

RESPONSIBILITY SCHEDULE

ITEM	LANDLORD	PROVIDED BY TENANT	INSTALLED BY TENANT	INSTALLED BY TENANT CONTRACTOR	EXISTING TO REMAIN NOT APPLICABLE	NOTES
	LANDLORD	TENANT	TENANT VENDOR	LANDLORD	TENANT	
GENERAL BUILDING SHELL						
TEMPORARY UTILITIES	●	●	●	●	●	CONTACT: BOSTON BARRICADE
TEMPORARY BARRICADE	●	●	●	●	●	CONTACT: BOSTON BARRICADE
DEMOLITION	●	●	●	●	●	GC TO PATCH & REPAIR AS NEEDED
GRAPHICS FOR BARRICADE	●	●	●	●	●	GC TO PATCH & REPAIR AS NEEDED
TENANT DEMISING WALLS	●	●	●	●	●	GC TO PATCH & REPAIR AS NEEDED
MALL BULKHEAD OR EXTERIOR SIGN FASCIA	●	●	●	●	●	SEE PLAN
MALL NEUTRAL PIERS	●	●	●	●	●	SEE PLAN
STOREFRONT GLAZING/FRAMING	●	●	●	●	●	SEE PLAN
EXTERIOR AWNING/CANOPIES	●	●	●	●	●	SEE PLAN
STOREFRONT SIGNAGE	●	●	●	●	●	CONTACT: TRIANGLE SIGN
STOREFRONT TILE	●	●	●	●	●	SEE PLAN
STOREFRONT TRIM/CHANNELS	●	●	●	●	●	SEE PLAN
COILING GRILLE/SUPPORT POSTS/HARDWARE	●	●	●	●	●	CONTACT: ALUMATEC; SEE PLAN
STOREFRONT DOORS/FRAMES/HARDWARE	●	●	●	●	●	SEE SCHEDULE
REAR DOOR/FRAME/HARDWARE	●	●	●	●	●	SEE PLAN
REAR EXIT DOOR ALARM	●	●	●	●	●	SEE PLAN
EXTERIOR SECURITY FILM	●	●	●	●	●	SEE PLAN
INTERIOR CONSTRUCTION & FINISHES						
MALL FLOORING/EXTERIOR PAVING	●	●	●	●	●	GC TO PATCH & REPAIR AS NEEDED
SALES AREA/VESTIBULE FLOORING	●	●	●	●	●	CONTACT: TRINITY TILE
STOCK ROOM FLOORING	●	●	●	●	●	GC TO CLEAN
TOILET ROOM FLOORING	●	●	●	●	●	GC TO CLEAN
STOCK ROOM DOOR/FRAME/HARDWARE	●	●	●	●	●	SEE PLAN
STOCK ROOM DOOR LOCK	●	●	●	●	●	SEE PLAN
TOILET ROOM DOOR/FRAME/HARDWARE	●	●	●	●	●	SEE PLAN
STOCK ROOM/VESTIBULE WALLS	●	●	●	●	●	SEE PLAN
TOILET ROOM WALLS	●	●	●	●	●	SEE PLAN
SALES AREA CEILING/SOFFITS	●	●	●	●	●	SEE PLAN
VESTIBULE CEILING/SOFFITS	●	●	●	●	●	SEE PLAN
STOCK ROOM CEILING	●	●	●	●	●	SEE PLAN
TOILET ROOM CEILING	●	●	●	●	●	SEE PLAN
SALES AREA/VESTIBULE BASE	●	●	●	●	●	SEE PLAN
ALUMINUM FIXTURE BASE	●	●	●	●	●	GC TO INSTALL IF INSTALLING FIXTURES
STOCK ROOM BASE	●	●	●	●	●	SEE PLAN
TOILET ROOM BASE	●	●	●	●	●	SEE PLAN
PAINT	●	●	●	●	●	SEE PLAN
WALLPAPER	●	●	●	●	●	SEE PLAN
WALK-OFF MAT	●	●	●	●	●	SEE PLAN
FRP WALL PANELS	●	●	●	●	●	SEE PLAN
FIXTURES, FURNITURE & EQUIPMENT						
SALES AREA FIXTURES/FURNITURE/CASHWRAP	●	●	●	●	●	CONTACT: IDX; GC TO BID INSTALLATION
LIGHTBOXES	●	●	●	●	●	CONTACT: CITY LIGHTING
STOCK SHELVING	●	●	●	●	●	SEE PLAN
MANAGER'S DESK, SHELVING, STANDARDS	●	●	●	●	●	SEE PLAN
TOILET ROOM ACCESSORIES	●	●	●	●	●	SEE PLAN
FIRE EXTINGUISHERS	●	●	●	●	●	CONTACT: TRIANGLE SIGNS; BOSTON BARRICADES; BRAND VM
INTERIOR SIGNAGE/GRAFICS	●	●	●	●	●	CONTACT: IDX
BANNER RODS	●	●	●	●	●	SEE PLAN
MICROWAVE/REFRIGERATOR	●	●	●	●	●	SEE PLAN
TELEVISION	●	●	●	●	●	CONTACT: BEAT USA
FRAMED BULLETIN BOARDS / FRAMED DRY ERASE BOARDS	●	●	●	●	●	SEE PLAN
LOCKERS	●	●	●	●	●	SEE PLAN
SAFE	●	●	●	●	●	SEE PLAN
LOOSE STOCK ROOM EQUIPMENT/FURNITURE	●	●	●	●	●	SEE PLAN
MECHANICAL						
PLUMBING FIXTURES	●	●	●	●	●	SEE PLAN
WATER HEATER	●	●	●	●	●	SEE PLAN
PLUMBING PIPING/VALVES/HARDWARE	●	●	●	●	●	SEE SPRINKLER DRAWINGS (BY OTHERS)
SPRINKLER HEADS/PIPE DROPS	●	●	●	●	●	SEE SPRINKLER DRAWINGS (BY OTHERS)
SPRINKLER MAIN/BRANCH PIPING	●	●	●	●	●	SEE SPRINKLER DRAWINGS (BY OTHERS)
HVAC DIFFUSERS/GRILLES/EXHAUST FANS	●	●	●	●	●	SEE HVAC DRAWINGS
HVAC DUCTWORK/CONTROLS	●	●	●	●	●	SEE HVAC DRAWINGS
HVAC UNITS	●	●	●	●	●	GC TO COMPLETE FULL SERVICE
ELECTRICAL						
SALES AREA/VESTIBULE LIGHT FIXTURES	●	●	●	●	●	CONTACT: CITY LIGHTING
STOCK ROOM/OFFICE LIGHT FIXTURES	●	●	●	●	●	CONTACT: CITY LIGHTING
TOILET ROOM LIGHT FIXTURES	●	●	●	●	●	CONTACT: CITY LIGHTING
ELECTRICAL RECEPTACLES/WIRING/CONDUIT/CONTROLS	●	●	●	●	●	SEE PLAN
ELECTRICAL CONNECTIONS TO DISPLAY FIXTURES	●	●	●	●	●	SEE PLAN
ELECTRICAL PANELS/TRANSFORMERS/DISCONNECTS	●	●	●	●	●	SEE PLAN
ELECTRIC SERVICE/METER	●	●	●	●	●	SEE PLAN
AV SYSTEM/COMPONENTS	●	●	●	●	●	CONTACT: BEAT USA
POS SYSTEM	●	●	●	●	●	CONTACT: PANDORA - TJ TAURISANO (tjtaurisano@pandora.net)
FIRE ALARM DEVICES/WIRING	●	●	●	●	●	SEE FIRE ALARM DRAWINGS (BY OTHERS)
TELEPHONE/DATA WIRING & RECEPTACLES	●	●	●	●	●	CONTRACTOR TO COORDINATE WITH COMWORKS NEW ERA
SECURITY ALARM AND CAMERA SYSTEM	●	●	●	●	●	CONTACT: SECURITAS ELECTRONIC SECURITY
TRAFFIC COUNTER SYSTEM	●	●	●	●	●	CONTACT: SHOPPER TRACK; ROUGH-IN BY TENANT CONTRACTOR

REFERENCE SYMBOL LEGEND

ROOM NAME	ROOM NAME	PLAN DRAWING	SECTION DRAWING	
DOOR NUMBER	00	FLOOR TRANSITION DETAIL	KEYED NOTE	
WALL TYPE		VERTICAL BENCHMARK	OBJECT ELEVATION	
ELEVATION DRAWING	0	FINISH	X-0	ROOM FINISH LEGEND

PANDORA

PUYALLUP, WA

SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA

SPACE #305

PROJECT DIRECTORY

PANDORA
CONTACT: RYAN VAUGHN
250 W. PRATT STREET
BALTIMORE, MD 21201
PHONE: 850-896-4121
EMAIL: rvaughn@on-sitegroup.com

ARCHITECT
NORR LLC
CONTACT: MELISSA SCHLOSSER
150 W. JEFFERSON AVE.
DETROIT, MI 48226
PHONE: 313-426-9705

M/E/P ENGINEER
NORR LLC
CONTACT: MELISSA SCHLOSSER
150 W. JEFFERSON AVE.
DETROIT, MI 48226
PHONE: 313-426-9705

SIGN VENDOR
TRIANGLE SIGN
CONTACT: BRENDA HOGAN
114 MARKET ST.
BALTIMORE, MD 21227
EMAIL: Brenda.Hogan@trianglesign.com
PHONE: 657-789-1792

FURNITURE/fixture VENDOR
IDX CORPORATION
BARB BIERLY
EMAIL: Barb.Bierly@idxcorporation.com
idxpandora@idxcorporation.com
PHONE: 937-401-3626

LIGHTING VENDOR
CITY LIGHTING PRODUCTS
CONTACT: KYLE SCHUCHARDT
204 DOUGLAS RD. SEWICKLEY, PA 15143
EMAIL: kschuchardt@citylighting.com
PHONE: 314-300-2319

TRAFFIC COUNTER VENDOR
SHOPPER TRAK
CONTACT: DIONTE SHEARS
EMAIL: Dionte.shears@shoppertrak.com
PHONE: 312-529-5333

TELEPHONE/DATA VENDOR
NEW ERA TECHNOLOGY
CONTACT: SUSAN EDMAN
EMAIL: Susan.Edman@neweratech.com
PHONE: 763-795-7119

AUDIO/VIDEO VENDOR
BEAT USA
CONTACT: SEBASTIAN STEENBUCH
PHONE: 302-200-4605
EMAIL: pandora@beat.dk

BARRICADE VENDOR
BOSTON RETAIL SERVICES
CONTACT: ALEXA LOPEZ-MULLAN
EMAIL: alexa.lopez-mullan@bostonsr.com
PHONE: 772-257-7307

SECURITY VENDOR
SECURITAS ELECTRONIC TECHNOLOGY
CONTACT: THERESA MCQUILLEN
EMAIL: theresa.mcquillen@secutair.com
PHONE: 331-688-1966

WAREHOUSE VENDOR
FRY-WAGNER SYSTEMS, INC
CONTACT: JEFFREY ROBERTSON
3700 RIDGE TRAIL, SOUTH
EARTH CITY, MO 63045
EMAIL: jrobertson@fy-wagner.com
PHONE: 636-734-2746

SAFE VENDOR
BRINKS
CONTACT: TROY LITTLE
PHONE: 704-301-0439
EMAIL: troy.little@brinksinc.com

FLOORING & TILE
TRINITY SURFACES
CONTACT: JEANEMARIE ANZENBERGER
PHONE: 666-774-3390 x2215
EMAIL: janzenberger@trinitysurfaces.com

ABBREVIATIONS

AFF AHU ALUM BD BLDG CJ CLG COL CONT CPT CT CAL DBL DF DIA DIM EA ELEC EL EQ EXIST EXTERIOR FA FD FE GALV GYP HC HDW HM HVAC INFO INT LAV MAS MAX MECH MIN MTL N/A NT'S OC OPNG OPP PLBG PLYWD PREFAB PT QT R REF REINF REQ RO SC SIM SS STL SUSP T TELEPHONE UNO VB VCT VERT WC WD W/

ABOVE FINISHED FLOOR
AIR HANDLING UNIT
ALUMINUM BOARD
BUILDING
CONTROL JOINT
CEILING
COLUMN
CONCRETE
CONTINUOUS
CARTON
CERAMIC TILE
CENTERLINE
DOUBLE
DRINKING FOUNTAIN
DIAMETER
DIMENSION
DOWN
EACH
ELECTRICAL
ELEVATION
EQUIPMENT
EXISTING
EXTERIOR
FIRE ALARM
FLOOR DRAIN
FIRE EXTINGUISHER
GALVANIZED
GYPSUM
HANDICAPPED/HOLLOW
CORE
HARDWARE
HOLLOW METAL
HEAT & VENTILATION, &
AIR CONDITIONING
INFORMATION
INSULATION
INTERIOR
INTERIOR
LAVATORY
MASONRY
MAXIMUM
MECHANICAL
MINIMUM
METAL
NOT APPLICABLE
NOT TO CONTRACT
NOT TO SCALE
ON CENTER
OPENING
OPPOSITE
PLUMBING
PLYWOOD
PREFABRICATED
PAINT
QUARRY TILE
RADIUS/RISER
REFERENCE
REINFORCE /
REINFORCING
REQUIRE
ROUGH OPENING
SOLID CORE
SIMILAR
SPECIFICATION
STAINLESS STEEL/SOLID
SURFACE
STEEL
SUSPENDED
TREAD
TELEPHONE
TYPICAL
UNLESS NOTED
OTHERWISE
VINYL BASE
VINYL COMPOSITION TILE
VERTICAL
WATER CLOSET/WALL
COVERING
WOOD
WITH

CODE DATA

LEASE AREA: 905 SF

APPLICABLE CODES:

BUILD

DEMOLITION AND CEILING FIXTURE LEGEND

SYMBOL	DESCRIPTION
	EXISTING DIFFUSER TO REMAIN
	EXISTING GRILLE TO REMAIN
	EXISTING EXHAUST FAN TO REMAIN
	EXISTING SPRINKLER HEAD
	EXISTING SURFACE MOUNTED LIGHTING TRACK
	EXISTING SURFACE MOUNTED TO BE DEMOLISHED
	EXISTING BOH PENDANT LIGHT TO REMAIN
	EXISTING 2X2 CEILING LIGHTS TO REMAIN
	EXISTING 2X2 CEILING LIGHTS TO BE DEMOLISHED
	EXISTING TRACKLIGHTS AND DOWNLIGHTS TO BE DEMOLISHED
	EXISTING DOOR TO REMAIN
	EXISTING FIXTURES TO BE REMOVED

KEYED NOTES

1 NOT USED
 2 EXISTING DOOR AND FRAME TO REMAIN
 3 NOT USED
 4 EXISTING PLUMBING FIXTURE TO REMAIN
 5 NOT USED
 6 EXISTING ELECTRICAL EQUIPMENT TO REMAIN
 7 EXISTING PIER TO REMAIN
 8 NOT USED
 9 EXISTING DEMISING WALL TO REMAIN (MAINTAIN INTEGRITY OF FIRE RATING)
 10 EXISTING WALL TO BE REMOVED - COORDINATE WITH CONSTRUCTION FLOOR PLAN FOR EXTENTS
 11 EXISTING SUSPENDED ACOUSTICAL PANEL CEILING TO BE REMOVED
 12 EXISTING GYPSUM DRYWALL CEILING TO BE REMOVED
 13 EXISTING GYPSUM DRYWALL CEILING TO REMAIN
 14 EXISTING GYPSUM DRYWALL SOFFIT/BULKHEAD TO REMAIN - REFER TO EXTERIOR ELEVATIONS FOR MORE INFO
 15 EXISTING LIGHT FIXTURE TO BE REMOVED
 16 EXISTING LIGHT FIXTURE TO REMAIN, REPAIR EXISTING DIFFUSER COVER
 17 EXISTING HVAC DIFFUSER/GRILLE TO BE REMOVED
 18 EXISTING HVAC DIFFUSER/GRILLE TO REMAIN
 19 EXISTING SUSPENDED ACOUSTICAL PANEL CEILING TO REMAIN
 20 EXISTING EXHAUST FAN TO REMAIN
 21 EXISTING EXIT SIGN TO BE REMOVED, SALVAGED AND RELOCATED TO FACE OF NEW ADJACENT SOFFIT
 22 EXISTING TRACK LIGHTING, INCLUDING TRACK AND LIGHTS, TO BE REMOVED
 23 EXISTING EMERGENCY LIGHT TO REMAIN
 24 NOT USED
 25 NOT USED
 26 EXISTING FLOORING TO BE REMOVED
 27 EXISTING FLOORING TO REMAIN
 28 EXISTING FIRE EXTINGUISHER TO REMAIN
 29 EXISTING SECURITY ROLLING GRILLE AND ATTACHMENT TO REMAIN
 30 NOT USED
 31 NOT USED
 32 NOT USED
 33 NOT USED
 34 NOT USED
 35 EXISTING TOILET TO BE REMOVED. SEE PLANS FOR REPLACEMENT
 36 NOT USED
 37 EXISTING STOREFRONT GLAZING/FRAMING TO REMAIN

GENERAL NOTES

- CONSTRUCTION INDICATED BY SOLID LINES IS TO REMAIN; CONSTRUCTION INDICATED BY DASHED LINES IS TO BE REMOVED.
- ALL EXISTING WALL FINISHES ARE TO BE REMOVED, AND SURFACES ARE TO BE PREPARED FOR NEW FINISH, EXCEPT AS INDICATED OTHERWISE.
- ALL EXISTING FLOOR FINISHES ARE TO BE REMOVED, AND SURFACES ARE TO BE PREPARED FOR NEW FINISH, EXCEPT AS INDICATED OTHERWISE.
- EXISTING SPRINKLER SYSTEM IS TO BE MODIFIED AS REQUIRED AND AS DESIGNED BY LICENSED SPRINKLER DESIGNER/CONTRACTOR.
- TENANT CONTRACTOR IS TO VISIT SITE PRIOR TO SUBMISSION OF BID TO IDENTIFY SCOPE OF MISCELLANEOUS DEMOLITION.
- ALL EXISTING ABANDONED CONSTRUCTION, INCLUDING HVAC EQUIPMENT AND DUCTWORK, PLUMBING PIPING, AND ELECTRICAL EQUIPMENT AND WIRING, IS TO BE REMOVED. SEE M/E/P DRAWINGS FOR ADDITIONAL INFORMATION.
- ALL EXISTING WALL BASE IS TO BE REMOVED, AND SURFACES ARE TO BE PREPARED FOR NEW BASE, EXCEPT AS INDICATED OTHERWISE.
- ALL EXISTING FINISHES INDICATED TO REMAIN ARE TO BE REPAIRED AS NECESSARY AND THOROUGHLY CLEANED.
- ALL EXISTING LIGHT FIXTURES THAT ARE TO REMAIN ARE TO BE RE-LAMPED WITH LED LAMPS AND BROUGHT TO "LIKE-NEW" CONDITION.
- ALL EXISTING FIXTURES AND ACCESSORIES THAT ARE TO REMAIN ARE TO BE BROUGHT TO "LIKE-NEW" CONDITION.
- GC TO REPLACE HOT WATER HEATER.

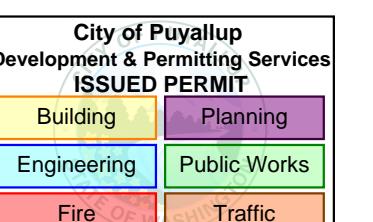
DATE	ISSUED FOR	REV
09/26/2025	CLIENT REVIEW	
10/13/2025	PERMIT SET	
11/13/25	BID SET	A
12/04/25	ADDENDUM 1	B

PRCT120251416

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Project Component



Consultants

Architecture: NORR
Mechanical: NORR
Electrical: NORR

Seal(s)

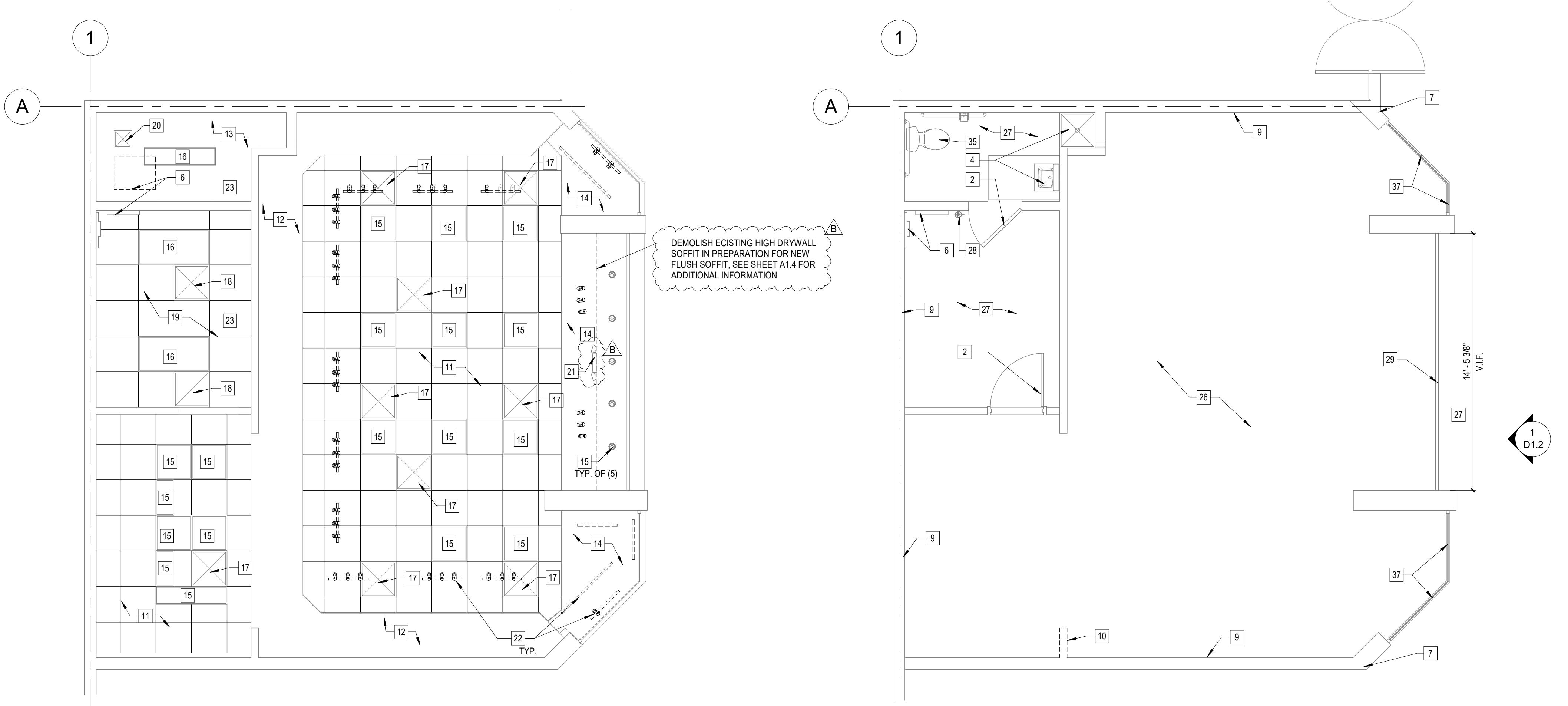
**NORR**150 W. Jefferson Avenue., Suite 1300
Detroit, MI, US 48226
norr.comProject Manager M. SCHLOSSER Drawn Z. HONEINI
Project Leader M. SCHLOSSER Checked J. MARJIClient **PANDORA**Project **PUYALLUP, WA**

SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA

Drawing Title **DEMOLITION PLANS**

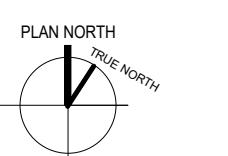
Scale 1/4" = 1'-0"

Project No. RT2025-0388-99

Drawing No. **D1.1**

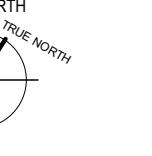
DEMOLITION CEILING PLAN

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



DEMOLITION FLOOR PLAN

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



			DATE	ISSUED FOR	REV								
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			10/13/2025	PERMIT SET									
			11/13/25	BID SET	A								
			12/04/25	ADDENDUM 1	B								
<p>KEYED NOTES</p> <p>[1] EXISTING GLAZING TO REMAIN [2] EXISTING GRILLE TO REMAIN</p>			<p>GENERAL NOTES</p> <p>1. CONSTRUCTION INDICATED BY SOLID LINES IS TO REMAIN; CONSTRUCTION INDICATED BY DASHED LINES IS TO BE REMOVED. 2. TENANT CONTRACTOR IS TO VISIT SITE PRIOR TO SUBMISSION OF BID TO IDENTIFY SCOPE OF MISCELLANEOUS DEMOLITION. 3. ALL EXISTING FINISHES INDICATED TO REMAIN ARE TO BE REPAIRED AS NECESSARY AND THOROUGHLY CLEANED.</p>										
			4										
			<p>PRCT120251416</p> <p>This drawing has been prepared solely for the use of PANDORA and there are no representations of any kind made by</p>										
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			<p>Project Component</p> <p>City of Puyallup Development & Permitting Services ISSUED PERMIT</p> <table border="1"> <tr> <td>Building</td> <td>Planning</td> </tr> <tr> <td>Engineering</td> <td>Public Works</td> </tr> <tr> <td>Fire</td> <td>SWD</td> </tr> <tr> <td>Traffic</td> <td></td> </tr> </table>			Building	Planning	Engineering	Public Works	Fire	SWD	Traffic	
Building	Planning												
Engineering	Public Works												
Fire	SWD												
Traffic													
			<p>Consultants</p> <p>Architecture: NORR Mechanical: NORR Electrical: NORR</p>										
			<p>Seal(s)</p> <p>21009100 REGISTERED ARCHITECT ANTHONY RICCUTI STATE OF WASHINGTON 12-05-2025</p>										
			<p>NORR</p> <p>150 W. Jefferson Avenue., Suite 1300 Detroit, MI, US 48226 norr.com</p>										
			<p>Project Manager M. SCHLOSSER Drawn Z. HONEINI</p> <p>Project Leader M. SCHLOSSER Checked J. MARJI</p> <p>Client PANDORA</p>										
			<p>Project PUYALLUP, WA</p> <p>SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA</p> <p>Drawing Title DEMOLITION STOREFRONT & BARRICADE ELEVATIONS</p>										
			<p>Scale 3/8" = 1'-0" Project No. RT2025-0388-99 Drawing No. D1.2</p>										
			<p>Autodesk Drawings/Pandora - WA Puyallup - South Hill Mall RT2025-0388_PandoraDraw2025-0388_Title.dwg</p>										
E	D	C	B	A									
<p>1 DEMOLITION STOREFRONT - ELEVATION</p> <p>SCALE: 3/8" = 1'-0"</p>													

DATE	ISSUED FOR	REV
09/26/2025	CLIENT REVIEW	
10/13/2025	PERMIT SET	
11/13/25	BID SET	A
12/04/25	ADDENDUM 1	B

GENERAL NOTES

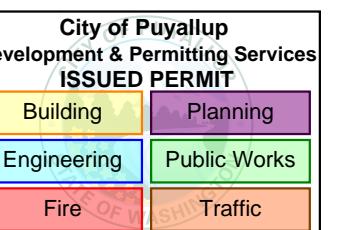
- ALL DIMENSIONS INDICATED ON PLAN ARE TO BE CONFIRMED AND MARKED ON PLAN.
- ALL EXISTING OVERHEAD ITEMS TO REMAIN WHICH ARE BELOW 14'-0" AFF ARE TO BE IDENTIFIED AND GRAPHICALLY INDICATED ON PLAN.
- CONDITION OF ALL EXISTING WALLS, SLABS, CEILINGS/SOFFITS, DOORS, GLAZING, FIXTURES, EQUIPMENT, AND FINISHES WHICH ARE TO REMAIN ARE TO BE INSPECTED AND ANY DEFICIENCIES INDICATED ON PLAN.
- CONDITION AND FUNCTIONALITY OF ALL EXISTING MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEM EQUIPMENT AND FIXTURES REMAINING ARE TO BE INSPECTED AND ANY DEFICIENCIES INDICATED ON PLAN.
- ANY ITEMS OR OBSTRUCTIONS NOT ON PLAN OR INDICATED TO BE REMOVED ON DEMOLITION PLANS ARE TO BE IDENTIFIED AND INDICATED ON PLAN.
- GC TO VERIFY FLOOR IS LEVEL AFTER FLOORING IS DEMOLISHED. TOLERANCE MUST BE WITHIN 1/8" OVER 10'-0". NOTIFY PANDORA OM IMMEDIATELY IF NOT IN COMPLIANCE W/ PANDORA STANDARDS.

PRCT120251416

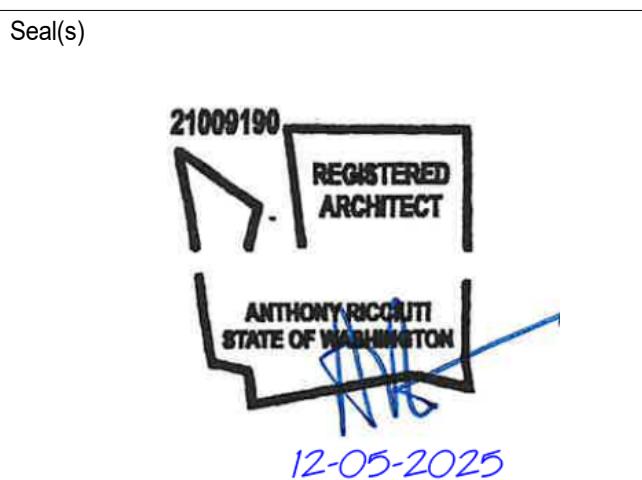
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Project Component



3
Consultants
Architecture: NORR
Mechanical: NORR
Electrical: NORR



NORR

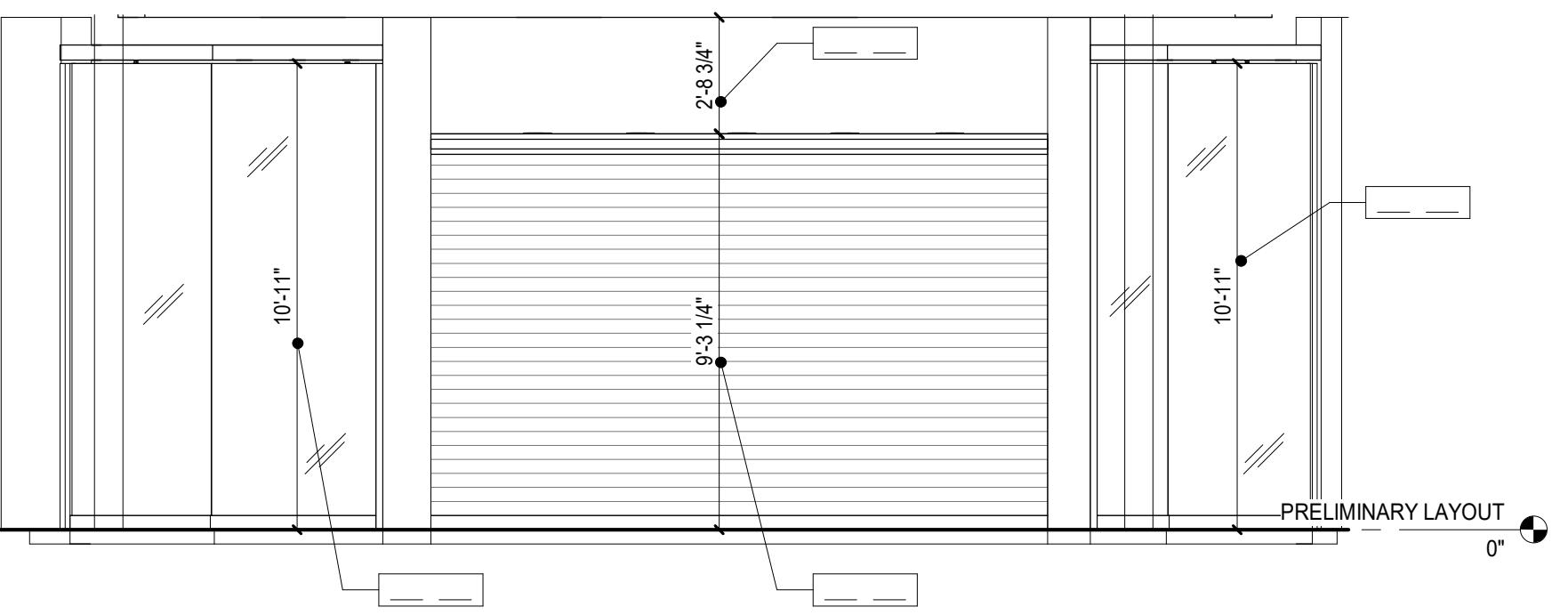
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Client PANDORA

Project PUYALLUP, WA

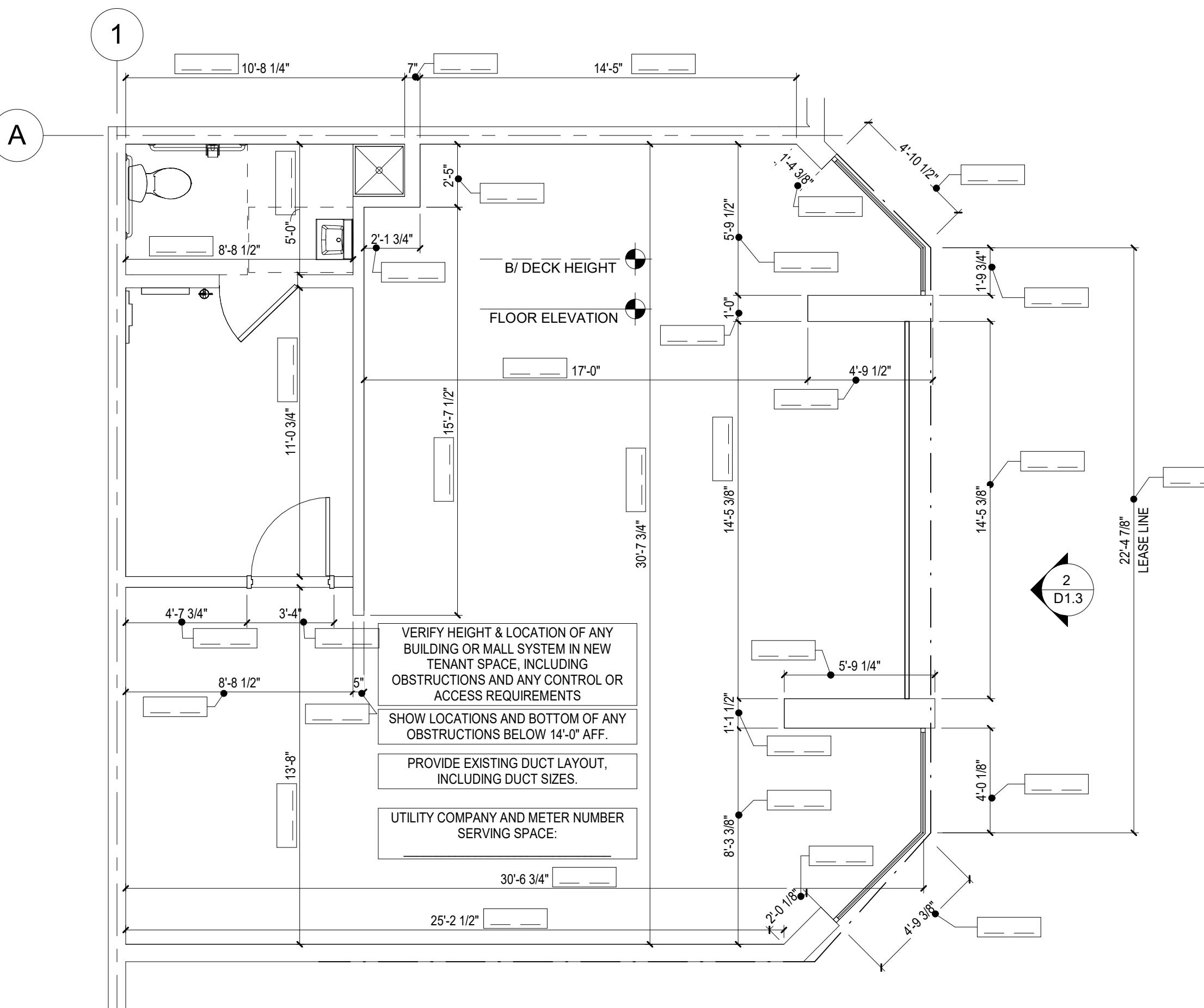
SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA
Drawing Title FIELD VERIFICATION PLAN & ELEVATION

Scale 1/4" = 1'-0"
Project No. RT2025-0388-99
Drawing No. D1.3



FIELD VERIFICATION ELEVATION

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



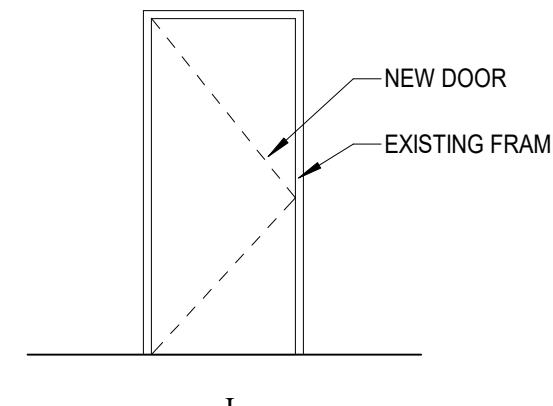
DOOR SCHEDULE

ITEM	DOOR SIZE	DOOR TYPE	DOOR MATL	FRAME MATL	JAMB DETAIL	HEAD DETAIL	HDWARE SET	NOTES
01	--	--	--	--	--	--	--	EXISTING ROLLING DOOR
02	36" x 84" x 1 3/4"	I	WD-SC	HM	1/A4.2	2/A4.2	B	
03	36" x 84" x 1 3/4"	--	WD-SC	HM	--	--	EX	EXISTING DOOR/FRAME

DOOR HARDWARE SCHEDULE

SET	ITEM	QTY	MANUFACTURER	MODEL NUMBER	FINISH	NOTES
B	HINGE	4	HAGER	BB1279	626	4 1/2" x 4 1/2"; FULL MORTISE; FULLY CONCEALED FROM SALES AREA
	CLOSER	1	LCN	4040XP	AL	HOLD-OPEN ARM; MOUNTED ON STOCKROOM SIDE
	LOCK SET	1	ACCENTRA	B-AU-NTB623-NR	626	40" AFF TO CENTER OF CYLINDER
	KICK PLATE	1	IVES	8400 12" X 34"	CLEAR	ON STOCKROOM SIDE
C	HINGE	3	HAGER	BB1279	626	4 1/2" X 4 1/2"
	LATCH SET	1	SCHLAGE	ND40S-ATH	626	40" AFF TO CENTER OF CYLINDER
	CLOSER	1	LCN	4040XP	AL	MOUNTED ON RESTROOM SIDE
	KICK PLATE	1	IVES	8400 12" X 34"	CLEAR	ON PUSH SIDE OF DOOR
	ALL OTHER HARDWARE AT THIS DOOR IS EXISTING TO REMAIN					

** NOTE: GENERAL CONTRACTOR IS TO REPLACE ALL LOCK CYLINDER CORES WITH BEST 7-PIN CORES, AND PROVIDE 8 KEYS PLUS A CONTROL KEY **



1 DOOR TYPES

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

KEYED NOTES

- 1 EXISTING LAVATORY
- 2 NEW PRESSURE-ASSIST WATER CLOSET; FLOOR SET, TANK TYPE, AMERICAN STANDARD "CADET RIGHT HEIGHT" PRESSURE-ASSISTED 2467.016 (WHITE FINISH) WITH OPEN FRONT WHITE SEAT LESS COVER. 1.6 GPF. MEETS ADA GUIDELINES.
- 3 NOT USED
- 4 EXISTING ELECTRICAL GEAR
- 5 EXISTING STOREFRONT GLAZING/FRAMING
- 6 EXISTING GRILLE
- 7 EXISTING UTILITY SINK
- 8 PLYWOOD FIRE RATED BLOCKING BETWEEN STUDS FROM FINISH FLOOR TO TOP OF WALL, 36" WIDE CENTERED BEHIND MIRROR (PMR)
- 9 FACE OF WALL TO BE FLUSH WITH FACE OF EXISTING WALL
- 10 SHADOW GAP TO SEPARATE TWO FINISHES
- 11 NEW FIRE EXTINGUISHER

GENERAL NOTES

1. TENANT CONTRACTOR IS TO VISIT SITE PRIOR TO SUBMISSION OF BID TO IDENTIFY SCOPE OF MISCELLANEOUS DEMOLITION.
2. ALL EXISTING ABANDONED CONSTRUCTION, INCLUDING HVAC EQUIPMENT AND DUCTWORK, PLUMBING PIPING, AND ELECTRICAL EQUIPMENT AND WIRING, IS TO BE REMOVED. SEE M/E/P DRAWINGS FOR ADDITIONAL INFORMATION.
3. WALL TYPE NUMBERS REFERENCE WALL TYPE SECTIONS ON A4.1.
4. CONCEALED FIRE RATED BLOCKING IS TO BE PROVIDED WITHIN WALL AT ALL WALL-MOUNTED FIXTURES AND EQUIPMENT.

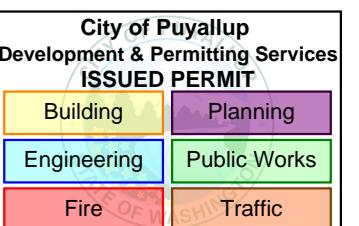
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Project Component



Consultants

Architecture: NORR
Mechanical: NORR
Electrical: NORR

Seal(s)



NORR

150 W. Jefferson Avenue, Suite 1300
Detroit, MI, US 48226
norr.com

Project Manager M. SCHLOSSER Drawn Z. HONEINI
Project Leader M. SCHLOSSER Checked J. MARJI

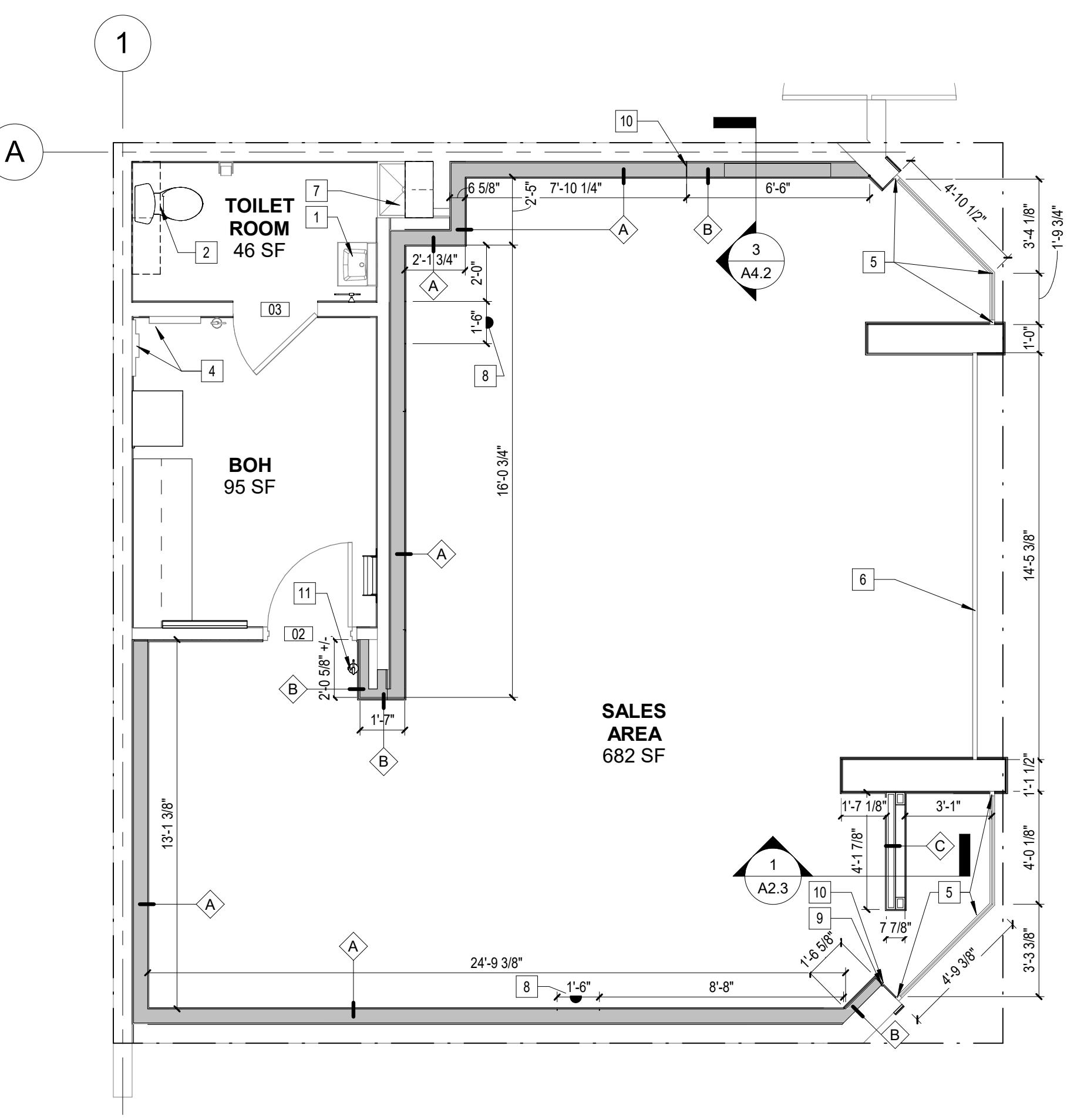
Client PANDORA

Project PUYALLUP, WA

SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA

Drawing Title FLOOR CONSTRUCTION PLAN

Scale As indicated
Project No. RT2025-0388-99
Drawing No. A1.1



FINISH SPECIFICATIONS

ITEM	DESCRIPTION	MANUFACTURER	PRODUCT/MODEL	FINISH/COLOR	SIZE	NOTES
ACT-1	ACOUSTICAL PANEL CEILING	USG	RADAR CLIMA PLUS 2410	WHITE	24" X 48"	USG DOWN BRAND DX 24 SUSPENSION SYSTEM WITH STANDARD ACCESSORY TRIM
FRP-1	FIBER REINFORCED PANEL	MARLITE	STANDARD FRP			
GRT-1	GROUT	MAPEI	ULTRA COLOR PLUS GROUT	93 WARM GRAY	--	GROUT FOR TIL-1/TIL-2; 1/8" JOINTS; SALES AREA FLOOR/STOREFRONT FAÇADE/FIXTURE BASE
LVT-1	LUXURY VINYL TILE	AVA	2TRZO_TER015	LIGHT GREY TERRAZZO	36" X 36"	SALES AREA FLOOR STOREFRONT FINISH
MTL-2	CUSTOM METAL PANELS			NCS S0540-R		
PNT-1	TEXTURED PLASTER PAINT	SHERWIN WILLIAMS	DURATION	SW7013 IVORY LACE	--	SPRAY PROFORM EM USING HOPPER GUN WITH 3/16" NOZZLE, SPRAY DIRECTLY ONTO COMPLETED LEVEL 4 DRYWALL; AFTER CURED, PRIME CEILING AS NECESSARY, THEN APPLY 2 COATS OF SHERWIN WILLIAMS 'DURATION' MATTE FINISH
PNT-5	PAINT	SHERWIN WILLIAMS	SUPERPAINT ACRYLIC LATEX	SW7013 IVORY LACE	--	VESTIBULE CEILING/WOOD BASE/WALL MOUNTED FRAMES; EGGSHELL
PNT-6	PAINT	SHERWIN WILLIAMS	PRO INDUSTRIAL DTM ACRYLIC	TO MATCH RAL 9004	--	STOREFRONT METAL TRIM
PNT-7	PAINT	SHERWIN WILLIAMS	SUPERPAINT ACRYLIC LATEX	SW7077 ORIGINAL WHITE	--	BOH WALLS/CEILING/DOORS; EGGSHELL
PNT-7	Insulated Steel Door Panel					
PNT-9	SEMI-TEXTURED PLASTER PAINT	BEHR	DYNASTY	P170-3 INFATUATION	--	PORCH, FLOOR & PATIO TEXTURED PAINT AS PRIMER, 2 COATS THEN LIGHTLY SAND; THEN APPLY 2 COATS OF BEHR DYNASTY MATTE PAINT
PNT-9.1	PAINT	BEHR	DYNASTY	P170-3 INFATUATION	--	ENTRY SOFFIT & WALLS
RUB-1	RUBBER BASE	ARMSTRONG	R41GM	GRAY MIST	4"	BOH
WDB-1	WOOD BASE	--	--	PNT-5	2" X 1/2"	FLAT FACE; SQUARE TOP; PRE-PRIMED; FIELD FINISHED
WDB-2	WOOD BASE	--	--	PNT-9.1	2" X 1/2"	FLAT FACE; SQUARE TOP; PRE-PRIMED; FIELD FINISHED

KEYED NOTES

- 1 MALL FLOORING (EXTEND OR MODIFY AS REQUIRED FOR FLOOR TRANSITION DETAIL)
- 2 FULL TILE STARTING POINT FOR FLOOR TILE PATTERN
- 3 WATERPROOF MEMBRANE UNDERLayment BELOW FLOORING (TURNED UP 6" AT WALLS)
- 4 NOT USED
- 5 SIDES AND REAR OF DISPLAY TV NICHE TO BE PAINTED PNT-5
- 6 ALUMINUM SKIRT TO BE ADDED TO FIXTURES
- 7 NOT USED
- 8 ALL EXPOSED FACES OF EXISTING METAL STOREFRONT FRAMES TO BE PAINTED PNT-6
- 9 ADHERED METAL TRIM
- 10 PNT-5 ON DOOR AND TRIM SIDE FACING SALES FLOOR
- 11 SHADOW GAP, SEE SHEET A1.1

GENERAL NOTES

1. ALL EXISTING WALL AND BASE FINISHES ARE TO BE REMOVED, AND SURFACES ARE TO BE PREPARED FOR NEW FINISH, EXCEPT AS INDICATED OTHERWISE.
2. ALL EXISTING FLOOR FINISHES ARE TO BE REMOVED, AND SURFACES ARE TO BE PREPARED FOR NEW FINISH, EXCEPT AS INDICATED OTHERWISE.
3. ALL EXISTING FINISHES WHICH ARE TO REMAIN ARE TO BE REPAIRED AS NECESSARY AND CLEANED THROUGHLY.
4. FLOOR TRANSITION NUMBERS (X) REFERENCE FLOOR TRANSITION DETAILS ON SHEET A4.1.
5. PAINT SHEENS ARE AS FOLLOWS:
WALLS - EGGSHELL/MATTE
CEILINGS/SOFFITS - FLAT
DOORS/TRIM - SEMI-GLOSS
6. SEE REFLECTED CEILING PLAN FOR CEILING FINISH TRANSITION LOCATIONS
7. SEE INTERIOR ELEVATIONS FOR WALL FINISH TRANSITION LOCATIONS.

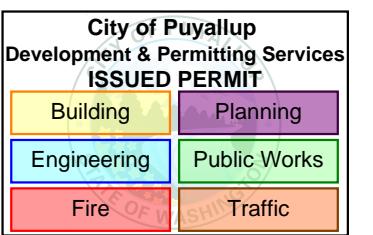
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Consultants

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Mechanical: NORR
Electrical: NORR

Seal(s)



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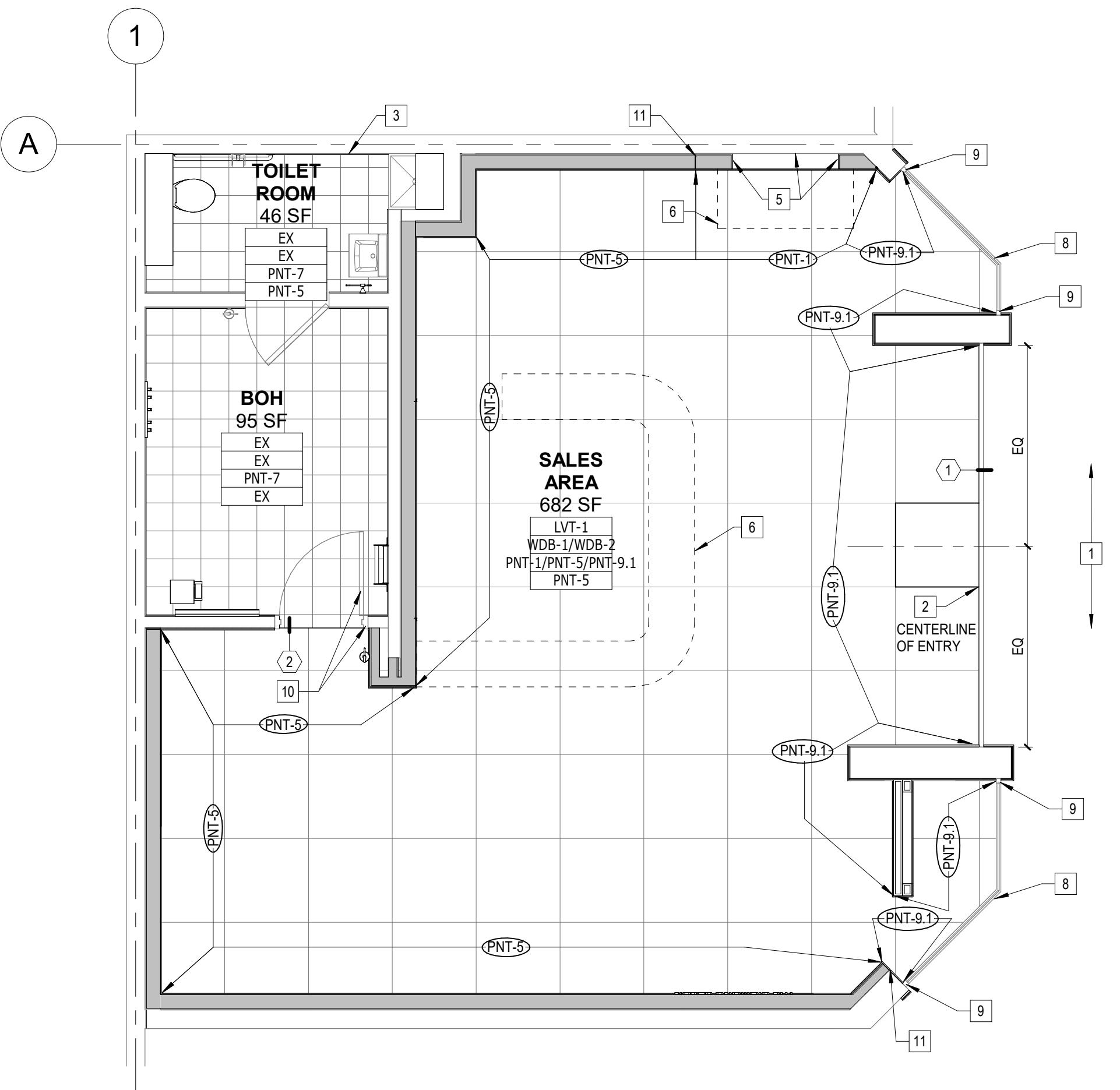
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norr.com

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Project Leader M. SCHLOSSER Checked J. MARJI
Client PANDORA

Project PUYALLUP, WA

SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA
Drawing Title FLOOR FINISHES PLAN

Scale 1/4" = 1'-0"
Project No. RT2025-0388-99
Drawing No. A1.3



FLOOR FINISHES PLAN

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

PLAN NORTH

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	ITEM NUMBER	LAMP	VOLTAGE	WATTS	NOTES
A	BOH EMERGENCY - WALL MOUNTED	MORRIS	73424	LED	120/277	2.8	BACK OF HOUSE EMERGENCY LIGHTING
B	2x4 LAY-IN	TRACELITE	TRALPX24CP4	LED	120/277	45	BACK OF HOUSE GENERAL LIGHTING
B2X2	2X2 LAY-IN	TRACELITE	TRALPX22CP4	LED	120/277	20	BACK OF HOUSE GENERAL LIGHTING
C	SALES AREA EMERGENCY - FLUSH CEILING	CONSEALITE	F5000-LED3-90-PT (HARD LID) FOR TRBAR CHANGE SUFFIX TO TB	LED	120/277	6	SALES AREA EMERGENCY
D	EXIT - WALL MOUNTED	SURELITE	SURAPX7RG	LED	120/277	3	
E	EXIT - CEILING RECESSED	EXTRONIX	S902-WB-SR-RC-WH	LED	120/277	3	
F	DOWNLIGHT	HERA	CRE105/WH/3500/09/15	LED	120/277	12	RECESSED ROUND DOWNLIGHT SEMI-GLOSS WHITE
H	DOWNLIGHT	HERA	CRE105/GY/3500/09/15	LED	120/277	24	RECESSED ROUND DOWNLIGHT SEMI-GLOSS SILVER GREY
J	SPOT	HERA	HCT/SPOT/BL/3500/18/9-1000 LUMENS	LED	120	9	ROOM HEIGHT <10'-0"; TRACK MOUNTED (SEE CEILING PLAN FOR TRACK SPEC)
K	SPOT	HERA	HCT/SPOT/BL/3500/18/20-1855 LUMENS	LED	120	20	ROOM HEIGHT ≥10'-0"; TRACK MOUNTED (SEE CEILING PLAN FOR TRACK SPEC)
M	LED TAPE	HERA	TAPE/C12/1963500/PC79WH DRIVER - PS24V/96/DIM/S/D	LED	24	16	WITH 1" X 1" ANGLE REFLECTOR- BY VENDOR
N	SCONCE	PROGRESS LIGHTING	P3111-30	LED	18	-	
P	DOWNLIGHT	SOLAIS	XFR11XM24/15C/35K/1600/WH/WH	LED	120	18	
Q	SPOT	SOLAIS	LCN-1-NSP-9-35-700-BK-J	LED	120	8	

LINE VOLTAGE TRACK SYSTEM SPECIFICATIONS

COMPONENT	MANUFACTURER	MODEL NUMBER	MOUNTING	FINISH/COLOR	VOLTAGE
2' TRACK	HERA	HCT/STRACK24/BL	SURFACE	BLACK	120
4' TRACK	HERA	HCT/STRACK48/BL	SURFACE	BLACK	120
8' TRACK	HERA	HCT/STRACK96/BL	SURFACE	BLACK	120
STRAIGHT CONNECTOR	HERA	HTC/SC/BL	SURFACE	BLACK	120
LIVE END CONNECTOR	HERA	HCT/LE/BL	SURFACE	BLACK	120
END CAP	HERA	HCT/STEC/BL	--	BLACK	--

CEILING FIXTURE LEGEND

SYMBOL	DESCRIPTION	NOTES
	2x2' HVAC SUPPLY DIFFUSER	SEE MECHANICAL DRAWINGS; TITUS OMNI
	2x2' HVAC RETURN GRILLE	SEE MECHANICAL DRAWINGS; TITUS OMNI
	LINEAR SLOT HVAC SUPPLY DIFFUSER	SEE MECHANICAL DRAWINGS; TITUS FL
	LINEAR SLOT HVAC RETURN GRILLE	SEE MECHANICAL DRAWINGS; TITUS FL
	1x1' EXHAUST FAN	SEE MECHANICAL DRAWINGS
	SURFACE MOUNTED LIGHTING TRACK	SEE PLAN
	FLUSH LAY-IN FIBERGLASS ACCESS PANEL	PAINTED TO MATCH CEILING; SEE PLAN FOR SIZE

KEYED NOTES

1 SUSPENDED GYPSUM DRYWALL CEILING (HEIGHT AS INDICATED) 5/8" GYPSUM DRYWALL ON STEEL "TEE" MEMBERS @ 24" O.C. EACH WAY, SUSPENDED BY 12 GA. HANGER WIRES @ 48" EACH WAY. (USG DRYWALL SUSPENSION SYSTEM OR EQUAL).

2 NOT USED

3 EXISTING CEILING TO REMAIN

4 NOT USED

5 NOT USED

6 NOT USED

7 GYPSUM DRYWALL SOFFIT (HEIGHT AS INDICATED).

8 TRAFFIC COUNTER (PROVIDED BY TENANT VENDOR).

9 HVAC DIFFUSER/GRILLE (SEE MECHANICAL DRAWINGS).

10 INDIVIDUAL LETTER SIGN (SEE VENDOR SHOP DRAWINGS).

11 NOT USED

12 NOT USED

13 NOT USED

14 NOT USED

15 LIGHT COVE ABOVE (SEE DETAIL SHEET A4.2)

16 VERTICAL LED STRIP LIGHT BEHIND EDGE OF BRAND WALL FIXTURE

17 NOT USED

18 NEW EXIT SIGN

19 NEW ACCESS PANEL

20 NEW PENDANT LIGHT LOCATED ABOVE TAB.05 AT CENTER OF TABLE

GENERAL NOTES

1. SUSPENDED CEILING GRIDS ARE CENTERED BETWEEN PRIMARY BOUNDARY WALLS UNLESS INDICATED OTHERWISE.

2. TENANT CONTRACTOR IS TO VERIFY THAT FIELD CONDITIONS ACCOMMODATE ALL DIMENSIONS INDICATED, AND NOTIFY ARCHITECT OF ANY CONFLICTS BEFORE ORDERING VENDOR SUPPLIED ITEMS.

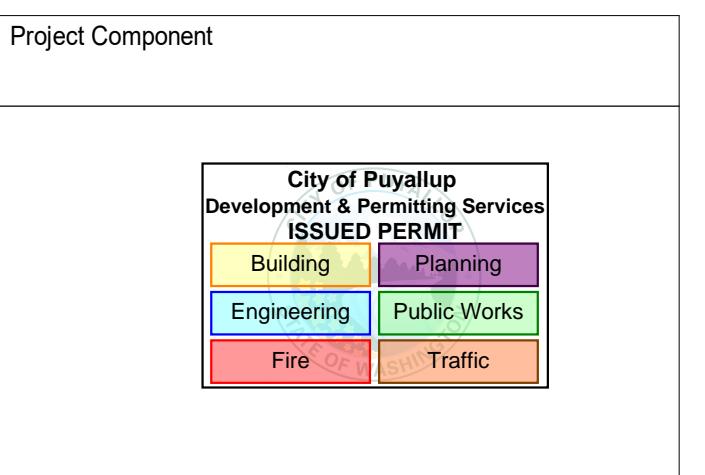
3. SPRINKLER HEADS ARE NOT INDICATED ON PLAN. MODIFICATIONS TO EXISTING FIRE SPRINKLER SYSTEM ARE TO BE DESIGNED BY LICENSED SPRINKLER DESIGNER, AND ARE TO COMPLY WITH ALL GOVERNING CODES. ALL NEW AND EXISTING FIRE SPRINKLER HEADS IN THE SALES AREA ARE TO BE CONCEALED-TYPE, WITH WHITE COVERS.

4. FLUSH PAINTED LAY-IN FIBERGLASS ACCESS PANELS ARE TO BE PROVIDED AS REQUIRED FOR MECHANICAL/ELECTRICAL EQUIPMENT ABOVE CEILING, LOCATED TO NOT CONFLICT WITH CEILING-MOUNTED FIXTURES/DEVICES.

