGROUND FEEDERS AND CONDUIT TO REMAIN. FIELD VERIFY EXISTING CONDITIONS.
- 4 REFERENCE SURGE PROTECTION DEVICE SCHEDULE FOR ADDITIONAL INFORMATION.
- 5 REFERENCE PANELBOARD CONNECTION SCHEDULE FOR CONDUIT/WIRING SIZES AND QUANTITIES.
- 6 TWO (2) SETS OF 4 #350 KCM CU., #1 CU. GROUND. EACH SET IN A 3" CONDUIT.
- 7 TRAFFIC TYPE PULLBOX. REFERENCE E1.0 FOR ADDITIONAL INFORMATION.
- 8 SECONDARY PULLBOX ON BUILDING EXTERIOR FOR EXPANSIVE SOIL MOVEMENT. COIL CONDUCTORS INSIDE PULLBOX TO ALLOW FOR SOIL MOVEMENT.
- 9 REFERENCE PANELBOARD SCHEDULE FOR ADDITIONAL INFORMATION.

**SURGE PROTECTION DEVICE SCHEDULE**

- ESC-71
- STANDARDS:**
- A. PROVIDE TVSS SURGE SUPPRESSION PER LATEST UL. BASIS OF DESIGN, CURRENT TECHNOLOGIES. CONTACT SWMCO (512) 965-6784.
  - B. TVSS MUST BE ABLE TO BE SERVICEABLE WITHOUT SHUTTING PANEL OFF.
  - C. 3RD PARTY SINGLE IMPULSE SURGE CURRENT TEST MUST BE PROVIDED WITH SUBMITTAL VERIFYING PERFORMANCE MEETS SPECIFICATIONS.
  - D. WHERE FLUSH MOUNT PANELS ARE SPECIFIED, COORDINATE PANEL MANUFACTURER OPTION WITH ELECTRICAL CONTRACTOR.
  - E. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - F. VOLTAGE AND CONFIGURATION TO MATCH PANEL BEING SERVICED. REFERENCE RISER DIAGRAM AND PANEL SCHEDULES.
  - G. 20 YEAR WARRANTY STANDARD.
  - H. CABLE ENTRY TO BE COORDINATED WITH ELECTRICAL CONTRACTOR.
  - I. QUANTITIES PER RISER DIAGRAM.
  - J. PROVIDE NEMA 12/4' WHEN ROOF MOUNTED. REFERENCE PLANS AND RISER DIAGRAM.

MARK	TYPE	SURGE CURRENT RATING (KA PER MODE/KA PER PHASE)	ENCLOSURE	MONITOR	MOUNT	APPLICATION (WHERE SPECIFIED ON RISER)
1	SEI	60/100	STANDARD 12"	INTERLOCK	FLUSH	SERVICE ENTRANCE
2	SEI	100/100	STANDARD 12"	INTERLOCK	FLUSH	DISTRIBUTION PANELS
3	SEI	100/100	STANDARD 12"	INTERLOCK	FLUSH	BRANCH PANELS
4	SEI	100/100	STANDARD 12"	INTERLOCK	FLUSH	TECHNOLOGY PANELS
5	SEI	100/100	STANDARD 12"	INTERLOCK	FLUSH	DISTRIBUTION PANELS - FLUSH MOUNT
6	SEI	100/100	STANDARD 12"	INTERLOCK	FLUSH	BRANCH PANELS - FLUSH MOUNT



**01 ELECTRICAL RISER DIAGRAM**  
SCALE: NONE



REFERENCE GENERAL NOTES ON SHEETS M1.1, P1.1, AND E1.1 FOR ADDITIONAL INFORMATION



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F - 4095  
HCE job no.: 24-037

**CIRCUIT BREAKER PANELBOARD: LP**

**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**

LOCATION: JANSTOR 115 VOLTAGE: 120/240 V. 1 @ 3 W.  
 MOUNTING: SURFACE NEMA 1 A.I.C. RATING: REF. FAULT CURRENT STUDY NOTES ON RISER DIAGRAM SHEET  
 MAIN DEVICE: 400 A MAIN CB SPECIAL:  
 BUS AMPS: 400 AMPS

- NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)
- (a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE.
  - (b) REFERENCE TRANSFORMER SCHEDULE.
  - (c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE.
  - (d) PROVIDE WITH SHUNT TRIP BREAKER.
  - (e) PROVIDE WITH PERMANANTLY INSTALLED LOCKING DEVICE.
  - (f) PROVIDE WITH GFCCI BREAKER.
  - (g) REFERENCE ASSOCIATED PANEL SCHEDULE.
  - (h) PROVIDE 6" PANEL EXTENSION AND CTS.

CKT	Load Name	Wire/Conduit	BKR	P	A	C	P	BKR	Wire/Conduit	Load Name	CKT
1	RECEPTACLES	2 20 A	1	0.7	0.9			1 20 A	2	RECEPTACLES	2
3	RECEPTACLES	2 20 A	1		0.5	0.5		1 20 A	2	RECEPTACLES	4
5	RECEPTACLES	2 20 A	1	1.0	1.0			1 20 A	2	RECEPTACLES	6
7	RECEPTACLES	2 20 A	1		1.0	1.0		1 20 A	2	SOUND SYSTEM HEAD END	8
9	SOUND SYSTEM HEAD END	2 20 A	1	1.0	0.9			1 20 A	2	RECEPTACLES	10
11	RECEPTACLES	2 20 A	1		0.5	0.7		1 20 A	2	RECEPTACLES	12
13	RECEPTACLES	2 20 A	1	0.5	0.2			1 20 A	2	RECEPTACLES	14
15	RECEPTACLES	2 20 A	1		0.7	0.5		1 20 A	2	FLOORBOX	16
17	RECEPTACLES	2 20 A	1	0.9	0.5			1 20 A	2	FLOORBOX	18
19	FLOORBOX	2 20 A	1		0.5	0.5		1 20 A	2	FLOORBOX	20
21	PUMP	2 (f) 20 A	1	1.0	0.5			1 20 A	2	FLOORBOX	22
23	REFRIGERATOR	2 20 A	1		1.0	0.9		1 20 A	2	RECEPTACLES	24
25	RECEPTACLES	2 20 A	1	0.5	0.5			1 20 A	2	RECEPTACLES	26
27	RECEPTACLES	2 20 A	1		0.5	1.0		1 20 A	2 (f)	HEATER	28
29	RECEPTACLES	2 20 A	1	0.5	0.7			1 20 A	2	RECEPTACLES	30
31	RECEPTACLES	2 20 A	1		0.7	0.7		1 20 A	2	RECEPTACLES	32
33	EWV	2 (f) 20 A	1	1.0	0.9			1 20 A	2	RECEPTACLES	34
35	RECEPTACLES	2 20 A	1		0.9	1.1		1 20 A	2	RECEPTACLES	36
37	FUTURE HAND DRYER	2 (a) 20 A	1	1.5	0.4			1 20 A	2	RECEPTACLES	38
39	FUTURE HAND DRYER	2 (a) 20 A	1		1.5	0.7		1 20 A	2	RECEPTACLES	40
41	RECEPTACLES	2 20 A	1	0.5	0.5			1 20 A	2	RECEPTACLES	42
43	RECEPTACLES	2 20 A	1		0.5	0.4		1 20 A	2	RECEPTACLES	44
45	RECEPTACLES	2 20 A	1	0.5	0.4			1 20 A	2	RECEPTACLES	46
47	RECEPTACLES	2 20 A	1		0.5	0.4		1 20 A	2	EF-1-8	48
49	RECEPTACLES	2 20 A	1	0.5	0.6			1 20 A	2	EF-4-6-7	50
51	RECEPTACLES	2 20 A	1		0.5	0.4		1 20 A	2	EF-2-3	52
53	EXTERIOR LIGHTING	2 20 A	1	0.3	3.3			2 40 A	19	WH-1	54
55	EXTERIOR LIGHTING	2 20 A	1		0.1	3.3		2 40 A	19	WH-2	56
57	EXTERIOR LIGHTING	2 20 A	1		0.1	3.3		2 40 A	19	WH-2	58
59	LCP-1-2-3	2 20 A	1		1.1	3.3		1 20 A	2	LIGHTING	60
61	LCP-4	2 20 A	1	1.4	0.7			1 20 A	2	LIGHTING	62
63	LCP-5-6-7	2 20 A	1		0.9	0.7		1 20 A	2	LIGHTING	64
65	LCP-8-9-10	2 20 A	1	1.0	1.5			1 20 A	2	HAND DRYER	66
67	LCP-11	2 20 A	1		0.9	1.5		1 20 A	2	HAND DRYER	68
69	LCP-12-13	2 20 A	1	0.6	0.7			1 20 A	2	RECEPTACLES	70
71	EXTERIOR LIGHTING	9 20 A	1		0.7	1.0		1 20 A	9	SINGING TOWER SUPREME	72
73	EXTERIOR ENTRY J-BOXES	9 20 A	1	1.0	1.0			1 20 A	9	TOWER BELL ENCLOSURE	74
75	RECEPTACLES	9 20 A	1		0.2	1.0		1 20 A	9	AMPLIFIER	76
77	RECEPTACLES	2 20 A	1	0.5	0.2			1 20 A	2	HWRP-1	78
79	FACP	2 20 A	1		0.5	0.2		1 20 A	2	HWRP-2	80
81	SPARE	-- 20 A	1	0.0	0.0			1 20 A	--	SPARE	82
83	SPARE	-- 20 A	1		0.0	0.0		1 20 A	--	SPARE	84
85	SPARE	-- 20 A	1	0.0	0.0			1 20 A	--	SPARE	86
87	SPARE	-- 20 A	1		0.0	0.0		1 20 A	--	SPARE	88
89	SPARE	-- 20 A	1	0.0	0.0			1 20 A	--	SPARE	90
91	SPARE	-- 20 A	1		0.0	0.0		1 20 A	--	SPARE	92
93	SPARE	-- 20 A	1	0.0	0.0			1 20 A	--	SPARE	94
95	SPARE	-- 20 A	1		0.0	0.0		1 20 A	--	SPARE	96
97	SPARE	-- 20 A	1	0.0	0.0			1 20 A	--	SPARE	98
99	SPARE	-- 20 A	1		0.0	0.0		1 20 A	--	SPARE	100
101	SPARE	-- 20 A	1	0.0	0.0			1 20 A	--	SPARE	102
103	SPARE	-- 20 A	1		0.0	0.0		1 20 A	--	SPARE	104
105	SPARE	-- 20 A	1	0.0	0.0			1 20 A	--	SPARE	106
107	SPARE	-- 20 A	1		0.0	0.0		1 20 A	--	SPARE	108
109	SPARE	-- 20 A	1	0.0	0.0			1 20 A	--	SPARE	110
111	SPARE	-- 20 A	1		0.0	0.0		1 20 A	--	SPARE	112
113	SPARE	-- 20 A	1	0.0	0.0			1 20 A	--	SPARE	114
115	SPACE	-- --	1		--	--		1 --	--	SPACE	116
117	SPACE	-- --	1		--	--		1 --	--	SPACE	118
119	SPACE	-- --	1		--	--		1 --	--	SPACE	120
121	SPACE	-- --	1		--	--		1 --	--	SPACE	122
123	SPACE	-- --	1		--	--		1 --	--	SPACE	124
125	SPACE	-- --	1		--	--		1 --	--	SPACE	126

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS
HVAC	0.0 kVA	0.00%	0.0 kVA	
RCPT	35.8 kVA	63.98%	22.9 kVA	CONNECTED LOAD: 66.7 kVA
LITES	8.5 kVA	125.00%	10.6 kVA	ESTIMATED DEMAND: 56.0 kVA
SPEC	22.6 kVA	100.00%	22.6 kVA	
				EST. DEMAND CURRENT: 233.1 A

NOTES:

**CIRCUIT BREAKER PANELBOARD: DP1**

**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**

LOCATION: JANSTOR 115 VOLTAGE: 240/120 High Leg V. 3 @ 4 W.  
 MOUNTING: SURFACE NEMA 3R A.I.C. RATING: REF. FAULT CURRENT STUDY NOTES ON RISER DIAGRAM SHEET  
 MAIN DEVICE: 600.0 A MCB SPECIAL:  
 BUS AMPS: 600 AMPS

- NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)
- (a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE.
  - (b) REFERENCE TRANSFORMER SCHEDULE.
  - (c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE.
  - (d) PROVIDE WITH SHUNT TRIP BREAKER.
  - (e) PROVIDE WITH PERMANANTLY INSTALLED LOCKING DEVICE.
  - (f) PROVIDE WITH GFCCI BREAKER.
  - (g) REFERENCE ASSOCIATED PANEL SCHEDULE.
  - (h) PROVIDE 6" PANEL EXTENSION AND CTS.

CKT	Load Name	Wire/Conduit	BKR	P	A	B	C	P	BKR	Wire/Conduit	Load Name	CKT
1												2
3	RTU-6	21 40 A	3		3.9	0.0		3	60 A	--	SPD	4
5												6
7												8
9	RTU-1	35 70 A	3		9.3	6.8		3	50 A	28	RTU-4	10
11												12
13												14
15	RTU-2	35 70 A	3		9.3	6.8		3	50 A	28	RTU-5	16
17												18
19												20
21	RTU-3	21 40 A	3		3.9	0.0		3	40 A	--	SPARE	22
23												24
25	SEPTIC SYSTEM PUMP	19 30 A	2		1.4	0.0		3	70 A	--	SPARE	26
27												28
29	PANEL LP	(g) 400 A	2				33.4	0.0				30
31												32
33	SPACE	-- --	1		--	--		3	100 A	--	SPARE	34
35	SPACE	-- --	1		--	--						36

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS
HVAC	119.8 kVA	100.00%	119.8 kVA	
RCPT	35.8 kVA	63.98%	22.9 kVA	CONNECTED LOAD: 189.2 kVA
LITES	8.5 kVA	125.00%	10.6 kVA	ESTIMATED DEMAND: 178.5 kVA
SPEC	25.5 kVA	100.00%	25.5 kVA	
				EST. DEMAND CURRENT: 429.4 A

NOTES:



REFERENCE GENERAL NOTES ON SHEETS M1.1, P1.1, AND E1.1 FOR ADDITIONAL INFORMATION

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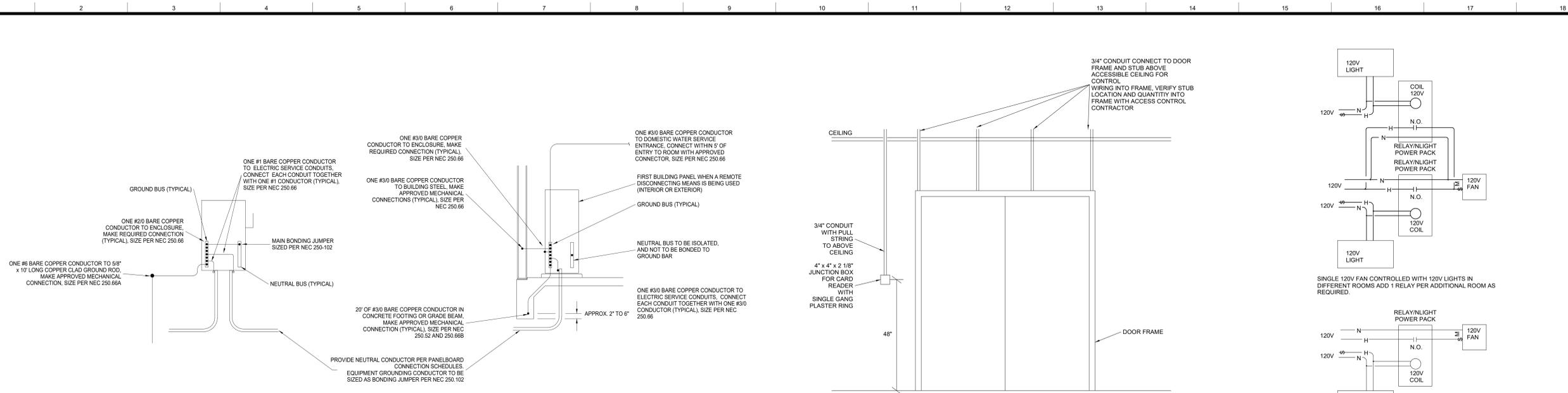


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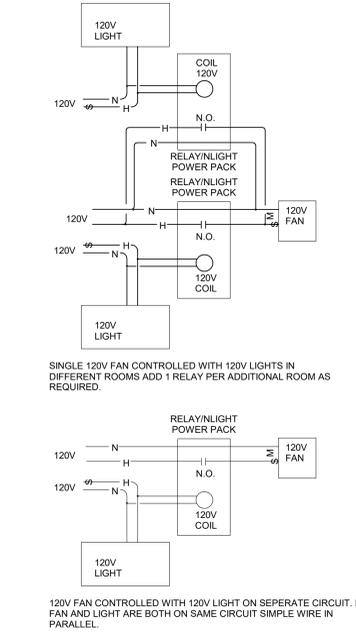
SHEET NAME  
**PANEL SCHEDULES - ELECTRICAL**

SHEET NUMBER  
**E1.4**

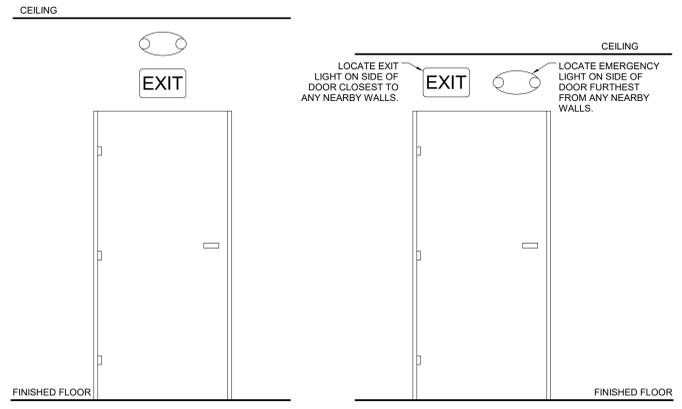


**REMOTE SERVICE DISCONNECT - ELECTRIC GROUNDING DETAIL**  
NO SCALE (CONDUCTOR SIZES SHOWN MAY BE ADJUSTED PER NEC FOR THE ACTUAL IMPACT OF SERVICE) EDE-53A

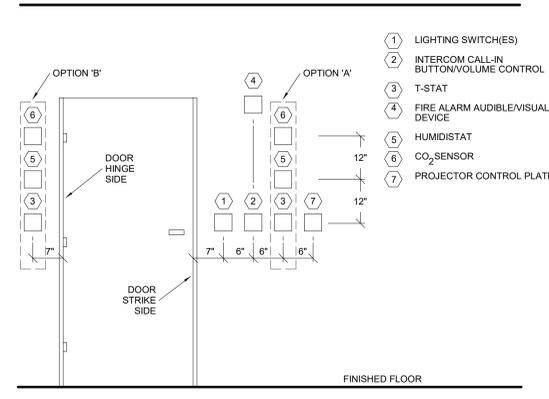
**CARD SWIPE DETAIL TYPICAL**  
SCALE: NONE EDE-95



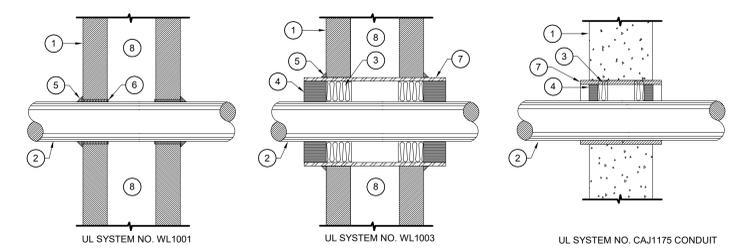
**EXHAUST FAN/HEATER CONTROL**  
SCALE: NONE EDE-90



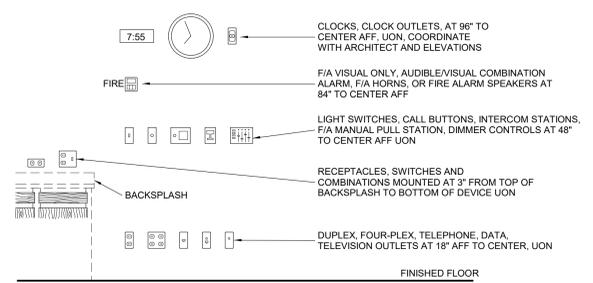
**TYPICAL EXIT AND EMERGENCY FIXTURE LOCATIONS AT DOORS**  
NO SCALE EDE-97



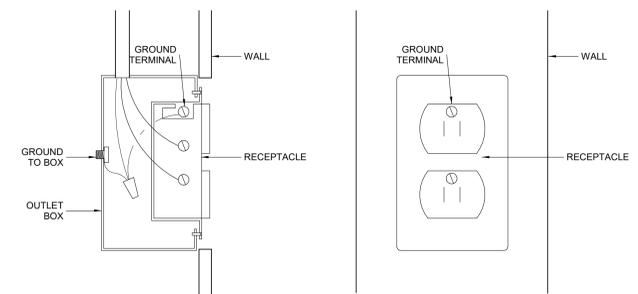
**TYPICAL DEVICE OUTLET LOCATIONS ADJACENT TO DOORS**  
NO SCALE EDE-91



**TYPICAL CONDUIT PENETRATION**  
NO SCALE (FIRE RATED GYPSUM/STUD WALL ASSEMBLY AND CONCRETE WALL/FLOOR ASSEMBLY) EDE-96



**MOUNTING HEIGHT DETAIL**  
NO SCALE EDE-10



**RECEPTACLE GROUNDING DETAIL**  
NO SCALE EDE-57

REFERENCE GENERAL NOTES ON SHEETS M1, P1, AND E1.1 FOR ADDITIONAL INFORMATION

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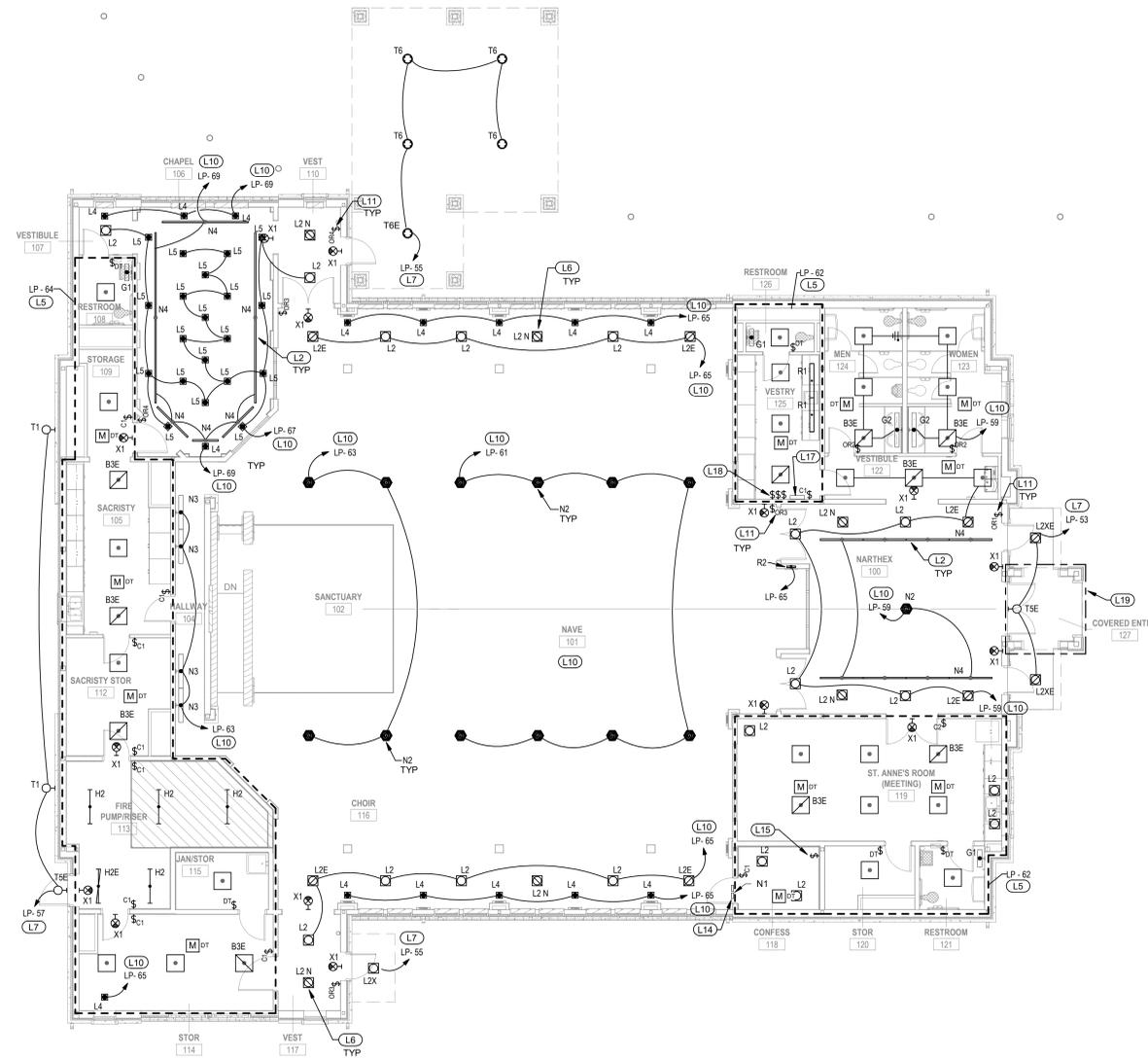
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**LIGHTING KEY NOTES**

THESE NOTES APPLY TO THIS SHEET ONLY

- L2 COORDINATE LIGHTS WITH ARCHITECTURAL CEILING TREATMENT.
- L5 ALL LIGHTS SHOWN WITHIN DASHED LINE SHALL BE CIRCUITED TO BRANCH CIRCUIT INDICATED.
- L6 LIGHT FIXTURES INDICATED AS NIGHT LIGHTS 'N' SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT AND SHALL BE NON-SWITCHED. PROVIDE FIXTURE WITH 90-MINUTE BATTERY UNIT FOR EMERGENCY EGRESS LIGHTING.
- L7 ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR FOR EXTERIOR LIGHTING CONTROL. REFERENCE LIGHTING CONTROL DETAILS.
- L10 LIGHT FIXTURES INDICATED SHALL BE CONTROLLED BY LIGHTING CONTROL PANEL. REFERENCE LIGHTING CONTROL RELAY PANEL SCHEDULE FOR ADDITIONAL REQUIREMENTS.
- L11 LIGHTING CONTROL PANEL OVERRIDE SWITCH. REFERENCE LIGHTING CONTROL RELAY PANEL SCHEDULE ON SHEET E1.2 FOR ADDITIONAL REQUIREMENTS.
- L14 CONFESSONAL LIGHTS MOUNTED ABOVE CONFESSONAL DOOR. GREEN LIGHT ON WHEN NOT OCCUPIED AND RED LIGHT ON WHEN OCCUPIED. BOTH LIGHTS ARE MOUNTED SIDE BY SIDE. CONFIRM FINISH WITH ARCHITECT.
- L15 PROVIDE A MAINTAINED CONTACT, CENTER OFF, 3 POSITION SWITCH, HUBBELL MODEL #HBL138W OR EQUAL. WIRE SWITCH WHERE THE UP POSITION CONTROLS THE GREEN CONFESSONAL LIGHT AND THE DOWN POSITION CONTROLS THE RED CONFESSONAL LIGHT. CENTER POSITION WILL BE BOTH LIGHTS OFF. FIELD COORDINATE EXACT LOCATION OF SWITCH WITH OWNER PRIOR TO ROUGH-IN.
- L17 LIGHTING CONTROL PANEL. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION. REFERENCE LIGHTING CONTROL RELAY PANEL SCHEDULE ON SHEET E1.2 FOR ADDITIONAL REQUIREMENTS.
- L18 LIGHT SWITCH BANK LOCATED ADJACENT TO LIGHTING CONTROL PANEL. REFERENCE LIGHT SWITCH-BANK DETAIL ON SHEET E1.2 FOR ADDITIONAL REQUIREMENTS.
- L19 REFERENCE CLEARSTORY AND TOWER LIGHTING PLANS, E2.2, FOR ADDITIONAL LIGHTING INFORMATION AND REQUIREMENTS FOR THE TOWER WINDOW AND BELFRY.

