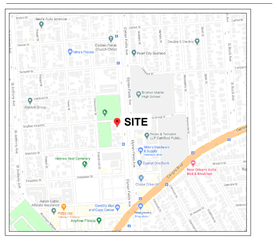
MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.

3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

VICINITY MAP NOT TO SCALE



CODES AND STANDARDS

1. THE FOLLOWING CRITERIA HAS BEEN USED IN THE PREPARATION OF THESE DOCUMENTS.

BUILDING CODE:	2015 INTERNATIONAL BUILDING CODE
MECHANICAL CODE:	2015 INTERNATIONAL MECHANICAL CODE
ELECTRICAL CODE:	2014 NATIONAL ELECTRIC CODE (NEC)
PLUMBING CODE:	2015 INTERNATIONAL PLUMBING CODE
ENERGY CODE:	2015 INTERNATIONAL ENERGY CONSERVATION CODE
LIFE SAFETY CODE:	2015 NFPA 101, LIFE SAFETY CODE

CITY OF NEW ORLEANS CITY ADOPTED CODE AMENDMENTS

LOUISIANA OFFICE OF STATE FIRE MARSHAL PUBLIC SAFETY SERVICE AMENDMENTS

DRAWING SYMBOLS

ENTRY	ROOM NAME
101	ROOM NUMBER
D1	DOOR MARK
D	WINDOW MARK
3	DRAWING NOTE
A	COLUMN LINE MARK
	DATUM MARK
3	REVISION NUMBER CLOUD AT LAST REV. ONLY

PROJECT DATA

STORIES	BUILDING	FLOOR AREA	CONSTR. TYPE	SPRINKLER SYSTEM
TWO STORIES	COMMUNITY CENTER	10,871 SQ.FT	TYPE V-B	YES

PROJECT SCOPE

NEW MASONIC LODGE CENTER

GENERAL NOTES

1. THESE NOTES SHALL APPLY UNLESS OTHERWISE INDICATED BY DRAWINGS OR SPECIFICATIONS.
2. ALL WORK INCLUDING CIVIL, MECHANICAL, PLUMBING, & ELECTRICAL SHALL BE PERFORMED IN STRICT COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, & LOCAL CODE REQUIREMENTS, AND IN ACCORDANCE WITH ACCEPTED CONSTRUCTION INDUSTRY STANDARDS.
3. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL APPLICABLE PERMITS, INSPECTIONS AND APPROVALS, INCLUDING THOSE RELATED TO BUILDING AND CONTRACTOR SIGNAGE.
4. PRIOR TO TURNING BUILDING OVER TO OWNER, REPAIR OR REPLACE ALL MATERIALS, GLASS, OR ASSEMBLIES DAMAGED OR BROKEN DURING CONSTRUCTION.
5. SMOKE DETECTORS SHALL BE HARDWIRED INTO AN AC ELECTRICAL POWER SOURCE AND SHALL BE EQUIPPED WITH BATTERY BACK-UP. SMOKE DETECTORS SHALL BE TESTED FOR COMPLIANCE UPON COMPLETION OF WORK.
6. AT ALL RATED WALLS, FLOORS AND RATED CEILINGS, ALL PLUMBING, ELECTRICAL & HVAC PENETRATIONS SHALL BE SEALED WITH APPROVED FIRESTOPPING MATERIAL.
7. SEAL ALL PENETRATIONS THRU FLOOR DECK.
8. FRAMER SHALL PROVIDE IN-WALL BLOCKING AS REQUIRED AT TOILET ACCESSORIES.
9. GC TO PROVIDE ALL MISC. STEEL AND STL. STUD SUPPORT AND HANGERS FOR COMPLETE INSTALLATION OF ALL NEW ARCHITECTURAL AND MEP SYSTEMS.
10. PROVIDE ALL ROOFING REPAIR/REPLACEMENT AS REQUIRED FOR MECHANICAL UNIT AND ELECTRICAL PENETRATIONS.
11. GENERAL CONTRACTOR SHALL SUBMIT ALL CHANGES TO PLANS, MATERIAL AND EQUIPMENT TO THE ARCHITECT AND/OR ENGINEER FOR REVIEW AND APPROVAL. THE ARCHITECT AND/OR ENGINEER SHALL THEN SUBMIT THE CHANGE REQUEST TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO THE INSTALLATION OF THE CHANGE.

ABBREVIATIONS

∠ -	ANGLE	FT.	FOOT OR FEET	REF.	REFERENCE
@ -	AT	FURR.	FURRING	REFR.	REFRIGERATOR
℄ -	CENTERLINE	GA.	GAUGE	REINF.	REINFORCING
⌀ -	DIAMETER	GAFMC	GAF MATERIALS CORP.	REQ.	REQUIRED
# -	NUMBER	GC	GENERAL CONTRACTOR	RESIL.	RESILIENT
ACOUST.	ACOUSTICAL	GALV.	GALVANIZED	RM.	ROOM
A.D.	AREA DRAIN	G.B.	GRAB BAR	R.O.	ROUGH OPENING
ADJ.	ADJUSTABLE	GYP.	GYPSUM	R&R	REMOVE AND REPLACE
A.F.F.	ABOVE FINISH FLOOR	H.B.	HOSE BIBB	S.	SOUTH
AGG.	AGGREGATE	H.C.	HOLLOW CORE	S.C.	SOLID CORE
				SCHED.	SCHEDULE
ALUM.	ALUMINUM	HDWR.	HARDWARE		
APPROX.	APPROXIMATELY	H.M.	HOLLOW METAL	SECT.	SECTION
BD.	BOARD	HORIZ.	HORIZONTAL	SHT.	SHEET
BLDG.	BUILDING	HGT.	HEIGHT	SHWR.	SHOWER
B.	BOTTOM	I.D.	INSIDE DIAMETER	SIM.	SIMILAR
BA	BUILDING AREA			SPEC.	SPECIFICATIONS
C.J.	CONTROL JOINT	INSUL.	INSULATION		
CER.	CERAMIC	INT.	INTERIOR	SQ.	SQUARE
CLG.	CEILING	JT.	JOINT	STD.	STANDARD
CKT.	CIRCUIT	KIT.	KITCHEN	STL.	STEEL
CLO.	CLOSET	LAM.	LAMINATE	STOR.	STORAGE
				SUSP.	SUSPEND
CLR.	CLEAR	LAV.	LAVATORY		
COL.	COLUMN	LKR.	LOCKER	SYM.	SYMMETRICAL
CONSTR.	CONSTRUCTION	LT.	LIGHT	TRD.	TREAD
CONT.	CONTINUOUS	LTG.	LIGHTING	T.C.	TOP OF CURB
CTR.	CENTER	M.V.D.	MANUAL VOLUME DAMPER	TELE.	TELEPHONE
				T&G	TONGUE & GROOVE
DBL.	DOUBLE	MAX.	MAXIMUM		
DTL.	DETAIL	MECH.	MECHANICAL	THK.	THICK
DIA.	DIAMETER	MEMB.	MEMBRANE	T.P.	TOP OF PAVEMENT
DIM.	DIMENSION	MTL.	METAL	T.V.	TELEVISION
DN.	DOWN	MFR.	MANUFACTURER	T.W.	TOP OF WALL
				TPO.	THERMOPLASTIC OLEFIN
D.S.	DOWNSPOUT	MIN.	MINIMUM	TYP.	TYPICAL
DWR.	DRAWER	MISC.	MISCELLANEOUS		
DWG.	DRAWING	M.O.	MASONRY OPENING	UNF.	UNFINISHED
E.	EAST	MNT.	MOUNT	U.N.O.	UNLESS NOTED OTHERWISE
EA.	EACH	MTD.	MOUNTED	VERT.	VERTICAL
				VEST.	VESTIBULE
E.J.	EXPANSION JOINT	N.	NORTH	W.	WEST
ELEV.	ELEVATION	N.I.C.	NOT IN CONTRACT		
ELEC.	ELECTRICAL	NO.	NUMBER	W/	WITH
E.P.	ELECTRICAL PANELBOARD	NOM.	NOMINAL	W.C.	WATER CLOSET
EQ.	EQUAL	N.T.S.	NOT TO SCALE	WD.	WOOD
				W/O	WITHOUT
EQUIP.	EQUIPMENT	O.C.	ON CENTER	WP.	WATERPROOF
EXIST.	EXISTING	O.D.	OUTSIDE DIAMETER		
EXT.	EXTERIOR	OPH.	OPPOSITE HAND	WSCT.	WAINSCOT
F.D.	FLOOR DRAIN	OPP.	OPPOSITE	WT.	WEIGHT
F.E.	FIRE EXTINGUISHER	PL.	PLATE		
FIN.	FINISH	PLAS.	PLASTIC		
FL.	FLOOR	PLYWD.	PLYWOOD		
FLASH.	FLASHING	PR.	PAIR		
FLUOR.	FLUORESCENT	PVC	POLYVINYL CHLORIDE		
F.O.C.	FACE OF CONCRETE	R.	RADIUS		
F.O.S.	FACE OF STUD	R.D.	ROOF DRAIN		

INDEX OF DRAWINGS

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PROJECT CONTACTS

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27712
STATE OF TEXAS
04-06-21

COVER SHEET

MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

DATE	DESCRIPTION	BY

SCALE:
AS NOTED

PROJECT NO.
083-01

SHEET NO.
CS

CHAPTER 3: BUILDING BLOCKS

302 Floor or Ground Surfaces

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture.

Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed edge. Carpet edge trim shall comply with 303.

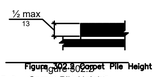


Figure 302.2 Carpet Pile Height

302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

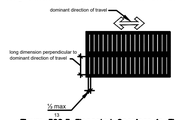


Figure 302.3 Elongated Openings in Floor or Ground Surfaces

303 Changes in Level

303.2 Vertical Changes in Level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.

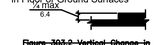


Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

Figure 303.3 Beveled Change in Level

304 Turning Space

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

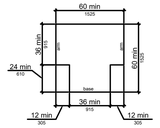


Figure 304.3.2 T-Shaped Turning Space

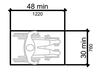


Figure 305.3 Clear Floor or Ground Space

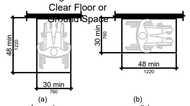


Figure 305.5 Position of Clear Floor or Ground Space

305.7.1 Forward Approach. Alcove shall be 36 inches (915 mm) wide minimum where the depth exceeds 24 inches (610 mm).

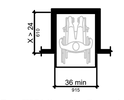


Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

305.7.2 Parallel Approach. Alcove shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

306 Knee and Toe Clearance

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

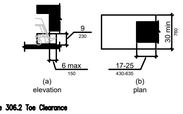


Figure 306.2 Toe Clearance

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

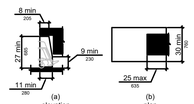


Figure 306.3 Knee Clearance

307 Protruding Objects

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

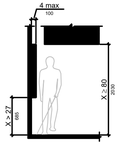


Figure 307.2 Limits of Protruding Objects

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the finish floor or ground.

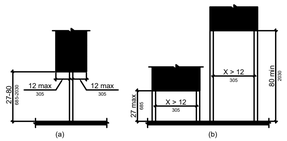


Figure 307.3 Post-Mounted Protruding Objects

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

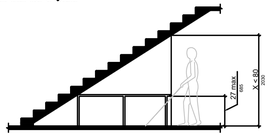


Figure 307.4 Vertical Clearance

308 Reach Ranges

Children's Reach Ranges

Forward or Side Reach	High (maximum)	Low (minimum)
Ages 3 and 4	36 in (915 mm)	20 in (510 mm)
Ages 5 through 8	40 in (1015 mm)	18 in (455 mm)
Ages 9 through 12	44 in (1120 mm)	16 in (405 mm)

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

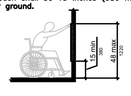


Figure 308.2.2 Obstructed High Forward Reach

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

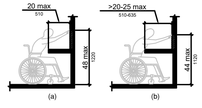
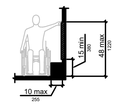


Figure 308.3.1 Unobstructed Side Reach

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.



308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

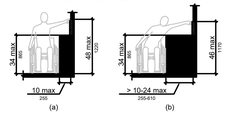


Figure 308.3.2 Obstructed High Side Reach

309 Operable Parts

309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided.

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308.

309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

CHAPTER 4: ACCESSIBLE ROUTES

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

Advisory 402.2 Components. Walking surfaces must have running slopes not steeper than 1:20; see 403.3. Other components of accessible routes, such as ramps (405) and curb ramps (406), are permitted to be more steeply sloped.

403 Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

Figure 403.5.1 Clear Width of an Accessible Route

403.5.2 Clear Width of Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

Figure 403.5.2 Clear Width of Turn

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum.

404 Doors, Doorways, and Gates

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

Figure 404.2.3 Clear Width of Doorways

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (405 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

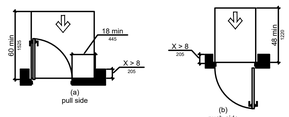


Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

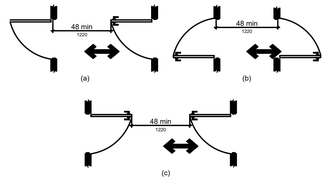


Figure 404.2.6 Doors in Series and Gates in Series

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:

1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.

2. Sliding or folding doors: 5 pounds (22.2 N) maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Ports creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.

404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

404.3 Automatic and Power-Assisted Doors and Gates. Automatic doors and automatic gates shall comply with 404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter 1). Low-energy and power-assisted doors shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

404.3.2 Maneuvering Clearance. Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with 404.2.4.

404.3.7 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

405 Ramps

405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

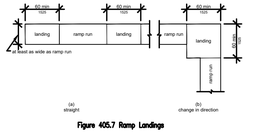


Figure 405.7 Ramp Landings

405.7.1 Slope. Landings shall have slope no steeper than 1:48. Changes in level are not permitted.

405.7.2 Width. The landing clear width shall be at least as wide as the widest ramp run leading to the landing.

405.7.3 Length. The landing clear length shall be 60 inches (1525 mm) long minimum.

405.7.4 Change in Direction. Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum.

405.7.5 Doorways. Where doorways are located adjacent to a ramp landing, maneuvering clearances required by 404.2.4 and 404.3.2 shall be permitted to overlap the required landing

405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.

405.9 Edge Protection. Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

Figure 405.9.1 Extended Floor or Ground Surface Edge Protection

405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

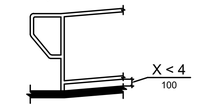


Figure 405.9.2 Curb or Barrier Edge Protection

406 Curb Ramps

406.1 General. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.

406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

406.3 Sides of Curb Ramps. Where provided, curb ramp flares shall not be steeper than 1:10.

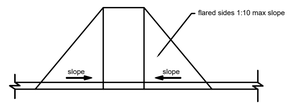


Figure 406.3 Sides of Curb Ramps

406.4 Landings. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.

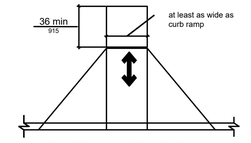


Figure 406.4 Landings at the Top of Curb Ramps

406.5 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.

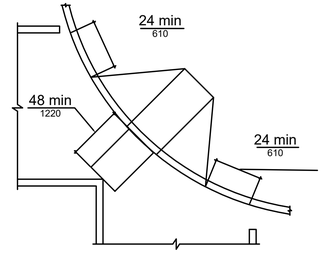


Figure 406.6 Diagonal or Corner Type Curb Ramps

406.7 Islands. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. Each curb ramp shall have a level area 48 inches (1220 mm) long minimum by 36 inches (915 mm) wide minimum at the top of the curb ramp in the part of the island intersected by the crossings. Each 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum area shall be oriented so that the 48 inch (1220 mm) minimum length is in the direction of the running slope of the curb ramp it serves. The 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum areas and the accessible route shall be permitted to overlap.

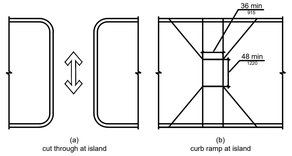


Figure 406.7 Islands in Crossings

DRAWN BY: DP
CHECKED BY: DP

DP DESIGNS
& DEVELOPMENT, LLC
214-675-9175
DANIEL@DP-DESIGNS.CO

REGISTERED ARCHITECT
JOHNNY LIMONES
27712
STATE OF TEXAS
04-06-21

ADA STANDARDS

MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

DATE	DESCRIPTION	BY

SCALE:
AS NOTED

PROJECT NO.
083-01

SHEET NO.
ADA1

407 Elevators

407.1 General. Elevators shall comply with 407 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

EXCEPTION: Existing conditions don't have to comply

407.2.1.2 Size. Call buttons shall be 3/4 inch (19 mm) minimum in the smallest dimension.

407.2.2.1 Visible and Audible Signals. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.

407.2.2.2 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the finish floor or ground. The visible signal elements shall be 2 1/2 inches (64 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call button.

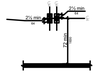


Figure 407.2.2.2 Visible Hall Signals

407.2.3.1 Floor Designation. Floor designations complying with 703.2 and 703.4.1 shall be provided on both jambs of elevator hoistway entrances. Floor designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum. A tactile star shall be provided on both jambs at the main entry level.

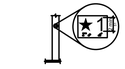


Figure 407.2.3.1 Floor Designations on Jambs of Elevator Hoistway Entrances

407.2.3.2 Car Designations. Destination-oriented elevators shall provide tactile car identification complying with 703.2 on both jambs of the hoistway immediately below the floor designation. Car designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum.

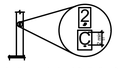


Figure 407.2.3.2 Car Designations on Jambs of Destination-Oriented Elevator Hoistway Entrances

407.3.3.1 Height. The device shall be activated by sensing an obstruction passing through the opening at 5 inches (125 mm) nominal and 29 inches (735 mm) nominal above the finish floor.

407.3.3.3 Duration. Door reopening devices shall remain effective for 20 seconds minimum.

407.3.4 Door and Signal Timing. The minimum acceptable time from notification that a car is answering a call or notification of the car assigned at the means for the entry of destination information until the doors of that car start to close shall be calculated from the following equation:

T = D/(1.5 ft/s) or T = D/(455 mm/s) + 5 seconds minimum where T equate the total time in seconds and D equals the distance (in feet or millimeters) from the point in the lobby or corridor 60 inches (1525 mm) directly in front of the farthest call button controlling that car to the centerline of its hoistway door.

407.3.5 Door Delay. Elevator doors shall remain fully open in response to a car call for 3 seconds

407.3.6 Width. The width of elevator doors shall comply with Table 407.4.1.

407.4 Elevator Car Requirements. Elevator cars shall comply with 407.4.

407.4.1 Car Dimensions. Inside dimensions of elevator cars and clear width of elevator doors shall comply with Table 407.4.1.

Figure 407.4.1 Elevator Car Dimensions

407.4.3 Platform to Hoistway Clearance. The clearance between the car platform sill and the edge of any hoistway landing shall be 1 1/4 inch (32 mm) maximum.

407.4.4 Leveling. Each car shall be equipped with a self-leveling feature that will automatically bring and maintain the car at floor landings within a tolerance of 1/2 inch (13 mm) under rated loading to zero loading conditions.

407.4.5 Illumination. The level of illumination at the car controls, platform, car threshold and car landing sill shall be 5 foot candles (54 lux) minimum.

407.4.6 Elevator Car Controls. Where provided, elevator car controls shall comply with 407.4.6 and 308.4.

407.4.6.1 Location. Controls shall be located within one of the reach ranges specified in 308.

407.4.6.2 Buttons. Car control buttons with floor designations shall comply with 407.4.6.2 and shall be raised or flush.

407.4.6.2.1 Size. Buttons shall be 3/4 inch (19 mm) minimum in their smallest dimension.

407.4.6.4.1 Height. Emergency control buttons shall have their centerlines 35 inches (890 mm) minimum above the finish floor.

407.4.7.1.1 Type. Control buttons shall be identified by tactile characters complying with 703.2.

407.4.7.1.3 Symbols. The control button for the emergency stop, alarm, door open, door close, main entry floor, and phone, shall be identified with tactile symbols as shown in Table 407.4.7.1.3.

407.4.8.1.1 Size. Characters shall be 1/2 inch (13 mm) high minimum.

407.4.8.2.2 Signal Level. The verbal annunciator shall be 10 dB minimum above ambient, but shall not exceed 80 dB, measured at the annunciator.

407.4.8.2.3 Frequency. The verbal annunciator shall have a frequency of 300 Hz minimum to 3000 Hz maximum.

408 Limited-Use/Limited-Application Elevators

408.1 General. Limited-use/limited-application elevators shall comply with 408 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

408.2 Elevator Landings. Landings serving limited-use/limited-application elevators shall comply with 408.2.

408.2.1 Call Buttons. Elevator call buttons and keypads shall comply with 407.2.1.

408.2.2 Hall Signals. Hall signals shall comply with 407.2.2.

408.2.3 Hoistway Signs. Signs at elevator hoistways shall comply with 407.2.3.1.

408.3 Elevator Doors. Elevator hoistway doors shall comply with 408.3.

408.3.1 Sliding Doors. Sliding hoistway and car doors shall comply with 407.3.1 through 407.3.3 and 408.4.1.

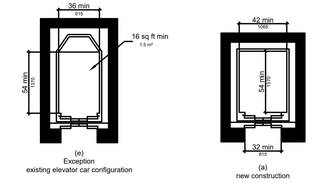
408.3.2 Swinging Doors. Swinging hoistway doors shall open and close automatically and shall comply with 404, 407.3.2 and 408.3.2.

408.3.2.1 Power Operation. Swinging doors shall be power-operated and shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

408.3.2.2 Duration. Power-operated swinging doors shall remain open for 20 seconds minimum when activated.

408.4 Elevator Cars. Elevator cars shall comply with 408.4.

408.4.1 Car Dimensions and Doors. Elevator cars shall provide a clear width 42 inches (1065 mm) minimum and a clear depth 54 inches (1370 mm) minimum. Car doors shall be positioned at the narrow ends of cars and shall provide 32 inches (815 mm) minimum clear width.



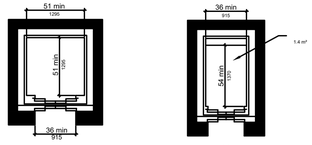


Figure 408.4.1 Limited-Use/Limited-Application (LULA) Elevator Car Dimensions

408.4.2 Floor Surfaces. Floor surfaces in elevator cars shall comply with 302 and 303.

408.4.3 Platform to Hoistway Clearance. The platform to hoistway clearance shall comply with 407.4.3.

408.4.4 Leveling. Elevator car leveling shall comply with 407.4.4.

408.4.5 Illumination. Elevator car illumination shall comply with 407.4.5.

408.4.6 Car Controls. Elevator car controls shall comply with 407.4.6. Control panels shall be centered on a side wall.

408.4.7 Designations and Indicators of Car Controls. Designations and indicators of car controls shall comply with 407.4.7.

408.4.8 Emergency Communications. Car emergency signaling devices complying with 407.4.9 shall be provided.

409 Private Residence Elevators

409.1 General. Private residence elevators that are provided within a residential dwelling unit required to provide mobility features complying with 809.2 through 809.4 shall comply with 409 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

409.2 Call Buttons. Call buttons shall be 3/4 inch (19 mm) minimum in the smallest dimension and shall comply with 309.

409.3 Elevator Doors. Hoistway doors, car doors, and car gates shall comply with 409.3 and 404.

409.3.1 Power Operation. Elevator car and hoistway doors and gates shall be power operated and shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1). Power operated doors and gates shall remain open for 20 seconds minimum when activated.

409.3.2 Location. Elevator car doors or gates shall be positioned at the narrow end of the clear floor spaces required by 409.4.1.

409.4 Elevator Cars. Private residence elevator cars shall comply with 409.4.

409.4.1 Inside Dimensions of Elevator Cars. Elevator cars shall provide a clear floor space of 36 inches (915 mm) minimum by 48 inches (1220 mm) minimum and shall comply with 305.

409.4.2 Floor Surfaces. Floor surfaces in elevator cars shall comply with 302 and 303.

409.4.3 Platform to Hoistway Clearance. The clearance between the car platform and the edge of any landing sill shall be 1 1/2 inch (38 mm) maximum.

409.4.4 Leveling. Each car shall automatically stop at a floor landing within a tolerance of 1/2 inch (13 mm) under rated loading to zero loading conditions.

409.4.5 Illumination Levels. Elevator car illumination shall comply with 407.4.5.

409.4.6 Car Controls. Elevator car control buttons shall comply with 409.4.6, 309.3, 309.4, and shall be raised or flush.

409.4.6.1 Size. Control buttons shall be 3/4 inch (19 mm) minimum in their smallest dimension.

409.4.6.2 Location. Control panels shall be on a side wall, 12 inches (305 mm) minimum from any adjacent wall.

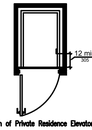


Figure 409.4.6.2 Location of Private Residence Elevator Control Panel

409.4.7.

409.4.7 Emergency Communications. Emergency two-way communication systems shall comply with

409.4.7.1 Type. A telephone and emergency signal device shall be provided in the car.

409.4.7.2 Operable Parts. The telephone and emergency signaling device shall comply with 309.3 and 309.4.

409.4.7.3 Compartment. If the telephone or device is in a closed compartment, the compartment door hardware shall comply with 309.

409.4.7.4 Cord. The telephone cord shall be 29 inches (735 mm) long minimum.

410 Platform Lifts

410.1 General. Platform lifts shall comply with ASME A18.1 (1999 edition or 2003 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1). Platform lifts shall not be attendant-operated and shall provide unassisted entry and exit from the lift.

Advisory 410.1 General. Inclined stairway chairlifts and inclined and vertical platform lifts are available for short-distance vertical transportation. Because an accessible route requires an 80 inch (2030 mm) vertical clearance, care should be taken in selecting lifts as they may not be equally suitable for use by people using wheelchairs and people standing. If a lift does not provide 80 inch (2030 mm) vertical clearance, it cannot be considered part of an accessible route in new construction.

The ADA and other Federal civil rights laws require that accessible features be maintained in working order so that they are accessible to and usable by those people they are intended to benefit. Building owners are reminded that the ASME A18 Safety Standard for Platform Lifts and Stairway Chairlifts requires routine maintenance and inspections. Isolated or temporary interruptions in service due to maintenance or repairs may be unavoidable; however, failure to take prompt action to effect repairs could constitute a violation of Federal laws and these requirements.

410.2 Floor Surfaces. Floor surfaces in platform lifts shall comply with 302 and 303.

410.3 Clear Floor Space. Clear floor space in platform lifts shall comply with 305.

410.4 Platform to Runway Clearance. The clearance between the platform sill and the edge of any runway landing shall be 1 inch (32 mm) maximum.

410.5 Operable Parts. Controls for platform lifts shall comply with 309.

410.6 Doors and Gates. Platform lifts shall have low-energy power-operated doors or gates complying with 404.3. Doors shall remain open for 20 seconds minimum. End doors and gates shall provide a clear width 32 inches (815 mm) minimum. Side doors and gates shall provide a clear width 42 inches (1065 mm) minimum.

EXCEPTION: Platform lifts serving two landings maximum and having doors or gates on opposite sides shall be permitted to have self-closing manual doors or gates.

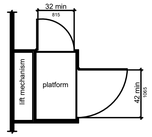


Figure 410.6 Platform Lift Doors and Gates

501 General

501.1 Scope. The provisions of Chapter 5 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

502 Parking Spaces

502.1 General. Car and van parking spaces shall comply with 502. Where parking spaces are marked with lines, width measurements of parking spaces and access aisles shall be made from the centerline of the markings.

EXCEPTION: Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.

502.2 Vehicle Spaces. Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.

EXCEPTION: Van parking spaces shall be permitted to be 96 inches (2440 mm) wide minimum where the access aisle is 96 inches (2440 mm) wide minimum.

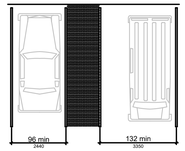


Figure 502.2 Vehicle Parking Spaces

502.3 Access Aisle. Access aisles serving parking spaces shall comply with 502.3. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.

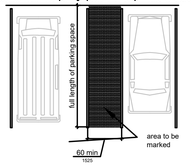


Figure 502.3 Parking Space Access Aisle

502.3.1 Width. Access aisles serving car and van parking spaces shall be 60 inches (1525 mm) wide minimum.

502.3.2 Length. Access aisles shall extend the full length of the parking spaces they serve.

502.3.3 Marking. Access aisles shall be marked so as to discourage parking in them.

502.3.4 Location. Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking space except for angled van parking spaces which shall have access aisles located on the passenger side of the parking spaces.

502.4 Floor or Ground Surfaces. Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted. EXCEPTIONS: Slopes not steeper than 1:48 shall be permitted.

502.5 Vertical Clearance. Parking spaces for vans and access aisles and vehicular routes serving them shall provide a vertical clearance of 98 inches (2490 mm) minimum.

502.6 Identification. Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign.

502.7 Relationship to Accessible Routes. Parking spaces and access aisles shall be designed so that cars and vans, when parked, cannot obstruct the required clear width of adjacent accessible routes.

503 Passenger Loading Zones

503.2 Vehicle Pull-Up Space. Passenger loading zones shall provide a vehicular pull-up space 96 inches (2440 mm) wide minimum and 20 feet (6100 mm) long minimum.

503.3 Access Aisle. Passenger loading zones shall provide access aisles complying with 503 adjacent to the vehicle pull-up space. Access aisles shall adjoin an accessible route and shall not overlap the vehicular way.

503.3.1 Width. Access aisles serving vehicle pull-up spaces shall be 60 inches (1525 mm) wide minimum.

503.3.2 Length. Access aisles shall extend the full length of the vehicle pull-up spaces they serve.

503.3.3 Marking. Access aisles shall be marked so as to discourage parking in them.

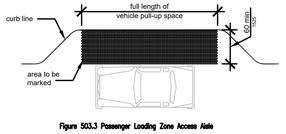


Figure 503.3 Passenger Loading Zone Access Aisle

503.4 Floor and Ground Surfaces. Vehicle pull-up spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the vehicle pull-up space they serve. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

503.5 Vertical Clearance. Vehicle pull-up spaces, access aisles serving them, and a vehicular route from an entrance to the passenger loading zone, and from the passenger loading zone to a vehicular exit shall provide a vertical clearance of 114 inches (2895 mm) minimum.

504 Stairways

504.1 General. Stairs that are part of the means of egress is required to comply with 504

504.2 Treads and Risers. All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4 inches (100 mm) high minimum and 7 inches (180 mm) high maximum. Treads shall be 11 inches (280 mm) deep minimum.

504.3 Open Risers. Open risers are not permitted.

504.4 Tread Surface. Stair treads shall comply with 302. Changes in level are not permitted.

504.5 Nosings. The radius of curvature at the leading edge of the tread shall be 1/2 inch (13 mm) maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 1 1/2 inches (38 mm) maximum over the tread below.

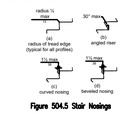


Figure 504.5 Stair Nosings

504.6 Handrails. Stairs shall have handrails complying with 505.

504.7 Wet Conditions. Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water.

505 Handrails

505.1 General. Handrails provided along walking surfaces complying with 403, required at ramps complying with 405, and required at stairs complying with 504 shall comply with 505.

Advisory 505.1 General. Handrails are required on ramp runs with a rise greater than 6 inches (150 mm) (see 405.8) and on certain stairways (see 504). Handrails are not required on walking surfaces with running slopes less than 1:20. However, handrails are required to comply with 505 when they are provided on walking surfaces with running slopes less than 1:20 (see 403.6). Sections 505.2, 505.3, and 505.10 do not apply to handrails provided on walking surfaces with running slopes less than 1:20 as these sections only reference requirements for ramps and stairs.

505.2 Where Required. Handrails shall be provided on both sides of stairs and ramps.

505.3 Continuity. Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs.

505.4 Height. Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.

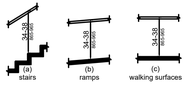


Figure 505.4 Handrail Height

505.5 Clearance. Clearance between handrail gripping surfaces and adjacent surfaces shall be 1 1/2 inches (38 mm) minimum.

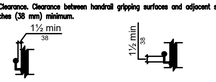


Figure 505.5 Handrail Clearance Figure 505.6 Horizontal Projections Below Gripping Surface

505.6 Gripping Surface. Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1 1/2 inches (38 mm) minimum below the bottom of the handrail gripping surface.

505.7.1 Circular Cross Section. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

505.7.2 Non-Circular Cross Sections. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum.

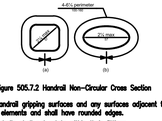


Figure 505.7.2 Handrail Non-Circular Cross Section

505.8 Surfaces. Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements and shall have rounded edges.

505.9 Fittings. Handrails shall not rotate within their fittings.

505.10 Handrail Extensions. Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with 505.10.

505.10.1 Top and Bottom Extension at Ramps. Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.

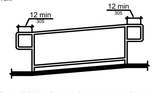


Figure 505.10.1 Top and Bottom Handrail Extension at Ramps

505.10.2 Top Extension at Stairs. At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

Figure 505.10.2 Top Handrail Extension at Stairs

Figure 505.10.3 Bottom Handrail Extension at Stairs

505.10.3 Bottom Extension at Stairs. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

602 Drinking Fountains

602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 306 shall be provided.

EXCEPTION: A parallel approach complying with 305 shall be permitted at units for children's use where the spout is 30 inches (760 mm) maximum above the finish floor or ground and is 3 1/2 inches (90 mm) maximum from the front edge of the unit, including bumpers.

602.3 Operable Parts. Operable parts shall comply with 309.

602.4 Spout Height. Spout outlets shall be 36 inches (915 mm) maximum above the finish floor or ground.

602.5 Spout Location. The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125 mm) maximum from the front edge of the unit, including bumpers.

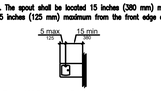


Figure 602.5 Drinking Fountain Spout Location

602.6 Water Flow. The spout shall provide a flow of water 4 inches (100 mm) high minimum and shall be located 5 inches (125 mm) maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches (75 mm) of the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches (75 mm) and 5 inches (125 mm) maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum.

602.7 Drinking Fountains for Standing Persons. Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above the finish floor or ground.

603 Toilet and Bathing Rooms

603.2 Clearances. Clearances shall comply with 603.2.

603.2.1 Turning Space. Turning space complying with 304 shall be provided within the room.

603.2.2 Overlap. Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap.

603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.

603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604 Water Closets and Toilet Compartments

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

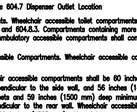


Figure 604.2 Water Closet Location

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.

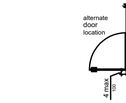


Figure 604.5.1 Side Wall Grab Bar at Water Closets

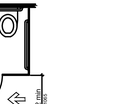


Figure 604.5.2 Rear Wall Grab Bar at Water Closets

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

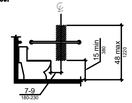


Figure 604.7 Dispenser Outlet Location

604.8 Toilet Compartments. Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 and 604.8.3. Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 and 604.8.3.

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

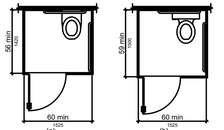


Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

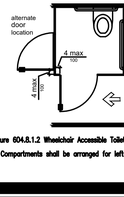


Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

604.8.1.3 Approach. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm)deep

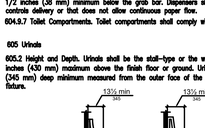


Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

604.8.1.5 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided and shall be located on the wall closest to the water closet. In addition, a rear-wall grab bar complying with 604.5.2 shall be provided.

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

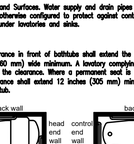


Figure 604.8.2 Ambulatory Accessible Toilet Compartment

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.9 Water Closets and Toilet Compartments for Children's Use. Water closets and toilet compartments for children's use shall comply with 604.9.

604.9.1 Location. The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 12 inches (305 mm) minimum and 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.9.2 Clearance. Clearance around a water closet shall comply with 604.3.

604.9.3 Height. The height of water closets shall be 11 inches (280 mm) minimum and 17 inches (430 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.9.4 Grab Bars. Grab bars for water closets shall comply with 604.5.

604.9.5 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.2 and 309.4 and shall be installed 36 inches (915 mm) maximum above the finish floor. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.9.6 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches (355 mm) minimum and 19 inches (485 mm) maximum above the finish floor. There shall be a clearance of 1 1/2 inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

604.9.7 Toilet Compartments. Toilet compartments shall comply with 604.8.

605 Urinals

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

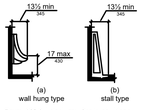


Figure 605.2 Height and Depth of Urinals

605.3 Clear Floor Space. A clear floor or ground space complying with 305 positioned for forward approach shall be provided.

605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.

606 Lavatories and Sinks

606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.

606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.

606.4 Faucets. Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

606.5 Exposed Pipes and Surfaces. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

607 Bathtubs

607.2 Clearance. Clearance in front of bathtubs shall extend the length of the bathtub and shall be 30 inches (760 mm) wide minimum. A lavatory complying with 606 shall be perm

607.4.1.1 Back Wall. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and the other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be installed 15 inches (380 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control end wall.

607.4.1.2 Control End Wall. A grab bar 24 inches (610 mm) long minimum shall be installed on the control end wall at the front edge of the bathtub.

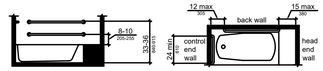


Figure 607.4.1 Grab Bars for Bathtubs with Permanent Seats

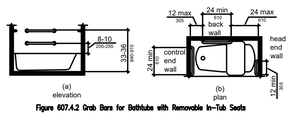


Figure 607.4.2 Grab Bars for Bathtubs with Removable In-Tub Seats

607.4.2 Bathtubs Without Permanent Seats. For bathtubs without permanent seats, grab bars shall comply with 607.4.2.

607.4.2.1 Back Wall. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be 24 inches (610 mm) long minimum and shall be installed 24 inches (610 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control end wall.

607.4.2.2 Control End Wall. A grab bar 24 inches (610 mm) long minimum shall be installed on the control end wall at the front edge of the bathtub.

607.4.2.3 Head End Wall. A grab bar 12 inches (305 mm) long minimum shall be installed on the head end wall at the front edge of the bathtub.

Figure 607.5 Bathtub Control Location

607.5 Controls. Controls, other than drain stoppers, shall be located on an end wall. Controls shall be between the bathtub rim and grab bar, and between the open side of the bathtub and the centerline of the width of the bathtub. Controls shall comply with 309.4.

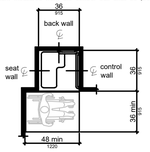
607.6 Shower Spray Unit and Water. A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Bathtub shower spray units shall deliver water that is 120°F (49°C) maximum.

607.7 Bathtub Enclosures. Enclosures for bathtubs shall not obstruct controls, faucets, shower and spray units or obstruct transfer from wheelchairs onto bathtub seats or into bathtubs. Enclosures on bathtubs shall not have tracks installed on the rim of the open face of the bathtub.

608 Shower Compartments

608.2 Size and Clearances for Shower Compartments. Shower compartments shall have sizes and clearances complying with 608.2.

608.2.1 Transfer Type Shower Compartments. Transfer type shower compartments shall be 36 inches (915 mm) by 36 inches (915 mm) clear inside dimensions measured at the center points of opposing sides and shall have a 36 inch (915 mm) wide minimum entry on the face of the shower compartment. Clearance of 36 inches (915 mm) wide minimum by 48 inches (1220 mm) long minimum measured from the control wall shall be provided.

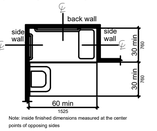


Note: inside finished dimensions measured at the center points of opposing sides

Figure 608.2.1 Transfer Type Shower Compartment Size and Clearance

608.2.2 Standard Roll-in Type Shower Compartments. Standard roll-in type shower compartments shall be 30 inches (760 mm) wide minimum by 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides and shall have a 60 inches (1525 mm) wide minimum entry on the face of the shower compartment.

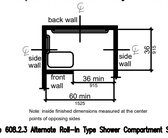
608.2.2.1 Clearance. A 30 inch (760 mm) wide minimum by 60 inch (1525 mm) long minimum clearance shall be provided adjacent to the open face of the shower compartment.



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

Figure 608.2.2 Standard Roll-in Type Shower Compartment Size and Clearance

608.2.3 Alternate Roll-in Type Shower Compartments. Alternate roll-in type shower compartments shall be 36 inches (915 mm) wide and 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides. A 36 inch (915 mm) wide minimum entry shall be provided at one end of the long side of the compartment.



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

Figure 608.2.3 Alternate Roll-in Type Shower Compartment Size and Clearance

608.3 Grab Bars. Grab bars shall comply with 609 and shall be provided in accordance with 608.3. Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the finish floor.

608.3.1 Transfer Type Shower Compartments. In transfer type compartments, grab bars shall be provided across the control wall and back wall to a point 18 inches (455 mm) from the control wall.

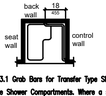


Figure 608.3.1 Grab Bars for Transfer Type Showers

608.3.2 Standard Roll-in Type Shower Compartments. Where a seat is provided in standard roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall opposite the seat. Grab bars shall not be provided above the seat. Where a seat is not provided in standard roll-in type shower compartments, grab bars shall be provided on three walls. Grab bars shall be installed 6 inches (150 mm) maximum from adjacent walls.

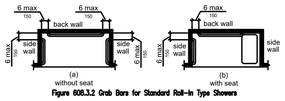


Figure 608.3.2 Grab Bars for Standard Roll-in Type Showers

608.3.3 Alternate Roll-in Type Shower Compartments. In alternate roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall farthest from the compartment entry. Grab bars shall not be provided above the seat. Grab bars shall be installed 6 inches (150 mm) maximum from adjacent walls.

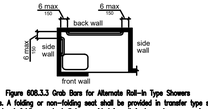


Figure 608.3.3 Grab Bars for Alternate Roll-in Type Showers

608.4 Seats. A folding or non-folding seat shall be provided in transfer type shower compartments. A folding seat shall be provided in roll-in type showers required in transient lodging guest rooms with mobility features complying with 806.2. Seats shall comply with 610.

608.5 Controls. Controls, faucets, and shower spray units shall comply with 309.4.

608.5.1 Transfer Type Shower Compartments. In transfer type shower compartments, the controls, faucets, and shower spray unit shall be installed on the side wall opposite the seat 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower floor and shall be located on the control wall 15 inches (380 mm) maximum from the centerline of the seat toward the shower opening.

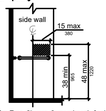


Figure 608.5.1 Transfer Type Shower Compartment Control Location

608.5.2 Standard Roll-in Type Shower Compartments. In standard roll-in type shower compartments, the controls, faucets, and shower spray unit shall be located above the grab bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be located on the back wall adjacent to the seat wall and shall be located 27 inches (685 mm) maximum from the seat wall.

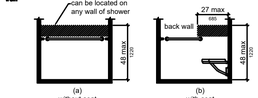


Figure 608.5.2 Standard Roll-in Type Shower Compartment Control Location

608.5.3 Alternate Roll-in Type Shower Compartments. In alternate roll-in type shower

bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be located on the side wall

shower spray unit shall be installed on the side wall farthest from the compartment entry.

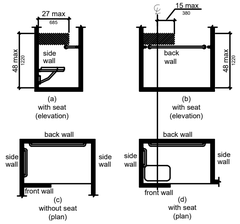


Figure 608.5.3 Alternate Roll-in Type Shower Compartment Control Location

608.6 Shower Spray Unit and Water. A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Shower spray units shall deliver water that is 120°F (49°C) maximum.

608.7 Thresholds. Thresholds in roll-in type shower compartments shall be 1/2 inch (13 mm) high maximum in accordance with 303. In transfer type shower compartments, thresholds 1/2 inch (13 mm) high maximum shall be beveled, rounded, or vertical.

608.8 Shower Enclosures. Enclosures for shower compartments shall not obstruct controls, faucets, and shower spray units or obstruct transfer from wheelchairs onto shower seats.

609 Grab Bars

609.1 General. Grab bars in toilet facilities and bathing facilities shall comply with 609.

609.2 Cross Section. Grab bars shall have a cross section complying with 609.2.1 or 609.2.2.

609.2.1 Circular Cross Section. Grab bars with circular cross sections shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

609.2.2 Non-Circular Cross Section. Grab bars with non-circular cross sections shall have a cross-section dimension of 2 inches (51 mm) maximum and a perimeter dimension of 4 inches (100 mm) minimum and 4.8 inches (120 mm) maximum.

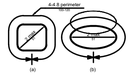


Figure 609.2.2 Grab Bar Non-Circular Cross Section

609.3 Spacing. The space between the wall and the grab bar shall be 1 1/2 inches (38 mm). The space between the grab bar and projecting objects below and at the ends shall be 1 1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.

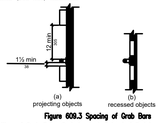


Figure 609.3 Spacing of Grab Bars

609.4 Position of Grab Bars. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that at water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lower grab bar on the back wall of a bathtub shall comply with 607.4.1.1 or 607.4.2.1.

609.5 Surface Hazards. Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

609.6 Fittings. Grab bars shall not rotate within their fittings.

609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor spaces.

609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

610 Seats

610.2 Bathtub Seats. The top of bathtub seats shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. The depth of a removable in-tub seat shall be 15 inches (380 mm) minimum and 16 inches (405 mm) maximum. The seat shall be capable of secure placement. Permanent seats at the head end of the bathtub shall be 15 inches (380 mm) deep minimum and shall extend from the back wall to or beyond the outer edge of the bathtub.

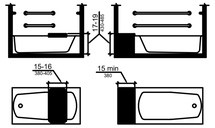


Figure 610.2 Bathtub Seats

610.3 Shower Compartment Seats. Where a seat is provided in a standard roll-in shower compartment, it shall be a folding type, shall be installed on the side wall adjacent to the controls, and shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. Where a seat is provided in an alternate roll-in type shower compartment, it shall be a folding type, shall be installed on the front wall opposite the back wall, and shall extend from the adjacent side wall to a point within 3 inches (75 mm) of the compartment entry. In transfer-type showers, the seat shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. The top of the seat shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. Seats shall comply with 610.3.1 or 610.3.2.

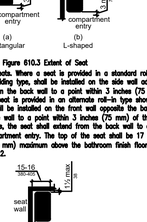


Figure 610.3 Extent of Seat

610.3.1 Rectangular Seats. The rear edge of a rectangular seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The side edge of the seat shall be 1 1/2 inches (38 mm) maximum from the adjacent wall.

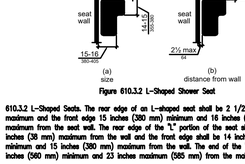


Figure 610.3.2 L-Shaped Shower Seat

610.3.2 L-Shaped Seats. The rear edge of an L-shaped seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The rear edge of the "L" portion of the seat shall be 1 1/2 inches (38 mm) maximum from the wall and the front edge shall be 14 inches (355 mm) minimum and 15 inches (380 mm) maximum from the wall. The end of the "L" shall be 22 inches (560 mm) minimum and 23 inches maximum (585 mm) from the main seat wall.

610.4 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the seat, fastener, mounting device, or supporting structure.

611 Washing Machines and Clothes Dryers

611.2 Clear Floor Space. A clear floor or ground space complying with 305 positioned for parallel approach shall be provided. The clear floor or ground space shall be centered on the appliance.

611.3 Operable Parts. Operable parts, including doors, lint screens, and detergent and bleach compartments shall comply with 309.

611.4 Height. Top loading machines shall have the door to the laundry compartment located 36 inches (915 mm) maximum above the finish floor. Front loading machines shall have the bottom of the opening to the laundry compartment located 15 inches (380 mm) minimum and 36 inches (915 mm) maximum above the finish floor.

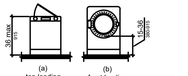


Figure 611.4 Height of Laundry Compartment Opening

612 Saunas and Steam Rooms

612.2 Bench. Where seating is provided in saunas and steam rooms, at least one bench shall comply with 903. Doors shall not swing into the clear floor space required by 903.2.

612.3 Turning Space. A turning space complying with 304 shall be provided within saunas and steam rooms

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

702 Fire Alarm Systems

702.1 General. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (1999 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1), except that the maximum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 edition) shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with sections 4-3 and 4-4 of NFPA 72 (1999 edition) or sections 7.4 and 7.5 of NFPA 72 (2002 edition).

703 Signs

703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4.

703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.

703.2.2 Case. Characters shall be uppercase.

703.2.3 Style. Characters shall be sans serif. Characters shall not be Italic, oblique, script, highly decorative, or of other unusual forms.

703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "I".

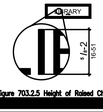


Figure 703.2.5 Height of Raised Characters

703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.

703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.

703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

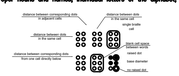


Figure 703.3.1 Braille Measurement

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

Figure 703.3.2 Position of Braille

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

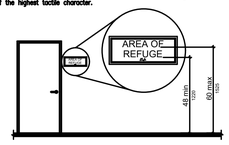


Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the active leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

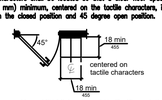


Figure 703.4.2 Location of Tactile Signs at Doors

703.5 Visual Characters. Visual characters shall comply with 703.5.

703.5.1 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

703.5.2 Case. Characters shall be uppercase or lowercase or a combination of both.

703.5.3 Style. Characters shall be conventional in form. Characters shall not be Italic, oblique, script, highly decorative, or of other unusual forms.

703.5.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.5.5 Character Height. Minimum character height shall comply with Table 703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach toward the sign. Character height shall be based on the uppercase letter "I".

703.5.6 Height From Finish Floor or Ground. Visual characters shall be 40 inches (1015 mm) minimum above the finish floor or ground.

703.5.7 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 30 percent maximum of the height of the character.

703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10 percent minimum and 35 percent maximum of character height.

703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height.

703.6 Pictograms. Pictograms shall comply with 703.6.

703.6.1 Pictogram Field. Pictograms shall have a field height of 6 inches (150 mm) minimum. Characters and braille shall not be located in the pictogram field.

Figure 703.6.1 Pictogram Field
dark-on-light.

703.6.2 Finish and Contrast. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light field.

703.6.3 Text Descriptors. Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with 703.2, 703.3 and 703.4.

703.7 Symbols of Accessibility. Symbols of accessibility shall comply with 703.7.

703.7.1 Finish and Contrast. Symbols of accessibility and their background shall have a non-glare finish. Symbols of accessibility shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.

704 Telephones

704.1 General. Public telephones shall comply with 704.

704.2 Wheelchair Accessible Telephones. Wheelchair accessible telephones shall comply with 704.2.

704.2.1 Clear Floor or Ground Space. A clear floor or ground space complying with 305 shall be provided. The clear floor or ground space shall not be obstructed by bases, enclosures, or seats.

Advisory 704.2.1 Clear Floor or Ground Space. Because clear floor and ground space is required to be unobstructed, telephones, enclosures and related telephone book storage cannot encroach on the required clear floor or ground space and must comply with the provisions for protruding objects. (See Section 307).

704.2.1.1 Parallel Approach. Where a parallel approach is provided, the distance from the edge of the telephone enclosure to the face of the telephone unit shall be 10 inches (255 mm) maximum.

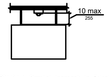


Figure 704.2.1.1 Parallel Approach to Telephone

704.2.1.2 Forward Approach. Where a forward approach is provided, the distance from the front edge of a counter within the telephone enclosure to the face of the telephone unit shall be 20 inches (510 mm) maximum.

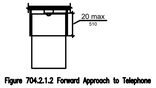


Figure 704.2.1.2 Forward Approach to Telephone

704.2.2 Operable Parts. Operable parts shall comply with 309. Telephones shall have push-button controls where such service is available.

704.2.3 Telephone Directories. Telephone directories, where provided, shall be located in accordance with 309.

704.2.4 Cord Length. The cord from the telephone to the handset shall be 29 inches (735 mm) long minimum.

704.3 Volume Control Telephones. Public telephones required to have volume controls shall be equipped with a receive volume control that provides a gain adjustable up to 20 dB minimum. For incremental volume control, provide at least one intermediate step of 12 dB of gain minimum. An automatic reset shall be provided.

704.4 TTYs. TTYs required at a public pay telephone shall be permanently affixed within, or adjacent to, the telephone enclosure. Where an acoustic coupler is used, the telephone cord shall be sufficiently long to allow connection of the TTY and the telephone receiver.

704.4.1 Height. When in use, the touch surface of TTY keypads shall be 34 inches (865 mm) minimum above the finish floor.

704.5 TTY Shelf. Public pay telephones required to accommodate portable TTYs shall be equipped with a shelf and an electrical outlet within or adjacent to the telephone enclosure. The telephone handset shall be capable of being placed flush on the surface of the shelf. The shelf shall be capable of accommodating a TTY and shall have 6 inches (150 mm) minimum vertical clearance above the area where the TTY is to be placed.

705 Detectable Warnings

705.1 General. Detectable warnings shall consist of a surface of truncated domes and shall comply with 705.

705.1.1 Dome Size. Truncated domes in a detectable warning surface shall have a base diameter of 0.9 inch (23 mm) minimum and 1.4 inches (36 mm) maximum, a top diameter of 50 percent of the base diameter minimum to 65 percent of the base diameter maximum, and a height of 0.2 inch (5.1 mm).

705.1.2 Dome Spacing. Truncated domes in a detectable warning surface shall have a center-to-center spacing of 1.6 inches (41 mm) minimum and 2.4 inches (61 mm) maximum, and a base-to-base spacing of 0.65 inch (17 mm) minimum, measured between the most adjacent domes on a square grid.

705.1.3 Contrast. Detectable warning surfaces shall contrast visually with adjacent walking surfaces either light-on-dark, or dark-on-light.

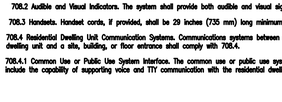


Figure 705.1 Size and Spacing of Truncated Domes

705.2 Platform Edges. Detectable warning surfaces at platform boarding edges shall be 24 inches (610 mm) wide and shall extend the full length of the public use areas of the platform.

706 Assistive Listening Systems

706.2 Receiver Jacks. Receivers required for use with an assistive listening system shall include a 1/8 inch (3.2 mm) standard mono jack.

706.3 Receiver Hearing-Aid Compatibility. Receivers required to be hearing-aid compatible shall interface with telecoils in hearing aids through the provision of neckloops.

706.4 Sound Pressure Level. Assistive listening systems shall be capable of providing a sound pressure level of 110 dB minimum and 118 dB maximum with a dynamic range on the volume control of 50 dB.

706.5 Signal-to-Noise Ratio. The signal-to-noise ratio for internally generated noise in assistive listening systems shall be 18 dB minimum.

706.6 Peak Clipping Level. Peak clipping shall not exceed 18 dB of clipping relative to the peaks of speech.

707 Automatic Teller Machines and Fare Machines

707.2 Clear Floor or Ground Space. A clear floor or ground space complying with 305 shall be provided.

707.3 Operable Parts. Operable parts shall comply with 309. Unless a clear or correct key is provided, each operable part shall be able to be differentiated by sound or touch, without activation.

EXCEPTION: Drive-up only automatic teller machines and fare machines shall not be required to comply with 309.2 and 309.3.

707.4 Privacy. Automatic teller machines shall provide the opportunity for the same degree of privacy of input and output available to all individuals.

707.5 Speech Output. Machines shall be speech enabled. Operating instructions and orientation, visible transaction prompts, user input verification, error messages, and all displayed information for full use shall be accessible to and independently usable by individuals with vision impairments. Speech shall be delivered through a mechanism that is readily available to all users, including but not limited to, an industry standard connector or a telephone handset. Speech shall be recorded or digitized human, or synthesized.

707.5.1 User Control. Speech shall be capable of being repeated or interrupted. Volume control shall be provided for the speech function.

707.5.2 Receipts. Where receipts are provided, speech output devices shall provide audible balance inquiry information, error messages, and all other information on the printed receipt necessary to complete or verify the transaction.

707.6 Input. Input devices shall comply with 707.6.

707.6.1 Input Controls. At least one tactilely discernible input control shall be provided for each function. Where provided, key surfaces not on active areas of display screens, shall be raised above surrounding surfaces. Where membrane keys are the only method of input, each shall be tactilely discernable from surrounding surfaces and adjacent keys.

707.6.2 Numeric Keys. Numeric keys shall be arranged in a 12-key ascending or descending telephone keypad layout. The number five key shall be tactilely distinct from the other keys.

707.6.3.1 Contrast. Function keys shall contrast visually from background surfaces. Characters and symbols on key surfaces shall contrast visually from key surfaces. Visual contrast shall be either light-on-dark or

707.6.3.2 Tactile Symbols. Function key surfaces shall have tactile symbols as follows: Enter or Proceed key: raised circle; Clear or Correct key: raised left arrow; Cancel key: raised letter ex; Add Value key: raised plus sign; Decrease Value key: raised minus sign.

707.7 Display Screen. The display screen shall comply with 707.7.

707.7.1 Visibility. The display screen shall be visible from a point located 40 inches (1015 mm) above the center of the clear floor space in front of the machine.

707.7.2 Characters. Characters displayed on the screen shall be in a sans serif font. Characters shall be 3/16 inch (4.8 mm) high minimum based on the uppercase letter "I". Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

707.8 Braille Instructions. Braille instructions for initiating the speech mode shall be provided. Braille shall comply with 703.3.

708 Two-Way Communication Systems

708.1 General. Two-way communication systems shall comply with 708.

708.2 Audible and Visual Indicators. The system shall provide both audible and visual signals.

708.3 Handsets. Handset cords, if provided, shall be 29 inches (735 mm) long minimum.

708.4 Residential Dwelling Unit Communication Systems. Communications systems between a residential dwelling unit and a site, building, or floor entrance shall comply with 708.4.

708.4.1 Common Use or Public Use System Interface. The common use or public use system interface shall include the capability of supporting voice and TTY communication with the residential dwelling unit interface.

DRAWN BY: DP

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REGISTERED ARCHITECT
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27712
STATE OF TEXAS
04-06-21

ADA STANDARDS

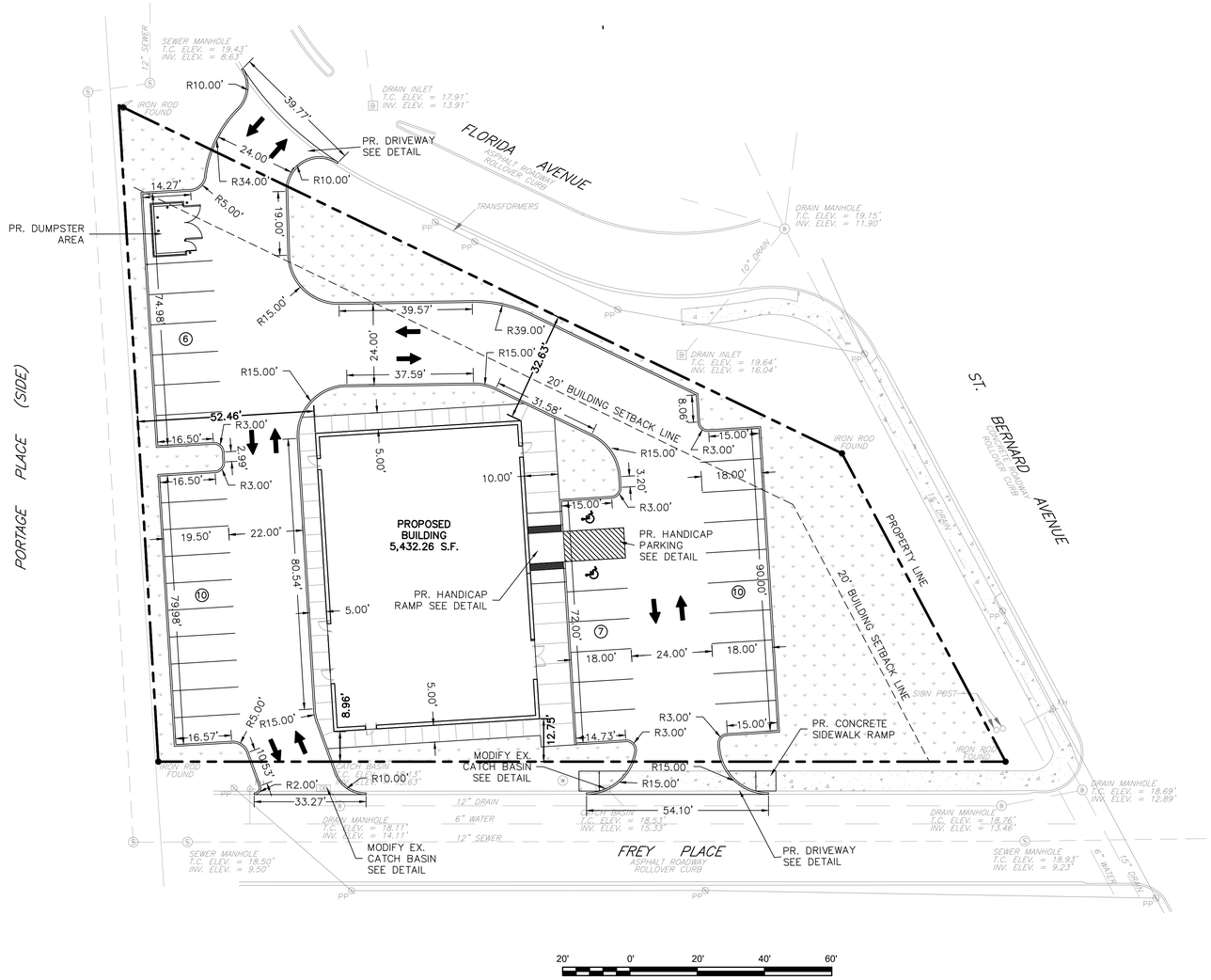
MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

DATE	DESCRIPTION	BY

SCALE:
AS NOTED

PROJECT NO.
083-01

SHEET NO.
ADA3



SCALE: 1"=20'

GENERAL NOTES:

1. ALL DIMENSIONS ARE TO FACE OF CURB, UNLESS NOTED OTHERWISE.
2. CONTRACTOR TO VERIFY BUILDING AND PARKING LOT LAYOUT WITH ARCHITECT PRIOR TO FORMING OF BUILDINGS, WALKS AND PARKING LOT AREAS.
3. ALL CURBS ARE BARRIER TYPE, UNLESS NOTED OTHERWISE, SEE DETAILS.
4. ALL NEWLY CUT AND/OR FILLED AREAS LACKING ADEQUATE VEGETATION SHALL BE SEEDED, FERTILIZED, MULCHED, AND/OR SODDED AS REQUIRED TO EFFECTIVELY PREVENT SOIL EROSION. CONTRACTOR SHALL MAINTAIN THESE AREAS UNTIL A HEALTHY STAND OF GRASS IS ACHIEVED.
5. THE CONTRACTOR MUST HAVE WRITTEN APPROVAL FROM THE CITY ENGINEER AND THE PROJECT ENGINEER BEFORE ANY CHANGE IN DESIGN IS MADE.
6. THE CONTRACTOR SHALL NOT ENTER UPON NOR CAUSE DAMAGE TO ANY ADJACENT PROPERTIES WITHOUT WRITTEN PERMISSION FROM SAID PROPERTY OWNERS.
7. ALL FILL AND COMPACTION SHALL BE EXECUTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND THE GRADING PLAN.
8. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF SIDEWALKS, EXIT PORCHES, RAMPS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
9. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR SITE LIGHTING ELECTRICAL PLAN, INCLUDING LOCATIONS, TYPES, CONDUITS, ETC.
10. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL AREAS INDICATED TO REMAIN UNDISTURBED OR TO REMAIN AS BUFFERS, ALL PROPERTY CORNERS, AND REPLACING ALL PINS DAMAGES DURING CONSTRUCTION.
11. CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING BENCHMARK. BENCHMARK INFORMATION CAN BE FOUND ON THE GRADING PLAN.
12. PARKING STALLS MUST BE STRIPED WITH A 4" CONTRASTING STRIPE (YELLOW ON CONCRETE AND YELLOW OR WHITE ON ASPHALT PARKING LOTS).
13. CONTRACTOR SHALL POTHOLE TO LOCATE EXISTING UTILITY LINES INCLUDING FIBEROPTIC, WATER AND GAS PRIOR TO CONSTRUCTION.
14. PARKING STALLS MUST BE STRIPED WITH A 4 INCH YELLOW STRIPE.
15. HANDICAP PARKING SPACES ARE TO BE DESIGNATED BY BLUE STRIPING & EITHER A BLUE SYMBOL ON A WHITE BACKGROUND OR A WHITE SYMBOL ON A BLUE BACKGROUND. ALL HANDICAP PARKING STALLS REQUIRE THE INSTALLATION OF THE PROPER SIGNAGE.
16. ALL WHEEL STOPS AND CONCRETE CURBS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THIS PLAN SET.
17. ALL PARKING SPACES ARE TO BE LAID OUT IN ACCORDANCE WITH THE TYPICAL DETAIL AS SHOWN ON THIS PLAN UNLESS OTHERWISE INDICATED ON THIS PLAN.
18. CONTRACTOR TO VERIFY SIGNS AND SIGN LOCATIONS WITH OWNER PRIOR TO INSTALLATION.