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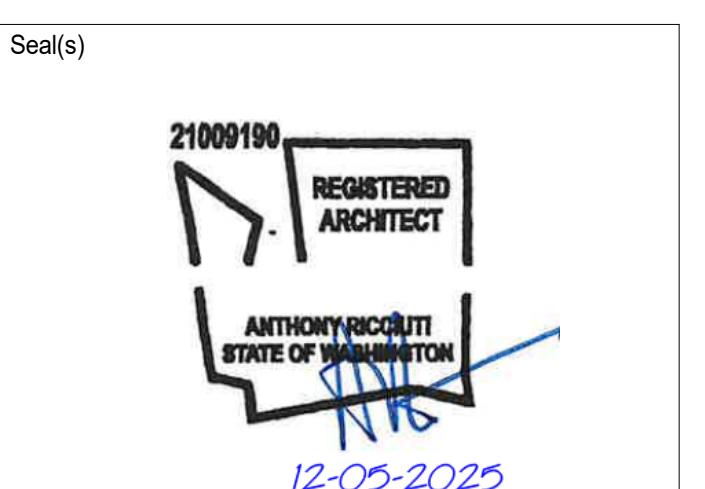
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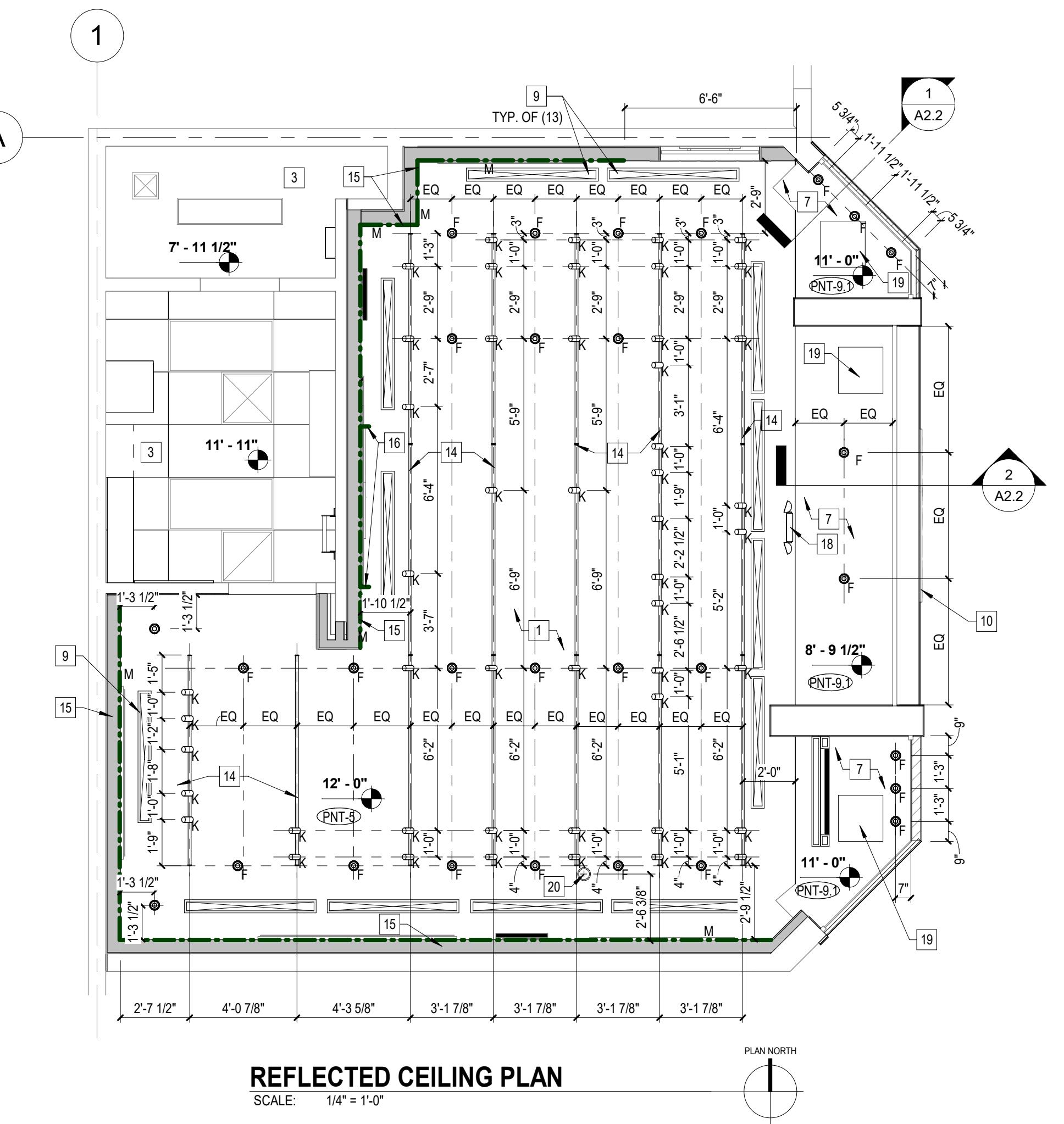


NORR
150 W. Jefferson Avenue, Suite 1300
Detroit, MI, US 48226
norr.com

Project Manager M. SCHLOSSER Drawn Z. HONEINI
Project Leader M. SCHLOSSER Checked J. MARJI
Client PANDORA

Project PUYALLUP, WA
SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA
Drawing Title REFLECTED CEILING PLAN

Scale As indicated
Project No. RT2025-0388-99
Drawing No. A.14
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KEYED NOTES

- 1 RECESSED FLOOR DUPLEX RECEPTACLE
- 2 RECESSED "CLOCK" FLOOR DUPLEX RECEPTACLE WITH SLOTTED COVER (BRUSHED ALUMINUM)
- 3 DUPLEX RECEPTACLE AT 26" AFF
- 4 NOT USED
- 5 JUNCTION BOX FOR STOREFRONT SIGN (ABOVE CEILING)
- 6 JUNCTION BOX FOR WALL SCONCE (ABOVE CEILING)
- 7 DUPLEX AND DATA RECEPTACLES FOR TV AT 69" AFF
- 8 RECESSED FLOOR MOUNTED DATA RECEPTACLE
- 9 DUPLEX RECEPTACLE AT 18" AFF
- 10 JUNCTION BOX FOR TRAFFIC COUNTER (ABOVE CEILING)
- 11 (2) QUADRUPLEX RECEPTACLE AT 79" AFF AND 84" AFF (FOR IT RACK)
- 12 GFI DUPLEX RECEPTACLE AT 36" AFF
- 13 JUNCTION BOX FOR CRO.XX IN LIGHT COVE ABOVE
- 14 NOT USED
- 15 QUADRUPLEX RECEPTACLE AT 36" AFF
- 16 QUADRUPLEX RECEPTACLE AT 48" AFF FOR SECURITY MONITOR
- 17 QUADRUPLEX RECEPTACLE AT 18" AFF
- 18 OUTLET STRIP: GC SUPPLIED AND INSTALLED ON MANAGER'S DESKTOP
- 19 DATA RECEPTACLE AT 36" AFF
- 20 NOT USED
- 21 LIGHTING CONTROLS LOCATION
- 22 THERMOSTAT LOCATION
- 23 REMOTE TEMPERATURE SENSOR LOCATION
- 24 DUPLEX RECEPTACLES @ 16" MAX SPACING MOUNTED IN LIGHT COVE ABOVE (FOR COVE LIGHTING)
- 25 DUPLEX RECEPTACLE MOUNTED IN LIGHT COVE FOR VERTICAL LED LIGHT STRIPS
- 26 DATA RECEPTACLE AT 26" AFF

GENERAL NOTES

1. FLOOR RECEPTACLES ARE TO BE COORDINATED W/ FIXTURE BASE CONDITION, RUN CONDUIT IN TOE KICK FROM BOX TO BOX WHERE CONCEALED.
2. TRAFFIC COUNTER CONTROLLER RECEIVER IS TO BE IN STOCK ROOM. GENERAL CONTRACTOR IS TO PROVIDE 5'-0" OF CABLE SLACK IN CEILING AND COORDINATE INSTALLATION WITH PANDORA VENDOR.

POWER/DATA LEGEND

∅	DUPLEX RECEPTACLE
∅	QUADRUPLEX RECEPTACLE
∅	DUPLEX RECEPTACLE RECESSED FLOOR MOUNTED
▼	DATA RECEPTACLE
▼	DATA RECEPTACLE - RECESSED FLOOR MOUNTED
⌚	JUNCTION BOX
GFI	DUPLEX RECEPTACLE - GROUND FAULT INTERRUPT
\$LANG	LIGHTING SWITCH/CONTROLS
T	THERMOSTAT
∅C	"CLOCK" DUPLEX RECEPTACLE - RECESSED FLOOR MOUNTED WITH SLOTTED COVER
∅C	"CLOCK" DUPLEX RECEPTACLE
S	REMOTE TEMPERATURE SENSOR

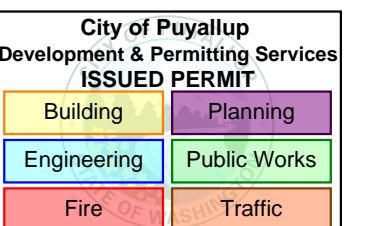
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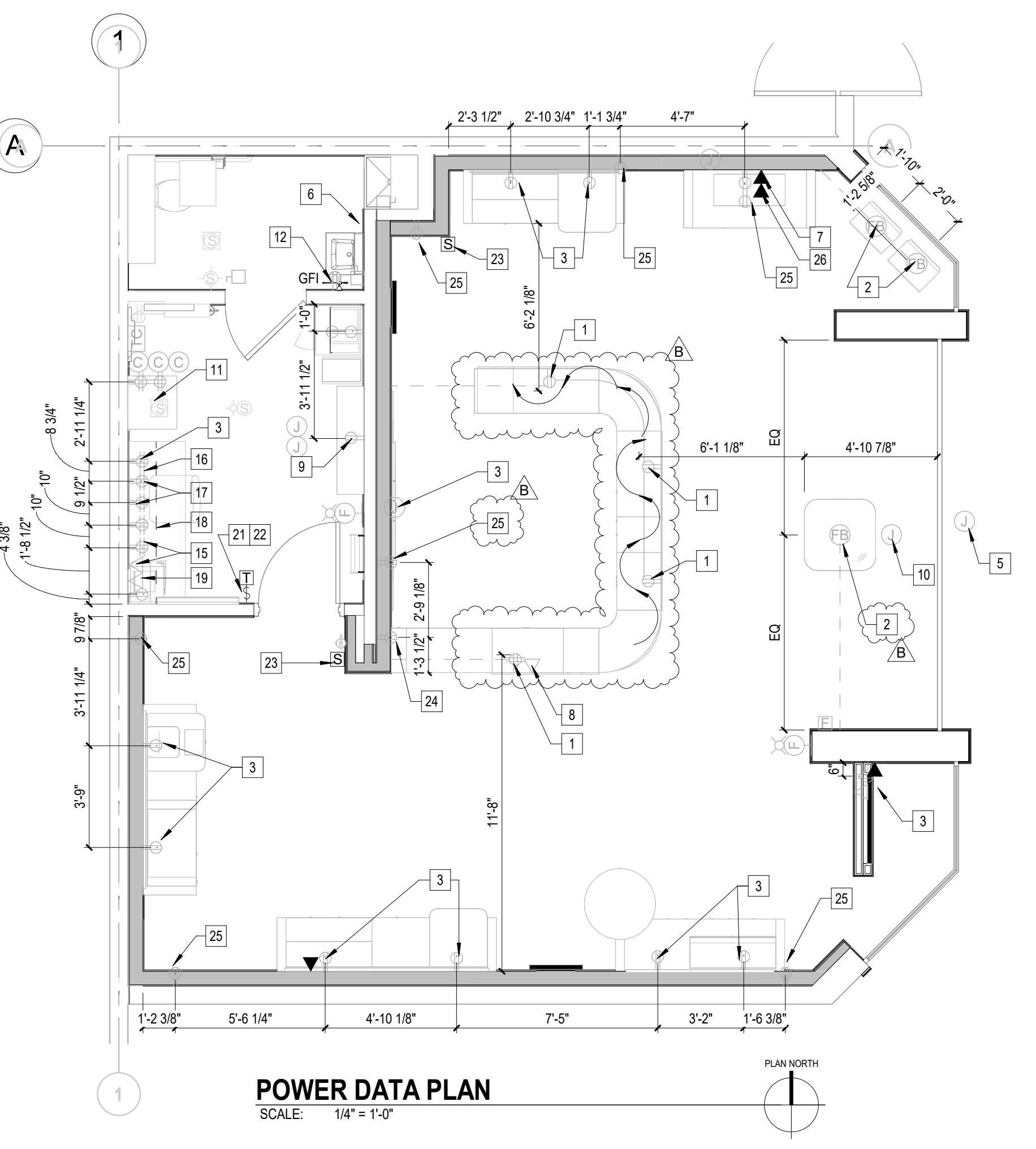
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Project Manager Drawn
M. SCHLOSSER Z. HONEINI
Checked
Client M. SCHLOSSER
PANDORA

Project
PUYALLUP, WA

SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA
Drawing Title
POWER / DATA PLAN

Scale As indicated
Project No. RT2025-0388-99
Drawing No. A1.5



KEYED NOTES

- [1] INDIVIDUAL INTERNALLY ILLUMINATED LETTER SIGN (BY SIGN VENDOR)
- [2] EXISTING ALUMINUM STOREFRONT BASE FRAME
- [3] EXISTING CLEAR TEMPERED GLASS
- [4] 5/8" X 2 3/4" X 1/8" ALUMINUM BASE TRIM
- [5] EXISTING MALL BULKHEAD
- [6] NEW PAINT COAT METAL PANELS IN COLOR MTL-2
- [7] METAL EDGE TRIM (SCHLUTER QUADEC Q100 AE) (PNT-6)
- [8] EXISTING ROLLER SHUTTER TO REMAIN
- [9] NOT USED
- [10] EXISTING MALL PEIR
- [11] NOT USED
- [12] NOT USED
- [13] NOT USED
- [14] NOT USED
- [15] LEASE LINE
- [16] METAL EDGE TRIM, BLACK FINISH, MT-1
- [17] BID ALTERNATE - INSTALL NEW 5/8" CONC. BOARD AND INSTALL NEW PINK TILES WITH NEW SCHLUTER EDGE TRIM

GENERAL NOTES

1. WITH RESPECT TO THE STOREFRONT GLAZING/FRAMING SYSTEM, THE DRAWINGS INDICATE THE AESTHETIC AND DIMENSIONAL DESIGN INTENT. THE STOREFRONT MANUFACTURER IS RESPONSIBLE FOR THE SPECIFIC DESIGN OF THE SYSTEM AND ITS STRUCTURAL, THERMAL, AND WEATHER TIGHT PERFORMANCE. REFER TO SPECIFICATIONS FOR PERFORMANCE REQUIREMENTS.
2. ALL WOOD BLOCKING IS TO BE FIRE-RETARDANT-TREATED.
3. NO FASTENERS ARE TO BE VISIBLE ON THE STOREFRONT SIGN OR METAL TRIM.
4. SOLID FIRE RATED BLOCKING IS TO BE PROVIDED WITHIN WALL/PIER AT MOUNTING LOCATION OF BLADE SIGNS (SEE VENDOR SHOP DRAWINGS FOR MORE INFORMATION)

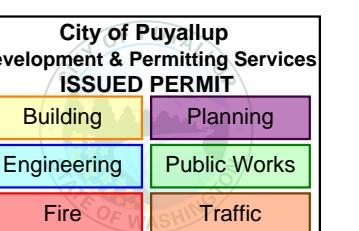
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12/04/25	ADDENDUM 1	B

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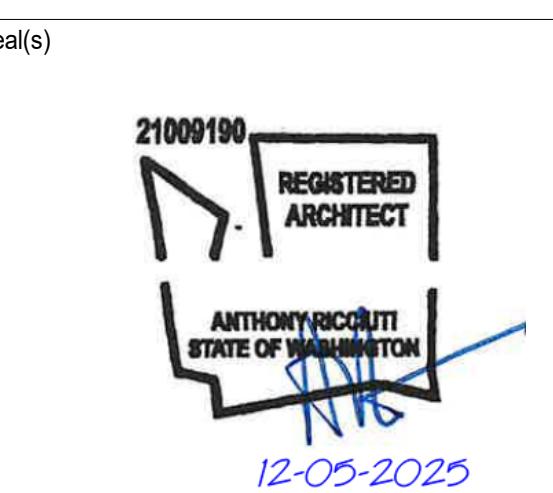
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Detroit, MI, US 48226
norr.com

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Project Leader M. SCHLOSSER Checked J. MARJI

Client

PANDORA

Project
PUYALLUP, WA

SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA

Drawing Title
STOREFRONT PLAN/ELEVATIONS

Scale

3/8" = 1'-0"

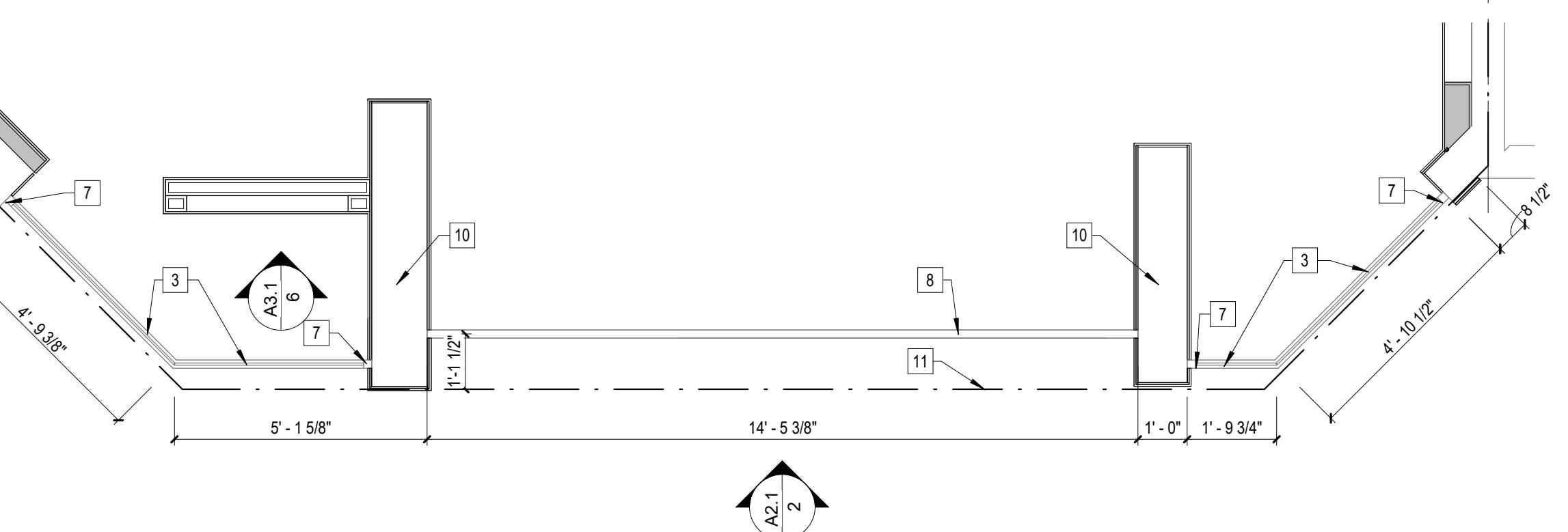
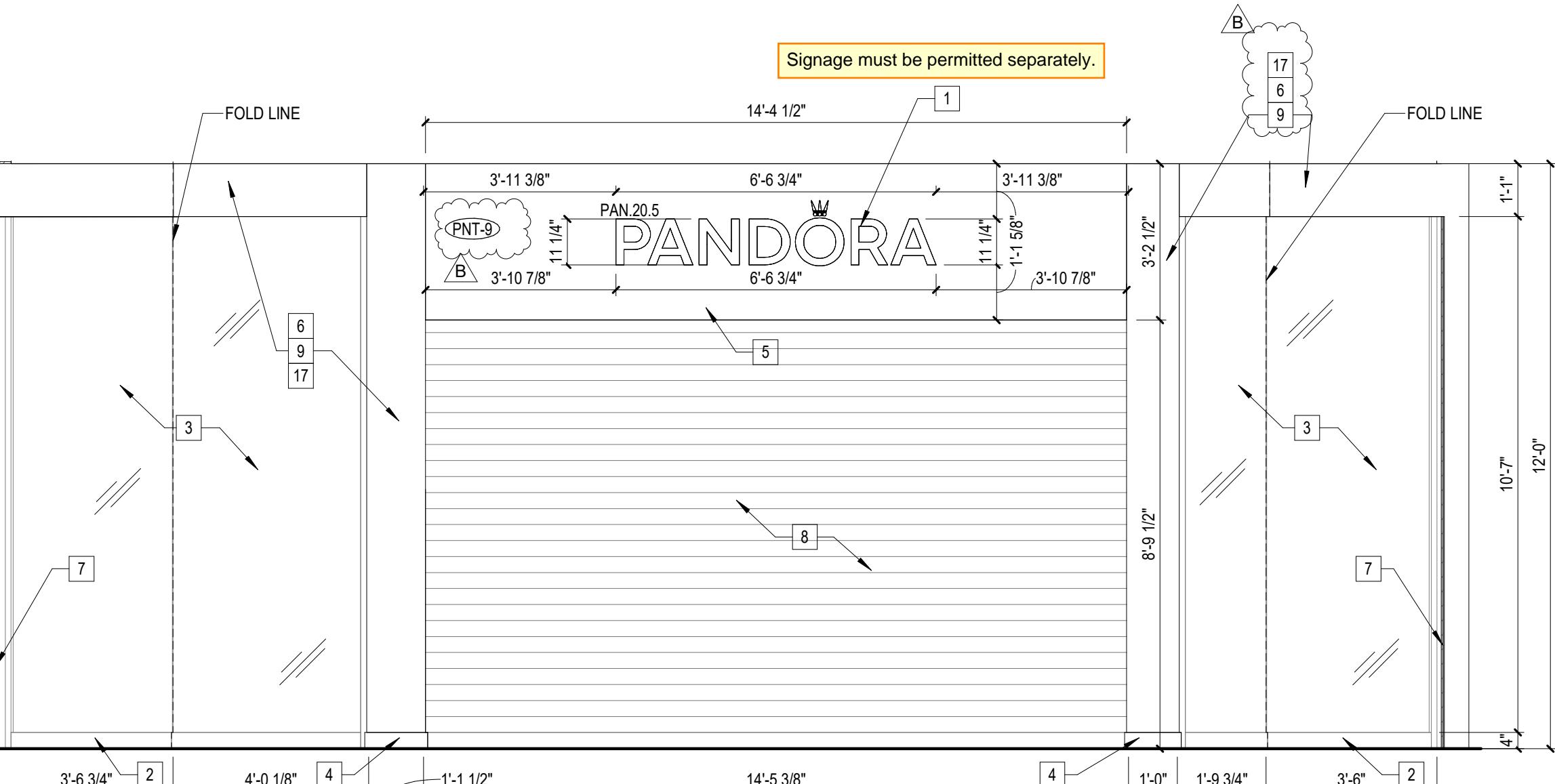
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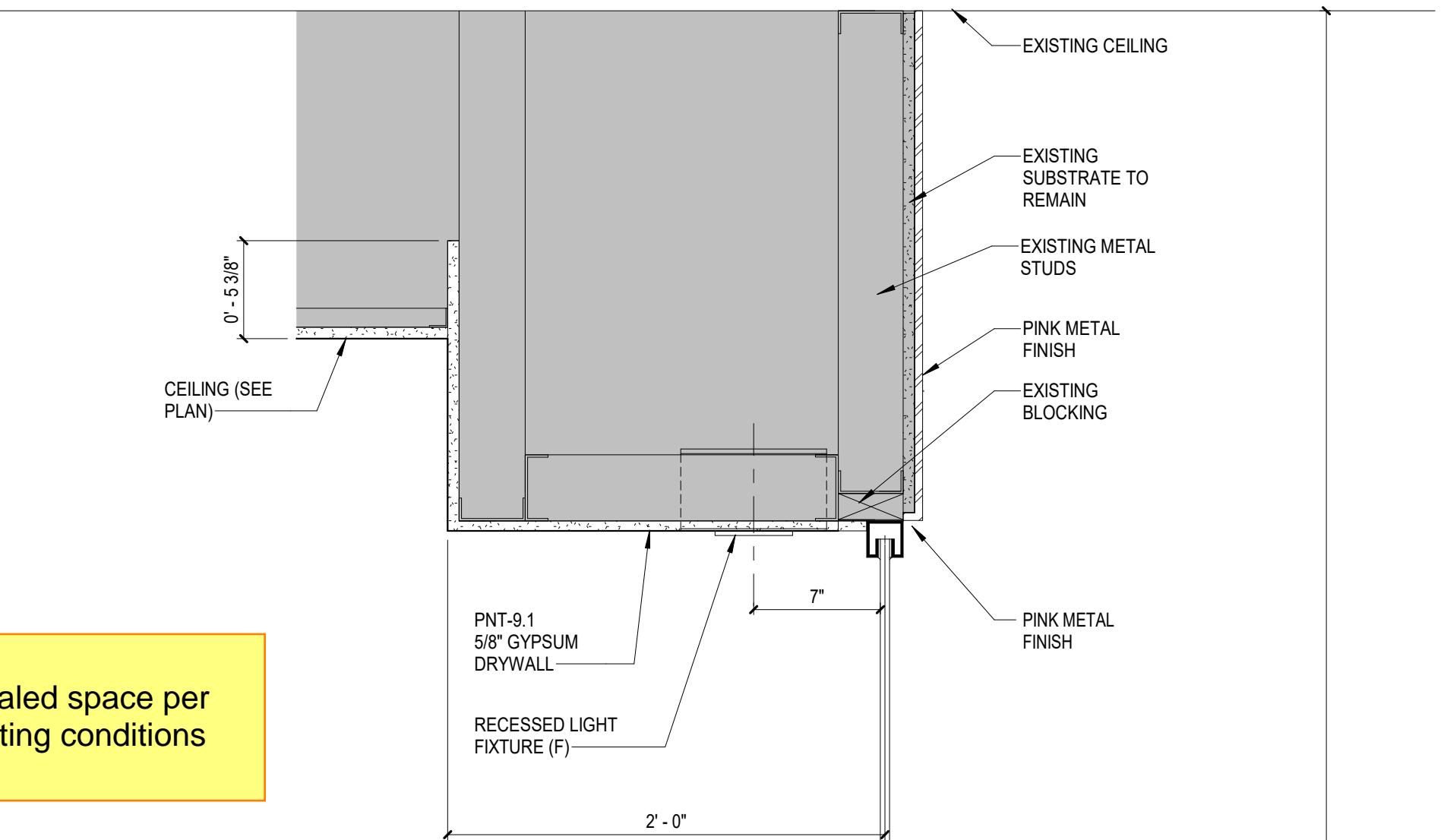
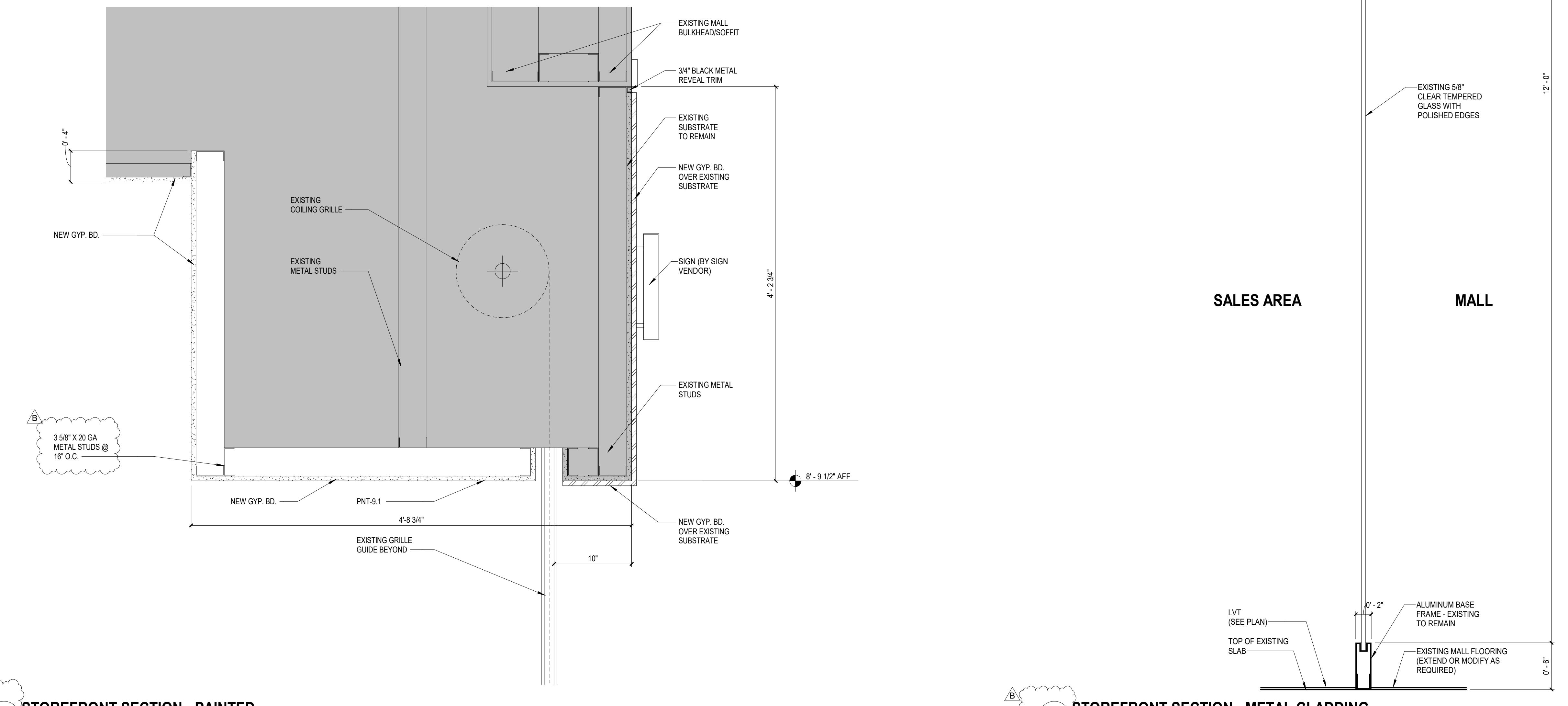
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Drawing No.

A2.1

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CONTRACTOR NOTE
Contractor to verify whether fireblocking is required at the concealed space per section 718.2 of the 2021 Washington State Building Code. Existing conditions and layout will determine whether fireblocking is required.

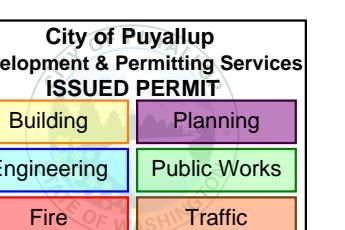
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09/26/2025	CLIENT REVIEW	
10/13/2025	PERMIT SET	
11/13/25	BID SET	A
12/04/25	ADDENDUM 1	B

PRCTI20251416

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Project Component



Consultants
Architecture: NORR
Mechanical: NORR
Electrical: NORR

Seal(s)
21009100
REGISTERED ARCHITECT
ANTHONY RICCUTI, STATE OF MICHIGAN
12-05-2025

NORR

150 W. Jefferson Avenue, Suite 1300
Detroit, MI, US 48226
norr.com

Project Manager M. SCHLOSSER Drawn Z. HONEINI
Project Leader M. SCHLOSSER Checked J. MARJI
Client **PANDORA**

Project **PUYALLUP, WA**

SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA

Drawing Title **STOREFRONT SECTIONS**

Scale 1 1/2" = 1'-0"
Project No. RT2025-0388-99
Drawing No. A2.2

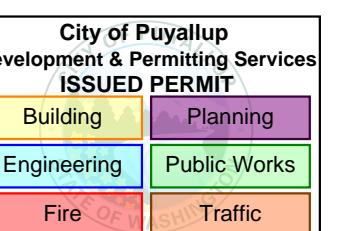
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PRCTI20251416

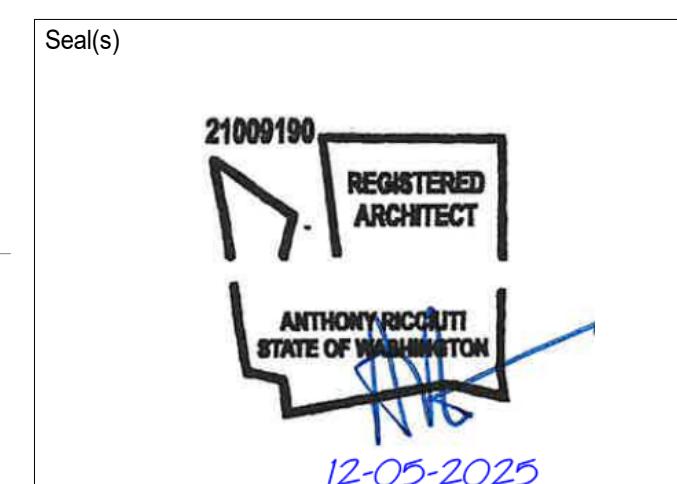
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Project Component



Consultants
Architecture: NORR
Mechanical: NORR
Electrical: NORR



NORR

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norr.com

Project Manager Drawn
Z. HONEINI
Project Leader Checked
J. MARJI

Client **PANDORA**

Project **PUYALLUP, WA**

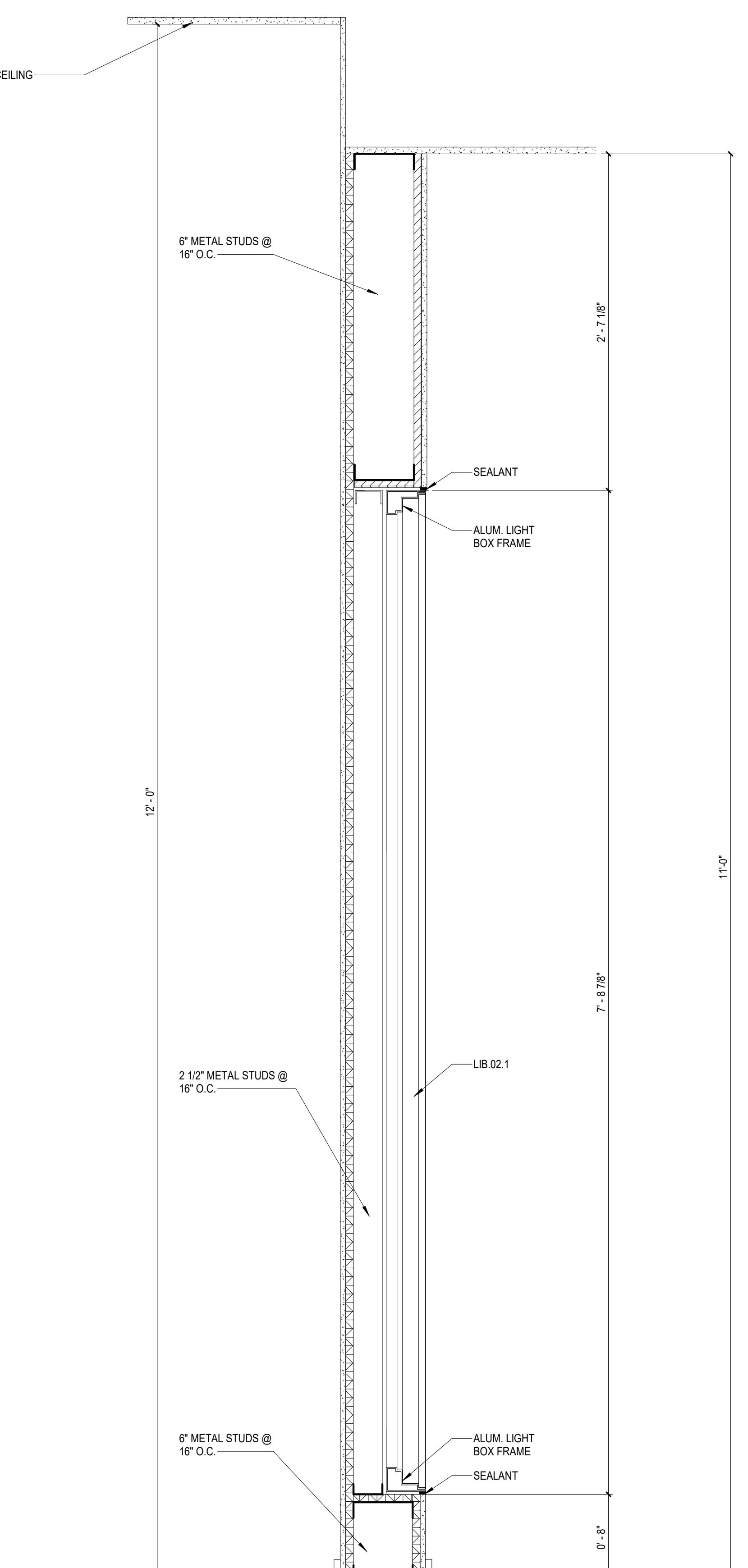
SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA

Drawing Title **STOREFRONT SECTIONS**

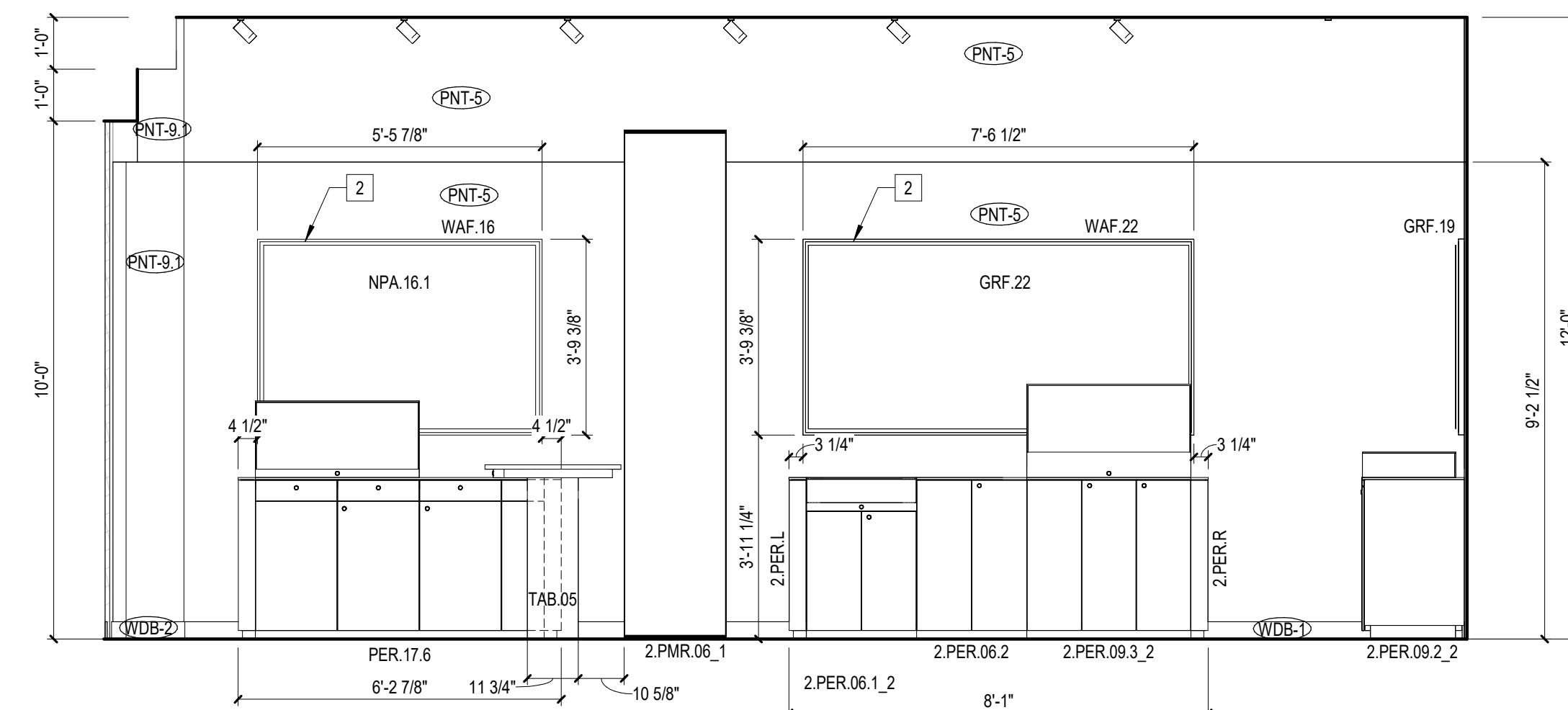
Scale $1\frac{1}{2}'' = 1'-0''$

Project No. **RT2025-0388-99**

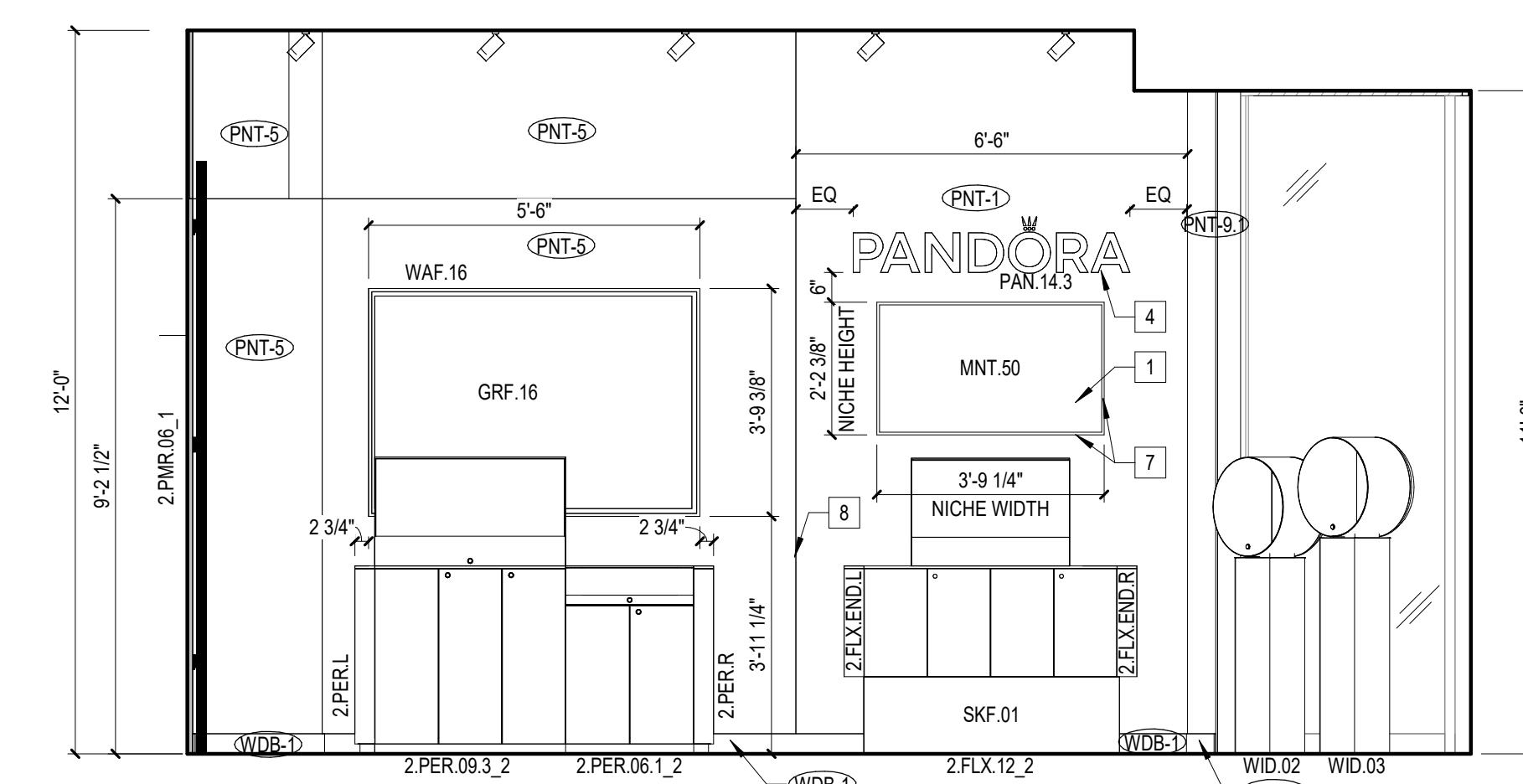
Drawing No. **A2.3**



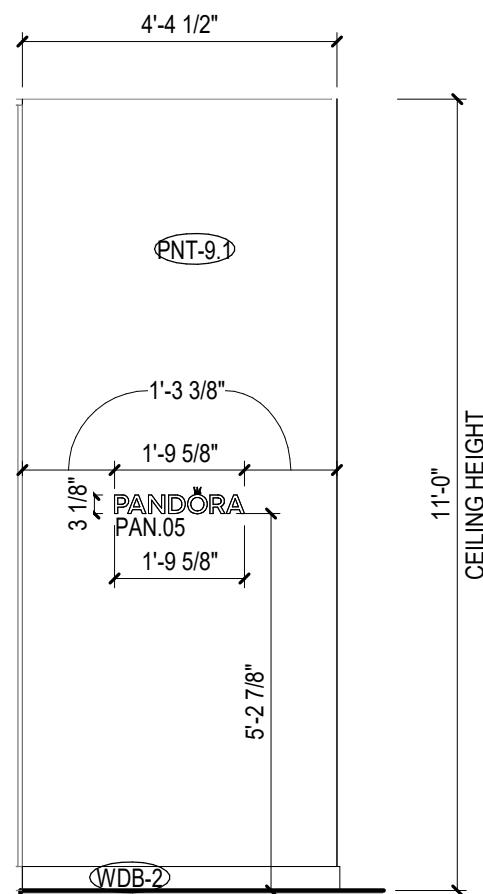
1 WALL SECTION - LIGHTBOX - LIB
SCALE: $1\frac{1}{2}'' = 1'-0''$



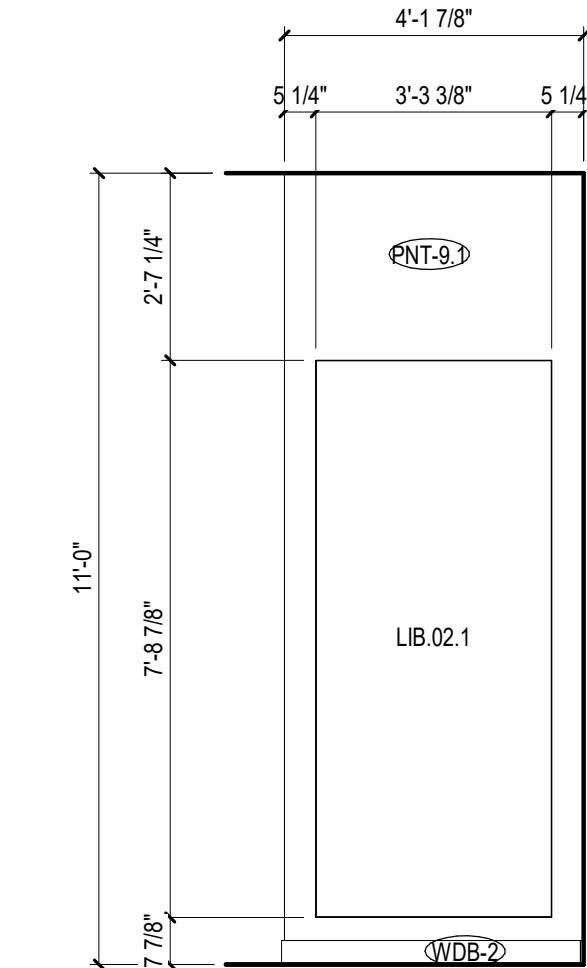
4 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



2 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



7 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"

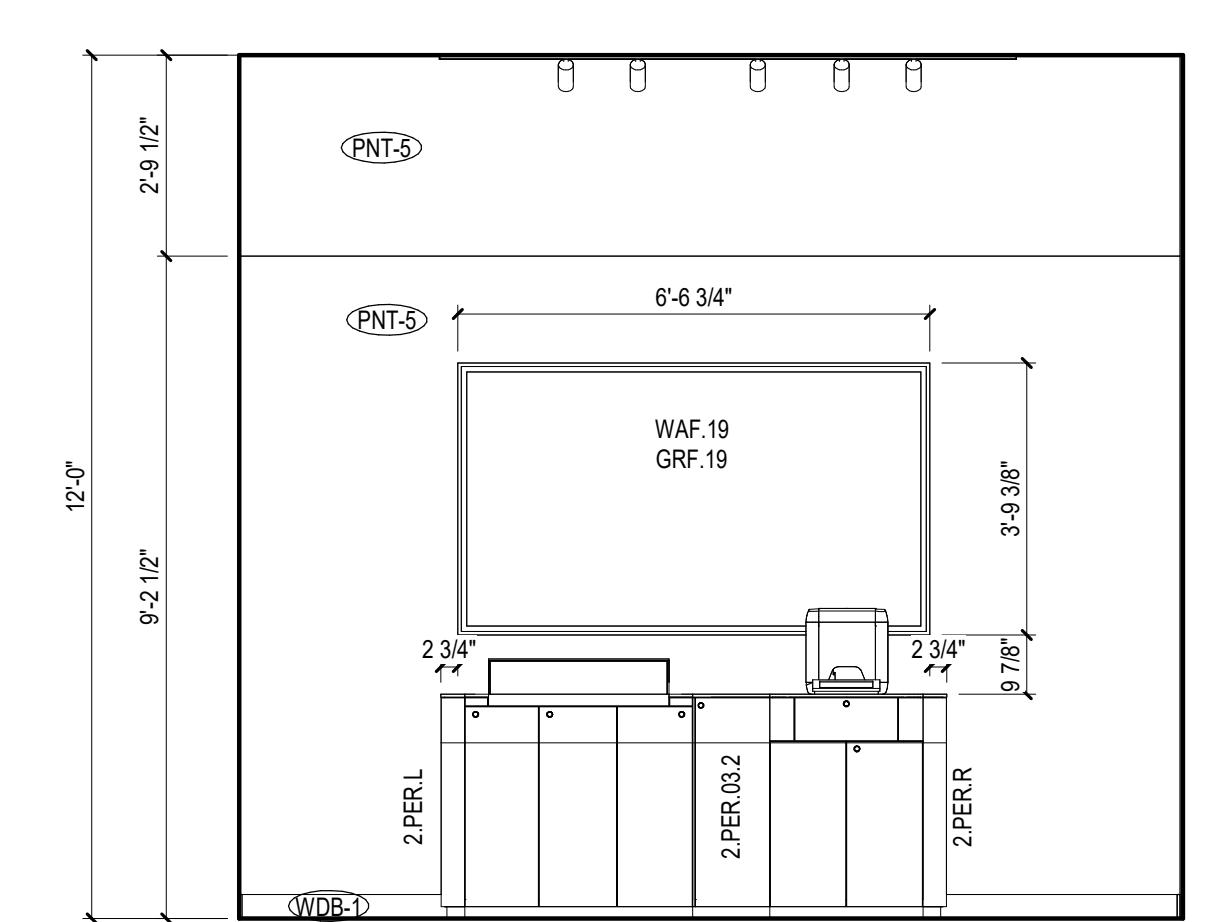


6 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"

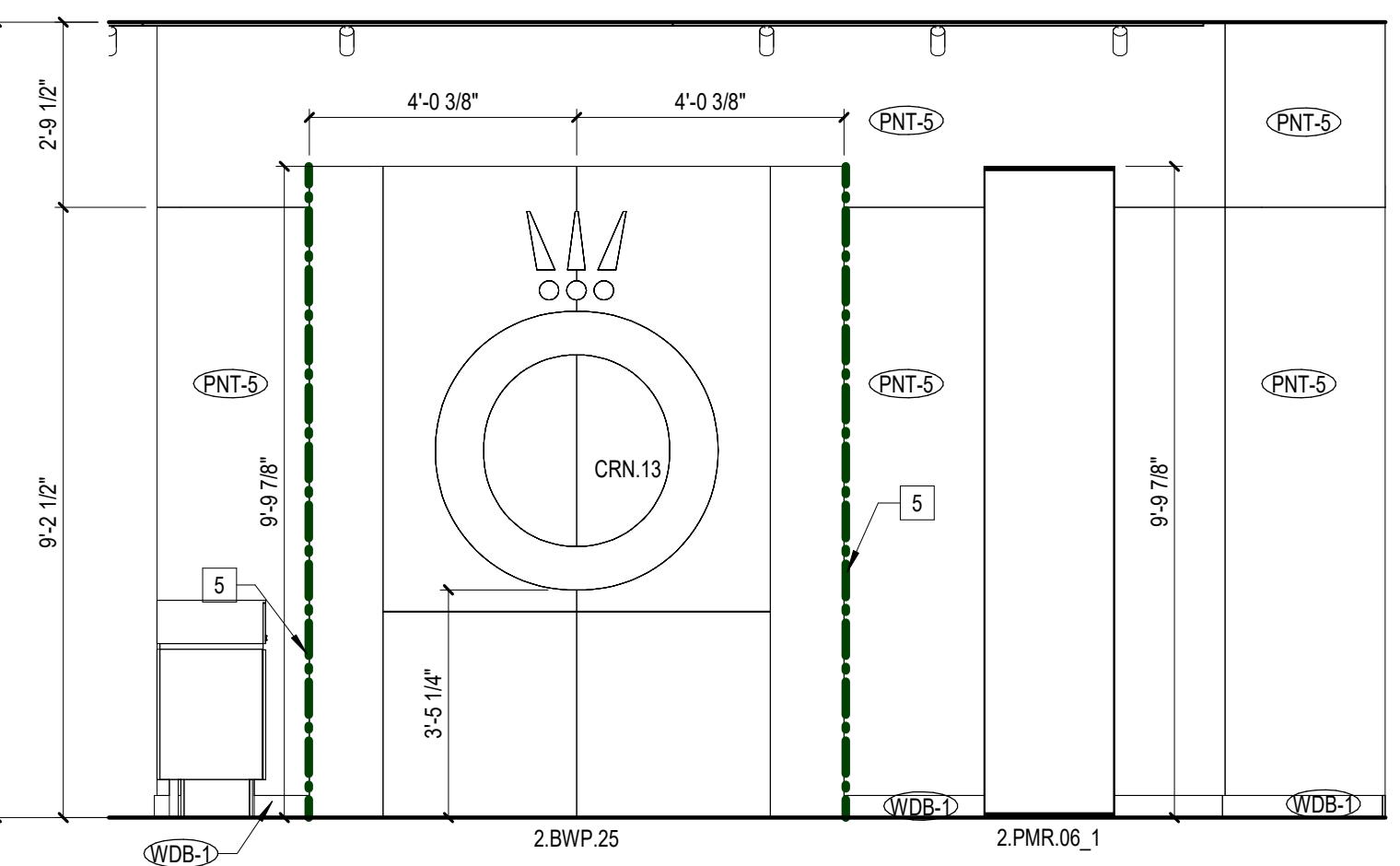
[2021 Washington State Building Code, section 1110.13.2]
Sales and Service Counters and Windows
Where counters or windows are provided for sale or distribution of goods or services, at least one of each type of counter and window provided shall be accessible. Where such counters or windows are dispersed throughout the building or facility, accessible counters or windows shall also be dispersed.

KEYED NOTES

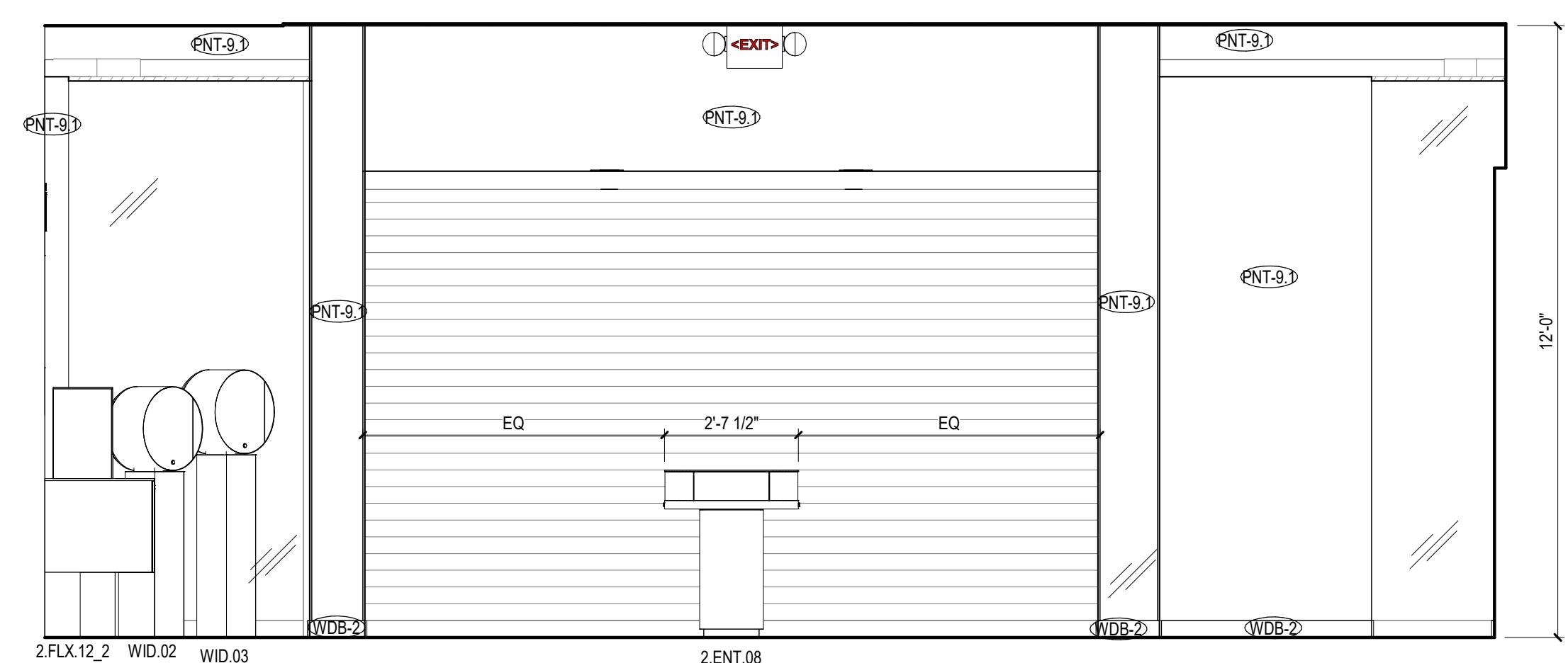
- 1 50" TV
- 2 WALL MOUNTED FRAMES TO BE PAINTED PNT-5
- 3 NOT USED
- 4 PIN-MOUNTED LOGO
- 5 LED LIGHT STRIP (VERTICAL BEHIND BRAND WALL FIXTURE) SEE LIGHTING SCHEDULE
- 6 NOT USED
- 7 REAR AND SIDES OF TV NICHE TO BE PAINTED PNT-5
- 8 SHADOW GAP TO SEPARATE TWO FINISHES



5 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



3 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



1 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"

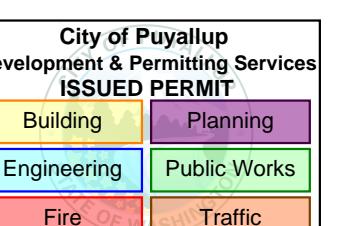
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12/04/25	ADDENDUM 1	B

PRCT120251416

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Project Component



Consultants
Architecture: NORR
Mechanical: NORR
Electrical: NORR

Seal(s)



12-05-2025

NORR

150 W. Jefferson Avenue., Suite 1300
Detroit, MI, US 48226
norr.com

Project Manager M. SCHLOSSER Drawn Z. HONEINI
Project Leader M. SCHLOSSER Checked J. MARJI

Client

PANDORA

Project

PUYALLUP, WA

SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA

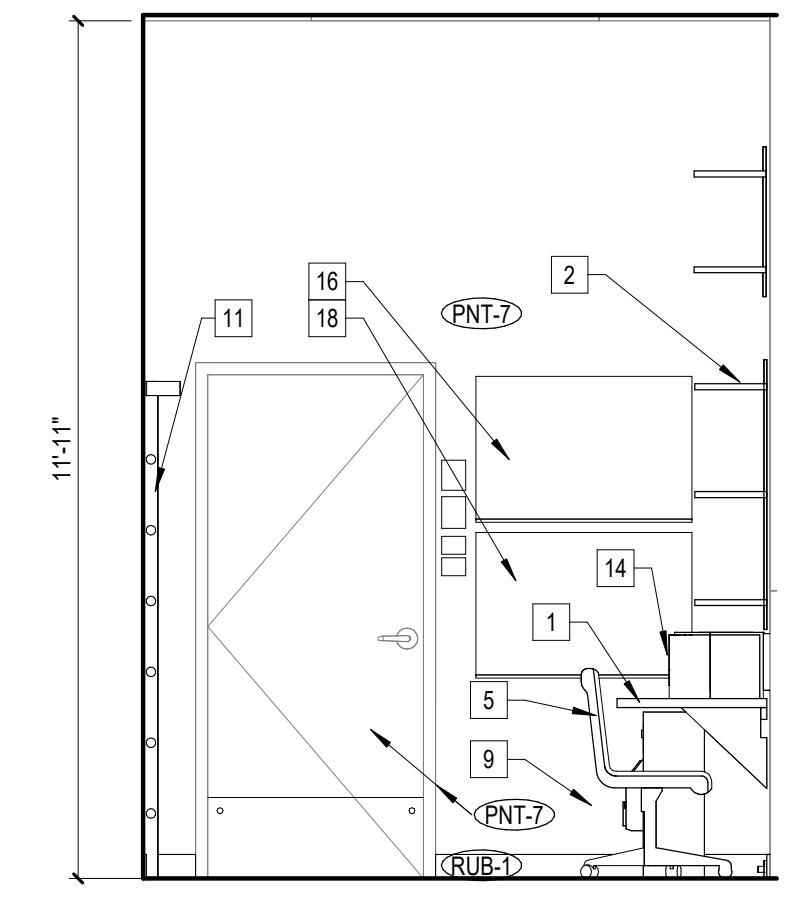
Drawing Title **INTERIOR ELEVATIONS**

Scale 3/8" = 1'-0"

Project No. RT2025-0388-99

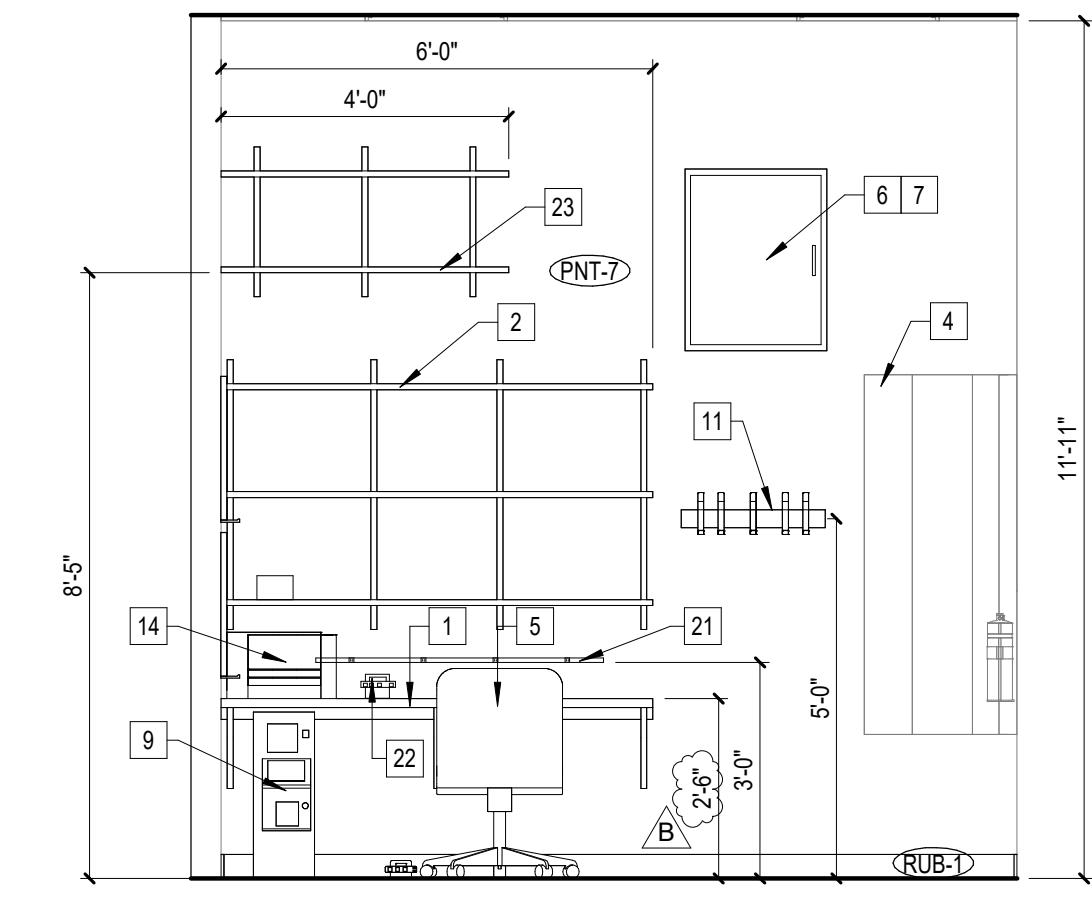
Drawing No. A3.1

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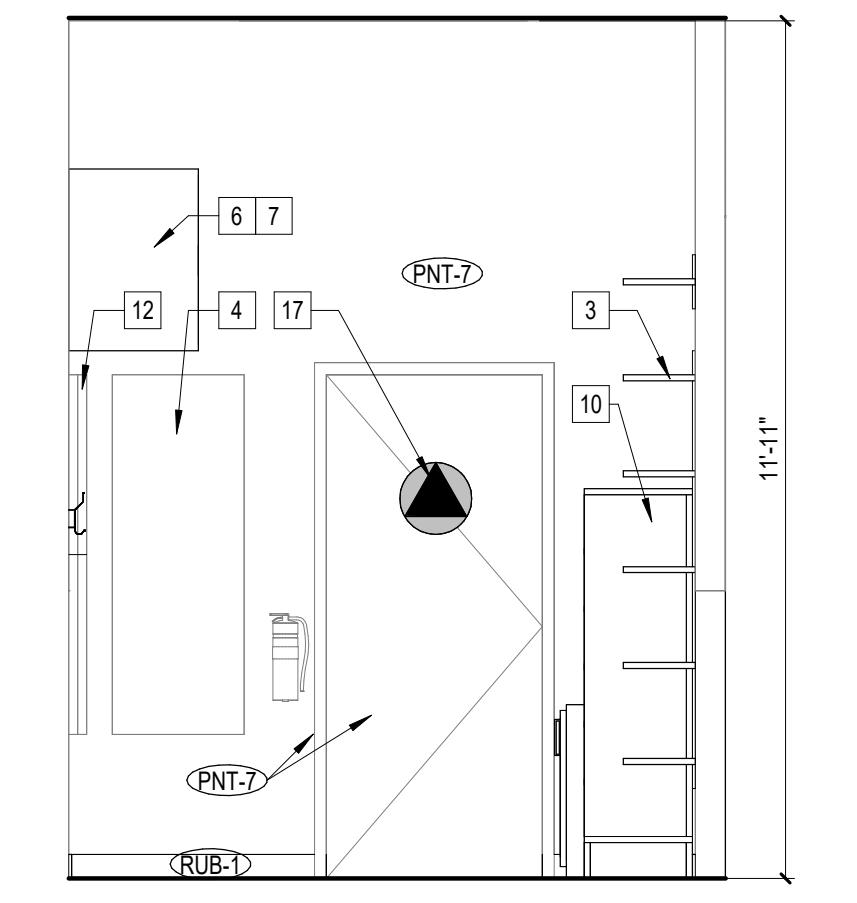
4 INTERIOR ELEVATION

SCALE: 3/8" = 1'-0"



3 INTERIOR ELEVATION

SCALE: 3/8" = 1'-0"



2 INTERIOR ELEVATION

SCALE: 3/8" = 1'-0"

KEYED NOTES

- 1 MANAGER'S DESK - 25" DEEP WHITE PLASTIC LAMINATE COUNTERTOP @ 30" AFF. (WALL MOUNTED USING CONTINUOUS CLEAT AND STEEL BRACKETS @ 24" O.C.)
- 2 (3) 12" DEEP ADJUSTABLE WHITE PLASTIC LAMINATE SHELVES ON WALL MOUNTED STEEL STANDARDS @ 24" O.C. (BOTTOM SHELF @ 48" AFF; TOP SHELF @ 84" AFF; EQUALY SPACED)
- 3 (5) 12" DEEP ADJUSTABLE WHITE PLASTIC LAMINATE SHELVES ON WALL MOUNTED STEEL STANDARDS @ 24" O.C. (BOTTOM SHELF @ 20" AFF; TOP SHELF @ 84" AFF; EQUALY SPACED)
- 4 ELECTRICAL PANELS
- 5 DESK CHAIR
- 6 4'-0" x 6'-0" PLYWOOD BEHIND IT CABINET AND A/V SHELF FOR MOUNTING
- 7 IT RACK/CABINET
- 8 NOT USED
- 9 SAFE (BOLT TO FLOOR)
- 10 LOCKER
- 11 COAT RACK
- 12 LADDER - ON WALL HOOK (SUPPLIED BY GC)
- 13 NOT USED
- 14 PRINTER
- 15 NOT USED
- 16 FRAMED DRY ERASE BOARD
- 17 ACCESSIBLE TOILET ROOM SIGN (PER ADA STANDARDS)
- 18 FRAMED BULLETIN BOARD
- 19 MINI REFRIGERATOR AND MICROWAVE
- 20 12" DEEP PLASTIC LAMINATE SHELF ON WALL-MOUNTED STEEL STANDARDS @ 24" O.C. MAX (SHELF @ 99" AFF)
- 21 CORK STRIP (BY GC)
- 22 (1) OUTLET STRIP: GC SUPPLIED AND INSTALLED ON MANAGERS DESKTOP. (3 OUTLETS, 10 FT CORD, 15A MAX. AMPS - ITEM #49UF85)
- 23 (1) 12" DEEP ADJUSTABLE WHITE PLASTIC LAMINATE SHELVES ON WALL MOUNTED STEEL STANDARDS @ 24" O.C. (BOTTOM SHELF @ 101" AFF; TOP SHELF @ 117" AFF; EQUALY SPACED)