ALL LIGHT FIXTURES ARE TYPE 'B3' UNLESS NOTED OTHERWISE.



**01 FIRST FLOOR PLAN - LIGHTING**  
 SCALE: 1/8" = 1'-0"



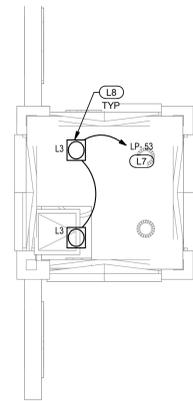
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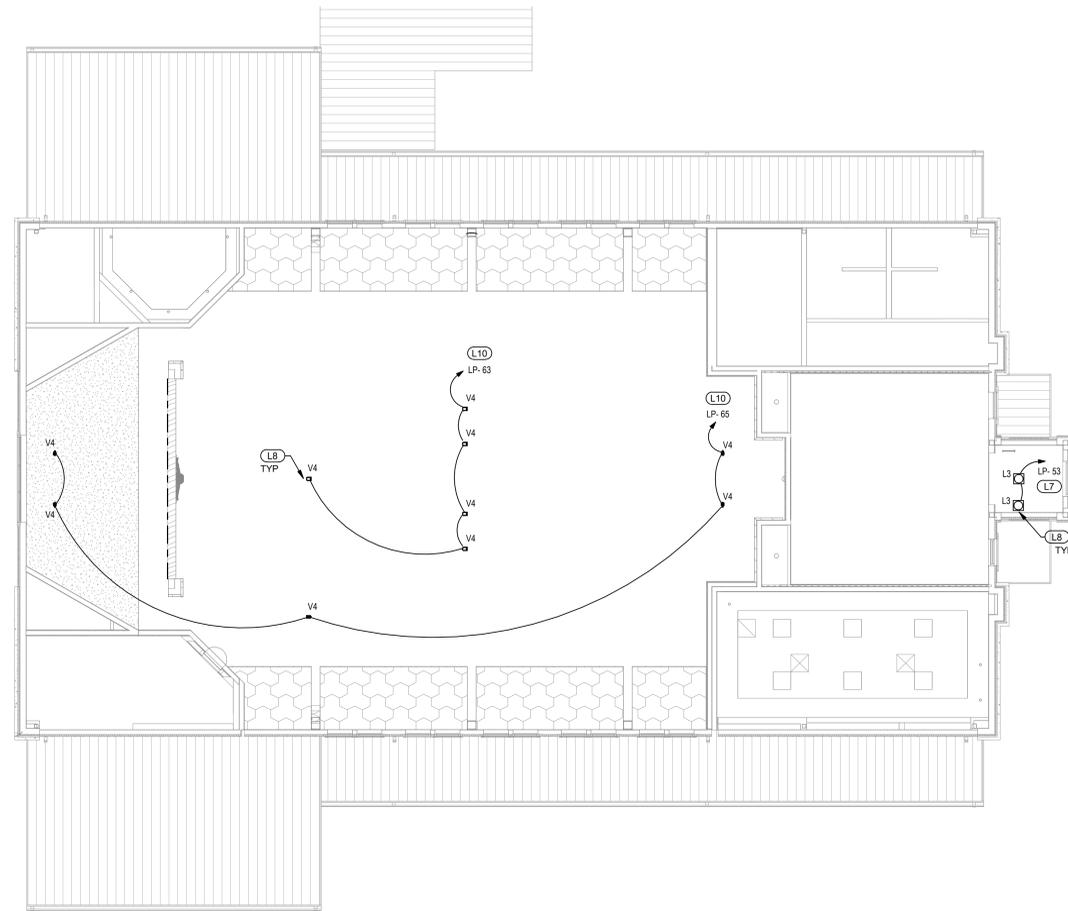
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LIGHTING KEY NOTES	
THESE NOTES APPLY TO THIS SHEET ONLY	
L7	ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR FOR EXTERIOR LIGHTING CONTROL. REFERENCE LIGHTING CONTROL DETAILS.
L8	COORDINATE EXACT LOCATION AND ELEVATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
L10	LIGHT FIXTURES INDICATED SHALL BE CONTROLLED BY LIGHTING CONTROL PANEL. REFERENCE LIGHTING CONTROL RELAY PANEL SCHEDULE FOR ADDITIONAL REQUIREMENTS.



**02 TOWER PLAN - LIGHTING**  
 SCALE: 1/4" = 1'-0"



**01 CLERESTORY PLAN - LIGHTING**  
 SCALE: 1/8" = 1'-0"



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REFERENCE MECHANICAL FAN SCHEDULE FOR EXHAUST FAN SWITCHING REQUIREMENTS.

**POWER KEY NOTES**

THESE NOTES APPLY TO THIS SHEET ONLY

- E1 COORDINATE FINAL RECEPTACLE LOCATIONS WITH MILLWORK PRIOR TO ROUGH-IN. REVIEW FINAL ARCHITECTURAL INTERIOR ELEVATIONS FOR FINAL LAYOUTS OF EQUIPMENT TO BE POWERED.
- E2 JUNCTION BOX LOCATED ABOVE CEILING ADJACENT TO NEAREST ACCESS PANEL OR ACCESSIBLE CEILING LOCATION FOR FUTURE HAND DRYER. COORDINATE FINAL CONNECTION REQUIREMENTS WITH ACTUAL UNIT PROVIDED. PROVIDE A LOCKING MECHANISM ON ALL BREAKERS SERVING HAND DRYERS PER NEC 422.31.
- E4 FLOOR DEVICES. VERIFY EXACT LOCATION OF ALL FLOOR DEVICES WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E5 ELECTRICAL PANELS. DO NOT RUN ANY PIPING OR DUCTWORK OVER ELECTRIC PANELS.
- E6 COORDINATE DISCONNECT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN. REFERENCE DISCONNECT SCHEDULE FOR ADDITIONAL REQUIREMENTS FOR ALL DISCONNECT SWITCHES.
- E7 FIELD COORDINATE PLACEMENT OF DISCONNECTING MEANS FOR WATER HEATERS AND RE-CIRCULATING PUMP.
- E8 POWER FOR PUMP AND HEATER IN BAPTISMAL. VERIFY EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT. PROVIDE POWER AS REQUIRED.
- E9 WASH FOUNTAIN / EWC POWER. RECEPTACLE FOR POWER BEHIND WASH FOUNTAIN OR EWC TO HAVE GFCI BREAKER AT PANEL. COORDINATE FINAL ROUGH-IN LOCATION.
- E10 CONVENIENCE RECEPTACLE MOUNTED ON WALL AT STANDARD RECEPTACLE HEIGHT. PROJECTOR/TV RECEPTACLE MOUNTED HIGH IN WALL. COORDINATE PROJECTOR/TV RECEPTACLE LOCATION WITH TECHNOLOGY PLANS PRIOR TO ROUGH-IN.
- E11 PROVIDE TWO(2) 2" CONDUITS WITH PULL-STRING FROM STOR 114 TO THE MECHANICAL YARD. COORDINATE EXACT STUB-UP LOCATION IN THE MECHANICAL YARD AND STOR 114 WITH THE ARCHITECT AND OWNER PRIOR TO INSTALLATION. CAP THE TWO(2) 2" CONDUITS AND PROVIDE THE EXACT LOCATION OF CONDUITS ON RECORD DRAWINGS. DIMENSION CONDUIT STUBS FOR A FIXED OBJECT AND INCLUDE CONDUIT DEPTH.
- E12 JUNCTION BOX LOCATED ABOVE CEILING LOCATED AT EXTERIOR ENTRY FOR FUTURE EQUIPMENT. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E13 SINGING TOWER SUPREME, TOWER BELL PANEL ENCLOSURE, AND TOWER BELL AMPLIFIER. PROVIDE 120-VOLT, 20-AMP CIRCUITS INDICATED FOR CONNECTION TO EQUIPMENT. PROVIDE 120-VOLT, 20-AMP FUSED DISCONNECT FOR CONNECTION TO TOWER BELL ENCLOSURE. COORDINATE EXACT LOCATION OF EQUIPMENT WITH OWNER, ARCHITECT, AND ACTUAL EQUIPMENT PROVIDED PRIOR TO INSTALLATION. REFERENCE TOWER BELL SHOP DRAWINGS FOR ALL LOW VOLTAGE CABLING REQUIREMENTS BY ELECTRICAL CONTRACTOR BETWEEN SINGING TOWER SUPREME, TOWER BELL PANEL ENCLOSURE, STRIKERS, AND EXTERNAL SPEAKERS.
- E14 JUNCTION BOX LOCATED IN TOWER FOR CONNECTION TO EXTERIOR SPEAKERS. COORDINATE EXACT LOCATION OF EQUIPMENT WITH OWNER, ARCHITECT, AND ACTUAL EQUIPMENT PROVIDED PRIOR TO INSTALLATION. REFERENCE TOWER BELL SHOP DRAWINGS FOR ALL LOW VOLTAGE CABLING REQUIREMENTS BY ELECTRICAL CONTRACTOR.
- E15 PULL BOX AND JUNCTION BOXES LOCATED IN TOWER FOR CONNECTION TO STRIKERS. COORDINATE EXACT LOCATION OF EQUIPMENT WITH OWNER, ARCHITECT, AND ACTUAL EQUIPMENT PROVIDED PRIOR TO INSTALLATION. REFERENCE TOWER BELL SHOP DRAWINGS FOR ALL LOW VOLTAGE CABLING REQUIREMENTS BY ELECTRICAL CONTRACTOR.
- E16 POWER AND FUSED DISCONNECT FOR CONNECTION TO SEPTIC SYSTEM PUMP. COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH ARCHITECT, OWNER, CIVIL ENGINEER, AND ACTUAL EQUIPMENT PROVIDED. 240-VOLT, 1-PHASE, 2HP PUMP ASSUMED FOR BASIS OF DESIGN.
- E17 FLOOR MOUNTED RECEPTABLES AND DATA OUTLET. MINIMUM 1" CONDUIT FOR DATA. CONDUITS FOR POWER AS REQUIRED. REFERENCE TECHNOLOGY SHEET FOR ADDITIONAL INFORMATION.
- E18 REFERENCE TOWER POWER PLAN, DETAIL 02E3.1, FOR ADDITIONAL POWER INFORMATION AND REQUIREMENTS FOR THE Belfry.

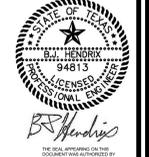


Final Plans for Bidding and Construction

**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
**DIocese of Victoria**  
 HOUSTON, TX  
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DATE ISSUED:  
**07-02-2025**

PROJECT NUMBER:  
1024-0623



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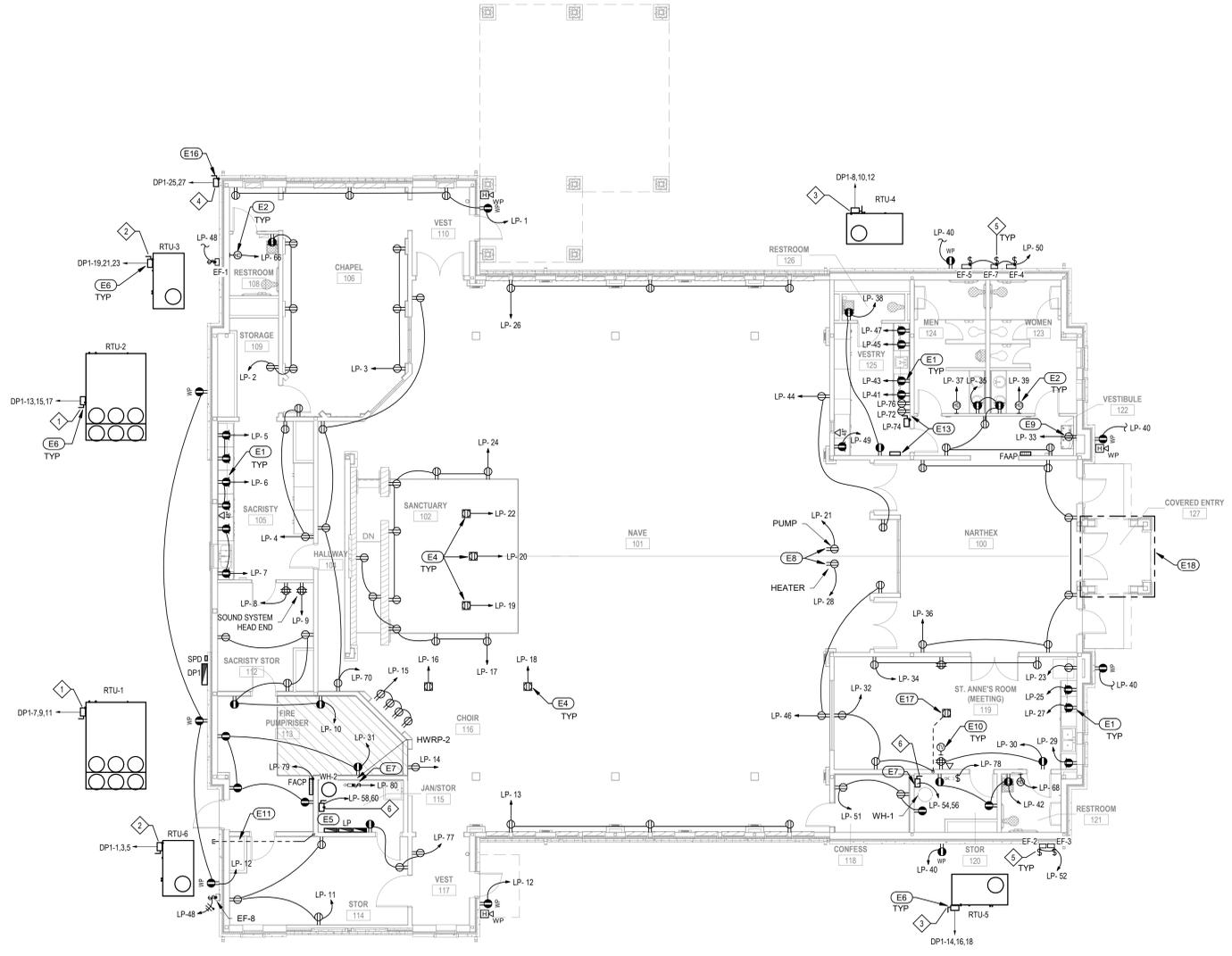
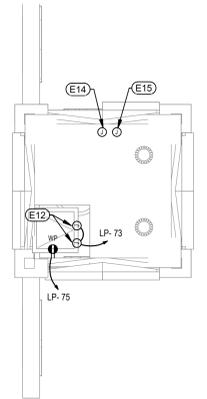
PLAN NORTH TRUE NORTH

SHEET NAME  
**FIRST FLOOR PLAN - POWER**

SHEET NUMBER  
**E3.1**

**02 TOWER PLAN - POWER**  
SCALE: 1/4" = 1'-0"

**01 FIRST FLOOR PLAN - POWER**  
SCALE: 1/8" = 1'-0"



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## EXPANSIVE SOIL PLUMBING NOTES

**FLEXIBLE PIPING CONNECTION BASIS OF DESIGN:** EBAA IRON INC; FLEX-TEND, EXTEND, PVC, DUCTILE IRON AS SPECIFIED AND INDICATED ON PLANS.

### GENERAL NOTES:

- PIPING ISOLATION FROM SOIL IS REQUIRED IN ALL LOCATIONS THAT SLAB IS REQUIRED TO BE ISOLATED FROM SOIL. STRUCTURED SLABS WITH CRAWL SPACE, PIPING SUSPENDED FROM SLAB. STRUCTURED SLABS WITH VOID FORMS, PIPING ISOLATED FROM SOIL THROUGH ENGINEERED SYSTEM. EXAMPLE: MUDSKIPPER.
- ALL INSTALLATION REQUIREMENTS MUST PER LATEST MANUFACTURER DETAILS, SPECIFICATIONS, INSTALLATION INSTRUCTIONS.
- LOCATIONS: ALL PIPES AT ALL LOCATIONS THAT TRANSITION BETWEEN ISOLATION FROM SOIL TO DIRECT BURY ARE REQUIRED TO HAVE "FLEX PIPING FITTING CONNECTION" INSTALLED. SOME LOCATIONS ARE SPECIFICALLY IDENTIFIED AS EXAMPLES, BUT CONTRACTOR IS REQUIRED TO PROVIDE "FLEX PIPING FITTING CONNECTION" AT ALL LOCATIONS WHERE PIPE SYSTEM TRANSITIONS FROM ISOLATED FROM SOIL TO DIRECT BURY, ALSO INCLUDING BUT NOT LIMITED TO CIVIL CONNECTIONS. REFERENCE NOTES AND DETAILS FOR ADDITIONAL INFORMATION.
- CONTRACTOR MUST REFERENCE STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- THESE NOTES COMPLIMENT SPECIFICATIONS AND DETAILS PROVIDED. REFERENCE SPECIFICATIONS.
- PLUMBING CONTRACTOR REQUIRED TO PROVIDE ALL FLOW LINES NEEDED TO COORDINATE WITH CIVIL CONNECTIONS AND PIPING SUPPORT SYSTEM WHEN PRESENT. PLUMBING CONTRACTOR MAY SUGGEST ADJUSTMENTS TO PIPING LAYOUT IF DESIRED TO MAKE INSTALLATION MORE EFFICIENT FOR CONTRACTOR. THIS IS NOT FOR ASKING FOR A CHANGE ORDER, THIS IS FOR FLEXIBILITY TO SIMPLIFY CONTRACTOR INSTALLATION WITH NO CHANGE IN PRICE.

**PIPING VAULTS:** PIPING VAULTS ARE REQUIRED WHERE FLEXIBLE PIPING CONNECTIONS ARE MADE. REFERENCE STRUCTURAL DETAILS AND PIPING ISOLATION SYSTEM MANUFACTURER DETAILS, WHEN PRESENT, FOR CONCRETE VAULTS. GENERALLY GREASE TRAPS, ACID NEUTRALIZATION TANKS, SAND OIL SEPARATORS ETC., ARE LOCATED OUTSIDE VAULTS DUE TO AVOID INSTALLATION COMPLEXITY.

### DETAILS REFERENCE (INCLUDING BUT NOT LIMITED TOO)

- CW BUILDING ENTRY DETAIL - FOR EXPANSIVE SOILS
- STRUCTURAL DETAILS ON STRUCTURAL ENGINEERS PLANS.
  - TYPICAL COLD WATER CONNECTION DETAIL
  - TYPICAL WASTE WATER CONNECTION DETAIL
  - TYPICAL FIRE LINE CONNECTION DETAIL
  - TYPICAL STORM SEWER CONNECTION DETAIL
- FLEXIBLE CONNECTION MANUFACTURER (EBAA IRON INC.) - PRODUCT SPECIFIC INSTALLATION DETAILS AND INSTRUCTIONS.
- PIPING ISOLATION SYSTEM MANUFACTURER SPECIFIC INSTALLATION DETAILS. (IE: MUDSKIPPER)

### WASTE WATER/SANITARY SEWER PIPING

- PROVIDE DOUBLE BALL FLEXIBLE EXPANSION JOINT EQUAL TO "EBAA IRON INC" PVC FLEX-TEND
- PROVIDE "EBAA IRON INC" RESTRAINED FITTINGS ON EACH SIDE OF EXPANSION JOINT AND INSTALL ALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. RIGIDLY SECURE PIPE TO CONCRETE BEAM WITH A MINIMUM OF TWO PIPE CLAMPS SECURED TO UNISTRUT PRIOR TO EXPANSION JOINT. REFERENCE STRUCTURAL DETAIL ON STRUCTURAL DETAIL SHEETS FOR ADDITIONAL INFORMATION.
- PLUMBING CONTRACTOR TO CLOSELY COORDINATE CONCRETE BEAM LOCATION AND ELEVATION. INSTALL 6" OF SODIUM BENTONITE CLAY PLUG THAT EXTENDS A MINIMUM OF 6" PAST THE EDGES OF THE SOIL RETAINERS.
- PIPING EXTENDING THRU THE SOIL RETAINER TO BE "MUDSKIPPER TAIL" COMPRISED OF 4" C900 PIPING ENCASED IN 12" PVC FILLED WITH CONCRETE.

### STORM SEWER PIPING (RAIN LEADERS)

- PROVIDE DOUBLE BALL FLEXIBLE EXPANSION JOINT EQUAL TO "EBAA IRON INC" PVC FLEX TEND.
- INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PIPING UPSTREAM OF EXPANSION JOINT TO BE RIGIDLY SECURED TO STRUCTURE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

### COLD WATER PIPING

- PROVIDE "EBAA IRON INC" EX-TEND FORCE BALANCED EXPANSION AND CONTRACTION JOINT.
- REFERENCE CW BUILDING ENTRY DETAIL ON PLUMBING DETAIL SHEET(S).
- SECURE PIPING UPSTREAM OF FLEXIBLE JOINT WITH TWO RISER CLAMPS RIGIDLY ATTACHED TO TOP AND BOTTOM OF STRUCTURAL FRAME.
- REFERENCE "TYPICAL DOMESTIC, FIRE AND ROOF DRAIN EX-TEND PIPE SUPPORT DETAIL" ON STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.
- PROVIDE BUILDING SHUT-OFF ABOVE FRAME.
- FIELD VERIFY EXACT LOCATION AND INVERT.