SITE STATISTICS:

AREA OF CONCRETE PAVING	17,714 SQ. FT.
GREEN OR LANDSCAPED AREA	8,750 SQ. FT. (27.4% GREEN SPACE)
BUILDING AREA	5,432 SQ. FT.
TOTAL SITE AREA	31,895.72 SQ.FT. OR (0.73 ACRES)

PARKING STATISTICS:

1 PER FOR 500 SQ FT OF GFA

TOTAL PARKING SPACES REQUIRED	22 SPACES
TOTAL PARKING SPACES PROPOSED	33 (2 ACCESSIBLE SPACES)

SITE ZONING DISTRICT:

C-1 GENERAL COMMERCIAL DISTRICT (C-1)

PROPOSED LEGEND:

SYMBOL	DESCRIPTION
(13)	# OF PARKING STALLS
	LANDSCAPED AREA

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FEBRUARY 17, 2021

LA TERRE ENGINEERING, LLC

STATE OF LOUISIANA
SENECA TOUSSANT
License No. 36080
PROFESSIONAL ENGINEER
IN
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PRELIMINARY

REVISIONS			
NO.	BY	DATE	REMARKS

SHEET INFO		
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PLOT DATE		2/16/2021
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SITE PLAN
MASONIC TEMPLE SUPREME COUNCIL A.A.S.R.
DP DESIGNS

SCALE 1" = 20'
DRAWING FILE NAME C1.0 SITE PLANREV
PROJECT NUMBER 2021-02

SHEET NUMBER
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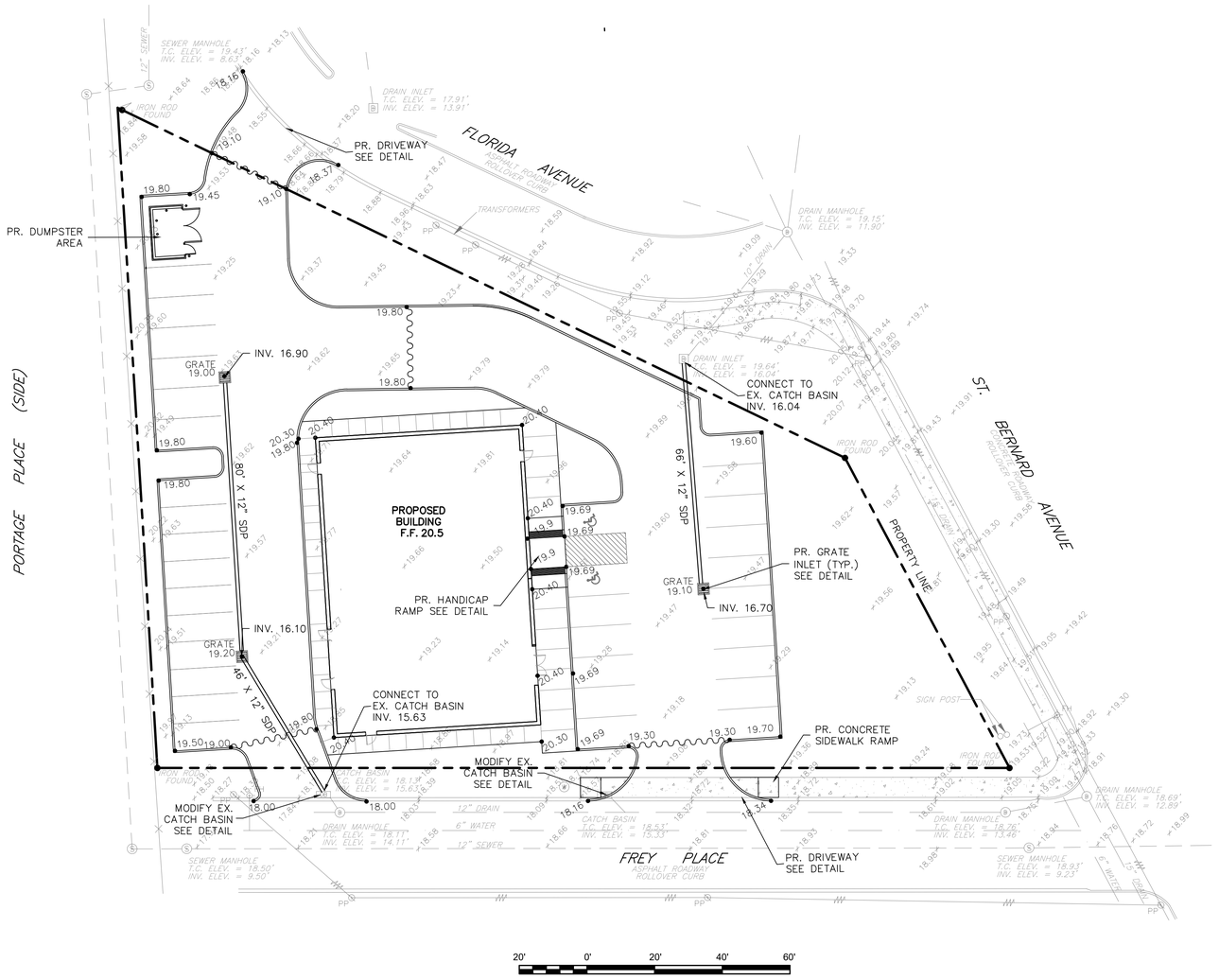

SCALE: 1"=20'

GENERAL GRADING NOTES

1. LOUISIANA LAW REQUIRES A MINIMUM OF 48 HOURS NOTICE TO UNDERGROUND UTILITY OWNERS BEFORE YOU PERFORM ANY DIGGING OR DEMOLITION AS REQUIRED BY THE "LOUISIANA UNDERGROUND UTILITIES AND FACILITIES DAMAGE PREVENTION LAW". CONTRACTORS SHALL LOUISIANA ONE CALL AT 1-800-272-3020.
2. CONTRACTOR SHALL VERIFY BUILDING AND PARKING LOT LAYOUT WITH THE ARCHITECT PRIOR TO FORMING OF BUILDINGS, WALKS AND PARKING LOT AREAS.
3. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING UTILITIES WITHIN WORK AREAS PRIOR TO EXCAVATION.
4. ALL PAVEMENT GRADES SHOWN ARE TOP OF CONCRETE UNLESS NOTED. TOP OF CURBS IS 6-INCHES HIGHER THAN ELEVATION SHOWN.
5. ALL MANHOLE AND INLET TOP ELEVATIONS LISTED ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR SETTING ALL TOP ELEVATIONS FLUSH WITH FINISH GRADE AND SLOPED IF PAVEMENT IS TO BE SLOPED.
6. CONTRACTOR SHALL BACK FILL AGAINST TOP OF CURBS AT 3:1 SLOPE TO EXISTING GRADE UNLESS NOTED OTHERWISE.
7. SLOPE OF PAVING SHALL NOT EXCEED 2% AT HANDICAP ACCESSIBLE SPACES.
8. CONTRACTOR SHALL GRADE PAVEMENT AROUND SIDEWALKS & CURBS FOR POSITIVE DRAINAGE TO AN INLET OR DESIGNATED DRAINAGE AREA.
9. THE CONTRACTOR MUST HAVE WRITTEN APPROVAL FROM THE CITY ENGINEER AND THE PROJECT ENGINEER BEFORE ANY CHANGE IN DESIGN IS MADE.
10. THE CONTRACTOR SHALL NOT ENTER UPON NOR CAUSE DAMAGE TO ANY ADJACENT PROPERTIES WITHOUT WRITTEN PERMISSION FROM SAID PROPERTY OWNERS.
11. ALL LANDSCAPED ISLANDS ARE TO BE GRADED TO DRAIN OVER CURB AND INTO PARKING AREA.
12. CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL THE NEW DRAINAGE IS INSTALLED. THE CONTRACTOR SHALL NOT CAUSE ANY INCREASE IN RISK OF FLOODING TO ANY SURROUNDING PROPERTY OWNERS DURING THE COURSE OF CONSTRUCTION.
13. THE PIPE SHALL BE LAID, AS DIRECTED BY THE ENGINEER, ON FIRM SOIL UNLESS BEDDING IS REQUIRED ELSEWHERE IN THE PLANS ALLOWING FOR BEARING FULL FOR THE FULL LENGTH OF THE BARREL OF THE PIPE. ANY PART OF THE TRENCH EXCAVATED BELOW GRADE SHALL BE CORRECTED WITH THOROUGHLY COMPACTED MATERIAL APPROVED BY THE ENGINEER. ALL PIPE SHALL BE CAREFULLY LAID TO THE LINES AND GRADES SHOWN ON THE PLANS. ANY PIPE NOT TRUE IN ALIGNMENT OR WHICH SHOWS SETTLEMENT AFTER LAYING, SHALL BE REMOVED AND RE-LAID AT THE CONTRACTOR'S EXPENSE.
14. PIPE LAYING SHALL BEGIN AT THE DOWNSTREAM END OF THE LINE. BEFORE BEING SET IN PLACE EACH SECTION OF PIPE SHALL BE THOROUGHLY CLEANED, AND FREE OF DIRT. ALL BELLS SHALL BE LAID ON THE UPSTREAM END. EACH JOINT SHALL BE WRAPPED WITH GEOTEXTILE FABRIC TO ENSURE SOIL-TIGHTNESS.
15. ALL INLET CONNECTION AT PIPE INTERFACES (EXISTING & PROPOSED) SHALL BE GROUTED WITH NON-SHRINK GROUT FOR AN AIR-TIGHT SEAL.
16. CONTRACTOR SHALL SUBMIT COPIES OF ALL TESTING REPORTS TO THE ENGINEER. TESTING LAB SHOULD BE APPROVED BY ENGINEER. ALL TESTING TO BE PAID FOR BY OWNER AND DIRECTED BY ENGINEER.
17. UPON COMPLETION OF THE JOB, ALL ELEMENTS OF THE DRAIN SYSTEM SHALL BE CLEANED AND FREE OF ANY DIRT AND DEBRIS AND SHOULD BE IN PROPER WORKING CONDITION.
18. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL INLETS, FITTINGS, SEWER PIPES, AND DRAINAGE PIPES TO ENGINEER FOR APPROVAL BEFORE ORDERING MATERIAL.
19. CONTRACTOR TO FINE GRADE "GREEN AREAS" WITHIN 0.10 FOOT OF DESIRED GRADE.
20. STORM DRAINAGE PIPE MAY BE RIBBED PVC PIPE CONFORMING TO ASTM F-794 SERIES 46 OR ASTM C-76 CLASS III REINFORCED CONCRETE PIPE WITH R.G. JOINTS.
21. THE CONTRACTOR IS REQUIRED TO CONNECT ANY ROOF RAIN WATER LEADERS TO SUBSURFACE DRAIN SYSTEMS.
22. SURVEY INFORMATION TAKEN FROM "BOUNDARY SURVEY OF LOTS 1-4 SQUARE 3079 THIRD DISTRICT ORLEANS PARISH, LA" PROVIDED BY R.W. KREBS PROFESSIONAL LAND SURVEYING, LLC DATED JAN. 27, 2021.

GRADING PLAN LEGEND:

- +41.00 — EXISTING SPOT ELEVATION
- • 37.90 — NEW SPOT ELEVATION
- NEW FLOW ARROW
- GRADE BREAK
- DRAINAGE STRUCTURE W/ 2'x2' DUCTILE IRON GRATE
- PROPOSED DRAIN PIPE

FLOOD INFORMATION

THIS SITE IS CURRENTLY LOCATED IN FLOOD ZONE X AS SHOWN ON FEMA FLOOD INSURANCE RATE PANEL 22071C0227F, EFFECTIVE 9/30/2016.

BENCHMARK:

REFERENCE BENCHMARK: ELEV. 64.1'
EBR 025 B
1988 DATUM

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LA TERRE ENGINEERING, LLC

STATE OF LOUISIANA
SENECA TOUSSANT
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GRADING AND DRAINAGE PLAN
MASONIC TEMPLE SUPREME COUNCIL A.A.S.R.
DP DESIGNS

PROJECT NUMBER 2021-02
DRAWING FILE NAME C2.0 GRADING PLAN
SCALE 1" = 20'

SHEET NUMBER
C2.0

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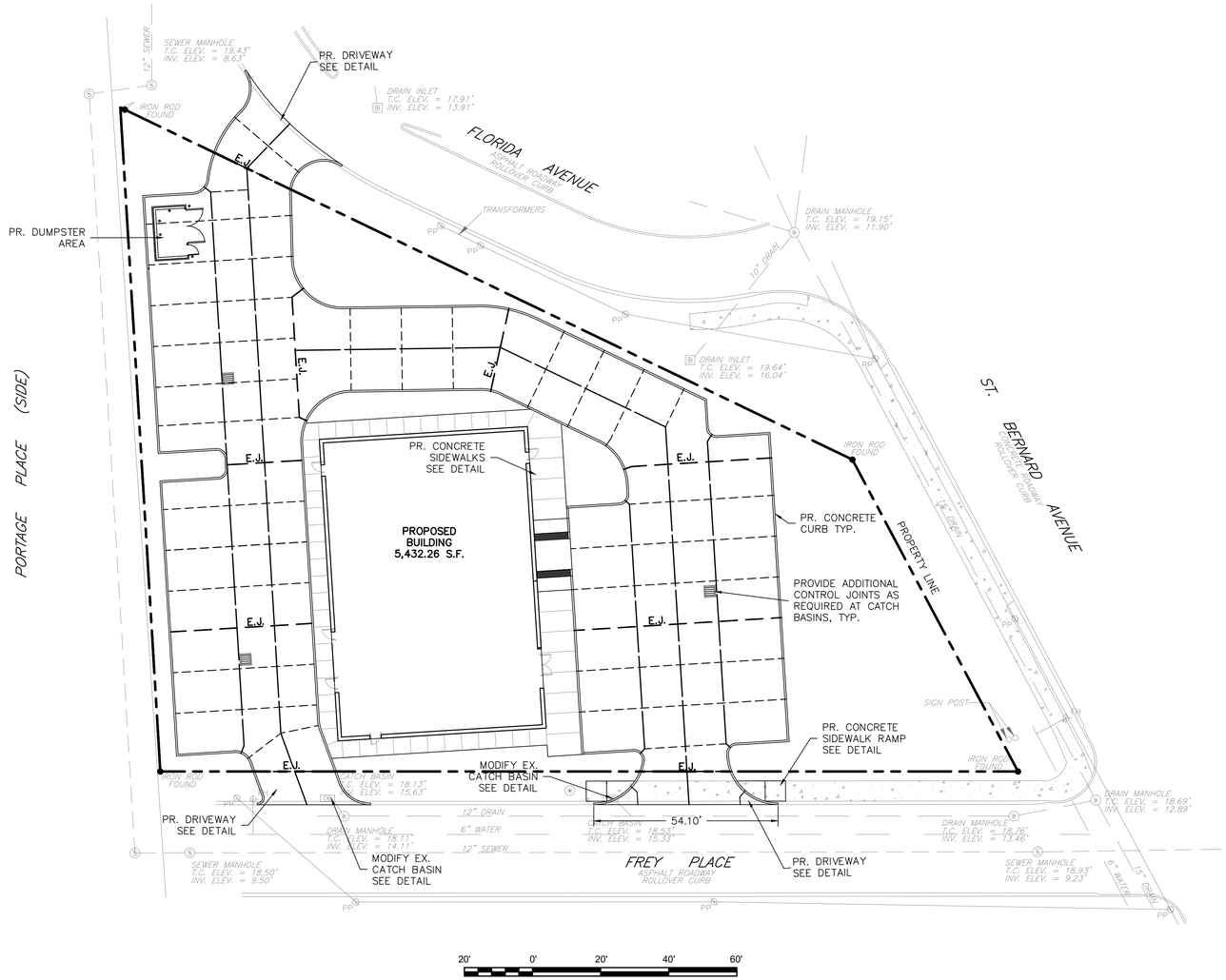

SCALE: 1"=20'

GENERAL PAVING NOTES:

1. CONTRACTOR SHALL EXTEND ALL PAVING JOINTS THROUGH CURBS. JOINTS SHALL BE PERPENDICULAR TO CURBS.
2. CONTRACTOR SHALL VERIFY BUILDING AND PARKING LOT LAYOUT WITH THE ARCHITECT PRIOR TO FORMING OF BUILDINGS, WALKS AND PARKING LOT AREAS.
3. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING UTILITIES WITHIN WORK AREAS PRIOR TO EXCAVATION.
4. CONTRACTOR SHALL BACK FILL AGAINST TOP OF CURBS AT 3:1 SLOPE TO EXISTING GRADE UNLESS NOTED OTHERWISE.
5. SLOPE OF PAVING SHALL NOT EXCEED 2% AT HANDICAP ACCESSIBLE SPACES.
6. CONTRACTOR SHALL GRADE PAVEMENT AROUND SIDEWALKS & CURBS FOR POSITIVE DRAINAGE TO AN INLET OR DESIGNATED DRAINAGE AREA.
7. ALL LANDINGS AT DOORS TO BE FLUSH WITH FINISH FLOOR.

PAVING PLAN LEGEND:

- E.J. — EXPANSION JOINT
- LONGITUDINAL KEY JOINT
- CONTRACTION JOINT
- 4" — STANDARD CONCRETE PAVING
- SIDEWALK (4") PAVING.
- DRAIN INLET

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PAVING PLAN
MASONIC TEMPLE SUPREME COUNCIL A.A.S.R.
DP DESIGNS

PROJECT NUMBER 2021-02

DRAWING FILE NAME C2.1 PAVING PLAN

SCALE 1" = 20'

SHEET NUMBER
C2.1

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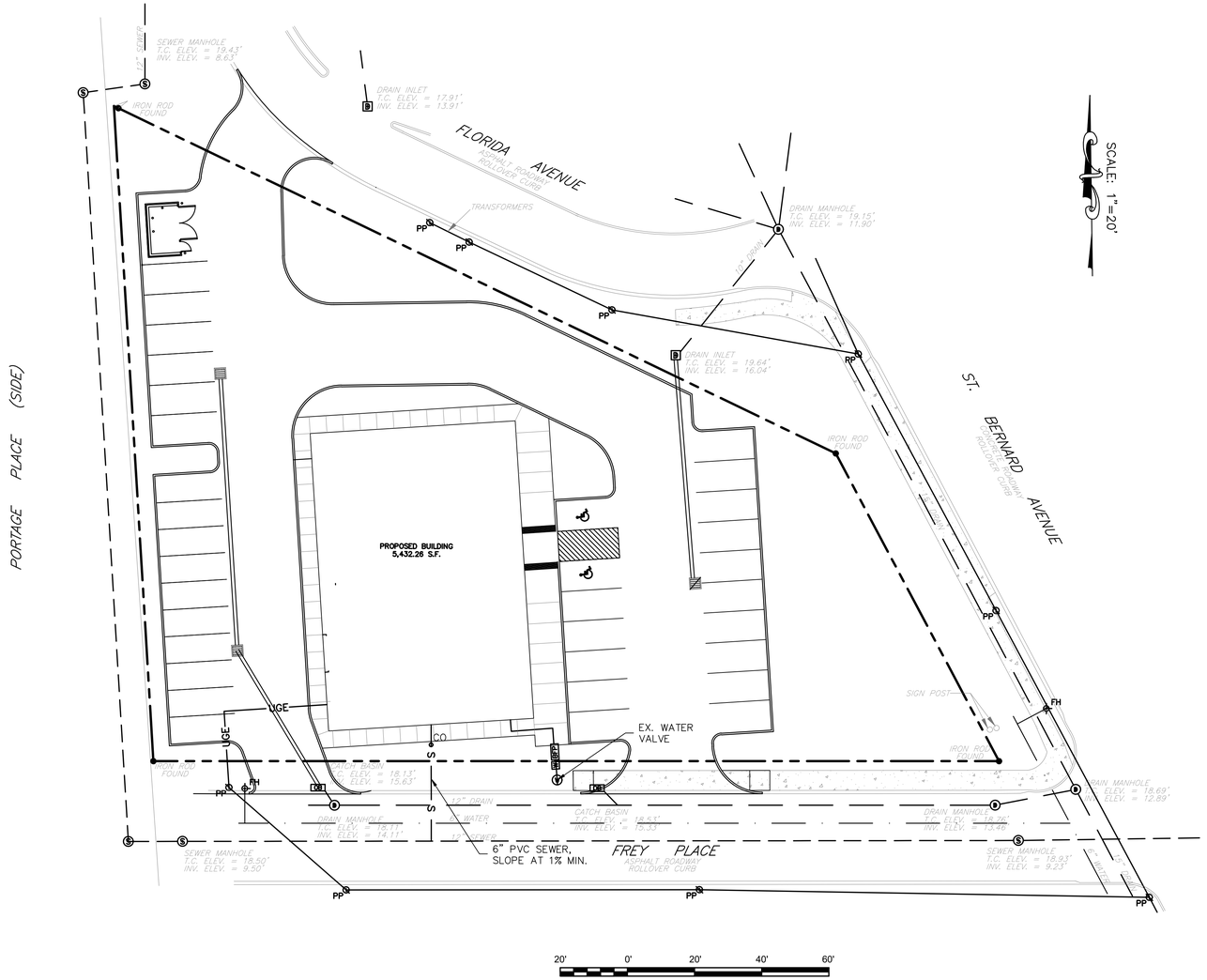

SCALE: 1"=20'

GENERAL UTILITY PLAN NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS, INSPECTIONS, AND APPROVAL OF THE COMPLETED UTILITY WORK FROM ALL OF THE APPROVING AUTHORITIES AND EACH UTILITY COMPANY BEFORE BACK FILLING AND/OR PAVING OVER ANY OF THE UTILITY WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF ALL CONNECTION FEES, INCLUDING TEMPORARY AND PERMANENT CONNECTIONS, DEPOSITS, AND ANY IMPACT FEES ISSUED BY UTILITY COMPANIES FOR UTILITY SERVICE.
3. THE UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD AND COORDINATED WITH UTILITY COMPANIES TO AVOID CONFLICTS.
4. THE CONTRACTOR SHALL VERIFY UTILITY SERVICE ENTRANCE POINTS AND METER LOCATIONS WITH THE ARCHITECT PRIOR TO THE INSTALLATION OF ANY SERVICE LINES.
5. THE CONTRACTOR IS REQUIRED TO CONNECT THE ROOF RAIN WATER LEADERS TO THE CLOSEST DROP INLET. PROVIDE CLEAN-OUTS AT TURNS IN PIPE. (TYP.)

SANITARY SEWER
CONTRACTOR SHALL TIE-IN SEWER LINE TO EXISTING SERVICE LINE. CONTRACTOR SHALL VERIFY LOCATION, INVERT & CONDITION OF LINE WITH LANDLORD AND REPORT TO CIVIL ENGINEER BEFORE LAYING SEWER PIPE. ALL WORK TO CONFORM TO THE CURRENT STANDARD PLUMBING CODE AND CITY MINIMUM REQUIREMENTS. CONTRACTOR SHALL INSTALL A 8" SANITARY SEWER LINE.

ELECTRIC
CONTRACTOR SHALL INSTALL PVC CONDUITS (SIZE AS REQUIRED) FROM THE SERVICE POINT TO THE BUILDING. CONTRACTOR SHALL INSTALL PVC CONDUITS A MINIMUM OF 3-FEET BELOW GRADE. CONTRACTOR SHALL CONTACT ELECTRIC COMPANY FOR EXACT LOCATION OF UNDERGROUND SERVICE.

TELEPHONE
CONTRACTOR SHALL INSTALL 4"Ø PVC CONDUIT FROM THE BUILDING TO THE EDGE OF THE PROPERTY. CONTRACTOR SHALL INSTALL SCHEDULE 40 PVC CONDUIT A MINIMUM OF 3-FEET BELOW GRADE. CONTRACTOR SHALL COORDINATE THE REQUIRED NUMBER OF CONDUIT, CONDUIT ROUTING AND CONNECTION POINT WITH TELEPHONE COMPANY, (ENTRANCE FACILITIES ONLY)

CONTRACTOR SHALL PROVIDE AN ADDITIONAL CONDUIT FOR ROUTING OF INTERNET SERVICE. COORDINATE REQUIREMENTS AND LOCATION WITH OWNER.

WATER
CONTRACTOR SHALL PROVIDE AND INSTALL X" DOMESTIC WATER SERVICE. CONTRACTOR RESPONSIBLE FOR ALL CONNECTION FEES AND COSTS REQUIRED FOR WATER MAIN TAP, SERVICE LINE, 1" METER, AND DHH APPROVED BACKFLOW DEVICE. MINIMUM COVER OF 36" FOR ALL LINES.

UTILITY NOTES:
1. LOUISIANA LAW REQUIRES A MINIMUM OF 48 HOURS NOTICE TO UNDERGROUND UTILITY OWNERS BEFORE YOU PERFORM ANY DIGGING OR DEMOLITION AS REQUIRED BY THE "LOUISIANA UNDERGROUND UTILITIES AND FACILITIES DAMAGE PREVENTION LAW". CONTRACTORS SHALL CALL LOUISIANA ONE CALL AT 1-800-272-3020.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS, INSPECTIONS, AND APPROVAL OF THE COMPLETED UTILITY WORK FROM ALL OF THE APPROVING AUTHORITIES AND EACH UTILITY COMPANY BEFORE BACK FILLING AND/OR PAVING OVER ANY OF THE UTILITY WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF ALL CONNECTION FEES FOR TEMPORARY CONNECTIONS. DEPOSITS AND ANY IMPACT FEES ISSUES BY UTILITY COMPANIES FOR UTILITY SERVICE WILL BE PAID BY OWNER.
4. THE UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD AND COORDINATED WITH UTILITY COMPANIES TO AVOID CONFLICTS.
5. THE CONTRACTOR SHALL VERIFY UTILITY SERVICE ENTRANCE POINTS AND METER LOCATIONS WITH THE ARCHITECT PRIOR TO THE INSTALLATION OF ANY SERVICE LINES.
6. THE CONTRACTOR IS REQUIRED TO CONNECT THE ROOF RAIN WATER LEADERS TO SUBSURFACE DRAIN SYSTEMS.

UTILITY PLAN LEGEND:

	EXISTING DRAIN & LINE
	EXISTING BOX INLET
	PVC DRAIN LINE SIZE AS INDICATED. CLEANOUT AT CHANGES IN DIRECTION. MIN SLOPE 0.25%
	PVC DRAIN LINE, SIZE AS INDICATED
UGE	NEW UNDERGROUND ELECTRICAL SERVICE
W	NEW DOMESTIC WATER LINE
GAS	NEW GAS LINE
SS	NEW SAN. SEWER LINE MIN. SLOPE = 1.0%
TEL	NEW U.G. TELEPHONE LINE
CO	SANITARY SEWER CLEANOUT, RE: 7C3.1 FOR S.S. CLEANOUT. CLEANOUT AT ALL CHANGES IN DIRECTION IN SANITARY SEWER LINES.
W	WATER METER, VERIFY LOCATION
G	GAS METER, VERIFY LOCATION
BFP	DHH APPROVED BACK FLOW PREVENTER, LOCATION TO BE VERIFIED
	DRAIN INLETS, SEE SHEET C3.1
A6	DRAIN STRUCTURE LABEL
B3	DRAIN PIPE LABEL

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UTILITY PLAN
MASONIC TEMPLE SUPREME COUNCIL A.A.S.R.
DP DESIGNS

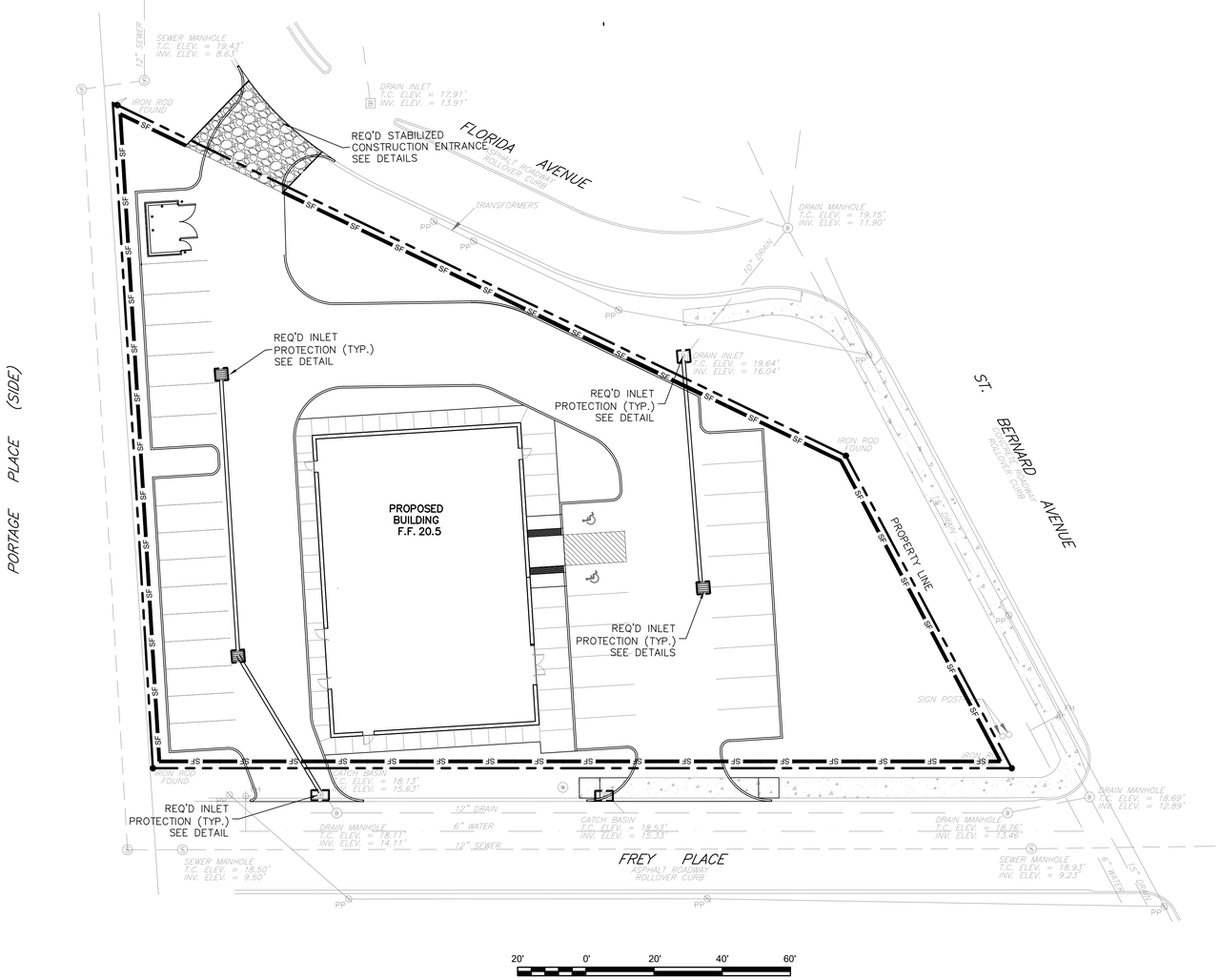
SCALE 1" = 20'

PROJECT NUMBER 2021-02

DRAWING FILE NAME C2.2 UTILITY PLAN

SHEET NUMBER
C2.2

[DATE: 2/16/2021 2:10 PM] [AUTHOR: later] [PLOTTER: DWG To PDF.pc3]
[PATH: C:\Users\later\OneDrive\Documents\Projects\DP Designs\Masonic Hall\C2.2 Utility Plan.dwg] [LAYOUT: C2.2 Utility Plan]



SCALE: 1"=20'

EROSION CONTROL NOTES:

1. ALL NEWLY CUT AND/OR FILLED AREAS LACKING ADEQUATE VEGETATION SHALL BE SEEDED, FERTILIZED, MULCHED, AND/OR SODDED AS REQUIRED TO EFFECTIVELY PREVENT SOIL EROSION PER PROJECT ENGINEER OR LANDSCAPE ARCHITECT.
2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION CONTROL DURING CONSTRUCTION BY THE PLACEMENT OF SILT FENCES AND/OR HAYBALES WHERE NECESSARY TO PREVENT DOWNSTREAM SILTATION OF ANY DITCHES, PIPES, DRAINAGE STRUCTURES OR ADJACENT PROPERTIES. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EROSION CONTROL AS NEEDED OR AS DIRECTED BY THE ENGINEER. IF MAINTENANCE OF EROSION CONTROL IN NEEDED, IT SHALL BE DONE AS SOON AS POSSIBLE AND BEFORE THE NEXT STORM EVENT.
3. AT THE END OF EACH WORK DAY THE CONTRACTOR SHALL PLACE HAYBALES WITH SILT FENCE ACROSS THE UPSTREAM SIDE OF THE NEWLY LAID PIPE. THE HAYBALES AND SILT FENCE SHALL REMAIN IN PLACE UNTIL THE NEXT SECTION OF PIPE IS READY TO BE LAID.
4. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATION OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACT.

LEGEND

- INLET PROTECTION
- SF — SILT FENCE

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APPROVED	ST	2/16/2021
LAST EDIT		2/16/2021
PLOT DATE		2/16/2021
SUBMITTAL		

EROSION CONTROL PLAN
MASONIC TEMPLE SUPREME COUNCIL A.A.S.R.
DP DESIGNS

PROJECT NUMBER 2021-02

DRAWING FILE NAME C2.3 EROSION CONTROL PLAN

SCALE 1" = 20'

SHEET NUMBER C2.3

[DATE: 2/16/2021 2:10 PM] [AUTHOR: later] [PLOTTER: DWG To PDF.pc3]
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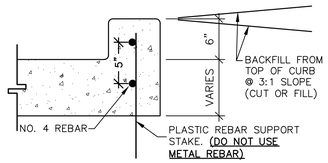
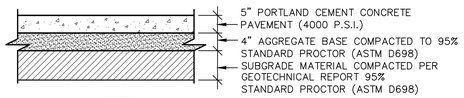
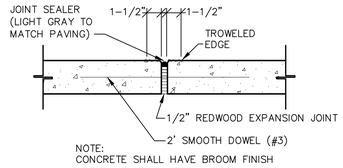


1 | MONOLITHIC CONCRETE CURB
N.T.S.



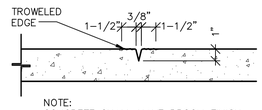
NOTE:
REFER TO GEOTECHNICAL REPORT BY TERRACON DATED OCTOBER, 2020.

2 | PARKING LOT PAVING SECTION
N.T.S.



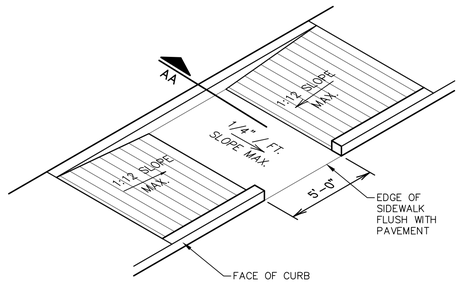
NOTE:
CONCRETE SHALL HAVE BROOM FINISH

3 | SIDEWALK EXPANSION JOINT
N.T.S.

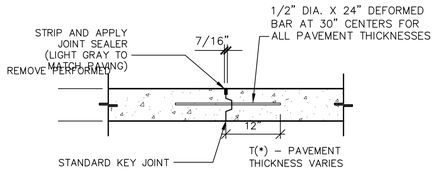


NOTE:
CONCRETE SHALL HAVE BROOM FINISH

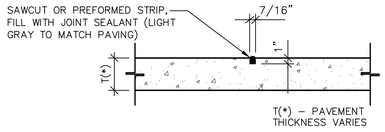
4 | SIDEWALK TOOL JOINT
N.T.S.



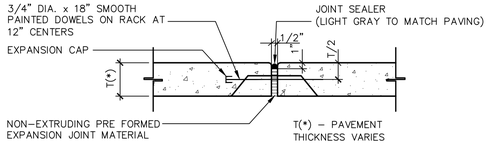
HANDICAP RAMP



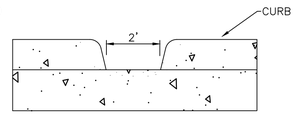
5 | LONGITUDINAL (KEY) JOINT
N.T.S.



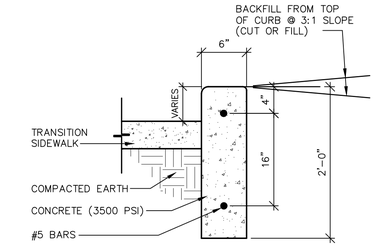
6 | CONTRACTION JOINT
N.T.S.



7 | EXPANSION JOINT
N.T.S.

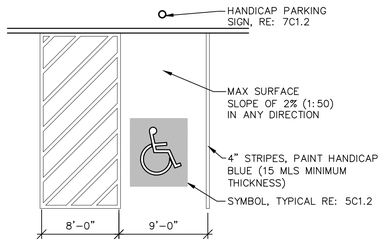


8 | CURB CUT DETAIL
N.T.S.



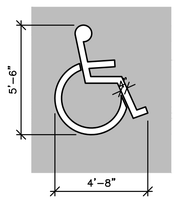
SECTION AA – CURB TRANSITION @ SIDEWALK

9 | HANDICAP ACCESSIBLE RAMP
N.T.S.



NOTE:
PAINT SYMBOL ONTO PAVED SURFACE WITH TWO (2) COATS OF HANDICAP BLUE PAINT. MANUFACTURE AS PER DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

10 | HANDICAP PARKING LAYOUT
N.T.S.

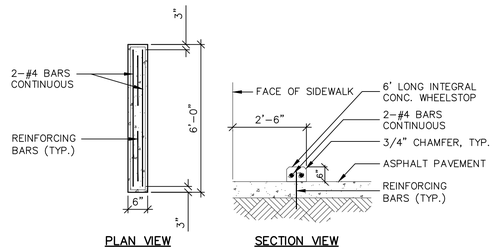


NOTE:
PAINT SYMBOL WITH (2) COATS OF HANDICAP WHIT PAINT OVER A SQUARE OF HANDICAP BLUE PAINT

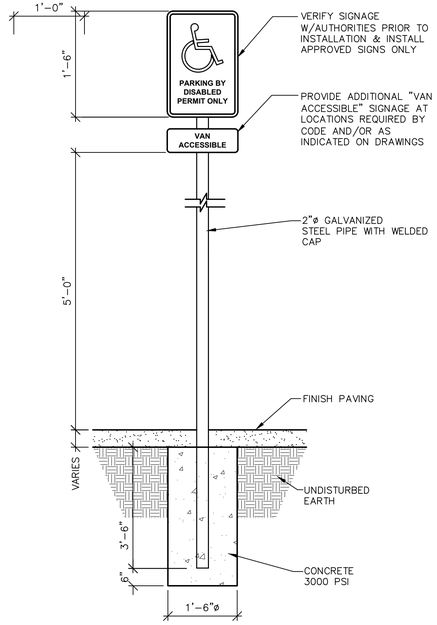
12 | HANDICAP PARKING SYMBOL
N.T.S.

NOTE:
PAINT SHALL BE APPLIED AT A THICKNESS OF 22 WET MILS AND 15 DRY MILS.

11 | TYPICAL PAVEMENT MARKINGS
N.T.S.



13 | WHEEL STOP DETAIL
N.T.S.



NOTES:
1. ALL SIGNS SHOWN SHALL CONFORM TO THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES.
2. ALL SIGNS SHOWN SHALL BE REFLECTORIZED TO SHOW THE SAME COLOR BY NIGHT AS BY DAY.
3. ALL SIGNS SHALL BE SECURELY MOUNTED ON GALVANIZED STEEL POSTS.
4. INSTALL QUANTITY AND AT LOCATIONS REQUIRED BY CODE AND/OR AS INDICATED ON DRAWINGS. CONFIRM ALL HANDICAPPED SIGNAGE CODES.

14 | HANDICAP PARKING SIGN
N.T.S.

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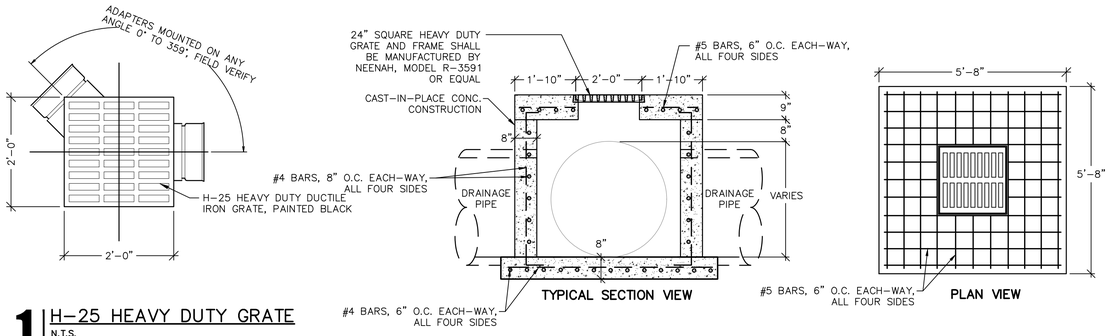
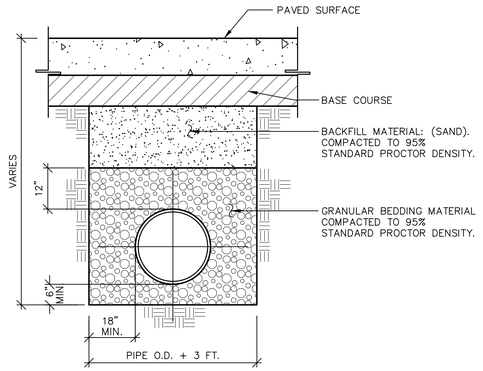
SITE DETAILS
MASONIC TEMPLE SUPREME COUNCIL A.A.S.R.
DP DESIGNS

PROJECT NUMBER
DRAWING FILE NAME: C3.0-C3.2 SITE DETAIL
SCALE: NTS

SHEET NUMBER
C3.0

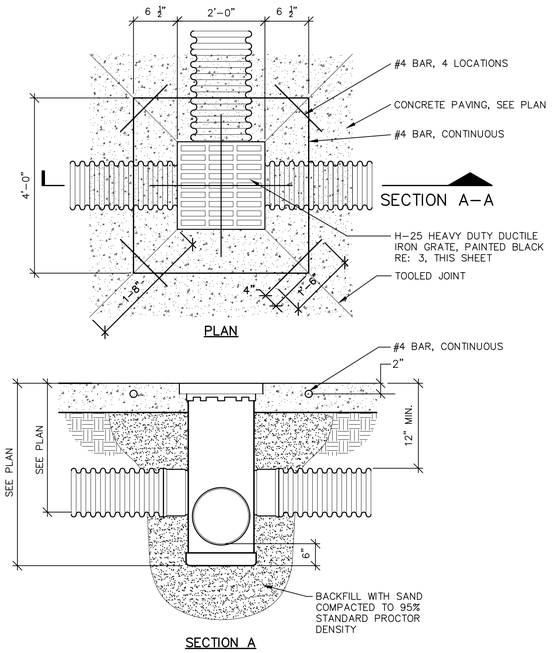


1 | H-25 HEAVY DUTY GRATE
N.T.S.

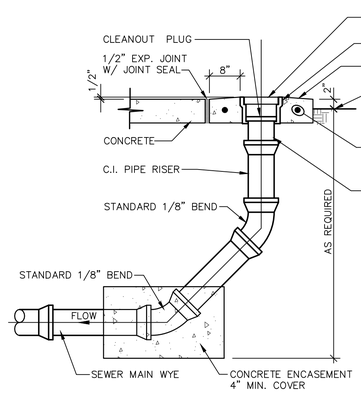


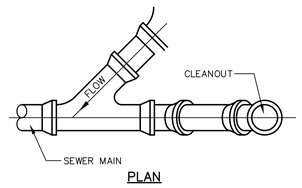
2 | CAST-IN-PLACE DRAIN INLET
N.T.S.

3 | FLEXIBLE PIPE BEDDING
N.T.S.

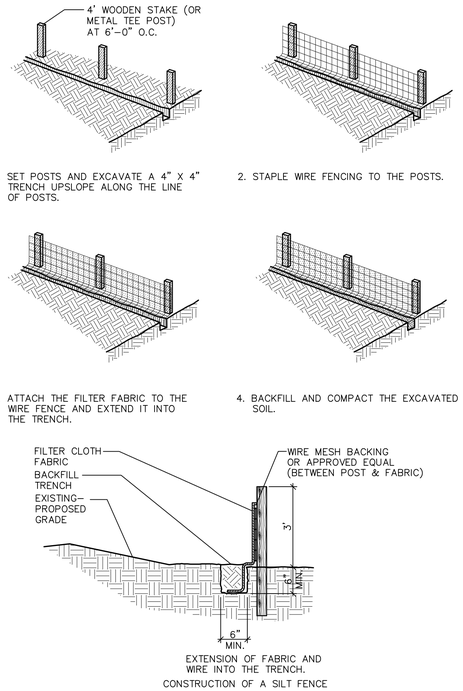


4 | DRAIN BASIN WITH 24" SQUARE GRATE
N.T.S.

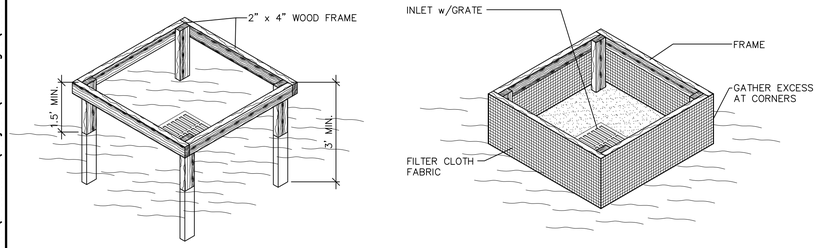




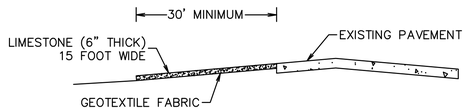
5 | CLEANOUT AT WYE
N.T.S.



6 | SILT FENCE
NOT TO SCALE



7 | TYPICAL INLET PROTECTION
NOT TO SCALE



8 | TYPICAL STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

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LAST EDIT	2/16/2021	
PLOT DATE	2/16/2021	
SUBMITTAL		

SITE DETAILS
MASONIC TEMPLE SUPREME COUNCIL A.A.S.R.
DP DESIGNS

SCALE: NTS
PROJECT NUMBER
DRAWING FILE NAME: C3.0-C3.2 SITE DETAIL

SHEET NUMBER
C3.1

[DATE: 2/16/2021 2:01 PM] [AUTHOR: later] [PLOTTER: AutoCAD PDF (General Documentation).pc3]
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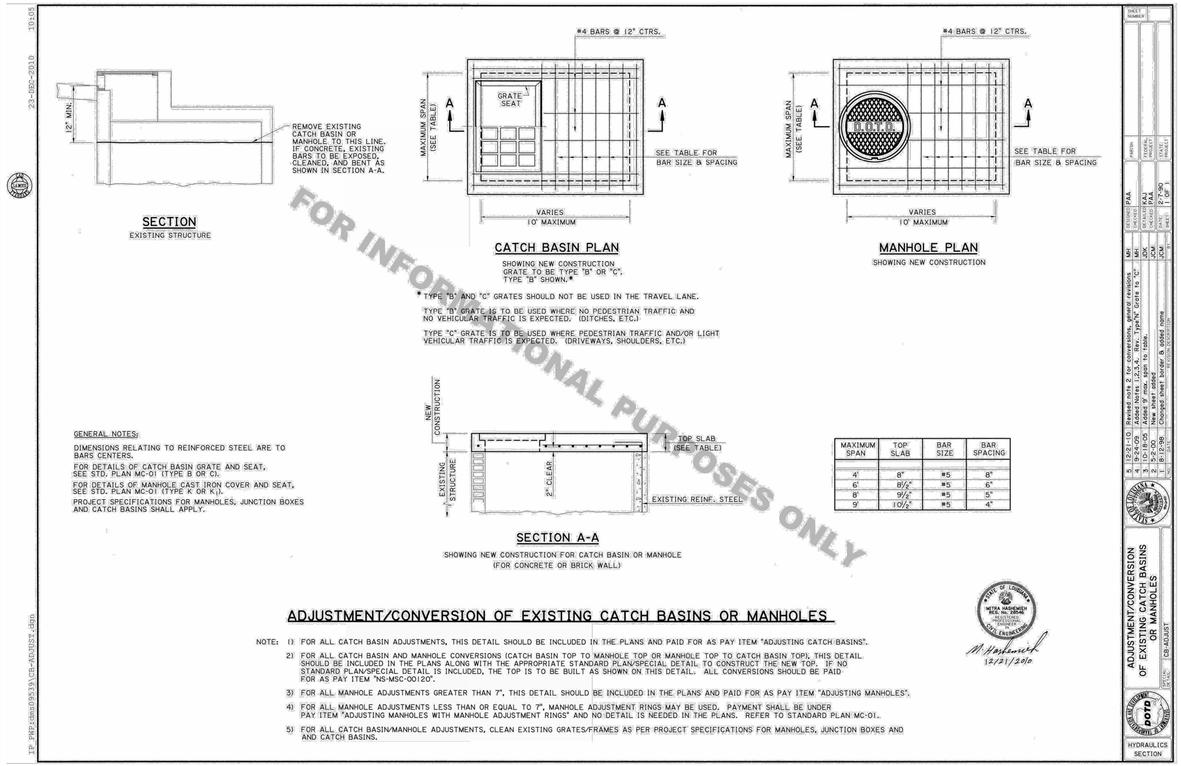
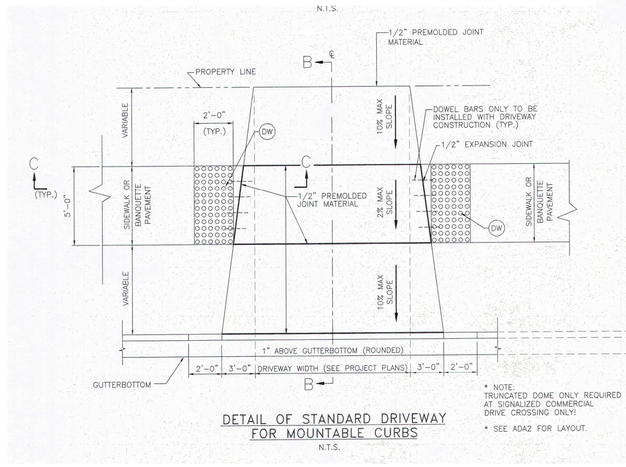
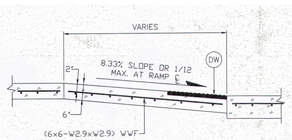
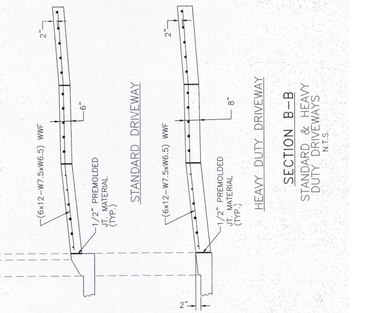


1 | CONVERSION OF EXISTING CATCH BASIN DETAIL
NOT TO SCALE



2 | STANDARD DRIVEWAY FOR MOUNTABLE CURBS
NOT TO SCALE





NOTES (*):

(1) FOR STANDARD DRIVEWAYS: DEPRESS ONLY WHEN DIRECTED BY THE FIELD ENGINEER.
(2) FOR HEAVY DUTY DRIVEWAYS: DEPRESS 3" AS SHOWN.
(3) MAXIMUM DRIVEWAY SLOPE IS 10%. ANYTHING EXCEEDING 10% SHOULD BE APPROVED BY THE DEPARTMENT.
(4) DETECTABLE WARNINGS, i.e. RAISED TRUNCATED DOMES SHALL BE USED AT SIGNALIZED COMMERCIAL DRIVEWAYS ONLY.
(5) RAISED TRUNCATED DOMES SHALL BE 0.9 INCHES IN NOMINAL DIAMETER, 0.2 INCHES IN NOMINAL HEIGHT, AND CENTERED 2.35 INCHES APART. THE AREA REQUIRED TO HAVE A DETECTABLE WARNING SHALL VISUALLY CONTRAST IN COLOR AND SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. (PROWAG, LATEST ED.)
(6) RAISED TRUNCATED DOMES SHALL BE 24" x 48" (MIN.) SYSTEMS. THE TILE TYPE, SIZE, SHAPE, INSTALLATION METHODS, ETC., MUST BE APPROVED BY THE D.P.W. BEFORE THE CONTRACTOR ORDERS HIS MATERIALS.
(7) MAINTAIN SIDEWALK ELEVATION THRU DRIVEWAYS.

(DW) DETECTABLE WARNINGS (DARK GREY) (ADA) TRUNCATED DOME TILE (TYP.) AS PER APPROVAL OF D.P.W. SEE NOTES (4) THRU (6).

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SITE DETAILS
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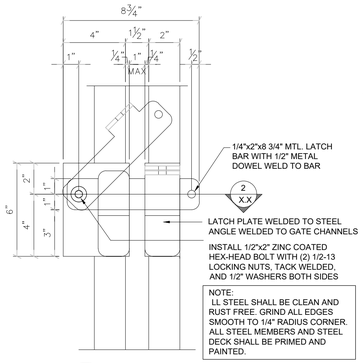
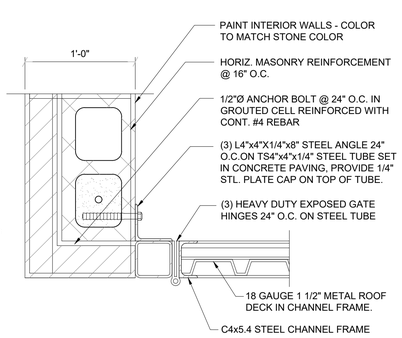
DP DESIGNS

SCALE NTS
PROJECT NUMBER
DRAWING FILE NAME C3.0-C3.2 SITE DETAIL

SHEET NUMBER
C3.3



1 A1.1 GATE LATCH DETAIL
SCALE: N.T.S.



2 A1.1 GATE HINGE DETAIL
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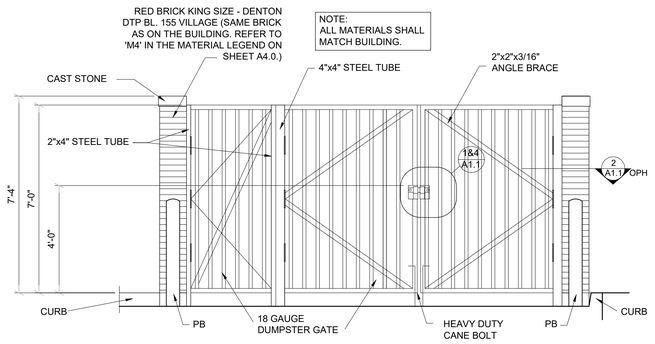
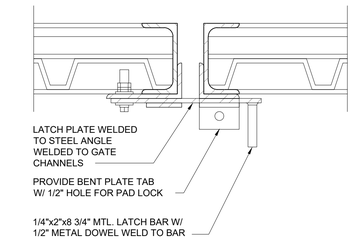


3 A1.1 DUMPSTER GATE ELEVATION
SCALE: 3/8" = 1'-0"



4 A1.1 GATE LATCH DETAIL
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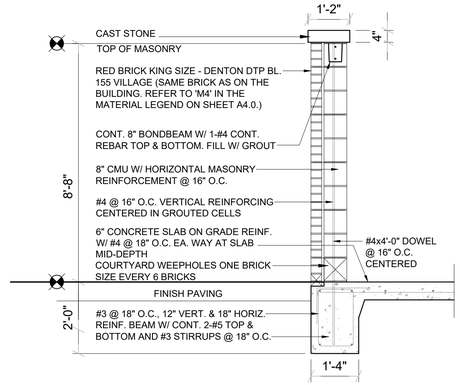
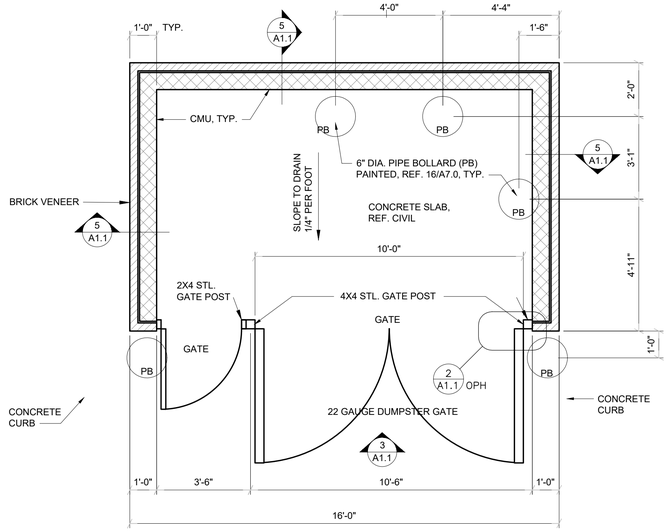
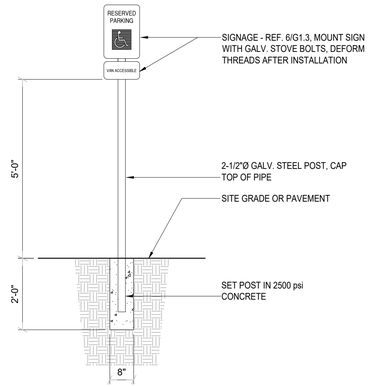


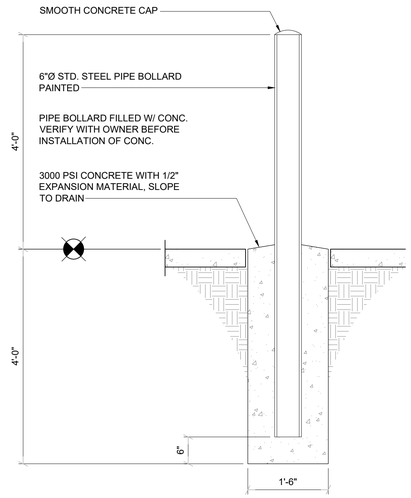
5 A1.1 DUMPSTER & COURTYARD SCREEN WALL SECTION
SCALE: 1/2" = 1'-0"



6 A1.1 DUMPSTER PLAN
SCALE: 3/8" = 1'-0"



7 A1.1 ACCESSIBLE PARKING SIGN
SCALE: 1/2" = 1'-0"



8 A1.1 PIPE BOLLARD DETAIL
SCALE: 3/4" = 1'-0"

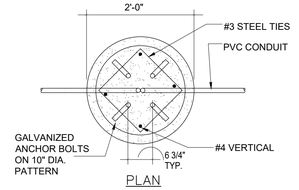
SITE LIGHT NOTES:
1. VERIFY ALL PAVING NOTES & DETAILS W/ CIVIL DWGS. AND SOILS REPORT

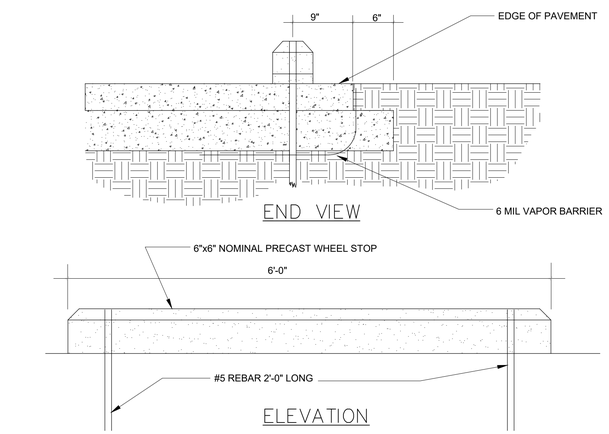
2. COORDINATE LOCATION WITH ELECTRICAL SITE PLAN.