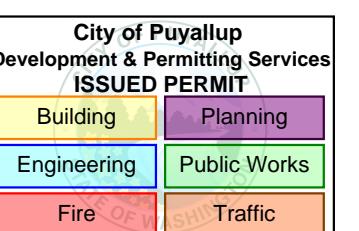
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12/04/25	ADDENDUM 1	B

PRCT120251416

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Project Component



Consultants

Architecture: NORR
Mechanical: NORR
Electrical: NORR

Seal(s)



NORR

150 W. Jefferson Avenue., Suite 1300
Detroit, MI, US 48226
norr.com

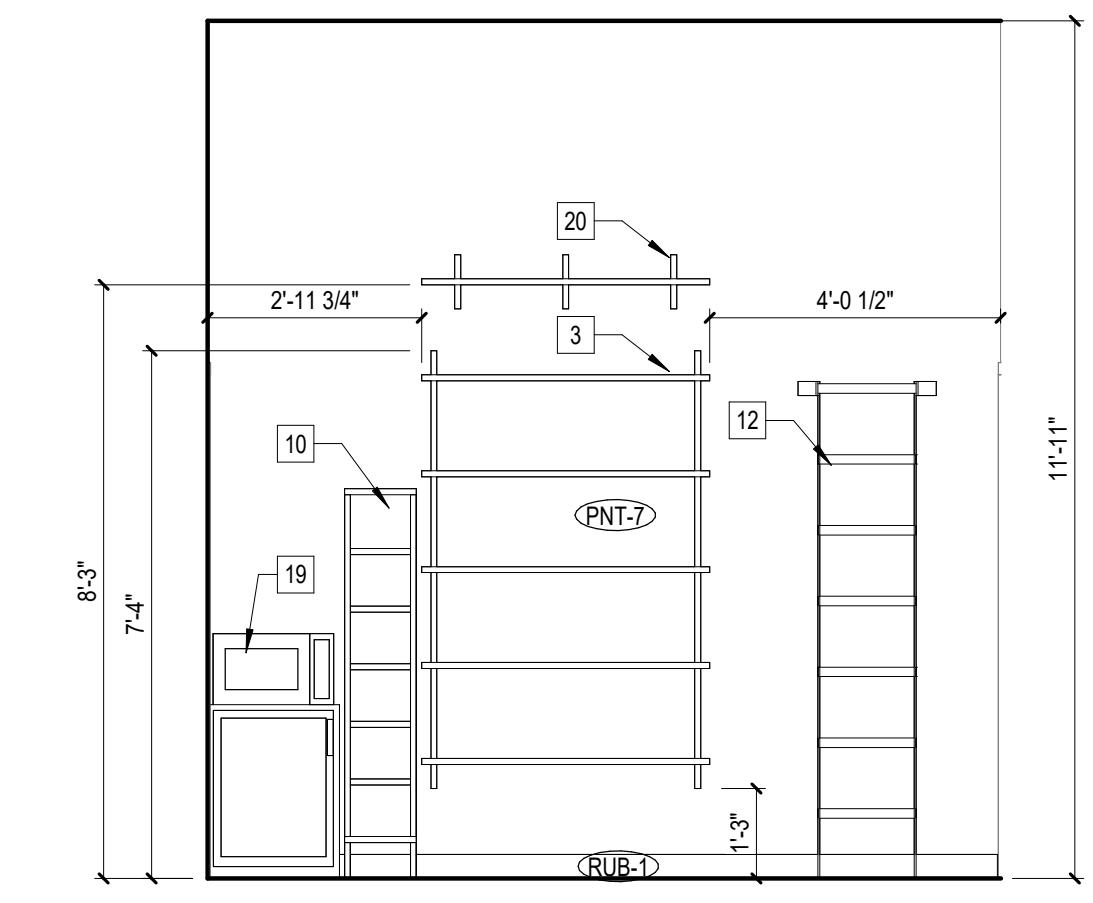
Project Manager M. SCHLOSSER Drawn Z. HONEINI
Project Leader M. SCHLOSSER Checked J. MARJI

Client

PANDORA

Project PUYALLUP, WA
SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA

Scale 3/8" = 1'-0"
Project No. RT2025-0388-99
Drawing No. A3.2
Drawing Title INTERIOR ELEVATIONS



1 INTERIOR ELEVATION

SCALE: 3/8" = 1'-0"

DATE	ISSUED FOR	REV
09/26/2025	CLIENT REVIEW	
10/13/2025	PERMIT SET	
11/13/25	BID SET	A
12/04/25	ADDITIONAL 1	B

KEYED NOTES

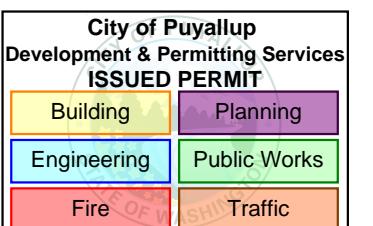
- [1] ALUMINUM FIXTURE BASE TO BE INSTALLED BY FIXTURE VENDOR
- [2] LVT-1 BASE TO BE ADDED TO FIXTURE

PRCT120251416

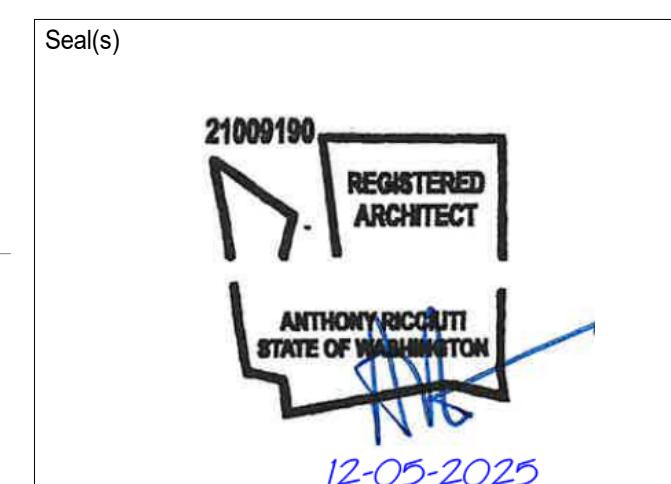
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Project Component



Consultants
Architecture: NORR
Mechanical: NORR
Electrical: NORR



NORR

150 W. Jefferson Avenue, Suite 1300
Detroit, MI, US 48226
norr.com

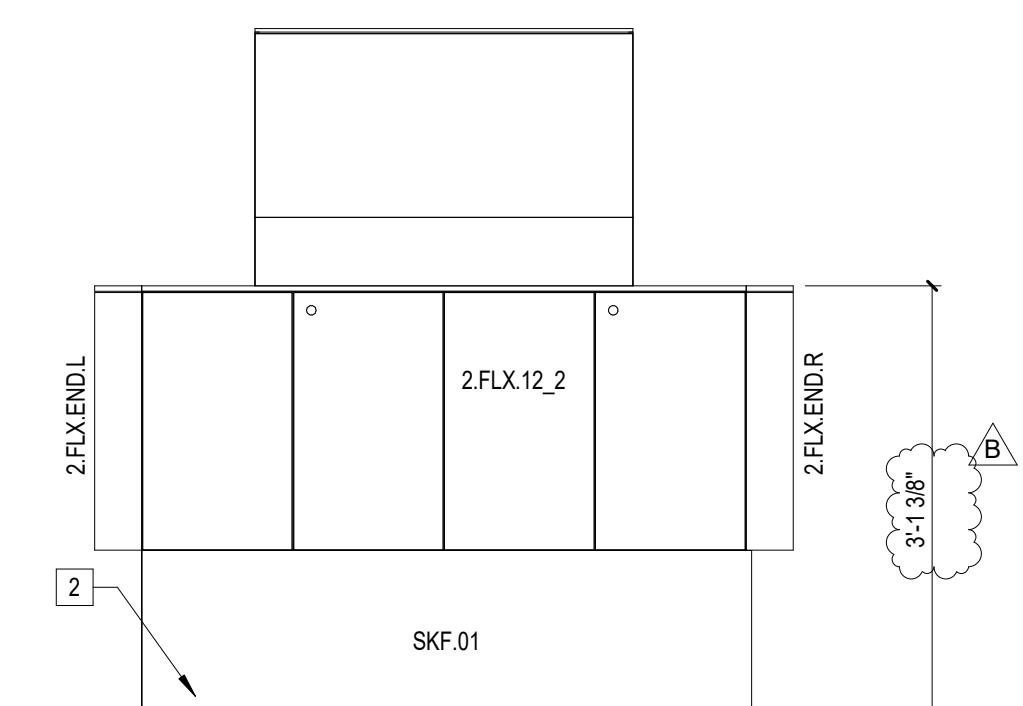
Project Manager M. SCHLOSSER Drawn Z. HONEINI
Project Leader M. SCHLOSSER Checked J. MARJI

Client **PANDORA**

Project **PUYALLUP, WA**

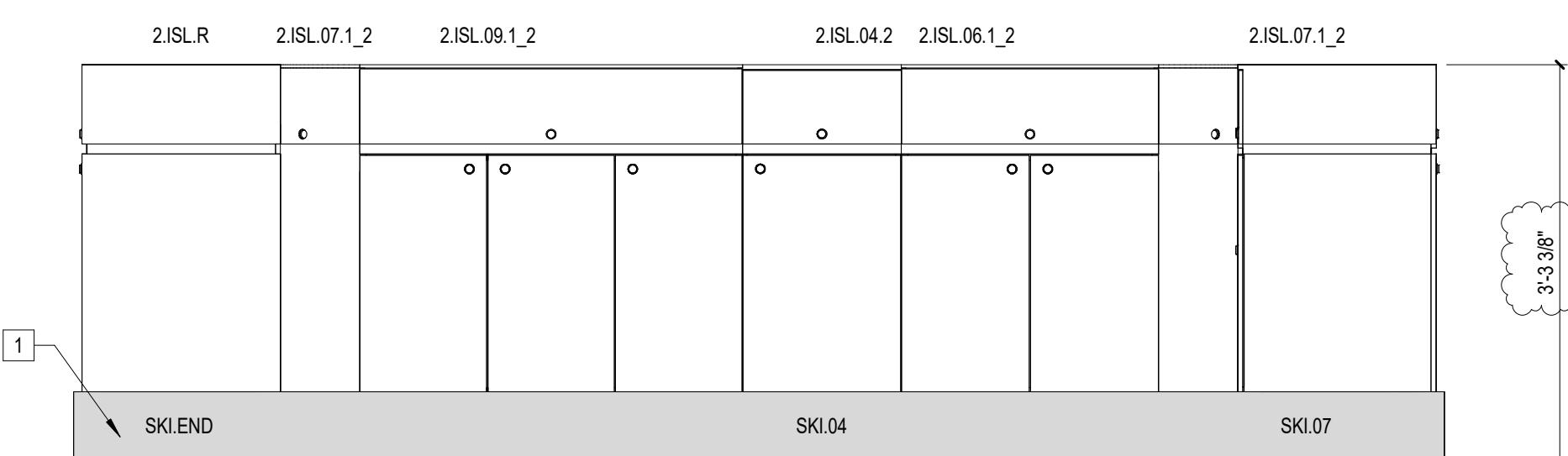
SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA
Drawing Title **INTERIOR ELEVATIONS**

Scale 3/4" = 1'-0"
Project No. RT2025-0388-99
Drawing No. A3.3
Drawing Title Block - v.2023 - Rev (July/23) - Copyright © 2023



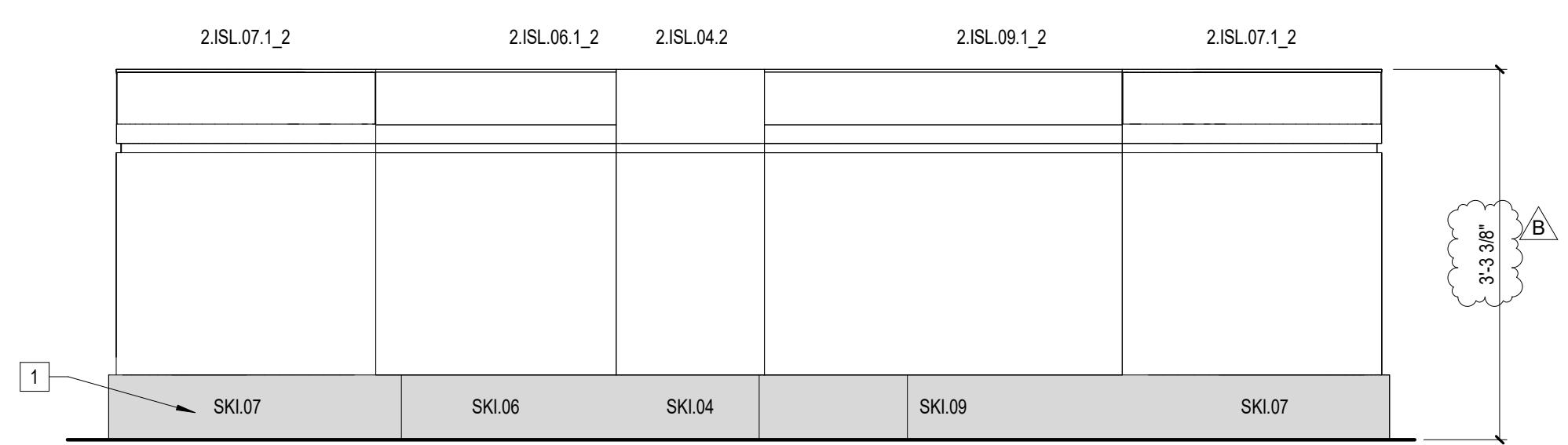
6 INTERIOR ELEVATION

SCALE: 3/4" = 1'-0"



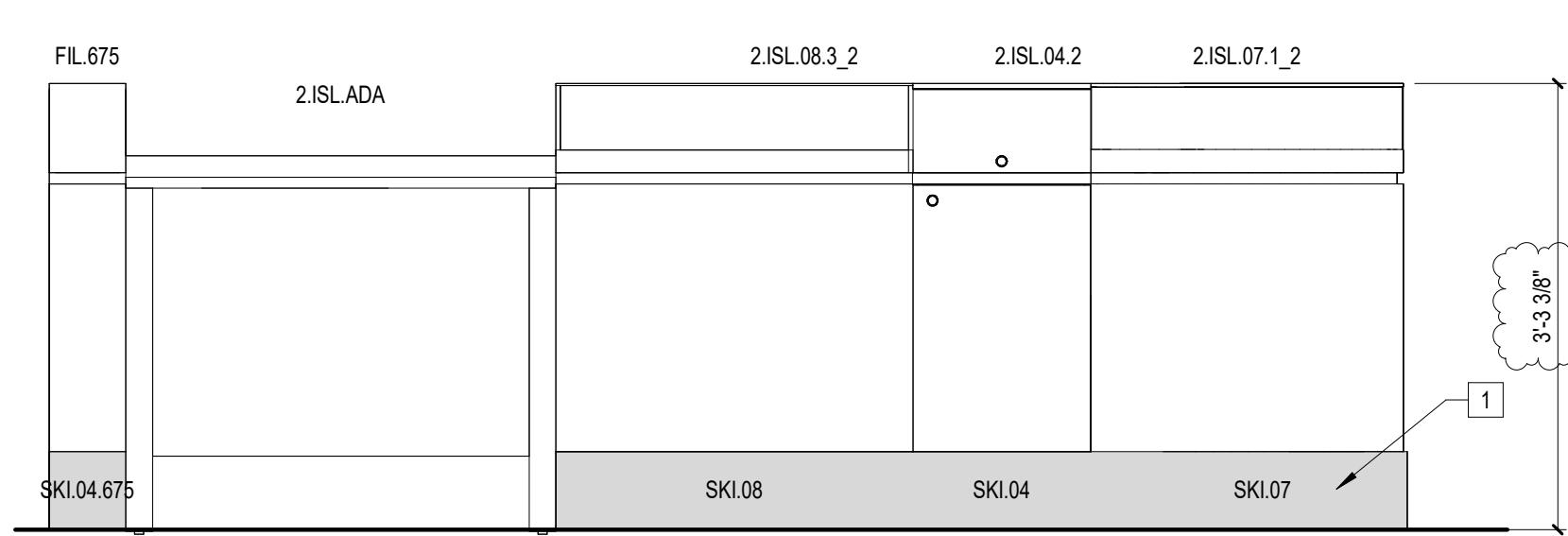
5 INTERIOR ELEVATION

SCALE: 3/4" = 1'-0"



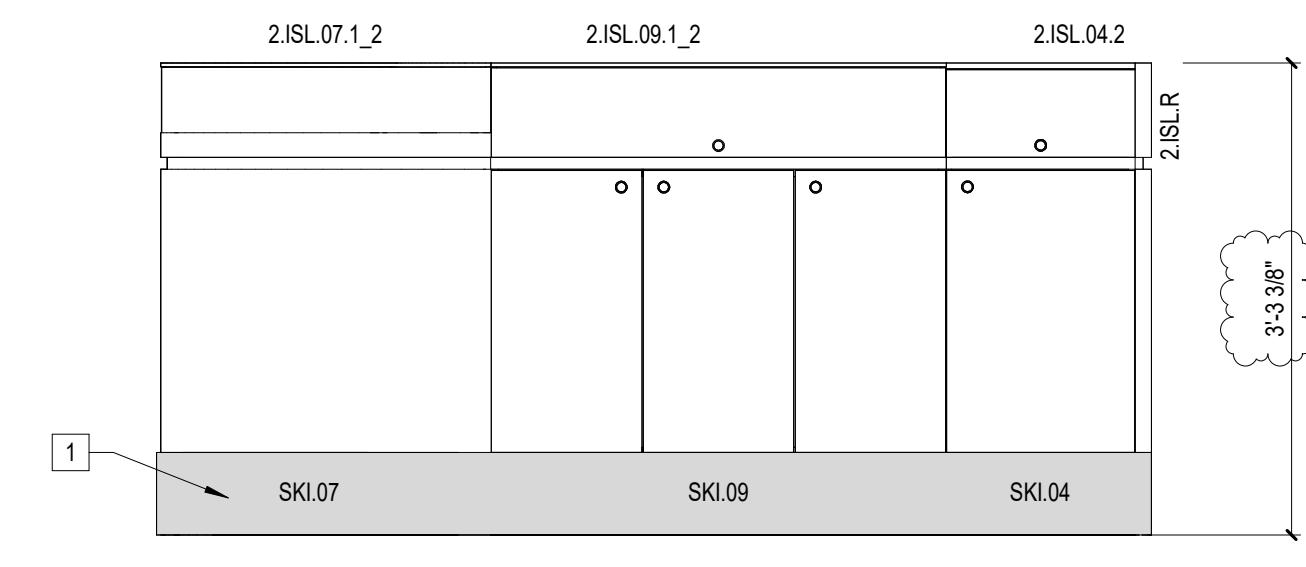
4 INTERIOR ELEVATION

SCALE: 3/4" = 1'-0"



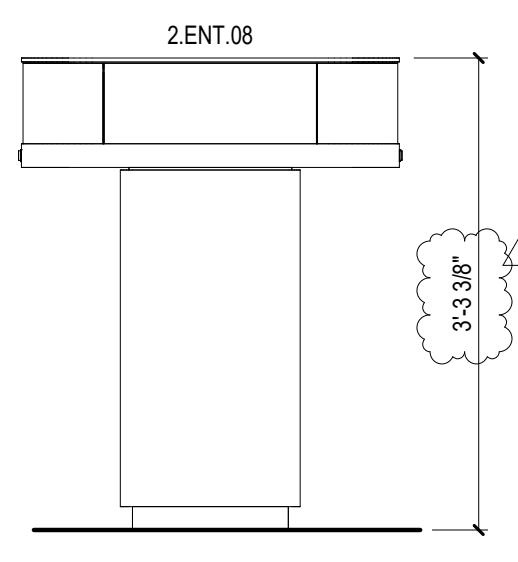
3 INTERIOR ELEVATION

SCALE: 3/4" = 1'-0"



2 INTERIOR ELEVATION

SCALE: 3/4" = 1'-0"



1 INTERIOR ELEVATION

SCALE: 3/4" = 1'-0"

KEYED NOTES

1 (3) 12" DEEP PLASTIC LAMINATE SHELF ON WALL-MOUNTED STEEL STANDARDS @ 24" O.C. MAX (SHELF @ 84" AFF)

2 NEW SCONCE LIGHT

3 EXISTING MIRROR

4 NEW PAPER TOWEL HOLDER

5 NEW ACCESSIBLE LAVATORY - ALL EXPOSED PIPES UNDERNEATH ARE TO BE INSULATED, SEE SHEET P01-01. B
6 NOT USED

7 18" GRAB BAR

8 42" GRAB BAR

9 36" GRAB BAR

10 NEW ACCESSIBLE WATER CLOSET

11 NEW TOILET TISSUE DISPENSER

12 EXISTING UTILITY SINK

13 EXPOSED PIPES UNDER LAVATORY MUST BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT PER SECTION 606.6 OF THE 2017 WASHINGTON STATE ACCESSIBILITY CODE

TOILET ACCESSORIES SCHEDULE

DESCRIPTION	MANUFACTURER/ MODEL NUMBER	FINISH	NOTES
MIRROR	BOBRICK B-166 1836	POLISHED STAINLESS STEEL	
GRAB BAR	BOBRICK B-6806	SATIN STAINLESS STEEL	1 1/2" DIAMETER; 1 1/2" CLEARANCE FROM WALL
TOILET TISSUE DISPENSER	BOBRICK B-76857	SATIN STAINLESS STEEL	
PAPER TOWEL DISPENSER	INTERDESIGN FORMA SWIVEL WALL-MOUNT	BRUSHED STAINLESS STEEL	

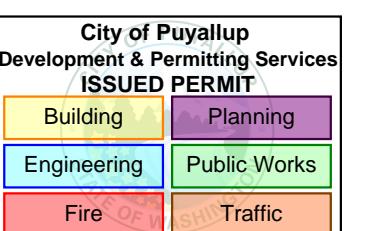
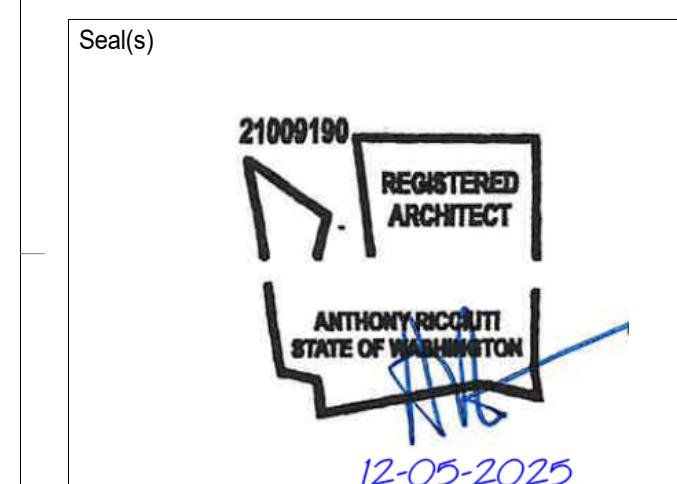
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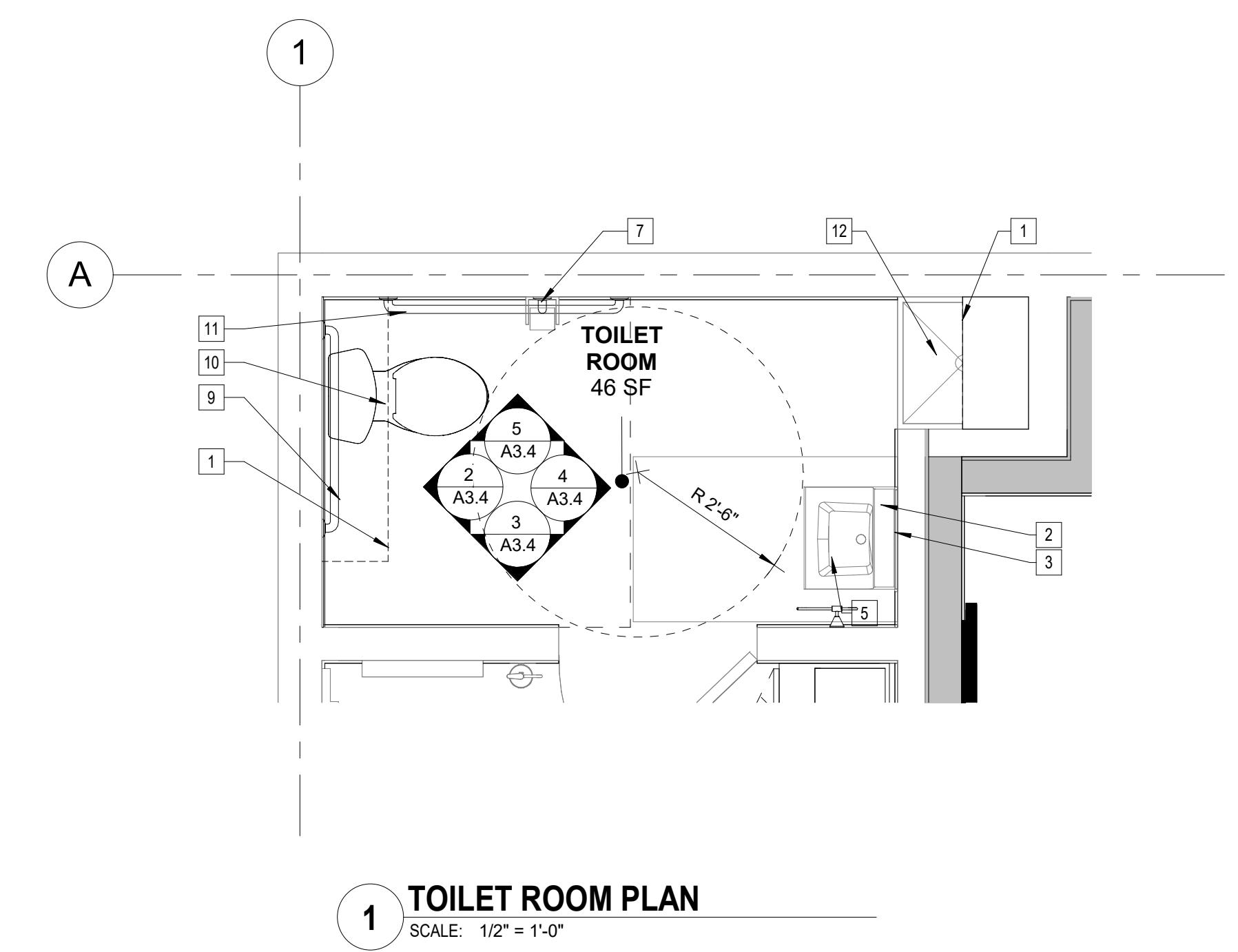
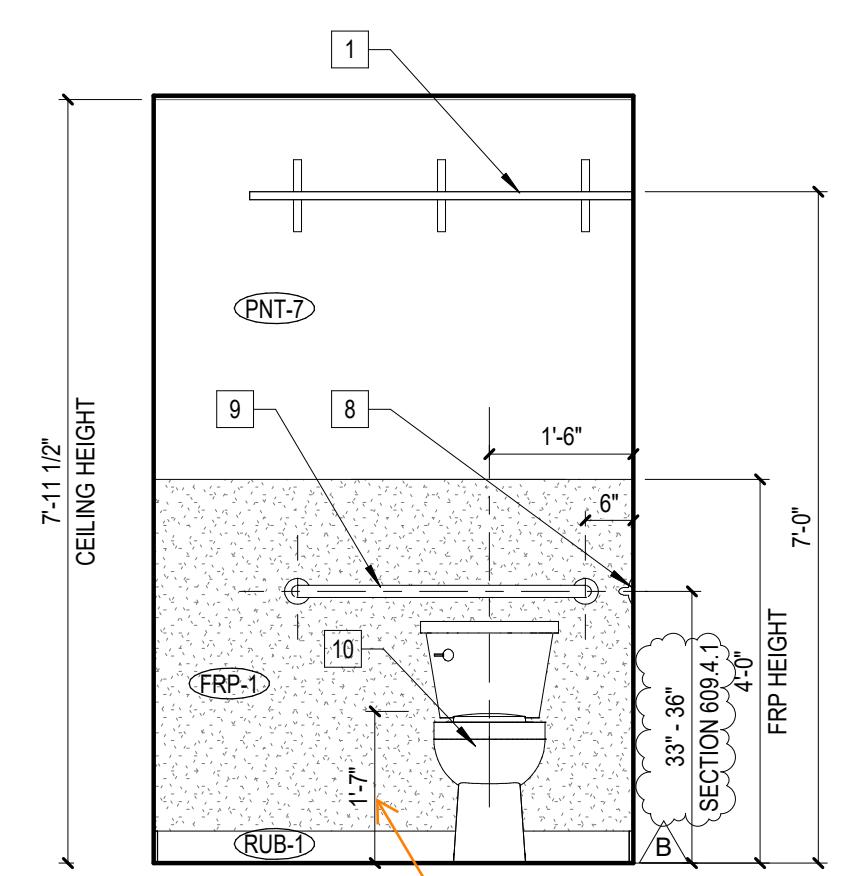
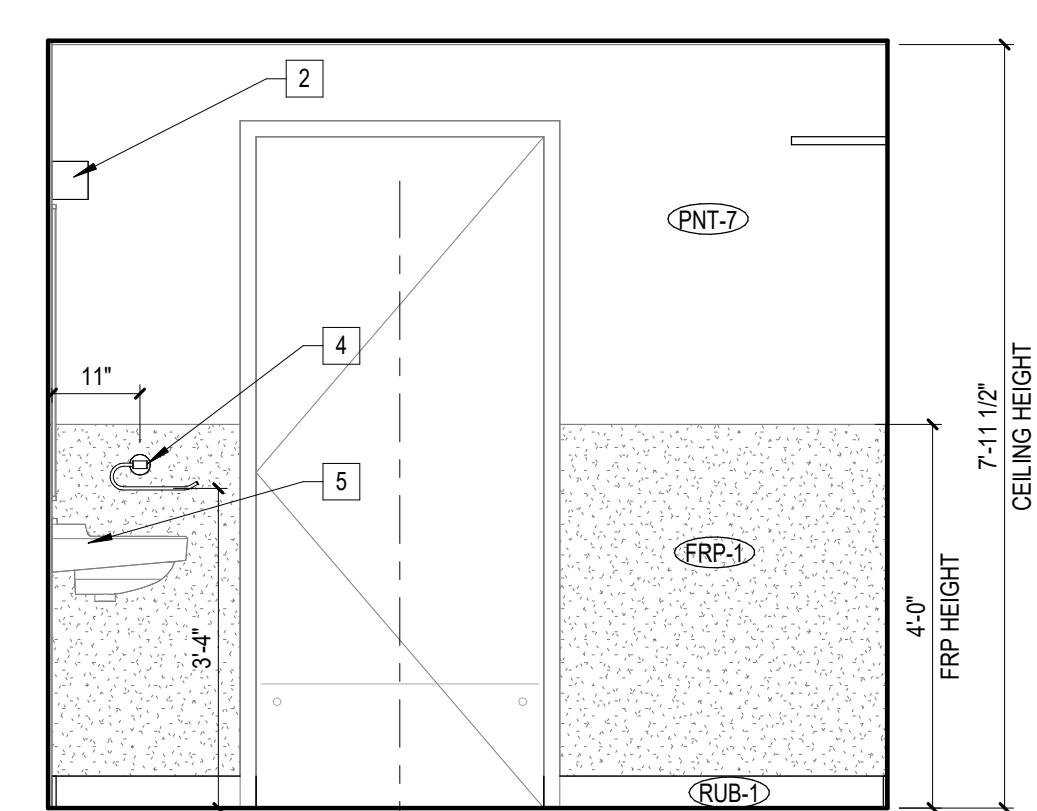
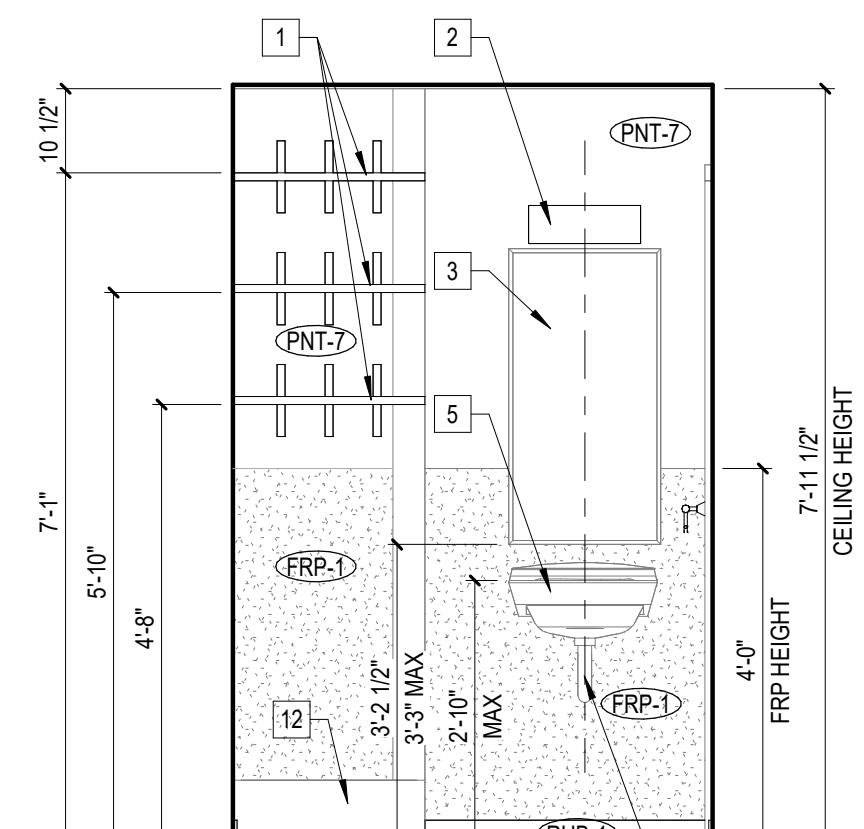
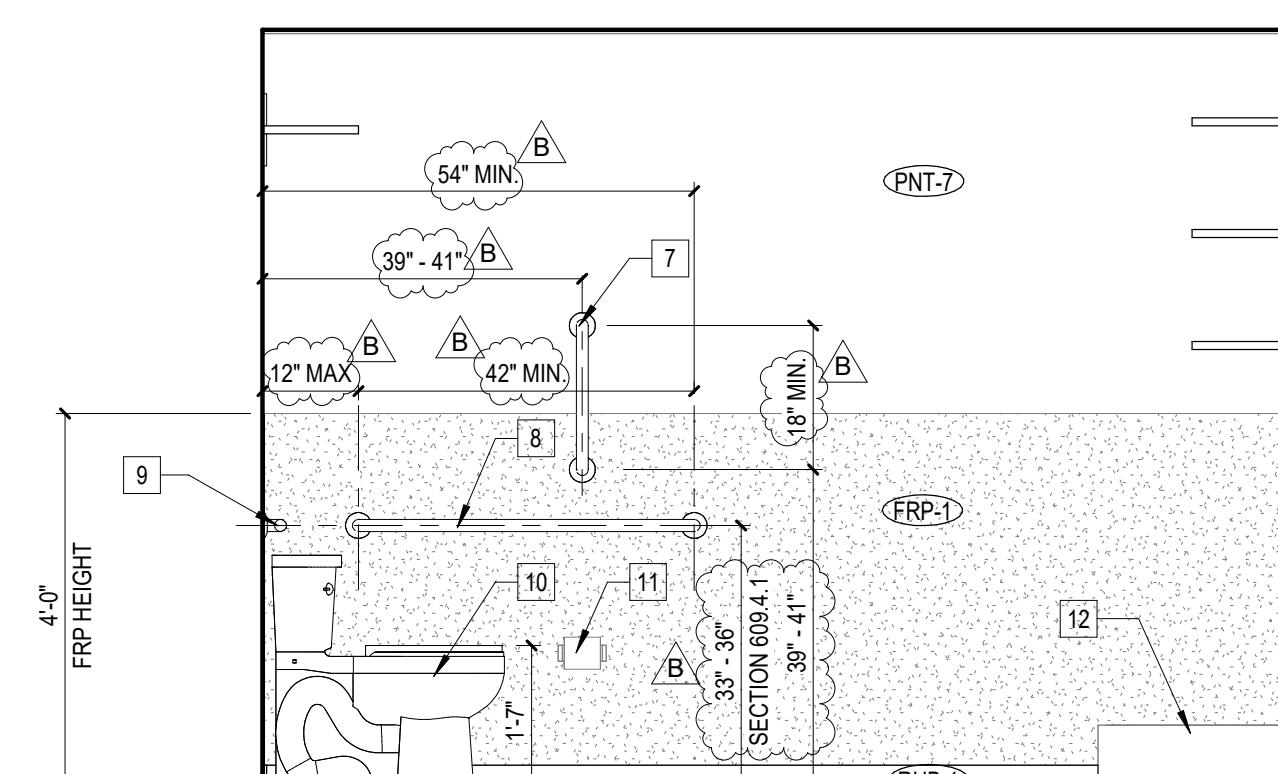
Project Component

3
Consultants
Architecture: NORR
Mechanical: NORR
Electrical: NORR**NORR**150 W. Jefferson Avenue, Suite 1300
Detroit, MI, US 48226
norr.comProject Manager M. SCHLOSSER Drawn Z. HONEINI
Project Leader M. SCHLOSSER Checked J. MARJI

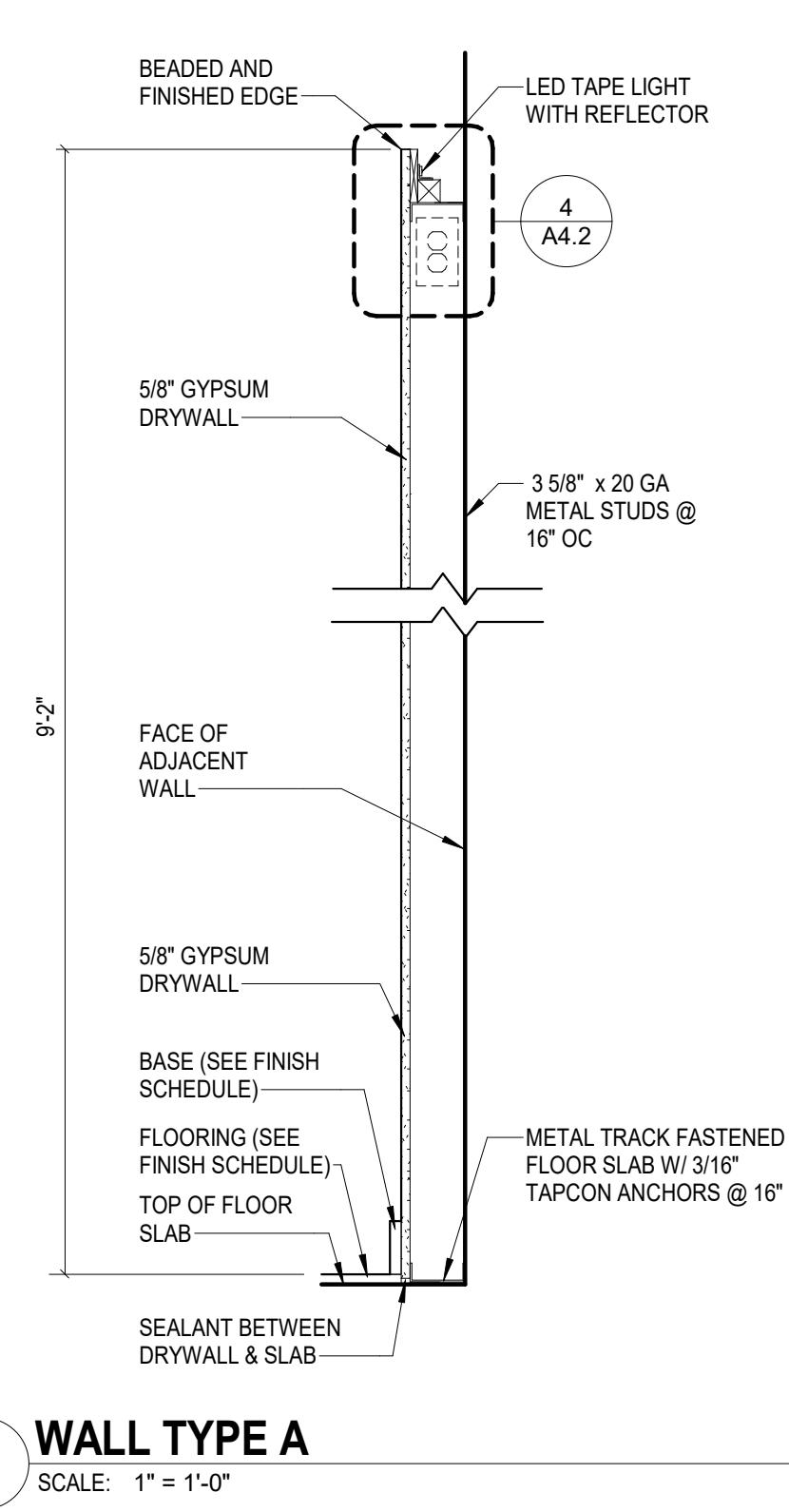
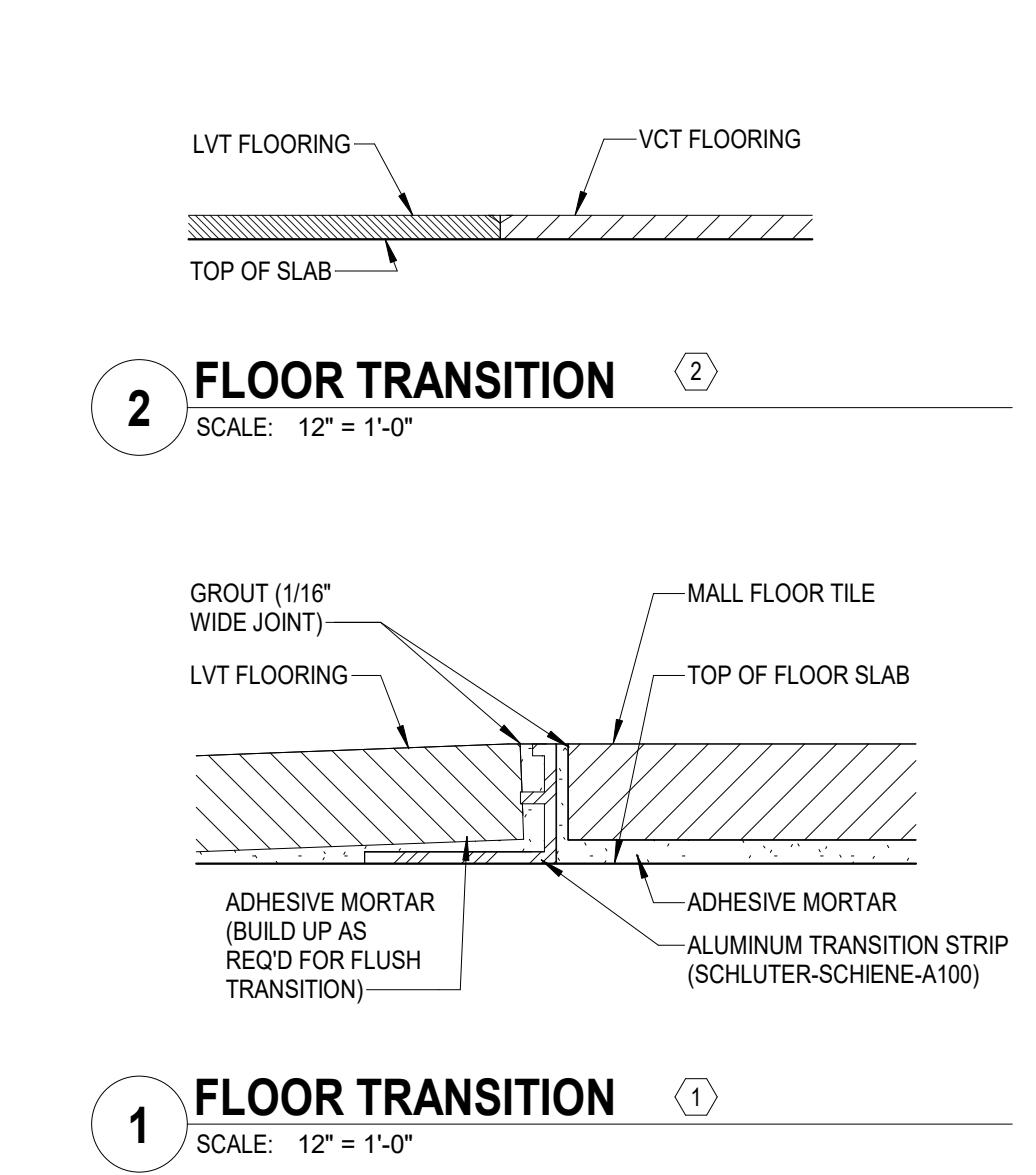
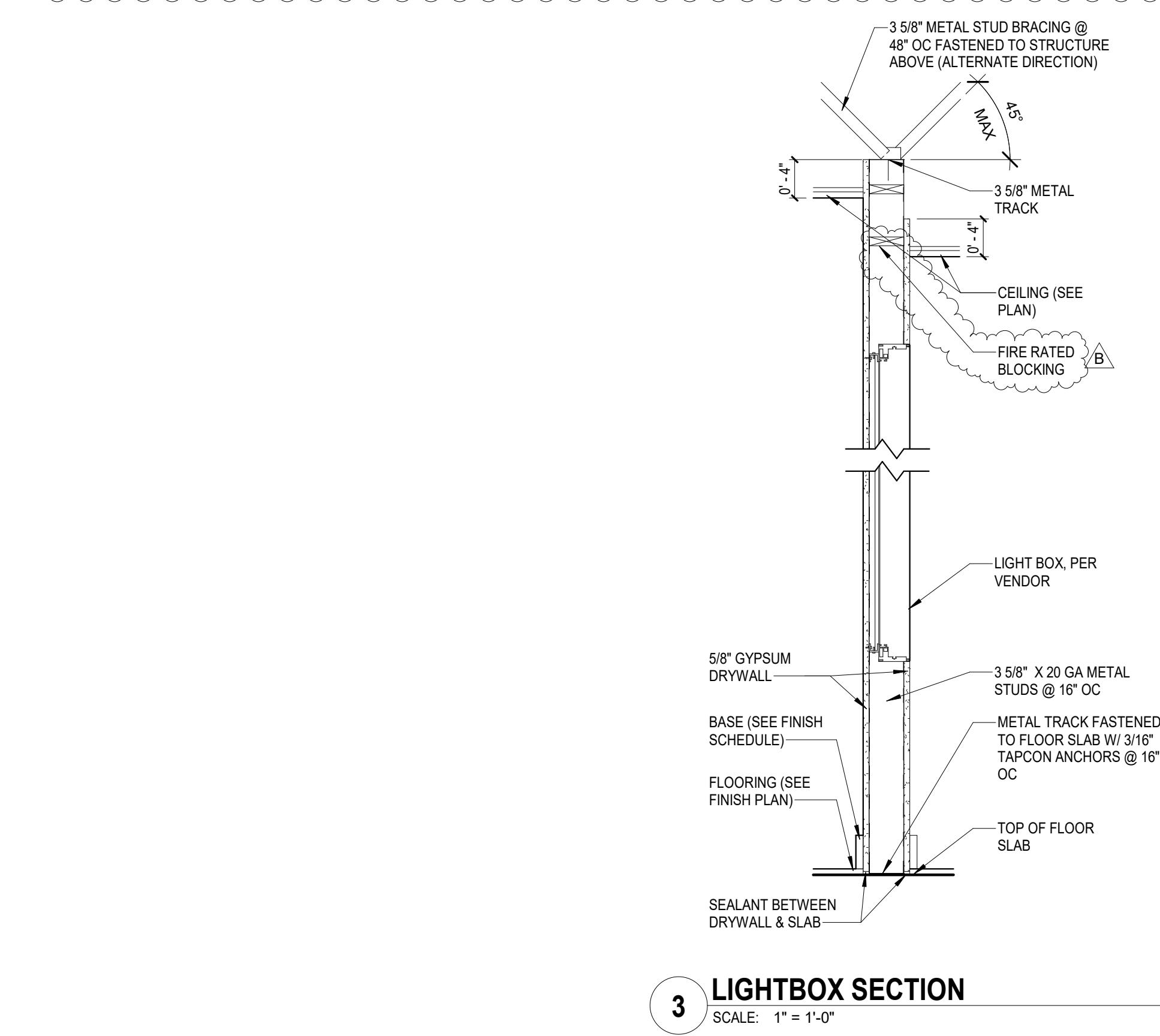
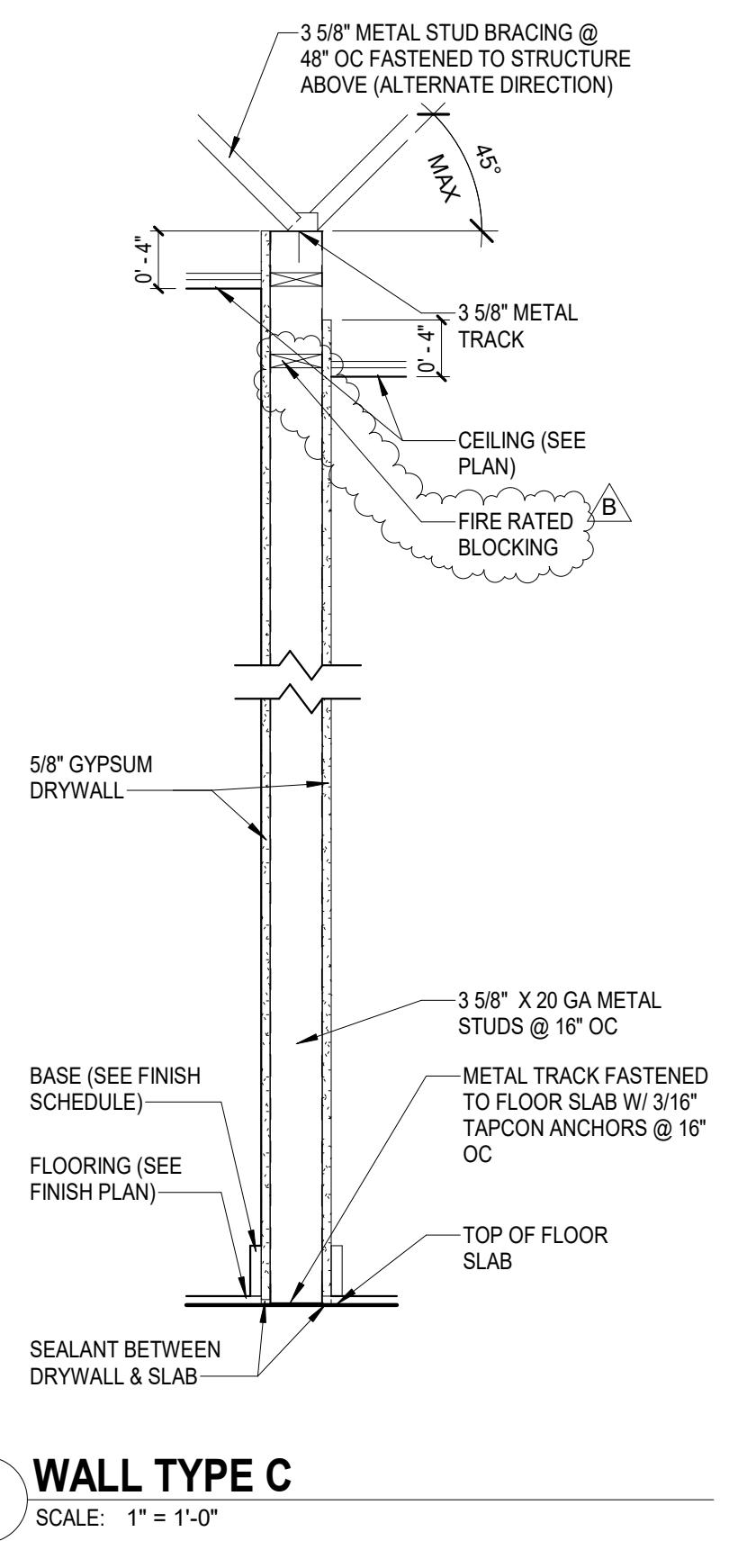
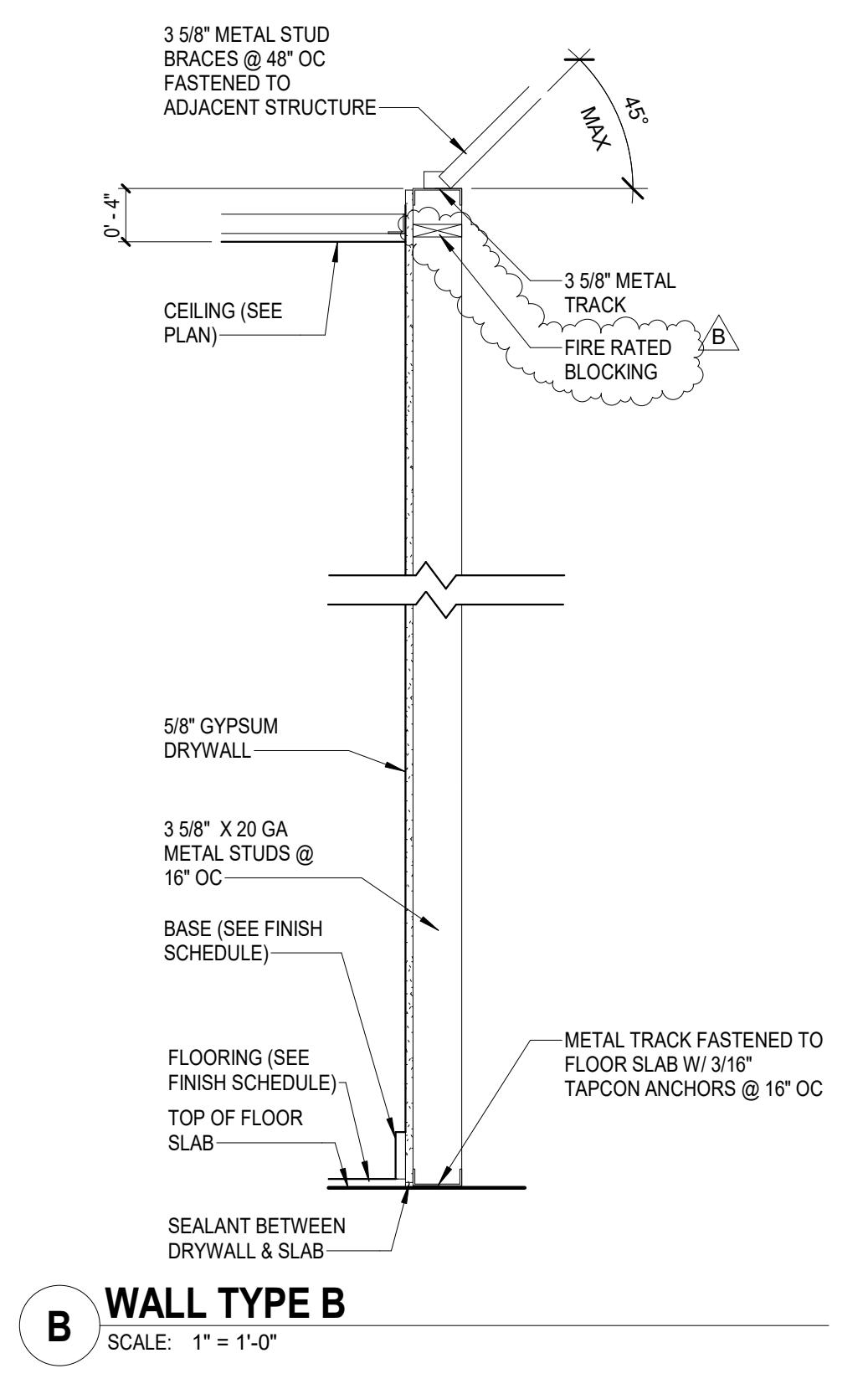
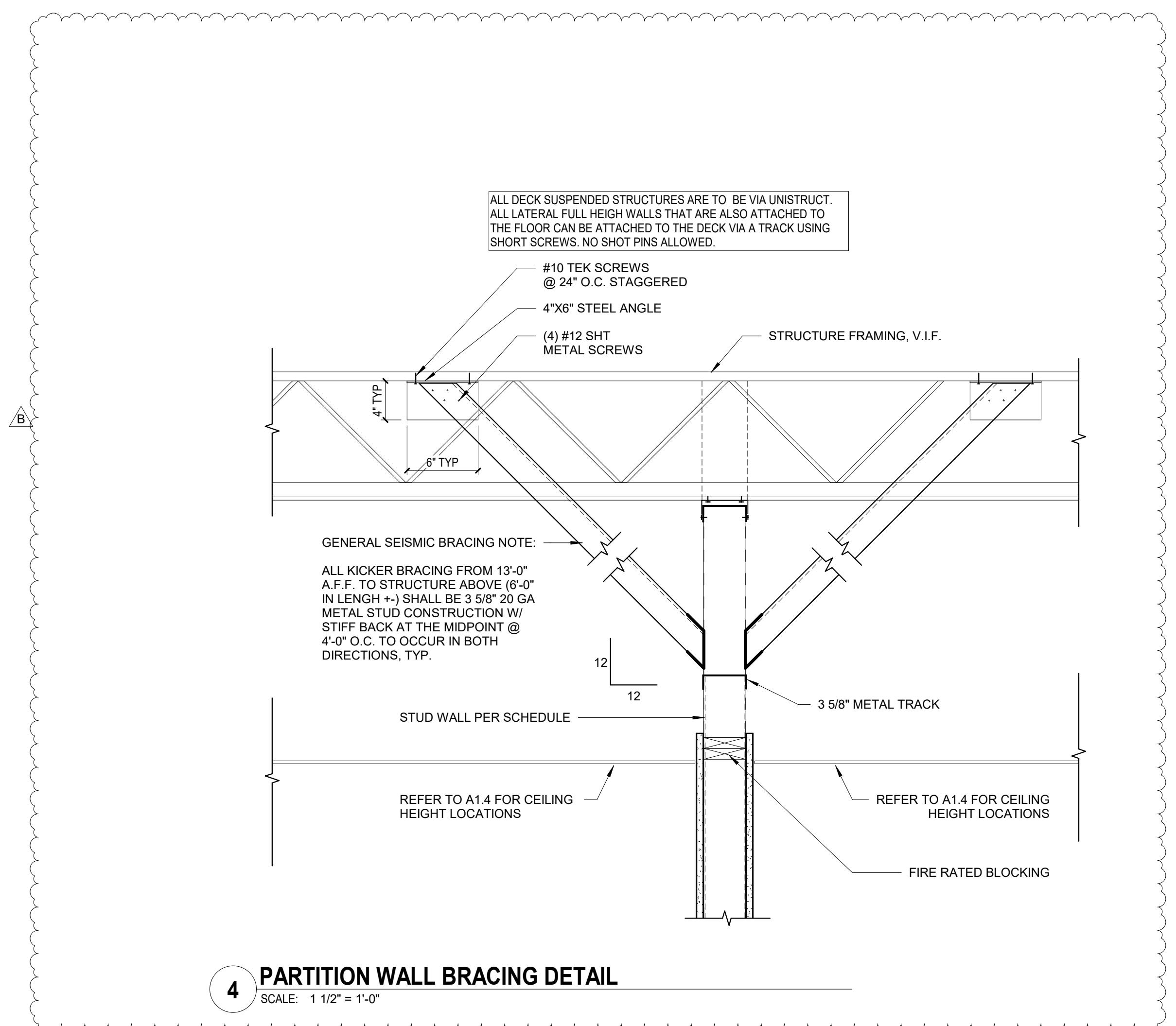
Client

PANDORAProject
PUYALLUP, WA

SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA

Drawing Title
TOILET ROOM PLAN & ELEVATIONSScale As indicated
Project No. RT2025-0388-99
Drawing No. A3.4

DATE	ISSUED FOR	REV
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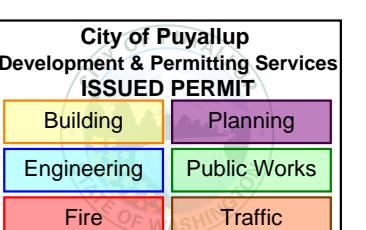


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Project Component



Consultants
Architecture: NORR
Mechanical: NORR
Electrical: NORR

Seal(s)
21009100
REGISTERED ARCHITECT
ANTHONY RICCIUTI STATE OF WASHINGTON
12-05-2025

NORR

150 W. Jefferson Avenue, Suite 1300
Detroit, MI, US 48226
norr.com

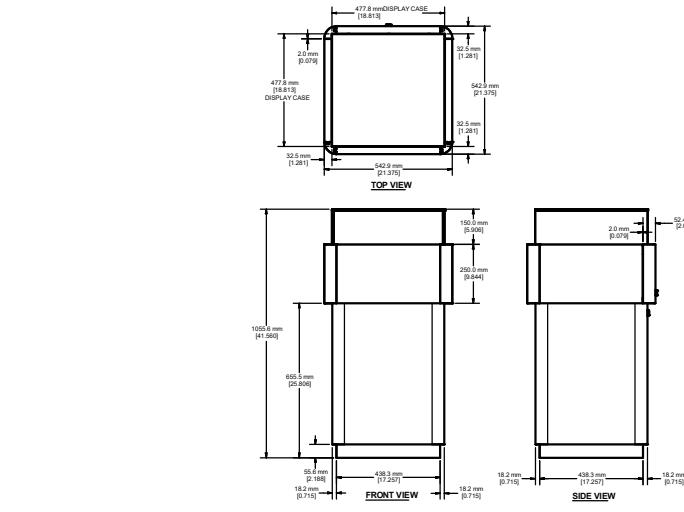
Project Manager M. SCHLOSSER Drawn Z. HONEINI
Project Leader M. SCHLOSSER Checked J. MARJI
Client PANDORA

Project PUYALLUP, WA
SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA

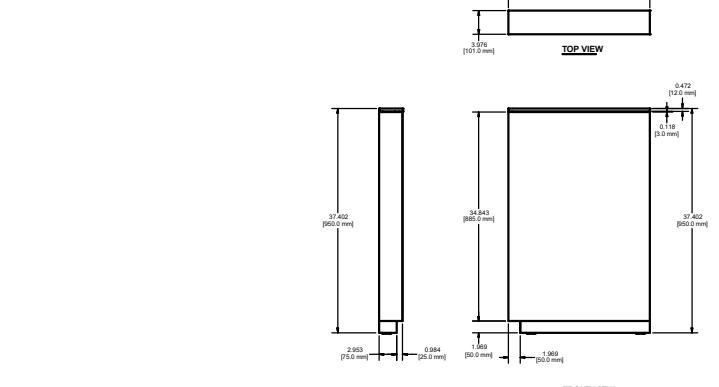
1

WALL TYPES AND DETAILS

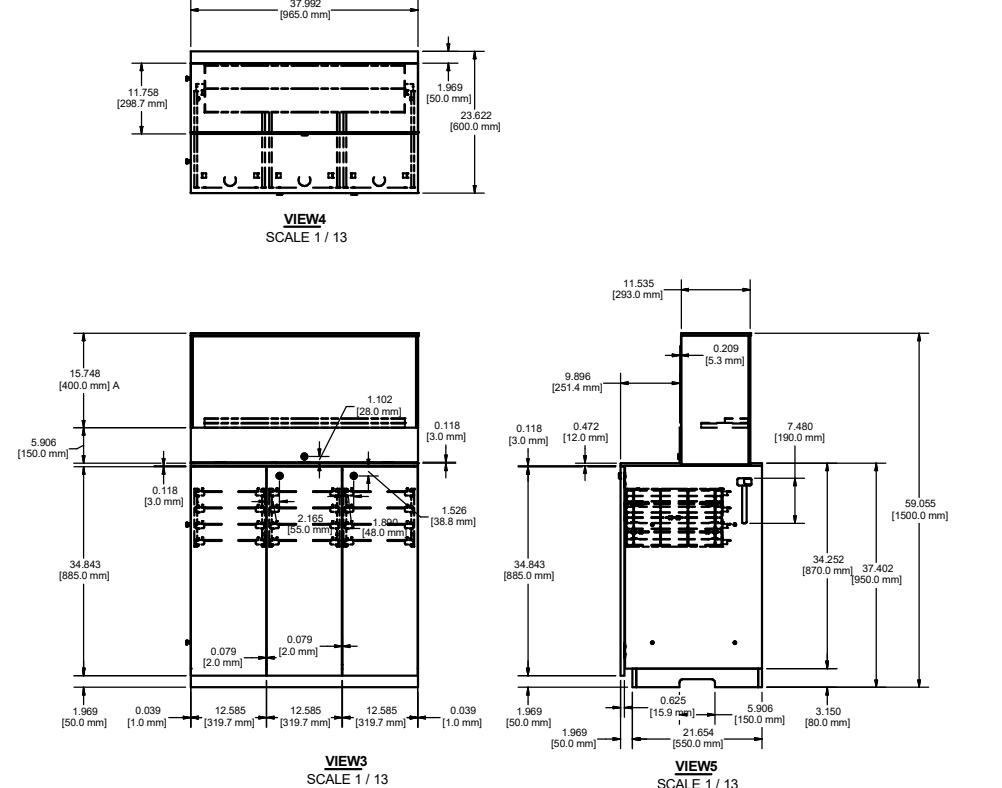
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Drawing No. A4.1
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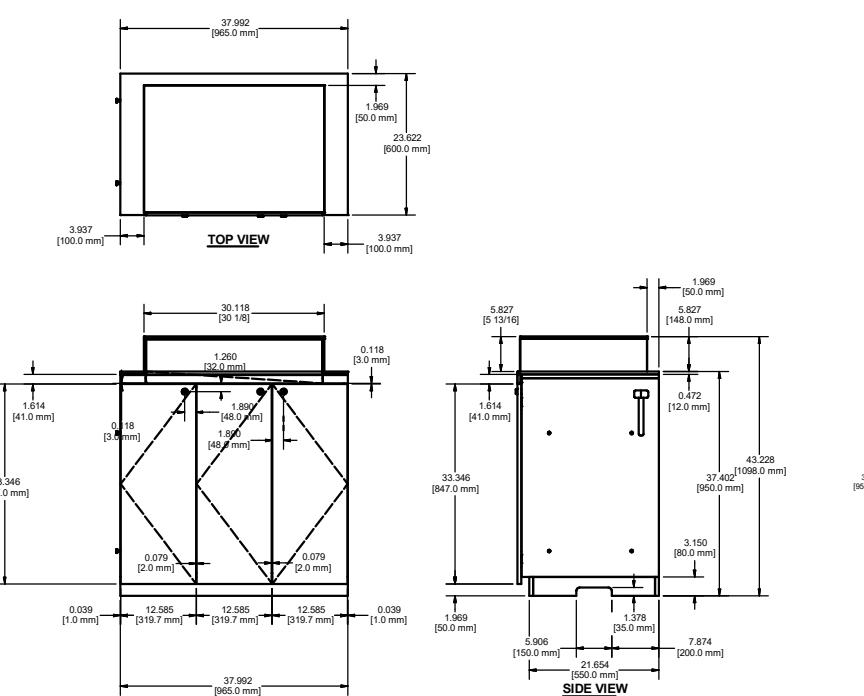
24 2.PLI.03 DETAILS