### FIRE LINE WATER PIPING

- PROVIDE "EBAA IRON INC" EX-TEND FORCE BALANCED EXPANSION AND CONTRACTION JOINT.
- SECURE PIPING UPSTREAM OF FLEXIBLE JOINT WITH TWO RISER CLAMPS ATTACHED TO TOP AND BOTTOM OF STRUCTURAL FRAME.
- REFERENCE "TYPICAL DOMESTIC, FIRE AND ROOF DRAIN EX-TEND PIPE SUPPORT DETAIL" ON STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.
- PROVIDE THRUST BLOCKING AT BASE OF RISER.
- FIELD VERIFY EXACT LOCATION AND INVERT.

## PLUMBING GENERAL NOTES

- EXISTING CONDITIONS:** THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS AS THEY EXIST. SUBMISSION OF BID INDICATES THE CONTRACTOR'S UNDERSTANDING OF EXISTING CONDITIONS AND HIS WILLINGNESS TO WORK WITH THESE CONDITIONS. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF COORDINATION WITH EXISTING CONDITIONS OR OTHER TRADES.
- REVIEW ALL DRAWINGS:** CONTRACTORS TO REVIEW AND COMPARE ALL DRAWINGS SO ALL WORK IN THEIR RESPECTIVE TRADE IS INCLUDED IN BID. EACH CONTRACTOR SHALL INCLUDE ALL MATERIALS AND INSTALLATION REQUIRED FOR HIS PARTICULAR TRADE AFTER COMPLETE REVIEW OF ALL CONTRACT DRAWINGS AND SPECIFICATIONS.
- CODES:** ALL WORK SHALL COMPLY WITH THE APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY ASME, ASHRAE, NFPA, APPLICABLE BUILDING CODE, APPLICABLE MECHANICAL CODE, APPLICABLE PLUMBING CODE, APPLICABLE ENERGY CODE, NATIONAL ELECTRICAL CODE, ADA, ADA AND OSHA, AS THEY APPLY TO THIS PROJECT EXCEPT IN CASES WHERE LOCAL STATUTES GOVERN.
- CODES/AL:** THE CONTRACTOR SHALL VERIFY WITH AUTHORITY HAVING JURISDICTION THE LATEST ADOPTED LOCAL CODES, ORDINANCES AND AMENDMENTS THAT APPLY TO THIS PROJECT. PROVIDE CODE APPROVED CONDENSATE DISPOSAL POINT FOR ALL MECHANICAL EQUIPMENT TO DRAIN TO. COORDINATE WITH MECHANICAL CONTRACTOR.
- ELECTRIC/TECHNOLOGY ROOMS:** ABSOLUTELY NO PIPING OR DUCTWORK CAN BE ROUTED ABOVE ELECTRICAL PANELS, GEAR OR TRANSFORMERS. THE ONLY HVAC PLUMBING, SPRINKLER OR DUCTWORK THAT CAN ENTER AN ELECTRIC/TECHNOLOGY ROOM ARE THOSE SPECIFICALLY SERVING THAT ROOM. THESE SERVICES CAN ONLY ENTER INTO ELECTRIC/TECHNOLOGY ROOM ABOVE ENTRY DOOR.
- VALVE TAGS:** PROVIDE VALVE TAGS FOR ALL VALVES. PROVIDE CEILING ACCESS MARKERS FOR VALVES LOCATED ABOVE CEILING OR BEHIND WALL MOUNTED PANEL.
- VALVE ACCESS:** ALL VALVES ARE TO BE ACCESSIBLE AND SHALL NOT BE LOCATED MORE THAN FOUR FEET ABOVE THE CEILING.
- BLOCKING ACCESS:** PLUMBING PIPING SHALL NOT BLOCK ACCESS TO EQUIPMENT, JUNCTION BOXES, DISCONNECTS, ACCESS DOORS, ETC.
- BLOCKING FUTURE ACCESS:** DO NOT ROUTE PIPING UNDER EQUIPMENT LOCATED ABOVE CEILING. ROUTE PIPING AROUND EQUIPMENT TO ALLOW FOR ACCESS AROUND EQUIPMENT AND FOR FUTURE REMOVAL OF EQUIPMENT.
- FIXTURE CONNECTION:** CONTRACTOR TO CONNECT COLD WATER, HOT/TEMPERED WATER, WASTE WATER AND VENT PIPING TO ALL FIXTURES PER MANUFACTURER'S RECOMMENDATIONS, UNLESS OTHERWISE NOTED ON DRAWINGS.
- TRENCHING:** BEFORE ANY CUTTING OR TRENCHING OPERATIONS BEGIN, VERIFY WITH OWNER'S REPRESENTATIVE, UTILITY COMPANIES AND OTHER INTERESTED PARTIES THAT ALL AVAILABLE INFORMATION HAS BEEN PROVIDED CONCERNING EXISTING UTILITY LOCATION, VERIFY LOCATIONS GIVEN. CONTACT ARCHITECT IMMEDIATELY UPON UNCOVERING UNKNOWN UTILITIES FOR FURTHER DIRECTION. INDICATE ALL UNCOVERED UTILITIES ON RECORD DRAWINGS.
- FIRE SEAL AROUND ALL PIPING AT PENETRATIONS THROUGH RATED WALLS, CEILINGS AND TUNNELS PER UL LISTED MATERIAL FOR ACTUAL SEALANT BEING USED. COORDINATE WITH ARCHITECTURAL PLANS FOR RATED WALL LOCATION.
- TOOLS:** PROVIDE ALL APPROPRIATE TOOLS, WRENCHES, KEYS, ETC. AS REQUIRED FOR ACCESS AND OPERATION OF VALVES, COVERS, ETC.
- GAS WATER HEATERS:** PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROVIDING FLUES AND COMBUSTION AIR PIPING TO EXTERIOR FOR GAS FIRED WATER HEATERS/BOILERS PROVIDED BY PLUMBER.
- WATER HEATER TRAPS:** PROVIDE HEAT TRAPS ON INCOMING AND DISCHARGE LINES FROM WATER HEATERS WHICH DO NOT HAVE THEM FACTORY INSTALLED OR ARE NOT CONNECTED TO A RECIRCULATING SYSTEM.
- WATER HAMMER ARRESTORS:** PROVIDE WATER HAMMER ARRESTORS WITH ACCESSIBLE ISOLATION VALVE ON COLD WATER AND HOT WATER SUPPLIES TO ALL PLUMBING FIXTURES. PROVIDE ACCESS DOOR FOR ALL CONCEALED ARRESTORS. WATER HAMMER ARRESTERS SHALL BE CERTIFIED BY THE PLUMBING AND DRAINAGE INSTITUTE (PDI) STANDARD WH-201. ARRESTORS ARE TO BE INSTALLED IN LOCATIONS AND SIZED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THE LATEST EDITION OF THE WATER HAMMER ARRESTERS STANDARD PDI WH 201. WHEN A BRANCH EXCEEDS 20' IN LENGTH THEN AN ADDITIONAL ARRESTOR IS REQUIRED. CONTRACTOR TO PROVIDE A PLAN SHOWING WATER HAMMERS LOCATIONS, SIZE AND FIXTURE UNIT COUNT ON EACH BRANCH LINE.

## PIPE SIZING REQUIREMENTS

- FLOOR DRAIN TRAP PRIMER:** ALL FLOOR DRAINS AND FLOOR SINKS MUST HAVE TRAP PRIMERS. PROVIDE INVERTED TEE CONNECTION FROM SINK TALLPIPE OR FLUSH VALVE TYPE TRAP PRIMER CONNECTION TO ALL FLOOR DRAINS, FLOOR SINKS AND HUB DRAINS. AS LAST RESORT PROVIDE MECHANICAL TYPE TRAP PRIMER (PPP INC. "OREGON #1" TYPE). CONNECT TO NEAREST WATER SERVING THAT AREA PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. IN JURISDICTIONS WHERE PRESSURE ACTIVATED MECHANICAL PRIMERS ARE NOT ALLOWED, USE ELECTRONIC TRAP PRIMERS. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR. PROSET "TRAP GUARD" DEVICE MAY BE USED IN LIEU OF TRAP PRIMERS WHEN ALLOWED BY LOCAL CODE AUTHORITY HAVING JURISDICTION. BEFORE USING PROSET "TRAP GUARD" CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM LOCAL CODE AUTHORITY HAVING JURISDICTION AND PROVIDE COPIES TO ARCHITECT AND ENGINEER. VENT, ALL FDS AND HD REQUIRE VENTS PER SCHEDULE.
- HOT WATER WALL CHASE:** AT ALL PUBLIC LAVATORIES A HOT WATER MANIFOLD WILL BE ROUTED PARALLEL TO HOT WATER RECIRC MAIN DOWN FULL SIZE INTO ONE SIDE OF CHASE AND WILL BE CONNECTED BACK TO HOT WATER RECIRC MAIN OUT OF OPPOSITE SIDE OF CHASE TO COMPLY WITH INTERNATIONAL ENERGY CODE (IECC) MAXIMUM ALLOWABLE HOT WATER PIPING LENGTH FROM MANIFOLD. (TAP SIZE: FOR 3/8" PIPING MAXIMUM LENGTH = 3 FEET; FOR 1/2" MAXIMUM LENGTH = 2 FEET). FOR ACCESSIBLE CHASES PIPING MUST BE ROUTED ALONG WALL, NOT DOWN THE CENTER TO PROVIDE MAXIMUM MAINTENANCE ACCESS. FULL SIZE SHUT OFF VALVE REQUIRED FOR HW PIPE TO ISOLATE CHASE. FULL SIZE BALANCE VALVE REQUIRED ON HW RECIRC LINE LEAVING WALL OR CHASE.
- COLD WATER WALL CHASE:** PIPING SIZE FOR WATER MAIN DROPS AND MANIFOLD IN CHASE OR WALL TO REMAIN FULL SIZE OF DROP INDICATED FOR ENTIRE LENGTH OF CHASE. FOR ACCESSIBLE CHASE, MAIN IS TO TEE INTO 2 FULL SIZE MAINS RUN DOWN EACH WALL SURFACE TO MAINTAIN MAXIMUM SERVICE CLEARANCE. REFERENCE FIXTURE CONNECTION SCHEDULE FOR INDIVIDUAL LINE SIZE TO EACH FIXTURE. FULL SIZE SHUT OFF VALVE REQUIRED TO ISOLATE CHASE. WHEN CHASE IS ACCESSIBLE PROVIDE VALVE TO ISOLATE MAINS ON EACH SIDE OF CHASE. LOCATE IN CHASE ACCESSIBLE FROM FLOOR.
- WASTE WATER/SANITARY SEWER:** COORDINATE ALL WASTE WATER/SANITARY SEWER FLOOR PENETRATIONS AND PIPING PENETRATIONS WITH STRUCTURAL PRIOR TO INSTALLATION. PIPING MAY BE OFFSET SLIGHTLY TO AVOID STRUCTURAL CONFLICTS. PROVIDE CONNECTIONS TO ALL FIXTURES PER SCHEDULE. PROVIDE CLEANOUTS AT MINIMUM PER IPC 708, AND AS SHOWN ON PLANS AND EVERY 50 FEET OF WASTE LINE.
- VENT:** ROUTE VENT FROM EACH FIXTURE TO HORIZONTAL VENT HEADER IN CHASE/WALL OR TO NEAREST COMMON VTR ABOVE CEILING. REFERENCE FIXTURE CONNECTION SCHEDULE FOR INDIVIDUAL FIXTURE VENT SIZES. VENT HEADERS IN CHASE TO BE SIZED ACCORDINGLY: 1 1/2" VENT UP TO 6 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 60 FEET (EXCEPT FOR WATER CLOSETS); 2" VENT UP TO 20 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 120 FEET; 3" VENT UP TO 84 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 212 FEET AND 4" VENT UP TO 256 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 300 FEET. BRANCH VENTS EXCEEDING 40 FEET IN DEVELOPED LENGTH ARE TO BE INCREASED BY ONE PIPE SIZE. NO MORE THAN 1/3 OF THE CODE PERMITTED DEVELOPED LENGTH SHALL BE IN HORIZONTAL POSITION. EXTEND COMMON VENT UP THROUGH ROOF.
- VENT:** ROUTE ALL VENTS TO NEAREST COMMON VENT THRU ROOF (VTR) TO MINIMIZE ROOF PENETRATIONS. VTR TO BE MINIMUM 15 FEET AWAY FROM ALL OUTSIDE AIR INTAKES. COORDINATE WITH MECHANICAL CONTRACTOR FOR INSTALLATION.
- DIAGRAMMATIC DRAWINGS:** DISTRIBUTION AND MAIN PIPING IS SHOWN AT OR NEAR ALL PLUMBING FIXTURES. FINAL CONNECTIONS TO EACH FIXTURE FOR CW, HW, WW, VENT, VALVES ARE TO BE PROVIDED PER NOTES, SCHEDULES, AND TYPICAL DETAILS PROVIDED. FINAL CONNECTIONS AND INDIVIDUAL FIXTURE SHUT-OFF VALVES ARE NOT SPECIFICALLY DRAWN AT EACH LOCATION, BUT ARE REQUIRED AS DESCRIBED HERE.

## FIXTURE CONNECTION SCHEDULE

MARK	CW	HW	WASTE	DRAIN FIXTURE UNITS	VENT	
WATER CLOSET (FLUSH VALVE)	1"	-	4"	6	2"	
WATER CLOSET (TANK TYPE)	1/2"	-	4"	4	2"	
URINAL	3/4"	-	2"	2	2"	
PUBLIC LAVATORY	3/8"	3/8"	2"	1	1 1/2"	4
SINK	1/2"	1/2"	2"	2	1 1/2"	
SERVICE SINK	3/4"	3/4"	3"	2	2"	
WASH FOUNTAIN	1/2"	1/2"	2"	2	1 1/2"	
EWC	1/2"	-	2"	1	1 1/2"	
WASHING MACHINE	3/4"	3/4"	2"	2	2"	
HOSE BIBB	3/4"	-	-	-	-	
SHOWER	1/2"	1/2"	3"	2	1 1/2"	
FLOOR DRAIN	-	-	3"	2	2"	
FLOOR SINK	-	-	4"	2	2"	
GREASE TRAP	-	-	SEE PLANS	--	2" MIN	
COMMERCIAL WASHER	1" (3)	1" (3)	4" (IN PIT)	--	2" MIN	1, 3
KITCHEN	SEE PLANS (2)	SEE PLANS (2)	SEE PLANS	SEE PLANS (2)	SEE PLANS (2)	1, 2, 3
EMERGENCY SHOWER	1-1/2"	-	4"	--	2" MIN	

- HOT AND COLD WATER REQUIRED UNLESS NOTED OTHERWISE ON PLUMBING FIXTURE SCHEDULE. PROVIDE TEMPERATURE MIXING VALVE (ASSE 1070) AT THE FIXTURE.
- IF HORIZONTAL VENT LENGTH EXCEEDS 20 FEET, INCREASE VENT SIZE TO TWO INCHES.
- COMMERCIAL KITCHEN SINKS GET HOT WATER, REMAINDER TO BE PROVIDED WITH TEMPERATURE MIXING VALVE (ASSE 1070) AT THE FIXTURE.
- SHOWER VALVES TO BE BALANCED-PRESSURE, THERMOSTATIC OR COMBINATION BALANCED-PRESSURE/THERMOSTATIC CONFORMING TO ASSE 1016.
- REFERENCE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FINAL CONNECTION REQUIREMENTS AND SIZES.
- KITCHEN EQUIPMENT. REFERENCE KITCHEN CONSULTANT DRAWINGS FOR FINAL CONNECTION REQUIREMENTS AND SIZE. IF THERE IS A CONFLICT NOTIFY ENGINEER PRIOR TO INSTALLATION OF ANY PIPING.
- CONNECTION SIZE SHOWN IS MINIMUM. IF EQUIPMENT CONNECTION SIZE IS LARGER, PROVIDE LARGER.
- PROVIDE 1/2" HOT WATER RETURN FROM EACH PUBLIC LAV OR GROUP OF LAV, WITH CIRCUIT SOLVER THERMOSTATIC MIXING VALVE AND BALL VALVE FOR ISOLATION. PROVIDE AT DISTANCE REQUIRED BY ENERGY CODE AND LOCAL AHJ.

**VALVES:** FULL SIZE OF PIPE VALVES REQUIRED AS FOLLOWS. INDIVIDUAL FIXTURE AND CHASE VALVES MAY NOT BE SPECIFICALLY DRAWN, BUT ARE REQUIRED AS NOTED. ADDITIONAL DISTRIBUTION ISOLATION VALVES ARE INDICATED ON PLUMBING PLANS. INDIVIDUAL FIXTURE: SHUT-OFF VALVES, ABOVE CEILING, ARE REQUIRED AT EACH INDIVIDUAL FIXTURE FOR HOT WATER AND COLD WATER. GANG RESTROOMS: FOR GANG RESTROOMS WITH CHASES PROVIDE THE FOLLOWING: INDIVIDUAL FIXTURE VALVE ISOLATION NOT REQUIRED INSIDE CHASE. UNLESS SPECIFICALLY NOTED. INACCESSIBLE CHASE: PROVIDE SHUT-OFF VALVE FOR COLD WATER AND HOT WATER AND PROVIDE BALANCING VALVE FOR HOT WATER RECIRC LINE FEEDING CHASE. LOCATE IN HALLWAY ABOVE CEILING. ACCESSIBLE CHASE: PROVIDE SHUT-OFF VALVE FOR COLD WATER AND HOT WATER AND PROVIDE BALANCING VALVE FOR HOT WATER RECIRC LINE FEEDING CHASE. LOCATE INSIDE CHASE IN ACCESSIBLE LOCATION NOT REQUIRING A LADDER.

## M/P ABBREVIATION SCHEDULE

AD	ACCESS DOOR	MAINT	MAINTENANCE
ABV	ABOVE	MAU	MAKEUP AIR UNIT
AFB	ABOVE FINISHED FLOOR	MAX	MAXIMUM
ARCH	ARCHITECT	MC	MECHANICAL CONTRACTOR
AUTO	AUTOMATIC	MBH	1000 BTU PER HOUR
AUX	AUXILIARY	MEH	MECHANICAL
AHU	AIR HANDLING UNIT	MH	MANHOLE
BD	BALANCE DAMPER	MIN	MINIMUM
BF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLDG	BUILDING	MOD	MOTOR OPERATED DAMPER
BSD	BOTTOM OF DUCT	NIC	NOT IN CONTRACT
BOP	BOTTOM OF PIPE	N.O.	NORMALLY OPEN
BF	BOOSTER FAN	N.C.	NORMALLY CLOSED
CLG	CEILING	NO	NUMBER
CLR	CLEAR/CLEARANCE	NTS	NOT TO SCALE
CO	CLEANOUT	O/A	OUTDOOR AIR
COL	COLUMN	OSD	OPPOSED BLADE DAMPER
CONC	CONCRETE	OC	ON CENTER(S)
CONTR	CONTRACTOR	OPN	OPENING
CW	COLD WATER	ORL	OVERFLOW RAINLEADER
CONN	CONNECTION	OAH	OUTSIDE AIR HOOD
CU	COPPER	PC	PLUMBING CONTRACTOR
CHS	CHILLED WATER SUPPLY	PH	PHASE
CHR	CHILLED WATER RETURN	PLBG	PLUMBING
DN	DIAMETER	R/A	PLUMBING
DOWN	DOWN	R/B	RETURN AIR
DWG	DRAWING	RE:	REFERENCE/REFER TO
DH	DUCT HEATER	REFRIG	REFRIGERANT
E/A	EXHAUST AIR	REFRIG	REFRIGERATOR
EC	ELECTRICAL CONTRACTOR	RECD	REQUIRED
EF	EXHAUST FAN	RHP	RADIANT HEAT PANEL
ELEC	ELECTRIC/ELECTRICAL	RL	RAINLEADER
EQ	EQUAL	RM	ROOM
EQUIP	EQUIPMENT	RTU	ROOFTOP UNIT
EXIST	EXISTING	S/A	SUPPLY AIR
EXH	EXHAUST	SCH	SCHEDULE
E.S.P.	EXTERNAL STATIC PRESSURE	SP	STATIC PRESSURE
ERV	ENERGY RECOVERY VENTILATOR	SPEC	SPECIFICATION
FCO	FLOOR CLEAN OUT	SD	STORM DRAIN
FCU	FAN COIL UNIT	SF	SUPPLY FAN
FF	FINISHED FLOOR	UG	UNDERGROUND
FLEX	FLEXIBLE	UH	UNIT HEATER
FLR	FLOOR/FLOORING	UP	UP
GA	GAUGE	V	VENT (PLUMBING)
GC	GENERAL CONTRACTOR	V	VOLTAGE (ELECTRICAL)
GEN	GENERAL	VTR	VENT THROUGH ROOF
GYP	GYP/SUM BOARD	W	WITH
HP	HEAT PUMP	W/O	WITHOUT
Hp	HORSEPOWER	WP	WATERPROOF
HT	HEIGHT	WT	WEIGHT
HW	HOT WATER	WTR	WATER
HWC	HOT WATER CIRC	WW	WASTE WATER
HR	HOUR	WV	WALL CLEANOUT
HWR	HEATING WATER RETURN	WH	WATER HEATER
HWS	HEATING WATER SUPPLY	WO	WATER HEATER
LOC	LOCATION		

## PLUMBING LEGEND

SYMBOL	ABB.	DESCRIPTION
—	CW	COLD WATER PIPING
—	HW	HOT WATER PIPING
—	HWR	HOT WATER RETURN PIPING
—	WW	WASTE WATER
—		VENT PIPING
— T —		TEMPERED WATER
— G —		GAS PIPING
— F —		FIRE LINE
— GT —		GREASE TRAP LINE
— A —		COMPRESSED AIR PIPING
— D —		RELIEF OR CONDENSATE DRAIN PIPING
— SD —	SD	STORM DRAIN
— RL —	RL	RAIN LEADER
— ORL —	ORL	OVERFLOW RAIN LEADER
— H —		FULL PORT BALL PIPE ISOLATION VALVE
— HB —	HB	HOSE BIBB/WALL HYDRANT
— U —		UNION
— FD/FS —	FD/FS	FLOOR DRAIN/FLOOR SINK
— HD —	HD	HUB DRAIN
— CO —	CO	CLEAN OUT
— DO —		DOUBLE CLEAN OUT
— WCO —	WCO	WALL CLEAN OUT
— G —		GAS COCK
— B —		BALANCE VALVE
— C —		CHECK VALVE
— P —		POINT OF CONNECTION
— R —		GAS PRESSURE REGULATOR



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REFERENCE GENERAL NOTES ON SHEETS M1, P1, AND E1.1 FOR ADDITIONAL INFORMATION.

MEMPHENY CONSULTANTS



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P1.1

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### PLUMBING FIXTURE SCHEDULE

**NOTES:**

- PROVIDE WASTE, COLD WATER, HOT WATER, AND VENT PIPING TO ALL PLUMBING FIXTURES AS DESCRIBED IN PLUMBING FIXTURE CONNECTION SCHEDULE.
- REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL WALL HUNG FIXTURES TO BE INSTALLED WITH WALL CARRIERS, VERIFY CONFIGURATION TYPE.
- PROVIDE VANDAL RESISTANT SCREWS AT ALL FIXTURES.
- INSTALL STAINLESS STEEL CAPS AT ALL UNUSED LAVATORY FAUCET HOLES.
- NO OFFSET FLANGES WILL BE ALLOWED FOR WATER CLOSET INSTALLATIONS.
- GROUT FOR LEVELING WATER CLOSETS SHALL NOT EXTEND UP ON SIDE OF WATER CLOSET BASES. TAKE GROUT BACK TO MINIMUM 1/8" UNDER BASE AND CAULK FOR FINAL FINISH. VERIFY CAULK COLOR AND TYPE WITH ARCHITECT.
- REFERENCE ARCHITECTURAL CONTRACT DOCUMENTS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES. CONTACT ARCHITECT FOR ADDITIONAL INFORMATION AS REQUIRED.
- PROVIDE INVERTED TEE CONNECTION FROM SINK TAILPIECE OR FLUSH VALVE TYPE TRAP PRIMER CONNECTION TO ALL FLOOR DRAINS, FLOOR SINKS AND HUB DRAINS. AS LAST RESORT PROVIDE ELECTRONIC TYPE TRAP PRIMER (SIOUX CHIEF MODEL 695-ES01 FOR UP TO 8 FLOOR DRAINS WITH CORRECT ACCESSORIES). PROVIDE FLUSH MOUNTING BOX WITH KEYS/SS COVER. CONNECT TO NEAREST UNSWITCHED 120 VOLT POWER AND PROVIDE DISCONNECTING MEANS. CONNECT TO NEAREST WATER SERVING THAT AREA PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- ALL PLUMBING FIXTURES TO BE "LEAD FREE" AS 1993 COMPLIANT (25% OR LESS AVERAGE LEAD CONTENT). PROVIDE DOCUMENTATION IN SUBMITTALS THAT THIS REQUIREMENT IS MET FOR EACH APPLICABLE FIXTURE.
- PROVIDE WATER HAMMER ARRESTORS AT ALL PLUMBING FIXTURES. PROVIDE SIZE RECOMMENDED BY MANUFACTURER AND INSTALL IN LOCATIONS AS DIRECTED BY MANUFACTURER.