3. VERIFY FIXTURE TYPE W/ OWNER PRIOR TO CONSTRUCTION.

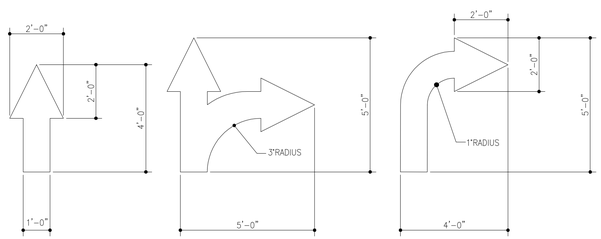
4. DRESS LIGHT POLE BASE IMMEDIATELY UPON REMOVAL OF SONOTUBE/FORM.

5. FIELD VERIFY YARD LIGHT LOCATION AND ENSURE A MINIMUM OF 10'-0" FROM ANY OVERHEAD LINES, ADDITIONAL RESTRICTIONS MAY APPLY BY CITY ORDINANCE, COORDINATE WITH POWER COMPANY.

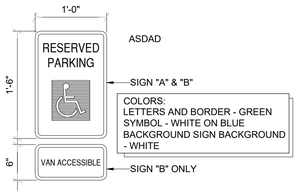




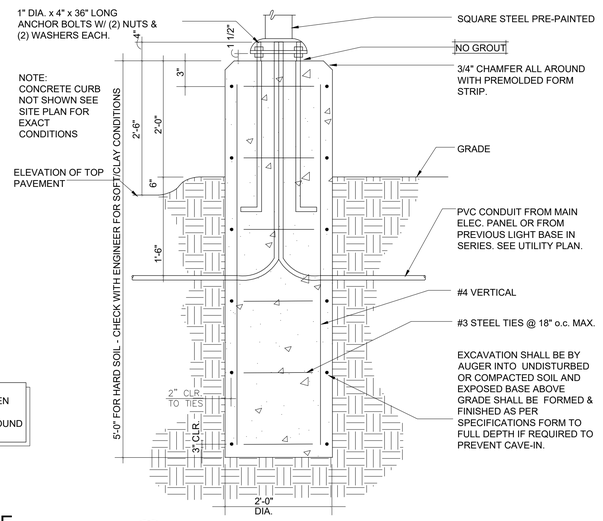
9 A1.1 PARKING BARRIER
SCALE: N.T.S



10 A1.1 PAVING DIRECTION ARROWS
SCALE: 1/4" = 1'-0"



11 A1.1 ACCESSIBLE SIGNAGE
SCALE: 1" = 1'-0"



12 A1.1 LIGHT POLE
SCALE: 1/4" = 1'-0"

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04-06-21

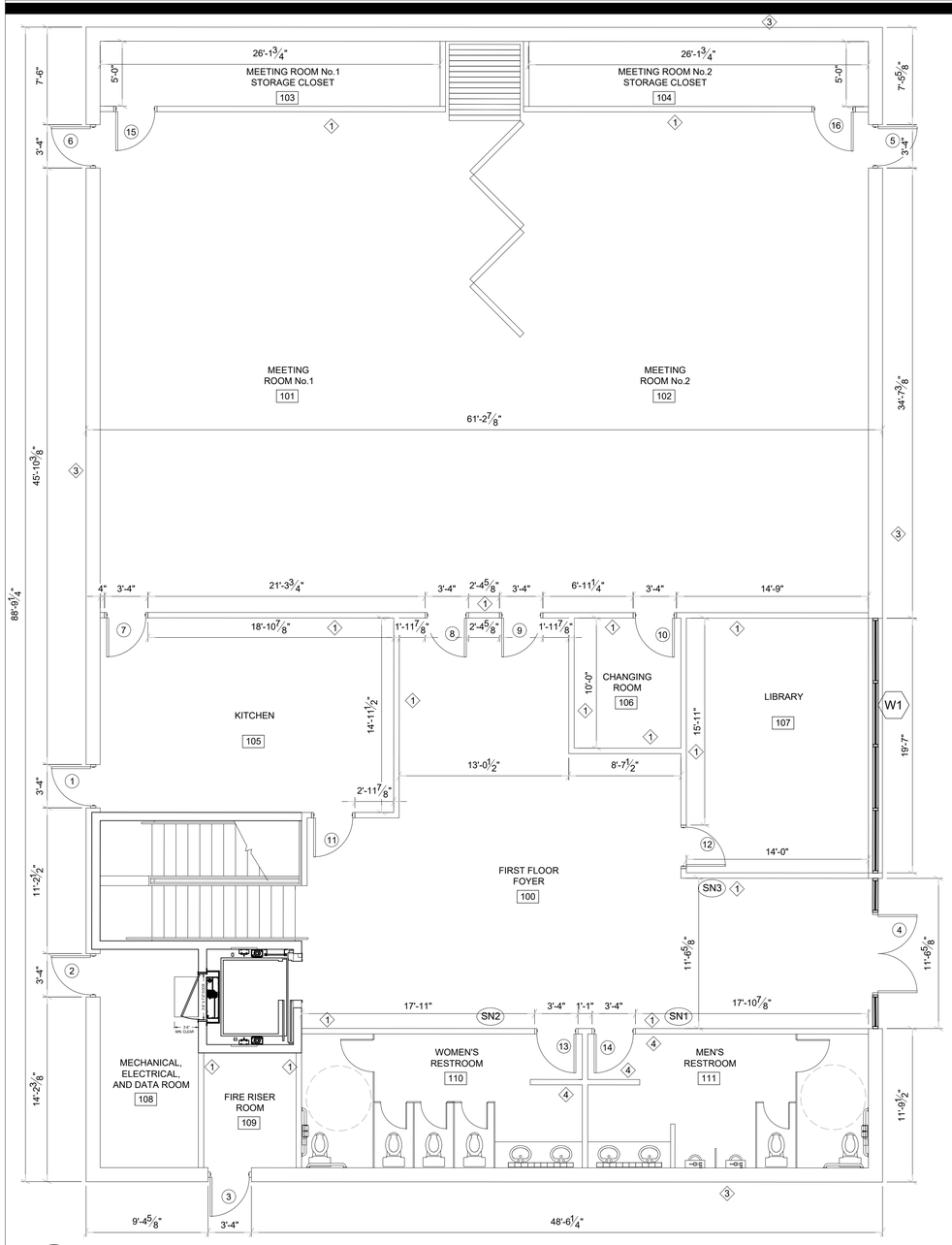
SITE DETAILS
MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

DATE	DESCRIPTION	BY

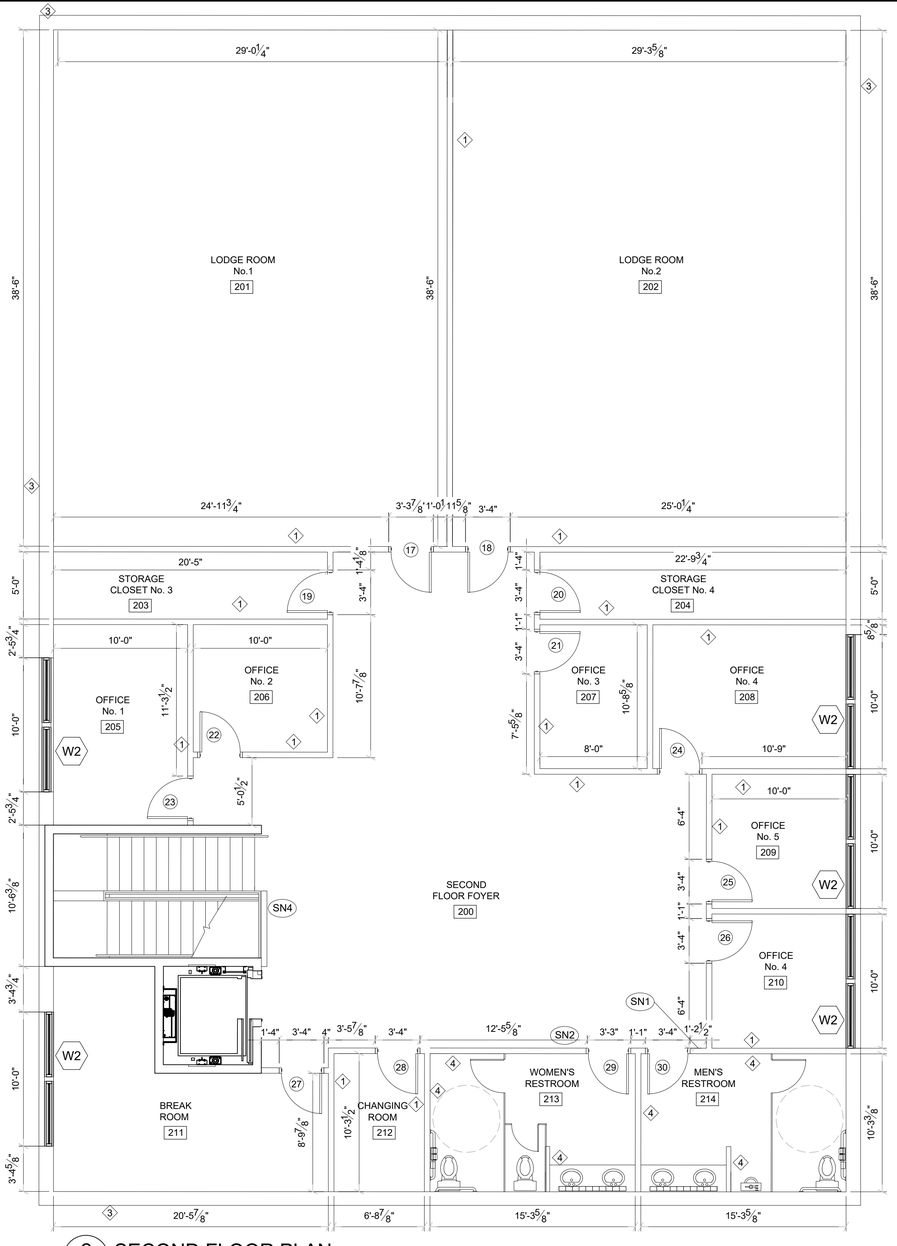
SCALE:
AS NOTED

PROJECT NO.
083-01

SHEET NO.
A1.1



1 FIRST FLOOR PLAN
A2.0 SCALE: 3/16" = 1'-0"



2 SECOND FLOOR PLAN
A2.0 SCALE: 3/16" = 1'-0"

GENERAL NOTES

1. CONTRACTORS SHALL NOT SCALE THESE DRAWINGS FOR CONSTRUCTION PURPOSES. IN THE EVENT OF OMISSION OF NECESSARY DIMENSIONS THE CONTRACTORS SHALL NOTIFY THE ARCHITECT AND/OR ENGINEER(S).
2. VERIFY ALL DIMENSIONS, CONDITIONS, AND GRADES AT JOB SITE PRIOR TO COMMENCING WORK.
3. VERIFY SIZE, LOCATION, AND CHARACTERISTICS, OF ALL WORK AND EQUIPMENT TO BE FURNISHED BY OWNER OR OTHERS, WITH THE MANUFACTURER OR SUPPLIER BEFORE ANY CONSTRUCTION PERTAINING TO SAME IS BEGUN.
4. VERIFY SIZE AND LOCATION OF ALL OPENINGS FOR MECHANICAL EQUIPMENT AND WORK WITH CONTRACTORS INVOLVED.
5. ERRORS AND/OR OMISSIONS IN ROOM, DOOR, AND WINDOW SCHEDULES DO NOT RELIEVE THE CONTRACTOR FROM EXECUTING WORK SHOWN ON DRAWINGS OR DESCRIBED IN SPECIFICATIONS.
6. ALL DOORS 5" FROM WALL TO DOOR OPENING U.N.O. PLACEMENT OF DOOR AND FRAME SHALL COMPLY TO ADA AND TAS ACCESSIBILITY STANDARDS REF. ADA SHEET.
7. ALL DIMENSIONS SHOWN TO FACE OF EXTERIOR WALLS ARE FACE OF STUD, ALL DIMENSIONS SHOWN TO INTERIOR WALLS ARE TO CENTERLINE OF STUD, OR FACE OF FINISH GYPSUM BOARD OR PLYWOOD.
8. ALL EXTERIOR WALLS SHALL BE 2x6 WOOD STUDS AT 16" O.C. W/ 5/8" WATER RESISTANT GYPSUM BOARD ON THE INTERIOR FACE, U.O.N. ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED.
9. ALL EXTERIOR JOINTS AROUND DOOR FRAMES & WINDOWS & AT ALL PENETRATIONS THROUGH BUILDING ENVELOPE SHALL BE SEALED USING SEALANT & CAULKING. ADDITIONALLY, FOAM INSULATION SHALL BE PROVIDED IN & AROUND ALL WINDOW AND/OR DOOR FRAMES WHERE METAL MEETS WOOD FRAMING PLUS ALL EXTERIOR WALL OPENINGS/PENETRATIONS.
10. ALL GLAZING WITHIN DOORS AND OPERABLE WINDOW, AND ALL GLAZING ADJACENT TO DOORS SHALL BE TEMPERED AS REQUIRED BY CURRENT BUILDING CODE .
11. ANY TIME THE BUILDING IS OCCUPIED, THE MEANS OF EGRESS SHALL BE ILLUMINATED AT AN INTENSITY OF NOT LESS THAN 1 FOOT-CANDLE AT THE FLOOR LEVEL. SEE ELECTRICAL DRAWINGS.
12. PROVIDE EXIT SIGNS FOR EGRESS IDENTIFICATION. SEE ELECTRICAL DRAWINGS.
13. ALL FINISH SURFACES SHALL HAVE A FLAME SPREAD CLASSIFICATION OF CLASS C OR HIGHER (FLAME SPREAD INDEX 76 THROUGH 200 & A SMOKE DENSITY RATING OF 450).
14. GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS PER LOCAL FIRE MARSHAL. GENERAL CONTRACTOR TO INSTALL.
15. PROVIDE 2x SOLID BLOCKING IN WALLS AS REQUIRED FOR REINFORCEMENT OF ALL GRAB BARS, RESTROOM FIXTURES, PLUMBING LINES, WALL BUMPERS AND MILLWORK ATTACHMENT, ETC.
16. PROVIDE APPROVED EGRESS ILLUMINATION AND ILLUMINATED EXIT SIGNS. SEE ELECTRICAL DRAWINGS.
17. PROVIDE APPROVED PANIC HARDWARE ON EXIT DOORS.

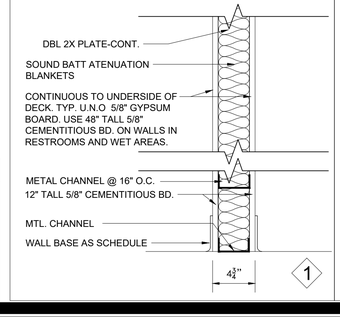
WALL TYPE NOTES

A. ALL DIMENSIONS ON PLANS UNLESS OTHERWISE NOTED ARE TO FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD AND FROM FACE OF INTERIOR FINISH SURFACE TO FACE OF EXTERIOR FINISH SURFACE.
B. FRAMER SHALL ALLOW FOR DRYWALL AND CORNER BEADS FOR PROPER FINISHED DIMENSIONS REQUIRED AT CRITICAL DIMENSIONS TO INSTALL EQUIPMENT.
C. REFER TO SECTIONS AND DETAILS FOR INSULATION THICKNESS AND "R" RATINGS.

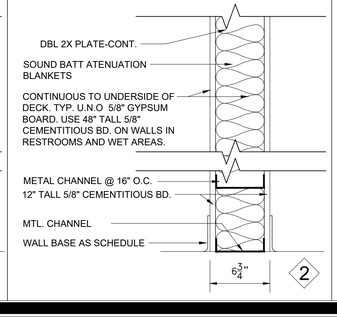
BLDG. SIGNAGE

SN1	MENS TOILET	(NOTE: ALL SIGNAGE IN THIS SCHEDULE TO BE PROVIDED BY GENERAL CONTRACTOR)
SN2	WOMENS TOILET	
SN3	OCCUPANCY SIGN	
SN4	EMERGENCY EXIT SIGN	

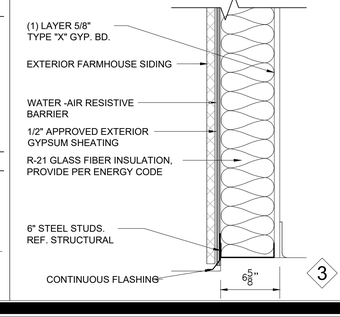
WALL TYPE 1 - INTERIOR WALL



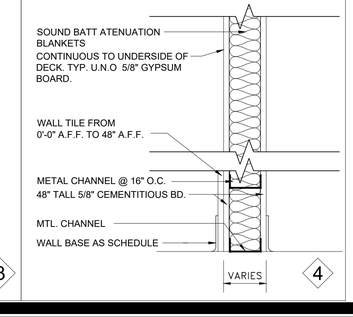
WALL TYPE 2 - INTERIOR WALL



WALL TYPE 3 - EXTERIOR WALL



WALL TYPE 4 - RR WET WALL



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04-06-21

DRAWN BY: DP
CHECKED BY: DP

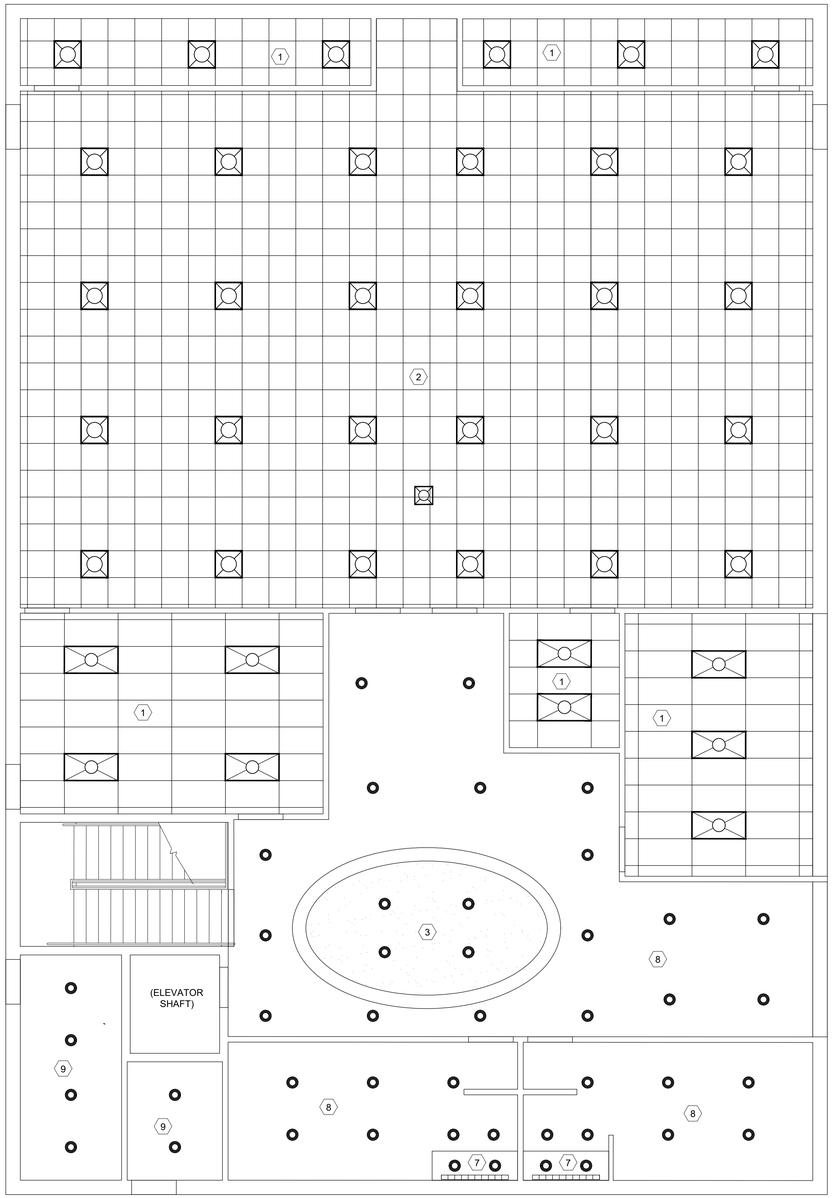
FLOOR PLANS
MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

DATE	DESCRIPTION	BY

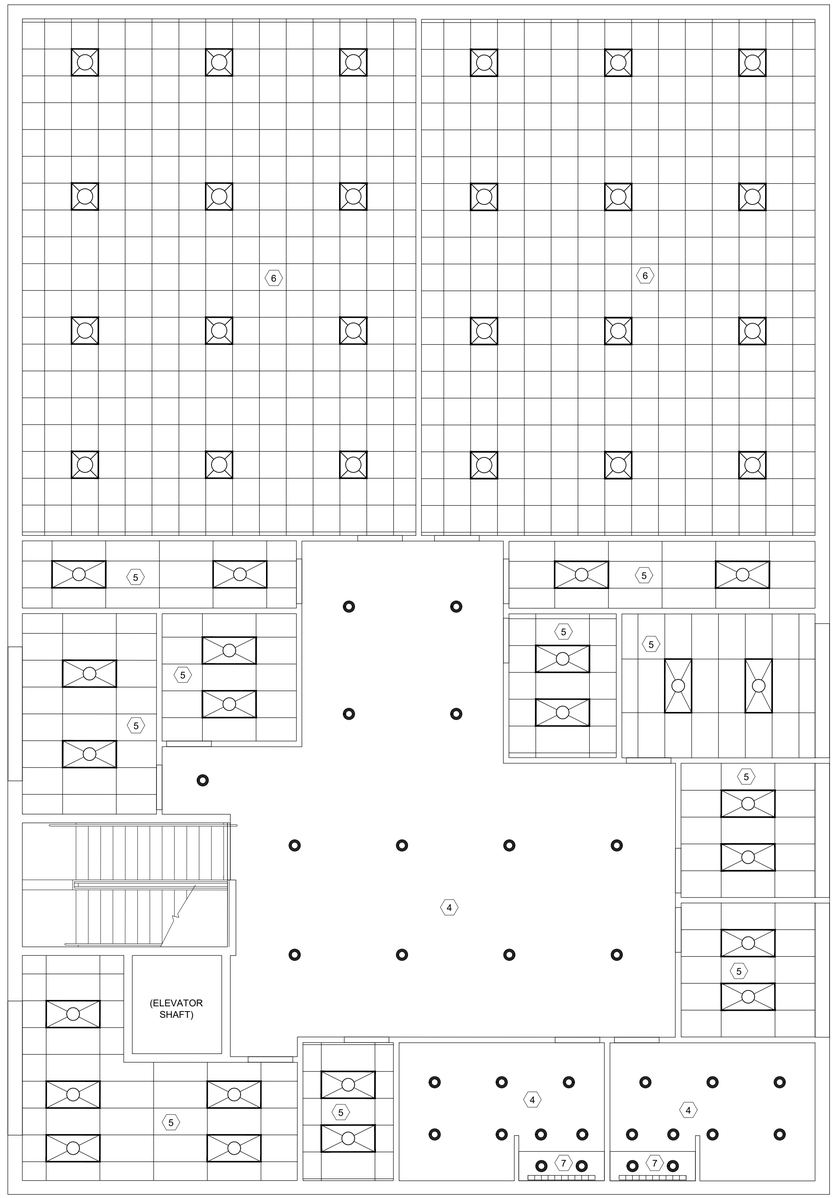
SCALE: AS NOTED

PROJECT NO. 083-01

SHEET NO. A2.0



1 A2.0 FIRST FLOOR - REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"



2 A2.0 SECOND FLOOR - REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"

R.C.P. GENERAL NOTES

1. A. VERIFY ALL PLACEMENTS OF LIGHTS WITH OWNER PRIOR TO INSTALLATION.
2. SEE ELECTRICAL PLANS FOR ADDITIONAL LIGHTING INFORMATION
3. ALL CEILING MATERIAL SHALL NOT EXCEED FLAME CLASS II - FLAME SPREAD INDEX 25-75
4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK FOR ALL TRADES INVOLVED IN THE CEILING WORK TO ENSURE THAT PROPER CLEARANCES FOR DUCTS, LIGHTS, PIPING, ETC. ARE MET AND THAT HE CEILING HEIGHTS NOTED ON THE DRAWING ARE MAINTAINED.
5. GENERAL CONTRACTOR TO VERIFY REQUIREMENTS AND QUANTITIES OF FIRE PROTECTION DEVICES INCLUDING SMOKE DETECTORS, DUCT SMOKE DETECTORS, EIRE ALARMS, RELATED SPEAKERS, STROBES, ETC. LIFE SAFETY INSTALLATIONS TO MEET REQUIREMENTS OF ALL APPLICABLE CODES AND ORDINANCES
6. ALL LIGHTING SHALL BE 20 FC AT 50" AFF.
7. CAULK JOINTS BETWEEN CEILING GRID AND ADJACENT SURFACES.

R.C.P. KEY NOTES

1. LAY-IN CEILING - 2X4 GRID @ 10'-0" A.F.F.
2. LAY-IN CEILING - 2X2 GRID @ 10'-0" A.F.F.
3. GYP. BD. CEILING @ 10'-9" A.F.F. SEE DETAIL 5/A2.1 FOR COVE LIGHTING DETAIL
4. GYP. BD. CEILING @ 9'-0" A.F.F.
5. LAY-IN CEILING - 2X4 GRID @ 9'-0" A.F.F.
6. LAY-IN CEILING - 2X2 GRID @ 9'-0" A.F.F.
7. BOTTOM OF FURDOWN @ 8'-0" A.F.F. REF: 4/A2.1
8. LAY-IN CEILING - 2X2 GRID @ 10'-0" A.F.F.
9. OPEN TO DECK

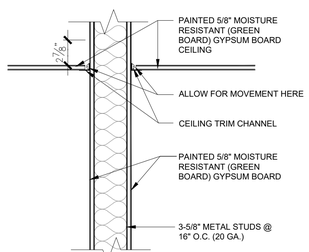
R.C.P. LEGEND

EXIT LIGHT

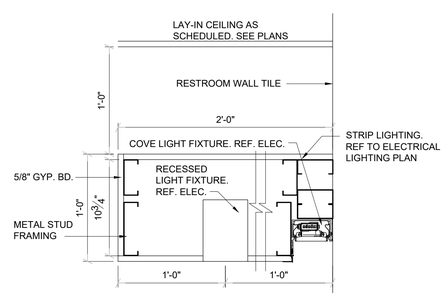
EMERGENCY EXIT LIGHT

RECESSED CEILING LIGHT FIXTURE

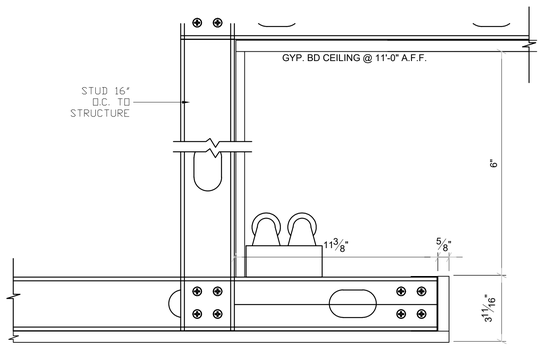
LED LIGHT FIXTURE



3 A2.1 CEILING DETAIL TOILET ROOM
SCALE:1-1/2" = 1'



4 A2.1 RESTROOM FUR-DOWN DETAIL
SCALE: 1-1/2" = 1'-0"



5 A2.1 LOBBY COVER LIGHT DETAIL
SCALE: 3" = 1'-0"

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STATE OF TEXAS
04-06-21

REFLECTED CEILING PLANS

MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

BY	DESCRIPTION	DATE

SCALE:
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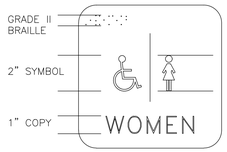
RESTROOM SIGNAGE

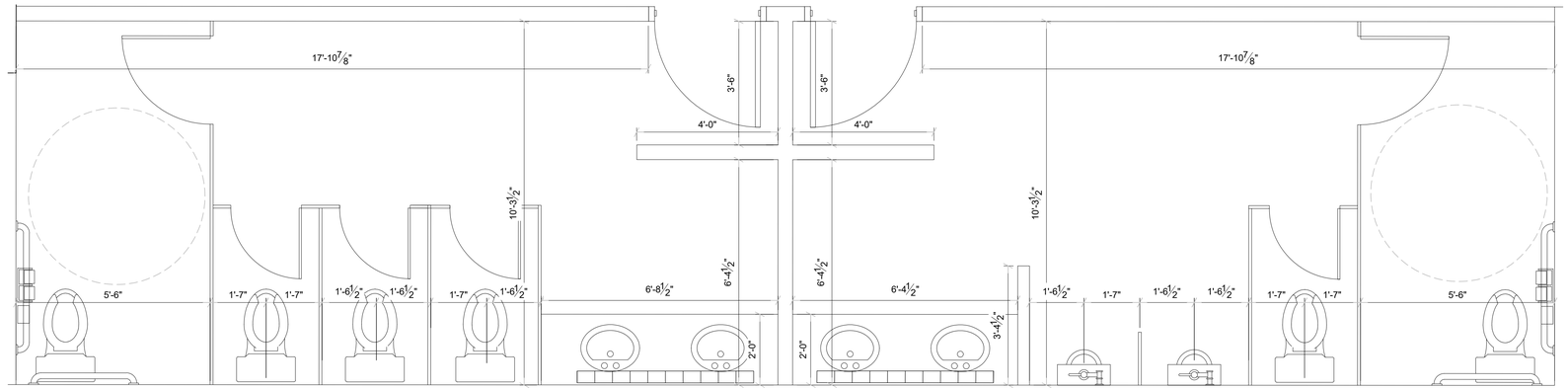


RESTROOM SIGNS:
RAISED IMAGE: BLUE
BACKGROUND: ALMOND
8" X 8" ACRYLIC PLASTIC
(1) MEN, (1) WOMEN

(SIGNAGE TO MEET ADA REQUIREMENTS)

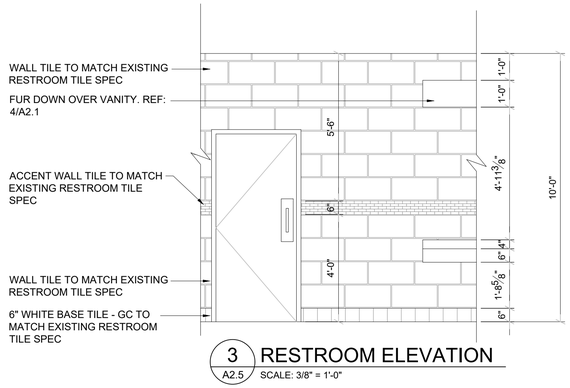
FIXTURE MOUNTING HEIGHT SCHEDULE

- LAVATORIES (MEASURED FROM FLOOR TO RIM)
  - ADULTS = 32" (29" MIN. KNEESPACE)
  - HANDICAPPED = 34" MAX.
- URINALS (MEASURED FROM FLOOR TO RIM)
  - ADULTS = 24"
  - HANDICAPPED = 17"
- WATER CLOSETS (MEASURED FROM FLOOR TO TOP OF SEAT)
  - ADULTS = 15"
  - HANDICAPPED = 17" TO 19"
- DRINKING FOUNTAINS AND E.W.C. (MEASURED FROM FLOOR TO SPOUT OUTLET)
  - ADULTS = 42"
  - HANDICAPPED = 36" MAX.(27" MIN. KNEESPACE)
- HANDICAPED GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR)
  - ADULTS = 34"
- PAPER TOWEL DISPENSERS (MEASURED FROM FLOOR TO TOWEL SLOT)
  - ADULTS = 40"
- TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)
  - ADULTS = 20"
- SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)
  - ADULTS = 38"
  - HANDICAPPED = 38"
- FEMININE NAPKIN VENDOR (MEASURED FROM FLOOR TO COIN SLOT)
  - ADULTS = 40"
- FEMININE NAPKIN DISPOSAL (MEASURED FROM FLOOR TO TOP OF UNIT)
  - ADULTS = 34"
- MIRRORS (MEASURED FROM FLOOR TO BOTTOM OF MIRROR)
  - ADULTS = 40"

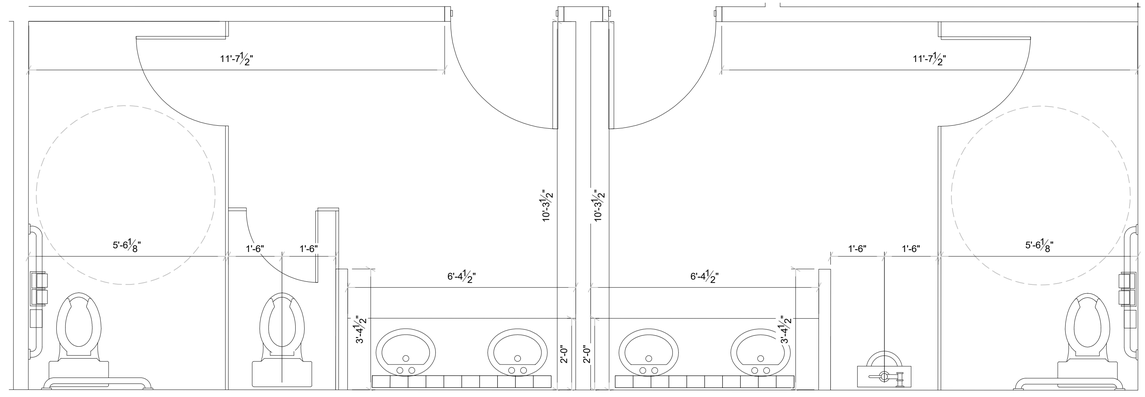


1 A2.5 FIRST FLOOR ENLARGED WOMEN'S RESTROOM FLOOR PLAN
SCALE: 3/8" = 1'-0"

2 A2.5 FIRST FLOOR ENLARGED MEN'S RESTROOM FLOOR PLAN
SCALE: 3/8" = 1'-0"



3 A2.5 RESTROOM ELEVATION
SCALE: 3/8" = 1'-0"

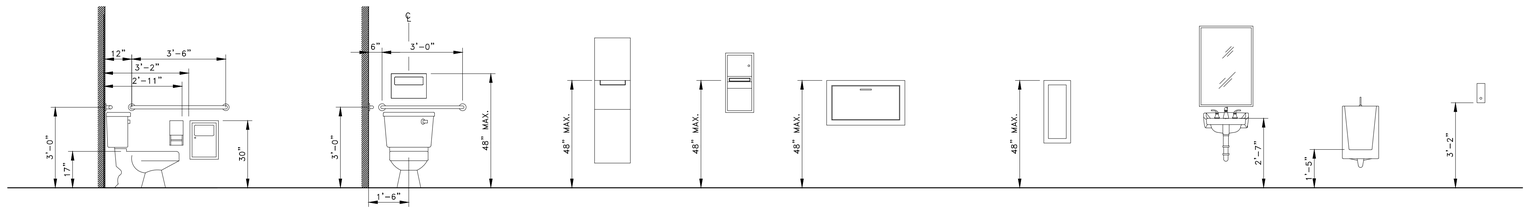


4 A2.5 SECOND FLOOR ENLARGED WOMEN'S RESTROOM FLOOR PLAN
SCALE: 3/8" = 1'-0"

5 A2.5 SECOND FLOOR ENLARGED MEN'S RESTROOM FLOOR PLAN
SCALE: 3/8" = 1'-0"

PLUMBING/ACCESSORY SCHEDULE

	DESCRIPTION	MFR / MODEL #	FURN. INST.	REMARKS	FINISH
R1	LAVATORY	KOHLER CAXTON RECTANGLE. MODEL # K-20000-0	CON/ CON	W/ SUPPORT ARMS CONCEALED IN WALL (TYP.) FINAL SELECTION BY OWNER.	WHITE
R2	WATER CLOSET (1) L.H. (1) R.H.	GC TO SELECT	CON/ CON	ELONGATED BOWL TOILET, TANK TYPE 1.6 G.P.F. 1/2 SUPPLY LINE. CHURCH 9500 FRONT OPEN SEAT	WHITE
R3	WASTE RECEPTACLE	BOBRICK B-279	CON/ CON	SURFACE MOUNTED @ +30" A.F.F.	STAINLESS STEEL
R4	GRAB BARS	BOBRICK B-6206	CON/ CON	36" REAR / 42" SIDES X 1 1/2" DIA. BARS SHALL NOT ROTATE IN THEIR FITTINGS - STRENGTH SHALL COMPLY WITH SUB-SECTION 4.26.3	STAINLESS STEEL TEXTURE GRIP
R5	TISSUE DISPENSER CONTINUOUS FLOW	BOBRICK B-2888	CON/ CON	SURFACE MOUNTED. MULTI ROLL CONTINUOUS FLOW	STAINLESS STEEL
R6	EXHAUST FAN SEE REFLECTED CEILING PLAN	SEE MECH. SCHEDULES FOR MODEL	CON/ CON	DIRECT WIRE TO LIGHT SWITCH	
R7	FAUCET	ULTRA FAUCETS SIGNATURE COLLECTION 8 IN. WIDESPREAD		2-HANDLE BATHROOM FAUCET WITH POP-UP DRAIN. LEVER TYPE PER ADA.	OIL RUBBED BRONZE
R8	MIRROR	GC TO SELECT. OWNER APPROVAL REQUIRED.			
R9	TOILET SEAT COVER DISPENSER	BOBRICK B-221	CON/ CON	SURFACE MOUNTED ABOVE TOILET @ +38".	STAINLESS STEEL
R10	SOAP DISPENSER	BOBRICK B-4112	CON/ CON	SURFACE MOUNTED @ LAVATORY	STAINLESS STEEL
R11	BABY CHANGING STATION	KOALA BEAR CARE	CON/ CON	WALL MOUNTED @ +32" A.F.F.	STAINLESS STEEL
R12	SANITARY NAPKIN DISPOSAL	BOBRICK B-270	CON/ CON	SURFACE MOUNTED, NEXT TO TISSUE DISPENSER	STAINLESS STEEL
R13	URINAL & FLUSH VALVE	GC TO SELECT	CON/ CON	WALL MOUNTED 17" TO LIP	WHITE CHROME
R14	PAPER TOWEL DISPENSER	BOBRICK B-262	CON/ CON	WALL MOUNTED	PLASTIC
R15	SANITARY NAPKIN VENDOR	BOBRICK B-3502	CON/ CON	WALL MOUNTED	
R16	HAND DRYER	EXCEL - XLERATOR	CON/ CON	SURFACE MOUNTED	WHITE
R17	PARTITION		CON/ CON		



STAINLESS STEEL GRAB BAR(S)
TOILET TISSUE DISPENSER
SANITARY NAPKIN DISPOSAL UNIT
STAINLESS STEEL GRAB BAR(S)
TOILET SEAT COVERS
PAPER TOWEL DISPENSER
WASTE RECEPTACLE
DIAPER CHANGING STATION
FIRE EXTINGUISHER
RE: 1A4.0 LIFE SAFETY PLAN FOR FIRE EXTINGUISHER LOCATIONS.
ANGLE FRAMED MIRROR
URINAL
SOAP DISPENSER

6 A2.5 ADA/FIXTURE MOUNTING HEIGHTS
SCALE: 3/8" = 1'-0"

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CHECKED BY: DP

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REGISTERED ARCHITECT
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ENLARGED RESTROOM FLOOR PLANS

MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
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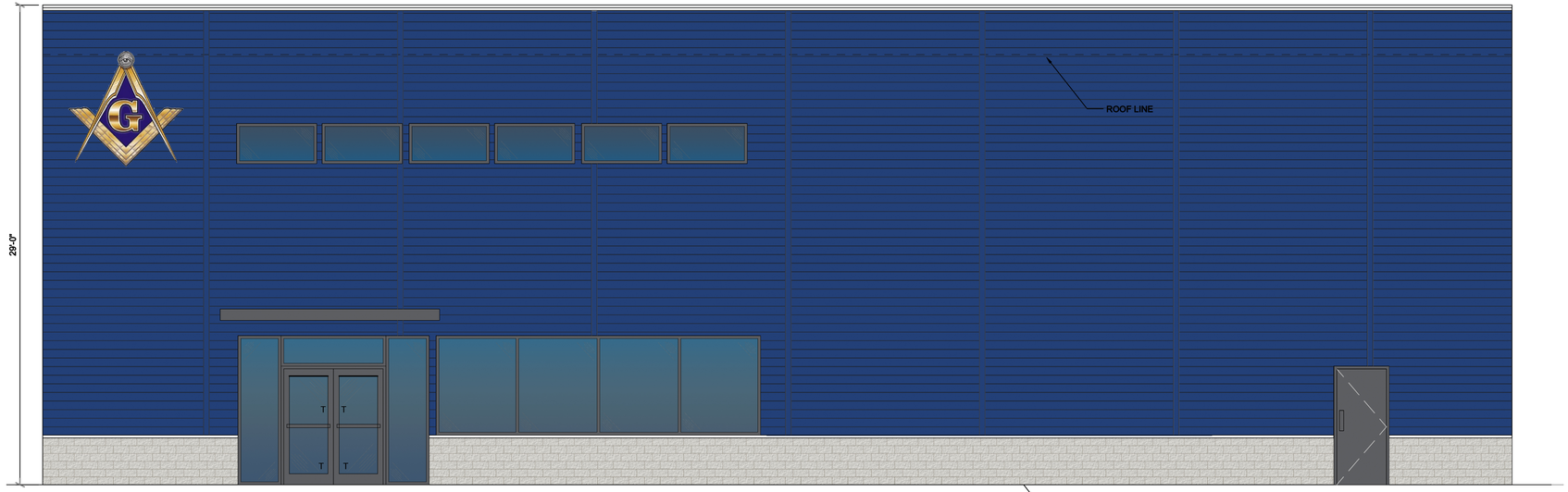
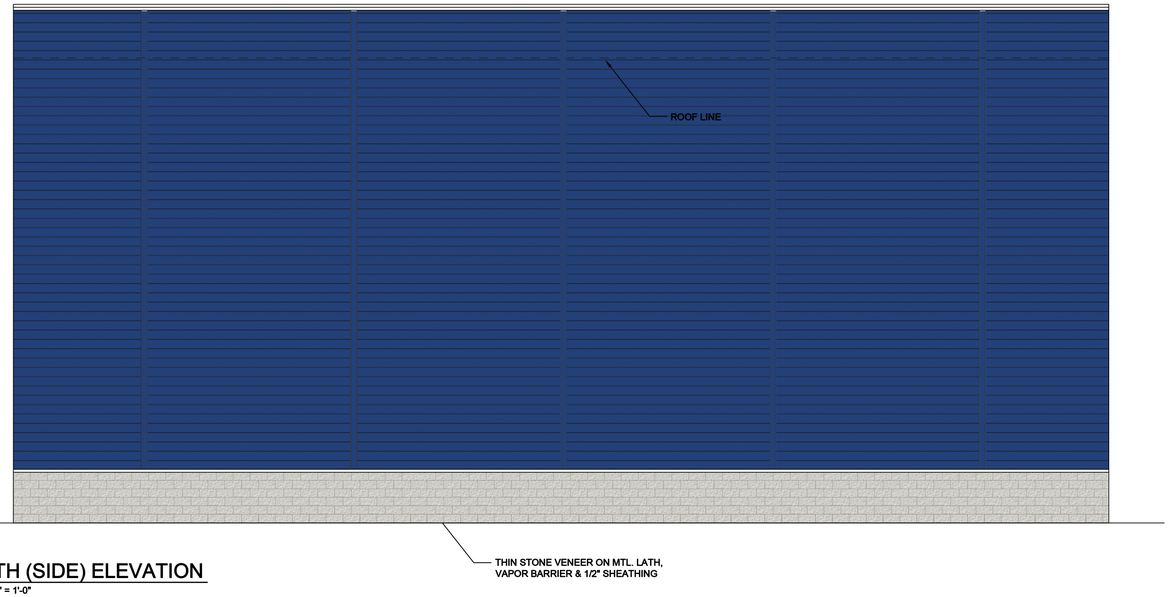
SHEET NO. A2.5



1 A4.0 **EAST (FRONT) ELEVATION**
SCALE: 1/4" = 1'-0"

GENERAL NOTE: ALL WINDOWS ARE TO HAVE CLEAR 1" INSULATED LOW "E" GLASS MEETING NATIONAL ENERGY CODE STANDARDS



2 A4.0 **NORTH (SIDE) ELEVATION**
SCALE: 1/4" = 1'-0"

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ELEVATIONS

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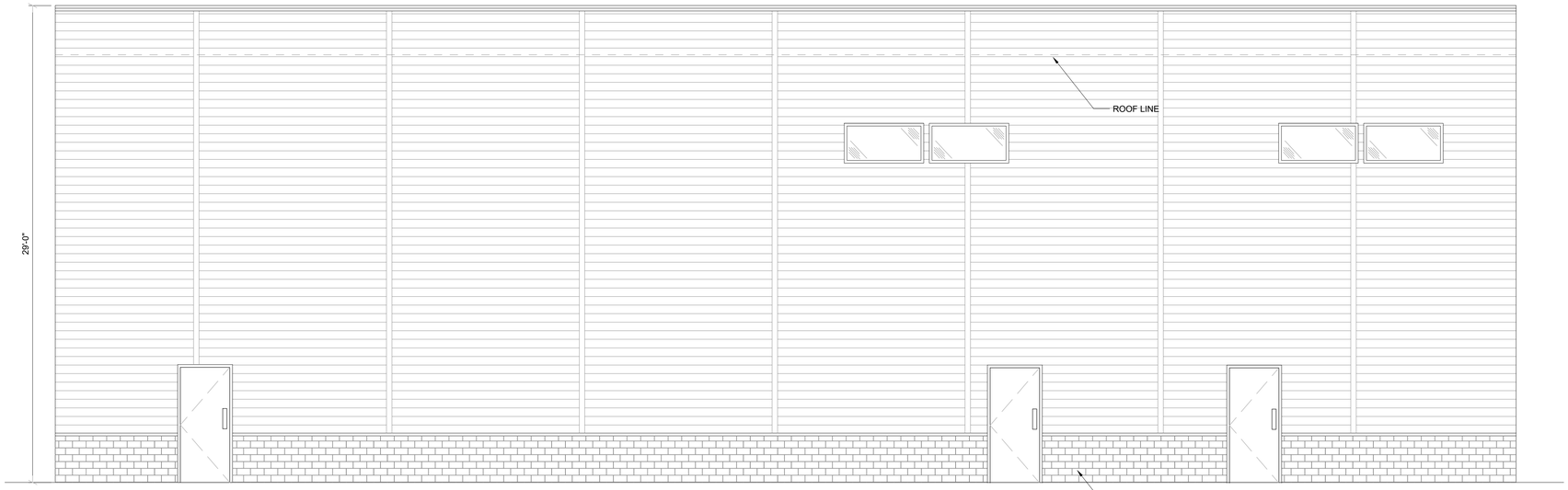

1 A4.1 WEST (REAR) ELEVATION
SCALE: 1/4" = 1'-0"

GENERAL NOTE: ALL WINDOWS ARE TO HAVE CLEAR 1" INSULATED LOW "E" GLASS MEETING NATIONAL ENERGY CODE STANDARDS

2 A4.1 SOUTH (SIDE) ELEVATION
SCALE: 1/4" = 1'-0"

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ELEVATIONS

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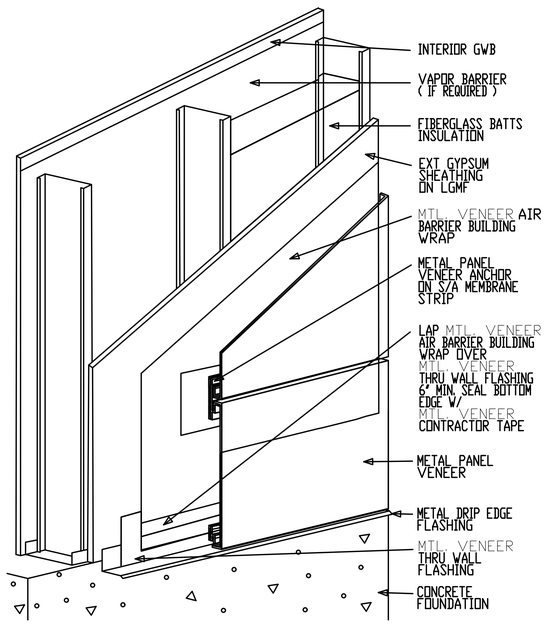
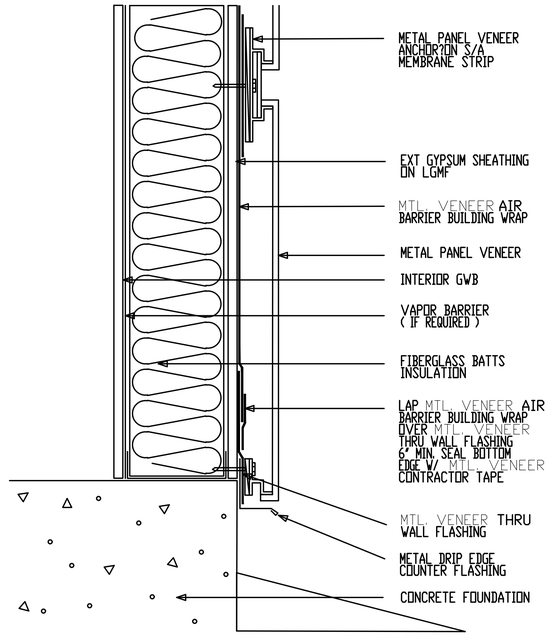
SHEET NO.
A4.1



1 A7.0 METAL BLDG. PANEL VENEER WALL DETAIL
SCALE: 3" = 1'-0"



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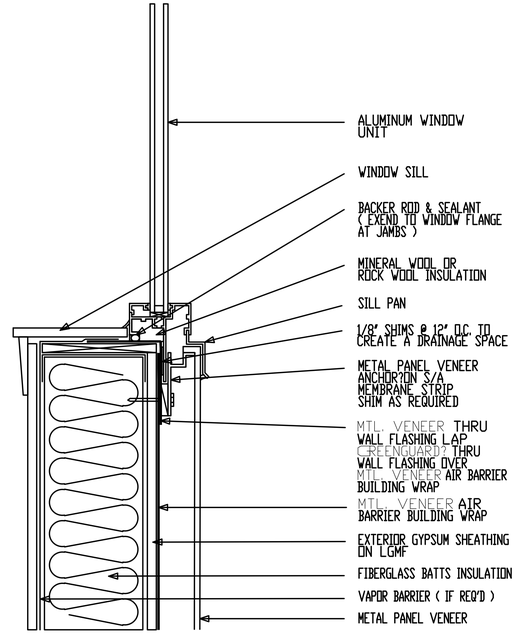
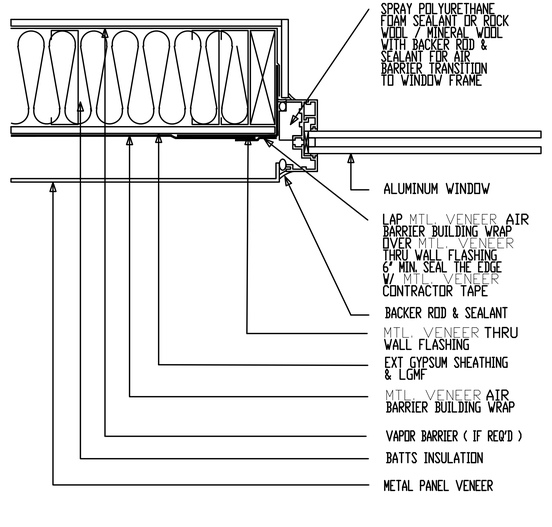


3 A7.0 METAL BLDG METAL PANEL VENEER FLANGED WINDOW SILL DETAIL
SCALE: 3" = 1'-0"



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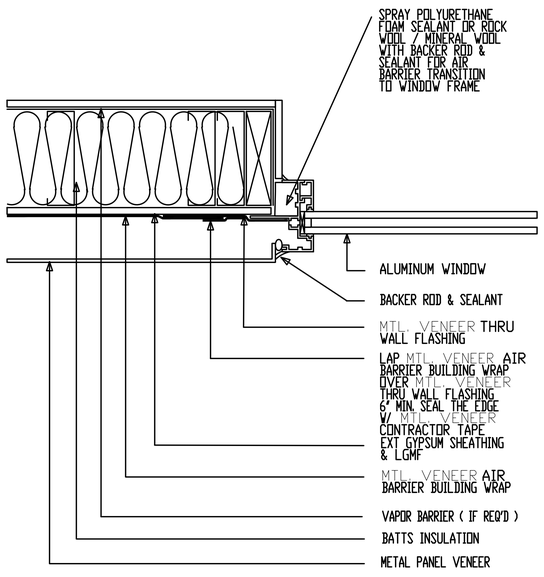
SCALE: 3" = 1'-0"



5 A7.0 METAL BLDG METAL PANEL VENEER FLANGED WINDOW DETAIL
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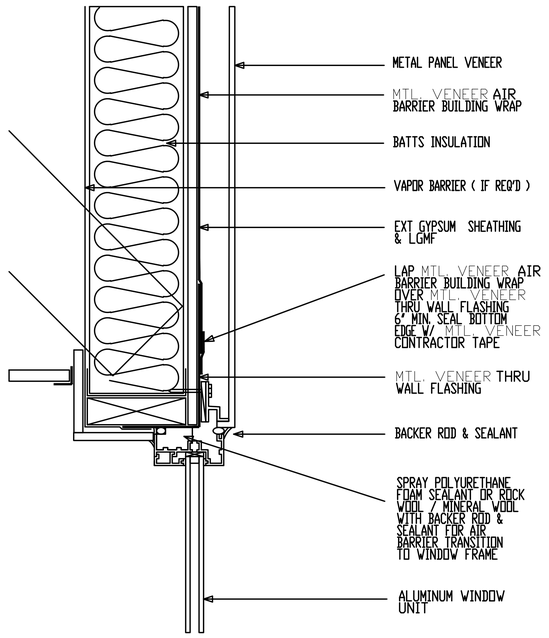

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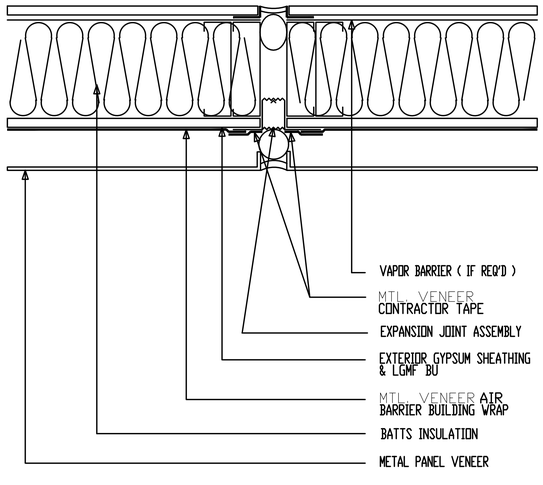
SCALE: 3" = 1'-0"



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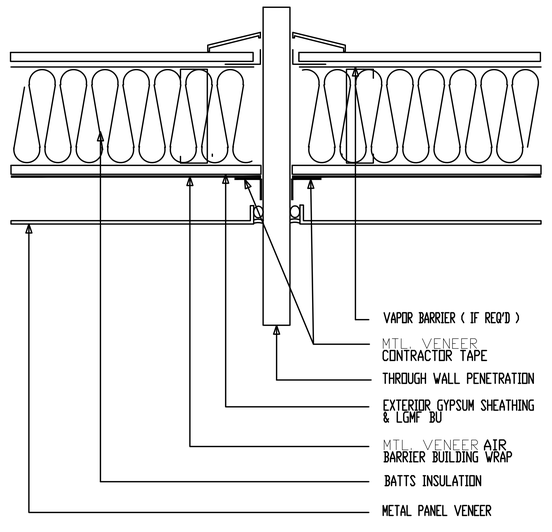
SCALE: 3" = 1'-0"



8 A7.0 METAL BLDG METAL PANEL VENEER PENETRATION DETAIL
SCALE: 3" = 1'-0"

DRAWN BY: DP
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04-06-21

METAL BUILDING DETAILS
MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

DATE	DESCRIPTION	BY

SCALE:
AS NOTED

PROJECT NO.
083-01

SHEET NO.
A7.0

SECTION 01010 – SUMMARY OF THE WORK

Descriptive Summary of the Work:

The work of this contract shall be as indicated on the drawings and as specified herein. The work shall be described as follows:

Construction of a single-story convenience store building including site and landscape development work; complete and ready to be equipped with furnishings by Owner.

Contractor Use of Premises:

General: During the entire construction period the Contractor shall have the exclusive use of the premises for construction operations, including full use of the site.

Owner Occupancy:

Partial Owner Occupancy: The Owner reserves the right to place and install equipment in completed areas of the building and to occupy completed areas prior to substantial completion. Placing of equipment and partial occupancy shall not constitute acceptance of the work or any part of the work.

END OF SECTION 01010

SECTION 01040 – PROJECT COORDINATION

Administration and Supervision:

Coordination: Coordinate various elements of the work and entities engaged to perform work; and coordinate the work by separate contractors (if any) and by Owner.

Survey / Recording:

General: Working from established lines and levels at or near project site, established and maintain dependable markers for lines and levels of the work. Calculate dimensions and measure for layout of work, do not scale the drawings. Maintain surveyor's log of layout work. Record deviations (if any) form drawing information on existing conditions, and review with Owner a time of discovery.

Installer Inspections: Require installer of each major unit of work to inspect substrate and conditions for installation, and to report (in writing) unsatisfactory conditions. Correct unsatisfactory conditions before proceeding. Inspect each product immediately before installation. Do not install damaged or defective products, materials or equipment.

Installation, General:

Comply with manufacturer's instructions and recommendations to extent printed information is more detailed or stringent than requirements contained directly in contract documents.

Timing: Install work during time and under conditions which will ensure best possible result, coordinate with required inspection and testing.

Anchor work securely in place, properly located by measured line and level, organized for best possible durability, and similar benefit to Owner's use. Isolate non-compatible materials from contract, sufficiently to prevent deterioration

Mount individual units of work at industry-recognized mounting heights, if not otherwise indicated, refer uncertainties to Owner before proceeding.

Cleaning and Protection:

General: Clean each element of work at time of installation. Provide sufficient maintenance and protection during construction to ensure freedom from damage and deterioration at time of substantial completion.

END OF SECTION 01040

WARRANTY

Part 1: GENERAL

1. The contractor(s) warrant, from the date of substantial completion, all materials, work, workmanship, and equipment the contractor(s) installed and provided, as described in the construction documents, specifications, and construction contract for a period of 1 year unless otherwise specified for a longer period of time.

2. For items of work when acceptance is delayed beyond Date of Substantial Completion, submit within ten days after acceptance, listing the date of acceptance as the beginning of the warranty period.

3. For all items the contractor(s) excludes from warranty, the contractor shall declare in writing to the project manager/owner prior to construction contract execution and start of work.

Part 2: FORM OF SUBMITTALS

A. Bind (2) two copies in commercial quality 8 1/2 x 11 inch three-ring binders, with hardback, cleanable, plastic covers.
B. Label cover of each binder with typed or printed title WARRANTIES, with title of Project; name, address and telephone number of Contractor; and name of responsible principal.
C. Table of Contents: Neatly typed, in the sequence of the Table of Contents of the Project Manual, with each item identified with the number and title of the specification section in which specified, and the name of Product or work item.
D. Separate each warranty or bond with index tab sheets keyed to the Table of Contents listing. Provide full information, using separate typed sheets as necessary. List subcontractor, supplier, and manufacturer, with name, address, and telephone number of responsible principal.

Part 3: PREPARATION OF SUBMITTALS

A. Obtain warranties and bonds, executed in duplicate by responsible subcontractors, suppliers, and manufacturers, within ten days after completion of the applicable item of work. Except for items put into use with Owner's permission, leave date of beginning of time of warranty until the date of substantial completion is determined.
B. Verify that documents are in proper form, contain full information, and are notarized.
C. Co-execute submittals when required.
D. Retain warranties until time specified for submittal.

Part 4: TIME OF SUBMITTALS

A. For equipment or component parts of equipment put into service during construction with Owner's or owner's representatives permission, submit documents within ten days after acceptance.
B. Make other submittals within ten days after Date of Substantial Completion, prior to final Application for Payment.

END OF SECTION

SECTION 01045 – CUTTING AND PATCHING

General: "Cutting and Patching" includes cutting into existing construction to provide for the installation or performance of other work and subsequent fitting and patching required to restore surfaces to their original condition.

Structural Work: Do not cut and patch structural work without written approval from structural engineer.

Visual/Quality Limitations: Do not cut and patch work exposed to view (exterior and interior) in a manner resulting in noticeable reduction of aesthetic qualities and similar qualities, as judged by Owner.

Materials:

General: Use materials for cutting and patching that are identical to existing materials. Use materials for cutting and patching that will result in equal or better performance characteristics.

Inspections: Before cutting, examine surfaces to be cut and patched and conditions under which the work is to be performed. If unsafe or otherwise unsatisfactory conditions are encountered, take corrective action before proceeding with the work.

Temporary Support: To prevent failure provide temporary support of work to be cut.

Protection: Protect other work during cutting and patching to prevent damage. Provide protection for adverse weather conditions for that part of the project that may be exposed during cutting and patching operations.

Cutting: Cut the work using methods that are least likely to damage work to be retained or adjoining work.

Patching: Patch with seams which are durable and as invisible as possible. Comply with specified tolerance for the work.