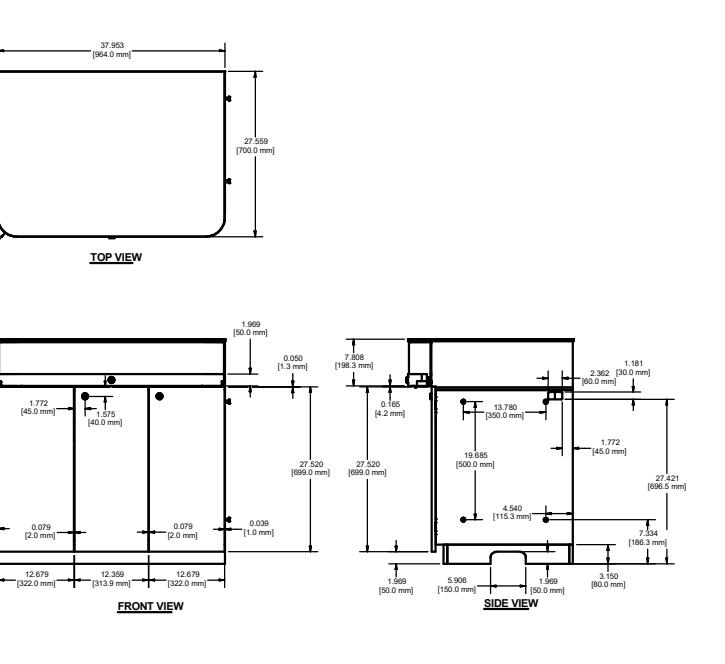
23 2.PER.R DETAILS



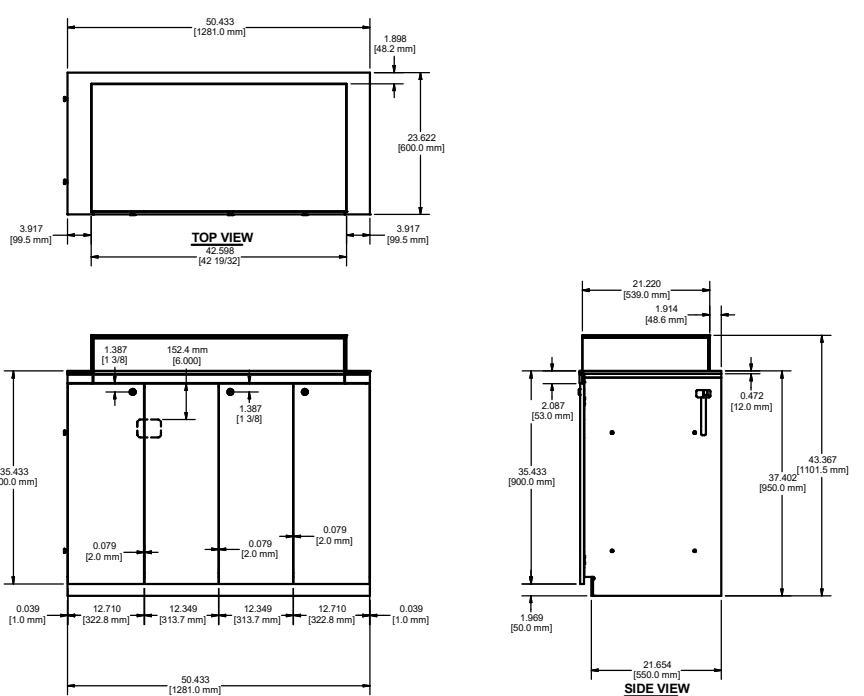
22 2.PER.09.3 DETAILS



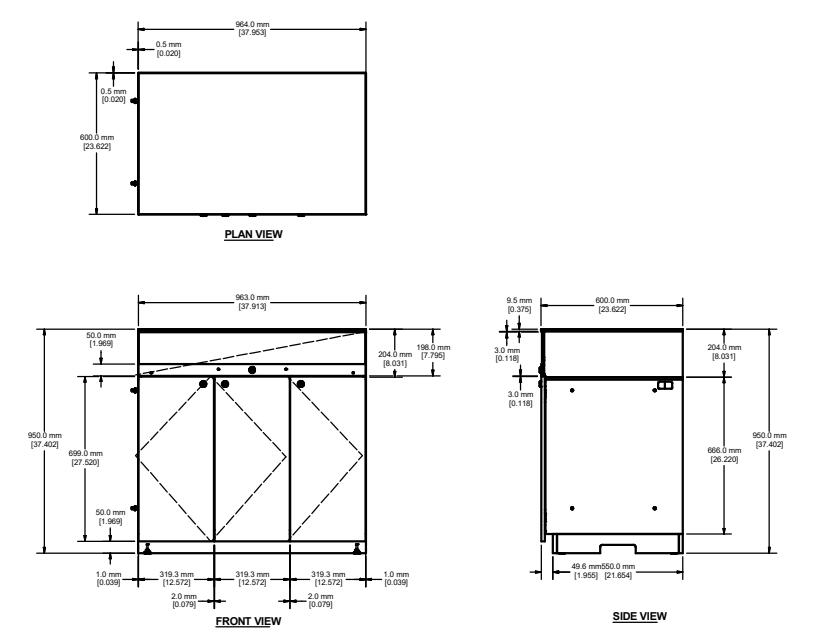
21 2.PER.09.2 DETAILS



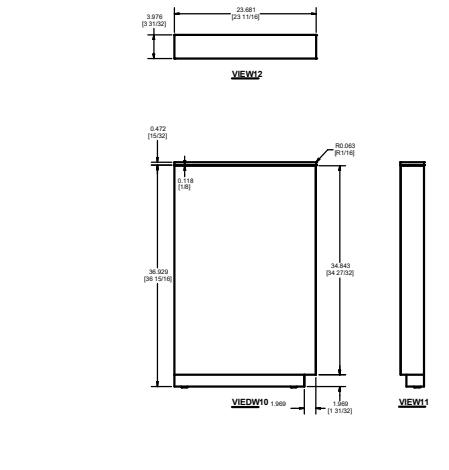
20 2.PER.09.1 DETAILS



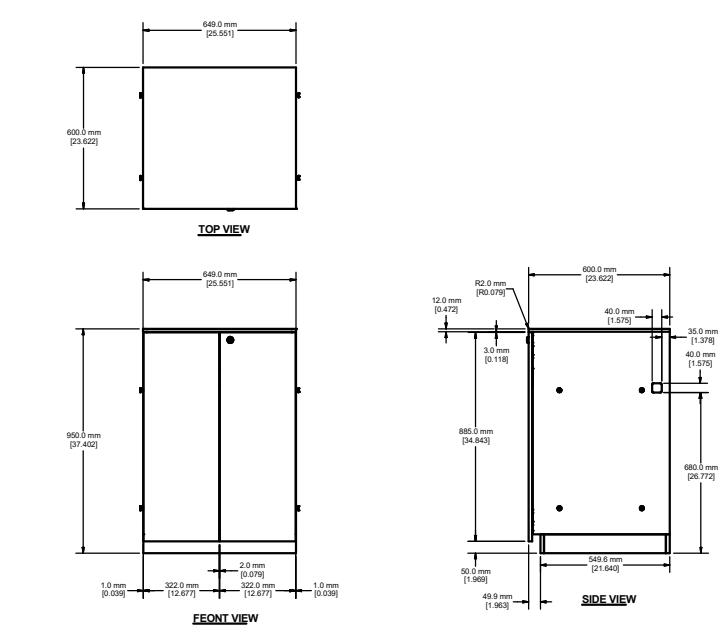
19 2.PER.12.2 DETAILS



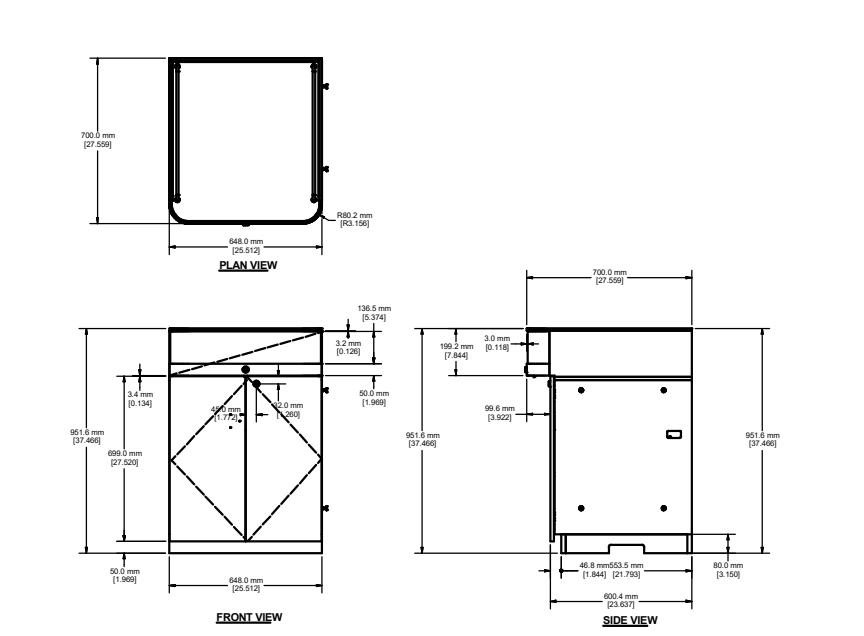
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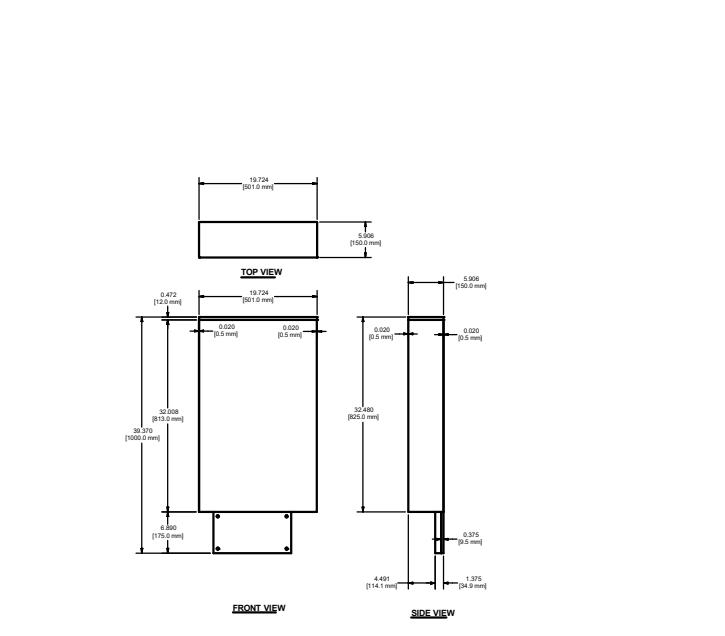
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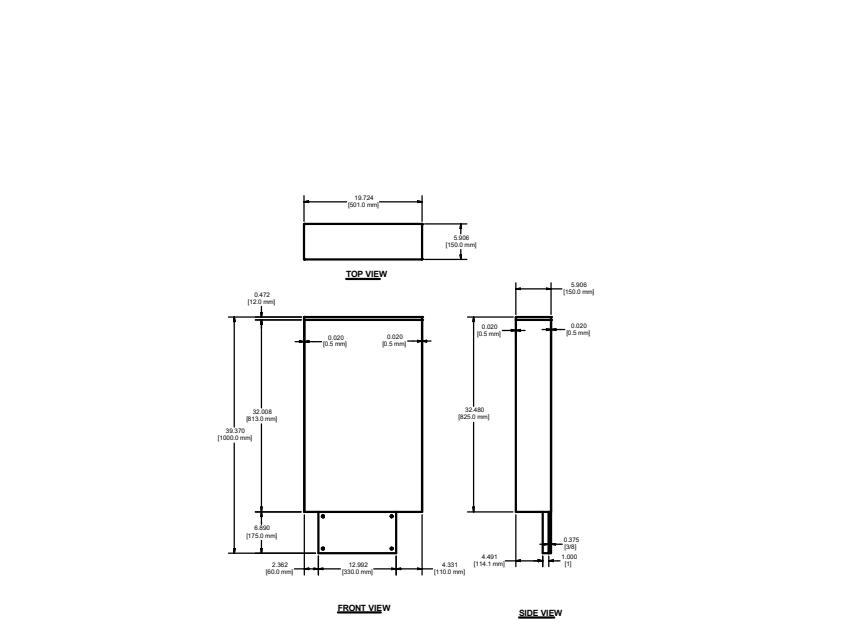
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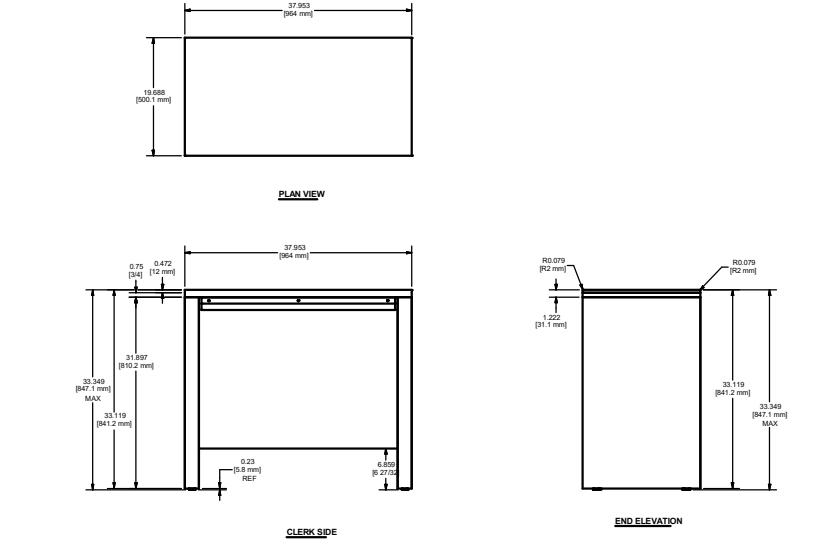
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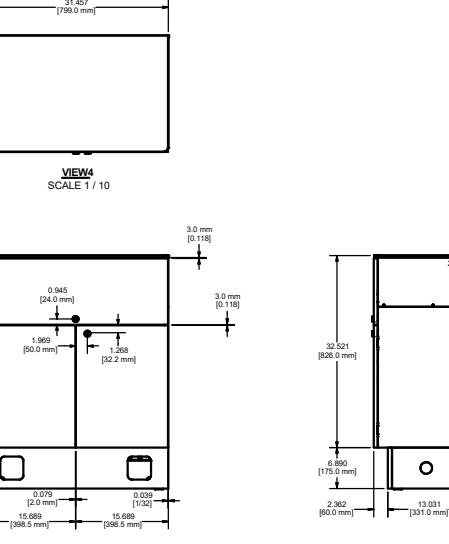
14 2.FRE.R DETAILS



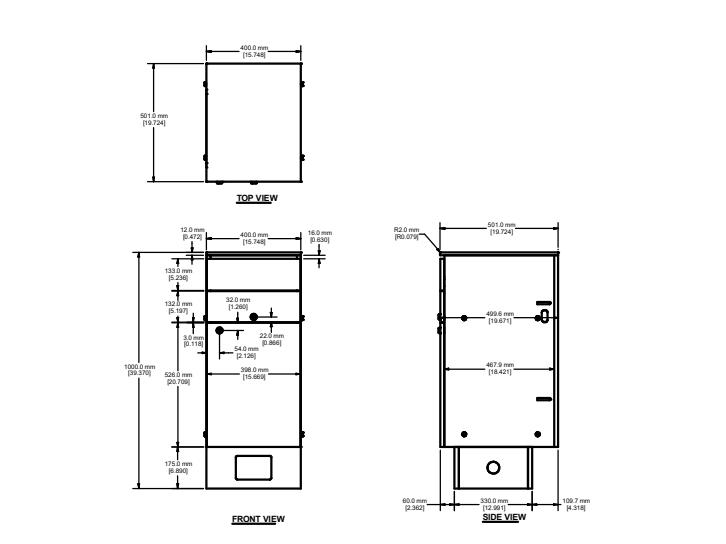
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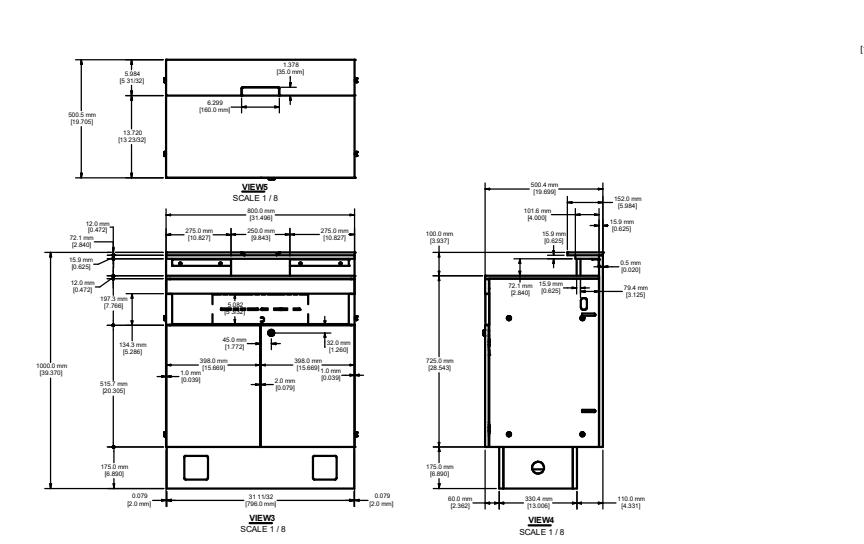
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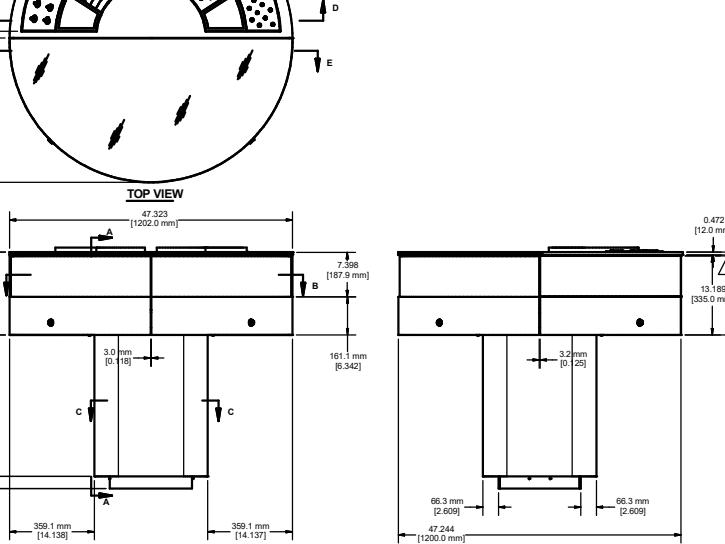
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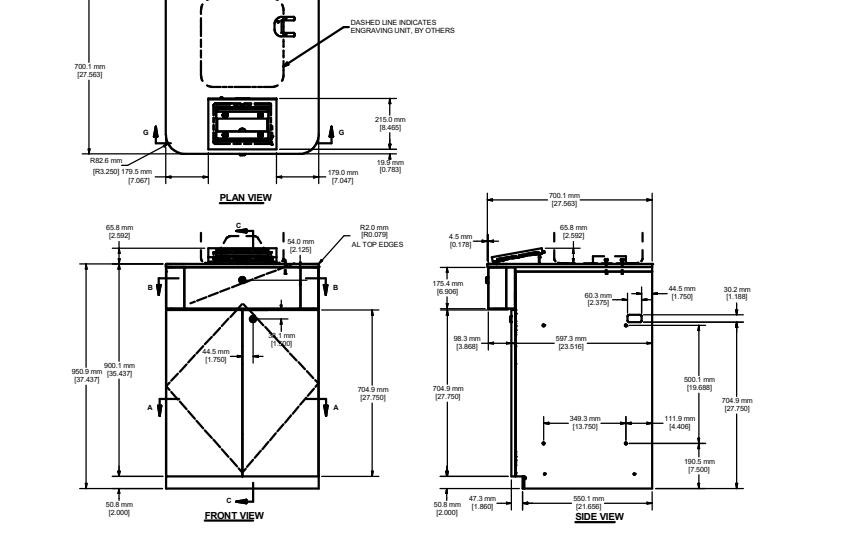
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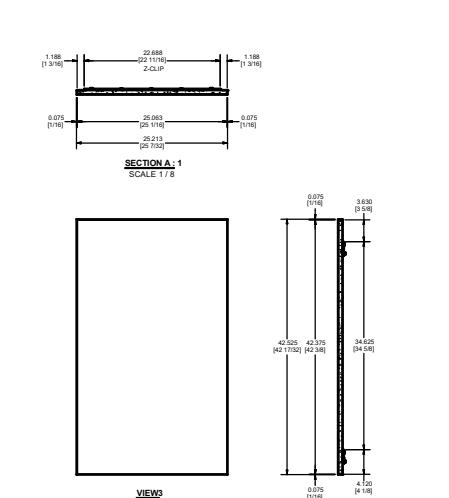
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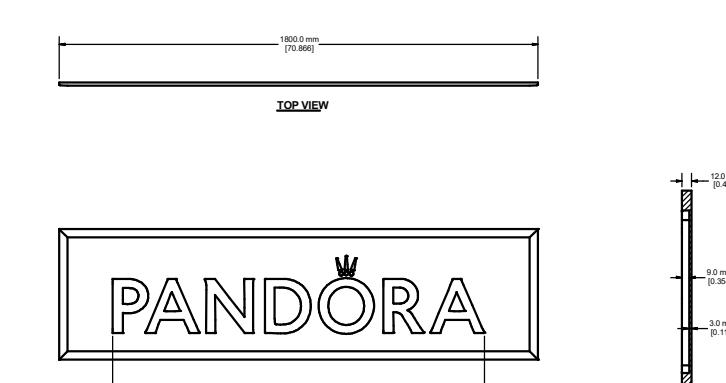
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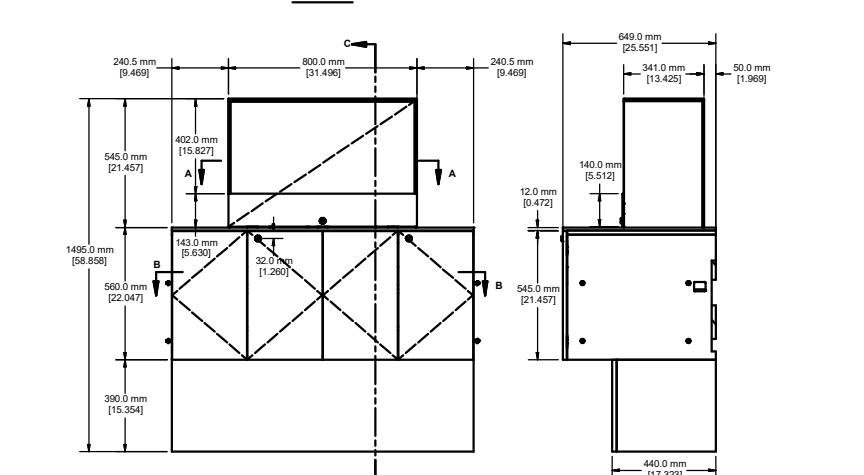
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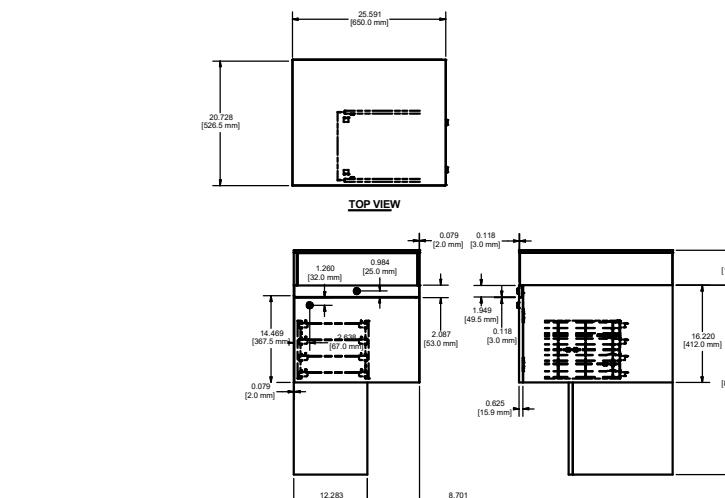
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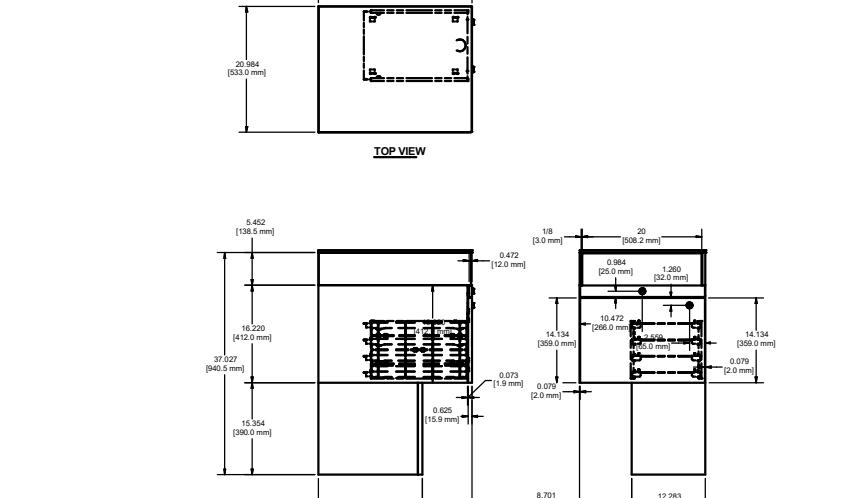
4 2.LGO.14.4 DETAILS



3 2.FLX.12 DETAILS



2 2.FLX.05.R DETAILS



1 2.FLX.05.L DETAILS

[ICC A117.1-2017 section 902.4]
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The tops of dining surfaces and work surfaces shall be 28 inches (710 mm) minimum and 34 inches (865 mm) maximum in height above the floor.

[2021 Washington State Building Code, section 1110.13.2]
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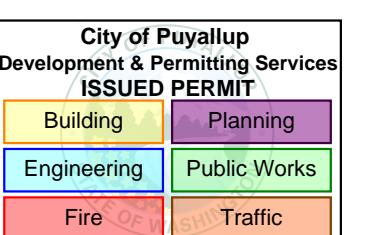
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09/26/2025	CLIENT REVIEW	
10/13/2025	PERMIT SET	
11/13/25	BID SET	A
12/04/25	ADDENDUM 1	B

PRCTI20251416

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Project Component



3

Consultants
Architecture: NORR
Mechanical: NORR
Electrical: NORR

Seal(s)
21009100
REGISTERED ARCHITECT
ANTHONY RICCIUTI
STATE OF WASHINGTON
12-05-2025

NORR

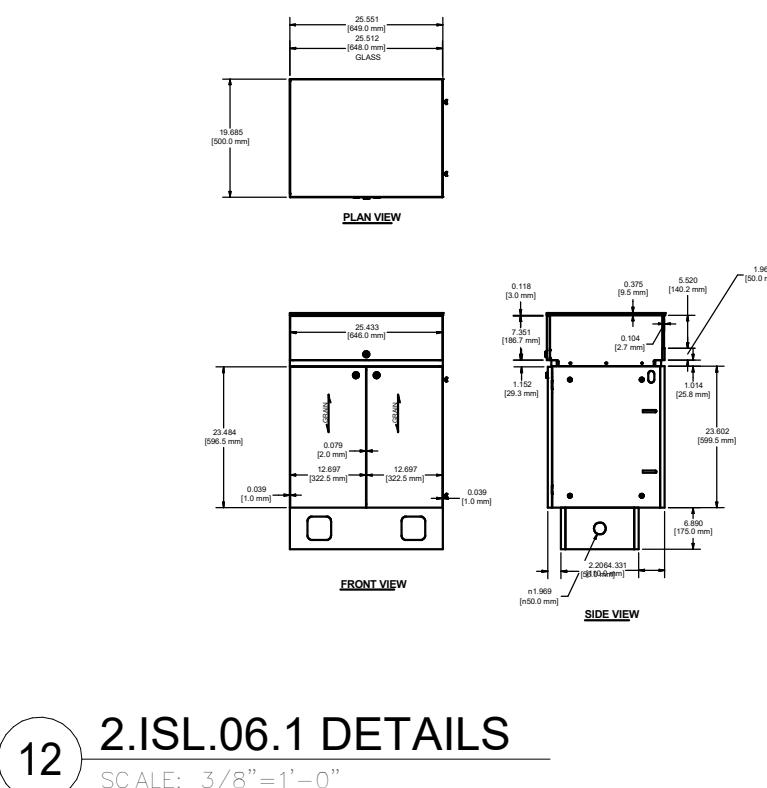
150 W. Jefferson Avenue., Suite 1300
Detroit, MI, US 48226
norr.com

Project Manager M. SCHLOSSER Drawn Z. HONEINI
Project Leader M. SCHLOSSER Checked J. MARJI
Client PANDORA

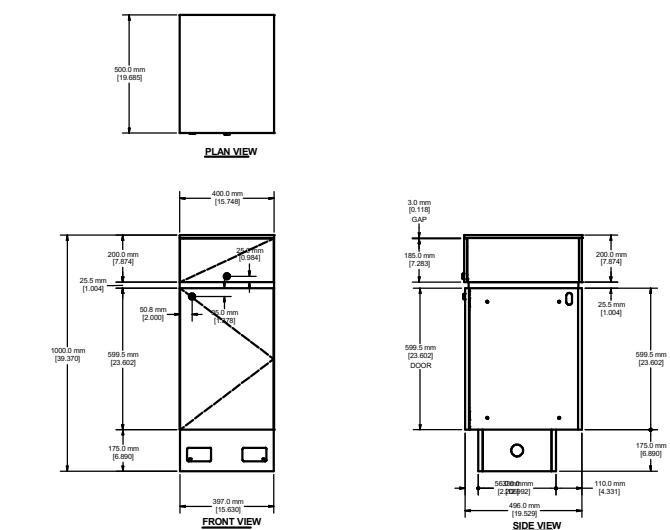
Project PUYALLUP, WA

SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA
Drawing Title FIXTURE DETAILS

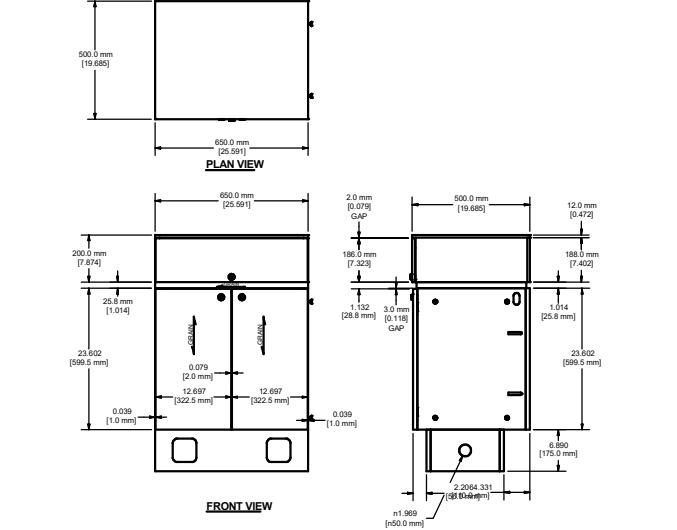
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Project No. RT2025-0388-99
Drawing No. A5.2



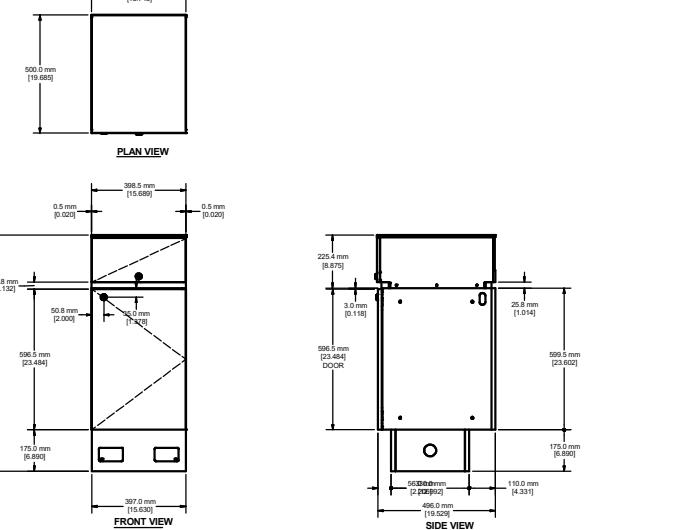
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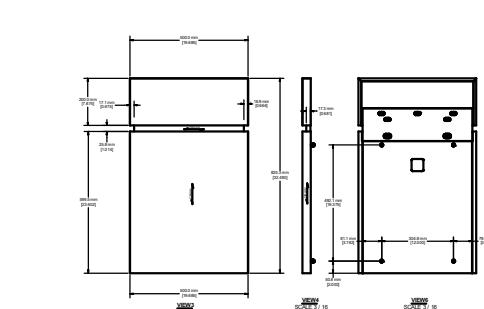
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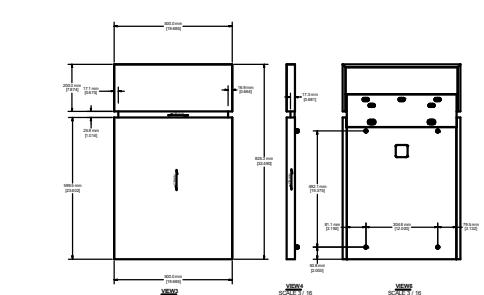
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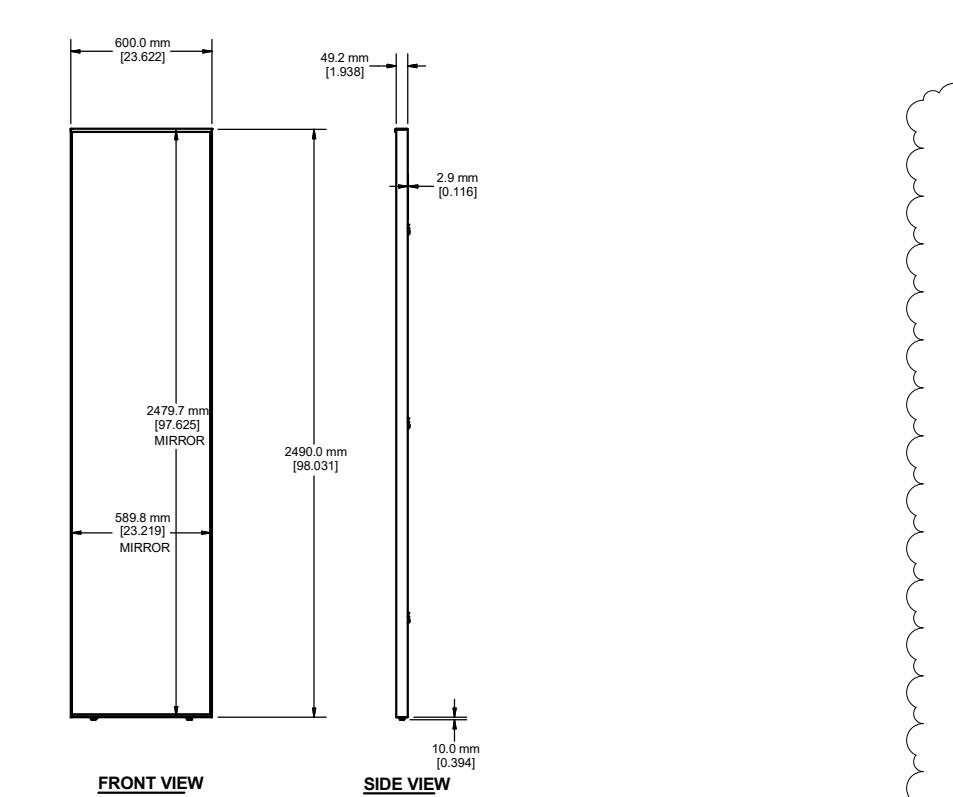
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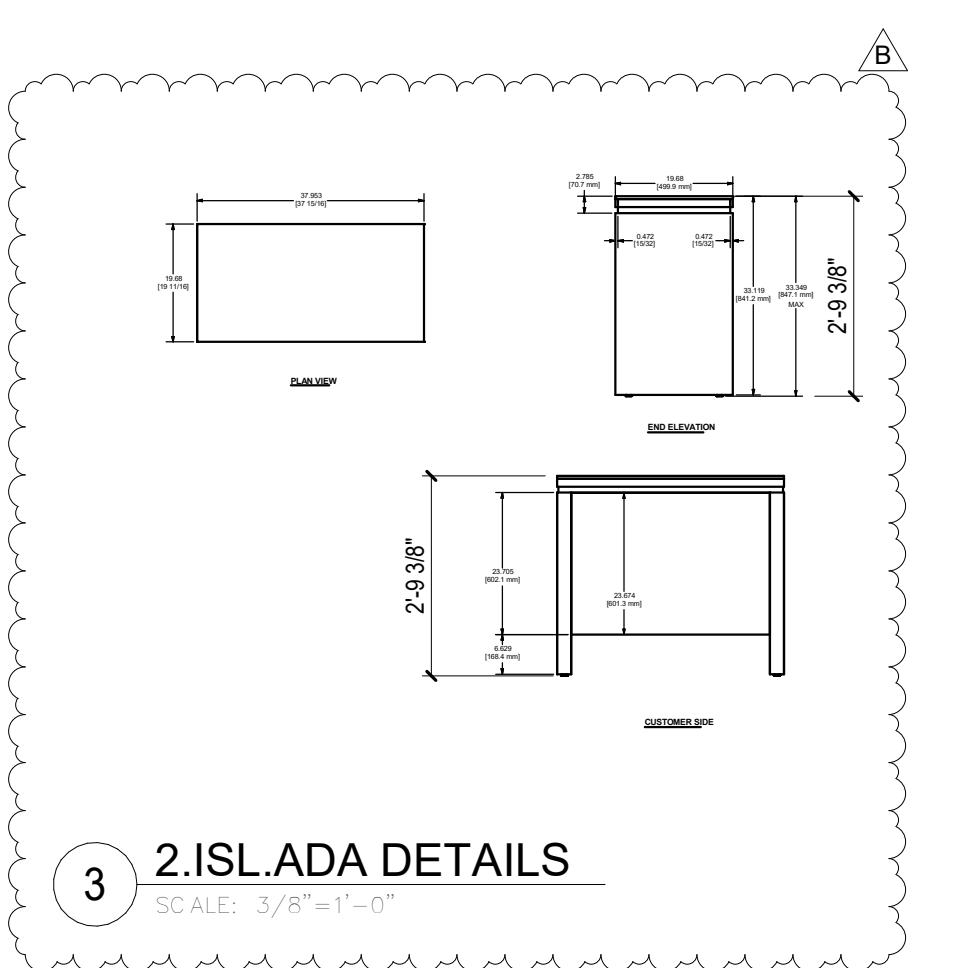
8 2.ISL.R DETAILS
SC ALE: 3/8"=1'-0"



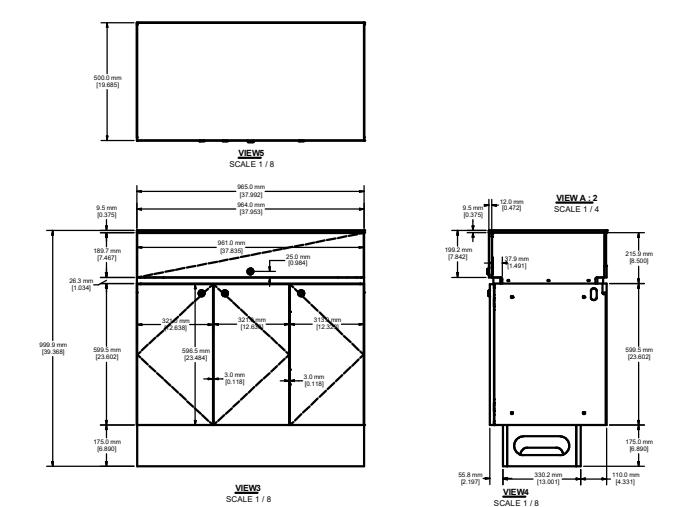
7 2.ISL.L DETAILS
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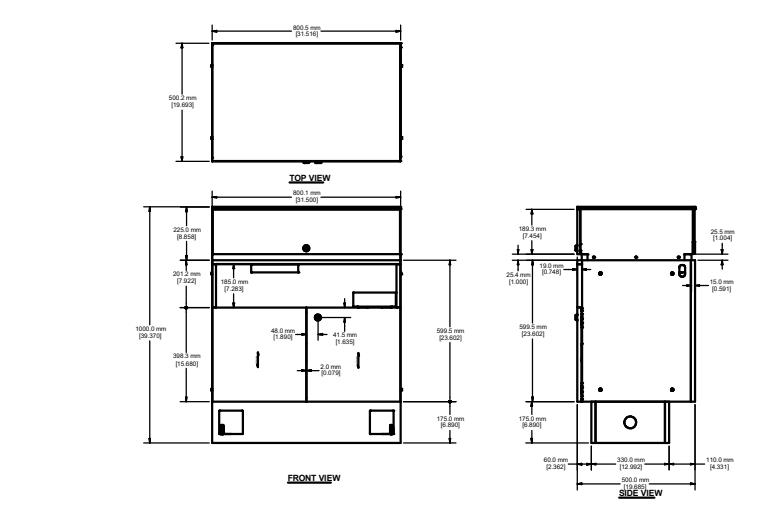
6 2.PMR.06.1 DETAILS
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3 2.ISL.ADA DETAILS
SC ALE: 3/8"=1'-0"



2 2.ISL.09.1 DETAILS
SC ALE: 3/8"=1'-0"



1 2.ISL.08.3 DETAILS
SC ALE: 3/8"=1'-0"

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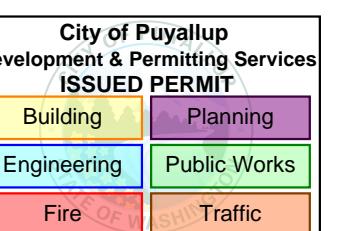
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REGISTERED ARCHITECT
ANTHONY RICOUTI STATE OF WASHINGTON
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2
150 W. Jefferson Avenue., Suite 1300
Detroit, MI, US 48226
norr.com

Project Manager M. SCHLOSSER Drawn Z. HONEINI
Project Leader Checked J. MARJI

Client
PANDORA

Project
PUYALLUP, WA

SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA
Drawing Title FIXTURE DETAILS

Scale 3/8" = 1'-0"
Project No. RT2025-0388-99
Drawing No. A5.3
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DIVISION 1 - GENERAL REQUIREMENTS

1. AWARD AND REJECTION OF BIDS: THE CONTRACT WILL BE AWARDED TO A RESPONSIBLE BIDDER COMPLYING WITH THESE INSTRUCTIONS, PROVIDED HIS BID IS REASONABLE IN THE JUDGMENT OF THE TENANT. THE TENANT HOWEVER, RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS, AND TO WAIVE ANY INFORMATION IN BIDS RECEIVED. THE COMPETENCY AND RESPONSIBILITY OF BIDDERS AND OF THEIR PROPOSED SUBCONTRACTORS WILL BE CONSIDERED IN MAKING THE AWARDS.

2. WITHDRAWAL OF BIDS: BIDS MAY BE WITHDRAWN BY THE BIDDER PRIOR TO, BUT NOT AFTER THE TIME DESIGNATED FOR RECEIPT OF BIDS.

3. THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION DOCUMENT A-201, ISSUED BY THE AMERICAN INSTITUTE OF ARCHITECTS, CURRENT EDITION RELATES TO THE WORK OF THIS PROJECT AND IS HEREBY MADE A PART OF THESE CONTRACT DOCUMENTS, UTILIZING AIA DOCUMENT A-107 "STANDARD FORM OF AGREEMENT" BETWEEN OWNER AND CONTRACTOR AS THE CONTRACT DOCUMENT.

4. THE TENANT'S GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY NUMBER OF COPIES OF DOCUMENT A-201, TO ACQUAINT THEMSELVES WITH THE ARTICLES CONTAINED THEREIN AND TO REVIEW WITH ALL SUB-CONTRACTORS, SUPPLIERS, AND ANY OTHER PARTIES TO THE CONTRACT OR INDIVIDUALS OR AGENCIES ENGAGED ON THE WORK AS TO ITS CONTENTS.

5. THE TENANT AND THE ARCHITECT, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK, ALTER, ADD TO, OR DEDUCT FROM THE CONTRACT WORK. THE CONTRACT SUM SHALL BE ADJUSTED ACCORDINGLY AND SUCH COSTS SHALL BE COMPETITIVE WITH LOCAL CONSTRUCTION COST.

6. WHEN BIDDING THIS PROJECT, EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING AND VERIFYING EXISTING CONDITIONS AS REFLECTED IN THESE CONTRACT DOCUMENTS. ANY EXTRA WORK REQUIRED BUT NOT INCLUDED IN THE DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT.

7. THE GENERAL CONTRACTOR IS REQUIRED TO FAMILIARIZE ALL PERSONS AND SUB-CONTRACTORS WORKING ON THIS PROJECT WITH THESE GENERAL NOTES AND THE CONTRACT DOCUMENTS NOTED IN THESE DRAWINGS. LANDLORD'S DESIGN CRITERIA, AND THE EXECUTED LEASE AGREEMENT BETWEEN LANDLORD AND TENANT. THE TENANT'S GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY ACQUAINTING HIMSELF WITH THE CONTENTS AND THE SCOPE OF THESE SPECIFICATIONS, AND SPECIAL ATTENTION SHOULD BE GIVEN TO THE SPECIFICATIONS THROUGHOUT THE SPAN OF THE PROJECT BY THE TENANT'S GENERAL CONTRACTORS, SUPERVISORS, AND SUB-CONTRACTORS, AS THE STANDARD ESTABLISHED HEREIN SHALL BE APPLIED, WITH EMPHASIS TO ALL WORK, WORK DECLARED UNACCEPTABLE BY THE OWNER SHALL BE CORRECTED IN A MANNER AND TO A DEGREE OF QUALITY AS ACCEPTABLE BY THE OWNER.

8. TENANT'S GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS ARE REQUIRED TO FURNISH THE FOLLOWING MINIMUM COVERAGE AND LIMITS OF LIABILITY. IF LANDLORD'S REQUIREMENT(S) ARE MORE NUMEROUS IN TYPE OF COVERAGE OR MORE STRINGENT, THE GENERAL CONTRACTOR IS REQUIRED TO ADHERE TO THE ADDITIONAL REQUIREMENTS AND THE MOST STRINGENT OF THESE REQUIREMENTS.

a. WORKMAN'S COMPENSATION, AS REQUIRED BY STATE LAW, AND INCLUDING EMPLOYER'S LIABILITY INSURANCE WITH A LIMIT OF NO LESS THAN \$2,000,000 AND ANY INSURANCE REQUIRED BY ANY EMPLOYEE BENEFITS ACT OR OTHER STATUTES APPLICABLE WHERE THE WORK IS TO BE PERFORMED AND WILL PROTECT THE CONTRACTOR AND SUBCONTRACTORS FROM ANY AND ALL LIABILITY UNDER THE AFOREMENTIONED ACTS.

b. COMPREHENSIVE GENERAL LIABILITY INSURANCE (INCLUDING CONTRACTOR'S PROTECTIVE LIABILITY) IN ANY AMOUNT NOT LESS THAN \$2,000,000 FOR ANY ONE OCCURRENCE WHETHER INVOLVING BODILY INJURY LIABILITY (OR DEATH) RESULTING THERE FROM OR PROPERTY DAMAGE LIABILITY OR A COMBINATION THEREOF WITH A AGGREGATE LIMIT OF \$2,000,000. SUCH INSURANCE SHALL PROVIDE FOR EXPLOSION, COLLAPSE, AND UNDERGROUND COVERAGE. SUCH INSURANCE SHALL INSURE TENANT'S GENERAL CONTRACTOR AGAINST ANY AND ALL CLAIMS FOR BODILY INJURY, INCLUDING DEATH RESULTING THEREFROM AND DAMAGE TO OR DESTRUCTION OF PROPERTY, AND ANY KIND WHATSOEVER AND TO WHOMEVER BELONGING AND ARISING FROM HIS OPERATIONS UNDER THE CONTRACT AND WHETHER SUCH OPERATIONS ARE PERFORMED BY TENANT'S GENERAL CONTRACTOR, SUBCONTRACTORS, OR BY ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM.

9. GENERAL CONTRACTOR SHALL PROVIDE OWNER'S PROTECTIVE LIABILITY INSURANCE WHICH WILL INSURE GENERAL CONTRACTOR AGAINST ANY AND ALL LIABILITY TO THIRD PARTIES FOR DAMAGE BECAUSE OF BODILY INJURY LIABILITY (OR DEATH RESULTING THERE FROM) OR PROPERTY DAMAGE LIABILITY OF OTHERS OF A COMBINATION THEREOF WHICH MAY ARISE FROM WORK IN CONNECTION WITH THE LEASED PREMISES, AND ANY OTHER LIABILITY FOR DAMAGES WHICH THE TENANT'S GENERAL CONTRACTOR AND/OR SUBCONTRACTORS ARE REQUIRED TO INSURE AGAINST UNDER ANY PROVISIONS HEREIN. SAID INSURANCE SHALL BE PROVIDED IN MINIMUM AMOUNTS AS FOLLOWS:

a. BODILY INJURY, PER OCCURRENCE FOR PERSONAL INJURY AND/OR DEATH: \$5,000,000

b. PROPERTY DAMAGE LIABILITY: \$5,000,000

10. THE GENERAL CONTRACTOR IS REQUIRED TO LIST ALL ADDITIONAL INSURED AS PER LANDLORD'S CRITERIA IN ADDITION TO THE TENANT'S ARCHITECT. INSURANCE REQUIREMENTS NOT OBTAINED BY THE GENERAL CONTRACTOR, AS NOTED ON THE DRAWINGS AND IN THESE SPECIFICATIONS WILL NOT RELIEVE THE GENERAL CONTRACTOR OF THE RESPONSIBILITY OF LIABILITY(S) FOR THIS PROJECT. A COPY OF ALL INSURANCE PAPERS IS TO BE SENT DIRECTLY TO THE TENANT, NOT ONLY FOR REVIEW BUT FOR RECORD DOCUMENT.

11. GUARANTEED FOR ALL WORK BY SUB-CONTRACTORS SHALL BE FOR A PERIOD OF ONE YEAR, UNLESS OTHERWISE NOTED. AT TIME OF FINAL SUBMITTAL FOR ALL COST, INCLUDING BASE BID, EXTRAS, AND CREDITS, THE SUB-CONTRACTORS SHALL FURNISH TO THE GENERAL CONTRACTOR A WRITTEN GUARANTEE STIPULATING THAT, AT NO ADDITIONAL COST TO THE GENERAL CONTRACTOR OR TENANT, ANY DEFECTIVE WORK OR MATERIALS SHALL BE REPAIRED OR REPLACED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF WORK, UNLESS OTHERWISE NOTED. IF SUCH WORK AFFECTS LANDLORD'S WORK, LANDLORD'S WORK IS TO BE COMPLETED BY THE SUB-CONTRACTOR AT NO COST TO THE TENANT.

12. ALL PAYMENTS MADE TO THE GENERAL CONTRACTOR FOR THIS PROJECT ARE TO BE ALLOCATED FOR THIS PROJECT ONLY FOR PAYMENTS TO SUB-CONTRACTORS, MATERIAL SUPPLIERS, AND AGENTS AUTHORIZED BY THIS CONTRACT TO PERFORM WORK OR SUPPLY MATERIAL TO THIS PROJECT ONLY. THE GENERAL CONTRACTOR IS REQUIRED TO SUBMIT PARTIAL WAIVERS OR LIENS FOR HIS WORK AS WELL AS SUB-CONTRACTORS OR MATERIAL SUPPLIERS UPON REQUEST OF THE CLIENT OR CLIENT'S ARCHITECT. THE REQUEST FOR PAYMENT OF THE FINAL 10% RETENTION ON THIS PROJECT MUST INCLUDE SIGNED AND EXECUTED WAIVERS OF LIEN INDICATING 100% COMPLETION AND 100% PAYMENT IN FULL, BY SUB-CONTRACTORS AND MATERIAL SUPPLIERS.

13. NO EXTRAS FOR COSTS CAN BE AUTHORIZED UNLESS APPROVED BY THE ARCHITECT, THE PROJECT MANAGEMENT COMPANY FOR THE TENANT, OR THE TENANT. AN ISSUANCE OF CREDITS TO BE CALCULATED BASED ON COMPETITIVE RATES AND EQUIPMENT COSTS APPROVED BY THE ARCHITECT, THE PROJECT MANAGEMENT COMPANY FOR THE TENANT, OR TENANT.

14. THE CONTRACTOR AGREES THAT IN PERFORMANCE OF THE WORK CALLED FOR BY THE CONTRACT, THEY WILL ONLY SUCH LABOR AS WILL NOT DELAY OR INTERFERE WITH THE PROGRESS OF THE PROJECT AND AS WILL BE ACCEPTABLE TO AND WORK IN HARMONY WITH ALL OTHER CONTRACTORS EMPLOYED ON THE CONSTRUCTION SITE OR ON ANY OTHER BUILDING, STRUCTURE, OR OTHER IMPROVEMENT FOR WHETHER PUBLIC OR PRIVATE WHICH GENERAL CONTRACTOR MAY THEN BE ERECTING OR ALTERING IN OTHER LOCATIONS.

15. FOR CLARIFICATION PURPOSES, TENANT, CLIENT, AND OWNER ARE THE SAME PARTY. LANDLORD IS THE PARTY LEASING THE SPACE TO THE TENANT AND THE GENERAL CONTRACTOR WILL BE REQUIRED TO HANDLE ALL WORK IN THESE DOCUMENTS UNLESS SPECIFICALLY NOTED OTHERWISE.

16. ALL DRAWINGS & SPECIFICATIONS HEREIN CREATE AN ENTIRE PACKAGE. ALL TRADES SHALL BE RESPONSIBLE FOR REVIEWING THEIR RESPECTIVE REQUIREMENTS AND COORDINATING THEIR HIDDEN OR EXPOSED WORK WITH OTHER RELATED TRADES.

17. UNLESS SPECIFICALLY NOTED, PROVIDE AND PAY FOR LABOR, MATERIALS AND EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT AND MACHINERY, AND OTHER FACILITIES AND SERVICES NECESSARY FOR PROPER EXECUTION AND COMPLETION OF WORK, INCLUDING PERMITS. TENANT SHALL PROVIDE UTILITIES.

18. USE OF DRAWINGS: THESE DRAWINGS MAY NOT SPECIFICALLY DETAIL OR SPECIFY MATERIALS AND/OR MANUFACTURERS. THE CONTRACTOR SHALL PROVIDE ALL SAMPLES AND/or CURES AS REQUESTED BY THE TENANT OR HIS AGENT IN MAKING MATERIAL SELECTIONS. FOR THE PURPOSE OF ESTIMATING, THE CONTRACTOR SHALL USE THE MATERIALS SELECTED BY THE TENANT OR, IN ABSENCE OF SAME, HE SHALL PROVIDE AN ALLOWANCE AMOUNT AND SO CONDITION ANY COST ESTIMATE. ALL MATERIALS SPECIFIED IN THESE DRAWINGS SHALL BE INCLUDED IN SUCH ESTIMATES. ASSOCIATES IN ARCHITECTURE AND DESIGN SHALL NOT BE HELD RESPONSIBLE FOR ANY DETAILING OR INSTALLATIONS NOT SHOWN ON THESE DRAWINGS.

19. OWNERSHIP OF DRAWINGS: THESE DRAWINGS ARE THE PROPERTY OF TENANT. THEY SHALL NOT BE REPRODUCED WITHOUT THE EXPRESSED WRITTEN PERMISSION OF THE TENANT. THESE DRAWINGS ARE TO BE USED FOR THIS SPECIFIC PROJECT, AND ARE NOT TO BE REUSED IN WHOLE OR IN PART FOR ANOTHER PROJECT WITHOUT WRITTEN AUTHORIZATION. ARCHITECT ASSUMES NO LIABILITY FOR UNAUTHORIZED USE OR REPRODUCTION OF THESE DOCUMENTS.

20. SHOP DRAWINGS AND/OR MATERIAL SAMPLES: CONTRACTOR SHALL SUBMIT FOUR (4) COPIES OF SHOP DRAWINGS FOR ARCHITECT'S REVIEW. THE ARCHITECT WILL REVIEW THESE DOCUMENTS FOR CONFORMANCE WITH DESIGN INTENT ONLY. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION METHODS, QUANTITY TAKE-OFFS, DIMENSIONS, ETC. THE ARCHITECT WILL STAMP THE DRAWINGS. NO CORRECTIONS NOTED MAKE CORRECTIONS NOTED OR REVISE AND RESUBMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING REQUESTED ITEMS IN SUFFICIENT TIME FOR ARCHITECT'S REVIEW.

21. TENANT'S DECISION: SHOULD ANY DISPUTE ARISE RESPECTING TRUE CONSTRUCTION AND MEANING OF DRAWINGS OR SPECIFICATIONS, IT SHALL BE DECIDED BY TENANT, WHOSE DECISION SHALL BE FINAL.

a. IN CASE OF WORK PERFORMED BY SUBCONTRACTORS AND WHERE GUARANTEES ARE REQUIRED, SECURE WARRANTIES FROM SAID CONTRACTORS ADDRESSED TO AND IN FAVOR OF TENANT, AND DELIVER COPIES OF SAME TO TENANT UPON COMPLETION OF WORK. CONTRACTOR AND ALL SUBCONTRACTORS AND MANUFACTURERS SHALL GUARANTEE WORKMANSHIP AND MATERIALS AND EQUIPMENT TO BE FREE OF DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF TENANT'S FINAL ACCEPTANCE.

b. SHOULD ANY TROUBLE DEVELOP DURING THIS WARRANTY PERIOD DUE TO DEFECTIVE MATERIALS AND/OR FAULTY WORKMANSHIP, THE CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS TO CORRECT THE TROUBLE AT NO ADDITIONAL COST TO TENANT.

24. UPON EXECUTION OF THE CONTRACT THE SUCCESSFUL BIDDER SHALL, WITHIN SEVEN (7) DAYS THEREAFTER, SUBMIT THE FOLLOWING:

a. A DEFINITIVE JOB CONSTRUCTION SCHEDULE SHOWING KEY DATES FOR COORDINATION WITH TENANT SUPPLIED SERVICES AND/OR MATERIALS.

b. CUTS AND/OR SAMPLES OF ANY OR ALL ITEMS, MATERIALS OR SAMPLES REQUIRING TENANT'S APPROVAL THAT ARE NOT REFLECTED IN THE DOCUMENTS.

c. COMPLETE LIST OF ALL SUBCONTRACTORS, MATERIAL SUPPLIERS AND VENDORS, TO BE UTILIZED, AND NOTICE OF SAID CONTRACT.

25. THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS ARE REQUIRED TO CHECK AND VERIFY ALL DIMENSIONS AND FIELDS CONDITIONS AT BUILDING SITE AND PREMISES AND NOTIFY THE ARCHITECT OF ANY AND ALL DISCREPANCIES BEFORE STARTING ANY WORK.

26. ALL WORK ON THIS PROJECT SHALL BE IN ACCORDANCE WITH ALL CODES, SUB-CODES, AND BUILDING DEPARTMENTS HAVING JURISDICTION. GENERAL CONTRACTOR TO CONTACT LOCAL BUILDING OFFICIALS FOR SPECIFIC REQUIREMENTS FOR THIS RETAIL USE.

27. THE GENERAL CONTRACTOR AND THE SUB-CONTRACTOR FOR THE GENERAL CONTRACTOR SHALL PAY FOR AND OBTAIN ALL PERMITS REQUIRED FOR THE WORK NOTED ON THESE PLANS AND SPECIFICATIONS. THIS INCLUDES COST FOR INSPECTIONS BY AUTHORITIES HAVING JURISDICTION, BUILDING DEPARTMENT PERMIT COST, AND PERMITS COST FOR FIXTURE SUPPLIES BY OWNER (IF APPLICABLE).

28. ALL WORK SHALL CONFORM WITH THE LANDLORD'S DESIGN CRITERIA SUPPLIED BY THE LANDLORD AND MADE PART OF THE TENANT'S LEASE. THE GENERAL CONTRACTOR IS TO OBTAIN A COPY OF THE DESIGN CRITERIA FROM THE TENANT AND THE REQUIREMENTS INCORPORATED IN THE CRITERIA FOR THE GENERAL CONTRACTOR AND SUB-CONTRACTORS WILL BE PART OF THE BIDS BY THE CONTRACTORS.

29. THE TENANT'S GENERAL CONTRACTOR SHALL LAY OUT WORK AS SPECIFIED IN THE DRAWINGS AND SHALL BE HELD RESPONSIBLE FOR PROPER ESTABLISHMENT AND MAINTENANCE OF ALL LINES AND DIMENSIONS. BEFORE DOING ANY WORK, TENANT'S GENERAL CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS AT THE SITE, SPECIALLY REGARDING TENANT'S CASE FIXTURE LAYOUT AND EXACT PLACEMENT AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES VERBALLY AND THEN IN WRITING.

30. ALL CONTRACTORS SHALL BE BONDABLE, LICENSED CONTRACTORS POSSESSING GOOD LABOR RELATIONS AND MUST BE CAPABLE OF QUALITY WORKMANSHIP, IN HARMONY WITH OTHER CONTRACTORS WORKING ON THE PROJECT. THE LANDLORD'S TENANT COORDINATOR FOR THE BUILDING IS TO BE NOTIFIED OF THE NAMES OF ALL SUB-CONTRACTORS PRIOR TO STARTING WORK - SUCH NOTIFICATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

31. PRIOR TO COMMENCEMENT OF ANY WORK, THE GENERAL CONTRACTOR SHALL CONTACT AND MEET THE LANDLORD'S FIELD REPRESENTATIVE FOR A PRE-CONSTRUCTION MEETING AT WHICH TIME, HE WILL PRESENT A LIST OF NAMES, ADDRESSES, BUSINESS AND HOME TELEPHONE NUMBERS OF THE SUB-CONTRACTORS OF THIS PROJECT.

32. THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL COMPLY WITH ALL THE PROVISIONS OF O.S.H.A. (OCCUPATIONAL SAFETY AND HEALTH ACT).

33. THE GENERAL CONTRACTOR SHALL HAVE AT ALL TIMES, AT THE PREMISES, "FINAL" LANDLORD APPROVED WORKING DRAWINGS AND BUILDING DEPARTMENT APPROVED PERMIT DRAWINGS.

34. THE GENERAL CONTRACTOR IS TO ARRANGE WITH THE LANDLORD FOR THE BUILDING, WHERE BUILDING EQUIPMENT AND MATERIALS ARE TO BE LOCATED AND HOW TRAFFIC IS TO BE ROUTED TO AND FROM THE BUILDING.

35. AN APPROVAL BY THE LANDLORD WILL ONLY BE VALID IF IN WRITING AND SIGNED BY THE LANDLORD OR BY THE LANDLORD'S DESIGNATED REPRESENTATIVE, FOR SUCH PURPOSE. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING APPROVAL FROM LANDLORD ON ALL STRUCTURAL CHANGES DURING THE COURSE OF THE CONSTRUCTION PHASE OF PROJECT AS WELL AS VERIFICATION OF CORRECT INSTALLATION AND SPECIFICATION FOR MISCELLANEOUS STEEL FOR H.V.A.C., STEEL FOR MEZZANINES, DECKS, ETC.

36. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY REMOVAL, OR AS REQUIRED BY LANDLORD, OF TRASH, RUBBISH AND SURPLUS MATERIALS RESULTING FROM CONSTRUCTION. THE GENERAL CONTRACTOR MUST MAINTAIN A CLEAR PATH OF EGRESS FROM THE PREMISES FREE FROM TRASH AND RUBBISH AT ALL TIMES.

37. THE GENERAL CONTRACTOR SHALL FURNISH AND PAY FOR ALL TEMPORARY UTILITY SERVICES; IF SUCH COST ARE SPECIFICALLY NOTED IN THE LEASE TO BE PAID BY THE LANDLORD, THE GENERAL CONTRACTOR IS NOT TO INCLUDE SUCH COST IN THE BID.

38. THE GENERAL CONTRACTOR SHALL IMMEDIATELY ORDER ALL LONG LEAD EQUIPMENT AND NOTIFY THE TENANT IMMEDIATELY OF ANY PROBLEMS REGARDING ABILITY OR DELIVERY AT THE BEGINNING OF THE PROJECT.