**WC**

WATER CLOSET: AMERICAN STANDARD FLOWISE MODEL 2234.001, FLOOR MOUNTED, VITREOUS CHINA, 1 1/2" TOP SPUD, 15" HIGH ELONGATED BOWL.  
EXPOSED FLUSH VALVE: SLOAN ROYAL #111 WITH EBV-500-A SIDE MOUNT BATTERY PACK AUTO FLUSH, 1.28 GALLON FLUSH, TRUE MECHANICAL OVERRIDE (TMO). SAVE MANUAL FLUSH HANDLE AND GIVE TO OWNER.  
SEAT: BEMIS 1955C OR EQUIVALENT. STAINLESS STEEL HARDWARE ONLY (NO PLASTIC ALLOWED).

**WCH**

WATER CLOSET (ADULT ADA): AMERICAN STANDARD FLOWISE MODEL 3461.001 WITH EVERCLEAN, FLOOR MOUNTED, VITREOUS CHINA, 1-1/2" TOP SPUD, 16-1/2" HIGH ELONGATED BOWL.  
EXPOSED FLUSH VALVE: SLOAN ROYAL #111 WITH EBV-500-A SIDE MOUNT BATTERY PACK AUTO FLUSH, 1.28 GALLON FLUSH. SAVE MANUAL FLUSH HANDLE AND GIVE TO OWNER.  
SEAT: BEMIS 1955C OR EQUIVALENT. STAINLESS STEEL HARDWARE ONLY (NO PLASTIC ALLOWED).

**URH**

URINAL (ADA): SLOAN MODEL SU-1009-A UNIVERSAL HIGH EFFICIENCY, VITREOUS CHINA, 3/4" TOP SPUD.  
EXPOSED FLUSH VALVE: SLOAN ROYAL #186-0.125 WITH EBV-500-A SIDE MOUNT BATTERY PACK AUTO FLUSH, 0.125 GALLON FLUSH. SAVE MANUAL FLUSH HANDLE AND GIVE TO OWNER. REFERENCE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.

**LH (WALL HUNG-ADULT)**

LAVATORY (ADA): AMERICAN STANDARD 0366.015, 20" x 16" VITREOUS CHINA, WALL HUNG, 8" FAUCET CENTERS AND GRID STRAINER. PROVIDE WITH TEMPERATURE MIXING VALVE EQUAL TO POWERS HYDROGUARD LFG480 SERIES, 0.25 GPM MINIMUM FLOW, ASSE 1070, INTEGRAL CHECKS, 1.2 GPM AT 10 psi DROP. SET AT 105° F MAXIMUM (VERIFY ACTUAL TEMPERATURE REQUIRED WITH OWNER).  
FAUCET (ADA): CHICAGO #1100-G2AE39V3177AB, GOOSENECK, TEMPERED AND COLD WATER, 4" WRIST BLADE HANDLES, AERATOR.

**LH**

LAVATORY (ACCESSIBLE): KOHLER K-2196-8, VITREOUS CHINA, SELF-RIMMING, 8" FAUCET CENTERS, FRONT OVERFLOW, GRID STRAINER. PROVIDE WITH TEMPERATURE MIXING VALVE EQUAL TO POWERS HYDROGUARD LFG480 SERIES, 0.25 GPM MINIMUM FLOW, ASSE 1070, INTEGRAL CHECKS, 1.2 GPM AT 10 psi DROP. SET AT 105° F MAXIMUM (VERIFY ACTUAL TEMPERATURE REQUIRED WITH OWNER).  
FAUCET (ACCESSIBLE): CHICAGO #1100-G2AE39V3177AB, GOOSENECK, TEMPERED AND COLD WATER, 4" WRIST BLADE HANDLES, AERATOR.

**SKH (SINGLE BOWL DROP IN)**

SINK (ACCESSIBLE): ELKAY #LRAD-3219-55 (OFF-CENTER DRAIN), 18 GAUGE STAINLESS STEEL, SELF-RIM, 18" x 14" x 5.5" DEEP BOWL, THREE (3) FAUCET HOLES WITH STAINLESS STEEL BASKET STRAINER. PROVIDE WITH TEMPERATURE MIXING VALVE EQUAL TO POWERS HYDROGUARD LFG480 SERIES, 0.5 GPM MINIMUM FLOW, ASSE 1070, INTEGRAL CHECKS, 1.6 GPM AT 10 psi DROP. SET AT 105° F MAXIMUM (VERIFY ACTUAL TEMPERATURE REQUIRED WITH OWNER).  
FAUCET: ELKAY #LKD24Z38HC, SWING GOOSENECK, WRIST BLADE HANDLES.

**KSH (BREAKROOM - 2 BOWL)**

KITCHEN SINK (ADA): ELKAY #LRAD-3219-55 (OFF-CENTER DRAIN), 18 GAUGE STAINLESS STEEL, SELF-RIM, TWO (2) 14" x 14" x 5.5" DEEP BOWLS, FOUR (4) FAUCET HOLES WITH TWO (2) STAINLESS STEEL BASKET STRAINERS. FAUCET HOLE FOR SIDE SPRAY TO BE 6" FROM ADJACENT HOLE TO ACCOMMODATE 4" WRISTBLADE HANDLE. PROVIDE WITH TEMPERATURE MIXING VALVE EQUAL TO POWERS HYDROGUARD LFG480 SERIES, 0.5 GPM MINIMUM FLOW, ASSE 1070, INTEGRAL CHECKS, 1.6 GPM AT 10 psi DROP. SET AT 110° F MAXIMUM (VERIFY ACTUAL TEMPERATURE REQUIRED WITH OWNER).

**SS**

SERVICE SINK: FIAT #TSB-3001, 32" x 32" x 12 1/4" ONE-PIECE PRECAST TERRAZO WITH CONTINUOUS STAINLESS STEEL CAPS ON ALL CURBS AND 6" FRONT DROP THRESHOLD, 3/2" AA HOSE AND HOSE BRACKET, MS3-3222 STAINLESS STEEL WALL GUARD.  
FAUCET: MOEN #8220 SERVICE SINK FAUCET WITH VACUUM BREAKER, THREADED SPOUT, SERVICE STOPS AND WALL BRACKET.  
PROVIDE WITH ADDITIONAL HOSE BIBB EQUAL TO WOODFORD MODEL 26 ABOVE SERVICE SINK. THIS HOSE BIBB IS TO BE FED FROM WATTS 009 RPZ FOR CONTINUOUS PRESSURE APPLICATIONS.

**EWCHBF (FILTERED)**

ELECTRIC WATER COOLER WITH BOTTLE FILLER (ADA): ELKAY #LYRCGRNTLBNKX, HIGH EFFICIENCY, FILTERED, SENSOR ACTIVATED BOTTLE FILLING STATION, VANDAL RESISTANT, TWO (2) STATION, VANDAL RESISTANT PUSH BUTTON IN FRONT, VANDAL RESISTANT BUBBLERS, STAINLESS STEEL FINISH, and CANE APRON, 120V-1PH. MODIFIED WITH BOTTLE FILLER ON LOWER RIGHT UNIT. VERIFY EXACT LOCATION OF BOTTLE FILLER WITH ARCHITECT PRIOR TO ORDERING.

**HB (OUTDOOR FREEZE PROTECTED, IN WALL)**

HOSE BIBB: WOODFORD MODEL B67 SERIES, IN FLUSH MOUNTING WALL BOX, ASSE 1052 OR 1011 BACKFLOW PROTECTED AUTOMATIC DRAINING, FREEZELESS, NO SPRAYBACK. PROVIDE SHUT-OFF VALVE INSIDE BUILDING IN ACCESSIBLE LOCATION. SLOPE LINE FROM SHUT-OFF VALVE TO WALL HYDRANT TO ALLOW DRAINING OF LINE FOR FREEZE PROTECTION.

**WB (REFRIGERATOR WALL BOX)**

WALL BOX FOR CONNECTION TO REFRIGERATOR WATER AND/OR ICE MAKER EQUAL TO SIOUX CHIEF 696 SERIES WITH ABS OUTLET BOX, 1/4 TURN VALVE AND ASSE 1010 WATER HAMMER ARRESTOR.

**WH -1, WH-2**

WATER HEATER: A.O.SMITH MODEL DEL-40, 40 GALLON STORAGE, 6KW-208V-1PH NON-SIMULTANEOUS ELEMENTS, 31 GPH RECOVERY AT 80 DEGREES REISE.

**HWRP - 1, HWRP - 2**

HOT WATER RECIRCULATION PUMP: GRUNDFOS UPS15-55, THREE SPEED, 4 GPM AT TEN FEET (10') OF HEAD. 1/2 HP-120V-1PH.

**FD (SQUARE)**

FLOOR DRAIN (GENERAL PURPOSE): C.1. BODY, FLASHING COLLAR, WEEPHOLES, ADJUSTABLE HEAVY DUTY STAINLESS STEEL SQUARE TOP (6" X6") AND STAINLESS STEEL SEDIMENT BASKET. MIFAB F1000-C-S-5-6-7 SERIES.

**FS2**

FLOOR SINK: 12" x 12" x 8" DEEP WITH ACID-RESISTING PORCELAIN ENAMEL INTERIOR, STAINLESS STEEL SEDIMENT BUCKET AND STAINLESS STEEL GRATE (FULL HINGED GRATE). MIFAB FS1730-3 SERIES.

**RD1 (PRIMARY)**

PRIMARY ROOF DRAIN: CAST IRON BODY, FLASHING COLLAR, GRAVEL STOP, GALVANIZED METAL DOME, UNDER DECK CLAMP, EXTENSION AND SLUMP RECEIVER, MIFAB R1200-12-B-E-U SERIES.

**RD2 (OVERFLOW)**

OVERFLOW ROOF DRAIN: SAME AS RD1, SET ADJUSTABLE INLET 2 INCHES HIGHER THAN INLET OF RD1. MIFAB R1200-12-B-E-U-WB. COORDINATE AND CONFIRM FINAL LOCATION WITH ROOFING CONSULTANT PRIOR TO ROUGH-IN.

**DN (ADD WITH RD2)**

DISCHARGE NOZZLE: ZURN #199, STAINLESS STEEL OR NICKEL BRONZE. SAME SIZE AS RAINLEADER.



Final Plans for Bidding and Construction

QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH  
DIOCESE OF VICTORIA  
HOUSTON, TX

2025 SHEET ACCORD ASSOCIATES

DATE ISSUED:  
07-02-2025

PROJECT NUMBER:  
1024-0623



REFERENCE GENERAL NOTES ON SHEETS M1.1, P1.1, AND E1.1 FOR ADDITIONAL INFORMATION



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HCE job no.: 24-037

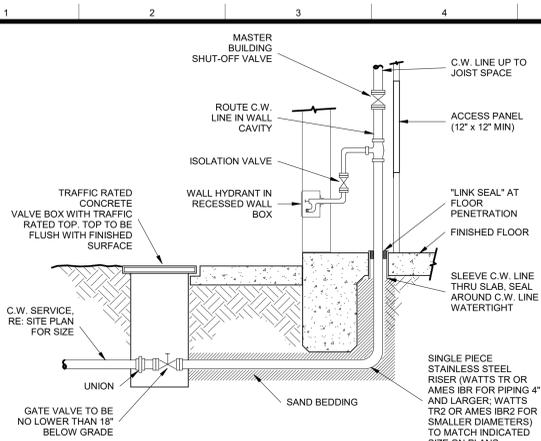
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SHEET NAME  
SCHEDULES - PLUMBING

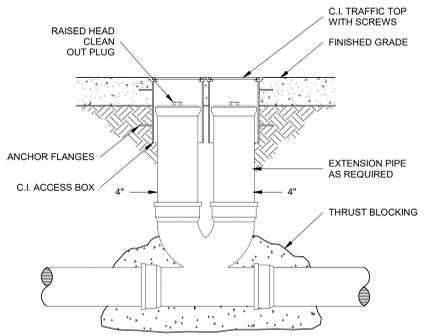
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P1.2

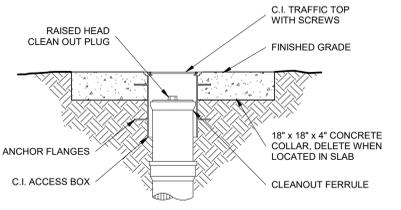
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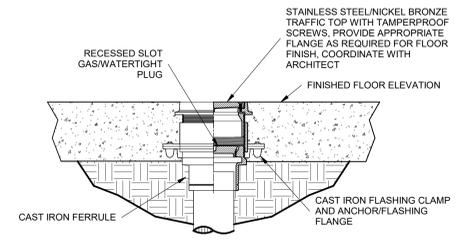
**C.W. BUILDING ENTRY DETAIL**  
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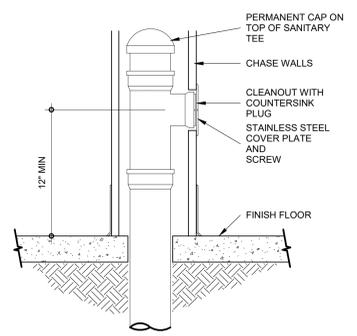
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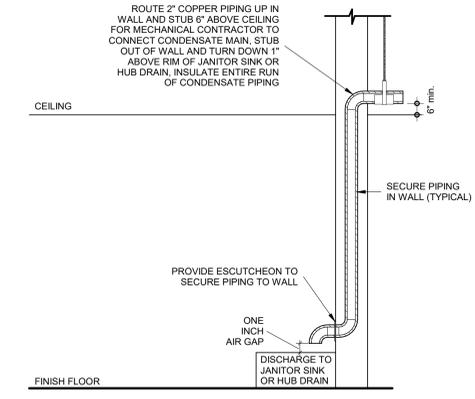
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 NO SCALE PDE88



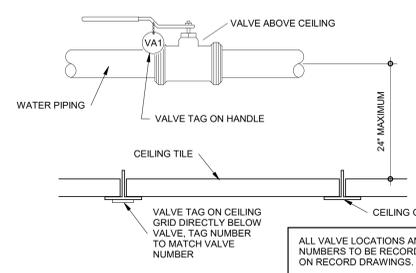
**INTERIOR FLOOR CLEANOUT**  
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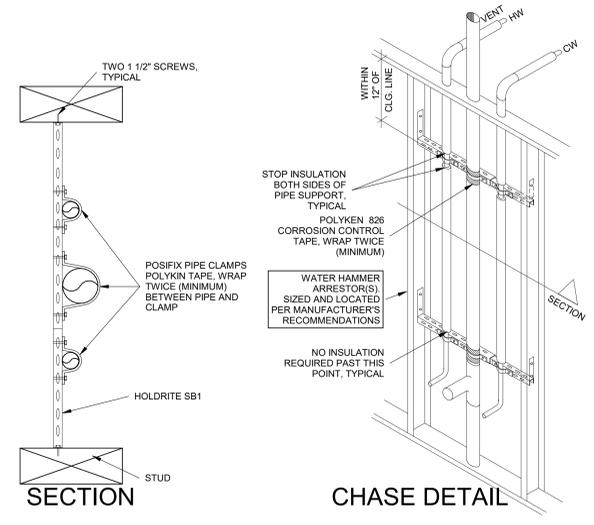
**WALL CLEANOUT**  
 NO SCALE PDE89



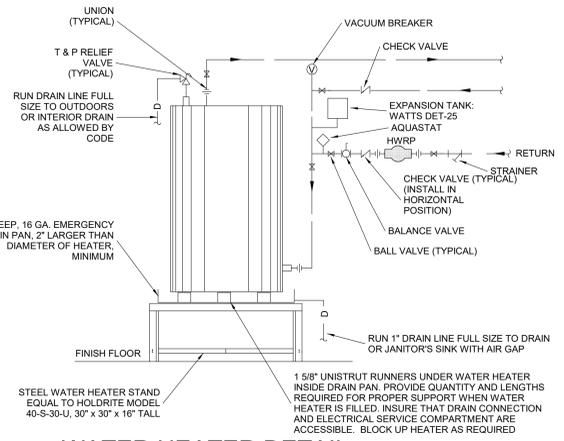
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 SCALE: NONE PDE37



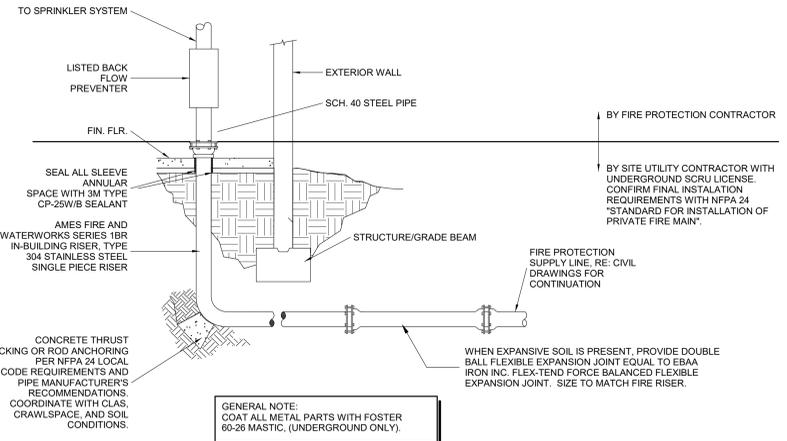
**TYPICAL VALVE IDENTIFICATION DETAIL**  
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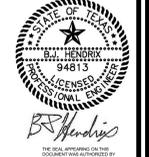
**TYP. PLUMBING CHASE SUPPORT DETAIL**  
 NO SCALE PDE30



**WATER HEATER DETAIL**  
 NO SCALE PDE81



**FIRE LINE RISER SUPPORT DETAIL**  
 NO SCALE PDE92



REFERENCE GENERAL NOTES ON SHEETS M1, P1, 1, AND E1.1 FOR ADDITIONAL INFORMATION.

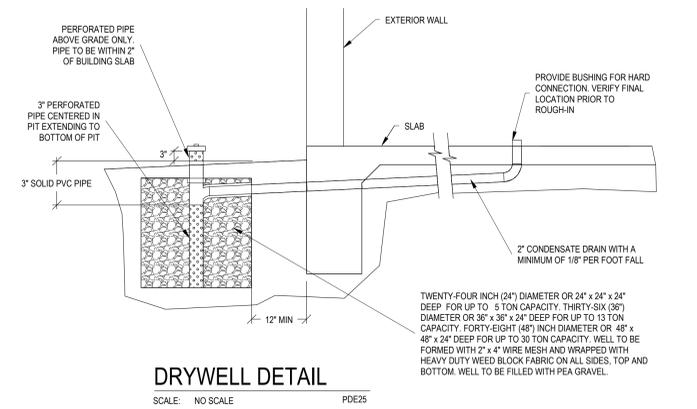
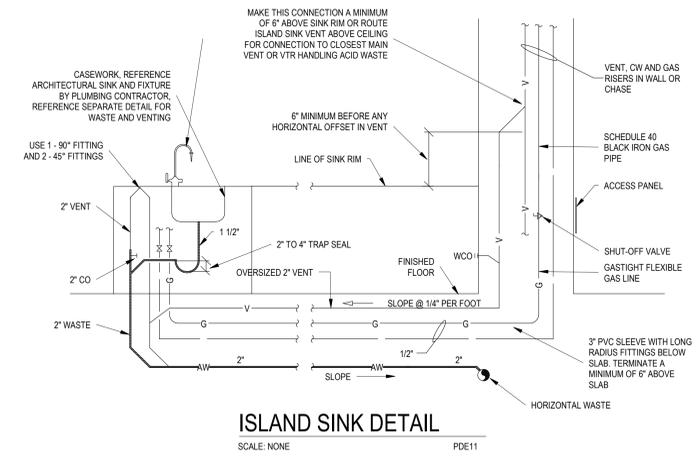
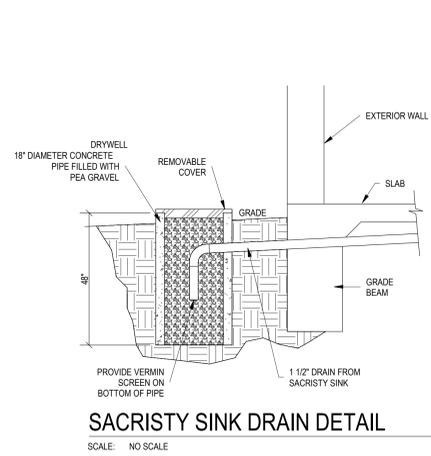
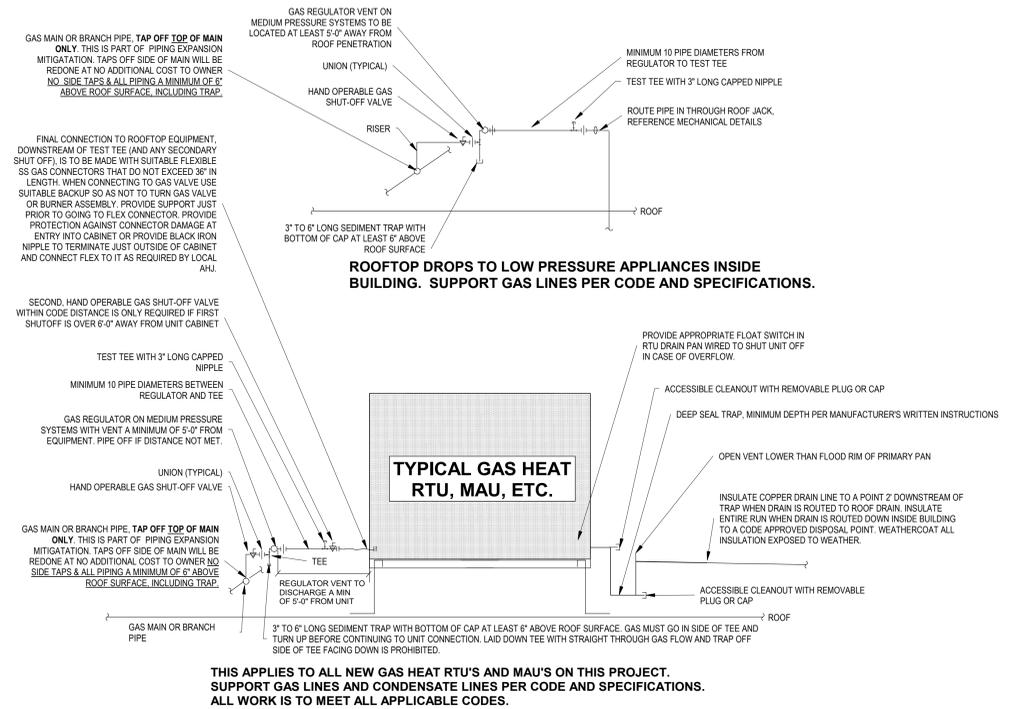
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### PLUMBING KEY NOTES

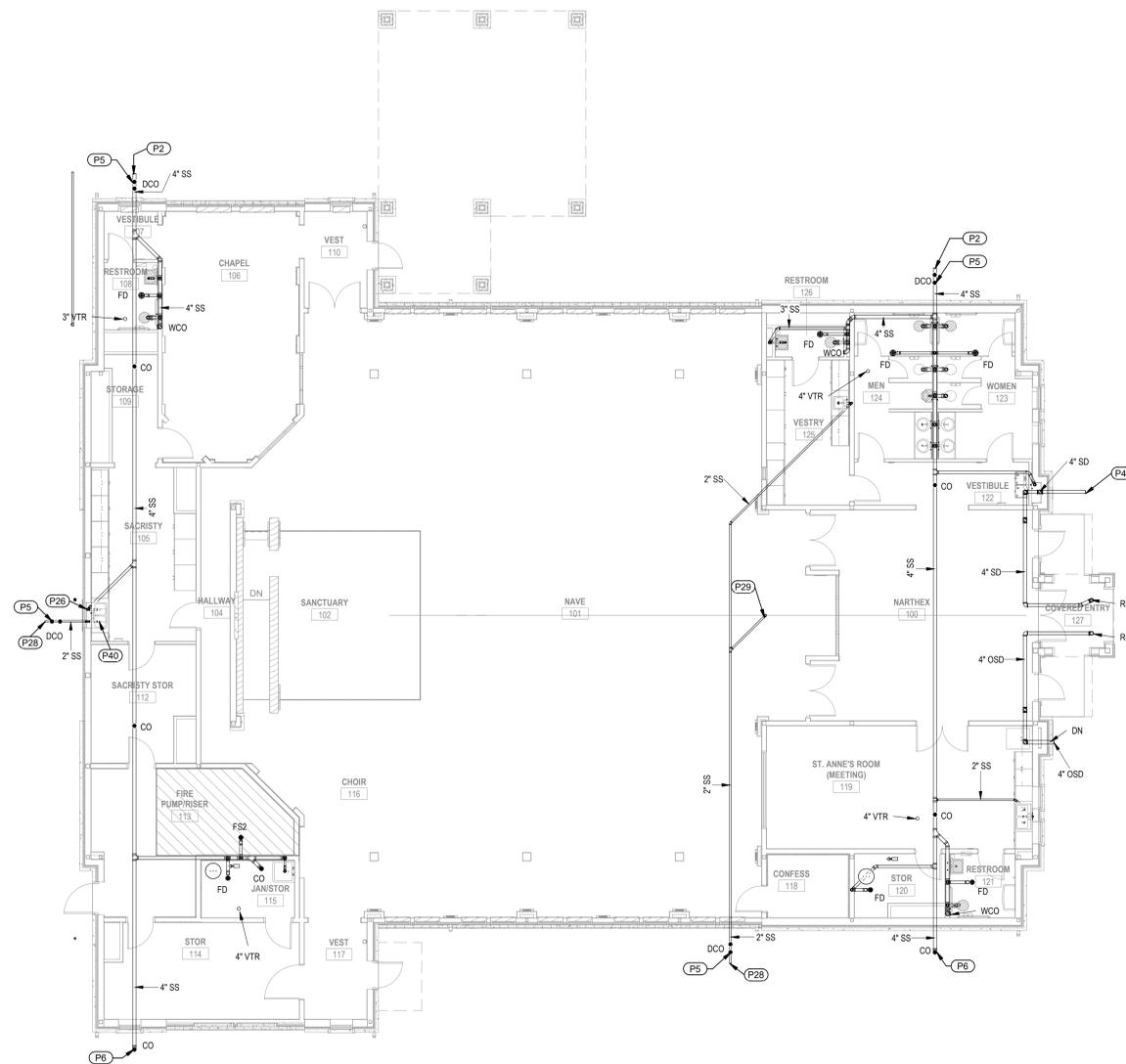
THESE NOTES APPLY TO THIS SHEET ONLY

- P2 CONNECT TO WASTEWATER (WW) STUB PROVIDED BY CIVIL. FIELD VERIFY EXACT LOCATION AND INVERT. PROVIDE ADAPTER AS REQUIRED TO MAKE SIZE AND/OR MATERIAL TRANSITION.
- P5 RE: DOUBLE CLEANOUT DETAIL ON PLUMBING DETAIL SHEET(S).
- P6 RE: EXTERIOR CLEANOUT DETAIL ON PLUMBING DETAIL SHEET(S).
- P26 CONTRACTOR TO OFFSET VENT FROM UNDER WINDOW.
- P28 ROUTE WASTE LINE TO DRYWELL.
- P29 DRAIN FROM BAPTISMAL WELL.
- P40 SEPARATE DRAIN LINE FOR HOLY WATER - WATER TO GO TO A DRYWELL.
- P41 CONNECT TO CIVIL CONNECTION FOR STORM. FIELD VERIFY EXACT LOCATION AND INVERT. PROVIDE ADAPTER AS REQUIRED TO MAKE SIZE AND/OR MATERIAL TRANSITION.