Restore exposed finishes of patched areas and where necessary extend finish restoration into retained adjoining work in a manner which will eliminate evidence of patching and refinishing.

END OF SECTION 01045

SECTION 01300 – SUBMITTALS

Progress Schedule: Within 15 days of the date established for "commencement of the work", submit a comprehensive progress schedule indicating a time bar for each significant category of work to be performed. Arrange schedule to indicate required sequencing and to show time allowances for submittals, inspections and similar time margins.

Schedule of Values: Prepare a schedule of values to show breakdown of Contract Sum corresponding with payment request breakdown and progress schedule line items. Show dollar value and percent of total for each unit of work scheduled. Submit not less than 7 days prior to first payment request. Revise each time schedule is affected by change order or other revision.

Payment Requests: Submit a request each calendar month. Use Owner's form, fully completed and executed.

Shop Drawings, Product Data and Samples:

General: Coordinate submittal with the progress schedule and actual work progress. Allow 2 weeks for the Owner's review. Provide additional copies as required by the governing authorities.

Shop Drawings: Submit one opaque blue/black line print and one correctable, reproducible transparency. The transparency will be processed and returned. After approval, print the processed transparency for job use and distribute. Resubmit disapproved submittals until approval is received.

Product Data: Mark each copy to indicate the actual product to be provided; show selections from among options in the manufacturer's printed product data. Submit 2 copies to Owner; submittal is for information and record purposes only.

Samples: Submit 3 sets of samples; one set will be returned. Provide 3 or more samples in each set where variations in color, pattern or texture are observable; show average condition and extreme range of variations. Submit full documentation with each set. Maintain returned set at project site for purpose of quality control comparisons.

Miscellaneous Submittals: Provide copies of miscellaneous submittals as follows:

Survey Data: Submit 2 copies, except provide 10 prints of completed project property survey.

Warranties: Submit 2 executed copies, plus additional copies as required for maintenance manual.

Field Records: 4 copies, including one copy which will be returned for inclusion in the submittal of record documents.

Maintenance Manuals: Submit 2 bound copies.

Record Drawings: Submit original maintained marked up prints.

END OF SECTION 01300

SECTION 01500 – TEMPORARY FACILITIES

Description of Requirements: Provide temporary services and facilities ready for use when first needed to avoid delay in the work. Maintain, expand and modify as needed. Do not remove until no longer needed, or replaced by authorized use of permanent facilities.

Use Charges: Usage charges for temporary services or facilities are not chargeable to the Owner.

Standards: Comply with the requirements of applicable local laws and/or codes. Install and maintain temporary facilities and utilities in a safe, secure and complete condition throughout their use.

Temporary Utility Installation: Engage the local utility company to install temporary service or to make connections to existing service. Arrange with the companies and existing users for an acceptable time when service can be interrupted to make connections.

Water Service: Install temporary potable water service and distribution piping of sizes and pressures adequate for construction purposes. Sterilize piping prior to use. Provide one 3/4" flexible rubber hose, 100 feet long with an adjustable nozzle at each outlet.

Electric Power Service: Provide weather tight, grounded temporary electrical service-entrance and distribution system. Comply with applicable requirements of NEMA, NECA and UL standards and governing regulations. Install temporary lighting of adequate illumination levels to perform the work specified. Provide convenience power as required to perform the work through use of grounded receptacles and extension cords until building power is available.

Sewers and Drainage: Connect temporary sewers to the municipal sewer system in the manner directed by sewer department officials. If sewers cannot be used, provide drainage ditches, dry wells, or similar facilities. If neither sewer nor drainage facilities can be used, provide containers for effluent removal and disposal.

Temporary Heat: Provide temporary heat where needed for performance of work, for curing or drying of recently installed work for protection of work in place from adverse effects of low temperature or high humidity. Provide UL or FM tested and labeled heating units known to be safe and without adverse effect upon work in place or being installed. Coordinate with ventilation requirements to produce the ambient condition and minimize fuel or energy consumption.

Sanitary Facilities: Sanitary facilities include temporary toilets, wash facilities and drinking water fixtures. Comply with governing regulations including safety and health codes for the type, number, location, operation and maintenance of fixtures and facilities. Locate so that no one will need to walk more than 2 stories vertically or 200 feet horizontally to reach these facilities.

First Aid Supplies: Comply with governing regulations and recognized recommendations within the construction industry.

Temporary Enclosure: Provide temporary enclosures of materials, equipment, work in progress and completed portions of the work to provide protection from exposure, foul weather, other construction operations, and similar activities. Provide enclosures whether temporary heat is needed and the permanent building enclosure is not completed and there is no other provision for containment of heat. Coordinate with ventilating and material drying or curing requirements to avoid dangerous conditions.

Collection and Disposal of Wastes: Establish a system for daily collection and disposal of waste materials. Enforce requirements strictly. Do not hold collected materials longer than 7 days during normal weather or 3 days when the daily temperature is expected to rise above 80 F (27 c). Handle waste material that are hazardous, dangerous, or unsanitary separately from other waste by containerizing. Dispose of waste material in a lawful manner.

company to perform extermination and control procedures at regular intervals so that the project will be relatively free of pests and their residues at substantial completion.

Miscellaneous Services and Facilities: Design, construct and maintain miscellaneous services and facilities as needed to accommodate performance of the work, including temporary stairs, ramps, ladders, staging shoring, scaffolding, temporary partitions, waste chutes and similar items.

Barricades, Warning Signs and Lights: Comply with recognized standards and code requirements for erection of substantial barricades where needed to prevent accidents. Paint with appropriate colors and warning to inform personnel at the site and the public, of the hazard being protected against. Provide lighting where needed, including flashing red light where appropriate.

Security Enclosure and Lockup: Install substantial temporary enclosure of partially completed areas of construction. Provide locking entrances adequate to prevent unauthorized entrance, vandalism, theft and similar violations of project security.

Environmental Protection: Conduct construction activities, and by methods that comply with environmental regulations, minimize the possibility that air, waterways and subsoil might be contaminated or polluted, or that other undesirable effects might result from the performance of work at the site. Avoid the use of tools and equipment which produce harmful noise. Restrict the use of noise making tools and equipment to hours of use that will minimize complaints.

Operation, Termination and Removal:

Supervision: Limit availability of temporary services and facilities to essential and intended uses to minimize waste and abuse. Do not permit temporary installations to be abused or endangered.

Maintenance: Operate and maintain temporary services and facilities in good operating condition and in a safe and efficient manner until removal is authorized. Do not overload services or facilities. Protect from damage by freezing temperatures and similar elements. Do not allow unsanitary conditions, public nuisances or hazardous conditions to develop or persist on the site.

Protection: Prevent water filled piping form freezing. Maintain markers for underground lines. Protect from damage during excavation.

Termination and Removal: Remove each temporary service and facility promptly when need has ended, or when replaced by use of a permanent facility, but no later than substantial completion. Complete, or, if necessary, restore permanent work delayed because of interference with the temporary service or facility. Repair damaged work, clean exposed surfaces and replace work which cannot be repaired.

END OF SECTION 01500

SECTION 01700 – PROJECT CLOSE-OUT

Description of Requirements: Provisions of this section apply to the procedural requirements for the actual close-out of the work, not to administrative matters such as final payment or the change over of insurance. Close-out requirements of the work; they also apply to individual portions of completed work as well as the total work. Specific requirements contained in other sections have precedence over the general requirements contained in this section.

Procedures at Substantial Completion:

Prerequisites: Comply with the General Conditions and complete the following before requesting inspection of the work, or a designated portion of the work, for certification of substantial completion.

Submit executed warranties, workmanship bonds, maintenance agreements, inspection certificates and similar required documentation for specific units of work, enabling Owner's unrestricted occupancy and use.

Submit record documentation, maintenance manuals, tools, spare parts, keys and similar operational items.

Complete instruction of Owner's operating personnel, and start-up of systems.

Complete final cleaning, and remove temporary facilities and tools.

Inspection Procedures: Upon receipt of Contractor's request. Owner will either proceed with inspection or advise contractor of prerequisites not fulfilled. Following initial inspection, Owner will either prepare certificate of substantial completion, or advise Contractor of work which must be performed prior to issuance of the certificate of substantial completion. The Owner will repeat the inspection when requested and assure that the work has been substantially completed. Results of the completed inspection will form the initial "punch list" for final acceptance.

Procedures at Final Acceptance: The Owner will re-inspect the work upon receipt of the Contractor's notice that, except for those items whose completion has been delayed due to circumstances that are acceptable to the Owner, the work has been complete, including punch-list items form earlier inspection. Upon completion of re-inspection, the Owner will either grant final acceptance and final payment, or will advise the Contractor of work not completed or obligations not fulfilled as required for final acceptance. If necessary, this procedure will be repeated. If required to be re-inspected more than one time, the Owner may deduct the cost of re-inspection from final payment.

Record Documentation:

Record Drawings: Maintain a complete set of either blue or black line prints of the contract drawings and shop drawings for record mark-up purposes throughout the Contract Time. Mark-up these drawings during the course of the work to show both changes and the actual installation, in sufficient detail to form a complete record for the Owner's purposes. Give particular attention to work which will be concealed and difficult to measure and record at a later date, and work which may require servicing or replacement during the life of the project. Require the entities marking prints to sign and date each mark-up. Bind prints into manageable sets, with durable paper covers, appropriately labeled.

Maintenance Manuals: Provide 3-ring vinyl-covered binders containing required maintenance manuals, properly identified and indexed. Include operation and maintenance instructions extended to cover emergencies, spare parts, warranties, inspection procedures, diagrams, safety, security and similar appropriate date for each system or equipment item.

General Close-Out Requirements:

Operation Instructions: Require each installer of systems requiring continued operation and maintenance by Owner's operation personnel, to provide on-location instruction to Owner's personnel, sufficient to ensure safe, secure, efficient, non-failing utilization and operation of systems. Provide instructions for the following categories of work.

Mechanical/electrical/electronic system (not limited to work of Divisions 15 and 16).

Live plant materials and lawns.

Roofing, flashing, joint sealers.

Floor finishes.

Final Cleaning: At the time of project close out, clean or re-clean the work to the condition expected from a normal, commercial building cleaning and maintenance program. Complete the following cleaning operations before requesting the Owner's inspection for certification of substantial completion.

Remove non-permanent protection and labels.
Polish glass.
Clean exposed finishes.
Touch-up minor finish damage.
Clean or replace mechanical systems filters.
Remove debris.
Broom clean unoccupied spaces.
Sanitize pluming and food service facilities.
Clean light fixtures and replace burned-out lamps.
Sweep and wash paved areas.
Police yards and grounds.

END OF SECTION 01700

SECTION 02060 – BUILDING DEMOLITION

Extent of building demolition work is shown on drawings.

Demolition includes complete wrecking of structures and removal and disposal of demolished materials.

Condition of Structures: Owner assumes no responsibility for actual condition of structures to be demolished.

Traffic: Do not close or obstruct streets, walks, or other occupied or used facilities without permission from authorities having jurisdiction.

Damage: Promptly repair damages caused to adjacent facilities by demolition operations at no cost to Owner.

Utility Services: Disconnect and seal utilities serving structures to be demolished, prior to start of demolition work.

Building Demolition: Demolish building completely and remove from site. Use such methods as required to complete work within limitations of governing regulations.

Below-Grade Construction: Demolish and remove below-grade construction and concrete slabs on grade.

Filling Basements and Voids: Completely fill below-grade areas and voids resulting from demolition of structures.

Use satisfactory soil materials consisting of stone, gravel and sand, free from debris, trash, frozen material, roots and other organic matter.

Prior to placement of fill materials, ensure that areas to be filled are free of standing water, frost, frozen material, trash and debris.

Place fill materials in horizontal layers not exceeding 8" in loose depth. Compact each layer at optimum moisture content of fill material to a density equal to original adjacent ground, unless subsequent excavation for new work is required.

After fill placement and compaction, grade surface to meet adjacent contours and to provide flow to surface drainage structures.

Disposal: Remove from site all debris, rubbish, and other materials resulting from demolition operations.

Burning of removed materials from demolished structures will not be permitted on site.

END OF SECTION 02060

SECTION 02110 – SITE CLEARING

Protect existing trees and vegetation to remain from physical damage.

Site Clearing: Remove trees, shrubs, grass and other vegetation, improvements or obstructions as indicated or which interfere with new construction. Removal includes digging out stump and roots.

Strip and stockpile topsoil that will be reused in the work.

Salvageable Items: Carefully remove items indicated to be salvaged, and store on Owner's premises whether indicated or directed.

Control air pollution caused by dust and dirt; comply with governing regulation.

Grade ground surface to conform to required contours and to provide surface drainage.

Dispose of removed and demolished items, including trash and debris, off Owner's property.

Burning of waste materials on site is not permitted.

END OF SECTION 02110

SECTION 02200 – EARTHWORK

Existing Utilities: Locate by hand excavation and provide protection from damage.

Protection: Protect structures, utilities, sidewalks, pavements and other facilities in areas of work. Barricade open excavations and provide warning lights. Comply with regulations of authorities having jurisdiction.

Provide bracing and sharing as required in excavation, to maintain sides and to protect adjacent structures from settlement, complying with local codes and regulations. Maintain until excavations are backfilled.

Provide trench safety drawings if required by local codes.

Satisfactory soil materials are as those with minimum or no potential for swelling or shrinking such as sandy clays or clayey sands and complying with ASTM D2487 soil classification groups GW, GP, GM, SM, SW and SP.

Unsatisfactory soil materials are as those with high potential for swelling or shrinkage or containing organic materials and complying with ASTM D2487 soil classification groups GC, SC, ML, MH, CL, CH, OL, OH and PT.

Sub base Fill Material: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, or crushed slag free of vegetation, debris or other objectionable materials.

Excavation: Remove and dispose of material encountered to obtain required subgrade elevations.

Rock excavation includes removal and disposal of solid rock boulders over 1/2 cu. yd.

If encountered, rock excavation will be paid for in accordance with contract conditions relative to changes in work and the following:

Rock payment lines are limited to the following:

One foot outside perimeter of footing.

In pipe trenches 6" below invert elevation of pipe and 2 ft. wider than inside diameter of pipe, but not less than 3 ft. minimum trench width.

Actual outside dimension of concrete work where no forms are required.

Under slabs on grade, 6" below bottom of concrete slab.

Back fill and Fill: Place and compact acceptable soil material in 8" layers to required elevations. Use soil material free of clay, rock or gravel larger than 2" in any dimension, debris, vegetable matter, waste and frozen materials. Use sub-base material where indicated under piping or conduit.

Compaction: Compact each layer of back fill and fill soil materials and the top 12" of sub grade for structures, slabs, steps and pavements to 90% maximum density for cohesive soils and 95% density for cohesive soils and 95% relative density for cohesion less soils. At lawns or unpaved areas, 85% max. density for cohesive soils and 90% relative density for cohesionless soils.

Grading: Grade areas indicated, including adjacent transition areas, with uniform levels or slopes between finish elevations. Shape surface of areas to within 0.10' above or below required sub grade elevation, compacted as required.

Maintenance: Repair and re-establish grades in settled, eroded, rutted or otherwise damaged areas.

Disposal: Remove excess excavated material, trash, debris and waste material from site.

END OF SECTION 02200

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REGISTERED ARCHITECT
JOHNNY LIMONES
27712
STATE OF TEXAS
04-06-21

DRAWN BY: DP
CHECKED BY: DP

SPECIFICATIONS
MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

DATE	DESCRIPTION	BY

SCALE:
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SP-1

SECTION 02282 – TERMITE CONTROL

Product Data: Submit manufacturer's technical data and application instructions.

Quality Assurance: In addition to requirements of the specifications, comply with manufacturers instructions, including substrate preparation and application rates.

Engage a licensed professional pest control applicator.

Use only EPA– registered termiticides.

Warranty: Signed by applicator and contractor, certifying that applied soil termiticide treatment will prevent infestation of subterranean termites for 5 years from date of Completion. If subterranean termite activity is discovered during warranty period, Contractor will re-treat soil and repair or replace damage caused by termite infestation.

Soil Treatment Solution: Emulsible, concentrated termiticide that dilutes with water provide a working solution of one of the following:

Chlorpirifos: Dow "Dursban TC"

Permathrin: FMC "Dragnet FT", ICI "Torpedo"

Fenvalerate: DuPont "Gold Coast Tribute"

Isofenphose: Mobay "Pryfon"

Surface Preparation: Remove foreign matter. Loosen, rake, and level soil to be treated, except previously compacted areas under slabs and foundations.

Apply solution at rates and concentrations recommended by soil termicide manufacturer.

Post signs in area of application warning workers that soil termicides treatment has been applied. Remove signs when areas are covered by other construction.

Reapply treatment to areas disturbed by subsequent excavation or other construction activities following application.

END OF SECTION 02282

SECTION 02480 – LANDSCAPE WORK

General Landscape Requirements:

Submit planting schedule showing coordination of normal planting times with construction schedule for other (related) work.

Layout areas of planting and location of each major plant, for review by Owner prior to start of planting.

Plant Size and Quality: Provide sizes of plants as shown or scheduled. Provide premium quality plant materials with good shape for species and healthy conditions.

Furnish balled and burlapped (B&B) trees and shrubs, except container-grown plants may be furnished for smaller shrubs if indicated size is below limit established in ANSI Z60.1.

Deciduous shrubs may be furnished in bare foot condition if adequately maintained and protected from drying through transplanting period.

Furnished ground cover in removable containers or integral peat pots.

Warranty lawns, through specified lawn maintenance period and until final acceptance.

Warranty plants, shrubs and trees for a period of one year against death and unhealthy condition except from neglect by Owner, damage by others, and unusual phenomena beyond installer's control. Replace at optimum planting time.

Provide topsoil to supplement that (if any) shown as available for reuse at site. Provide clean, fertile, friable, natural loam obtained from a local, well drained source.

Provide fertilizer, humus and other soil amendments of a type which are known to improve ph condition of soil for particular plant material to be planted. Mix peat humus (FS Q–P–166) with topsoil in the ratio of 1:3 for use in planting.

Planting Trees:

Excavate pit to 1–1/2 times diameter of tress ball and not less than 6" deeper. Compact layer of topsoil in pit to locate collar of plant properly in a slightly dished finish grade. Backfill around ball with topsoil, compacted to eliminate voids and air pockets, watering thoroughly as layers are placed. Build 3" high berm of topsoil beyond edge of excavation. Apply 3" mulch of shredded hardwood, bark chips, peat, or other recognized organic planting mulch.

Prune trees to remove damaged branches, improve natural shape, thin out structure and remove not more than 15% of branches. Do not prune back terminal leader.

Wrap trunk from ground to first branch with tree wrapping tape.

Guy and stake trees 3 directions with galvanized wire, through flexible hose chafing guards, with wooden stake anchors.

Planting Shrubs:

Excavate pits or trench to 1–1/2 times diameter of balls or containers, or 1'–0" wider than spread of roots, and 3" deeper than required for positioning at proper height. Lightly compact a layer of topsoil in bottom before placing plants. Backfill around plants with topsoil, compacted to eliminate voids and air pockets. Water thoroughly as layers are placed. Form grade slightly dished, and bermed at edges of excavation. Apply 2" mulch of peat, straw or other recognized organic planting mulch.

Prune shrubs to remove damaged branches, improve natural shape, thin out structure and remove not more than 15% of branches.

Planting Ground Cover:

Till soil to depth of 4" in areas where topsoil has been stripped.

Loosen subgrade to depth o f " in areas where topsoil has been stripped, and spread topsoil of 4", except as otherwise indicated.

Space plants 2'–0" apart both ways, except as otherwise indicated. Dig holes large enough to allow for spreading of roots. Compact backfill to eliminate voids, and leave grade slightly dished at each plant. Water thoroughly. Apply 2" mulch of shredded hardwood, bark chips, peat, straw or other recognized organic planting mulch over entire planting bed, lifting plant foliage above mulch.

Planting Lawns:

Sod: Clean, strongly rooted, uniformly sized strips recommended for local environment sod, machine stripped not more than 24 hours prior to laying.

Cultivate to a depth of 6" in areas where topsoil has not been stripped, add specified soil amendments and mix thoroughly into top 4" of soil, tilling surface to a level, fine texture.

Grade and roll prepared lawn surface. Water thoroughly but do not create muddy soil condition.

Lay sod strips with tight joints, roll or tamp lightly, and water thoroughly.

Steel Edging: Where indicated, provide 4" x 3/16" steel edging with 18" stakes spaced at 3' – 0" centers and at looped joints, green–black painted finish.

Landscape Maintenance:

Maintain landscape work for a period of 60 days immediately following complete installation of each major category of work. Include watering, weeding, cultivating, restoration of grade, mowing and trimming grass, pruning trees and shrubs, protection from insects and disease, fertilizing and similar operations as needed to ensure normal growth and good health for live plant material.

END OF SECTION 02480

SECTION 02520 – PORTLAND CEMENT CONCRETE PAVING

Extent of Portland cement paving is shown on drawings, including curbs, gutters, walks, and paving.

Prepare subbase is specified in Section 02200, "Earthwork".
Concrete and related materials are specified in Section 03300, "Concrete".
Joint fillers and sealers are specified in Section 07901, "Joint Sealers".

Forms: Steel, wood, or other suitable material of size and strength to resist movement during concrete placement and to retain horizontal and vertical alignment until removal. Use straight forms, free of distortion and defects.

Coat forms with non–straining form release agent that will not discolor of deface surface of concrete.

Welded Wire Mesh: Welded plain cold–drawn steel wire fabric, in flat sheets only, ASTM A185.

Reinforcing Bars: Deformed steel bars, ASTM A615, Grade 40, 40 ksi yield strength minimum.

Fabricated Bar Mats: Welded or clip–assembled steel bar or rod mats, ASTM A184.
Concrete Materials: Comply with requirements of applicable Division–3 sections for concrete materials, admixtures, bonding materials, curing materials and others as required.

Expansion Joint Materials: Comply with requirements of Section 07901 for performed expansion joint fillers and sealers.

Curing and Sealing Compound: ASTM C309, Type 1, Class B, clear water borne membrane–forming curing compound.

Concrete Mix, Design and Testing: Comply with requirements of Section 03300 for concrete mix design, sampling and testing, and quality control, and as herein specified.

Compressive Strength: 3000 psi, min. at 28 days, unless otherwise indicated.

Slump Range: 8" for concrete containing HRWR admixture (superplasticizer); 3" for other concrete.
Air Content: 5% to 8%.

Surface Preparation: Remove loose material from compact subbase surface immediately before placing concrete.

Form Construction: Set forms to required grades and lines rigidly braced and secured. Install sufficient quantity of form to allow continuous progress of work and so that forms can remain in place at least 24 hours after concrete placement. Check completed formwork for grade and alignment to following tolerances:

Top of forms not more than 1/8" in 10'.

Vertical face on longitudinal axis, not more than 1/4" in 10'.

Clean forms after each use, and coat with form release agent as often as required to ensure separation from concrete without damage.

Reinforcement: Locate, place and support reinforcement as specified in Division–3 sections, unless otherwise indicated.
Concrete placement: Comply with requirements of Division–3 sections for mixing and placing concrete, and as herein specified.

Deposit and spread concrete in a continuous operation between transverse joint, as far as possible. If interrupted for more than 1/2–hour, place a construction joint.

Curbs and Gutters: Automatic machine may be used for curb and gutter placement at contractor's option. Machine placement must produce curbs and gutters to required cross–section, lines, grades, finish, and jointing as specified for formed concrete. If results are not acceptable, remove and replace with formed concrete as specified.

Joints: Construct expansion, weakened–plane (contraction), and construction joints true–to–line with face perpendicular to surface of concrete. Construct transverse joints at right angles to centerline, unless otherwise indicated.

Construction Joints: Place concrete joints at end of placements and at locations where placement operations are spotted for a period of more than 1/2–hour, except where such placement terminate at expansion joints.

Construct joints as shown or, if not shown, use standard metal keyway–section forms.

Expansion Joints: Provide premolded joint filler for expansion joints abutting concrete curbs, catch basins, manholes, inlets, structures, walked, and other fixed objects, unless otherwise indicated. Redwood joints are prohibited.

Locate expansion joints at 50' o.c. for each pavement lane, unless otherwise indicated.

Extend joint fillers full–width and depth of joint, and not less than 1/2" or more than 1" below finished surface where joint sealer is indicated.

Furnished joint fillers in one–piece lengths for full width being placed, wherever possible. Where more than one length is required, lace or clip joint filler sections together.

Fillers and Sealants: Comply with the requirements of Section 07901 for preparation of joints, materials, installation and performance.

Concrete Finishing: After striking–off and consolidating concrete, smooth surface by screeding and floating. Adjust floating to compact surface and produce uniform texture.

Work edges of slabs, gutters, back top edge of curb, and formed joints with an edging tool, and round to 1/2" radius, unless otherwise indicated. Eliminate tool marks on concrete surface.

After completion of float troweling when excess moisture or surface sheen has disappeared complete surface finishing as follows:

Broom finish, by drawings a fine–hair broom across concrete surface, perpendicular to line of traffic. Repeat operation if required to provide a fine line texture.

Do not remove forms for 24 hours after concrete has been placed. After form removal, clean ends of joints and point–up any minor honeycombed areas. Remove and replace areas or sections with major defects, as directed.

Protect and cure finished concrete paving, complying with applicable requirements of Section 03300. Use curing and sealing compound or approved moist–curing methods.

Repair or replace broken or defective concrete, as directed.

Protect concrete from damage until acceptance work. Exclude traffic from pavement for at least 14 days after placement. When construction traffic is permitted, maintain pavement as clean as possible by removing surface stains and spillage of materials as they occur.

Sweep concrete pavement and wash free of stains, discoloration's, dirt and other foreign material just prior to final inspection.
END OF SECTION 02520

SECTION 02520 – PORTLAND CEMENT CONCRETE PAVING

PROJECT CONDITIONS: DO NOT APPLY PAINT WHEN RAIN OR EXCESS HUMIDITY ARE PRESENT, AMBIENT OR PAVEMENT TEMPERATURE IS BELOW 40 DEGREES F, NOR WHEN CONDITIONS ARE ANTICIPATED WITHIN EIGHT HOURS AFTER APPLICATION.
MATERIALS:
1. STRIPING PAINT: NON–BLEEDING PIGMENTED COPOLYMER LATEX EMULSION. NON–VOLATILES BY WEIGHT SHALL NOT BE LESS THAN 49 PERSENT WHITE, 50 PERCENT FOR YELLOW AND 42 PERCENT FOR RED.
2. COLORS:
A. FOR FIRE LANES AND HANDICAPPED PARKING DSIGNATIONS: AS REQUIRED BY GOVERNING AUTHORITY.
EQUIPMENT: PAINT MACHINE: PRESURIZED, SELF–CONTAINED, CAPABLE OF APPLYING STRIAGHT LINE FROM 2 INCHES TO 6 INCHES WIDE WITH CONSISTANT COVERAGE AT SPECIFIED RATE.
EXECUTION:
PREPARATION:
A. ALLOW PAVING TO CURE MIN. TIME RECOMMENDED BY PAINT MANUFACTURER PRIOR TO APPLYING PAINT.
B. CLEAN PAVING OF GREASE AND OIL; POWER BROOM CLEAN.
C. LOCATE MARKING ACCORDING TO DRAWINGS, USING GUIDE LINES, TEMPLETES AND FORMS.
D. ALLOW PAVEMENT TO CURE MINIMUM TIME AS RECOMMENDED BY PAINT MANUFACTURER PRIOR TO APPLYING PAINT.
APPLICATION:
APPLY PAINT BY MACHINE AT RATE OF 1 GALLON PER 200 SQ. FEET WITH 2 COATS, MINIMUM.
PROTECTION:
A. CLOSE AREAS TO TRAFFIC FOR DURATION OF DRYING TIME.
B. COORDINATED TO PROVIDE ALL NECESSARY PROTECTION AS REQUIRED FOR OVERSPRAY

SECTION 02666 – POTABLE WATER SYSTEM

Plumbing Code Compliance: Comply with applicable portion or Uniform Plumbing Code or applicable local code, pertaining to selection an installation of potable water system materials and products.

Water Utility Compliance: Comply with requirements of Water Utility supplying water to project, obtain required permits and inspections.

Pipes and Pipe Fittings: Provide pipes of one of the following materials, of weight/class indicated. Provide pipe fittings and accessories of same material and weight/class as pipes, with joining method as indicated.

Copper Tube: For pipes 2–1/2" diameter or smaller ASTM B88; Type K, soft–annealed temper; wrought–copper colder–joint fittings, ANSI B16.22, soldered joints. Construct joints in accordance with CDA "Copper Tube Handbook".

Ductile–Iron Pipe: Cement lined and seal coated pipe fittings, 150 psi rated minimum with push–on or mechanical gasketed joints. AWWA C151, with cement mortar lining, AWWA C104, Class 150, ductile–iron fittings, AWWA C110, cement lined, AWWA C104, and rubber gaskets joints, AWWA C111. Construct joints in accordance with AWWA C600.

Polybutylene (PB) Pipe: AWWA C902 for sizes 1/2" through 3" and ASTM D2662 for sizes 1/2" through 6", SIDR 15, brass or bronze barbed insert fittings with 2 strap–type stainless steel clamps over pipe at each insert. Construct joints in accordance with manufacturer's written instructions.

Polybutylene (PB) Tubing: ASTM D2666, SDR 13.5, or AWWA C902; brass or bronze fittings suitable for flared joints or mechanical compression joints. Construct joints in accordance with manufacturer's written instructions.

Polyvinyl Chloride (PVC) Pipe: ASTM D1785, Schedule 40, for sizes 1/2" through 3", PVC Schedule 40 socket–type fittings, solvent–cement joints, or elastomeric gasketed joints. AWWA C905, 200 psig minimum working pressure, with bell end and elastomeric gasket for AWWA C900 fitting seal. Construct joints in accordance with manufacturer's installation instructions.

Polyethylene (PE) Pipe: AWWA C901 for sizes 1/2" through 3" copper alloy or nylon barbed insert–typed fittings with 2 strap–type stainless steel clamps over pipe at each insert. Construct joints in accordance with manufacturer's instructions.

Depth of Cover: Provide minimum cover over piping of 12" below average local frost depth, or 18" below finished grade, which ever is greater.

Water Main Connection: Arrange and pay for tap in water main, of size and in location as indicated, from water purveyor.

Water Service Termination: Terminate potable water piping inside building where indicated. Provide line size gate value, 3/4" valves test tee, and pressure gage. Provide sleeve cast into building wall, and water–tight sleeve seal.

Gate Valves: Provide as indicated, gate valves, AWWA C500, 200 psi working pressure. Provide threaded, flanged, hub, or other end configurations to suit size of valve and piping connection. Provide inside screw type for use with curb valve box, iron body, bronze–mounted, double disc, parallel seat, non–rising stem.

Check Values: Provide as indicated, swing check valves, AWWA C508, 200 psi working pressure. Provide iron body, cast–iron disc, bolted cap.

Anchorages: Provide anchorage's for tees, wyes, crosses, plugs, caps, bends, valves, and hydrants. After installation, apply full coat of asphalt or other acceptable corrosion–retarding material to surfaces of ferrous anchorages.

Clamps, Straps and Washers: Steel, ASTM A506.

Rods: Steel, ASTM A575.

Rod Couplings: Malleable–iron, ASTM A197.

Bolts: Steel, ASTM A307.

Washers: Gray cast–iron, ASTM A126.

Thrust Blocks: Concrete, 2,500 psi.

Yard Hydrants: Provide non–freeze yard hydrants, 3/4" inlet, 3/4" hose outlet, bronze casing cast–iron or cast–aluminum casing guard, key–operated, and tapped drain port in value housing.

Piping Tests: Conduct piping tests before joints are covered, and after thrust blocks have sufficiently hardened. Fill pipeline 24–hours prior to testing and apply test pressure to stabilize system. Use only porable water.

Hydrostatic Tests: Test at not less than 1–1/2 times working pressure for 2–hours.

Disinfection of Water Mains: Flush and disinfect in accordance with AWWA C601.

END OF SECTION 02666

SECTION 02711 – FOUNDATION DRAINAGE

Extent of foundation drainage system work is shown on drawings.

Drainage Pipe and Fittings:

Furnish drainage pipe complete with bends, reducers, adapters, couplings collars and joint materials.

Perforated Polyvinyl Chloride (PVC) Pipe: ASTM D2729.

Perforated Concrete Pipe: ASTM C444, Type I, and applicable requirements of ASTM C14, Class 2.

Soil Material:

Impervious Fill at Footings: Stable, low modulus clay or similar soil material. After concrete footings have been cured and forms removed, place impervious fill material on subgrade adjacent to bottom of footing. Place and compact impervious fill to dimensions indicated or, if not indicated, not less than 6" deep and 12" wide.

Filtering Material: Graded gravel or washed sand over geotextile filter fabric. Place supporting layer or filtering material over compacted subgrade where drainage pipe is to be laid to depth indicated or, if not indicated, to a compacted depth of not less than 4".

After testing drain lines, place additional filtering material to a 4" depth around sides and top of drains.

Laying Drain Pipe: Lay drain pipe solidly bedded in filtering material. Provide full bearing for each pipe section throughout its length, to true grades and alignment, and continuous slope in direction of flow.

Lay perforated pipe with perforations down and joints rightly closed in accordance with pipe manufacturers recommendations. Provide collars and couplings as required.

Testing Drain Lines: Test or check lines before backfilling to assure free flow. Remove obstructions, replace damaged components, and retest system until satisfactory.

Drainage Fill: Place drainage fill over drain lines after satisfactory testing and covering of drain lines with filtering material. Completely cover drain lines to a width of at least 6" on each side and above top of pipe to within 12" of finish grade. Place fill material in layers not exceeding 3" in loose depth and compact each layer placed.

Fill to Grade: Apply impervious fill material over compacted drainage fill at footings drains, placing material in layers not exceeding 6" in loose depth and thoroughly compacting each layer. Carry impervious fill to indicated finished elevations and slope away from building perimeter.

END OF SECTION 02711

SECTION 02730 – SANITARY SEWAGE SYSTEMS

Plumbing Code Compliance: Comply with applicable portions of National Standard Plumbing Code or applicable local codes, pertaining to selection and installation of sanitary sewage system materials and products.

Seperation between water and sanitary sewer system lines shall be provided under slab. Provide as–built document locating all lines and depth at completion of project. Provide mark–up and data to general contractor for submittal to owner.

Pipes and Pipe Fittings: Provide pipes of one of the following materials, of weight/class indicted. Provide pipe fittings and accessories of same material and weight/class of pipes, with joining method as indicated.

Cast–Iron Soil Pipe: ASTM A74, hub and spigot ends, service weight unless otherwise indicated, cast–iron hub and spigot complying with ASTM A74; lead/oakum caulked joints, or compression joints with rubber gaskets complying with ASTM C564. Install in accordance with applicable provisions of CISPI "Cast Iron Soil Pipe & Fittings Handbook".

Vitrified Clay Pipe: ASTM C700, bell and spigot ends, standard strength unless otherwise indicated, vitrified caly bell and spigot fittings, same strength as adjoining pipe, compression joints complying with ASTM C425.

Acrylonitrile–Butadiene–Styrene (ABS) Sewer Pipe: ASTM D2751, SDR 35 for 3", 4" and 6" and SDR 42 for 8", 10" and 12", ABS fittings, ASTM D2751, solvent–cement joints, ASTM D2235, or elastomeric joints complying with ASTM D2235, or elastomeric joints complying with ASTM D3212 using gaskets complying with ASTM F 477. Install in accordance with manufacturer's installation recommendations and in accordance with ASTM D2321 for gasketed joints.

Polyvinyl Chloride (PVC) Sewer Pipe: ASTM D3033, Type PSP, SDR 35, or ASTM D3034, Type PSM, SDR 35, PVC fittings, ASTM D3033 or ASTM D3034, solvent–cement joints complying with ASTM D2855 using solvent cement complying with ASTM D2564, or elastomeric joints complying with ASTM D2564; or elastomeric joints complying with ASTM D3212 using elastomeric seals complying with ASTM F477. Install in accordance with manufacturer's installation recommendations and in accordance with ASTM D2321.

Polyvinyl Chloride (PVC) DWV Pipe: Schedule 40 ASTM D2665, PVC schedule 40 fittings, ASTM D2665, solvent–cement joints, ASTM D2664; or threaded joints. Install in accordance with manufacturer's installation recommendations and in accordance with ASTM D2321.

Polyvinyl Chloride (PVC) Sewer Pipe: ASTM F679, wall thickness T–1, PVC fittings, ASTM F679, elastomeric joints complying with ASTM D3212 using elastomeric seals complying with ASTM F477.

Install in accordance with manufacturer's installation recommendations and in accordance with ASTM D2321.

Install piping in accordance with governing authorities having jurisdiction except where more stringent requirements are indicated.

Inspect piping before installation to detect apparent defects. Mark defective material with white paint and promptly remove from site.

Lay piping beginning at low point of system, true to grades and alignment indicated with unbroken continuity of invert.

Place bell ends or groove ends of piping facing upstream.

Install gaskets in accordance with manufacturer's recommendations for use of lubricants, cements and other special installation requirements.

Clear interior of piping of dirt and other superfluous material as work progresses. Maintain swab or drag in line and pull past each joint at it is completed.

Make joints between different types of pipe with standard manufactured adapters and fittings intended for that purpose.

Inspect piping to determine whether line displacement or other damage has occurred.

Cleanouts: Provide as indicated, pipe extension to grade with ferrule and countersunk cleanout plug. Provide round cast–iron access frame over cleanout, with heavy–duty secured scoriated cover with lifting device.

Tap Connections: Make connections to existing piping and underground structures, so that finished work will conform as nearly as practicable to requirements specified for new work.

Backfilling: Conduct backfilling operations of open–cut trenches closely following laying, jointing and bedding of pipe and after initial inspection and testing are completed.

Testing: Perform testing of completed piping in accordance with local authorities having jurisdiction.

END OF SECTION 02730

SECTION 02810 – UNDERGROUND IRRIGATION SYSTEM

Extent of underground irrigation system is shown on drawings.

Product Data: Submit manufacturer's technical data and installation instructions.

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products which may be incorporated in the work included, but art not limited to the following:

Muellermist Irrigation Co.
Rain Bird Sprinkler Mfg. Corp.
The Toro Co., Irrigation Division
Weather–Matic Div./Telsco Industries

Circuit Pipe (downstream from circuit valves): PVC plastic pipe, ASTM D1785, Schedule 40.

Pipe Fittings: PVC plastic pipe, ASTM D2466 socket fittings with ASTM D2564 solvent cement.

Valves: Manufacturer's standard, of types and size indicated and as follows:

Provide cast bronze bodies, unless otherwise indicated.

Manual Circuit Values: Globe valves, fitted for key operation.

Furnish 2 value keys, 3' long with tee handles and key end to fit values.

Automatic Drain Values: Designed to open for drainage when line pressure drops below 3 psi.

Backflow Preventer: Manufacturer's standard, to suit sprinkler system.

Sprinkler Heads: Manufacturer's standard unit designed to provide uniform coverage over entire area of spray shown on drawings at available water pressure, as follows:

Flush Surface: Fixed pattern, with screw–type flow adjustment.

Bubbler: Fixed pattern, with screw–type adjustment.

Shrubbery: Fixed pattern, with screw–type flow adjustment.

Value Box: Precast concrete.

Value Cover and Frame: Cast iron with provision for locking.

PVC sleeves: Provide and coordinate the installation of under concrete paving / slab as required for system piping and power.

System Design:

Design Pressures: As indicated on the drawings at connection to building system and at last head in circuit.

DRAWN BY: DP
CHECKED BY: DP

DP DESIGNS
& DEVELOPMENT, LLC
214-675-9175
DANIEL@DP-DESIGNS.CO

REGISTERED ARCHITECT
JOHNNY LIMONES
27712
STATE OF TEXAS
04-06-21

SPECIFICATIONS
MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

DATE	DESCRIPTION	BY

SCALE:
AS NOTED

PROJECT NO.
083-01

SHEET NO.
SP-2

Locations of Heads: Design location is approximate. Make minor adjustments as necessary to avoid plantings and other obstructions.

Minimum Water Coverage:

Turf areas, 95%.
Other planting areas, 85%.

Layout may be modified, if necessary to obtain coverage, to suit manufacturers standard heads. Do not decrease number of heads indicated unless otherwise acceptable to Owner.

Trenching and Backfilling:

General: Excavate straight and true with bottom uniformly sloped to low points.

Trench Depth: Excavate trenches to a depth of 3" below invert of pipe, unless otherwise indicated.

Min. Cover: Provide following min. Cover over top of installed piping.

Steel piping, 12".
PVC piping, 20".

Backfill: Backfill with clean material form excavation. Remove organic material as well as rocks and debris is larger than 1" diameter. Place acceptable backfill material in 6" lifts, compacting each lift.

Backfill trench to within 6" of finished grade. Continue fill with acceptable topsoil and compact to bring sod even with existing lawn.

Replant sod within 7 days after removal, roll and water generously.

Installation:

General: Unless otherwise indicated, comply with requirements of Uniform Plumbing Code or applicable local codes.

Connection to Main: Connect to existing building piping in locations indicated.

Maintain uninterrupted water service to building during normal working hours. Arrange for temporary water shut-off with Owner.

Backflow Preventer: Provide union on downstream side. Install min. 6" above highest ground level sprinkler head.

Circuit Values: Install in value box, arranged for easy adjustment and removal.

Provide union on downstream side.

Piping: Lay pipe on solid subbase, uniformly sloped without humps of depression.

For circuit piping, slope to drain valve at least 1/2" in 10' of run.

At wall penetrations, pack the opening around pipe with non-shrink grout. At exterior face, leave a perimeter slot approximately 1/2" wide by 3/4" deep. Fill this slot with backer rod and an acceptable elastomeric sealant. Repair below grade waterproofing disturbed by this work and make penetration watertight. (Reminder - This may not be adequate for expansive soil).

Sprinkler Heads: Flush circuit lines with full head of water and install heads after hydrostatic test is completed.

Install lawn heads at manufacturer's recommended heights.

Install shrubbery heads at heights indicated.

Locate part-circle heads to maintain a minimum distance of 4" from walls and 2" form other boundaries, unless otherwise indicated.

Hydrostatic Test: Test water piping and valves, before backfilling trenches, to a hydrostatic pressure of not less than 100 psi. Piping may be tested in section to expedite work. Remove and repair piping, connections, valves which do not pass hydrostatic testing.

Operational Testing: Perform operational testing after hydrostatic testing is completed backfill is in place, and sprinkler heads adjusted to final position.

END OF SECTION 02810

SECTION 02845 - PARKING BUMPERS

PRODUCTS:
MANUFACTURED UNITS:
PARKING BUMPERS: PRECAST CONCRETE, 6 FEET LONG BY 6 INCHES HIGH, ROUNDED TOP.
EXECUTION:
LOCATE WHERE INDICATED; SECURE TO PAVING WITH TWO 12 INCH BY 5/8 INCH DIAMETER STEEL DOWELS.
END OF SECTION 02845
SECTION 03300 - CONCRETE

Codes and Standards: ACI 318, "Building Code Requirements for Reinforced Concrete". Comply with applicable provisions except as otherwise indicated, CRSI "Manual of Standard Practice".

Owner will employ a separate testing laboratory to evaluate concrete delivered to and placed at site.

Mix Proportions and Design: Proportion mixes complying with mix design procedures specified in ACI 301. Mixes shall minimum 3,000 psi compressive strength at the end of 28 days unless noted otherwise.

Use air-entering admixture in all concrete, providing not less than 4% nor more than 8% entrained air for concrete exposed to freezing and thawing, and from 2% to 4% for other concrete.

Concrete Materials:

Portland Cement: ASTM C150, type as required.

Fly Ash: ASTM C618, Type C or F.

Limit use of fly ash in concrete mix design to not exceed 25% of cement content by weight.

Aggregates: ASTM C33, except local aggregates of proven durability may be used when acceptable to Architect. Maximum large aggregate, 1-1/2" diameter.

Water: Drinkable.

Air-Entraining Admixture: ASTM C260.

Related Materials:

Waterstops: Flat dumbbell or enter bulb type, size to suit joints, or either rubber (CRD C513) or PVC (CRD C572).

Moisture Barrier: Clear 8-mils thick polyethylene, polyethylene-coated barriers paper; 1/8" thick asphalt core membrane sheet.

Membrane-Forming Curing Compound: ASTM C309, Type I, Class B, clear, water-borne.

Form Materials: Provide form materials with sufficient stability to withstand pressure of placed concrete without bow or deflection.

Reinforcing Materials:
Deformed Reinforcing Bars: ASTM A615, Grade 60, unless otherwise indicated.

Welded Wire Fabric: ASTM A185. (Flat sheets only).

Ready-Mix Concrete: ASTM C94, transit mix concrete.

Reinforcement: Position, support and secure reinforcement against displacement. Locate and support with metal chairs, runners, bolsters, spacers and hangers, as required. Set wire ties so ends are directed into concrete, not toward exposed concrete surfaces.

Protect concrete from physical damage or reduced strength due to weather extremes during mixing, placement and curing.

In cold weather comply with ACI 306. Maintain temperature above freezing for minimum of 7 days after placement.

In hot weather comply with ACI 305. Shield from wind and excessive drying.

Concrete Finishes:

Remove fins and projections, patch defective areas with cement grout and rub smooth.

Slab Trowel Finish: Apply trowel finish to monolithic slab surfaces. Consolidate concrete surfaces by finish troweling, free of trowel marks, uniform in texture and appearance.

Curing: Keep continuously moist for not less than 72 hours. Continue curing by use of membrane-forming curing compound.

END OF SECTION 03300

SECTION 04200 - UNIT MASONRY

Masonry Units: Standard units: ASTM C-129-94 Type I, normal weight, 8 x 16 inch face size, thickness as indicated.

Decorative Units: Split faced units with nominal face dimensions of 8" x 16". Color: See Elevation Plan A/4 for Types and Colors A/4 for type and colors.
Type I, moisture-controlled units.
Hollow Loadbearing Block: ASTM C-129-94 and as follows:
Weight Classification: Normal weight. (125 pcf min.)
Compressive Strength: fm = 1500 PSI
Water Repellant Admixture: W.R. Grace "Dry Block" or equal.
All exterior walls sealed water tight with clear liquid sealer (Senlev Prim-A-Pell)

Mortar for Unit Masonry. Comply with ASTM C 270, Proportion Specification, for types of mortar required, unless otherwise indicated.

Use Type S Mortar. Mix with water repellant admixture for exterior walls.

Mortar Coloring: Match color of block as closely as possible.

Reinforcing Bars. Deformed steel: ASTM A615, Grade 60, in conformance with Division 3, Concrete.

Joint Reinforcment. Provide welded-wire units, spaced at 16" o.c. vertically for running bond, 8" o.c. vertically for stacked bond, prefabricated with deformed continuous side rods and plain straight cross rods into straight lengths of not less than 10', with prefabricated corner and tee units, and complying with requirements indicated below:

Width: Fabricate joint reinforcement in units with widths of approximately 2" less than nominal width of walls and partitions as required to provide mortar coverage of not less than 5/8" on joint faces exposed to exterior and 1/2" elsewhere.

Wire Size for Side Rods: 3/16 inch.

Wire Size for Cross Rods: 0.1483" diameter.

For single-wythe masonry provide type as follows with single pair of side rods:

Ladder design with cross rods spaced not more than 16" o.c. for all walls.

Anchor Bolts. Provide steel bolts with hex nuts and flat washers complying with ASTM A 307, Grade A, hot dip galvanized to comply with ASTM C 153, Class C, in sizes and configuration indicated.

Grout for Unit Masonry. Comply with ASTM C 476 for grout for use in construction of reinforced and non-reinforced unit masonry. Use grout of consistency indicated, or if not otherwise indicated, of consistency (fine or coarse) at time of placement which will completely fill all spaces intended to receive grout.

Design mix to provide normal weight concrete with the following properties:

3000 psi, 28 day compression strength using #89 aggregate with slump of 8" plus or minus 1 inch.

LOW-LIFT GROUTING

Provide minimum clear dimension of 2" and clear area of 8 sq. in. in vertical cores to be grouted.

Place vertical reinforcement prior to laying of CMU. Extent above elevation of maximum pour height as required for splicing. Support in position at vertical intervals not exceeding 192 bar diameters nor 10 ft.

Lay CMU to maximum pour height. Do not exceed 4' height, or if bond beam occurs below 5' height, stop pour at course below bond beam.

Pour grout using chute or container with spout. Vibrate grout during placing per ACI 530 (do not rod). Place grout continuously; do not interrupt pouring of grout for more than one hour. Terminate grout pours 1-1/2" below top course of pour.

Bond Beams: Stop grout in vertical cells 1-1/2" below bond beam course. Place horizontal reinforcement in bond beams; lap at corners and intersections as shown. Place grout in bond beam course before filling vertical cores above bond beam.

HIGH-LIFT GROUTING:

All filled cell masonry shall be built to preserve the unobstructed vertical continuity of cells to be filled with grout.

Units shall be laid with full face shell mortar beds. All head joints shall be continuously filled with mortar for a distance from the face of the wall or unit not less than the thickness of the longitudinal face shells. Cross webs adjacent to vertical cores to be filled shall be fully bedded with mortar to prevent leakage of grout.

Bond of masonry units shall be provided by lapping units in alternate courses.

A clean-out opening not less than 3 x 4 inches in size is to be located at the bottom of every core in hollow-unit reinforced masonry containing dowels or vertical reinforcement, and in at least every other core that is grouted but has no vertical bars.

All mortar fins or other obstructions or debris shall be removed from the insides of the walls of the cells

to be filled with grout. All cells to be filled shall be filled solidly with grout.

Grout shall be poured or pumped in lifts of 8 ft. maximum height, and shall be consolidated at time of pouring by rodding or vibrating, followed by reconsolidation later, before plasticity is lost. When total grout pour is to exceed 8 ft. high, it shall be in 4 ft. lifts.

When grouting is stopped for 1 hour or longer between lifts, horizontal construction joints shall be formed by stopping the pour 1-1/2" below the top of the uppermost unit.

EXECUTION:

Workmanship. Carry up masonry wall level and plumb all around. Handle units with care to avoid chipping, cracking and spoiling of faces and edges. Use masonry saws to make the necessary cuts in exposed work. In laying masonry, avoid over-plumbing and pounding of the corners and jambs to fit stretcher units after they are set in position. Where an adjustment must be made after the mortar has started to harden, remove the mortar and replace with fresh mortar.

Tolerances: Vertical- Within 1/8" in 5'.
Horizontal- Within 1/4" in length of wall.

Cleaning. During construction, take care continuously to keep exposed surfaces clean of mortar and other stains. At the completion of work, point all holes in exposed masonry, cutting out and tuck pointing defective joints with mortar.

Work. Use cleaners recommended by the manufacturer and the cleaning manufacturers after each area has been satisfactorily cleaned thoroughly rinsing with clean water.

END OF SECTION 04200

SECTION 05500 - METAL FABRICATIONS

General:

Submittals: In addition to product data, submit the following:

Shop drawings showing details of fabrication, assembly and installation including templates for anchor bolt placement.

Samples of materials and finished products as may be requested by Owner.

Materials/Fabrication:

General: For work exposed to view use materials selected for their smoothness and freedom from surface blemishes.

Steel Plated, Shapes and Bars: ASTM A36.

Steel Bar Grating: ASTM KA569 or A36.

Steel Tubing: ASTM A500 or ASTM A501.

Structural Steel Sheet: ASTM A570 or ASTM A611, Class 1, of grade required for design loading.

Gray-Iron Castings: ASTM A48, Class 30.

Malleable-Iron Castings: ASTM A47.

Concrete Inserts: Threaded or wedge type, galvanized ferrous castings, either galvanized with steel bolts, washers and shims, hot-dip galvanized.

Metallic Non-Shrink Grout: CE CRD-C621, non-staining, non-corrosive, non-gaseous, recommended by mfg. for types of application indicated.

Non-Shrink Non-Metallic Grout: CE CRD-C621, non-staining, non-corrosive, non-gaseous, recommended by mfg. for types of application indicated.

Fasteners: Provide bolts, nuts, lag bolts, machine screws, wood screws, toggle bolts, masonry anchorage devices, lock washers as required for application indicated and complying with applicable Federal standards. Hot-dip galvanized fasteners for exterior applications to comply with ASTM A153.

Shop Painting: Apply shop primer to surfaces of metal for fabrications except those embedded in concrete or galvanized, comply with SSPC-PAI and requirements indicated below:

Surface Preparation: Comply with SSPC SP6 "Commercial Blast Cleaning" for exterior work, and with SSPC-SP3 "Power Tool Cleaning" for interior work.

Shop Primer: Fabricator's standard, fast-curing, lead-free, "Kembond H.S." primer complying with performance requirements of TT-P-664.

Galvanizing: Hot-dipped galvanized, G90. ASTM A386 for assembled products, ASTM A123 for rolled, pressed and forged steel shapes, plates, bars and strip 1/8" and thicker, galvanizing repair paint; MIL-S- 21035 or SSPC paint-20.

Fabrication, General: Use materials of size and thickness shown, or, if not shown, or required size, grade and thickness to produce strength and durability in finished product.

Weld corners and seams continuously grind exposed welds smooth and flush.

Form exposed connections with hairline, flush joints, use concealed fasteners where possible.

Rough Hardware: Furnish custom-fabricated bolts, plates, anchors, hangers, dowels and other miscellaneous steel and iron shapes for framing and supporting and anchoring woodwork.

Loose Bearing Plates: Provide for steel items bearing on masonry or concrete, as indicated. Drill plates to receive anchor bolts.

Loose Steel Lintels: Fabricate to sizes indicated. Size for minimum 8" bearing each side of opening.

Miscellaneous Framing and Supports: Provide as required to complete work and not included with structural framework. Fabricate of welded construction in as large units as possible; drill and tap as required to receive hardware and similar items. Include required anchors for building into other work, spaced not more than 25' o.c.

Installation: Perform cutting, drilling and fitting required for installation, set work accurately in location, alignment and elevation, measured from established lines and levels. Provide anchorage devices and fasteners where necessary for installation to other work.

Set loose items on cleaned bearing surfaces, using wedges or other adjustments as required. Solidly pack open spaces with bedding mortar, use commercial non-shrink grout material.

Touch-up shop paint after installation. Clean field welds, bolted connections and abraded areas, and apply same type paint as used in shop.

END OF SECTION 05500

SECTION 06100 ROUGH CARPENTRY

20 and applicable grading rules of inspection agencies certified by ALSC'S Board of Review.

Provide seasoned lumber with 19% moisture content at time of dressing and shipment, for sizes 2" or less in thickness.

Dimension Lumber: Provide lumber of the following product classification in grade and species indicated.

Light Framing: Construction grade, 2" thick - 4" wide.

(a) Southern Pine Graded under SPIB rules.
(b) Western Spruce-Pine-Fir graded under NLGA rules

Structural Framing:

Studs: #2KD, 2" thick - 6" wide SYP.
Ledgers: #1KD, 2" tjocl tp 10" wide SYP.
Headers: #1KD, 2" thick to 12" wide SYP.

Graded under SPIB rules.

Concealed Boards: Standard grade, any species graded under WWPA rules or No. 2 grade Southern Pine graded under SPIB rules.

Lumber for Miscellaneous Uses: Unless otherwise indicated, provide Standard grade lumber for support of other work, including can strips, bucks, nailers, blocking, furring, grounds, stripping and similar members.

Construction Panels: For types of concealed applications indicated below, provide wood panel products complying with PS 1 where applicable, and with "APA Performance Standard and Policies for Structural Use Panels" (form E445) for requirements indicated.

For following types of applications where exposure durability classification of span rating is not given, provide EXPOSURE 1 and rating required to suit support spacing indicated.

Roof Sheathing: APA Rated Sheathing, 5/8" minimum thickness.

Plywood Backing for Electrical and Telephone Equipment: APA C-D PLUGGED INT with exterior glue, fire-retardant treated, 1/2" thick except as otherwise, indicated.

Gypsum Sheathing: ASTM C79, Grade W: Water-resistant treated core; 1/2" thick; 2'X8', V-T&G long edges.
Fasteners and Anchorages: Of size, type, material and finish suited to application shown and complying with applicable standards including FS FF-N-105 and FF-W-92 and ANSI 818.6.1. Provide metal hangers and framing anchors of size and type recommended for intended use by manufacturer. Hot-dip galvanize fasteners and anchorages for work exposed to weather in ground contact and high relative humidity to comply with ASTM A53.

Air Infiltration Barrier: Vapor permeable, water resistant fabric composed of polyethylene fibers, 8 mil thick, Tyvek; Textile Fibers Dept,. Dupont Co.

Preservative pressure treat lumber and plywood with water-borne preservatives to comply with AWPA C2 and C9, respectively, and with requirements indicated below.

Wood for Ground Contact Use: AWPB LP-22.

Wood for above ground use: Awpb lp-2.

Treat cants, nailers, blocking, stripping and similar items in conjunction with roofing, flashing, vapor barriers and water proofing.

Treat sills, sleepers, blocking furring, stripping and similar items in direct contact with masonry or concrete.

Install rough carpentry work to comply with "Manual of House Framing" by National Forest Products Assoc. (N.F.P.A.) and with recommendations of American Plywood Assoc. (APA), unless otherwise indicated. For sheathing, under layment and other products not covered in above standards, comply with recommendations of manufacturer of product involved for use intended. Set carpentry work to required levels and lines, with members plumb and true and cut to fit.

Securely attach carpentry work to substrates and supporting members using fasteners of size than will not penetrate members where opposite side will be exposed to view or receive finish material. Install fasteners without splitting wood; fasten panel products to allow for expansion at joints unless otherwise indicated.

Fasten structural wood panel products with staple or nail to framing.

Air Infiltration Barrier: Cover wall sheathing with air infiltration barrier in compliance with manufacturer's printed directions.

END OF SECTION 06100

DRAWN BY: DP
CHECKED BY: DP

DP DESIGNS
& DEVELOPMENT, LLC
214-675-9175
DANIEL@DP-DESIGNS.CO

REGISTERED ARCHITECT
JOHNNY LIMONES
27712
STATE OF TEXAS
04-06-21

SPECIFICATIONS
MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

DATE	DESCRIPTION	BY

SCALE:
AS NOTED

PROJECT NO.
083-01

SHEET NO.
SP-3

SECTION 06200 – FINISH CARPENTRY

Woodworking Standard: AWI "Quality Standard", Custom grade and plastic laminate.

Softwood Lumber: Comply with PS 20 and applicable grading rules of respective grading and inspecting agency for species and product indicated. Manufacture to sized and patterns using seasoned lumber. Use pieces made from solid lumber for transparent finished work, and glued-up or solid, at contractor's option of painted work.

Hardwood Lumber: Comply with referenced wood working standard for quality of material and fabrication and with requirements indicated.

Fasteners and Anchorages: Provide nails, screws and other anchoring devices of type, size, material and finish suitable for intended use and required to provide secure attachment, concealed where possible. Hot-dip galvanize fasteners for work exposed to exterior and high humidities to comply with ASTM A153.

Install finish carpentry work plumb, level, true and straight with no distortions. Shim as required using concealed shims. Scribe and cut finish carpentry items to fit adjoining work. Anchor finish carpentry work securely to supports and substrates, using concealed fasteners and blind nailing except as indicated, countersunk and filled flush with finished surface.

Standing and Running Trim: Install with minimum number of joints possible, using full-length pieces from maximum length of lumber available. Cope at returns, miter at corners to produce tight fitting joints. Use scarf joints for end-toned joints.

Board-Type Paneling: T-1-11 exterior grade plywood siding as manufactured by Georgia-Pacific. Comply with paneling manufacturer's instructions using adhesive or concealed clip system as appropriate to type of substrate provided or as indicated.

Aluminum Soffit Panels: Fabral/Alcan Aluminum Corp. POSI-lock, .032" aluminum allow 3105-H14 solid soffit panels. Color: White, non perforated. Use vinyl soffit as an alternate material in high humidity areas. Supplied and installed by G.C.

Fiberglass Reinforced Polyester Sheets (F.R.P.): Marlite Fiberglass Products, a Division of the Masonite Corporation, in 48" widths, 3/32" thickness, in lengths to eliminate the need for horizontal joints or equal as approved by Owner. Furnish in color as selected by Owner complete with all appliances, edge molding, adhesive and caulking required for a proper installation in accordance with the manufacturer's written installation instructions.

END OF SECTION 06200

SECTION 07200 – INSULATION

General:

Thermal: Provide thicknesses of insulation as indicator or, where not indicated, provide combination of k-value and thickness as required to yield the "R" value indicated, refer insulation map sheet M3.

Fire and Insurance Ratings: Provide insulation's complying with governing regulations for application indicated.

Materials:

Mineral Fiber and Fiberglass Blanket/Batt Insulation: Inorganic non asbestos fibers formed with binders into resilient blankets or batts complying with HH-I-521, k-value of 0.27, semi-rigid type where required for self support.

Paper Faced Units: Provide one face including integral nailing flanges with 0.5 perm rated paper facing; other face (if any) minimum 5.0 perm rated.

Foil Faced Units: Provide one face including integral nailing flanges with 0.5 perm rated reflective aluminum foil facing; other face (if any) minimum 5.0 perm rated.

Fire-Resistant Units: Where indicated with a rating or used in a rated assembly for fire endurance, provide noncombustible mineral wool type units (not glass fiber).

Installation:

Install insulation with vapor barrier toward interior. Mechanically fasten units with staples or nails through nailing flanges and tape joints to provide complete vapor barrier. Support insulation suspended between joists with wire system or "chicken wire" mesh anchored to joists.

END OF SECTION 07200

SECTION 07220 – EXTERIOR INSULATION AND FINISH SYSTEM

REFERENCES:
AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) C 150: PORTLAND CEMENT.
SUBMITTALS:
SUBMIT UNDER PROVISIONS AND SECTIONS OF THESE SPECIFICATIONS.
QUALITY ASSURANCE:
A. PROVIDE SAMPLE TO DEMONSTRATE PROCEDURE AND FINISH.
B. APPLICATOR QUALIFICATIONS:
1. APPROVED BY MANUFACTURER TO APPLY SPECIFIED SYSTEM.
2. MINIMUM THRE YEARS EXPERIENCE IN WORK IN THIS SECTION.
DELIVERY, STORAGE AND HANDLING:
STORE MATERIALS IN PROTECTED, DRY AREA UNTIL USED, AT TEMPERATURE BETWEEN 40 AND 100 DEGREES F.
PROJECT CONDITIONS:
A. APPLY COATING ONLY UNDER PREVAILING CONDITIONS:
1. AMBIENT TEMPERATURE: NOT BELOW 40 DEGREES F, NOR EXPECTED TO FALL BELOW THAT TEMPERATURE WITHIN 24 HOURS AFTER APPLICATION.
2. RELATIVE HUMIDITY: NOT ABOVE 85 PERCENT AND SURFACE TEMPERATURE AT LEAST 5 DEGREES F ABOVE DEW POINT.
3. WIND VELOCITY: UNDER 20 MPH.
PRODUCT:
MANUFACTURERS: DRYVIT SYSTEMS, INC., SENERGY, INC.
MATERIALS:
A. EXTERIOR INSULATION AND FINISH SYSTEM: COMPONETS PROVIDED BY OR SPECIFICALLY APPROVED BY SYSTEM MANUFACTURER, INCLUDING:
1. PRIMER/ADHESIVE: ACRYLIC BASED.
2. CEMENTITOUS BASE COAT.
3. FINISH COAT: ACRYLIC BASED, MEDIUM TEXTURE, CUSTOM COLOR TO BE SELECTED.
4. INSULATION BOARD: AGED EXPANDED POLYSTYRENE, NOMINAL 1.0 PCF DENSITY.
5. REINFORCED MESH: TREATED GLASS FIBER.
A. FOR HARD COAT SYSTEM: WOVEN TYPE.
B. FOR SOFT COAT SYSTEM: NON-WOVEN TYPE.

ACCESSORIES:
A. PORTLAND CEMENT: ASTM C 150, TYPE I.
B. INSULATION FASTENERS: GALVANIZED STEEL WITH WASHERS, RECOMMENDED BY SYSTEM MANUFACTURER.
C. WATER: CLEAN AND POTABLE.
MIXES:
FINISH COAT: IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
EXECUTION:
APPLICATION:
A. PROVIDE HARD COAT SYSTEM TO ALL LOCATIONS.
B. INSTALL INSULATION BOARD WITH OFFSET JOINTS FROM THOSE OF SUBSTRATE, STAGGER END JOINTS IN ADJACENT ROWS, CUT PANELS TO FIT PERIMETER ADN AROUND PENETRACTIONS, SECURE PANELS TO SUBSTRATE WITH ADHESIVE AND SAND HIGH AREAS IF REQUIRED TO PROVIDE SMOOTH SURFACE.
C. APPLY HARD COAT SYSTEM PER MANUFACTURER'S APPLICATION STANDARDS.
ADJUSTING AND PATCHING:
TOUCH-UP FINISH COAT AS REQUIRED TO OBTAIN UNIFORM TEXTURE, COLOR, FINISH AS REQUIRED FOR FINAL AND COMPLETE PRODUCT.

SECTION 07510 – BUILT-UP ROOFING

BUILT-UP BITTUMINOUS ROOFING
SYSTEM DESCRIPTION
A. INTERFACE WITH ADJACENT SYSTEMS:
1. COORDINATE ROOFING WORK WITH PLACEMENT OF SHEET METAL FLASHINGS.
2. METAL FLASHINGS FOR PLUMBING VENTS AND AND ALL OTHER ROOF PENETRATIONS.

QUALITY ASSURANCE
A. APPLICATOR QUALIFICATIONS:
1. ACCEPTABLE TO OR LICENSED BY MANUFACTURER OF PRIMARY ROOFING MATERIALS.
2. WORK PERFORMED BY FIRM WITH FIVE YEARS MINIMUM OF SUCESSFUL EXPERIENCE IN INSTALLATION OF BUIT-UP ROOFING SUSTEMS SIMILIAR TO THOSE REQUIRED FOR THE PROJECT.
B. MANUFACTURER'S REPRESENTATIVE: INSTALLATION SHALL BE INSPECTED AND APPROVED BY AUTHORIZED REPRESENTATIVE IN DIRECT EMPLOY OF PRIME ROOFING MATERIAL MANUFACTURER.
C. REGULATORY REQUIREMENTS:
1. COMPLY WITH REQUIREMENTS FOR UL CLASS A FIRE HAZARD CLASSIFICATION AND CLASS 1 FM METAL DECK CONSTRUCTION.
2. COMPLY WITH REQUIREMENTS OF FACTORY MUTUAL TO ACHIEVE CLASS 1-60 WIND UPLIFT RATING.
1. SUBMIT COMPLETE SPECIFICATIONS AND DATA OF MANUFACTURER'S MATERIALS AND SYSTEMS PROPOSED FOR USE ON PROJECT.
2. INCLIDE APPLICATION TEMPERATURE, MAXIMUM KETTLE TEMP., EVT, FLASH POINT, AND FINISHED BLOWING TEMPERATURE.
SHOP DRAWINGS:
SHOW ROOF PLAN INDICATING DRAINAGE LOCATIONS AND INSULATION LAYOUT INCLUDING HIGH AND LOW POINTS.
2. INDICATE PROPOSED ROOFING DETAILS AT PENETRATIONS AND EDGES.
3. INDICATE TERMINATION DETAILS.
ENVIRONMENTAL REQUIREMENTS:
A. MAINTAIN ROLLS OF FELT AT 50 DEGREES F MIN. FOR NOT LESS THAN 24 HOURS PRIOR TO INSTALLATION.
B. DO NOT APPLY ROOFING IF DAMP WEATHER IS IMMINENT OR IF OTHER CONDITIONS EXIST THAT WILL NOT PERMIT PROPER APPLICATION. DO NOT APPLY ROOFING WHEN MOISTURE OR DAMPNESS IS PRESENT ON SUBSTRATE.

WARRANTY:
A. FURNISH WRITTEN WARRANTY SIGNED BY INSTALLER AND CONTRACTOE FOR TWO YEAR PERIOD FROM DATE OF SUBSTANTIAL COMPLETION OF BUILDING COVERING REPAIRS REQUIRED TO MAINTAIN ROOF AND FLASHING IN WATERTIGHT CONDITION.
PRODUCTS:
ACCEPTABLE MANUFACTURERS:
A. GAF CORPORATION OR APPROVED EQUAL

MATERIALS:
PRIMER ASTM D 41
ASPHALT:
LOW SLOPE: ASTM D 312, TYPE II, 158 DEGREES F MIN. TO 176 DEGRES F MAX. SOFTENING POINT.
STEEP ASPHALT: ASTM D 312, TYPE III, 185 DEGREES F MIN. TO 205 DEGREES F MAX. SOFTENING POINT.
FLASHING CEMENT: ASTM D 322, TROWELING CONSISTENCY, DESIGNED FOR VERTICAL APPLICATION, TYPE AS RECOMMENDED BY ROOFING SYSTEM MANUFACTURER.
PLASTIC CEMENT: ASTM D 2822, TROWELING COCSISTENCY, REMAINS PLATIC AFTER APPLICATION.
FLASHING FELTS: GLASS FIBER FELT ASTM D 2178, TYPE IV, OR REINFORCED BASE SHEET PERFORATED FOR STRIP FELTS: CLASS BASE FLASHING AS RECOMMENDED BY MANUFACTTURER.
INSULATION:
1. MANUFACTURERS STANDARD SIZES.
2. R VALUE 25 MIN.
3. THICKNESS 3"
CANT STRIP: ASPHALT IMPREGNATED FIBERBOARD, 4" HIGH, 5 5/8" FACE, 1 1/2" THICKNESS.
AGGREGATE:
1. DRY, CLEAN PEA GRAVEL, ASTM D 1863
2. 100 % PASSING 1/2" MESH, NO GREATER THAN 5 % PASSING NO. 16 MESH, FREE FROM DUST AND FINES.
ROOF DRAIN FLASHING: 36" SQUARE MINIMUM.
ROOFING SYSTEMS:
A. MATERIALS FOR 100 SQ. FT. OF NON-NAILABLE ROOFING OVER INSULATION BOARD (4-PLY):
1. SLOPE INCLINES UP TO 3" IN 1'-0".
2. FELTS: THREE PLIES PLUS BASE SHEET.
3. BITUMEN INTER-PLY MOPPINGS: 25-30 LBS. TYPE III ASPHALT FOR EACH PLY.
4. SURFACING:
EXECUTION: 75 LBS. TYPE III ASPHALT.
PREPARATION: LBS. PEA GRAVEL
REMOVE PREVIOUS ROOFING MATERIALS DETRIMENTAL TO PROPER ROOFING INSTALLATION PROCEDURES.
PROTECT ADJACENT SYSTEMS.
SUBSTRATE MOISTURE:
1. TEST SUBSTRATE EACH DAY BEFORE COMMENCING WORK.
2. APPLY ONE PINT OF BITUMEN AT 400 DEGREES F.
3. IF BITUMEN FOAMS OR CAN BE CLEANLY STRIPPED BY HAND AFTER COOLING, SUBSTRATE CONTAINS EXCESSIVE MOISTURE.
DRYING FLUTES IN STEEL DECK ARE CLEAN AND DRY.
A. INSTALL ROOFING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. START ROOFING INSTALLATION IN REMOTE AREAS WHICH WILL NOT REQUIRE ROOF TRAFFIC AFTER COMPLETION.

CLEANING:
CLEAN ADJACENT SURFACES IMMEDIATELY OF SOIL, STAIN, AND AFHERED MATERIALS.
REMOVE DEBRIS AND FOREIGN MATTER.
RESTORE TO ORIGINAL CONDITION OR REPLACE WORK OR MATERIALS DAMAGED DURING HANDLING AND APPLICATION OF ROOFING MATERIALS.

COORDINATION:
ROOFING CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND INSTALLATION OF ALL PENETRATIONS AND REQUIRED OF ALL TRADES AND EQUIPMENT.
END OF SECTION 07510
SECTION 07600 – FLASHING AND SHEET METAL

Fabricated Sheet Metal, General:

Performance: Water-tight/weatherproof performance of flashings and sheet metal work is required.

Conform to profile and sizes shown, and comply with "Architectural Sheet Metal Manual" by SMACNA, for each general category of work required.

Metal flashing and counter flashing.
Gutters and downspouts (rain drainage).
Gravel stops, fascia units and trim.
Laminated flashings.
Elastic sheet flashing.

Zinc-Coated Steel Sheet: ASTM A526, 0.20% copper, 24 gage (0.0179"); ASTM A525, designation G90 hot-dip galvanized, mill phosphatized.

Fabricate sheet metal with flat-lock seams solder with type solder and flux recommended by manufacturer, except seal aluminum seams with epoxy metal seam cement and where required for strength, rivet seams and joints.

Coat back-side of fabricated sheet metal with 15 mil sulfur-free bituminous coating, FS TT-C--494 or SSPC -paint 12, where required to separate metals from corrosive substrates including cementitious materials, wood or other absorbent materials, or provide other permanent separation.

Provide for thermal expansion of running sheet metal work, by overlaps by expansion joints in fabricated work. Where required for water-tight construction, provide hooked flanges filled with polyisobutylene mastic for 1" embedment of flanges. Space joints at intervals of not more than 50' for steel. Conceal expansion provisions where possible.

Installation Requirements:

Anchor work in place with non-corrosive fasteners, adhesives, setting compounds, tapes and other materials and devices as recommended by manufacturer of each material or system. Provide for thermal expansion and building movements. Comply with recommendations of "Architectural Sheet Metal Manual" by SMACNA.

Seal moving joints in metal work with elastomeric sealants, complying with Section 07901, "Joint Sealers".

Clean metal surfaces of soldering flux and other substances which could cause corrosion.
END OF SECTION 07600

SECTION 07610 – SHEET METAL ROOFING
SHEET METAL ROOFING:
REFERENCES:
A. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):
B. SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA): ARCHITECTURAL SHEET METAL MANUAL.
SUBMITTALS: SUBMIT PER SPEC. REQUIREMENTS.
QUALITY ASSURANCE: INSTALLER QUALIFICATIONS: MINIMUM THREE EXPERIENCE IN WORK REQUIRED OF THIS SECTION.
PROJECT CONDITIONS: DO NOT FORM SHEET METAL AT AMBIENT TEMPERATURES LESS THAN 50 DEGREES.
WARRANTY: PROVIDE MINIMUM THREE YEAR WARRANTY AGAINST DEFECTS IN MATERIALS AND APPLICATION RESULTING IN WATER LEAKAGE THROUGH ROOFING SYSTEM.
PRODUCTS: MATERIALS AS SPECIFIED ON CONSTRUCTION DOCUMENTS INCLUDING ALL REQUIRED ACCESSORIES AND FASTENERS.
FABRICATION: CONFORM TO SMACNA MANUAL FOR FORMING, ANCHORING, AND PROVISIONS FOR EXPANSION AND CONTRACTION.
EXECUTION:
A. SLIP SHEET: APPLY 30 LB. FELT AND SLIP SHEETS PER STD. INSTALLATION PROCEDURES. WEATHER LAP MIN. 4".
B. ROOFING IN ACCORDANCE WITH SMACNA MANUAL.
END OF SECTION 07610
SECTION 07901 – JOINT SEALERS

Materials, General:

General Characteristics: Provide type, grade, class, hardness and similar characteristics of material as indicated or, where not indicated, to comply with manufacturer's recommendations relative to exposures, traffic, weather conditions and other factors of the joint system for best possible overall performance. Except as otherwise indicated, airtight and waterproof seals, without failures in (where applicable), migration, staining, and other performances as specified.

Colors: Manufacturer's standard highest-performance color; unless another color in indicated or selected by Owner.

Compatibility: Provide materials selected for compatibility with each other and with substrates in each joint system; confirm with manufacturer.

Elastomeric Sealants:

Multi-Component Polyurethane Sealant: ASTM C920 Type M Class 25, or FS TT-S-00227E Class A, nonsag, except self-leveling where joints are horizontal for exterior use.

Nonporous-Band Type Silicone Sealant: Acid Type, 1-part, nonsag; ASTM C920 Type S Class 25, or FS TT-S-001543A Class A, recommended by manufacturer for exterior nonporous joint surfaces.

Porous-Band Type Silicone Sealant: 1-part, nonsag; ASTM C920 Type S Class 25, or FS TT-S-001543A, Class A; recommended by manufacturer for exterior use where one or both surfaces are porous.

Sanitary Type Silicone Sealant: 1-part, nonsag; ASTM C920 Type S Class 12.5, or FS TT-S-001543A Class B; recommended by manufacturer for use in interior wet areas, resistant to mildew or mold growth.

Joint Fillers, Pavement Types: Bituminous/Fiber Joint Fillers; 1/2" thick by pavement depth per FS HH-F-341 Type 1, AASHTO M213, or ASTM D1751.

Sealant Backer Rod: Non-absorptive closed-cell (or jacketed open-cell compressible/flexible plastic or rubber rod stock which is compatible with sealant (polyethylene, butyl, neoprene, polyurethane, PVC).

Bond Breaker Tape: Polyethylene or other plastic tape which will not bond to sealant, self-adhesive.
Installation:
Weather Conditions: Install exterior elastomeric sealants when temperature is above lower third of temperature range recommended by manufacturer for installation.

Clean joint surfaces and prime or seal as recommended by sealant mfg.

Support sealant from back with construction as shown, or with joint filler or backer rod.

Install sealants to size and shape shown or, if not shown, with "hour-glass" section profile and as follows:

Pavement/Sidewalk Traffic Joints: Depth equal to 75% or normal joint width, but not more than 5/8" and not less than 3/8".
Elastomeric Sealants, Non-Traffic Joints: Depth in range of 50% of normal joint width.

Install liquid sealants by proven methods which will ensure complete "wetting" of joint bond surfaces, without gaps or air packets in beds, slightly concave on surface and slightly below adjoining surfaces, except form slight cove with sealant at inverted corner joints. Tool as required for vertical joints to concave profile.

END OF SECTION 07901

SECTION 08111 – STEEL DOORS AND FRAMES

Standards: In addition to other specified requirements, comply with Steel Door Institute "Recommended Specifications for Standard Steel Doors and Frames" (ANSI/SDI-100).

Submittals: With manufacturer's standard details and specifications for steel doors and frames, submit shop drawings showing application to project, as required.

Materials: Steel doors and frames, hot rolled, pickled and oiled per ASTM 569 and A568; cold-rolled per ASTM A366 and A568.

Anchors and Accessories: Manufacturer's standard units. Use galvanized item for units built into exterior walls, complying, with ASTM A153.

Fabrication: Fabricate units to be rigid, neat in appearance, and free from defects, warp or buckle. Weld exposed joints continuously, grind, dress and make smooth, flush and invisible.

Prepare steel doors and frames to receive mortised and concealed finish hardware, including cutouts, reinforcing, drilling and tapping, complying with ANSI A115 "Specifications for Door and Frame Preparation for Hardware".

Shop paint exposed surfaces of doors and frame units, including galvanized surfaces, using manufacturer's standard baked-on rust inhibitive primer.

Exterior Doors: SDI-100 Grade III, extra heavy-duty, Model 4 min. 16- gauge galvanized steel faces in compliance with SDI-112.

Frames; Comply with ANSI-ADI-100, of the types and styles indicated, for material quality, metal gauges, and construction details.

Provide 16 gauge galvanized hollow metal frames for exterior doors and standard gauge knock down corner frames, for interior doors.
Prepare frames to receive 3 silencers on strike jambs or single-swing frames.
Installation: Install hollow-metal units in accordance with mfg. instructions and final shop drawings. Fit doors to frames and floors with clearances specified in ANSI/SDI-100.
Finish hardware is specified in Section 08710.
END OF SECTION 08111

SECTION 08410 – ALUMINUM ENTRANCES & STOREFRONTS

Submittals: In addition to manufacturer's standard product data submit shop drawings for fabrication and installation of entrance doors and frames.

Manufacturers: EQUAL TO:
Kawneer Architectural Product (No Alternate) 770/478-8841
P.O. Box 516 Zip 30237 770/603-4556 Fax
7468 Highway 54 Jonesboro, Ga 30236

Modifications of Details: Maintain standard Southland Corp./7-Eleven concepts indicated (member sizes, basic profiles, component alignment and graphics).

Performance Requirements: Fabricate exterior storefront components from manufacturer's stock systems.

Thermal Performance: Built-in provisions for expansion and contraction resulting from ambient temperature range of 120° F (40° C).

Wind Loading: Capable of withstanding uniform pressure of 20 psf inward and 20 psf outward as tested per ASTM E330.

Air and Water Leakage of Fixed Framing: Air infiltration of not more than 0.06 CFM per sq. ft. tested per ASTM 283 and no uncontrolled water penetration per ASTM E331 at pressure differential of 6.24 psf.

Air Leakage of Entrances: Air infiltration per linear foot of perimeter crack of not more than 0.50 CFM for single doors and 1.0 CFM for pairs of doors per ASTM E283 at pressure differential of 1.567.

Storefront Framing System: Inside-outside matched resilient flush-glazed system, shop-fabricated and preassembled from aluminum extrusions, with provisions for glass replacement. Kawneer Spec. Item no.Trifab 451GC.

Stile-and-Rail Aluminum Doors: Manufacturer's standard doors, fabricated from aluminum extrusions, of size and design indicated 1-3/4" thick.

Glass: Preglaze doors with fully tempered safety glass complying with FS DD-G-1403, kind FT, condition A, Type 1, and with CSPC 16 CRF Part 1201. For glass and glazing of storefront framing see Section 08800, "Glass and Glazing".

Hardware:

Manufacturer's standard heavy-duty hardware units of types indicated as applicable for each entrance, finished to match door. See Section 08710 for "Finish Hardware Schedule".

Weather-stripping manufacturer's standard for type of door operation indicated.

Installation: Comply with manufacturer's instructions and recommendations. Set units plumb and level, accurately aligned and securely anchored. Adjust doors and hardware for smooth operation.

END OF SECTION 08410

SECTION 08710 – FINISH HARDWARE

General Hardware Requirements:

Acceptable Manufacturer/Products: Acceptable manufacturers for various types of products are listed below. Except as otherwise indicated, products of equivalent quality, design and function by other listed manufacturers may be used, subject to approval of Owner.

Submit final hardware schedule organized by "hardware sets", to indicated specifically which product to be furnished for each item required on each door.

Furnish templates to each fabricator of doors and frames, as required for preparation to receive hardware.

Finish and base material designations are indicated in accordance with ANSI A156.18 or the nearest traditional U.S. Commercial finish.

Acceptable Manufacturers:

Butt Hinges: Hager, Lawrence, Mckinney, Stanley.
Pivot Hinges: LCN, Norton, Rixson-Firemark, Russwin, Stanley.
Lock/Latch Sets including Cylinders: Corbin, Falcon, Russwin, Sargent, Schlage, Yale.
Exit Devices: Adams-Rite, Corbin, Sargent, Von Duprin, Yale.
Door Bolts: Ives, Russwin, Sargent, Stanley.
Push/Pull Units: Brookline, Russwin, Triangle Brass.
Overhead Closers: Norton, Corbin, Dorma, LCN, Rixson-Firework, Russwin, Sargent, Stanley, Triangle Brass.
Door Stops: Baldwin, Ives, Triangle.
Kickplates, Trim: Baldwin, Ives, Triangle Brass.
Weatherstripping, Thresholds: National Guard, Pemko, Reese, Zero.

Hinges and Pivots: Provide full-mortise type hinges on each door, except as otherwise indicated, and except as otherwise needed for proper support and operation of doors. Provide steel pins with steel hinges, non-removable for exterior and public interior exposure, non-rising for non-security exposure, flat button with matching plugs. All interior doors to have self-closing hinges.

Ball-Bearing: Swaged, inner leaf beveled, square corners.

Locks, Latches and Bolts:

Locks: Equip lock sets with 6-pin tumbler type lock cylinders, in Master Key System, to be designed by Owner.

Strikes: Wrought box strikes, with extended lip for latch bolts, except open strike plates may be used in wood frames. Provide dust-proof strikes for foot bolts.

Provide 3 change keys for each lock, plus 5 masterkeys for each Master Key System. Stamp keys "Do Not Duplicate".

Door Control Devices: Non-sized, non-handed with adjustable closing speed, backcheck; without cover and with parallel arms as required by installation.

Door Stops: Wall mounted except where not feasible then floor mounted. Provide grey rubber exposed resilient parts.

Silencers: Provide silencers in metal door frames, unless not permitted for fire rating, or unless bumper-type weather-stripping is provided, 3 per single-door frame, 4 per double door frame.

Miscellaneous Door Hardware: Fabricate plates and edge trim units 1/16" to 1/2" smaller than actual door dimension. Install with self-tapping screws.

Provide .050" thick (18ga.) stainless steel with beveled edges and No: 4 polish for kick plates, armor plates and edge protection stripping (regardless of finish or other hardware).
Weather-stripping: Provide manufacturers's standard weather-stripping of type, size and profile indicated, continuous at head and jamb edges of each exterior door opening. Provide non-corrosive fasteners.

Thresholds: Provide extruded aluminum threshold of type design and profile indicated, complete with replaceable resilient vinyl wiper-type insert. Provide non-corrosive fasteners.

Finish exposed metal to match hardware, except finish floor plates to match thresholds, or similar floor finish.

Size and mount units indicated or, if not indicated to comply with mfg.'s recommendations for the exposure condition. Reinforce the substrate as recommended.

Installation:

Hardware Mounting Heights: Door and hardware institute "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" and in compliance with ADA Standards except as otherwise indicated.

Install each hardware item to comply with manufacturers's instructions and recommendations.

Set thresholds for exterior doors in full bed of butyl-rubber or polyisobutylene mastic sealant. Remove excess sealant and adjacent surfaces.

Hardware Adjustment: Return to project one month after Owner's occupancy and adjust hardware to proper operation and function. Instruct Owner's personnel in proper maintenance and adjustment.

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SPECIFICATIONS
MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

DATE	DESCRIPTION	BY

SCALE: AS NOTED

PROJECT NO. 083-01

SHEET NO. SP-4

SECTION 08800- GLASS AND GLAZING

GENERAL:

Glazing Standard: Comply with FGMA "Glazing Manual" and "Sealant Manual".

Safety Glazing Standard: Comply with ANSI Z97.1 and testing requirements of 16 CFR part 1201 for category 11 materials.

Sizes: Fabricate glass of thickness indicated and to sized required for glazing openings indicated, with edge clearance and tolerances complying with recommendation of glass mfg.

Primary Glass Products:

Clear Float Glass: ASTM C1036 Type 1, Class 1, Quality q3.

Heat Treated Glass Products:

Clear Heat Treated Float Glass: ASTM C1408, Condition A, Type 1, Class 1, Quality q3.

Reflective, One Way Transparent Mirror Glass Products:

Laminated transparent mirror on 1/4" grey tint with clear reflective PVB interlayer and 1/4" clear float glass.

Glazing Sealant: Comply with sealant and glass manufacturers for selection of glass sealants which suit project application and installation conditions and which are compatible with surfaces contacted. Provide color of exposed sealants indicated or as selected by Architect or Owner.

Silicone Glazing Sealant: FS TT-S-001543, Class A, nonsag; ASTM C920, Type S, Grade NS, Class 25, use G and, as applicable.

Cleaners, Primers and Sealers: Type recommended by manufacturer of sealants/ gaskets.

Blocks and Spacers: Neoprene, EPDM or silicone as required for compatibility with glazing sealants, or 80 to 90 Shore A hardness for setting blocks and, for spacers and edge blocks of hardness recommended by glass and sealant manufacturer for application indicated.

Compressible Filler Rods: Closed-cell or waterproof-jacketed rod stock of synthetic rubber or plastic foam, 5-10 psi compression strength for 25% compression.

Glass Installation (Glazing):

General: Comply with reference FGMA standards and instructions of manufacturers of glass, glazing sealants, and gaskets, to achieve airtight and watertight performance, and to minimize breakage.

Protect glass from edge damage during handling and installation. Inspect glass during installation and discard pieces with edge damage that could affect glass performance.

Set units of glass in each series with uniformity of pattern, draw, bow and similar characteristics.

Protect glass from contact with contamination substances resulting from construction operations, remove any such substances by method of approved by glass manufacturer.

Wash glass on both faces not more than 4 days prior to date scheduled for inspections intended to establish date of substantial completion. Wash glass by method recommended by glass manufacturer.

END OF SECTION 08800

SECTION 09250- GYPSUM DRYWALL
Gypsum Board Standard: ASTM C840
Drywall Materials:
Exposed Gypsum Board: ASTM C36
Provide Type X where indicated and where required in fire resistance rated assemblies.
Long Edges: Standard taper.
Thickness: 5/8, unless otherwise indicated.
Trim Accessories: Provide mfr.'s standard metal trim accessories, of the beard type with face flanges for concealment in joint compound except where semifinishing or exposed type is indicated. Provide corner beads, L-type edge trim beads, U-type trim beads, special L-kerf-type edge trim-beads, and one piece control beads.
Gypsum Board Fasteners: Type recommended by gypsum board mfr., except as otherwise indicated,

Joint Tape: ASTM C475, paper reinforcing tape.

Joint Compound: ASTM C475, of the type indicated. Provide vinyl-type powder or ready-mixed vinyl type for interior work.

Drywall Installation and Finishing:
Install gypsum boards in lengths and directions which will minimize number of end joints, and avoid end joints in central area of ceilings. Install walls and partitions with exposed gypsum boards vertical, with joints offset on opposite sides of partitions. Otherwise install boards with edges perpendicular to supports, with end joints staggered over supports, except where recommended in a different arrangement by mfr.

Isolate drywall work from abutting structural and masonry work, provide edge trim and acoustical sealant as recommended by mfr.

Screw gypsum board to wood and or metal stud supports.

Drywall Finishing: Except as otherwise indicated, apply joint tape and joint compound at joints (both directions) between gypsum boards. Apply compound at accessory flanges, penetrations, fasteners heads and surface defects.
Install compound in 3 coats (plus prefill of cracks where recommended by mfr.)

Sand after last 2 coats.

END OF SECTION 09250
SECTION 09300- TILE

TILE

REFERENCES:
A. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI):
1. A108.4, A108.5, A118.4, A 118.6, A136.1, A137.1
SUBMITTALS:
PER SPECIFICATION REQUIREMENTS IN PREVIOUS SECTION.
DELIVERY, STORAGE AND HANDLING:
A. DELIVER MORTAR AND ADHESIVE CONTAINERS BEARING HALLMARK CERTIFYING COMPLIANCE WITH REFERENCE STANDARDS.
B. PROTECT ADHESIVE CONTAINERS FROM FREEZING AND OVERHEATING ACCORDING TO MANUFACTURER'S DIRECTIONS.
PRODUCT CONDITIONS:
A. MAINTAIN MINIMUM AMBIENT TEMPERATURE OF 50 DEGREES F DURING AND AFTER INSTALLATION.
MAINTENANCE:
EXTRA STOCK: PROVIDE MINIMUM 2 PERCENT EXTRA TILE IN EACH SIZE AND TYPE INSTALLED, IN CLEAN, MARKED CARTONS.
MATERIALS:
TILE: COLOR, SIZE, AND FINISH AS INDICATED ON DRAWINGS.
TRIM UNITS: PROVIDE BEADS, COVES, AND SURFACE BULLNOSES AS REQUIRED, COLOR TO MATCH TILE.
ACESSORIES:
A. SETTING MATERIALS:
1. LATEX-PORTLAND CEMENT MORTAR: ANSI A118.4
2. ORGANIC ADHESIVE: ANSI A136.1, TYPE AS APPLICABLE TO USE, THIN SET BOND TYPE.
3. WATER: CLEAN, POTABLE.
B. GROUT:
1. ANSI A118.6, CEMENTITOUS TYPE WITH LATEX ADDITIVE.
2. COLOR: AS SPECIFIED ON DRAWINGS AND/OR FROM STANDARD MANUFACTURER'S FULL COLOR RANGE.
EXECUTION:
PREPARATION:
A. ALLOWABLE SUBSTRATE TOLERANCES:
1. MAXIMUM VARIATION IN SUBSTRATE SURFACES: 1/8 INCH IN 8 FEET.
2. MAXIMUM HEIGHT OF ABRUPT IRREGULARITIES: 1/32 INCH.
B. CONDITIONS OF SURFACES: CLEAN, DRY, SOUND AND FREE OF OILY AND WAXY FILMS.
INSTALLATION:
WALLS: ANSI A108.4, THIN SET WITH ORGANIC AHHESIVE.
FLOORS: ANSI A108.5, THIN SET WITH LATEX-PORTLAND CEMENT MORTAR.
LAY TILE TO PATTERN FURNISHED BY ARCHITECT.
INSTALL PER INDUSTRY STANDARDS.
ADJUSTING:
REMOVE AND REPLACE PIECES WHICH HAVE BEEN DAMAGED DURING INSTALLAITON.
PROTECTION:
PROVIDE PROTECTION FOR COMPLETED WORK, USING NON-STAINING SHEET COVERINGS.
PROHIBIT TRAFFIC ON TILE FLOORS FOR MINIMUM THREE DAYS AFTER INSTALLATION, MINIMUM.
END OF SECTION 9300.

SECTION 09510 - ACOUSTICAL CEILINGS

Acoustical Ceiling Unit Standard: ASTM E1264.
Suspension Systems: ASTM C635 for materials: ASTM C636 for installation.

Surface Burning Characteristics: Flame spread, 25 or less, smoke developed 50 or less, per ASTM E84. UL listed and marked.

Acoustical Panels: Armstrong std. fiberglass unperforated ceiling panel, Shasta #2907 2'x4'x5/8", square edge, white.

Alternate Panels As Required: Armstrong No. 870, vinyl-coated non-perforated fiber board, 2'x4'x5/8", square edge.

Suspension System: As required to support acoustical units, fixtures and other components as indicated, including anchorages, hangers, runners, cross runners, splices, clips, moldings, fasteners and other members, devices and accessories. Comply with requirements of ASTM C635.

Type: Exposed Direct-Hung Steel Suspension System for white tiles.

Exposed Runner Type: Double Web.

Structural Class: Intermediate Duty System.

Finish: Painted color to match acoustical panels.

Edge Moldings: Metal channel type with single flange exposed.

Finish: To match exposed suspension member finish.

Hanger Wire: Not less than 12-gauge (0.16") galvanized steel.

Installation:

Layout: As indicated balance ceiling borders on opposite sides, using more-than-half width acoustical units.

Tolerance: 1/8" in 12' - 0" level tolerance.

Pattern Direction: One-way, align joints.

Suspension System: Secure to building structure, with hangers space 4'-0" along supported members.

Edge Moldings: Secure to substrate with screw anchors spaced 16" o.c. set with concealed bead of acoustical sealant. Miter corner joints.

Cope exposed flanges of intersecting suspension members for flush intersections.

Install acoustical panels with hold-down clips within 10'-0" of font entrance doors spaced as recommended by panel mfr.

END OF SECTION 09510

SECTION 09900 - PAINTING

Description of Work: Painting and finishing of interior and exterior items and surfaces, unless otherwise indicated.

Includes field painting of bare and covered pipes and ducts (including color coding), and hangers, exposed steel and iron work, and primed metal surfaces of equipment installed under mechanical and electrical work.

Exposed Inside Concrete Floor: Also use 2 coats of Prim-A-Pell Clear Block Sealer.

Paint exposed surfaces, except as otherwise indicated, whether or not colors are designated, colors will be selected by Owner from standard colors available for the coatings required.

Work Not Included: Unless otherwise indicated, shop painting of ferrous metal items and fabricated components are included under their respective trades. Pre-finished items, such as metal toilet partitions, acoustic material and the like, are not included. Unless otherwise indicated, painting not required on surfaces of concealed areas except for piping, equipment and other such items within concealed spaces. Finished metals such as anodized aluminum, stainless steel, bronze, and similar metals will not be painted. Do not paint any moving parts of operation units, or over any equipment identification, performance rating, name or nomenclature plates or code-required labels.

Job Conditions: Do not apply paint in snow, rain, fog or mist or when relative humidity exceeds 85%. Do not apply paint to damp or wet surfaces.

Protection: Protect work of other trades. Correct any painting related damages by cleaning, repairing or replacing, and refinishing, as directed by Owner.

Coordination: Provide finish coats which are compatible with prime paints used. Provide barrier coats over incompatible primers where required. Notify Owner in writing of anticipated problems using specified coatings with substrates primed by others.

Surface Preparation: Performance preparation and cleaning procedures in strict accordance with coating mfr.'s instructions for each substrate condition.

Remove hardware and accessories, machined surfaces, plates, lighting fixtures and similar items in place and not to be finished-painted or provide surface-applied protection. Reinstall removed items an remove protective coverings at completion or work.

Seal wood required to be job-painted prime edges, ends, face, undersides and backsides of counters, cased, cabinets, etc.

Clean ferrous surfaces which are not galvanized or shop coated. Remove oil, grease, dirt, loose mill scale and other foreign substances by solvent or mechanical cleaning. Touch-up shop applied prime coats wherever damaged.

Clean galvanized surfaces free of oil and surface contaminants with non-petroleum based solvent.

Material Preparation: Mix, prepare and store painting and finishing materials in accordance with mfr.'s directions.

Paint Schedule:

PAINTING SCHEDULE		
APPLICATION	FINISH	VEHICLE
EXTERIOR DOORS, FRAMES, GRAVEL GUARDS, AND LIGHT POLES	SEMI-GLOSS	ALKYD

Paint Formulas:

Formula No. 1: Exterior ferrous (non-galvanized) metal surfaces.
1. Preparation: Solvent clean surfaces. Remove loose paint and rust.
2. Finishing:
1st coat: Primer
2nd & 3rd coats: Semi-Gloss ALKYD.
(Note: Omit first coat on surfaces already prime painted. Spot prime as required.)

Formula No. 2: Exterior galvanized surfaces; (doors, frames, gravel guard, flashing, poles and perimeter lights).
1. Preparation: Wash surfaces with Xylol or mineral spirits.
2. Finishing:
1st coat; Galvanized Metal Primer
2nd & 3rd coats: Semi-Gloss Alkyd.

Formula No. 3: Interior ferrous (non-galvanized steel) metal surfaces:
1. Preparation: Solvent clean surfaces. Power tool clean.
2. Finishing:
1st coat: Metal Primer
2nd & 3rd coats: Aqua Glo Semi-Gloss
(Note: Omit first coat on surfaces already prime painted. Spot prime as required.)

Formula No. 4: Interior Galvanized Steel Surfaces:
1. Preparation: Wash surfaces with mineral spirits.
2. Finishing:
1st coat: Galvanized Metal Primer
2nd & 3rd coats: Aqua Glo Semi-Gloss

Formula No. 5: Gypsum Wallboard:
1. Preparation: Gypsum Wallboard: Apply Proko Co. Vinyl sand finish in medium sand finish texture as approved by Architect/Owner.
2. Latex Semi-Gloss Finish:
1st coat: Primer Seal
2nd & 3rd coats: Semi Gloss

Formula No. 6: Interior Wood Doors and Frames;
1. Preparation: Clean, fill, patch, sand, wash surfaces with Xylol or mineral spirits.
2. Latex enamel semi-gloss finish:
1st coat: Latex Enamel Underbody
2nd & 3rd coats: Aqua Glo Semi-Gloss

Formula No. 7: Painted Millwork:
1. Preparation: Clean, fill patch, sand, wash surface with Xylol or mineral spirits.
2. Latex enamel semi-gloss finish:
1st coat: Latex Enamel Underbody
2nd & 3rd coats: Aqua Glo Semi-Gloss

Application: Apply painting and finishing materials in accordance with Manufacturer's written systems specifications. Use applicators and techniques best suited for materials and surface to which applied.

Apply additional coats when undercoats, stains or other conditions show through final paint coat until paint film is of uniform finish, color and appearance.

Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Paint surfaces behind permanently fixed equipment or furniture with prime coat only before equipment is installed.

Paint interior surfaces of ducts, where visible through registers or grilles, flat, non-specular black.

Paint back sides of access panels, and removable or hinged covers to matched exposed surfaces.

Finish exterior doors on tops, bottoms and edges same as exterior faces, unless otherwise indicated.

Sand lightly between succeeding enamel or varnish coats.

Omit first coat (primer) on metal surfaces which have been shop-primed and touch-up painted, unless otherwise specified.
Apply prime coat to material which is required to be painted or finished, and which has not been prime coated by others.

Apply each material at not less than manufacturer's recommended spreading rate, to provide a total dry film to thickness of not less than 4.0 miles for entire coating system of prime and finish coats for 3-coat work.

Completed Work: Match approved samples for color, texture and coverage. Remove, refinish or repaint work not in compliance with specified requirements.

END OF SECTION 09900

SECTION 10200 - LOUVERS AND VENTS

Performance Standard: For performance-rated louvers, provide units whose ratings have been determined in compliance with AMCA Standard 500.

SMACNA Standard: Comply with "Architectural Sheet Metal Manual" recommendations for fabrication construction and installation procedures.

Field Measurements: Verify size, location and placement of louver units prior to fabrication, where possible.

Preassemble units and ship to greatest extent possible.

Manufacturers offering products to comply with requirements include the following:

Airolite Co.
Construction Specialities Inc.

Aluminum Sheet: ASTM B209, Alloy 3003, or 5005 with temper as required for forming and to provide required finish.

Aluminum Extrusions: ASTM B221, Alloy 6063-T52.

Fastenings: Use same material as metal fastened except use hot-dipped galvanized for exterior steel units and stainless steel for exterior aluminum units.

Bituminous Paint: SSPC-Paint 12 (cold-applied asphalt mastic).

Fabrication, General: Provide louvers and accessories of design, materials, sizes, depth, arrangement, and metal thicknesses indicated or required for performance and use intended. Fabricate frames, including sill to suit adjacent construction and provide mullions at spacing indicated but not further apart than recommended by manufacturer.

Metal Finishes: Comply with NAMM "Metal Finishes Manual" to provide uniformly finished products.

Provide color or color matches as indicated or, if not otherwise indicated, as selected by Owner from manufacturer's standard colors.

Factory Painted Aluminum Finish: AA-C12x42RAx (cleaned with inhibited chemicals, conversion coated and painted with organic coating specified below).

High performance coating consisting of inhibitive thermo-cured primer, 1.2 mil dry film thickness, and thermo-cured fluorocarbon coating, 1.0 mil min. Dry film thickness.

Installation: Locate and place louver units plumb, level, in proper alignment with adjoining work, and in accordance with mfr.'s instructions.

Use non-ferrous metal or galvanized anchors and inserts for exterior installations and elsewhere where required for corrosion resistance.

Protect aluminum surfaces from corrosion when in contact with dissimilar metals and concrete or masonry by coating surfaces with zinc chromate primer or bituminous paint.

Repair damaged finishes so that there is no evidence of corrective work.

END OF SECTION 10200

SECTION 10800 -TOILET ACCESSORIES

Submittals: Manufacturer's data and installation instructions.

Manufacturers offering products to comply with requirements for general toilet accessories include the following:

American Specialties, Inc.
American Dispenser Co., Inc.
Bobrick Washroom Equipment, Inc.
The Charles Parker Company

General: Provide toilet accessories as scheduled below. Schedule is based on American Specialties, Inc.

Materials:
Stainless Steel: AISI Type 302/304, with polished No. 4 finish, 22 gauge min., unless otherwise indicated.
Galvanized Steel Mounting Devices: ASTM A386, hot-drip galvanized after fabrication.
Fasteners: Screws, bolts, and other devices of same material as accessory unit or of galvanized steel where concealed.
Toilet Partitions: Plastic Laninate - color to be selected by Architect, Floor Mounted with latches and cok hooks each door.

Fabrication:

General: Stamped names or labels on exposed faces of toilet accessory units are not permitted. Wherever locks are required for particular type of accessory, provide same keying throughout project. Furnish two keys for each lock, properly identified.

Surface-Mounted Accessories: Fabricate units with tight seams and joints, exposed edges rolled. Hang doors or access panels with continuous piano hinge or min. of two 1-1/2" pin hinges of same metal as unit cabinet. Provide concealed anchorage wherever possible.

Paper Towels Dispensers: Model No. ASI-0210; surface mounted. Fabricated of stainless steel with hinged front equipped with tumbler lockset and spring latch bolt. Provide pierced slots at sides as refill indictor.

Capacity: Not less than either 300C-fold or 400 multifold paper towels.

Waste Receptacles: For code compliance. Waste receptacles to be provided by Owner

Toilet Tissue Dispensers: Model No. ASI-0715 double-roll, size to accommodate two separate rolls of core type tissue to 5" diameter. Fabricated with spindless chrome-plated steel construction with tension spring delivery control; designed for surface mounting, self-locking device extends through core and prevents removal of core until roll is completely empty.

Grab Bars (GB BR): ASI-V3500P Series.

Stainless Steel Type: Provide grab bars with wall thickness not less than 18 gauge and as follows:

Mounting: Exposed.

Gripping surfaces: non-slip, polished finish.

Bar Size: Outside diameter 1-1/2".

Length: (2) 36", Type-01 Compliance / conform to ADA and TAS
(2) 54", Type-02 Compliance / conform to ADA and TAS

Mirror: Channel Frame ASI-0620; 18 x 36. Frame 1/2" x 1/2" x 1/2" 20 gauge Type 304L stainless channel. Mirror is installed on two wall brackets and held secure by tamper-proof screw on bottom of unit.

Installation:

General: Install toilet accessory units in accordance with manufacturer's instructions, using fasteners appropriate to substrate and recommend by manufacturer of unit. Install unit plumb and level, firmly anchored in locations indicated. Installation shall conform to A.D.A. Requirements.

Adjust toilet accessories for proper operation and verify that mechanisms function smoothly.

Clean and polish all exposed surfaces after removing protective coatings.

END OF SECTION 10800

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CHECKED BY: DP

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SPECIFICATIONS
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NEW ORLEANS, LOUISIANA 70119

DATE	DESCRIPTION	BY

SCALE:
AS NOTED

PROJECT NO.
083-01

SHEET NO.
SP-5

XREF INDEX:

R10.00

FLORIDA AVENUE

SCALE: 3/32"=1'-0"

LEGEND

- PARKING PERIMETER LANDSCAPE YARD
- BUILDING FOUNDATION/FRONT YARD
- REAR BUFFER YARD
- INTERIOR PARKING LANDSCAPE

20' BUILDING SETBACK LINE

PROPOSED BUILDING
5,432.26 S.F.

ST. BERNARD AVENUE

20' BUILDING SETBACK LINE

FREY PLACE

[DATE: 3/2/2021 5:34 PM] [AUTHOR: jose] [PLOTTER: DWG To PDF.pc3]
[PATH: C:\Users\Jose\Documents\01-PROJECTS\2021-002 - Masonic Temple\L1.0 MASONIC TEMPLE LANDSCAPE.dwg] [LAYOUT: L1.0 LANDSCAPE ILLUSTRATION]

JOSE L. BARRO, LANDSCAPE ARCHITECT AND PLANNER, LLC.
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REVISIONS

NO.	BY	DATE	REMARKS

SHEET INFO

DRAWN	JLB
CHECKED	JLB
APPROVED	JLB
LAST EDIT	3/2/2021
PLOT DATE	3/2/2021
SUBMITTAL	

LANDSCAPE ILLUSTRATION
MASONIC TEMPLE SUPREME COUNCIL A.A.S.R.
DP DESIGNS

SCALE: NOTED

PROJECT NUMBER: 2021-002

DRAWING FILE NAME: L1.0 MASONIC TEMPLE LANDSCAPE

SHEET NUMBER
L1.0

XREF INDEX:

JAPANESE YEW (48)
Podocarpus macrophyllus
3" GAL. AT 36" O.C..

SWAMP RED MAPLES (3)
Acer rubrum "Drummondii"
2-1/2" Cal, 10'-12' Ht.

AZALEAS (32)
Azalea indica
3" GAL. AT 36" O.C..

FLORIDA AVENUE

CRAPE MYRTLE "NATCHEZ" (4)
Lagerstroemia indica
10'-12' Ht., Multi-stem.

INDIAN HAWTHORNE "CLARA" (78)
Raphiolepis indica
3" GAL. AT 36" O.C..

SOD

SHUMARD RED OAK (3)
Acer rubrum "Drummondii"
2-1/2" Cal, 10'-12' Ht.

CRAPE MYRTLE "NATCHEZ" (5)
Lagerstroemia indica
10'-12' Ht., Multi-stem.

SOD

20' BUILDING SETBACK LINE

ST. BERNARD AVENUE

4' DECORATIVE METAL FENCE

INDIAN HAWTHORNE "CLARA" (8)
Raphiolepis indica
3" GAL. AT 36" O.C..

PROPOSED BUILDING
5,432.26 S.F.

CYPRESS (6)
Taxodium Distichum
3" Cal, 10'-12' Ht.

AZALEAS (20)
Azalea indica
3" GAL. AT 36" O.C..

AZALEAS (64)
Azalea indica
3" GAL. AT 36" O.C..

SOD

20' BUILDING SETBACK LINE

7' WOOD FENCE

4' DECORATIVE METAL FENCE

INDIAN HAWTHORNE "CLARA" (8)
Raphiolepis indica
3" GAL. AT 36" O.C..

CRAPE MYRTLE "NATCHEZ" (5)
Lagerstroemia indica
10'-12' Ht., Multi-stem.

FREY PLACE

SWAMP RED MAPLES (5)
Acer rubrum "Drummondii"
2-1/2" Cal, 10'-12' Ht.

LILAC CHASTE TREE (3)
Vitex agnus-castus
20 GAL.

SHUMARD RED OAK (3)
Acer rubrum "Drummondii"
2-1/2" Cal, 10'-12' Ht.

SCALE: 1"=20'

LANDSCAPE NOTES:

1. ALL LANDSCAPING SHALL BE INSTALLED IN ACCORDANCE WITH THE RULES OF GOOD ARBORICULTURAL PRACTICE AS SET FORTH BY THE ANSI A300 AND IN THE LOUISIANA NURESRYMAN'S MANUAL FOR THE ENVIRONMENTAL HORTICULTURE INDUSTRY, LATEST EDITION AS PUBLISHED BY THE LOUISIANA NURSERY AND LANDSCAPE ASSOCIATION, AND CURRENTLY IN EFFECT AT THE TIME OF THE WORK.
2. PLANT MATERIAL SHALL BE TRUE TO NAME, VARIETY AND SIZE AND SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF THE AMERICAN STANDARDS FOR NURSERY STOCK, LATEST EDITION, AS PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
3. LANDSCAPE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH ALL THE APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS. LANDSCAPE CONTRACTOR SHALL BE LICENSED IN THE STATE OF LOUISIANA AT THE TIME OF INSTALLATION.
4. ALL TREES SHALL BE STAKED FOR A MINIMUM OF ONE (1) YEAR. AT THE END OF THE YEAR, ALL STAKES ARE TO BE REMOVED. IF TREES ARE FOUND TO REQUIRE STAKING FOR LONGER TIME, SHALL REMAIN STAKED.
5. ALL PLANTING BEDS AND TREE WELLS SHALL BE MULCHED. ALL OTHER AREAS SHALL BE SEEDED AND/OR SODDED, PER THE PLANS.
6. ALL SHRUBS ARE TO BE PLANTED IN BEDS AND MULCHED.

FRONT YARD:
SEVEN (7) PLANT UNIT OPTION "A"
7-SHADE TREES
14-ORNAMENTAL TREES
140-SHRUBS

JOSE L. BARRO, LANDSCAPE ARCHITECT AND PLANNER, L.L.C.
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REVISIONS

NO.	BY	DATE	REMARKS

SHEET INFO

DRAWN	JLB
CHECKED	JLB
APPROVED	JLB
LAST EDIT	3/2/2021
PLOT DATE	3/2/2021
SUBMITTAL	

LANDSCAPE PLAN
MASONIC TEMPLE SUPREME COUNCIL A.A.S.R.
DP DESIGNS

SCALE: NOTED
DRAWING FILE NAME: L1.0 MASONIC TEMPLE LANDSCAPE
PROJECT NUMBER: 2021-002

SHEET NUMBER
L2.0

[DATE: 3/2/2021 5:35 PM] [AUTHOR: jose] [PLOTTER: DWG To PDF.pc3]
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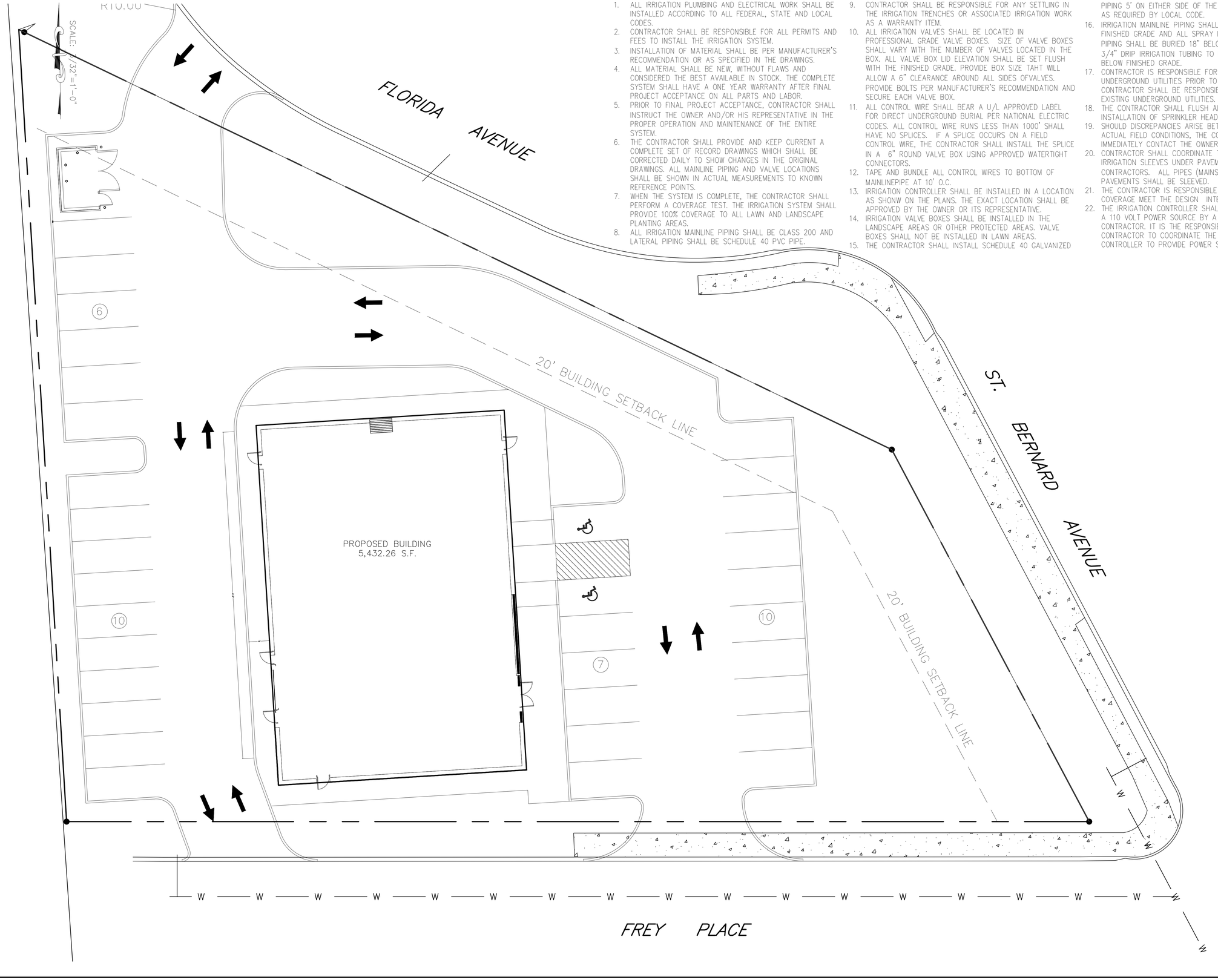
# #

XREF INDEX:

IRRIGATION NOTES:

1. ALL IRRIGATION PLUMBING AND ELECTRICAL WORK SHALL BE INSTALLED ACCORDING TO ALL FEDERAL, STATE AND LOCAL CODES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND FEES TO INSTALL THE IRRIGATION SYSTEM.
3. INSTALLATION OF MATERIAL SHALL BE PER MANUFACTURER'S RECOMMENDATION OR AS SPECIFIED IN THE DRAWINGS.
4. ALL MATERIAL SHALL BE NEW, WITHOUT FLAWS AND CONSIDERED THE BEST AVAILABLE IN STOCK. THE COMPLETE SYSTEM SHALL HAVE A ONE YEAR WARRANTY AFTER FINAL PROJECT ACCEPTANCE ON ALL PARTS AND LABOR.
5. PRIOR TO FINAL PROJECT ACCEPTANCE, CONTRACTOR SHALL INSTRUCT THE OWNER AND/OR HIS REPRESENTATIVE IN THE PROPER OPERATION AND MAINTENANCE OF THE ENTIRE SYSTEM.
6. THE CONTRACTOR SHALL PROVIDE AND KEEP CURRENT A COMPLETE SET OF RECORD DRAWINGS WHICH SHALL BE CORRECTED DAILY TO SHOW CHANGES IN THE ORIGINAL DRAWINGS. ALL MAINLINE PIPING AND VALVE LOCATIONS SHALL BE SHOWN IN ACTUAL MEASUREMENTS TO KNOWN REFERENCE POINTS.
7. WHEN THE SYSTEM IS COMPLETE, THE CONTRACTOR SHALL PERFORM A COVERAGE TEST. THE IRRIGATION SYSTEM SHALL PROVIDE 100% COVERAGE TO ALL LAWN AND LANDSCAPE PLANTING AREAS.
8. ALL IRRIGATION MAINLINE PIPING SHALL BE CLASS 200 AND LATERAL PIPING SHALL BE SCHEDULE 40 PVC PIPE.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SETTLING IN THE IRRIGATION TRENCHES OR ASSOCIATED IRRIGATION WORK AS A WARRANTY ITEM.
10. ALL IRRIGATION VALVES SHALL BE LOCATED IN PROFESSIONAL GRADE VALVE BOXES. SIZE OF VALVE BOXES SHALL VARY WITH THE NUMBER OF VALVES LOCATED IN THE BOX. ALL VALVE BOX LID ELEVATION SHALL BE SET FLUSH WITH THE FINISHED GRADE. PROVIDE BOX SIZE TAHT WILL ALLOW A 6" CLEARANCE AROUND ALL SIDES OFVALVES. PROVIDE BOLTS PER MANUFACTURER'S RECOMMENDATION AND SECURE EACH VALVE BOX.
11. ALL CONTROL WIRE SHALL BEAR A U/L APPROVED LABEL FOR DIRECT UNDERGROUND BURIAL PER NATIONAL ELECTRIC CODES. ALL CONTROL WIRE RUNS LESS THAN 1000' SHALL HAVE NO SPLICES. IF A SPLICE OCCURS ON A FIELD CONTROL WIRE, THE CONTRACTOR SHALL INSTALL THE SPLICE IN A 6" ROUND VALVE BOX USING APPROVED WATERTIGHT CONNECTORS.
12. TAPE AND BUNDLE ALL CONTROL WIRES TO BOTTOM OF MAINLINEPIPE AT 10' O.C.
13. IRRIGATION CONTROLLER SHALL BE INSTALLED IN A LOCATION AS SHONW ON THE PLANS. THE EXACT LOCATION SHALL BE APPROVED BY THE OWNER OR ITS REPRESENTATIVE.
14. IRRIGATION VALVE BOXES SHALL BE INSTALLED IN THE LANDSCAPE AREAS OR OTHER PROTECTED AREAS. VALVE BOXES SHALL NOT BE INSTALLED IN LAWN AREAS.
15. THE CONTRACTOR SHALL INSTALL SCHEDULE 40 GALVANIZED PIPING 5' ON EITHER SIDE OF THE BACKFLOW PREVENTER OR AS REQUIRED BY LOCAL CODE.
16. IRRIGATION MAINLINE PIPING SHALL BE BURIED 24" BELOW FINISHED GRADE AND ALL SPRAY IRRIGATION LATERAL LINE PIPING SHALL BE BURIED 18" BELOW FINISHED GRADE. ALL 3/4" DRIP IRRIGATION TUBING TO BE BURIED 4" TO 6" BELOW FINISHED GRADE.
17. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UNDERGROUND UTILITIES.
18. THE CONTRACTOR SHALL FLUSH ALL LINES PRIOR TO INSTALLATION OF SPRINKLER HEADS.
19. SHOULD DISCREPANCIES ARISE BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE OWNER OR ITS REPRESENTATIVE.
20. CONTRACTOR SHALL COORDINATE THE LOCATION OF IRRIGATION SLEEVES UNDER PAVEMENT WITH OTHER CONTRACTORS. ALL PIPES (MAINS AND LATERALS) UNDER PAVEMENTS SHALL BE SLEEVED.
21. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE SPRAY COVERAGE MEET THE DESIGN INTENT.
22. THE IRRIGATION CONTROLLER SHALL BE WIRED DIRECTLY TO A 110 VOLT POWER SOURCE BY A LICENSED ELECTRICAL CONTRACTOR. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE THE EXACT LOCATION OF THE CONTROLLER TO PROVIDE POWER SOURCE.



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REVISIONS

NO.	BY	DATE	REMARKS

SHEET INFO

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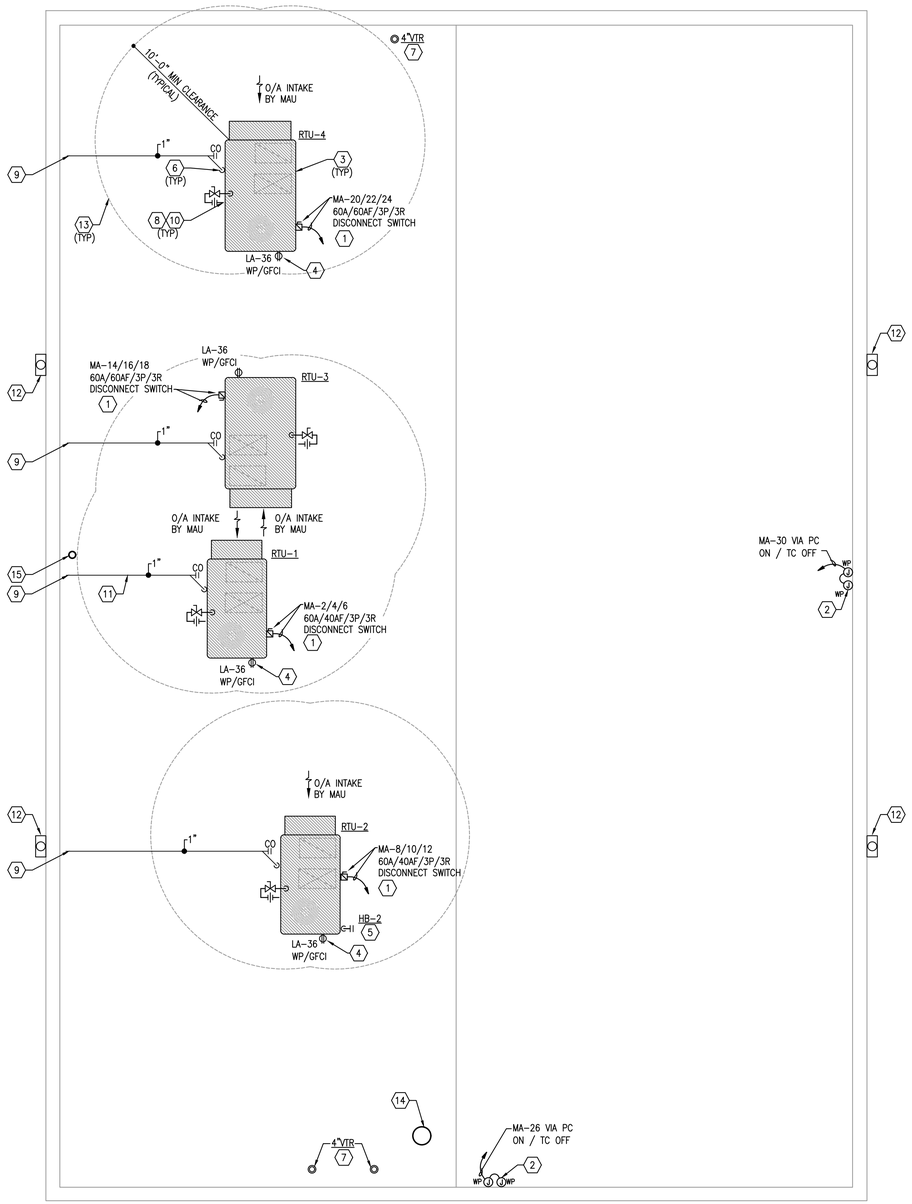
IRRIGATION PLAN
MASONIC TEMPLE SUPREME COUNCIL A.A.S.R.
DP DESIGNS

PROJECT NUMBER 2021-002
DRAWING FILE NAME L1.0 MASONIC TEMPLE LANDSCAPE
SCALE NOTED

SHEET NUMBER
L3.0

[DATE: 2/23/2021 3:55 PM] [AUTHOR: jose] [PLOTTER: DWG to PDF.pc3]
[PATH: C:\Users\Jose\Documents\01-PROJECTS\2021-002 - Masonic Temple\L1.0 MASONIC TEMPLE LANDSCAPE.dwg] [LAYOUT: L3.0 IRRIGATION PLAN]



KEYED NOTES

1.	FACTORY PROVIDED AC UNIT CONTROL PANEL. (VERIFY LOCATION). HACR BREAKER / DISCONNECT SWITCH FURNISHED WITH EQUIPMENT.
2.	VERIFY LOCATION & NUMBER OF SIGNS WITH SIGN VENDOR. RUN SIGN CIRCUITS THROUGH CONTACTOR, CONTROLLED THROUGH PHOTOCELL/TIMECLOCK. PROVIDE FLUSH MOUNTED WEATHERPROOF J-BOX ON EXTERIOR FACE OF WALL. PROVIDE DISCONNECTING MEANS PER NEC AND LOCAL AUTHORITY HAVING JURISDICTION.
3.	G.C. SHALL COORDINATE FINAL LOCATIONS FOR ALL ROOFTOP EQUIPMENT PRIOR TO ROUGH-IN.
4.	WP/GFI SERVICE RECEPTACLE FURNISHED WITH RTU. CONTRACTOR SHALL CIRCUIT TO PANEL.
5.	ROUTE 3/4" COLD WATER UP FROM THE HVAC UNIT ROOF CURB AND CONNECT TO HOSE BIBB MOUNTED ON THE SIDE OF THE ROOF CURB 10" ABOVE THE FINISHED ROOF DECK TO AVOID CONFLICT WITH THE SINGLE PLY ROOFING MEMBRANE. REFER TO THE WATER AND GAS PLUMBING PLAN FOR CONTINUATION OF PIPING BELOW THE ROOF.
6.	CONDENSATE PIPING FROM THE MECHANICAL UNIT SHALL BE ROUTED ON THE ROOF AS SHOWN, AT A MINIMUM PITCH OF 1/4" PER FOOT IN THE DIRECTION OF FLOW.
7.	FIELD COORDINATE LOCATION OF THE ROOF MOUNTED VTR. THE LOCATION SHALL BE A MINIMUM OF 10'-0" FROM ANY OUTDOOR AIR INTAKE.
8.	GAS PIPING TO THE MECHANICAL UNIT SHALL TURN BACK THROUGH THE ROOF CURB. PROVIDE WEATHER TIGHT SEAL AT PIPE PENETRATION. REFER TO THE WATER AND GAS PLUMBING PLAN FOR CONTINUATION OF PIPING BELOW THE ROOF.
9.	ROUTE CONDENSATE PIPING AS SHOWN ON ROOF AND DISCHARGE AT ROOF GUTTER.
10.	GAS CONNECTION TO UNIT COMPLETE WITH GAS COCK, UNION & 6" DIRT LEG.
11.	ALL PIPING INSTALLED ON THE ROOF SHALL BE SUPPORTED WITH PRE-MANUFACTURED ADJUSTABLE PIPE SUPPORTS AT MAXIMUM 5'-0" ON CENTER AND EVERY CHANGE OF DIRECTION.
12.	CONTRACTOR TO VERIFY WITH ARCHITECT NUMBER AND LOCATIONS OF GUTTER DOWNSPOUTS PRIOR TO BID.
13.	MAINTAIN A MINIMUM 10'-0" HORIZONTAL SEPARATION BETWEEN ANY EXHAUST AND OUTDOOR AIR INTAKE.
14.	ROUTE 16"ø COMBINED EXHAUST DUCT THRU ROOF (FIELD VERIFY). FURNISH AND INSTALL WITH BACKDRAFT DAMPER, ROOF CAP AND ACCESSORIES AS REQUIRED.
15.	ROUTE 6"ø EXHAUST DUCT THRU ROOF (FIELD VERIFY). FURNISH AND INSTALL WITH BACKDRAFT DAMPER, ROOF CAP AND ACCESSORIES AS REQUIRED.

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02/24/2021

MEP ROOF PLAN

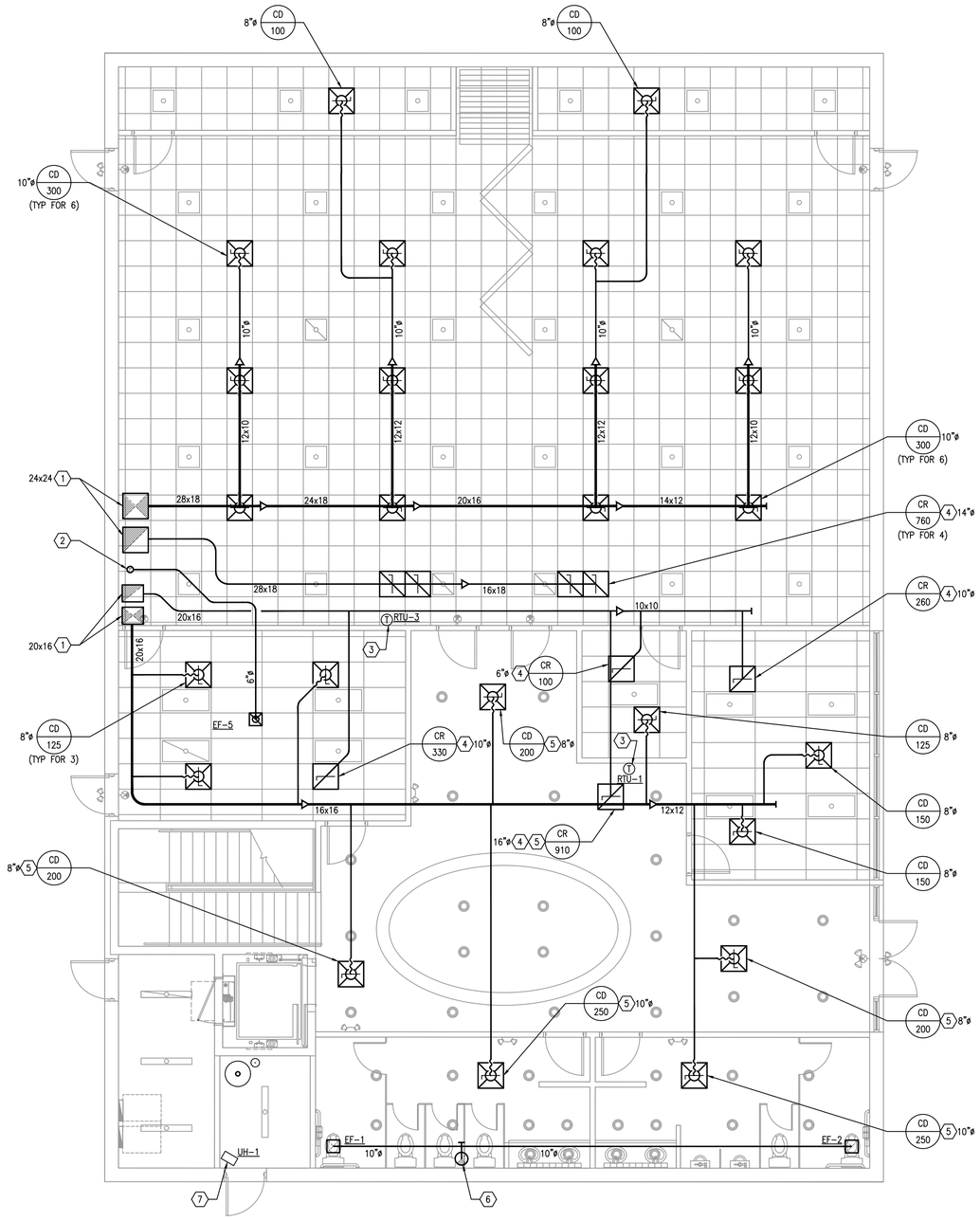
MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

DATE	DESCRIPTION	BY
02/24/2021	ISSUE FOR PERMIT	

SCALE:
AS NOTED

PROJECT NO.
083-01

SHEET NO.
MEP1.1



MECHANICAL PLAN - 1ST FLOOR
3/16"=1'-0"

1

GENERAL NOTES

A.	ALL OUTDOOR AIR INTAKES BY MECHANICAL EQUIPMENT SHALL HAVE A MINIMUM 10'-0" HORIZONTAL CLEARANCE FROM THE DISCHARGE OF ANY EXHAUST FAN, COMBUSTION EXHAUST OR PLUMBING VENT.
B.	PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE DUCT/ PIPING CONNECTIONS TO ALL MOVING MACHINERY NOT INTERNALLY ISOLATED.
C.	ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
D.	THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH LIGHT FIXTURES AS WELL AS SPRINKLER PIPING AND HEADS (WHERE INCLUDED IN THE PROJECT) FOR A COMPLETE INSTALLATION.
E.	LOCATIONS FOR THERMOSTATS AND REMOTE SENSORS SHALL BE FIELD COORDINATED TO AVOID INTERFERENCE WITH WALL-MOUNTED DECOR OR PROXIMITY TO HEAT PRODUCING EQUIPMENT.
F.	ALL HVAC AND RESTROOM EXHAUST DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE UNDER THE ROOF STRUCTURE.
G.	ALL RECTANGULAR, ROUND, AND FLEXIBLE DUCTWORK SHALL BE SIZED AS SHOWN ON THESE DRAWINGS, AND SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MOST RECENTLY PUBLISHED SMACNA STANDARDS. ALL JOINTS, SEAMS, AND CONNECTIONS MUST BE SECURELY FASTENED & SEALED BY APPROVED METHODS.
H.	ANY FLEXIBLE DUCTS SHALL BE INSTALLED IN CONCEALED SPACES ONLY. THE MAXIMUM ALLOWABLE LENGTH OF FLEXIBLE DUCT SHALL BE 5'-0". ALL FLEXIBLE DUCTS SHALL BE CONNECTED TO BRANCH RUNS AND FITTINGS WITH A PANDUIT-TYPE BAND, AND SHALL NOT BE ATTACHED DIRECTLY TO THE AIR DEVICE COLLAR.
I.	SUPPLY, RETURN, RESTROOM EXHAUST AIR DUCT CONSTRUCTION SHALL BE GALVANIZED STEEL. GAUGES, SWAY BRACING AND SUSPENSION SHALL CONFORM TO SMACNA STANDARDS. SEAL ALL SEAMS AND JOINTS AIR AND WATERTIGHT. FLEXIBLE ALUMINUM DUCTWORK OR FIBERGLASS DUCTBOARD IS NOT ALLOWED (UNO).
J.	PITCH ALL HORIZONTAL GREASE AND CONDENSATE DUCTWORK UNIFORMLY BACK TOWARDS THE RESPECTIVE HOOD OR APPLIANCE AT A MINIMUM 1/4" PER FOOT (NOT TO EXCEED 50'-0").
K.	THE WALL MOUNTED CANOPY TYPE KITCHEN EXHAUST HOODS SHALL BE INSTALLED AT 6'-8" AFF (UNO). COORDINATE THE INSTALLATION AND PLACEMENT OF THE EXHAUST HOODS IN THE FIELD.
L.	REFER TO MANUFACTURER SHEETS FOR THE HOOD CONTROL WIRING DIAGRAM FOR OPERATION OF THE KITCHEN HOOD EQUIPMENT.
M.	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING THE AIR FILTERS AT THE ROOFTOP UNITS WITH 2" THICK PLEATED MERV 7 THROW AWAY TYPE AIR FILTERS AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO AIR BALANCE AND STORE TURNOVER.

KEYED NOTES

1.	SUPPLY AND RETURN DUCTS DOWN THROUGH SHAFT SIZED AS SHOWN. FIELD VERIFY ANY REQUIRED TRANSITIONS OR OFFSETS OF DUCT FROM STRUCTURE.
2.	EXTEND THE 6"ø BREAK ROOM EXHAUST RISER UP THRU THE SHAFT TO SECOND FLOOR ABOVE CEILING. FIELD VERIFY ANY REQUIRED TRANSITIONS OR OFFSETS OF EXHAUST DUCT FROM STRUCTURE.
3.	WALL MOUNTED THERMOSTAT SHALL BE MOUNTED AT 48" AFF. COORDINATE PLACEMENT WITH WALL DECOR AND EQUIPMENT. FIELD VERIFY WITH THE OWNER'S REPRESENTATIVE FOR THE FINAL LOCATION PRIOR TO INSTALLATION.
4.	RETURN GRILLE AIR QUANTITY LISTED IS FOR PARTIAL RETURN DURING STANDARD OPERATING HOURS. RETURN DUCTS ARE SIZED FOR FULL RETURN DURING NIGHT SETBACK CONDITIONS. REFER TO SHEET M2.1 FOR AIR BALANCE REPORT ON DESIGN AIRFLOW RATES.
5.	AIR DEVICE IN HARD LID CEILING SHALL BE INSTALLED COMPLETE WITH OPPOSED BLADE DAMPER FOR MANUAL VOLUME ADJUSTMENT.
6.	EXTEND THE 12"ø RESTROOM EXHAUST RISER UP THRU SHAFT TO SECOND FLOOR ABOVE CEILING. FIELD VERIFY ANY REQUIRED TRANSITIONS OR OFFSETS OF EXHAUST DUCT FROM STRUCTURE.
7.	UNIT HEATER SHALL BE MOUNTED ON FACTORY AVAILABLE WALL BRACKET, AS HIGH AS POSSIBLE FOR CLEARANCE ABOVE THE DOOR JAMB. ANGLE THE DISCHARGE FACE DOWN TOWARDS THE WATER PIPING.

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02/24/2021

MECHANICAL PLAN - FIRST FLOOR

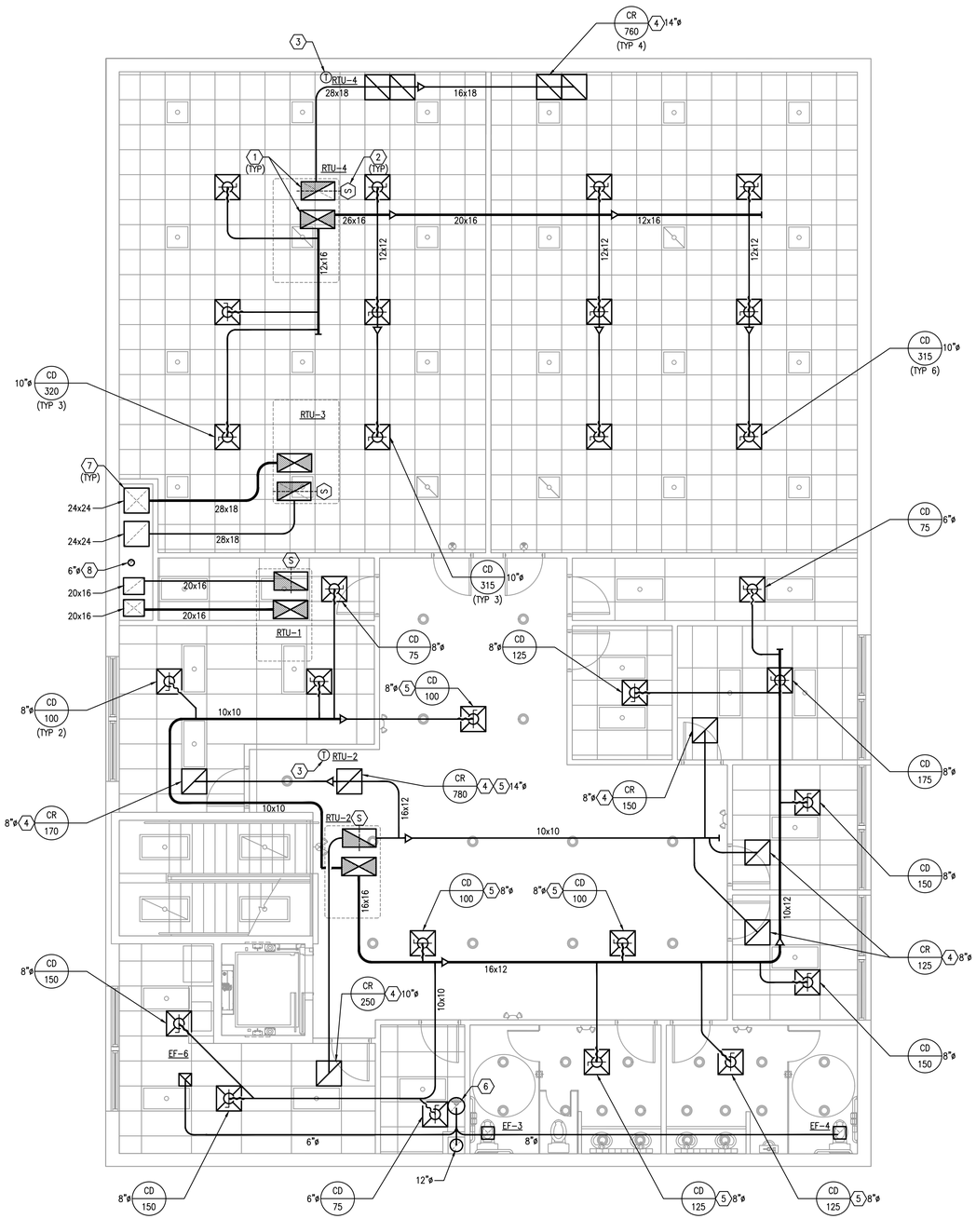
MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

DATE	DESCRIPTION	BY
02/24/2021	ISSUE FOR PERMIT	

SCALE:
AS NOTED

PROJECT NO.
083-01

SHEET NO.
M1.1



MECHANICAL PLAN - 2ND FLOOR
3/16"=1'-0"

1

GENERAL NOTES

A.	ALL OUTDOOR AIR INTAKES BY MECHANICAL EQUIPMENT SHALL HAVE A MINIMUM 10'-0" HORIZONTAL CLEARANCE FROM THE DISCHARGE OF ANY EXHAUST FAN, COMBUSTION EXHAUST OR PLUMBING VENT.
B.	PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE DUCT/ PIPING CONNECTIONS TO ALL MOVING MACHINERY NOT INTERNALLY ISOLATED.
C.	ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
D.	THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH LIGHT FIXTURES AS WELL AS SPRINKLER PIPING AND HEADS (WHERE INCLUDED IN THE PROJECT) FOR A COMPLETE INSTALLATION.
E.	LOCATIONS FOR THERMOSTATS AND REMOTE SENSORS SHALL BE FIELD COORDINATED TO AVOID INTERFERENCE WITH WALL-MOUNTED DECOR OR PROXIMITY TO HEAT PRODUCING EQUIPMENT.
F.	ALL HVAC AND RESTROOM EXHAUST DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE UNDER THE ROOF STRUCTURE.
G.	ALL RECTANGULAR, ROUND, AND FLEXIBLE DUCTWORK SHALL BE SIZED AS SHOWN ON THESE DRAWINGS, AND SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MOST RECENTLY PUBLISHED SMACNA STANDARDS. ALL JOINTS, SEAMS, AND CONNECTIONS MUST BE SECURELY FASTENED & SEALED BY APPROVED METHODS.
H.	ANY FLEXIBLE DUCTS SHALL BE INSTALLED IN CONCEALED SPACES ONLY. THE MAXIMUM ALLOWABLE LENGTH OF FLEXIBLE DUCT SHALL BE 5'-0". ALL FLEXIBLE DUCTS SHALL BE CONNECTED TO BRANCH RUNS AND FITTINGS WITH A PANDUIT-TYPE BAND, AND SHALL NOT BE ATTACHED DIRECTLY TO THE AIR DEVICE COLLAR.
I.	SUPPLY, RETURN, RESTROOM EXHAUST AIR DUCT CONSTRUCTION SHALL BE GALVANIZED STEEL. GAUGES, SWAY BRACING AND SUSPENSION SHALL CONFORM TO SMACNA STANDARDS. SEAL ALL SEAMS AND JOINTS AIR AND WATERTIGHT. FLEXIBLE ALUMINUM DUCTWORK OR FIBERGLASS DUCTBOARD IS NOT ALLOWED (UNO).
J.	PITCH ALL HORIZONTAL GREASE AND CONDENSATE DUCTWORK UNIFORMLY BACK TOWARDS THE RESPECTIVE HOOD OR APPLIANCE AT A MINIMUM 1/4" PER FOOT (NOT TO EXCEED 50'-0").
K.	THE WALL MOUNTED CANOPY TYPE KITCHEN EXHAUST HOODS SHALL BE INSTALLED AT 6'-8" AFF (UNO). COORDINATE THE INSTALLATION AND PLACEMENT OF THE EXHAUST HOODS IN THE FIELD.
L.	REFER TO MANUFACTURER SHEETS FOR THE HOOD CONTROL WIRING DIAGRAM FOR OPERATION OF THE KITCHEN HOOD EQUIPMENT.
M.	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING THE AIR FILTERS AT THE ROOFTOP UNITS WITH 2" THICK PLEATED MERV 7 THROW AWAY TYPE AIR FILTERS AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO AIR BALANCE AND STORE TURNOVER.

KEYED NOTES

1.	SUPPLY AND RETURN DUCTS DOWN FROM THE RTU CONNECTIONS THRU ROOF. COORDINATE WITH LANDLORD ROOFING CONTRACTOR FOR ALL ROOF WORK. FIRST 10'-0" OF SUPPLY AND RETURN DUCTWORK SHALL BE INTERNALLY LINED.
2.	PROVIDE FACTORY AVAILABLE SMOKE DETECTOR CAPABLE OF SHUTTING DOWN THE RESPECTIVE MECHANICAL UNIT UPON ACTIVATION.
3.	WALL MOUNTED THERMOSTAT SHALL BE MOUNTED AT 48" AFF. COORDINATE PLACEMENT WITH WALL DECOR AND EQUIPMENT. FIELD VERIFY WITH THE OWNER'S REPRESENTATIVE FOR THE FINAL LOCATION PRIOR TO INSTALLATION.
4.	RETURN GRILLE AIR QUANTITY LISTED IS FOR PARTIAL RETURN DURING STANDARD OPERATING HOURS. RETURN DUCTS ARE SIZED FOR FULL RETURN DURING NIGHT SETBACK CONDITIONS. REFER TO SHEET M2.1 FOR AIR BALANCE REPORT ON DESIGN AIRFLOW RATES.
5.	AIR DEVICE IN HARD LID CEILING SHALL BE INSTALLED COMPLETE WITH OPPOSED BLADE DAMPER FOR MANUAL VOLUME ADJUSTMENT.
6.	EXTEND THE COMBINED 16"ø EXHAUST RISER UP TO ROOF CAP. FIELD VERIFY ANY REQUIRED TRANSITIONS OR OFFSETS OF EXHAUST DUCT FROM STRUCTURE. COORDINATE WITH LANDLORD ROOFING CONTRACTOR FOR ALL ROOF WORK.
7.	ROUTE DUCTWORK DOWN THRU SHAFT SIZED AS SHOWN. FIELD VERIFY ANY REQUIRED TRANSITIONS OR OFFSETS OF DUCT FROM STRUCTURE.
8.	EXTEND THE 6"ø BREAK ROOM EXHAUST RISER UP FROM SHAFT TO ROOF CAP. FIELD VERIFY ANY REQUIRED TRANSITIONS OR OFFSETS OF EXHAUST DUCT FROM STRUCTURE.

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02/24/2021

MECHANICAL PLAN - SECOND FLOOR

MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

DATE	DESCRIPTION	BY
02/24/2021	ISSUE FOR PERMIT	

SCALE:
AS NOTED

PROJECT NO.
083-01

SHEET NO.
M1.2

TEST AND BALANCE NOTES

1. THE GENERAL CONTRACTOR SHALL SUBCONTRACT TO AN AIR TEST AND BALANCE CONTRACTOR THE TESTING, ADJUSTING AND BALANCING OF ALL ENVIRONMENTAL SYSTEMS SHOWN OR SPECIFIED ON THE CONTRACT DOCUMENTS. THE WORK SHALL BE PERFORMED BY A FIRM CERTIFIED BY EITHER AABC OR NEBB, AND FOUR (4) COPIES OF THE FINAL REPORT, SUBMITTED ON CERTIFYING AGENCY FORMS, SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR APPROVAL. THE REPORT SHALL BEAR THE CERTIFICATION SEAL OF THE TAB SUPERVISOR IN CHARGE. REPORTS SHALL CONTAIN ALL AIR SIDE BALANCING DATA, INSTRUMENTS USED AND THEIR LATEST CALIBRATION DATES, PERSON(S) PERFORMING THE WORK AND A WRITTEN GUARANTEE THAT ALL TAB WORK WAS PERFORMED IN ACCORDANCE WITH THE CERTIFYING AGENCY STANDARDS AND PROCEDURES. AN INDEPENDENT AIR BALANCING CONTRACTOR MAY PERFORM THIS WORK ONLY UPON WRITTEN SUBMISSION OF QUALIFICATIONS AND SUBSEQUENT APPROVAL BY THE PROJECT ENGINEER.

PACKAGED ROOFTOP UNIT SCHEDULE

	MARK	RTU–1	RTU–2	RTU–3	RTU–4
GENERAL	SERVING	1ST FLOOR	2ND FLOOR	1ST FLR MEETING	2ND FLR MEETING
	MANUFACTURER	TRANE	TRANE	TRANE	TRANE
	MODEL NO.	YHC060E3	YHC060E3	YHC120F3	YHC120F3
	TYPE	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC
	OPERATING WEIGHT, LBS.	882	882	1259	1259
	LENGTH, WIDTH, HEIGHT	89x54x41	89x54x41	100x64x52	100x64x52
	MINIMUM EER	11.9	11.9	12.4	12.4
ELECTRICAL	VOLTS/ PH/ HZ	208/3/60	208/3/60	208/3/60	208/3/60
	MCA (AMPS)	26	26	48	48
	MOCP (AMPS)	40	40	60	60
SUPPLY FAN	SUPPLY AIR CFM	1900	1900	3800	3800
	OUTSIDE AIR CFM	300	300	760	760
	ESP ("W.G.)	0.80	0.80	0.80	0.80
	FAN RPM	1063	1063	1388	1388
	MOTOR BHP	0.90	0.90	1.05	1.05
COOLING	NOMINAL SIZE TONS	5.0	5.0	10.0	10.0
	TOTAL CAPACITY (MBH)	60.8	60.8	111.3	111.3
	SENSIBLE CAPACITY (MBH)	43.4	43.4	90.1	90.1
	OUTSIDE AIR DB °F.	93	93	93	93
	ENTERING AIR DB/WB, °F.	80/67	80/67	80/67	80/67
HEATING	TYPE OF HEAT	GAS	GAS	GAS	GAS
	HEATING INPUT (MBH)	80	80	150	150
	HEATING OUTPUT (MBH)	64	64	120	120
	OUTSIDE AIR DB, °F.	25	25	25	25
	LEAVING AIR DB, °F.	101.5	101.5	99.6	99.6
NOTES		1–13	1–13	1–13	1–13

NOTES:

1. MECHANICAL CONTRACTOR TO PROVIDE A TAPERED CURB THAT SHALL BE INSTALLED SUCH THAT THE TOP OF THE CURB SETS LEVEL. ROOF CURBS TO BE INSTALLED BY THE GENERAL CONTRACTOR, AND FIELD INSULATED BY THE MECHANICAL CONTRACTOR.
2. PROVIDE WITH LOW AMBIENT CONTROLS (DOWN TO 0°F), MICROPROCESSOR CONTROLS, CONDENSER COIL HAIL GUARD, DISCHARGE AIR SENSOR, HINGED ACCESS PANELS, CRANK CASE HEATER, AND FROSTAT.
3. PROVIDE WITH DISCHARGE AIR SENSOR SO THAT THE INSTALLING CONTRACTOR SHALL SETUP THE UNIT TO TEMPER THE OUTDOOR AIR INTAKE DURING THE HEATING CYCLE.
4. THERMOSTATS AND CONTROL WIRING TO BE REUSED WITH NEW UNITS. VERIFY IN FIELD EXISTING THERMOSTATS ARE COMPATIBLE WITH NEW UNITS.
5. PROVIDE FACTORY INSTALLED ENTHALPY CONTROLLED ECONOMIZER WITH MOTORIZED OUTSIDE AIR DAMPER.
6. PROVIDE FACTORY AVAILABLE RETURN AIR SMOKE DETECTOR(S), CAPABLE OF SHUTTING DOWN THE ROOFTOP UNIT UPON ACTIVATION.
7. PROVIDE FACTORY INSTALLED NON–FUSED ELECTRICAL DISCONNECT. CONVENIENCE RECEPTACLE SHALL BE FIELD WIRED BY THE E.C. AND POWERED SEPARATELY FROM THE UNIT.
8. PROVIDE SINGLE POINT ELECTRICAL POWER CONNECTION INCLUDING STARTERS AND CONTROLS.
9. UNIT SELECTIONS ARE BASED ON R–410A REFRIGERANT AND HIGH EFFICIENCY OPERATION.
10. PROVIDE WITH MANUFACTURER'S OPTION FOR HOT GAS REHEAT, AND MANUFACTURER'S ADJUSTABLE REMOTE HUMIDITY SENSOR CAPABLE OF AUTOMATIC OPERATION OF THE COOLING CYCLE (ONCE THE DEMAND FOR COOLING IS SATISFIED BY THE T–STAT) FOR SUPPLEMENTAL DEHUMIDIFICATION.
11. PROVIDE WITH THRU–THE–BASE GAS AND ELECTRICAL CONNECTIONS.
12. PROVIDE HIGH WIND CURB CLIPS FOR ATTACHING THE ROOF TOP UNIT TO A NOA CERTIFIED CURB.
13. CONTACT MR. BOB VAN GUILDER (TRANE) AT (214)–957–3692 FOR PRICING AND VERIFY FINAL SELECTIONS FOR EQUIPMENT SELECTION INFORMATION AND ORDERING.

MECHANICAL LEGEND

SYMBOL	ABBR.	DESCRIPTION
	CD	CEILING DIFFUSER – SUPPLY
	CD	CEILING DIFFUSER BELOW DUCT – SUPPLY
	SAD	RISER – SUPPLY AIR DUCT
	SAD	DROP – SUPPLY AIR DUCT
	CR	CEILING REGISTER – RETURN
	CR	CEILING REGISTER BELOW DUCT – RETURN
	RAD	RISER – RETURN AIR DUCT
	RAD	DROP – RETURN AIR DUCT
	CE	CEILING REGISTER – EXHAUST
	CE	CEILING REGISTER BELOW DUCT – EXHAUST
	EAD	RISER – EXHAUST AIR DUCT
	(L)	LINED DUCTWORK
	VD	MANUAL VOLUME DAMPER
	FC	FLEXIBLE CONNECTION
		NEW DUCT
TAG CFM		AIR DEVICE DESIGNATION
T	TSTAT	PROGRAMMABLE THERMOSTAT
S	SENS	REMOTE TEMPERATURE SENSOR
S	SD	SMOKE DETECTOR
	POC	POINT OF CONNECTION
	CFM	CUBIC FEET PER MINUTE
	S/A	SUPPLY AIR
	O/A	OUTSIDE AIR
	E/A	EXHAUST AIR
	S.P.	STATIC PRESSURE
	FOH	FRONT OF HOUSE
	BOH	BACK OF HOUSE

MECHANICAL GENERAL NOTES

1. NOTE: FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS.
2. THE MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATE WITH THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR THE COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
3. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH THEY FURNISH AND INSTALL.
4. PROVIDE WRITTEN WARRANTY TO REPLACE ALL FAULTY MATERIALS AND/OR LABOR, AT NO COST TO TENANT, FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE. PROVIDE 5 YEAR COMPRESSOR WARRANTY FOR AC UNITS. WARRANTIES SHALL BEGIN ON THE DATE OF SUBSTANTIAL COMPLETION.
5. ALL OUTDOOR AIR INTAKE BY MECHANICAL EQUIPMENT SHALL HAVE A MINIMUM 10'–0" HORIZONTAL CLEARANCE FROM THE DISCHARGE OF ANY EXHAUST FAN, RTU GAS EXHAUST OR PLUMBING VENT.
6. PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE DUCT/ PIPING CONNECTIONS TO ALL MOVING MACHINERY NOT INTERNALLY ISOLATED.
7. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
8. THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH LIGHT FIXTURES AS REQUIRED FOR A COMPLETE INSTALLATION.
9. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS AND PENETRATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOF SHALL BE CONSTRUCTED INTO THE STRUCTURE WITH THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
10. ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE INSTALLED BY THE ROOFING CONTRACTOR. ENSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED FOR POWER.
11. COORDINATE THE INSTALLATION AND FINISH OF ALL SUPPLY AND RETURN AIR DEVICES. AIR DEVICES SHALL BE PAINTED PER THE ARCHITECTURAL DRAWINGS FINISH SCHEDULE.
12. THERMOSTATS AND REMOTE SENSORS SHALL BE LOCATED AT 48" A.F.F. EXACT LOCATIONS SHALL BE FIELD COORDINATED TO AVOID INTERFERENCE WITH WALL–MOUNTED WORK AND HEAT PRODUCING EQUIPMENT.
13. THERMOSTATS SHALL BE RTU MANUFACTURER AVAILABLE 24/7 AUTOMATIC CHANGEOVER TYPE TO SEQUENCE HEATING AND COOLING. SET POINT RANGE SHALL BE 10°F BETWEEN FULL HEATING AND FULL COOLING. ADJUSTABLE TEMPERATURE DIFFERENTIAL SHALL BE 1–1/2°F. THERMOSTAT CONTROL RANGE SHALL BE 55°F TO 85°F. CONTROLS SHALL HAVE CAPABILITY OF TERMINATING HEATING AT NO HIGHER THAN 70°F AND COOLING AT NO LOWER THAN 75°F.
14. ROOFTOP UNITS SHALL BE SET TO RUN IN "FAN CONTINUOUS" MODE DURING OCCUPIED HOURS. DURING NIGHT SET–BACK HOURS, THE ROOFTOP UNITS SHALL RUN IN "FAN AUTO" MODE. CONTRACTOR SHALL COORDINATE NECESSARY CONTROL WIRING REQUIREMENTS WITH THE MANUFACTURER TO ACCOMPLISH THIS CONTROL SEQUENCE WITHOUT THE USE OF A MANUAL SWITCH ON THE SUB–BASE.
15. MECHANICAL CONTRACTOR TO FURNISH AND INSTALL 4" HIGH BLACK OVER WHITE LAMINATE NAMEPLATE WITH 2" LETTERS VISIBLE ADJACENT TO DISCONNECT SWITCH FOR ROOFTOP UNITS AND ROOF MOUNTED FANS.
16. LINE VOLTAGE WIRING, ALL CONDUIT DISCONNECT SWITCHES AND FINAL CONNECTION BY ELECTRICAL CONTRACTOR. LOW VOLTAGE CONDUIT AND WIRING AND FINAL CONNECTION BY MECHANICAL CONTRACTOR.
17. ANY FLEXIBLE DUCTS SHALL BE INSTALLED IN CONCEALED SPACES ONLY. THE MAXIMUM ALLOWABLE LENGTH OF FLEXIBLE DUCT SHALL BE 5'–0". ALL FLEXIBLE DUCTS SHALL BE CONNECTED TO BRANCH RUNS AND FITTINGS WITH A PANDUIT–TYPE BAND, AND SHALL NOT BE ATTACHED DIRECTLY TO THE AIR DEVICE COLLAR.
18. A FULL MECHANICAL AIR TEST AND BALANCE REPORT SHALL BE PERFORMED BY AN INDEPENDENT CONTRACTOR.
19. MECHANICAL CONTRACTOR SHALL BE ON SITE AND PRESENT AT THE DATE OF STORE TURNOVER.

MECHANICAL GENERAL NOTES (CONT)

20. ROOF CURBS FOR ROOFTOP UNITS SHALL BE FACTORY AVAILABLE TAPERED OF FULL WELDED STEEL CONSTRUCTION WITH WOOD NAILER SUCH THAT THE TOP OF THE CURB SETS LEVEL. VERIFY REQUIREMENTS FOR THE ROOF CURBS WITH THE EQUIPMENT SUPPLIER. THE GENERAL CONTRACTOR SHALL FLASH ROOF CURBS AND SHIM DEAD LEVEL. COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH THE STRUCTURAL FRAMING. CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.
21. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING THE AIR FILTERS AT THE ROOFTOP UNITS WITH 2" THICK MERV 8 THROW AWAY TYPE AIR FILTERS AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO AIR BALANCE AND STORE TURNOVER.
22. PER 2015 INTERNATIONAL MECHANICAL CODE WHEN REQUIRED, EACH SINGLE SYSTEM PROVIDING HEATING OR COOLING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE AIR MOVING EQUIPMENT DEVICES WHICH WILL DETECT PRODUCTS OF COMBUSTION OTHER THAN HEAT, AND WHICH COMPLY WITH THE I.B.C., SHALL BE LABELED BY AN APPROVED AGENCY FOR AIR DUCT INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH DEVICES SHALL BE COMPATIBLE WITH THE OPERATING VELOCITIES, PRESSURES, TEMPERATURES AND HUMIDITIES OF THE SYSTEM WHERE FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING, SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS.

AIR DEVICE SCHEDULE

MARK	FACE SIZE	TYPE	MOUNTING TYPE	MAXIMUM N.C.	DIRECTION	MANUF.	MODEL	NOTES
CD	24x24	SUPPLY	LAY–IN/ SURFACE	30	4–WAY	TITUS	PAS	1,2,3,4
CR	24x24	RETURN	LAY–IN	30	1–WAY	TITUS	PAR	1,2,3

NOTES: (NOT ALL MAY APPLY)

1. PROVIDE NECESSARY MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED.
2. ALL AIR DEVICES SHALL HAVE MANUFACTURER APPLIED STANDARD WHITE FINISH UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL DRAWINGS FOR RCP COORDINATION.
3. AIR DEVICE SHALL BE OF STEEL CONSTRUCTION.
4. AIR DEVICE SHALL BE INSTALLED COMPLETE WITH MANUFACTURER AVAILABLE MOLDED INSULATION BACKING. FIELD FABRICATED INSULATION BACKING IS NOT ALLOWED UNLESS FIRST APPROVED BY THE OWNER'S CONSTRUCTION MANAGER.

AIR BALANCE SCHEDULE

MARK	BUILDING		
	S/A	O/A	E/A
RTU–1	1900	300	–
RTU–2	1900	300	–
RTU–3	3800	760	–
RTU–4	3800	760	–
EF–1,2,3,4,5,6	–	–	1100
	–	–	–
–	–	–	–
TOTAL	11,400	2,120	1,100

NET BUILDING PRESSURIZATION (O/A) – (E/A) = +1020 CFM

FAN SCHEDULE

MARK	SERVICE	CFM	E.S.P. "WG	RPM	WATTS	VOLTS/ PH	MANUFACTURER	MODEL	TYPE	WEIGHT	NOTES
EF–1	1ST FLOOR W RESTROOM	300	0.5	1350	135	115/1	GREENHECK	SP–A390	CEILING CABINET FAN	24	1,2,3,5
EF–2	1ST FLOOR M RESTROOM	300	0.5	1350	135	115/1	GREENHECK	SP–A390	CEILING CABINET FAN	24	1,2,3,5
EF–3	2ND FLOOR W RESTROOM	150	0.5	1050	128	115/1	GREENHECK	SP–B150	CEILING CABINET FAN	10	1,2,3,5
EF–4	2ND FLOOR M RESTROOM	150	0.5	1050	128	115/1	GREENHECK	SP–B150	CEILING CABINET FAN	10	1,2,3,5
EF–5	1ST FLOOR BREAK ROOM	100	0.25	1100	98	115/1	LOREN COOK	GC 144	CEILING CABINET FAN	15	1,2,3,4
EF–6	2ND FLOOR BREAK ROOM	100	0.25	1100	98	115/1	LOREN COOK	GC 144	CEILING CABINET FAN	15	1,2,3,4

NOTES: (NOT ALL MAY APPLY)

1. PROVIDE INDEPENDENT WEATHER PROOF DISCONNECT SWITCH IN SIGHT OF THE EQUIPMENT. COORDINATE THE REQUIRED WORK WITH THE ELECTRICAL CONTRACTOR.
2. PROVIDE GRAVITY BACKDRAFT DAMPER.
3. FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
4. POWER THROUGH DEDICATED WALL SWITCH
5. INTERLOCK WITH LIGHT SWITCH

ELECTRIC HEATER SCHEDULE

MARK	TYPE	AREA SERVED	HEATING CAPACITY	ELECTRICAL VOLT / PH	MANUFACTURER	MODEL	NOTES
UH–1	UNIT/CABINET	MECH ROOM	5.0 kW	208 / 1	QMARK	MUH 0581	1,3,4

NOTES: (NOT ALL MAY APPLY)

1. PROVIDE WITH NON–FUSED DISCONNECT, REMOTE THERMOSTAT (SET AT 40° F), AND UNIVERSAL MOUNTING BRACKET.
2. COORDINATE POWER AND DISCONNECT REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
3. HEATER SHALL BE MOUNTED FROM WALL, COORDINATE FINAL MOUNTING LOCATION WITH ARCHITECTURE.
4. INSTALL HEATER PER MANUFACTURER'S RECOMMENDATIONS.
5. INSTALL COMPLETE WITH MANUFACTURER AVAILABLE #CDF–SE MOUNTING ENCLOSURE FOR SURFACE MOUNTED INSTALLATION.
6. INCLUDE MANUFACTURER AVAILABLE #T–200 REMOTE WALL MOUNTED THERMOSTAT WITH #TCI CLEAR LOCKING COVER.

O/A VENTILATION SCHEDULE

AREA SERVED	VENTILATION (OCCUPANCY)			VENTILATION (AREA)		
	# OF PEOPLE	CFM/PERSON	CFM	SQUARE FEET	CFM/SF	CFM
OFFICE	13	5	65	1037	0.06	63
RESTROOMS	–	–	–	824	–	–
STORAGE	–	–	–	691	0.12	83
LOBBY/PREFUNCTION	30	7.5	225	2535	0.06	153
MEETING	236	5	1180	4692	0.06	282
SUBTOTALS			1470			581
		TOTAL O/A REQUIRED		2051 CFM		

NOTES:

1. CALCULATIONS ARE BASED ON ASHRAE 62.1.
2. OUTDOOR AIR DEMAND IS: – 2051 CFM
   OUTDOOR AIR PROVIDED IS: + 2120 CFM

   OUTDOOR AIR DIFFERENCE IS: + 69 CFM

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02/24/2021

MECHANICAL SCHEDULES

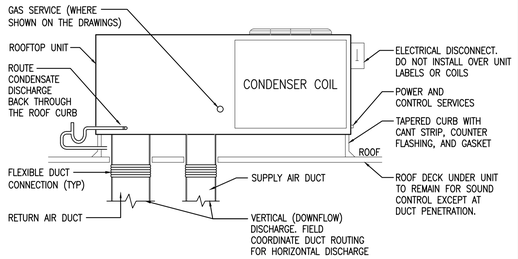
MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

BY	DESCRIPTION	DATE
	ISSUE FOR PERMIT	02/24/2021

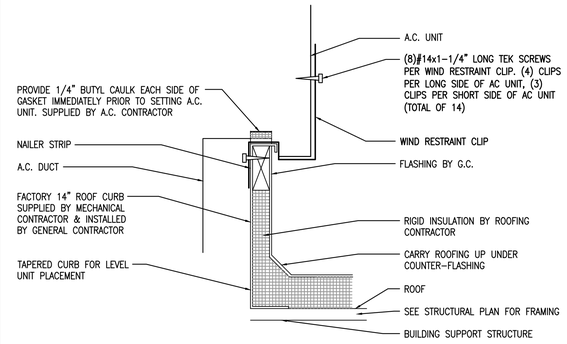
SCALE:
AS NOTED

PROJECT NO.
083-01

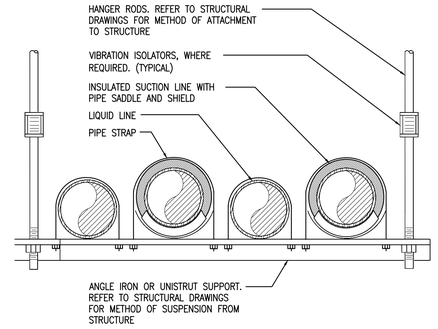
SHEET NO.
M2.1



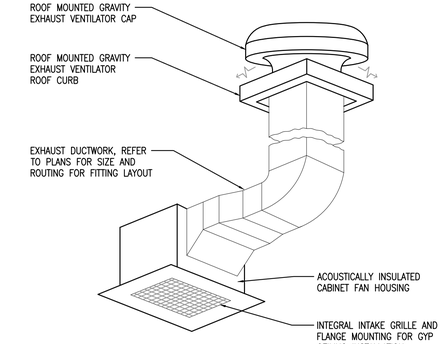
ROOFTOP UNIT DETAIL | 1
SCALE: NONE



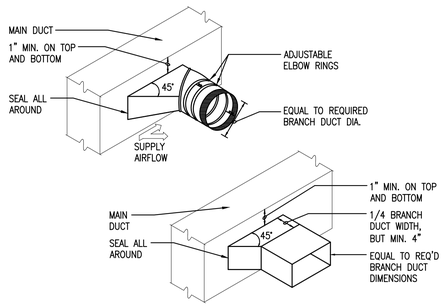
PACKAGED ROOFTOP UNIT CURB BASE DETAIL | 2
SCALE: NONE



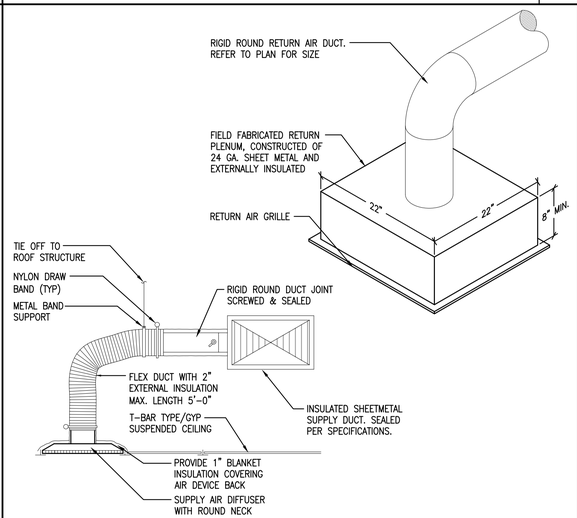
HORIZONTAL REFRIGERANT PIPE SUPPORT DETAIL | 3
SCALE: NONE



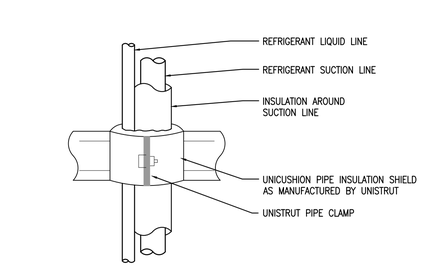
CEILING MOUNTED CABINET FAN DETAIL | 4
SCALE: NONE



BRANCH TAKE-OFF FITTING DETAIL | 5
SCALE: NONE



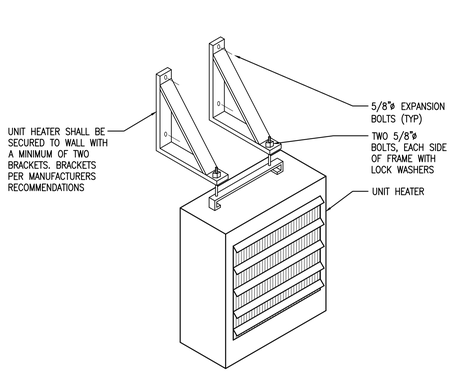
CEILING MOUNTED AIR DEVICE DETAIL | 6
SCALE: NONE



NOTES:

1. LIQUID AND SUCTION LINES MAY BE ROUTED TOGETHER FOR CONVENIENCE, BUT MUST BE COMPLETELY INSULATED FROM EACH OTHER. DO NOT SOLDER LIQUID AND SUCTION LINES TOGETHER. DO NOT ALLOW METAL TO METAL CONTACT.
2. LINES SHOULD BE INSTALLED WITH AS FEW BENDS AS POSSIBLE, ALLOWING SERVICE ACCESS TO THE INDOOR COIL.
3. USE LONG RADIUS ELBOWS WHEREVER POSSIBLE, EXCEPT IN OIL RETURN TRAPS, WHERE SHORT RADIUS ELBOWS SHOULD BE USED.
4. REFER TO MANUFACTURER'S GUIDELINES FOR THE COMPLETE INSTALLATION.

VERTICAL REFRIGERANT PIPE SUPPORT DETAIL | 7
SCALE: NONE



UNIT HEATER DETAIL | 8
SCALE: NONE

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02/24/2021

MECHANICAL DETAILS

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DATE	DESCRIPTION	BY
02/24/2021	ISSUE FOR PERMIT	

SCALE:
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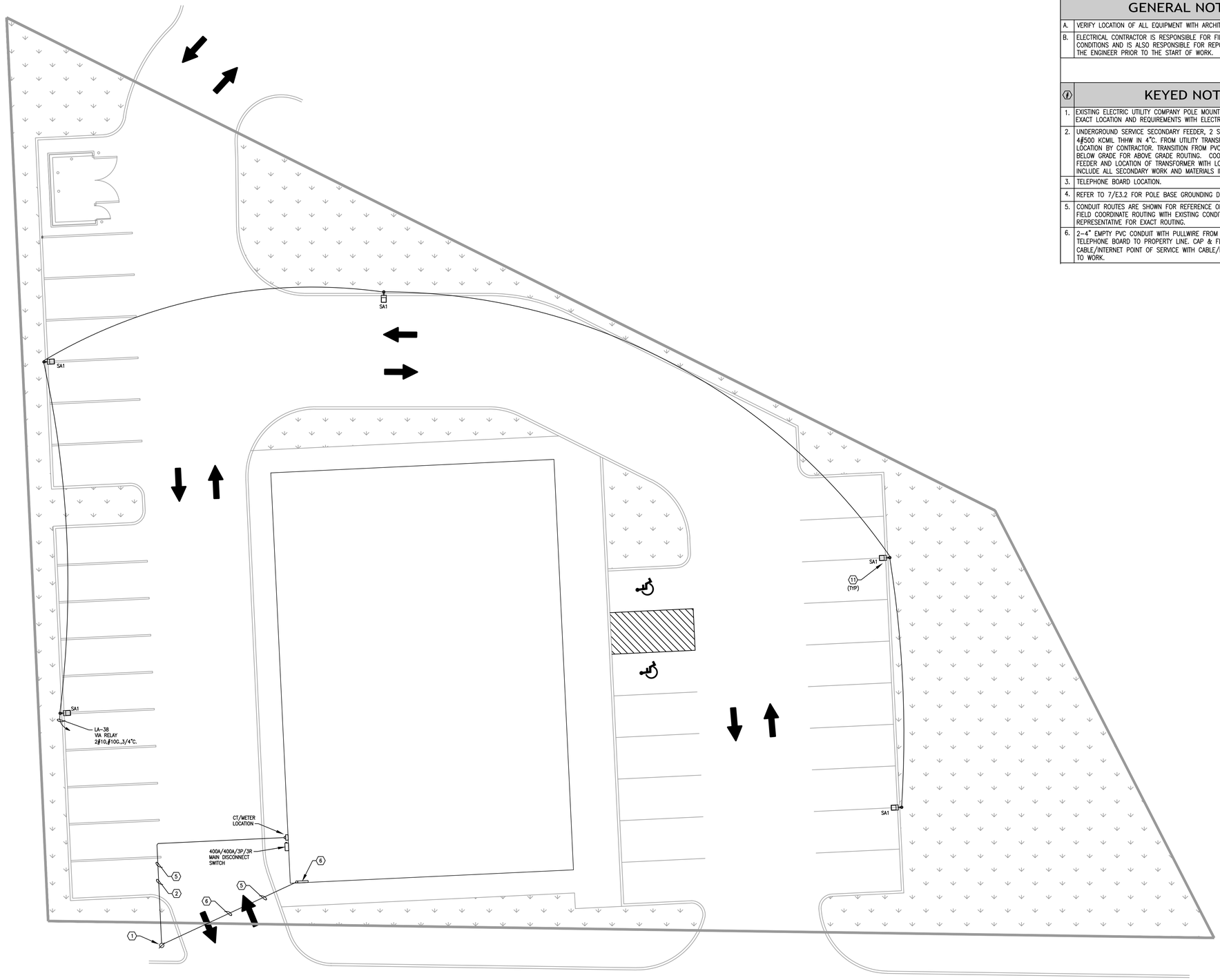
PROJECT NO.
083-01

SHEET NO.
M3.1



GENERAL NOTES

A.	VERIFY LOCATION OF ALL EQUIPMENT WITH ARCHITECT AND OTHER TRADES.
B.	ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FILED VERIFICATION OF ALL CONDITIONS AND IS ALSO RESPONSIBLE FOR REPORTING AND CONFLICTS TO THE ENGINEER PRIOR TO THE START OF WORK.

KEYED NOTES

1.	EXISTING ELECTRIC UTILITY COMPANY POLE MOUNTED TRANSFORMER. VERIFY EXACT LOCATION AND REQUIREMENTS WITH ELECTRIC COMPANY.
2.	UNDERGROUND SERVICE SECONDARY FEEDER, 2 SETS OF 4#500 KCMIL THHW IN 4"C. FROM UTILITY TRANSFORMER TO C.T./METER LOCATION BY CONTRACTOR. TRANSITION FROM PVC TO RGS CONDUIT AT ELBOW BELOW GRADE FOR ABOVE GRADE ROUTING. COORDINATE EXACT LENGTH OF FEEDER AND LOCATION OF TRANSFORMER WITH LOCAL UTILITY COMPANY AND INCLUDE ALL SECONDARY WORK AND MATERIALS IN BID.
3.	TELEPHONE BOARD LOCATION.
4.	REFER TO 7/E3.2 FOR POLE BASE GROUNDING DETAIL.
5.	CONDUIT ROUTES ARE SHOWN FOR REFERENCE ONLY, CONTRACTOR SHALL FIELD COORDINATE ROUTING WITH EXISTING CONDITIONS AND UTILITY COMPANY REPRESENTATIVE FOR EXACT ROUTING.
6.	2-4" EMPTY PVC CONDUIT WITH PULLWIRE FROM STUB UP LOCATION NEAR TELEPHONE BOARD TO PROPERTY LINE. CAP & FLAG. VERIFY LOCATION OF CABLE/INTERNET POINT OF SERVICE WITH CABLE/INTERNET PROVIDER PRIOR TO WORK.

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02/24/2021

ELECTRICAL SITE PLAN

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SCALE:
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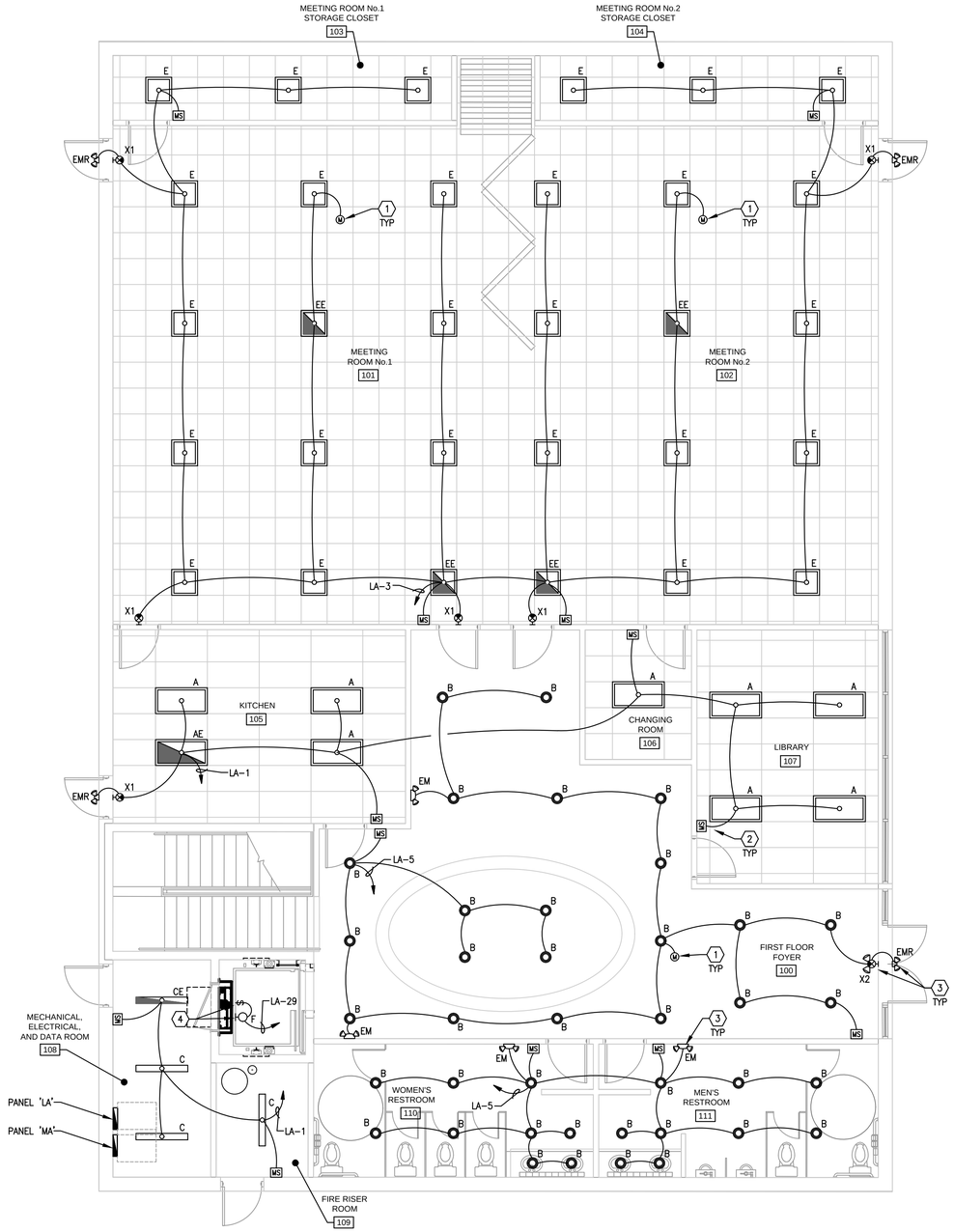
SHEET NO.
E0.1

ELECTRICAL SITE PLAN
3/32"=1'-0"

1



GENERAL NOTES

A.	REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT FIXTURE LOCATIONS.
B.	REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SPECIFICATIONS.
C.	FINAL ARRANGEMENT OF EACH FIXTURE (AIMING) SHALL BE PROVIDED TO THE OWNER REPRESENTATIVE AFTER THE FIXTURE IS INSTALLED.
D.	UNLESS NOTED OTHERWISE ON THE PLAN ALL ELECTRICAL LIGHT FIXTURE HEIGHTS SHALL BE COORDINATE WITH THE ARCHITECTURAL RCP.
E.	ALL WORK SHOWN SHALL COMPLY WITH ALL NATIONAL, STATE, AND LOCAL CODE ORDINANCES, ETC.
F.	ALL EMERGENCY LIGHTING AND EXIT SIGNAGE SHALL BE CONNECTED AHEAD OF ALL SWITCHING FOR CONTINUOUS OPERATION.
G.	PLENUM RATED CABLE TO BE USED WHERE REQUIRED WITHIN PLENUM RATED SPACES ABOVE CEILING.
H.	ALL WIRING SHALL BE IN CONDUIT, EMT OR RIGID. FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS FROM OUTLET BOXES TO LIGHT FIXTURES, MOTORS, APPLIANCES, ETC. MAXIMUM LENGTH 6 FEET. NO MC, BX, ROMEX, ARMORED CABLE, ETC. ALLOWED. CONDUIT SHALL BE RUN PARALLEL AND PERPENDICULAR TO STRUCTURE.

KEYED NOTES

1	PROVIDE CEILING MOUNTED OCCUPANCY SENSORS, EQUAL TO LUTRON #LRF2-OCR2B-P-WH
2	PROVIDE WALL MOUNTED MOTION SENSOR. SENSOR SHALL BE WATT STOPPER #WI-300-W.
3	EXIT, EMERGENCY, EMERGENCY EGRESS LIGHTING AND NIGHT LIGHTING (NL) SHALL BE CIRCUITED TO NEAREST LIGHTING CIRCUIT AHEAD OFF ALL SWITCHING.
4.	LIGHT FIXTURE AND SWITCH LOCATED WITHIN ELEVATOR PIT SHALL BE LOCATED AS DIRECTED BY ELEVATOR MANUFACTURER.

ELECTRICAL LIGHTING PLAN - 1ST FLOOR
3/16"=1'-0"

1

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02/24/2021

ELECTRICAL LIGHTING PLAN - FIRST FLOOR

MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

DATE	DESCRIPTION	BY
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SCALE:
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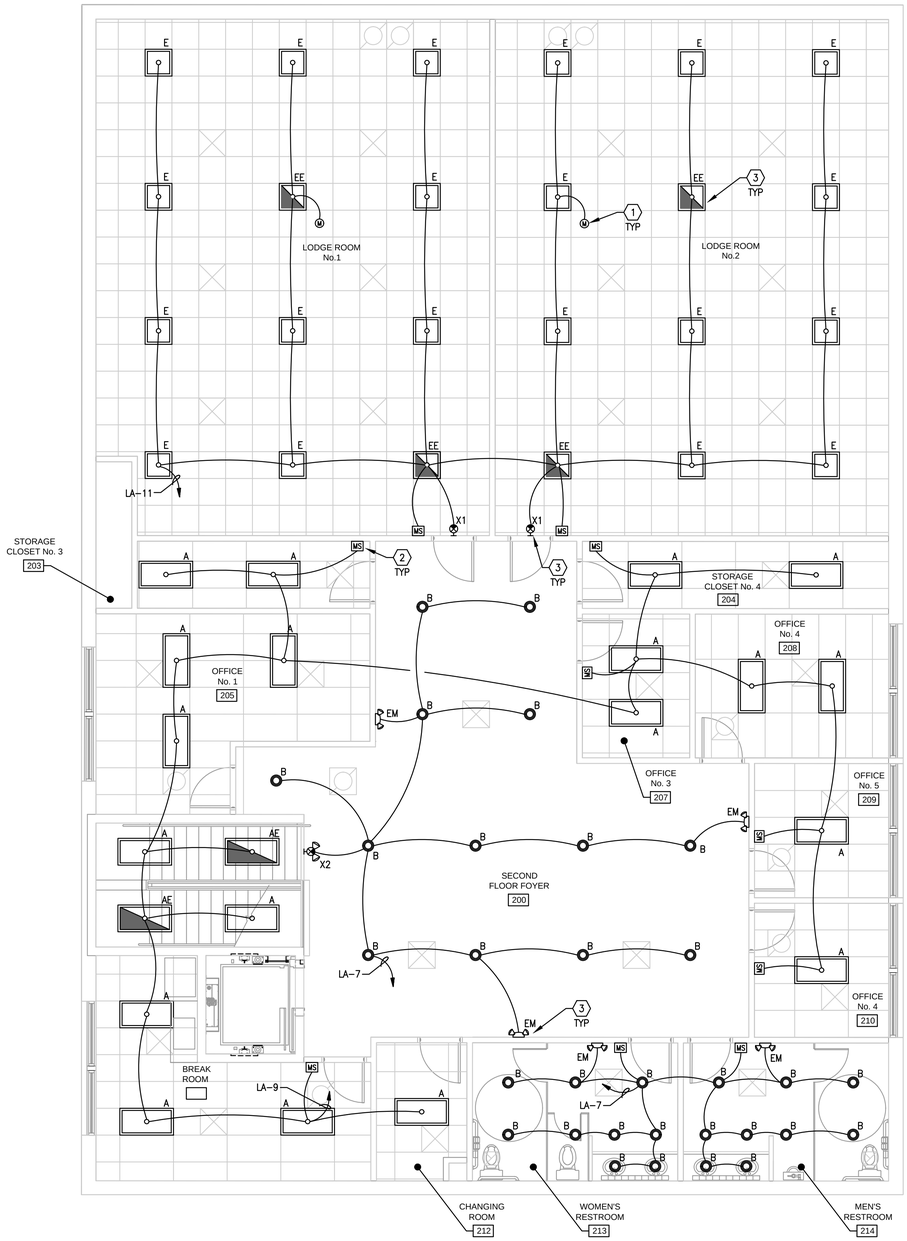
083-01

SHEET NO.
E1.1



ELECTRICAL LIGHTING PLAN - 2ND FLOOR
3/16"=1'-0"

1

GENERAL NOTES

A.	REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT FIXTURE LOCATIONS.
B.	REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SPECIFICATIONS.
C.	FINAL ARRANGEMENT OF EACH FIXTURE (AIMING) SHALL BE PROVIDED TO THE OWNER REPRESENTATIVE AFTER THE FIXTURE IS INSTALLED.
D.	UNLESS NOTED OTHERWISE ON THE PLAN ALL ELECTRICAL LIGHT FIXTURE HEIGHTS SHALL BE COORDINATE WITH THE ARCHITECTURAL RCP.
E.	ALL WORK SHOWN SHALL COMPLY WITH ALL NATIONAL, STATE, AND LOCAL CODE ORDINANCES, ETC.
F.	ALL EMERGENCY LIGHTING AND EXIT SIGNAGE SHALL BE CONNECTED AHEAD OF ALL SWITCHING FOR CONTINUOUS OPERATION.
G.	PLENUM RATED CABLE TO BE USED WHERE REQUIRED WITHIN PLENUM RATED SPACES ABOVE CEILING.
H.	ALL WIRING SHALL BE IN CONDUIT, EMT OR RIGID. FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS FROM OUTLET BOXES TO LIGHT FIXTURES, MOTORS, APPLIANCES, ETC. MAXIMUM LENGTH 6 FEET. NO MC, BX, ROMEX, ARMORED CABLE, ETC. ALLOWED. CONDUIT SHALL BE RUN PARALLEL AND PERPENDICULAR TO STRUCTURE.

KEYED NOTES

ⓘ	
1	PROVIDE CEILING MOUNTED OCCUPANCY SENSORS, EQUAL TO LUTRON #LRF2-OCR2B-P-WH
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ELECTRICAL LIGHTING PLAN - SECOND FLOOR

MASONIC TEMPLE
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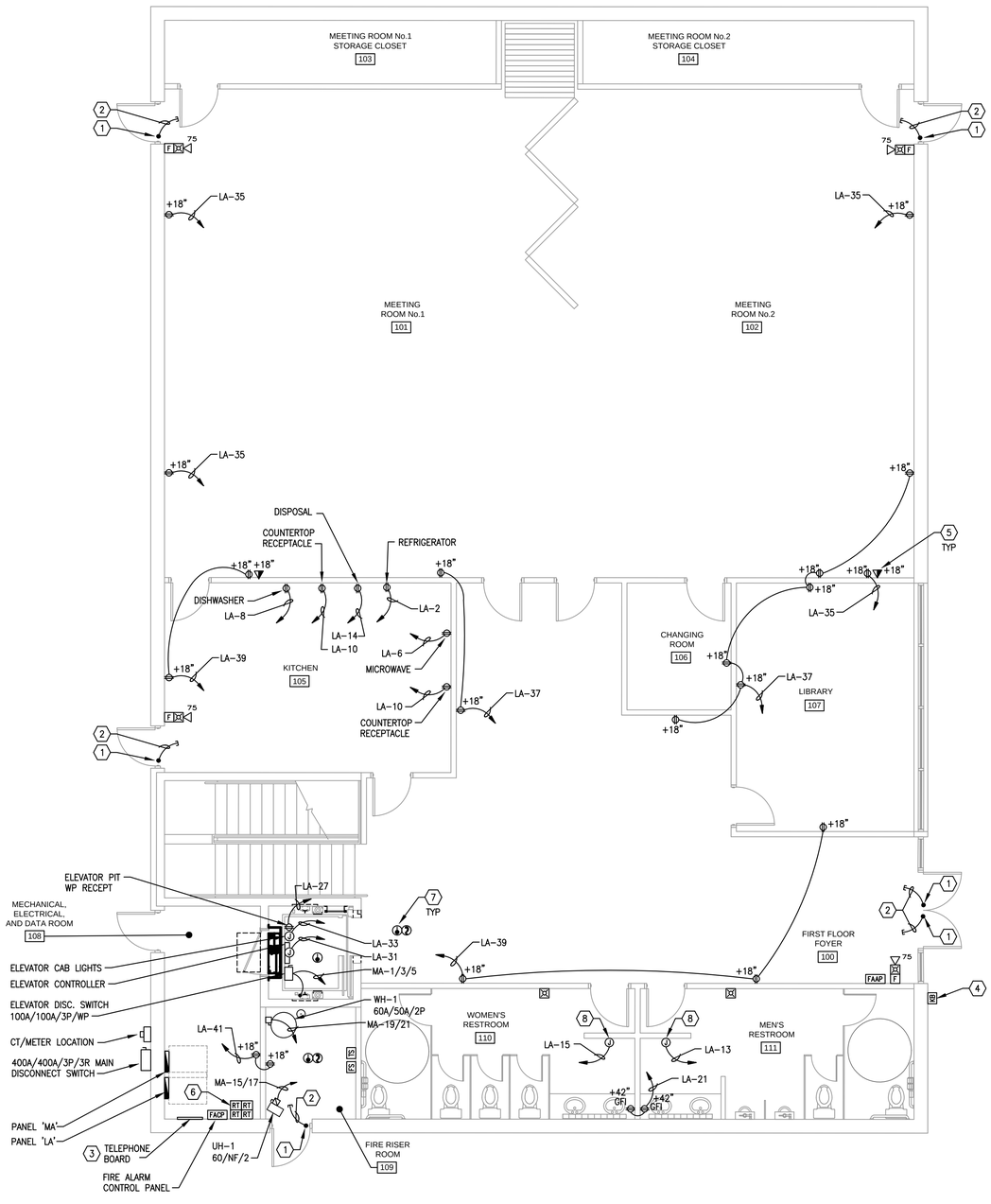
SHEET NO.
E1.2



GENERAL NOTES

#	
A.	ALL CONDUIT ON THIS SHEET FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
B.	COORDINATE MOUNTING HEIGHT OF THERMOSTATS AND HVAC SENSORS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN
C.	ALL EMPTY CONDUIT TO HAVE NYLON PULLSTRINGS INSTALLED.
D.	ALL WIRING INSIDE BUILDING SHALL BE IN METALLIC RACEWAY, EXCEPT IN BUILDING FLOOR SLAB WHERE SCH 40 PVC MAY BE USED WIRING ON EXTERIOR OF BUILDING, WHERE UNDERGROUND, MAY BE SCHEDULE 40 PVC. PROVIDE MC CABLE WHEN ALLOWED BY CODE.
E.	DUPLEX AND DOUBLE DUPLEX RECEPTACLES FOR P.O.S. SYSTEM (ISOLATED GROUND RECEPTACLES) SHALL NOT SHARE CONDUIT WITH ANY "NORMAL POWER" DEVICES. ISOLATED GROUND RECEPTACLES SHALL BE "ORANGE" IN COLOR.
F.	ALL CONDUCTORS SHALL BE COPPER, "THHN/THWN" INSULATED. COLOR CODE ALL CONDUCTORS.
G.	SEPARATE CODE-SIZE GROUND CONDUCTORS (GREEN-INSULATED) SHALL BE PULLED IN ALL CONDUIT RUNS. METALLIC CONDUITS SHALL NOT SERVE AS GROUND.
H.	ALL CONDUIT SHALL BE CONCEALED, UNLESS LOCATED IN ELECTRICAL OR MECHANICAL ROOMS, UNLESS SPECIFICALLY APPROVED BY ARCH.
I.	ALL WORK SHOWN SHALL COMPLY WITH ALL NATIONAL, STATE, AND LOCAL CODE ORDINANCES, ETC.
J.	CONDUIT SHALL BE PROPERLY SUPPORTED USING CLAMPS. TIE WIRES WILL NOT BE APPROVED.
K.	THE USE OF 3" HIGH BOXES WILL NOT BE PERMITTED. USE MINIMUM 4" SQUARE BOXES. PROVIDE SQUARE BOXES. PROVIDE SQUARE "PLASTER RINGS" WHERE ONLY ONE DEVICE IS ILLUSTRATED.
L.	ALL LOW VOLTAGE FINAL CONNECTIONS BY E.C.S. (MECHANICAL CONTRACTOR), BUT ALL CONDUIT FOR LOW VOLTAGE WIRING IS PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
M.	FIRE ALARM SYSTEM (PULL STATION, HORN AND STROBE). ELECTRICAL CONTRACTOR SHALL ROUTE SIGNAL CABLES BACK TO BUILDING FIRE ALARM CONTROL AND INSTALLED AS REQUIRED BY LOCAL CODE. ELECTRICAL CONTRACTOR SHALL VERIFY LOCATION, REQUIREMENTS WITH FIRE MARSHALL AND OWNER PRIOR TO BID AND ROUGH-IN.
N.	REFER TO SP SHEETS FOR ELECTRICAL SPECIFICATIONS.
O.	PROVIDE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL PER 2014 NEC ARTICLE 210-8 (B). ALL 125-VOLT, 5 AND 20 AMPHERE, SINGLE PHASE RECEPTACLES INSTALLED IN BATHROOMS, KITCHENS, ROOFTOPS, OUTDOORS, WITHIN 6' OF OUTSIDE EDGE OF SINKS AND INDOOR WET LOCATIONS. REFER TO PANEL SCHEDULES FOR BREAKERS NOTED AS GFI TO PROVIDE AS PROTECTION, IF ADDITIONAL GFI BREAKERS ARE REQUIRED.
P.	AT COMPLETION OF ALL ELECTRICAL WORK AND AFTER FULL POWER HAS BEEN ENERGIZED, A FINAL INSPECTION OF ELECTRICAL WORK WILL BE MADE TO SEE THAT ALL WORK COMPLIES WITH THESE PLANS AND SPECIFICATIONS.
Q.	ALL LOW VOLTAGE WIRING BY OTHERS SHALL BE PULLED/INSTALLED BY CONTRACTOR.
R.	ALL RECEPTACLES ABOVE SINK COUNTER TOPS ARE TO BE G.F.I. TYPE.
S.	THE CONDUIT SYSTEM EQUIPMENT GROUND WIRE SHALL BE GREEN. THE ISOLATED GROUND WIRE MUST BE GREEN BUT OF A DISTINCTLY DIFFERENT SHADE FROM THE EQUIPMENT GROUND WIRE, OR GREEN WITH A STRIPE. COLOR CODE SHALL BE CONSISTENT FROM PANEL TO ALL RECEPTACLES. AT TIME OF INSPECTION, INSPECTOR, CONTRACTOR SHALL REMOVE RECEPTACLES FROM BOXES TO VERIFY COLOR CODE AND CONNECTION OF GROUND WIRES.
T.	ALL WIRING SHALL BE IN CONDUIT, EMT OR RIGID. FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS FROM OUTLET BOXES TO LIGHT FIXTURES, MOTORS, APPLIANCES, ETC. MAXIMUM LENGTH 6 FEET. NO MC, BX, ROMEX, ARMORED CABLE, ETC. ALLOWED. CONDUIT SHALL BE RUN PARALLEL AND PERPENDICULAR TO STRUCTURE.

KEYED NOTES

#	
1	PROVIDE STUB CONDUIT DOWN TO TOP OF DOOR 8" FROM STRIKE SIDE OF THE DOOR AS DIRECTED BY SECURITY SYSTEM CONTRACTOR FOR CONNECTION TO SECURITY SENSOR CONTACTS.
2	PROVIDE 3/4" CONDUIT ONLY FOR SECURITY SYSTEM WIRES. STUB INTO ACCESSIBLE CEILING SPACE FOR ROUTING TO SECURITY PANEL.
3	PHONE BOARD LOCATION. E.C. TO TERMINATE ALL CAT-5 CABLE AT PHONE BOARD.
4	PROVIDE 4400 SERIES KNOX VAULT. PROVIDE KEYS WITH IDENTIFICATION TAGS FOR THE KNOX VAULT. OBTAIN ORDERING FORMS THRU LOCAL CITY OF SERVICES. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
5	COMBINATION TELEPHONE/DATA OUTLET. PROVIDE 1" CONDUIT TO NCR PATCH PANEL WITH (3) CAT. 5 CABLE FROM EACH POS DATA OUTLET LOCATION. PROVIDE 3/4" EMPTY CONDUIT WITH PULLWIRE FROM TELEPHONE OUTLET LOCATION TO TELEPHONE BACKBOARD.
6	REMOTE TEST SWITCH LOCATION FOR DUCT MOUNTED SMOKE DETECTORS. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
7	HEAT DETECTOR PER NFPA 72.
8	JUNCTION BOX FOR HAND DRYER. VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN.

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ELECTRICAL POWER PLAN - FIRST FLOOR

MASONIC TEMPLE
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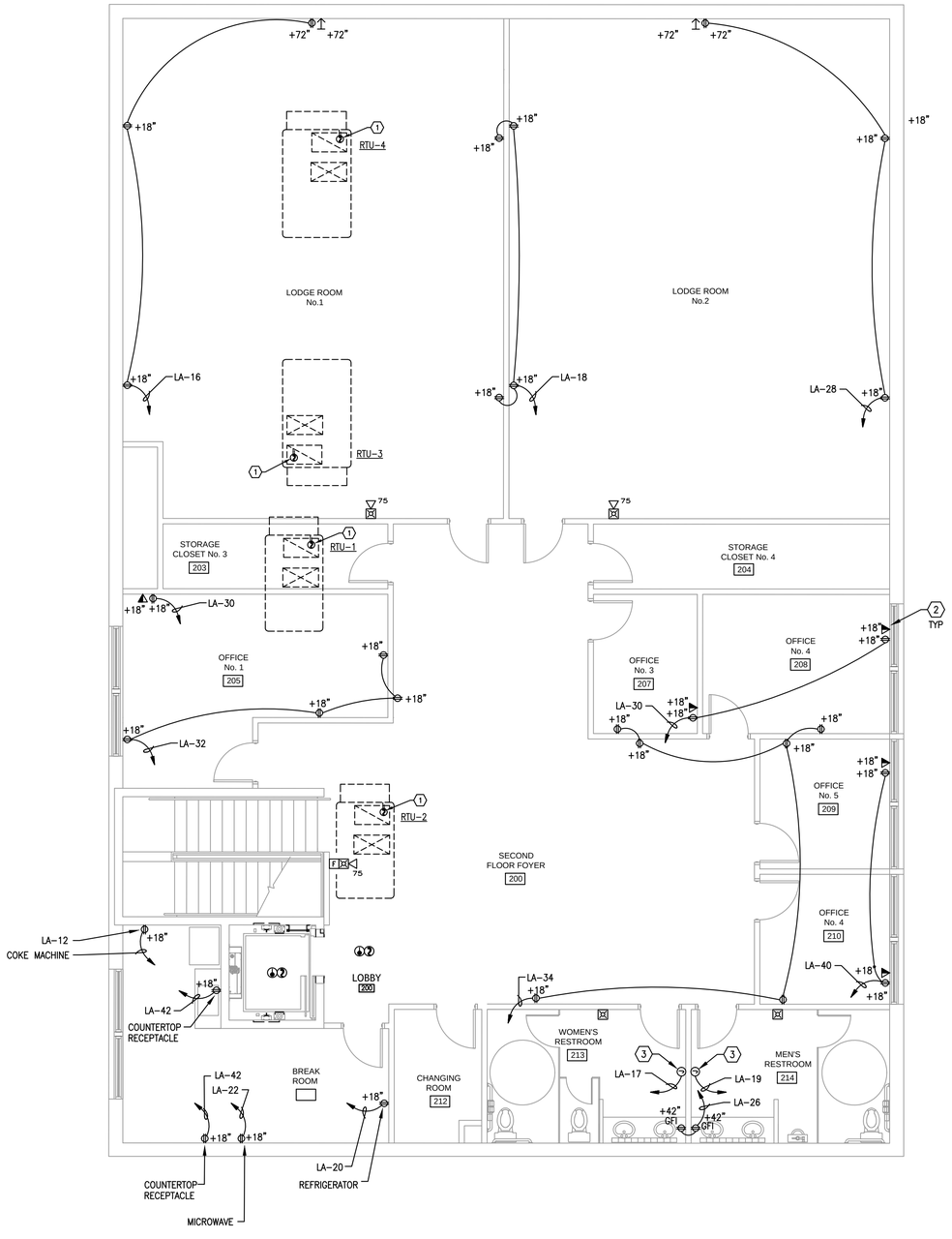
083-01

SHEET NO.
E1.3

ELECTRICAL POWER PLAN - 1ST FLOOR
3/16"=1'-0"



ELECTRICAL POWER PLAN - 2ND FLOOR
1/4"=1'-0"

1

GENERAL NOTES

#	
A.	ALL CONDUIT ON THIS SHEET FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
B.	COORDINATE MOUNTING HEIGHT OF THERMOSTATS AND HVAC SENSORS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN
C.	ALL EMPTY CONDUIT TO HAVE NYLON PULLSTRINGS INSTALLED.
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KEYED NOTES

#	
1	PROVIDE DUCT MOUNTED SMOKE DETECTOR MOUNTED WITHIN ROOFTOP UNIT. HVAC CONTRACTOR TO WIRE SHUTDOWN RELAY FROM DETECTOR TO RTU.
2	COMBINATION TELEPHONE/DATA OUTLET. PROVIDE 1" CONDUIT TO NCR PATCH PANEL WITH (3) CAT. 5 CABLE FROM EACH POS DATA OUTLET LOCATION. PROVIDE 3/4" EMPTY CONDUIT WITH PULLWIRE FROM TELEPHONE OUTLET LOCATION TO TELEPHONE BACKBOARD.
3	JUNCTION BOX FOR HAND DRYER. VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN.

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ELECTRICAL POWER PLAN - SECOND FLOOR

MASONIC TEMPLE
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ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	2 X 4 LED FIXTURE
	2 X 4 LED FIXTURE WITH BATTERY BACKUP
	1 X 4 LED FIXTURE
	1 X 4 LED FIXTURE WITH BATTERY BACKUP
	4' LED STRIP FIXTURE
	4' LED STRIP FIXTURE WITH BATTERY BACKUP
	SURFACE MOUNTED TRACK AND TRACK HEAD
	PENDANT MOUNTED LIGHT FIXTURE
	RECESSED DOWNLIGHT FIXTURE
	RECESSED WALLWASH LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	HOOD LIGHT
	CEILING MOUNTED EXIT SIGN, SHADE INDICATES FACE
	WALL/CEILING MOUNTED EMERGENCY BUGEYE FIXTURE
	COMBINATION EXIT SIGN/EMERGENCY BUGEYE
	EMERGENCY REMOTE HEAD LIGHT FIXTURE
	JUNCTION BOX
	WALL MOUNTED DUPLEX RECEPTACLE
	FLOOR MOUNTED DUPLEX RECEPTACLE
	WALL MOUNTED SINGLE RECEPTACLE
	FLOOR MOUNTED SINGLE RECEPTACLE
	SPECIAL RECEPTACLE
	WALL MOUNTED QUADRUPLEX RECEPTACLE
$	SINGLE POLE SWITCH
$	THREE POLE LIGHT SWITCH
$	PILOT LIGHT SWITCH
$	SINGLE THROW THERMAL SWITCH
$	MOTOR RATED SWITCH
MS	MOTION SENSOR
	BUZZER
	BELL
	PUSHBUTTON (MOMENTARY)
	MOTOR
	TELEPHONE BACKBOARD
	TELEPHONE OUTLET
	FLOOR MOUNTED TELEPHONE OUTLET
	POS CONNECTION
	FLOOR MOUNTED POS CONNECTION
	COMBINATION DATA AND PHONE JACK
	FLOOR MOUNTED COMBINATION DATA AND PHONE JACK
	DISCONNECT SWITCH
P	PAGER OUTLET
S	SECURITY JUNCTION BOX
	TELEVISION JACK (PROVIDE 3/4" CONDUIT WITH PULL WIRE)
K	KEYED SWITCH
	PANELBOARD
T	TRANSFORMER
LT	LOW VOLTAGE DOORBELL TRANSFORMER
	SWITCHED CIRCUITRY BURIED OR IN SLAB
	CIRCUITRY IN WALL OR CEILING
	HOMERUN BACK TO PANEL
	POINT OF CONNECTION
IG	ISOLATED GROUND
WP	WEATHERPROOF
GFI	GROUND FAULT CIRCUIT INTERRUPTER
MCT	MOTOR CONTROL TERMINAL
PTR	PRIOR TO ROUGH-IN
IFS	INTEGRATED FACILITY STRUCTURE (SWITCHGEAR)
IPC	INTEGRATED POWER CENTER (SWITCHGEAR)
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
F	FIRE ALARM PULL STATION
	FIRE ALARM HORN/STROBE DEVICE
	FIRE ALARM STROBE DEVICE
	FIRE ALARM SMOKE DETECTOR
	FIRE ALARM HEAT DETECTOR
	FIRE ALARM DUCT SMOKE DETECTOR
RT	REMOTE TEST SWITCH
TS	TAMPER SWITCH
FS	FLOW SWITCH
S	CEILING MOUNTED SPEAKER

NOTE: NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.

LIGHTING FIXTURE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	LAMPS	REMARKS
A		2X4 RECESSED LAY-IN LED TROFFER LITHONIA #2TL4 60L-EZ1	47W LED	RECESSED GRID TROFFER WI TH #12" CLEAR PRISMATIC ACRYLIC LENS
AE		2X4 RECESSED LAY-IN LED TROFFER LITHONIA #2TL4 60L-EZ1-EL14L	47W LED	RECESSED GRID TROFFER WITH #12 ACRYLIC LENS, 90 MINUTE EMERGENCY BATTERY BACK-UP
B		5", RECESSED LED, CLEAR ALZAK CONE WITH WHITE TRIM JUNO LIGHTING GROUP #IC20LED-WD-G4N-06LM-30K-90CRI-120-FRPC/204-CWH	10W LED	
C		4'-0" L.E.D. STRIP TEXAS FLUORESCENT FIXTURE: C48LF35W4900LDMV30K	57W LED	
CE		4'-0" L.E.D. STRIP WITH BATTERY BACKUP TEXAS FLUORESCENT FIXTURE: C48LF35W4900LDMV30K	57W LED	90 MINUTE EMERGENCY BATTERY BACK-UP
E		LED HIGH BAY FIXTURE LITHONIA #TBD	47W LED	
EE		LED HIGH BAY FIXTURE WITH BATTERY BACKUP LITHONIA #TBD	47W LED	90 MINUTE EMERGENCY BATTERY BACK-UP
F		LED FIXTURE MOUNTED IN ELEVATOR PIT LITHONIA #TBD	10W LED	
EM		EMERGENCY WALL MOUNTED BUG-EYE WITH 90 MIN. BATTERY PACK. CHLORIDE #VU6R	PROVIDED WITH FIXTURE	120V, WHITE COLOR
X1		EMERGENCY EXIT SIGN WITH EMERGENCY LIGHTS. UNIVERSAL MOUNT 90 MIN. BATTERY PACK. CHLORIDE #ER46L-1-W-R	PROVIDED WITH FIXTURE	120V, RED LETTER, WHITE FACE EXIT SIGN
EMR		REMOTE HEAD, EXTERIOR WALL MOUNTED EMERGENCY LIGHT WITH 90 MIN. BATTERY PACK. CHLORIDE #VRHP	PROVIDED WITH FIXTURE	120V.
SA1		POLE MOUNTED LED AREA LIGHT FIXT. (1) LSI LIGHTING XAM3/3/LED/119/350/UE/BRZ 30' POLE(1) LSI LIGHTING 5RPB5/SO7G/30/D190/BRZ	(1)119W LED	SINGLE HEAD POLE MOUNTED LED AREA LIGHT MOUNTED ON 30' BRONZE POLE

1. ALL LIGHT FIXTURES ARE TO BE PROVIDED BY CONTRACTOR.
2. CONTRACTOR SHALL INSTALL ALL LAMPS.
3. CONTRACTOR SHALL INSTALL ALL NECESSARY MOUNTING HARDWARE, TRIM RINGS, ETC. FOR THE TYPE OF CEILING SPECIFIED. COORDINATE WITH THE ARCHITECTURAL ROOM FINISH SCHEDULE.
4. CONTRACTOR SHALL INSTALL ALL NECESSARY MOUNTING HARDWARE, FITTINGS, CONNECTORS, PENDENT FEEDS, END CAPS, ETC. TO PROVIDE A COMPLETE LIGHT TRACK SYSTEM.
5. CONTRACTOR SHALL INSTALL ALL NECESSARY LOW VOLTAGE DIMMABLE TRANSFORMERS, CONNECTORS, MOUNTING CLAMPS, ETC.
6. VERIFY THICKNESS OF CEILINGS SYSTEMS AND PROVIDE EXTENSION AS REQUIRED FOR ALL DOWN LIGHTS.
7. MANUFACTURER SHALL LABEL FIXTURE BASE WITH MAXIMUM WATTAGE SHOWN ON THIS LIGHT FIXTURE SCHEDULE.
8. JUNCTION BOX HEIGHT FOR OPEN CEILING FIXTURES TO BE 12' ABOVE FINISHED FLOOR.
9. CONTRACTOR TO PROVIDE ARCHITECT WITH LIGHTING CUT SHEETS FOR APPROVAL PRIOR TO ORDERING ANY LIGHTS.

ALLOWED CONDUIT LOCATIONS

CONDUIT INSTALLATION LOCATION	ALLOWABLE CONDUIT TYPE
BELOW GRADE OUTSIDE OF SLAB PERIMETER	RIGID STEEL CONDUIT OR NONMETALLIC CONDUIT (SCHEDULE 40 OR SCHEDULE 80 PVC)
BELOW GRADE GOING THRU GRADE BEAM	RIGID STEEL CONDUIT OR NONMETALLIC CONDUIT (SCHEDULE 40 OR SCHEDULE 80 PVC) WITH SLEEVE
IN OR UNDER SLAB ON GRADE	RIGID STEEL CONDUIT OR NONMETALLIC CONDUIT (SCHEDULE 40 OR SCHEDULE 80 PVC)
OUTDOOR LOCATIONS, ABOVE GRADE	RIGID STEEL CONDUIT
IN SLAB ABOVE GRADE	RIGID STEEL CONDUIT OR NONMETALLIC CONDUIT (SCHEDULE 40 OR SCHEDULE 80 PVC)
WET AND DAMP LOCATIONS	RIGID STEEL CONDUIT OR NONMETALLIC CONDUIT (SCHEDULE 40 OR SCHEDULE 80 PVC)
DRY LOCATIONS	RIGID STEEL CONDUIT AND ELECTRICAL METALLIC TUBING
ABOVE CEILING BETWEEN LIGHT FIXTURES	FLEXIBLE METAL CONDUIT (8'-0" LENGTHS MAXIMUM)

FAULT CURRENT CALCULATION - 208V

SERVICE VOLTAGE 120/ 208
SERVICE FAULT CURRENT [ ] AMPERES OR UTILITY TRANSFORME 300 KVA

I = kVA x 1000 / E L-L X 1.732 =
KVA = 300
E = 360.26
TRANS. FLA = 833

Isca = TRANS. FLA x 100 / TRANSFORMER Z =
83274
2.5 %

Isca = AMPERE SHORT-CIRCUIT CURRENT RMS SYMMETRICAL. Isca = 33,310 AMPERES
DESIGN POINT: A

MAIN SWITCH LET-THRU
FUSE SIZE= 400
FUSE TYPE= LPN-RK_SP

FAULT AT PRIMARY SIDE OF FUSE= 11,000

LET THRU OF FUSE= 5000

DESIGN POINT: B

FAULT AT:		MA	LA
LENGTH (DISTANCE)	L=	230	4
AVAILABLE SHORT CIRCUIT	Isca=	11000	7889
NO. CONDUCTORS PER PHASE	N=	2	1
PHASE CONDUCTOR		500	1
PHASE CONDUCTOR CONSTAN`	C=	26706	7293
VOLT - LINE TO LINE	EL-L=	208	208
F FACTOR=1.732xLxI / NxCxE L-L	F=	0.394	0.036
MUTILPLIER = 1 / 1+F	M=	0.717	0.965
Isca x M = FAULT CURRENT AT =		7889	7614
DESIGN POINT:		C	D

PANEL: MA
BUS: 400A TIN PLATED COPPER
MAIN SIZE AND TYPE: 400A MLO
VOLTAGE: 120/ 208 V, 3PH, 4W.+GRND.
MOUNTING: SURFACE
NEMA 1 ENCLOSURE
FAULT CURRENT AT PANEL= 7888.6
PANEL S.C. RATING: 22 K AIC
AIC RATED: FULLY

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	ELEVATOR	9384	200/3	3#3/0, #6G-2"C.	A	3#8, #10G-3/4"C.	40/3	3120	RTU-1	2
3	---	9384	-	---	B	---	HACR	3120	---	4
5	---	9384	-	---	C	---	---	3120	---	6
7	SHUNT TRIP		ST	---	A	3#8, #10G-3/4"C.	40/3	3120	RTU-2	8
9	PANEL 'LA'	7953	100/3	4#1, #8G-1-1/2"C.	B	---	HACR	3120	---	10
11	---	7919	-	---	C	---	---	3120	---	12
13	---	7366	-	---	A	3#4, #10G-3/4"C.	60/3	5760	RTU-3	14
15	UNIT HEATER	2500	40/2	2#8, #10OG-3/4"C.	B	---	HACR	5760	---	16
17	---	2500	-	---	C	---	---	5760	---	18
19	WATER HEATER (WH-1)	4000	50/2	2#6, #10OG-3/4"C.	A	3#4, #10G-3/4"C.	60/3	5760	RTU-3	20
21	---	4000	-	---	B	---	HACR	5760	---	22
23	SPACE		-	---	C	---	---	5760	---	24
25	SPACE		-	---	A	2#12, #12G-3/4"C.	20/1	1200	BUILDING SIGNAGE	26
27	SPACE		-	---	B	---	20/1		SPARE	28
29	SPACE		-	---	C	2#12, #12G-3/4"C.	20/1	1200	BUILDING SIGNAGE	30
31	SPACE		-	---	A	---	20/1		SPARE	32
33	SPACE		-	---	B	---	20/1		SPARE	34
35	SPACE		-	---	C	---	20/1		SPARE	36
37	SPACE		-	---	A	---	20/1		SPARE	38
39	SPACE		-	---	B	---	20/1		SPARE	40
41	SPACE		-	---	C	---	20/1		SPARE	42

NOTES:
1 PROVIDE BOLT ON BREAKERS

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1-LIGHTING	#REF!	1.25	#REF!	PHASE A	39710
2-RECEPTACLES	10380	NEC	10190	PHASE B	41597
3-HEATING- (1 PHASE)	5000	0.65	3250	PHASE C	38763
4-HEATING - (3 PHASE)	0	1	0	LOWEST PHASE PLUS 10%	
5-HVAC - (1 PHASE)	0	1	0	38763 + 10%	42639.3
6-HVAC - (3 PHASE)	53280	1	53280	PHASES ARE BALANCED	
7-WATER HEATING - (1 PHASE)	8000	1	8000		
8-WATER HEATING - (3 PHASE)	0	1	0		
9-KITCHEN - (1 PHASE)	400	0.65	260		
10-KITCHEN - (3 PHASE)	0	0.65	0		
11-REFRIGERATION - (1 PHASE)	0	0.65	0		
12-REFRIGERATION - (3 PHASE)	0	0.65	0		
13-NON-CONT - (1 PHASE)	28152	1	28152		
14-NON-CONT - (3 PHASE)	0	1	0		
LARGEST MOTOR 5 HP	0	0.25	0		
TOTAL VA	#REF!		#REF!		
TOTAL AMPS	#REF!		#REF!		

ABBREVIATIONS:
GFI GROUND FAULT INTERRUPTER
ST SHUNT TRIP
AIC AMPS INTERRUPTING CAPACITY
V VOLTAGE
W WIRE
GRND GROUND
C CONDUIT

PANEL: LA
BUS: 100A TIN PLATED COPPER
MAIN SIZE AND TYPE: 100A MLO
VOLTAGE: 120/ 208 V, 3PH, 4W.+GRND.
MOUNTING: SURFACE
NEMA 1 ENCLOSURE
FAULT CURRENT AT PANEL= 7888.6
PANEL S.C. RATING: 10 K AIC
AIC RATED: SERIES

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	FIRST FLOOR LIGHTING	658	20/1	2#12, #12G-3/4"C.	A	2#12, #12G-3/4"C.	20/1 GFI	400	REFRIGERATOR	2
3	FIRST FLOOR LIGHTING	1500	20/1	2#12, #12G-3/4"C.	B	2#12, #12G-3/4"C.	20/1 GFI	400	MICROWAVE	4
5	FIRST FLOOR LIGHTING	430	20/1	2#12, #12G-3/4"C.	C	---	20/1		SPARE	6
7	SECOND FLOOR LIGHTING	597	20/1	2#12, #12G-3/4"C.	A	2#12, #12G-3/4"C.	20/1 GFI	600	DISHWASHER	8
9	SECOND FLOOR LIGHTING	799	20/1	2#12, #12G-3/4"C.	B	2#12, #12G-3/4"C.	20/1 GFI	360	COUNTER RECEPTACLE	10
11	SECOND FLOOR LIGHTING	376	20/1	2#12, #12G-3/4"C.	C	2#12, #12G-3/4"C.	20/1 GFI	1400	COKE MACHINE	12
13	HAND DRYER	1200	20/1 GFI	2#12, #12G-3/4"C.	A	2#12, #12G-3/4"C.	20/1 GFI	600	DISPOSAL	14
15	HAND DRYER	1200	20/1 GFI	2#12, #12G-3/4"C.	B	2#12, #12G-3/4"C.	20/1	540	SECOND FLOOR RECEPTS	16
17	HAND DRYER	1200	20/1 GFI	2#12, #12G-3/4"C.	C	2#12, #12G-3/4"C.	20/1	900	SECOND FLOOR RECEPTS	18
19	HAND DRYER	1200	20/1 GFI	2#12, #12G-3/4"C.	A	2#12, #12G-3/4"C.	20/1 GFI	400	REFRIGERATOR	20
21	RESTROOM RECEPTACLES	360	20/1	2#12, #12G-3/4"C.	B	2#12, #12G-3/4"C.	20/1 GFI	400	MICROWAVE	22
23	FIRE ALARM CONTROL PANEL	600	20/1	2#12, #12G-3/4"C.	C	2#12, #12G-3/4"C.	20/1	100	TIMECLOCK AND PHOTOCELL	24
25	TELEPHONE BOARD	600	20/1	2#12, #12G-3/4"C.	A	2#12, #12G-3/4"C.	20/1	360	RESTROOM RECEPTS	26
27	ELEVATOR PIT RECEPTACLE	180	20/1 GFI	2#12, #12G-3/4"C.	B	2#12, #12G-3/4"C.	20/1	540	SECOND FLOOR RECEPTS	28
29	ELEVATOR PIT LIGHT	200	20/1	2#12, #12G-3/4"C.	C	2#12, #12G-3/4"C.	20/1	540	SECOND FLOOR RECEPTS	30
31	ELEVATOR CONTROLLER	200	20/1	2#12, #12G-3/4"C.	A	2#12, #12G-3/4"C.	20/1	540	SECOND FLOOR RECEPTS	32
33	ELEVATOR CAB LIGHTS	200	20/1	2#12, #12G-3/4"C.	B	2#12, #12G-3/4"C.	20/1	540	SECOND FLOOR RECEPTS	34
35	FIRST FLOOR RECEPTACLES	360	20/1	2#12, #12G-3/4"C.	C	2#12, #12G-3/4"C.	20/1	360	RTU MAINTENANCE RECEPTS	36
37	FIRST FLOOR RECEPTACLES	360	20/1	2#12, #12G-3/4"C.	A	2#10, #10G-3/4"C.	20/1	238	SITE LIGHTING	38
39	FIRST FLOOR RECEPTACLES	360	20/1	2#12, #12G-3/4"C.	B	2#12, #12G-3/4"C.	20/1	540	SECOND FLOOR RECEPTS	40
41	FIRST FLOOR RECEPTACLES	540	20/1	2#12, #12G-3/4"C.	C	2#12, #12G-3/4"C.	20/1 GFI	360	COUNTER RECEPTACLE	42

NOTES:
1 PROVIDE BOLT ON BREAKERS

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1-LIGHTING	6158	1.25	7698	PHASE A	7953
2-RECEPTACLES	10380	NEC	10190	PHASE B	7919
3-HEATING- (1 PHASE)	0	0.65	0	PHASE C	7366
4-HEATING - (3 PHASE)	0	1	0	LOWEST PHASE PLUS 10%	
5-HVAC - (1 PHASE)	0	1	0	7366 + 10%	8102.6
6-HVAC - (3 PHASE)	0	1	0	PHASES ARE BALANCED	
7-WATER HEATING - (1 PHASE)	0	1	0		
8-WATER HEATING - (3 PHASE)	0	1	0		
9-KITCHEN - (1 PHASE)	400	0.65	260		
10-KITCHEN - (3 PHASE)	0	0.65	0		
11-REFRIGERATION - (1 PHASE)	0	0.65	0		
12-REFRIGERATION - (3 PHASE)	0	0.65	0		
13-NON-CONT - (1 PHASE)	6300	1	6300		
14-NON-CONT - (3 PHASE)	0	1	0		
LARGEST MOTOR 5 HP	0	0.25	0		
TOTAL VA	23238		24448		
TOTAL AMPS	64.5		67.9		

ABBREVIATIONS:
GFI GROUND FAULT INTERRUPTER
ST SHUNT TRIP
AIC AMPS INTERRUPTING CAPACITY
V VOLTAGE
W WIRE
GRND GROUND
C CONDUIT

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DAVID DAY 13111 PROFESSIONAL ENGINEER STATE OF LOUISIANA 02/24/2021

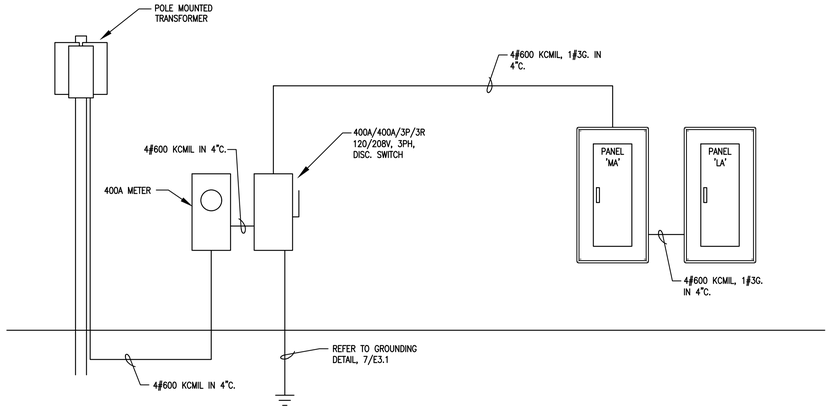
ELECTRICAL SCHEDULES
MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

DATE	DESCRIPTION	BY
02/24/2021	ISSUE FOR PERMIT	

SCALE: AS NOTED

PROJECT NO. 083-01

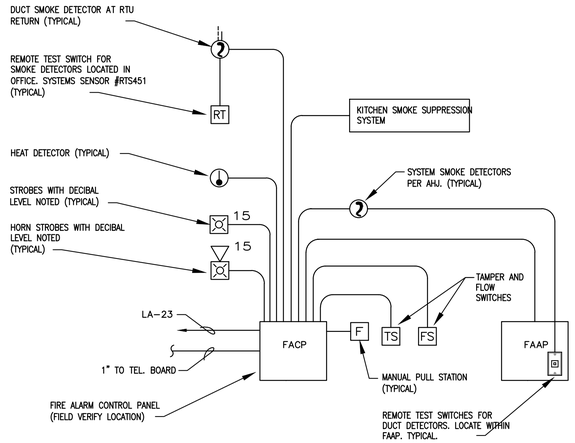
SHEET NO. E2.1



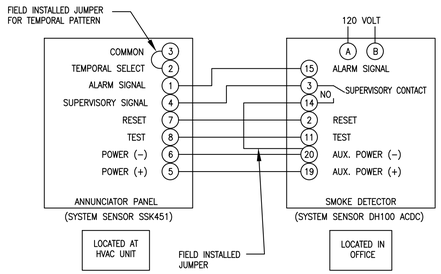
ELECTRICAL ONE-LINE RISER DIAGRAM 1
SCALE: NONE

FIRE ALARM SCHEMATIC GENERAL NOTES

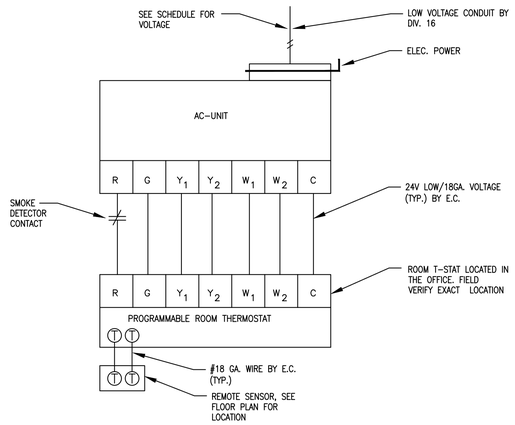
A.	HVAC DUCT MOUNTED SMOKE DETECTORS SHALL BE PROVIDED BY OTHERS.
B.	FIRE ALARM CONTRACTOR SHALL BE CURRENTLY LICENSED WITH THE STATE AND SUBMIT A COMPLETE FIRE ALARM SUBMITTAL (PLANS, SPECS., CUT SHEETS ETC.) PREPARED BY THE STATE REGISTERED FIRE PROTECTION CONTRACTOR, AND SUBMITTED TO AUTHORITY HAVING JURISDICTION FOR APPROVAL. INFORMATION SHALL NOT BE LIMITED TO THE FOLLOWING. –SEQUENCE OF OPERATION –CATALOG CUT SHEETS –POINT TO POINT DIAGRAM –HORN,STROBE LIGHTS –MANUAL PULL STATION LAYOUT –CANDELA OF STROBES –BATTERY CALCULATIONS INCLUDING TOTAL STANDBY –ALARM CURRENT.
C.	CONTRACTOR SHALL PROVIDE ADDITIONAL FIRE ALARM DEVICES PER AHJ AND INCLUDE ALL EXPENSES IN BID TO COMPLETE AN OPERABLE FIRE ALARM SYSTEM AS REQUIRED BY AUTHORITY HAVING JURISDICTION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
D.	PROVIDE THE NUMBER OF ACTIVE AND SPARE ADDRESSES AS REQUIRED TO THE FIRE ALARM PANEL TO ACCOMMODATE ALL DEVICES
E.	PROVIDE DEDICATED TELEPHONE LINE FOR 24–HOUR MONITORING SYSTEM PER CITY REQUIREMENT.
F.	CONTRACTOR SHALL FURNISH/INSTALL FIRE ALARM DEVICES, SYSTEM COMPONENTS, WIRING/CONDUITS AND CONTROLS AS REQUIRED AND COMPLETE THE FIRE ALARM SYSTEM PER NFPA 72 AND AUTHORITY HAVING JURISDICTION "AHJ". FIRE ALARM DEVICES SHALL BE MONITORED FROM AN APPROVED CENTRAL STATION PER AHJ.
G.	PROVIDE ALL APPURTENANCES AS REQUIRED TO INTERFACE WITH KITCHEN SMOKE SUPPRESSION SYSTEM.
H	FIRE ALARM SYSTEM (PULL STATION, HORN AND STROBE). ELECTRICAL CONTRACTOR SHALL ROUTE SIGNAL CABLES BACK TO BUILDING FIRE ALARM CONTROL PANEL AND INSTALL AS REQUIRED BY LOCAL CODE. ELECTRICAL CONTRACTOR SHALL VERIFY LOCATION, REQUIREMENTS WITH FIRE MARSHALL AND OWNER PRIOR TO BID AND ROUGH–IN.



FIRE ALARM RISER DIAGRAM AND ELEVATION 2
SCALE: NONE



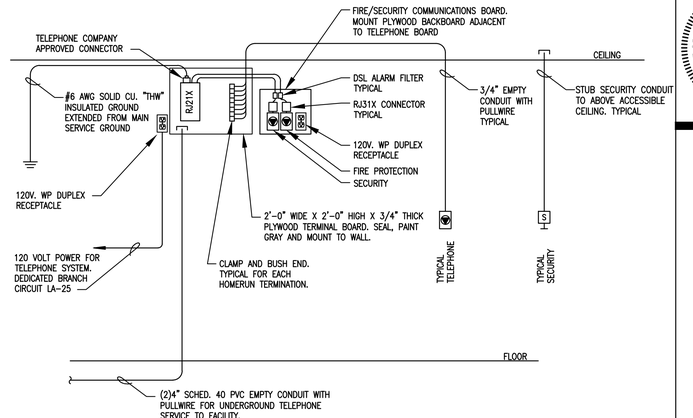
SMOKE DETECTOR WIRING DIAGRAM 3
SCALE: NONE



THERMOSTAT WIRING DIAGRAM 4
SCALE: NONE

TELEPHONE SYSTEM RISER DIAGRAM NOTES

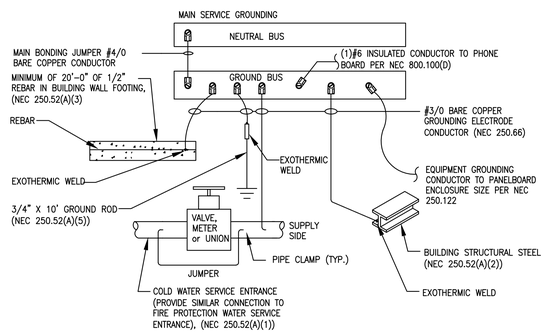
A.	VERIFY, COORDINATE AND INCORPORATE THE REQUIREMENTS OF THE TELE. CO. AND ALL GOVERNING CODES IN FORCE, PRIOR TO COMMENCEMENT OF WORK.
B.	FURNISH AND INSTALL A RACEWAY SYSTEM OF CABLE AND 3/4" CONDUIT AND PROPERLY SIZED JUNCTION BOXES WITH COVERPLATES FOR THE TELEPHONE SYSTEM AS SHOWN ON THE DRAWINGS AND IN THE DIAGRAM.
C.	ALL CONDUIT SHALL ORIGINATE AT THE JUNCTION BOXES, BE NO SMALLER THAN 3/4" ELECTRICAL TRADE SIZE, BE CONTINUOUS AND TERMINATE AT THE SYSTEM TERMINAL BOARD NEATLY CLAMPED AND WITH BUSHED ENDS. HOME RUNS SHALL BE LIMITED TO ONE (1) TELEPHONE OUTLET IN ONE 3/4" CONDUIT.
D.	THERE ARE MULTIPLE DEDICATED TELEPHONE LINES AND THEY SHALL BE SEGREGATED FROM EACH OTHER AND SHALL BE SEGREGATED FROM THE STANDARD TELEPHONE LINES.
E.	FURNISH AND INSTALL A 200 LB'Z TEST NYLON PULL LINE IN ANY EMPTY CONDUIT. TAG EACH END OF PULL LINE AS TO SERVICE AND THE LOCATION OF THE OPPOSITE TERMINUS OF THE CONDUIT.
F.	ALL CONDUITS SHALL CONTAIN ONE (1) HIGH QUALITY 4 PAIR CAT III PLENUM CABLE TELEPHONE LINES PULLED WITH PROPER INSTALLED JACKS. LINES MUST BE LABELED AT TELEPHONE BOARD.



TELEPHONE SYSTEM RISER DIAGRAM 5
SCALE: NONE

NOT USED 6
SCALE: NONE

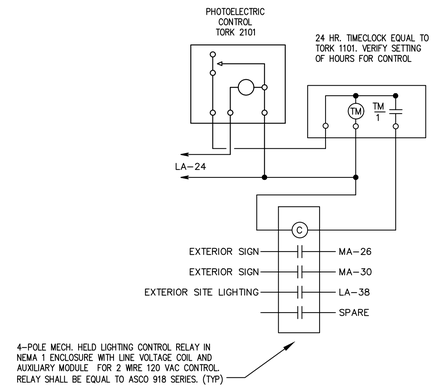
NOT USED 7
SCALE: NONE



NOTES:

1. ALL GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
2. ALL GROUNDING ELECTRODE CONDUCTORS SHALL BE COPPER #3/0 UNLESS NOTED OTHERWISE.
3. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL GROUNDING REQUIREMENTS.

GROUNDING OF MAIN SERVICE ENTRANCE 8
SCALE: NONE



EXTERIOR LIGHTING CONTROL DIAGRAM 9
SCALE: NONE

DRAWN BY:
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02/24/2021

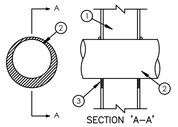
ELECTRICAL DETAILS
MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

DATE	DESCRIPTION	BY
02/24/2021	ISSUE FOR PERMIT	

SCALE:
AS NOTED

PROJECT NO.
083-01

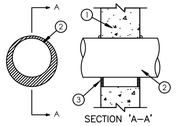
SHEET NO.
E3.1



NOTES:

1. RATED GYPSUM WALLBOARD ASSEMBLY.
2. MAX. 4" EMT OR 1" FLEXIBLE METALLIC CONDUIT. THE ANNULUS SPACE WITHIN THE FIRESTOP SYSTEM SHALL RANGE FROM POINT OF CONTACT TO 1-3/4" MAX.
3. SPECSEAL SERIES 100 SEALANT INSTALLED WITHIN ANNULUS TO 5/8" DEPTH. AT POINT CONTACT, INSTALL A 3/8" BEAD AT PENETRANT/GYPSUM WALLBOARD INTERFACE.

TYPICAL 1-HOUR PENETRATION

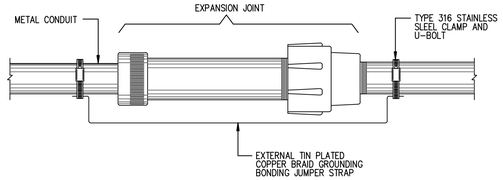


NOTES:

1. CONCRETE OR CONCRETE BLOCK WALL.
2. MAX. 4" EMT OR 1" FLEXIBLE METALLIC CONDUIT. THE ANNULUS SPACE WITHIN THE FIRESTOP SYSTEM SHALL RANGE FROM POINT OF CONTACT TO 1-3/4" MAX.
3. SPECSEAL SERIES 100 SEALANT INSTALLED WITHIN ANNULUS TO 5/8" DEPTH. AT POINT CONTACT, INSTALL A 3/8" BEAD AT PENETRANT/GYPSUM WALLBOARD INTERFACE.

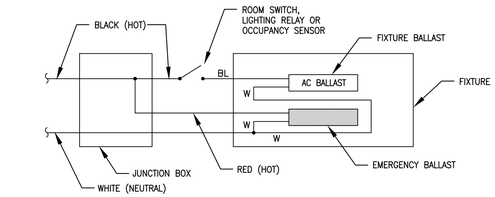
TYPICAL 2-HOUR PENETRATION

FIRE RATED WALL PENETRATION DETAIL — SCALE: NONE — 1

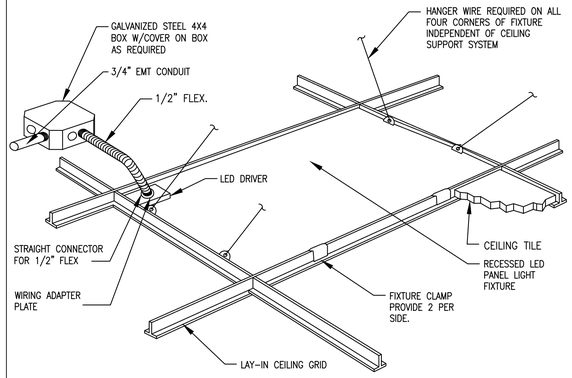


NOTE:
PROVIDE FLEXIBLE EXPANSION JOINTS FOR CONDUIT AT LOCATIONS CROSSING THE BUILDING EXPANSION JOINT.

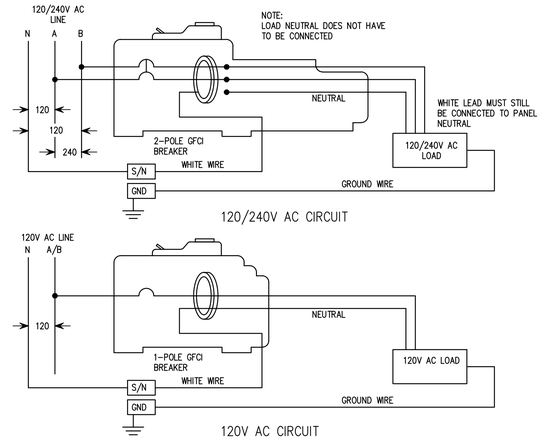
EXPANSION JOINT DETAIL — SCALE: NONE — 2



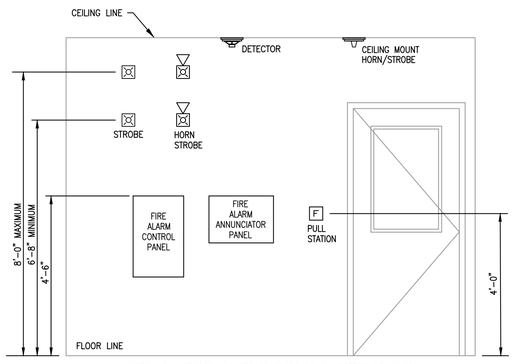
EMERGENCY LIGHTING WIRING DIAGRAM — SCALE: NONE — 3



TYPICAL LAY-IN LED PANEL FIXTURE MOUNTING DETAIL — SCALE: NONE — 4

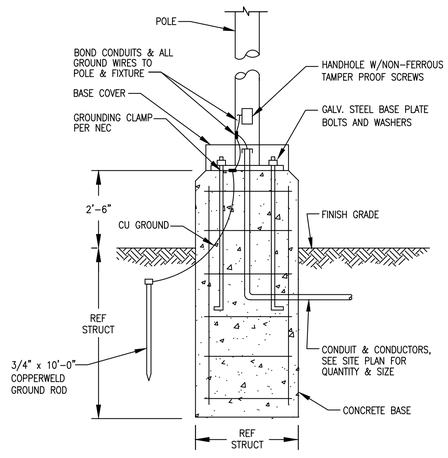


120V-1 POLE AND 208V-2-POLE GFCI BREAKER WIRING DIAGRAM — SCALE: NONE — 5

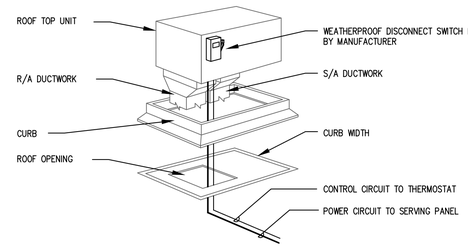


NOTE: HORN STROBE AND STROBE TO BE 80" TO BOTTOM OF LENSE.

FIRE ALARM MOUNTING HEIGHT DETAIL — SCALE: NONE — 6



POLE BASE GROUNDING DETAIL — SCALE: NONE — 7



NOTE:
ALL WIRING BY ELECTRICAL CONTRACTOR.

ROOF TOP UNIT WIRING DIAGRAM — SCALE: NONE — 8

NOT USED — SCALE: NONE — 9

NOT USED — SCALE: NONE — 10

NOT USED — SCALE: NONE — 11

NOT USED — SCALE: NONE — 12

DRAWN BY:

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02/24/2021

ELECTRICAL DETAILS

MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

DATE	DESCRIPTION	BY
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PROJECT NO.
083-01

SHEET NO.
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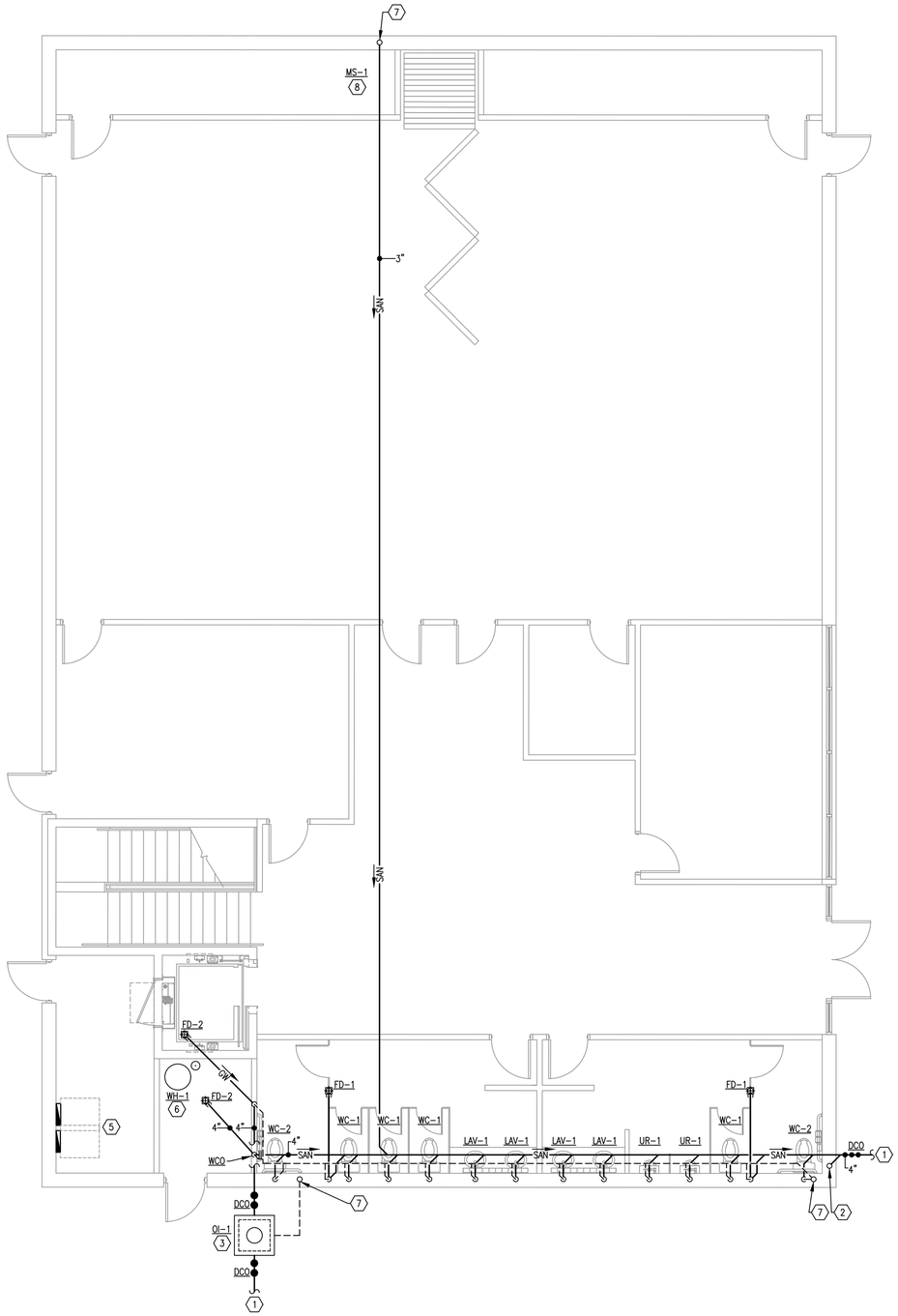

PLUMBING DWV PLAN - 1ST FLOOR
3/16"=1'-0"

1

GENERAL NOTES

A.	PLUMBING CONTRACTOR SHALL PROVIDE MANUFACTURER'S OPERATION LITERATURE FOR ALL INSTALLED EQUIPMENT AND FIXTURES PRIOR TO THE DATE OF STORE TURNOVER.
B.	ALL EXPOSED PIPING IN PUBLIC AREAS SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO THE WARM SIDE OF THE EXPOSED ROOF STRUCTURE.
C.	THE INSTALLATION OF THE PLUMBING SYSTEMS SHALL BE COORDINATED WITH ALL ELECTRICAL & MECHANICAL EQUIPMENT, STRUCTURAL SLAB & FRAMING. NOTIFY THE OWNER'S REPRESENTATIVE IF ANY REMEDIATION WORK IS REQUIRED WHERE ANY OF THE EXISTING PLUMBING SYSTEMS OR EQUIPMENT IF FOUND TO BE INOPERABLE.
D.	REFER TO PLUMBING SHEET P2.1 FOR PLUMBING FIXTURE AND EQUIPMENT SCHEDULES INCLUDING SPECIFICATIONS AND ROUGH-IN SIZES.
E.	ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
F.	DURING THE PROGRESS OF THE WORK, MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE IN THE PLUMBING SYSTEMS. THE RECORD DRAWING SHALL SHOW CHANGES IN MANUFACTURER (WITH NUMBERS AND TRADE NAMES), MATERIALS, SIZES, LOCATIONS AND HOOK-UP POINTS. AS-BUILTS SHALL BE GIVEN TO OWNER'S CONSTRUCTION MANAGER AT COMPLETION OF JOB.
G.	PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL DRAIN LINES FROM EQUIPMENT. REFER TO THE ARCHITECTURAL DRAWINGS FOR PROPOSED SIZES AND ROUTING. ALL INDIRECT DRAIN LINES SHALL BE INSTALLED WITH APPROVED AIR GAPS.
H.	REFER TO ARCHITECTURAL AND MILLWORK DRAWINGS FOR DETAILS OF COUNTERTOPS, CASEWORK, AND OTHER FIXTURES, SHOWING EXACT LOCATION OF OPENINGS FOR PLUMBING ITEMS BEING INSTALLED. COORDINATE THE COMPLETE INSTALLATION WITH THE GENERAL CONTRACTOR.
I.	CONTRACTOR SHALL PROVIDE: FAUCETS, TRAPS, STOPS, BALL VALVES, BACKFLOW DEVICES FOR KITCHEN EQUIP. GASCOCKS, WATER HAMMER ARRESTORS, CLEANOUT COVERS AND INDIRECT WASTE TO AN APPROVED RECEPTOR AND ALL NECESSARY TRIM FOR A COMPLETELY CONNECTED PLUMBING SYSTEM.
J.	ALL WALL PIPING STUB-OUTS SHALL BE SECURELY TIED TO THE STRUCTURE WITH SUFFICIENT BACKING TO ELIMINATE MOVEMENT. FINAL CONNECTIONS TO KITCHEN SINKS SHALL BE HARD PIPED.
K.	PITCH ALL WASTE AND DRAIN LINES A MINIMUM OF 1/4" PER FOOT IN THE DIRECTION OF FLOW, OR AS REQUIRED BY LOCAL CODE.
L.	ALL OPENINGS IN DWV SYSTEMS RESULTING FROM INSTALLATION ROUGH-IN SHALL BE PROTECTED WITH A TEST PLUG THAT IS SECURELY LOCKED IN PLACE UNTIL FINAL FINISHED CONNECTIONS ARE INSTALLED.
M.	PLUMBING CONTRACTOR TO ARRANGE AND PAY FOR ALL REQUIRED FEES, PERMITS, AND MISCELLANEOUS COSTS ASSOCIATED WITH THE PLUMBING WORK PER LOCAL PLUMBING CODES.
N.	ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.
O.	ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE AND LOCATED AS PER CODE REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE ALL CLEAN OUT LOCATIONS WITH EQUIPMENT, MILLWORK, ETC., PRIOR TO INSTALLATION.
P.	PLUMBING CONTRACTOR SHALL MAINTAIN A REDLINED SET OF 'AS BUILT' CONSTRUCTION DRAWINGS AND PROVIDE RECORD COPIES TO THE ARCHITECT PER THEIR SUBMISSION REQUIREMENT TO IHOP CORPORATE.
Q.	THE PLUMBING CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS FOR ALL POINTS OF CONNECTION WITH THE GENERAL CONTRACTOR AND OTHER TRADES PRIOR TO START OF WORK.
R.	VERIFY EXACT LOCATIONS, DEPTH AND SIZE OF ALL PIPING TO WHICH CONNECTIONS ARE REQUIRED. COORDINATE ALL CONNECTIONS WITH SITE CONDITIONS AND SITE UTILITY CONTRACTOR/ REPRESENTATIVE.
S.	PIPING LAYOUT IS SCHEMATIC ONLY, EXACT ROUTING AND INSTALLATION OF PIPES TO BE COORDINATED WITH THE BUILDING STRUCTURE AND THE WORK OF OTHER CONTRACTORS.
T.	THE PLUMBING CONTRACTOR IS TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQUIRED FOR COORDINATION WITH WORK OF OTHER TRADES.
U.	CONTRACTOR SHALL PROVIDE: FAUCETS, TRAPS, STOPS, BALL VALVES, BACKFLOW DEVICES FOR KITCHEN EQUIP. GASCOCKS, WATER HAMMER ARRESTORS, CLEANOUT COVERS AND INDIRECT WASTE TO AN APPROVED RECEPTOR AND ALL NECESSARY TRIM FOR A COMPLETELY CONNECTED PLUMBING SYSTEM.

KEYED NOTES

1.	REFER TO CIVIL PLANS FOR CONTINUATION OF UNDERGROUND SANITARY WASTE PIPING. COORDINATE PROPOSED ROUTING WITH SITE UTILITIES, GRADING, LANDSCAPING AND CONCRETE WORK.
2.	4" SANITARY LINE DOWN FROM SECOND FLOOR. REFER TO SHEET P1.2 FOR CONTINUATION.
3.	ROUTE VENT UP WALL TO SECOND FLOOR. REFER TO P1.2 FOR CONTINUATION.
4.	FIELD COORDINATE THE LOCATION AND COMPLETE INSTALLATION FOR THE OIL INTERCEPTOR. REFER TO DETAIL 12 ON SHEET P3.1.
5.	PROPOSED ELECTRICAL PANEL LOCATION. NO PIPING SHALL BE INSTALLED ABOVE OR BELOW THE CEILING AT THIS LOCATION. COORDINATE EXACT LOCATIONS PRIOR TO CONSTRUCTION.
6.	EXTEND WATER HEATER T&P VALVE DRAIN LEADER (3/4" MIN.) AND TERMINATE INDIRECTLY AT FLOOR DRAIN. COORDINATE ROUTING IN THE FIELD.
7.	ROUTE VENT UP WALL TO SECOND FLOOR. REFER TO P1.2 FOR CONTINUATION.
8.	GENERAL CONTRACTOR TO COORDINATE WITH ARCHITECT FOR FINAL LOCATION OF MOP SINK AND ROUTING OF SANITARY AND VENT LINES PRIOR TO BID.

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PLUMBING DWV PLAN - FIRST FLOOR

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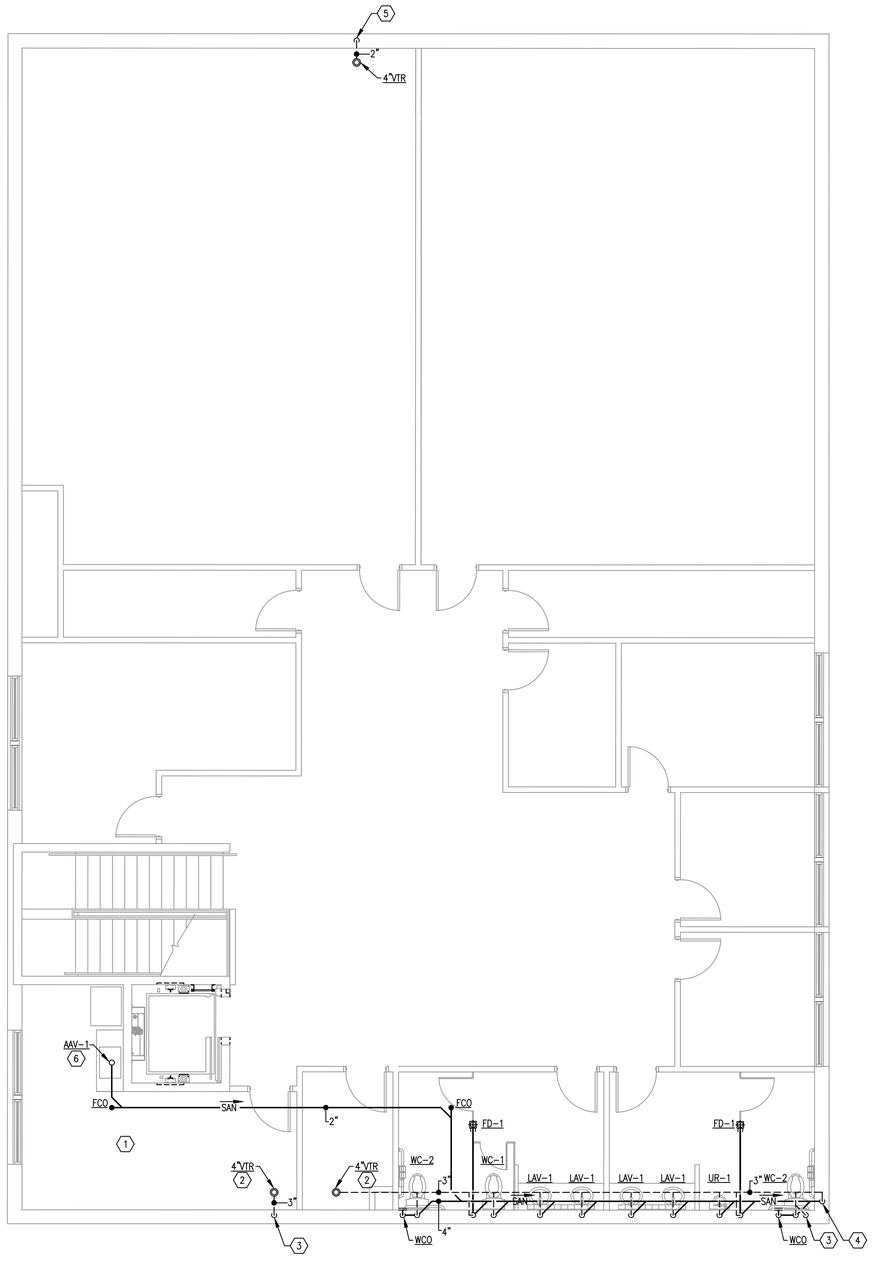

GENERAL NOTES

A.	REFER TO SHEET P1.1 FOR ALL GENERAL NOTES.

KEYED NOTES

1.	GENERAL CONTRACTOR TO COORDINATE WITH ARCHITECT FOR EXACT AND FINAL LOCATIONS OF FIXTURES AND ROUTING OF SANITARY AND VENT LINES PRIOR TO BID.
2.	ROUTE VENT UP TO VTR. COORDINATE ROOF PENETRATION LOCATION WITH OUTDOOR AIR INTAKE OF ROOFTOP EQUIPMENT. MAINTAIN A MINIMUM HORIZONTAL CLEARANCE OF 10'-0".
3.	3" VENT UP FROM FIRST FLOOR. REFER TO P1.1 FOR CONTINUATION.
4.	4" SANITARY LINE DOWN TO FIRST FLOOR. REFER TO P1.1 FOR CONTINUATION.
5.	2" VENT UP FROM FIRST FLOOR. REFER TO P1.1 FOR CONTINUATION.
6.	FIELD ROUTE 1-1/2" VENT TO AAV-1. REFER TO P2.0 FOR MORE INFORMATION.

PLUMBING DWV PLAN - 2ND FLOOR
3/16"=1'-0"

1

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PLUMBING DWV PLAN - SECOND FLOOR

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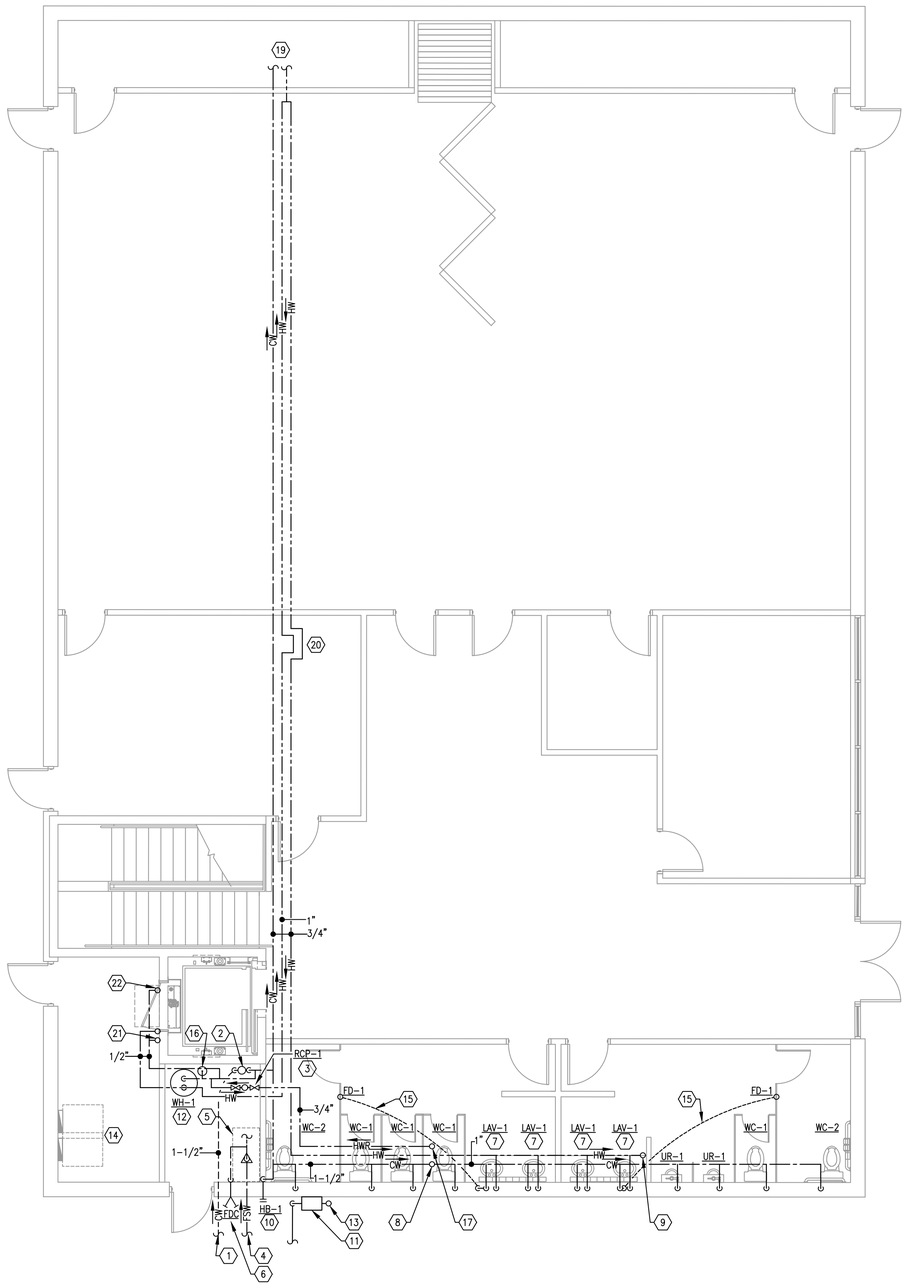

PLUMBING WATER & GAS PLAN - 1ST FLOOR
3/16"=1'-0"

1

GENERAL NOTES

A.	REFER TO SHEET P1.1 FOR ALL GENERAL NOTES.

KEYED NOTES

1.	REFER TO THE CIVIL PLANS FOR CONTINUATION OF THE UNDERGROUND DOMESTIC WATER PIPING AND LOCATION OF BACKFLOW ASSEMBLY. COORDINATE PROPOSED ROUTING WITH SITE UTILITIES, GRADING, LANDSCAPING AND CONCRETE WORK.
2.	DOMESTIC WATER SERVICE RISER SHALL BE INSTALLED COMPLETE WITH LINE SIZED SHUT OFF VALVE, AND PRESSURE REDUCING VALVE ASSEMBLY WHERE INLET PRESSURE EXCEEDS 75 PSI.
3.	FIELD COORDINATE THE INSTALLATION OF THE INLINE HOT WATER RECIRCULATION PUMP, EXPANSION TANK AND CHECK VALVE ASSEMBLY.
4.	REFER TO THE CIVIL PLANS FOR CONTINUATION OF THE UNDERGROUND FIRE WATER PIPING AND LOCATION OF BACKFLOW ASSEMBLY. COORDINATE PROPOSED ROUTING WITH SITE UTILITIES, GRADING, LANDSCAPING AND CONCRETE WORK.
5.	ROUGH-IN 6" FIRE SERVICE TO THE MECHANICAL ROOM. THE FIRE RISER ASSEMBLY SHALL BE INSTALLED BY A DULY LICENSED FIRE PROTECTION CONTRACTOR. 4'X2' RISER FOOTPRINT SHOWN FOR AVAILABLE CLEARANCE.
6.	FIRE WATER LINE TO FIRE DEPARTMENT CONNECTION TO BE PROVIDED BY THE FIRE SPRINKLER CONTRACTOR. COORDINATE COMPLETE INSTALLATION WITH THE FIRE SPRINKLER DESIGN.
7.	ROUTE 1/2" HW & CW TO HAND WASHING FIXTURE. INSTALL SUPPLIES COMPLETE WITH HOT WATER TEMPERING VALVE.
8.	ROUTE 3/4" CW UP TO SECOND FLOOR. REFER TO SHEET P1.4 FOR CONTINUATION.
9.	ROUTE 3/4" HW UP TO SECOND FLOOR. REFER TO SHEET P1.4 FOR CONTINUATION.
10.	COORDINATE INSTALLATION OF WALL MOUNTED HOSE BIBB, WITH INTERIOR WALL FRAMING AND EXTERIOR FINISHES. REFER TO ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
11.	PROVIDE NEW (0.5 PSI) GAS METER, VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION. COORDINATE THE COMPLETE INSTALLATION OF LINE SIZED, GAS METER AND REGULATOR ASSEMBLY WITH THE SERVICE PROVIDER.
12.	FLOOR MOUNTED ELECTRIC TANK TYPE WATER HEATING SYSTEM.
13.	ROUTE THE 1-1/2" (0.5 PSI) GAS SERVICE PIPING UP THE EXTERIOR WALL FOR UNDER ROOF DISTRIBUTION. EXPOSED PIPING SHALL BE PAINTED TO MATCH THE EXTERIOR WALL FINISH. REFER TO P1.4 FOR CONTINUATION OF PIPING.
14.	PROPOSED ELECTRICAL PANEL LOCATION. NO PIPING SHALL BE INSTALLED ABOVE OR BELOW THE CEILING AT THIS LOCATION.
15.	1/2" CW BELOW FLOOR, FROM TRAP PRIMER TO RECEPTOR.
16.	FIELD COORDINATE PLACEMENT OF THE HOT WATER EXPANSION TANK. WATER PIPE SHALL BE FULL SIZE OF THE EXPANSION TANK CONNECTION.
17.	3/4" HW DOWN FROM SECOND FLOOR. REFER TO P1.4 FOR CONTINUATION.
18.	3/4" HW UP TO SECOND FLOOR. REFER TO P1.4 FOR CONTINUATION.
19.	CONTRACTOR TO COORDINATE WITH ARCHITECT FOR FINAL LOCATION OF MOP SINK AND ROUTING OF HW & CW LINES PRIOR TO CONSTRUCTION.
20.	PLUMBING CONTRACTOR TO INSTALL HW EXPANSION LOOP PER 2015 IPC.
21.	ROUTE 1/2" HW & CW UP TO SECOND FLOOR BREAK ROOM SINK.
22.	ROUTE 1/2" CW UP TO SECOND FLOOR BREAK ROOM REFRIGERATOR.

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PLUMBING WATER & GAS PLAN - FIRST FLOOR

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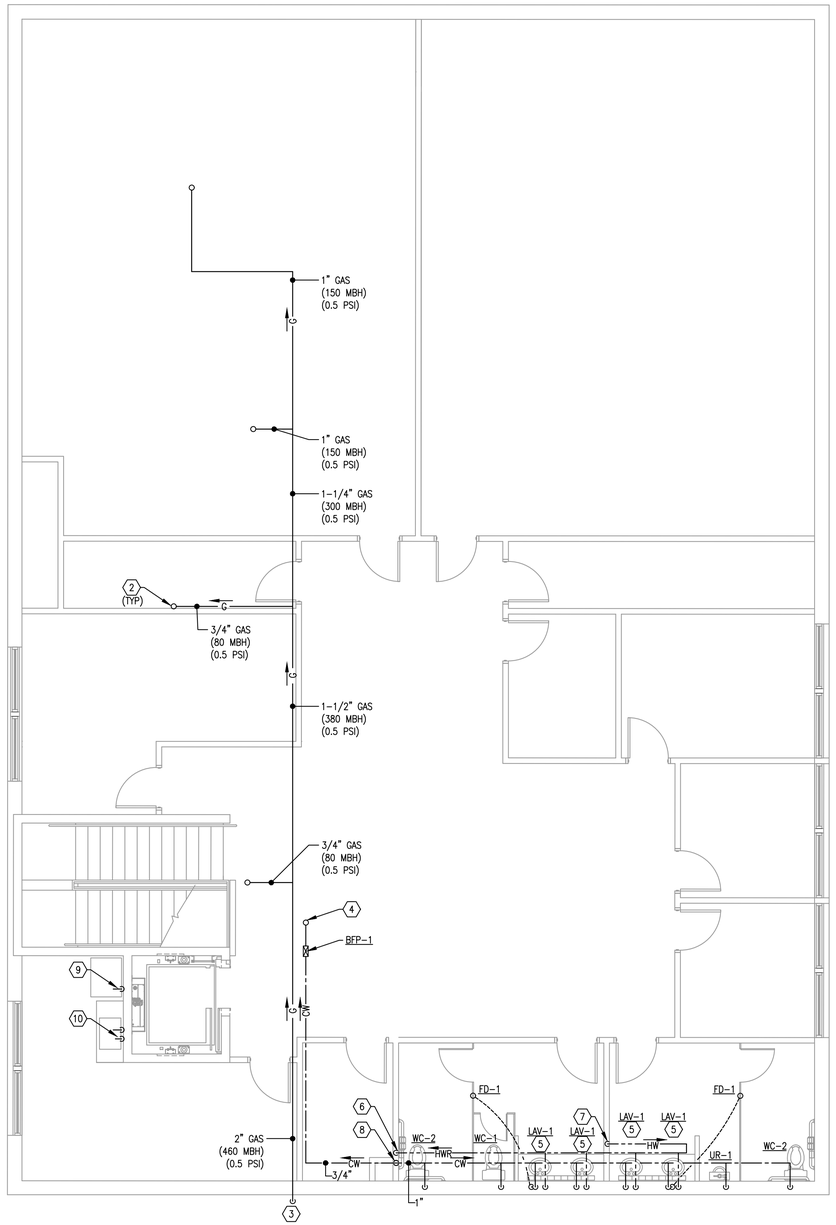

GENERAL NOTES

A.	REFER TO SHEET P1.0 FOR ALL GENERAL NOTES.

KEYED NOTES

ⓕ	
1.	3/4" COLD WATER LINE UP FROM FIRST FLOOR. REFER TO P1.1 FOR CONTINUATION.
2.	GAS PIPING TO BE ROUTED UP THROUGH ROOF. HVAC ROOF TOP CONNECTION COMPLETE WITH GAS COCK, UNION & 6" DIRT LEG.
3.	GAS PIPING UP FROM METER. REFER TO P1.3 FOR CONTINUATION.
4.	ROUTE 3/4" COLD WATER UP WITHIN THE HVAC UNIT CURB AND TERMINATE WITH HOSE BIBB. REFER TO SHEET MEP1.0 FOR PIPING CONTINUATION ON THE ROOF.
5.	ROUTE 1/2" HW & CW TO HAND WASHING FIXTURE. INSTALL SUPPLIES COMPLETE WITH HOT WATER TEMPERING VALVE.
6.	3/4" HW DOWN TO FIRST FLOOR. REFER TO P1.3 FOR CONTINUATION.
7.	3/4" HW UP FROM FIRST FLOOR. REFER TO P1.3 FOR CONTINUATION.
8.	1" CW UP FROM FIRST FLOOR. REFER TO P1.3 FOR CONTINUATION.
9.	1/2" HW & CW UP FROM FIRST FLOOR TO BREAK ROOM SINK. RUN PIPE WITHIN MILLWORK. CONTRACTOR TO VERIFY WITH ARCHITECT BEFORE CONSTRUCTION.
10.	1/2" CW UP FROM FIRST FLOOR TO BREAK ROOM SINK. RUN PIPE WITHIN MILLWORK. CONTRACTOR TO VERIFY WITH ARCHITECT BEFORE CONSTRUCTION.

PLUMBING WATER & GAS PLAN - 2ND FLOOR
3/16"=1'-0"

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PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	ROUGH-IN-SIZE S/W	V	CW	HW	DESCRIPTION/REMARKS
WC-1	WATER CLOSET ASSEMBLY	4"	2"	1/2"	–	KOHLER "HIGHLINE" #K-3999 FLOOR MOUNTED, TANK TYPE, WHITE VITREOUS CHINA WITH 1.28 GPF SIPHON JET BOWL, BOLT CAPS, ELONGATED OPEN FRONT SEAT (LESS COVER) WITH CHECK HINGE STOPS.
UR-1	URINAL (ADA)	2"	1 1/2"	3/4"	–	KOHLER "BARDON" #K-4960-ET VITREOUS CHINA WALL HUNG URINAL WITH SLOAN ROYAL #186.05 FLUSH VALVE, 0.5 GPF, WITH 3/4" TOP INLET SPUD & WALL CARRIER.
LAV-1	LAVATORY (ADA)	2"	1 1/2"	1/2"	1/2"	KOHLER "CAXTON" #K-2211-G 19X15 ADA COMPLIANT UNDERMOUNT SINK BOWL WITH GLAZED UNDERSIDE AND CLAMPS, WITHOUT OVERFLOW. FAUCET: ZURN Z81000-XL-3M, 0.5 GPM AQUASPEC SINGLE CONTROL FAUCET ON 4" CENTERS WITH GRID DRAIN ASSEMBLY. INSTALL COMPLETE WITH TRUEBRO LAV GUARD 2 UNDERSINK PIPING COVER(S).
SK-1	SINK (ADA)	2"	1 1/2"	1/2"	1/2"	JUST #SL-ADA-2231-A-GR 18 GA. STAINLESS STEEL SELF RIMMING, 3 HOLE, 4" O.C. PUNCH & 6" TAIL PIECE. INSTALL COMPLETE WITH #J-902 POLISHED CHROME FAUCET WITH HOSE, BRASSCRAFT "COMMERCIAL" RIGID SUPPLIES, ANGLE STOPS, CHROME PLATED 17GA. CAST BRASS P-TRAP WITH SECURED ESCUTCHEON.
MS-1	MOP SINK	3"	2"	3/4"	3/4"	FIAT #MSB-2424 MOP SINK WITH AMERICAN STANDARD #8345.115.002 EXPOSED YOKE WALL MOUNTED SERVICE FAUCET W/ VACUUM BREAKER, INTEGRAL STOPS, REINFORCED POLYESTER RESIN 24 X 24 CORNER MODEL WITH 3" DRAIN OUTLET STAINLESS STEEL CORNER FLASHING.
FD-1	FLOOR DRAIN	3"	2"	1/2"	–	ZURN #415 TYPE 'B' STRAINER, 5"ø NICKEL BRONZE GRATE, CAST IRON BODY, CONVERTIBLE MEMBRANE CLAMP, ADJUSTABLE COLLAR, AND TRAP PRIMER CONNECTION.
FD-2	FLOOR DRAIN	4"	2"	–	–	ZURN #415 TYPE 'B' STRAINER, 5"ø NICKEL BRONZE GRATE, CAST IRON BODY, CONVERTIBLE MEMBRANE CLAMP, ADJUSTABLE COLLAR.
FCO	FLOOR CLEANOUT	LINE SIZED	–	–	–	ZURN #1400 ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT TAPERED THREAD PLUG, AND 5"ø ROUND POLISHED NICKEL BRONZE TOP.
WCO	WALL CLEANOUT	LINE SIZED	–	–	–	ZURN #1443 SQUARE WALL CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT TAPERED THREAD PLUG, AND NICKEL BRONZE SECURED SQUARE, SMOOTH WALL ACCESS COVER AND FRAME.
DCO	DOUBLE CLEANOUT	LINE SIZED	–	–	–	ZURN #CO-2448, PVC CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED CAST IRON TOP, GASKET SEAL CAST IRON PLUG WITH RECESSED SOCKET. INSTALL IN MINIM OF 12"x12"x4" REINFORCED CONCRETE PAD WITH BEVELED EDGES.
HB-1	HOSE BIBB	–	–	LINE SIZED	–	MIFAB MHY-26-3 AUTOMATIC DRAINING FREEZELESS WALL FAUCET ENCLOSED IN A FLUSH MOUNTED WALL BOX, WITH ANTI-SIPHON INTEGRAL VACUUM BREAKER AND ROUGH BRASS FINISH. INSTALL BOTTOM OF WALL BOX 20" ABOVE FINISHED GRADE (UNO).
HB-2	HOSE BIBB	–	–	3/4"	–	MIFAB MHY-90-31 AUTOMATIC DRAINING WALL FAUCET WITH ANTI-SIPHON INTEGRAL VACUUM BREAKER. INSTALL FIXTURE THROUGH CURB BASE OF MECHANICAL ROOFTOP UNIT.

PLUMBING EQUIPMENT SCHEDULE

MARK	FIXTURE	ROUGH-IN-SIZE S/W	V	CW	HW	DESCRIPTION/REMARKS
WH-1	TANK TYPE WATER HEATER	–	–	1"	1"	A.O. SMITH #DEL-40 ELECTRIC TANK TYPE UNIT COMPLETE WITH IMMERSION TYPE THERMOSTAT AND T&P RELIEF VALVE, 40 GAL. CAPACITY, (2) 4 KW HEATING ELEMENT WITH A 36 GPH RECOVERY AT A 90°F RISE, 208V/ 1PH. PROVIDE HOT AND COLD WATER HEAT TRAP FITTINGS/ RISERS.
ET-1	EXPANSION TANK	–	–	–	–	WATTS #PLT-5, WITH STEEL BODY AND BUTYL RUBBER DIAPHRAGM FOR 2.10 GALLONS TOTAL CAPACITY/ 0.85 GALLONS ACCEPTANCE CAPACITY, 40 PSI FACTORY PRE-CHARGED.
RCP-1	RECIRCULATION PUMP	–	–	–	3/4"	GRUNDFOS #UP15-10B7 INLINE HOT WATER OPEN SYSTEM RECIRCULATING PUMP, CAPABLE OF 4.0 GPM (140°F) @ 4' HEAD, 1/25 HP, 115V/1PH, INTEGRAL ATTACHED TIMER FOR OPERATION CONTROLS, AND ATTACHED POWER CORD.
TP-1	TRAP PRIMER	–	–	1/2"	–	MIFAB INDUSTRIES TRAP PRIMER UNDER LAV. PROVIDE DISTRIBUTION UNIT AS REQUIRED FOR SUPPLY TO MULTIPLE DRAINS. INSTALL VALVE RECESSED IN WALL A MINIMUM 12" AFF, PROVIDE MIFAB UA SERIES ACCESS DOOR.
WHA-1	WATER HAMMER ARRESTER	–	–	LINE SIZED	–	PPP, INC. SERIES SC, FULLY MECHANICAL WATER HAMMER ARRESTER SIZED AND LOCATED PER THE MANUFACTURER SPECIFICATIONS.
MXV-1	MIXING VALVE	–	–	1/2"	1/2"	WATTS REGULATOR #LFMMV MOUNTED UNDER SINK THERMOSTATIC MIXING VALVE, WITH BRASS BODY AND INTEGRAL MOUNTING HOLES, TAMPER RESISTANT ENCLOSURE. SUPPORTED TO STRUCTURE.
BFP-1	BACKFLOW PREVENTER	–	–	LINE SIZED	–	WATTS REGULATOR LF007 DOUBLE CHECK VALVE ASSEMBLY. ROOF TOP HOSE BIBB SHALL BE PROTECTED BY AN APPROVED BACKFLOW PREVENTER AND SHALL BE RATED FOR 150 PSI, TWO POSITIVE SEATING CHECK MODULES WITH CAPTURED SPRINGS AND RUBBER SEAT DISCS. VERIFY APPROVAL WITH UTILITY AND JURISDICTION PRIOR TO INSTALLATION.
OI-1	OIL INTERCEPTOR	–	–	LINE SIZED	–	PARK EQUIPMENT COMPANY PRECAST CONCRETE 100 GALLON OIL INTERCEPTOR. REFER TO P1.1 FOR LOCATION AND LAYOUT RELATIVE TO THE BUILDING.
AAV-1	AIR ADMITTANCE VALVE	–	LINE SIZED	–	–	STUDOR #20300 "MINI-VENT" WITH PROTECTIVE COVER.

PIPING MATERIAL SCHEDULE

1.	WATER PIPE (ABOVE GROUND)	UPONOR CROSSLINKED POLYETHYLENE (PEX-a) PIPING MEETING ASTM F 877, SDR 9 STANDARDS WITH MANUFACTURER AVAILABLE ENGINEERED POLYMER (EP) COLD EXPANSION FITTINGS AND PEX REINFORCING RINGS MEETING ASTM F 1960. PIPING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SHALL NOT BE INSTALLED WHERE IT IS EXPOSED TO SUNLIGHT. FIELD COORDINATE THE INSTALLATION OF MANUFACTURED PIPING COLOR AND PIPING LENGTHS TO RUN AS STRAIGHT AS POSSIBLE UTILIZING PEX-a PIPE SUPPORTS. ALL PIPING AND FITTINGS SHALL BE BY THE SAME MANUFACTURER.
2.	WATER PIPE (BELOW GROUND)	UPONOR CROSSLINKED POLYETHYLENE (PEX-a) PIPING MEETING ASTM F 877, SDR 9 STANDARDS. NO JOINTS OR FITTINGS SHALL BE INSTALLED BELOW THE BUILDING SLAB. FIELD COORDINATE THE INSTALLATION OF MANUFACTURED PIPING COLOR AND PIPING LENGTHS TO RUN AS STRAIGHT AS POSSIBLE. ALL PIPING AND FITTINGS SHALL BE BY THE SAME MANUFACTURER.
3.	WATER PIPE (INSULATION)	BOTH HOT AND COLD WATER PIPING SHALL BE INSTALLED COMPLETE WITH INSULATION EITHER IN CONCEALED OR EXPOSED LOCATIONS. REFER TO GENERAL NOTES FOR INSULATION THICKNESS INFORMATION.
4.	SEWER AND VENT PIPE (ABOVE AND BELOW GRADE)	DWV SCHEDULE 40 POLYVINYL CHLORIDE (PVC) PIPING. INSIDE BUILDING SERVICE WEIGHT (HUBLESS) CAST IRON SOIL PIPE AND STAINLESS STEEL NO HUB COUPLINGS SHALL BE UTILIZED FOR THE FIRST 10'-0" OF PIPING RECEIVING DISCHARGE FROM A DISHWASHER(S).
5.	CONDENSATE DRAIN PIPE AND INDIRECT DRAINAGE PIPE (INTERIOR TO BUILDING)	TYPE 'M' COPPER WITH 95/5 SILVER SOLDER JOINT FITTINGS. INSULATE CONDENSATE PIPING WITH 1/2" ARMAFLEX CLOSED CELL PIPE INSULATION WITH SELF SEALING ADHESIVE JOINTS, OR EQUIVALENT.
6.	CONDENSATE DRAIN PIPE (EXTERIOR TO BUILDING)	TYPE 'M' COPPER WITH 95/5 SILVER SOLDER JOINT FITTINGS.
7.	GAS PIPE	GAS PIPE – SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON FITTINGS. WELDED JOINTS FOR PIPE 2 1/2" AND LARGER AND ALL JOINTS BELOW GRADE. EXTERIOR GAS PIPING AT THE METER ASSEMBLY SHALL BE FIELD PAINTED MISSISSIPPI BRONZE. GAS PIPING EXTERIOR ON THE ROOF SHALL BE FIELD PAINTED WITH ZINC RICH GALVANIZED YELLOW PAINT FOR CORROSION PROTECTION. GAS PIPING INTERIOR TO THE BUILDING SHALL BE FIELD PAINTED YELLOW.
8.	SUSPENDED PIPING SUPPORT	SUPPORT PIPING WITH CLEVIS OR SPLIT RING TYPE PIPE HANGERS 3/8" ALL THREAD ROD AND BEAM CLAMPS. "PLUMBERS TAPE AND WIRE" NOT PERMITTED.

HOT WATER DEMAND

ITEM	QTY.	GPH	TOTAL GPH
LAVATORY	8	5	40
KITCHEN SINK	1	10	10
MOP SINK	1	15	15
TOTAL			65

HOT WATER CALCULATIONS:

PEAK DEMAND

1. 65 GPH (PEAK DEMAND) X 0.40 (DEMAND FACTOR) = 26 GPH.
2. 26 GPH (DEMAND) X 1.0 (STORAGE FACTOR) = 26 GALS.
3. 65 GPH (PEAK DEMAND) / 60 MIN./HR = 1.08 GPM.
4. 50°F DOMESTIC SUPPLY WATER TEMPERATURE.
5. 120°F DESIGN SUPPLY HOT WATER FOR KITCHEN.
6. 500 GPM X $\triangle$T = MIN. OUTPUT BTUH REQUIRED AT WATER HEATER. (500)(1.08)(90) = 48,750 BTUH.

GAS DEMAND LOAD SCHEDULE

NO.	DESCRIPTION	CONN. SIZE	QTY.	INPUT (MBH/EA)	TOTAL (MBH)
RTU-1	ROOF TOP UNIT	3/4"	1	80	80
RTU-2	ROOF TOP UNIT	3/4"	1	80	80
RTU-3	ROOF TOP UNIT	1"	1	150	150
RTU-4	ROOF TOP UNIT	1"	1	150	150
		COOKING APPLIANCE SUB-TOTAL			–
		WATER HEATING SUB-TOTAL			–
		HVAC SUB-TOTAL			460
		MISC. SUB-TOTAL			–
		GAS DEMAND TOTAL (MBH)			460
		GAS DEMAND TOTAL (CFH)			460
		GAS DEMAND TOTAL (BTUH)			460,000

NOTE(S):

1. THE ACTUAL LENGTH FROM THE METER TO THE MOST REMOTE APPLIANCE CONNECTION IS 110'-00 THE SYSTEM IS SIZED FOR A TOTAL DEVELOPED LENGTH OF MAXIMUM 165'-0".
2. THE SERVICE TO THE BUILDING SHALL BE INSTALLED AS LOW PRESSURE SUPPLY (INLET PRESSURE OF 0.5 PSI).
3. PIPE SIZES SHOWN ON THE RISER DIAGRAM ARE BASED ON 2018 INTERNATIONAL FUEL GAS CODE, WITH LOCAL AMENDMENTS, TABLE 402.4(2) FOR NATURAL GAS. VERIFY FIELD CONDITIONS FOR ACTUAL DEVELOPED LENGTH AND POSSIBLE ADJUSTMENTS TO PIPE SIZES.
4. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY FOR THE PROVISION OF THE COMPLETE METER ASSEMBLY INCLUDING REGULATOR AND VENTING REQUIREMENTS.

PLUMBING LEGEND

SYMBOL	ABBREV.	DESCRIPTION
SAN	S OR W	SOIL OR WASTE (BELOW GRADE)
GW	GW	GREASE WASTE
V	V	VENT
CD	CD	CONDENSATE DRAIN
ST	ST	STORM DRAIN
CW	CW	COLD WATER
FW	FW	FILTERED WATER
SW	SW	SOFTENED WATER
FSW	FSW	FIRE SERVICE WATER
HW	HW	HOT WATER
HWR	HWR	HOT WATER RETURN
RO	RO	REVERSE OSMOSIS WATER
G	G	GAS, NATURAL OR PROPANE
	UP	PIPE UP
	DN.	TEE DOWN
	DN.	PIPE DOWN
FCO	FCO	FLOOR CLEANOUT
DCO	DCO	DOUBLE CLEANOUT
CO	CO	CLEANOUT, WALL OR PIPE
SOV	SOV	SHUT-OFF VALVE
NO	SOV	SHUT-OFF VALVE, NORMALLY OPEN
NC	SOV	SHUT-OFF VALVE, NORMALLY CLOSED
C.V.	C.V.	CHECK VALVE
B.V.	B.V.	BALANCING VALVE
U	U	UNION
P.V.	P.V.	MECHANICAL PLUG VALVE (GAS)
SOC	SOC	SHUT-OFF COCK (GAS)
EAAV	EAAV	EARTHQUAKE ACTUATED AUTOMATIC VALVE (GAS)
S.V.	S.V.	ELECTRIC SOLENOID VALVE (GAS)
P.R.	P.R.	PRESSURE REGULATOR (GAS)
POC	POC	POINT OF CONNECTION
T&P	T&P	TEMPERATURE & PRESSURE RELIEF VALVE
VTR	VTR	VENT TO ROOF
HD	HD	HUB DRAIN
FD	FD	FLOOR DRAIN (COORDINATE GRATE REQS)
FS	FS	FLOOR SINK (COORDINATE GRATE REQS)
RP	RP	RECIRCULATION PUMP
HB	HB	HOSE BIBB
	KEC	KITCHEN EQUIPMENT CONTRACTOR
	BTUH	BRITISH THERMAL UNITS PER HOUR
	MBH	BTUH X 1000
	CFH	CUBIC FEET PER HOUR (1 MBH = 1 CFH)
	(E)	EXISTING
	I.E.	INVERT ELEVATION
	CONN	CONNECTION
	FU	FIXTURE UNITS
	GPM	GALLONS PER MINUTE
	GPH	GALLONS PER HOUR
	HP	HORSEPOWER
	PSI	POUNDS PER SQUARE INCH
	AP	ACCESS PANEL
	W/	WITH
	FLR	FLOOR
	CLG	CEILING
	ABV	ABOVE
	BEL	BELOW
	UG	UNDERGROUND
	DN	DOWN
	CONT.	CONTINUE
	TYP.	TYPICAL
	FOH	FRONT OF HOUSE
	BOH	BACK OF HOUSE
	A.D.A.	AMERICAN DISABILITIES ACT
	A.F.F.	ABOVE FINISH FLOOR
	B.F.F.	BELOW FINISH FLOOR

BACKFLOW DEVICE SCHEDULE

ITEM/ FIXTURE	ITEM/ EQUIPMENT #	BACKFLOW DEVICE
ROOF HOSE BIBB	–	BFP-1
SERVICE SINK	–	INTEGRAL
HOSE BIBB(S)	–	

PLUMBING GENERAL NOTES

1. NOTE: FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS.
2. THE PLUMBING SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
3. PLUMBING QUALITY, WEIGHTS OF MATERIALS AND ALTERNATE METHODS OF CONSTRUCTION SHALL CONFORM TO THE 2015 INTERNATIONAL PLUMBING CODE WITH LOCAL AMENDMENTS.
4. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON THESE DRAWINGS AND SPECIFICATIONS WITH ALL DISCIPLINES AND TRADES PRIOR TO SUBMITTAL OF BID AND INSTALLATION OF SYSTEM.
5. CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL FEES, CHARGES, PERMITS AND METERS.
6. THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND LABOR (INCLUDING THE COMPLETE PLUMBING SYSTEM) FOR A PERIOD OF ONE YEAR FROM WRITTEN ACCEPTANCE BY THE TENANT. ANY DEFECTS IN MATERIALS AND OR LABOR FOUND WITHIN THE GUARANTEE PERIOD SHALL BE REMEDIED OR REPAIRED BY THIS CONTRACTOR IN A TIMELY FASHION, AT NO COST TO THE TENANT.
7. ALL PLUMBING FIXTURE LOCATIONS (WATER CLOSETS, LAVATORIES ETC.) ARE DIAGRAMMATIC. CONTRACTOR SHALL REFER TO FOOD SERVICE AND ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT AND MOUNTING HEIGHTS.
8. ANY DEVIATIONS FROM THE DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
9. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTAL OF BID AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS. SUBMITTAL OF BID WILL VERIFY THAT THE CONTRACTOR HAS VISITED THE SITE.
10. PIPING SHALL BE INSTALLED PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. THE INSTALLATION SHALL MEET ALL CONSTRUCTION CONDITIONS AND ALLOW FOR THE INSTALLATION OF OTHER TRADES.
11. TRAP PRIMERS FOR FLOOR DRAINS AND FLOOR SINKS AND WATER HAMMER ARRESTORS ARE TO BE INSTALLED AS PER THE 2015 INTERNATIONAL PLUMBING CODE WITH LOCAL AMENDMENTS AND THE LATEST EDITION OF THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE 1010) SIZING AND INSTALLATION REQUIREMENTS.
12. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
13. ALL SERVICE WATER HEATING EQUIPMENT TO BE IN COMPLIANCE WITH THE 2015 INTERNATIONAL PLUMBING CODE WITH LOCAL AMENDMENTS AND LABELED AS SUCH.
14. ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE INSTALLED BY THE ROOFING CONTRACTOR. ENSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED FOR POWER.
15. ALL WATER PIPING TO BE INSULATED AS PER THE 2015 INTERNATIONAL PLUMBING CODE WITH LOCAL AMENDMENT REQUIREMENTS:

PIPE SIZE	INSULATION THICKNESS	INSULATION VALUE
1/2" THRU 1 1/4"	1"	R = 4.0
1-1/2" THRU 2"	1 1/2"	R = 6.0

16. CONTRACTOR SHALL PROVIDE: FAUCETS, TRAPS, STOPS, BALL VALVES, BACKFLOW DEVICES FOR KITCHEN EQUIP. GASCOCKS, WATER HAMMER ARRESTORS, CLEANOUT COVERS AND INDIRECT WASTE TO AN APPROVED RECEPTOR AND ALL NECESSARY TRIM FOR A COMPLETELY CONNECTED PLUMBING SYSTEM.
17. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE AND LOCATED AS PER CODE REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE ALL CLEAN OUT LOCATIONS WITH EQUIPMENT, MILLWORK, ETC., PRIOR TO INSTALLATION.
18. ALL PLUMBING FIXTURE VENTS TO TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10'-0" FROM OR 3'-0" ABOVE ANY MECHANICAL EQUIPMENT OUTSIDE AIR INTAKE.
19. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS CONNECTED SUPPLY LINE UNLESS OTHERWISE NOTED ON DRAWINGS.
20. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH SCREW-TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.
21. ALL UNDERGROUND METALLIC PIPE AND FITTINGS SHALL BE PROTECTED IN ACCORDANCE WITH THE SOILS ENGINEER'S RECOMMENDATIONS.
22. NO PIPING SHALL BE DIRECTLY EMBEDDED IN CONCRETE, MASONRY WALLS, OR CONCRETE FOOTINGS.
23. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS FOR ALL POINTS OF CONNECTION WITH THE GENERAL CONTRACTOR AND OTHER TRADES PRIOR TO START OF WORK.
24. VERIFY EXACT LOCATIONS, DEPTH AND SIZE OF ALL PIPING TO WHICH CONNECTIONS ARE REQUIRED. COORDINATE ALL CONNECTIONS WITH SITE CONDITIONS AND SITE UTILITY CONTRACTOR/ REPRESENTATIVE.
25. ALL HORIZONTAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATIONS AND NOT LESS THAN 6" ABOVE THE FLOOR TO PROVIDE CLEARANCE FOR CLEANING.
26. ALL CUTTING OF EXISTING PAVING, WALKS AND/OR FLOORS SHALL UTILIZE MACHINE SAW CUTTING EQUIPMENT. HOLES FOR PIPES IN CONCRETE WALLS OR FLOORS SHALL UTILIZE CORE DRILLING EQUIPMENT. COORDINATE WITH ARCHITECTURAL DETAILS FOR FLOOR CUTTING AND PATCHING.
27. THE PLUMBING CONTRACTOR IS TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQUIRED FOR COORDINATION WITH WORK OF OTHER TRADES.
28. PIPING LAYOUT IS SCHEMATIC ONLY, EXACT ROUTING AND INSTALLATION OF PIPES TO BE COORDINATED WITH THE BUILDING STRUCTURE AND THE WORK OF OTHER CONTRACTORS. NO WATER OR DRAIN LINES ARE PERMITTED TO BE INSTALLED OVER OR UNDER ELECTRICAL PANELS.
29. NO LIQUID TRANSMISSION PLUMBING PIPING SHALL BE INSTALLED ABOVE ELECTRICAL SWITCH GEAR, EQUIPMENT, OR PANELS. MAKE ADJUSTMENTS NECESSARY TO REROUTE PIPING FOR ACTUAL INSTALLATION OF ELECTRIC EQUIPMENT.
30. WHENEVER FOUNDATION WALLS, EXTERIOR WALLS, ROOFS, ETC. ARE PENETRATED FOR THE INSTALLATION OF PLUMBING SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT.
31. ANY EXPOSED PIPING IN THE GUEST AREAS SHALL BE PAINTED TO MATCH THE WALL COLOR. ANY EXPOSED GAS PIPING IN THE KITCHEN SHALL BE PAINTED WHITE.
32. PLUMBING CONTRACTOR SHALL BE ON SITE AND PRESENT AT THE DATE OF STORE TURNOVER.
33. DURING THE PROGRESS OF THE WORK, MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE IN THE PLUMBING SYSTEMS. THE RECORD DRAWING SHALL SHOW CHANGES IN MANUFACTURER (WITH NUMBERS AND TRADE NAMES). MATERIALS, SIZES, LOCATIONS AND HOOK-UP POINTS. AS-BUILTS SHALL BE GIVEN TO OWNER'S CONSTRUCTION MANAGER AT COMPLETION OF JOB.
34. UPON COMPLETION OF JOB, THIS CONTRACTOR SHALL INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATION AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKINGS AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY LAW.
35. PLUMBING CONTRACTOR SHALL PROVIDE MANUFACTURER'S OPERATION LITERATURE FOR ALL INSTALLED EQUIPMENT AND FIXTURES AT THE DATE OF STORE TURNOVER.
36. ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.

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02/24/2021

PLUMBING SCHEDULES

MASONIC TEMPLE
SUPREME COUNCIL A.A.S.R.
3200 ST. BERNARD AVE.
NEW ORLEANS, LOUISIANA 70119

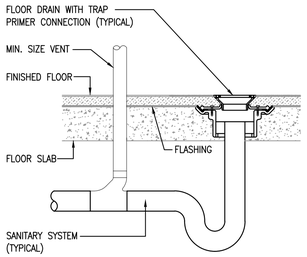
DATE	DESCRIPTION	BY
02/24/2021	ISSUE FOR PERMIT	

SCALE:
AS NOTED

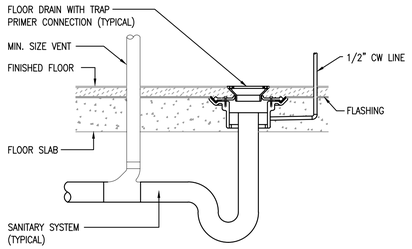
PROJECT NO.
083-01

SHEET NO.
P2.1

FLOOR DRAIN

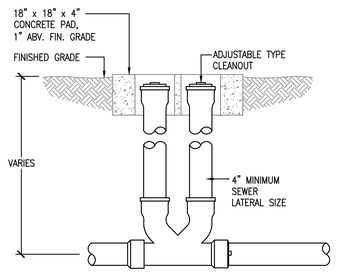


FLOOR DRAIN (RESTROOM)

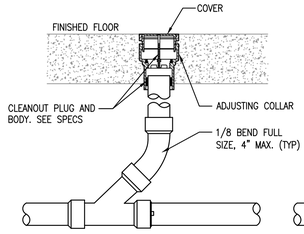


DRAIN DETAILS 1
SCALE: NONE

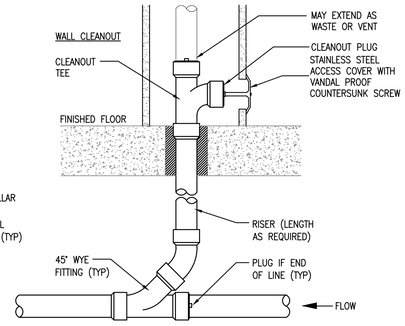
DOUBLE CLEANOUT



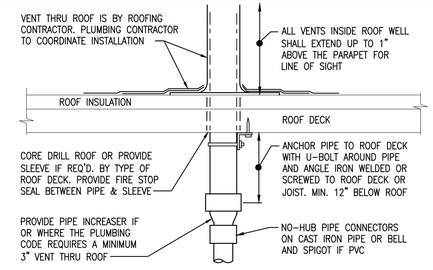
FLOOR CLEANOUT



WALL CLEANOUT



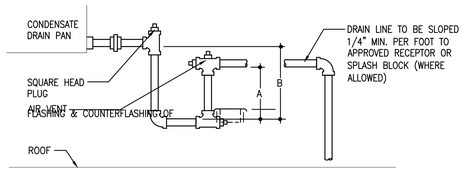
CLEANOUT DETAILS 2
SCALE: NONE



REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MIN. THREE FEET FROM PROPERTY LINE, OR TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, OR ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 18" FROM PARAPET, EXPANSION JOINT, EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS

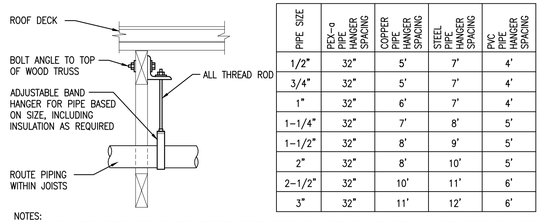
VENT THRU ROOD DETAIL 3
SCALE: NONE

CONDENSATE DRAIN DISCHARGE



NOTES:
1. FILL TRAP MANUALLY ON INITIAL START-UP.
2. TRAP EACH COMPONENT DRAIN CONNECTION.
3. A = NEGATIVE STATIC PRESSURE = 2"
4. B = 2x NEGATIVE STATIC PRESSURE = 4"

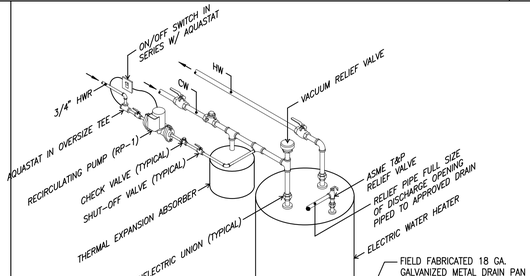
HVAC CONDENSATE CONNECTION DETAIL 4
SCALE: NONE



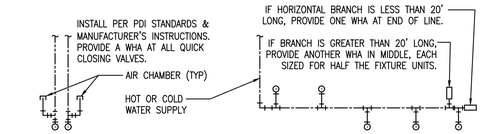
PIPE SIZE	PEX-a PIPE HANGER SPACING	COPPER PIPE HANGER SPACING	STEEL PIPE HANGER SPACING	PVC PIPE HANGER SPACING
1/2"	32"	5'	7'	4'
3/4"	32"	5'	7'	4'
1"	32"	6'	7'	4'
1-1/4"	32"	7'	8'	5'
1-1/2"	32"	8'	9'	5'
2"	32"	8'	10'	5'
2-1/2"	32"	10'	11'	6'
3"	32"	11'	12'	6'

NOTES:
1. PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. SLOPE ALL WATER PIPING SLIGHTLY TOWARD DRAINABLE LOCATIONS.
2. HANGER SPACING FOR PIPE SIZE: AS INDICATED ON TABLE. CAST IRON: 10' AND WITHIN 1'-0" OF ALL JOINTS. ROD SIZES FOR PIPE SIZE: 2" AND SMALLER=3/8", 2 1/2" TO 3"=1/2". LOCATE HANGERS WITHIN 1'-0" OF VALVES AND FITTINGS. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS WITHIN 1'-0" OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY.
3. CHAINS AND PERFORATED STRAP IRON AND STEEL ARE NOT ACCEPTABLE. DO NOT SUSPEND PIPE FROM JOIST BRACING MEMBERS. REFER TO CODE AND SPECIFICATIONS FOR FURTHER INFORMATION. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES, SEE "TRAPEZE PIPE HANGER DETAIL."
4. FOR PEX-a PIPING INSTALLED WITH THE MANUFACTURER AVAILABLE 23GA GALVANIZED METAL PIPE SUPPORT FOR STRAIGHTER RUNS OF INSTALLED PIPING, THE HANGER SPACING MAY INCREASE AS FOLLOWS: 3/4" AND SMALLER = 6'-0" OC, 1" TO 3" = 8'-0".

TRUSS PIPE HANGER DETAIL 8
SCALE: NONE



WATER HEATER DETAIL 9
SCALE: NONE

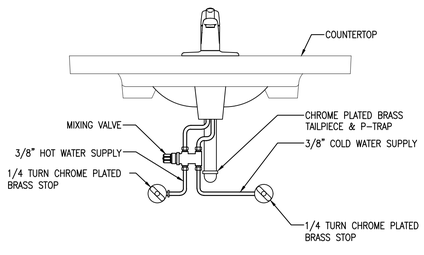


	PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
SINGLE/DOUBLE FIXTURE	A	1/2"	1-11
	B	3/4"	12-32
	C	1"	33-60
	D	1-1/4"	61-113
	E	1-1/2"	114-154
	F	2"	154-330

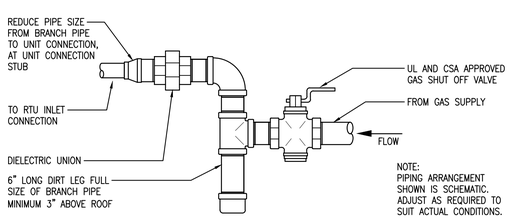
MULTIPLE FIXTURES	FIXTURE UNIT TABULATION		
	FIXTURE	COLD	HOT
	VALVE WATER CLOSET	10	--
	TANK WATER CLOSET	5	--
	URINAL	5	--
	LAVATORY/SINK	1.5	1.5
	JANITOR'S SINK	3	3
	SHOWER/BATHTUB	2	2

NOTE:
FOR BATTERIES OF FIXTURES, PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON & O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 & ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESSIBILITY WHERE REQUIRED BY LOCAL CODE.

WATER HAMMER ARRESTOR DETAIL 6
SCALE: NONE

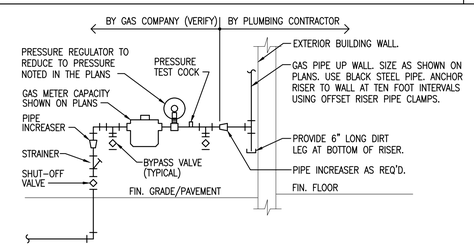


LAVATORY TEMPERING VALVE DETAIL 7
SCALE: NONE



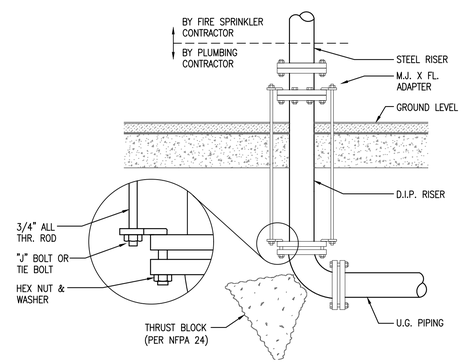
NOTES:
1. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT ACTUAL CONDITIONS.
2. PIPING SHALL BE INSTALLED TO AVOID INTERFERENCE WITH MAINTENANCE ACCESS DOORS.

HVAC GAS CONNECTION DETAIL 10
SCALE: NONE



NOTE:
VERIFY REQUIREMENTS FOR METERING AND PIPING WITH GAS COMPANY. INSTALL OTHER UTILITIES A MINIMUM OF 10'-0" FROM GAS LINE. PLUMBING CONTRACTOR SHALL PAY ALL GAS COMPANY FEES FOR INSTALLATION. USE WELDED OR SCREWED PIPE AND FITTINGS PER PLUMBING SPECS. GAS COMPANY SHALL EXCAVATE, BACKFILL AND REPAIR ANY PAVING OR SOD FOR GAS SERVICE LINE INSTALLATION FROM MAIN TO BUILDING.

GAS SERVICE CONNECTION 11
SCALE: NONE



UNDERGROUND FIRE SERVICE STUB UP DETAIL 12
SCALE: NONE

NONE 13
SCALE: NONE

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02/24/2021

DATE	DESCRIPTION	BY
02/24/2021	ISSUE FOR PERMIT	

SCALE:
AS NOTED

PROJECT NO.
083-01

SHEET NO.
P3.1

PLUMBING DETAILS

MASONIC TEMPLE
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