39. THE GENERAL CONTRACTOR IS TO VERIFY ALL EQUIPMENT SPECIFICATIONS AND REQUIREMENTS WITH THE TENANT OR THE ARCHITECT PRIOR TO START OF CONSTRUCTION. COORDINATION WITH THE ELECTRICAL SUBCONTRACTOR IS MANDATORY TO CAREFULLY CHECK ALL DRAWINGS AND VERIFY EQUIPMENT SELECTION AND CORRECT VOLTAGES, AMPERAGES, ETC.

40. ANY SUBSTITUTION OF FINISH MATERIALS MUST BE APPROVED BY THE ARCHITECT IN WRITING. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SUBMITTING TWO (2) SAMPLES EACH SUBSTITUTION.

41. THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS ARE TO FAMILIARIZE THEMSELVES WITH THE WORK TO BE PERFORMED BY THE LANDLORD AND BY THE TENANT AS PART OF THE EXECUTED LEASE AGREEMENT AND ANY AND ALL DESIGN CRITERIA. ANY DISCREPANCY BETWEEN THESE DRAWINGS AND THE LEASE OR DESIGN CRITERIA INFORMATION IS TO BE REPORTED TO THE ARCHITECT PRIOR TO THE START OF ANY WORK.

42. ANY SCAFFOLDING, SAFETY RAILINGS, BARRICADES, AND/OR PROTECTION DEVICE REQUIRED FOR THE PROJECT WILL BE FURNISHED AND PAID FOR BY THE GENERAL CONTRACTOR AS PART OF THE BASE BID.

43. PROTECTION OF WORK IN PLACE - WORK IN PLACE THAT IS SUBJECT TO INJURY BECAUSE OF OPERATIONS BEING CARRIED ON ADJACENT THERETO SHALL BE COVERED OR BOARDED UP, OR SUBSTANTIALLY ENCLOSED WITH ADEQUATE PROTECTION. ALL FORMS OF PROTECTIONS SHALL BE CONSTRUCTED IN A MANNER SUCH THAT, UPON COMPLETION, THE ENTIRE WORK WILL BE DELIVERED TO THE OWNER IN PROPER, WHOLE AND UNBLEMISHED CONDITION. ALL SUCH WORK SHALL BE COORDINATED WITH THE LANDLORD'S REPRESENTATIVE.

44. THE STRUCTURAL SYSTEM OF THE LANDLORD'S BUILDING HAS BEEN DESIGNATED TO CARRY A MAXIMUM LIVE LOAD AS SPECIFIED IN THE LANDLORD'S CRITERIA. LOADING IMPOSED BY ANY OF THE TENANT'S WORK ON A TEMPORARY OR PERMANENT BASIS SHALL NOT EXCEED SUCH SPECIFIED LOAD.

45. ANY ALTERATIONS, ADDITIONS, OR REINFORCEMENTS TO LANDLORD'S STRUCTURE TO ACCOMMODATE TENANT'S WORK SHALL NOT BE PERFORMED WITHOUT IN EACH INSTANCE TENANT OBTAINING LANDLORD'S PRIOR WRITTEN APPROVAL; AND THE GENERAL CONTRACTOR IN PERFORMING THIS WORK, SHALL LEAVE LANDLORD'S STRUCTURE AS STRONG AS, OR STRONGER THAN THE ORIGINAL DESIGN AND WITH FINISHES UNIMPAIRED.

46. THE TENANT SHALL APPLY FOR ALL UTILITY METERS.

47. FURNISH ALL REQUIRED TEMPORARY FACILITIES AND ALL TEMPORARY UTILITIES IMMEDIATELY AFTER RECEIPT OF NOTICE TO PROCEED FOR USE AND CONVENIENCE OF ALL THOSE ENGAGED IN THE PROJECT WORK.

48. ALL CONTRACTORS MUST STAY BEHIND THE BARRIERS AND MAINTAIN ACCESS TO SUCH AREAS CLEAN AND FREE OF CONSTRUCTION MATERIALS AND DEBRIS. FAILURE TO MAINTAIN CLEAN STOREFRONT WILL RESULT IN BUILDING MANAGEMENT HAVING SUCH MATERIALS AND DEBRIS REMOVED AND ALL CHARGES FOR MAINTENANCE WILL BE BILLED TO GENERAL CONTRACTOR.

49. COORDINATE ALL CONSTRUCTION AND SCHEDULING WITH THE BUILDING MANAGER REVIEWING ALL SCHEDULED ACTIVITIES AT OUTSET OF CONSTRUCTION.

50. ALLOWABLE TOLERANCES: UNLESS OTHERWISE NOTED OR INDICATED, THE FOLLOWING TOLERANCES SHALL APPLY TO ALL WORK:

a. ALL VERTICAL SURFACES SHALL BE PLUMB OR CONSTRUCTED TO THE EXACT SLOPES AND ANGLES INDICATED.

b. THE MAXIMUM DEVIATION FROM THE TRUE PLANE FOR VERTICAL AND HORIZONTAL SURFACES SHALL NOT BE GREATER THAN 1/8" IN 10'-0" AS MEASURED BY A STRAIGHT EDGE PLACED ANYWHERE ON THE SURFACE.

c. ALL HORIZONTAL SURFACES SHALL BE LEVEL OR CONSTRUCTED TO THE EXACT ANGLE INDICATED OR INTENDED.

d. WALL AND SOFFIT INTERSECTIONS SHALL BE 90 DEGREES OR THE EXACT ANGLE INDICATED OR INTENDED.

e. ALL CORNERS AND EDGES SHALL BE STRAIGHT, TRUE AND WITHOUT DENTS, WAVES OR BULGES OR OTHER BLEMISHES.

f. ALL JOINTS SHALL BE TIGHT, STRAIGHT, EVEN AND SMOOTH.

g. ALL OPERABLE ITEMS SHALL OPERATE SMOOTHLY WITHOUT STICKING OR BINDING AND WITHOUT EXCESSIVE "PLAY" OR LOOSENESS.

51. THE TENANT OR THE TENANT'S SUB-CONTRACTORS MAY OCCUPY PORTIONS OF THE PROJECT DURING THE FINAL STAGE OF CONSTRUCTION. COORDINATE AND COOPERATE WITH THE TENANT TO MINIMIZE CONFLICT AND FACILITATE THE TENANT'S OPERATION.

52. ALL DIMENSIONS AND FINISHES SHALL BE VERIFIED AND COORDINATED WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION, FABRICATION OR PURCHASING. IN CASE OF CONFLICT BETWEEN THE PROJECT REQUIREMENTS AND/OR EXISTING CONDITIONS, THE ONE WITH THE MOST STRINGENT REQUIREMENTS SHALL GOVERN, AS APPROVED BY THE TENANT.

53. PERFORM ALL WORK IN ACCORDANCE WITH ACCEPTABLE TRADE PRACTICE TO ENSURE THE HIGHEST QUALITY FINISHED PRODUCT - EXPRESSED OR IMPLIED. PERFORM ALL WORK BY SKILLED MECHANICS IN ACCORDANCE WITH ESTABLISHED STANDARDS OF WORKMANSHIP IN EACH OF THE VARIOUS TRADES.

54. THE CONTRACTOR SHALL USE ITS BEST EFFORTS TO PREVENT THE OCCURRENCE OF ANY STRIKE, SLOWDOWN, OR OTHER LABOR DIFFICULTIES OR DISPUTES ARISING FROM THE PRESENCE OF THE CONTRACTOR ON THE JOB OR THE ACTIVITIES OF THE CONTRACTOR.

55. THE CONTRACTOR SHALL REMOVE, OR CAUSE TO BE REMOVED, FROM THE JOB ALL EMPLOYEES WHO ARE CONSIDERED UNSATISFACTORY BY TENANT, AFTER NOTICE BY TENANT FOR THE REASON THEREOF.

56. ANY TRADE, WHICH MUST DO WORK IN AN AREA PREVIOUSLY PREPARED, BY ANOTHER TRADE SHALL APPROVE SUCH PRIOR WORK BEFORE COMMENCING. ANY UNSATISFACTORY CONDITIONS SHALL BE REPORTED TO TENANT AND NO WORK SHALL BE DONE IN THE AFFECTED AREA UNTIL THE UNSATISFACTORY CONDITIONS HAVE BEEN ELIMINATED. STARTING WORK SIGNIFIES ACCEPTANCE OF THE AREAS AS SATISFACTORY.

57. SHOULD ANY TRADE DAMAGE WORK OF ANOTHER TRADE, OR SHOULD ANY IMPROPER WORK BY ONE TRADE BE COVERED BY ANOTHER TRADE WHICH RESULTS IN DELAYS OR DEFECTS, ALL AFFECTED WORK, IN WHOLE OR IN PART, SHALL BE CORRECTED BY THE CONTRACTOR WITHOUT ANY EXPENSES TO THE TENANT.

58. THE CONTRACTOR SHALL COORDINATE THE RELATIONS OF THE VARIOUS TRADES TO THE PROGRESS OF THE WORK AND SHALL SEE THAT THE REQUIRED ANCHORAGE OR BLOCKING IS FURNISHED AND SET AT PROPER TIMES. ANCHORAGE AND BLOCKING NECESSARY FOR EACH TRADE SHALL BE A PART OF SAME, EXCEPT WHERE STATED OTHERWISE.

59. COORDINATE BLOCKING REQUIREMENTS WITH ADJACENT OR RELATED TRADES, ACCESSORIES, EQUIPMENT AND FIXTURES. INSTALL REQUIRED BLOCKING AT NO ADDITIONAL COST TO THE CONTRACT.

60. NO CHANGES IN WORK ORDERED BY AUTHORITIES HAVING JURISDICTION OVER PROJECT SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF TENANT, EXCEPT IN EMERGENCIES INVOLVING HAZARDS TO PERSONS OR PROPERTY.

61. REPAIR PROPERTY DAMAGED BY THE INSTALLERS TO A LIKE NEW CONDITION OR REPLACE DAMAGED SURFACES AND MATERIALS OF THE PREVIOUSLY INSTALLED WORK BY OTHER TRADES, INSTALLERS AND SUB-CONTRACTORS.

62. WHERE REQUESTED BY THE TENANT TO CERTIFY CONFORMANCE TO TRADE STANDARDS OR THE PROJECT REQUIREMENTS THE CONTRACTOR SHALL:

a. ENLIST A TESTING LABORATORY AT THE TENANT'S COST, IF THE REQUESTED TEST SHOWS NON CONFORMANCE TO FEDERALLY ACCEPTED TRADE STANDARDS OR THE PROJECT REQUIREMENTS, THE CONTRACTOR SHALL CORRECT THE DEFICIENCY AT NO ADDITIONAL COSTS TO THE TENANT AND REIMBURSE ALL THE COSTS OF THE TESTING TO THE TENANT, UNLESS THE CONTRACTOR HAS USED PRODUCTS INCORRECTLY LABELED BY THE MANUFACTURER OR HAS MADE PREVIOUSLY APPROVED CHANGES.

b. PROVIDE SECURITY OF THE WORK, INCLUDING TOOLED AND UNINSTALLED MATERIALS. PROTECT THE WORK, STORED PRODUCTS, CONSTRUCTION EQUIPMENT AND TENANT'S PROPERTY FROM THEFT AND VANDALISM AND THE PREMISES FROM ENTRY BY UNAUTHORIZED PERSONNEL UNTIL FINAL ACCEPTANCE BY TENANT.

c. MAINTAIN AN ACTIVE FIRE EXTINGUISHER AT THE PROJECT.

d. DO NOT USE MATERIAL OR EQUIPMENT FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY DESIGNED OR SPECIFIED. ALL MATERIALS AND EQUIPMENT THAT ARE SIMILAR SHALL BE THE SAME TYPE, MODEL, AND STYLE FOR THE SAME USE THROUGHOUT THE PROJECT OR THEY SHALL BE REJECTED.

e. PROVIDE SECURITY OF THE WORK, INCLUDING TOOLED AND UNINSTALLED MATERIALS. PROTECT THE WORK, STORED PRODUCTS, CONSTRUCTION EQUIPMENT AND TENANT'S PROPERTY FROM THEFT AND VANDALISM AND THE PREMISES FROM ENTRY BY UNAUTHORIZED PERSONNEL UNTIL FINAL ACCEPTANCE BY TENANT.

f. PROVIDE SECURITY OF THE WORK, INCLUDING TOOLED AND UNINSTALLED MATERIALS. PROTECT THE WORK, STORED PRODUCTS, CONSTRUCTION EQUIPMENT AND TENANT'S PROPERTY FROM THEFT AND VANDALISM AND THE PREMISES FROM ENTRY BY UNAUTHORIZED PERSONNEL UNTIL FINAL ACCEPTANCE BY TENANT.

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65. PROVIDE SECURITY OF THE WORK, INCLUDING TOOLED AND UNINSTALLED MATERIALS. PROTECT THE WORK, STORED PRODUCTS, CONSTRUCTION EQUIPMENT AND TENANT'S PROPERTY FROM THEFT AND VANDALISM AND THE PREMISES FROM ENTRY BY UNAUTHORIZED PERSONNEL UNTIL FINAL ACCEPTANCE BY TENANT.

66. WHEN THE PROJECT REQUIREMENTS REQUIRE THAT THE INSTALLATION OF WORK SHALL COMPLY WITH MANUFACTURER'S INSTRUCTIONS, PERFORM THE WORK IN STRICT ACCORDANCE WITH THE MOST CURRENT WRITTEN MANUFACTURER'S INSTRUCTIONS TO AVOID DISRUPTION OF THE WORK OR DAMAGE TO THE ITEMS. REPLACE DAMAGED OR UNFIT MATERIALS AT NO COST TO THE OWNER.

67. ALL PRODUCTS AND EQUIPMENT SHALL BE DELIVERED IN UNDAMAGED CONDITION AND STORED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS TO AVOID DISRUPTION OF THE WORK OR DAMAGE TO THE ITEMS. REPLACE DAMAGED OR UNFIT MATERIALS AT NO COST TO THE OWNER.

68. CONTRACTORS SHALL TAKE CARE TO PROTECT ADJACENT AREAS FROM DUST AND DAMAGE DURING THE CONSTRUCTION PROCESS AND SHALL CLEAN UP AFTER THEMSELVES AT THE END OF EACH WORKING DAY.

69. MISCELLANEOUS MATERIALS: PROVIDE ALL INCIDENTAL ACCESSORY MATERIALS, TOOLS, METHODS AND EQUIPMENT REQUIRED FOR FABRICATION AND INSTALLATION OF MISCELLANEOUS METAL ITEMS AS INDICATED ON DRAWINGS.

70. NOTIFY THE OWNER WHEN THE WORK IS SUBSTANTIALLY COMPLETE AND READY FOR INSPECTION. UPON INSPECTION, PROVIDE WRITTEN OPERATION AND MAINTENANCE INSTRUCTIONS AND GUARANTEES FOR ALL EQUIPMENT AND MATERIALS INSTALLED. PROVIDE WRITTEN GUARANTEES FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.

71. ALL ATTIC STOCK MATERIALS SHALL BE LEFT AT JOB SITE. THEY SHALL BE TAKEN FROM THE SAME MATERIAL, LOT OR RUN USED TO CONSTRUCT AND FINISH THE PROJECT.

72. UPON COMPLETION OF WORK, THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS ARE TO OBTAIN A CERTIFICATE OF COMPLETION AND APPROVAL FROM THE BUILDING DEPARTMENT OR OTHER AUTHORITIES HAVING JURISDICTION, AND SUBMIT SAME TO THE TENANT'S ARCHITECT. FINAL PAYMENT WILL NOT BE ISSUED PRIOR TO RECEIPT OF SUCH CERTIFICATE(S).

73. THE GENERAL CONTRACTOR SHALL UNLOAD, PROTECT AND INSTALL (INSTALL ONLY IF NOTED TO DO SO), TENANT'S EQUIPMENT, FIXTURES AND FURNISHINGS.

74. THE TENANT'S DESIGN CONCEPT LEAVES ZERO OR MINIMAL CLEARANCE FOR ERROR IN REGARD TO FIXTURE LAYOUT. "HOLD DIMENSION" INDICATIONS ARE TO BE ADHERED TO AND THE CONTRACTOR IS TOTALLY RESPONSIBLE FOR ERROR OR OMISSION. ANY QUESTIONS RELATING TO DIMENSIONING ARE TO BE ADDRESSED TO THE ARCHITECT ONLY.

75. THE GENERAL CONTRACTOR WILL HAVE A MAXIMUM OF 30 DAYS TO COMPLETE ALL PUNCH LIST ITEMS TO THE OWNER'S SATISFACTION. AFTER THIS 30-DAY PERIOD THE OWNER WILL TAKE STEPS TO COMPLETE AND ALL OUTSTANDING PUNCH LIST ITEMS - BACK CHARGING ALL COSTS INVOLVED.

76. ALL FERROUS METAL ITEMS SHALL BE SHOP-FINISHED. TOUCH UP OR REPAIR DAMAGED AREAS PRIOR TO INSTALLATION WITH SAME MATERIAL.

77. PROVIDE CONTACT SURFACES WITH CONCRETE MASONRY OR OTHER DISSIMILAR MATERIALS WITH A MINIMUM 10 MIL DRY THICKNESS OF AN APPROVED ZINC CHROMATE PRIMER.

78. PROVIDE ALL STEEL BLOCKING AND BRACING IN METAL STUD FRAMED PARTITIONS NECESSARY FOR A COMPLETE INSTALLATION. INCLUDE AS REQUIRED FOR SUPPORT OF ALL WALL-MOUNTED EQUIPMENT AND FABRICATIONS AS INDICATED ON DRAWINGS. PROVIDE SUPPORTS AT JAMBS OF DOORS AND ELSEWHERE, AS REQUIRED.

79. BOLTS SHALL BE LOW CARBON STEEL EXTERNALLY AND INTERNALLY THREADED FASTENERS CONFORMING WITH REQUIREMENTS OF ASTM-A307. INCLUDE NECESSARY NUTS AND PLAIN HARDENED WASHERS FOR MEMBERS. FOR SUPPORT OF STRUCTURAL MEMBERS OR CONNECTION THERETO, USE FASTENERS CONFORMING WITH ASTM-A225. FOR STAINLESS STEEL AND NON-FERROUS ITEMS, USE TYPE 302 AND 304 STAINLESS STEEL FASTENERS.

80. CONTRACTORS SHALL TAKE CARE TO PROTECT ADJACENT AREAS FROM DUST AND DAMAGE DURING THE CONSTRUCTION PROCESS AND SHALL CLEAN UP AFTER THEMSELVES AT THE END OF EACH WORKING

DIVISION 7 - THERMAL & MOISTURE PROTECTION

JOINT SEALERS

1. PROVIDE NON-SAG SEALANT COMPLYING WITH REQUIREMENTS OF FEDERAL SPECIFICATION TIS-1543 OR FS TIS-230 TYPE II, CLASS A. PROVIDE ACOUSTICAL SEALANT WHICH SHALL BE NON-HARDENING, NON-DRYING SYNTHETIC RUBBER SEALING COMPOUND WITH MINIMUM 905 SOLIDS. USE AT ALL INTERIOR JOINTS AT INNER SECTIONS, BETWEEN PLANES, AROUND DOOR AND WINDOW FRAMES PRIMER SHALL BE MADE OR RECOMMENDED BY SEALANT MANUFACTURER FOR THE SPECIFIC CONDITIONS AND SUBSTRATES.
2. PROVIDE BACKING MATERIAL BY DOW "ETHACOAM" OR APPROVED EQUAL. APPLY SEALANT OVER BACKING TO UNIFORM THICKNESS IN CONTINUOUS BEADS FILLING ALL JOINTS AND VOIDS SOLID. SUPERFICIAL POINTING WITH THE SKIM BEAD WILL NOT BE ACCEPTED.
3. ALL SURFACES SHALL BE ADEQUATELY CLEANED AND PREPARED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS PRIOR TO INSTALLATION.

DIVISION 8 - DOORS & WINDOWS

DOORS AND FRAMES

1. PROVIDE "TIMELY" KNOCKDOWN DOOR FRAMES AT ALL DOORS, FREE FROM SCALE AND PITTING AND OTHER SURFACE DEFECTS. FACTORY PRIMED FINISH.
2. STORE AND PROTECT DOOR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND WDMA OR AWS STANDARDS.
3. PROVIDE CUSTOM GRADE HEAVY-DUTY WOOD DOORS PER WDMA OR AWS STANDARDS WITH MINIMUM GRADE B FACES IN ANY SPECIES AND MATCH.
4. FACTORY PRE-MACHINE DOORS FOR HARDWARE THAT IS NOT SURFACE APPLIED. LOCATIONS AND HOLE PATTERNS TO COMPLY WITH SPECIFIED HARDWARE REQUIREMENTS AS PER NFPA 80 STANDARDS FOR DOORS SPECIFIED, AND TO MAINTAIN DOOR MANUFACTURER'S WARRANTY.
5. INSTALLATION OF WOOD DOORS TO COMPLY WITH WDMA OR AWS, SPECIFIC DOOR MANUFACTURERS INSTRUCTIONS, AND NFPA 80.
6. HARDWARE REINFORCEMENT AND ANCHORS (ERCTION, FLOOR AND JAMB) SHALL BE AS REQUIRED FOR A SECURE INSTALLATION AND SHALL BE IN ACCORDANCE WITH TRADE REQUIREMENTS FOR THE SPECIFIED HARDWARE AND INTENDED USE.
7. AFTER FABRICATION, DRESS, FILL AND SAND EXPOSED SURFACES, BODY PUTTY HOLES AND IMPERFECTIONS. APPLY UNIFORM COAT OF MANUFACTURER'S STANDARD PRIME COAT TO ALL EXPOSED SURFACES. LEAVE READY TO RECEIVE FINISH PAINTING.
8. INSTALL FRAMES IN ACCURATE LOCATIONS AS INDICATED ON DRAWINGS. INSTALL RIGID, PLUMB, LEVEL AND TRUE, ALIGN WITH ADJACENT CONSTRUCTION. SECURE FLOOR ANCHORS TO FLOOR CONSTRUCTION WITH APPROVED TYPE MECHANICAL FASTENINGS; ANCHOR TO ADJACENT WALLS WITH SPECIFIED ANCHORS. BRACE DURING CONSTRUCTION OF ADJACENT WALLS. ADJUST FRAME LOCATIONS AS NEEDED USING SHIMS BEFORE FASTENING. LEAVE READY TO RECEIVE SEALANT WHERE NOTED ON DRAWINGS.
9. PREPARE DOOR FOR FINISH HARDWARE. OBTAIN TEMPLATES FROM HARDWARE MANUFACTURERS AND CONFIRM TYPE, LOCATION AND SPECIFIC REQUIREMENTS OF HARDWARE FOR EACH DOOR PRIOR TO CUTTING.
10. HANG DOORS AS SCHEDULED ON DRAWINGS IN ACCURATE LOCATIONS WITH 1/8" CLEARANCE AT TOPS AND 3/8" CLEARANCE AT BOTTOM, UNLESS SPECIFICALLY NOTED FOR "UNDERCUTS" OR OTHER DEVIATIONS IN FIT. VERIFY CLEARANCES REQUIRED FOR CARPETING AND MAKE NO JOB SITE CUTS UNLESS APPROVED. HANG Pairs OF DOORS AS SPECIFIED WITH 3/32" CLEARANCE AT MEETING EDGES. DEMONSTRATE THAT DOORS OPEN FREELY WITHOUT BINDING, AND WHEN CLOSED, WILL LATCH PROPERLY.
11. ACCESS DOORS: PROVIDE ACCESS DOORS BY MILOR OR EQUAL. USE STYLE "D/W" AT WALLS AND CEILINGS (OR AS REQUIRED FOR RATING). SIZE SHALL BE GALVANIZED STEEL DRYWALL BEAD FOR FRAME CONCEALMENT. PANEL SHALL BE 14 GA. STEEL WITH SPRING TYPE CONCEALED HINGES OPENING TO 175 DEGREES. LOCKS SHALL BE FLUSH SCREWDRIVER OPERATED WITH METAL CAM. PRIME COAT SHALL BE FACTORY APPLIED. COORDINATE INSTALLATION WITH REQUIREMENTS OF OVERHEAD COILING DOOR MANUFACTURER.
12. PROVIDE HOLLOW METAL DOOR CONSTRUCTED WITH THE FOLLOWING MATERIALS:
 - a. MINIMUM 18 GA. FOR FACE SHEETS OF INTERIOR DOORS.
 - b. 16 GA. FOR EDGE CHANNELS.
 - c. MINIMUM 22 GA. FOR FACE STIFFENERS.
 - d. MINIMUM 16 GA. FOR INTERIOR FRAMES.
13. PROVIDE DOORS OF SIZES AND TYPES INDICATED ON DRAWINGS FULLY WELDED SEAMLESS CONSTRUCTION WITH NO VISIBLE SEAMS OR JOINTS ON FACES OR VERTICAL EDGES, THICKNESS AS SCHEDULED ON DRAWINGS.
14. FACE STIFFENERS, EDGES AND HARDWARE REINFORCEMENT SHALL BE THE HIGHEST QUALITY WORKMANSHIP AND MATERIALS. PROVIDE IN ACCORDANCE WITH THE BEST TRADE PRACTICE AND MANUFACTURERS WRITTEN RECOMMENDATIONS FOR THE USE INTENDED.
15. PROVIDE CUSTOM MADE WELDED UNITS WITH INTEGRAL TRIM SIZES AND SHAPES AS INDICATED ON DRAWINGS; FABRICATE UNITS SQUARE, TRUE AND FREE FROM DEFECTS.

HARDWARE

1. ALL FINISH HARDWARE FOR COMPLETE WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS. QUANTITIES LISTED IN ANY INSTANCE ARE FOR THE CONTRACTORS CONVENIENCE ONLY AND ARE NOT GUARANTEED. ITEMS NOT SPECIFICALLY MENTIONED BUT NECESSARY TO COMPLETE THE WORK SHALL BE FURNISHED, MATCHING IN QUALITY AND FINISH, THE ITEMS SPECIFIED.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER OPERATION AND FITTING OF HARDWARE IN LOCATIONS SPECIFIED. THE CONTRACTOR MUST SUPPLY A ROOM UNDER LOCK AND KEY TO STORE ALL FINISH HARDWARE UNTIL INSTALLATION IS MADE. THE HARDWARE SUPPLIER MUST MARK EACH ITEM OF HARDWARE AS TO DESCRIPTION AND LOCATION OF INSTALLATION IN ACCORDANCE WITH APPROVED HARDWARE SCHEDULE. EXPOSED SURFACES OF HARDWARE SHALL BE COVERED AND WELL PROTECTED DURING INSTALLATION, SO AS TO AVOID DAMAGE TO FINISHES.

3. PROVIDE HARDWARE FOR FIRE-RATED OPENINGS IN COMPLIANCE WITH REQUIREMENTS OF NFPA 80. THIS REQUIREMENT TAKES PRECEDENCE OVER OTHER REQUIREMENTS FOR SUCH HARDWARE.

4. HARDWARE SUPPLIER SHALL PROVIDE APPROVED SCHEDULE AND PAPER TEMPLATES TO VARIOUS OTHER SUPPLIERS FOR DOOR AND FRAME PREPARATION FOR HARDWARE.

5. EACH ITEM OF HARDWARE SHALL BE PACKAGED SEPARATELY WITH ALL NECESSARY SCREWS, BOLTS, TAMPONS, KEYS AND INSTALLATION TEMPLATES. DELIVER PACKAGES CLEARLY IDENTIFIED, WITH HEADING NUMBER AS APPROVED ON HARDWARE SCHEDULE.

6. INSTALL EACH HARDWARE ITEM IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS AND LOCATE IN ACCORDANCE WITH THE RECOMMENDED LOCATIONS. SET ITEMS LEVEL, PLUMB, AND TRUE TO LINE AND LOCATION. ADJUST AND REINFORCE THE ATTACHMENT SUBSTRATE, AS INDICATED OR IN ACCORDANCE WITH INDUSTRY STANDARDS.

7. MAKE FINAL ADJUSTMENT AND CHECK OF HARDWARE DURING THE WEEK IMMEDIATELY PRIOR TO ACCEPTANCE. CLEAN AND RELUBRICATE OPERATING ITEMS AS NECESSARY. TO RESTORE PROPER FUNCTIONING AND FINISH OF HARDWARE AND DOORS, MAKE FINAL ADJUSTMENT OF LOCKSETS AND THE CLOSERS TO COMPENSATE FOR OPERATION OF HEATING AND VENTILATING SYSTEMS UNDER THE SUPERVISION OF MANUFACTURERS REPRESENTATIVE.

8. LUBRICATE ALL MOVING PARTS WITH GRAPHITE TYPE LUBRICANT, UNLESS OTHERWISE RECOMMENDED BY MANUFACTURER. REPLACE ALL HARDWARE WHICH CANNOT BE LUBRICATED AND ADJUSTED TO OPERATE FREELY AND SMOOTHLY.

ALUMINUM STOREFRONT SYSTEMS

1. SYSTEMS ARE TO BE FABRICATED AND INSTALLED IN ACCORDANCE WITH AAMA SFM-1, PERFORMANCE CATEGORY CW.

2. PROVIDE CONCEALED FASTENING WHEREVER POSSIBLE.

3. MANUFACTURER IS RESPONSIBLE FOR ENGINEERING OF SYSTEM AND ALL COMPONENTS.

4. PROVIDE FASTENING METHODS THAT ACCOUNT FOR THERMAL MOVEMENT AND LIVE LOAD DEFLECTION OF BUILDING STRUCTURE.

5. SUBMIT MANUFACTURER'S PRODUCT LITERATURE AND SPECIFICATIONS, AND SHOP DRAWINGS INDICATING JOB-SPECIFIC ELEVATIONS AND SECTION DETAILS.

6. SYSTEM TO BE INSTALLED ONLY BY MANUFACTURER-APPROVED INSTALLERS.

7. ALUMINUM FRAMING MEMBERS ARE TO BE ASTM B221, ALLOY 6063-T5, 0.125" MINIMUM WALL THICKNESS EXTRUSIONS.

8. GENERAL GLASS SHALL BE IN ACCORDANCE WITH FEDERAL SPECIFICATION DD-G-451 AND FGMA GLAZING MANUAL.

9. STOREFRONT GLASS SHALL BE AS REQUIRED FOR THE SIZES AND CONDITIONS DETAILED. FRAME SECTIONS SHALL BE CONCEALED WHERE INDICATED.

10. PROVIDE RESILIENT NEOPRENE BLOCKS (70 TO 90 SHORE A DUROMETER) HARDNESS AND RESILIENT ACCESSORIES DESIGNED FOR POSITIONING GLASS IN RABBETS.

11. PROVIDE CLIPS OF NON-CORROSIVE METAL DESIGNED FOR CONTACT BLOCKS, NOT GLASS.

12. PROVIDE STANDARD PRE-FORMED GLAZING TAPE, STAINLOCKE 400, TRIMCO 440, OR APPROVED EQUAL.

13. PROVIDE NON-SHRINKING ELASTOMERIC TAPE WHERE REQUIRED.

14. USE SILICONE SEALANT DOW #795 OR GESELPURF, OR APPROVED EQUAL.

15. ALL EDGES, DRILLED HOLES AND NOTCHES SHALL BE FACTORY CUT AND/OR FACTORY FORMED. TOUCH-UP "RAW" EDGES TO MATCH FRAME.

10. INSTALL IN ACCORDANCE WITH FGMA RECOMMENDATIONS UNLESS NOTED OTHERWISE.

11. VERIFY THAT FRAMES TO RECEIVE GLAZING ARE SQUARE AND TRUE. THAT PERIMETER CLEARANCES ARE SUFFICIENT TO PREVENT "POINT LOADING" AND THAT SURFACES ARE CLEAN, DRY AND READY TO RECEIVE GLAZING MATERIALS. REMOVE ALL PROTECTIVE COATINGS FROM FRAMING SURFACES.

12. CENTER GLASS IN RABBETS AND POSITION SO AS TO MAINTAIN CLEARANCES ON ALL SIDES, INDOORS AND OUT, IN ACCORDANCE WITH FGMA RECOMMENDATIONS. SHIM AS REQUIRED TO POSITION AGAINST FIXED STOPS AND FRAME BARS.

13. SET ALL EXTRUSIONS IN CORRECT LOCATIONS AS SHOWN IN THE DETAILS. THEY SHALL BE LEVEL, FLUSH, SQUARE, PLUMB AND IN ALIGNMENT WITH OTHER WORK.

14. UPON COMPLETION, REMOVE ALL EXCESS SEALANT AND MATERIALS FROM SURFACES; WASH AND CLEAN ALL GLASS FRAMING MEMBERS.

DIVISION 9 - FINISHES

METAL SUPPORT SYSTEM (WALL STUDS):

1. PROVIDE CHANNEL-SHAPED ROLL FORMED SHEET STEEL MEMBERS CONFORMING WITH ASTM-C640, HOT DIPPED FINISH WHERE EXPOSED TO MOISTURE; NOT LESS THAN 20 GAUGE. PROVIDE 16 GAUGE AT DOOR JAMBS.

2. PROVIDE COLD ROLLED STEEL CHANNELS NOT LESS THAN 16 GAUGE WHERE INDICATED.

3. PROVIDE ROLL HAT-SHAPED CHANNELS MINIMUM 25 GAUGE, 7/8" DEEP WITH 1/2" HEMMED EDGES, HOT DIPPED FINISH WHERE NOTED.

4. PROVIDE TIE WIRES OF GALVANIZED WIRES NOT LESS THAN 16 GAUGE.

5. PROVIDE GALVANIZED HANGERS OF STEEL WIRE IN ACCORDANCE WITH ASTM-C754

6. PROVIDE JACK STUDS BETWEEN BOTTOM TRACK AND WINDOW AND/OR RELIEF SILLS BETWEEN LINTELS AND HEADERS IN TOP TRACKS.

7. PROVIDE BLOCKING AND FRAMING FOR ALL WALL MOUNTED FINISH HARDWARE AND EQUIPMENT, INCLUDING DOOR STOPS.

8. PROVIDE CEILING SEISMIC BRACING IN ACCORDANCE WITH REQUIREMENTS OF APPLICABLE CODES AND AS INDICATED ON DRAWINGS.

9. PROVIDE DOUBLE BEAD OF BUTYL SEALANT AT FLOOR TRACKS. APPLY DOUBLE BEAD TO CEILING TRACK AND TO STUDS ABUTTING OTHER CONSTRUCTION.

10. PROVIDE CHANNEL-SHAPED BLOCKING SUPPORT OR GALVANIZED STRIP SUPPORT OF WALL-HUNG CABINETS, EQUIPMENT, FIXTURES AND ACCESSORIES OF NOT LESS THAN 22 GA. MATERIAL. PROVIDE SUPPORT IN WALL OR PARTITION FRAMING SYSTEM WHEREVER WALL-HUNG CABINETS AND EQUIPMENT ARE INDICATED ON DRAWINGS, AND WHERE REQUIRED FOR MOUNTING OF MISCELLANEOUS ITEMS REQUIRING BRACING.

11. SET FLOOR TRACKS IN ACCURATE LOCATIONS AND SECURELY ANCHOR IN ACCORDANCE WITH ASTM STANDARDS. ERECT STUDS AND SECURE TO TRACK. INSTALL HEAD TRACK IN ACCORDANCE WITH DETAILS. INSTALL BLOCKING, BRACING AND ANCHOR STRIPS. LEAVE READY TO RECEIVE FINISH MATERIALS.

12. ERECT ALL COMPONENTS FOR CEILING AND SOFFIT FRAMING IN ACCURATE LOCATIONS AS INDICATED, TRUE TO LINE, LEVEL AND PLUMB, AND IN ACCORDANCE WITH APPLICABLE ASTM STANDARDS, AS REFERENCED ABOVE. USING A LASER LEVEL, ADJUST SUPPORTS, SPANS OR OTHERWISE FOR INSTALLATION WITHIN SPECIFIED TOLERANCES.

13. PROVIDE KICK BRACING IN ACCORDANCE WITH INDUSTRY STANDARDS FOR WALL STUDS, CEILING MEMBERS, DRAFT OR SMOKE STOPS AND CURTAIN WALLS.

PAINT:

1. PROVIDE PAINT FINISHES FOR BUILDING AND OTHER SURFACES AS SCHEDULED ON DRAWINGS OR AS SPECIFIED HEREAFTER, INCLUDING SEALING OR CONCRETE FLOOR AT CORRIDOR AND STOCK ROOM. NO PAINT FINISH IS REQUIRED ON ITEMS HAVING COMPLETE FACTORY FINISH, EXCEPT AS MAY BE SPECIFIED HEREAFTER. NO PAINT FINISH IS REQUIRED ON PUTTY AND/OR SEALANT AT ALUMINUM WINDOWS, NON-FERROUS METAL UNLESS SPECIFICALLY MENTIONED IN THE PAINTING SCHEDULE. STAINLESS STEEL, INTERIOR OR EXTERIOR OF EXISTING BUILDING EXCEPT WHERE ALTERATIONS OCCUR OR WHERE SCHEDULED. GRILLES AND DIFFUSERS. NO PAINTING IS REQUIRED FOR INSULATED PIPING, EXCEPT WHERE EXPOSED IN FINISHED NON-MECHANICAL ROOM SPACES.

2. PROTECT WORK OF OTHER TRADES FROM DAMAGE AND DEFACEMENT CAUSED BY THIS WORK. REPAIR ANY DAMAGE CAUSED BY THE WORK OF THIS SECTION. REMOVE ELECTRICAL OUTLET AND SWITCH PLATES, MECHANICAL DIFFUSERS, GRILLES, ESCUTCHEONS, REGISTERS, SURFACE HARDWARE, FITTINGS AND FASTENINGS PRIOR TO COMMENCING THE WORK. STORE, CLEAN AND REPLACE UPON COMPLETION.

3. PAINT CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR IF ANY SURFACE TO BE PAINTED OR STAINED IS FOUND TO BE UNSUITABLE TO PRODUCE PROPER FINISH. APPLY NO FINISH MATERIAL UNTIL THE UNSUITABLE SURFACES HAVE BEEN MADE SATISFACTORY.

4. FINISH WORK SHALL BE UNIFORM, OF APPROVED COLOR, SMOOTH AND FREE FROM RUNS. MAKE ENDS OF PAINT ADJOINING OTHER MATERIALS OR COLORS SHARP AND CLEAN. WHERE HIGH GLOSS ENAMEL IS USED, LIGHTLY SAND UNDERCOAT TO OBTAIN A SMOOTH FINISH COAT.

5. PROVIDE ALL NEWLY PAINTED SURFACES WITH ONE (1) COAT TINTED PRIMER AND TWO (2) COATS FINAL COLOR COAT, UNLESS OTHERWISE RECOMMENDED BY MANUFACTURER'S SPECIFICATIONS.

6. DELIVER ALL PAINT TO JOB SITE IN UNOPENED CONTAINERS BEARING THE MANUFACTURERS LABEL AND SHOWING PAINT TYPE, SHEEN AND COLOR.

7. PAINT TYPES USED SHALL BE THOSE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE MATERIAL TO WHICH THEY WILL BE APPLIED. PAINTING CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS FOR PROPER APPLICATION OF THE PAINTS.

8. ALL SURFACES TO BE PAINTED SHALL BE THOROUGHLY CLEANED AND PREPARED FOR PAINTING PRIOR TO APPLICATION OF PAINT. PROVIDE VENTILATORS AS REQUIRED TO PREVENT BUILD-UP OF FUMES.

9. SANDPAPER ALL NEW WOOD TO SMOOTH AND EVEN DUST OFF. AFTER PRIMING COAT HAS BEEN APPLIED THOROUGHLY FILL ALL NAIL HOLES AND OTHER SURFACE IMPERFECTIONS WITH PUTTY TINTED WITH PRIMER OR STAIN TO MATCH WOOD COLOR. SAND ALL WOODWORK BETWEEN COATS TO A SMOOTH SURFACE.

10. PRIME ALL SURFACES WHICH RECEIVE PAINT PRIOR TO APPLICATION OF FINAL FINISH, IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

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11. BACK PRIME ALL EXTERIOR AND INTERIOR WOOD AND TRIM PRIOR TO INSTALLATION. THOROUGHLY CLEAN SURFACES AND APPLY NO FINISH UNLESS SURFACES ARE DRY AND READY FOR APPLICATION. SANDPAPER SURFACES OF TRIM SMOOTH AND WIPE CLEAN. AFTER STAIN COAT HAS BEEN APPLIED, FILL CRACKS AND HOLES WITH PLASTIC WOOD OR PUTTY. IF STAIN HAS BEEN USED, TINT CRACK FILLER TO MATCH BACKS OF TRIM. PRIME BARE WOODS SCHEDULED TO RECEIVE PAINT FINISH, FINISH NAIL HOLES, CRACKS AND OTHER IMPERFECTIONS WITH PUTTY AND SAND SMOOTH.

12. AT COMPLETION, TOUCH-UP AND RESTORE FINISH WHERE DAMAGED AND LEAVE ALL SURFACES IN GOOD AND CLEAN CONDITION.

13. OTHER PAINT MANUFACTURERS MAY NOT BE SUBSTITUTED.

14. FINISH INTERIOR SURFACES AS SCHEDULED ON DRAWINGS, EXCEPT AS MODIFIED AND SUPPLEMENTS HEREINAFTER AND UPON WRITTEN APPROVAL.

GYPSUM WALL BOARD:

1. PROVIDE GYPSUM WALL PANELS MANUFACTURED IN ACCORDANCE WITH REQUIREMENTS OF ASTM-336.

2. PROVIDE TYPE "X" FIRE RETARDANT GYPSUM WALL BOARD PANELS 5/8" THICK, TESTED AND QUALIFIED FOR 1 HOUR RATING, TAPERED AND ROUNDED AT EDGES THROUGHOUT SPACE, AS INDICATED ON DRAWINGS.

3. PROVIDE METAL EDGE AND CORNER BEADS AT ENDS, EDGES AND CORNERS.

4. WATER RESISTANT GYPSUM WALL BOARD SHALL BE 5/8" THICK, QUALIFIED FOR 1-HOUR RATING, TAPERED AND ROUNDED EDGES AND BE INSTALLED IN ALL WET AREAS AND AS INDICATED ON DRAWINGS.

5. FOR CONTROL JOINTS, PROVIDE U.S. GYPSUM #093 OR APPROVED EQUAL. INSTALL IN LOCATIONS AS RECOMMENDED BY INDUSTRY STANDARDS AND IN COMPLIANCE WITH U.S. GYPSUM STANDARDS.

6. PROVIDE FASTENERS IN ACCORDANCE WITH ASTM-C646, UNLESS OTHERWISE NOTED OR INDICATED. PROVIDE TYPE "S" BUGLE HEAD SCREWS FOR ATTACHMENT OF WALL BOARD TO METAL FRAMING, AND TYPE "S" PAN HEAD SCREWS FOR ATTACHMENT OF FRAMING TO DOOR FRAMES.

7. PROVIDE ALL INCIDENTAL AND ACCESSORY MATERIALS, TOOLS, EQUIPMENT, AND METHODS REQUIRED FOR SATISFACTORY COMPLETION OF GYPSUM WALLBOARD CONSTRUCTION INCLUDING ACCESS DOORS AND PANELS.

8. APPLY CONTINUOUS BEAD OF SEALANT AT ALL JOINTS OF WALLBOARD ABUTTING AD

SECTION 15400 - FIRE PROTECTION

1.1 SCOPE
A. PROVIDE LABOR, MATERIALS, EQUIPMENT, SERVICES AND TRANSPORTATION FOR COMPLETE AND OPERATIONAL FIRE PROTECTION SYSTEM, SPECIFIED HEREIN, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

1. MODIFY EXISTING WET PIPE SPRINKLER SYSTEM, BASED ON "LIGHT HAZARD"
2. PROVIDE NEW SPRINKLER HEAD THROUGHOUT RENOVATED AREAS.

B. FIRE PROTECTION SYSTEMS SHALL PROVIDE COMPLETE COVERAGE AS REQUIRED BY NFPA STANDARDS AND OWNER'S INSURANCE AGENCY.

C. NOTE: CONTRACT DRAWINGS DO NOT SHOW COMPLETE SYSTEM LAYOUT. PROVIDE ADDITIONAL BRANCHES, FITTINGS, COMPONENTS, ETC. AS NECESSARY TO MEET INTENT OF CONTRACT DOCUMENTS AND ALL APPLICABLE NFPA STANDARDS.

D. PROVIDE COMPLETE LAYOUT DRAWING PER NFPA.

1.2 SHOP DRAWING SUBMITTALS
A. SUBMIT FOR REVIEW SHOP DRAWINGS OF FOLLOWING:

1. HYDRAULIC CALCULATIONS
2. SPRINKLER HEADS
3. SPRINKLER LAYOUT
4. ACCESSORIES
5. SPRINKLER PIPING AND HEAD ARRANGEMENTS

 B. SUBMIT SYSTEM LAYOUT DRAWINGS FOR REVIEW, SHOWING LOCATION AND FUNCTION OF EACH PIECE OF EQUIPMENT, EACH SPRINKLER HEAD AND EACH ALARM. PRIOR TO SUBMITTAL OF DRAWINGS, OBTAIN APPROVAL OF SYSTEM LAYOUT DRAWINGS FROM OWNER'S INSURANCE AGENCY AND LOCAL FIRE MARSHAL. LAYOUT DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SEALED BY A PROFESSIONAL ENGINEER CURRENTLY LICENSED IN THE STATE OF WASHINGTON.

1. FINISHED CEILINGS ARE INTENDED TO PRESENT UNIFORM COORDINATED APPEARANCE WITH REGARD TO LOCATION AND SPACING OF LIGHT FIXTURES, AIR SYSTEM DIFFUSERS AND GRILLES, AND SPRINKLER HEADS.

2. CAREFULLY REVIEW REFLECTED CEILING PLANS BEFORE PREPARING SPRINKLER SYSTEM LAYOUT DRAWINGS.

3. WHERE NECESSARY TO ACCOMPLISH DESIRED APPEARANCE, ADDITIONAL SPRINKLER HEADS (BEYOND MINIMUM NUMBER) MAY BE REQUIRED.

4. ALL OF THE INFORMATION OUTLINED IN NFPA CHAPTER 6-1, 6-2 AND 6-3 SHALL BE PROVIDED ON THE SHOP DRAWINGS.

C. FURNISH WRITTEN CERTIFICATE OF INSPECTION TO ARCHITECT ADVISING THAT MATERIALS AND INSTALLATION ARE IN FULL ACCORDANCE WITH MANUFACTURER'S PROCEDURES AND RECOMMENDATIONS, AND OPERATE PROPERLY AND SAFELY.

PART 2 - PRODUCTS

2.1 GENERAL PRODUCT REQUIREMENTS
A. FIRE PROTECTION SYSTEM COMPONENTS SHALL BE UL LISTED OR FM APPROVED (AS APPLIES) FOR FIRE PROTECTION SERVICE.

B. UNLESS OTHERWISE SPECIFIED, SPRINKLER SYSTEM EQUIPMENT SHALL BE BY CENTRAL, GRINNELL, RELIABLE, VIKING OR EQUAL TO.

2.2 SPRINKLER HEADS
A. FOR EXPOSED PIPE INSTALLATIONS IN NON-FINISHED AREAS, HEADS SHALL BE BRASS, WITH 165°F FUSIBLE LINKS: CENTRAL GB UPRIGHT AND PENDANT SPRINKLERS.

B. FOR INSTALLATION IN FINISHED CEILINGS, PENDANT TYPE: MATCH EXISTING

C. IN AREAS WHERE HEADS ARE SUBJECT TO COLD-SOLDERING OR PHYSICAL DAMAGE, PROVIDE COMBINATION WATERSHED AND SPRINKLER GUARD ASSEMBLY OVER HEAD. GUARDS SHALL BE INSTALLED ON HEADS WHERE LOCATED IN ELEVATOR SHAFTS, UNDER LOWER RAKES OF STAIRWAYS AND WHEN HEADS ARE 7'0" OR LESS ABOVE FINISHED FLOOR, ELECTRICAL AND MECHANICAL ROOMS AND COMMERCIAL KITCHENS.

D. WIRE GUARDS

1. UPRIGHT - RELIABLE AC3
GRINNELL #F774 CHROME

2. PENDANT - RELIABLE AC4
GRINNELL #F774 CHROME

E. PROVIDE CHROME-PLATED ESCUTCHEON FOR EACH SPRINKLER HEAD LOCATED IN FINISHED AREA.

F. FURNISH SIX SPARES OF EACH STYLE AND TYPE OF HEAD; FURNISH SPRINKLER WRENCH AND STORAGE CABINET.

G. TEMPERATURE RATINGS OF SPRINKLERS IN AREAS SUCH AS MECHANICAL, ELECTRICAL, MACHINE ROOMS, ETC. SHALL BE INTERMEDIATE RANGE (212°F). TEMPERATURE RATINGS OF HEADS IN HIGH TEMPERATURE AREAS SUCH AS NEAR BREECHINGS SHALL BE HIGH TEMPERATURE RATING (286°F) OR HIGHER TO SUIT CONDITIONS. PROVIDE WIREGUARDS WHEN HEADS ARE INSTALLED AT 7'0" AFF OR LESS AND IN AREAS SUBJECT TO DAMAGE.

2.3 STEEL PIPING

A. EVERY LENGTH OF PIPE SHALL BE MARKED WITH MANUFACTURER'S NAME OR TRADEMARK AND ANSI OR ASTM TYPE AND GRADE. PIPE SHALL HAVE BEVELED ENDS FOR WELDING AND GROOVED ENDS FOR GROOVED JOINT FITTINGS.

B. FOR FIRE PROTECTION (WATER) SYSTEMS:

1. PIPE SHALL BE STANDARD WEIGHT, SCHEDULE 40 UP TO AND INCLUDING 2" THREADED BLACK STEEL MEETING ASTM 795 AND ASTM 135, USE SCHEDULE 10 2 1/2", 6", USE SCHEDULE 30 8" AND LARGER FOR HIGHER PSI SCHEDULE 10 OR 30 STEEL PIPE WITH ROLLED GROOVED ENDS FOR GROOVED JOINT FITTINGS MAY BE USED IN LIEU OF SCHEDULE 40, WHERE SPECIFICALLY APPROVED BY UL, NFPA #13 AND #14, AND CODE FOR FIRE PROTECTION SERVICE.
2. FITTINGS SHALL BE SCREWED TYPE, OR ROLL GROOVED JOINT BY VICTAULIC OR EQUAL; APPROVED FOR FIRE PROTECTION SYSTEMS; MEETING NFPA 13 ARTICLE 3-13.1; AS FOLLOWS:
 - A. SCREWED, 5" AND SMALLER: 125 LB. CAST IRON, MALLEABLE FOR HIGHER PSI, STANDARD WEIGHT, MEETING ANSI B16.3.
 - B. ROLL GROOVED JOINT, 2" AND LARGER: USE WITH ROLL GROOVED JOINT COUPLINGS BY VICTAULIC OR EQUAL.
3. JOINTS:
 - A. SCREWED JOINTS SHALL BE MADE UP WITH ACCEPTABLE PIPE JOINT COMPOUND.
 - B. GROOVED JOINT FLEXIBLE COUPLINGS SHALL BE VICTAULIC STYLE 75 WITH GRADE E GASKETS, OR OTHER ROLL GROOVED JOINT UNITS SPECIFICALLY APPROVED BY UL AND NFPA #13 FOR FIRE PROTECTION DUTY, MAY BE USED WHERE APPROVED BY CODE AND CONTROLLING AUTHORITIES FOR FIRE PROTECTION SYSTEMS.
4. PIPE NIPPLES:
 - A. PIPE NIPPLES SHALL BE SAME QUALITY, MATERIAL AND CLASS AS PIPE SYSTEM. CLOSE NIPPLES ARE NOT PERMITTED IN PRESSURE SYSTEMS AND FIRE PROTECTION SYSTEMS.
5. ESCUTCHEONS
 - A. ESCUTCHEONS SHALL BE CHROME PLATED.
 - B. ESCUTCHEONS IN CEILINGS SHALL HAVE SET SCREWS OR OTHER POSITIVE MEANS OF HOLDING UNITS FIRMLY IN PLACE.
6. VALVES:
 - A. FIRE PROTECTION SYSTEMS - GATE VALVES:
 - (1) GATE VALVES 2" AND SMALLER: JENKINS #275U OR CRANE #459.
 - (2) GATE VALVES 3" AND LARGER: CLOW FIGURE F-6136.
 - B. FIRE PROTECTION SYSTEMS - BALL VALVES 2" AND SMALLER: 150# WSP AND 400# WOG, BRONZE TWO-PIECE OR THREE-PIECE BODY, WITH TFE TEFLON SEATS AND SEALS AND WITH TYPE 316 STAINLESS STEEL BALL AND TRIM: JAMESBURY "CLINCHER STYLE 21-11".

2.4 INSPECTOR'S TEST CONNECTIONS
A. PROVIDE BRONZE, 1" NPT, FEMALE THREADED, INSPECTOR'S TEST CONNECTIONS FOR SPRINKLER SYSTEM RELIABLE "MODEL A" OR VICTAULIC "TESTMASTER".

PART 3 - EXECUTION

3.1 TESTING

A. EACH SYSTEM SHALL BE FUNCTIONALLY TESTED AS REQUIRED BY FIRE DEPARTMENT AND OWNER'S INSURANCE COMPANY. TESTS SHALL INCLUDE:

1. TESTING OF VALVES, EQUIPMENT AND ACCESSORIES FOR PROPER OPERATION.
2. SETTING AND ADJUSTING OF PRESSURE SWITCHES AND CONTROLS.
3. SUBMIT WRITTEN CERTIFICATION OF ACCEPTANCE OF ALL TESTS IN ACCORDANCE WITH NFPA-13.

3.2 FIRE PROTECTION DURING CONSTRUCTION

A. PROVIDE TEMPORARY FIRE PROTECTION DURING CONSTRUCTION, INCLUDING TEMPORARY FITTINGS, ETC., UNTIL SUCH TIME AS PERMANENT SYSTEM CAN BE ACTIVATED.

3.3 INSTALLATION OF FIRE PROTECTION SYSTEMS

A. USE HYDRAULIC DESIGN PROGRAMS TO DETERMINE PIPE SIZING AND ARRANGEMENT FOR MAIN FEEDER AND CROSS-MAIN DISTRIBUTION SYSTEMS.

B. IN HUNG CEILING AREAS, LOCATE SPRINKLER HEADS TO FALL IN CENTER OF CEILING PANELS AND TO FORM COORDINATED UNIFORM PATTERN WITH LIGHT FIXTURES, AIR SUPPLY OR RETURN DIFFUSERS, REGISTERS, ETC. PROVIDE NECESSARY OFFSETS IN BRANCH PIPES TO ACCOMPLISH DESIRED RESULTS. COORDINATE WORK CLOSELY WITH CEILING INSTALLER.

C. HORIZONTAL OR DOWNFEED BRANCH CONNECTIONS TO SPRINKLER HEADS SHALL BE MADE ABOVE CENTERLINE OF HORIZONTAL MAINS.

D. SPRINKLER HEADS SHALL NOT BE INSTALLED UNTIL BRANCH LINES TO HEADS HAVE BEEN CLOSED.

E. SPRINKLER PIPING 3" AND LARGER MAY HAVE WELDED, THREADED OR GROOVED FITTINGS. WELDING MUST BE DONE IN SHOP ONLY AND MAY ONLY BE DONE IF APPROVED BY LOCAL AUTHORITY.

F. LAYOUT SHOWN ON CONTRACT DRAWINGS IS INTENDED TO SHOW GENERAL LAYOUT, AREAS TO BE COVERED AND BASIC REQUIREMENTS. PREPARE DETAILED WORKING DRAWINGS OF PIPING FOR REVIEW AND APPROVAL BY PROPER AUTHORITIES BEFORE ANY WORK IS PERFORMED.

DRAWING LIST - FIRE PROTECTION

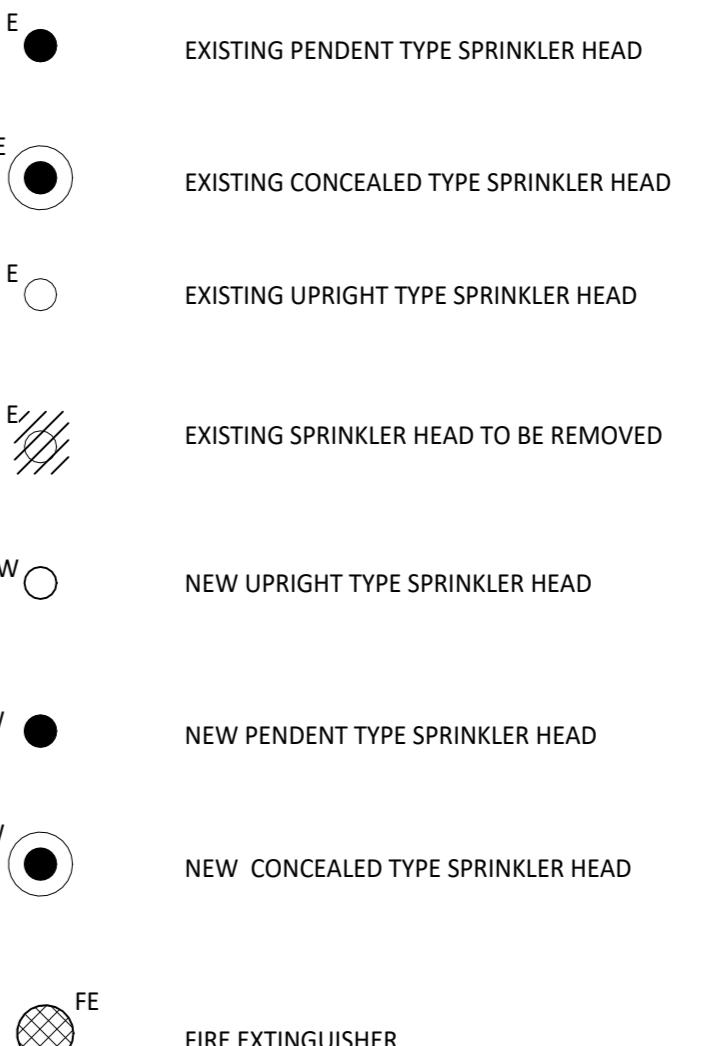
F01-01 DRAWING LIST, LEGENDS, DETAILS & SPECIFICATION
F40-01 FIRE PROTECTION PLAN
F84-01 FIRE PROTECTION DEMOLITION PLAN

DATE	ISSUED FOR	REV
09/26/2025	ISSUED FOR CLIENT REVIEW	
10/15/2025	ISSUED FOR PERMIT	
11/13/2025	ISSUED FOR BID	
12/04/2025	ADDENDUM 1	B

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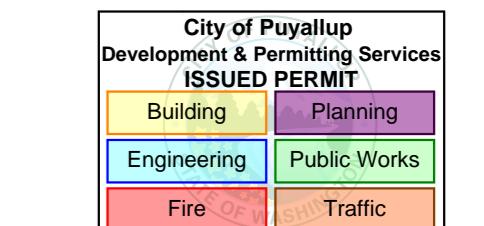
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FIRE PROTECTION SYMBOLS



Project Component

Key Plan



Consultants

Survey: N/A
Civil: N/A
Architecture: NORR
Structural: N/A
Mechanical: NORR
Electrical: NORR
Interiors: N/A
Landscape: N/A

Seal(s)

Date Signed:
Dec. 8, 2025

NORR

The Cannery
1631 Alhambra Blvd., Suite 100
Sacramento, CA, US 95816
norr.com

Project Manager

MS Drawn ES

Project Leader

JM Checked SM

Client

PANDORA

CLIENT ADDRESS

Project
SOUTH HILL MALL

3500 S MERIDIAN, PUYALLUP, WA 98373

Drawing Title
1 DRAWING LIST, LEGENDS,
DETAILS & SPECIFICATION

Scale

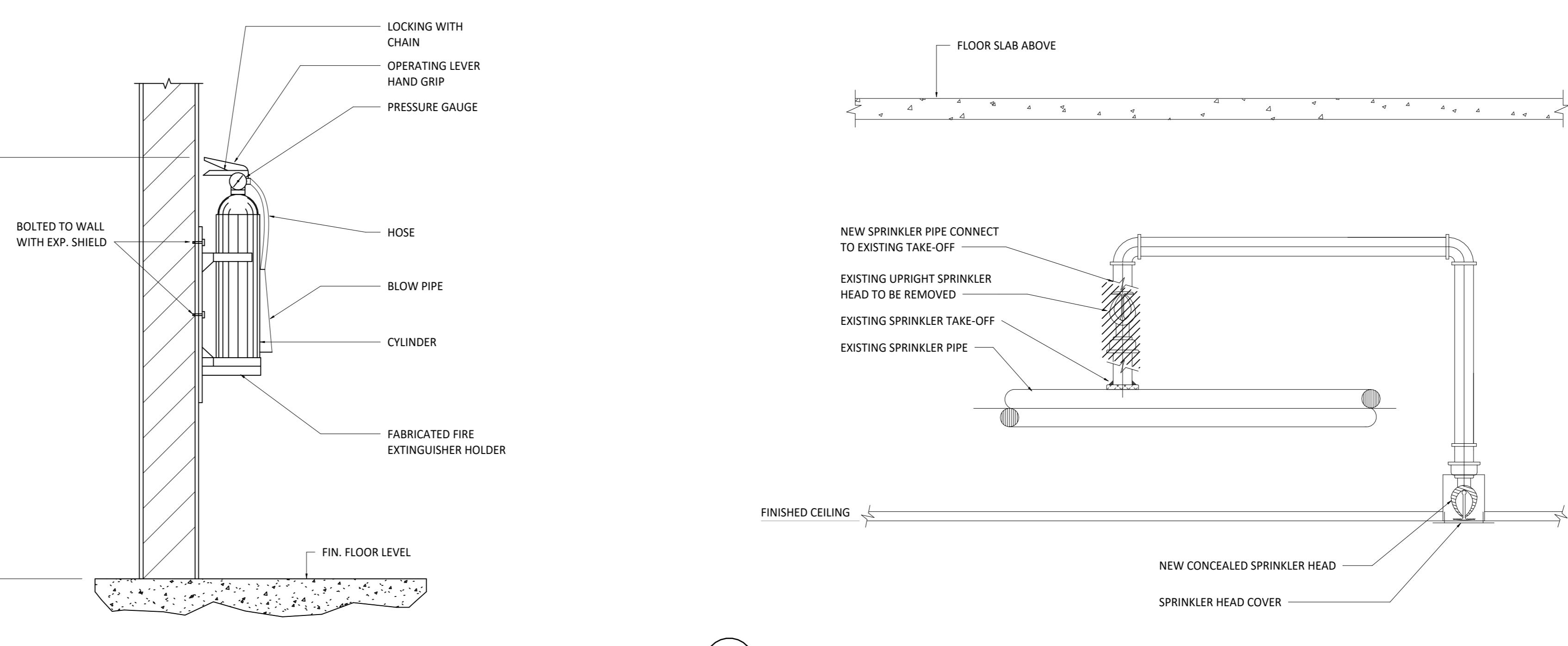
1/4" = 1'-0"

Project No.

RT2025-0388

Drawing No.

F01-01



FIRE PROTECTION PLAN KEYNOTES	
KEY NOTE VALUE	KEY NOTE TEXT
1	REMOVE EXISTING CONCEALED TYPE SPRINKLER HEAD. (TYPICAL)
2	EXISTING WALL MOUNTED FIRE EXTINGUISHER TO REMAIN.
3	EXISTING PENDANT TYPE SPRINKLER HEAD TO REMAIN. (TYPICAL OF 2)

- DO NOT SCALE DRAWING. **GENERAL NOTES**, ITEMS SHOWN ON THE DRAWS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON THE SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
- FIRE PROTECTION SYSTEM SHALL BE INSTALLED & TESTED IN ACCORDANCE WITH NFPA 13 STANARDS AND APPLICABLE CALIFORNIA CODES AND STANDARDS IN CHICAGO.
- THIS SPRINKLER DRAWINGS ARE PREPARED TO GIVE THE CONTRACTOR THE DESIGN INTENT, THE SCOPE OF WORK & TO ASSIST IN PRICING THE SPRINKLER WORK ONLY. PROVIDE EXACT NUMBER OF HEADS TO SUIT THE DENSITY REQUIREMENTS AS SPECIFIED. ALLOW EXTRA 10 SPRINKLER HEADS IN BID. SPRINKLER HEAD LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLAN & SHALL MEET THE MINIMUM REQUIREMENTS OF THE APPLICABLE NFPA 13 STANDARD.
- CONTRACTOR SHALL PREPARE & SUBMIT ENGINEER STAMPED HYDRAULIC CALCULATION, INCLUDING THE PIPE SIZES AS PER APPLICABLE NFPA 13. CALCULATIONS & SPRINKLER INSTALLATION SHOP DRAWINGS SHALL ALSO BE SUBMITTED TO AUTHORITY HAVING JURISDICTION FOR REVIEW & FINAL APPROVAL.
- INSTALL SYSTEM VALVES & GAUGES SO THAT THEY ARE ACCESSIBLE FOR OPERATION, INSPECTION, TESTING & MAINTENANCE.
- FIRE PROTECTION SERVICES SHALL BE PROPERLY COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION. ANY INSTALLATION PRIOR TO THE RESOLUTION OF CONFLICTS THROUGH THE INTERFERENCE PROCESS SHALL BE RECTIFIED AT THE EXPENSE OF THE SPRINKLER CONTRACTOR.
- CONTRACTOR SHALL ENSURE THAT THE SPRINKLER HEADS ARE AS CENTERED BOTH WAYS IN THE CEILING TILES AS POSSIBLE. CONTRACTOR SHALL INSTALL WHEREVER POSSIBLE SPRINKLER PIPING & HEADS WITHIN CEILINGS, BULKHEADS, ETC. WHERE SPRINKLER HEADS & PIPING IS REQUIRED TO BE EXPOSED. REVIEW THE PROPOSED LOCATIONS WITH THE ARCHITECT PRIOR TO INSTALLATION. CONTRACTOR SHALL ALLOW FOR PAINTING EXPOSED PIPING, COLORS TO MATCH ROOM FINISHES.