### PLUMBING GENERAL SHEET NOTES

THESE NOTES APPLY TO ALL SHEETS

- A. REFERENCES: REFERENCE STANDARD DETAILS ON PLUMBING DETAIL SHEETS, CW BUILDING ENTRY, WATER HEATER (TMV, HWRP), DOUBLE CLEANOUT, INTERIOR CLEANOUT, EXTERIOR CLEANOUT, CONDENSATE STUB, ELEVATOR SUMP, ETC....
- B. FIXTURE CONNECTION: WATER AND WASTE MAINS ARE SHOWN NEAR FIXTURES IN PLANS. REFERENCE PIPE SIZES REQUIREMENTS AND FIXTURE CONNECTION SCHEDULE FOR FINAL CONNECTION SIZES AND REQUIREMENTS INCLUDING BUT NOT LIMITED TO: ALL COLD WATER (CW), HOT WATER (HW), WASTE WATER (WW), VENT, TAP, SIZE, VALVE REQUIREMENTS. FOR ALL INDIVIDUAL PLUMBING FIXTURES. INDIVIDUAL FIXTURES CONNECTIONS NOT SPECIFICALLY DRAWN, ALL FIXTURES ARE TO BE CONNECTED TO MAIN AND DISTRIBUTION PIPES SHOWN AS INDICATED IN NOTES AND SCHEDULES. CONTRACTOR IS TO PROVIDE FINAL CONNECTIONS TO ALL FIXTURES SHOWN ON PLUMBING AND ARCHITECTURAL DRAWINGS.
- C. HAND WASH SINKS: PROVIDE 1/2" HOT WATER RETURN LINE WITH "CIRCUIT SOLVER" THERMOSTATIC BALANCING VALVE AND ISOLATION BALL VALVE THEN CONNECT BACK TO HOT WATER RETURN LOOP. PROVIDE THIS AT EVERY PUBLIC HAND WASH SINK OR GROUP OF SINKS. EACH RETURN LINE MAY NOT BE SHOWN ON PLANS. THEY ARE SCHEDULED HERE.
- D. ARCHITECT COORDINATION: EVERY EFFORT HAS BEEN MADE TO COORDINATE APPROPRIATE WALL THICKNESS WITH ARCHITECT FOR PIPING. WHERE ACTUAL CONDITIONS REQUIRED ADDITIONAL WALL THICKNESS COORDINATE WITH ARCHITECT.
- E. MILLWORK: CONFIRM SINK DIMENSIONS WORK WITH FINAL MILLWORK SHOP DRAWINGS PRIOR TO SUBMITTAL. ANY SINKS THAT WON'T FIT, HIGHLIGHT AND PROVIDE ALTERNATE SINK OF SAME STYLE THAT WILL FIT AS SAME COST IN SUBMITTAL.
- F. CLEAN OUTS: PROVIDE CLEANOUTS AT MINIMUM PER IPC 708, AND AS SHOWN ON PLANS. EVERY 50 FT OF WASTE LINE AND AT THE ENDS OF EACH BRANCH. WHEN CLEAN OUTS ARE IN HIGH PROFILE AREAS AND CORRIDORS MAKE EVERY EFFORT TO KEEP OUT OF THE MAIN WALK PATH AND GET ARCHITECT APPROVAL FOR LOCATIONS IN HIGH TRAFFIC AREAS THAT RAISE CONCERN.
- G. MULTI STORY AREAS: EVERY EFFORT HAS BEEN TAKEN TO SHOW DESIGN INTENT AND CONNECTIONS OF ALL FIXTURES. WHERE WASTEWATER LINES FROM ABOVE ARE COMING DOWN A WALL THEY MUST BE CONNECTED IN TO WASTE PIPING AT LOWEST LEVEL, EVEN IF NOT SPECIFICALLY SHOWN ON FLOOR BELOW.
- H. COORDINATION: COORDINATE FINAL ROUTING OF PIPING WITH OTHER TRADES PRIOR TO INSTALLATION TO ENSURE FINAL ROUTING AND ELEVATIONS. PROVIDE ALL OFFSETS REQUIRED.
- I. VENT PIPING: OFFSET ALL VENT PIPING AS REQUIRED FROM CHASES IN MILLWORK AND OFFSET INTO FULL HEIGHT WALLS BEHIND. OFFSET VENT PIPING AROUND WINDOWS AS REQUIRED WHERE STUDDOR VENTS ARE NOT USED. PROVIDE MULTIPLE VTRS AROUND BUILDING TO MEET CODE.
- J. RATED WALLS: ENSURE ALL PIPING PASSING THRU RATED WALLS ARE FIRE SEALED TO MAINTAIN WALL RATING. INSTALL PER UL DETAIL FOR SEALANT AND METHOD BEING USED.
- K. ELEVATED FLOOR PENETRATION: SEAL AROUND ALL PIPING PASSING THRU FLOOR WITH FIRE SEALANT.
- L. SINKS IN ISLANDS: REFERENCE ISLAND SINK DETAIL.
- M. STRUCTURAL COORDINATION: COORDINATE ALL WASTEWATER FLOOR PENETRATIONS AND PIPING PENETRATIONS THRU GRADE BEAMS WITH STRUCTURAL ENGINEER. PIPING MAY BE OFF-SET SLIGHTLY TO AVOID STRUCTURAL CONFLICTS.
- N. ELECTRIC, MDF, IDF ROOMS: NO PIPING ALLOWED OVER THESE ROOMS. ROUTE ALL WATER PIPING AROUND THESE ROOMS.
- O. EXPOSED CEILING: WHEN ROUTING PIPING IN EXPOSED CEILINGS CONFIRM ELEVATION OF PIPING WITH ARCHITECT PRIOR TO INSTALLATION. HORIZONTAL PIPING SHOULD GENERALLY BE AS HIGH AS POSSIBLE. WHEN DROPPING DOWN TO FIXTURE IN ROOM, DROP DOWN WITHIN 6" OF WALL THEN PUT SHUT-OFF VALVE AT APPROXIMATE 8FT ABOVE FINISH FLOOR, PRIOR TO ENTERING WALL TO FEED FIXTURE.



**01 FIRST FLOOR PLAN - PLUMBING - WASTE**  
SCALE: 1/8" = 1'-0"



Final Plans for Bidding and Construction

**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
**DIocese of Victoria**  
 HOUSTON, TX  
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DATE ISSUED:  
**07-02-2025**

PROJECT NUMBER:  
1024-0623



REFERENCE GENERAL NOTES ON SHEETS M1, P1, AND E1.1 FOR ADDITIONAL INFORMATION

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PLAN NORTH TRUE NORTH

SHEET NAME  
**FIRST FLOOR PLAN - PLUMBING - WASTE**

SHEET NUMBER  
**P2.1**

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# GAS PIPING GENERAL SHEET NOTES

THESE NOTES APPLY TO ALL SHEETS

- A. **SCHEDULE 40 BLACK IRON ONLY, NO GALVANIZED PIPING**
- B. **GAS LOAD FOR EACH RTU=70 MBH MIN, UNLESS OTHERWISE NOTED.**
- C. **MINIMUM EQUIPMENT GAS LINE SIZE TO INDIVIDUAL UNIT TO BE 3/4", UNLESS SPECIFICALLY NOTED.**
- D. **GAS PIPING SUPPORT:** SUPPORT ALL GAS PIPING WITH PIPE STANDS/ROLLER EQUAL TO MIRO INDUSTRIES MODEL 4-RAH-PC OR PORTABLE PIPE HANGERS, INC. (PPH) TYPE PPH10 WITH ROLLER. FOR PIPING 2 1/2" UP TO AND INCLUDING 8" USE MIRO INDUSTRIES MODEL 6-RAH-PC OR PORTABLE PIPE HANGER, INC. (PPH) TYPE PS-1-2. ALL PIPE STANDS TO SIT ON WALKBOARD. WALK BOARD TO BE A MINIMUM OF 3" LARGER ON EACH SIDE THAN SUPPORT. PROVIDE MINIMUM PIPE HEIGHT ABOVE ROOF DECK AS REQUIRED BY JURISDICTION HAVING AUTHORITY (AT LEAST 6"). PROVIDE SUPPORTS FOR PIPING UNDER 2" AT (6) SIX FEET ON CENTER. PROVIDE SUPPORTS FOR PIPING 2" AND OVER AT (8) EIGHT FEET ON CENTER. WHEN PIPING OVER PARAPET WALL, SUPPORT ON BOTH SIDE OF WALL AND ON TOP OF WALL. SECURE TO PARAPET WALL, BOTH SIDES TO PREVENT MOVING. COORDINATE FLASHING OF THIS CONNECTION WITH ARCHITECT OR ENVELOPE CONSULTANT.
- E. **GAS SERVICE:** INSTALL GAS METER ASSEMBLY PER ALL UTILITY COMPANY REQUIREMENTS. PROVIDE FULL SIZE SHUT-OFF VALVES ON BOTH SIDES OF GAS METER. ROUTE PIPING DOWN A MINIMUM OF TWELVE INCHES (12") UNDERGROUND AND STUB UP FOR NEW GAS METER TO BE INSTALLED BY LOCAL GAS COMPANY. VERIFY GAS SERVICE LOCATION WITH CIVIL DRAWINGS AND LOCAL GAS COMPANY BEFORE INSTALLATION OF GAS PIPING. PAINT GAS RISER ON BUILDING TO MATCH BUILDING EXTERIOR. PIPING UNDERGROUND TO BE WRAPPED FOR PROTECTION.
- F. **INSTALLATION:** PURGE ALL GAS PIPING WITH 100 PSI COMPRESSED AIR OR DRY NITROGEN FROM END OF RUN(S) BACK TO BUILDING CONNECTION WITH ALL EQUIPMENT SHUT OFF AND VALVES CLOSED TO PROTECT REGULATORS/GAS VALVES. FINAL PRESSURE TEST PIPING USING COMPRESSED AIR AT 60 PSI. SOAP ALL JOINTS. LINE SIZE FROM REGULATOR TO EQUIPMENT IS TO MATCH EQUIPMENT INLET CONNECTION SIZE. TRANSITION RIGHT AT REGULATOR. PRIME AND PAINT ALL THE EXPOSED GAS PIPING YELLOW ON ROOF, RISER TO MATCH BUILDING, CONFIRM COLOR AS SELECTED BY ARCHITECT.
- G. **GAS PIPING FROM REGULATOR TO EQUIPMENT TO BE THE SAME SIZE AS THE UNIT CONNECTION SIZE.** REFERENCE DETAIL.
- H. **GAS LOAD IN MBH LISTED FOR EQUIPMENT OR PIPE SEGMENT IS USED FOR PIPE SIZING.** VERIFY ACTUAL FINAL LOADS WITH EQUIPMENT BEING PROVIDED. NOTIFY ENGINEER OF ANY DISCREPANCIES WITH ACTUAL EQUIPMENT LOADS AND DESIGN LOADS.
- I. **FOR 5PSI GAS SERVICE PIPING SYSTEMS PROVIDE APPROPRIATE SIZE REGULATOR FOR EVERY PIECE OF EQUIPMENT AND AT ALL GAS PIPING THAT GOES INTO BUILDING TO SERVICE WATER HEATERS, KITCHEN EQUIPMENT, OTHER INTERIOR EQUIPMENT.** GENERALLY NO 5 PSI GAS SHOULD BE INSIDE BUILDING UNLESS SPECIFICALLY NOTED.
- J. **PURGE ALL GAS LINES FREE OF DEBRIS PRIOR TO INSTALLING REGULATORS.** AT THE END OF THE JOB PRIOR TO TURNING OVER TO OWNER. CLEAN ALL GAS REGULATOR DEBRIS SCREENS. TURN OVER TO OWNER CLEAN.
- K. **GAS SUB-METER:** WHEN PROVIDED BY BAS(BUILDING AUTOMATION SYSTEM), PLUMBER TO INSTALL GAS SUB-METER. CONTROLS CONTRACTOR TO MAKE ALL CONTROL CONNECTIONS.
- L. **UNIT CONNECTION:** UNLESS SPECIFICALLY NOTED OTHERWISE PROVIDE THE FOLLOWING AT EACH UNIT AND FOLLOW THE UNIT GAS CONNECTION DETAIL ON THE DETAIL SHEETS. PROVIDE SHUT-OFF VALVE, REGULATOR, TEST PORT AND DIRTY LEG AT EVERY UNIT.
- M. **BRANCH TAPS:** ALL GAS PIPING TAPS OFF OF MAIN PIPING SHOULD BE OFF TOP OF PIPE.
- N. **BRANCH SHUT OFF VALVE:** PROVIDE ADDITIONAL SHUT OF VALVES IN GAS PIPING, MINIMUM TO ISOLATE KITCHEN, SEPARATE WINGS OF BUILDING.
- O. **EXPANSION LOOPS:** EVERY 100 FT OF STRAIGHT GAS PIPE, INSTALL MIN. 5FT x 5FT x 5FT U-SHAPE EXPANSION LOOP.

# GAS DEMAND (MEDIUM PRESSURE (2lb) AT BUILDING)

**APPROXIMATE DEMAND = 700 MBH FOR CHURCH UNITS ONLY.**  
**APPROXIMATE TOTAL DEVELOPED LENGTH FROM METER REGULATOR TO MOST REMOTE OUTLET = 1000 FEET.**

**BREAKDOWN:**

**RTU GAS HEAT.....700 MBH**

**RESIDENCE 1 (APPROXIMATE)**

STOVE.....50 MBH  
 WATER HEATER.....55 MBH  
 DRYER.....18 MBH  
 FURNACE.....100 MBH

**RESIDENCE 2 (APPROXIMATE)**

STOVE.....50 MBH  
 WATER HEATER.....55 MBH  
 DRYER.....18 MBH  
 FURNACE.....100 MBH

**PARISH HALL (APPROXIMATE).....????? MBH**

# PLUMBING KEY NOTES

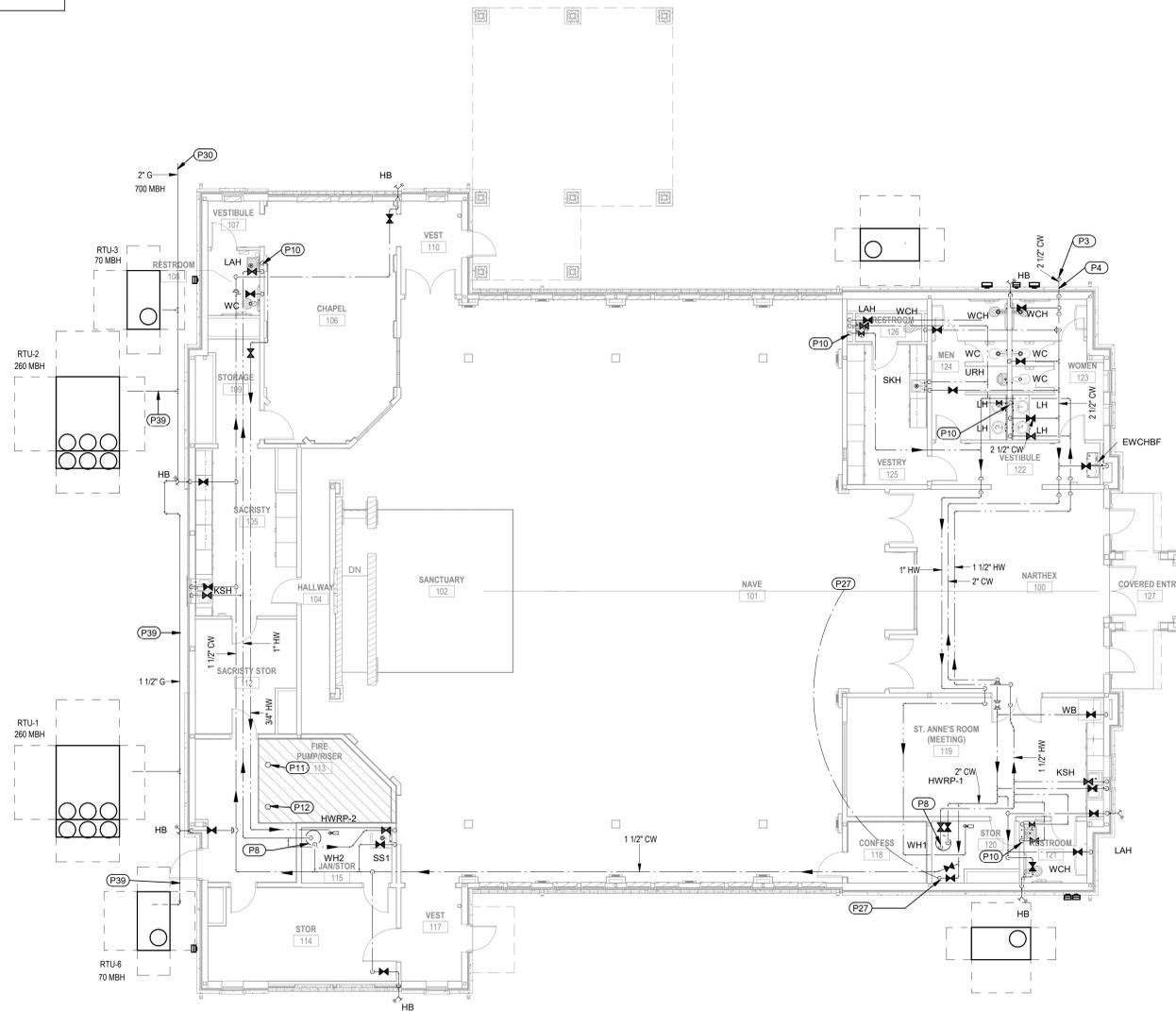
THESE NOTES APPLY TO THIS SHEET ONLY

- P3 CONNECT TO COLD WATER (CW) STUB PROVIDED BY CIVIL. FIELD VERIFY EXACT LOCATION. PROVIDE ADAPTER AS REQUIRED TO MAKE SIZE AND/OR MATERIAL TRANSITION.
- P4 RE: CW BUILDING ENTRY DETAIL ON PLUMBING DETAIL SHEET(S).
- P8 RE: WATER HEATER DETAIL ON PLUMBING DETAIL SHEET(S) FOR WATER HEATER AND HOT WATER RECIRCULATION PUMP PIPING.
- P10 ROUTE HW DOWN ON ONE SIDE OF LAVATORIES. BACK UP ON OTHER SIDE OF LAVATORIES AND RECONNECT TO HW RESURC MAIN. (THIS IS DONE TO MEET MAXIMUM LENGTHS PER ICC).
- P11 CONNECT TO FIRE LINE (F) STUB PROVIDED BY CIVIL. FIELD VERIFY EXACT LOCATION AND INVERT.
- P12 CONNECT TO FIRE LINE (F) STUB PROVIDED BY CIVIL FOR REMOTE FIRE DEPARTMENT CONNECTION (FDC). FIELD VERIFY EXACT LOCATION AND INVERT.
- P27 ROUTE 3/4" CW LINE UNDERGROUND TO LOCATION SHOWN. STUB UP AND PROVIDE A CUT-OFF VALVE.
- P30 MEDIUM PRESSURE (5 LB) GAS PIPING. PROVIDE SUPPORTS PER SPECIFICATIONS. PROVIDE SUPPORTS FOR PIPING UNDER 2" AT SIX FEET (6') ON CENTER MAXIMUM. PROVIDE SUPPORTS FOR PIPING 2" AND LARGER AT EIGHT FEET (8').
- P39 COORDINATE WITH CIVIL ROUTING OF UNDERGROUND GAS LINES TO RTU. STUB UP CLOSE TO RTU TO MAKE FINAL CONNECTION.

# PLUMBING GENERAL SHEET NOTES

THESE NOTES APPLY TO ALL SHEETS

- A. **REFERENCES:** REFERENCE STANDARD DETAILS ON PLUMBING DETAIL SHEETS. CW BUILDING ENTRY, WATER HEATER (TW, HWRP), DOUBLE CLEANOUT, INTERIOR CLEANOUT, EXTERIOR CLEANOUT, CONDENSATE STUB, ELEVATOR SUMP, ETC....
- B. **FIXTURE CONNECTION:** WATER AND WASTE MAINS ARE SHOWN NEAR FIXTURES IN PLANS. REFERENCE PIPE SIZING REQUIREMENTS AND FIXTURE CONNECTION SCHEDULE FOR FINAL CONNECTION SIZES AND REQUIREMENTS INCLUDING BUT NOT LIMITED TO: ALL COLD WATER (CW), HOT WATER (HW), WASTE WATER (WW), VENT, TAP, SIZE, VALVE REQUIREMENTS. FOR ALL INDIVIDUAL PLUMBING FIXTURES. INDIVIDUAL FIXTURES CONNECTIONS NOT SPECIFICALLY DRAWN, ALL FIXTURES ARE TO BE CONNECTED TO MAIN AND DISTRIBUTION PIPES SHOWN AS INDICATED IN NOTES AND SCHEDULES. CONTRACTOR IS TO PROVIDE FINAL CONNECTIONS TO ALL FIXTURES SHOWN ON PLUMBING AND ARCHITECTURAL DRAWINGS.
- C. **HAND WASH SINKS:** PROVIDE 1/2" HOT WATER RETURN LINE WITH 'CIRCUIT SOLVER' THERMOSTATIC BALANCING VALVE AND ISOLATION BALL VALVE THEN CONNECT BACK TO HOT WATER RETURN LOOP. PROVIDE THIS AT EVERY PUBLIC HAND WASH SINK OR GROUP OF SINKS. EACH RETURN LINE MAY NOT BE SHOWN ON PLANS. THEY ARE SCHEDULED HERE.
- D. **ARCHITECT COORDINATION:** EVERY EFFORT HAS BEEN MADE TO COORDINATE APPROPRIATE WALL THICKNESS WITH ARCHITECT FOR PIPING. WHERE ACTUAL CONDITIONS REQUIRED ADDITIONAL WALL THICKNESS COORDINATE WITH ARCHITECT.
- E. **MILLWORK:** CONFIRM SINK DIMENSIONS WORK WITH FINAL MILLWORK SHOP DRAWINGS PRIOR TO SUBMITTAL. ANY SINKS THAT WON'T FIT, HIGHLIGHT AND PROVIDE ALTERNATE SINK OF SAME STYLE THAT WILL FIT AS SAME COST IN SUBMITTAL.
- F. **CLEAN OUTS:** PROVIDE CLEANOUTS AT MINIMUM PER IPC 708, AND AS SHOWN ON PLANS. EVERY 50 FT OF WASTE LINE AND AT THE ENDS OF EACH BRANCH. WHEN CLEAN OUTS ARE IN HIGH PROFILE AREAS AND CORRIDORS MAKE EVERY EFFORT TO KEEP OUT OF THE MAIN WALK PATH AND GET ARCHITECT APPROVAL FOR LOCATIONS IN HIGH TRAFFIC AREAS THAT RAISE CONCERN.
- G. **MULTI-STORY AREAS:** EVERY EFFORT HAS BEEN TAKEN TO SHOW DESIGN INTENT AND CONNECTIONS OF ALL FIXTURES. WHERE WASTE/STORM LINES FROM ABOVE ARE COMING DOWN A WALL THEY MUST BE CONNECTED IN TO WASTE PIPING AT LOWEST LEVEL, EVEN IF NOT SPECIFICALLY SHOWN ON FLOOR BELOW.
- H. **COORDINATION:** COORDINATE FINAL ROUTING OF PIPING WITH OTHER TRADES PRIOR TO INSTALLATION TO ENSURE FINAL ROUTING AND ELEVATIONS. PROVIDE ALL OFFSETS REQUIRED.
- I. **VENT PIPING:** OFFSET ALL VENT PIPING AS REQUIRED FROM CHASES IN MILLWORK AND OFFSET INTO FULL HEIGHT WALLS BEHIND. OFFSET VENT PIPING AROUND WINDOWS AS REQUIRED WHERE STUDOR VENTS ARE NOT USED. PROVIDE MULTIPLE VENTS AROUND BUILDING TO MEET CODE.
- J. **RATED WALLS:** ENSURE ALL PIPING PASSING THRU RATED WALLS ARE FIRE SEALED TO MAINTAIN WALL RATING. INSTALL PER UL DETAIL FOR SEALANT AND METHOD BEING USED.
- K. **ELEVATED FLOOR PENETRATION:** SEAL AROUND ALL PIPING PASSING THRU FLOOR WITH FIRE SEALANT.
- L. **SINKS IN ISLANDS:** REFERENCE ISLAND SINK DETAIL.
- M. **STRUCTURAL COORDINATION:** COORDINATE ALL WASTEWATER FLOOR PENETRATIONS AND PIPING PENETRATIONS THRU GRADE BEAMS WITH STRUCTURAL ENGINEER. PIPING MAY BE OFF-SET SLIGHTLY TO AVOID STRUCTURAL CONFLICTS.
- N. **ELECTRIC MIDE-IDE ROOMS:** NO PIPING ALLOWED OVER THESE ROOMS. ROUTE ALL WATER PIPING AROUND THESE ROOMS.
- O. **EXPOSED CEILING:** WHEN ROUTING PIPING IN EXPOSED CEILINGS CONFIRM ELEVATION OF PIPING WITH ARCHITECT PRIOR TO INSTALLATION. HORIZONTAL PIPING SHOULD GENERALLY BE AS HIGH AS POSSIBLE. WHEN DROPPING DOWN TO FIXTURE IN ROOM, DROP DOWN WITHIN 6" OF WALL THEN PUT SHUT-OFF VALVE AT APPROXIMATE 8FT ABOVE FINISH FLOOR, PRIOR TO ENTERING WALL TO FEED FIXTURE.



**01 FIRST FLOOR PLAN - PLUMBING - SUPPLY**  
 SCALE: 1/8" = 1'-0"



Final Plans for Bidding and Construction

QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH  
 DIOCESE OF VICTORIA  
 HOUSTON, TX

DATE ISSUED:  
 07-02-2025

PROJECT NUMBER:  
 1024-0623



REFERENCE GENERAL NOTES ON SHEETS M1, P1, 1, AND E1.1 FOR ADDITIONAL INFORMATION

MEP/ENERGY CONSULTANTS

**HCE** HENDRIX CONSULTING ENGINEERS

COMMISSIONING & FIELD INVESTIGATIONS

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F-4095  
 HCE job no.: 24-037

PLAN NORTH TRUE NORTH

SHEET NAME  
**FIRST FLOOR PLAN - PLUMBING - SUPPLY**

SHEET NUMBER  
**P3.1**

7/2/2025 9:26:02 AM Autodesk Docs://HCE Clouded Model R22Q0THR-Catholic-Church-MEP2.rvt

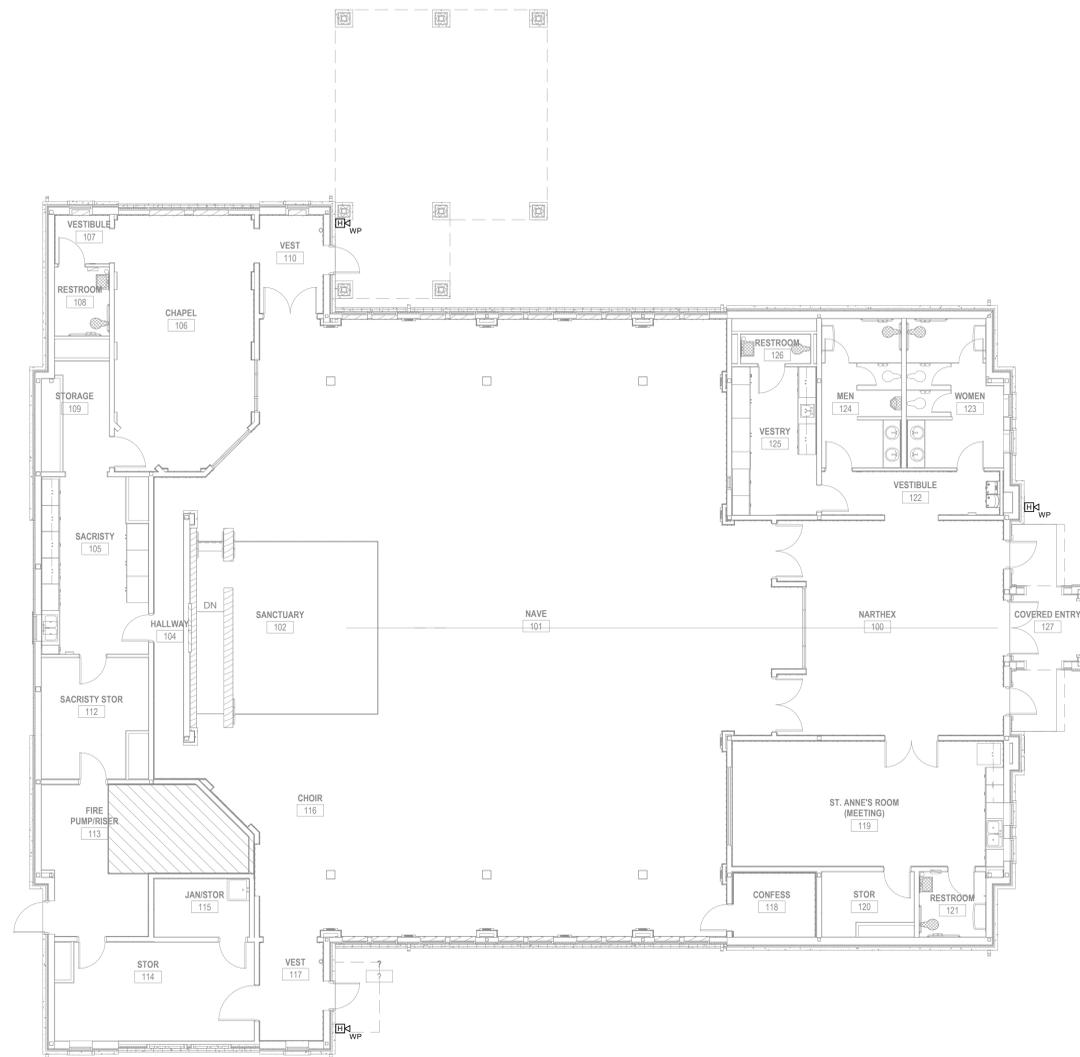
**FIRE SPRINKLER SYSTEM (PERFORMANCE SPECIFICATION)**

1. PROVIDE CODE REQUIRED FIRE SPRINKLER SYSTEM/DEVICE REQUIRED BY AHJ AND CURRENT LOCAL CODES
2. SYSTEM TO BE DESIGNED BY PROFESSIONAL FIRE SPRINKLER ENGINEER.
3. PROVIDE SHOP DRAWINGS APPROVED BY LOCAL AHJ.
4. PROVIDE COPY OF CURRENT STATE LICENSE
5. MONITOR FIRE SPRINKLER SYSTEM.
6. PROVIDE ELEVATOR RECALL SYSTEM.
7. COORDINATE EXTERIOR DEVICES WITH ARCHITECT.
8. PROVIDE PDFS OF ALL SUBMITTALS AND SHOP DRAWINGS FOR OWNER RECORDS.
9. PROVIDE HARDCOPY OF STAMPED APPROVED SET ONSITE WITH OWNER FOR RECORDS.

**FIRE PROTECTION**

ENTIRE BUILDING INCLUDING CANOPIES AND COVERED AREAS TO BE SPRINKLERED FOR FIRE PROTECTION. REFERENCE SPECIFICATIONS AND ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

REFERENCE ARCHITECTURAL RCP FOR FIRE SPRINKLER HEAD COORDINATION.



**01 FIRE PROTECTION PLAN - FIRST FLOOR**  
 SCALE: 1/8" = 1'-0"



THE SEAL APPROVED ON THIS DOCUMENT WAS PREPARED BY B. HENDRIX, P.E., NO. 94813, STATE OF TEXAS.

REFERENCE GENERAL NOTES ON SHEETS M1.1, P1.1, AND E1.1 FOR ADDITIONAL INFORMATION.

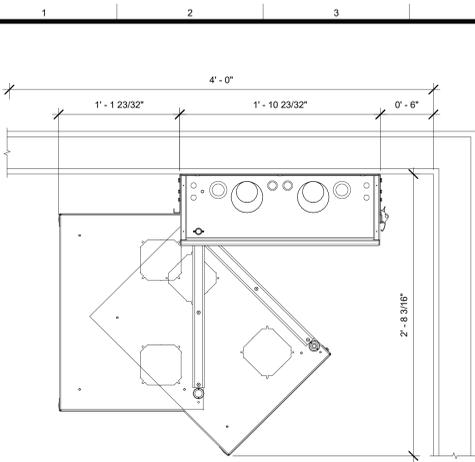
MEP ENERGY CONSULTANTS



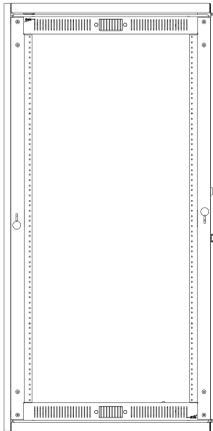
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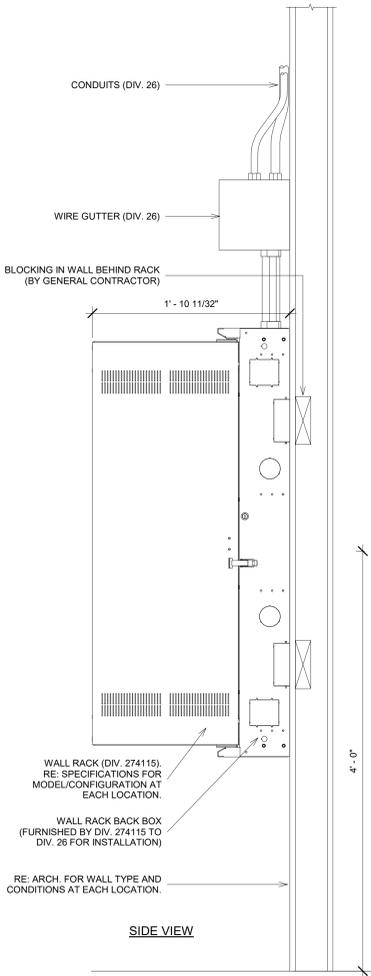
HCE job no.: 24-037



TOP VIEW (OPEN SHOWING CLEARANCES)



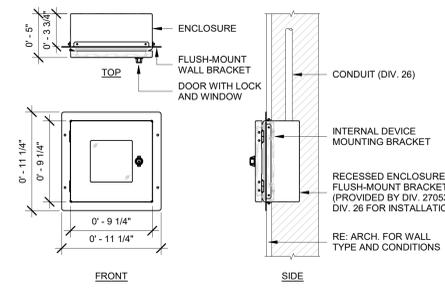
FRONT VIEW



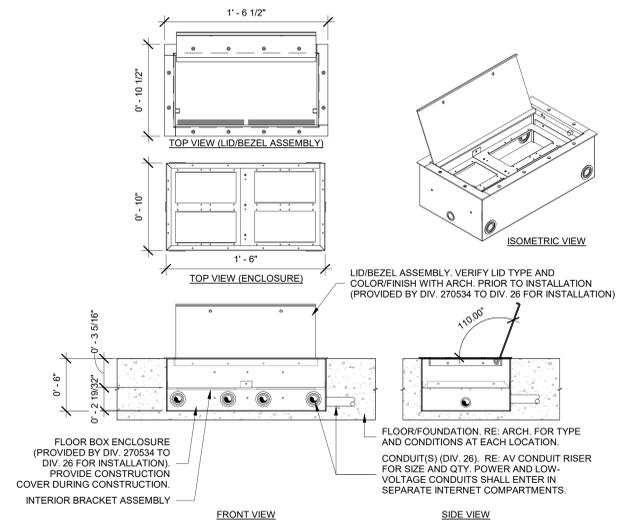
SIDE VIEW

WALL RACK (DIV. 274115)  
RE: SPECIFICATIONS FOR MODEL/CONFIGURATION AT EACH LOCATION.  
WALL RACK BACK BOX (FURNISHED BY DIV. 274115 TO DIV. 26 FOR INSTALLATION)  
RE: ARCH. FOR WALL TYPE AND CONDITIONS AT EACH LOCATION.

CONDUITS (DIV. 26)  
WIRE GUTTER (DIV. 26)  
BLOCKING IN WALL BEHIND RACK (BY GENERAL CONTRACTOR)



OUTDOOR WALL BOX DETAIL  
1 1/2" = 1'-0"



FLOOR POCKET DETAIL  
1 1/2" = 1'-0"

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

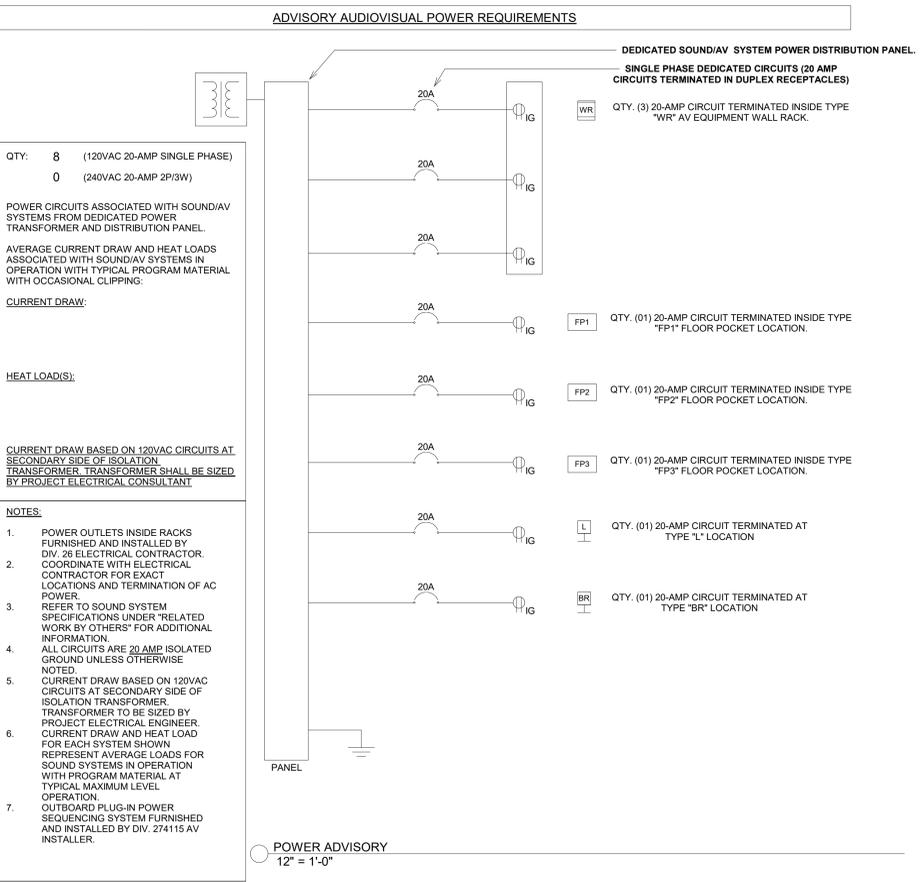
DEVICE LOCATION	QTY. AV/NET DATA CIRCUITS	QTY. ETHERNET DATA CIRCUITS	DESCRIPTION
1			DIV. 274115 TECHNOLOGY:

NOTES:  
1. SEE AV ONLINE DIAGRAMS FOR QUANTITIES OF EACH CIRCUIT TYPE TERMINATING AT EACH EQUIPMENT LOCATION.  
ETHERNET: COMMON BUILDING DATA NETWORK. PROVIDED AND INSTALLED BY TECHNOLOGY/DATA VENDOR.  
AV-NET: DEDICATED DATA NETWORK FOR AV STREAMING DATA. PROVIDED AND INSTALLED BY DIV. 274115.  
2. IN CONTEXT OF THE AUDIOVISUAL DOCUMENTS, THE BUILDING DATA "ETHERNET" NETWORK IS USED BY AV SYSTEMS FOR INTRANET AND INTERNET DATA ACCESS (WHERE REQUIRED, APPROPRIATE, AND/OR PERMITTED BY THE OWNER), AND IS SEPARATE AND DISTINCT FROM THE "AV-NET" DEDICATED AV NETWORK PROVIDED AND INSTALLED BY DIV. 274115 FOR USE IN DISTRIBUTION OF DIGITAL AUDIO, AUDIOVISUAL, AND CONTROL SIGNALS (AS DETAILED IN THE AUDIOVISUAL CONTRACT DOCUMENTS). THE INSTALLATION AND IMPLEMENTATION OF THE BUILDING DATA "ETHERNET" NETWORK IS BEYOND DIV. 274115 SCOPE AND IS PROVIDED BY THE PROJECT TECHNOLOGY/DATA VENDOR UNDER SEPARATE SPECIFICATION. DIV. 274115 SHALL COORDINATE WITH FACILITY IT STAFF FOR CONFIGURATION AND ACCESS PARAMETERS.  
3. ALL DATA CABLING SHOWN TO BE PROVIDED BY DIV. 274115 AUDIOVISUAL CONTRACTOR UNLESS EXPLICITLY NOTED OTHERWISE.  
4. WHERE DATA CABLING IS NOTED TO BE PROVIDED BY DATA/COMM/TECHNOLOGY VENDOR, COORDINATE AS REQUIRED.  
5. ALL COPPER DATA CABLING AND CONNECTORS SHALL BE CAT6A RATED.  
6. AV CONTRACTOR SHALL VERIFY ALL ETHERNET-BASED DEVICES ASSOCIATED WITH AUDIOVISUAL SYSTEMS ARE WITHIN ETHERNET DISTANCE LIMITATIONS FOR THE FULL LENGTH OF EACH CABLE RUN, TO INCLUDE PATCH CABLE LENGTHS. COORDINATE WITH ELECTRICAL INSTALLER REGARDING PATHWAY AND CABLE ROUTING FOR MOST DIRECT ROUTE FROM DEVICE TO TERMINATION POINT.  
7. REFER TO AUDIOVISUAL INFRASTRUCTURE DRAWINGS IN THIS DRAWING SET FOR ALL DEVICE LOCATIONS.  
8. REFER TO DATA ADVISORIES FOR TECHNOLOGY/DATA VENDOR-SUPPLIED BUILDING LAN OUTLETS ASSOCIATED WITH AUDIOVISUAL DEVICE PLATES / LOCATIONS.

ADVISORY AUDIOVISUAL DATA DROP REQUIREMENTS

DEVICE TYPE	DESCRIPTION	SEE ADVISORY POWER SCHEDULE	SEE ADVISORY DATA SCHEDULE
S1	ENCLOSURE: 2-GANG, 3-1/2" DEEP BOX MOUNTING: RECESS IN WALL AT 12-0" A.F.F. PANEL: GROMMET DEVICE(S): MAIN SPEAKERS JBL CTB 1000		
V	ENCLOSURE: 1-GANG, 3-1/2" DEEP BOX MOUNTING: RECESS IN WALL AT 4-0" A.F.F. PANEL: 1-GANG VOLUME CONTROL PANEL DEVICE(S): 70V VOLUME CONTROL		
P	ENCLOSURE: 1-GANG, 3-1/2" DEEP BOX MOUNTING: RECESS IN WALL AT 4-0" A.F.F. PANEL: 1-GANG PANEL, RE: DETAILS DEVICE(S): AV SYSTEM REMOTE POWER CONTROL SWITCH		
FP1	ENCLOSURE: ACE BACKSTAGE #10102BBW 6" DEEP BACK BOX MOUNTING: RECESS IN PLATFORM AT LOCATIONS SHOWN PANEL: SEE PLATE DETAILS DEVICE(S): FLOOR POCKET WITH AUDIO INPUTS AND 120 VAC RECEPTACLE	X	
FP2	ENCLOSURE: ACE BACKSTAGE #10102BBW 6" DEEP BACK BOX MOUNTING: RECESSED IN FLOOR SHOWN PANEL: SEE PLATE DETAILS DEVICE(S): FLOOR POCKET WITH AUDIO INPUTS AND 120 VAC RECEPTACLE	X	
FP3	ENCLOSURE: ACE BACKSTAGE #10102BBW 6" DEEP BACK BOX MOUNTING: RECESSED IN FLOOR SHOWN PANEL: SEE PLATE DETAILS DEVICE(S): FLOOR POCKET WITH AUDIO INPUTS AND 120 VAC RECEPTACLE	X	
L	ENCLOSURE: FSR OWB-CPI EXTERIOR WALL BOX WITH OWB-CPI-FMB FLUSH MOUNT BRACKET MOUNTING: RECESS IN WALL AT 1'-0" A.F.F. PANEL: CUSTOM 3-GANG PLATE, RE: DETAILS DEVICE(S): 1 LINE OUTPUT JACK AND 100V AC RECEPTACLE		
WR	ENCLOSURE: WALL - MOUNTED SOUND EQUIPMENT RACK: 8 x 8 X3 NEMA TYPE 1 JUNCTION BOX CENTERED BEHIND RACK MOUNTING: BOTTOM AT 2'-1" A.F. SEE RACK ELEVATIONS FOR DETAILS PANEL: STANDARD 19" RACK MOUNTED EQUIPMENT (PROVIDE BLANK PANELS WHERE NO EQUIPMENT RESIDES) DEVICE(S): SOUND EQUIPMENT RACK	X	X
S3	ENCLOSURE: RECESSED CEILING SPEAKER BACK-CAN ASSEMBLY MOUNTING: RECESSED IN CEILING PANEL: FLUSH SPEAKER GRILLE DEVICE(S): CEILING RECESSED 70V CEILING SPEAKER		
I	ENCLOSURE: 2-GANG, 3-1/2" DEEP BOX MOUNTING: RECESS IN WALL AT 1'-0" A.F.F. PANEL: CUSTOM 2-GANG PLATE, RE: DETAILS DEVICE(S): 2 MIC INPUT JACKS	X	
C7	ENCLOSURE: 2-GANG, 3-1/2" DEEP BOX MOUNTING: RECESS IN WALL AT 4'-0" A.F.F. MOUNTED HORIZONTAL PANEL: MANUFACTURER'S ADAPTOR BRACKET DEVICE(S): TOUCH SCREEN CONTROLLER 7" DIAGONAL DISPLAY		
WL	ENCLOSURE: 2-GANG, 3-1/2" DEEP BOX MOUNTING: RECESS IN WALL AT 12-0" A.F.F. PANEL: CUSTOM 2-GANG PLATE, RE: DETAILS DEVICE(S): WIRELESS MICROPHONE ANTENNA		
CM	ENCLOSURE: 1-GANG, 3-1/2" DEEP BOX MOUNTING: RECESS IN WALL AT ELEVATIONS SHOWN ON PLAN PANEL: CUSTOM 1-GANG PLATE, RE: DETAILS DEVICE(S): CAMERA PANEL WITH AV-NET		
WAP	ENCLOSURE: 1-GANG, 3-1/2" DEEP BOX MOUNTING: RECESS IN WALL AT 18-0" A.F.F. PANEL: MANUFACTURER'S ADAPTOR BRACKET DEVICE(S): DEDICATED AUDIOVISUAL WIRELESS ACCESS POINT		
S4	ENCLOSURE: MANUFACTURER'S LOUDSPEAKER ENCLOSURE MOUNTING: RECESS IN WALL AT LOCATION SHOWN PANEL: FLUSH MOUNT LOUDSPEAKER GRILLE DEVICE(S): RECESSED LOUDSPEAKER		
SM	ENCLOSURE: 2-GANG, 3-1/2" DEEP BOX WITH 1-GANG 5/8" DEEP PLASTER RING MOUNTING: RECESSED IN CEILING PANEL: 1-GANG PLATE WITH 1 XLR FEMALE PANEL CONNECTOR DEVICE(S): SUSPENDED MICROPHONES FOR CHOIR		
BT	ENCLOSURE: 2-GANG, 3-1/2" DEEP BOX MOUNTING: RECESS IN WALL AT 4'-0" A.F.F. PANEL: 2-GANG PANEL, RE: DETAILS DEVICE(S): STEREO BLUETOOTH WIRELESS AUDIO INPUT CONNECTIVITY		
ALS	ENCLOSURE: 2-GANG, 3-1/2" DEEP BOX MOUNTING: RECESS IN WALL AT 12-0" A.F.F. PANEL: MANUFACTURER'S ADAPTOR BRACKET DEVICE(S): ASSISTIVE LISTENING SYSTEM ANTENNA		
WL2	ENCLOSURE: FSR OWB-CPI EXTERIOR WALL BOX WITH OWB-CPI-FMB FLUSH MOUNT BRACKET MOUNTING: FLUSH MOUNT IN EXTERIOR WALL AT 1'-0" A.F.F. PANEL: CUSTOM 2-GANG PLATE, RE: DETAILS DEVICE(S): WIRELESS MICROPHONE ANTENNA EXPANSION		
BR	ENCLOSURE: 3-GANG, 3-1/2" DEEP BACK BOX MOUNTING: RECESS IN WALL AT 18IN A.F.F. PANEL: CUSTOM 3-GANG PLATE, RE: DETAILS DEVICE(S): 4 NETWORK AND 2 XLR MALE CONNECTORS FOR BROADCAST VIDEO		

AUDIOVISUAL DEVICE LEGEND  
1/4" = 1'-0"



3 FLOOR POCKET DETAIL  
1 1/2" = 1'-0"



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

Final Plans for Bidding and Construction



QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH  
DIOCESE OF VICTORIA  
HOUSTON, TX

DATE ISSUED:  
06-13-2025

PROJECT NUMBER:  
1024-0623

PLAN NORTH  
TRUE NORTH

SHEET NAME  
AV DEVICE LEGEND AND POWER ADVISORY

SHEET NUMBER

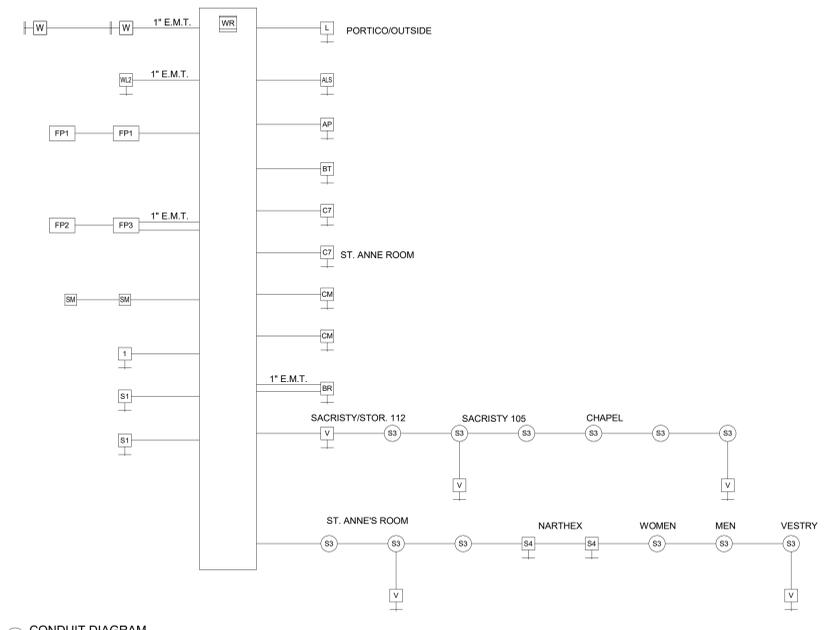
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**ELECTRICAL & CONDUIT INSTALLATION NOTES (DIV. 26)**

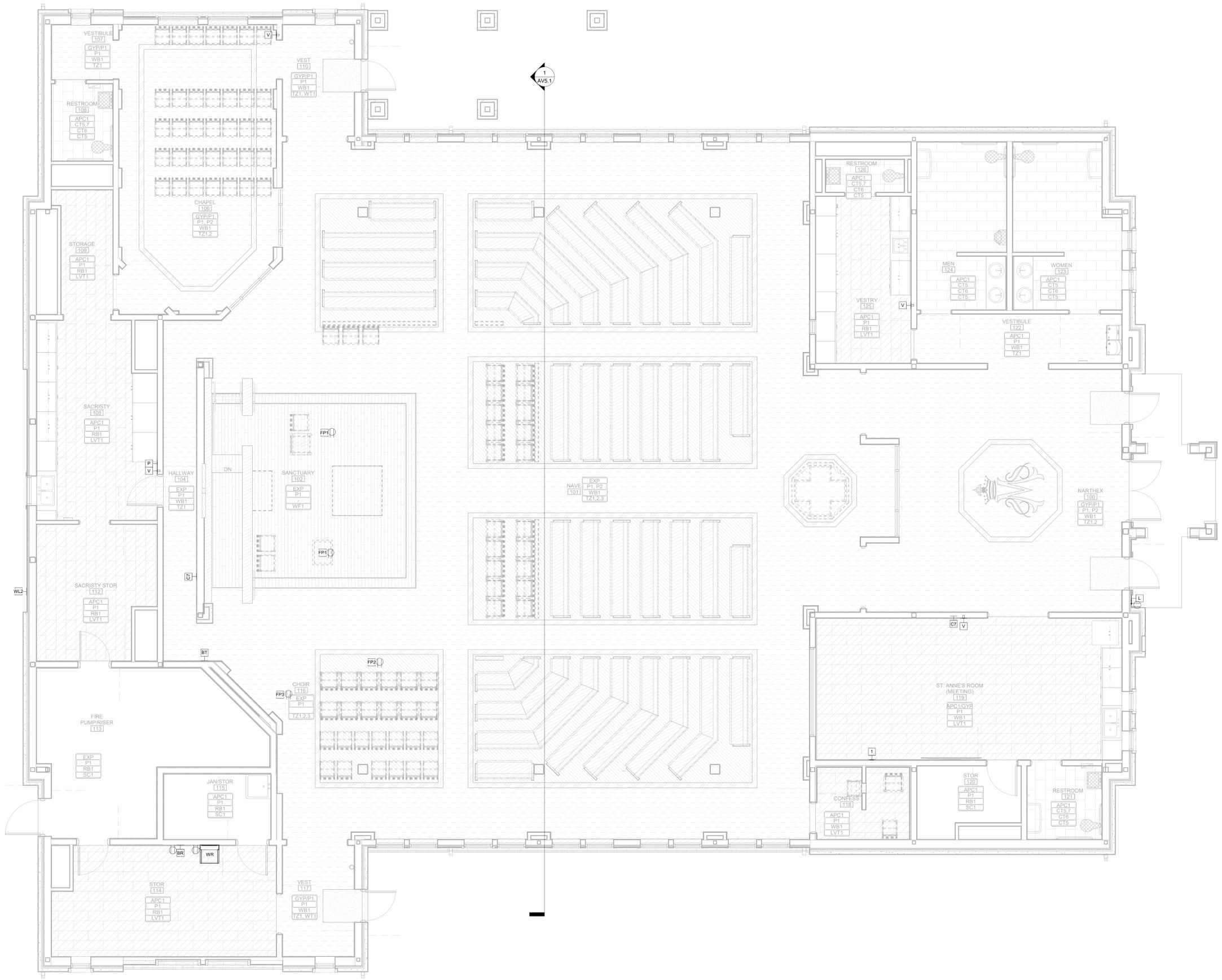
1. ALL 120VAC POWER CONDUCTORS, POWER DISTRIBUTION PANELS, JUNCTION BOXES, TERMINAL PANELS, CONDUITS, WIREWAYS, POWER RECEPTACLES AND ALL OTHER DEVICES ASSOCIATED WITH 120VAC POWER CIRCUITS SHALL BE FURNISHED, INSTALLED AND TERMINATED UNDER DIVISION 26 UNLESS OTHERWISE NOTED.
2. ALL CONDUIT SHOWN IS FOR AUDIOVISUAL AND SOUND REINFORCEMENT SYSTEMS AND IS NOT RELATED TO ANY CONDUIT FOR AC POWER.
3. ALL CONDUIT IS 3/4" EMT UNLESS OTHERWISE NOTED.
4. ALL CONDUIT CONNECTIONS SHALL BE FURNISHED WITH NYLON BUSHINGS TO PREVENT DAMAGE TO CABLES FROM BURRED OR UNEVENLY CUT CONDUIT.
5. USE INSULATED BUSHINGS TO CONNECT CONDUIT TO EQUIPMENT RACKS. TO INSULATE CONDUIT GROUND FROM EQUIPMENT RACK GROUND SYSTEM.
6. KEEP 90° BENDS TO A MINIMUM. THE CONDUIT SYSTEM SHALL NOT HAVE MORE THAN THREE 90° BENDS OR THEIR EQUIVALENT BETWEEN PULL BOXES.
7. ALL PULL BOXES AND OUTLET BOXES SHALL BE AT LEAST 3-1/2" DEEP.
8. ALL CONDUIT RUNS IN EXCESS OF 100 FEET SHALL HAVE INTERMEDIATE JUNCTION BOXES EVERY 100 FEET OR THREE BENDS, WHICHEVER COMES FIRST.
9. ALL AUDIOVISUAL SYSTEM RELATED JUNCTION BOXES SHALL REMAIN ACCESSIBLE AT ALL TIMES.
10. INSTALL NYLON PULL STRINGS IN ALL EMPTY CONDUITS.
11. CAULK OR OTHERWISE SEAL ALL PENETRATIONS THROUGH ACOUSTICAL PARTITIONS AND BARRIERS.
12. ALL PENETRATIONS THROUGH FIRE-RATED WALLS AND ASSEMBLIES SHALL BE SEALED WITH FIRESTOP MATERIAL PER APPLICABLE CODE. REFER TO DIVISION 7.
13. ELECTRICAL CONTRACTOR SHALL REFER TO ELECTRICAL DRAWINGS FOR ALL 120VAC CONDUIT SIZING.
14. ELECTRICAL CONTRACTOR SHALL REFER TO OTHER DRAWINGS FOR NON-AUDIOVISUAL SYSTEM RELATED ELECTRICAL INFORMATION FOR THESE AREAS. AUDIOVISUAL SYSTEM DRAWINGS DO NOT CONTAIN ALL ROOM ELECTRICAL REQUIREMENTS.
15. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE ALL HIGH VOLTAGE DEVICES.
16. ALL POWER CIRCUITS SHALL BE 120VAC, 20 AMP DEDICATED CIRCUITS UNLESS OTHERWISE NOTED.
17. ELECTRICAL CONTRACTOR SHALL LABEL ALL CIRCUIT BREAKER POSITIONS IN ALL BREAKER PANELS.
18. INSTALL SEPARATE DEDICATED NEUTRAL CONDUCTOR FROM POWER DISTRIBUTION PANEL FOR EACH INDIVIDUAL CIRCUIT.
19. ALLOW MINIMUM 20% SPARE BREAKERS FOR EACH POWER DISTRIBUTION PANEL.
20. 120VAC POWER TO THE EQUIPMENT RACKS SHALL BE TERMINATED INSIDE THE RACKS BY DIV. 26 TO AUDIOVISUAL SYSTEM SUBCONTRACTOR-SUPPLIED RACEWAY OUTLETS.
21. CLEARLY LABEL BREAKER PANEL DOOR "AUDIO/VISUAL SYSTEM EQUIPMENT ONLY".
22. INTEGRATED RECESSED LOUDSPEAKER ASSEMBLIES SHALL BE FURNISHED AND INSTALLED BY THE AUDIOVISUAL SYSTEMS CONTRACTOR. SHOULD SUBSTITUTE EQUIPMENT BE PROVIDED BY THE AV CONTRACTOR THAT REQUIRE THE USE OF DEDICATED LOUDSPEAKER BACK-CANS, THE AV CONTRACTOR SHALL SUPPLY SUCH DEVICES TO DIV. 26 FOR INSTALLATION. ALL OTHER ENCLOSURES AND FLOOR BOXES ASSOCIATED WITH AUDIOVISUAL SCOPES OF WORK, AS CALLED OUT IN THE AUDIOVISUAL DEVICE LEGEND, AND TO INCLUDE EXTERIOR AND SPECIALTY ENCLOSURES LISTED, SHALL BE PROVIDED AND INSTALLED UNDER DIVISION 26, UNLESS EXPLICITLY NOTED OTHERWISE.
23. REFER TO "RELATED WORK IN OTHER SECTIONS" IN AUDIOVISUAL SYSTEM SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.
24. CONDUIT SHALL BE REQUIRED BETWEEN ANY AND ALL LOUDSPEAKERS. WHERE PLENUM-RATED LOUDSPEAKER CABLE IS ALLOWED BY CODE, THIS CONSULTANT WILL CONSIDER SUBSTITUTION REQUESTS FORMALLY BY THE CONSTRUCTION TEAM, APPROVAL OF WHICH IS SUBJECT TO THE BEST INTERESTS OF THE PROJECT.
25. WIRE NOT INSTALLED IN EQUIPMENT RACKS, NOT PORTABLE, OR NOT INSTALLED IN CONDUIT SHALL BE FIRE-RATED AND MEET ALL APPLICABLE CODES.

1. ALL CONDUIT IS EMT UNLESS OTHERWISE NOTED.
2. CONDUIT SIZE IS 3/4" UNLESS OTHERWISE NOTED.
3. CONDUIT STUBBED INTO NEAREST IT ROOM OR ACCESSIBLE CABLE TRAY TO FACILITATE CONNECTION TO BUILDING DATA NETWORK. PROVIDE J-HOOKS FOR SUPPORT OF PLENUM CABLING WHERE NO CABLE TRAY EXISTS. PROVIDE FIRE-RATED PENETRATIONS THROUGH WALLS AND FLOORS, WHERE REQUIRED, PER APPLICABLE CODE. ALL CONDUIT STUB-UPS ARE 1" CONDUIT UNLESS OTHERWISE NOTED.
4. SMOOTH SWEEP RADIUS REQUIRED ON ALL CONDUIT BENDS. NO RIGID 90° BENDS SHALL BE ALLOWED.
5. FIELD-COORDINATE ALL CONDUIT ROUTING. MINIMIZE ANY EXPOSED CONDUIT. VERIFY ROUTING OF ANY EXPOSED CONDUIT WITH ARCH. PRIOR TO INSTALLATION.
6. COORDINATION REQUIRED BETWEEN ELECTRICAL AND AUDIOVISUAL REGARDING WALL/FLOOR PENETRATIONS OR CORES ASSOCIATED WITH AUDIOVISUAL SYSTEM DEVICES. ALL PENETRATIONS IN ACOUSTICALLY SENSITIVE AREAS TO BE SEALED WITH RESILIENT CAULK. PROVIDE FIRE-RATED SEALANT AS/WHERE REQUIRED BY SUPERSEDING CODE.
7. CONFORM TO ALL PROJECT REQUIREMENTS AND ALL LOCAL, OR OTHERWISE SUPERSEDING, CODES PERTAINING TO ACCEPTABLE AND/OR APPROVED MATERIALS FOR CONDUITS AND PATHWAYS INSTALLED BELOW GRADE. TO INCLUDE ACCESSORIES REQUIRED FOR MOUNTING, COUPLING, AND OTHERWISE REQUIRED FOR A COMPLETE PATHWAY SYSTEM.



1 CONDUIT DIAGRAM  
1/8" = 1'-0"

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FLOOR PLAN LEVEL ONE

**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
**DIOCESE OF VICTORIA**  
HOUSTON, TX

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DATE ISSUED:  
**06-13-2025**

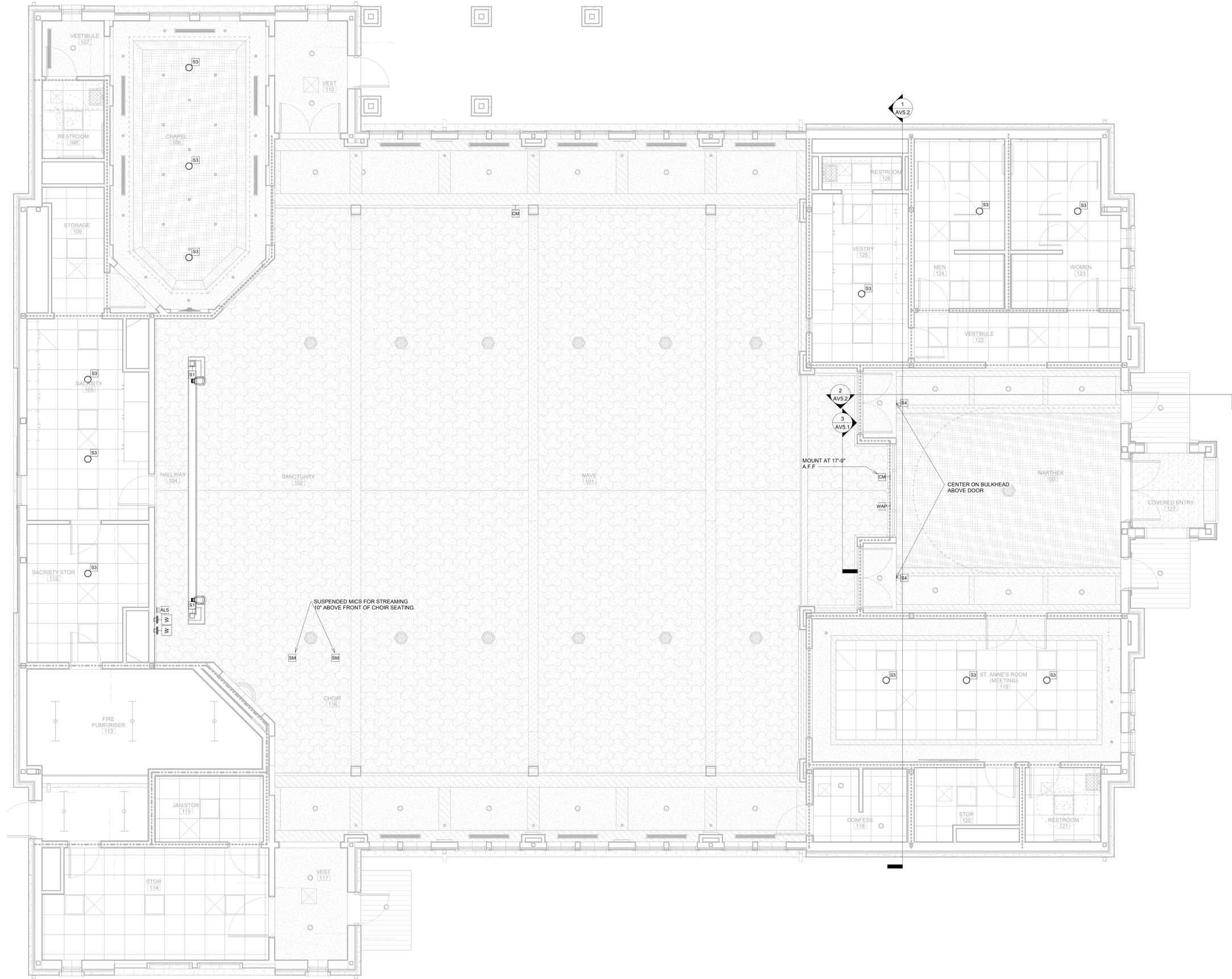
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1024-0623

PLAN NORTH TRUE NORTH  
SHEET NAME  
**AV FIRST FLOOR PLAN**

SHEET NUMBER

**AV1.1**

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

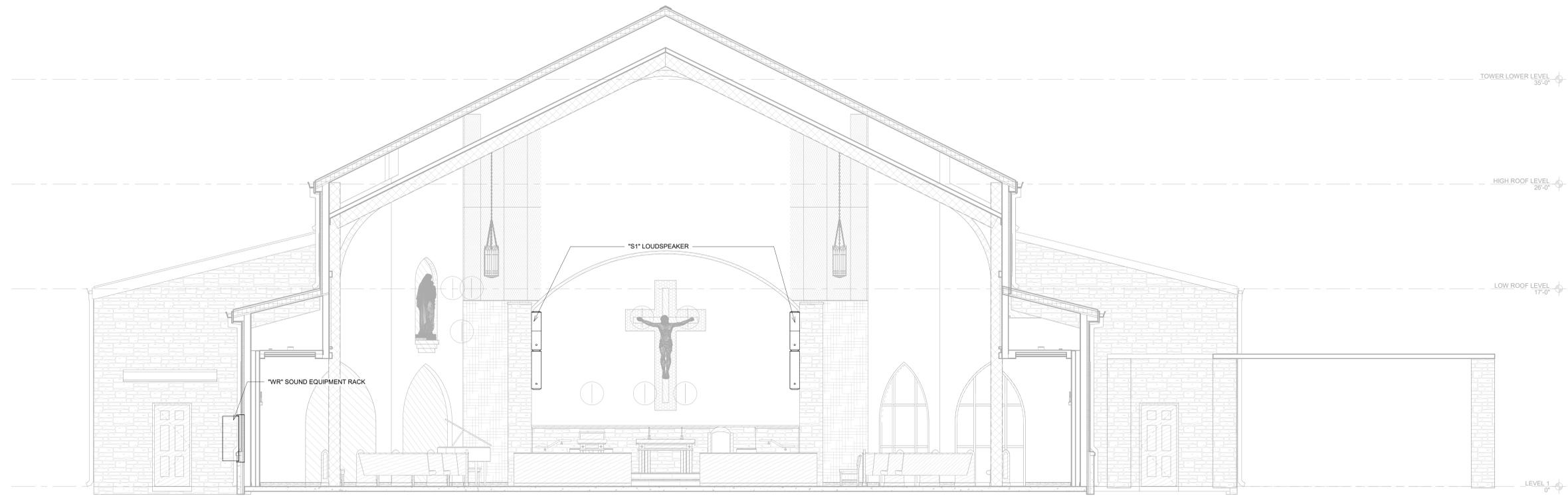
**QUEEN OF THE HOLY ROSARY CATHOLIC CHURCH**  
**DIOCESE OF VICTORIA**  
HOUSTON, TX