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09/26/2025	ISSUED FOR CLIENT REVIEW	
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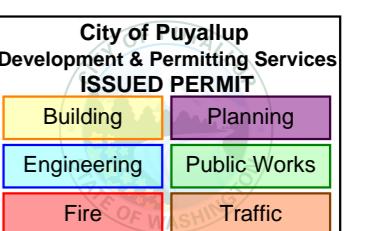
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Project Component

Key Plan



Consultants

Survey: N/A

Civil: N/A

Architecture: NORR

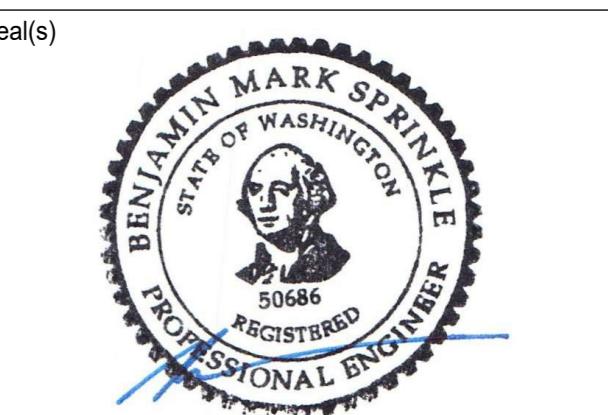
Structural: N/A

Mechanical: NORR

Electrical: NORR

Interiors: N/A

Landscape: N/A

Date Signed:
Dec. 8, 2025**NORR**

The Cannery
1631 Alhambra Blvd., Suite 100
Sacramento, CA, US 95816
norr.com

Project Manager

MS

Drawn

ES

Project Leader

JM

Checked

SM

Client

PANDORA

CLIENT ADDRESS

Project

SOUTH HILL MALL

3500 S MERIDIAN, PUYALLUP, WA 98373

Drawing Title
**FIRE PROTECTION
DEMOLITION PLAN**

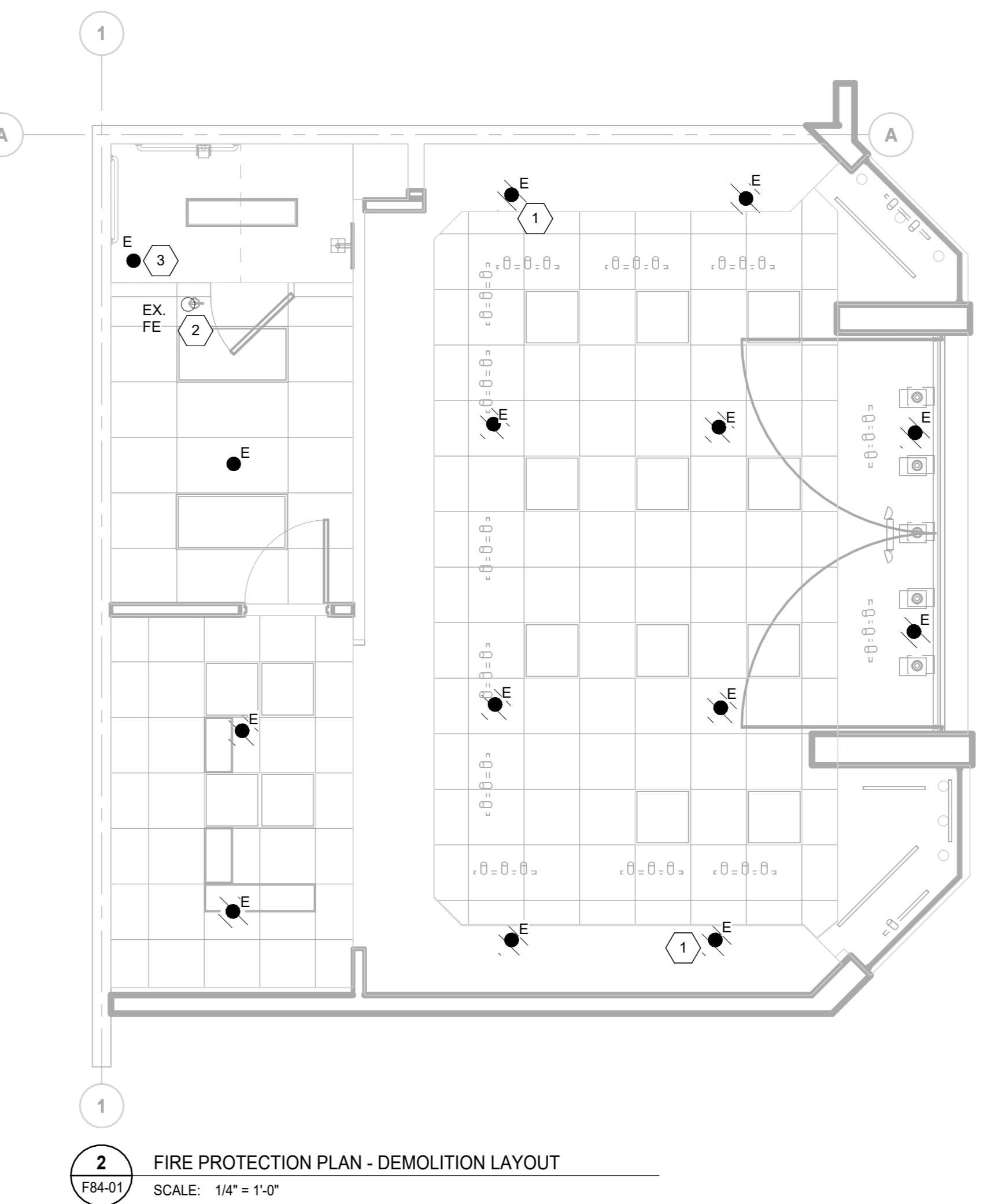
Scale

1/4" = 1'-0"

Project No.

RT2025-0388

Drawing No.

F84-01

HVAC SPECIFICATIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

ALL APPLICABLE REQUIREMENTS OF OTHER PORTIONS OF THE CONTRACT DOCUMENTS APPLY TO THE WORK OF THIS SECTION INCLUDING, BUT NOT LIMITED TO, ALL DRAWINGS, ALL SPECIFICATIONS, GENERAL CONDITIONS, AND GENERAL REQUIREMENTS INCLUDING SUBMITTALS.

1.2 WORK INCLUDED

THESE DRAWING SPECIFICATIONS AND THE EQUIPMENT SCHEDULES ON THE DRAWINGS ARE INTENDED TO PROVIDE THAT ALL MATERIAL AND LABOR BE FURNISHED TO INSTALL A COMPLETE HEATING, VENTILATION AND AIR CONDITIONING SYSTEM FOR THE PROJECT. THE CONSTRUCTION DOCUMENTS ARE PROVIDED TO ILLUSTRATE THE DESIGN AND GENERAL TYPE OF CONSTRUCTION DESIRED, AND IMPLY THE FINEST QUALITY OF CONSTRUCTION, MATERIAL, AND WORKMANSHIP.

1.3 APPLICABLE CODES AND STANDARDS

APPLICABLE CODES: ALL LOCAL AND STATE BUILDING CODES. APPLICABILITY OF STANDARDS: EXCEPT WHERE THE CONTRACT DOCUMENTS INCLUDE MORE STRINGENT REQUIREMENTS, APPLICABLE CONSTRUCTION INDUSTRY STANDARDS HAVE THE SAME FORCE AND EFFECT AS IF BOUND ON COPIED DIRECTLY INTO THE CONTRACT DOCUMENTS. SUCH STANDARDS ARE MADE A PART OF THE CONTRACT DOCUMENTS BY REFERENCE. CONFLICTING REQUIREMENTS: WHERE COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED, AND THE STANDARDS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, REFER REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, AND UNCERTAINTIES TO THE A/E FOR A DECISION BEFORE PROCEEDING. PUBLICATION DATES: WHERE THE DATE OF ISSUE OF A REFERENCED STANDARD IS NOT SPECIFIED, COMPLY WITH THE STANDARD IN EFFECT AS OF DATE OF CONTRACT DOCUMENTS. ABBREVIATIONS AND NAMES: TRADE ASSOCIATION NAMES AND TITLES OF GENERAL STANDARDS ARE FREQUENTLY ABBREVIATED. THE FOLLOWING ACRONYMS OR ABBREVIATIONS AS REFERENCED IN CONTRACT DOCUMENTS ARE DEFINED TO MEAN THE ASSOCIATED NAMES. NAMES AND ADDRESSES ARE SUBJECT TO CHANGE AND ARE BELIEVED TO BE BUT ARE NOT ASSURED TO BE ACCURATE AND UP TO DATE AS OF DATE OF CONTRACT DOCUMENTS.

ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE

ARI - AIR CONDITIONING AND REFRIGERATION INSTITUTE

ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS

ASME - AMERICAN SOCIETY OF MECHANICAL ENGINEERS

ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS

AWS - AMERICAN WELDING SOCIETY

AWWA - AMERICAN WATER WORKS ASSOCIATION

NEC - NATIONAL ELECTRIC CODE

NFPA - NATIONAL FIRE PROTECTION ASSOCIATION

UL - UNDERWRITERS LABORATORIES

EPA - ENVIRONMENTAL PROTECTION AGENCY

OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

1.4 SUBMITTALS

PRIOR TO THE PERFORMANCE OF ANY WORK OR INSTALLATION OF ANY MATERIALS, OBTAIN APPROVAL FROM THE A/E BY SUBMITTING SHOP DRAWINGS AND DATA SHEETS. SUBMITTAL OF SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES WILL BE ACCEPTED ONLY WHEN SUBMITTED BY THE CONTRACTOR. DATA SUBMITTED FROM SUBCONTRACTORS AND MATERIAL SUPPLIERS DIRECTLY TO THE ENGINEER OF RECORD WILL NOT BE PROCESSED. CERTIFIED DRAWINGS AND CATALOG DATA SHEETS SHALL SHOW:

1. APPLICABLE SPECIFICATION SECTION NUMBER AND EQUIPMENT TAG NUMBER.

2. PRINCIPAL DIMENSIONS AND DETAILS OF CONSTRUCTION.

3. WEIGHTS; INFORMATION REQUIRED FOR THE DESIGN OF SUPPORTS AND FOUNDATIONS.

4. SIZES AND LOCATIONS OF PIPING AND CONNECTIONS.

5. PERFORMANCE DATA CERTIFIED BY THE MANUFACTURER FOR THE EQUIPMENT FURNISHED.

6. SUBMIT SCHEDULE OF PROPOSED PIPING, VALVES, SPECIALTIES, DUCTWORK, ETC.

APPROVAL OF SHOP DRAWINGS DOES NOT RELEASE CONTRACTOR FROM RESPONSIBILITY OF COORDINATING HIS WORK AT JOB SITE AND TAKING FIELD MEASUREMENTS. IN CASES WHERE INTERFERENCES MAY BE APPARENT, THE CONTRACTOR SHALL NOTIFY A/E SO THAT SUCH INTERFERENCES MAY BE RESOLVED PRIOR TO PROCEEDING WITH SHOP WORK. NO CLAIM WILL BE ALLOWED FOR WORK THAT MIGHT HAVE TO BE MOVED OR REPLACED BASED ON A CLAIM THAT WORK WAS PLACED IN ACCORDANCE WITH DIMENSIONS SHOWN ON AN APPROVED SHOP DRAWING.

1.5 COORDINATION

COORDINATE WITH THE BUILDING TRADES:

A. STRUCTURAL MEMBERS, PADS, AND BUILDING OPENINGS FOR FIXTURES, EQUIPMENT, PIPING, ETC., FOR USE BY THE CONTRACTOR SHOWN ON THE ARCHITECTURAL AND STRUCTURAL PLANS ARE THE COORDINATION RESPONSIBILITY OF THIS CONTRACTOR. THIS CONTRACTOR WILL PAY FOR ANY CHANGES IN THE ABOVE REQUIREMENTS AFTER LETTING AND ACCEPTING THE CONTRACT.

B. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT, DIRECTIONS AND SIZES OF EQUIPMENT, PIPING, ETC. IT IS NOT INTENDED TO SHOW EVERY OFFSET AND FITTING OF EVERY SITE DIFFICULTY THAT MAY BE ENCOUNTERED, BUT THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND PERFORM ALL LABOR NECESSARY TO MAKE COMPLETE WORKING SYSTEMS, READY FOR USE, WITHOUT EXTRA CHARGE TO THE OWNER OR A/E. ALL MEASUREMENTS MUST BE VERIFIED ON THE JOBSITE.

C. EXAMINE THE SITE AND ALL DRAWINGS BEFORE PROCEEDING WITH THE LAYOUT AND INSTALLATION OF THIS TO SUIT ACTUAL CONDITIONS. CONFER AND COOPERATE WITH OTHER TRADES ON THE JOB SO THAT ALL WORK WILL BE INSTALLED IN PROPER RELATIONSHIP. PRECISE LOCATION OF PARTS TO COORDINATE WITH OTHER WORK IS THE RESPONSIBILITY OF THIS CONTRACTOR. ALL SYSTEMS SHALL BE INSTALLED TO PROVIDE MAXIMUM HEADROOM, EXCEPT WHERE DIMENSIONED OTHERWISE ON THE DRAWINGS.

1.6 RECORD DOCUMENTS

RECORD DRAWINGS: MAINTAIN A CLEAN, UNDAMAGED SET OF PRINTS OF CONTRACT DRAWINGS AND SHOP DRAWINGS. MARK THE SET TO SHOW THE ACTUAL INSTALLATION WHERE THE INSTALLATION VARIES SUBSTANTIALLY FROM THE WORK AS ORIGINALLY SHOWN. MARK WHICHEVER DRAWING IS MOST CAPABLE OF SHOWING CONDITIONS FULLY AND ACCURATELY; WHERE SHOP DRAWINGS ARE USED, RECORD A CROSS-REFERENCE AT THE CORRESPONDING LOCATION ON THE CONTRACT DRAWINGS. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD LATER. A. MARK NEW INFORMATION THAT IS IMPORTANT TO THE OWNER, BUT WAS NOT SHOWN ON CONTRACT DRAWINGS OR SHOP DRAWINGS. B. ORGANIZE RECORD DRAWING SHEETS INTO MANAGEABLE SETS, BIND WITH DURABLE PAPER COVER SHEETS, AND PRINT SUITABLE TITLES, DATES AND OTHER IDENTIFICATION ON THE COVER OF EACH SET. C. MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, CONCEALED UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE LOCATED (I.E., TRAPS, STRAINERS, EXPANSION COMPENSATORS, TANKS, ETC.). D. EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES. E. APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED. F. INCLUDE ALL "CORRECTED FOR RECORD" SHOP DRAWINGS TO REFLECT APPROVALS RECEIVED.

1.7 REGULATIONS AND PERMITS

THE CONTRACTOR SHALL GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES HAVING JURISDICTION.

1.8 CUTTING AND PATCHING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING AS REQUIRED FOR PROPER INSTALLATION OF THE MATERIAL AND EQUIPMENT. PROTECT THE STRUCTURE, FURNISHINGS, FINISHES, AND ADJACENT MATERIALS NOT INDICATED OR SCHEDULED TO BE REMOVED. PROVIDE AND MAINTAIN TEMPORARY PARTITIONS OR DUST BARRIERS ADEQUATE TO PREVENT THE SPREAD OF DUST AND DIRT TO ADJACENT AREAS. PROVIDE ACCESS PANELS AS NECESSARY FOR ACCESS TO CONCEALED EQUIPMENT.

1.9 CLEANING AND CLOSEOUT

ALL WORK SHALL BE INSPECTED, TESTED AND APPROVED BEFORE BEING CONCEALED OR PLACED IN OPERATION. UPON COMPLETION OF THE WORK, ALL EQUIPMENT INSTALLED AS SPECIFIED IN THIS SECTION, AND ALL AREAS WHERE WORK WAS PERFORMED, SHALL BE CLEANED TO PROVIDE OPERATING CONDITIONS SATISFACTORY TO THE A/E.

1.10 DAMAGE AND RESTORATION

DURING CONSTRUCTION AND UNTIL EXPIRATION OF THE GUARANTEE PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO THE PREMISES DUE TO POOR WORKMANSHIP, FAULTY MATERIAL OR EQUIPMENT.

PART 2 - PRODUCTS

2.1 INSULATION

A. SUPPLY AND OUTSIDE AIR DUCTWORK SHALL BE INSULATED WITH 1-1/2 INCH FLEXIBLE FIBERGLASS INSULATION CONFORMING LOCATED IN CEILING PLENUMS TO ASTM C 553, TYPE I, CLASS B4, 1.5 LB. PER CUBIC FOOT, 'K' VALUE OF A 0.3 AT 75 F, FSK JACKET, 25 FLAME / 50 SMOKE PLENUM RATED.

2.2 DIFFUSERS AND GRILLES

PROVIDE DIFFUSERS, REGISTERS AND GRILLES MATCHING BUILDING STANDARD FOR SUPPLY, RETURN AND EXHAUST APPLICATIONS. REFER TO SCHEDULE AND DRAWINGS FOR TYPE, NECK SIZE, AIR PATTERNS AND QUANTITIES.

MANUFACTURER SHALL SUBMIT AIR AND SOUND PERFORMANCE DATA FOR ALL TYPES OF DIFFUSERS. APPROVED MANUFACTURERS ARE: TITUS, KRUGER, TUTTLE & BAILEY AND PRICE.

2.3 DUCTWORK

THE TERM "DUCTWORK" SHALL MEAN: DUCTS, DAMPERS, FRAMES, RODS, HANGERS, AUXILIARY STEEL AND OTHER MATERIALS USED IN THE COMPLETE INSTALLATION.

DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. DUCTWORK CONSTRUCTION AND INSTALLATION SHALL CONFORM TO THE LATEST EDITIONS OF THE APPLICABLE HVAC DUCT CONSTRUCTION STANDARDS, PUBLISHED BY SMACNA, FOR LOW PRESSURE DUCT SYSTEMS.

GALVANIZED SHEET STEEL SHALL BE LOCK FORMING QUALITY, ASTM A 527, COATING DESIGNATION G 90. PROVIDE MILL PHOSPHATED FINISH FOR EXPOSED SURFACES OF DUCTS EXPOSED TO VIEW.

BATHROOM EXHAUST DUCTS, ALUMINUM SHEETS SHALL BE ASTM B 209, ALLOY 3003, TEMPER H14, SHEET FORM; WITH STANDARD, ONE-SIDE BRIGHT FINISH WHERE DUCTS ARE EXPOSED TO VIEW, AND MILL FINISH FOR CONCEALED DUCTS.

SEAL ALL TRANSVERSE JOINTS WITH WATER AND FIRE RESISTANT SEALER EQUAL TO 3M DUCT SEALER 800.

LONGITUDINAL JOINTS, WHICH LEAK, SHALL ALSO BE TAPE.

TAPE ALL TRANSVERSE JOINTS (AFTER SEALING) WITH 3M DUCT TAPE OR APPROVED EQUAL. LONGITUDINAL JOINTS, WHICH HAVE BEEN SEALED, SHALL ALSO BE TAPE.

DUCTWORK SHALL BE AIRTIGHT, BRACED AND STIFFENED. DUCTWORK SHALL NOT BREATHE, RATTLE, VIBRATE OR SAG.

TURNING VANES IN SQUARE ELBOWS SHALL BE ALFOIL TYPE, TURNING VANES IN ACOUSTICALLY LINED DUCTWORK SHALL BE ALFOIL TYPE OF PERFORATED METAL AND FILLED WITH FIBERGLASS.

ACCESS PANELS SHALL BE INSTALLED IN DUCTWORK AT ALL DAMPERS, FIRE DAMPERS, COILS, AUTOMATIC TEMPERATURE CONTROLS AND OTHER DEVICES REQUIRING PERIODIC ATTENTION AND CLEANING. DUCT ACCESS SHALL BE BY A LATCHED AND HINGED, 1 INCH THICK INSULATED DOUBLE PANEL BY C. E. SPARROW CO. OR APPROVED EQUAL.

MINIMUM DOOR SIZE SHALL BE 12"X12" OR LARGEST STOCK SIZE WHICH WILL FIT IN CASES WHERE DUCTS ARE TOO SMALL FOR 12"X12" ACCESS DOORS. LABEL ACCESS DOOR PER UMC 304.4

2.5 PIPING

ALL PIPE HANGERS AND SUPPORTS SHALL BE STANDARD PRODUCTS OF ITT GRINELL CORPORATION OR APPROVED EQUAL. PROVIDE A PROTECTION SHIELD BETWEEN HANGER AND PIPE INSULATION. PROVIDE PIPE SLEEVES AT WALL AND FLOOR PENETRATIONS AND SEAL AIRTIGHT.

COPPER TUBING: (2) INCH AND UNDER, ASTM B88, TYPE L, HARD DRAWN.

FITTINGS: ASME B16.18, CAST COPPER ALLOY SOLDER JOINT PRESSURE FITTINGS OR ASME B16.22 WROUGHT COPPER SOLDER JOINT PRESSURE FITTINGS FOR COPPER TUBING. MALLEABLE IRON HOUSING CLAMPS TO ENGAGE AND LOCK, DESIGNED TO PERMIT SOME ANGULAR DEFLECTION, CONTRACTION, AND EXPANSION; C-SHAPE ELASTOMER EPDM, GRADE E COMPOSITION SEALING GASKET FOR OPERATING TEMPERATURE RANGE FROM -30 DEG. F. TO 230 DEG. F.; STEEL BOLT NUTS AND WASHERS, GALVANIZED COUPLINGS FOR GALVANIZED PIPES.

JOINTS: SOLDER FOR COPPER TUBING.

2.6 AUTOMATIC TEMPERATURE CONTROL

AUTOMATIC TEMPERATURE CONTROLS SHALL BE AN EXTENSION OF THE EXISTING SYSTEM (ADVANCED POWER CONTROLS, INC.), ALL NEW SEQUENCES OF OPERATION SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM.

THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE ELECTRICAL REQUIREMENTS PRIOR TO EXECUTING HIS WORK.

THE AUTOMATIC CONTROL SYSTEM SHALL BE COMPLETE WITH ALL NECESSARY SOURCES OF ELECTRICITY, SENSORS, CONTROLLERS, RELAYS, SWITCHES, TRANSFORMERS, GAUGES AND INTERCONNECTING WIRING TO CONTROL THE SYSTEM FOR A COMPLETE OPERATING AND COMMUNICATING SYSTEM.

INCLUDE ALL NECESSARY MOTOR CONTROL AND INTERLOCK WIRING TO ACHIEVE A COMPLETE OPERATING SYSTEM. ELECTRIC CONTROL SHALL BE LOW VOLTAGE TYPE. PROVIDE ALL CONTROL VOLTAGE WIRING BETWEEN INDOOR AND OUTDOOR EQUIPMENT FOR A COMPLETE OPERATION OF THE SYSTEM.

CONTRACTOR SHALL RUN ALL INDOORS, OUTDOORS, EXPOSED OR CONCEALED CONTROL WIRING IN A RIGID OR FLEX CONDUIT.

AUTOMATIC CONTROL DAMPERS AND ACTUATORS: MODEL CD50 (ALUMINUM), PARALLEL BLADE AS MANUFACTURED BY RUSKIN MANUFACTURING OR APPROVED EQUAL.

TERMOSTAT: ELECTRIC OF THE HEAVY DUTY TYPE.

2.7 TESTING, ADJUSTING AND BALANCING

AN INDEPENDENT BALANCING CONTRACTOR WHICH HAS EXPERIENCE IN AND REGULARLY PRACTICES BALANCING AND WHICH HAS ALL EQUIPMENT REQUIRED FOR TESTS, ADJUSTMENTS AND RECORDING, SHALL PROVIDE BALANCING OF AIR HANDLING SYSTEM. THE BALANCING CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES PRIOR TO AND DURING THE CONSTRUCTION PERIOD. THE BALANCING CONTRACTOR SHALL RETURN AFTER THE SYSTEMS HAVE BEEN IN OPERATION TO READJUST AIR DEVICES AND ALL OTHER COMPONENTS AS REQUIRED.

TEST AND BALANCE CONTRACTOR SHALL BE CERTIFIED BY EITHER THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) OR THE ASSOCIATED AIR BALANCING COUNCIL (AABC) IN THOSE TESTING AND BALANCING DISCIPLINES REQUIRED FOR THIS PROJECT, AND HAVING AT LEAST ONE PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE SERVICES ARE TO BE PERFORMED, CERTIFIED BY NEBB AS A TEST AND BALANCE ENGINEER.

DURING THE FINAL BALANCING PERIOD, THE CONTRACTOR SHALL MAKE PERSONNEL AVAILABLE (SHEET METAL AND CONTROL TRADES) TO WORK WITH THE BALANCING CONTRACTOR.

THE BALANCING CONTRACTOR SHALL ACQUIRE A COMPLETE SET OF DRAWINGS (LATEST REVISIONS) BEFORE START OF FINAL BALANCING.

AIR SYSTEMS AND COMPONENTS SHALL BE BALANCED TO WITHIN 5% OF THE INDICATED AIR FLOWS. THE SHEET METAL CONTRACTOR SHALL REPAIR LEAKS IN DUCT SYSTEMS.

THE BALANCING CONTRACTOR SHALL RECOGNIZE THAT THE DRAWINGS ARE SCHEMATIC AND THAT ALL BALANCING DEVICES REQUIRED (DAMPERS, ETC.) MAY NOT BE SHOWN. COORDINATION BETWEEN THE MECHANICAL CONTRACTOR AND THE BALANCING CONTRACTOR SHALL INCLUDE PROVIDING LABOR AND MATERIAL TO SUPPLY AND INSTALL BALANCING DEVICES WHERE REQUIRED TO COMPLETE THE WORK SATISFACTORILY WHETHER OR NOT SUCH DEVICES ARE SHOWN ON THE DRAWINGS.

THE BALANCING CONTRACTOR SHALL PREPARE A LIST OF INFORMATION IN BOOKLET FORM (4 COPIES REQUIRED) INCLUDING PERTINENT ITEMS SUCH AS:

1. NAME, NUMBER, SYSTEM SERVICE AND/OR LOCATION, ETC.
2. DESIGN AND ACTUAL RPM
3. DESIGN AND ACTUAL CFM
4. DESIGN AND ACTUAL STATIC PRESSURES.

5. MOTOR HP, AMPS PER PHASE, VOLTS, PHASE, HZ AND RPM 6. BELTS AND SHEAVES, NAMES AND NUMBERS ACCESS PANELS SHALL BE INSTALLED IN DUCTWORK AT ALL DAMPERS, FIRE DAMPERS, COILS, AUTOMATIC TEMPERATURE CONTROLS AND OTHER DEVICES REQUIRING PERIODIC ATTENTION AND CLEANING. DUCT ACCESS SHALL BE BY A LATCHED AND HINGED, 1 INCH THICK INSULATED DOUBLE PANEL BY C. E. SPARROW CO. OR APPROVED EQUAL. MINIMUM DOOR SIZE SHALL BE 12"X12" OR LARGEST STOCK SIZE WHICH WILL FIT IN CASES WHERE DUCTS ARE TOO SMALL FOR 12"X12" ACCESS DOORS.

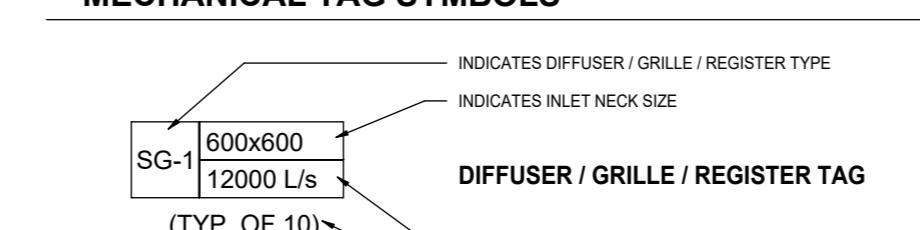
1.9 CLEANING AND CLOSEOUT

ALL WORK SHALL BE INSPECTED, TESTED AND APPROVED BEFORE BEING CONCEALED OR PLACED IN OPERATION. UPON COMPLETION OF THE WORK, ALL EQUIPMENT INSTALLED AS SPECIFIED IN THIS SECTION, AND ALL AREAS WHERE WORK WAS PERFORMED, SHALL BE CLEANED TO PROVIDE OPERATING CONDITIONS SATISFACTORY TO THE A/E.

1.10 DAMAGE AND RESTORATION

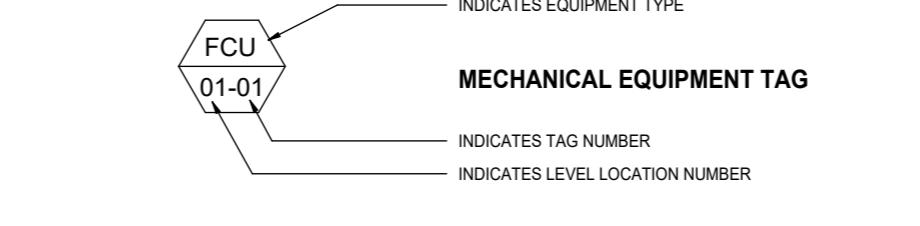
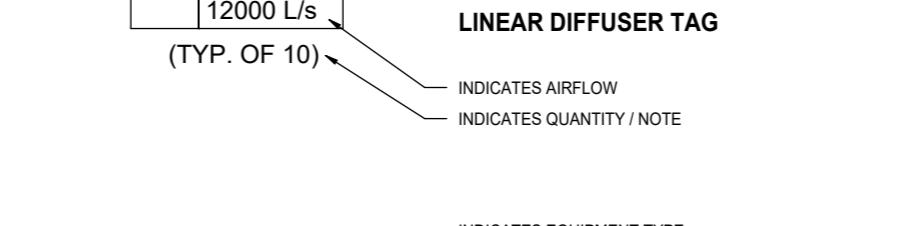
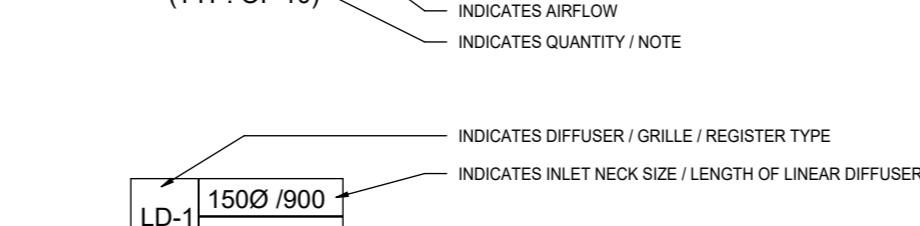
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MECHANICAL TAG SYMBOLS



M01-01
M50-01
M85-01-01

DRAWING LIST, LEGENDS, & SPECIFICATION
HVAC PLAN
LEVEL 1 HVAC DEMOLITION PLAN



AIR TERMINAL SCHEDULE

Tag	Description	Face Size	Material	Finish	Mounting	Manufacturer	Model	Notes
SD-1	LINEAR DIFFUSER	2 SLOT - 60" LENGTH	ALUMINUM	N/A	DRY WALL CEILING	EH PRICE	TBD3	
EG-1	EGG CRATE GRILLE WITH BORDER	SEE DRAWINGS	ALUMINUM	WHITE	DRY WALL CEILING	EH PRICE	80 SERIES	45 ANGLED, SIGHT RESISTANT CORE, COMPLETE WITH EXTRUDED ALUMINUM BORDER FRAM.

HVAC PLAN KEYNOTES

KEY NOTE VALUE KEY NOTE TYPE

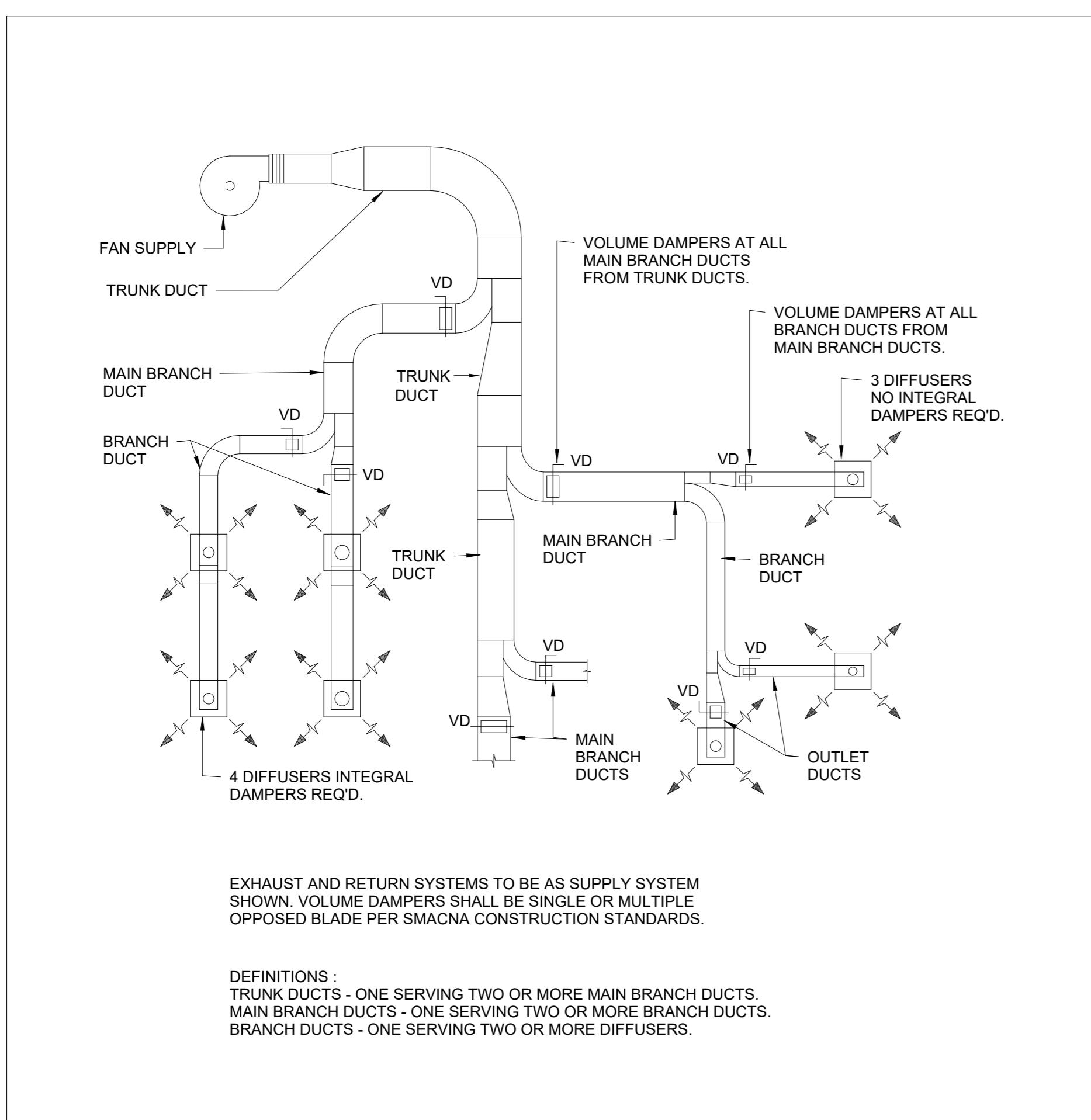
- 1 PROVIDE NEW LINEAR SUPPLY AIR DIFFUSER COMPLETE WITH REMOTE DAMPER. DIFFUSER DUCT RUN-OUT SHALL BE THE SAME SIZE AS THE DIFFUSER INLET UNLESS INDICATED OTHERWISE. UNIT SHALL BE INSTALLED ON PROVIDED ARCHITECTURAL SLOT. NOT BY THIS DIVISION. TYPICAL.
- 2 PROVIDE NEW DUCTED RETURN AIR GRILLE. DUCT RUN-OUT SHALL BE AS INDICATED.
- 3 CONNECT TO NEW DUCT TO EXISTING AND EXTEND AS INDICATED. DUCT SIZE SHALL BE AS INDICATED ON PLAN.
- 4 RELOCATED THERMOSTAT. THERMOSTATS SHALL BE INSTALLED AT NOMINALLY 48" A.F.F. UNLESS INDICATED OTHERWISE. INSPECT AND VERIFY THE OPERATION OF THE SYSTEM. PROVIDE WRITTEN REPORT IDENTIFYING ALL INOPERATIONAL OR DAMAGED PARTS AND PROVIDE AN ITEMIZED COST ASSOCIATED WITH THE REPAIR OR REPLACEMENT AS REQUIRED.
- 5 EXISTING ROOF TOP UNIT TO REMAIN. INSPECT AND VERIFY THE OPERATION OF THE SYSTEM. PROVIDE WRITTEN REPORT IDENTIFYING ALL INOPERATIONAL OR DAMAGED PARTS AND PROVIDE AN ITEMIZED COST ASSOCIATED WITH THE REPAIR OR REPLACEMENT AS REQUIRED.
- 6 EXISTING SANITARY EXHAUST FAN TO REMAIN. INSPECT AND VERIFY THE OPERATION OF THE SYSTEM. PROVIDE WRITTEN REPORT IDENTIFYING ALL INOPERATIONAL OR DAMAGED PARTS AND PROVIDE AN ITEMIZED COST ASSOCIATED WITH THE REPAIR OR REPLACEMENT AS REQUIRED.

GENERAL NOTES

- ALL EXISTING SERVICES SHOWN ARE APPROXIMATE AND BASED ON EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY ALL LOCATIONS ON SITE.
- CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES INVOLVED ON SITE.
- ENSURE DUCTWORK SERVING OTHER AREAS OUTSIDE OF THE SCOPE IS NOT DISTURBED.
- ALL WORK MUST BE COORDINATED WITH LANDLORD.
- CONTRACTOR SHALL VISIT SITE TO EXAMINE EXISTING CONDITIONS. CONTRACTOR TO PROPOSE SOLUTION FOR REVIEW TO THE CONSULTANT IF ANY INTERFERENCES OCCUR DUE TO SITE CONDITIONS.
- ENSURE BALANCING IS COMPLETED FOR ALL DIFFUSERS AND TERMINAL UNITS TAGGED ON DRAWINGS WITH REQUIRED AIR QUANTITIES.
- USE RIGID, ROUND DUCT ALWAYS FOR CONNECTION TO THE MAIN DUCT. BALANCING DAMPERS FOR THE SIA DIFFUSERS SHALL BE INSTALLED AT THE CONNECTION TO THE MAIN DUCT.
- ALL MATERIAL USED IN THE CEILING SPACE (RETURN AIR PLENUM) SHALL MEET AND EXCEED THE NATIONAL BUILDING CODE REQUIREMENTS FLAME AND SMOKE SPREAD/DEVELOPMENT RATINGS.
- CONTRACTOR TO HAND OVER IN GOOD SHAPE TO LANDLORD ALL BASE BUILDING MATERIALS NOT USED.
- INCLUDE THE USE OF SCISSOR LIFT TO FACILITATE THE INSTALLING OF UNITS AT HIGH LEVEL IN BID PRICE.
- TENANT'S HVAC SYSTEM AND RELATED ROOF TOP EQUIPMENT MUST BE COMPATIBLE WITH LANLORD'S LIFE SAFETY/SMOKE EVAC SYSTEM. VERIFY REQUIREMENTS WITH ON-SITE MALL OPERATIONS MANAGER.

DATE	ISSUED FOR	REV
09/26/2025	ISSUED FOR CLIENT REVIEW	
10/15/2025	ISSUED FOR PERMIT	
11/13/2025	ISSUED FOR BID	
12/04/2025	ADDENDUM 1	B

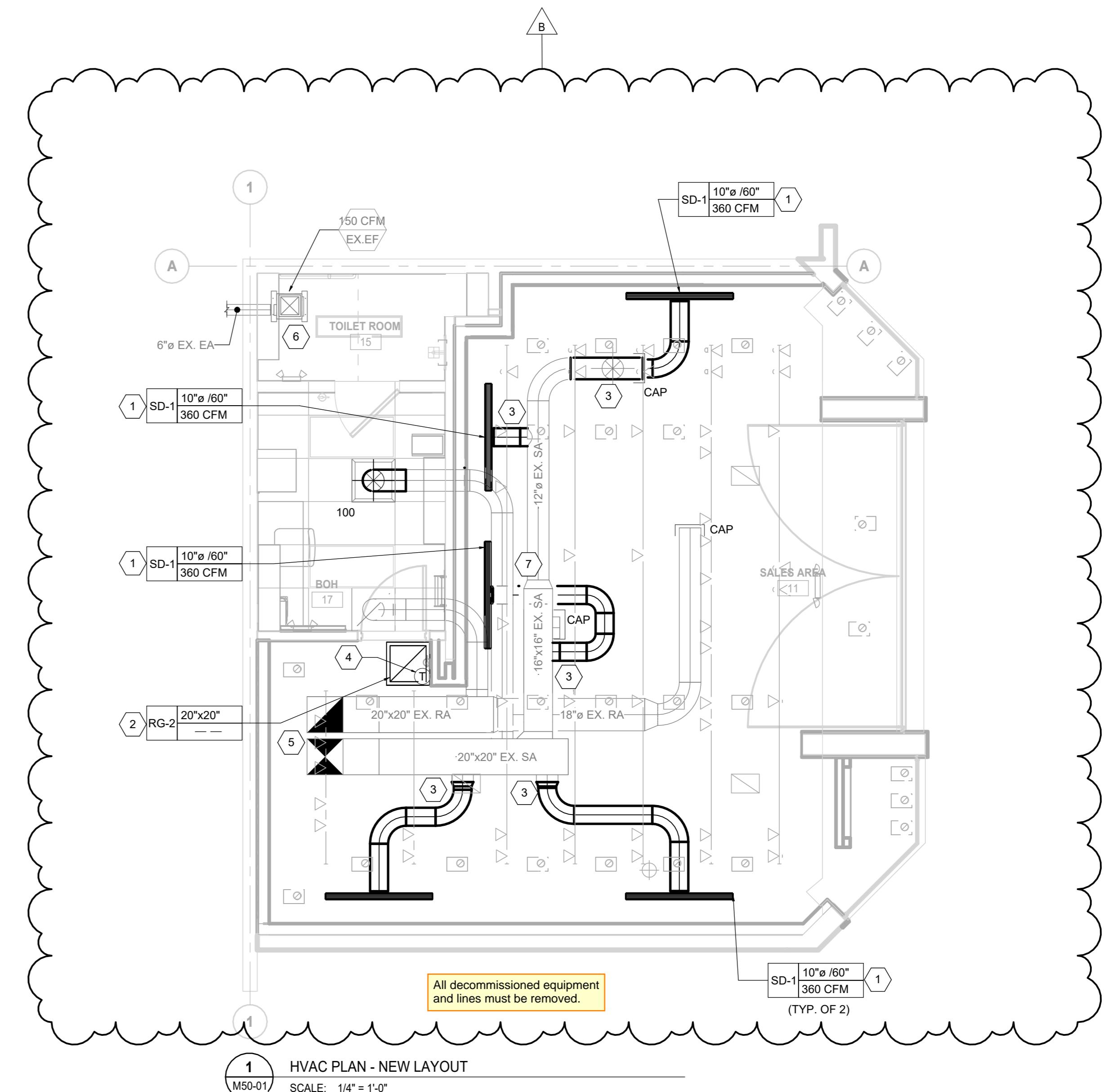
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BALANCING DAMPER DETAIL

M50-01

SCALE: NTS



HVAC PLAN - NEW LAYOUT

M50-01

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

HVAC PLAN KEYNOTES	
KEY NOTE VALUE	KEY NOTE TEXT
1	REMOVE EXISTING THERMOSTAT AND RELOCATE AS INDICATED ON DWG M50-01.
2	REMOVE EXISTING SUPPLY AIR DIFFUSER AND ASSOCIATED FLEXIBLE DUCTWORK OR AS INDICATED. CAP AT MAIN DUCT AS REQUIRED AND MAKE READY FOR NEW CONNECTIONS. (TYPICAL)
3	REMOVE EXISTING RETURN AIR GRILLE. (TYPICAL)
4	EXISTING CEILING MOUNTED EXHAUST FAN TO REMAIN.
5	EXISTING ROOF MOUNTED UNIT TO REMAIN.

GENERAL NOTES

- ALL EXISTING SERVICES SHOWN ARE APPROXIMATE AND BASED ON EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY ALL LOCATIONS ON SITE.
- CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES INVOLVED ON SITE.
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- ENSURE BALANCING IS COMPLETED FOR ALL DIFFUSERS AND TERMINAL UNITS TAGGED ON DRAWINGS WITH REQUIRED AIR QUANTITIES.
- USE RIGID ROUND DUCT ALWAYS FOR CONNECTION TO THE MAIN DUCT. BALANCING DAMPERS FOR THE S/A DIFFUSERS SHALL BE INSTALLED AT THE CONNECTION TO THE MAIN DUCT.
- ALL MATERIAL USED IN THE CEILING SPACE (RETURN AIR PLENUM) SHALL MEET AND EXCEED THE NATIONAL BUILDING CODE REQUIREMENTS FLAME AND SMOKE SPREAD/DEVELOPMENT RATINGS.
- CONTRACTOR TO HAND OVER IN GOOD SHAPE TO LANDLORD ALL BASE BUILDING MATERIALS NOT USED.
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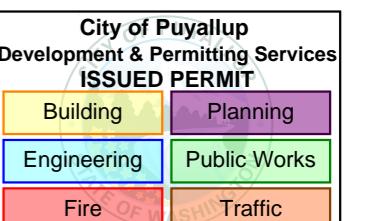
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This drawing has been prepared solely for the use of PANDORA and there are no representations of any kind made by NORR to any party with whom NORR has not entered into a contract.

This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer

Project Component

Key Plan



Consultants

Survey: N/A
Civil: N/A
Structural: N/A
Mechanical: NORR
Electrical: NORR
Interiors: N/A
Landscape: N/A

Seal(s)

Date Signed:
Dec. 8, 2025**NORR**

The Cannery
1631 Alhambra Blvd., Suite 100
Sacramento, CA, US 95816
norr.com

Project Manager
MS
Drawn
ES
Project Leader
JM
Checked
SM
Client
PANDORA

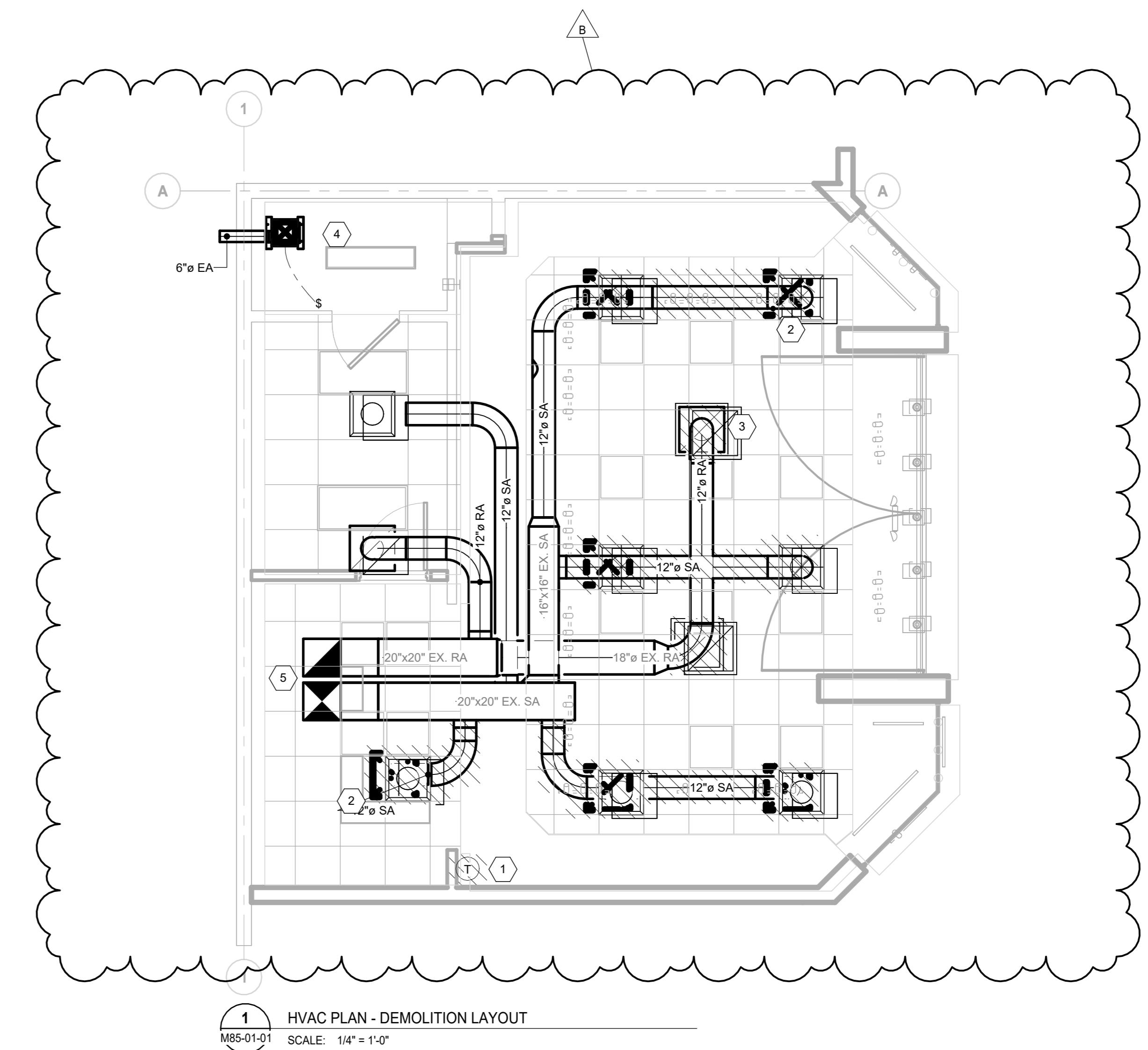
CLIENT ADDRESS

Project
SOUTH HILL MALL

3500 S MERIDIAN, PUYALLUP, WA 98373

Drawing Title
**LEVEL 1 HVAC
DEMOLITION PLAN**

Scale
1/4" = 1'-0"
Project No.
RT2025-0388
Drawing No.
M85-01-01



A. STANDARDS AND CODES	
A. GENERAL: THE WORK SHALL COMPLY WITH OR EXCEED THE REFERENCED STANDARDS AND CODES. ANY WORK WHICH CAN NOT MEET THE REFERENCED STANDARD AND CODES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR HIS WRITTEN APPROVAL BEFORE PROCEEDING WITH THE WORK.	
B. CODES: THE WORK SHALL COMPLY WITH THE FOLLOWING CODES:	
1. LOCAL PLUMBING CODE. 2. LOCAL GOVERNING BODIES HAVING JURISDICTION.	
C. STANDARDS: THE WORK SHALL COMPLY WITH THE FOLLOWING STANDARDS:	
1. ANSI AMERICAN NATIONAL STANDARDS INSTITUTE 2. ASSE AMERICAN SOCIETY OF SANITARY ENGINEERS 3. ASTM AMERICAN SOCIETY OF TESTING AND MATERIALS 4. AWWA AMERICAN WATER WORKS ASSOCIATION 5. CISPI CAST IRON SOIL PIPE INSTITUTE 6. NSF NATIONAL SANITATION FOUNDATION 7. UL UNDERWRITER LABORATORIES 8. ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS 9. NFPA NATIONAL FIRE PROTECTION ASSOCIATION 10. NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION 11. CS COMMERCIAL STANDARDS	
B. SCOPE OF WORK	
1. THIS CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION AND FACILITIES NECESSARY FOR, REASONABLY IMPLIED AND INCIDENTAL TO, THE FURNISHING, INSTALLATION, COMPLETION AND TESTING OF ALL WORK FOR THE PLUMBING SYSTEMS AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY JOB CONDITIONS, TO INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:	
A. COMPLETE SANITARY PIPING SYSTEMS OF WASTE, DRAINS, AND VENTS.	
B. COMPLETE DOMESTIC WATER PIPING SYSTEMS, APPURTENANCES AND INSULATION.	
C. FIXTURES AND EQUIPMENT AS SCHEDULED.	
D. TESTS AND ADJUSTMENTS.	
2. BEFORE STARTING WORK, THIS CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS AND SPECIFICATIONS TO SEQUENCE, COORDINATE, AND INTEGRATE THE VARIOUS ELEMENTS OF THE PLUMBING SYSTEM, MATERIALS, AND EQUIPMENT WITH OTHER CONTRACTORS TO AVOID INTERFERENCES AND CONFRONTATIONS.	
C. EQUIPMENT AND INSTALLATION	
1. ALL EQUIPMENT AND MATERIALS, EXCEPT AS OTHERWISE SPECIFIED, SHALL BE NEW, OF CURRENT PRODUCTION, FIRST QUALITY AND OF THE BEST OF EACH CLASS SPECIFIED. MATERIALS, PRODUCTS, AND EQUIPMENT SHALL BE DELIVERED TO JOBSITE WITH FACTORY PACKAGING BEARING MANUFACTURER'S NAME OR LABEL, AND UNION LABEL WHENEVER PRACTICAL.	
2. PIPING OF DISSIMILAR METALS MUST BE ELECTRICALLY SEPARATED.	
3. TEST WATER PRESSURE TO INSURE MINIMUM PSI MATCHES MOST DEMANDING EQUIPMENT SUPPLIED.	
4. INSTALL ALL NECESSARY PIPE HANGERS, SADDLES, AND CARRIERS TO PROPERLY SUPPORT ALL PIPING AND FIXTURES. HANGERS SHALL SUIT TYPE OF PIPING PROVIDED AND BE SPACED AT A MAXIMUM SPAN OF 5 FEET. PROVIDE SWAY AND SEISMIC BRACING WHERE REQUIRED BY CODES.	
5. STERILIZE WATER SYSTEM IN ACCORDANCE WITH LOCAL CODES.	
6. ESCUTCHEONS SHALL BE CHROME PLATED, SIZE AS REQUIRED AND PLACED AT ALL PIPE PENETRATIONS AT WALLS, FLOORS, AND CEILINGS IN FINISHED AREAS.	
7. LEAKAGE TESTS SHALL BE PER LOCAL CODES.	
8. FLASHING SHALL BE SEALED WATERTIGHT AND PERFORMED IN ACCORDANCE TO THE LANDLORD'S CRITERIA. USE A LANDLORD APPROVED ROOFING CONTRACTOR WHERE APPLICABLE.	
D. REGULATIONS AND PERMITS	
1. PROVIDE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES HAVING JURISDICTION.	
2. PAY FOR AND OBTAIN ALL REQUIRED PERMITS & SCHEDULE INSPECTIONS IN A TIMELY MANNER AS TO NOT DELAY THE PROJECT. OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO ENTERING MANHOLES, USE OF WATER FROM LOW PRESSURE HYDRANTS, DEMOLITION AND NEW WORK, ETC. PRIOR TO COMMENCE OF WORK.	
E. EXECUTION	
1. PLUMBING INSTALLATIONS GENERAL: SEQUENCE, COORDINATE, AND INTEGRATE THE VARIOUS ELEMENTS OF PLUMBING SYSTEMS, MATERIALS, AND EQUIPMENT. COMPLY WITH THE FOLLOWING REQUIREMENTS:	
A. COORDINATE SYSTEMS, EQUIPMENT, AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS.	
B. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS.	
C. ARRANGE FOR CHASES, SLOTS, AND OPENINGS IN OTHER BUILDING COMPONENTS DURING PROGRESS OF CONSTRUCTION, TO ALLOW FOR MECHANICAL INSTALLATIONS.	
D. COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SLEEVES TO BE SET IN POURED-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED.	
E. INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, WHERE INSTALLED EXPOSED IN FINISHED SPACES.	
F. INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS.	
G. PROVIDE ACCESS PANELS OR DOORS WHERE UNITS ARE CONCEALED BEHIND FINISHED SURFACES.	
H. COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS, TO THE EXTENT THAT THOSE INSTRUCTIONS AND RECOMMENDATIONS ARE MORE EXPLICIT OR STRINGENT THAN REQUIREMENTS CONTAINED IN CONTRACT DOCUMENTS.	
I. INSPECT MATERIALS OR EQUIPMENT IMMEDIATELY UPON DELIVERY AND AGAIN PRIOR TO INSTALLATION. REJECT DAMAGED AND DEFECTIVE ITEMS.	
F. VALVES	
1. DOMESTIC WATER	
A. BALL VALVES SHALL BE APOLLO, 2 PIECE BRONZE, WITH TFE TEFLON SEATS AND SEALS WITH STEEL LEVER HANDLES WITH STOPS. VALVE SHALL ONLY REQUIRE QUARTER TURN TO OPEN & CLOSE	
G. DRAINAGE AND VENT SYSTEMS	
1. SUMMARY THIS SECTION INCLUDES BUILDING SANITARY DRAINAGE AND VENT PIPING SYSTEMS.	
2. SEQUENCING AND SCHEDULING: COORDINATE THE INSTALLATION OF DRAINS IN POURED-IN-PLACE CONCRETE SLABS, TO INCLUDE PROPER DRAIN ELEVATIONS, INSTALLATION OF FLASHING, AND SLOPE OF SLAB TO DRAINS. COORDINATE WITH INSTALLATION OF SANITARY SEWER SYSTEMS AS NECESSARY TO INTERFACE BUILDING DRAINS WITH DRAINAGE PIPING SYSTEMS.	
3. ABOVE GROUND DRAINAGE AND VENT PIPE AND FITTINGS USE HUBLESS, CAST-IRON SOIL PIPING WITH COUPLINGS: HEAVY-DUTY, TYPE 301, STAINLESS STEEL COUPLINGS.	

4. BELOW GRADE DRAINAGE AND VENT FITTING USE CAST-IRON SOIL PIPE: ASTM A74, SERVICE WEIGHT, HUB-AND-SPIGOT SOIL PIPE AND FITTINGS. PIPE AND FITTINGS SHALL HAVE A HEAVY COATING OF COAL TAR VARNISH OR ASPHALTUM ON BOTH INSIDE AND OUTSIDE SURFACES. NEOPRENE COMPRESSION GASKETS: ASTM C564.

5. INSULATE ALL HORIZONTAL RUNS OF PIPING LOCATED IN CEILING SPACES OF TENANTS IN SPACES BELOW, WHERE APPLICABLE. INSULATION TO BE AS SPECIFIED FOR DOMESTIC WATER PIPING.

6. SNAKE SANITARY FOR A DISTANCE OF 100 FEET AND REPORT ANY BLOCKAGE.

7. INSULATE THE TRAP, SANITARY AND SUPPLY PIPES UNDER LAVATORY WITH TRUEBRO MODEL 102W "HAND LAV GUARD" INSULATION KIT OR MCGURE PRO WRAP INSULATION.

9. CLEAN-OUTS AND FLOOR DRAINS SHALL BE INSTALLED PER LOCAL CODES. WALL COVERS ARE TO BE STAINLESS STEEL AND FLOOR COVERS ARE TO BE BRASS. PROVIDE FLOOR COVERS WITH INSET AREA FOR CARPETED LOCATIONS. ALL CLEAN-OUT LOCATIONS SHALL BE APPROVED BY G.C.'S CONSTRUCTION MANAGER.

10. TEST DRAIN, WASTE, VENT PIPING BY A 10' WATER COLUMN FOR TWO HOURS.

H. DOMESTIC WATER

1. ABOVE GRADE: TYPE 'L' HARD COPPER TUBE: ASTM B 88, TYPES K AND L, WATER TUBE, ANNEALED TEMPER.
 - A. COPPER PRESSURE FITTINGS: ASME B16.18, CAST-COPPER-ALLOY OR ASME B16.22, WROUGHT-COPPER, SOLDER-JOINT FITTINGS. FURNISH WROUGHT-COPPER FITTINGS IF INDICATED.
 - B. BRONZE FLANGES: ASME B16.24, CLASS 150, WITH SOLDER-JOINT END. FURNISH CLASS 300 FLANGES IF REQUIRED TO MATCH PIPING.
 - C. COPPER UNIONS: MSS SP-123, CAST-COPPER-ALLOY, HEXAGONAL-STOCK BODY, WITH BALL-AND-SOCKET, METAL-TO-METAL SEATING SURFACES AND SOLDER-JOINT OR THREADED ENDS.
 - D. ABOVE GRADE TYPE 'L' HARD COPPER TUBE: ASTM B 88, TYPE L, WATER TUBE, DRAWN TEMPER.
 - E. COPPER-TUBING, KEYED COUPLINGS: COPPER-TUBE DIMENSIONS AND DESIGN SIMILAR TO AWWA C606. INCLUDE FERROUS HOUSING SECTIONS, GASKET SUITABLE FOR HOT WATER, AND BOLTS AND NUTS.
2. TEST WATER PIPING AT 100 PSIG FOR SIX HOURS.
3. SANITIZE ALL DOMESTIC WATER PIPING WITH CHLORINE-BASED SOLUTION ACCORDING TO CHICAGO PLUMBING CODE SECTION 18-29-405 PROCEDURES

I. INSTALLATION OF WATER HEATERS

GENERAL: INSTALL WATER HEATERS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL UNITS PLUMB AND LEVEL, FIRMLY ANCHORED IN LOCATIONS INDICATED, AND MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.

SUPPORT: PLACE UNITS ON CONCRETE PADS, ORIENT SO CONTROLS AND DEVICES NEEDING SERVICE AND MAINTENANCE HAVE ADEQUATE ACCESS.

START-UP, TEST, AND ADJUST ELECTRIC WATER HEATERS IN ACCORDANCE WITH MANUFACTURER'S START-UP INSTRUCTIONS. CHECK AND CALIBRATE CONTROLS. SET WATER TEMPERATURE AS INDICATED.

J. PLUMBING FIXTURE ADJUSTING AND CLEANING

1. OPERATE AND ADJUST FAUCETS AND CONTROLS. REPLACE DAMAGED AND MALFUNCTIONING FIXTURES, FITTINGS, AND CONTROLS.
2. OPERATE AND ADJUST DISPOSERS, HOT WATER DISPENSERS, AND CONTROLS. REPLACE DAMAGED AND MALFUNCTIONING UNITS AND CONTROLS.
3. ADJUST WATER PRESSURE AT DRINKING FOUNTAINS, ELECTRIC WATER COOLERS, AND FAUCETS, SHOWER VALVES, AND FLUSHOMETERS HAVING CONTROLS, TO PROVIDE PROPER FLOW AND STREAM.
4. REPLACE WASHERS OF LEAKING AND DROPPING FAUCETS AND STOPS.
5. CLEAN FIXTURES, FITTINGS, AND SPOUT AND DRAIN STRAINERS WITH MANUFACTURERS' RECOMMENDED CLEANING METHODS AND MATERIALS.

K. PLUMBING FIXTURE PROTECTION

1. PROVIDE PROTECTIVE COVERING FOR INSTALLED FIXTURES AND FITTINGS.
2. DO NOT ALLOW USE OF FIXTURES FOR TEMPORARY FACILITIES, EXCEPT WHEN APPROVED IN WRITING BY THE OWNER.

L. PIPE INSULATION

1. INSULATE ALL DOMESTIC WATER PIPING SYSTEMS.

ACCEPTABLE MANUFACTURERS

1. MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS OF ONE OF THE FOLLOWING:
 - A. ARMSTRONG WORLD INDUSTRIES, INC.
 - B. CERTAINTEED CORP.
 - C. JOHNS MANVILLE INSULATIONS
 - D. KNAUF FIBER GLASS
 - E. OWENS-CORNING FIBERGLAS CORP.
2. PIPING INSULATION MATERIALS
3. FIBERGLASS PIPING INSULATION: ASTM C 547; 'K' VALUE OF 0.24 AT 75 DEGREES F; NONCOMBUSTIBLE.
4. JACKETS FOR PIPING INSULATION: ASTM C 921, TYPE I (VAPOR BARRIER) FOR PIPING WITH TEMPERATURES BELOW AMBIENT, TYPE II FOR PIPING WITH TEMPERATURES ABOVE AMBIENT. TYPE I MAY BE USED FOR ALL PIPING AT INSTALLER'S OPTION.
5. ENCASE PIPE FITTINGS INSULATION WITH ONE-PIECE PRE MOLDED PVC FITTING COVERS, FASTENED AS PER MANUFACTURER'S RECOMMENDATIONS.
6. STAPLES, BANDS, WIRES, AND CEMENT: AS RECOMMENDED BY INSULATION MANUFACTURER FOR APPLICATIONS INDICATED. USE STAINLESS STEEL STAPLES IF REQUIRED FOR PIPING BELOW AMBIENT TEMPERATURE.
7. ADHESIVES, SEALERS, AND PROTECTIVE FINISHES: AS RECOMMENDED BY INSULATION MANUFACTURER FOR APPLICATIONS INDICATED.

M. PLUMBING SUPPORTS AND ANCHORS

PART 1 - GENERAL

1.1 SUMMARY

THIS SECTION INCLUDES THE FOLLOWING:

- A. HORIZONTAL-PIPING HANGERS AND SUPPORTS.
- B. HANGER-ROD ATTACHMENTS.
- C. BUILDING ATTACHMENTS.
- D. SADDLES AND SHIELDS.

PART 2 - PRODUCTS

2.1 PIPING SYSTEMS

HANGERS AND SUPPORT COMPONENTS SHALL BE FACTORY FABRICATED OF MATERIALS, DESIGN, AND MANUFACTURER COMPLYING WITH MSS SP-58.

1. COMPONENTS SHALL HAVE GALVANIZED COATINGS WHERE INSTALLED FOR PIPING AND EQUIPMENT THAT WILL NOT HAVE FIELD-APPLIED FINISH.
2. PIPE ATTACHMENTS SHALL HAVE COPPER PLATED OR NONMETALLIC COATING FOR ELECTROLYTIC PROTECTION WHERE ATTACHMENTS ARE IN DIRECT CONTACT WITH COPPER TUBING.

PLUMBING SUBMITTALS SHALL BE PROVIDED FOR THE FOLLOWING ITEMS:

1. PIPING AND FITTING MATERIALS.
2. PLUMBING VALVES AND SPECIALTIES.
3. PIPING HANGER AND ATTACHMENT ASSEMBLIES.
4. PIPING INSULATION.
5. ALL SCHEDULED PLUMBING FIXTURES, DRAINS, AND CLEANOUTS.
6. UTILITY CONNECTION DETAILS REQUIRED BY AUTHORITIES HAVING JURISDICTION.

DRAWING LIST - PLUMBING & DRAINAGE

P01-01 DRAWING LIST, LEGENDS, & SPECIFICATION
P30-01 LEVEL 1 OVERALL PLUMBING PLAN

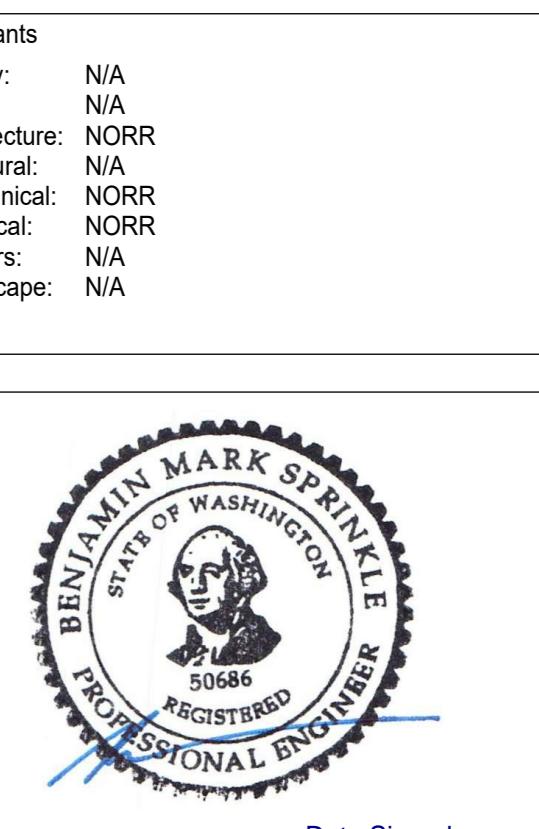
DATE	ISSUED FOR	REV
09/26/2025	ISSUED FOR CLIENT REVIEW	
10/15/2025	ISSUED FOR PERMIT	
11/13/2025	ISSUED FOR BID	
12/04/2025	ADDENDUM 1	B

PRCT120251416

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PLUMBING SYMBOLS

	FLOOR CLEANOUT
	FLOOR DRAIN
	WATER METER
	SANITARY SEWER - BELOW GRADE
	SANITARY SEWER - ABOVE GRADE
	SANITARY VENT
	STORM SEWER
	DOMESTIC WATER COLD
	DOMESTIC WATER HOT
	REFRIGERANT SUCTION
	REFRIGERANT LIQUID
	PIPE DROP
	PIPE RISE
	PIPE BREAK
	PIPE CAP
	PIPE CUT
	ISOLATION VALVE
	PLUG VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	STRAINER
	UNION



Date Signed:
Dec. 8, 2025

NORR

The Cannery
1631 Alhambra Blvd., Suite 100
Sacramento, CA, US 95816
norr.com

Project Manager
MS
Drawn
ES
Project Leader
Checked
SM
Client
PANDORA

Project
SOUTH HILL MALL
3500 S MERIDIAN, PUYALLUP, WA 98373

Drawing Title

DRAWING LIST, LEGENDS, & SPECIFICATION

Only plumbers certified by the Washington State Department of Labor and Industries (L&I) can legally perform plumbing work (exception: Property owners can perform plumbing work on their own properties).

PLUMBING PIPE MATERIALS

CONDITION/LOCATION	MATERIAL TYPE
ABOVE GROUND WATER	TYPE "L" COPPER
BELLOW GROUND WATER	TYPE "K" COPPER
ABOVE GROUND WASTE	CAST IRON
BELLOW GROUND WASTE	CAST IRON
VENT (UNDER 2")	TYPE "M" COPPER
VENT (ABOVE 2")	CAST IRON
CONDENSATE PIPING	TYPE "L" COPPER

Scale
12" = 1'-0"

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURE/MODEL	LOCATION	REMARKS
WC-1	WATER CLOSET (ADA)	AMERICAN STANDARD C CADET FLOW WISE , 2467016.020	SEE PLANS	FLOOR MOUNTED, PRESSURE ASSIST FLUSH TANK TOILET, ADA HEIGHT, 1.28 GPF FLUSH, WHITE VITREOUS CHINA, TOP SPUD, ELEGANT BOWL. PROVIDE WITH WHITE OPEN FRONT SEAT LESS COVER.

DOMESTIC WATER HEATER SCHEDULE

TAG	SERVICE	MAKE/MODEL	AT	ELECTRICAL	
			RISE		
IHWH-1	MOP SINK	INSTANT FLOW- SR-20L/208	71°F @ 0.35 gpm (min)	4,160	208/1/60
IHWH-2	WASHROOM	INSTANT FLOW- SR-20L/208	71°F @ 0.35 gpm (min)	4,160	208/1/60

REMARKS:

1. WATER CONNECTIONS AND SUPPLIED T&P VALVE TO BE LOCATED ON TOP OF THE UNIT.
2. CONTRACTOR TO SUBMIT MODIFIED PIPING DIAGRAMS IN THE EVENT THAT ONE OF THE OTHER MANUFACTURERS LISTED IN THE SPECIFICATIONS ARE UTILIZED IN LIEU OF MANUFACTURER LISTED ABOVE.
3. CONTRACTOR TO PROVIDE INTERCONNECTING WIRING FOR HEATERS AS SHOWN ON WIRING DIAGRAMS IN ACCORDANCE WITH DIVISION -16 SPECIFICATIONS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND COMPENSATING OTHER TRADES FOR INCREASED ELECTRICAL REQUIREMENTS WHICH MAY OCCUR FROM UTILIZING OTHER ACCEPTABLE EQUIPMENT.
5. ALL UNITS SHALL BE MANUFACTURED FOR A MINIMUM 0.35 GPM WORKING PRESSURE.
6. PROVIDE WATTS DET-5-M1 ASNE RATED EXAABSUB TANK.
7. WATER HEATER TO BE MOUNTED ABOVE MOP SINK ON SHELF.
8. INSTALL WITH HEAT TRAP.

PLUMBING PLAN KEYNOTES

KEY NOTE VALUE	KEY NOTE TEXT
1	CONNECT TO EXISTING 3/4"Ø DOMESTIC COLD WATER SUPPLY IN THE CEILING SPACE AT THIS LOCATION AND EXTEND AS INDICATED.
2	EXISTING LAVATORY TO REMAIN. PROVIDE PROTECTION FROM DUST AND DEBREE DURING THE DURATION OF THE CONSTRUCTION.
3	REMOVE EXISTING WATERCLOSET AND REPLACE WITH NEW PRESSURE ASSISTED WATERCLOSET. EXISTING GASKET TO BE REMOVED AND REPLACED WITH NEW. RECONNECT EXISTING PLUMBING SERVICES TO MAKE NEW FIXTURE IN GOOD WORKING ORDER.
4	EXISTING MOP SINK TO REMAIN. PROVIDE PROTECTION FROM DUST AND DEBREE DURING THE DURATION OF THE CONSTRUCTION.
5	REMOVE EXISTING DOMESTIC HOT WATER HEATER, ASSOCIATED SUPPORTS, AND PIPING IN CEILING SPACE. CAP PLUMBING SERVICES TO UNIT AT SOURCE. REMOVE ALL ASSOCIATED HOT WATER PIPING TO PLUMBING FIXTURES. POWER DISCONNECT BY ELECTRICAL DIVISION.
6	PROVIDE NEW WALL MOUNTED INSTANT HOT WATER HEATER. EXTEND 3/4"Ø DCW TO WATER HEATER LOCATION. EXTEND HOT WATER PIPE TO WATER HEATER TO NEW PLUMBING FIXTURE. POWER BY ELECTRICAL DIVISION.

GENERAL NOTES

- DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON THE SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
- VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED AND BE REVIEWED BY THE BASE BUILDING STRUCTURAL ENGINEER.
- REFER TO THE STANDARD DETAILS AND DETAILS SHEETS FOR ADDITIONAL INFORMATION.
- TRAPPED AND PRIME ALL FLOOR DRAINS AND HUB DRAINS.
- PROVIDE P-TRAP AS REQUIRED BY APPLICABLE LOCAL CODES.

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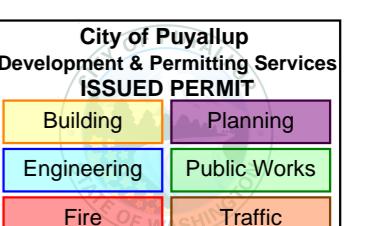
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This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer

Project Component

Key Plan



Consultants
Survey: N/A
Civil: N/A
Structural: NORR
Mechanical: NORR
Electrical: NORR
Interiors: N/A
Landscape: N/A

Seal(s)

Date Signed:
Dec. 8, 2025**NORR**

The Cannery
1631 Alhambra Blvd., Suite 100
Sacramento, CA, US 95816
norr.com

Project Manager
MS
Project Leader
JM
Client

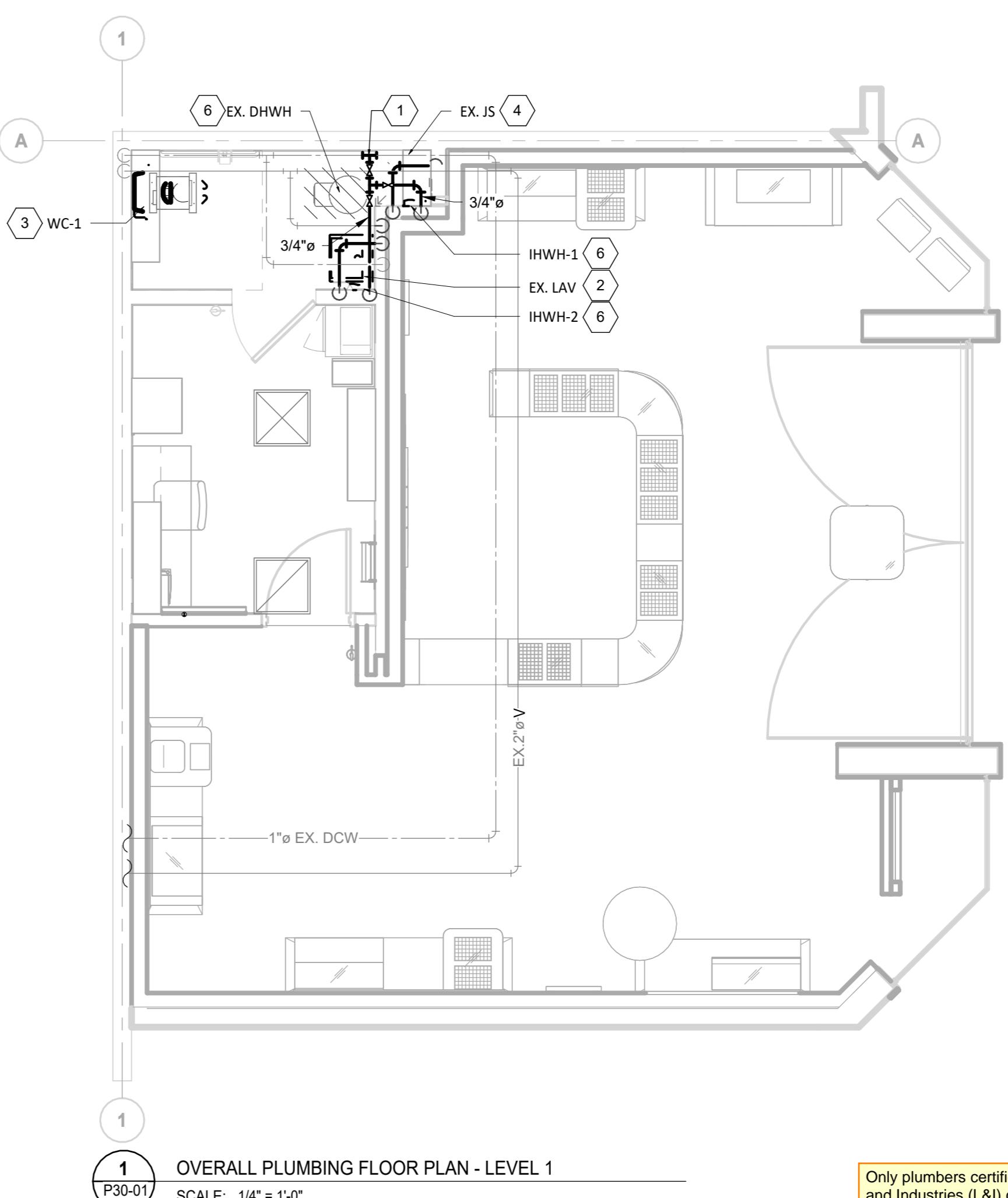
PANDORA

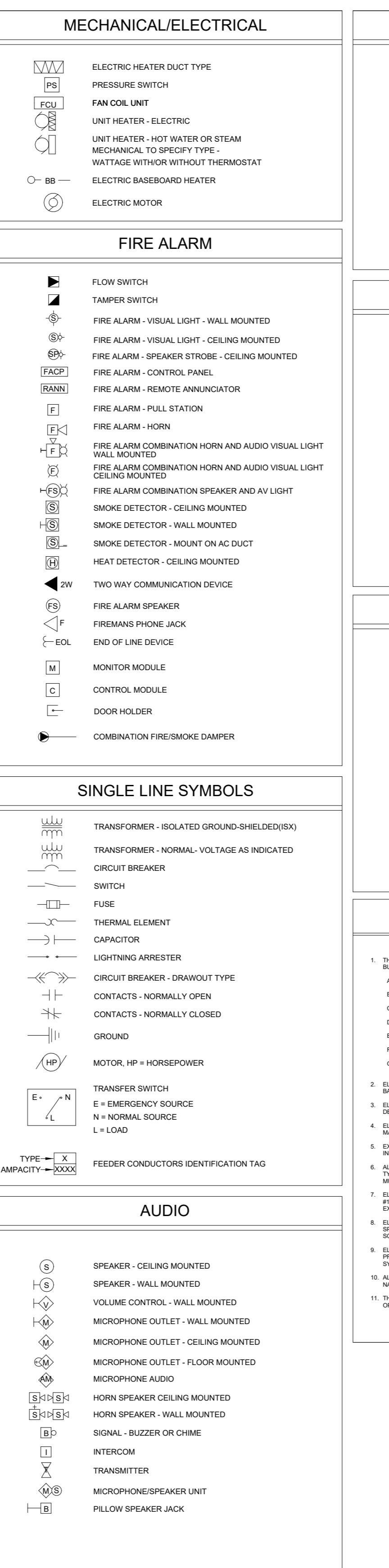
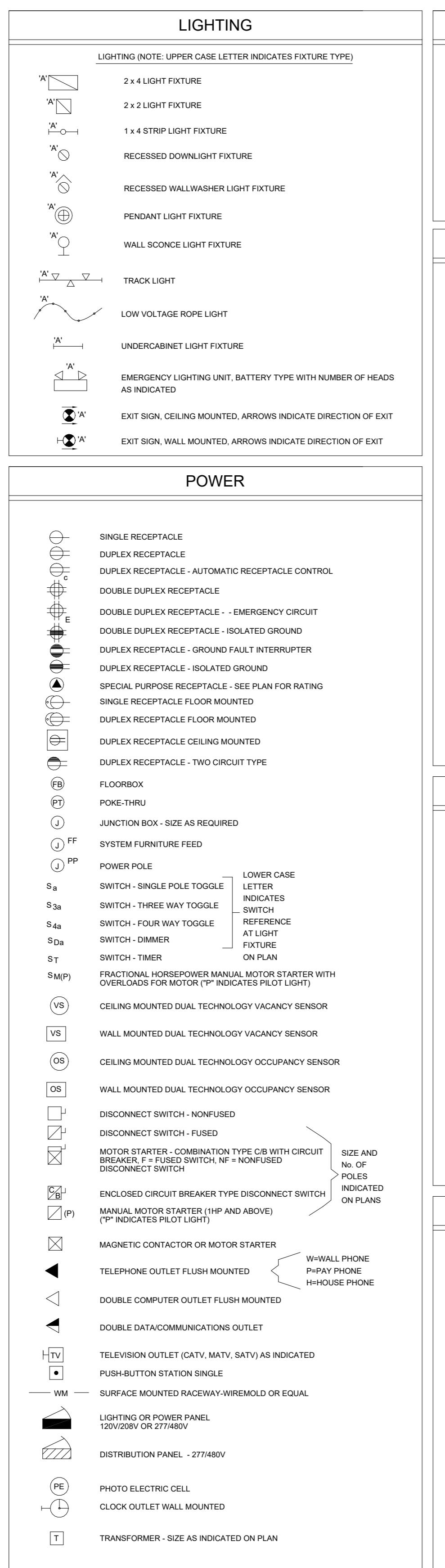
CLIENT ADDRESS

Project
SOUTH HILL MALL

Drawing Title

1
**LEVEL 1 OVERALL
PLUMBING PLAN**

Scale
1/4" = 1'-0"Project No.
RT2025-0388Drawing No.
P30-01



1. 1. MOUNTING HEIGHTS LIST THE HEIGHT OF DEVICE UNLESS OTHERWISE NOTED AND MUST CONFORM TO ADA, NFPA, ANSI 117.1 REQUIREMENTS UNLESS OTHERWISE NOTED.	
2. CONTRACTOR TO VERIFY FINAL LOCATION OF ALL DEVICES WITH ARCHITECT AND/OR INTERIOR DESIGNER.	
3. WHERE DEVICES FALL ON TWO SURFACE FINISHES, RAISE THE DEVICE TO BE ON A SINGLE FINISH, COORDINATE WITH ARCHITECT.	
FIRE ALARM GONG AND BELL (WALL MOUNTED)	6'-0" MAX. HT. OR 6' BELOW CLG. WHICHEVER IS LOWER
FIRE ALARM STROBE LIGHT & SIGNALING DEVICES (WALL MOUNTED)	ENTIRE LENS IS NOT LESS THAN 80° AND NOT GREATER 90° AFF. WHERE LOW CEILING DO NOT PERMIT MOUNTING AT MIN. 80° DEGREE, DEVICE MUST BE MOUNTED WITHIN 6' OF THE CEILING.
TOP OF LIGHTING AND/OR POWER PANELS IN COMMON BUILDING SPACES TOP OF TELEPHONE CABINET(MAXIMUM)	6'-2" AFF
TOP OF LIGHTING AND/OR POWER PANELS IN BULB UNITS	4'-0" AFF TO HIGHEST OPERABLE DEVICE
TOP OF BRICK BUILDING EXIT FIXTURE (NOT LOCATED ABOVE DOORS)	12" BELOW FINISHED CEILING TO CENTERLINE
TOP OF SAFETY DISCONNECT SWITCH, CONTACTORS, MAGNETIC MOTOR STARTERS	6'-0" MAXIMUM AFF
"*"	6" BELOW FINISHED CEILING
"*"	4'-0" AFF OR 6' ABOVE COUNTER
"."	BELOW COUNTER
TELEPHONE (TOP OF COIN SLOT), TELEPHONE OUTLET (WALL), LIGHT SWITCHES	3'-6" AFF
MANUAL CONTROL DEVICES, FIRE ALARM PULL STATION, FIRE PHONE JACKS	3'-6" AFF
RECEPTACLES, TELEPHONE OUTLETS (DESK), TELEVISION OUTLETS, COMPUTER OUTLETS	1'-6" (MIN.) AFF
FINISHED FLOOR ELEV. (BASE)	0'-0"
RECEPTACLES AT COUNTER OR OBSTRUCTED (SIDE REACH)	41" TO CENTER LINE AFF.
RECEPTACLES AT COUNTER WITH KNEE SPACE	41" TO CENTER LINE AFF.

A	AMPERE(S)	LP	LIGHTING PANEL
AC	AMPERE, CURR	LPS	LOW POWER SOURCE
AF	AMP. FRAME	MATV	MECHANICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISHED GRADE	MCM	THOUSAND CIRCULAR MIL(S)
AL	ALUMINUM	MAGSTR	MAGNETIC STARTER
AT	AMPERE, THOUS.	MTA	MOTOR, TYPE A
ATS	AUTOMATIC TRANSFER SWITCH	MIC	MICROPHONE
AWG	AMERICAN WIRE GAUGE	MTD	MOUNTED
BDC	BOTTOM OF CONDUIT	MTG	MOUNTING
BFC	BELOW FINISHED CEILING	MTR	MOTOR
C	CABLE	MUL	MULTI-UP AIR UNIT
CATV	CIRCUIT BREAKER	NC	NORMALLY CLOSED
CC	CONTROL CABINET	NF	NONUSED
CCTV	CLOSED CIRCUIT TELEVISION	NF	NOT IN CONTRACT
CKT	CIRCUIT	NL	NIGHT LIGHT
CLG	CEILING	NO	NOT OPEN
CO	CONDUIT ONLY	NOS	NOT TO SCALE
CP	CONTROL PANEL	OL	OVERLOAD ELEMENT
CT	CURRENT TRANSFORMER	PC	PLUMBING CONTRACTOR
CU	COPPER	PE	PHOTO ELECTRIC CELL
DC	DC CURRENT	PF	POWER FACTOR
DE	DUAL ELEMENT	PL	PLUG LIGHT
DP	DOUBLE POLE	PP	POWER PANEL
DS	DISCONNECT SWITCH	PRI	PRIMARY
DT	DOUBLE THROW	PS	PULL SWITCH
EC	EXT. CONTRACTOR	PTZ	PAN/TILT/ZOOM CAMERA
EF	EXHAUST FAN	R	RELAY
EHTR	ELECTRIC HEATER	RC	REFLECTED CONTROL
EM	EMERGENCY LIGHTING	RCP	REFLECTED CEILING PLAN
EMT	ELECTRICAL METALLIC TUBING	RECP	RECEPTACLE
EOL	END OF LINE RESISTOR	SATV	SATELLITE ANTENNA TELEVISION
EUH	ELECTRIC UNIT HEATER	SEC	SECONDARY
F	FUSED	SP	SINGLE POLE
FA	FIRE ALARM	SPKR	SPEAKER
FACP	FIRE ALARM CONTROL PANEL	ST	SHUNT TRIP
FDR	FIRE ALARM PULL STATION	SW	SWITCH
FL	FLOOR	SWBD	SWITCHBOARD
GC	GENERAL CONTRACTOR	T	TELEPHONE
GFI	GROUND FAULT INTERRUPT	TC	TIME CLOCK
GND	GROUND	TDC	TIME DELAY CLOSED
HID	HIGH INTENSITY DISCHARGE	TDO	TIME DELAY OPEN
HPS	HIGH PRESSURE SODIUM	TV	TELEVISION
HT	ELECTRIC HEAT TRACE	UFD	UNDERFLOOR DUCT
HW	HEAVYWALL RIGID CONDUIT	UG	UNDER GROUND
HZ	HERTZ/SEC. IN CYCLES PER SECOND)	UH	UNIT HEATER
I	INTERRUPT	UN	UNLESS OTHERWISE NOTED
IG	ISOLATED GROUND	V	VOLTS
IMC	INTERMEDIATE METALLIC CONDUIT	VA	VOLT AMPERE(S)
INC	INCANDESCENT	VAR	VOLT AMPS REACTIVE
JB	JUNCTION BOX	VP	VAPOR PROOF
KOML	KILOVOLT AMPERE(S)	W	WATERPROOF
KVAR	KILOVARS	WP	WEATHERPROOF
KW	KILOWATT(S)	XFMR	TRANSFORMER
		XP	EXPLOSION PROOF

GENERAL

LEGEND NOTES

THIS SHEET IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT.

DRAWING LIST - ELECTRICAL

E0.1	DRAWING LIST & LEGENDS
E0.2	ELECTRICAL SPECIFICATIONS
E0.3	ELECTRICAL SPECIFICATIONS
E0.4	ELECTRICAL SCHEDULES & DETAILS
E1.1	POWER PLAN
E2.1	LIGHTING PLAN
E3.0	COMCHECK
E1.1	POWER & LIGHTING DEMOLITION PLAN

Separate Electrical Permit is required with the Washington State Department of Labor & Industries.
<https://lni.wa.gov/licensing-permits/electrical/electrical-permits-fees-and-inspections>
 or call for Licensing Information: 1-800-647-0982

DATE	ISSUED FOR	REV
09/26/2025	ISSUE FOR CLIENT REVIEW	
10/15/2025	ISSUED FOR PERMIT	
11/13/2025	BID SET	A
12/04/2025	ADDENDUM 1	B

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Project Component
 Key Plan

 Consultants
 Survey: N/A
 Civil: N/A
 Architecture: NORR
 Structural: N/A
 Mechanical: NORR
 Electrical: NORR
 Interiors: N/A
 Landscape: N/A



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NORR
 150 W. Jefferson Avenue, Suite 1300
 Detroit, MI, US 48226
 norr.com

Project Manager M. SCHLOSSER Drawn J. VARGHESE
 Project Leader Checked M. GOOD
 Client PANDORA

1
PUYALLUP, WA
 SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA

Drawing Title
DRAWING LIST & LEGENDS
 Scale 1/8" = 1'-0"
 Project No. RT2025-0370
 Drawing No. E0.1
 Autodesk Docs/Pandora - WA Puyallup - South Hill Mall R2025-0388_ELI_Pandora_WA Puyallup_R24.vrt

GENERAL

A. PROVIDE EQUIPMENT, MATERIALS AND LABOR IN COMPLETE ACCORDANCE WITH THE LATEST VERSION OF THE FOLLOWING:

- STATE AND LOCAL ELECTRICAL CODES.
- THE STATE AND CITY BUILDING CODES.
- STATE AND FEDERAL ENERGY CODES (ASHRAE 90.1 AS A MINIMUM).
- THE NATIONAL ELECTRICAL CODE NFPA 70 (AS A MINIMUM).
- THE APPROPRIATE LOCAL AND STATE STANDARDS.
- THE REQUIREMENTS OF UNDERWRITERS' LABORATORIES, INC.
- ANSI, IEEE AND NEMA STANDARDS.
- ILLUMINATING ENGINEERING SOCIETY STANDARDS AND RECOMMENDED PRACTICES
- CERTIFIED BALLAST MANUFACTURERS.
- OWNER'S AND ALL AGENCIES HAVING JURISDICTION.
- OWNER'S OR BUILDINGS INSURANCE REGULATIONS AND REQUIREMENTS GOVERNING SUCH WORK.
- LOCAL UTILITY COMPANIES AND ANY INCENTIVE PROGRAMS FOR ENERGY EFFICIENCY.
- PROVIDE WORK REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.
- ACCESSIBILITY REQUIREMENTS (ADAAG, STATE REQUIREMENTS, FEDERAL (UAS))
- LANDLORD AND BUILDING REQUIREMENTS.

B. THE WORK COVERED CONSISTS OF PROVIDING ALL LABOR AND MATERIALS NECESSARY TO INSTALL, COMPLETE AND READY FOR CONTINUOUS OPERATION THE ELECTRICAL SYSTEMS, APPARATUS AND EQUIPMENT INDICATED AND REQUIRED.

C. SUBMIT TO THE ARCHITECT SHOP DRAWINGS OF ALL SPECIFIED FIXTURES, EQUIPMENT AND APPARATUS FOR REVIEW.

D. SUBMIT FOR AND OBTAIN ALL PERMITS, CERTIFICATIONS, REVIEWS AND APPROVALS REQUIRED FOR INSTALLATION OF ANY MATERIAL OR SYSTEM AS PART OF THE WORK INCLUDING ALL FEES OR EXPENSES INCURRED.

E. INSTRUCTIONS: INSTRUCT OWNER'S OPERATING PERSONNEL REGARDING OPERATION AND MAINTENANCE OF SYSTEMS INSTALLED. A TWO HOUR INSTRUCTION PERIOD SHALL BE PROVIDED PER SYSTEM AFTER COMPLETION OF PROJECT. OPERATION AND MAINTENANCE MANUALS SHALL BE PROVIDED.

F. RECORD DRAWINGS: MAINTAIN AT THE JOB, AT ALL TIMES, A COMPLETE AND SEPARATE SET OF BLACKLINE PRINTS OF THE ELECTRICAL DRAWINGS, MARK DRAWINGS CLEARLY, NEATLY, ACCURATELY AND PROMPTLY AS THE WORK PROGRESSES. PROVIDE TO THE OWNER REPRODUCIBLE RECORD DRAWINGS AT JOB COMPLETION PRIOR TO FINAL PAYMENT.

WORK SCOPE

A. THE SCOPE OF WORK CONSISTS OF ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO PROVIDE ALL WORK INDICATED ON DRAWINGS AND SPECIFICATIONS, UNLESS SPECIFICALLY INDICATED AS EXISTING OR WORK OF OTHER TRADES. WORK AND SYSTEMS SHALL BE COMPLETE, INSTALLED AND FULLY OPERATIONAL, AS INDICATED ON THE DRAWINGS, SPECIFIED HEREIN AND AS NECESSARY FOR A PROPER INSTALLATION.

B. BEFORE SUBMITTING BID EXAMINE ALL DRAWINGS AND SPECIFICATION, INCLUDING OTHER DIVISIONS, FOR REQUIREMENTS THAT AFFECT WORK OF THIS DIVISION AND INCLUDE IT IN THE SCOPE OF WORK FOR THIS SECTION WHETHER OR NOT SUCH WORK IS SPECIFICALLY MENTIONED IN THIS DIVISION.

C. PROVIDE POWER OUTLETS, LIGHT SWITCHES, SIGNAL ALARM SYSTEM AND ASSOCIATED WIRING AND CONDUIT.

D. PROVIDE TELEPHONE/COMMUNICATIONS OUTLETS AND RACEWAYS.

E. PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRED BY OSHA AND THE GENERAL CONDITIONS. PROVIDE TEMPORARY LIGHT AND POWER SYSTEM (AS PART OF CONTRACT) ADEQUATE FOR THE REQUIREMENTS OF ALL TRADES DURING CONSTRUCTION. TEMPORARY SYSTEM SHALL BE DISCONNECTED AND REMOVED WHEN PERMANENT SERVICE IS IN OPERATION.

F. ARRANGE WORK TO MINIMIZE DISRUPTION OF THE EXISTING BUILDING. NOTIFY, ARRANGE AND RECEIVE APPROVAL FOR OUTAGES AT LEAST TWO WEEKS IN ADVANCE.

G. WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

- ELECTRICAL DISTRIBUTION SYSTEM
- BUILDING POWER SYSTEM (NORMAL, EMERGENCY AND EXIT) INCLUDING ALL FIXTURES, LAMPS, PLASTER AND TILE FRAMES, SWITCHES, OUTLETS, WIRING RACEWAYS AND ALL OTHER COMPONENTS AND FITTINGS REQUIRED FOR A COMPLETE LIGHTING SYSTEM.
- EMPTY RACEWAY SYSTEMS FOR TELEPHONE, DATA, AND SECURITY.
- POWER AND ALARM WIRING CONNECTIONS FOR HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM MOTORS AND EQUIPMENT. PROVIDE ALL MOTOR STARTERS EXCEPT FOR PACKAGED SYSTEMS WITH INTEGRAL STARTERS. INSTALL AND WIRE LINE VOLTAGE THERMOSTATS, DISCONNECTS, AND DEVICES FURNISHED UNDER DIVISION 23.
- POWER CONTROL, AND ALARM WIRING CONNECTIONS FOR THE PLUMBING AND FIRE PROTECTION SYSTEMS EQUIPMENT. PROVIDE ALL MOTOR STARTERS EXCEPT FOR PACKAGED SYSTEMS WITH INTEGRAL STARTERS.
- WIRING FOR SECURITY SYSTEMS.
- RECEPTACLES WITH WIRING AND ALL REQUIRED COMPONENTS.
- WIRING FOR OWNER'S EQUIPMENT.
- FIRE ALARM SYSTEM COMPLETE WITH ALL DEVICES AND WIRING.
- ALL OTHER SYSTEMS HERINAFTER SPECIFIED OR INDICATED ON THE CONTRACT DRAWINGS, COMPLETE, LEAVING READY AN ELECTRICAL SYSTEM IN PERFECT OPERATING CONDITION.

RELATED WORK

A. THE FOLLOWING EQUIPMENT ITEMS AND WORK SHALL BE THE RESPONSIBILITY OF OTHERS UNLESS OTHERWISE INDICATED:

- TELEPHONE AND DATA SYSTEM CABLING, EQUIPMENT AND INSTRUMENTS ARE TO BE FURNISHED AND INSTALLED BY OWNER.
- SECURITY SYSTEM EQUIPMENT AND CABLING SHALL BE FURNISHED AND INSTALLED BY THE OWNER.
- AUTOMATIC TEMPERATURE CONTROL SYSTEM COMPONENTS, WIRING AND INTERLOCK WIRING ASSOCIATED WITH THE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM WILL BE FURNISHED, MOUNTED, WIRED AND CONNECTED UNDER DIVISION 23.
- FIRE PAGING, EXCEPT FACTORY FINISHED ITEMS.
- WIRING FOR SECURITY SYSTEMS HAVING MECHANICAL CONNECTIONS. REFER TO WORK INVOLVING MECHANICAL TRADES.
- INSTALLATION, WIRING AND CONNECTING OF AUTOMATIC TEMPERATURE CONTROLS.
- CONTROL DEVICES FOR HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT.
- CONTROL DEVICES FOR PLUMBING EQUIPMENT.

QUALITY ASSURANCE

A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF THE APPLICABLE REFERENCE STANDARDS PUBLISHED BY THE NFPA, UL, ANSI, IEEE, ASHRAE, IES, AND NEMA.

B. ALL WORKMEN SHALL BE SKILLED IN THEIR RESPECTIVE TRADE.

C. ALL WORK SHALL BE WARRANTED IN WRITING TO BE FREE FROM DEFECTS IN MATERIALS AND/OR WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER. WARRANTY SHALL INCLUDE ALL COSTS OF PARTS, LABOR, TRAVEL AND LIVING EXPENSES REQUIRED TO REPAIR OR REPLACE DEFECTIVE ITEMS.

D. COORDINATE WORK WITH WORK OF OTHER TRADES PRIOR TO INSTALLATION.

E. BE RESPONSIBLE, FOR THE PROPER COORDINATION OF THE ELECTRICAL WORK WITH THE INSTALLATIONS UNDER OTHER DIVISIONS, INCLUDING PROPER CLEARANCES. ANY CHANGES REQUIRED TO AVOID INTERFERENCES SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL AND SHALL BE MADE AS APPROVED, WITHOUT ADDITIONAL COST TO THE OWNER.

F. COORDINATE WORK WITH THAT OF ALL OTHER TRADES AFFECTING OR AFFECTED BY WORK OF THIS DIVISION. COOPERATE WITH SUCH TRADES TO ENSURE THE STEADY PROGRESS OF WORK UNDER THE CONTRACT.

G. COORDINATE WORK WITH THE GENERAL CONTRACTOR AND THE PROJECT SCHEDULE. PROVIDE MANPOWER AND MATERIALS AS REQUIRED TO MEET THE SCHEDULE AND NOT TO INTERFERE WITH OR IMPEDE THE PROGRESS OF OR INCREASE THE COST OF WORK BY OTHERS.

H. INSTALL MATERIALS AND APPARATUS AS FAST AS CONDITIONS OF THE BUILDING WILL PERMIT. MATERIALS AND APPARATUS MUST BE INSTALLED WHEN DIRECTED AND IN THE FASHION DETERMINED BY THE ARCHITECT. DRAWINGS FOR THE LOCATION OF TABLET OPENINGS AND AISLES FOR PASSAGE OF EQUIPMENT TO BE INSTALLED UNDER THIS SECTION, THE INSTALLER SHALL BE RESPONSIBLE FOR HAVING SUITABLE OPENINGS AND AISLES LEFT OPEN UNTIL EQUIPMENT HAS BEEN PROPERLY INSTALLED. PROVIDE SLEEVES, POCKETS, SUPPORTS AND INCIDENTALS.

I. PREPARE AND SUBMIT COLOR-CODED COORDINATION DRAWINGS IN CONJUNCTION WITH THE OTHER TRADES ON COMMON DRAWINGS, AS DIRECTED BY THE CONSTRUCTION SUPERINTENDENT. DISTRIBUTION SYSTEMS WHICH REQUIRE PITCH OR SLOPES SUCH AS PLUMBING DRAINS, STEAM AND CONDENSATE PIPING SHALL HAVE THE RIGHT OF WAY OVER THOSE WHICH DO NOT. INSTALL WORK TO AVOID INTERFERENCE AND TO ALLOW PROPER CLEARANCE AROUND ALL TRADES' WORK FOR ACCESS, MAINTENANCE AND AS REQUIRED BY CODE. PREPARE COORDINATION DRAWINGS IN THE FOLLOWING ORDER (SUBJECT TO ABOVE): HVAC, PLUMBING, FIRE PROTECTION, ELECTRICAL AND TELECOMMUNICATIONS SYSTEMS. WORK INSTALLED PRIOR TO COMPLETE AND APPROVED COORDINATION DRAWINGS MUST BE CORRECTED AS REQUIRED AT NO ADDITIONAL EXPENSE TO OWNER. WORK SHALL BE INSTALLED A MINIMUM OF 8 INCHES ABOVE CEILINGS TO ALLOW ROOM FOR LIGHT FIXTURES.

J. IN ALL SPACES, PRIOR TO INSTALLATION OF VISIBLE MATERIAL AND EQUIPMENT, INCLUDING ACCESS PANELS, REVIEW ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND WHERE NOT DEFINITELY INDICATED. REQUEST INFORMATION FROM ARCHITECT.

K. CHECK CONTRACT DRAWINGS AS WELL AS SHOP DRAWINGS OF ALL INSTALLERS TO VERIFY AND COORDINATE SPACE IN WHICH WORK OF THIS SECTION WILL BE INSTALLED.

L. OBTAIN FROM MANUFACTURERS THE PROPER METHOD OF INSTALLATION AND CONNECTION OF THE EQUIPMENT THAT IS TO BE FURNISHED, INSTALLED OR WIRED. OBTAIN ALL INFORMATION THAT IS NECESSARY TO FACILITATE THE WORK AND TO COMPLETE THE PROJECT.

OBSERVATION

A. THE INSTALLATION WILL BE OBSERVED FOR COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS. ANY PORTION OF THE CONSTRUCTION NOT MEETING THOSE REQUIREMENTS TO THE SATISFACTION OF THE ARCHITECT SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.

B. PROVIDE PROPER EQUIPMENT AND REASONABLE ASSISTANCE AS THE ARCHITECT MAY REQUIRE TO FACILITATE ACCESS AND OBSERVATION AT THE CONSTRUCTION SITE.

SUBMITTALS

A. SUBMIT THE FOLLOWING INFORMATION AS APPLICABLE AND AS REQUIRED FOR ALL WORK SPECIFIED:

- MANUFACTURER'S PRODUCT DATA SHEETS AND SAMPLES WHERE REQUIRED. SHOP DRAWINGS INCLUDING DIMENSIONED EQUIPMENT LAYOUTS, POINT-TO-POINT WIRING DIAGRAMS AND SEQUENCES OF OPERATION. TO CONFIRM ALL DIMENSIONS, QUANTITIES, AND COORDINATE MATERIALS AND PRODUCTS SUPPLIED BY OTHER TRADES.
- AS-BUILT DRAWINGS.
- OPERATION AND MAINTENANCE MANUALS, (THREE COPIES)
- CERTIFIED FACTORY AND FIELD TEST REPORTS.
- RECOMMENDED GENERAL CONTRACTORS AND SPECIAL REQUIREMENTS FOR REQUIREMENTS ALL OF WHICH SHALL BE INCLUDED AS PART OF THIS SPECIFICATION.
- SHOP DRAWINGS FOR EQUIPMENT SUBMITTED FOR REVIEW SHALL INCLUDE COMPLETE SPECIFICATIONS, INCLUDING TYPE OF MATERIALS, OPERATING PRESSURES AND TEMPERATURES, CAPACITIES, PERFORMANCE AND POWER REQUIREMENTS TO DETERMINE COMPLIANCE WITH CONTRACT DOCUMENTS. WIRING DIAGRAM SUBMITTED SHALL BE COMPLETE FOR ALL EQUIPMENT AND SHALL BE SPECIFIC AND APPLY ONLY TO THIS SPECIFIC PROJECT.

B. SUBMITTALS SHALL BE CLEARLY ANNOTATED TO DEMONSTRATE COMPLIANCE WITH CONTRACT REQUIREMENTS AND TO SPECIFICALLY IDENTIFY PRODUCTS BEING PROVIDED. IF NOT SPECIFICALLY INDICATED ARCHITECT RESERVES THE RIGHT TO IDENTIFY THE PRODUCTS TO BE PROVIDED. REFER TO OTHER SECTIONS FOR ADDITIONAL SUBMITTAL REQUIREMENTS.

C. SUBSTITUTIONS TO SPECIFIED ITEMS MUST COMPLY WITH ALL SPECIFICATION REQUIREMENTS AND WILL ONLY BE PERMITTED WHERE SUBMITTED AND APPROVED IN WRITING.

D. IT IS NOT TO BE ASSUMED THAT THE ARCHITECT HAS READ THE TEXT NOR REVIEWED THE TECHNICAL DATA OF AN ITEM OR ITS COMPONENTS EXCEPT WHERE DIFFERENCES BETWEEN THE SUBSTITUTED PRODUCT AND THE SPECIFIED MODEL HAVE BEEN SPECIFICALLY IDENTIFIED IN WRITING. REVIEW OF SHOP DRAWINGS CONTAINING ERRORS DOES NOT RELIEVE THE INSTALLER FROM MAKING CORRECTIONS AT INSTALLER'S EXPENSE.

E. SUBMITTALS WILL BE REVIEWED TO ENSURE INTEGRITY OF THE DESIGN. CHANGES, SUBSTITUTIONS, DELETIONS OR ANY OTHER DIFFERENCES BETWEEN THE SUBMISSION AND THE CONTRACT DOCUMENTS SHALL BE CLEARLY IDENTIFIED IN WRITING ON THE INSTALLER'S LETTERHEAD. REVIEW BY ENGINEER OR ARCHITECT DOES NOT CONSTITUTE ACCEPTANCE OF CHANGES OR VARIATIONS.

F. SHOP DRAWINGS AND MANUFACTURERS DATA SHALL BE SUBMITTED IN A TIMELY MANNER SUFFICIENTLY IN ADVANCE TO GIVE AMple TIME FOR CHECKING, CORRECTING, RESUBMITTING AND RECHECKING IF NECESSARY. NO CLAIM FOR DELAY WILL BE GRANTED FOR FAILURE TO COMPLY WITH THIS REQUIREMENT. SCHEDULE WORK AND SUBMITTALS TO ALLOW A MINIMUM OF 10 WORKING DAYS IN THE ARCHITECT'S OFFICE EXCLUSIVE OF DELIVERY TIMES.

DELIVERY, STORAGE & HANDLING

A. EQUIPMENT SHALL BE DELIVERED IN MANUFACTURER'S ORIGINAL PROTECTIVE PACKAGING AND STORED IN A CLEAN, DRY PLACE PROTECTED FROM WEATHER, FUMES, WATER, DUST AND PHYSICAL DAMAGE. TOUCH UP DAMAGED FINISHES TO MATCH THE ORIGINAL FINISH.

BASIC MATERIALS & METHODS

A. COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES PRIOR TO INSTALLATION. ASSIST IN THE PREPARATION OF COORDINATION DRAWINGS AS REQUIRED BY THE GENERAL CONDITIONS.

B. ALL SHUTDOWNS OF BUILDING POWER, SIGNAL ALARM SYSTEMS SHALL BE COORDINATED WITH BUILDING OPERATING PERSONNEL. WORK TO ACCOMMODATE OFF-HOUR SHUTDOWNS SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.

C. CUT AND PATCH SURFACES AS REQUIRED. REPAIRS SHALL MATCH ORIGINAL FINISH. PENETRATIONS OF FIRE RATED PARTITIONS SHALL BE SEALED WITH APPROVED MATERIAL TO PROVIDE THE SAME RATING AS THE PARTITION. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED PARTITIONS.

D. PROVIDE EXPANSION FITTINGS WHERE RACEWAYS CROSS BUILDING EXPANSION JOINTS AND AS REQUIRED BY CODE.

E. EQUIPMENT, DEVICES AND ENCLOSURES SHALL BE RATED NEMA 1 FOR INTERIOR LOCATIONS, NEMA 3R FOR DAMP LOCATIONS NEMA 4 FOR EXTERIOR LOCATIONS.

F. NO ELECTRICAL SERVICES OR RISERS ARE TO BE TAPPED WHILE ENERGIZED. ELECTRICAL POWER MUST BE SHUT OFF PRIOR TO PERFORMING ANY WORK IN RACEWAYS WITH LIVE ELECTRICAL CIRCUITS OR ANY OTHER LIVE CIRCUITS OR EQUIPMENT. ANY POWER INTERRUPTION SHALL BE COORDINATED WITH THE OWNER AND BUILDING OPERATING PERSONNEL.

AS BUILT DRAWINGS

A. WITHIN 15 DAYS OF THE COMPLETION OF THE PROJECT AND PRIOR TO REQUESTING FINAL PAYMENT, SUBMIT AS-BUILT DRAWINGS OF THE ACTUAL INSTALLATION OF THE ELECTRICAL WORK. FIVE (5) PAPER SETS OF DRAWINGS, SAME SCALE AS THE DESIGN SET UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS, AND FIVE (5) CD DISKS WITH AutoCAD 2000 OR LATER VERSIONS OF THE AS-BUILTS ARE REQUIRED FOR SUBMISSION TO THE ARCHITECT. ENGINEER. INSERT FOLDED DRAWINGS AND CAD DISKS INTO O & M MANUALS IN PLASTIC SLEEVES IN 3 RING BINDER.

PRODUCTS

A. RIGID GALVANIZED STEEL (RGS) CONDUIT FITTINGS SHALL BE THREADED.

B. INTERMEDIATE METALLIC CONDUIT (IMC) FITTINGS SHALL BE THREADED.

C. ELECTRICAL METALLIC TUBING (EMT) FITTINGS SHALL BE GLAND AND RING COMPRESSION TYPE.

D. ARMORED CABLE SHALL BE 90°C RATED CODE TYPE ACTH WITH A SEPARATE GREEN INSULATED GROUND CONDUCTOR IN ACCORDANCE WITH UL 4. JACKET SHALL BE GALVANIZED STEEL ARMOR TO MINIMIZE EMI.

E. ALL CONDUIT FITTINGS AND CONNECTORS SHALL BE STEEL WITH INSULATED THROATS. DIE-FORMED ZINC FITTINGS ARE NOT ACCEPTABLE. BUSHINGS SHALL BE PROVIDED AT ALL CONDUIT TERMINATIONS. BUSHINGS LARGER THAN 1" SHALL BE GROUNDING TYPE. PVC BUSHINGS MAY BE UTILIZED ONLY FOR 3/4" BRANCH CIRCUIT CONDUITS TERMINATING AT PANELBOARDS.

F. MINIMUM RACEWAY SIZE SHALL BE 3/4". RACEWAYS SHALL BE RUN PARALLEL TO BUILDING STRUCTURAL LINES. RACEWAYS SHALL NOT BE RUN HORIZONTALLY BELOW 8'-0" AFF IN PARTITIONS. ALL EMPTY RACEWAYS SHALL BE FURNISHED WITH A 200 LB. TEST NYLON DRAG LINE.

G. PROVIDE RACEWAYS AS FOLLOWS:

- RIGID GALVANIZED STEEL (RGS) - ALL EXTERIOR LOCATIONS, UNDERGROUND AND IN CONCRETE SLABS, AND AREA SUBJECT TO ABUSE. INTERMEDIATE METALLIC CONDUIT (IMC) MAY BE USED IN LIEU OF RGS WHERE PERMITTED BY THE AUTHORITY HAVING JURISDICTION.
- ELECTRICAL METALLIC TUBING (EMT) - INTERIOR CONCEALED AND EXPOSED LOCATIONS; INTERIOR COMMUNICATIONS WIRING.
- FLexible METALLIC CONDUIT - FINA CONNECTIONS TO LIGHTING FIXTURES IN INTERIOR LOCATIONS (MAX LENGTH 6'-0"); WHERE APPROVED.
- LIQUID TIGHT FLEXIBLE CONDUIT; JUNCTION CONNECTIONS TO SYSTEM FURNITURE, MOTORS, AND MACHINERY. EXTERIOR CONDUIT CONNECTIONS IN EXTERIOR LOCATIONS.
- METAL CLAD - MAY BE USED AS A WIRING METHOD FOR CONCEALED BRANCH CIRCUIT WIRING TO LIGHTING FIXTURES AND RECEPTACLES IN ACCORDANCE WITH CODES AND LOCAL AUTHORITIES. NOT TO BE USED FOR FEEDERS.
- FIRE ALARM - PROVIDE EMT CONDUIT WITH COUPLINGS AND BOXES PAINTED RED, RED FIRE ALARM MC CABLE IS ONLY ALLOWED SUBSTITUTE TO CONDUIT.

H. WIREWAYS AND AUXILIARY GUTTERS SHALL BE TWO PIECE STEEL CONSTRUCTION WITH ANSI 61 GRAY ENAMEL FINISH. COVERS SHALL BE COMBINATION HINGED AND SCREW-ON TYPE. WIREWAYS SHALL BE MANUFACTURED BY SQUARE D OR APPROVED EQUAL. PROVIDE ALL END PIECES, CONNECTORS AND REQUIRED ACCESSORIES. PROVIDE NEMA 4 RATING FOR EXTERIOR USE.

I. WHERE SIZES OF RACEWAYS OR BOXES ARE NOT INDICATED, SIZE THESE ITEMS AS REQUIRED BY CODE FOR THE INSTALLATION.

J. FOR WIRING IN PARTITIONS OR FURNITURE SYSTEMS, WHERE EMT IS IMPRACTICAL, GALVANIZED FLEXIBLE STEEL CONDUIT SHALL BE USED.

K. ALL CONDUIT AND TUBING SHALL BE CUT SQUARE AND REAMED AT THE ENDS. APPLY GALVANIZING COMPOUND TO ALL EXPOSED THREADS AS A FINAL PROCEDURE AFTER JOINTS HAVE BEEN MADE UP CLEAN AND TIGHT.

L. CONDUIT AND TUBING RUNS SHALL BE MECHANICALLY AND ELECTRICALLY CONTINUOUS FROM SERVICE STARTING TO ALL OUTLETS AND EQUIPMENT. CONDUIT SHALL ENTER AND BE SECURELY CONNECTED TO CANISTER, PULL BOX OR OUTLET BY MEANS OF COUPLINGS OR CONDUIT CONNECTORS ON THE OUTSIDE OF THE CANISTER AND AN INSULATED BUSHING ON THE INSIDE. INTEGRATING OF EXFLEXIBLE METAL CONDUIT THE ONE COMPRESSION LOCKNUT SHALL BE MADE WRENCH-TIGHT. ALL LOCKNUTS SHALL BE THE BONDING TYPE WITH SHARP EDGES FOR DIGGING INTO THE METAL WALL OF AN ENCLOSURE AND SHALL BE INSTALLED IN A MANNER THAT WILL ASSURE A LOCKING AND ELECTRICALLY CONTINUOUS INSTALLATION. LOCKNUTS AND BUSHINGS ARE NOT REQUIRED WHERE CONDUITS ARE SCREWED INTO TAPPED CONNECTIONS.

M. ALL VERTICAL RUNS OF CONDUIT OR TUBING TERMINATING IN THE BOTTOMS OF WALL BOXES OR CABINETS, OR SIMILAR LOCATIONS, SHALL BE PROTECTED FROM THE ENTRANCE OF FOREIGN MATERIALS PRIOR TO THE INSTALLATION OF CONDUCTS.

N. UNLESS OTHERWISE SPECIFIED, ALL CONDUIT AND TUBING SHALL BE INSTALLED CONCEALED. IN GENERAL, ALL CONDUIT AND TUBING SHALL BE RUN HUNG IN CEILINGS AND FURRED SPACES WHERE THEY EXIST. WHERE CONDUIT IS RUN EXPOSED IT SHALL BE SECURELY SUPPORTED WITH ZINC COATED MALLEABLE IRON PIPE STRAPS OR OTHER APPROVED MEANS. ALL CONDUITS SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS.

O. EVERY CONDUIT SYSTEM SHALL BE INSTALLED COMPLETE BEFORE ANY CONDUCTORS ARE DRAWN IN. WIRE PULLING LUBRICANTS, WHEN UTILIZED, SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF UNDERWRITERS' LABORATORIES, INC., APPLICABLE TO THE SPECIFIC CONDUCTOR OR CABLE INSULATION AND RACEWAY MATERIAL.

BOXES

A. PROVIDE OUTLET, JUNCTION AND PULL BOXES AS SPECIFIED HEREIN AND WHERE INDICATED ON THE CONTRACT DRAWINGS AND AT ALL OTHER LOCATIONS WHERE THEY ARE REQUIRED TO FACILITATE THE PULLING, SUPPORTING OR CONNECTION OF WIRES AND CABLES.

B. OUTLET, PULL AND JUNCTION BOXES SHALL BE FABRICATED FROM STEEL AND CONFORM TO UL 50, UL514 AND NEMA GS1. BOXES FOR INTERIOR LOCATIONS SHALL BE CODE GAUGE, GALVANIZED SHEET STEEL. BOXES FOR MECHANICAL ROOMS BE CAST STEEL WITH GASKETED COVERS.

C. BOXES SHALL CONTAIN SUITABLE KNOCKOUTS. BARRIERS SHALL BE FURNISHED AS REQUIRED BY CODE.

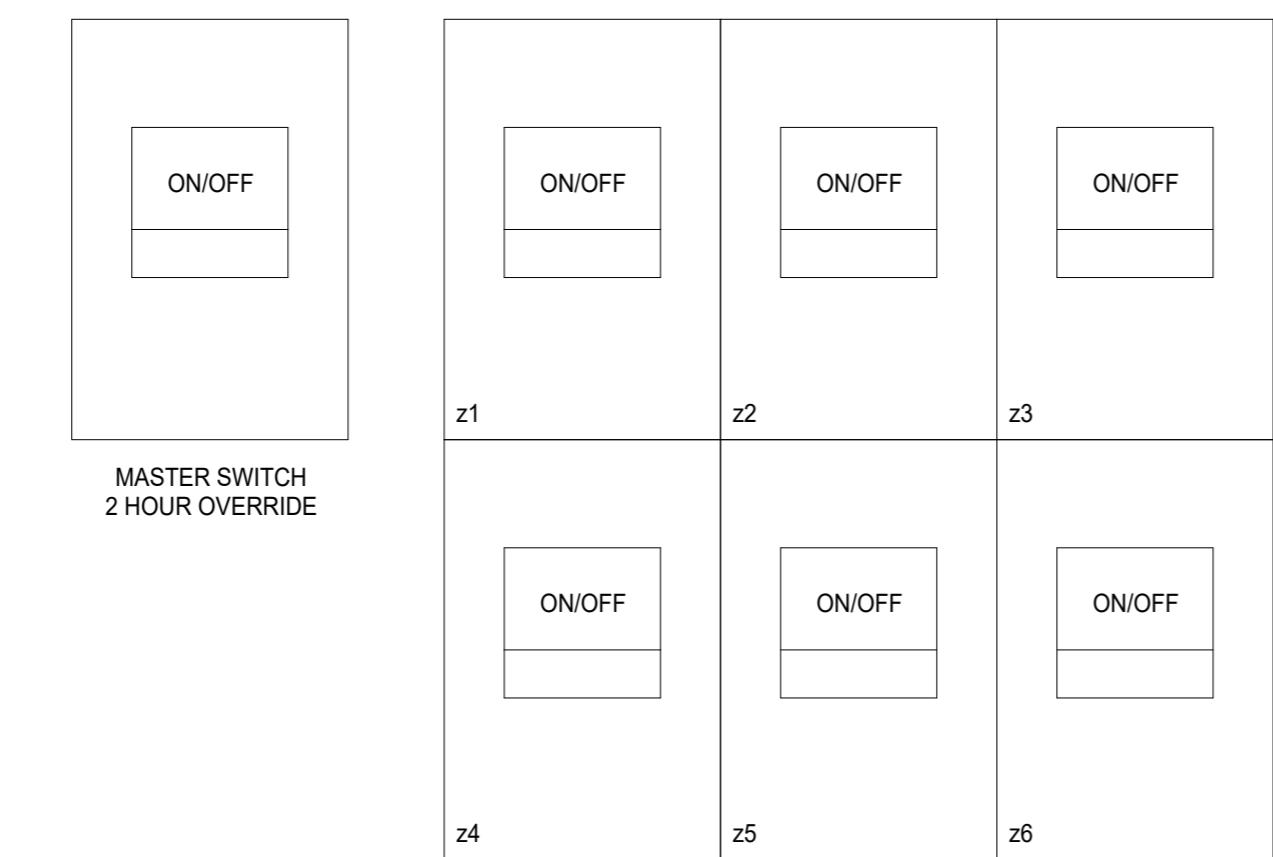
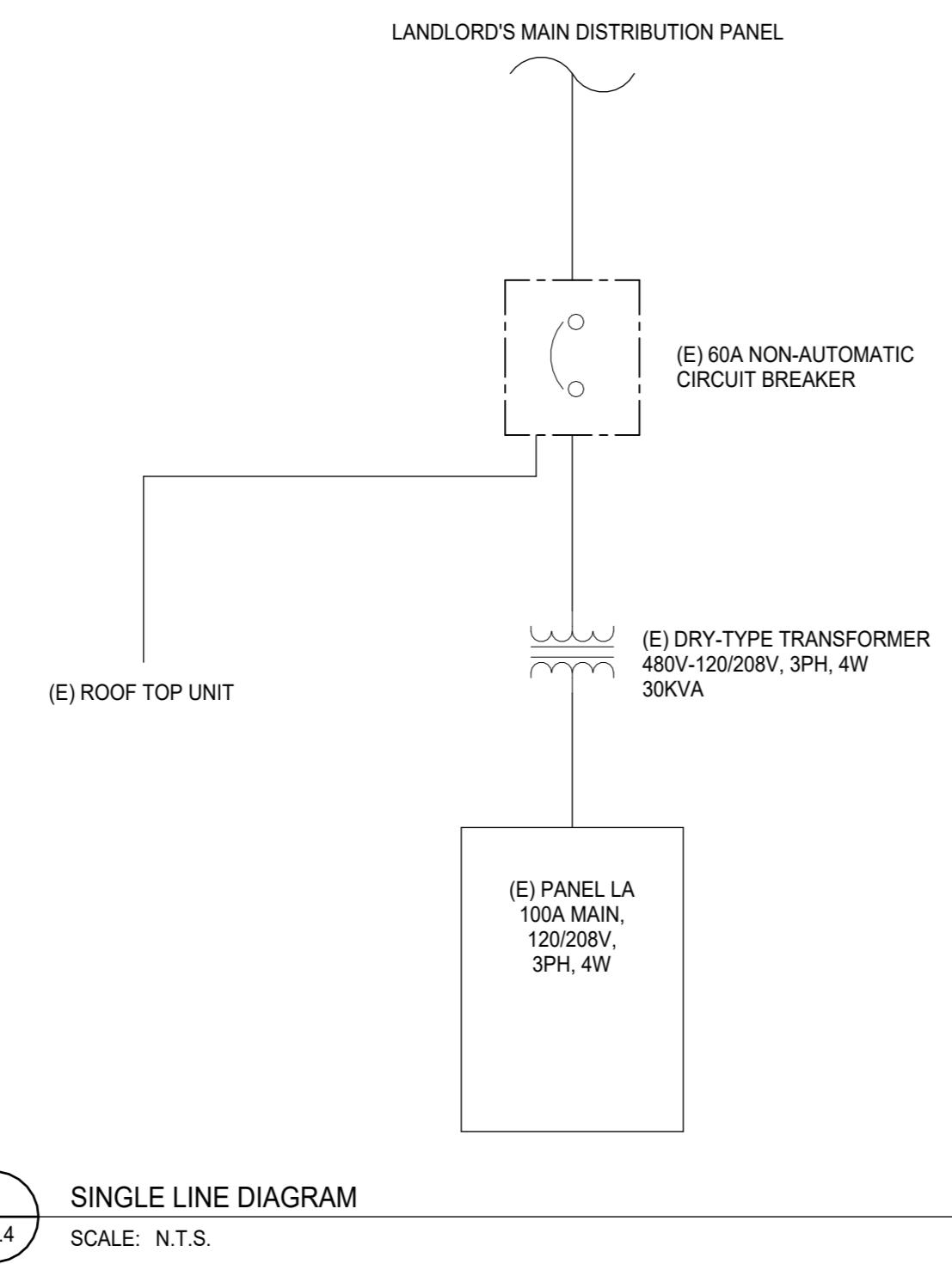
D. BOXES SHALL BE SIZED AS REQUIRED BY CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN. EXCEPT WHERE NOTED TO BE LARGER, THE MINIMUM BOX SIZE SHALL BE 4" SQUARE AND BE 1-1/2" DEEP. COVERS GREATER THAN 50 LBS. SHALL BE DIVIDED INTO MULTIPLE SECTIONS.