DATE ISSUED:  
**06-13-2025**

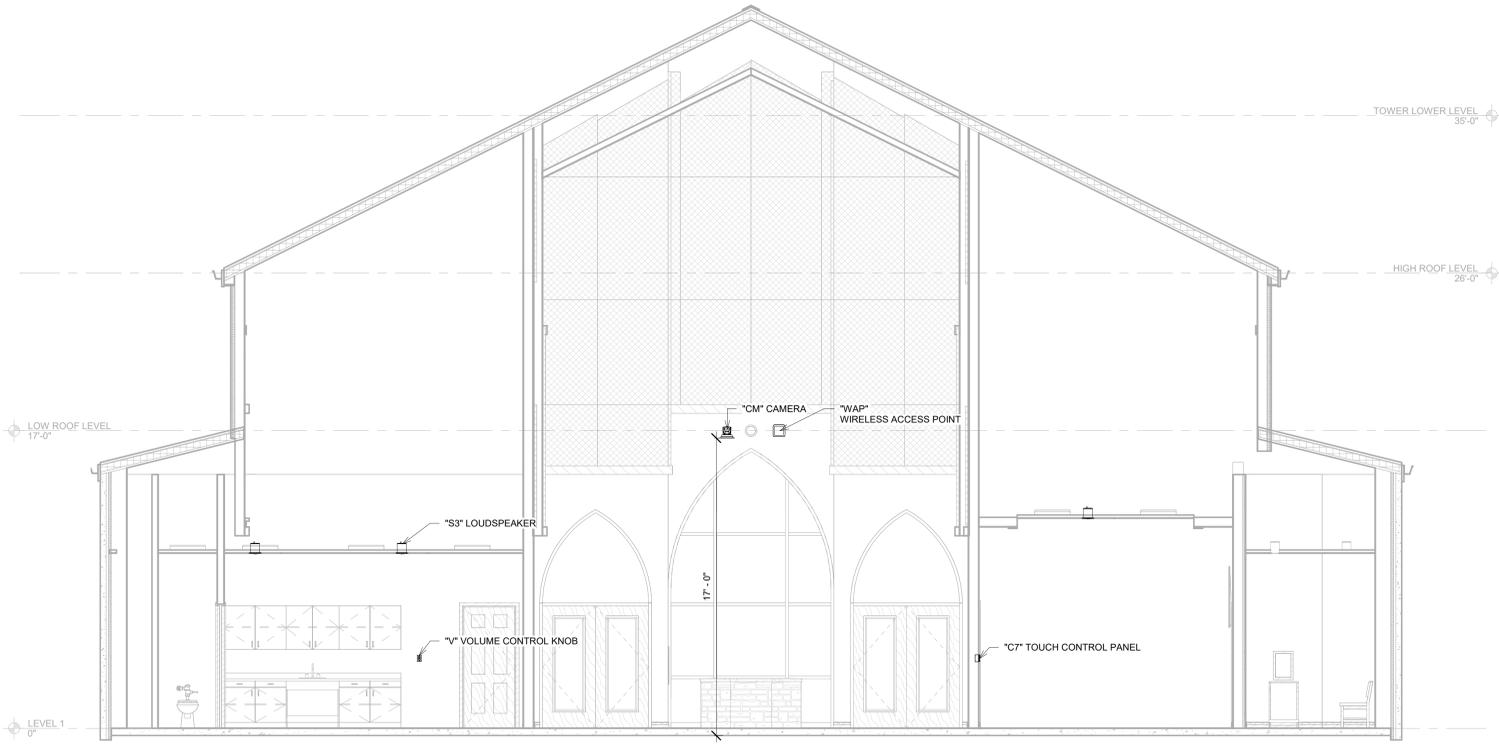
PROJECT NUMBER:  
1024-0623

PLAN NORTH TRUE NORTH  
SHEET NAME  
**AV REFLECTED  
CEILING PLAN  
-FIRST FLOOR**  
SHEET NUMBER

**AV3.1**



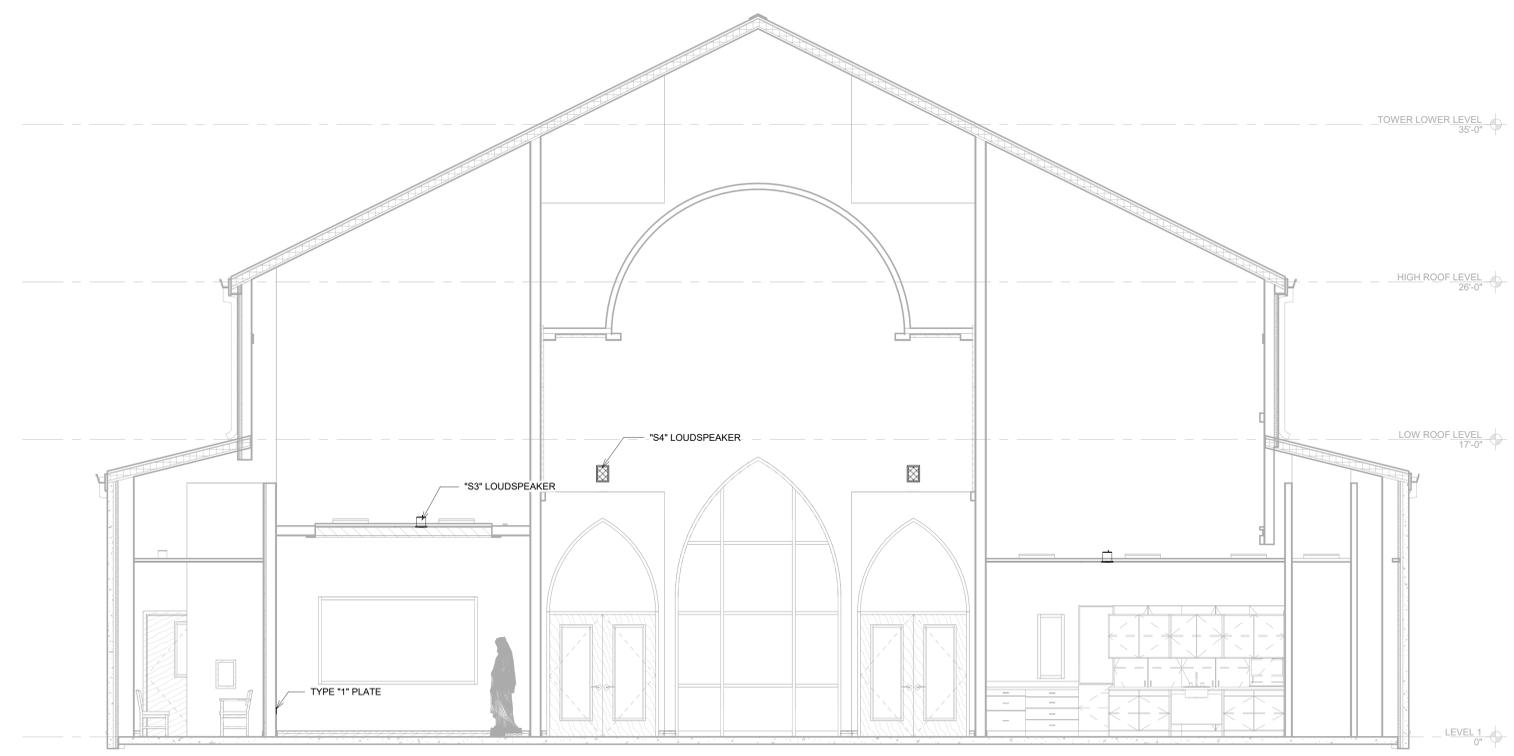
1 BUILDING SECTION - SANCTUARY  
FRONT  
1/4" = 1'-0"



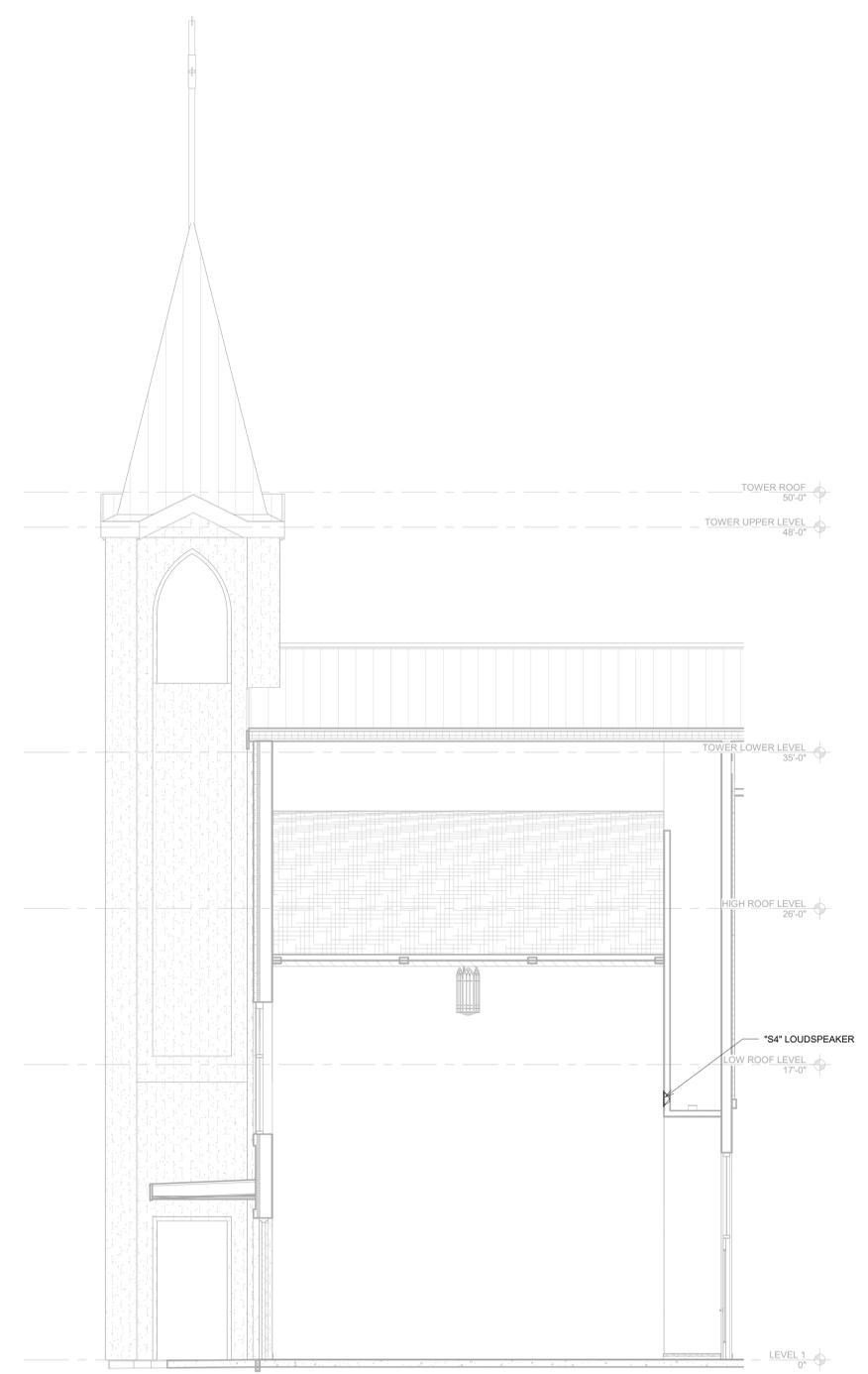
3 BUILDING SECTION NAVE REAR  
1/4" = 1'-0"

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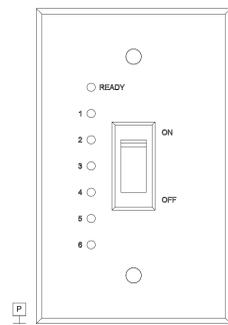
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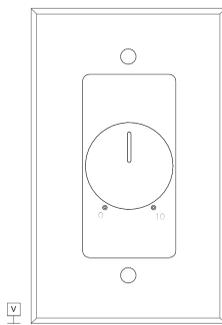
1 BUILDING SECTION - NARTHEX  
1/4" = 1'-0"



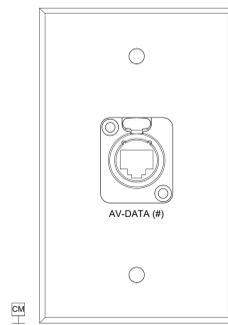
2 BUILDING SECTION - NARTHEX SIDE  
1/4" = 1'-0"



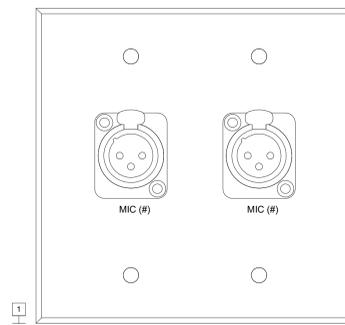
1 PLATE DETAIL TYPE - 'P' POWER CONTROL SWITCH  
12" = 1'-0"



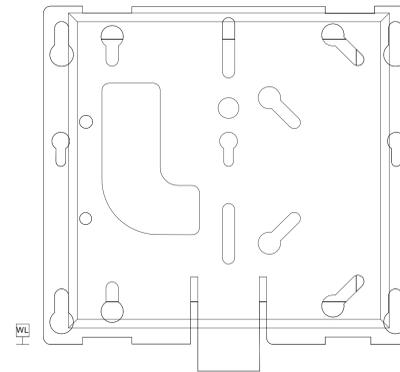
2 PLATE DETAIL - TYPE 'V' VOLUME CONTROL  
12" = 1'-0"



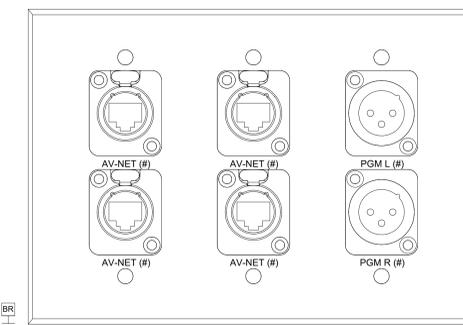
3 PLATE DETAIL - TYPE 'CM' CAMERA  
12" = 1'-0"



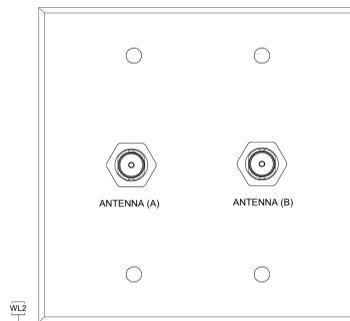
4 PLATE DETAIL - TYPE 'I1' INPUT PLATE  
12" = 1'-0"



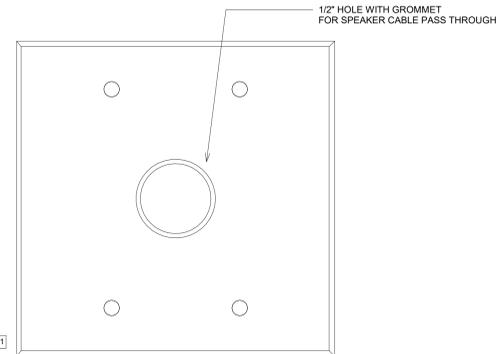
5 PLATE DETAIL - TYPE 'WL' WIRELESS MICROPHONE ANTENNA PLATE  
12" = 1'-0"



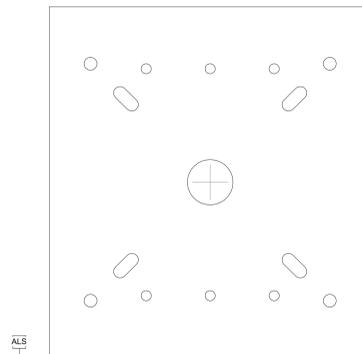
6 PLATE DETAIL - TYPE 'BR' BROADCAST VIDEO CONNECTIONS  
12" = 1'-0"



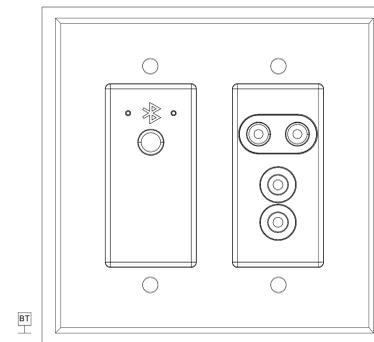
7 PLATE DETAIL - 'WL2' OUTDOOR WIRELESS ANTENNA EXPANSION  
12" = 1'-0"



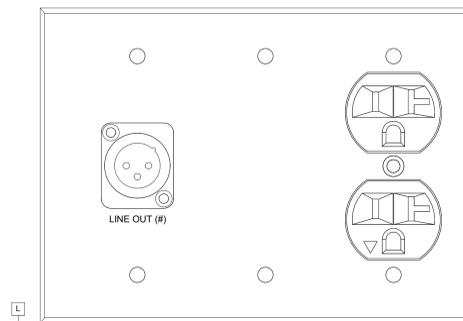
8 PLATE DETAIL - TYPE 'S1' LOUDSPEAKER CABLING PASS-THROUGH PLATE  
12" = 1'-0"



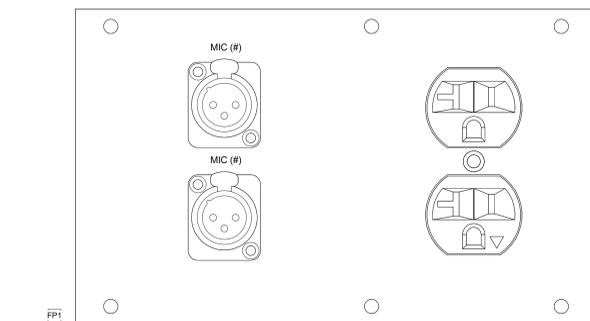
9 PLATE DETAIL - TYPE 'ALS' ANTENNA PANEL  
12" = 1'-0"



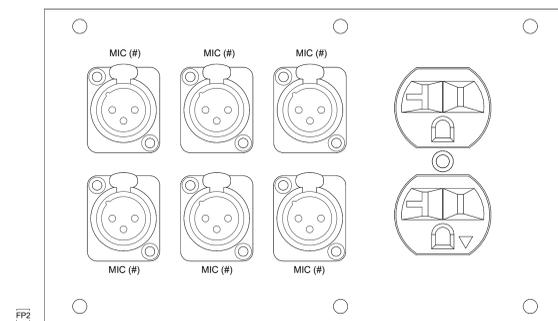
10 PLATE DETAIL - TYPE 'BT' DANTE NETWORKED AUDIO WALL PLATE  
12" = 1'-0"



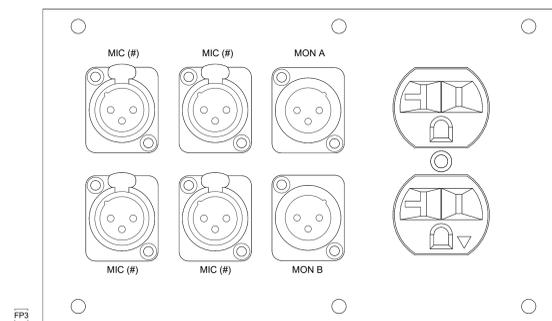
11 PLATE DETAIL - TYPE 'L' LINE OUTPUT AT EXTERIOR  
12" = 1'-0"



12 PLATE DETAIL - TYPE 'FP1' FLOOR POCKET  
12" = 1'-0"



13 PLATE DETAIL - TYPE 'FP2' FLOOR POCKET 2  
12" = 1'-0"

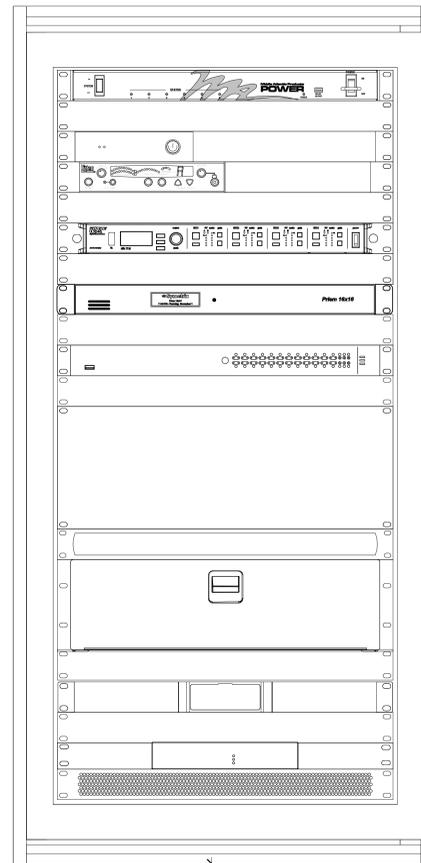


14 PLATE DETAIL - TYPE 'FP3' FLOOR POCKET 3  
12" = 1'-0"



15 PLATE DETAIL - TYPE 'C7' TOUCH CONTROL PANEL  
12" = 1'-0"

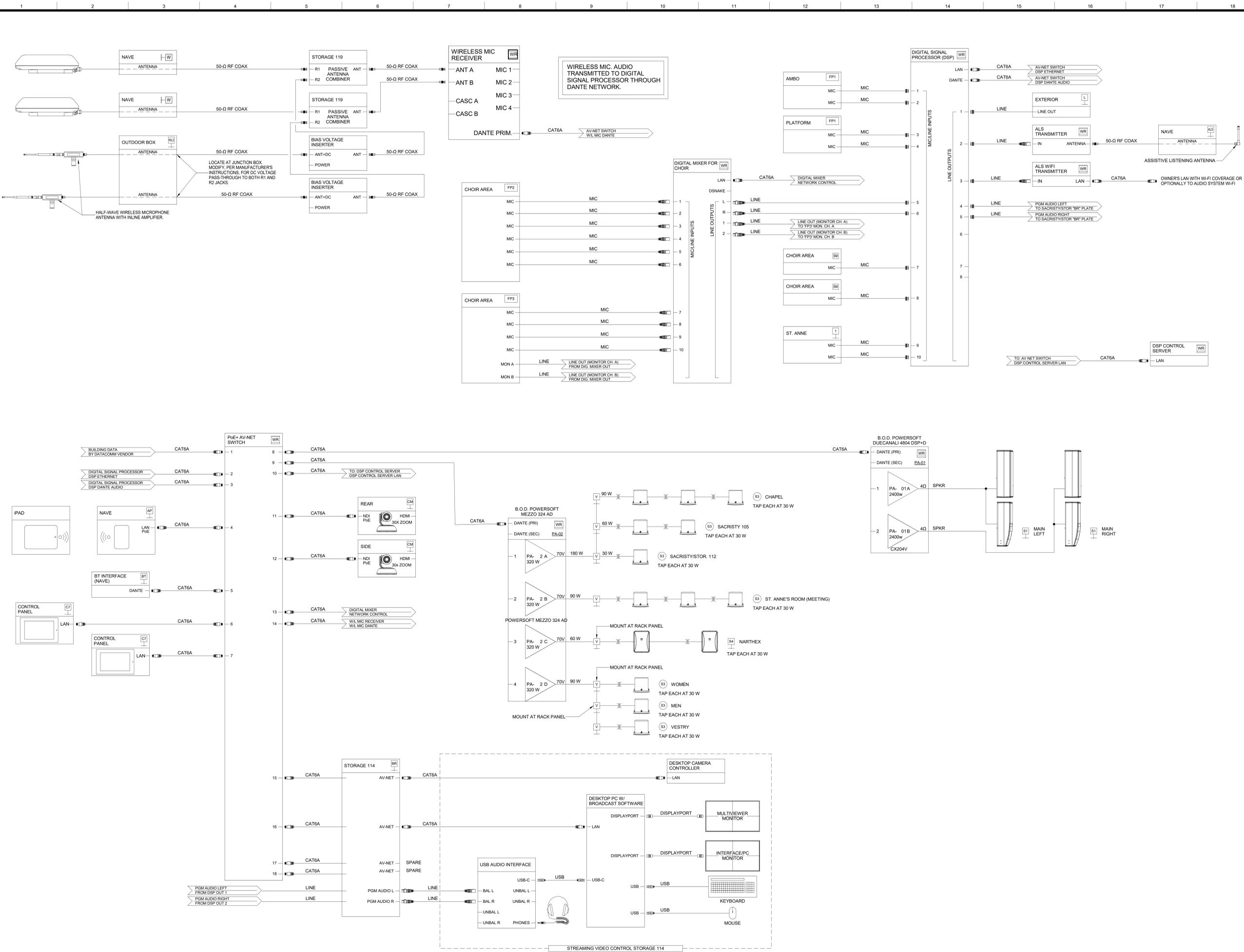
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- POWER SEQUENCER
- BLANK PANEL
- ALS WIFI TRANSMITTER
- ALS
- BLANK PANEL
- WIRELESS MIC RECEIVER
- BLANK PANEL
- DSP
- BLANK PANEL
- NETWORK SWITCH
- BLANK PANEL
- DIGITAL MIXER Qu-SB
- BRUSH GROMMET PANEL
- 3U DRAWER
- BLANK PANEL
- PA-01
- BLANK PANEL
- PA-02
- VENT PANEL

② RACK ELEVATION - 'WR' WALL RACK  
3' = 1'-0"

2'-1"



1 AV SYSTEM ONELINE DIAGRAM  
1/8" = 1'-0"

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