FASTENERS

A. PROVIDE INSERTS, EXPANSION SHIELD LUGS, ANCHORS, BOLTS WITH NUTS AND WASHERS, SHIMS OR ANY

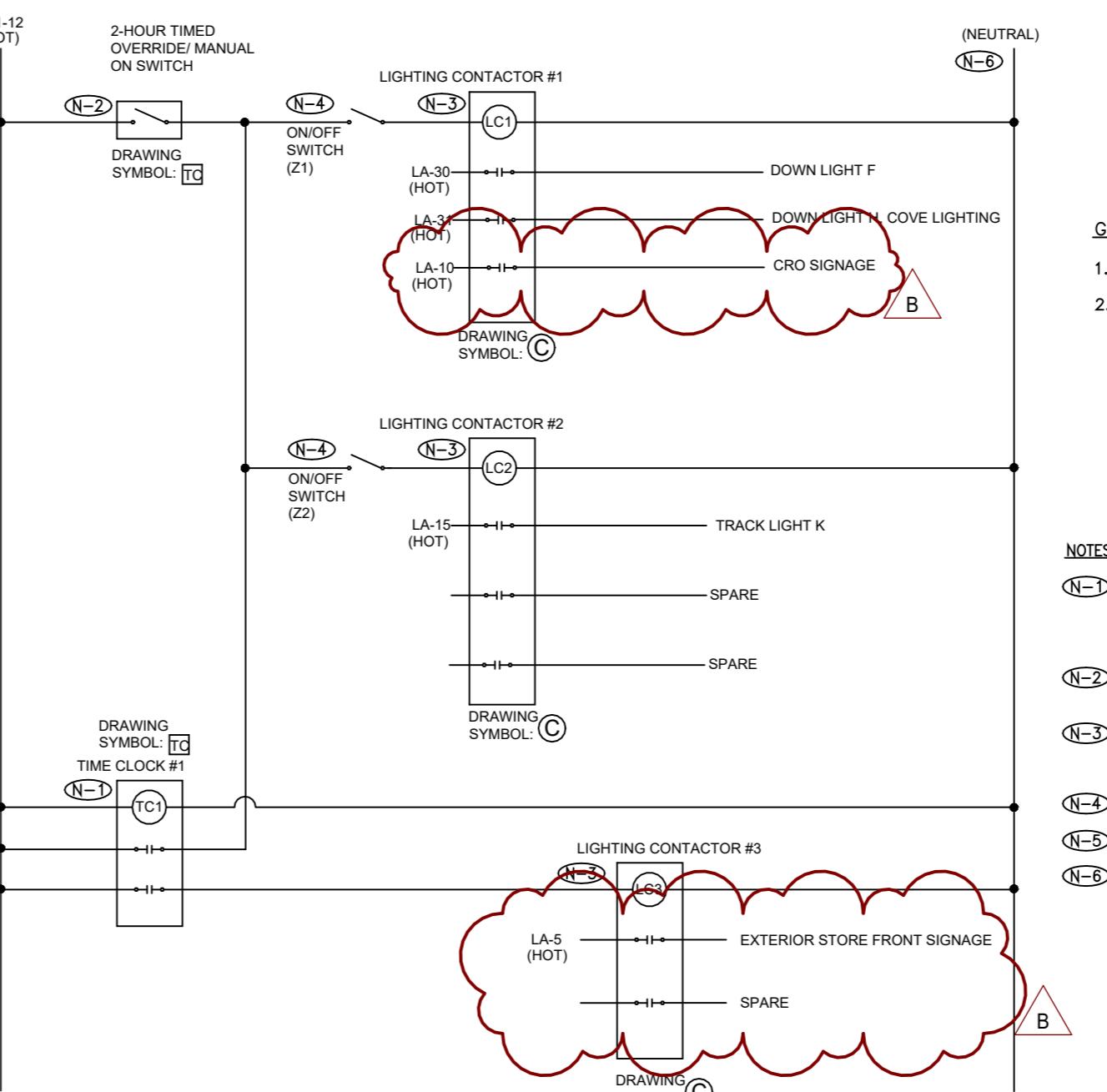
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<p>PANELBOARDS</p> <p>A. PANELBOARDS SHALL BE DEADFRONT WITH RATINGS INDICATED WITH FULL OR 200% SIZE NEUTRAL BUS BARS AS INDICATED, SEPARATE GROUND BUSES BONDED TO PANEL ENCLOSURE. ALL BUSES SHALL BE COPPER, PROVIDE ADDITIONAL GROUND BUSES ELECTRICALLY ISOLATED FROM THE PANEL ENCLOSURE WHERE INDICATED ON THE PANELBOARD SCHEDULES. WHERE FEEDER NEUTRAL IS OVERRATED, NEUTRAL BUS AMPACITY SHALL BE INCREASED ACCORDINGLY. CABLE LUGS SHALL BE MECHANICAL TYPE. FEED-THROUGH LUGS AND CABLE CONNECTIONS SHALL BE PROVIDED FOR MULTIPLE SECTION PANELS. PROVIDE ONE NEUTRAL TERMINATION LUG FOR EACH NEUTRAL CONDUCTOR MINIMUM OF ONE PER POLE ON APPLIANCE PANELBOARDS.</p> <p>B. PANELBOARD ENCLOSURES SHALL BE GALVANIZED CODE GAUGE STEEL. TRIMS SHALL BE SURFACE TYPE IN UNFINISHED SPACES AND FLUSH TYPE IN FINISHED SPACES, WITH DOOR-INDOOR CONSTRUCTION AND ANSI 61 GRAY ENAMEL FINISH. DOORS SHALL BE LOCKABLE AND ALL LOCKS SHALL BE KEYED ALIKE. FURNISH TWO KEYS FOR EACH PANEL. FINISH TYPEWRITTEN DIRECTORIES MOUNTED BEHIND FRAME INSIDE DOOR UNDER A PLASTIC WINDOW. ENGRAVED NAMEPLATES SHALL BE FURNISHED FOR EACH PANELBOARD.</p> <p>C. PANEL ENCLOSURES SHALL BE SUFFICIENT SIZE TO ALLOW A GUTTER AT LEAST 5-3/4" IN WIDTH ENTIRELY SURROUNDING EACH SECTION OF BOARD. INCREASE SIZE TO ACCOMMODATE FEEDER SIZE.</p> <p>D. CIRCUIT BREAKERS SHALL BE MOLDED CASE, BOLTED-IN PLACE WITH THERMAL-MAGNETIC TRIP ELEMENT. CIRCUIT BREAKERS FOR UNSWITCHED LIGHTING CIRCUITS SHALL BE RATED FOR SWITCHING DUTY. CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE HACR RATED. MAIN CIRCUIT BREAKERS SHALL BE MOUNTED SEPARATELY FROM BRANCH BREAKERS AT TOP OR BOTTOM.</p> <p>E. UNLESS OTHERWISE NOTED PANELBOARD SHORT CIRCUIT RATING SHALL CONFORM TO U.L. STANDARDS FOR FULLY RATED SYSTEMS ONLY (SERIES RATED PANELS WILL NOT BE ACCEPTABLE UNLESS SPECIFICALLY INDICATED). INTERRUPTING RATINGS SHALL BE AS INDICATED ON DRAWINGS OR SPECIFICATIONS, OR AT A MINIMUM MATCH OR EXCEEDING EXISTING BUILDING SYSTEM RATING.</p> <p>F. PANELBOARDS SHALL BE MOUNTED ON MODULAR CHANNEL SUPPORTS SECURED TO THE BUILDING STRUCTURE OR MAY BE DIRECTLY SUPPORTED FROM MASONRY WALLS. COORDINATE THE DIRECTION OF FEEDER ENTRIES TO PANELBOARDS WITH FIELD CONDITIONS. ALL FLUSH MOUNTED PANELBOARDS SHALL BE PROVIDED WITH (3) 1" EMPTY CONDUITS TERMINATED 6" ABOVE THE FINISHED CEILING.</p> <p>G. ALL PANELBOARDS SHALL BE PHASE BALANCED TO WITHIN $\pm 10\%$ OF THE AVERAGE AMPS PER PHASE UPON COMPLETION OF WORK.</p> <p>H. ENCLOSURES FOR TERMINAL CABINETS SHALL BE THE SAME AS SPECIFIED FOR PANELBOARD ENCLOSURES.</p> <p>I. PANELBOARD MAIN OCPD LENGTH SHALL NOT EXCEED 6'-0".</p> <p>CIRCUIT BREAKERS</p> <p>A. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE.</p> <p>B. CIRCUIT BREAKERS SHALL BE MOLDED CASE, BOLT-IN-PLACE WITH THERMAL MAGNETIC TRIP ELEMENT. MINIMUM INTERRUPTING RATINGS SHALL BE 10,000 AIC AT 208/120V AND 14,000 AIC AT 480/277V, UNLESS OTHERWISE NOTED.</p> <p>C. CIRCUIT BREAKERS SHALL BE OF THE "THERMAL-MAGNETIC" TYPE HAVING BIMETALLIC ELEMENT FOR TIME DELAY OVERLOAD PROTECTION AND MAGNETIC ELEMENT FOR SHORT CIRCUIT PROTECTION.</p> <p>TRANSFORMERS</p> <p>A. STEP-DOWN TRANSFORMERS SHALL BE TOTALLY ENCLOSED, VENTILATED DRY TYPE WITH 480 VOLT DELTA PRIMARY, 208/120 VOLT WYE CONFIGURED THREE PHASE, FOUR WIRE SECONDARY AND FULL LOAD RATING OR AS INDICATED ON THE CONTRACT DRAWINGS.</p> <p>B. TRANSFORMERS SHALL BE PROVIDED WITH COPPER WINDINGS AND SHALL BE RATED FOR 115 DEGREE C RISE.</p> <p>C. TRANSFORMERS SHALL BE FURNISHED WITH TWO (2) 2-1/2% TAPS ABOVE AND FOUR (4) 2-1/2% TAPS BELOW RATED VOLTAGE.</p> <p>D. FLOOR MOUNTED TRANSFORMERS SHALL BE PROVIDED WITH 4" HIGH CONCRETE HOUSE KEEPING PADS. ALL TRANSFORMERS SHALL BE FURNISHED WITH VIBRATION ISOLATING SUPPORTS.</p> <p>E. TRANSFORMER AND SECONDARY GROUNDS SHALL COMPLY WITH REQUIREMENTS FOR SEPARATELY DERIVED SYSTEM GROUNDS PER CODE.</p> <p>F. PROVIDE NEMA TPI ENERGY STAR RATED DRY TYPE TRANSFORMERS. IF MANUFACTURED FOR TYPE OF TRANSFORMER SPECIFIED.</p> <p>G. PROVIDE K13 RATED TRANSFORMERS WHERE INDICATED, SUITABLE FOR NON-LINEAR LOADS.</p> <p>H. MOUNT TRANSFORMERS ON DNP NEOPRENE PADS (EQUAL TO MASON INDUSTRIES TYPE WSW, KORFORD DYNAMICS TYPE KOPOD OR AMBER/BOOTH TYPE NR) TO MINIMIZE VIBRATION AND NOISE TRANSMISSION.</p> <p>I. PROVIDE FLEXIBLE METAL CONDUIT CONNECTIONS INSTALLED SLACK TO MINIMIZE VIBRATION TRANSMISSION.</p> <p>J. SET TAPS ON TRANSFORMER FOR A NO-LOAD OUTPUT OF 125 VOLTS ON A 120/208 VOLT SECONDARY.</p> <p>MAGNETIC STARTERS</p> <p>A. STARTER UNITS FOR THREE PHASE MOTORS SHALL BE OF THE COMBINATION TYPE, NEMA RATED, CONSISTING OF MAGNETIC STARTER CONTAINING THREE INTERNAL MANUAL RESET THERMAL BIMETALLIC OVERLOAD ELEMENTS ADJUSTED TO THE MOTOR MANUFACTURER'S RECOMMENDATIONS AND LOW VOLTAGE PROTECTION. EACH STARTER UNIT SHALL INCLUDE A FUSED OR NON-FUSED SWITCH DISCONNECT AS INDICATED, UL LISTED WITH DEAD FRONT OPERATION AND PROVISIONS FOR LOCKING SWITCH HANDLE IN THE "OPEN" POSITION. SWITCH MECHANISM SHALL BE QUICK-MAKE, QUICK-BREAK WITH INTERRUPTING RATING OF TWELVE TIMES THE CONTINUOUS CURRENT RATING. EACH STARTER CONTACTOR SHALL BE COMPLETE WITH A MINIMUM OF TWO NORMALLY OPEN INTERLOCK CONTACTS OF WHICH AT LEAST TWO SHALL BE ISOLATED. STARTERS SHALL BE MANUFACTURED BY ALLEN BRADLEY, FURNAS, GENERAL ELECTRIC, SIEMENS, SQUARE D OR CUTLER-HAMMER.</p> <p>B. STARTERS SHALL BE EQUIPPED WITH INDIVIDUAL 150VA MINIMUM, 480/120 OR 208/120 VOLT CONTROL POWER TRANSFORMER WITH TWO PRIMARY AND ONE SECONDARY CONTROL FUSE. THE OTHER SECONDARY LEAD SHALL BE GROUNDED. PRIMARY FUSES SHALL BE CONNECTED BETWEEN LOAD SIDE OF MOTOR CIRCUIT FUSES AND THE STARTER.</p> <p>C. ALL STARTERS SHALL HAVE "HAND-OFF-AUTO" SELECTOR SWITCHES AND INDICATING LIGHT MOUNTED ON THE STARTER. CONTROL UNITS SHALL BE OF THE HEAVY DUTY, OIL TIGHT TYPE. "HAND" POSITION SHALL NOT OVERRIDE SAFETY SHUTDOWN DEVICES.</p> <p>D. STARTERS SHALL BE FOR FULL VOLTAGE SINGLE WINDING MOTORS UNLESS OTHERWISE INDICATED.</p> <p>E. ALL MAGNETIC STARTERS SHALL BE ELECTRICALLY OPERATED, ELECTRICALLY HELD, THREE-POLE ASSEMBLIES WITH ARC EXTINGUISHING CHARACTERISTICS AND SHALL HAVE SILVER TO SILVER RENEWABLE CONTACTS.</p> <p>F. EACH STARTER SHALL BE PROVIDED WITH A RED GLASS JEWEL INDICATING LIGHT WHICH SHALL BE VISIBLE THROUGH THE DOOR TO SHOW THE 'RUNNING' POSITION OF THE STARTER. INDICATING LIGHTS SHALL BE 'PUSH-TO-TEST' WITH SIX VOLT LAMPS AND INTEGRAL 120-6 VOLT TRANSFORMERS.</p> <p>G. ENCLOSURES SHALL BE NEMA 1 FOR DRY INDOOR LOCATIONS AND NEMA 3R FOR DAMP LOCATIONS. EXTERIOR LOCATIONS AND WHERE INDICATED ON THE DRAWINGS.</p> <p>H. PROVIDE 3/4 INCH THICK EXTERIOR GRADE PLYWOOD BACKBOARDS FOR MOUNTING STARTERS AND PANELS.</p> <p>EXECUTION</p> <p>A. PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION.</p> <p>B. DO NOT DO ANY CUTTING THAT MAY IMPAIR THE STRENGTH OF BUILDING CONSTRUCTION. NO HOLES SHALL BE DRILLED INTO ANY STRUCTURAL MEMBERS. CLAMPS OR OTHER APPROVED HOLDING DEVICES ARE TO BE USED.</p> <p>C. ALL CUTTING OF FLOORS, CEILINGS AND WALLS SHALL BE PERFORMED IN A MANNER SO AS TO MINIMIZE DAMAGE TO ADJACENT MATERIALS. PATCHING OF ALL SURFACES SHALL BE PERFORMED BY SKILLED WORKERS IN A MANNER APPROVED BY THE ARCHITECT TO INSURE COMPLETE MATCHING WITH ADJACENT FINISHES AFTER FINAL TREATMENT OF SURFACES.</p> <p>SEALING OF PENETRATIONS</p> <p>A. ALL PENETRATIONS OF WALLS, FLOORS OR CEILINGS MUST BE SEALED IN AN APPROVED MANNER, CODE COMPLIANT USING AN OUTER CIRCUMFERENTIAL SLEEVE FILLED INSIDE AND OUT.</p> <p>B. ALL PENETRATIONS OF FIRE RATED WALLS, FLOORS AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO PROVIDE SAME RATINGS AS FLOOR, WALL OR CEILING ASSEMBLY. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED PARTITIONS.</p> <p>C. PENETRATIONS THROUGH FIRE-RESISTANT-RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRESTOPPED USING APPROVED METHODS AND NRTL-LISTED PRODUCTS TO MAINTAIN THE FIRE RESISTANCE RATING.</p> <p>D. FIRE STOPPING IN SLEEVES OR IN AREAS THAT MAY REQUIRE THE ADDITION OR MODIFICATION OF INSTALLED CABLES OR RACEWAYS SHALL BE SOFT, PLIABLE, NON-HARDENING FIRE-STOP PUTTY. PUTTY SHALL BE WATER RESISTANT AND INTUMESCENT.</p> <p>E. FIRE STOPPING IN LOCATIONS NOT LIKELY TO REQUIRE MODIFICATIONS SHALL BE A NRTL-LISTED PUTTY, CAULK OR MORTAR TO MEET THE REQUIRED FIRE RESISTANCE RATING.</p> <p>F. INSTALLATION METHODS SHALL CONFORM TO A UL FIRE STOPPING SYSTEM.</p> <p>G. ENVIRONMENTAL SEALS SHALL BE PROVIDED TO SEAL PENETRATIONS WITH DIFFERENT ENVIRONMENTAL CONDITIONS ON EACH SIDE (E.G. INTERIOR/EXTERIOR, CONDITIONED/NON-CONDITIONED, REFRIGERATED/NON-REFRIGERATED, ETC.)</p> <p>H. PROVIDE ACOUSTICAL SEALING FOR FULL HEIGHT NON RATED WALLS.</p> <p>GROUNDING</p> <p>A. METAL RACEWAYS, METAL ENCLOSURES OF ELECTRICAL DEVICES AND OTHER EQUIPMENT SHALL BE COMPLETELY GROUNDED IN AN APPROVED MANNER. PROPER HARDWARE REQUIRED FOR A COMPLETE GROUNDED SYSTEM SHALL BE INSTALLED.</p> <p>B. CONDUIT INSTALLATION SHALL PROVIDE GROUNDED CONTINUITY. PROVIDE SEPARATE GROUND CONDUCTORS IN ALL FEEDERS AND BRANCH CIRCUITS.</p> <p>SPlices AND TERMINATIONS</p> <p>A. NO SPLICES OR JOINTS WILL BE PERMITTED IN EITHER FEEDER OR BRANCHES EXCEPT AT OUTLETS OR ACCESSIBLE TERMINAL, SPLICE OR JUNCTION BOXES.</p> <p>B. ALL MATERIALS REQUIRED FOR MAKING SPLICES AND/OR TERMINATIONS SHALL BE SUPPLIED IN COMPLETE KITS NOT OLDER THAN 6 MONTHS. ENSURE THAT ALL MATERIALS FURNISHED WILL NOT ADVERSELY AFFECT THE PHYSICAL OR ELECTRICAL PROPERTIES OF OTHER MATERIALS FURNISHED OR OF THE WIRE OR CABLE ITSELF.</p> <p>C. WHERE CONNECTING TO EXISTING WIRES, OPEN AND DISCONNECT THE EXISTING SPLICES FROM SUCH WIRES AND INSTALL NEW SPLICES TO INCLUDE THE EXISTING WIRES AS REQUIRED.</p> <p>D. ALL SPLICES FOR WIRE SIZES #10 AWG AND SMALLER SHALL BE MADE WITH INSULATED SPRING CONNECTOR APPLIED TO TWISTED CONDUCTORS. TWO HALF LAPPED LAYERS OF VINYL TAPE EXTENDING A DISTANCE OF NOT LESS THAN ONE INCH FROM THE CONNECTOR SHALL BE APPLIED. SPLICES OTHER THAN THE AFOREMENTIONED WILL BE PERMITTED AT THE DISCRETION OF THE ARCHITECT.</p> <p>E. ALL SPLICES FOR WIRE SIZES #8 AND LARGER SHALL BE MADE WITH COMPRESSION TYPE CONNECTORS WITH PRE-MOLDED COVER OVER WHICH TWO HALF LAPPED LAYERS OF VINYL TAPE EXTENDING A DISTANCE OF NOT LESS THAN ONE INCH FROM THE CONNECTOR SHALL BE APPLIED.</p> <p>EMPTY RACEWAY SYSTEMS</p> <p>A. PROVIDE ALL CONDUIT, BOXES AND OUTLETS AS INDICATED FOR A COMPLETE RACEWAY SYSTEM. INSTALL A PULL STRING IN ALL RACEWAYS.</p> <p>B. INSTALLER SHALL CONSULT WITH REPRESENTATIVES OF THE SYSTEMS INSTALLERS AND SHALL CONFORM TO THEIR REQUIREMENTS.</p> <p>C. MINIMUM SIZE CONDUIT IS 3/4".</p> <p>IDENTIFICATION OF WIRES AND DEVICES</p> <p>A. ALL WIRES SHALL BE IDENTIFIED BY PANEL AND CIRCUIT NUMBER AT ALL TERMINATION AND SPLICE POINTS BY THE USE OF BRADY B-500 VINYL CLOTH TAPE OR EQUIVALENT METHOD.</p> <p>B. ALL JUNCTION BOXES SHALL BE IDENTIFIED WITH PANEL AND CIRCUIT NUMBERS OF ALL CIRCUITS OR NAME OF COMMUNICATIONS SYSTEM CABLING CONTAINED WITHIN. JUNCTION BOXES IN EXPOSED LOCATIONS SHALL BE CLEARLY MARKED WITH LABELS. JUNCTION BOXES IN CONCEALED LOCATIONS SHALL BE MARKED WITH A BOLD INDELIBLE MARKING PEN. LETTERING SHALL BE NEATLY AND LEGIBLY PRINTED. JUNCTION BOXES ON EMERGENCY SERVICE SHALL BE PAINTED RED AND LABELED AS EMERGENCY.</p> <p>C. PANELBOARDS, DISCONNECT SWITCHES, STARTERS, CONTROL STATIONS AND EQUIPMENT ENCLOSURES SHALL BE IDENTIFIED WITH ENGRAVED BLACK AND WHITE PLASTIC NAMEPLATES INDICATING EQUIPMENT SERVED, VOLTAGE AND AMPERE RATING AND INCOMING FEEDER DESIGNATION. NAMEPLATES SHALL BE FASTENED WITH TWO COUNTER SUNK OVAL HEAD SCREWS.</p> <p>D. CONDUIT RUNS FOR BRANCH CIRCUITING AND/OR COMMUNICATIONS CABLING SHALL BE IDENTIFIED AT EVERY 50 FEET OF LENGTH WITH CIRCUIT NUMBER OR SYSTEM NAME.</p> <p>E. IG AND EMERGENCY RECEPTACLES SHALL BE CLEARLY MARKED WITH LABEL IDENTIFYING CIRCUIT NUMBER AND PANEL.</p> <p>SIGNAGE - WARNING LABELS</p> <p>A. PROVIDE SIGNAGE AND WARNING LABELS AS REQUIRED BY THE ELECTRICAL CODES, OSHA, AND LOCAL AUTHORITIES.</p> <p>B. PROVIDE ARC FLASH WARNING SIGNAGE AS REQUIRED PER NEC SECTION 110.16 AT SWITCHBOARDS, PANELBOARDS, CONTROL PANELS, MOTOR CONTROL CENTERS, METER SOCKET ENCLOSURES, AND AS REQUIRED BY CODE OR LOCAL AUTHORITY.</p> <p>C. ALL FLASH WARNING SIGNS SHALL MEET THE REQUIREMENTS OF ANSI Z535.4 - PRODUCT SAFETY SIGNS AND LABELS. SIGNS SHALL INDICATE:</p> <p>"DANGER- POTENTIAL ARC FLASH HAZARD- PERSONNEL PROTECTIVE EQUIPMENT AND CLOTHING REQUIRED."</p> <p>REMOVALS</p> <p>A. REMOVE ALL DEVICES, EQUIPMENT AND CONDUIT NO LONGER REQUIRED IN THEIR ENTIRETY.</p> <p>B. ALL EXISTING EQUIPMENT REMOVED UNDER THIS CONTRACT SHALL BE RETURNED TO THE BUILDING MANAGER, UNLESS OTHERWISE NOTED.</p> <p>C. WHERE ALL DEVICES CONNECTED TO ANY OVERCURRENT DEVICE ARE REMOVED, DISCONNECT AND REMOVE ASSOCIATED WIRING FROM THE OVERCURRENT DEVICE AND REVISE PANELBOARD DIRECTORY TO INDICATE "SPARE" CIRCUIT.</p> <p>D. DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES, SWITCHES, OUTLETS, DEVICES AND EQUIPMENT ALONG WITH ASSOCIATED WIRING, CONDUITS, RACEWAYS, BOXES AND SUPPORTS, ETC. IN AREA OF WORK AND WHERE IN CONFLICT WITH NEW CONSTRUCTION.</p> <p>E. REMOVE ALL LOW VOLTAGE WIRING THAT IS ABANDONED OR UNUSED AND NOT TERMINATED AS REQUIRED BY THE ELECTRICAL CODE.</p> <p>CHANGES DURING CONSTRUCTION</p> <p>A. THE RIGHT IS RESERVED TO MAKE REASONABLE CHANGES (UP TO TEN FEET) IN LOCATIONS OF EQUIPMENT AND DEVICES PRIOR TO INSTALLATION WITHOUT AN INCREASE IN CONTRACT COST.</p> <p>FINAL CLEANUP & FIELD TESTS</p> <p>A. AFTER COMPLETION OF THE ENTIRE ELECTRICAL INSTALLATION:</p> <ol style="list-style-type: none"> PRIOR TO FINAL ACCEPTANCE, CLEAN ALL SWITCHES, CABINETS, DEVICE PLATES, FIXTURES AND OTHER ITEMS FURNISHED UNDER THIS CONTRACT AND ENSURE THAT ALL PANELBOARD DIRECTORIES ARE IN PLACE AND COMPLETED OR REVISED AS REQUIRED BY THE WORK, AND THAT ALL IDENTIFICATION AND MARKING OF EQUIPMENT, CABLES, ALL JUNCTION BOXES AND OTHER ITEMS IS COMPLETED. REPAIR OR REPLACE, AS DIRECTED BY THE ARCHITECT, ANY ITEM DAMAGED DUE TO INSTALLATION OR RELOCATION OF EQUIPMENT OR DEVICES, AT NO ADDITIONAL COST TO THE OWNER (NOISY TRANSFORMERS, LIGHTING BALLAST AND FLICKERING LIGHTS). <p>EXECUTION</p> <p>A. PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION.</p> <p>B. DO NOT DO ANY CUTTING THAT MAY IMPAIR THE STRENGTH OF BUILDING CONSTRUCTION. NO HOLES SHALL BE DRILLED INTO ANY STRUCTURAL MEMBERS. CLAMPS OR OTHER APPROVED HOLDING DEVICES ARE TO BE USED.</p> <p>C. ALL CUTTING OF FLOORS, CEILINGS AND WALLS SHALL BE PERFORMED IN A MANNER SO AS TO MINIMIZE DAMAGE TO ADJACENT MATERIALS. PATCHING OF ALL SURFACES SHALL BE PERFORMED BY SKILLED WORKERS IN A MANNER APPROVED BY THE ARCHITECT TO INSURE COMPLETE MATCHING WITH ADJACENT FINISHES AFTER FINAL TREATMENT OF SURFACES.</p> <p>SEALING OF PENETRATIONS</p> <p>A. ALL PENETRATIONS OF WALLS, FLOORS OR CEILINGS MUST BE SEALED IN AN APPROVED MANNER, CODE COMPLIANT USING AN OUTER CIRCUMFERENTIAL SLEEVE FILLED INSIDE AND OUT.</p> <p>B. DEMONSTRATE THE PROPER FUNCTION OF THE ENTIRE ELECTRICAL INSTALLATION. THE ARCHITECT SHALL BE GIVEN A MINIMUM OF 48 HOURS ADVANCE NOTICE OF ALL TESTS. REQUIRED FIELD TESTS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:</p> <ol style="list-style-type: none"> OPERATION OF ALL ELECTRICAL EQUIPMENT FOR A PERIOD OF 24 HOURS WITHOUT INTERRUPTION. 1,000 VOLTS MEGOHMMETER TEST OF ALL WIRES AND CABLES FURNISHED. FURNISH A TEST REPORT TO THE ARCHITECT INDICATING TEST METHOD USED AND RESULTS. ALL DEFECTIVE FIXTURES, CABLES OR OTHER EQUIPMENT ENCOUNTERED DURING THE COURSE OF TESTING SHALL BE PROMPTLY REPLACED AND RETESTED TO THE SATISFACTION OF THE ARCHITECT. <p>STARTUP, TESTING AND ADJUSTMENT</p> <p>A. PROVIDE THE SERVICES OF MANUFACTURER'S FACTORY TRAINED TECHNICIANS FOR SYSTEM STARTUP, TESTING AND ADJUSTMENT.</p> <p>B. THE FOLLOWING TESTS AND ADJUSTMENTS SHALL BE PERFORMED ON EQUIPMENT FURNISHED BY THIS CONTRACTOR AND OTHERS:</p> <ol style="list-style-type: none"> WIRING SYSTEMS - CONTINUITY, PHASE ROTATION, PHASE BALANCING AND INSULATION RESISTANCE (MEGGER). GROUNDING SYSTEMS - CONTINUITY AND RESISTANCE TO GROUND (25 OR LESS). MOTORS - RUNNING CURRENT AND OVERLOAD ADJUSTMENT POWER DISTRIBUTION BREAKERS, METERS, ALONG WITH LOAD BALANCING. BUS CONNECTIONS - THERMOMATIC SCANNING. ALTERNATE POWER SYSTEMS, AUTOMATIC TRANSFER SWITCHES. FIRE ALARM SYSTEM (VOICE, PAGING, NOTIFICATION'S INITIATION) LIGHTING CONTROL SYSTEM ALL OTHER ELECTRICAL SUBSYSTEMS. <p>C. PROVIDE 48 HOURS ADVANCE NOTICE OF ALL TESTS. SUBMIT COMPLETE WRITTEN TEST PROCEDURES AND TEST REPORTS.</p> <p>DEMONSTRATION AND O&M MANUALS</p> <p>A. DEMONSTRATE THAT ALL EQUIPMENT AND SYSTEMS ARE OPERATING IN ACCORDANCE WITH CONTRACT REQUIREMENTS.</p> <p>B. SUBMIT THREE (3) COPIES OF OPERATION AND MAINTENANCE MANUALS FOR ALL ELECTRICAL EQUIPMENT, LIGHTING FIXTURES, LOW VOLTAGE SYSTEMS AND CONTROL SYSTEMS. MANUALS SHALL INCLUDE PRODUCT DATA, APPROVED SHOP DRAWINGS, WIRING DIAGRAMS, TROUBLESHOOTING GUIDES, WARRANTIES, RECOMMENDED SPARE PARTS LIST, NAME AND TELEPHONE NUMBER OF LOCAL SERVICE ORGANIZATION. INCLUDE CD OF AS-BUILT DRAWINGS.</p> <p>C. UPON COMPLETION OF ALL WORK, PROVIDE IN DUPLICATE, CERTIFICATES OF INSPECTIONS FROM ALL INSPECTORS AND AUTHORITIES HAVING JURISDICTION, NOTARIZED LETTERS FROM THE MANUFACTURERS STATING THAT AUTHORIZED FACTORY ENGINEERS HAVE INSPECTED AND TESTED THE INSTALLATION OF THEIR RESPECTIVE SYSTEMS AND FOUND SAME TO BE IN PERFECT OPERATING CONDITION.</p> <p>PROJECT CLOSEOUT</p> <p>A. AFTER COMPLETION OF PROJECT AND PRIOR TO REQUESTING FINAL PAYMENT GIVE WRITTEN NOTICE THAT THE FOLLOWING ITEMS HAVE BEEN COMPLETED:</p> <ol style="list-style-type: none"> REQUIRED AGENCY APPROVALS. RESOLUTION OF ALL OUTSTANDING SUBMITTALS AND PUNCH LIST ITEMS. CAD AS-BUILT DRAWINGS. TURNOVER OF SPARE LAMPS, KEYS, FUSES AND ANY REQUIRED SPARE PARTS OR TOOLS. SYSTEM STARTUP, TESTING AND ADJUSTMENT. MANUFACTURER'S CERTIFICATIONS, WARRANTIES AND O&M MANUALS. DEMONSTRATIONS AND OWNER INSTRUCTION. <p>HEAT TRACE</p> <p>A. FURNISH AND INSTALL A COMPLETE ELECTRIC TRACING SYSTEM FOR ALL GUTTERS AS SHOWN ON DRAWINGS. THE SYSTEM SHALL CONSIST OF, BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:</p> <ol style="list-style-type: none"> ELECTRIC HEATING CABLES. TEMPERATURE CONTROLLERS AND AUXILIARIES. ACCESSORY MATERIALS SUCH AS BANDING, JUNCTION BOXES, ETC. ALL REQUIRED FEEDERS TO PANELBOARDS. <p>B. EQUIPMENT SHALL BE AS MANUFACTURED BY RAYCHEM, EASY HEAT, OR EQUAL.</p> <p>C. THE SELF-REGULATING HEATER SHALL CONSIST OF (2) TWO 16 AWG TINNED COPPER BUS WIRES EMBEDDED IN PARALLEL IN A SELF REGULATING POLYMER CORE THAT VARIES ITS POWER OUTPUT TO RESPOND TO TEMPERATURE ALL ALONG ITS LENGTH, ALLOWING THE HEATER TO BE CROSSED OVER ITSELF WITHOUT OVERHEATING, TO BE USED DIRECTLY ON PLASTIC AND TO BE CUT TO LENGTH IN THE FIELD. THE HEATER SHALL BE COVERED BY A RADIATION CROSS LINKED MODIFIED POLYOLEFIN DIELECTRIC JACKET.</p> <p>D. IN ORDER TO PROVIDE ENERGY CONSERVATION AND TO PREVENT OVERHEATING, THE HEATER SHALL HAVE A SELF REGULATING FACTOR OF AT LEAST 90 PERCENT. THE SELF REGULATION FACTOR IS DEFINED AS THE PERCENTAGE REDUCTION, WITHOUT THERMOSTATIC CONTROL, OF THE HEATER OUTPUT GOING FROM 40°F TEMPERATURE OPERATION OF 150°F TEMPERATURE OPERATION.</p> <p>E. THE HEATER SHALL OPERATE ON THE LINE VOLTAGES OF 120VOLTS WITHOUT THE USE OF TRANSFORMERS.</p> <p>F. POWER CONNECTIONS, END SEAL, SPLICE AND TEE KITS COMPONENTS SHALL BE APPLIED IN THE FIELD.</p> <p>Seal(s)</p> <p></p> <p>NORR</p> <p>150 W. Jefferson Avenue, Suite 1300 Detroit, MI, US 48226 norr.com</p> <p>Project Manager M. SCHLOSSER Drawn J. VARGHESE</p> <p>Project Leader M. SCHLOSSER Checked M. GOOD</p> <p>Client PANDORA</p> <p>Project PUYALLUP, WA</p> <p>Drawing Title ELECTRICAL SPECIFICATIONS</p> <p>Scale 1/8" = 1'-0" Project No. RT2025-0370 Drawing No. E0.3</p> <p>DATE ISSUED FOR REV</p> <p>09/26/2025 ISSUE FOR CLIENT REVIEW A</p> <p>10/15/2025 ISSUED FOR PERMIT B</p> <p>11/13/2025 BID SET A</p> <p>12/04/2025 ADDENDUM 1 B</p>																				

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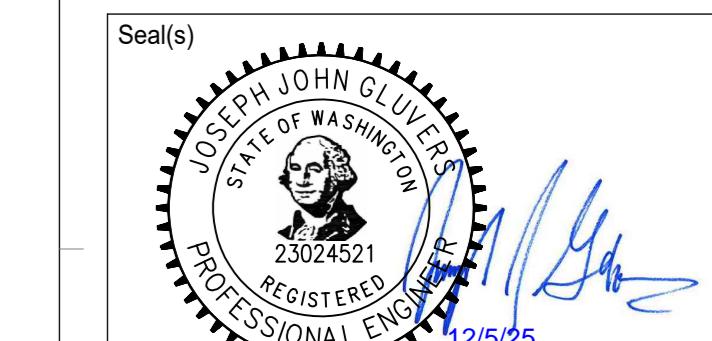


2 LIGHTING SWITCHBANK DETAIL
E0.4
SCALE: 1/8" = 1'-0"

BRANCH PANEL: LA		LOCATION: BOH 17		VOLTS: 120/208 Wye		A.I.C. RATING: 10k		MAINS TYPE: MCB		PHASES: 3		Wires: 4		ENCLOSURE: Type 1																
NOTES:																														
CKT	LG	CIRCUIT DESCRIPTION	TRIP POLE	A (VA)	B (VA)	C (VA)	POLE	TRIP	CIRCUIT DESCRIPTION	LG	CKT																			
1		WALL DISPLAY RECEPTACLES	20 A 1	720					1 20 A TRAFFIC COUNTER		2																			
3		FLOOR BOXES - CASH DESK	20 A 1		1620	100			1 20 A FRONT DIGITAL SCREEN		4																			
5		EXTERIOR LIGHTING	20 A 1			200	180	1	1 20 A WALL DISPLAY RECEPTACLES		6																			
7		WALL DISPLAY RECEPTACLES	20 A 1	720	360				1 20 A ILLUMINATED SIGN		8																			
9		MIB.02	20 A 1		500	200			1 20 A BOH RESTROOM RECEPTACLES		10																			
11		OFFICE - QUAD RECEPTACLES	20 A 1			1080	540	1	1 20 A TRAFFIC COUNTER		12																			
13		AMP.01	20 A 1	500	500				1 20 A MIB.01		14																			
15		TRACK K LIGHTING	20 A 1		322	94			1 20 A EF-1		16																			
17		IHWHL-1	25 A 2	2080	2080			2080	2080	2 25 A IHWHL-2		18																		
19		TIME CLOCK AND CONTACTOR	20 A 1		200	720			1 20 A IT RACK		22																			
23		REFRIGERATOR	20 A 1			400	1200		1 20 A MICROWAVE		24																			
25		OFFICE - QUAD RECEPTACLES	20 A 1	720	500				1 20 A (E) FACP		26																			
27		SALES DESK RECEPTACLE	20 A 1		360	0			1 20 A SPARE		28																			
29		SAFE RECEPTACLE	20 A 1			180	504	1	1 20 A F TYPE LTS, PEN.01		30																			
31		COVE LTS, H TYPE LTS	20 A 1	1512	254				1 20 A EXIT SIGNS & EM LIGHTS		32																			
33		SPACE	-- 1		--	--			1 -- SPACE		34																			
35		SPACE	-- 1		--	--			1 -- SPACE		36																			
37		SPACE	-- 1	--	--	--			1 -- SPACE		38																			
39		SPACE	-- 1		--	--			1 -- SPACE		40																			
41		SPACE	-- 1		--	--			1 -- SPACE		42																			
LOAD:		9946 VA	4116 VA		8444 VA																									
AMPS:		88 A	34 A		76 A																									
LEGEND (LG):																														
A - ARC FAULT BREAKER, E - EXISTING BREAKER, EL - EXISTING LOAD AND BREAKER, G - GROUND FAULT BREAKER, L - LOCKED-ON BREAKER, S - SHUNT TRIP BREAKER																														
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS																									
Lighting		244 VA	100.00%	244 VA	TOTAL CONN. LOAD: 22506 VA																									
Other		4808 VA	100.00%	4808 VA	TOTAL EST. DEMAND: 22521 VA																									
Power		8414 VA	100.00%	8414 VA	TOTAL CONN.: 62 A																									
Receptacle		8980 VA	100.00%	8980 VA	TOTAL EST. DEMAND: 63 A																									
L		60 VA	125.00%	75 VA																										
NOTES:																														
- PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED FOR NEW LOADS.																														



3 TIME CLOCK LIGHTING CONTROL
E0.4
SCALE: N.T.S.



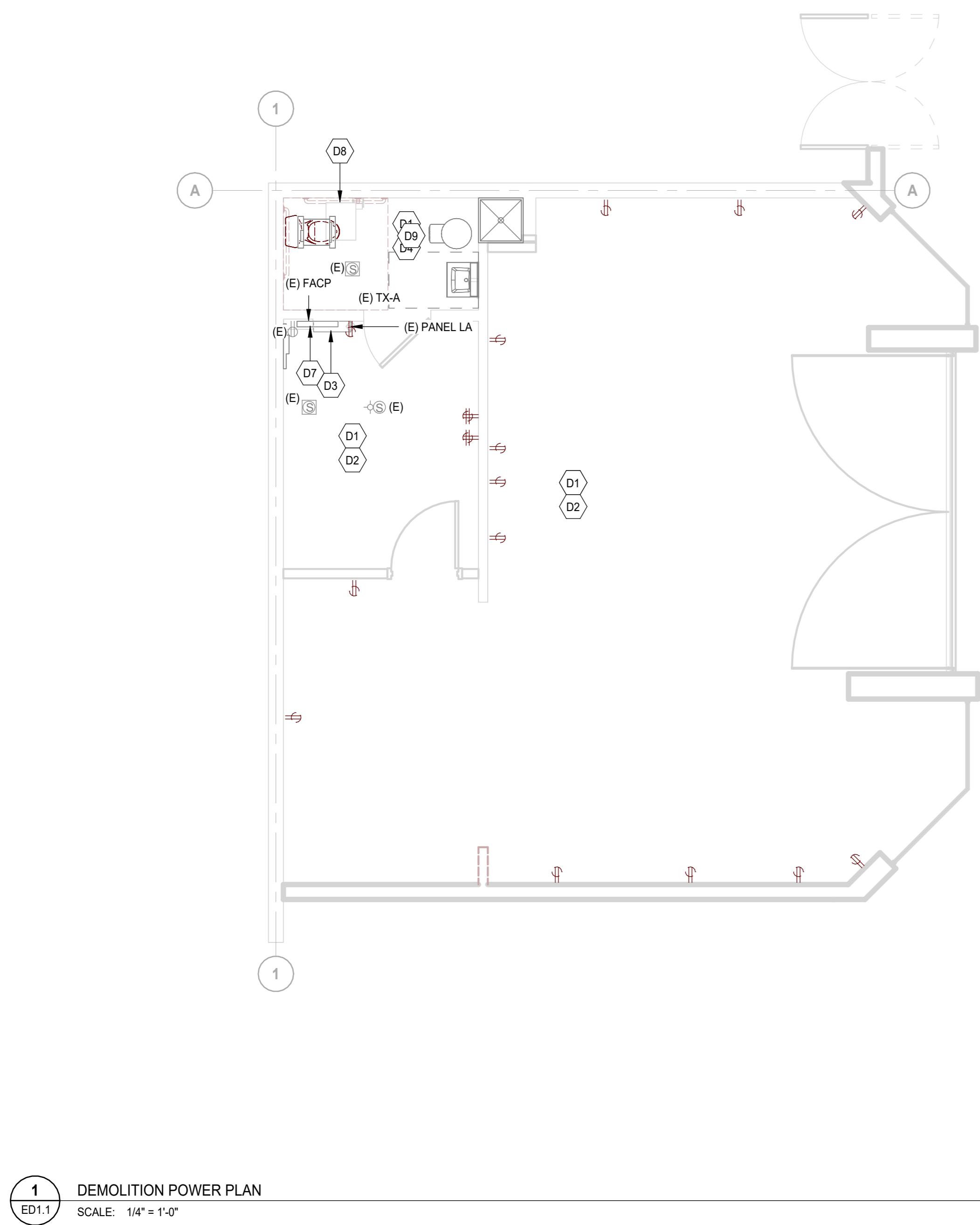
NORR

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Detroit, MI, US 48226
norr.com

Project Manager M. SCHLOSSER Drawn J. VARGHESE
Project Leader Checked M. GOOD
Client PANDORA

Project PUYALLUP, WA
Drawing Title ELECTRICAL SCHEDULES & DETAILS

Scale 1/8" = 1'-0"
Project No. RT2025-0370
Drawing No. E0.4



1 DEMOLITION POWER PLAN
ED1.1
SCALE: 1/4" = 1'-0"

DEMOLITION KEYNOTES	
D1	UNLESS OTHERWISE NOTED, DISCONNECT AND REMOVE ELECTRICAL DEVICES SUCH AS RECEPTACLES, OUTLETS, JUNCTION BOXES WITH ALL ASSOCIATED CONTROLS BACK TO SOURCE. SAVE CIRCUITS TO BE REUSED.
D2	UNLESS OTHERWISE NOTED, DISCONNECT AND REMOVE ALL AUXILIARY SYSTEMS SUCH AS ALARM, MUSIC, FIRE ALARM DEVICES, AND CAMERAS WITH ALL ASSOCIATED CONTROLS BACK TO SOURCE. RETURN DEVICES TO OWNER.
D3	MAINTAIN EXISTING POWER PANELBOARD TO BE REUSED.
D4	DISCONNECT AND REMOVE EXISTING WATER HEATER WITH ASSOCIATED CONTROLS BACK TO SOURCE. SAVE CIRCUIT TO BE REUSED.
D5	UNLESS OTHERWISE NOTED, DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND CONTROLS INCLUDING EMERGENCY LIGHTS AND TRACK LIGHTS WITH ALL RELATED CABLING BACK TO NEAREST FIXTURE AND TERMINATE.
D6	EXISTING LIGHT FIXTURE TO REMAIN.
D7	EXISTING FIRE ALARM CONTROL PANEL TO REMAIN.
D8	EXISTING DRY-TYPE TRANSFORMER 480V-120/208V, 3H, 4W, 30KVA LOCATED ABOVE CEILING TO REMAIN.
D9	DISCONNECT AND REMOVE POWER FOR EXHAUST FAN AND HOT WATER TANK LOCATED IN RESTROOM.

GENERAL DEMOLITION NOTES

A. COORDINATE ALL WORK CONCERNING EXISTING EQUIPMENT AND SERVICES TO REMAIN DE-ENERGIZE CIRCUITS AND MAKE THEM SAFE AS REQUIRED. RECONNECT CIRCUITS THAT ARE TO REMAIN AND ARE DISRUPTED DURING DEMOLITION.

B. REMOVE EXPOSED OR ACCESSIBLE WIRING, TO EQUIPMENT OR OUTLETS TO BE REMOVED, UNLESS OTHERWISE INDICATED. LABEL AND TERMINATE WIRING TO REMAIN.

C. WHERE EXISTING OUTLETS ARE TO REMAIN AND ARE CUT OFF BY THE REMODELING THEY SHALL RE-CONNECTED TO CIRCUITS AS REQUIRED BY JOB CONDITIONS.

D. LEGALLY DISPOSE OF EQUIPMENT WHERE EXISTING EQUIPMENT IS INDICATED TO BE REMOVED OR SERVING EQUIPMENT TO BE REMOVED SHALL BE REMOVED BACK TO THE SOURCE OR TO THE NEXT JUNCTION POINT IF THE WIRING SERVES OTHER OUTLETS THAT WILL REMAIN. CONDUIT OVER UNDISTURBED CEILINGS SHALL REMAIN AND BE LABELED ABANDONED ON EACH END WITH END POINTS INDICATED.

E. WIRING INDICATED TO BE REMOVED OR SERVING EQUIPMENT TO BE REMOVED SHALL BE REMOVED BACK TO THE SOURCE OR TO THE NEXT JUNCTION POINT IF THE WIRING SERVES OTHER OUTLETS THAT WILL REMAIN. CONDUIT OVER UNDISTURBED CEILINGS SHALL REMAIN AND BE LABELED ABANDONED ON EACH END WITH END POINTS INDICATED.

F. RECONNECT EXISTING CIRCUITRY WHICH ORIGINATES OR PASSES THROUGH THE RENOVATED AREAS BUT SERVES OTHER AREAS NOT BEING RENOVATED. EXTEND THESE CIRCUITS AS MAY BE NECESSARY TO THE EXISTING PANELBOARDS.

G. COORDINATE WORK CONCERNING EXISTING EQUIPMENT AND SERVICES IN THE BUILDING. COORDINATE REQUIRED POWER INTERRUPTIONS AND PERFORM AT TIME CONVENIENT TO OWNER. INCLUDE COSTS FOR REQUIRED PREMIUM TIME.

H. VERIFY THE INTEGRITY AND CONDITION OF THE EXISTING BRANCH CIRCUIT WIRING THAT IS TO BE RE-USED. REPLACE WIRING FOUND TO BE NON-FUNCTIONAL.

DATE	ISSUED FOR	REV
09/26/2025	ISSUE FOR CLIENT REVIEW	
10/15/2025	ISSUED FOR PERMIT	
11/13/2025	BID SET	A
12/04/2025	ADDENDUM 1	B

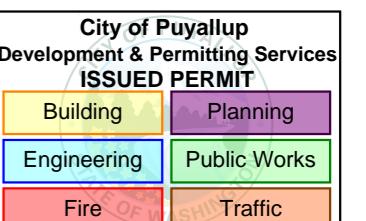
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This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer

Project Component

Key Plan



Consultants

Survey: N/A
Civil: N/A
Architecture: NORR
Structural: N/A
Mechanical: NORR
Electrical: NORR
Interiors: N/A
Landscape: N/A

Seal(s)

**NORR**150 W. Jefferson Avenue, Suite 1300
Detroit, MI, US 48226
norr.com

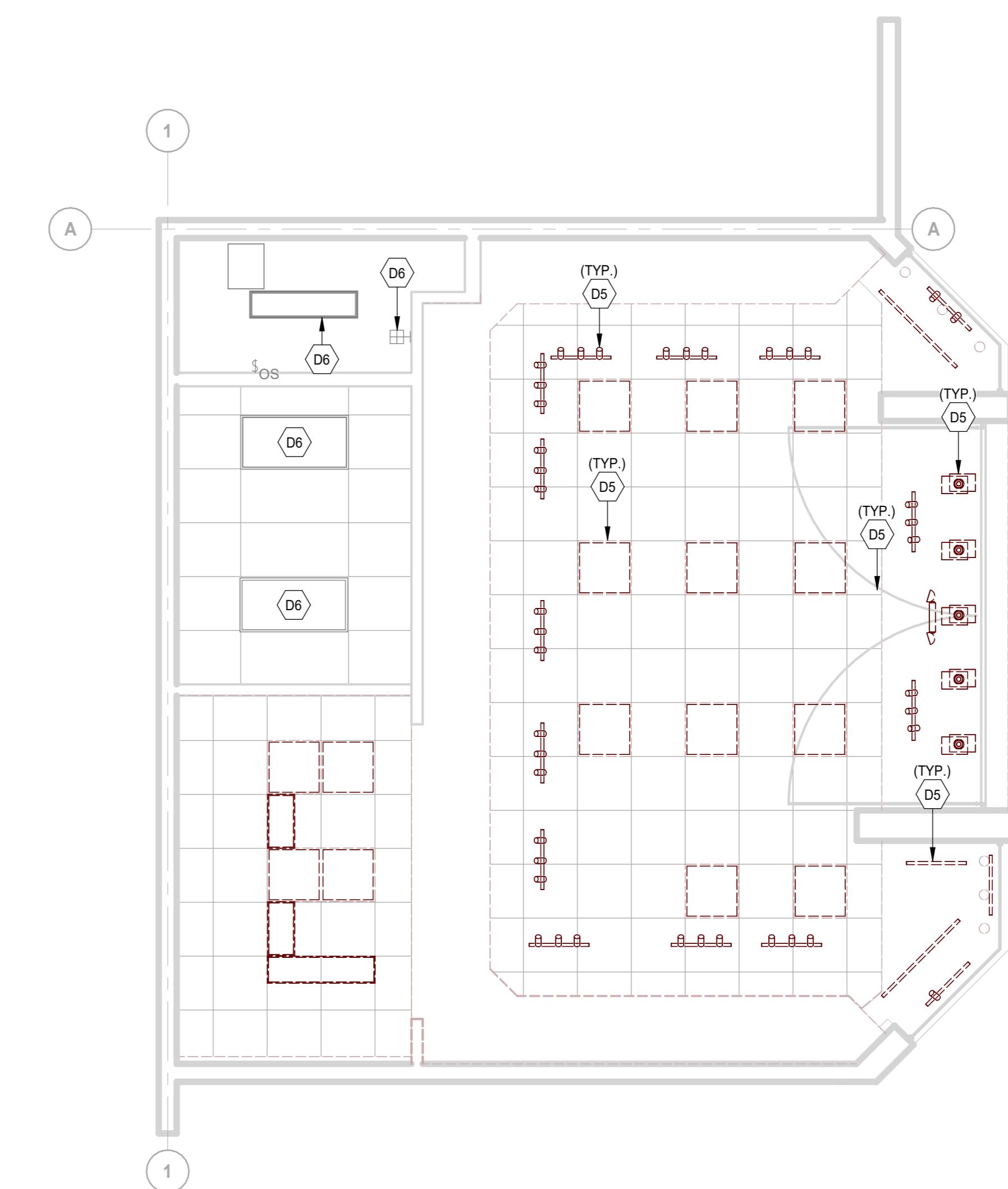
Project Manager M. SCHLOSSER Drawn J. VARGHESE
Project Leader M. SCHLOSSER Checked M. GOOD
Client PANDORA

PUYALLUP, WA

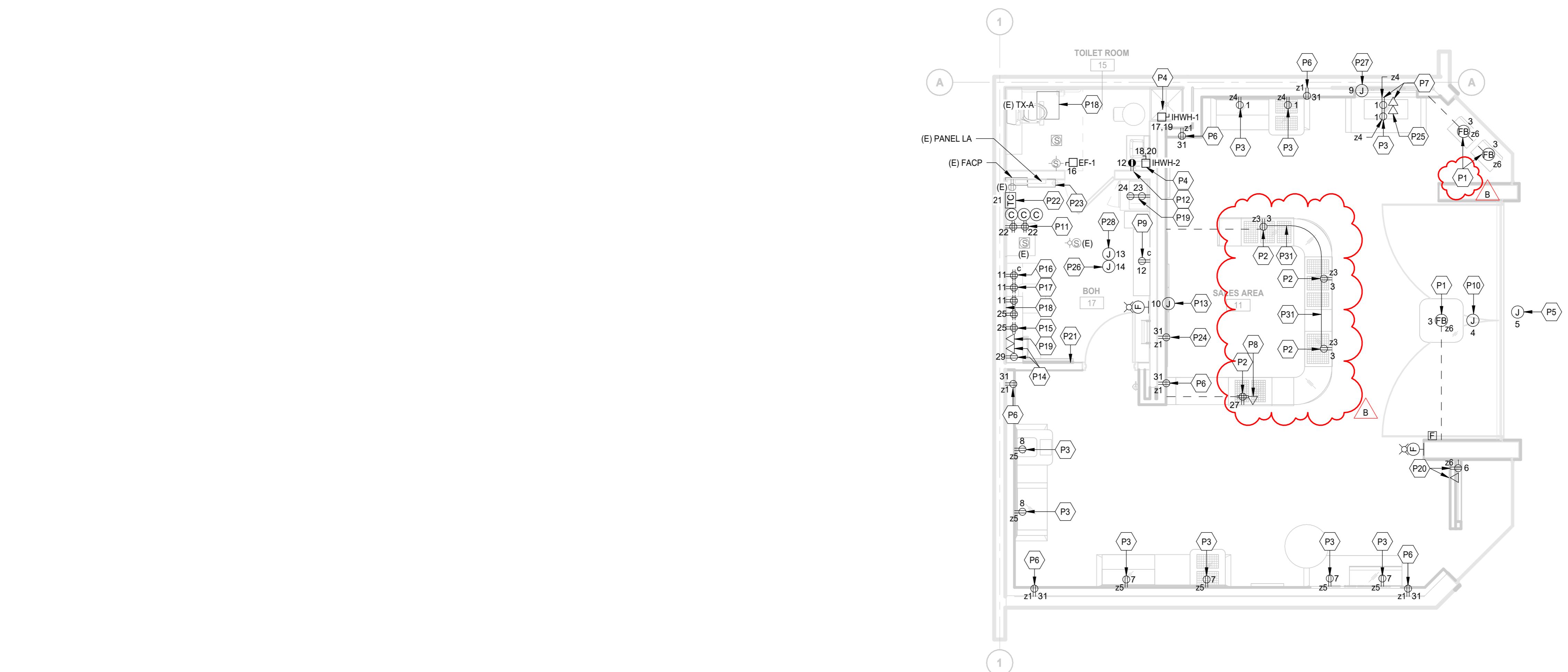
SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA

Drawing Title
POWER & LIGHTING DEMOLITION PLAN

Scale As indicated
Project No. RT2025-0370
Drawing No. ED1.1



2 DEMOLITION LIGHTING PLAN
ED1.1
SCALE: 1/4" = 1'-0"



POWER PLAN

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

GENERAL POWER NOTES

A. FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, REFER TO DRAWING E001.

B. CONTRACTOR SHALL PROVIDE COMPLETE AND ACCURATE CIRCUIT DIRECTORIES FOR ALL NEW AND EXISTING PANELS AFTER NEW WORK IS COMPLETED.

C. CONTRACTOR SHALL COORDINATE ALL TELE/DATA REQUIREMENTS WITH OWNER'S TELE/DATA VENDOR.

D. PROVIDE A JUNCTION BOX AND PULL STRING FROM EACH CARD READER/ELECTRIC DOOR STRIKE TO SECURITY EQUIPMENT RACK IN IDF ROOM. PROVIDE FIRE ALARM CONTACT TO SECURITY EQUIPMENT RACK FOR CARD READER/ELECTRIC DOOR TO RELEASE UPON GENERAL ALARM OF FIRE ALARM SYSTEM.

E. FIRE ALARM SHALL BE OPERATIONAL AND MAINTAINED DURING ALL ASPECTS OF DEMOLITION AND NEW CONSTRUCTION.

F. MAINTAIN THE CONTINUITY OF ALL EXISTING TO REMAIN OUTSIDE THE SCOPE OF WORK AREA.

G. ALL ELECTRICAL OUTLETS AND JUNCTION BOXES SHALL BE STAGGERED WITHIN THE WALL TO AVOID SOUND TRANSMISSION.

H. ALL NEW FIRE ALARM DEVICES TO BE CONNECTED TO EXISTING FIRE ALARM SYSTEM. PROVIDE NEW WIRING AND CONDUIT TO ALL NEW FIRE ALARM DEVICES. NEW DEVICES SHALL MATCH EXISTING SYSTEM DEVICES. PROVIDE NEW BATTERIES, STROBE SYNC MODULES, HARDWARE, SOFTWARE, ETC AT THE FIRE ALARM CONTROL PANEL NECESSARY TO SUPPORT NEW FIRE ALARM DEVICES.

I. ALL RECEPTACLES SHALL BE LABELED INDICATING CIRCUIT NUMBER AND PANEL NAME.

J. UNLESS OTHERWISE NOTED, ELECTRICAL DEVICES SHALL BE CIRCUITED TO PANEL LA.

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11/13/2025	BID SET	A
12/04/2025	ADDENDUM 1	B

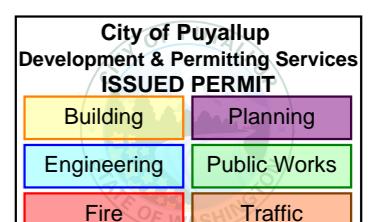
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Project Component

Key Plan



Consultants

Survey: N/A
 Civil: N/A
 Architecture: NORR
 Structural: N/A
 Mechanical: NORR
 Electrical: NORR
 Interiors: N/A
 Landscape: N/A

**NORR**150 W. Jefferson Avenue., Suite 1300
Detroit, MI, US 48226
norr.com

Project Manager
M. SCHLOSSER
Drawn
J. VARGHESE
Project Leader
M. SCHLOSSER
Checked
M. GOOD
Client
PANDORA

Project
PUYALLUP, WA

SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA

Drawing Title
POWER PLAN

Scale
As indicated
Project No.
RT2025-0370
Drawing No.
E1.1

Lighting Fixture Schedule					
TYPE MARK	DESCRIPTION	MANUFACTURER	ITEM NO./MODEL NO.	LAMP TYPE	REMARKS
A	BOH EMERGENCY - WALL MOUNTED BY MORRIS MORRIS	EDG-X-R	LED		
C	SALES AREA EMERGENCY - FLUSH CEILING CONSEALITE MOUNTED BY CONSEALITE	F5000-LED3-90-PT (HARD LID) FOR TBAR CHANGE SUFFIX TO TB	LED		
D	EXIT WALL MOUNTED SURELITE	SURAPXTRG			PROVIDE GREEN LETTERS
E	EXIT - CEILING RECESSED EXTRONIX	S902-WB-SR-GC-WH			
EX	EXISTING TO REMAIN -	-	-		
F	DOWNLIGHT HERA	CRE105WH/3500/09/15	LED		
H	DOWNLIGHT HERA	CRE105G/Y3500/09/15	LED		
K	SPOT HERA	HCT/SPOT/BL/3500/18/20-1855 LUMENS	LED		
M	LED TAPE HERA	TAPE/C12/1963500/PC/79/WH; DRIVER - PS24V/96/DIM/S/D	LED		
PEN.01	PENDANT LOUIS POULSEN	5741939972	E26		
T1	LINE VOLTAGE TRACK - XX" TRACK FINISH IN BLACK	HERA	HCTR/TRACK/XX/BL	TRACK	PROVIDE TRACK PARTS: STRAIGHT CONNECTOR - HTC/SC/BL; LIVE END CONNECTOR; HCT/LE/BL; END CAP - HCT/SEC/BL

LIGHTING KEYNOTES	
L1	RECIRCUIT EXISTING LIGHT FIXTURE IN RESTROOM TO GENERAL LIGHTING CIRCUIT.
L2	LIGHT FIXTURES ON SALES FLOOR SHALL BE FED THROUGH LIGHTING CONTACTOR. REFER TO SHEET DETAIL 1/E2.1 FOR MORE INFORMATION.
L3	PROVIDE GREEN GATE WIRELESS DECODED DIMMING SWITCH FOR CONTROL OF LIGHTS WITH CEILING OCCUPANCY MOTION SENSORS.



GENERAL LIGHTING NOTES

A. FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, REFER TO DRAWING E001.

B. FOR LIGHTING FIXTURE DESCRIPTIONS, REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E001.

C. FOR ACTUAL LOCATION OF CEILING MOUNTED LIGHTING FIXTURES, REFER TO ARCHITECTURAL REFLECTED CEILING DRAWING(S). FOR ACTUAL LOCATION OF WALL MOUNTED LIGHTING FIXTURES AND TASK LIGHTING, REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS.

D. CONNECT EXIT SIGNS, EMERGENCY BATTERY UNITS AND EMERGENCY BATTERY BALLAST UNITS TO THE UNSWITCHED SIDE OF LOCAL EMERGENCY LIGHTING CIRCUIT OR CIRCUIT INDICATED, TO MONITOR AC CIRCUIT AND FOR CONTINUOUS BATTERY CHARGING.

E. ALL LIGHTING FIXTURES WITHIN A SPACE SHALL BE CONTROLLED BY INDICATED SWITCH AND/OR SENSOR WITHIN THAT SPACE.

F. THE TOTAL CONNECTED LOAD SHALL NOT EXCEED 1600 WATTS FOR A 20A, 120V CIRCUIT OR 3600W FOR A 20A, 277V CIRCUIT.

G. UNLESS OTHERWISE INDICATED, ALL NEW LIGHT FIXTURES SHALL BE CIRCUITED TO EXISTING PANEL LA-15.

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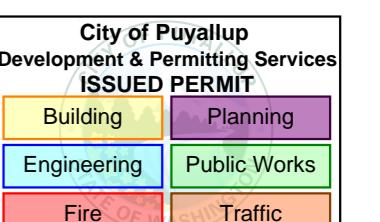
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Project Component

Key Plan



Consultants

Survey: N/A
Civil: N/A
Architecture: NORR
Structural: N/A
Mechanical: NORR
Electrical: NORR
Interiors: N/A
Landscape: N/A

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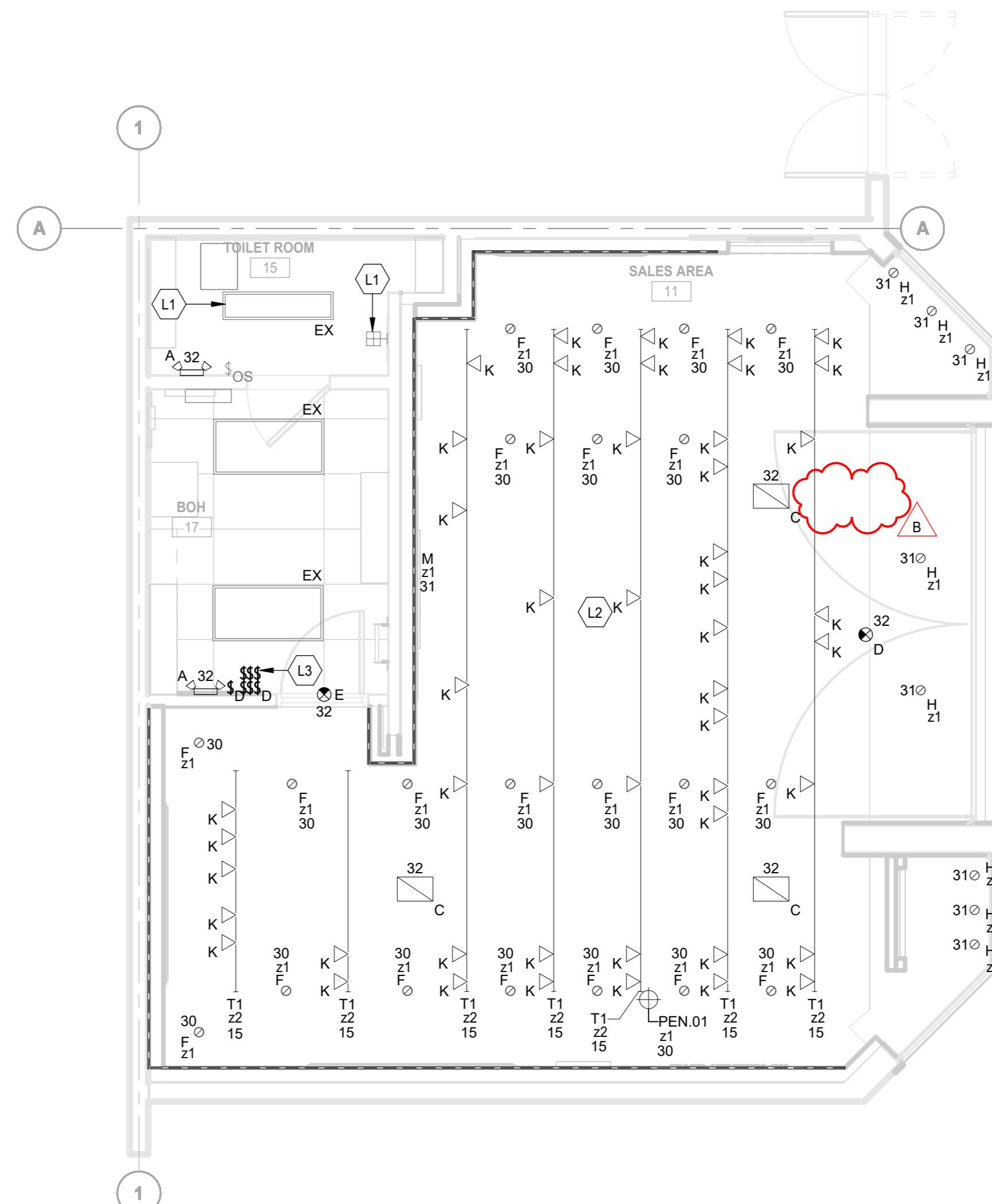
Project Manager: M. SCHLOSSER Drawn: J. VARGHESE
Project Leader: M. SCHLOSSER Checked: M. GOOD
Client: **PANDORA**

Project **PUYALLUP, WA**

SOUTH HILL MALL 3500 S. MERIDIAN, PUYALLUP, WA

Drawing Title **LIGHTING PLAN**

Scale As indicated
Project No. RT2025-0370
Drawing No. **E2.1**



LIGHTING PLAN

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

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Pandora - Puyallup, WA
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Pandora Puyallup (Retail/Sales Area)	738	1.05	775
Allowance: Other retail highlighting / Fix. ID: Track Lighting: T1, K	738 (a)	0.45	332 (b)
Supplemental Allowed Watts (null) =		473	
Total Allowed Watts =		1580	

(a) Area claimed must not exceed the illuminated area permitted for this allowance type.
(b) Allowance is (B x C) or the actual wattage of the fixtures given in Section 2, whichever is less.
(c) Supplemental watts must be associated with retail merchandise highlighting fixtures. Supplemental watts are not included calculation of lighting compliance percentage.

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture (C X D)	E Watt.
1-Pandora Puyallup (Retail/Sales Area)				
Track Lighting: T1, K: Wattage based on 136 feet of track	0	0	1088	1088
LED: F1: Downlights: Other:	1	20	15	300
LED: F2: Downlights: Other:	1	8	24	192
Total Proposed Watts =				1580

Interior Lighting : Passes using retail merchandise highlighting supplemental watts.

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the inspection Checklist.

Joseph Gluvers, Sr. Engineer  Date: 12/25

Name - Title: Signature: Date: 12/25

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 42.0% were addressed directly in the COMcheck software.
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and documents where exceptions to the standard are claimed. Information provided should include interior lighting fixture calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
			Additional Comments/Assumptions:

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C405.2.1, 1 [EL18] ¹	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, open-plan break areas, enclosed offices, open-plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are occupied by people during the height of partitioned reference section coverage C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1, 2 [EL19] ¹	Occupancy sensors control function in classrooms. In walkways and open areas, lighting in walkways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The lighting in the walkways and open areas will each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1, 3 [EL20] ¹	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces <= 300 sqft. have controls 1) control general lighting in the zone can be controlled separately in control zones with floor areas <= 600 sqft. within the space, 2) general lighting in the zone permitted to turn on upon occupant detection, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that the general lighting power within each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.2, 1 [EL21] ¹	Each area not served by occupancy sensors (C405.2.1.1) have time switch controls and functions detailed in sections C405.2.2.1.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5, 2 [F117] ¹	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.1.1 [F157] ¹	Building operations and maintenance documents will be provided to the owner. Documents will cover maintenance, operation, specifications, programming, procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5 [F116] ¹	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.3 [F133] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Project Title: Pandora - Puyallup, WA Report date: 09/26/25 Data filename: Page 1 of 5

Project Title: Pandora - Puyallup, WA Report date: 09/26/25 Data filename: Page 2 of 5

Project Title: Pandora - Puyallup, WA Report date: 09/26/25 Data filename: Page 3 of 5

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, 1 [EL23] ¹	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.5 [EL27] ¹	Additional interior lighting power is allowed for specific fixtures per the approved lighting plans and is automatically controlled and is separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.7 [EL26] ²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.8 [EL27] ²	Electric motors meet the minimum efficiency requirements of C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturers. Motor efficiency verification programs do not exist.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.9.1, C405.9.2 [EL28] ²	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.10 [EL29] ²	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.1.1 [EL30] ²	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.11, C405.11.1 [EL31] ²	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations >= 20 sqft. shall have feeders for mobile furniture will have automatic receptacle control in accordance with C405.11.1.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E1.1

Additional Comments/Assumptions:

Project Title: Pandora - Puyallup, WA Report date: 09/26/25 Data filename: Page 4 of 5

Project Title: Pandora - Puyallup, WA Report date: 09/26/25 Data filename: Page 5 of 5

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, 1 [EL22] ¹	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce connected lighting load in reasonably proportionate illumination patterns 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1, 1 [EL18] ¹	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, open-plan break areas, enclosed offices, open-plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are occupied by people during the height of partitioned reference section coverage C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1, 2 [EL19] ¹	Occupancy sensors control function in walkways. In walkways and open areas, lighting in walkways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The lighting in the walkways and open areas will each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1, 3 [EL20] ¹	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces <= 300 sqft. have controls 1) control general lighting in the zone can be controlled separately in control zones with floor areas <= 600 sqft. within the space, 2) general lighting in the zone permitted to turn on upon occupant detection, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that the general lighting power within each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Section # & Req.ID	Rough	Complies?	Comments/Assumptions
C405.2.2, 1 [EL21] ¹	Each area not served by occupancy sensors (C405.2.1.1) have time switch controls and functions detailed in sections C405.2.2.1.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
			Additional Comments/Assumptions: