

PRINT DATE & TIME: July 18, 2022 - 2:56 pm
DRAWING LOCATION: N:\Bluemercury\2022 Stores\22129 - The Village at Totem Lake - Kirkland, WA - REVIT-CA0022129_The Village at Totem Lake.dwg

ABBREVIATIONS	
ACP	ACOUSTICAL CEILING PANEL
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ALT	ALTERNATE
BD	BOARD
BLDG	BUILDING
BLK. HD.	BULKHEAD
BM	BEAM
BTM	BOTTOM
B.O.	BOTTOM OF
CL / S	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CTR	CENTER
DEPT	DEPARTMENT
D	DEPTH OR DEEP
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DR	DOOR
DBL	DOUBLE
DWG	DRAWING
EJ	EXPANSION JOINT
ELEV	ELEVATION
ELEC	ELECTRICAL
EC	ELECTRICAL CONTRACTOR
EMER	EMERGENCY
EQ	EQUAL
EX OR EXTG	EXISTING
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FF	FINISH FLOOR
FIN	FINISHED / FINISH
FLR	FLOOR
F.O.	FACE OF
FR	FIRE RETARDANT
GALV	GALVANIZED
GA	GAUGE OR GAGE
GC or G.C.	GENERAL CONTRACTOR
GJ	GROUT JOINT
GL	GLASS
GYP. BD.	GYPSPUM BOARD / DRYWALL
GWB	GYPSPUM BOARD / DRYWALL
HC	HANDICAPPED
HDW	HARDWARE
HGT OR H	HEIGHT OR HIGH
HVAC	HEATING / VENTILATION / AIR CONDITIONING
HOC	HOLLOW CORE
HM	HOLLOW METAL
INSUL	INSULATION
L	LENGTH OR LONG
L.L.	LEASE LINE
LLD	LANDLORD
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MGMT	MANAGEMENT
MFG	MANUFACTURER
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MECH	MECHANICAL
MTL	METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTG	MOUNTING
NA	NOT APPLICABLE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.H.	OPPOSITE HAND
O.D.	OUTSIDE DIMENSION
PH	PHONE
PR	PAIR
PTD	PAINTED
QTY	QUANTITY
REF	REFERENCE
REINF	REINFORCING
RELO	RELOCATED
RO	ROUGH OPENING
SHT	SHEET
SIM	SIMILAR
SPEC.	SPECIFICATION
STD	STANDARD
STL	STEEL
STRUCT.	STRUCTURAL OR STRUCTURE
TEMP	TEMPERED
TME	THICK
T.O.	TO MATCH EXISTING
TS	TOP OF
TYP	TUBULAR STEEL
UNO	UNLESS NOTED OTHERWISE
U/S	UNDERSIDE
VCT	VINYL COMPOSITION TILE
V.I.F.	VERIFY IN FIELD
VERT	VERTICAL
W	WIDTH OR WIDE
WD	WOOD
W/	WITH

CONTACTS	
TENANT	OWNER/ LANDLORD
BLU MERCURY 7250 WOODMONT AVENUE SUITE #200 BETHESDA, MD 20814 CONTACT: LILY GOODSON TITLE: SENIOR MANAGER, REAL ESTATE AND CONSTRUCTION PH: (703) 674-9501 CONTACT: AARON WALLIS TITLE: CONSTRUCTION PROJECT MANAGER PH: (734) 368-7398	CENTERCAL PROPERTIES, LLC 7455 SW BRIDGEPORT RD SUITE 215 TIGARD, OR 97224 CONTACT: KARL HUNTER PH: (801) 647-1357 EMAIL: khunter@centercal.com M.E.P. ENGINEER THORSON BAKER + ASSOCIATES 3030 WEST STREETSBORO ROAD RICHFIELD, OH 44286 CONTACT: JUAN CASTRO PH: (330) 659-6688
ARCHITECT LGA PARTNERS 1425 FORBES AVENUE SUITE 400 PITTSBURGH, PA 15219 CONTACT: PAULETTE BURNS PH: (412) 243-3430 PROJECT MANAGER: CONTACT: MALLORY MARZOLF PH: (412) 224-6560 EMAIL: mmarzolf@lga-partners.com	
BUILDING DEPARTMENT CITY OF KIRKLAND PLANNING AND BUILDING DEPARTMENT KIRKLAND CITY HALL 123 5TH AVE KIRKLAND, WA 98033 PH: (425) 587-3600	

DEFERRED SUBMITTALS

- SIGN SHOP DRAWINGS - TO BE SUBMITTED BY TENANT SIGN VENDOR UNDER SEPARATE REVIEW
- FIRE SPRINKLER SYSTEM SHOP DRAWINGS - TO BE SUBMITTED BY TENANT GC UNDER SEPARATE REVIEW
- FIRE ALARM SYSTEM SHOP DRAWINGS - TO BE SUBMITTED BY TENANT GC UNDER SEPARATE REVIEW

Fire protection permits are separate FIR permits and not deferred.

GENERAL CONSTRUCTION NOTES

- TENANT'S GENERAL CONTRACTOR (G.C.) IS TO VERIFY LEASE SPACE DIMENSIONS AND EXISTING BUILDING ELEMENTS FOR COMPLIANCE WITH THE DRAWINGS UPON COMPLETION OF DEMOLITION. NOTIFY THE OWNER FOR RESOLUTION OF DIMENSIONAL CONFLICTS IF EXISTING. NO CHANGE ORDERS WILL BE ISSUED FOR CHANGES REQUIRED IN THE WORK AFTER CONSTRUCTION HAS COMMENCED UNLESS WRITTEN AUTHORIZATION IS GIVEN BY THE OWNER.
- ANY DISCREPANCIES, ERRORS, OR OMISSIONS DISCOVERED IN THE CONTRACT DOCUMENTS BY THE G.C. SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER BEFORE PROCEEDING WITH RELATED WORK. OTHERWISE, THE CORRECTION OF SUCH ITEMS WILL BE THE RESPONSIBILITY OF THE G.C.
- THE G.C. SHALL MEET WITH AN AUTHORIZED REPRESENTATIVE OF THE LANDLORD TO REVIEW CONSTRUCTION PROCEDURES (PRE-CON MEETING). G.C. SHALL COORDINATE WITH THE LANDLORD WITH REGARD TO TEMPORARY BARRICADES, UTILITIES, ALLOWABLE MATERIALS, TRAFFIC ROUTES, DELIVERY LOCATIONS AND METHODS, STORAGE OF MATERIAL AND TOOLS, NOISE, DUST CONTROL, REQUIRED DEPOSITS, REQUIRED CONTRACTORS, CLEAN-UP, AND ALL OTHER MATTERS REQUIRING ADHERENCE TO LANDLORD REQUIREMENTS.
- APPLICABLE STANDARDS OF THE CONSTRUCTION INDUSTRY HAVE THE SAME FORCE AND EFFECT ON PERFORMANCE OF THE WORK AS IF COPIED DIRECTLY INTO CONTRACT DOCUMENTS OR BOUND AND PUBLISHED HERewith. COMPLY WITH STANDARDS IN EFFECT AS OF THE DATE OF CONTRACT DOCUMENTS, UNLESS OTHERWISE INDICATED.
- THE G.C. IS RESPONSIBLE TO RECEIVE, COUNT AND VERIFY ALL OWNER FURNISHED ITEMS AT THE JOB SITE, INCLUDING BUT NOT LIMITED TO, FREE-STANDING FIXTURES, PERIMETER FIXTURES, FLOORING, GLAZING CHANNEL, CASEWORK & MILLWORK ITEMS, LIGHTING, LAMPS AND AV EQUIPMENT. G.C. TO REPORT SHORTAGES AND/OR DAMAGES IMMEDIATELY UPON SHIPMENT.
- UNLESS OTHERWISE INDICATED, THE G.C. IS TO FURNISH ALL MATERIALS, LABOR AND EQUIPMENT FOR THE COMPLETE AND SATISFACTORY EXECUTION OF THE CONTRACT WORK AS SHOWN, CALLED FOR, EXPRESSED OR REASONABLY IMPLIED BY THE CONTRACT DOCUMENTS AND IN COMPLIANCE WITH CODES AND REGULATIONS OF ALL NATIONAL, STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
- G.C. TO CONTACT BLU MERCURY PRIOR TO THE START OF CONSTRUCTION TO CONFIRM ALL VENDOR SUPPLIED ITEMS, INSTALLATION AND SCHEDULE.
- PICTURES OF THE JOB SITE MUST BE SENT TO THE CONSTRUCTION MANAGER OR PROJECT MANAGER EVERY FRIDAY BY 10 AM EST, ALONG WITH THE BLU MERCURY REQUIRED 'CONTRACTOR FORM' SPREADSHEET. THE SPREADSHEET HAS BEEN PROVIDED WITH THE BID PACKAGE FROM THE ARCHITECT. AT ANY TIME, BLU MERCURY'S CONSTRUCTION MANAGER OR PROJECT MANAGER HAS THE RIGHT TO REQUEST JOB PICTURES MORE FREQUENTLY. THE G.C. MUST COMPLY WITH THIS REQUEST.
- 'PROVIDE' OR 'PROVIDED' REFERS TO BOTH FURNISHED AND INSTALLED BY THE PARTY LISTED.
- THE G.C. IS RESPONSIBLE FOR HAVING THE MOST CURRENT SET OF DRAWINGS ON SITE DURING CONSTRUCTION AND ALSO FOR THE DISTRIBUTION OF CURRENT DRAWINGS TO ALL SUBCONTRACTORS. THE G.C. AND THEIR SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING THE REVISED DRAWINGS FOR CHANGES, REGARDLESS OF THE PRESENCE OF REVISION CLOUDS ON THE DRAWINGS. THE G.C. IS RESPONSIBLE FOR NOTIFYING THE OWNER OF ANY CHANGES THAT AFFECT THE ORIGINAL SCOPE OF WORK. THE G.C. MAY CONTACT THE PROJECT MANAGER PRIOR TO CONSTRUCTION TO REQUEST THE MOST CURRENT SET OF ISSUED DRAWINGS.
- ALL GENERAL CONTRACTORS AND SUB-CONTRACTORS ARE REQUIRED TO CONTACT THE BUILDING MANAGEMENT OFFICE PRIOR TO ANY SITE VISITS TO SCHEDULE AN APPOINTMENT TO VISIT THE SPACE.
- THE G.C. IS RESPONSIBLE FOR HAVING A COPY OF THE LANDLORD APPROVED SET ON SITE AT ALL TIMES AND IS RESPONSIBLE FOR COMPLIANCE WITH ALL NOTES / COMMENTS WITHIN THE DRAWING PACKAGE.

LANDLORD NOTES

- TENANT'S G.C. PROJECT MANAGER OR SITE SUPERINTENDENT MUST HAVE A PRE-CONSTRUCTION MEETING WITH THE LANDLORD'S TENANT COORDINATOR PRIOR TO STARTING ANY WORK.
- THE TENANT'S CONTRACTOR WILL PAY FOR REPAIR AND/OR REPLACE OF LANDLORD'S PROPERTY DAMAGED DURING TENANT IMPROVEMENTS. AT LANDLORD'S OPTION, THIS COST PLUS 10% IF LANDLORD PERFORMS THE WORK WILL BE DEDUCTED FROM TENANT'S CONSTRUCTION DEPOSIT.
- ALL MATERIALS USED IN THE CONSTRUCTION OF THIS SPACE MUST BE HAZARDOUS MATERIAL FREE. TENANT'S CONTRACTOR TO CERTIFY AT END OF WORK THAT TENANT'S WORK IS HAZARDOUS MATERIAL FREE.
- FOOD RELATED TENANTS AND UPPER LEVEL TENANTS WITH BATHROOMS SHALL PROVIDE A WATERPROOF MEMBRANE IN WET AREAS. THE WATER TEST MUST BE WITNESSED BY THE LANDLORD'S ON-SITE REPRESENTATIVE AND SPECIAL INSPECTOR.

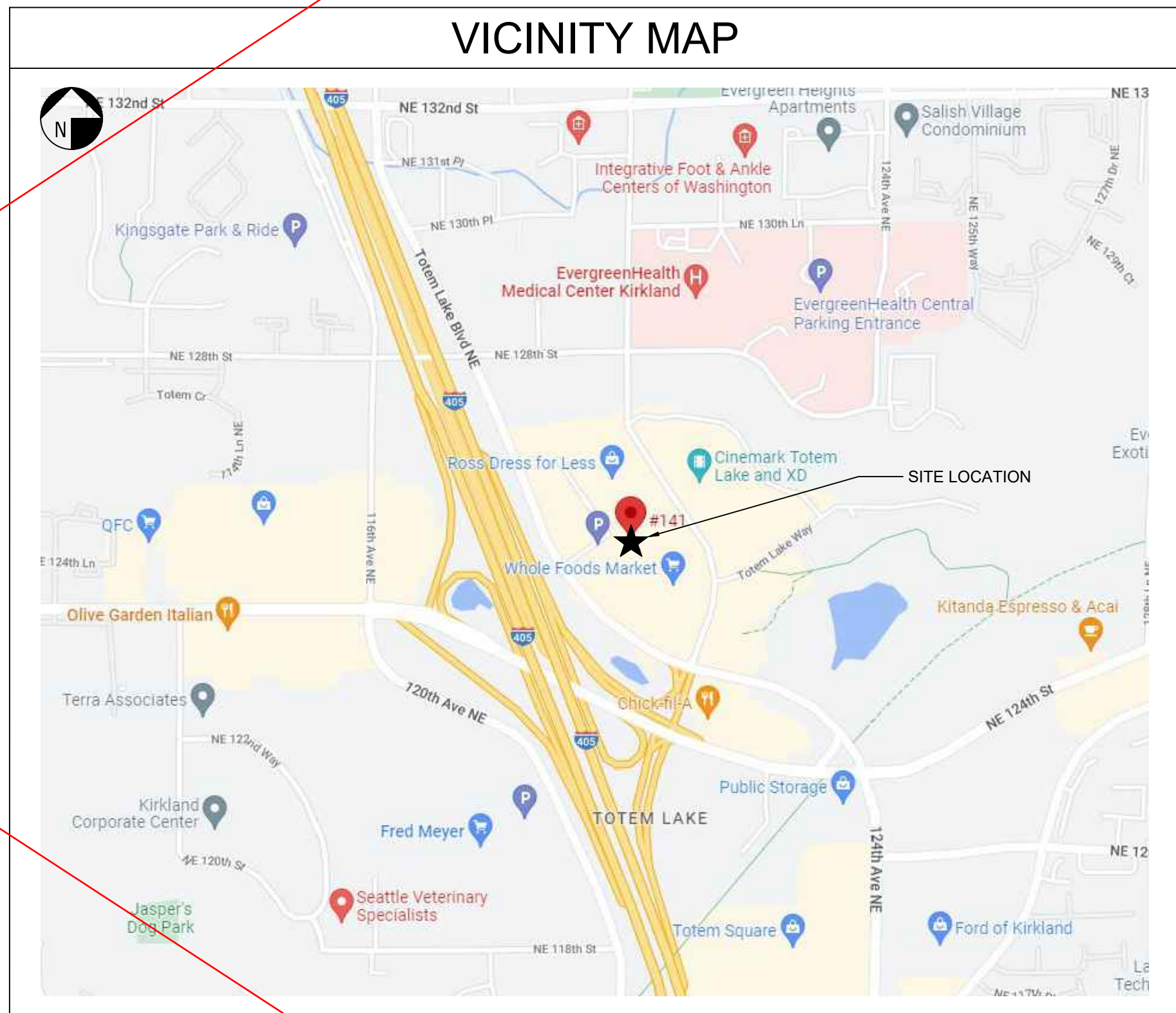
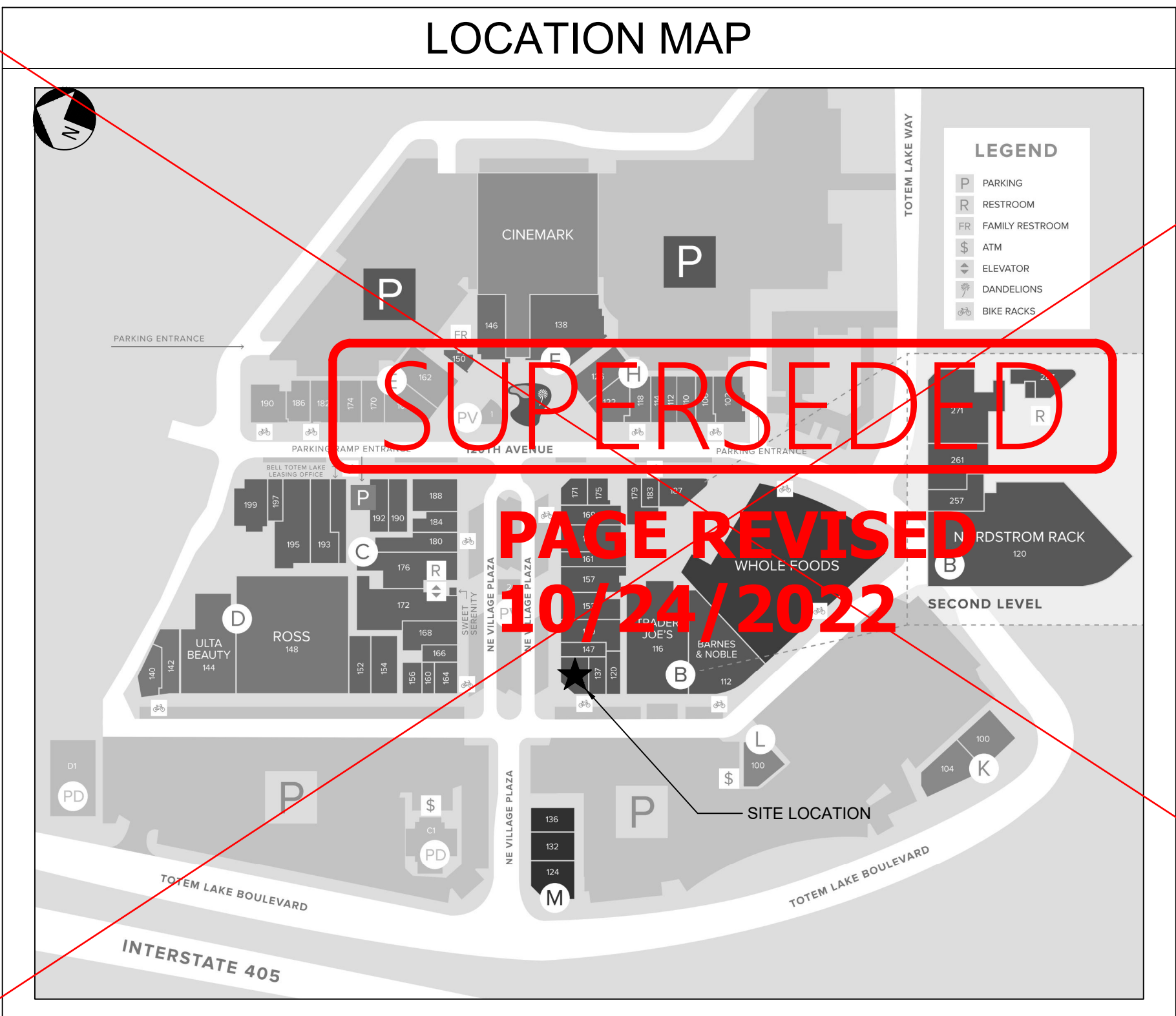
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THE VILLAGE AT TOTEM LAKE

11901 N.E. VILLAGE PLAZA

SUITE #141

KIRKLAND, WA 98034



LANDLORD NOTES CONT.

- TENANTS REQUIRED TO USE LANDLORD SUB-CONTRACTORS FOR REPAIR AND PATCHING. ANY PENETRATIONS OF LANDLORD'S EXTERIOR SKIN SYSTEM MUST BE SEALED IN ACCORDANCE WITH THE REQUIREMENTS OF LANDLORD'S WATERPROOFING CONSULTANT, AT TENANT'S EXPENSE.
- TENANT IS TO PURCHASE AND INSTALL A SENSUS REMOTE-READING AMR-CAPABLE SUB-WATER METER, MEASURING IN SINGLE GALLON INCREMENTS. REFER TO THE TENANT DESIGN MANUAL, SECTION 3.10.2 FOR SPECIFICS. METER IS TO BE LOCATED IN LANDLORD'S DESIGNATED LOCATION. REMOTE READER TO BE LOCATED IN COMMON AREA ELECTRICAL ROOM. TENANT WATER METER IS TO BE INSTALLED WITHIN 2 WEEKS PRIOR TO OPENING.
- IF APPLICABLE, THE TENANT'S CONTRACTOR SHALL CONTACT THE LANDLORD'S TENANT COORDINATOR PRIOR TO MAKING CONNECTIONS TO THE LANDLORD'S SYSTEMS. ALL COSTS ASSOCIATED WITH MAKING CONNECTIONS TO LANDLORD'S BUILDING CONTROLS SHALL BE THE RESPONSIBILITY OF THE TENANT.
- ANY PENETRATION OR MODIFICATIONS TO STRUCTURAL STEEL OR CONCRETE MUST BE COORDINATED AND APPROVED BY THE LANDLORD'S STRUCTURAL ENGINEER. STRUCTURAL REVISIONS ARE TO BE DESIGNED BY THE LANDLORD'S STRUCTURAL ENGINEER AT THE TENANT'S EXPENSE.
- ANY ELECTRICAL, MECHANICAL, PLUMBING, OTHER SERVICE ITEMS, LOUVERS, VAULTS, ACCESS PANELS, ETC. LOCATED ON THE EXTERIOR OF THE TENANT'S SPACE ARE TO BE PRE-APPROVED BY THE LANDLORD AS TO LOCATION AND AESTHETICS. FAILURE TO OBTAIN THE LANDLORD'S APPROVAL FOR ITEMS DEEMED TO BE AESTHETICALLY INAPPROPRIATE WILL RESULT IN THE TENANT BEING REQUIRED TO REMOVE THE OFFENDING ITEM AND THE LANDLORD'S CONTRACTOR SHALL REPAIR ALL IMPACTED SURFACES TO THEIR PRE-EXISTING CONDITION AT THE TENANT'S EXPENSE.
- TENANT SIGNAGE, SHALL BE DESIGNED AND HOOKED UP TO TENANT'S LIGHTING CONTROL PANEL AT TENANT'S EXPENSE. PENETRATION OF LANDLORD'S EXTERIOR FINISHES MUST BE SEALED IN ACCORDANCE WITH THE REQUIREMENTS OF LANDLORD'S WATERPROOFING CONSULTANT, AT TENANT'S EXPENSE.
- THE FIRST 10'-0" INTO EACH TENANT SPACE IS TO REMAIN LIT FOR ONE HOUR AFTER CENTER CLOSING.

SYMBOLS LEGEND

COLUMN INDICATOR & GRID LINE	ROOM NAME/ NUMBER & SQUARE FOOT	FIRE EXTINGUISHER
DOOR TAG	WINDOW TAG	WALL INDICATOR TAG
DOOR NUMBER	WINDOW NUMBER	WALL TYPE NUMBER
DRAWING/ DETAIL NAME	REVISION INDICATOR WITH DELTA TAG	TOILET ROOM ACCESSORY TAG
DETAIL NUMBER	AREA REVISED	NUMBER TO CORRESPONDING NOTES
DETAIL NAME	REVISION NUMBER	
DRAWING SCALE		
SHEET NUMBER		
ELEVATION MARK	NOTE TAG(S)	DOOR(S)
ELEVATION	NUMBER TO CORRESPONDING NOTES	NEW DOOR
REFERENCE POINT		EX. DOOR TO REMAIN
ELEVATION TAG(S)	SECTION TAG(S)	WALL(S)
DIRECTION OF ELEVATION	DIRECTION OF SECTION	EX. WALL TO REMAIN
ELEVATION NUMBER	SECTION NUMBER	EX. WALL TO BE DEMO'D
SHEET NUMBER		
ENLARGED PLAN INDICATOR	FINISH TAG	
DETAIL / PLAN NUMBER	PRODUCT NAME DESIGNATION	
SHEET NUMBER	PRODUCT NUMBER DESIGNATION	

DRAWING INDEX AND ISSUE LIST

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THE VILLAGE AT TOTEM LAKE

11901 N.E. VILLAGE PLAZA, SUITE 141
KIRKLAND, WA 98034

8/4/2022: PCD Approval Stamps on A7 & A9

ELECTRICAL NOT PLAN REVIEWED OR APPROVED. SEPARATE PERMIT REQUIRED

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THIS ENTIRE SET WAS SUPERSEDED BY THE APPROVED PLAN SET THAT IS DATED 10.24.22

DATE: 07/18/2022
DRAWN BY: LGA
PROJECT NO.: 22129
FILE NAME: 22129_The Village at Totem Lake.dwg

COVER SHEET

CS

GRAPHIC SCALE:

BUILDING PROJECT SUMMARY

PROJECT OVERVIEW

PROJECT NAME:

INTERIOR ALTERATIONS FOR BLUEMERCURY - THE VILLAGE AT TOTEM LAKE - KIRKLAND, WA

PROJECT LOCATION:

THE VILLAGE AT TOTEM LAKE
11901 N.E. VILLAGE PLAZA, SUITE 141
KIRKLAND, WA 98034

PROJECT TYPE:
(WSEBC CH. 6)

ALTERATION LEVEL II

PROPOSED USE:

M - MERCANTILE - COSMETICS RETAIL STORE

PREVIOUS USE:

M - MERCANTILE - RETAIL STORE (SWEET SERENITY)

AUTHORITY HAVING JURISDICTION:

CITY OF KIRKLAND
PLANNING AND BUILDING DEPARTMENT

APPLICABLE CODES & REGULATIONS:

2018 WASHINGTON STATE BUILDING CODE (WSBC)
2018 WASHINGTON STATE EXISTING BUILDING CODE (WSEBC)
2018 WASHINGTON STATE MECHANICAL CODE (WSMC)
2018 UNIFORM PLUMBING CODE (UPC)

2020

WASHINGTON CITIES ELECTRICAL CODE WJ/ 2000 NEC UPDATES
2018 WASHINGTON STATE FIRE CODE (WSFC)
2018 WASHINGTON STATE ENERGY CODE (WSEC - COMMERCIAL)
ICC/ANSI A117.1-2009 AMERICAN NATIONAL STANDARD ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

PROJECT NARRATIVE:

THIS PROJECT IS AN INTERIOR ALTERATION TO AN EXISTING TENANT SPACE IN A 2-STORY, FULLY SPRINKLERED, MULTI-TENANT STRUCTURE TO HOUSE A COSMETICS RETAIL OCCUPANCY. THE WORK AREA IS LESS THAN 50% OF THE BUILDING AREA; THEREFORE CLASSIFYING THE WORK AS A LEVEL II ALTERATION PER THE 2018 WSEBC.

THE SCOPE OF WORK INCLUDES THE RECONFIGURATION OF SPACE TO CONSTRUCT NEW SALES AREA AND STOCK AREA; CONSTRUCTION OF ONE (1) NEW TOILET ROOM TO PROVIDE FULL ACCESSIBILITY; MODIFICATIONS AND EXTENSIONS OF EXISTING MEP SYSTEMS AND INSTALLATION OF NEW MECHANICAL EQUIPMENT, AND MODIFICATIONS TO EXTERIOR STOREFRONT SYSTEM.

THE BUILDING IS LOCATED IN A SEISMIC ZONE (SDC: D), AND FLOOD PLAIN, DESIGNATION "X".

SUBSTANTIAL IMPROVEMENT STATEMENT:

SITE LOCATION IS WITHIN BOUNDARIES OF FLOOD HAZARD "ZONE X." SCOPE OF WORK DOES NOT ALTER EXISTING BUILDING FOOTPRINT.
SCOPE OF WORK ~~DOES NOT~~ MEET THE DEFINITION OF A SUBSTANTIAL IMPROVEMENT PER 2018 WSBC, CHAPTER 2.

TENANT WORK AREA IS ONLY 4% OF OVERALL BUILDING AREA. ASSUMED COST OF IMPROVEMENTS DO NOT EQUAL OR EXCEED 50% OF THE MARKET VALUE OF THE STRUCTURE BEFORE IMPROVEMENTS ARE STARTED.

BUILDING DATA:

AGGREGATE BUILDING AREA =
(WSBC CH. 5)

+/- 54,161 SF ACTUAL (EXTG: NO CHANGE)
WHERE A CHANGE OF OCCUPANCY CLASSIFICATION IS MADE TO AN EQUAL OR LESSER-HAZARD CATEGORY, THE HEIGHT AND AREA OF THE EXISTING BUILDING SHALL BE DEEMED ACCEPTABLE PER WSEBC 1011.5.2

TENANT WORK AREA =
(WSEBC CH. 5)

1,983 SF
(1,983 SF / 54,161 SF) x 100
4% OF BUILDING

TENANT LEASABLE AREA =
(PER ANSI/BOMA Z65.1-2010)

1,983 SF

SEISMIC DESIGN CATEGORY =
(ASCE 7)

CATEGORY D
(RISK CATEGORY II; SITE CLASS B)

NO. OF STORIES
(WSBC CH. 5)

3 STORIES ALLOWED
2 ACTUAL (EXTG; NO CHANGE)

BUILDING HEIGHT
(WSBC CH. 5)

75 FEET ALLOWED
+/- 4'-0" ACTUAL (EXTG; NO CHANGE)

OCCUPANCY & USE CLASSIFICATION:
(WSBC CH. 3 & 4)

MERCANTILE GROUP M
COSMETICS RETAIL

CONSTRUCTION CLASSIFICATION:
(WSBC CH. 6)

II-B
(EXTG; NO CHANGE)

EQUIPMENT RATING: MINIMUM RATING FOR ALL ELEMENTS:
(WSBC TABLE 601)

0

EXTERIOR BEARING WALLS

0

EXTERIOR BEARING PARTITIONS

0

FLOOR CONSTRUCTION

0

ROOF CONSTRUCTION

0

EXTERIOR NON-BEARING WALLS & PARTITIONS:
(WSBC TABLE 602)

WALL FACE

SEPARATION DIST.

RATING

SOUTH WEST

X ≥ 30'

0

NORTH WEST

10' ≤ X < 30'

0

NORTH EAST

N/A

0

SOUTH EAST

N/A

0

ALL EXTERIOR WALLS REMAIN THE SAME.
RATING OF EXTG ELEMENTS WILL BE MAINTAINED.

FIRE & SMOKE PROTECTION FEATURES:
(WSBC CH. 7)

MINIMUM DISTANCE OF PROJECTION FROM FSD LINE:
(WSBC TABLE 705.2)

WALL FACE

SEPARATION DIST.

DISTANCE

SOUTH WEST

≥ 5'

40" MIN. PERMITTED;
70" +/- PROVIDED (EXTG: NO CHANGE)

NORTH WEST

≥ 5'

40" MIN. PERMITTED;
26" +/- PROVIDED (EXTG: NO CHANGE)

MAXIMUM AREA OF UNPROTECTED EXT. WALL OPENINGS:
(WSBC 705.8.1, EXCEPTION 2)
UNLIMITED UNPROTECTED OPENINGS PERMITTED (EXTG: NO CHANGE)

INTERIOR FINISHES:
(WSBC CH. 8)

INTERIOR WALL AND CEILING FINISH REQUIREMENTS:
(WSBC TABLE 803.13)

GROUP

INT. EXIT RAMPS,
STAIRWAYS,PASSAGEWAYS

CORRIDORS
& EXIT ENCLOSURES

ROOMS

M, SPRINKLERED

CLASS B

CLASS C

CLASS C

INTERIOR FLOOR FINISH & BASE REQUIREMENTS: CLASS II

DECORATIVE MATERIALS AND TRIM:
NONCOMBUSTIBLE, OR LIMITED TO 10% OF WALL/ CEILING SURFACE

FIRE PROTECTION & LIFE SAFETY SYSTEMS (WSBC CH. 9)

SPRINKLER SYSTEM PROVIDED :
(WSEBC CH. 8, WSBC CH. 9)

REQUIRED; PROVIDED
(EXTG: NO CHANGE)

STANDPIPE SYSTEM PROVIDED:
(WSEBC CH. 8, WSBC CH. 9)

REQUIRED; PROVIDED
(EXTG: NO CHANGE)

FIRE ALARM SYSTEM PROVIDED:
(WSEBC CH. 8, WSBC CH. 9)

REQUIRED; PROVIDED
(EXTG: NO CHANGE)

FIRE EXTINGUISHERS PROVIDED
(WSBC CH. 9)

YES

FIRE EXTINGUISHER REQUIREMENTS:
(WSBC CH. 9, TABLE 906.3 (1))

ORDINARY (MODERATE) HAZARD OCCUPANCY

MIN. RATED SINGLE EXTING

MAX. FLOOR AREA PER "A"

MAX. FLOOR AREA PER EXTING

MAX. TRAVEL DIST. TO EXTING

2-A

1,300 SF

11,250 SF

75'

BUILDING DATA (CONT.):

MEANS OF EGRESS (WSBC CH. 10)

OCCUPANT LOAD:
(WSBC TABLE 1004.5)

MERCANTILE AREAS:

60 GSF / OCCUPANT
1695 SF / 60 SF =

29 OCCUPANTS

BUSINESS AREAS:

150 GSF / OCCUPANT
64 GSF / 150 SF =

1 OCCUPANT

ACCESSORY STORAGE,
MECHANICAL, ETC. :

300 GSF / OCCUPANT
151 SF / 300 SF =

1 OCCUPANT

TOTAL OCCUPANT LOAD =

31 OCCUPANTS

CAPACITY OF MEAN OF EGRESS COMPONENTS OTHER THAN STAIRS):
(WSBC 1005.3.2)

OCC. LOAD x 0.2"
31 OCCS x 0.2" = 6.2 INCHES REQ.
32" MIN. INCHES PROVIDED

EXIT OPENING
(WSBC 1010.1.1)

32" CLEAR MIN. REQ.
32" MIN. PROVIDED

DIRECTION OF SWING:
(WSBC 1010.1.2.1)

NOT REQUIRED TO SWING IN DIRECTION OF EGRESS TRAVEL (LESS THAN 50 OCCUPANTS)

EXIT SIGNS
(WSBC 1013)

PROVIDED AS REQUIRED.

TACTILE EXIT SIGNS:
(WSBC 1013.4)

PROVIDED AS REQUIRED.

COMMON PATH OF EGRESS TRAVEL:
(WSBC TABLE 1006.2.1)

75 FT MAX.
(GROUP M; SPRINKLERED)

EXITS REQUIRED:
(WSBC TABLE 1006.3.3(2))

1 EXIT REQ.; 1 EXIT PROVIDED

EXIT ACCESS TRAVEL DIST:
(WSBC TABLE 1017.2)

250 FT. MAX. (SPRINKLERED)

CORRIDOR FIRE RATING:
(WSBC TABLE 1020.1)

NOT REQ., OCCUPANT LOAD > 30 (SPRINKLERED)

DEAD END CORRIDOR:
(WSBC 1020.4, EXCEPTION 2)

50 FT. MAX. (SPRINKLERED)

ACCESSIBILITY: (WSBC CHAPTER 11)

ACCESSIBLE ROUTE:
(WSBC SECTION 1104)

ACCESSIBLE MEANS OF EGRESS
(WSBC SECTION 1009.1, EXCEPT .1)

ACCESSIBLE ENTRANCE
(WSBC SECTION 1105)

ACCESSIBLE ROUTE PROVIDED (EXTG., NO CHANGE)
ROUTE INCLUDES TOILET ROOMS & EWC. (NEW WORK)
ACCESSIBLE MEANS OF EGRESS NOT REQUIRED.
(1) ACCESSIBLE MEANS OF EGRESS PROVIDED.
(EXTG., NO CHANGE)
ACCESSIBLE ENTRANCE PROVIDED. (EXTG, NO CHANGE)

ACCESSIBILITY - EXISTING FACILITIES

THE WORK OF THIS PROJECT INCLUDES ALTERATION OF AN AREA OF PRIMARY FUNCTION. EXISTING ENTRANCE AND PARKING SPACES ARE ACCESSIBLE AND ACCESSIBILITY WILL BE MAINTAINED.

NEW WORK TO IMPROVE ACCESSIBILITY INCLUDES CONSTRUCTION OF (1) NEW FULLY ACCESSIBLE TOILET ROOM AND INSTALLATION OF (1) NEW DUAL HEIGHT WATER COOLER.

ALL NEW WORK TO BE IN COMPLIANCE WITH ACCESSIBILITY REQUIREMENTS.

PLUMBING FIXTURE COUNT: (UPC TABLE 422.1)

SEPARATE FACILITIES: IN MERCANTILE OCCUPANCIES WITH A TOTAL OCCUPANT LOAD OF 50 OR LESS INCLUDING CUSTOMERS AND EMPLOYEES, ONE TOILET FACILITY, DESIGNED FOR USE BY NO MORE THAN ONE PERSON AT A TIME, SHALL BE PERMITTED FOR USE BY BOTH SEXES.

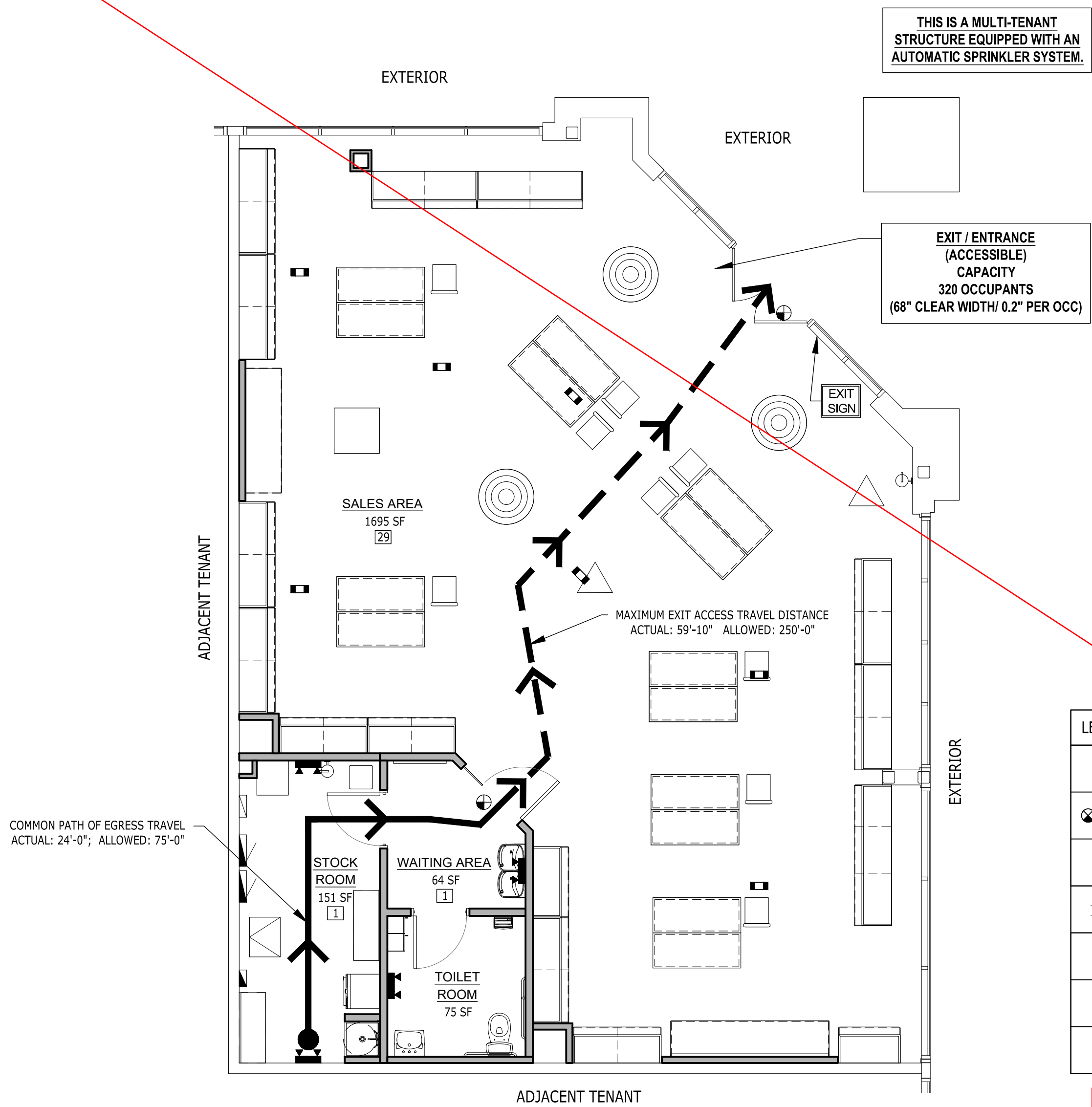
1 NEW FULLY ACCESSIBLE, SINGLE-USE TOILET ROOM PROVIDED.

DRINKING FOUNTAIN /WATER COOLERS:

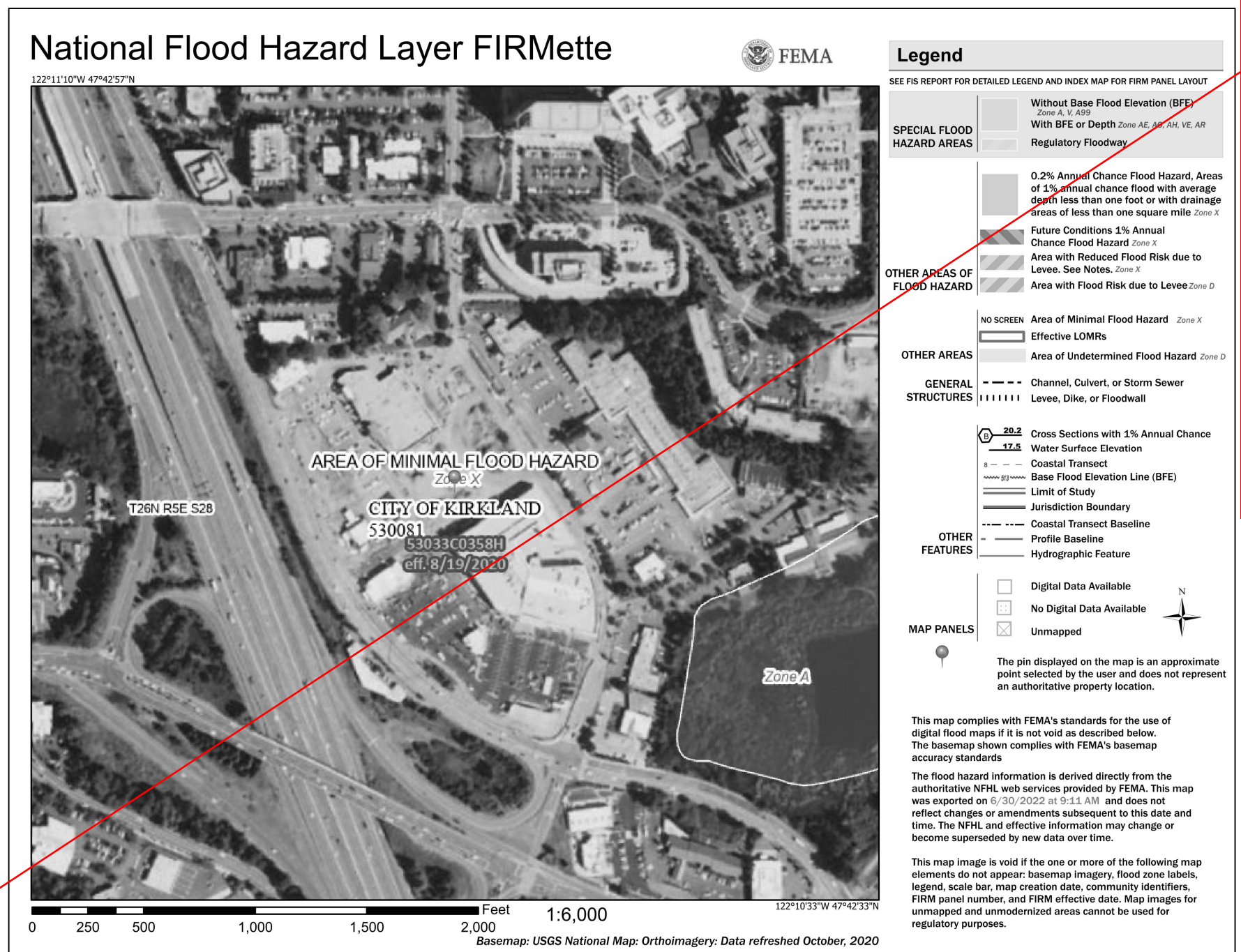
1 HI-LOW REQ. PER 250 OCCS.
1 HI-LOW PROVIDED (NEW WORK)

SERVICE SINK:

1 REQ.; 1 PROVIDED (NEW WORK)



SCALE: 3/16" = 1'-0"



FEMA FLOOD ZONE 'X' - AREA OF MINIMAL FLOOD HAZARD

DEFERRED SUBMITTALS:
DRAWINGS, CALCULATIONS AND
PRODUCT DATA FOR THE DESIGN AND
FABRICATION OF ITEMS THAT ARE
DESIGNED BY OTHERS SHALL BE
SUBMITTED TO THE EOR FOR APPROVAL
PRIOR TO SUBMITTING TO THE BUILDING
DEPARTMENT FOR REVIEW AND PRIOR
TO FABRICATION.

**ELECTRICAL NOT
PLAN REVIEWED OR
APPROVED.
SEPARATE PERMIT
REQUIRED**

SEPARATE PERMITS REQUIRED:

Add Permit Number Below:

Mechanical: MNR22-06797

Plumbing: PNR22-06798

Electrical:

Fire Sprinklers:

Fire Alarm:

Signs:

LEGEND	
	PATH OF TRAVEL
 	EXIT SIGN LOCATION
F.E. 	FIRE EXTINGUISHER
	FIRE RATED WALL (WHERE PROVIDED)
	EMERGENCY LIGHTING WALL PACK
 	CODE REQUIRED SIGNAGE (SEE DWG. G-002 FOR TYPES & DETAILS)
	OCCUPANT LOAD

2018 WSEC C405.2.6 Exterior Lighting Controls
Exterior lighting systems shall be provided with controls that comply with C405.2.6.1 through C405.2.6.4. Decorative lighting systems shall comply with sections C405.2.6.1, C405.2.6.2, and C405.2.6.4.

~~**C405.2.6.1Daylight shutoff.** Lights shall be configured to automatically turn off when daylight is present and satisfies the lighting needs.~~

C405.2.6.2 Facade and landscape lighting shutoff. Building facade and landscape lighting shall be configured to automatically shut off for a minimum of 6 hours per night or from not later than one hour after business closing to not earlier than one hour before business opening, whichever is less.

C405.2.6.3 Lighting setback. Lighting that is not controlled in accordance with Section C405.2.6.2 shall be controlled so that the total wattage of such lighting is automatically reduced by

not less than 30 percent by selectively switching off or dimming luminaires at one of the following times: 1)Midnight 6am; 2)One hour after closing to one hour before business opening; 3)When no activity has been detected for 15 minutes.

C405.2.6.4 Exterior time switch control functions. Time switch controls for exterior lighting shall comply with the following: 1) Have a clock capable of being programmed for days; 2) Be capable of being set for seven different day type per week; 3) Incorporate an automatic holiday setback feature; 4) Have program backup capabilities that prevent the loss of program and time settings for at least 10hrs if power is interrupted.

DAYLIGHT RESPONSIVE CONTROLS SHALL BE INSTALLED PER WSEC C405.2.4, C405.2.4.1 & C405.2.4.1.1.

**OCCUPANCY SENSOR CONTROLS
SHALL BE INSTALLED PER WSEC
C405.2.1**

**CONTROLLED RECEPTACLES
SHALL BE INSTALLED PER
WSEC C405.10**

DRAWING LOCATION: N:\bluemercury\2022 Stores\22129 - The Village at Totem Lake - Kirkland, WA - REVIT-CADD\22129 - The Village at Totem Lake.dwg

PRINT DATE & TIME: July 18, 2022 - 5:05 pm

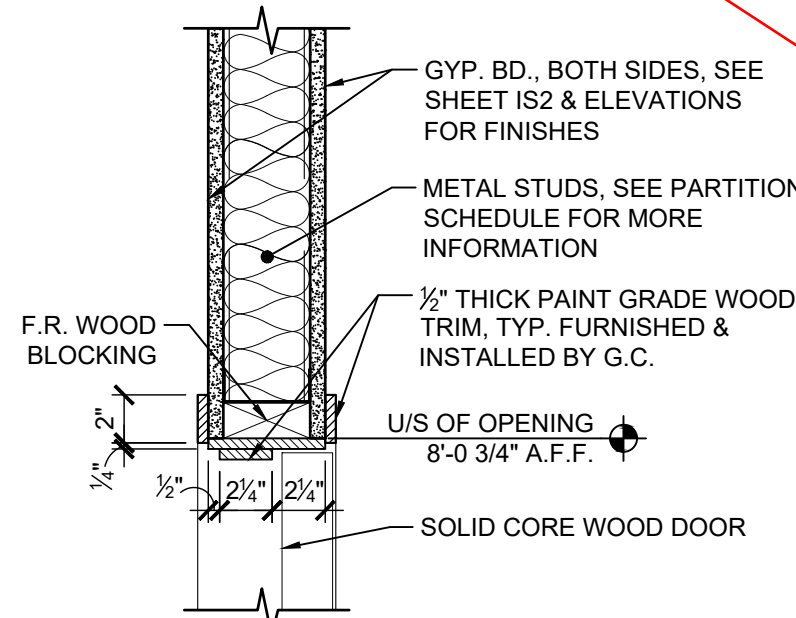
RESPONSIBILITY SCHEDULE													
						EXISTING	NOT APPLICABLE	LANDLORD FURNISH	LANDLORD INSTALL	bluemercury VENDOR FURNISH	bluemercury VENDOR INSTALL	GENERAL CONTRACTOR FURNISH	GENERAL CONTRACTOR INSTALL
REMARKS						EXISTING	NOT APPLICABLE	LANDLORD FURNISH	LANDLORD INSTALL	bluemercury VENDOR FURNISH	bluemercury VENDOR INSTALL	GENERAL CONTRACTOR FURNISH	GENERAL CONTRACTOR INSTALL
GENERAL						MECHANICAL - REFER TO MECHANICAL SHEETS FOR ADDITIONAL INFORMATION							
BUILDING PERMIT/ FEES													
OTHER PERMITS, FEES, INSURANCE													
TRASH REMOVAL & DUMPSTER (FOR OPERATIONS)													
TRASH REMOVAL & DUMPSTER (FOR DEMO AND DEBRIS REMOVAL)													
CONCRETE SLAB - STRUCTURAL													
TEMPORARY BARRICADES													
WINDOW GRAPHICS													
CLEAN-UP & FINAL CLEANING													
STOREFRONT													
DEMOLITION													
BUILDING SHELL & LANDLORD BULKHEAD													
CONCRETE CURB & REINFORCING													
STOREFRONT DOORS AND HARDWARE													
STOREFRONT SYSTEM													
STOREFRONT GLASS													
FIRE RATED WOOD BLOCKING													
FRAMING, SHEATHING & INSULATION													
STOREFRONT SIGN ASSEMBLY													
BLADE SIGN & HARDWARE													
SAFETY LOGO VINYL GRAPHICS													
STOREFRONT AWNING FABRIC AND FRAME													
WINDOW FILM (WF-1)													
GENERAL CONSTRUCTION													
DEMOLITION													
CONCRETE SLAB													
CONCRETE PATCHING/LEVELING													
TRENCHING OF EXISTING SLAB													
DEMISING PARTITION STUDS													
DEMISING PARTITION GYP. BD.													
FIRE SPRAY													
FIRE STOPPING													
CARPENTRY, ROUGH, & FINISH													
BLOCKING & METAL STRAPPING													
SOUND INSULATION													
INTERIOR PARTITION GYP. BD., METAL STUDS, FURRING, ETC.													
GYPSUM BOARD CEILING & APPLICABLE FRAMING/ SUSPENSION													
ACCESS PANELS													
ACOUSTICAL CEILING PANELS & SUSPENSION SYSTEM													
DOORS, FRAMES & HARDWARE													
MIRRORS & MASTICS													
PRIMER, PAINT & PAINTING													
FLOOR PREPARATION: INCLUDING FLOATING IF NECESSARY													
FLOOR PROTECTION: INCLUDING CLEANING/ SEALING/ WAXING													
BUILDING SIDEWALK													
TENANT SLATE TILE FLOORING & SEALANT													
TENANT PORCELAIN TILE FLOORING													
TENANT GROUT													
WALK-OFF MAT(S)													
VINYL PLANK FLOORING, REQUIRED ADHESIVE & SEALANT													
VCT FLOORING, REQUIRED ADHESIVE, & SEALANT													
REDUCER STRIP ADHESIVES, ETC.													
FLOOR TRANSITION STRIPS													
4" WOOD WALL BASE: B-1													
4" WALL BASE: B-2 (VENDOR TO PAINT P-7)													
VINYL BASE: B-3													
FIBERGLASS REINFORCED PANELS (FRP-1)													
TOILET ROOM ACCESSORIES													
TOILET ROOM CERAMIC TILE (CT-1) AND GROUT (GR-4)													
FIRE EXTINGUISHERS													
A.D.A. SIGNAGE @ TOILET ROOM(S)													
UNISTRUT, THREADED ROD, AIRCRAFT CABLE & CONNECTIONS													
EXPANSION JOINTS													
OXYGEN CONCENTRATOR													
WATER HEATER PLATFORM													
FIXTURES													
SALES AREA MILLWORK/FIXTURES & HARDWARE													
BACKWRAP													
CASH REGISTERS, PRINTERS & EQUIPMENT													
CHAIRS													
LOCKERS													
MAKEUP ROOM CABINET													
WINDOW DISPLAY RAILS													
STOCK ROOM SHELVING													
STACKABLE WASHER/DRYER & STACKING KIT													
WOOD MIRROR FRAMES (VENDOR TO PAINT P-7)													
WOOD DOOR MILLWORK TRIM													

BRANNING LOCATION: N Bluemercury0202 Storew22129 - The Village at Totem Lake - Kirkland, WA... REVIT-CADD22129_The Village at Totem Lake.dwg
PRINT DATE & TIME: July 18, 2022 - 2:55 pm

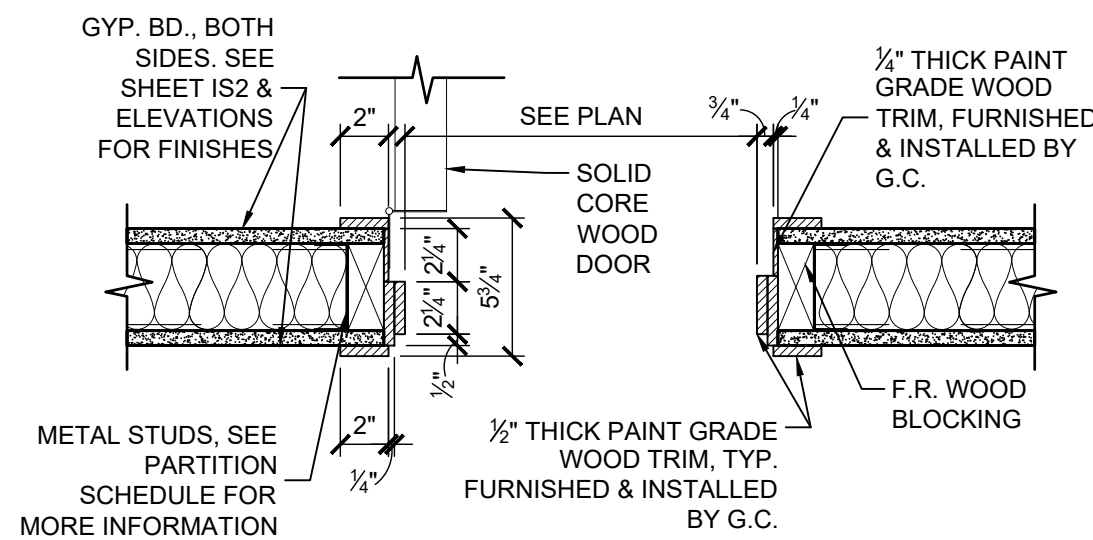
LONG LEAD TIME ITEMS

*THE FOLLOWING ITEMS ARE KNOWN TO HAVE LONG LEAD TIMES. IT SHALL BE THE G.C.'S RESPONSIBILITY TO ORDER ALL ITEMS, NOT JUST THOSE LISTED HERE, IN A TIMELY MANNER. G.C. TO CONTACT BLUEMERCURY PROJECT MANAGER PRIOR TO THE START OF CONSTRUCTION TO CONFIRM ALL VENDOR SUPPLIED ITEMS AND INSTALLATION AND SCHEDULE.

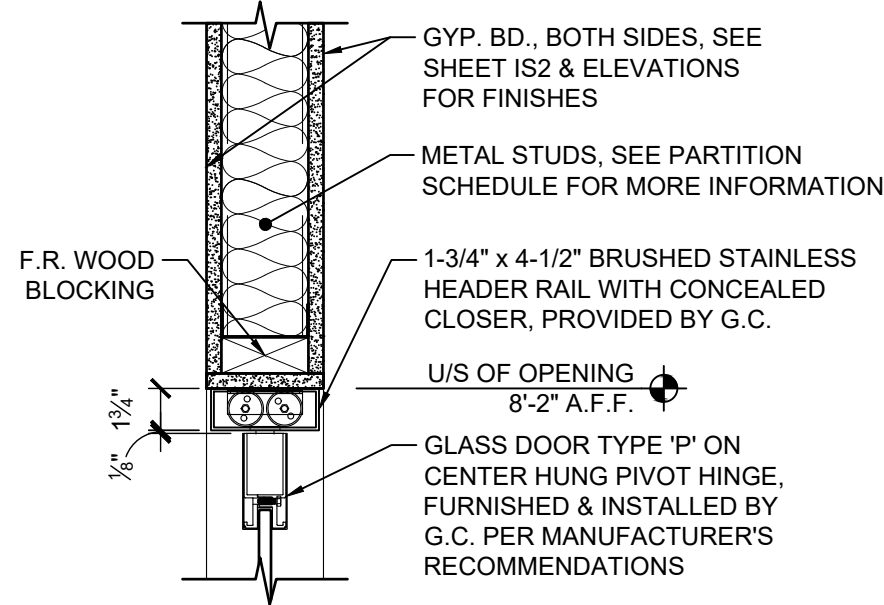
- GLASS DOOR TYPE 'A' - 4-6 WEEK LEAD TIME
- DOOR TYPE 'B' - 4-6 WEEK LEAD TIME
- LIGHTING PACKAGE
- BOSCH WASHER / DRYER & STACKING KIT
- PLUMBING FIXTURES & FAUCETS
- TILE FLOORING (S-1)
- ELMES DOOR HANDLES (WITH CUSTOM HOLE PATTERNS)



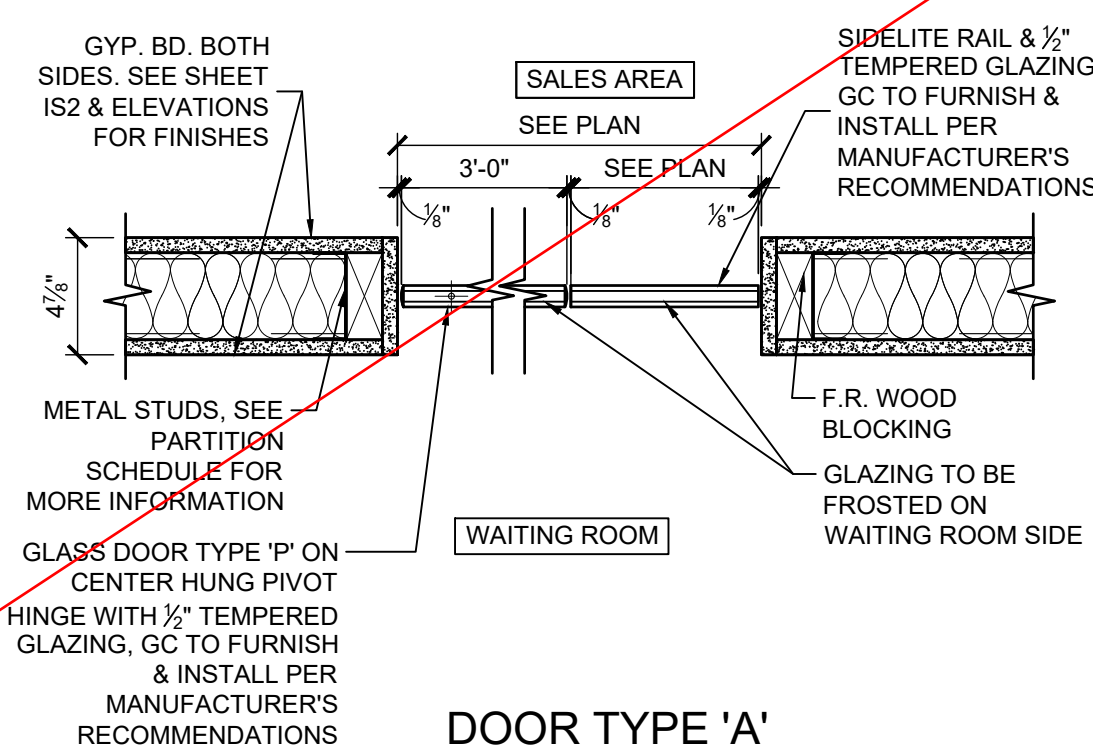
DOOR TYPE 'B' HEADER FRAMING
SCALE: 1 1/2" = 1'-0"



DOOR TYPE 'B' PLAN SECTION
SCALE: 1 1/2" = 1'-0"



DOOR TYPE 'A' HEADER FRAMING
SCALE: 1 1/2" = 1'-0"



DOOR TYPE 'A' PLAN SECTION
SCALE: 1 1/2" = 1'-0"

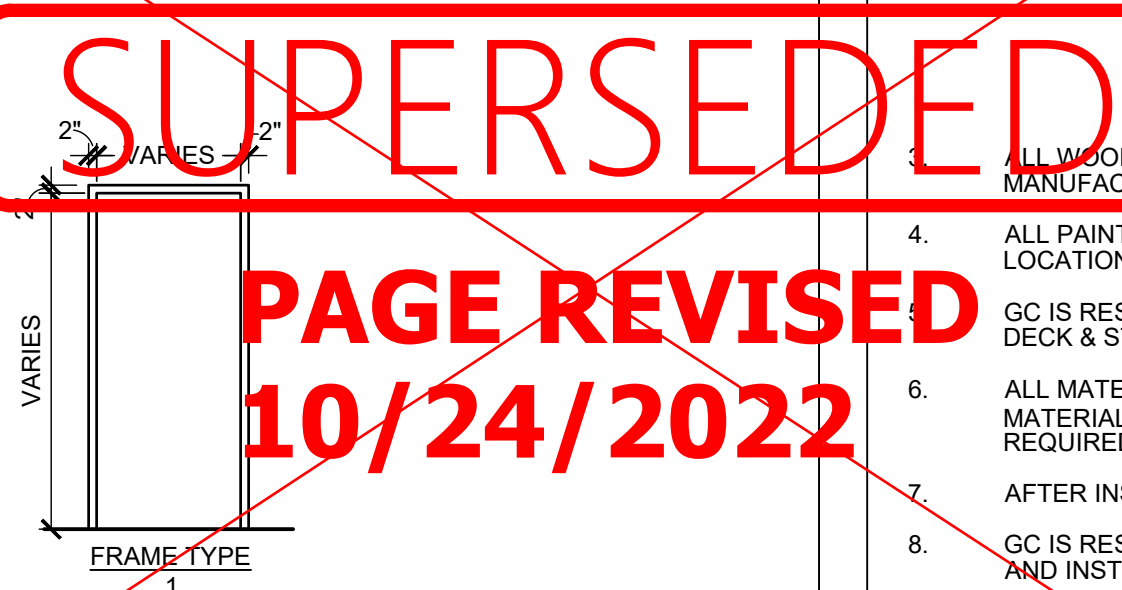
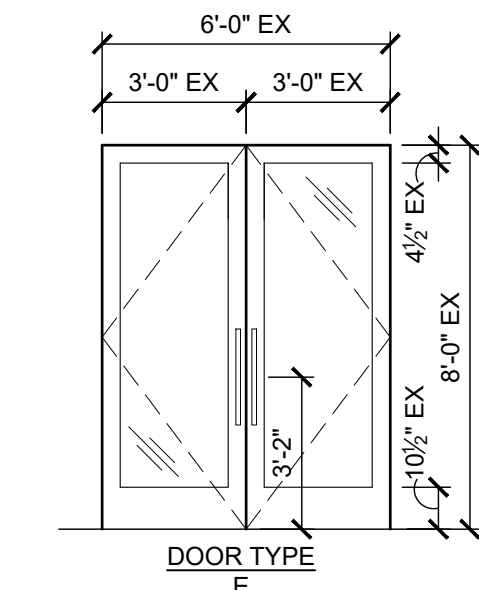
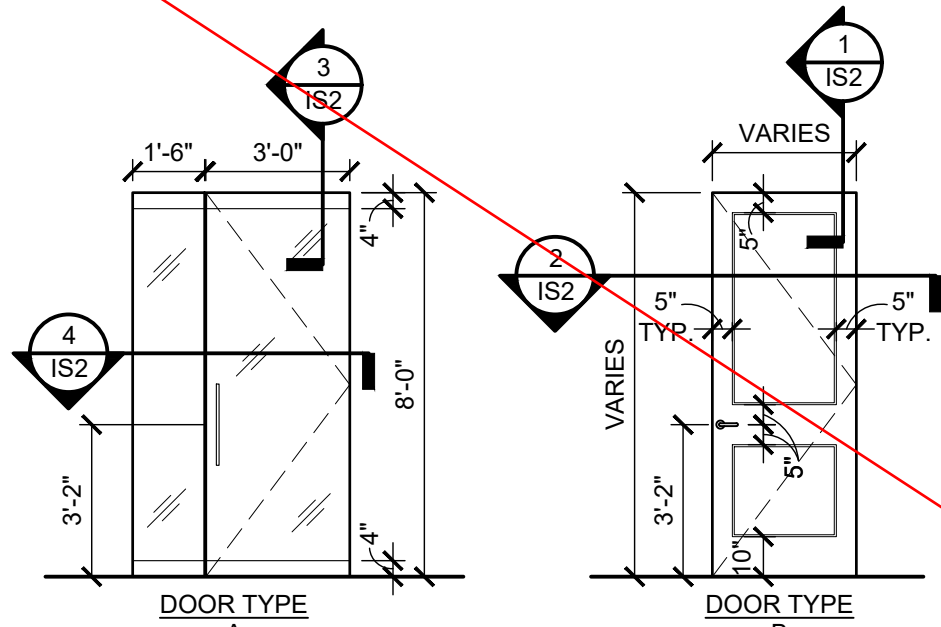
DOOR SCHEDULE

DOOR #	DOORS						FRAME			RATING	HDW SET	REMARKS
	TYPE	MATL	FIN	WIDTH	HEIGHT	THICK	TYPE	MATL	FIN.			
1	E	GL-EX	GL-EX	(2) 3'-0"	8'-0"	EX	EX	ALUM	EX	--	1	(1) PR. EXISTING 3'-0" x 8'-0" ENTRY DOORS *
2	A	GL	GL-3	3'-0"	8'-0"	--	--	--	--	--	2	GLASS (GL-3) ON SECOND SURFACE FROSTED ON WAITING AREA SIDE OF DOOR / FURNISHED & INSTALLED BY GC ***
3	B	WD	P-2	3'-0"	8'-0"	1 1/2"	1	WD	P-2	--	4	DOOR & FRAME TO GET FOUR COATS OF PAINT AS SPECIFIED FURNISHED & INSTALLED BY GC **
4	B	WD	P-2	3'-0"	8'-0"	1 1/2"	1	WD	P-2	--	5	DOOR & FRAME TO GET FOUR COATS OF PAINT AS SPECIFIED FURNISHED & INSTALLED BY GC **

ALL DOORS TO RECEIVE NEW HARDWARE AS SPECIFIED

- * GC TO INSPECT, REPAIR, AND/OR REPLACE AS REQUIRED FOR PROPER WORKING ORDER.
- ** SEE 1/IS2 & 2/IS2 FOR TRIM DETAILS AT DOOR FRAME & HEADER. MARSHFIELD SIGNATURE SERIES SOLID CORE PAINT GRADE DOOR w/ APPLIED MOLDING PROFILE PJFWM163-BASE CAP (BOTH SIDES EXCEPT ON STOCK ROOM SIDE) - TAPERED SIDE OUTSIDE AND BLUNT PART ON INSIDE
- *** SEE 3/IS2 & 4/IS2 FOR DOOR FRAME & HEADER DETAILS.

DOOR/FRAME TYPES



DOOR HARDWARE LEGEND

*GC TO FURNISH & INSTALL ALL DOOR HARDWARE, UNLESS NOTED OTHERWISE.
*ALL LOCKSETS TO HAVE SCHLAGE 6 PIN 2 WAY LOOKS KEYED TO BUILDING'S MASTER KEY SYSTEM.

1. ALL EGRESS DOORS SHALL BE OPERABLE FROM THE DIRECTION OF EXIT TRAVEL WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. ALL HAND-ACTIVATED DOOR OPENING, U.N.O., SHALL BE INSTALLED AT 38" AFF. LATCHING & LOCKING DOORS SHALL BE OPERATED WITH A SINGLE EFFORT BY LEVER HARDWARE, PANIC BAR, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT THE ABILITY TO GRASP.

2. MAXIMUM EFFORT TO OPERATE A DOOR SHALL NOT EXCEED 8 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS. SUCH EFFORT SHALL BE APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE FOR SLIDING DOORS. AT FIRE DOORS, MAXIMUM EFFORT SHALL BE INCREASED TO 15 POUNDS.

3. ALL REQUIRED EXIT DOORS ARE TO BE 45 MINUTE LABELED ASSEMBLIES W/ TIGHT FITTING SMOKE GASKETS & SELF CLOSURES.

4. ALL GLASS DOORS & SIDELITES SHALL BE TEMPERED SAFETY GLASS.

5. G.C. TO PROVIDE TACTILE EXIT SIGN STATING 'EXIT' AND MOUNT NEXT TO EXITS AS REQUIRED BY BUILDING INSPECTOR TO COMPLY WITH ICC A117.1.

HARDWARE SET 1:
GC TO REPLACE DOOR PULLS. G.C. TO INSPECT AND ENSURE ALL HARDWARE IS FULLY FUNCTIONAL AND IN LIKE NEW CONDITION. REPLACE ANY DAMAGED PARTS WITH EXACT REPLACEMENT, U.N.O. G.C. TO FURNISH AND INSTALL NEW LOCKING DEVICES. EXISTING CLOSERS TO REMAIN, IF CLOSERS ARE NOT CAPABLE OF A 105 DEGREE HOLD OPEN, G.C. TO REPLACE, IN KIND, FOR A 105 DEGREE HOLD OPEN.

+ PAIR OF 24" BACK TO BACK ELMES T7280-01-001 STANDARD CONTEMPORARY. L23-518 (600). POLISHED SS FINISH
+ (1)EA. SCHLAGE, SINGLE CYLINDER DEADBOLT B60 619
+ (2)EA. ASSA ABLOY, ROCKWOOD 461 OR 461L. G.C. TO VERIFY SIDEWALK ELEVATION IN FIELD FOR EXACT DOOR STOP TO BE ORDERED.

NOTE: GC TO ENSURE THUMB CYLINDER IS ACCEPTABLE BY LOCAL BUILDING INSPECTOR.

HARDWARE SET 2:
CRL DRY GLAZE FRAMELESS GLASS DOOR KIT. TYPE 'P' DOOR & SIDELITE WITH 4" HIGH FULL WIDTH TOP AND 4" TAPERED BOTTOM RAILS (FINISH: BRUSHED STAINLESS). FLOATING HEADER (FINISH: BRUSHED STAINLESS) WITH CONCEALED HYDRAULIC CLOSER - 90 DEGREE HOLD OPEN.

+ (2)EA. CRL 8010DP CENTER HUNG TWO-WAY PIVOT HINGES
+ PAIR OF 24" BACK TO BACK ELMES G7280-01-001 STANDARD CONTEMPORARY. L23-518 (600). POLISHED SS FINISH
+ (1)EA. CRL 20104M20 JACKSON OVERHEAD CLOSER, SPRING POWERED MULTI SIZE 90° HOLD OPEN
+ (1)EA. CRL 8010AS CLOSER ARM
+ (1)EA. CRL 8010FS MOUNTING CLIP
+ (1)EA. DOOR STOP: HOME DEPOT - EVERBILT, MODEL 15054, SATIN CHROME LO-RISE DOORSTOP - G.C. TO INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS

*NOTE: COMPLETE DOOR KITS CAN BE CREATED AND ORDERED THROUGH CRL (800) 421-6144

HARDWARE SET 4:
+ (4)EA. SPRING HINGES - MCKINNEY MACPRO ADJUSTABLE MPS60, 4 1/2" x 4 1/2", US26D
+ (1)EA. SCHLAGE PRIVACY AL10S-NEP 2 1/2" ASA 626
+ (1)EA. DOOR STOP: HOME DEPOT - EVERBILT, MODEL 15054, SATIN CHROME LO-RISE DOORSTOP - GC TO INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS

HARDWARE SET 5:
+ (4)EA. SPRING HINGES - MCKINNEY MACPRO ADJUSTABLE MPS60, 4 1/2" x 4 1/2", US26D
+ (1)EA. SCHLAGE PASSAGE AL40S-NEP 2 1/2" ASA 626
+ (1)EA. HOME DEPOT - UNIVERSAL HARDWARE HEAVY-DUTY ALUMINUM COMMERCIAL DOOR CLOSER

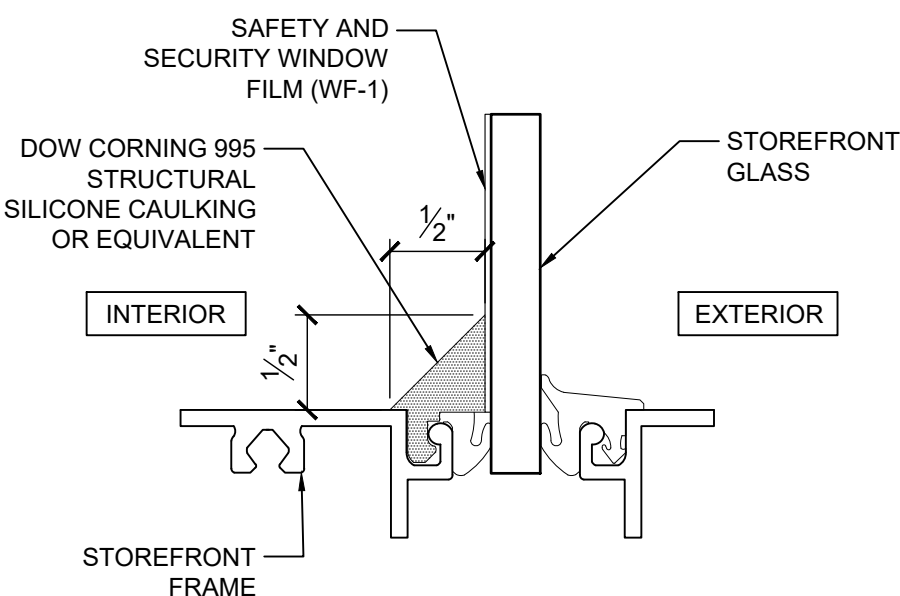
FINISH SCHEDULE

MARK	MATERIAL	MANUFACTURER	TYPE/COLOR	NOTES
B-1	WOOD BASE	LEIDEN CABINET COMPANY	4" STRAIGHT WOOD BASE	WOOD BASE IN WAITING AREA; GC TO PAINT P-2 SEMIGLOSS, SEE FINISH NOTE #9
B-2	WOOD BASE	LEIDEN CABINET COMPANY	4" STRAIGHT WOOD BASE	WOOD BASE IN SALES AREA; VENDOR TO PAINT P-7 SEMIGLOSS, FURNISHED BY BLUEMERCURY VENDOR
B-3	VINYL BASE	ARMSTRONG	23 - MLK	4" HIGH BASE IN STOCK ROOM; INSTALL PER MANUFACTURER'S INSTRUCTIONS
CT-1	WALL TILE	DALTILE	3" x 6" RITTENHOUSE SQUARE WALL TILE-ARCTIC WHITE 0190	INSTALLED 4'-0" HIGH ON TOILET ROOM WALLS TO PROVIDE A HARD, NONABSORBENT MATERIAL USING WATER RESISTANT BACKING BOARD, GLOSS FINISH, USE GROUT GR-4
FRP-1	FIBERGLASS REINFORCED PANELS	MARLITE	WHITE: P-100	4'-0" HIGH FRP PANELS BY GC
GL-EX	EXISTING GLASS	---	EXISTING GLASS	--
GL-1	GLASS	---	1" CLEAR TEMPERED	INSULATION GLASS, SEE SPECIFICATIONS ON SHEET A10
GL-2	MIRROR	---	---	1/2" MIRRORED GLASS W/ MACHINE POLISHED EDGES
GL-3	FROSTED GLASS	---	1/2" TEMPERED - FROSTED ONE SIDE	BUTT JOINTS WITH POLISHED EDGES; WAITING AREA SIDE TO BE FROSTED
GR-1	GROUT	CUSTOM BUILDING PRODUCTS	PRISM SURECOLOR GROUT #386 - OYSTER GRAY	SLATE FLOORING GROUT - GROUT TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. GC TO CLEAN/SEAL FLOOR UPON COMPLETION. 3/16" GROUT JOINT, UNO
GR-4	GROUT	CUSTOM BUILDING PRODUCTS	POLYBLEND NON-SANDED GROUT #381 - BRIGHT WHITE	TOILET ROOM WALL TILE GROUT - GROUT TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. GC TO CLEAN/SEAL WALL UPON COMPLETION. 1/16" GROUT JOINT
P-1	PAINT	BENJAMIN MOORE	OC-21 WINTER WHITE	SALES AREA FIELD PAINT - EGGSHELL FINISH; SEE FINISH NOTE #10
P-2	PAINT	BENJAMIN MOORE	OC-152 SUPER WHITE	ALL GYP. BD. CEILINGS - FLAT FINISH DOORS, FRAMES & BASE B-1 - SEMIGLOSS FINISH; SEE FINISH NOTE #10
P-3	PAINT	BENJAMIN MOORE	S1 - 0X 5.5000 B1 - 0X 8.2500 G1 - 0X 13.1250	ACCENT WALLS - EGGSHELL FINISH; SEE FINISH NOTE #10
P-4	PAINT	BENJAMIN MOORE	S1 - 0X 0.5000 W1 - 0X 30.5000 B1 - 0X 0.5000 G1 - 0X 0.7500	WAITING ROOM FIELD PAINT- EGGSHELL FINISH; TOILET ROOM FIELD PAINT- SEMIGLOSS FINISH; SEE FINISH NOTE #10
P-5	PAINT	BENJAMIN MOORE	SUPER WHITE	STOCK ROOM FIELD PAINT - SEMIGLOSS FINISH; SEE FINISH NOTE #5
P-7	PAINT	BENJAMIN MOORE	OC-62 BABY'S BREATH	WOOD BASE B2 AND WOOD MIRROR TRIM FOR MIRROR M2 - SEMIGLOSS FINISH
S-1	SLATE TILE	DALTILE NATURAL STONE	CALIFORNIA GOLD - 12" x12" NATURAL CLEFT GAUGED	WAITING AREA & TOILET ROOM: TO BE INSTALLED PER MANUFACTURER INSTRUCTIONS. GROUT GR-1 W/ 3/16" GROUT JOINT. SEE FINISH NOTE #12 FOR SEALANT.
VCT-1	VINYL COMP TILE	ARMSTRONG EXCELON	#51911 CLASSIC WHITE	12" x 12" TILES; STOCK ROOM
VNL-1	VINYL FLOORING	ASI FLOORING	CERUSSA LUXURY VINYL FLRMD051 - 7"X48"	SALES AREA VINYL FLOORING; TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS; HERRINGBONE PATTERN, USING RECOMMENDED ADHESIVE; FURNISHED BY VENDOR
WF-1	WINDOW FILM	LLUMAR	SCL SR PS8 (CLEAR)	FURNISHED & INSTALLED BY GC, SEE FINISH NOTE #11 AND DETAIL 5/IS2.

FINISH NOTES

- ALL INTERIOR WALL AND CEILING FINISHES SHALL BE IN ACCORDANCE WITH CURRENT STATE AND LOCAL BUILDING CODES. THE GC SHALL PROVIDE ALL FLAME SPREAD AND SMOKE DENSITY RATINGS FOR FINISH MATERIALS TO THE BUILDING DEPARTMENT AS REQUIRED.
- ALL INTERIOR WALL AND CEILING FINISHES SHALL MEET THE FOLLOWING SPECIFICATIONS:

TENANT SIDE	WALLS & CEILINGS
A. CLASS 'O' FLAME	76 TO 200 MAX
B. SMOKE DENSITY RATING	450 MAX
- ALL WOOD MUST BE CLASS 'A' FIRE RATED NON-COMBUSTIBLE MATERIAL AND ALL WOOD FIXTURE MUST BE CLASS 'A' STAMPED OR FURNISH MANUFACTURER'S CERTIFICATION.
- ALL PAINTED SURFACES TO RECEIVE ONE (1) PRIME COAT AND TWO (2) FINISH COATS, UNO. SEE FINISH SCHEDULE FOR PAINT FINISH TYPES AND LOCATIONS.
GC IS RESPONSIBLE FOR PAINTING THE NON-RETAIL AREA WALLS UP TO 12'-0" A.F.F. IF NO CEILING IS SPECIFIED IN THE NON-RETAIL AREA, GC TO LEAVE DECK & STRUCTURE ABOVE UNPAINTED.
- ALL MATERIALS INSTALLED SHALL BE A MINIMUM OF CLASS II; EXCEPT ALL MATERIALS INSTALLED ON THE STOREFRONT SHALL BE A MINIMUM OF CLASS I. MATERIALS NOT MEETING THE CLASS MINIMUMS, SHALL BE COVERED WITH A COATING OF NOT LESS THAN 1/8" THICK THAT IS FIRE RATED FOR THE REQUIRED CLASSIFICATION.
- AFTER INSTALLATION OF ALL FIXTURES, GC TO TOUCH UP ANY SURFACES THAT MAY BE DAMAGED.
- GC IS RESPONSIBLE FOR PROVIDING A LEVEL CONCRETE SLAB PRIOR TO FLOOR INSTALLATION. GC MUST FOLLOW MANUFACTURER RECOMMENDATIONS AND INSTRUCTIONS FOR SUITABLE SUBSTRATES, FLOOR PREPARATION, AND APPLICATION.
- ALL VENDOR PROVIDED 4" WOOD BASE TO BE SCRIBED TO FLOOR TO MATCH DIMENSIONS ON PLANS. GC TO PAINT WALL BASE AS INDICATED IN FINISH SCHEDULE. SEE FINISH PLAN AND INTERIOR ELEVATIONS FOR WALL BASE LOCATIONS.
- PRIOR TO PAINTING, GC TO ENSURE THE GYP. BD. (NEW AND EXISTING) IS FINISHED WITH A LEVEL 5 FINISH AS PER THE GYPSUM ASSOCIATION, GA214 "RECOMMENDED LEVELS OF GYPSUM BOARD FINISH".
- WINDOW FILM APPLIED TO THE INSIDE OF THE STOREFRONT GLASS. SPECIFIED FILM IS RATED TO BLOCK 99.9% ULTRA VIOLET LIGHT AND 39% SOLAR HEAT. G.C. TO PROVIDE SUBMITTAL PRIOR TO INSTALLATION. ALTERNATIVES WILL NOT BE ACCEPTED.
- FOR SEALING THE FLOOR TILE (S-1), THE G.C. IS TO FURNISH & INSTALL BEHR PREMIUM COATINGS, WET-LOOK SEALER, FOUR COATS APPLIED FOR A WET LOOK FINISH.



WINDOW FILM DETAIL
SCALE: 1" = 1'-0"

bluemercury

THE VILLAGE AT
TOTEM LAKE

11901 N.E. VILLAGE
PLAZA, SUITE 141
KIRKLAND, WA 98034

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NO.	DATE	DESCRIPTION
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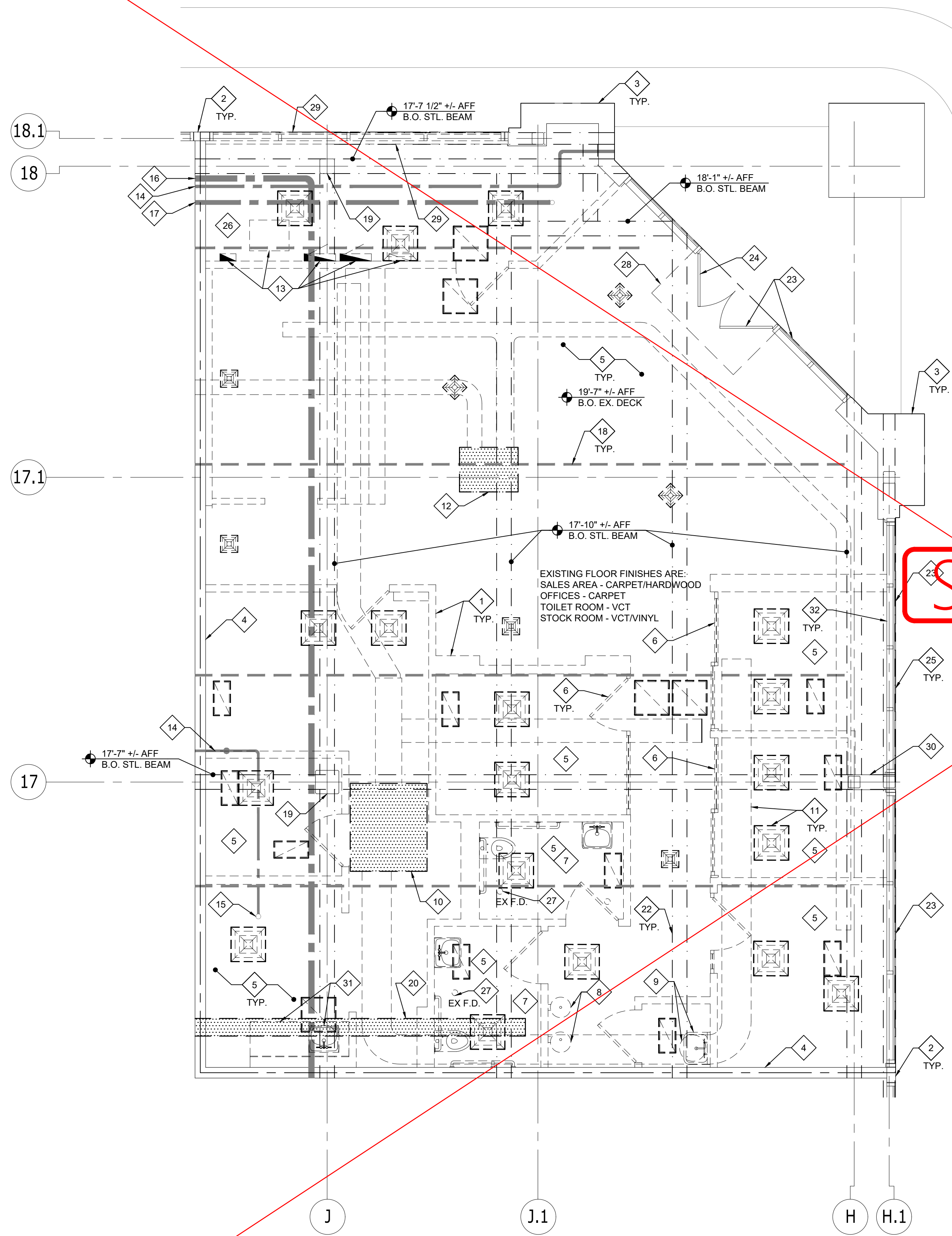
DATE:	07/18/2022
DRAWN BY:	LGA
PROJECT NO.:	22129
FILE NAME:	22129_The Village at Totem Lake.dwg

INFORMATION
SHEET:
SCHEDULES
& NOTES

IS2

GRAPHIC SCALE:

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SUPERSEDED

PAGE REVISED
10/24/2023

23
TYP.

25
TYP.

GENERAL NOTES

THE CONSULTING ENGINEER IS RESPONSIBLE FOR ALL DEMOLITION AND ANY OTHER DEMOLITION THAT MAY BE REQUIRED, BUT NOT SPECIFICALLY NOTED BY THE ARCHITECT.

KEY NOTES:

1. THE G.C. SHALL REMOVE EXISTING PARTITION(S) AS SHOWN, INCLUDING ANY ELECTRICAL DEVICES, DOORS, WINDOWS, FINISHES, AND OTHER ASSOCIATED ITEMS - VERIFY IN FIELD.
2. EXISTING NEUTRAL PIER TO REMAIN.
3. EXISTING BUILDING SHELL TO REMAIN.
4. EXISTING PARTITION TO REMAIN. THE G.C. SHALL REMOVE EXISTING TENANT FINISHES.
5. THE G.C. SHALL REMOVE THE ENTIRE EXISTING CEILING SYSTEM INCLUDING LIGHT FIXTURES, AND RELATED CEILING SUPPORT STRUCTURE UNLESS OTHERWISE NOTED.
6. THE G.C. SHALL REMOVE EXISTING DOOR, FRAME, AND HARDWARE COMPLETE.
7. THE G.C. SHALL REMOVE EXISTING TOILET ROOM COMPLETE AND CAP ALL UNUSED PLUMBING LINES FLUSH WITH CONCRETE SLAB IN COMPLIANCE WITH THE APPLICABLE BUILDING CODES. ALSO REPAIR ANY HOLES OR DAMAGE TO THE CONCRETE SLAB TO PROVIDE A SMOOTH AND LEVEL SURFACE.
8. THE GC SHALL REMOVE EXISTING WATER FOUNTAIN AND CAP ALL UNUSED PLUMBING LINES FLUSH WITH CONCRETE SLAB IN COMPLIANCE WITH THE APPLICABLE BUILDING CODES. ALSO REPAIR ANY HOLES OR DAMAGE TO THE CONCRETE SLAB TO PROVIDE A SMOOTH AND LEVEL SURFACE.
9. THE GC SHALL REMOVE EXISTING SERVICE SINK, 6 GALLON WATER HEATER, AND SHELVEING COMPLETE. CAP ALL UNUSED PLUMBING LINES FLUSH WITH CONCRETE SLAB IN COMPLIANCE WITH THE APPLICABLE BUILDING CODES. ALSO REPAIR ANY HOLES OR DAMAGE TO THE CONCRETE SLAB TO PROVIDE A SMOOTH AND LEVEL SURFACE.
10. EXISTING HVAC UNIT TO BE RELOCATED. COORDINATE WITH MECHANICAL PLANS & VERIFY IN FIELD.
11. THE GC SHALL REMOVE EXISTING, DUCTWORK, DIFFUSERS, GRILLES, AND ALL OTHER ASSOCIATED ITEMS (U.N.O.C.) COORDINATE WITH MECHANICAL PLANS & VERIFY IN FIELD.
12. THE G.C. SHALL CAREFULLY REMOVE AND SALVAGE EXISTING ENERGY RECOVERY UNIT. RELOCATE TO LOCATION SHOWN ON MECHANICAL PLAN.
13. THE GC SHALL RELOCATE EXISTING ELECTRICAL EQUIPMENT. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
14. EXISTING 2" DOMESTIC COLD WATER LINE @ 17'-11" AFF TO REMAIN.
15. EXISTING 2" DOMESTIC COLD WATER LINE @ 10'-0" AFF TO REMAIN.
16. EXISTING 4" VENT AT 16'-7" AFF TO REMAIN.
17. EXISTING 3" SANITARY VENT AT 17'-0" AFF TO REMAIN.
18. EXISTING 1-1/2" SPRINKLER BRANCH LINE @ 17'-3" AFF. SEE SPRINKLER PLANS FOR ADDITIONAL INFORMATION.
19. EXISTING STRUCTURAL COLUMN TO REMAIN.
20. EXISTING EXHAUST DUCT @ 14'-0" AFF TO NEW EXHAUST FAN INTO DUCT. REFER TO MECHANICAL PLANS FOR MORE INFORMATION.
21. EXISTING STOREFRONT METAL CANOPY AT 10'-11" TO REMAIN.
22. EXISTING STOREFRONT BEAM TO REMAIN. SEE PLAN FOR HEIGHTS.
23. EXISTING STOREFRONT, GLAZING, AND DOORS TO REMAIN. G.C. TO CLEAN AND REPAIR TO "LIKE-NEW" CONDITION.
24. GC TO REMOVE EXISTING STOREFRONT DOOR HANDLES AND REPLACE WITH NEW. SEE CONSTRUCTION PLAN AND SHEET S2Z FOR ADDITIONAL INFORMATION.
25. GC TO REPAIR ALL STOREFRONT WINDOWS COVERED WITH VENDOR PROVIDED CLING ON GRAPHICS. GC TO COVER ANY UNCOVERED WINDOWS WITH WHITE PAPER BEFORE THE START OF DEMOLITION.
26. UPON ENTERING THE SPACE, GC TO RELAY TO CONSTRUCTION PROJECT MANAGER THE EXISTING CONDITION OF THE 66 BLOCK. IF EXISTING IS IN WORKING ORDER, GC TO COLLECT EXISTING PHONE LINES / DEMARK FOR FUTURE USE BY OTHERS. SEE SHEET E2 FOR FUTURE CONNECTION FROM 66 BLOCK TO DEMARK. IF 66 BLOCK IS NOT EXISTING, REFER TO SHEET E2 FOR EXISTING OF WORK.
27. EXISTING FLOOR DRAIN TO BE CAPPED IN PLACE. FLUSH WITH CONCRETE SLAB IN COMPLIANCE WITH THE APPLICABLE BUILDING CODES. ALSO REPAIR ANY HOLES OR DAMAGE TO THE CONCRETE SLAB AND LEVEL SURFACE.
28. THE G.C. SHALL REMOVE EXISTING RECESSED WALK-OFF MAT COMPLETE. G.C. TO PATCH AND REPAIR EXISTING CONCRETE SLAB TO PROVIDE A SMOOTH AND LEVEL SURFACE.
29. GC TO REMOVE EXISTING STOREFRONT SYSTEM AND SOLID ACM PANELS INCLUDING ALL ELECTRICAL COMPONENTS FROM PREVIOUSLY DEMOLISHED ATMS IN PREPARATION FOR NEW STOREFRONT WORK. SEE A9 AND A10 FOR ADDITIONAL INFORMATION.
30. EXISTING STRUCTURAL COLUMN AND ENCLOSURE TO REMAIN. THE GC SHALL REMOVE EXISTING TENANT FINISHES FROM COLUMN ENCLOSURE.
31. G.C. TO REMOVE EXISTING COUNTER AND SINK. CAP ALL UNUSED PLUMBING LINES FLUSH WITH CONCRETE SLAB IN COMPLIANCE WITH THE APPLICABLE BUILDING CODES. ALSO REPAIR ANY HOLES OR DAMAGE TO THE CONCRETE SLAB TO PROVIDE A SMOOTH AND LEVEL SURFACE.
32. G.C. TO REMOVE EXISTING WINDOW SHADES COMPLETE.

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DEMOLITION PLAN

~~D1~~

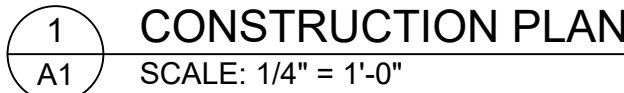
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~~A1~~

GRAPHIC SCALE:

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Wall Type	Construction
A	3-5/8" METAL STUDS & GYP. BD. WITH INSULATION
A6	6" METAL STUDS & GYP. BD. WITH INSULATION
B	1-HR FIRE RATED WALL W/ 3-5/8" METAL STUDS & GYP. BD. TO UNDERSIDE OF STRUCTURE ABOVE
B6	1-HR FIRE RATED WALL W/ 6" METAL STUDS & GYP. BD. TO UNDERSIDE OF STRUCTURE ABOVE
BN	3-5/8" METAL STUDS & GYP. BD. TO UNDERSIDE OF STRUCTURE ABOVE - NON RATED
BN6	6" METAL STUDS & GYP. BD. TO UNDERSIDE OF STRUCTURE ABOVE - NON RATED
C	3-5/8" METAL STUDS & GYP. BD. TO UNDERSIDE OF EXISTING FINISHED CEILING ABOVE
C6	6" METAL STUDS & GYP. BD. TO UNDERSIDE OF EXISTING FINISHED CEILING ABOVE
D	WATER HEATER PLATFORM. SEE DETAIL 2/A1.
D6	NOT USED.
E	3-5/8" METAL STUDS & GYP. BD. WITH INSULATION TO UNDERSIDE OF PLATFORM. SEE DETAIL 5/A5.
E6	6" METAL STUDS & GYP. BD. WITH INSULATION TO UNDERSIDE OF PLATFORM. SEE DETAIL 5/A5.
F	EXISTING EXTERIOR WALL ASSEMBLY W/ GYP. BD. INTERIOR FINISH TO REMAIN. G.C. TO PATCH AND REPAIR AS REQUIRED FOR NEW WORK.
G	NOT USED.
H	EXISTING INTERIOR STUD AND GYP. BD. WALL ASSEMBLY TO REMAIN. G.C. TO PATCH AND REPAIR AS REQUIRED FOR NEW WORK.
J	NOT USED.

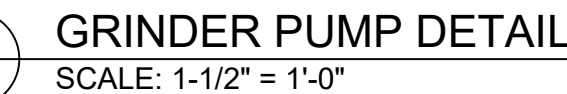
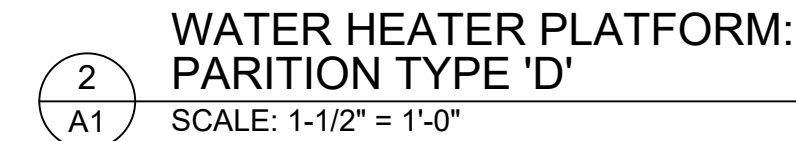
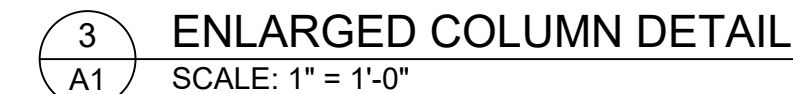
ALL GYPSUM BOARD (NEW AND EXISTING) TO MAINTAIN / ACHIEVE LEVEL 5 FINISH PER GYPSUM ASSOCIATION GA-214-96 (STOCKROOM EXCLUDED)

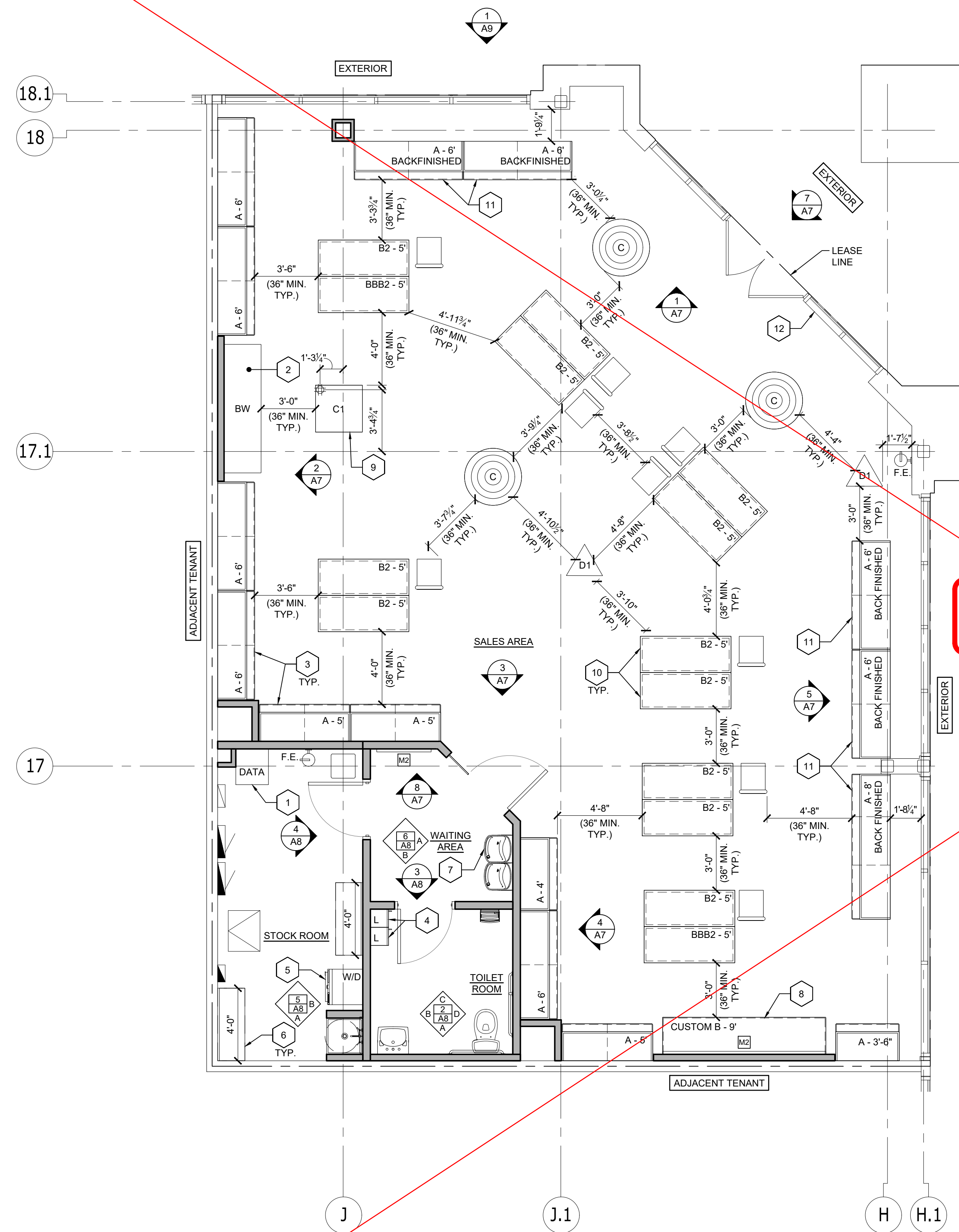
- A. THE G.C. SHALL FIELD VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND SHALL REPORT TO THE OWNER ANY DISCREPANCIES AND/OR OMISSIONS WHICH COULD INTERFERE WITH THE SATISFACTORY COMPLETION OF THE WORK HEREIN.
- B. G.C. TO PROVIDE FIRE TREATED WOOD BLOCKING OR METAL STRAPPING IN WALLS AS REQUIRED TO INSTALL ALL MILLWORK, DOORS, SIGNAGE (INTERIOR AND EXTERIOR), STAIRS, STOCK ROOM SHELVING, PLUMBING FIXTURES, ACCESSORIES, ETC.
- C. ALL WOOD, WOOD BLOCKING, AND/OR MDF OTHER THAN FINISHED WOOD TRIM SHALL BE FIRE RETARDANT TREATED.
- D. REFER TO FINISH SCHEDULE AND NOTES ON SHEET 30 FOR ADDITIONAL INFORMATION.
- E. SEE SHEET A8 AND PLUMBING PLANS FOR INFORMATION ON TOILET ROOM FIXTURING AND HARDWARE.
- F. ALL METAL STUD PARTITIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- G. ELEVATION TAGS ARE LOCATED ON SHEET A2.

1. EXISTING STOREFRONT, GLAZING, & DOORS TO REMAIN. G.C. TO CLEAN & REPAIR TO BRING TO 'LIKE NEW' CONDITION IF DAMAGED DURING CONSTRUCTION AND INSTALL NEW STOREFRONT DOOR PULLS. SEE IS2 FOR MORE INFORMATION.
2. EXISTING BUILDING SHEDS TO REMAIN.
3. EXISTING NEUTRAL PIER TO REMAIN.
4. LINE OF SOFFIT ABOVE. REFER TO CEILING PLAN ON SHEET A5 & INTERIOR ELEVATIONS.
5. WALL MOUNTED FIRE EXTINGUISHER FURNISHED & INSTALLED BY G.C. FIRE EXTINGUISHERS ARE TO BE TYPE 2-A MOUNTED AT 48" A.F.F. PRIOR TO INSTALLATION. COORDINATE EXACT LOCATION & QUANTITY WITH FIRE MARSHAL/ INSPECTOR.
6. ELECTRICAL EQUIPMENT LOCATION (VERIFY IN FIELD). SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
7. OUTLINE OF BACKWARP. SEE SHEET A2 FOR ADDITIONAL INFORMATION.
8. GLASS DOOR & SIDE LITE FURNISHED & INSTALLED BY G.C. SEE SHEET IS2 FOR MORE INFORMATION.
9. NEW 30 GALLON TANK TYPE WATER HEATER MOUNTED ON PLATFORM ABOVE MOP SINK SEE DETAIL 2/A1. SEE PLUMBING PLANS FOR ADDITIONAL INFORMATION.
10. WALLS AROUND WAITING AREA AND TOILET ROOM TO HAVE HIGH SOUND RATING. REFER TO PARTITION SCHEDULE. G.C. TO CAULK ALL WALL JOINTS AND SEAL WITH ACOUSTICAL SEALANT.
11. FLOOR MOUNTED MOP SINK FURNISHED & INSTALLED BY G.C. SEE PLUMBING SHEET FOR MORE INFORMATION. SEE SHEET A8 FOR FRP LOCATIONS.
12. GLAZING SYSTEM & GLASS FURNISHED & INSTALLED BY G.C. SEE ELEVATIONS & DETAILS.
13. GLASS FURNISHING. INSTALL BILCO SINGLE LEAF ACCESS DOOR, TYPE 100 WITH 7" FILLABLE PAN FOR GRINDER PUMP ACCESS. REFER TO DETAIL 4/A1 & PLUMBING DRAWINGS FOR MORE INFORMATION.



NOTE: ANY PARTITION THAT EXCEEDS 17'-6" IN HEIGHT WITH 3 5/8" x 20 GA. METAL STUDS SHALL REQUIRE BRACING. SEE BRACING DETAIL ON SHEET A3.





FIXTURE PLAN LEGEND:

- NOT USED.
- MIRROR (GL-2) FURNISHED & INSTALLED BY G.C. WITH WOOD FRAME TO BE CUT IN FIELD. FURNISHED BY VENDOR & INSTALLED BY G.C. SEE ELEVATIONS. VENDOR TO PAINT WOOD FRAME P-7 AND PROVIDE EXTRA TOUCH UP PAINT TO THE FIELD.
- FIRE EXTINGUISHER FURNISHED & INSTALLED BY G.C.
- MAKEUP CHAIR FURNISHED & INSTALLED BY VENDOR

GENERAL NOTES:

- PRIOR TO FIXTURE INSTALLATION, REFER TO THE FIXTURE HANDBOOK FOR INFORMATION ON ASSEMBLY OF THE FIXTURES.
 - ALL PERIMETER UNITS, SHELVING AND HARDWARE FURNISHED BY BLUEMERCURY MILLWORK VENDOR AND INSTALLED BY G.C. G.C. TO INSTALL SHELVING AND HARDWARE PRIOR TO TURNOVER. REFER TO FIXTURE INSTALLATION GUIDE FOR MORE INFORMATION. G.C. TO PLACE FIXTURES IN ACCORDANCE TO PLAN AND LEVEL IN PLACE.
 - ALL FREE STANDING FIXTURES, BACKWRAP, AND HARDWARE FURNISHED BY BLUEMERCURY VENDOR AND INSTALLED BY G.C. UNLESS NOTED OTHERWISE. G.C. TO PLACE ACCORDING TO PLAN AND LEVEL IN PLACE.
 - FREE STANDING FLOOR FIXTURES SHALL BE PLACED TO ALLOW A 44" WIDE MIN. EGRESS AISLE CONTINUOUS FROM FRONT TO BACK OF SALES AREA.
 - G.C. TO NOT GLUE MARBLE TO ANY FIXTURES.
- KEY NOTES:
- TENANT VENDOR TO PROVIDE (2) LOCKABLE DATA RACKS TO HOUSE LOW VOLTAGE EQUIPMENT. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION. WALL MOUNT DATA RACKS SO THAT THE TOP OF RACK IS 4'-0" A.F.F.
 - BACKWRAP: BACKWRAP CASEWORK FURNISHED BY BLUEMERCURY VENDOR & INSTALLED BY G.C. SEE ELEVATION 2/A7. SEE ELECTRICAL SHEETS FOR DEVICES TO BE LOCATED WITHIN CASEWORK.
 - PERIMETER WALL UNITS. SEE INTERIOR ELEVATIONS, DETAILS AND ELECTRICAL SHEETS FOR INFORMATION ON LIGHTING WITHIN FIXTURES.
 - MILLWORK LOCKERS FURNISHED BY BLUEMERCURY MILLWORK VENDOR & INSTALLED BY G.C. G.C. TO PROVIDE F.R. WOOD BLOCKING IN WALL AND SECURE THE LOCKERS TO THE WALL AT TOP, MIDDLE AND BOTTOM.
 - G.C. TO FURNISH & INSTALL NEW STACKABLE WASHER: BOSCH WASHER #WAT28400UC & DRYER: BOSCH DRYER #WTG86400UC. G.C. TO STACK DRYER ON TOP OF WASHER. G.C. TO FURNISH AND INSTALL BOSCH STACKING KIT WITH PULLOUT TRAY: [WTZ11400UC]. SEE MECHANICAL & ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.
 - STOCK SHELVING: G.C. TO FURNISH & INSTALL HEAVY DUTY METAL STANDARDS AND 18" DEEP BRACKETS. STANDARDS TO BE SET AT 2'-0" O.C. U.N.O. ON PLAN. G.C. TO FURNISH & INSTALL 16" DEEP x 3/4" THICK WHITE MELAMINE SHELVING. SHELVING STANDARDS TO BE SECURED TO THE WALL USING HORIZONTAL BLOCKING AT THE BOTTOM, MIDDLE & TOP OF THE SHELVING UNIT. (ON 1-HOUR RATED DEMISING WALLS, G.C. TO SURFACE MOUNT 1/2" PLYWOOD ON GYP.BD. FOR BLOCKING & FIRESEAL PENETRATIONS BEFORE MOUNTING WALL STANDARDS.) 16" SHELVES TO BE SET ON 18" BRACKETS TO PROVIDE 2" GAP BETWEEN SHELF AND WALL. SEE DETAIL 2/A2.
 - H-I.O DRINKING FOUNTAIN, FURNISHED & INSTALLED BY G.C. SEE SHEET A8 & PLUMBING SHEETS FOR ADDITIONAL INFORMATION.
 - GC TO SECURE BUREAU TO WALL WITH VENDOR PROVIDED SCREWS.
 - CUSTOM MILLWORK FIXTURE FURNISHED BY VENDOR AND INSTALLED BY G.C. G.C. TO INSTALL QUAD POWER RECEPTACLE IN THE FLOOR. FLOOR RECEPTACLE COVER TO BE A BRASS FINISH. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
 - G.C. TO SECURE MAKEUP TABLES BACK-TO-BACK WITH 2-1/2" x 1-3/8" ZINC MENDING BRACE AT CENTER NOTCH AT BACK OF CABINETS. COORDINATE WITH BLUEMERCURY MILLWORK VENDOR.
 - BACK FINISHED PERIMETER WALL UNIT. GC TO CONFIRM DISTANCE FROM BACK OF FIXTURE TO NEAREST SURFACE. GC TO COORDINATE WITH FIXTURE VENDOR ON LONGER SHELF TO CATCH MERCHANDISE. RELAY INFO TO CONSTRUCTION PROJECT MANAGER FOR FIXTURE ORDERING PURPOSES.
 - G.C. TO FURNISH AND INSTALL TACTILE EXIT SIGN. SEE DETAIL 3/A2. SIGN TO BE MOUNTED ON LATCH SIDE OF DOOR.

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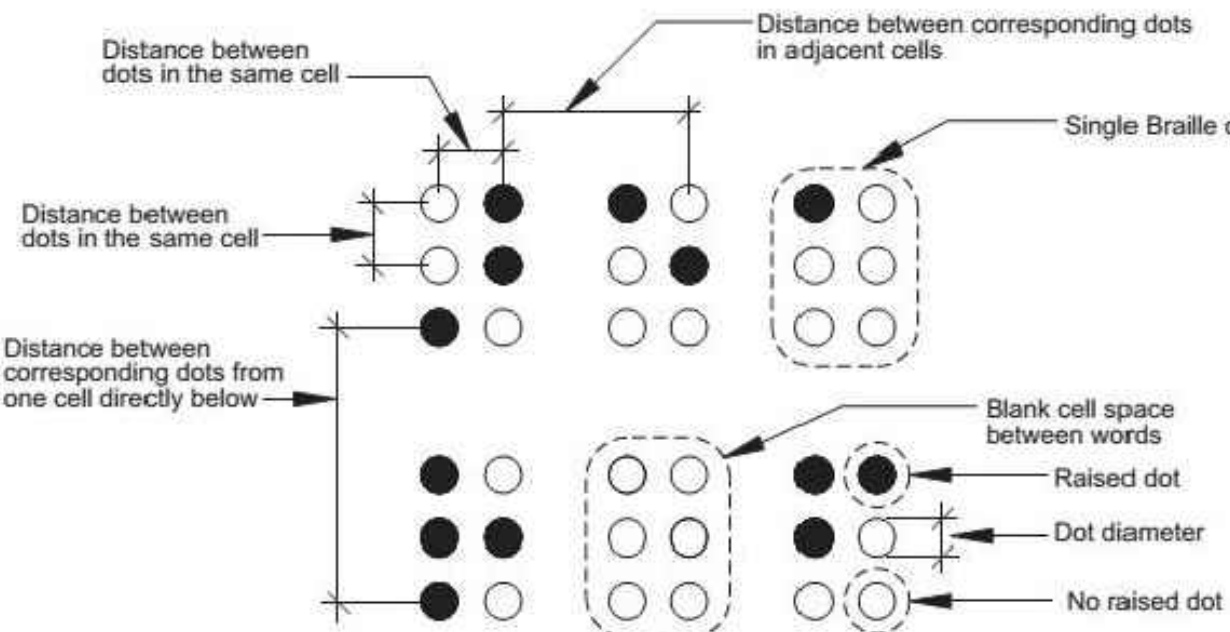
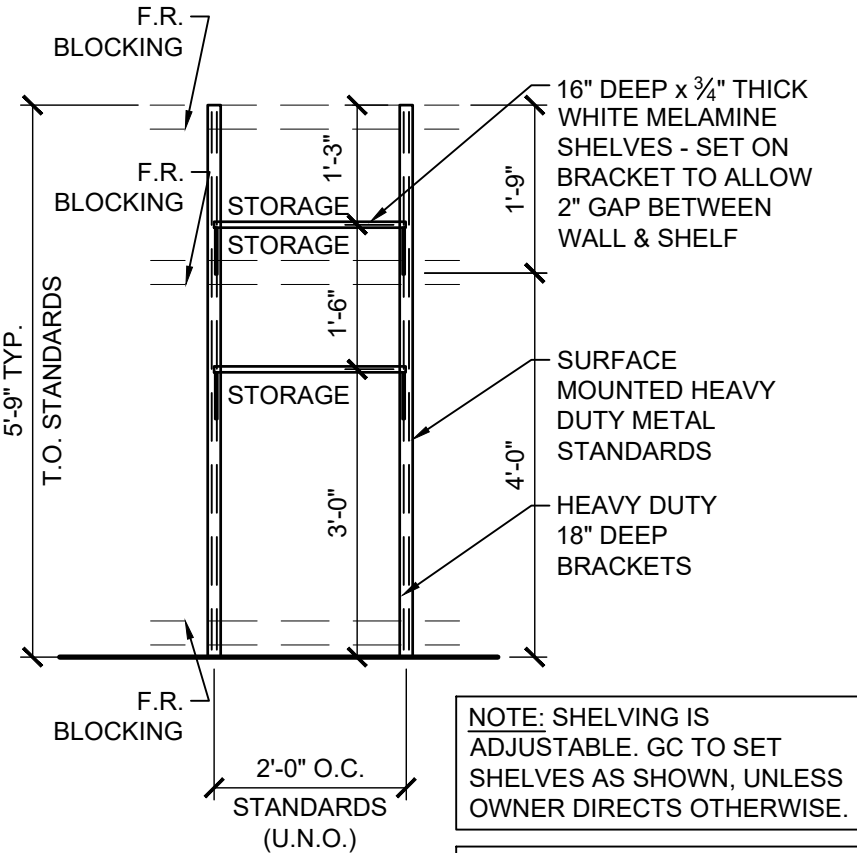
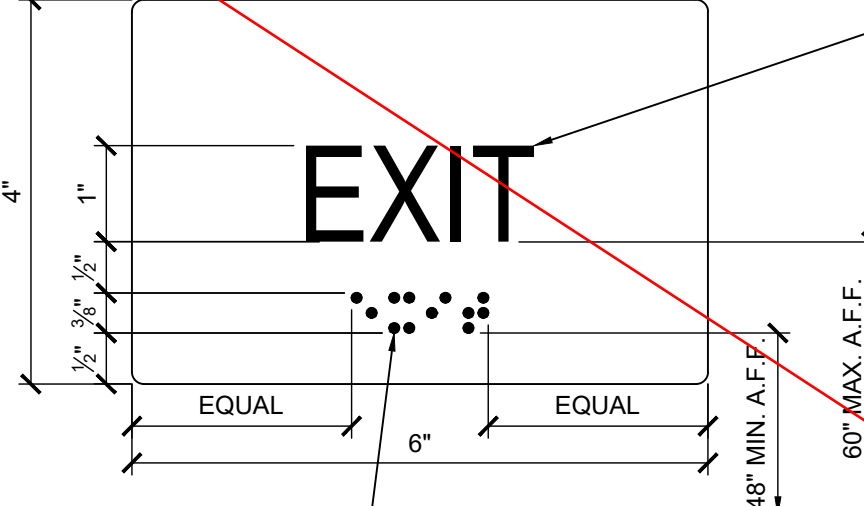


FIG. 703.4.3BRAILLE MEASUREMENT



2 STANDARD STOCK SHELF ELEVATION
SCALE: 1/2" = 1'-0"

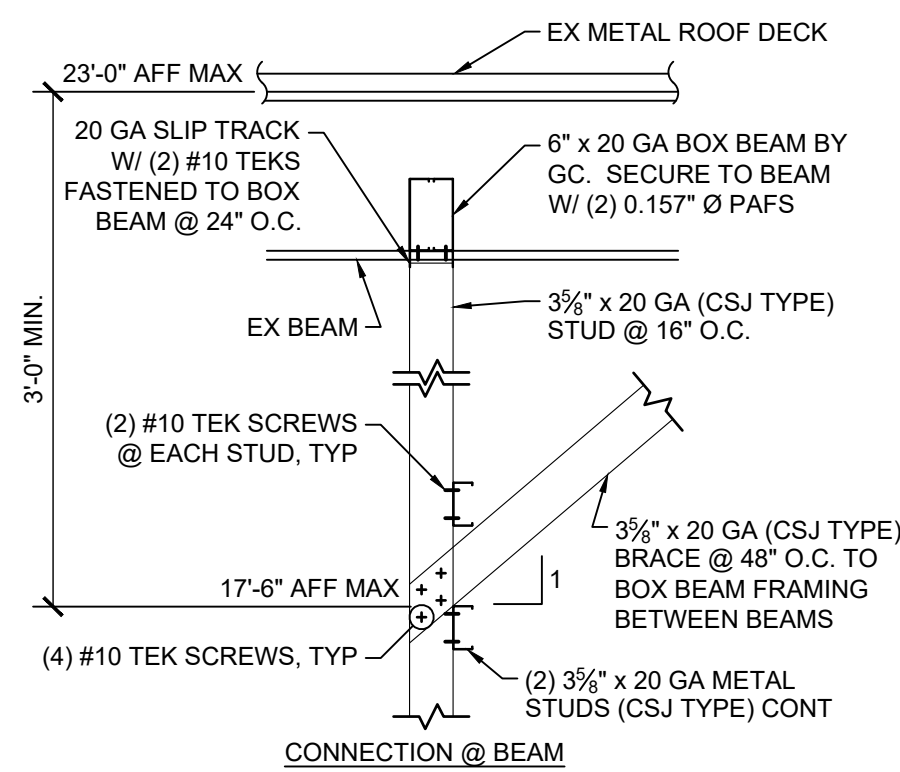
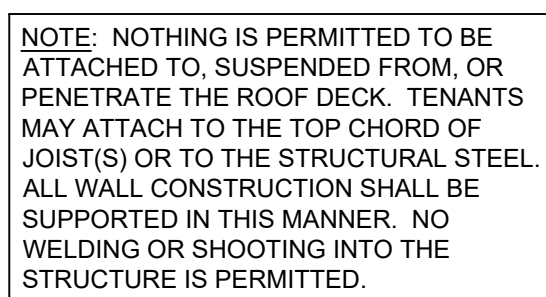
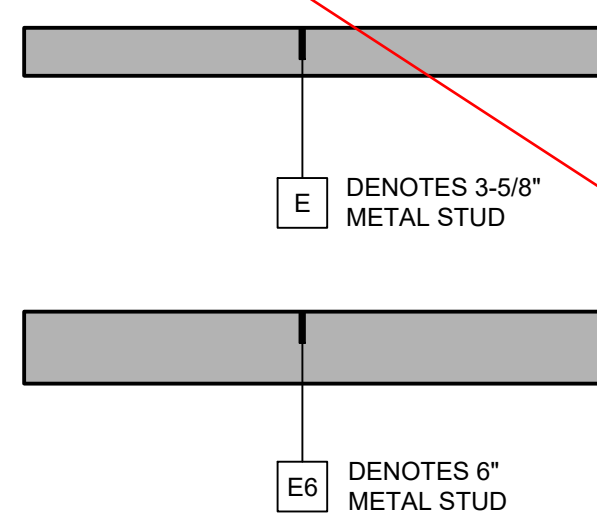
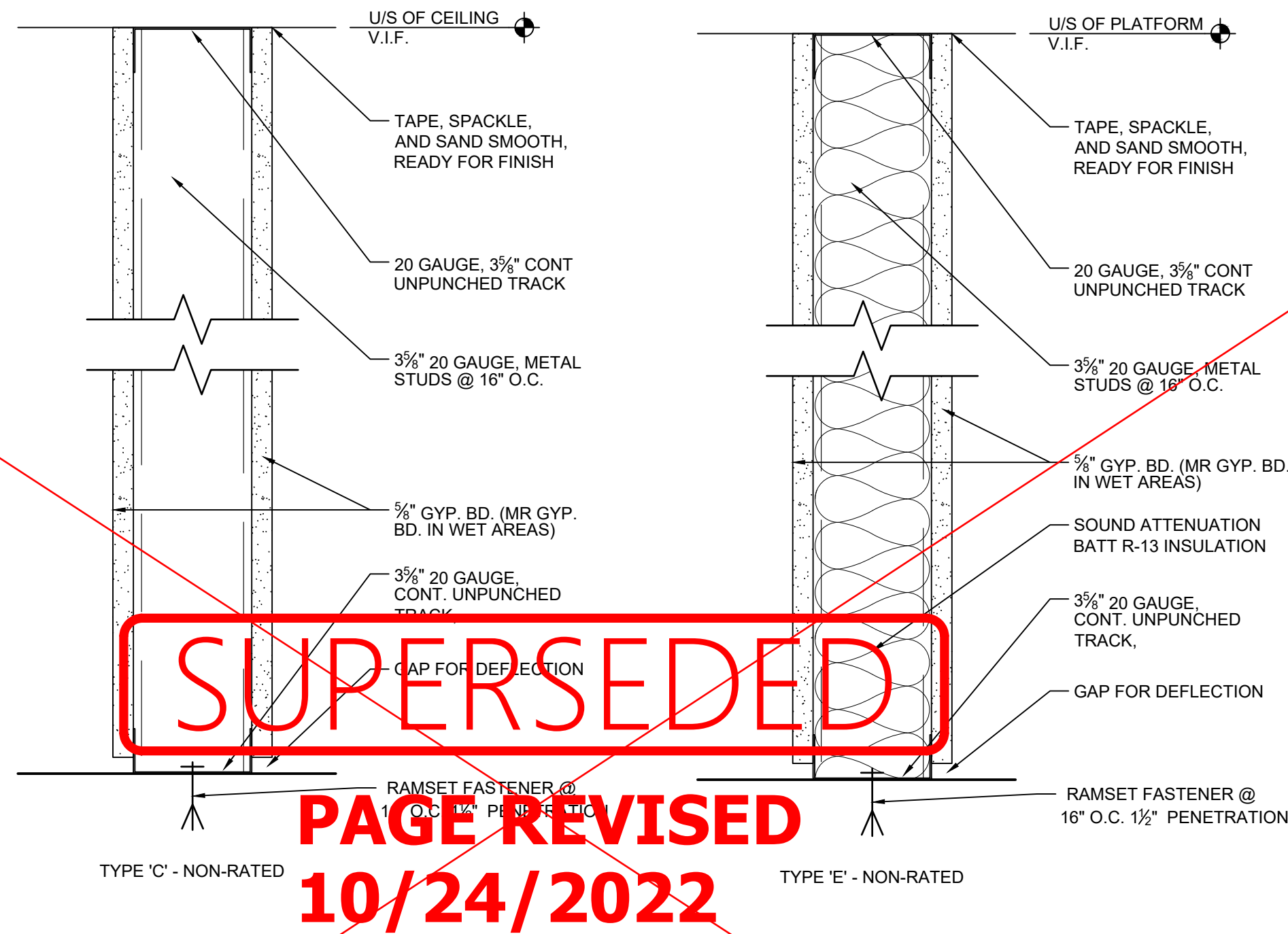


3 TACTILE EXIT SIGNAGE
SCALE: 6" = 1'-0"

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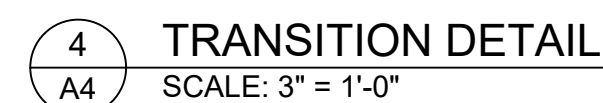
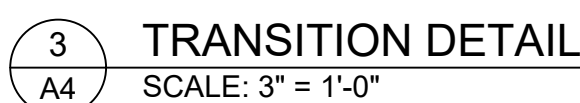
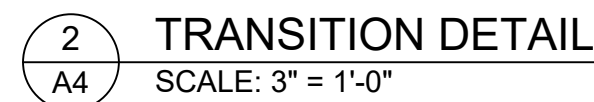
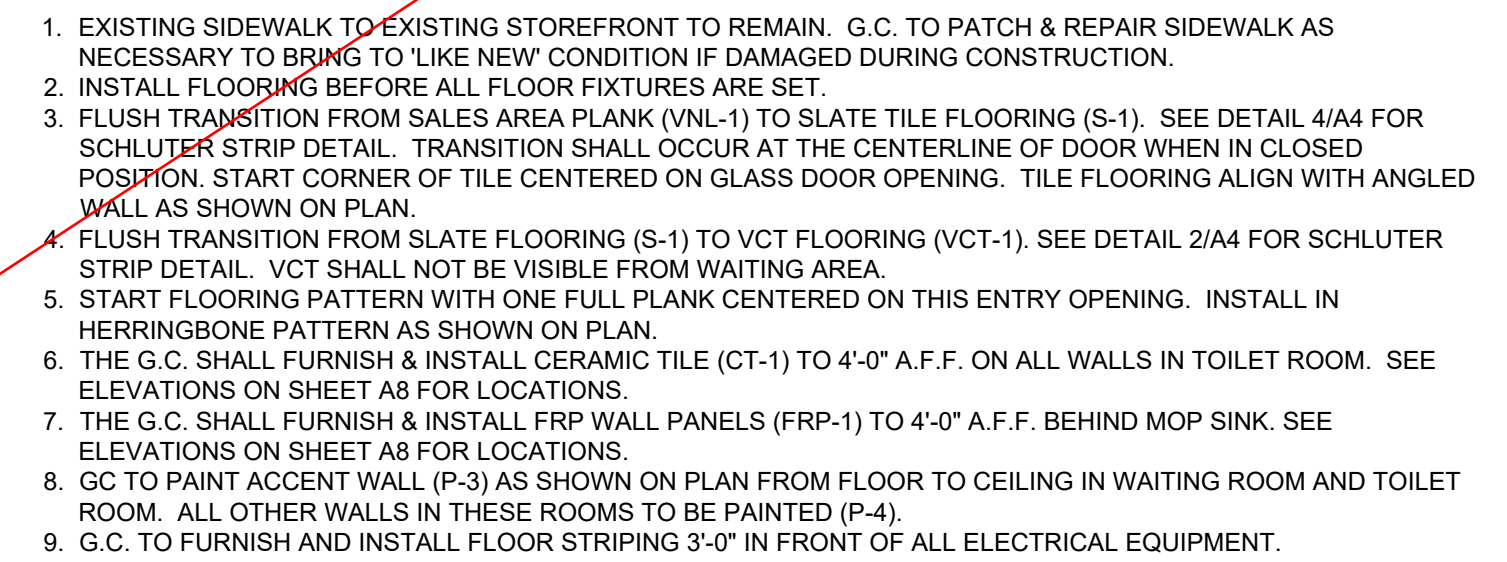
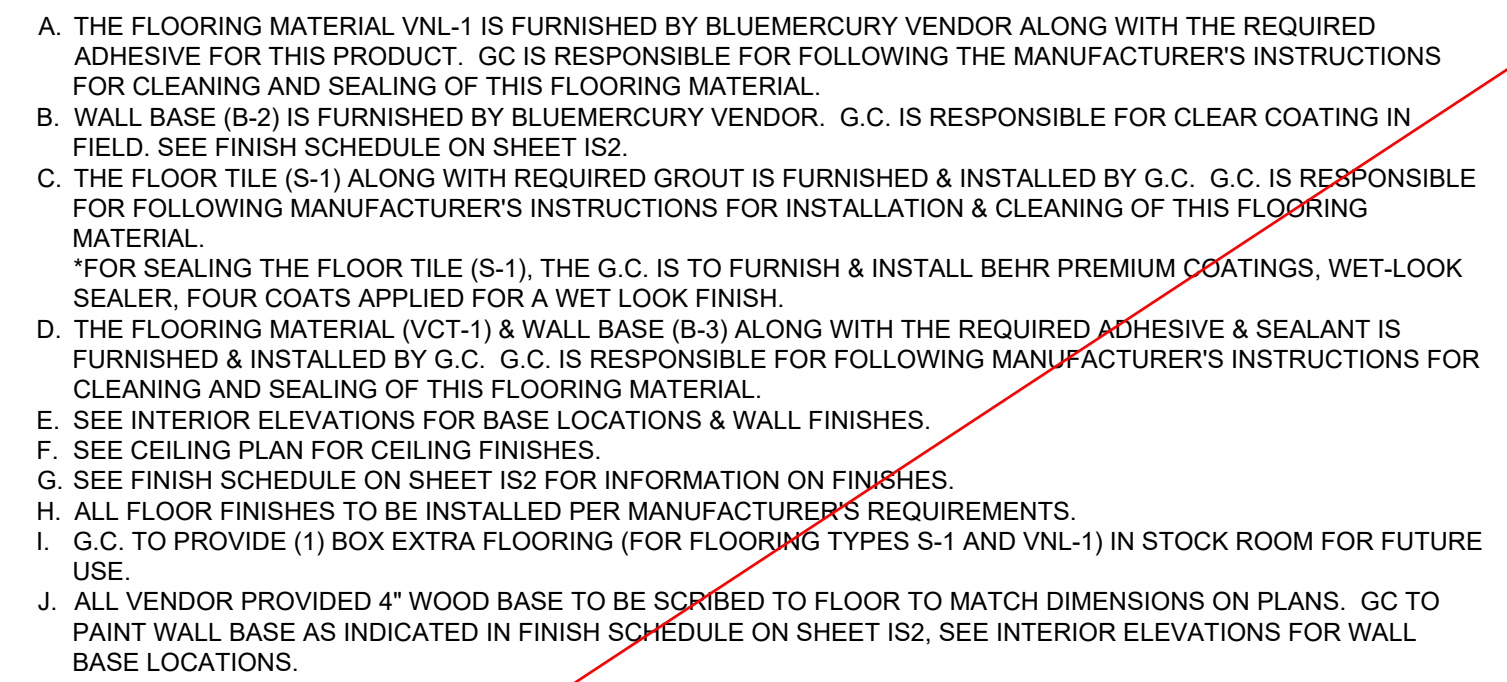
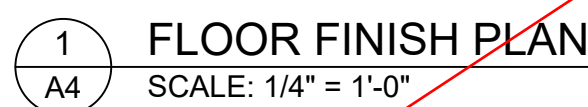
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FIXTURE PLAN



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A3



GENERAL NOTES:

- ALL SPRINKLER MAINS AND BRANCH LINES MUST BE RAISED ABOVE THE SPECIFIED CEILING/ BULKHEAD/ COVE HEIGHTS AT G.C.'S EXPENSE. REFER TO SPRINKLER PLANS FOR ADDITIONAL INFORMATION.
- ALL SPRINKLER HEADS IN STOCK ROOM TO BE 18" ABOVE THE HIGHEST STOCK SHELF (MINIMUM).
- REFER TO MECHANICAL AND ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- REFER TO AS FOR LIGHT LOCATIONS.
- DIMENSIONS ARE TO THE CENTERLINE OF OBJECTS, UNLESS NOTED OTHERWISE.
- SEE SHEET IS2 FOR PAINT TYPES & FINISHES.
- G.C. TO FURNISH & INSTALL ACCESS PANELS AS REQUIRED FOR ACCESS TO TRANSFORMERS, MECHANICAL, PLUMBING, FIRE SPRINKLER, OR STOREFRONT SIGNAGE. ACCESS PANELS SHALL BE PAINTED TO MATCH ADJACENT FINISHES. COORDINATE LOCATION WITH SIGN VENDOR, TRADES, LANDLORD & BUILDING OFFICIALS.
- ALL GYPSUM BOARD CEILING TO MAINTAIN / ACHIEVE LEVEL 5 FINISH PER GYPSUM ASSOCIATION GA-214-96

KEY NOTES:

- LINE OF EXISTING STOREFRONT CANOPY. SEE SIGN SHOP DRAWINGS & ELECTRICAL DRAWINGS FOR EXTERIOR SIGNAGE INFORMATION.
- GYP. BD. CEILING @ 12'-0" A.F.F. IN SALES AREA. TO BE PAINTED (P-2). G.C. TO FURNISH & INSTALL THE SUSPENSION SYSTEM MANUFACTURED BY U.S.G. SEE DETAIL 3/A5.
- GYP. BD. CEILING @ 9'-6" A.F.F. TO BE PAINTED (P-2). G.C. TO FURNISH & INSTALL THE SUSPENSION SYSTEM MANUFACTURED BY U.S.G. SEE DETAIL 3/A5.
- DUAL-ZONE MUSIC SYSTEM. ZONE 1 SPEAKERS SHALL BE RECESSED IN GYP. BD. CEILING. DO NOT PAINT. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- DUAL-ZONE MUSIC SYSTEM. ZONE 2 SPEAKERS SHALL BE RECESSED IN GYP. BD. CEILING. DO NOT PAINT. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- GYP. BD. SOFFIT AT 13'-6" A.F.F. PAINT UNDERSIDE (P-2). SEE DETAIL 2/A5.
- SQUARE HVAC DIFFUSER (WHITE). SEE MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- ROUND HVAC DIFFUSER (WHITE) IN OPEN TO DECK CEILING. SEE MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- WINDOW DISPLAY TRACK (SUPPLIED BY VENDOR). SURFACE MOUNTED TO UNDERSIDE OF SOFFIT. REFER TO REFLECTED CEILING PLAN FOR LENGTH OF TRACK. FURNISHED BY OWNER'S VENDOR & INSTALLED BY G.C. 30" WIDE BY 72" TALL BANNER SUPPLIED BY VENDOR. COORDINATE EXACT PLACEMENT WITH CONSTRUCTION PROJECT MANAGER AND SIGN VENDOR. G.C. TO PAINT P-2 TO MATCH ADJACENT CEILING FINISHES.
- TOILET ROOM EXHAUST FAN FURNISHED & INSTALLED BY G.C. SEE MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.
- OPEN TO DECK IN STOCK ROOM. DO NOT PAINT DECK.
- G.C. TO INSTALL 12" x 12" (FINISHED OPENING) HINGED SQUARE CORNER 'INTECFORMS' ACCESS PANEL IN CEILING FOR LIGHTING / ELECTRICAL ACCESS. G.C. TO PAINT P-2 TO MATCH ADJACENT CEILING FINISHES.
- G.C. TO INSTALL 36" x 36" (FINISHED OPENING) HINGED SQUARE CORNER 'INTECFORMS' ACCESS PANEL IN CEILING FOR SIGN ACCESS. COORDINATE EXACT PLACEMENT WITH CONSTRUCTION PROJECT MANAGER AND SIGN VENDOR. G.C. TO PAINT P-2 TO MATCH ADJACENT CEILING FINISHES.
- GYP. BD. SOFFIT TO ALIGN WITH TOP OF STOREFRONT GLAZING MULLION @ 15'-1 1/2" +/- A.F.F. (V.I.F.). G.C. TO PAINT UNDERSIDE AND VERTICAL FACE (P-2). SEE DETAIL 4/A5.
- G.C. TO INSTALL 24"x24" (FINISHED OPENING) HINGED SQUARE CORNER 'INTECFORMS' ACCESS PANEL IN CEILING FOR HVAC UNIT ACCESS. G.C. TO PAINT P-2 TO MATCH ADJACENT CEILING FINISHES.
- G.C. TO FURNISH AND INSTALL PLATFORM ABOVE TOILET ROOM AND WAITING AREA FOR HVAC UNIT. TOP OF PLATFORM TO BE @ 11'-2" AFF. REFER TO DETAIL 5/A5.

SPEAKER LEGEND

SP1	RECESSED IN GYP. BD. CEILING. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
SP2	RECESSED IN GYP. BD. CEILING. SEE ELECTRICAL PLANS FOR MORE INFORMATION.

G.C. TO PROVIDE THE FOLLOWING AS A BID ALTERNATE:

G.C. TO PROVIDE A PRICE, PER ACCESS PANEL, IN THE EVENT MORE ACCESS PANELS ARE NEEDED THAN WHAT IS SHOWN ON THE PLANS.

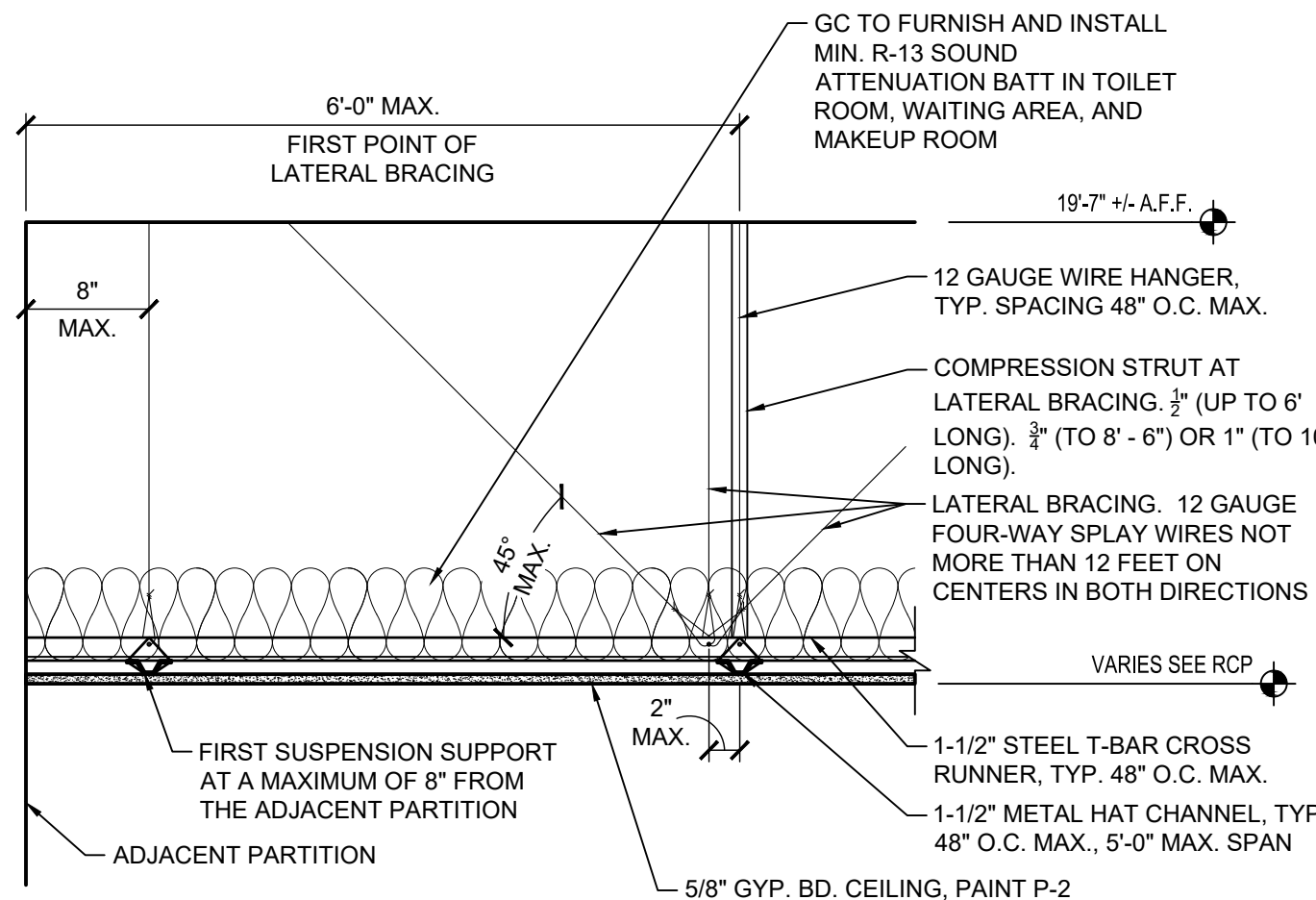
30" x 30" (FINISHED OPENING) HINGED SQUARE CORNER 'INTECFORMS' ACCESS PANEL IN CEILING FOR ACCESS TO ITEMS ABOVE. G.C. TO CONFIRM ON SITE WHAT IS NEEDED AND THE PLACEMENT. G.C. TO PAINT P-2 TO MATCH ADJACENT CEILING FINISHES.

G.C. TO INCLUDE THREE EXTRA ACCESS PANELS IN BASE BID, CREDIT TO BE GIVEN IF ACCESS PANELS ARE NOT NEEDED / INSTALLED.

NOTE: NOTHING IS PERMITTED TO BE ATTACHED TO, SUSPENDED FROM, OR PENETRATE THE ROOF DECK. TENANTS MAY ATTACH TO THE TOP CHORD OF JOIST(S) OR TO THE STRUCTURAL STEEL. ALL WALL CONSTRUCTION SHALL BE SUPPORTED IN THIS MANNER. NO WELDING OR SHOOTING INTO THE STRUCTURE IS PERMITTED.

SUPERSEDED
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10/24/2022

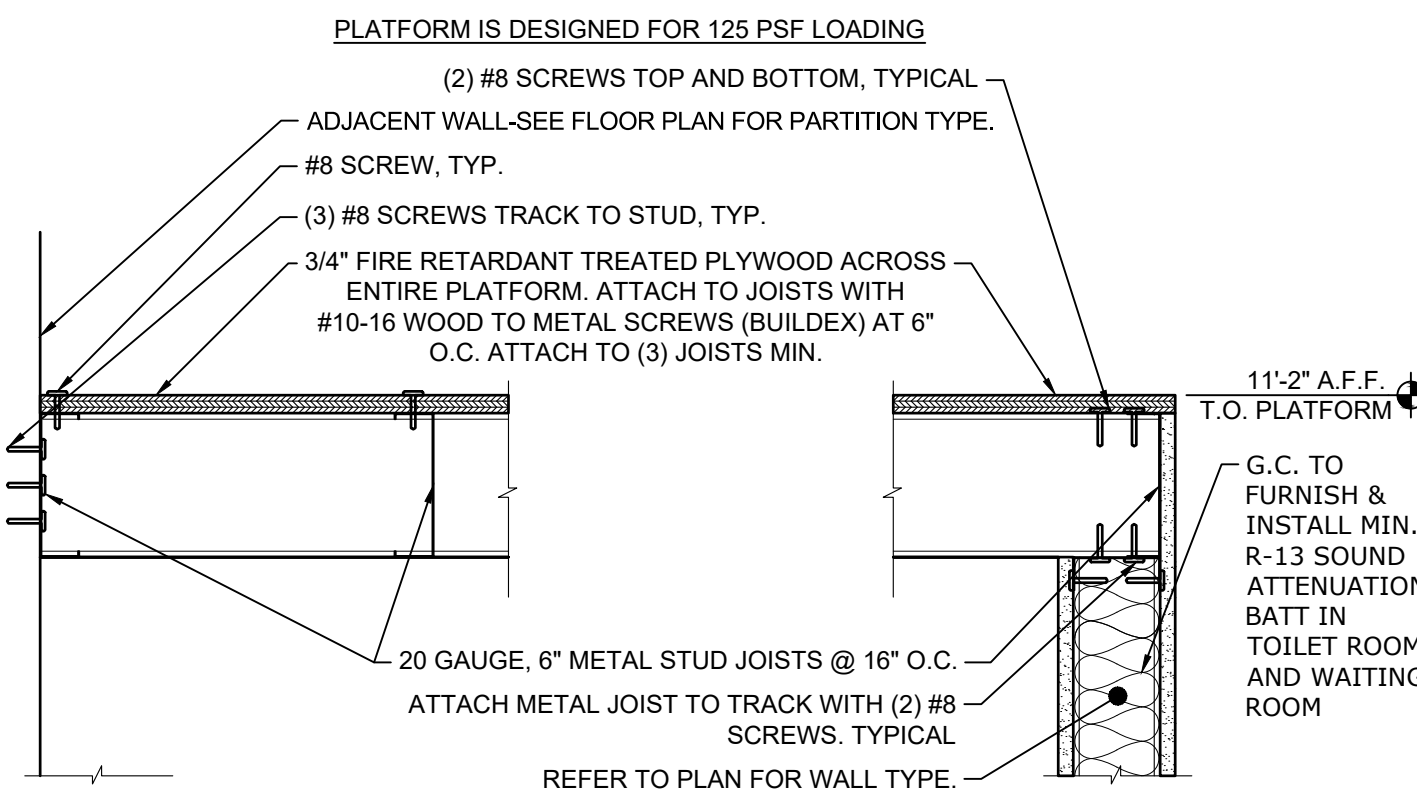
COVE DETAIL
SCALE: 3/4" = 1'-0"



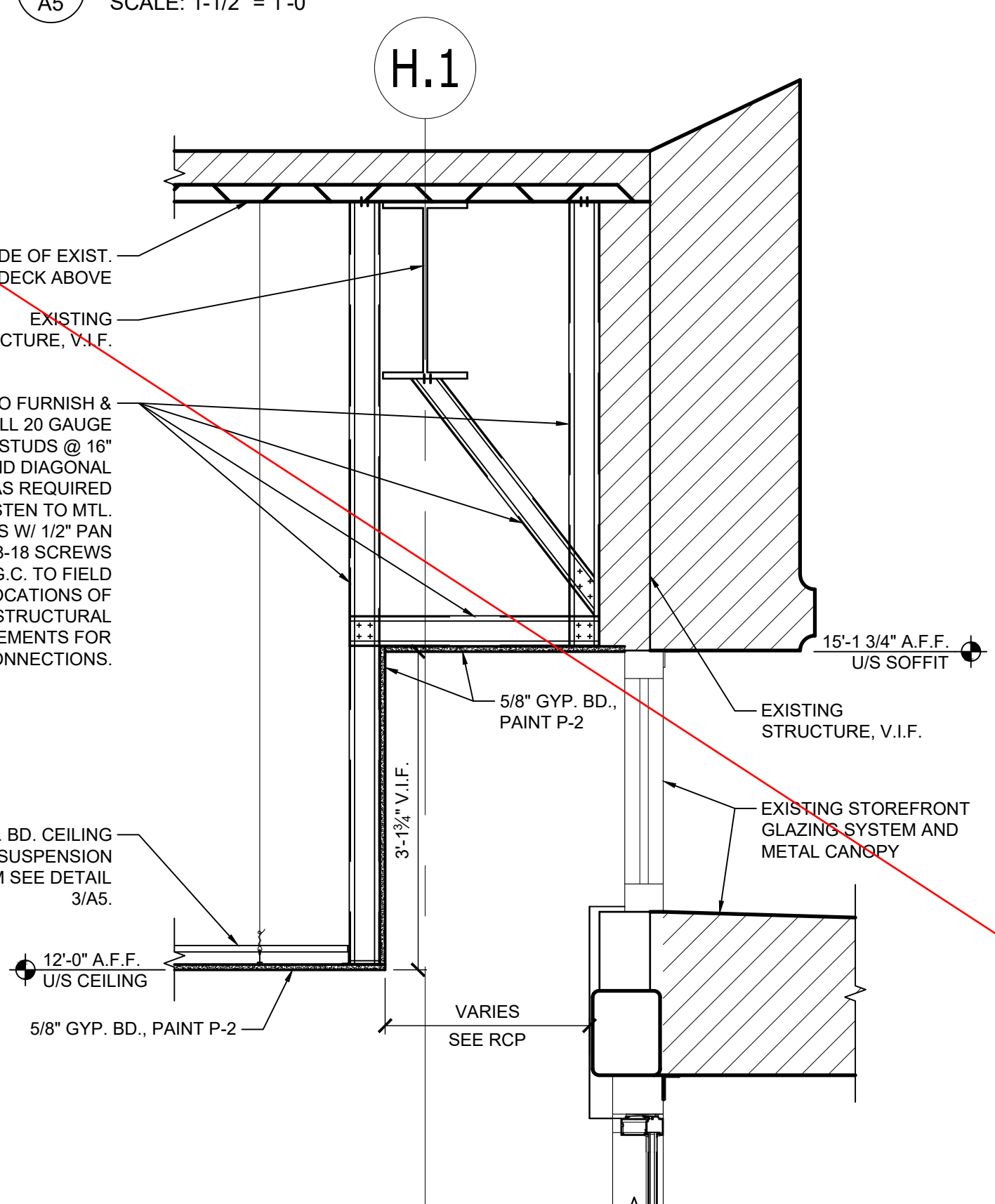
- NOTES:
- LATERAL BRACING (HORIZONTAL RESTRAINTS) SHALL BE FOUR (4) NO. 12 GAUGE (MIN.) WIRES SECURED TO THE MAIN RUNNER WITHIN 2" OF THE CROSS RUNNER INTERSECTION AND SPAYED 90° FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45° FROM THE PLANE OF THE CEILING.
 - FIXTURES SHALL NOT BE SUPPORTED FROM THE MAIN RUNNERS OR CROSS RUNNERS. FIXTURES SHALL BE INDEPENDENTLY SUPPORTED.
 - LATERAL BRACING MEMBERS SHALL BE SPACED A MINIMUM OF 6" FROM ALL HORIZONTAL PIPING OR DUCT WORK THAT IS NOT PROVIDED WITH THE BRACING RESTRAINTS FOR HORIZONTAL FORCES. BRACING WIRES SHALL BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A DESIGN LOAD OF NOT LESS THAN 200 POUNDS OR THE ACTUAL DESIGN LOAD, WHICHEVER IS GREATER, WITH A SAFETY FACTOR OF 2.

TYPICAL GYP. BD. CLG. SYSTEM
SCALE: 1" = 1'-0"

PLATFORM DETAIL
SCALE: 1-1/2" = 1'-0"

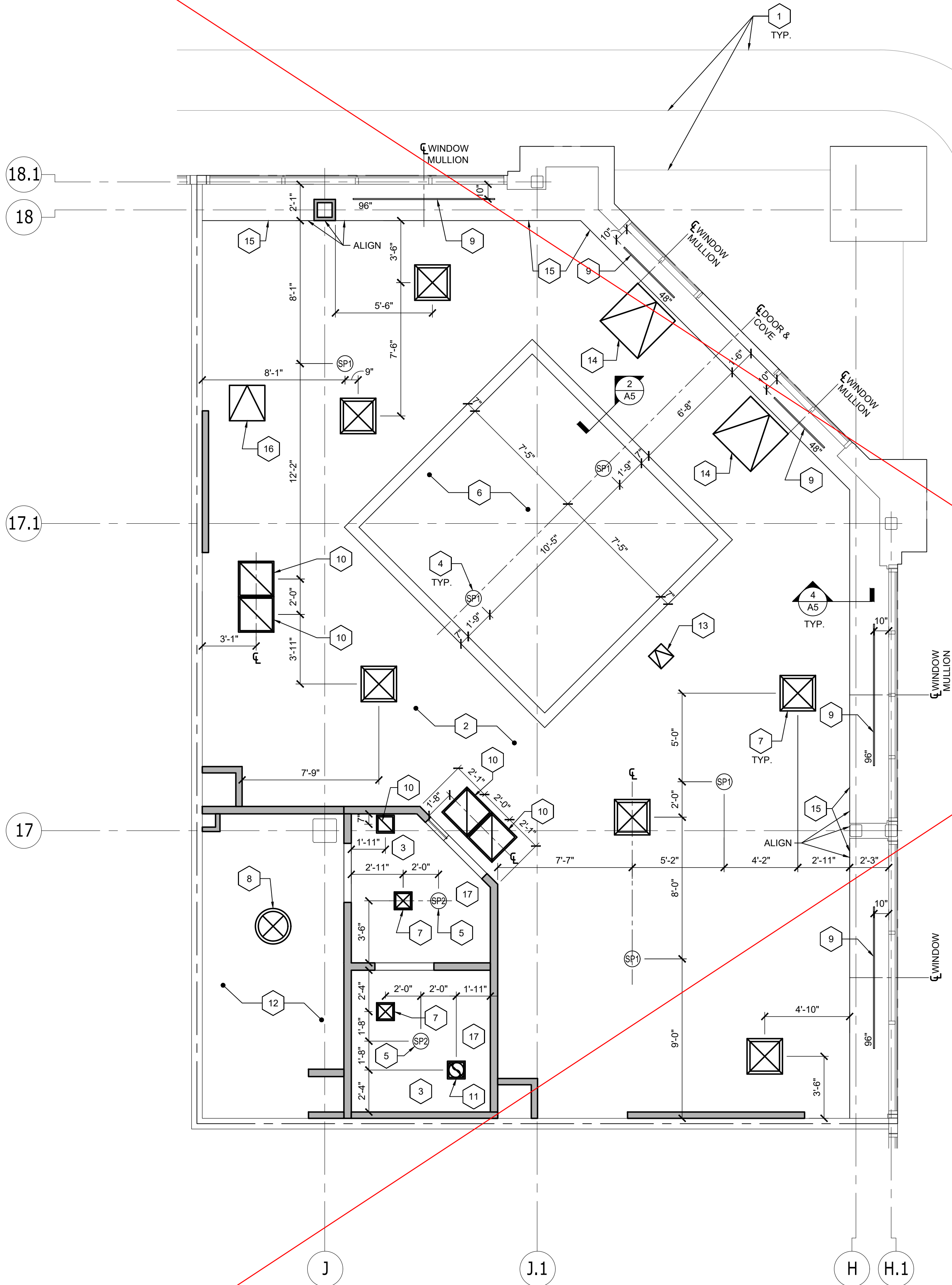


NOTE:
WAITING AREA AND TOILET ROOM DOORS SHALL HAVE A LIGHT GAUGE BOX HEADER, (2) 6" 20 GAUGE PLUS 3-5/8" 20 GAUGE TRACKS TOP AND BOTTOM WITH (2) BEARING STUDS, 20 GAUGE MIN EACH SIDE
CEMENT BOARD CAN BE USED FOR JURISDICTIONS WHERE PLYWOOD IS NOT PERMITTED



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

REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



LIGHTING FIXTURE SCHEDULE

ALL LIGHTS ARE FURNISHED BY OWNER AND INSTALLED BY GC

SYMBOL	TYPE	MANUFACTURER	PRODUCT NUMBER	FINISH	DESCRIPTION	LAMPING	MTG. METHOD	MTG. HEIGHT	VOLTS	COMMENTS
T#	TRACK	LIDO LIGHTING	CLASSIC SINGLE CIRCUIT	WHITE	SURFACE MOUNTED TRACK	---	SURFACE	CEILING HEIGHT	120	# = TRACK LENGTH, REFER TO ELECTRICAL DWGS. FOR TRACK LENGTHS; SURFACE MOUNTED; 1 CIRCUIT TRACK
○	A	TESCO LIGHTING	L-LPOC-4W-120NL-WNI-1	NICKEL	ACCENT	T2 LED, LINKABLE, 4W, 2700K	SURFACE	INSTALLED IN FIXTURE BY FIXTURE VENDOR	120	LIGHT FIXTURE AND HARDWIRE BOX (L-HWB-WH-T5-1-WHITE) TO BE PROVIDED BY FIXTURE VENDOR
□	B2	LIDO LIGHTING	2LT #AANT-2-14LED-WH	WHITE	RECESSED	(2) PAR 30 LED, 25W	RECESSED	CEILING HEIGHT	120	DRYWALL TRIM RING TO BE MUDDED IN
□	B4	LIDO LIGHTING	4LT #AANT-4-14LED-WH	WHITE	RECESSED	(4) PAR 30 LED, 50W	RECESSED	CEILING HEIGHT	120	DRYWALL TRIM RING TO BE MUDDED IN
—	C	LIDO LIGHTING	#AANT-10W-MICRO-WHITE-TRK HD	WHITE	ACCENT TRACK HEAD	INTEGRATED LED 10W MICRO TRACK HEAD	TRACK	TRACK HEIGHT	120	TRACK MOUNTED LED LAMP ADJUSTABLE ACCENT FIXTURE; ELECTRONIC BALLAST
—	C3	LIDO LIGHTING	#AANT-6610-WH	WHITE	ACCENT TRACK HEAD	INTEGRATED LED 12W MICRO TRACK HEAD	TRACK	TRACK HEIGHT	120	TRACK MOUNTED LED LAMP ADJUSTABLE ACCENT FIXTURE; ELECTRONIC BALLAST
—	D1	JUNO	T256LED-3K-WH	WHITE	WALL WASH / FLOOD	35W LED	TRACK	CEILING HEIGHT	120	FOR WINDOW GRAPHIC ILLUMINATION
⊙	EX1	ENCORE	UN06WH	WHITE	EDGE-LIT EXIT LIGHT	INCLUDED	CEILING MOUNT	---	120	SALES AREA EXIT LIGHT; EDGE LIT, USE PROVIDED 2" x 14" J-BOX FOR RECESSED MOUNT
⊙	EX2	JUNO - NAVILITE	NXPB3RWH	WHITE	EXIT LIGHT	INCLUDED	WALL MTD 6" ABOVE DR FRAME	---	120	NON-SALES AREA EXIT LIGHT, SURFACE MOUNTED, BATTERY BACK-UP
☼	F - 3"	ARTERIORS	HANLEY LARGE CHANDELIER #89013	GLASS/ POLISHED NICKEL	CHANDELIER	INCLUDED, 40W x 8	PENDANT INSTALLED WITH (3) 1" RODS	COVE HEIGHT	120	---
—	G	METALUX	SNLED-4000L-830	WHITE	STRIP LIGHT	(1) 4' STRIP LED, 23W	PENDANT	12'-0" A.F.F.	120	---
—	K	LIDO LIGHTING	SW3528-240-10-REEL	WHITE	COVE LIGHT	5W / FOOT, 3000K, 80CRI	SURFACE	COVE HEIGHT	120	CUT LED STRIP LIGHTING IN FIELD
—	W2	JUNO - NAVILITE	N2WH	WHITE	EMERGENCY LIGHT	INCLUDED	WALL / SURFACE	12'-0" STOCK / TIGHT TO CLG. / CLG. HEIGHT	120	BATTERY BACK-UP

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PAGE REVISED
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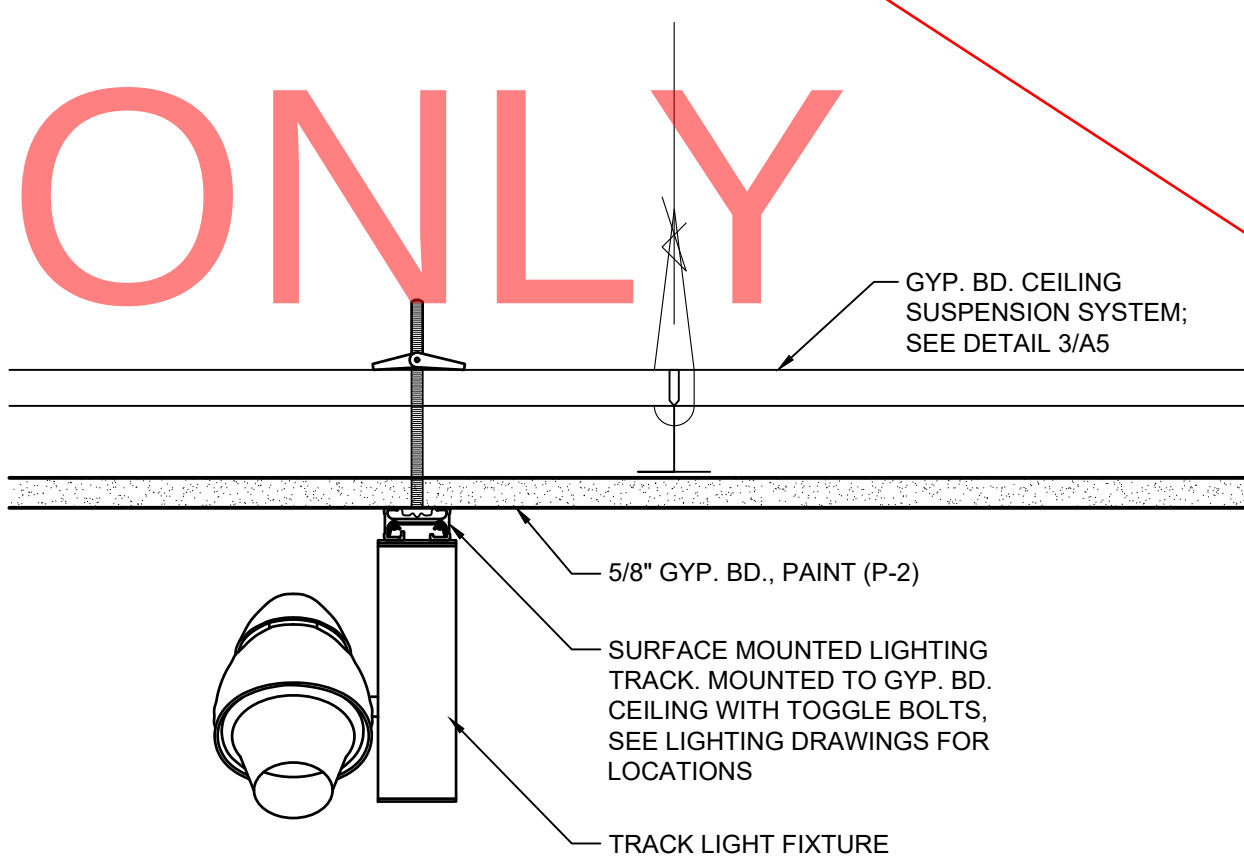
ELECTRICAL NOT PLAN
REVIEWED OR
APPROVED, SEPARATE
PERMIT REQUIRED

GENERAL NOTES:

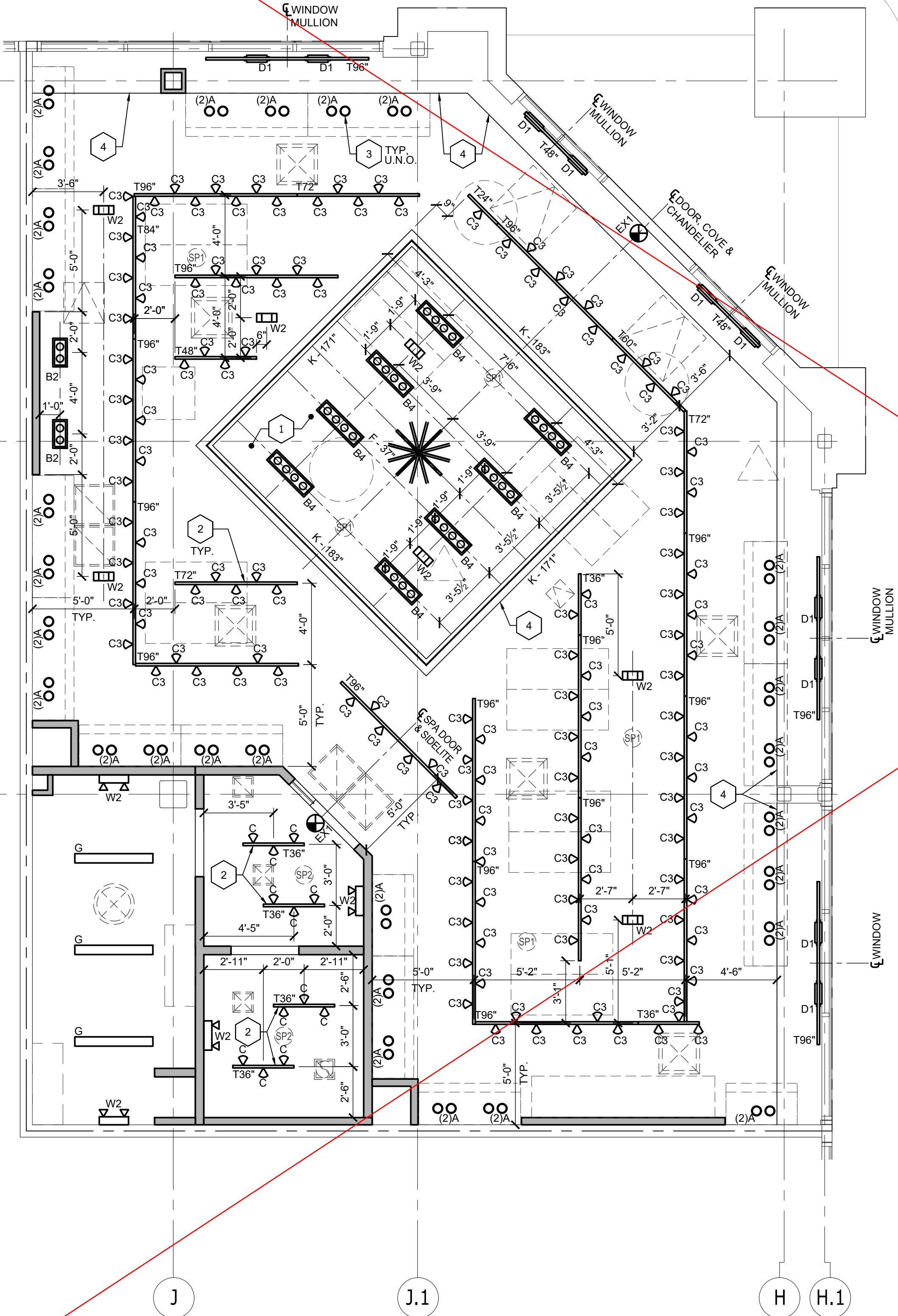
- REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- TRACK, LIGHT FIXTURES, LAMPS & TRANSFORMERS ARE FURNISHED BY BLUEMERCURY VENDOR AND INSTALLED BY G.C., UNLESS NOTED OTHERWISE.
- THE EMERGENCY LIGHTS WILL PROVIDE AN AVERAGE OF ONE (1) FOOTCANDLE ALONG THE ENTIRE MEANS OF EGRESS PER NFPA 101: 7.9.
- REFER TO SHEET A5 FOR REFLECTED CEILING PLAN NOTES AND DETAILS.
- DIMENSIONS ARE TO THE CENTERLINE OF OBJECTS, UNLESS NOTED OTHERWISE.
- ALL SPRINKLER HEADS IN STOCK ROOM TO BE 18" ABOVE THE HIGHEST STOCK SHELF (MINIMUM).
- LIGHTING TRACK TO BE CUT IN FIELD BY G.C. AS REQUIRED TO MATCH LENGTHS SHOWN IN PLAN.
- QUANTITY, LOCATION, AND TYPE OF EMERGENCY LIGHTS AND EXIT LIGHTS SHALL MEET ALL LOCAL CODES AND REQUIREMENTS.

KEY NOTES:

- DRIVERS FOR ALL THE LIGHT FIXTURES WITHIN THE COVE NEED TO BE NEAR AN ACCESS PANEL OUTSIDE OF THE COVE AREA, NO DRIVERS ARE TO BE IN THE COVE AREA.
- SALES AREA, WAITING ROOM & TOILET ROOM TRACK TO BE SURFACE MOUNTED WITH TOGGLE BOLTS PROVIDED BY OWNER'S VENDOR ON GYP. BD CEILING. SEE DETAIL 2/A6.
- PRE-INSTALLED LIGHT FIXTURES IN PERIMETER WALL FIXTURES TO BE COORDINATED WITH FIXTURE PACKAGE. SEE ELECTRICAL PLANS FOR DETAILS. FINAL CONNECTIONS BY G.C.
- GYP. BD. SOFFIT, SEE SHEET A5.



TRACK HANGING
DETAIL ON GYP. BD.
SCALE: 3" = 1'-0"



1
A6 LIGHTING PLAN
SCALE: 1/4" = 1'-0"

LIGHTING
PLAN

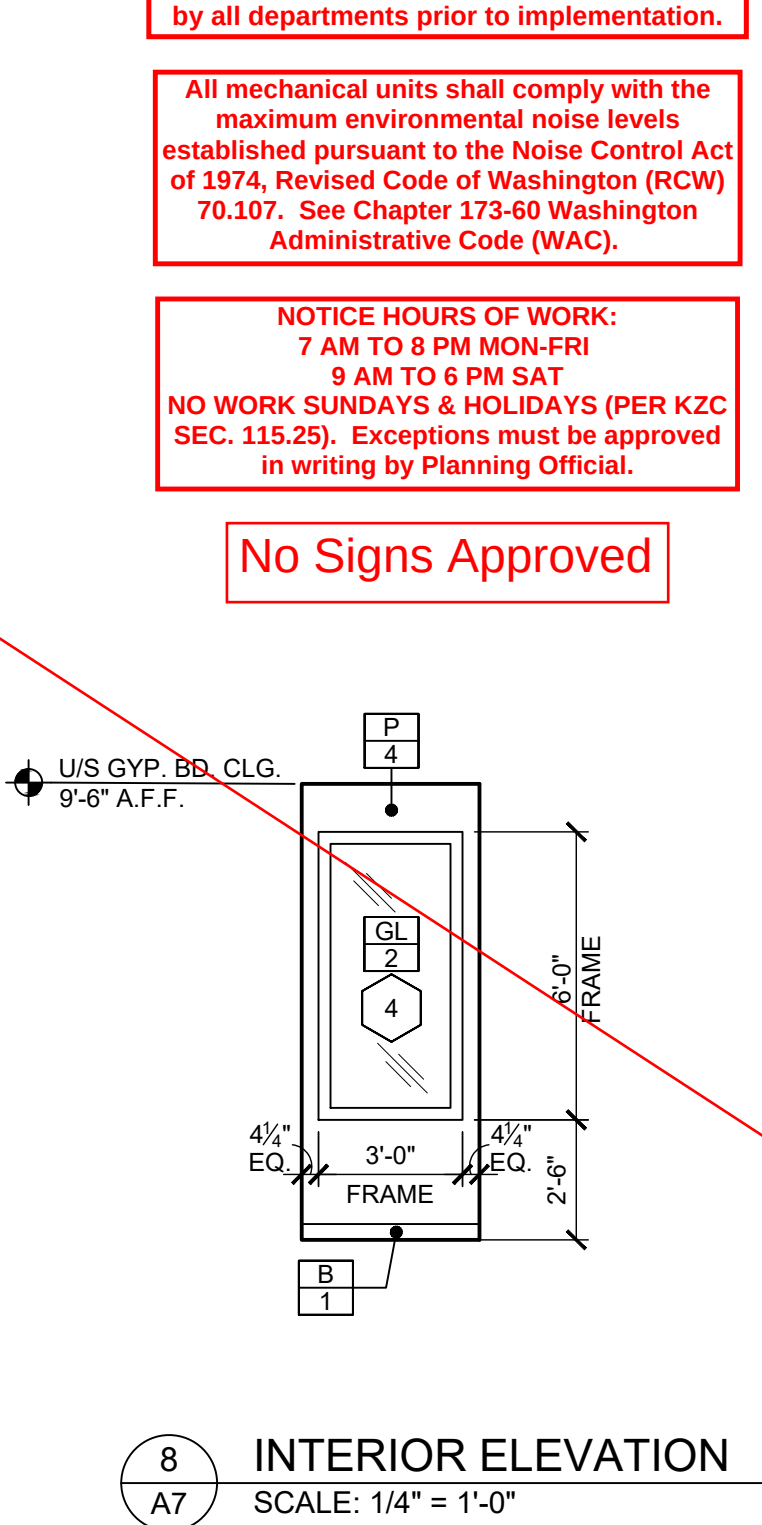
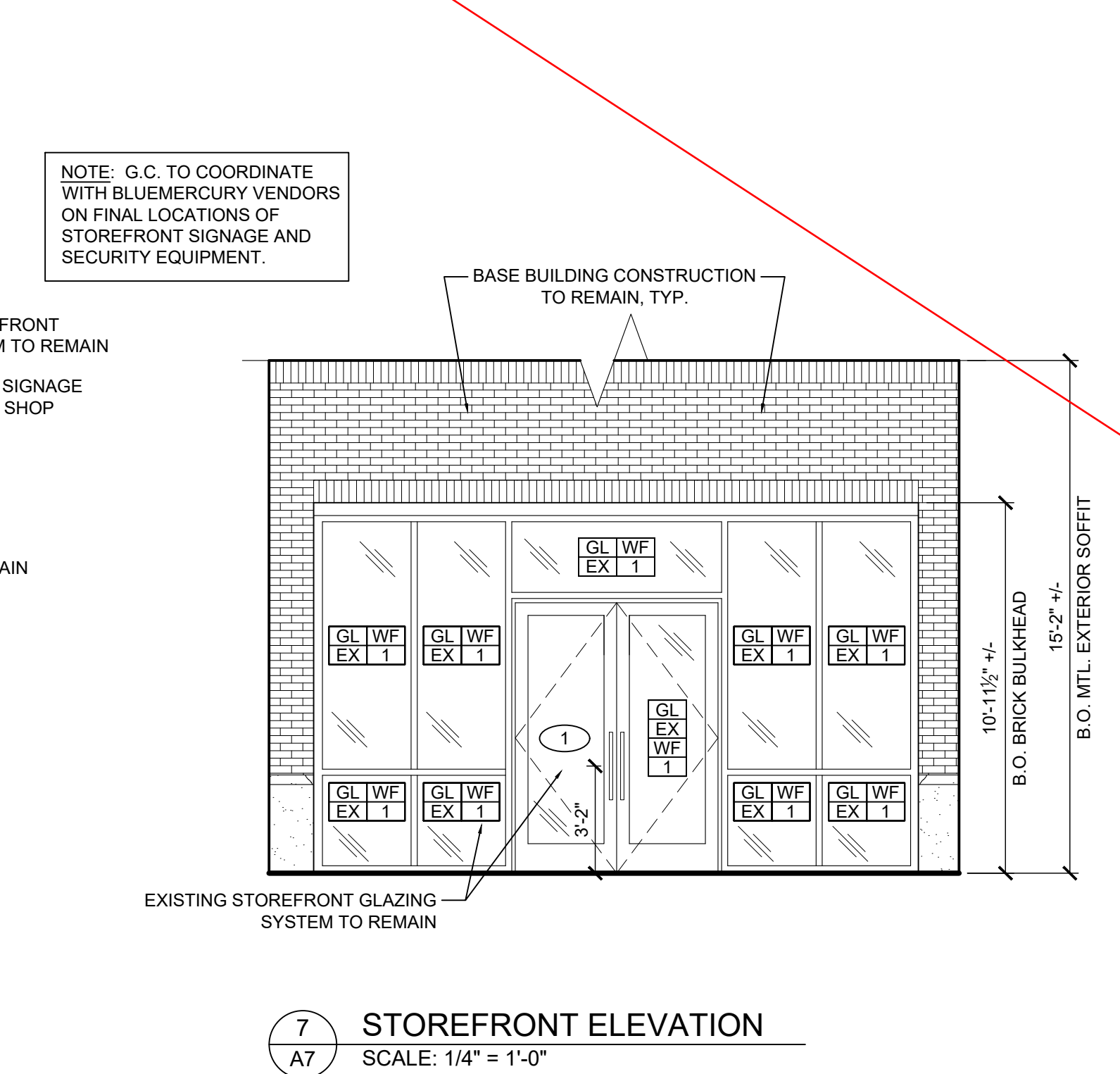
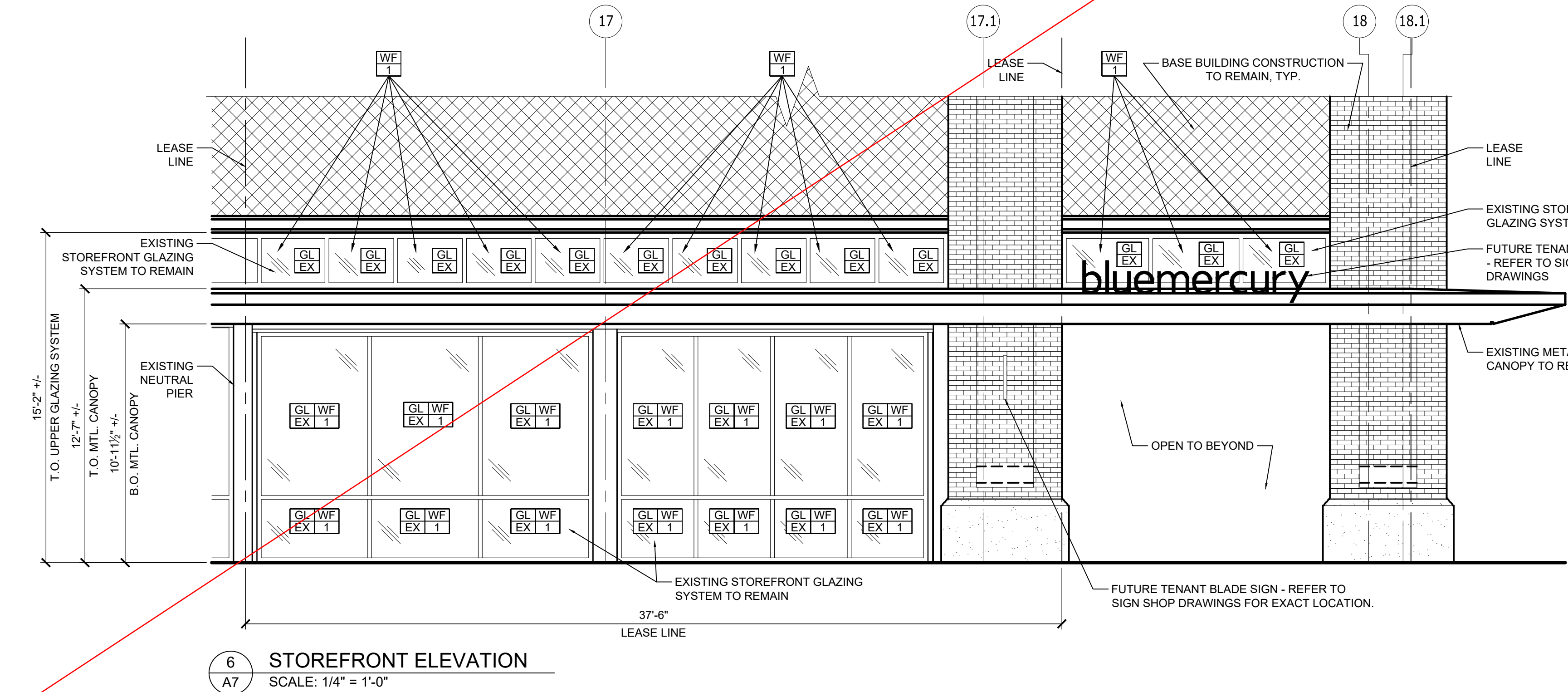
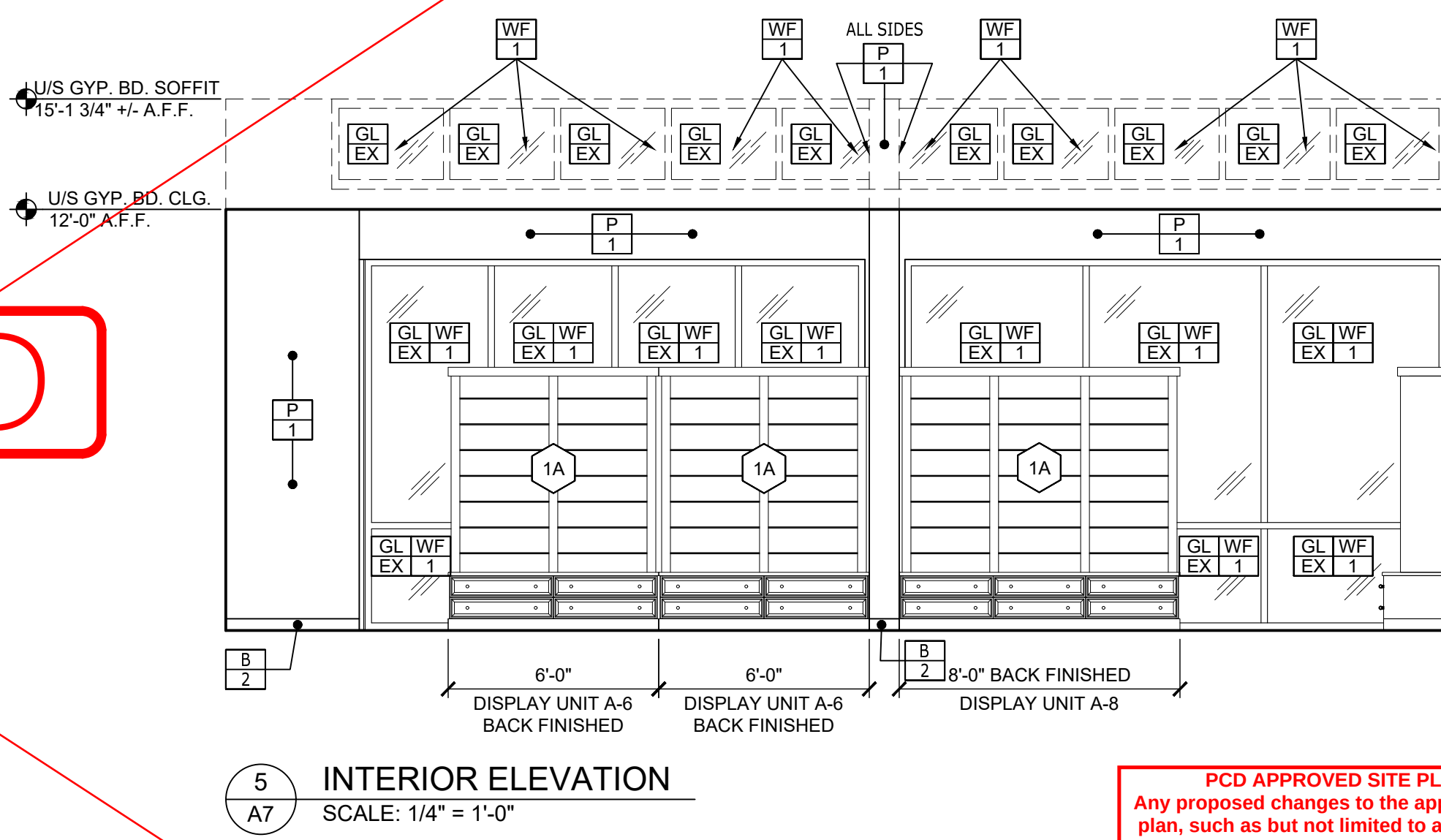
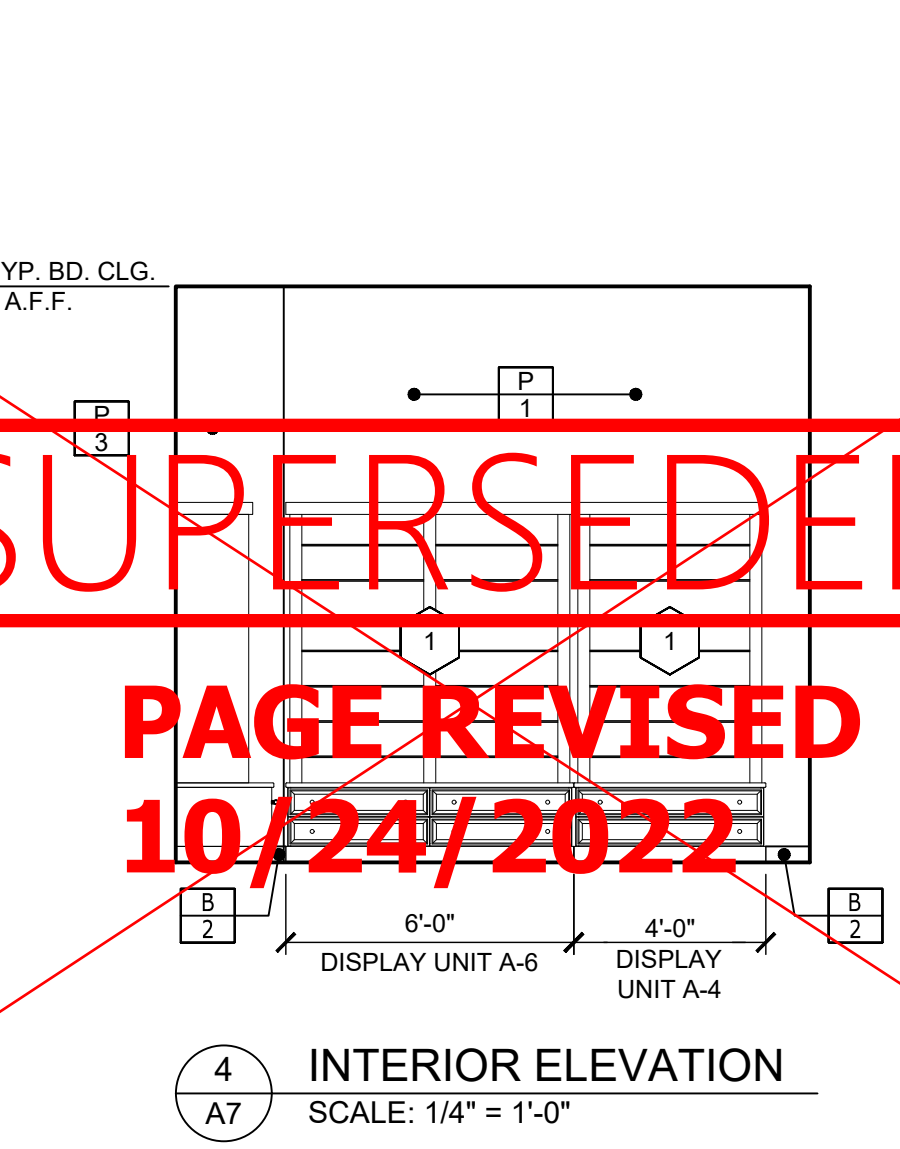
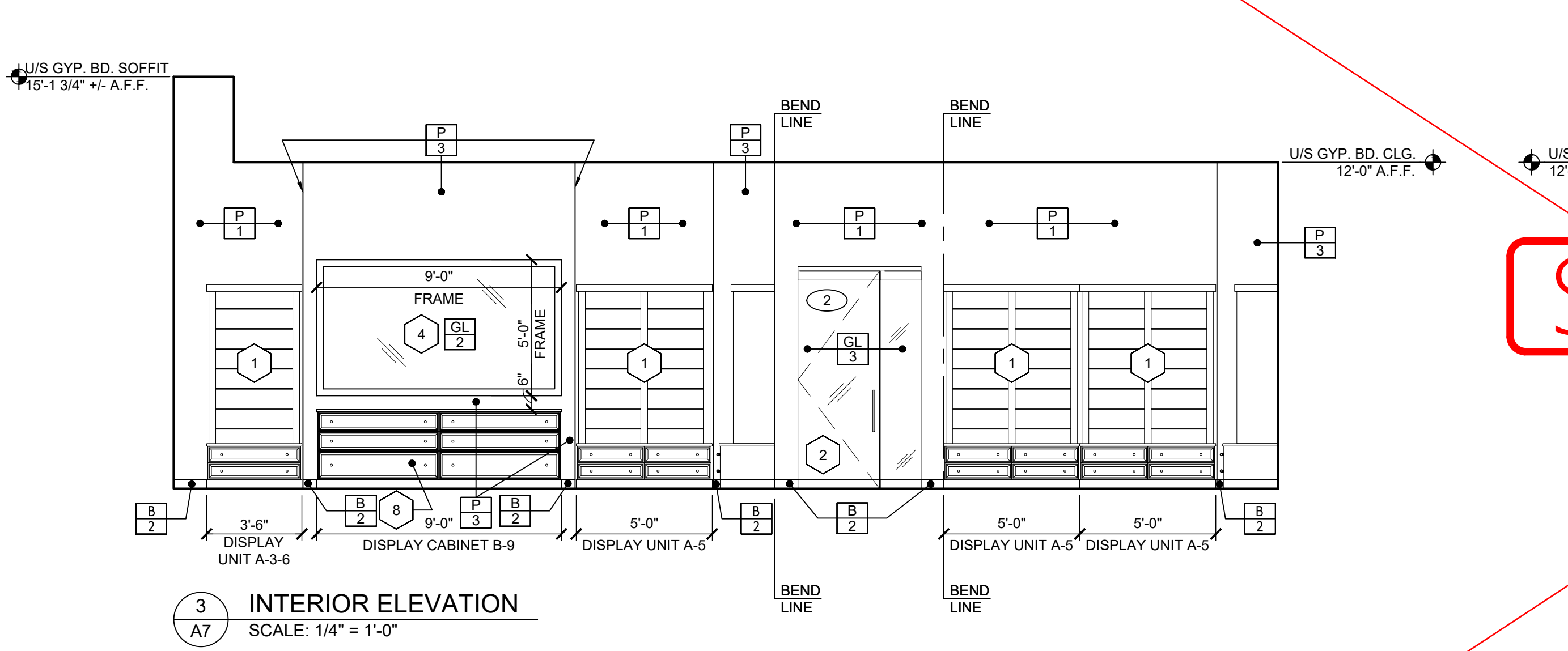
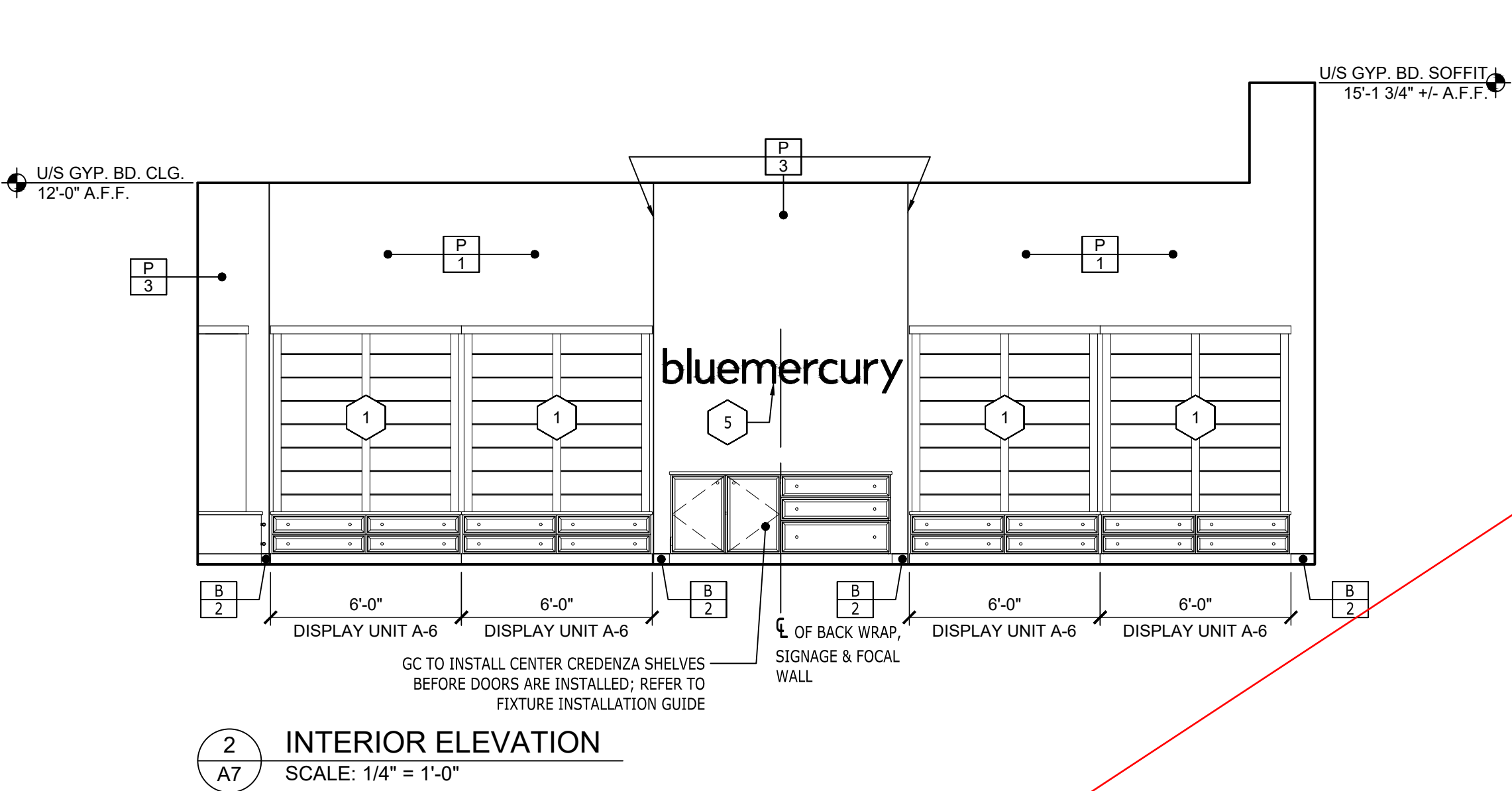
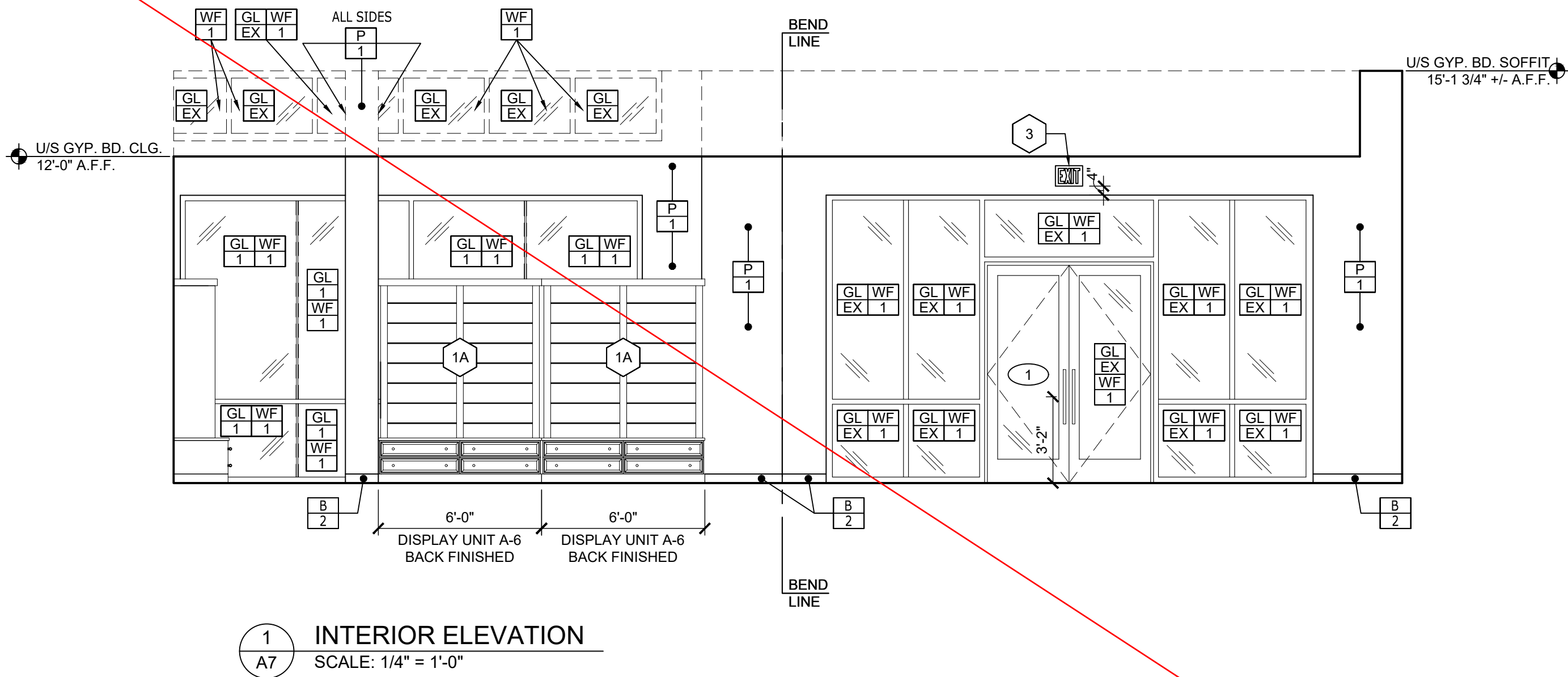
A6

GENERAL NOTES:

- SEE SHEET IS2 FOR FINISH SCHEDULE.
- G.C. TO TOUCH UP ALL BLUEMERCURY FURNISHED FIXTURE MATERIAL AFTER INSTALLATION.
- G.C. SHALL REFER TO FIXTURE INSTALLATION HANDBOOK FOR ADDITIONAL INFORMATION.
- REFER TO SHEET IS2 FOR INFORMATION REGARDING PAINTING OF STOCK ROOM WALLS.
- SEE SHEET A4 FOR ACCENT WALL LOCATIONS IN PLAN VIEW.
- ALL VENDOR PROVIDED 4" WOOD BASE TO BE SCRIBED TO FLOOR TO MATCH DIMENSIONS ON PLANS. GC TO PAINT WALL BASE AS INDICATED IN FINISH SCHEDULE ON SHEET IS2.

KEY NOTES:

- PERIMETER UNIT MILLWORK FURNISHED BY BLUEMERCURY VENDOR & INSTALLED BY G.C. G.C. TO REFER TO THE FIXTURE INSTALLATION GUIDE FOR INSTALLATION INSTRUCTIONS FOR THE HARDWARE & SHELVE. SHELVE'S PLACEMENT: G.C. SHALL PLACE GLASS SHELVE'S STARTING WITH THE TOP SHELVE FOUR PEGS DOWN FROM THE TOP AND EVERY SHELVE BELOW THAT SEVEN PEGS DOWN.
- 1A. G.C. TO INSTALL VENDOR PROVIDED PLEXI GLASS TO INSIDE OF BACK OF FIXTURE.
- GLASS DOOR & SIDELITE FURNISHED & INSTALLED BY G.C. (GL-3) GLASS TO BE FROSTED ON WAITING ROOM SIDE. SEE DOOR SCHEDULE ON SHEET IS2 FOR MORE INFORMATION.
- EXIT SIGN, CENTER ON OPENING. SEE ELECTRICAL PLANS.
- MIRROR (GL-2) FURNISHED & INSTALLED BY G.C. FRAME TO BE PAINTED P-7, FURNISHED & PAINTED BY OWNER'S VENDOR. G.C. TO CUT AS NECESSARY IN FIELD. GC TO INSTALL OVER MIRROR AND SECURE TO WALL WITH HIDDEN HARDWARE. VENDOR TO PROVIDE EXTRA TOUCH UP PAINT TO THE FIELD FOR THE FRAME.
- 'BLUEMERCURY' LOGO - PIN MOUNTED LETTERS FURNISHED BY SIGN VENDOR & INSTALLED BY G.C.
- NOT USED.
- NOT USED.
- GC TO SECURE BUREAU TO WALL WITH VENDOR PROVIDED SCREWS.



PCD APPROVED SITE PLAN
Any proposed changes to the approved site plan, such as but not limited to added hard surfaces, HVAC units, tree removals and accessory structures, must be submitted to the Planning and Building Department as a revision to the permit for review and approval by all departments prior to implementation.

All mechanical units shall comply with the maximum environmental noise levels established pursuant to the Noise Control Act of 1974, Revised Code of Washington (RCW) 70.107. See Chapter 173-60 Washington Administrative Code (WAC).

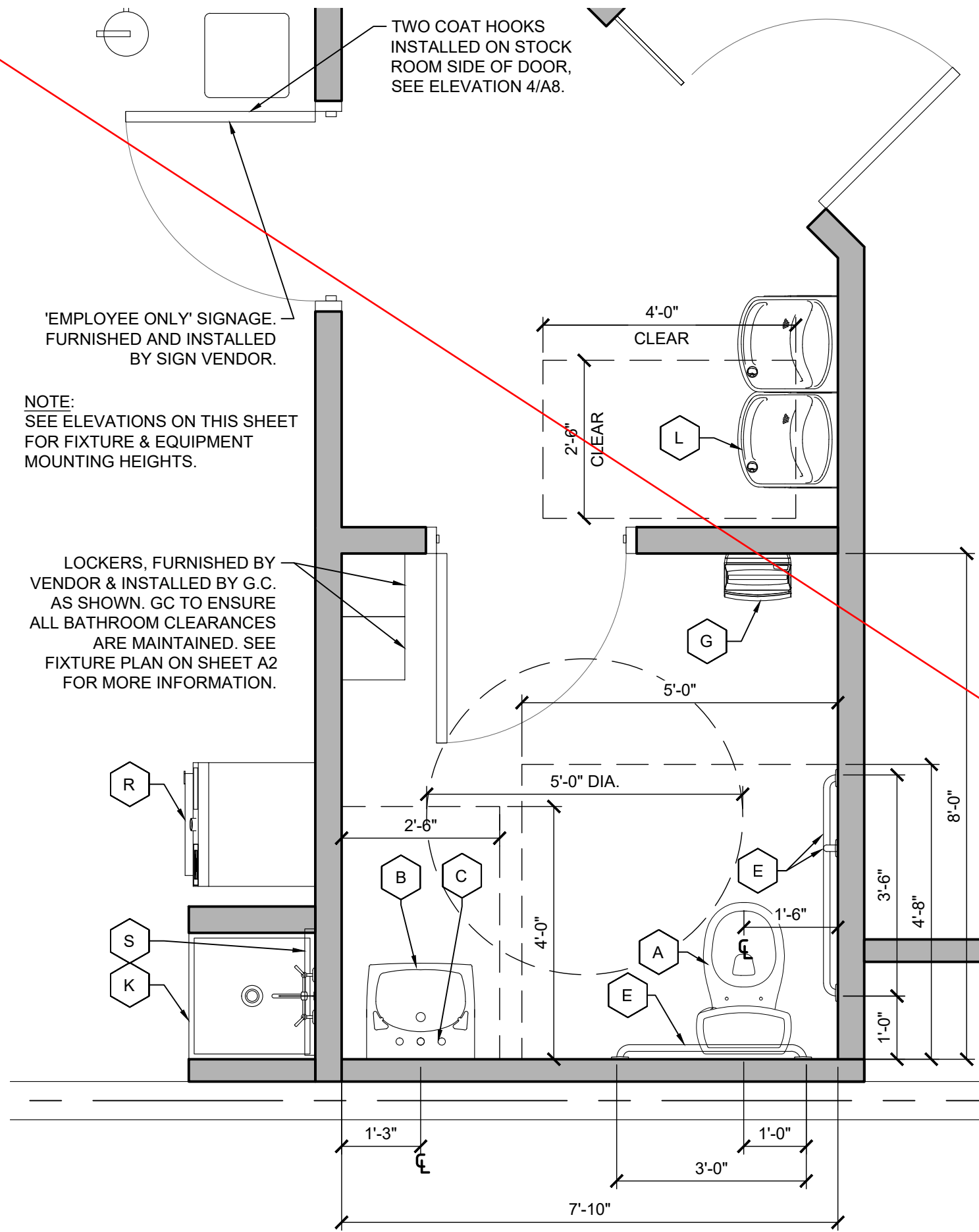
NOTICE HOURS OF WORK:
7 AM TO 8 PM MON-FRI
9 AM TO 6 PM SAT
NO WORK SUNDAYS & HOLIDAYS (PER KZC SEC. 115.25). Exceptions must be approved in writing by Planning Official.

No Signs Approved

NO.	DATE	DESCRIPTION
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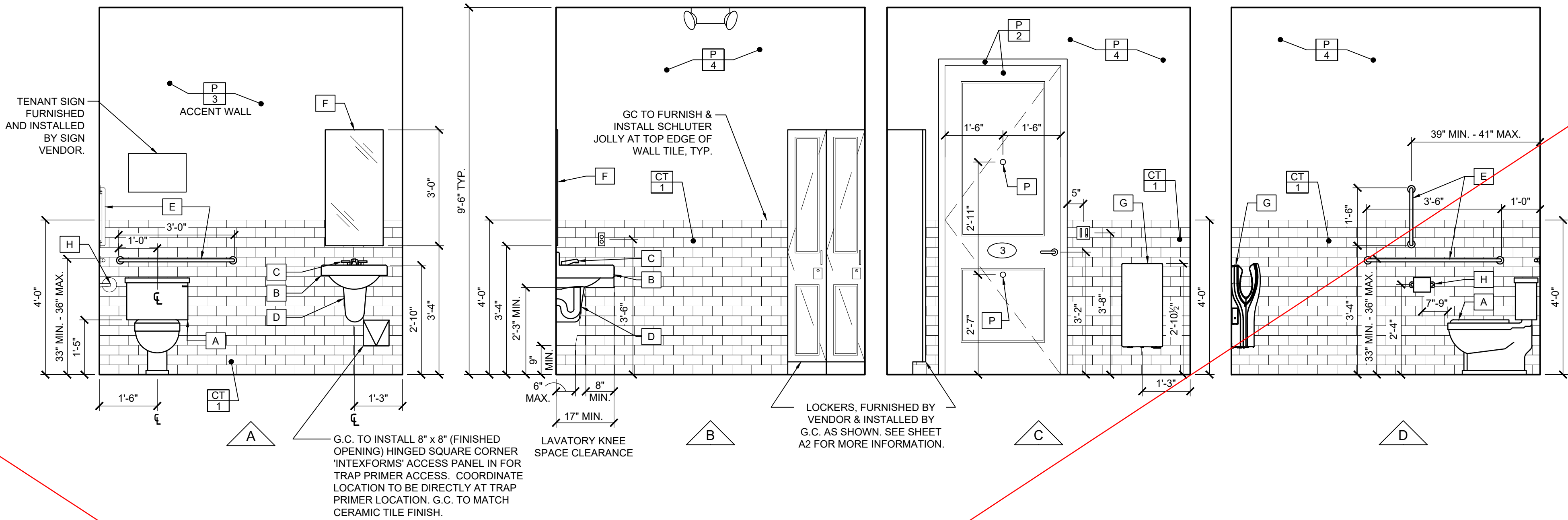
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DRAWN BY:	LGA
PROJECT NO.:	22129
FILE NAME:	22129_The Village at Totem Lake.dwg

INTERIOR AND
STOREFRONT
ELEVATIONS

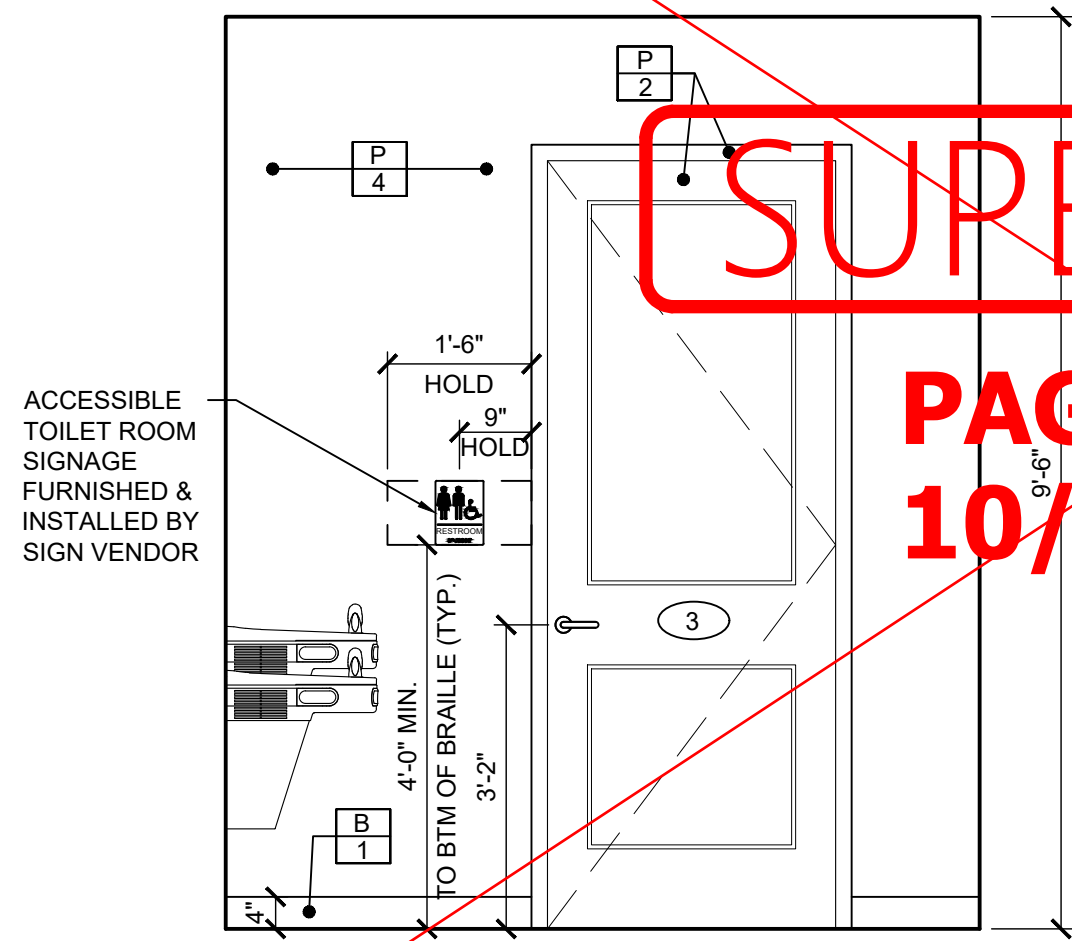


1
A8
TOILET ROOM
CLEARANCE PLAN
SCALE: 1/2" = 1'-0"

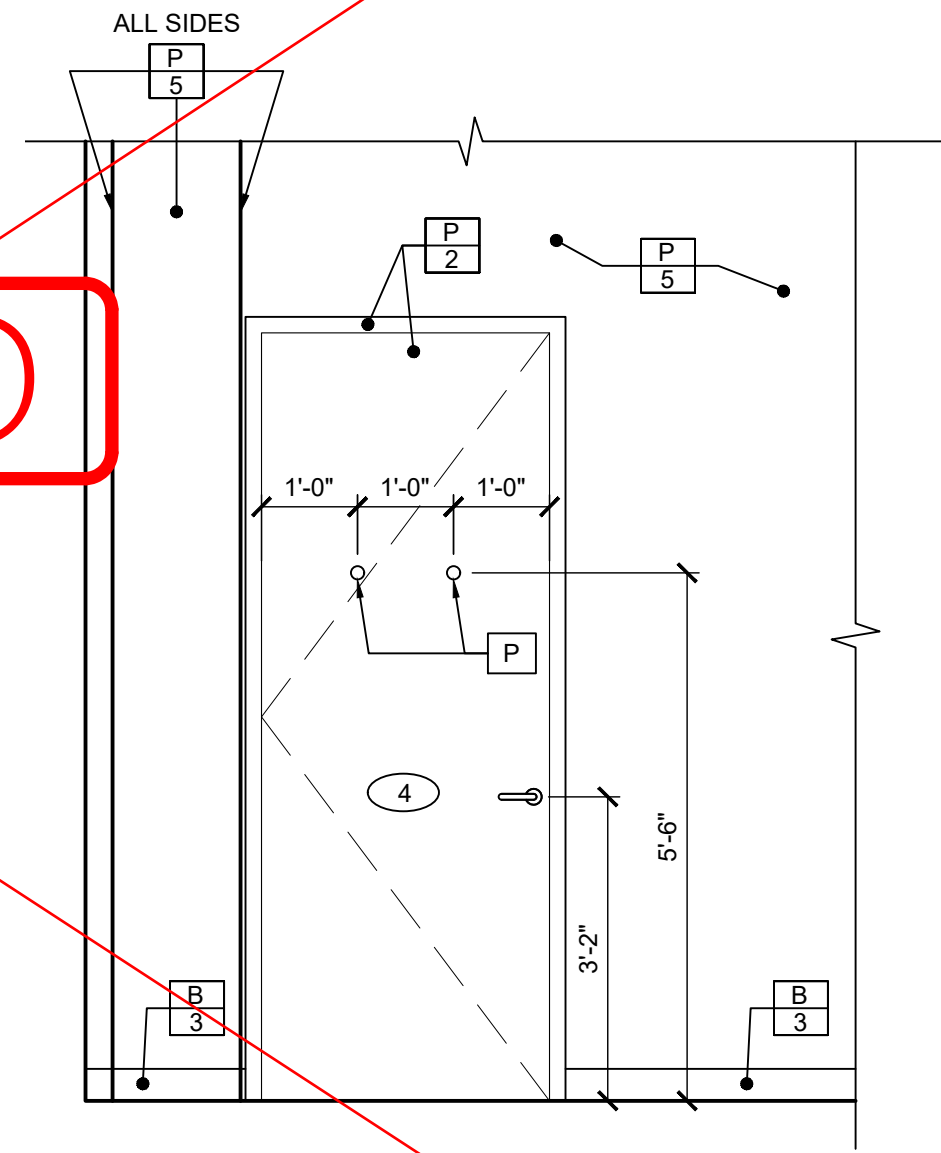
- GENERAL TOILET ROOM NOTES
- G.C. SHALL FURNISH & INSTALL NEW ACCESSORIES IF EXISTING ACCESSORIES TO BE REUSED ARE NOT IN ACCORDANCE WITH CURRENT ADA REGULATIONS AND/OR DO NOT MEET REQUIREMENTS OF DRAWINGS.
 - G.C. SHALL FURNISH & INSTALL GRAB BARS SO THAT THEY DO NOT ROTATE AND THERE ARE TO BE NO SHARP OR ABRASIVE ELEMENTS ON OR ADJACENT TO THEM. EDGES ARE TO HAVE A MINIMUM 1/8" RADIUS.
 - G.C. SHALL ENSURE THAT GRAB BAR BACKING AND ATTACHMENT SHALL BE CONSTRUCTED FOR A 250 POUND POINT LOAD.
 - G.C. SHALL INSULATE OR COVER ALL HOT WATER AND DRAIN PIPES UNDER LAVATORY. NO SHARP OR ABRASIVE SURFACES ALLOWED UNDER LAVATORY.
 - G.C. SHALL ENSURE THAT FAUCET CONTROLS AND OPERATING MECHANISMS ARE EASILY OPERATED BY ONE HAND AND MUST NOT REQUIRE GRASPING, PINCHING, OR TWISTING OF THE WRIST. FORCE NEEDED TO ACTIVATE CONTROLS SHALL NOT EXCEED 5 LBS. FOR LEVER OPERATED OR 15 LBS. FOR PUSH TYPE.
 - G.C. SHALL FURNISH & INSTALL SOLID BLOCKING IN WALL FOR ALL TOILET ACCESSORIES.
 - ALL TOILET ROOM SIGNAGE TO BE FURNISHED AND INSTALLED BY SIGN VENDOR.



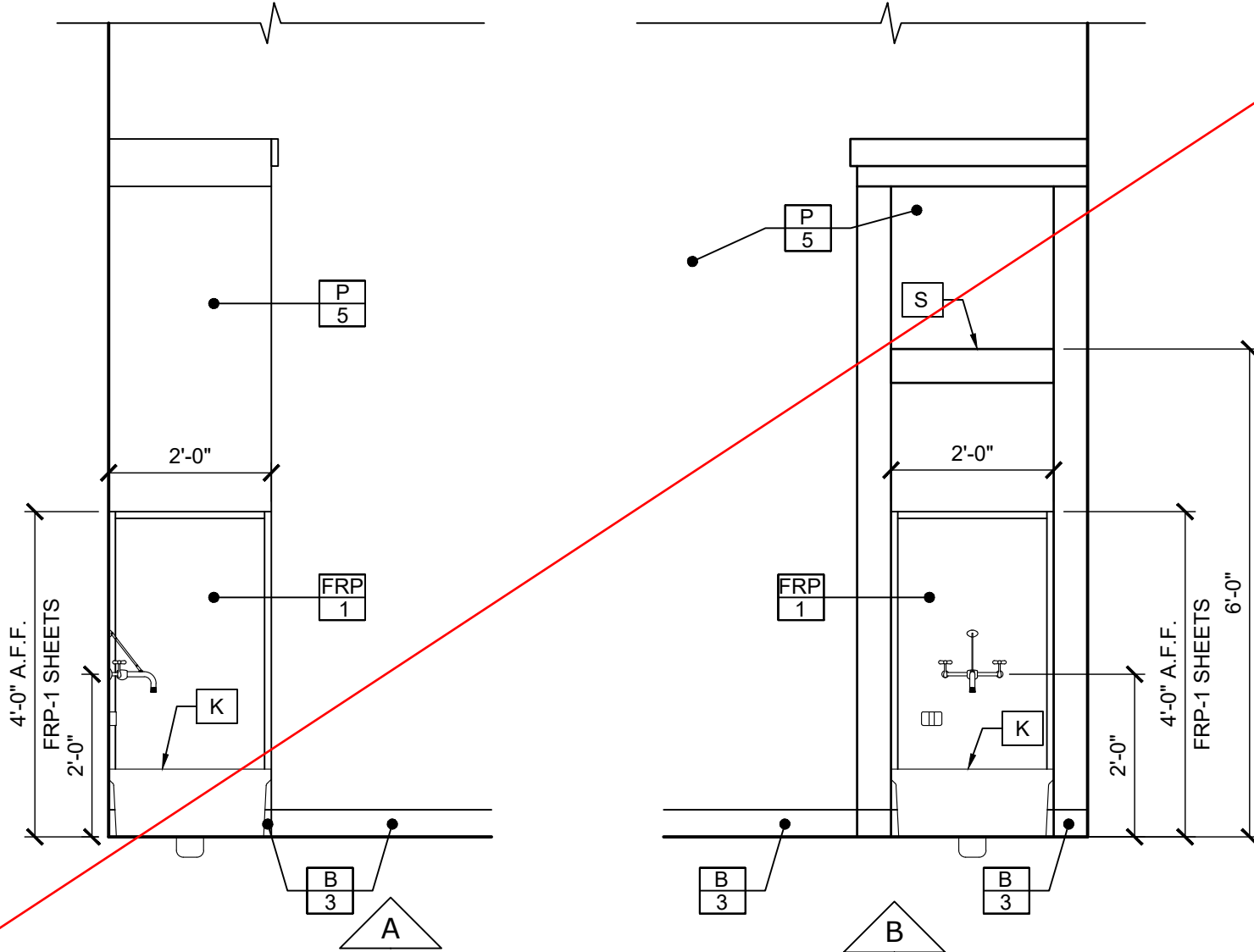
2
A8
TOILET ROOM ELEVATIONS
SCALE: 1/2" = 1'-0"



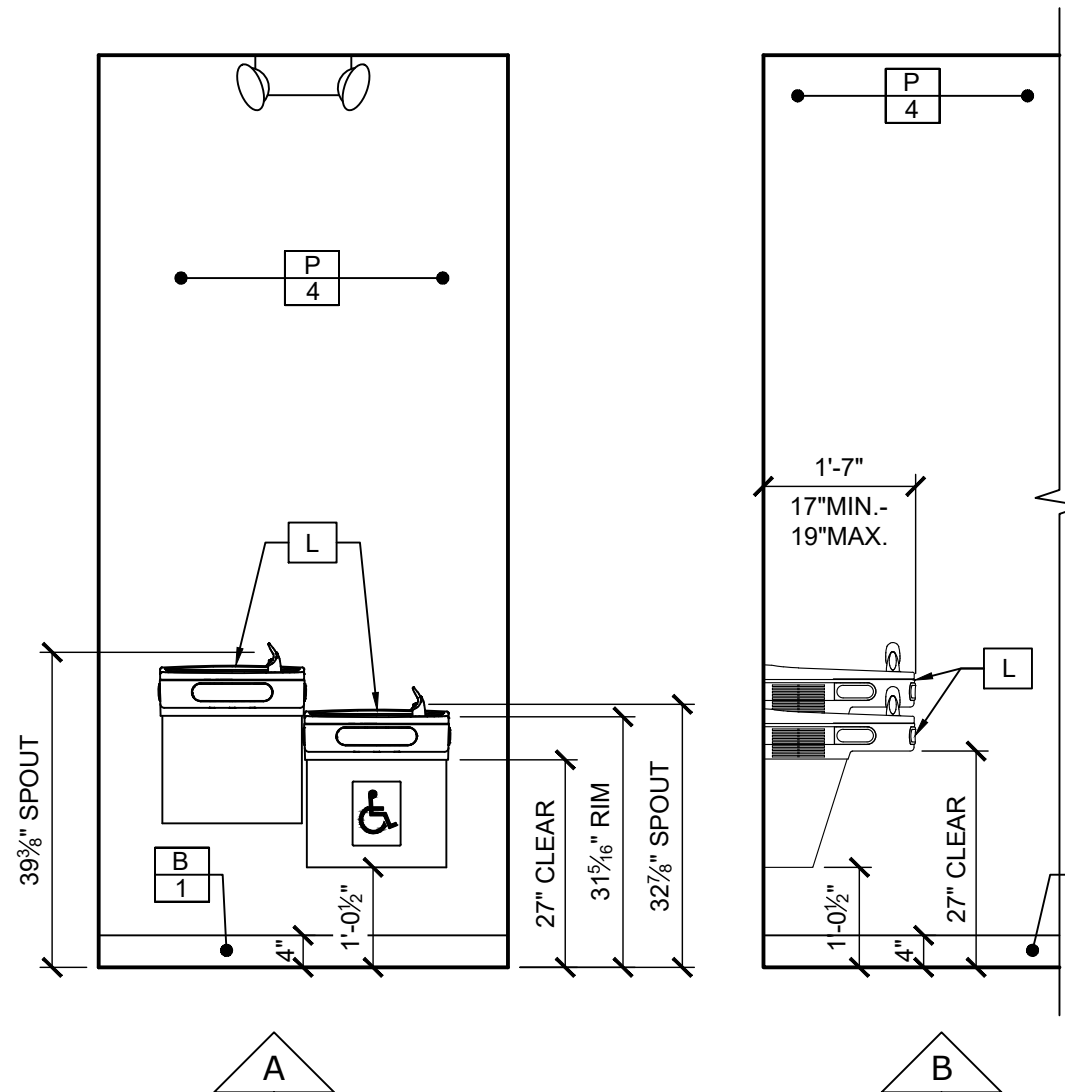
3
A8
EXTERIOR TOILET ROOM ELEVATION
SCALE: 1/2" = 1'-0"



4
A8
STOCK ROOM DOOR ELEVATION
SCALE: 1/2" = 1'-0"



5
A8
MOP SINK ELEVATIONS
SCALE: 1/2" = 1'-0"



6
A8
HI-LO DRINKING
FOUNTAIN ELEVATIONS
SCALE: 1/2" = 1'-0"

TOILET ROOM COMPONENT SCHEDULE					
MARK	ITEM	MODEL #	EXIST. TO REMAIN	NEW (ADD/REPLACE)	NOTES
A	TOILET	SEE MECHANICAL PLANS	--	1	--
	TOILET SEAT	SEE MECHANICAL PLANS	--	1	--
B	SINK	SEE MECHANICAL PLANS	--	1	--
C	LEVER HANDLE FAUCET	SEE MECHANICAL PLANS	--	1	--
D	PIPE SHROUD	SEE MECHANICAL PLANS	--	1	WHITE **
E	GRAB BARS (SET)	BOBRICK (1) B-6806x36, (1) B-6806x42, & (1) B-6806x18	--	1	--
F	MIRROR	BOBRICK B-290-1836	--	1	--
G	HAND DRYER	SANIFLOW DUALFLOW PLUS M14A-UL	--	1	ADJUST TO ECO-SETTING
H	TOILET PAPER HOLDER	CRW TOILET PAPER HOLDER WITH DUST-PROOF COVER - CHROME, 9011	--	1	CHROME-STYLE-A
	WATER HEATER	SEE MECHANICAL PLANS	--	1	TANK
	EXHAUST FAN	SEE MECHANICAL PLANS	--	1	--
K	MOP SINK	SEE MECHANICAL PLANS	--	1	--
L	DRINKING FOUNTAIN	SEE MECHANICAL PLANS	--	1	--
M	NOT USED		--		
N	NOT USED		--		
P	COAT HOOK	DOUG MOCKETT CH23-SSS	--	4	--
Q	NOT USED		--		
R	WASHING MACHINE	SEE MECHANICAL PLANS & SHEET A2	--	1	STACKABLE WITH DRYER
S	MOP HOLDER	BOBRICK B-223 x 24	--	1	--
	TRASH CAN	SIMPLEHUMAN ROUND STEP TRASH CAN, BRUSHED STAINLESS STEEL, 1.2-GALLON	--	1	--
**INSURE ALL PIPES AND VALVES ARE INSIDE SHROUD OR WALL W/ ACCESS PANEL.					
G.C. TO ENSURE THE EXTG ITEMS COMPLY WITH NOTES ON THIS PAGE (VERIFY IN FIELD BEFORE BIDDING). IF G.C. IS PRESENTED WITH LONG LEAD TIMES, THEY MUST PRESENT A CUT SHEET OF PROPOSED SUBSTITUTION TO BLUEMERCURY PROJECT MANAGER.					
NOTE: THE G.C. SHALL FURNISH & INSTALL TOILET ROOM COMPONENTS LISTED ON SCHEDULE					

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PCD APPROVED SITE PLAN
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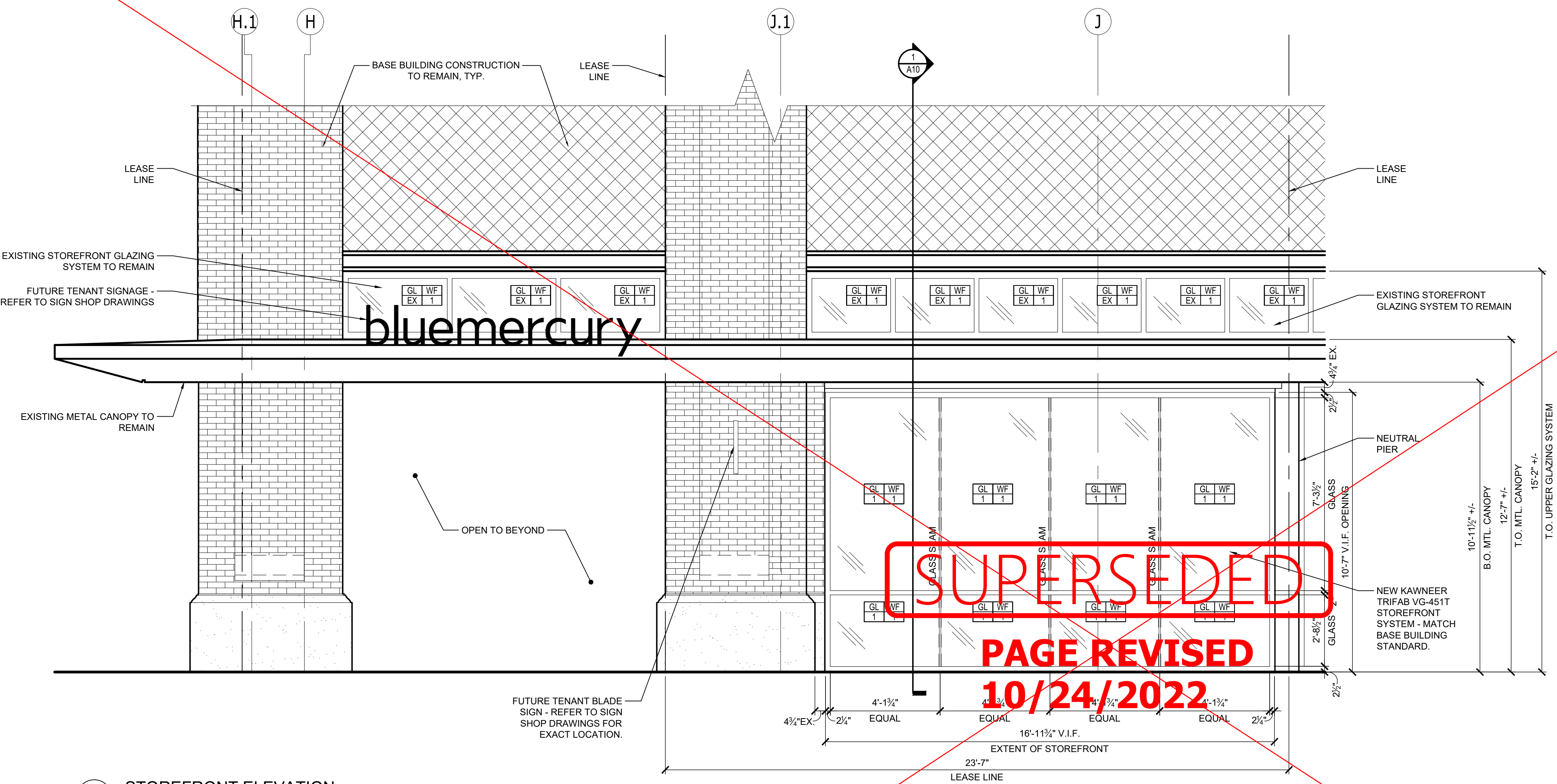
DATE:	07/18/2022
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PROJECT NO.:	22129
FILE NAME:	22129_The Village at Totem Lake.dwg

STOREFRONT ELEVATION AND PLAN

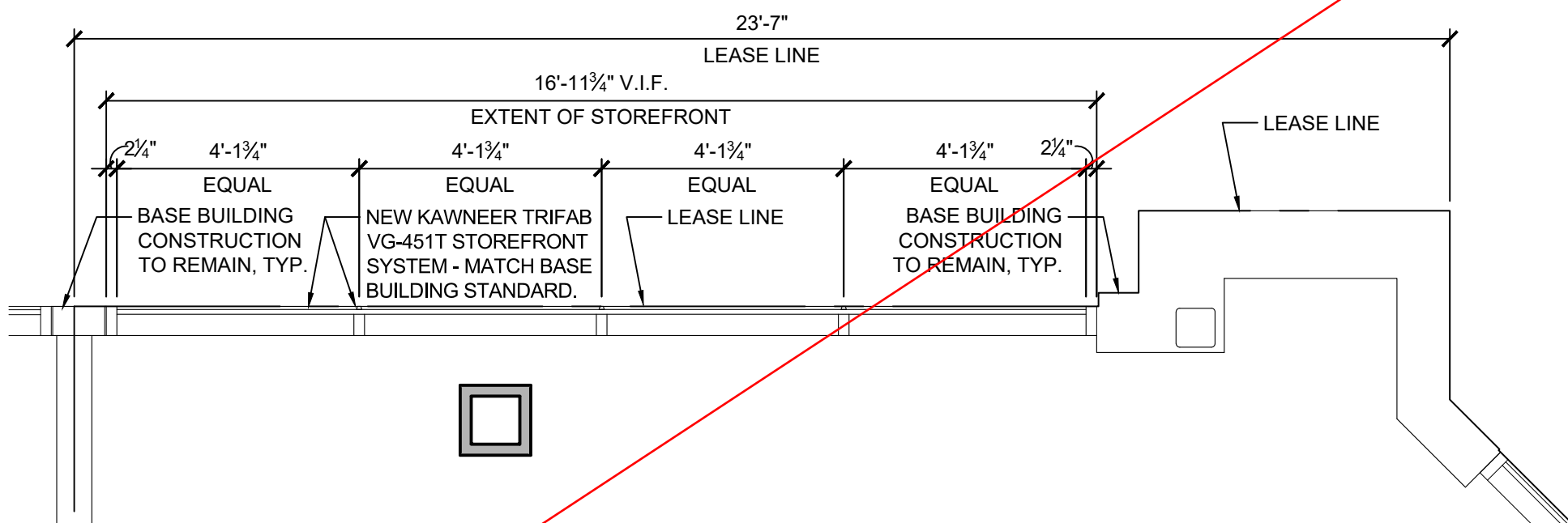
~~A9~~

GRAPHIC SCALE:

y TI- 8.31.22 Page 14 of 27



1 STOREFRONT ELEVATION
A9 SCALE: 3/8" = 1'-0"

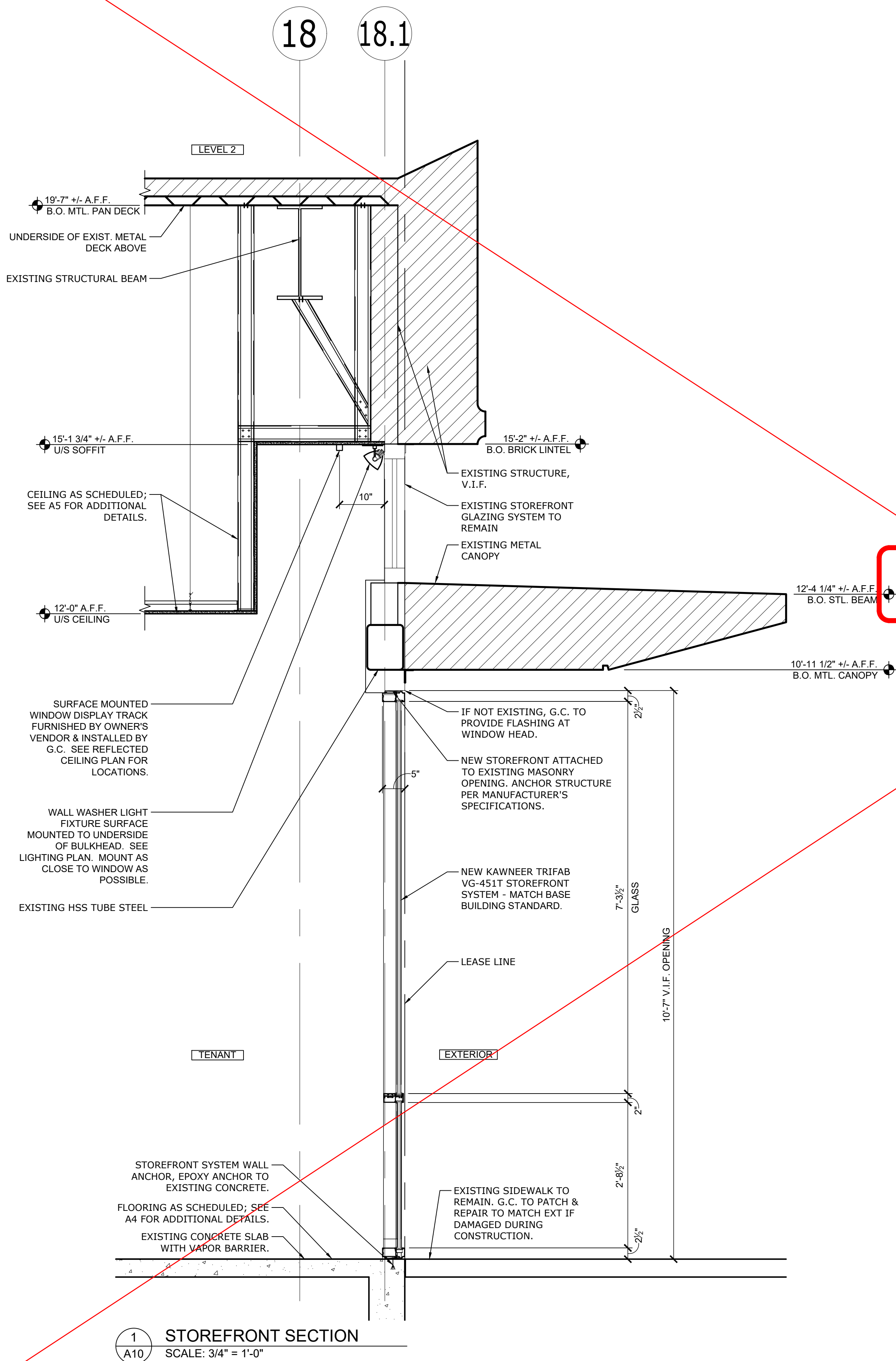


2 ENLARGED STOREFRONT PLAN
A9 SCALE: 3/8" = 1'-0"

DRAWING LOCATION: N:\blue\mercury\2022 Stores\22129 - The Village at Totem Lake - Kirkland, WA_REVIT-CADD\22129_The Village at Totem Lake.dwg

~~PRINT DATE & TIME~~ July 18, 2022 - 5:56 pm

PRINT DATE & TIME: July 18, 2022 - 5:06 pm
DRAWING LOCATION: N:\bluemercury\2022 Stores\2129 - The Village at Totem Lake - Kirkland, WA - REVIT-CADD\2129 - The Village at Totem Lake.dwg

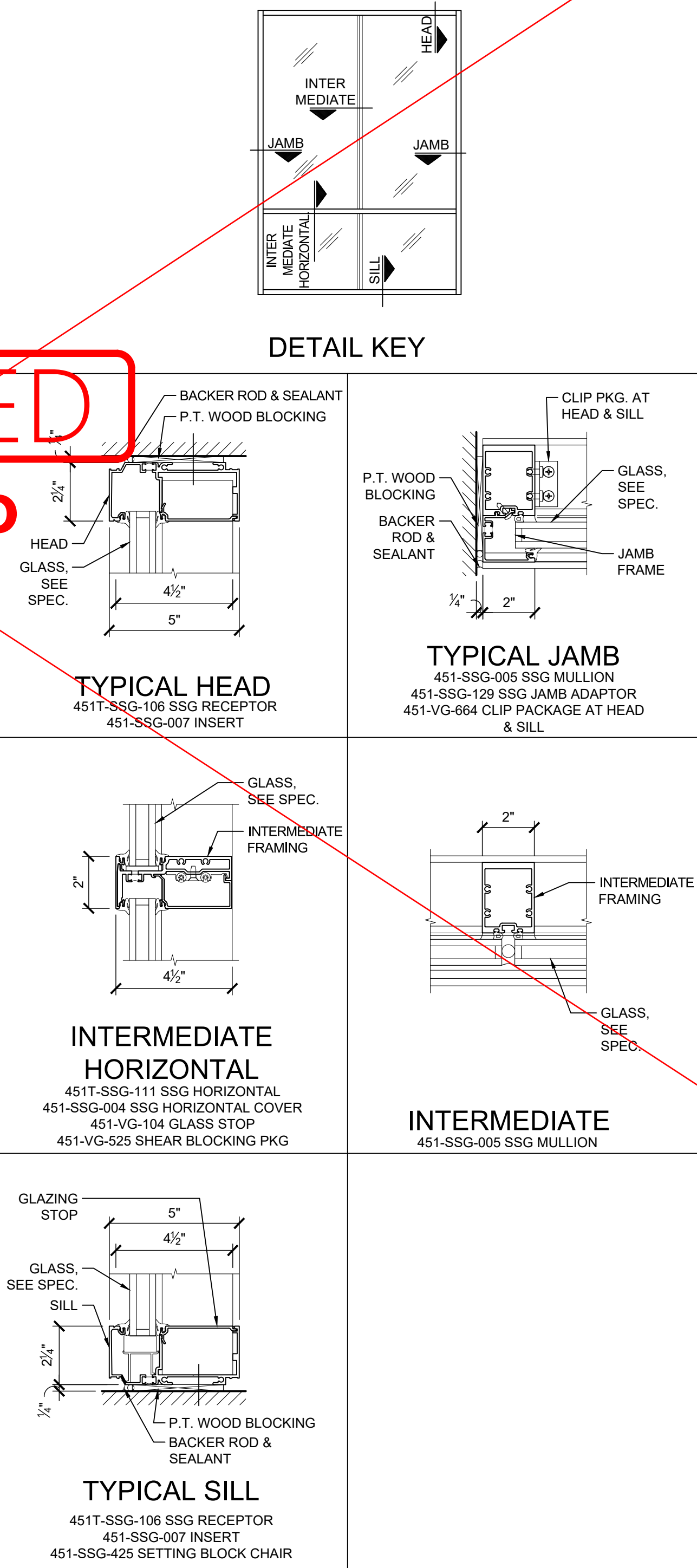


STOREFRONT SYSTEM SPECIFICATION

A complete aluminum framed glass storefront system with all components, and accessories is the responsibility of the General Contractor (GC) according to the following brief specification. Verify and match base building standard:

- METAL FRAMED STOREFRONT** SECTION 08410
- FRAMING** - Furnished & Installed by GC
4 1/2" x 2" extruded aluminum members similar to Trifab 451T from KAWNEER Co. Aluminum sections with drainage holes and internal weep drainage system. Anchor and flash per manufacturer's directions. Match base building standard finish.
- GLASS** - Furnished & Installed by GC
1" tempered double pane insulating clear glass with Low-E coating in the storefront. Glass to be a 0.38 maximum U-factor and SHGC of 0.61 maximum.
- FILM** - Furnished & Installed by GC
Window Film (WF-1) applied to the interior of storefront glass. See Sheet IS2 for specification.

TYPICAL STOREFRONT DETAILS



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FILE NAME:	22129_The Village at Totem Lake.dwg

STOREFRONT SECTION AND SPECIFICATIONS

DESIGN CRITERIA

- ## GENERAL

- C. Where voltage, amp draw, dimensions and elevations of existing construction could affect the new construction, it is the contractor's responsibility to make field verifications and measurements in time for their incorporation into the shop drawings.
24. Refer to architectural and electrical reflected ceiling plans for exact location of light fixtures. Contractors to coordinate locations of lighting, speakers, air diffusers, grilles, and the like, with reflected ceiling lay-outs as required and directed by the architect.
25. Ductwork or piping shall not be located over the top of any electrical panels or equipment.
26. Contractor shall include in his bid all cutting, trenching, and patching associated with the installation of this projects work.
27. Cutting, Patching and Drilling
- A. All cutting and patching of the building construction required for this work shall be by this contractor unless shown on architectural drawings and confirmed as to size and location prior to new construction. Cutting shall be in a neat and workmanlike manner.
- B. Neatly saw cut all rectangular openings, set sleeve through opening, and finish patch or provide trim flange around opening.
- C. Neatly saw cut floors and patch floor to match existing, including floor covering.
- D. Contractor shall field verify slab-on-grade or supported floor construction type prior to cutting. Under no circumstances shall this contractor cut a floor thicker than 4 inches, a structural floor slab, whether on grade or supported, without prior written approval from the architect. If floor slab indicated to be cut on mechanical plans is found to be structural in nature, do not cut. Contact architect immediately for further directions.
- E. Core drill and sleeve all round openings.
- F. Do not cut any structural components without architect's written approval, including, but not limited to roof joists, columns, floor joists, beams, girders, structural floor slabs, rebar, etc.
- G. Patch, and finish to match adjacent areas that have been cut, damaged or modified as a result of the installation of the mechanical systems. Fire-stop all penetrations of fire rated construction in a code approved manner.
- H. All contractors shall confirm with owner, prior to bid, times available for noise producing work such as cutting and core drilling of floors, walls, etc. as well as times for work which requires access into adjoining tenant spaces. Include any premium time in bid.
- I. Exact location of roof top air conditioning units shall be approved by the landlord. Mechanical contractor shall furnish and install all supplemental support steel for equipment and roof penetrations after approval of landlord.
- J. The mechanical contractor shall coordinate work with the general contractor prior to construction. The mechanical contractor shall provide information regarding openings in walls, floors, etc., concrete equipment pads and foundations to the general contractor. If the mechanical contractor fails to comply with this request, or if incorrect information is given, the necessary cutting and patching will be performed by the general contractor, the mechanical contractor's expense.
- K. All openings required for this branch of work shall be accomplished in time to be incorporated in, and be compatible with the construction program; otherwise this contractor shall be responsible and pay for all changes made necessary for his failure to do so. Pipe holes in floors and walls shall not be core drilled if not sleeved during construction.

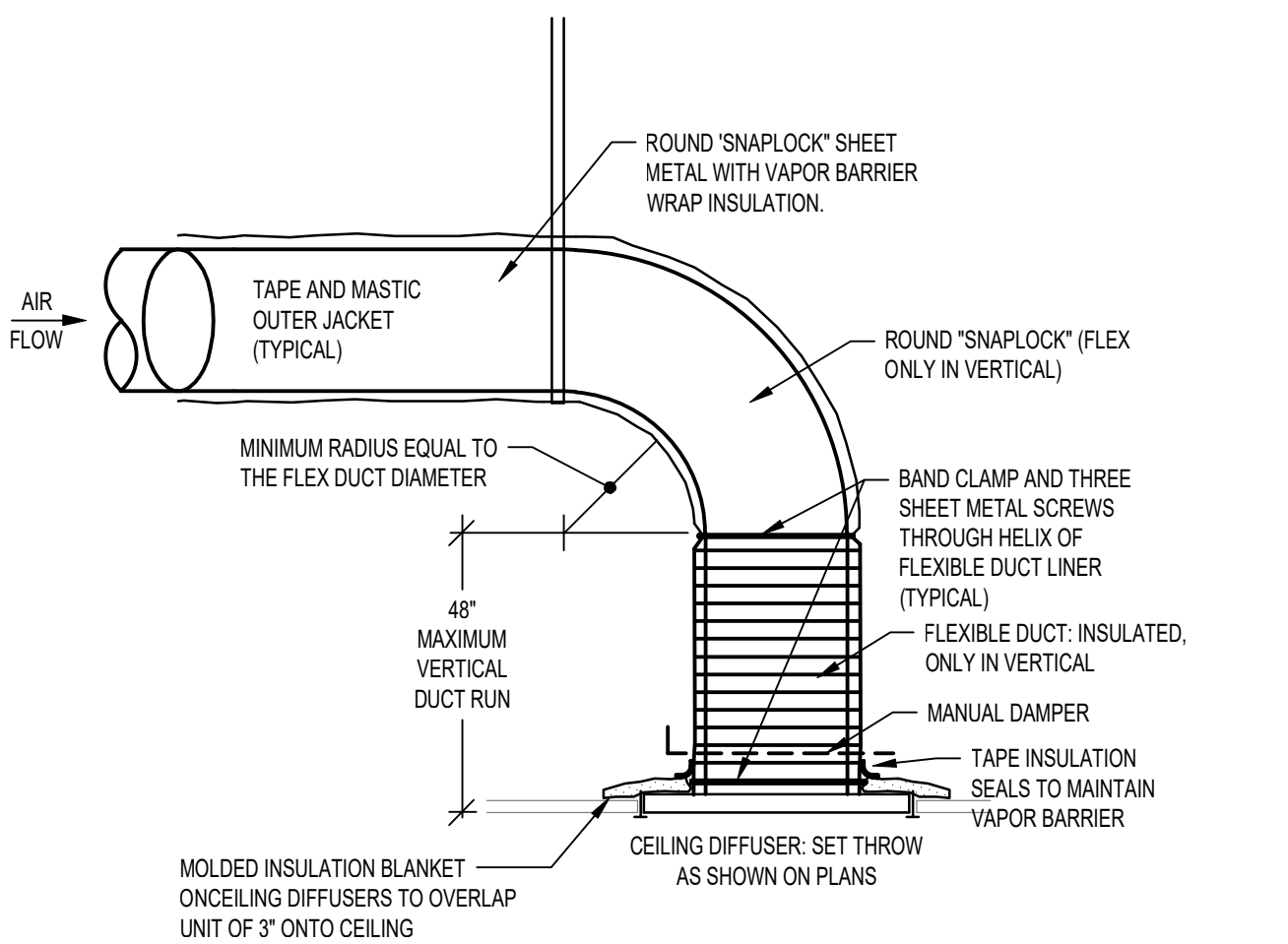
-
- SUPPLY DUCT
- RETURN OR EXHAUST DUCT

N.T.S.

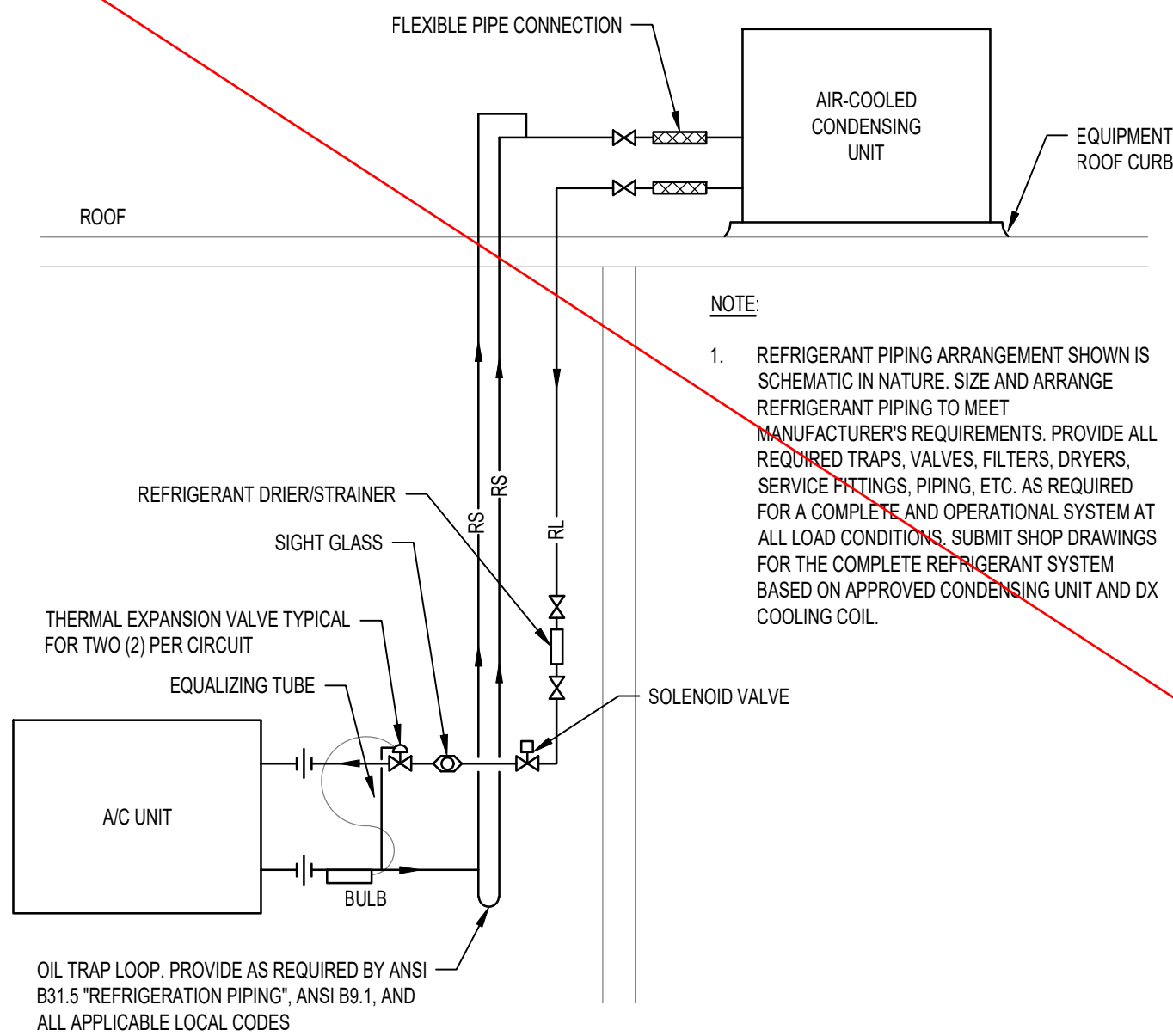
	CW		HW		SAN		V	DOMESTIC COLD WATER	DOMESTIC HOT WATER	SANITARY SEWER PIPING	VENT PIPING
								PIPING ABOVE GRADE/FL	PIPING BELOW GRADE/FL	EXISTING PIPING TO REM	SHUTOFF VALVE
	(E)							UTILITY METER			SOLENOID VALVE
								THERMOSTAT			TEMPERATURE SENSOR
								POINT OF CONNECTION			EQUIPMENT TAG
								SUPPLY OR OUTDOOR AIR			RETURN OR RELIEF DUCT
								EXHAUST DUCT			DUCT LINING
								AIRFLOW DIRECTION			3/4" DOOR UNDERCUT

AC	AC UNIT
ACCU	AIR COOLED CONDENSING UNIT
AHU	AIR HANDLING UNIT
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CO	CLEANOUT
CU	CONDENSING UNIT
DIA (Ø)	DIAMETER
EF	EXHAUST FAN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
(E)	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN / FIRE DAMPER
H	HUMIDIFIER
HP	HORSEPOWER
HVAC	HEATING, VENTILATION, AIR CONDITIONING
KW	KILOWATT
MBH	1,000 BTUH
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PH (Ø1)	PHASE
(R)	RELOCATE
RG	RETURN GRILLE
TYP	TYPICAL
V	VOLTS
VTR	VENT THRU ROOF
W	WATTS
W/	WITH
WCO	WALL CLEANOUT

M0	MECHANICAL NOTES & LEGENDS
M1	MECHANICAL PLAN, NOTES AND SCHEDULES
M2	PLUMBING PLAN, NOTES AND SCHEDULES
M3	MECHANICAL AND PLUMBING SPECIFICATIONS



N.T.S.



N.T.S. (PIPING TYPICAL FOR EACH REFRIGERANT CIRCUIT)

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NO.	DATE	DESCRIPTION

DATE:	07/18/2022
DRAWN BY:	TBA
PROJECT NO.:	22129
FILE NAME:	2022-0869 M0.dwg

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GRAPHIC SCALE



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NO.	DATE	DESCRIPTION
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DATE:	07/18/2022
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PROJECT NO.:	22129
FILE NAME:	2022-0809 M1.dwg

MECHANICAL PLAN, NOTES, & SCHEDULE

M1

GRAPHIC SCALE

GENERAL NOTES

- A. COORDINATE LOCATIONS OF DIFFUSER GRILLES W/ARCH REFLECTED CEILING PLAN.
- B. SUBMIT COPIES OF TEST AND BALANCE REPORT TO LANDLORD, OWNER AND ENGINEER.
- C. CONTRACTOR SHALL COMPLETELY REMOVE FROM THE PREMISES ALL EQUIPMENT, PIPING, DUCTWORK, DIFFUSERS, GRILLES, CONTROLS, CONTROL WIRING, ETC. AND ALL ASSOCIATED SUPPORTS, BRACING, PADS, ETC. NOT BEING REUSED OR SHOWN ON TO REMAIN WHETHER IN THE DEMISED SPACE, ON THE ROOF OR OTHERWISE LOCATED OUTSIDE OF THE DEMISED SPACE. DO NOT ABANDON.
- D. DIFFUSER RUNOUT ALLOW TO DIFFUSER CONNECTION UNLESS OTHERWISE SPECIFIED.
- E. REFER TO ARCHITECTURAL PLANS FOR CEILING HEIGHTS.
- F. HVAC SUBSTITUTIONS MUST BE SUBMITTED AT TIME OF BID. SEE MECHANICAL SPECIFICATIONS FOR SUBSTITUTION REQUIREMENTS.
- G. G.C. TO FIELD VERIFY EXACT CONDITIONS (DRAWINGS MAY NOT SHOW EVERY ROOM AND EQUIPMENT REQUIRED FOR THE WORK). G.C. IS RESPONSIBLE AT THEIR OWN EXPENSE TO INSTALL PIPING AND DUCTWORK TO ACCOMMODATE THE BUILDING STRUCTURE AND WORK OF ALL OTHER TRADES. WITH ALL REQUIRED OFFSETS WHILE MAINTAINING MINIMUM DUCT HEIGHT, AND DIFFUSER MOUNTING HEIGHT REQUIREMENT.
- H. CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE FIRE MARSHAL'S OFFICE FOR ALL INSPECTIONS.
- I. A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED AND PROVIDED TO THE FIELD INSPECTOR PRIOR TO FINAL APPROVAL. THE REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE TESTS. ALL SYSTEMS SHALL BE TESTED BY A CERTIFIED INDEPENDENT AGENCY, TO NEBB OR ABC STANDARDS. PROVIDE CERTIFIED AIR BALANCE REPORT FOR REVIEW PRIOR TO FINAL INSPECTION.
- J. AIR CONDITIONING DUCTS TO BE SMACNA SEAL CLASS A (TRANSVERSE AND LONGITUDINAL SEAMS).

CODED NOTES:

1. RELOCATE EXISTING 7.5-TON FAN COIL UNIT TO PLATFORM AS REQUIRED. MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES.
2. EXISTING 7.5-TON CONDENSING UNIT ON ROOF. CONTRACTOR TO VERIFY EXACT LOCATION.
3. EXTEND AND RECONNECT REFRIGERANT LINES AS REQUIRED TO EXISTING CONDENSING UNIT (CU-1E) ON ROOF. CONTRACTOR TO FIELD VERIFY EXACT SIZE AND LOCATION PRIOR TO BID. SIZE PER MANUFACTURER'S RECOMMENDATIONS.
4. ROUTE NEW 6" OUTSIDE AIR DUCT TO RELOCATED ENERGY RECOVERY UNIT AS REQUIRED.
5. NEW FCU-2 MOUNTED ABOVE SALES CEILING. MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES.
6. LOCATE ACCESS PANEL AS REQUIRED TO PROVIDE ACCESS TO PROVIDE MANUFACTURER'S RECOMMENDATIONS. SEE ARCHITECTURAL FOR ADDITIONAL INFO.
7. INSTALL NEW 2.5 TON CONDENSING UNIT ON ROOF PER MANUFACTURER'S RECOMMENDATIONS. VERIFY EXACT LOCATION WITH LANDLORD'S REPRESENTATIVE PRIOR TO ROUGH-IN. MAINTAIN ALL MANUFACTURER'S CLEARANCES AND MAXIMUM REFRIGERANT LINE LENGTHS. GC SHALL PATCH/REPAIR ROOF PENETRATIONS AS REQUIRED DURING CONSTRUCTION. COORDINATE WORK WITH LANDLORD'S ON-SITE REPRESENTATION.
8. PROVIDE AND INSTALL THERMOSTAT AT 48° AFF.
9. RELOCATE ENERGY RECOVERY UNIT AS REQUIRED. MAINTAIN ALL MANUFACTURER'S CLEARANCES. MOUNT TIGHT TO STRUCTURE.
10. EXTEND 10"Ø OUTSIDE AIR DUCT TO RELOCATED ENERGY RECOVERY UNIT AS REQUIRED.
11. ROUTE NEW CONDENSATE TO MOP SINK WITH 2" AIR GAP. PROVIDE LITTLE GANT OR EQUAL. CONDENSATE PUMP IF REQUIRED. SLOPE CANNOT BE OBTAINED.
12. ROUTE NEW REFRIGERANT PIPING FROM NEW CONDENSING UNIT ON ROOF TO NEW FCU-2 UNIT IN CEILING SPACE. SIZE PER MANUFACTURER RECOMMENDATIONS. COORDINATE EXACT ROUTING WITH LANDLORD'S REPRESENTATIVE PRIOR TO ROUGH IN. MAINTAIN MAXIMUM REFRIGERANT LINE LENGTHS. SIZE PER MANUFACTURER'S RECOMMENDATIONS.
13. VENTLESS DRYER. SEE ARCHITECTURAL FOR ADDITIONAL INFORMATION.
14. MODIFY EXISTING SPRINKLER LAYOUT AS REQUIRED FOR NEW CEILING LAYOUT.
15. PROVIDE AND INSTALL TEMPERATURE SENSOR AT 48° AFF.
16. ROUTE 2x20 SUPPLY DUCT UP TIGHT TO STRUCTURE TO SERVE SALES AREA.
17. ROUTE 10x10 SUPPLY DUCT DOWN THRU PLATFORM TO RESTROOM CEILING SPACE.
18. SUPPLY DUCTWORK ROUTED BELOW PLATFORM IN CEILING SPACE AS REQUIRED.
19. ROUTE 8"Ø EXHAUST DUCT UP TIGHT TO STRUCTURE IN STOCK ROOM.
20. RELOCATE EXISTING DUCT DETECTOR INTO NEW RETURN AIR DUCT AS REQUIRED. IF NOT EXISTING, CONTRACTOR TO PROVIDE NEW SMOKE DETECTOR LOCATED IN RETURN AIR DUCT TO SHUT DOWN UNIT. UNDER ALARM DETECTOR SHALL BE FURNISHED AND WIRED BY ELECTRICAL. INSTALLED BY MECHANICAL CONTRACTOR. ALL WIRING SHALL BE IN CONDUIT PER N.E.C.
21. ROUTE NEW 26x16 RETURN AIR DUCT UP TIGHT TO STRUCTURE AS REQUIRED.
22. CONNECT NEW OA DUCT TO EXISTING OA DUCT IN SPACE AS REQUIRED. CONTRACTOR TO FIELD VERIFY EXACT SIZE AND LOCATION PRIOR TO BID.
23. RELOCATE EXISTING INLINE FAN AS REQUIRED. MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES.

GRILLE AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	MODULE SIZE	FINISH	REMARKS
CD-1	TITUS	OMNI	SURFACE	24x24	SEE ARCH.	1,2,3,4
CD-2	TITUS	OMNI	SURFACE	12x12	SEE ARCH.	1,2,3,4
CD-3	TITUS	TMA	DUCT MOUNT	24x10	SEE ARCH.	1,2,3,4
RG-1	TITUS	350 R/L	SURFACE	SEE PLANS	SEE ARCH.	1,3,4
RG-2	TITUS	350 R/L	DUCT MOUNT	8x8	SEE ARCH.	1,3,4
RG-3	TITUS	350 R/L	SURFACE	12x12	SEE ARCH.	1,3,4

REMARKS

1. ACCEPTABLE MANUFACTURERS: ANEMOSTAT, KRUEGER, NAILOR, PRICE, TITUS, OR TUTTLE AND BAILEY
2. ALL CEILING DIFFUSERS ARE 4-WAY THROW UNLESS INDICATED OTHERWISE ON PLAN
3. AG-75 BLADE DAMPER
4. SEE ARCHITECTURAL FOR COLOR.

ENERGY RECOVERY UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	SUPPLY FAN			ELECTRICAL				OPERATING WEIGHT (LBS)	REMARKS
				CFM	HP	ESP	MCA	MOCP	VOLT.	PH.		
ERU-1(E)	GREENHECK	MINIVENT-450-VG	TENANT	-	1/4	0.5	8.6	15	120	1	180	EXISTING

AIR HANDLING UNIT SCHEDULE (ELECTRIC HEAT)

MARK	MANUFACTURER	MODEL	SERVICE	NOMINAL COOLING TONS	FAN (CFM)	MIN O.A. (CFM)	ESP (W/C)	FAN H.P.	SENSIBLE COOLING CAPACITY (MBH)	TOTAL COOLING CAPACITY (MBH)	EAT DB/WB (°F)	LAT DB/WB (°F)	HEATING CAPACITY (KW)	HEATING EAT/LAT (°F)	REFRIGERANT TYPE	NO OF STAGES	IEER	ELECTRICAL				OPERATING WEIGHT (LBS)	REMARKS
																		MCA	MOCp	VOLT.	PH.		
FCU-1(E)	CARRIER	40RUQ08	TENANT	7.5	3000	350	0.8	3	89.0	-	80.0 / 67.0	-	5	65.2 / 75.6	R-410A	1	12.0	7	15	208	3	145	EXISTING
FCU-2	TRANE	TEMA40B30S31	TENANT	2.5	1000	100	0.8	0.5	22.8	28.6	80.0 / 67.0	58.6/57.7	4.8/9.6	65.2/75.6	R-410A	2	14.0 (SEER)	53	60	208	1	115	1.2.3

REMARK

1. ACCEPTABLE MANUFACTURES: CARRIER, DAIKEN, JCI, OR TRANE.
2. PROVIDE WITH SINGLE POINT POWER CONNECTION AND INTEGRAL DISCONNECT.
3. PROVIDE WITH APR CONTROL VALVE ON THE PRIMARY CIRCUIT FOR PART LOAD CAPACITY CONTROL

HEAT PUMP SCHEDULE (OUTDOOR UNIT)

MARK	MANUFACTURER	MODEL	SERVICE	NOMINAL TONS	TOTAL COOLING CAPACITY (MBH)	HEATING CAPACITY @47°F (MBH)	REFRIGERANT TYPE	NO. OF STAGES	IEER	ELECTRICAL				OPERATING WEIGHT (LBS)	REMARKS
										MCA	MOPC	VOLT.	PH.		
CU-1(E)	CARRIER	38AUQ08	FCU-1(E)	7.5	89.0	42	R410	1	12.0	35	50	208	3	500	EXISTING
CU-2	TRANE	4TWR4030G1	FCU-2	2.5	28.6	27.8	R410	1	14.0 (SEER)	17	25	208	1	250	12.3

REMARKS

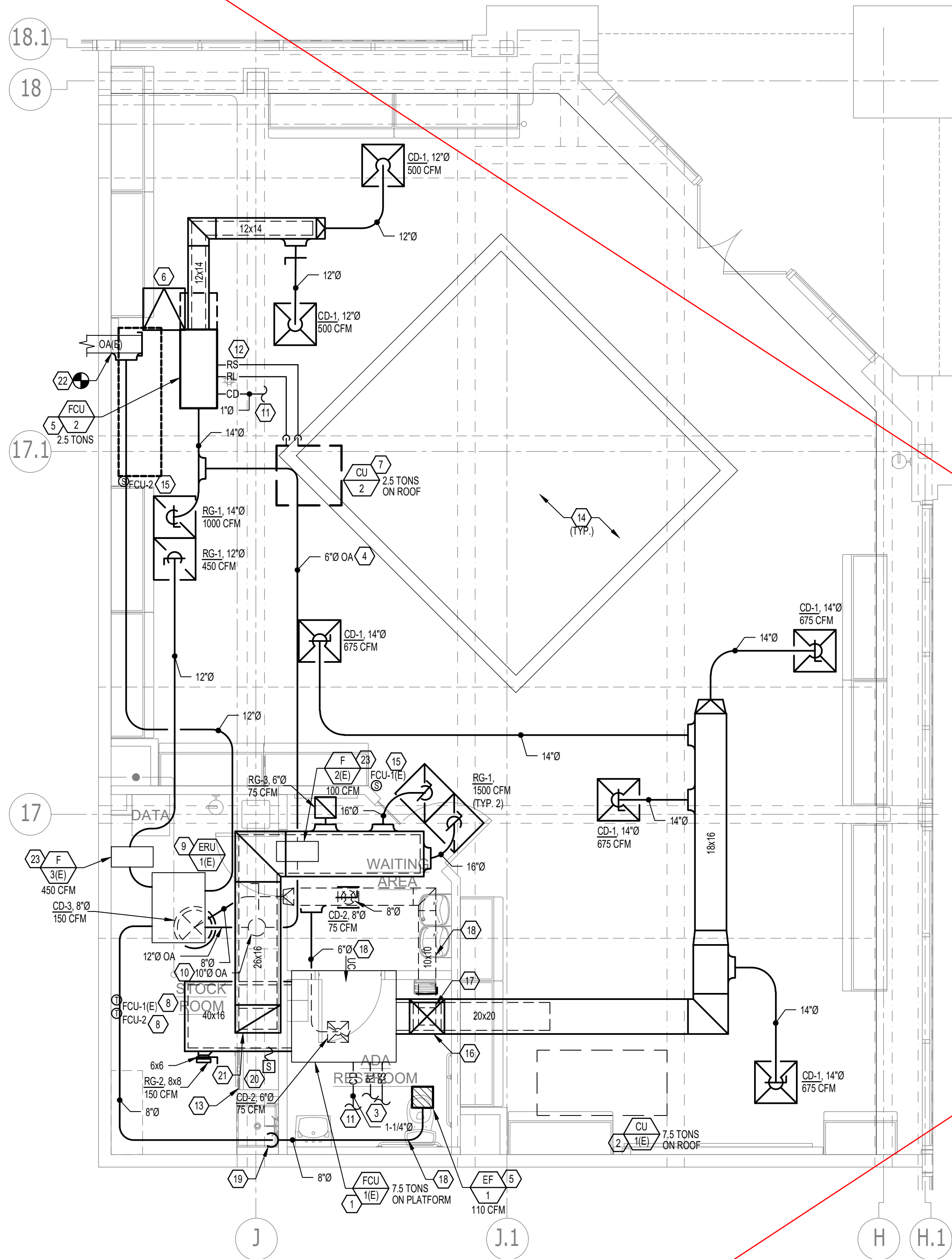
1. ACCEPTABLE MANUFACTURERS: CARRIER, DAIKEN, JCI, LENNOX, OR TRANE.
2. MOUNT ON VIBRATION SPRING ISOLATORS ON PREFABRICATED CURB.
3. PROVIDE SALT SPRAY ANTI-CORROSION COATING ON EXPOSED ALUMINUM COMPONENTS

FAN SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	CAPACITY (CFM)	SP (WC)	DRIVE	MOTOR POWER (WATTS)	ELECTRICAL		DISCONNECT	OPERATING WEIGHT (LBS)	REMARKS
								VOLT.	PH.			
EF-1	GREENHECK	SP-A200	TOILET ROOM	110	0.5	DIRECT	48	115	1	DIV. 16	24	12.3
F-2(E)	GREENHECK	CSP-A700-VG	ERU-1 (SUPPLY)	100	0.75	-	215	120	1	-	-	4
F-3(E)	GREENHECK	CSP-A700-VG	ERU-1 (AIR INTAKE)	450	0.875	-	215	120	1	-	-	4

REMARKS

- REMARKS:
1. ACCEPTABLE MANUFACTURERS: GREENHECK, LOREN COOK, OR TWINCITY
 2. PROVIDE WITH BACKDRAFT DAMPER
 3. INTERLOCK WITH TOILET ROOM LIGHTS
 4. EXISTING RELOCATED FAN TO BE INTERLOCKED WITH ERU-1(E).



MECHANICAL PLAN

$$\underline{1/4'' = 1' - 0''}$$

COORDINATION NOTE:

BECAUSE OF VERY TIGHT CLEARANCES ON THIS PROJECT, EACH CONTRACTOR IS TO COMPLETELY COORDINATE WITH ALL DISCIPLINES PRIOR TO ANY WORK BEING DONE. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION AND PROPER INSTALLATION OF ALL SYSTEMS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS AND FITTINGS WHICH MAY BE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS. THE CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING PROCESS AND FIELD VERIFY EXISTING CONDITIONS. THE CONTRACTOR SHALL TAKE ALL INTERFERENCES INTO CONSIDERATION. THE CONTRACTOR SHALL BE FAMILIAR WITH OWNER'S STANDARDS, RULES & REGULATIONS. ALL OWNER'S CRITERIA SHALL BE COMPLIED WITH AND INCLUDED IN THIS BID. ALL DUCTWORK SHALL BE INSTALLED TIGHT TO UNDERSIDE OF STRUCTURAL, AS TO MAXIMIZE CLEARANCE. MECHANICAL CONTRACTOR TO SUBMIT, WITH DUCTWORK SHOP DRAWINGS, A COORDINATION DRAWING THAT INCLUDES STRUCTURAL MEMBERS, CEILINGS, PIPING, ARCHITECTURAL MEMBERS, ELECTRICAL EQUIPMENT, ETC. TO ENSURE ROUTING & CLEARANCE OF DUCTWORK WITH OTHER TRADES.



DATE: 07/18/2022

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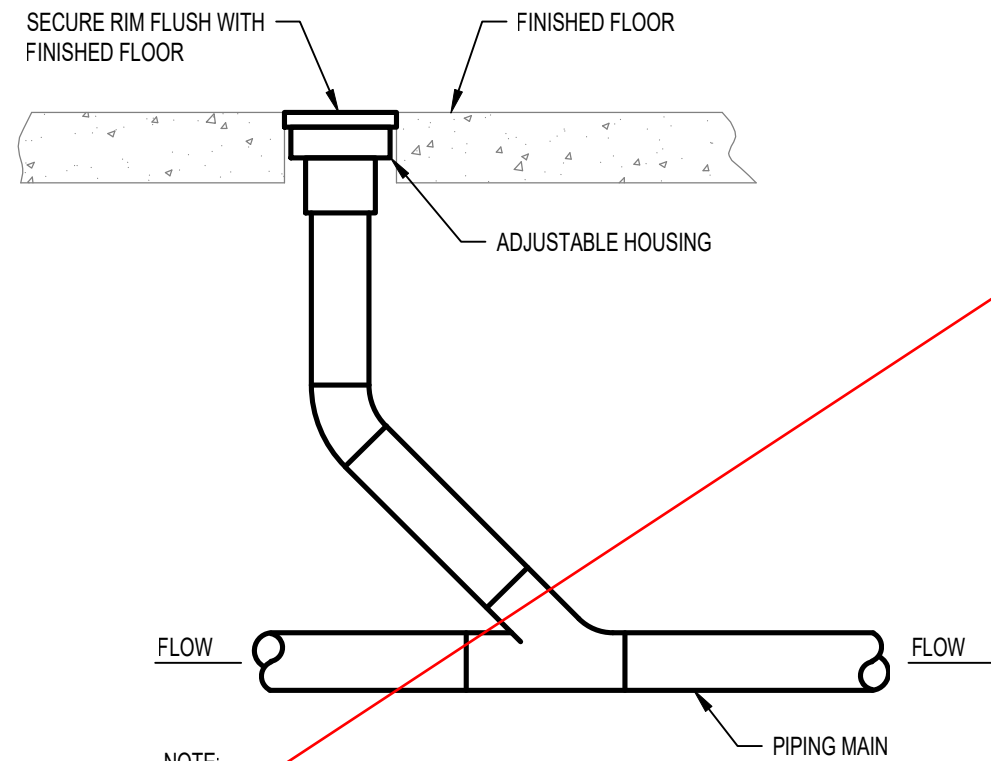
PROJECT NO.: 22129

FILE NAME: 2022-0809 M2.dwg

PLUMBING
PLANS, NOTES,
& SCHEDULES

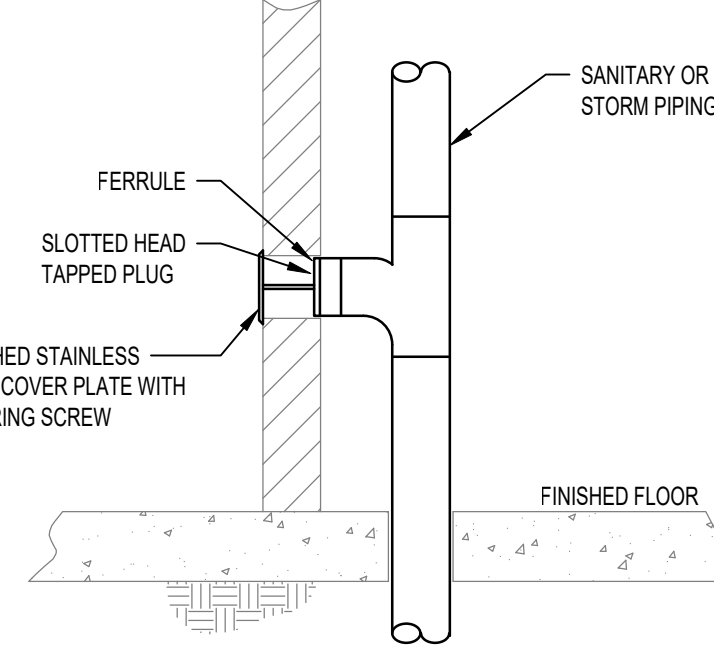
M2

GRAPHIC SCALE:



FLOOR CLEANOUT DETAIL

N.T.S.



WALL CLEANOUT DETAIL

N.T.S.

GENERAL NOTES

- SUBCONTRACTOR TO VERIFY POINT OF CONNECTION AND SCOPE OF WORK TO INSTALL ALL PLUMBING PIPING AND EQUIPMENT TO SPACE PRIOR TO BID. IF INCONSISTENCIES OCCUR BETWEEN PLANS AND LANDLORD CRITERIA, OWNER'S CONSTRUCTION MANAGER SHALL BE NOTIFIED PRIOR TO BID SUBMITTAL.
- G.C. TO NOTIFY BLUEMERCURY PROJECT MANAGER IF EXISTING SANITARY LINE IS LESS THAN 4".
- TOILET FLUSH HANDLE TO BE INSTALLED ON ACCESSIBLE SIDE OF TOILET.
- SANITARY PIPING 3" AND LARGER SHALL BE SLOPED A MINIMUM OF 1/8" PER FT. SANITARY PIPING 2-1/2" OR LESS SHALL BE SLOPED A MINIMUM OF 1/4" PER FT.
- SANITARY SEWER PIPES TO BE CAST IRON, SERVICE WEIGHT, HUB AND SPIGOT BELOW GRADE. HUBLESS WITH RUBBER SLEEVE AND STAINLESS STEEL CLAMP PERMITTED ABOVE GRADE.
- SUPPORT PIPES FROM STRUCTURE ABOVE WITH PROPER CLAMPS, AND CONCRETE ANCHORS NOT TO PIERCE INSULATION.

CODED NOTES (E)

- EXTEND AND CONNECT NEW SANITARY SEWER AND CONNECT TO EXISTING 4" (MIN) SANITARY SEWER PIPING. GC TO SCOPE AND CLEAN OUT BACK TO THE MAIN LINE, VERIFY THE EXISTING SIZE, LOCATION, FLOW OF DIRECTION, AND INVERT ELEVATION OF CONNECTION POINT PRIOR TO ROUGH-IN OF NEW SANITARY SEWER. INSTALL BACKWATER VALVE AT EACH LOCATION WHERE BLUEMERCURY'S SANITARY LINE TIES INTO LANDLORD MAIN AS REQUIRED. PROVIDE FCO AT POINT OF CONNECTION TO EXISTING. NOTIFY ARCHITECT IMMEDIATELY IF CONNECTION TO SANITARY MAIN IS ON THE SALES FLOOR OR MAKE-UP AREA.
- EXTEND AND CONNECT NEW CW PIPING AND CONNECT TO EXISTING IN SPACE AS REQUIRED. FIELD VERIFY EXACT SIZE AND LOCATION OF CW PIPING PRIOR TO ROUGH-IN. PROVIDE REMOTE SUB-METER.
- EXTEND AND CONNECT NEW VENT PIPING TO EXISTING VENT THRU ROOF PIPING IN SPACE AS REQUIRED. FIELD VERIFY EXACT SIZE AND LOCATION OF VENT PIPING PRIOR TO ROUGH-IN.
- PROVIDE JOSAM 88250 OR EQUAL TRAP PRIMER WITH ACCESSIBLE SHUT-OFF VALVE.
- PIPE 3/4" FROM ASME RATED T&P VALVE EQUAL TO CODE APPROVED AIR GAP OVER TO SERVICE SINK.
- PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE EQUAL TO LEONARD MODEL 270-LF. SET TEMPERATURE TO 110°F.
- PROVIDE THERMAL EXPANSION TANK EQUAL TO STATE MODEL ETC-2X. ADJUST EXPANSION TANK AIR CHARGE TO MATCH INCOMING WATER PRESSURE (FIELD VERIFY).
- PIPE DRAIN PAN FULL SIZE TO CODE APPROVED AIR GAP OVER FLOOR DRAIN.
- SHUT-OFF VALVES AND THERMOSTATIC MIXING VALVE SHALL BE MOUNTED BELOW THE SINK. DRAINAGE PIPING AND TRAP SHALL BE COVERED WITH ADA WRAP.

PUMP SCHEDULE												
MARK	MANUFACTURER	MODEL	TYPE	SERVICE	GPM	TOTAL HEAD (FT)	HP	RPM	OPERATING WEIGHT (LBS)	ELECTRICAL		REMARKS
										VOLT.	PH.	
GP1	ZOELLER	805	GRINDER	SANITARY	40	2	3/4	3400	65	115	1	1-4

- REMARKS:
- INCLUDE TOP INDUSTRIES 18" DIA X30"H FIBERGLASS BASIN WITH GASKET SEALED SOLID STEEL COVER. INLET, DISCHARGE AND VENT CONNECTIONS SHALL REMAIN BELOW SLAB.
 - ELECTRICAL CONNECTION TO BE MADE WITH 15 FT. U.L. LISTED 3 WIRE CORD AND PLUG.
 - UNIT TO BE FURNISHED WITH CHECK VALVE. PUMP EQUIPPED WITH VERTICAL FLOAT SWITCH.
 - FURNISH WITH 10-28/14 ALARM SYSTEM AND 100FT. FLOAT SWITCH. REMOTELY LOCATE ALARM IN STOCK ROOM. PROVIDE SOLENOID VALVE ON INCOMING COLD WATER MAIN TIED TO ALARM.

ELECTRIC WATER HEATER SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	KW	CAPACITY (GAL.)	STAGES	VOLTAGE	OUTPUT (GPH 90° RISE)	REMARKS
EW-1	A.O. SMITH	DEL-30	3.0	30	1	208/1/60	14.0	REFER TO DETAIL THIS SHEET

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE NO.	FIXTURE TYPE	MANUFACTURER	TYPE & MODEL NO.	TRIM/FAUCET NO.	SUPPORT	PIPE SIZES					DESCRIPTION
						TRAP	WASTE	VENT	CW	HW	
P1	WATER CLOSET	SANIFLO	BOWL: 087 TANK: 005	CHICAGO FAUCET 1016	FLOOR MOUNT	-	4"	1-1/2"	1/2"	-	1-28 GPH VITREOUS CHINA, WASHDOWN STYLE, ELONGATED BOWL, ADA COMPLIANT 16-3/4" SEAT HEIGHT. INCLUDES SOFT CLOSE SEAT. PROVIDE WITH GRINDER PUMP. SEE P1A FOR GRINDER PUMP INFORMATION.
P2	LAVATORY	KOHLER	PINOIR (WHITE) K-2035-S W/SHROUD	KOHLER FAUCET K-7443-SA K-7715 DRAIN	WALL MOUNT	1-1/2"	2"	1-1/2"	1/2"	1/2"	PROVIDE INSULATED CAST BRASS P-TRAP HANDICAP INSULATION KIT. (2) CHICAGO FAUCET 1016 ANGLE VALVES, WALL CARRIER, 0.5 GPM FLOW LIMIT. PROVIDE K-16012-5 WRISTBLADE LEVER HANDLES, K-7715 LAVATORY DRAIN. ALL PIPING AND VALVES TO BE LOCATED WITHIN THE SHROUD. PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE, LAWLER MODEL 510. SET TO 110°F.
P4	WATER COOLER	HALSEY TAYLOR	HACFS-BL-WF-Q	-	WALL MOUNT	1-1/2"	1-1/2"	1-1/2"	1/2"	-	B-L-LEVEL WALL MOUNTED COOLER, 9.3 GPH @ 70 DEGREE AMBIENT, FILTRATION SYSTEM, STAINLESS STEEL FINISH.
P5	JANITORS SINK	FIAT	L-1	CHICAGO FAUCET 895-LESAB	PEDESTAL	1-1/2"	1-1/2"	1-1/2"	3/4"	3/4"	MOLDED STONE WALL MOUNTED TUB WITH HEAVY GAUGE GALVANIZED STEEL BRACKET, 3/4" HOSE THREAD OUTLET.
P6	WASHING MACHINE WALL OUTLET BOX	GUY GRAY	MWB19	-	WALL MOUNT	3"	3"	1-1/2"	3/4"	3/4"	WASHING MACHINE SHUTOFF VALVE WITH LEAK SENSOR, VALVED CW/HW CONNECTION AND STANDPIPE DRAIN CONNECTION FOR WASHING MACHINE.
F1	FLOOR DRAIN	J.R. SMITH	2005-NB	-	-	3"	3"	1-1/2"	-	-	TYPE "B" STRAINER. PROVIDE 1/2" TRAP PRIMER CONNECTION WHERE INDICATED ON PLANS. POLISHED NICKEL BRONZE SQUARE TOP.
BWV	BACKWATER VALVE	MAINLINE	ML-FR4	-	-	-	4"	-	-	-	NORMALLY OPEN DESIGN, AUTOMATIC BACKWATER VALVE. PERMITS FREE CIRCULATION OF AIR THROUGHOUT. CLOSURES AUTOMATICALLY. CLEAR TOP. PROVIDE WITH PE-2013 ACCESS BOX COMBO.
FCO	FLOOR CLEAN OUT	J.R. SMITH	4040	-	-	-	4"	-	-	-	DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED NICKEL BRONZE TOP.
WCO	WALL CLEAN OUT	J.R. SMITH	4402	-	-	-	4"	-	-	-	DUCO CAST IRON CAULK FERRULE AND CAST IRON LEAD SEAL PLUG WITH STAINLESS STEEL ROUND COVER AND SCREW.

SUPERSEDED
PAGE REVISED
10/24/2022

Reviewed by J Hawley
City of Kirkland Planning and Building

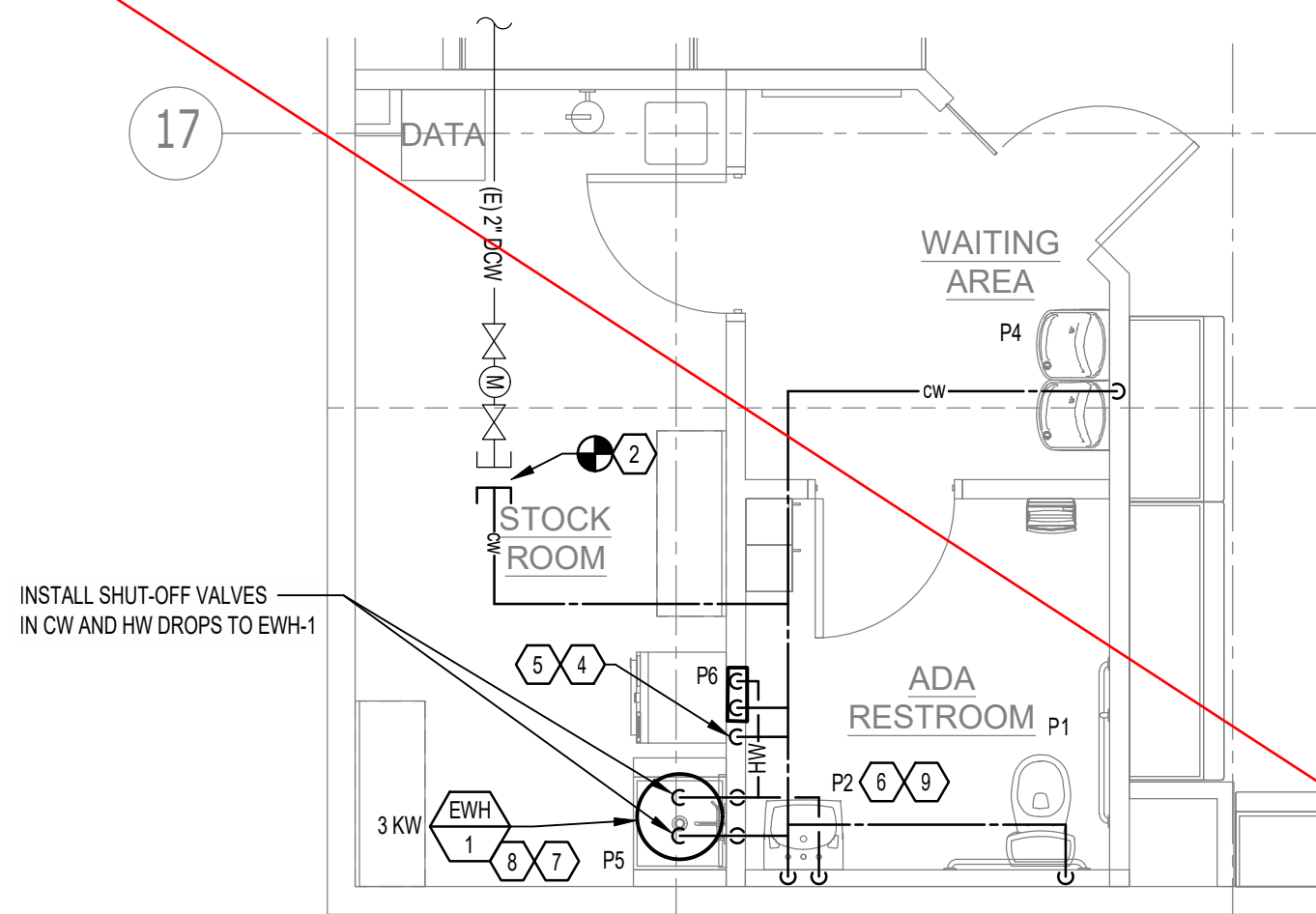
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Backwater valve shall be labeled and accessible per the UPC

Permit and approved plan shall be onsite

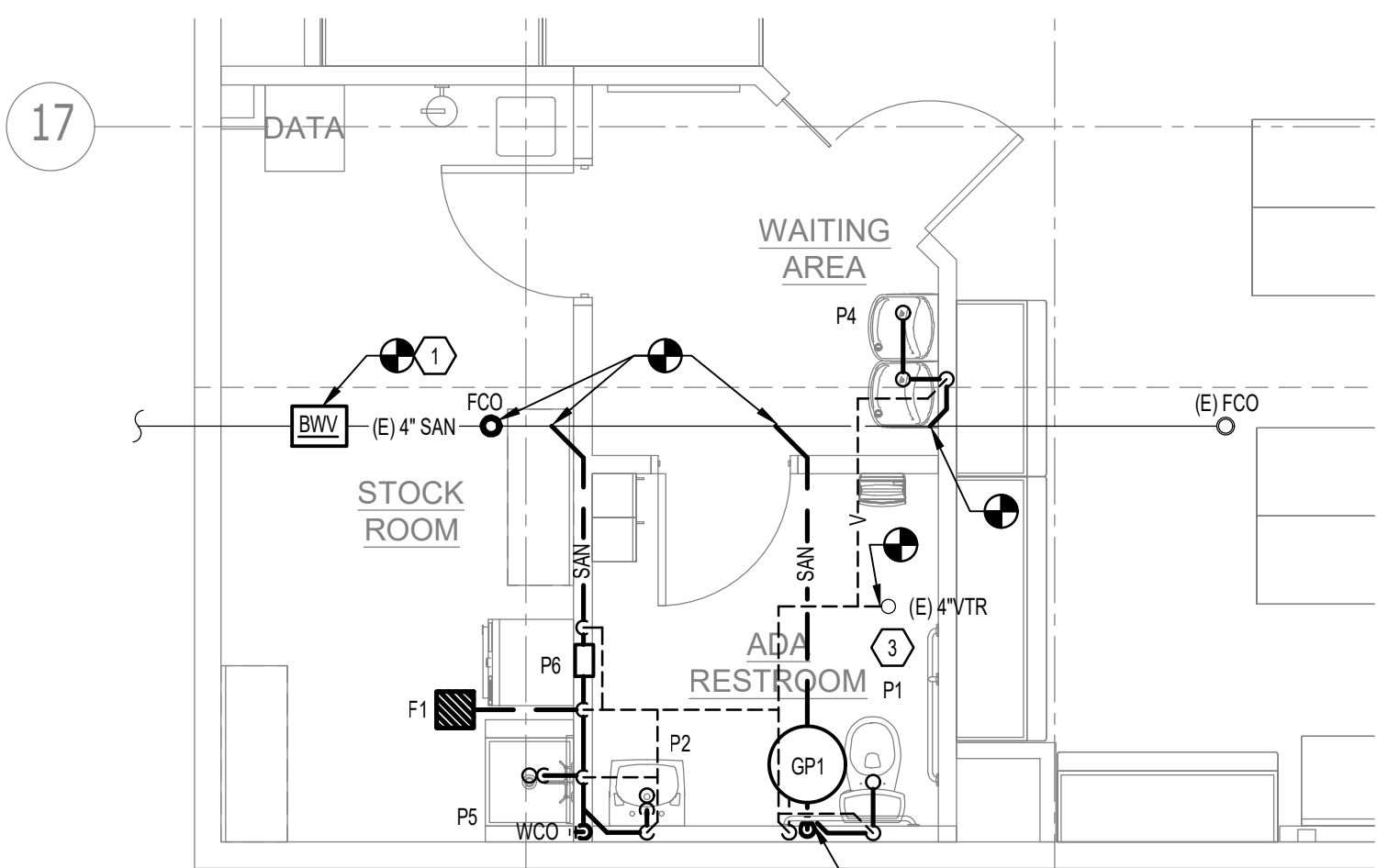
Work shall conform to the 2018 UPC

Public use Lavs shall comply with UPC 407.3



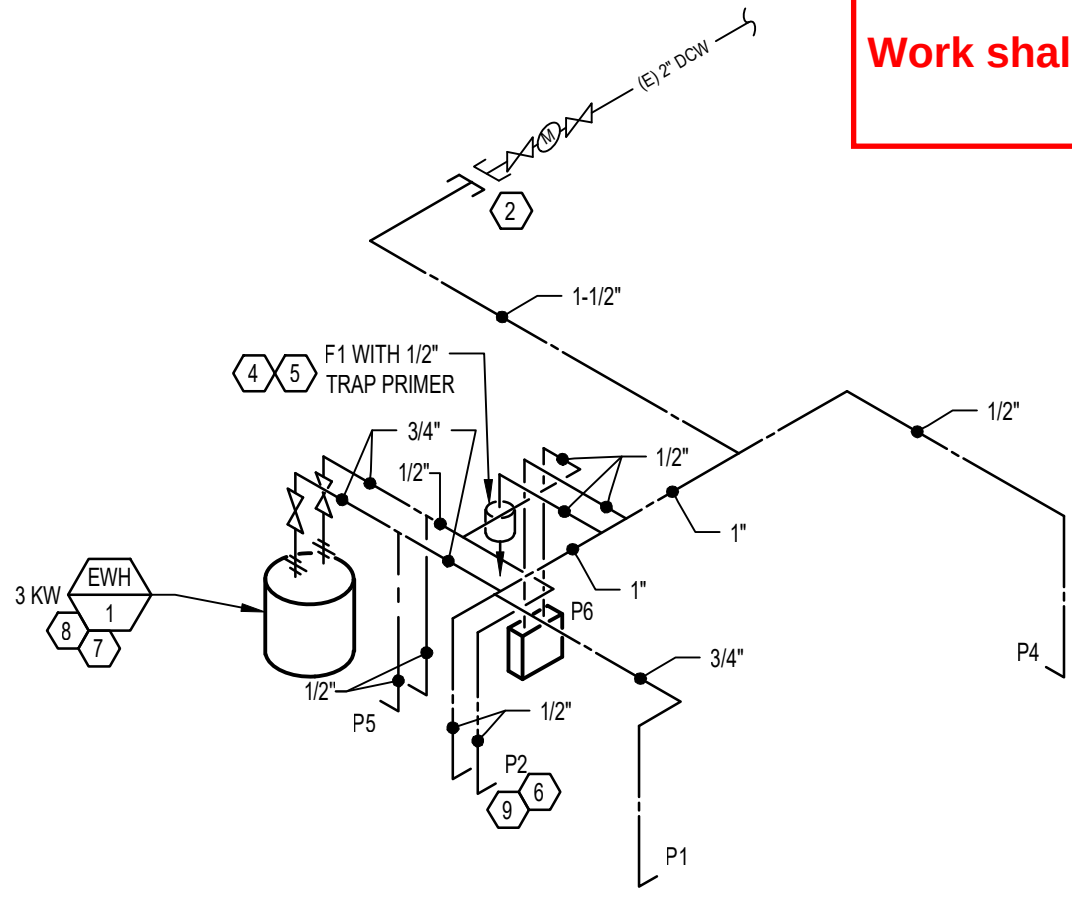
DOMESTIC WATER PLAN
1/4" = 1' - 0"

Insulate new domestic water lines per the UPC and WSEC

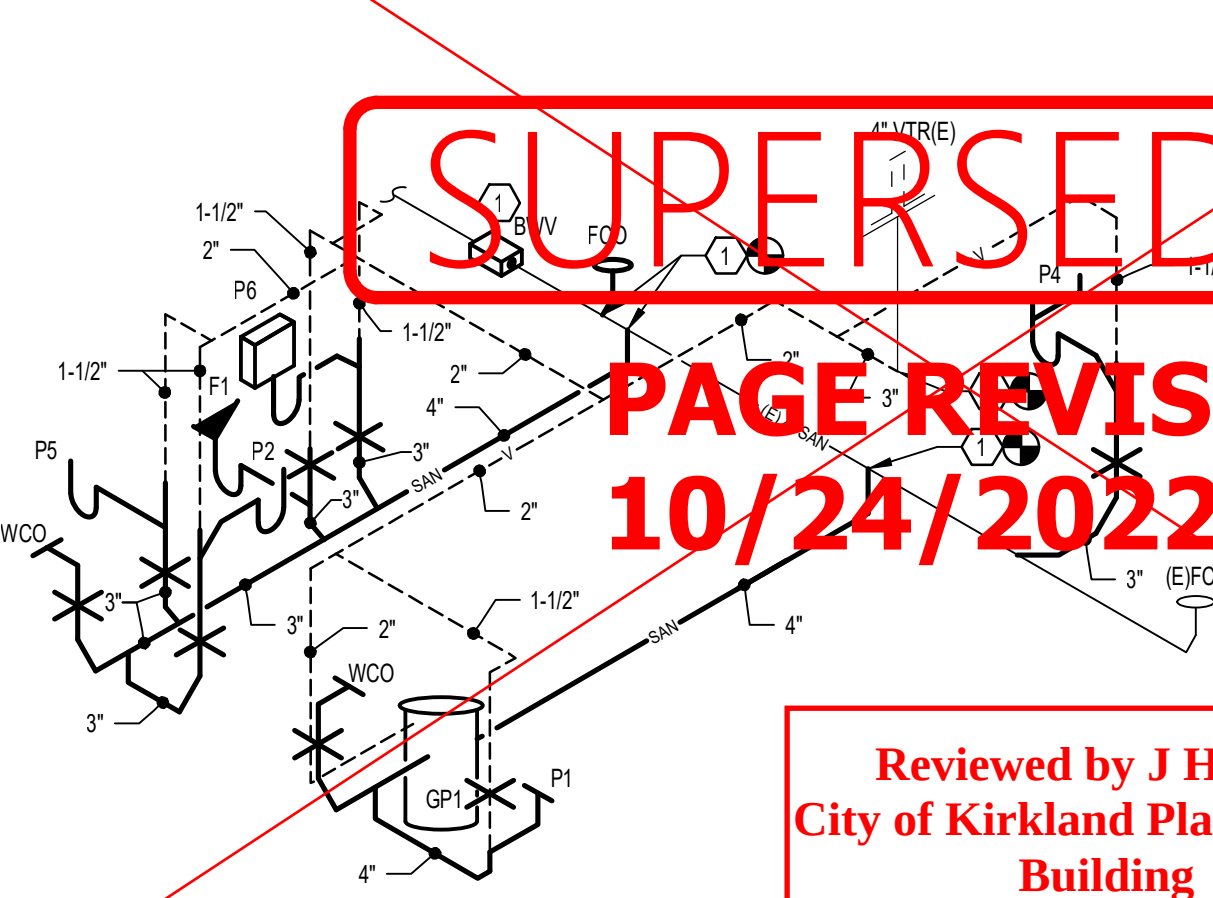


SANITARY PLAN
1/4" = 1' - 0"

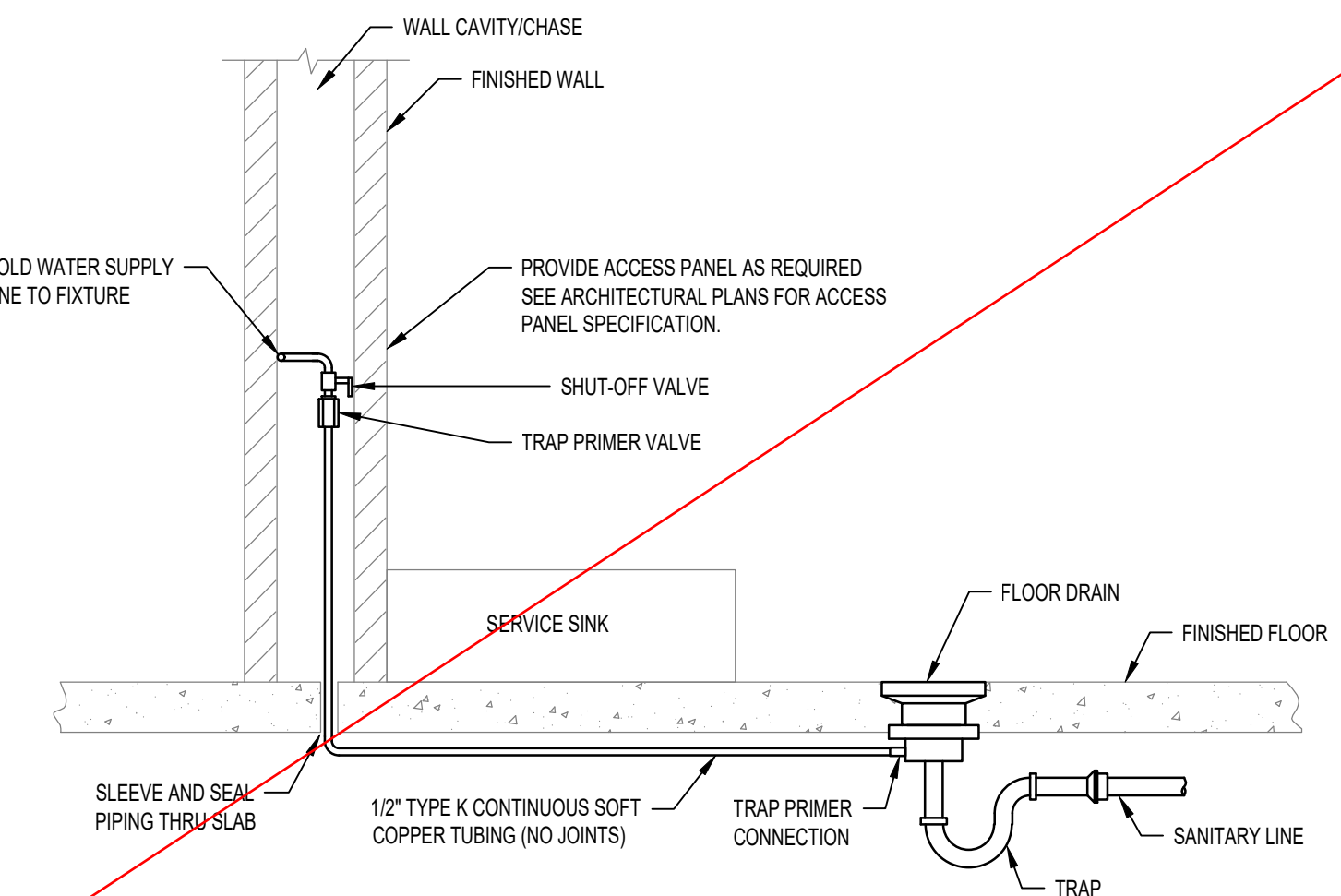
Materials for Domestic water lines, Sanitary DWV, and Grease waste lines shall be UPC approved.



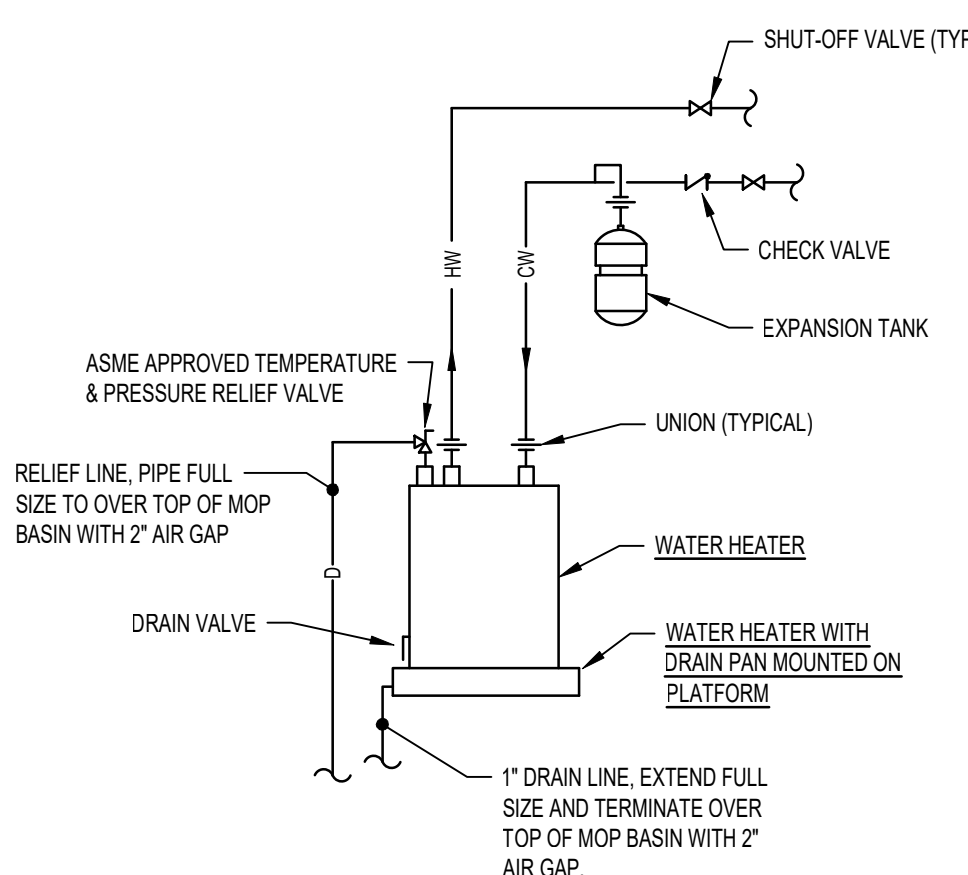
WATER RISER
N.T.S.



WASTE AND VENT STACK
N.T.S.



TRAP PRIMER DETAIL
N.T.S. (SINGLE DRAIN)



WATER HEATER DETAIL
N.T.S.



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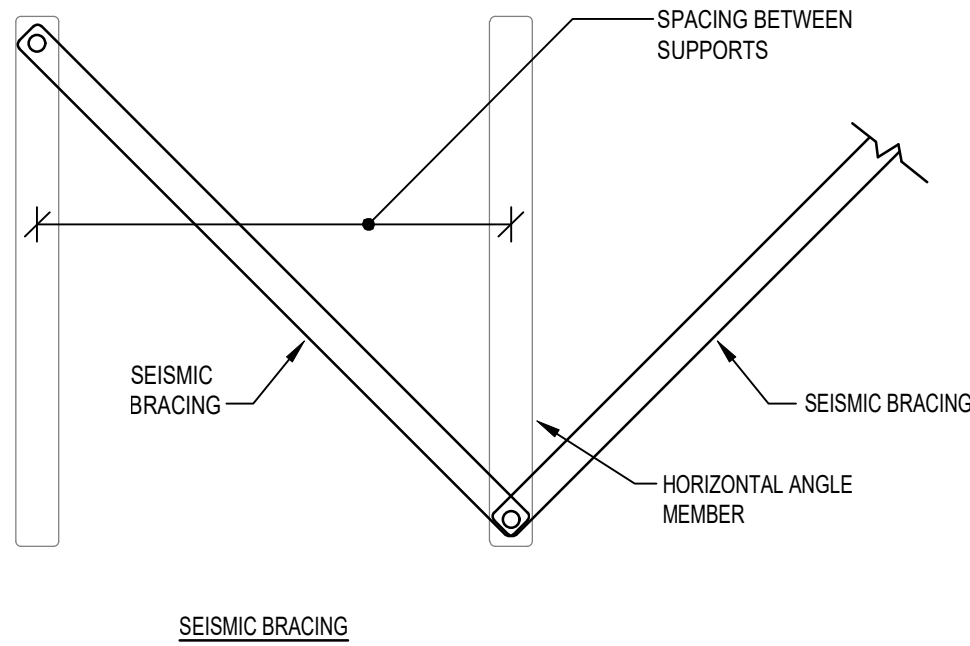
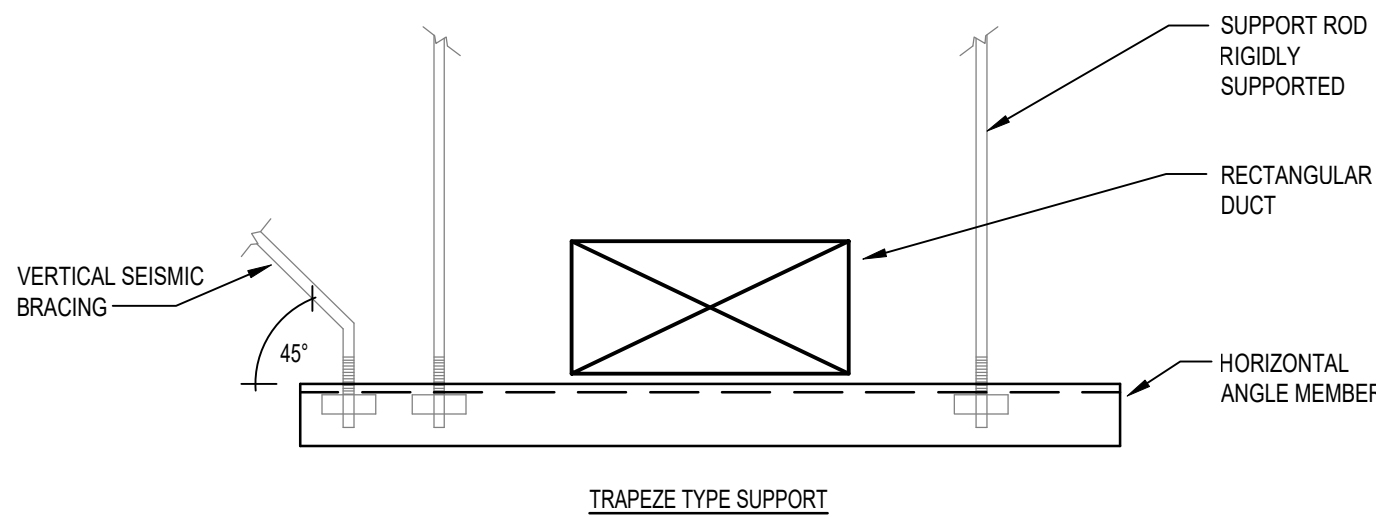
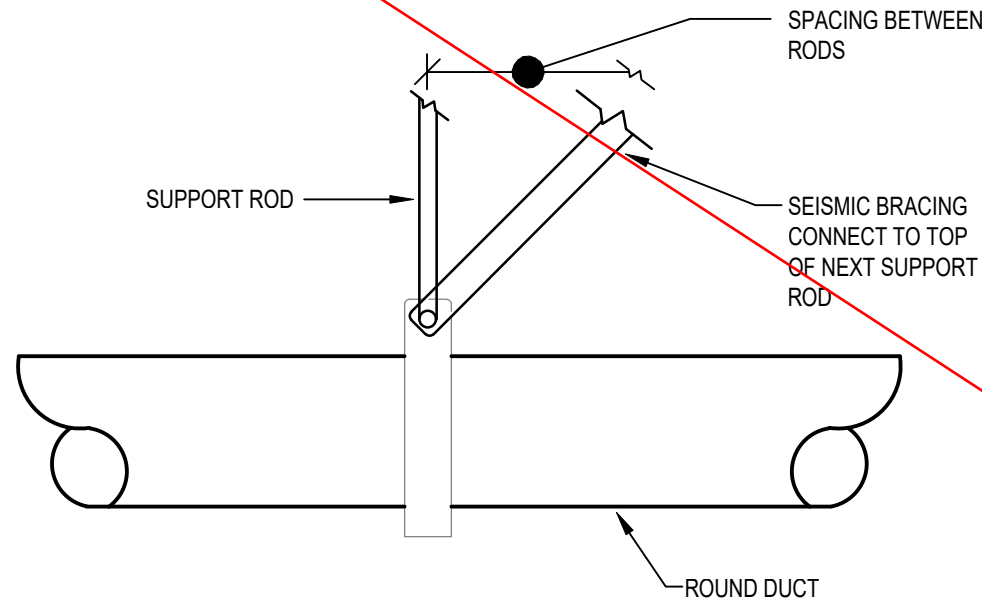
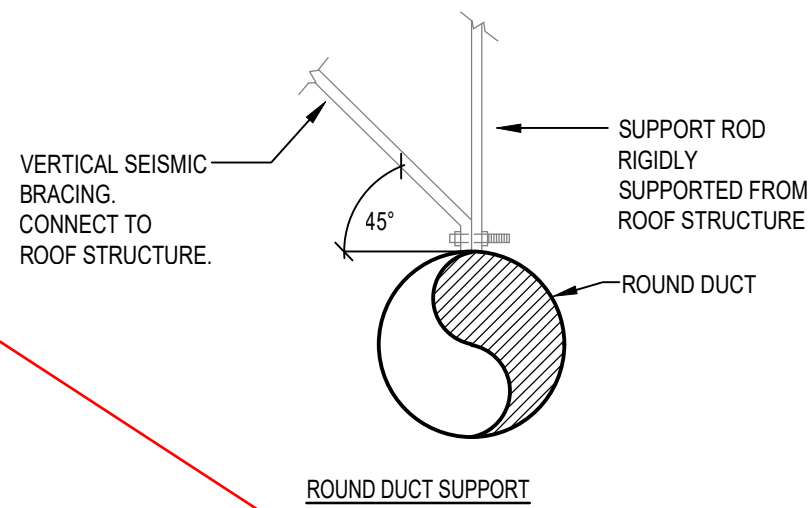


DATE:	07/18/2022
DRAWN BY:	TBA
PROJECT NO.:	22129
FILE NAME:	2022-0869 M4.dwg

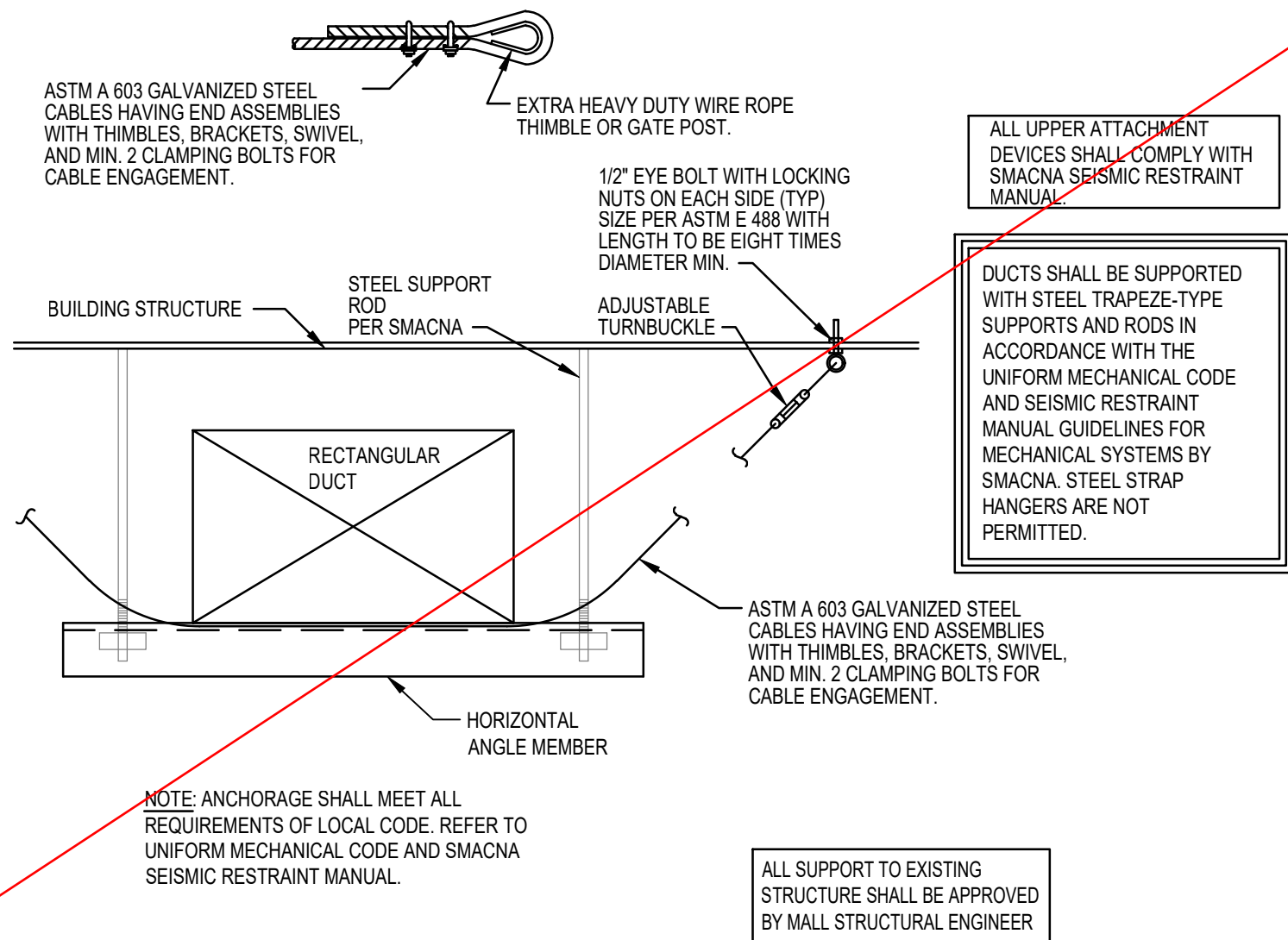
MECHANICAL
SEISMIC DETAILS

M4

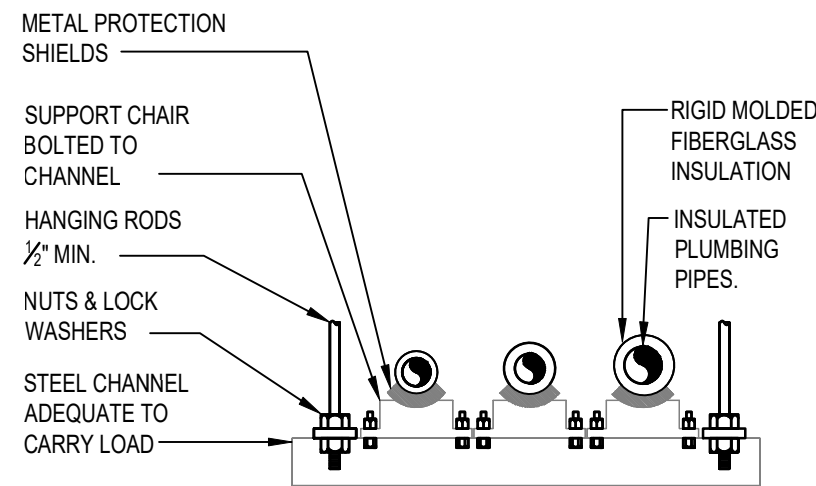
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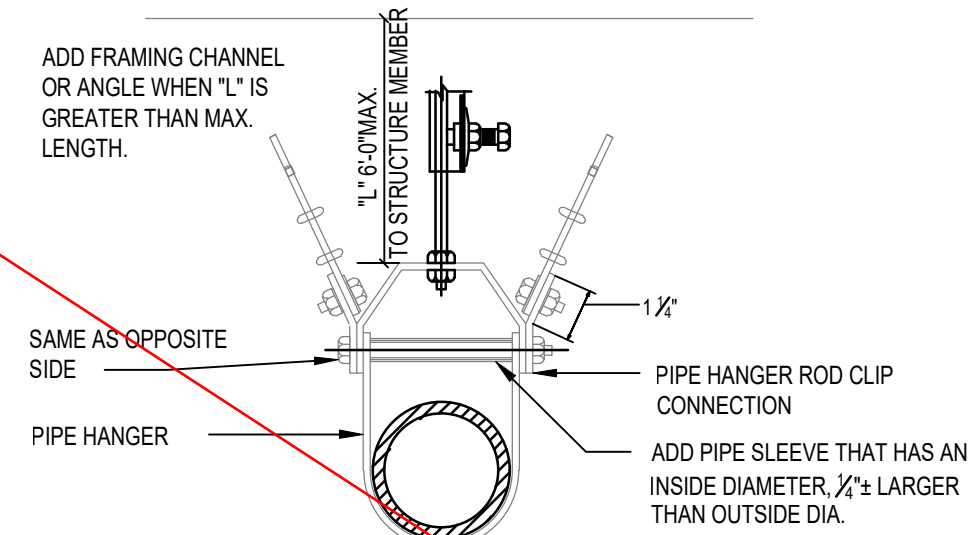
DUCT SUPPORT DETAILS
SCALE: NONE



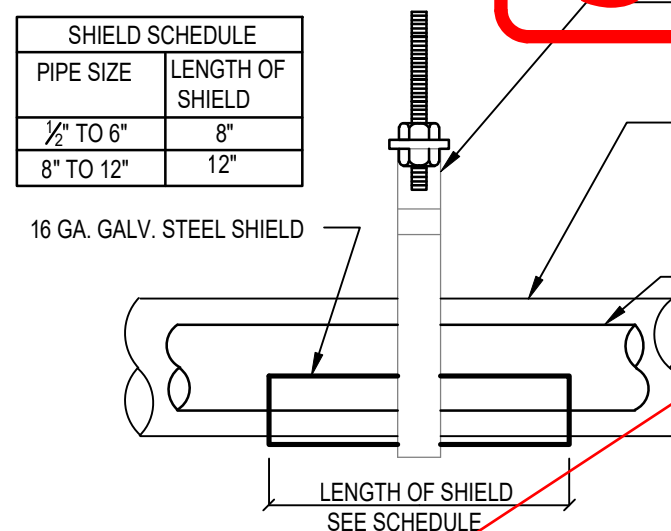
MECHANICAL DUCT ANCHORAGE DETAIL
N.T.S.



TRAPEZE HANGER DETAIL
SCALE: NONE



CABLE BRACING DETAIL
SCALE: NONE



SINGLE PIPE HANGER
SCALE: NONE

SUPERSEDED
PAGE REVISED
10/24/2022

- SEISMIC NOTES:
SEISMIC BRACING FOR PIPING SHALL BE INSTALLED UNDER THE FOLLOWING CONDITIONS:
1. ALL PIPING 2.5" DIAMETER AND GREATER SHALL HAVE SEISMIC SUPPORT.
 2. ALL GAS PIPING 1" DIAMETER AND GREATER SHALL HAVE SEISMIC SUPPORT.
 3. ALL PIPING SHALL BE SUSPENDED BY INDIVIDUAL SUPPORT WHERE THE HANGER IS 12" OR LESS IN LENGTH FROM THE TOP OF PIPE TO THE POINT OF ATTACHMENT OF THE HANGER TO THE STRUCTURE.
 4. THE SIZE, TYPE, SPACING AND METHOD OF INSTALLATION OF ALL SEISMIC BRACING SHALL BE IN ACCORDANCE WITH THE LATEST "SMACNA SEISMIC RESTRAINT MANUAL-GUIDELINES FOR MECHANICAL SYSTEMS".
 5. GAS PIPING IS TO BE CLASSIFIED UNDER "SEISMIC HAZARD LEVEL A" IN THE SMACNA MANUAL. ALL OTHER PIPING SYSTEMS ARE TO BE CLASSIFIED UNDER "SEISMIC HAZARD LEVEL C" IN THE SMACNA MANUAL.

- SMACNA SEISMIC MANUAL NOTES:
1. REFER TO CHAPTER 3 FOR GENERAL REQUIREMENTS.
 2. REFER TO PAGE 4.19 FOR LONGITUDINAL BRACING.
 3. REFER TO TABLES 5-7, 6-7 OR 7-7 FOR VERTICAL HANGERS, DIAGONAL BRACING, SIZE, CONNECTION TO SUPPORTING STRUCTURE, AND SPACING OF BRACING.

TABLE 6-D: DUCT INSULATION SCHEDULE

DUCT LOCATION	INSULATION TYPES MECHANICALLY CODED	HEATING ZONE ¹	INSULATION TYPES HEATING ONLY
ON ROOF ON EXTERIOR OF BLDG.	C, V AND W ²	I II III	A AND W B AND W C AND W
ATTICS, GARAGES AND CRAWL SPACES	A AND V ²	I II III	A A B
IN WALLS, WITHIN FLOOR-CEILING SPACES ³	A AND V ²	I II III	A A B
WITH THE CONDITIONED SPACE OR IN BASEMENTS; RETURN DUCTS IN AIR PLENUMS	NONE REQ'D		NONE REQ'D
CEMENT SLAB OR WITHIN GROUND	NONE REQ'D		NONE REQ'D

DUCT SUPPORT SCHEDULE
PART 1 - VERTICAL DUCTS

MAXIMUM SIDE OF RECTANGULAR DUCT	METAL STRAP OR ANGLE BRACKET	MAXIMUM DIAMETER OF ROUND DUCTS	STRAPS
24"	1" x 1/8" (STRAP) ¹	10"	0.047" (NO. 18 GAGE) GALVANIZED STEEL 2" WIDE ¹
36"	1" x 1" x 1/8" ANGLE ¹	20"	0.058" (NO. 18 GAGE) GALVANIZED STEEL 2" WIDE ¹
48"	1 1/8" x 1 1/8" x 1/8" ANGLE ¹	40"	1/8" STEEL x 1 1/2" ¹
60"	1 1/2" x 1 1/2" x 1/8" ANGLE ¹	60"	1/8" STEEL x 2" ¹
OVER 60"	2" x 2" x 1/8" ANGLE ¹	OVER 60"	3/16" STEEL x 2" ¹

PART 2 - HORIZONTAL DUCTS

18"	1" x 1/8 GAGE ²	10"	SAME GAGE AS GALVANIZED STEEL DUCT, 1" WIDE OR (NO. 18 GAGE GALVANIZED STEEL WIRE) ON 10" CENTERS
30"	1" x 1/8 GAGE ²		
48"	1" x 1/8" ²	20"	SAME GAGE AS GALVANIZED STEEL DUCT, 1" WIDE OR (NO. 8 GAGE GALVANIZED STEEL WIRE) TIED TO 1" GALVANIZED STEEL BAND AROUND DUCT ON 10" CENTERS
60"	1" x 1/8" ²	40"	SAME GAGE AS GALVANIZED STEEL DUCT, 1 1/2" WIDE ON 6" CENTERS
80"	1" x 1/8" ²	60"	SAME GAGE AS GALVANIZED STEEL DUCT, 1 1/2" WIDE ON 4" CENTERS
		OVER 60"	SAME GAGE AS GALVANIZED STEEL DUCT, 1 1/2" WIDE ON 4" CENTERS

PART 3 - HORIZONTAL DUCTS:
TRAPEZE - TYPE SUPPORTS

MAXIMUM DIAMETER OF ROUND DUCT OR SIDE OF RECTANGULAR DUCT	HORIZONTAL SUPPORT ANGLE ³	HANGER
36"	1 1/2" x 1 1/2" x 1/8"	1/4" ROUND ROD OR 1" x 1" x 1/8" ANGLE
48"	2" x 2" x 1/8"	1/4" ROUND ROD OR 1" x 1" x 1/8" ANGLE
60"	2" x 2" x 1/8"	5/16" ROUND ROD OR 1" x 1" x 1/8" ANGLE
84"	2" x 2" x 1/8"	3/8" ROUND ROD OR 1" x 1" x 1/8" ANGLE

- ¹ SPACED VERTICALLY NOT MORE THAN 12 FEET ON CENTERS
² SPACED HORIZONTALLY NOT MORE THAN 10 FEET ON CENTERS
³ SPACED NOT MORE THAN 8 FEET ON CENTERS

GENERAL NOTES

1. FINAL CONNECTIONS TO LIGHT FIXTURES SHALL BE MADE WITH GREENFIELD FLEXIBLE CONDUIT. MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL BE 8'-0".
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURES. CONTRACTORS TO COORDINATE LOCATIONS OF LIGHTING, SPEAKERS, AIR DIFFUSERS, GRILLES & THE LIKE, WITH REFLECTED CEILING LAY-OUTS AS REQUIRED & DIRECTED BY THE ARCHITECT.
3. ALL DEVICES, EQUIPMENT, FIXTURES, & THE LIKE, MUST BE GROUNDED BY USE OF A PLENUM RATED GROUNDING CONDUCTOR. MECHANICAL ELECTRICAL BONDS OF THE METALLIC RACEWAY SYSTEM SHALL ALSO BE MAINTAINED.
4. REFER TO MECHANICAL AND PLUMBING PLANS FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT. COORDINATE LOCATION OF DISCONNECT SWITCH ASSOCIATED WITH EACH PIECE OF EQUIPMENT WITH RESPECTIVE CONTRACTOR AND INSTALL IN ACCORDANCE WITH THE NEC.
5. REFER TO DIVISION 15 (21, 22 & 23) SPECIFICATIONS, HVAC, PLUMBING, AND PLANS FOR ADDITIONAL ELECTRICAL WORK REQUIREMENTS & COORDINATION.
6. ALL RECEPTABLES SHOWN BACK-TO-BACK IN WALLS SHALL BE SEPARATED HORIZONTALLY BY 6" MINIMUM.
7. WHERE OPEN WIRING METHODS FOR LOW VOLTAGE SYSTEMS ARE PERMITTED BY THE CONTRACT DOCUMENTS AND LOCAL AUTHORITY, THE CONDUCTOR INSULATION MUST BE PLENUM RATED.
8. BRANCH CIRCUIT CONDUCTOR SIZES (& CONDUITS) SHALL BE INCREASED FROM THOSE INDICATED ON THE PLANS TO PREVENT EXCESSIVE VOLTAGE DROP. BRANCH CIRCUITS SHALL BE INSTALLED WITH WIRES OF SUFFICIENT SIZE SO THAT VOLTAGE DROP BETWEEN THE PANEL & THE LOADS DO NOT EXCEED A LIMIT OF 3%.
9. REGARDLESS OF THE TEMPERATURE RATING OF THE CONDUCTOR INSULATION, ALL CONDUCTOR AMPACITY RATINGS FOR THIS PROJECT SHALL BE DETERMINED FROM THE 75°C CONDUCTOR TEMPERATURE RATINGS INDICATED IN THE NEC TABLES. WHERE OTHER DEVICES ARE PROVIDED WITH TERMINAL BLOCKS RATED FOR 80°C, THE AMPACITY RATINGS OF THE 75°C CONDUCTOR SHALL BE LIMITED TO ITS ASSOCIATED 80°C RATING AS INDICATED IN THE NEC TABLES. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO INCREASE THE CONDUCTORS AND CONDUIT SIZE AS REQUIRED.
10. ALL 120V AND 277V BRANCH CIRCUITS SHALL BE PROVIDED WITH SEPARATE NEUTRAL CONDUCTORS. SHARED NEUTRALS WILL NOT BE PERMITTED FOR MULTI-CIRCUIT INSTALLATIONS. WHERE MULTIPLE CIRCUITS ARE RUN IN A COMMON RACEWAY, THE AMPACITY OF THE CONDUCTORS SHALL BE PROPERLY DERATED & CONDUIT SHALL BE SIZED PER CODE. UNDER NO CIRCUMSTANCES SHALL MORE THAN SIX (6) CURRENT CARRYING CONDUCTORS BE RUN IN A SINGLE CONDUIT. REFERENCE NEC ARTICLE AND TABLE 310.15(B)(3)(a).
11. ALL CONDUITS SHALL CONTAIN A GROUND CONDUCTOR SIZED PER NEC TABLE #250.122. IN ADDITION, WHEN AN ISOLATED, INSULATED GROUND IS REQUIRED, A SEPARATE GROUND CONDUCTOR WITH GREEN INSULATION SHALL BE RUN FROM THE PANEL, GROUND BUS TO THE ISOLATED GROUND CONNECTION OF THE DEVICE. IN NO CASE SHALL THE SYSTEM GROUND (CONDUCTOR & ASSOCIATED OUTLET BOXES, CONDUIT & BUILDING STEEL) BE ALLOWED TO CONTACT THE ISOLATED GROUND (CONDUCTOR & DEVICE). WHERE CIRCUIT CONDUCTORS ARE INCREASED IN SIZE FOR ANY REASON (E. VOLTAGE DROP, DROPPINGS, ETC.), THE GROUND CONDUCTOR SIZE SHALL BE INCREASED PROPORTIONATELY (ACCORDING TO CIRCULAR MIL AREA) FROM THE SIZE REQUIRED BY NEC TABLE #250.122.
12. ELECTRICAL INSTALLATION REQUIREMENTS FOR ALL HVAC, PLUMBING, SLEAK SYSTEMS AND OWNER EQUIPMENT BEING FURNISHED BY OTHERS SHALL BE REVIEWED AND COORDINATED WITH OTHER TRADES PRIOR TO ROUGH-IN. OBTAIN EQUIPMENT SHOP DRAWINGS FROM INSTALLER/SUPPLIER/CONTRACTOR/OWNER FURNISHING EQUIPMENT, AS REQUIRED, FOR REVIEW AND COORDINATION. CONTACT ARCHITECT/ENGINEER WITH ANY DISCREPANCIES FOUND BETWEEN CONSTRUCTION DRAWINGS AND EQUIPMENT BEING FURNISHED PRIOR TO ROUGH-IN.
13. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL ACCESS PANELS, AS REQUIRED FOR SERVICING AND TESTING, FOR EQUIPMENT AND/OR DEVICES FURNISHED UNDER HIS CONTRACT. THE GENERAL CONTRACTOR SHALL INSTALL ACCESS PANELS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF EACH ACCESS PANEL WITH THE ARCHITECT AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
14. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID ALL CUTTING, TRENCHING AND PATCHING ASSOCIATED WITH THE ELECTRICAL INSTALLATION.
15. ALL PENETRATIONS THROUGH FIRE RATED WALLS ASSOCIATED WITH THE ELECTRICAL INSTALLATION SHALL BE SLEEVED AND FIRE-STOPPED USING A UL APPROVED METHOD. UL APPROVED METHOD SHALL MEET OR EXCEED FIRE RATING OF STRUCTURE BEING PENETRATED. REFERENCE ARCHITECTURAL PLANS FOR FIRE RATED STRUCTURES.
16. NO CONDUIT, BOXES, WIRING, OR CABLES SHALL BE INSTALLED WITHIN 1' 0" OF THE LOWEST POINT OF THE UNDERSIDE OF THE ROOF DECKING, NOR SHALL THEY BE INSTALLED CONCEALED WITHIN METAL-CORRUGATED ROOF DECKING. FOR EXISTING INSTALLATIONS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AND/OR REWORK EXISTING CONDUIT, BOXES, WIRING, AND CABLES THAT IS NOT IN COMPLIANCE WITH THIS REQUIREMENT.
17. ALL ELECTRICAL EQUIPMENT AND DEVICES FOR THIS PROJECT MUST BE LISTED. DEVICES, EQUIPMENT, SYSTEMS SHALL BE INSTALLED PER N.E.C. REQUIREMENTS AND MANUFACTURERS INSTRUCTIONS.
18. ALL CONDUIT AND CABLEING SHALL BE PROPERLY SUPPORTED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. FOR EXISTING INSTALLATIONS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AND/OR REWORK EXISTING CONDUIT AND/OR CABLEING THAT IS NOT IN COMPLIANCE WITH THIS REQUIREMENT.
19. CONTRACTOR SHALL FIELD VERIFY SLAB ON GRADE FLOOR CONSTRUCTION TYPE PRIOR TO CUTTING. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR CUT A STRUCTURAL FLOOR SLAB THICKER THAN FOUR (4) INCHES WITHOUT PRIOR WRITTEN APPROVAL FROM ENGINEER OF RECORD. NOTIFY ENGINEER OF RECORD OF ANY SLAB THICKNESS GREATER THAN FOUR (4) INCHES PRIOR TO PROCEEDING WITH ANY SAW CUTTING.

AC AMPS
AC UNIT AIR CONDITIONING UNIT
AFG ABOVE FINISH COUNTER
AFG ABOVE FINISH FLOOR
AFG ABOVE FINISH GRADE
AHU AIR HANDLING UNIT
ASU ASYMMETRICAL INTERRUPTING CURRENT
ARCH. ARCHITECTURAL
AMP TRIP
ATS AUTOMATIC TRANSFER SWITCH
AWG AMERICAN WIRE GAGE
BKR BREAKER
BLDG BUILDING
CFG CONCRETE
CATV CABLE TELEVISION
CCTV CLOSED CIRCUIT TELEVISION
CH CHILLER
CONTR. CONTRACTOR
CT COOLING TOWER
CU COPPER
CUH CABINET UNIT HEATER
DE DUAL ELEMENT
DN DOWN
DN DISCONNECT SWITCH
DWG. DRAWING
(E) or EXIST. EXISTING
EBB ELECTRIC BASEBOARD
E.C. ELECTRICAL CONTRACTOR
EF EXHAUST FAN
EH ELECTRIC HEATER
ELEC. EMERGENCY
EM ELECTRICAL METALLIC TUBING
EOR ENGINEER OF RECORD
EQ EQUAL
ETR EXISTING TO REMAIN
EWH ELECTRIC UNIT HEATER
EUH ELECTRIC WATER COOLER
EWH ELECTRIC WATER HEATER
F FUSE
FA FIRE ALARM
FACP FIRE ALARM CONTROL PANEL
FAN COIL UNIT
FLUOR FLUORESCENT
FLOOR FAN POWER BOX (VAV)
FP FIRE PROTECTION CONTRACTOR
FS FLOW SWITCH
FT. FOOT/FEET
G.C. GENERAL CONTRACTOR
GFI GROUND FAULT INTERRUPTING PROTECTION
GND GROUND
HID HIGH INTENSITY DISCHARGE
HQA HAND-OFF-AUTOMATIC
HPS HORSEPOWER
HP HIGH PRESSURE SODIUM
HVAC HEATING, VENTILATION, AIR CONDITIONING
IG ISOLATED GROUND
INCAND. INCANDESCENT
JB JUNCTION BOX
KCML ONE THOUSAND CIRCULAR MILS
K.E.C. KILOWATT
KW KILOWATT AMPERE
KV KILOVOLT
KW KILOWATT
L LIGHTING
MATV MASTER ANTENNA TV
MAU MAKE-UP AIR UNIT
MAX MAXIMUM
MCB MAIN CIRCUIT BREAKER
MCC MOTOR CONTROL CENTER
M.C. MECHANICAL
MECH. MECHANICAL
MFR MANUFACTURER
MH METAL HALIDE
MIN MINIMUM
ML MIN LUGS ONLY
MOD MOTOR OPERATED DAMPER
MSB MAIN SWITCHBOARD
MTD MOUNTED
NEC NATIONAL ELECTRIC CODE
NFC NOT FUSED
NFP NATIONAL FIRE PROTECTION ASSOCIATION
NIC NOT IN CONTRACT
NL NIGHTLIGHT
NTS NOT TO SCALE
Ø or PH PHASE
P POLE
PB PULL BOX
P.C. PLUMBING CONTRACTOR
PCL PANEL
PRE POWER ROOF EXHAUSTER
PVC POLYVINYL CHLORIDE
SPRU ROOF TOP UNIT
SPK SPEAKER
SPST SINGLE POLE SINGLE THROW SWITCH
T TIE
TIE TIE
TR TAMPER RESISTANT
TS TAMPER SWITCH
TTB TELEPHONE TERMINAL BOARD
TV TELEVISION
TYP. TYPICAL
UH GAS FIRED UNIT HEATER
UNO UNDERWRITERS LABORATORY
UNO UNLESS NOTED OTHERWISE
UV ULTRAVIOLET
V VOLTS
W WATTS
W WEATHER-PROOF TYPE DEVICE (NEMA 3R RATED)
WR WEATHER-RESISTANT TYPE DEVICE (NEMA 3R RATED)
XFMR TRANSFORMER

ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	PANELBOARD SURFACE MOUNTED 6"6" TO TOP. SEE SPECIFICATIONS, PANEL SCHEDULES AND ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
	CONDUIT WITH WIRING RUN CONCEALED IN OR ABOVE CEILING OR WALL, OR RUN EXPOSED IN UNFINISHED AREAS. CROSS HATCHING INDICATES NUMBER OF CONDUCTORS (#12 AWG - MINIMUM). PROVIDE A CODE-SIZED GROUND WIRE IN ALL CONDUITS IN ADDITION TO THE CONDUCTORS SHOWN. SHADED DOT INDICATES CODE-SIZED ISOLATED GROUND WIRE IN CONDUIT.
	CONDUIT WITH WIRING RUN CONCEALED BELOW FLOOR. CROSS HATCHING INDICATES NUMBER OF CONDUCTORS (#12 AWG - MINIMUM). PROVIDE A CODE-SIZED GROUND WIRE IN ALL CONDUITS IN ADDITION TO THE CONDUCTORS SHOWN. SHADED DOT INDICATES CODE-SIZED ISOLATED GROUND WIRE IN CONDUIT.
	DISCONNECT SWITCH - TYPE AND RATING AS INDICATED ON PLANS
S_x	20A - 120V/277V SINGLE POLE TOGGLE SWITCH MOUNTED 48" AFF TO TOP OF BOX, UNLESS NOTED OTHERWISE. IF APPLICABLE, LOWER CASE SUBSCRIPT "x" - KEYS SWITCH TO FIXTURES BEING CONTROLLED (TYPICAL OF ALL SWITCH SYMBOLS)
S_D	DESIGNER GRADE PRESET DIMMER SWITCH MOUNTED 48" AFF TO TOP OF BOX, UNLESS NOTED OTHERWISE. SWITCH SHALL BE RATED PER LOAD BEING SERVED. INSTALL PER MANUFACTURER'S INSTRUCTIONS. ADJUST SETTINGS AND COMMISSION PER OWNER REQUIREMENTS. BASIS OF DESIGN IS LUTRON "DVA OR NOVA T OR MAESTRO" SERIES.
S_{OC}	LINE VOLTAGE PASSIVE INFRARED WALL SWITCH VACUANCY SENSOR MOUNTED 48" AFF TO TOP OF BOX, UNLESS NOTED OTHERWISE (OC2 - DUAL RELAY). MANUAL ON/AUTO/MOFF. MANUFACTURER SHALL BE WATSTOPPER, HUBBELL, SENSOR SWITCH, COOPER CONTROLS, OR LUTRON.
S_{OC}^D	LINE VOLTAGE PASSIVE INFRARED WALL SWITCH OCCUPANCY SENSOR WITH DESIGNER GRADE PRESET DIMMER SWITCH MOUNTED 48" AFF TO TOP OF BOX, UNLESS NOTED OTHERWISE (OC2 - DUAL RELAY). SWITCH SHALL BE RATED PER LOAD BEING SERVED. INSTALL PER MANUFACTURER INSTRUCTIONS. ADJUST SETTINGS AND COMMISSION PER OWNER REQUIREMENTS. BASIS OF DESIGN IS LUTRON MAESTRO.
S_{OR}	TIMED OVERRIDE SWITCH, 20A - 120V SINGLE POLE TOGGLE SWITCH MOUNTED 48" AFF TO TOP OF BOX, UNLESS NOTED OTHERWISE. PROVIDE MAXIMUM 4 HOUR OVERRIDE.
S_V	VOLUME SWITCH MOUNTED 48" AFF TO TOP OF BOX, UNLESS NOTED OTHERWISE.
S_2	20A - 120V/277V DOUBLE POLE TOGGLE SWITCH MOUNTED 48" AFF TO TOP OF BOX, UNLESS NOTED OTHERWISE.
	20A - 125V GROUNDING TYPE DUPLEX RECEPTACLE MOUNTED 18" AFF TO TOP OF BOX, UNLESS NOTED OTHERWISE.
	20A - 125V GROUNDING TYPE QUADRAPLEX RECEPTACLE MOUNTED 18" AFF TO TOP OF BOX, UNLESS NOTED OTHERWISE.
	20A - 125V ISOLATED GROUND TYPE QUADRAPLEX RECEPTACLE MOUNTED 18" AFF TO TOP OF BOX, UNLESS NOTED OTHERWISE.
	20A - 125V GROUND FAULT INTERRUPTING TYPE DUPLEX RECEPTACLE MOUNTED 18" AFF TO TOP OF BOX, UNLESS NOTED OTHERWISE.
Ψ^C	20A - 125V GROUNDING TYPE DUPLEX RECEPTACLE RECESSED MOUNTED FLUSH IN FINISHED CEILING, UNLESS NOTED OTHERWISE. RECEPTACLE AND FACEPLATE FINISH TO MATCH FINISH OF CEILING.
	FURNISH AND INSTALL A COMPLETE FLOOR BOX SYSTEM WHICH INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING: SINGLE GANG, CAST IRON, FULLY ADJUSTABLE FLOOR BOX RECESSED IN CONCRETE FLOOR SLAB WITH (2) 20A DUPLEX RECEPTACLE, FLUSH BRASS FINISHED CARPET FLANGE AND COVER. FOR TILE FLOOR INSTALLATION, PROVIDE APPROPRIATE FLANGE SO THAT TOP COVER OF FLOOR BOX IS FLUSH WITH TILE. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. FLOOR BOX IS CAPABLE OF ACCEPTING (4) 1" CONDUITS. FURNISH AND INSTALL SYSTEM PER MANUFACTURER'S INSTRUCTIONS. C#880CS2-1, #827B, #2628R
	FURNISH AND INSTALL A COMPLETE FLOOR BOX SYSTEM WHICH INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING: SINGLE GANG, CAST IRON, FULLY ADJUSTABLE FLOOR BOX RECESSED IN CONCRETE FLOOR SLAB WITH (1) 20A DUPLEX RECEPTACLE, FLUSH BRASS FINISHED CARPET FLANGE AND COVER. FOR TILE FLOOR INSTALLATION, PROVIDE APPROPRIATE FLANGE SO THAT TOP COVER OF FLOOR BOX IS FLUSH WITH TILE. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. FLOOR BOX IS CAPABLE OF ACCEPTING (4) 1" CONDUITS. FURNISH AND INSTALL SYSTEM PER MANUFACTURER'S INSTRUCTIONS. WIREMOLD#880CS1-1, #817B
	SPECIAL PURPOSE RECEPTACLE - RATING AND NEMA CONFIGURATION AS REQUIRED FOR EQUIPMENT BEING PROVIDED. MOUNT 18" AFF, UNLESS OTHERWISE NOTED.
	JUNCTION BOX - TYPE AND SIZE AS REQUIRED BY NEC
	BACKBOX FOR TELEPHONE DEVICE MOUNTED 54" AFF TO TOP OF BOX, UNLESS NOTED OTHERWISE. PROVIDE 1" WITH PULLWIRE FROM J-BOX WITH SINGLE GANG PLASTER RING TO ACCESSIBLE CEILING SPACE. FURNISH AND INSTALL CONDUIT BUSHINGS.
	BACKBOX FOR DATA DEVICE(S) MOUNTED 18" AFF TO TOP OF BOX, UNLESS NOTED OTHERWISE. PROVIDE 1" WITH PULLWIRE FROM J-BOX WITH SINGLE GANG PLASTER RING TO ACCESSIBLE CEILING SPACE. FURNISH AND INSTALL CONDUIT BUSHINGS.
$\square_{CR}$	CONTACTOR - TYPE AND RATING AS INDICATED ON PLANS. REFER TO CONTACTOR SCHEDULE.
	INLINE TRACK CURRENT LIMITER - CONTACT LA-23T-R-NP
	TIME CLOCK WITH ENCLOSURE RATED FOR APPLICATION. PROVIDE 120V CIRCUIT TO POWER EQUIPMENT. INSTALL AND WIRE PER MANUFACTURER'S INSTRUCTIONS. TYPE AND RATINGS AS INDICATED ON PLANS. ADJUST SETTINGS PER OWNER'S REQUIREMENTS.
$\odot_{CX}$	LOW VOLTAGE CEILING MOUNTED VACANCY SENSOR. LOCATE AS DIRECTED PER MANUFACTURER AND PROVIDE STANDARD VS. EXTENDED COVERAGE RANGE AS DIRECTED BY MANUFACTURER. REFER TO TYPICAL LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM ON SHEET E3. (1 = DUAL, TECHNOLOGY 380° COVERAGE PATTERN; 2 = DUAL TECHNOLOGY CORNER MOUNTED WITH WIDE VIEW COVERAGE PATTERN); 3 = PIR NARROW HALLWAY COVERAGE PATTERN). MANUAL ON/AUTO/MOFF. MANUFACTURER SHALL BE WATSTOPPER, HUBBELL, SENSOR SWITCH, COOPER CONTROLS, OR LUTRON.
	LOW VOLTAGE CEILING MOUNTED DAYLIGHT SENSOR CONNECTED TO LOW VOLTAGE LIGHTING CONTROL SYSTEM. LOCATE AS DIRECTED PER MANUFACTURER.
	BURGLAR ALARM DOOR CONTACT
	BURGLAR ALARM CEILING MOUNTED MOTION DETECTOR
	BURGLAR ALARM KEYPAD
	BURGLAR ALARM SIREN
	MOTOR OPERATED DAMPER - FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR. TYPE AND RATING AS INDICATED ON PLANS. SEE MECHANICAL PLANS FOR CONTROL REQUIREMENTS.
	DUCT-TYPE SMOKE DETECTOR WITH REMOTE TEST STATION AND AUXILIARY RELAY FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR; INSTALLED IN DUCTWORK BY MECHANICAL CONTRACTOR PER CODE. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR AND MANUFACTURER. PROVIDE CONDUIT AND WIRING NECESSARY TO SHUT DOWN HVAC UNIT UPON ACTIVATION OF SMOKE DETECTOR.

PANEL DESIGNATION				S				
120/208	VOLTS	3 PH.	4 WIRE SPLIT NEUTRAL	MOUNTING: FLUSH				
225	AMPERE BUS	200	AMPERE MAIN	MCB	SURFACE ☒			
SPECIAL REQUIREMENTS								
QTY	KVA	DESCRIPTION	A	B	B	DESCRIPTION	QTY	KVA
1	0.4	LTG - SHOW WINDOW TRACK	0.7			LTG - DOWNLIGHTS, DECOR.	0.3	0.3
3	0.9	LTG - TRACK		1.4		LTG - SALES AREA	0.5	0.5
5	1.1	LTG - TRACK			1.2	LTG - CHANDELIER	0.1	0.1
7	1.1	LTG - TRACK	0.4			LTG - COVE LIGHTING	0.3	0.3
9	0.9	RCPT - SHOW WINDOW REC.		1.3		FLOOR BOX - CASHWRAP	0.4	0.4
11	0.8	RCPT - SALES FLOOR			1.2	RCPT - CASHWRAP IG	0.4	0.4
13	0.7	RCPT - CASHWRAP	1.1			RCPT - CASHWRAP IG	0.4	0.4
15	0.4	RCPT - TELEPHONE BOARD		3.0		WASHER/DRYER COMBO	2.6	2.6
17	0.7	RCPT - SECURITY SYSTEM			3.3	↓	2.6	2.6
19	0.5	RCPT - STEREO SYSTEM	0.9			RCPT - STOCK ROOM	0.4	0.4
21	0.4	RCPT - WAITING ROOM		0.6		RCPT - RESTROOM	0.2	0.2
23	1.2	SIGN			1.7	HAND DRYER	0.5	0.5
25	0.4	RCPT - SECURITY	1.9			EW-H-1	1.5	1.5
27	1.2	SIGN		2.7		↓	1.5	1.5
29	0.1	LTG - B-O-H			0.1	SPARE	-	-
31	-	SPARE	11.6			PANEL D	11.6	11.6
33	-	SPARE		12.2		↓	12.2	12.2
35	-	SPARE			6.9	SPARE	-	-
37	-	SPARE	-			SPARE	-	-
39	0.1	TIMECLOCK, CONTACTORS		0.1		SPARE	-	-
41	0.1	EMERGENCY LIGHTING			0.7	EW-C	0.6	0.6
KVA SUB TOTALS			16.6	21.3	15.1	TOTAL CONNECTED LOAD		
						53.0 KVA		

[illegible]

LOAD SUMMARY					120/208V 3Ø, 4W SUPPLY
DESCRIPTION	ACTUAL CONNECTED KW/KVA	POWER FACTOR	N.E.C. CONNECTED KW/KVA	N.E.C. DEMAND FACTOR	N.E.C. DEMAND KVA
LIGHTING	1.3	1.00	1.3	1.25	2.3
TRACK LIGHTING	2.5	1.00	2.5	1.25 ***	3.1
SHOW WINDOW LIGHTING ALLOWANCE	0.9	1.00	0.9	(16'-0" X 0.200)*0.1	3.2
RECEPTACLES	5.7	1.00	5.7	1.0 < 10KW 0.5 REMAINING KW	5.7
SIGN	2.4	1.00	2.4	1.25	3.0
HVAC	30.7	1.00	30.7	1.00****	30.7
WATER HEATER	3.0	1.00	3.0	1.25	3.7
MISCELLANEOUS	6.5	1.00	6.5	1.00	6.5
TOTAL	53.0		53.0		58.2

NOTES
 ** N.E.C. ARTICLE 220.43 REQUIREMENT (200VA PER FOOT OF SHOW WINDOW) MINUS ACTUAL INSTALLED SHOW WINDOW LIGHTING VA.
 *** BASED ON CURRENT LIMITERS
 **** LOAD CALCULATIONS BASED ON MICA
 ***** BASED ON THE GREATER HVAC LOAD

$$\frac{\text{N.E.C. DEMAND KVA} \times 1000}{\text{SYSTEM VOLTAGE } \times \sqrt{3}} = \text{MINIMUM FEEDER AMPERAGE}$$

$$\frac{58.2 \times 1000}{208 \times 1.732} = 161.5$$

EXISTING 200A SERVICE

- ALL BREAKERS SHALL BE 20kV/P, UNLESS NOTED OTHERWISE.
- ALL BREAKERS SHALL BE HACR RATED.

NOTE: NOT ALL NOTES BELOW MAY APPLY TO THIS PROJECT.

- 1. [1] INDICATES BREAKER SHALL BE "SWD" RATED.
- 2. [2] INDICATES BREAKER SHALL BE COMBINATION "ARC-FAULT / GFI" TYPE.
- 3. [3] INDICATES BREAKER SHALL BE "GFI" TYPE, WITH RATING AS REQUIRED BY NEC PER APPLICATION. PROVIDE 5mA RATING FOR PERSONNEL PROTECTION. PROVIDE 30mA RATING FOR EQUIPMENT PROTECTION.
- 4. [4] INDICATES BREAKER SHALL BE SHUNT-TRIP TYPE.
- 5. [5] INDICATES BREAKER TO BE "ARC-FAULT" TYPE.
- 6. [6] INDICATES BREAKER TO HAVE LOCK-ON CLIP.
- 7. [7] INDICATES BREAKER TO HAVE LOCK-ON CLIP AND RED MARKING.
- 8. [8] INDICATES CIRCUIT TO HAVE REMOTE 5mA GFI PROTECTION MODULE MOUNTED IN JUNCTION BOX WITH HINGED COVER ADJACENT TO PANELBOARD. MODULE SHALL BE LABELED AS TO THE CIRCUIT AND EQUIPMENT THAT IS BEING PROTECTED.
- 9. [9] "C" INDICATES DESIGNATION OF CONTACTOR CONTROLLING CIRCUIT. SEE CONTACTOR SCHEDULE.
- 10. [10] "RP" INDICATES DESIGNATION OF RELAY / LIGHTING CONTROL SYSTEM MODULE CONTROLLING CIRCUIT. SEE LIGHTING CONTROL DETAILS.

EO

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NO.	DATE	DESCRIPTION

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ELECTRICAL TITLE SHEET & PANEL SCHEDULES

GRAPHIC SCALE

SEISMIC BRACING NOTES

1. COMPLY WITH SEISMIC RESTRAINT REQUIREMENTS IN THE 2018 WASHINGTON STATE BUILDING CODE (IBC) AND LOCAL BUILDING CODES, UNLESS REQUIREMENTS IN THIS SECTION ARE MORE STRINGENT.

2. COORDINATE LAYOUT AND INSTALLATION OF SEISMIC BRACING WITH BUILDING STRUCTURAL SYSTEM AND ARCHITECTURAL FEATURES, AND WITH MECHANICAL, FIRE-PROTECTION, ELECTRICAL, AND OTHER BUILDING FEATURES IN THE VICINITY.

3. ACCEPTABLE MANUFACTURERS FOR SEISMIC BRACING DEVICES:
B-LINE SYSTEMS, INC.
ERICO, INC.
GS METALS CORP.
MASON INDUSTRIES, INC.
THOMAS & BETTS CORP.
UNISTRUT CORPORATION.

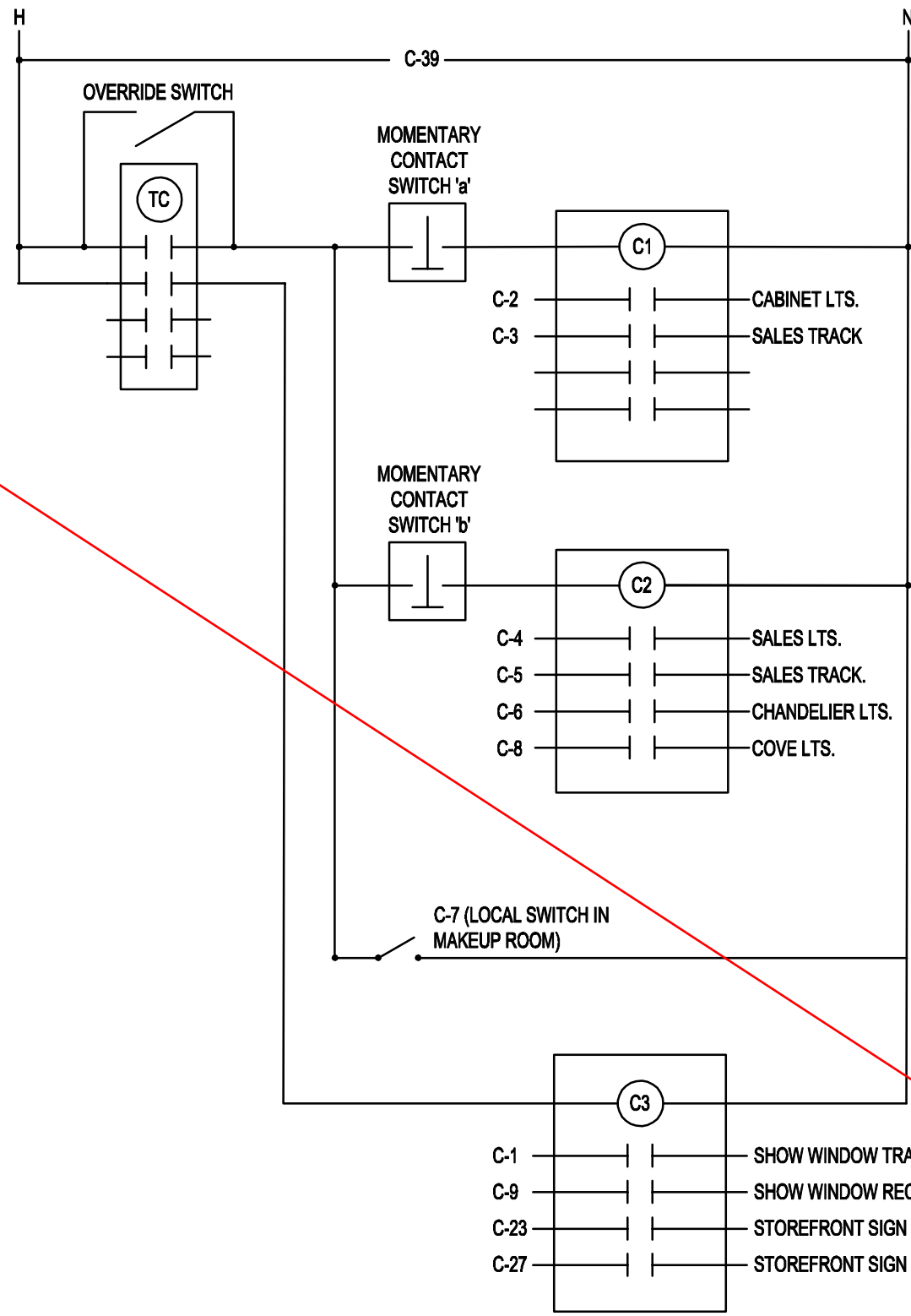
4. INSTALL SEISMIC RESTRAINTS ACCORDING TO APPLICABLE CODES AND REGULATIONS AND AS APPROVED BY AUTHORITIES HAVING JURISDICTION, UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED HEREWITH:

ANCHOR RIGIDLY TO A SINGLE MOBILE STRUCTURAL ELEMENT OR TO A CONCRETE BASE THAT IS STRUCTURALLY TIED TO A SINGLE MOBILE STRUCTURAL ELEMENT. ANCHOR PANELBOARDS, TRANSFORMERS, FUSED POWER-CIRCUIT DEVICES, COMMUNICATION SYSTEM COMPONENTS, AND ELECTRONIC SIGNAL PROCESSING, CONTROL, AND DISTRIBUTION UNITS AS FOLLOWS: SIZE CONCRETE BASES SO EXPANSION ANCHORS WILL BE A MINIMUM OF 10 BOLT DIAMETERS FROM THE EDGE OF THE CONCRETE BASE.

ANCHOR BOLT BUSHING ASSEMBLIES FOR WALL-MOUNTED EQUIPMENT: INSTALL TO ALLOW FOR RESILIENT MEDIA WHERE EQUIPMENT OR EQUIPMENT-MOUNTING CHANNELS ARE ATTACHED TO WALL. TORQUE BOLTS AND NUTS ON STUDS TO VALUES RECOMMENDED BY EQUIPMENT MANUFACTURER.

MAKE FLEXIBLE CONNECTIONS IN RACEWAYS, CABLES, AND WIREWAYS WHERE THEY CROSS EXPANSION AND SEISMIC CONTROL JOINTS, WHERE ADJACENT SECTIONS OR BRANCHES ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, AND WHERE THEY TERMINATE AT ELECTRICAL EQUIPMENT ANCHORED TO A DIFFERENT MOBILE STRUCTURAL ELEMENT FROM THE ONE SUPPORTING THEM.

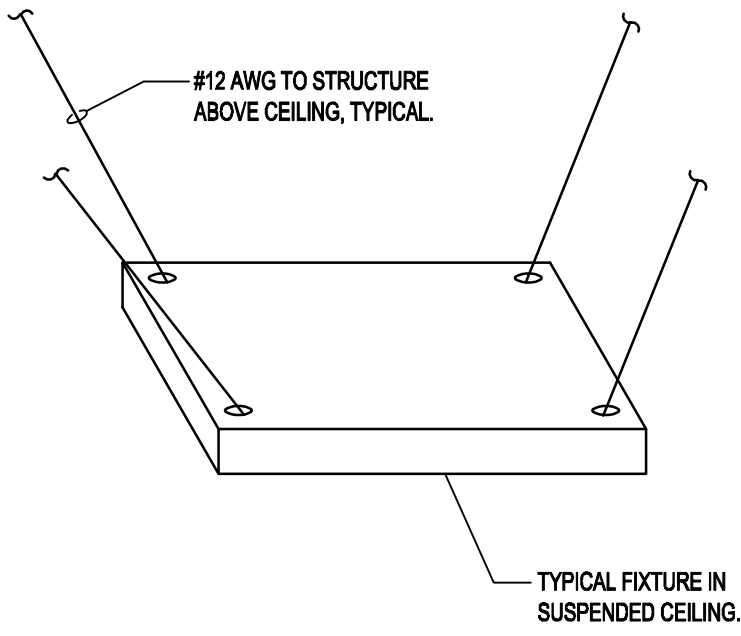
5. ELECTRICAL EQUIPMENT AND SUPPORT SYSTEMS BEING INSTALLED SHALL BE RATED TO COMPLY WITH PROJECT VIBRATION AND SEISMIC CONTROL REQUIREMENTS.



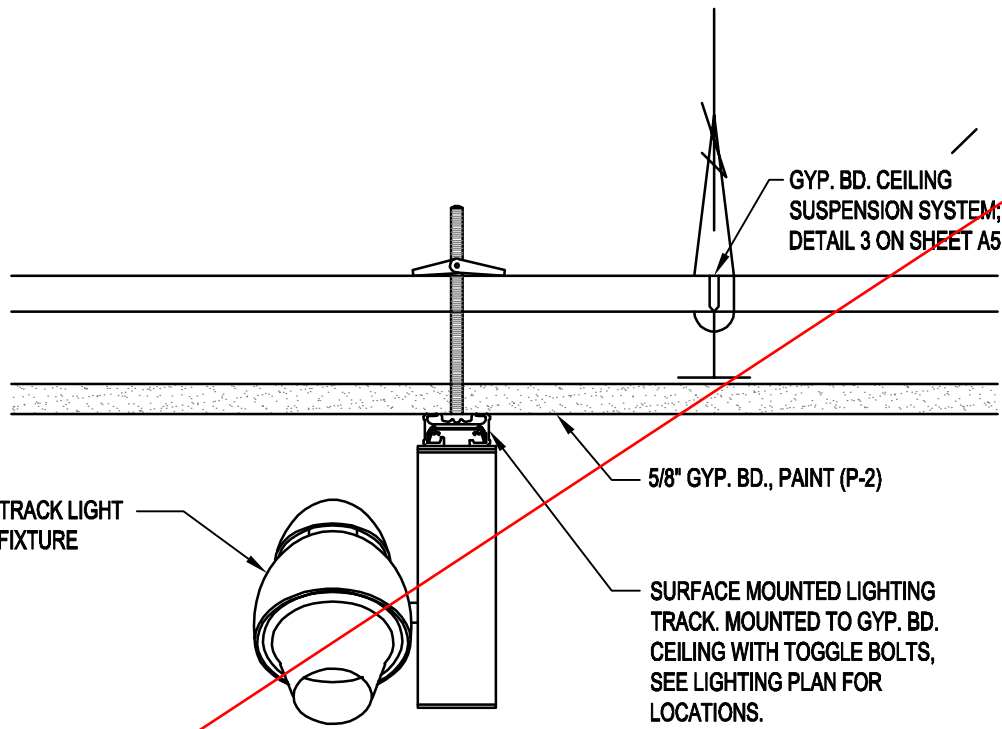
LIGHTING CONTROL DIAGRAM
NTS

CONTACTOR SCHEDULE						
MARK	AREA	CONTROL	COIL	LINE	POLE	AMP CIRCUITS CONTROLLER
C1	PERIMETER LIGHTING	SWITCH a	120	120	4	20 C-2,3
C2	GENERAL SALES LIGHTING	SWITCH b	120	120	4	20 C-4,5,6,8
C3	STOREFRONT LIGHTING, SIGNAGE, RECEPTACLES	TIMECLOCK	120	120	4	20 C-1,9,27

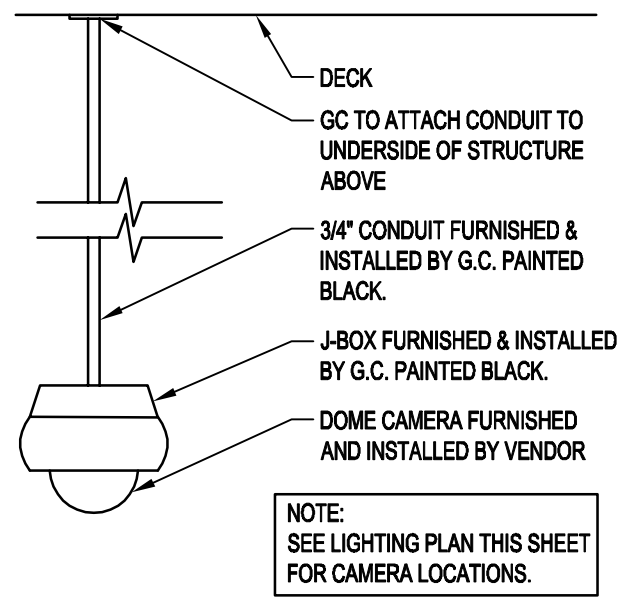
- NOTES:
- MOUNT CONTACTORS IN PROPER NEMA ENCLOSURE FOR ENVIRONMENT.
 - ALL CONTACTORS SHALL BE MECHANICALLY HELD WITH 2-WIRE CONTROL MODULE.
 - ACCEPTABLE MANUFACTURERS ARE ASCO AND SQUARE D.



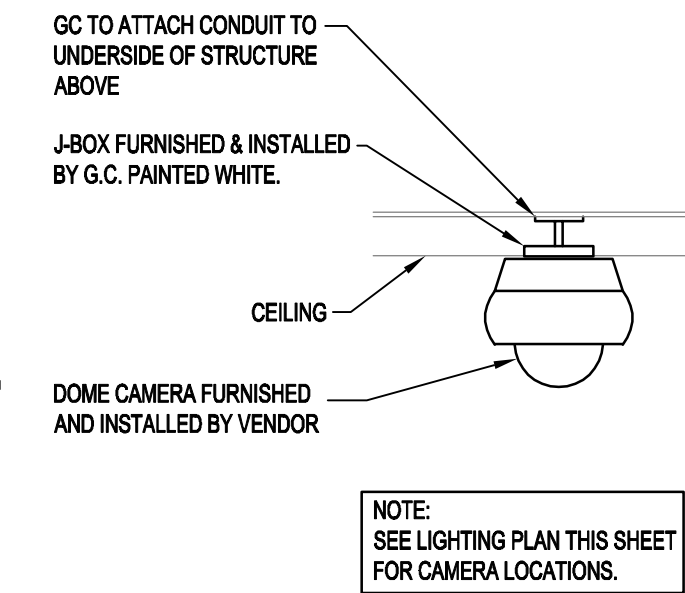
TYPICAL LIGHT FIXTURE
SEISMIC SUPPORT DETAIL
NO SCALE



TRACK HANGING DETAIL ON GYP. BD.
NTS



PENDANT MOUNTED
CCTV CAMERA DETAIL
NTS



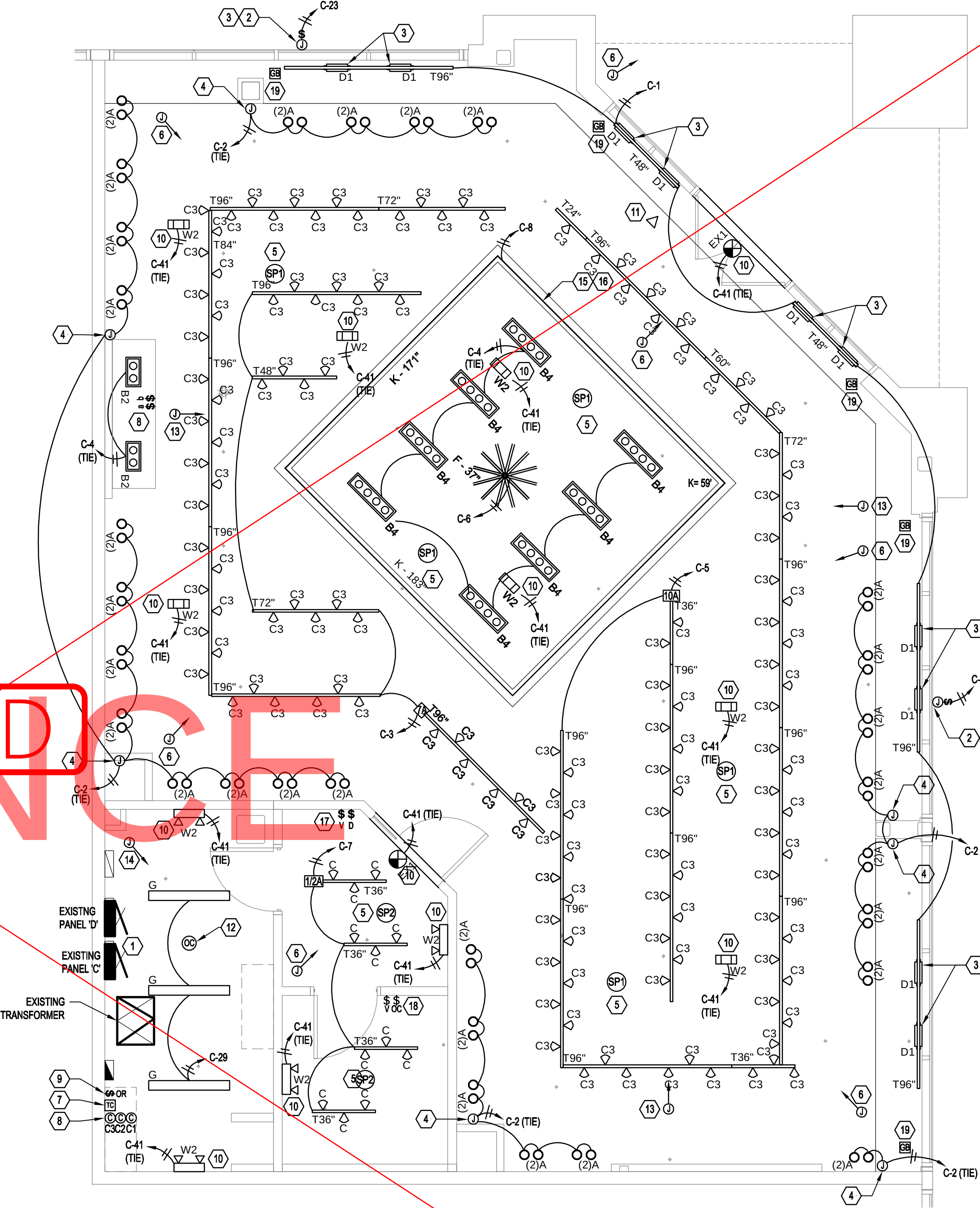
CEILING MOUNTED
CCTV CAMERA DETAIL
NTS

GENERAL NOTES:

- ELECTRICAL CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR ALL LIGHT FIXTURE LOCATIONS.
- CONTRACTOR SHALL COMPLETELY REMOVE ALL EQUIPMENT, PANELBOARDS, DEVICES, FIXTURES, WIRING, CONDUIT, ETC., AND ALL ASSOCIATED SUPPORTS, BRACING, PADS, ETC., NOT BEING REUSED OR SHOWN TO REMAIN WHETHER IN THE DEMISED SPACE, ON THE ROOF OR OTHERWISE LOCATED OUTSIDE OF THE DEMISED SPACE. DO NOT ABANDON IN PLACE.
- ALL LINEAR FLOURESCENT LIGHT FIXTURES SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF NEC SECTION 410-130(G) REGARDING LOCAL DISCONNECTING MEANS.
- ALL 120 VOLT BRANCH CIRCUITS IN EXCESS OF 75' SHALL HAVE CONDUCTOR SIZE INCREASED A MINIMUM OF 1 CONDUCTOR SIZE. INSTALLING CONTRACTOR SHALL DETERMINE ACTUAL CONDUCTOR SIZE TO BE INSTALLED TO ADHERE TO VOLTAGE DROP REQUIREMENTS.
- PROVIDE A NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT. NEUTRAL SHARING IS NOT ALLOWED. PROVIDE MULTI-BREAKER AS ALTERNATE PER NEC. REQUIREMENT.
- ELECTRICAL SYSTEM SHALL BE GROUNDED AND BONDED PER NEC REQUIREMENTS AND AUTHORITY HAVING JURISDICTION.
- CONDUIT AND WIRING FOR ALL POWER/DATA RUNNING IN OPEN TO DECK CEILING TO BE IN ORGANIZED AND STRAIGHT RUNS BEHIND DUCTWORK OR AS CLOSE TO WALLS AS POSSIBLE.
- FUNCTIONAL TESTING OF THE LIGHTING SHALL BE PERFORMED IN ACCORDANCE WITH C408.3.

CODED NOTES: (#)

- LOCATION OF ELECTRICAL EQUIPMENT. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET E3 AND PANEL BOARD SCHEDULES ON SHEET E0.
- NEW JUNCTION BOX, SWITCH AND CONDUIT RUN THROUGH WALL. FOR STORE SIGN. COORDINATE THE EXACT REQUIREMENTS AND LOCATIONS WITH SIGN VENDOR. AN OUTSIDE WHIP IS NEEDED.
- BRANCH CIRCUIT TO BE CONTROLLED BY THE TIME CLOCK VIA C3. COORDINATE EXACT SCHEDULING FORMAT WITH LANDLORD.
- ONE J-BOX PER RUN OF FIXTURES ON DEDICATED LINES AT 7'-8" A.F.F. ALL HARD WIRE BOXES TO BE PLACED AT J-BOX TO SUPPLY LOADS AND CIRCUITING (TYPICAL OF ALL FIXTURES). REFER TO PERIMETER FIXTURE SECTION DETAIL ON SHEET E3 FOR FURTHER INFORMATION.
- SPEAKER WIRING PROVIDED AND INSTALLED BY E.C. SPEAKER AND FINAL CONNECTIONS ARE PROVIDED BY VENDOR. ZONE 1 SPEAKERS, "SP1" AND ZONE 2 SPEAKERS, "SP2" TO BE RECESS MOUNTED IN GYP. BD. CEILING. COORDINATE EXACT SPEAKER TYPE, QUANTITIES AND LOCATIONS PRIOR TO ROUGH-IN. E.C. TO RUN ALL CABLES TO STOCKROOM. SEE SHEET E2 FOR LOCATIONS OF VOLUME CONTROLS. E.C. TO DUSTY CHAIN TO VOLUME CONTROL AND AMP IN STOCKROOM.
- SURFACE MOUNTED CCTV CAMERA. E.C. TO PROVIDE PLENUM RATED CAT6 CABLE FROM SYSTEM HEADEND LOCATED IN DATA CABINET IN STOCK ROOM TO EACH CAMERA LOCATION. PROVIDE A 60" ADDITIONAL CAT6 SERVICE LOOP AT CAMERA LOCATION. VERIFY EXACT CAMERA LOCATIONS PRIOR TO ROUGH-IN. CAMERAS AND EQUIPMENT FURNISHED BY TENANT'S VENDOR. REFER TO "CEILING MOUNTED CCTV CAMERA DETAIL" ON THIS SHEET FOR MORE INFORMATION.
- PROVIDE TIMECLOCK FOR MASTER CONTROL OF CONTACTORS C1, C2, AND C3. COORDINATE SETTINGS WITH STORE OPERATIONS.
- PROVIDE MULTIPOLAR LIGHTING CONTACTORS (C1, C2, AND C3) FOR SALES AREA DISPLAY LIGHTING, SALES AREA GENERAL LIGHTING AND STOREFRONT LIGHTING AND RECEPTACLES. CONTACTORS C1 AND C2 SHALL BE CONTROLLED BY WALL SWITCHES (A & B) LOCATED WITHIN BACKWAP. SWITCHES SHALL BE APPROPRIATELY LABELED "PERIMETER LIGHTING", AND "SALES LIGHTING", AND BE GANGED UNDER ONE COVERPLATE. CONTACTOR C3 SHALL BE CONTROLLED BY THE TIMECLOCK. REFER TO "CONTACTOR SCHEDULE" AND "CONTACTOR SCHEDULE" FOR LOCATION OF SWITCHES. IN BACKWAP.
- PROVIDE MANUAL OVERRIDE SWITCH (ON) FOR MASTER CONTROL OF TIMECLOCK AND CONTACTORS. SWITCH SHALL BE A TIME OVERRIDE TYPE. MAXIMUM TIME SETTING OF FOUR (4) HOURS.
- EXIT, NIGHT, AND EMERGENCY LIGHTING SHALL BE CIRCUITED AHEAD OF SWITCHING IN THIS ROOM.
- PROVIDE (1) CAT6 CABLE TO LOCATION IN CEILING AS SHOWN FOR FUTURE INSTALLATION OF LTE DEVICE. PROVIDE 24" EXTRA COIL AT CEILING HEIGHT. ALL WIRES TO BE RUN BY E.C. AT THE DECK LEVEL. REFER TO "PENDANT MOUNTED CCTV DETAIL" ON THIS SHEET FOR FURTHER INFORMATION.
- PROVIDE PENDANT MOUNTED, DUAL TECHNOLOGY OCCUPANCY SENSOR WITH COIL RATE. FOR COIL RATE AND INSTALLATION. PROVIDE REQUIRED POWER SUPPLIES, RELAYS, ETC. FOR A COMPLETE INSTALLATION. SEE DETAIL ON SHEET E3 FOR MORE INFORMATION.
- PROVIDE A CAT6 DROP FROM PLYWOOD AT PHONE BOARD TO LOCATION IN CEILING AS SHOWN FOR FUTURE INSTALLATION OF MERAKI BOXES. PROVIDE 24" EXTRA COIL AT CEILING HEIGHT. ALL WIRES TO BE RUN BY E.C. AND THE MERAKI BOXES ARE FURNISHED AND INSTALLED BY VENDOR.
- PENDANT MOUNTED CCTV CAMERA. BOTTOM OF CAMERA TO BE 10' A.F.F. E.C. TO PROVIDE CAT6 CABLE FROM SYSTEM HEAD LOCATED IN DATA CABINET IN STOCK ROOM TO EACH CAMERA LOCATION. VERIFY EXACT CAMERA LOCATIONS PRIOR TO ROUGH-IN. CAMERAS AND EQUIPMENT FURNISHED BY TENANT'S VENDOR. REFER TO PENDANT MOUNTED CCTV DETAIL ON THIS SHEET FOR FURTHER INFORMATION.
- DRIVERS FOR ALL LIGHT FIXTURES WITHIN THE COVE NEED TO BE NEAR AN ACCESS PANEL OUTSIDE OF THE COVE AREA. NO DRIVERS ARE TO BE IN THE COVE AREA. PROVIDE "TENTING" FOR DRIVERS IF NECESSARY.
- PROVIDE (8) 60W DRIVERS FOR TYPE K VERIFY ADEQUATE VENTILATION AND INSTALL NEAR ACCESS PANELS. INSTALL PER MANUFACTURERS SPECIFICATIONS. CUT IN FIELD.
- E.C. TO PROVIDE LUTRON DIVA DIMMERSWITCH (WHITE) AND VOLUME CONTROL (NILES AUDIO SVC100K - WHITE). GANG UNDER ONE COVER PLATE. SEE WAITING AREA / MAKE-UP ROOM SWITCHPLATE DETAIL ON SHEET E3 FOR REFERENCE. E.C. TO WIRE TO "SP2" SPEAKER IN SAME ROOM. E.C. TO CONNECT BACK TO STEREO SYSTEM ZONE 2 IN STOCK ROOM.
- PROVIDE OCCUPANCY SWITCH (WHITE), VOLUME CONTROL (NILES AUDIO SVC100K - WHITE). GANG UNDER ONE COVER PLATE. SEE SWITCHPLATE DETAIL - TOILET ROOM ON SHEET E3 FOR REFERENCE. E.C. TO WIRE TO "SP2" SPEAKER IN SAME ROOM. E.C. TO CONNECT TO RACK TO STEREO SYSTEM ZONE 2 IN STOCK ROOM.
- GLASS BREAK - PROVIDE 22AWG-4C-UNSHIELDED PLENUM FROM SYSTEM HEADEND LOCATED IN STOCK ROOM TO EACH GLASS BREAK. VERIFY EXACT GLASS BREAK LOCATIONS PRIOR TO ROUGH-IN. GLASS BREAK AND EQUIPMENT FURNISHED BY TENANT'S VENDOR.



A SEPARATE ELECTRICAL
PERMIT IS REQUIRED
ELECTRICAL PLAN
REVIEW REQUIRED



ELECTRICAL LIGHTING PLAN
1/4" = 1' - 0"

ALL LOW VOLTAGE WIRING FOR CCTV, POS, DATA AND TELEPHONE SHALL BE RUN IN OPEN AIR UTILIZING PLENUM RATED CABLE UNLESS REQUIRED BY CODE OR AUTHORITY HAVING JURISDICTION TO BE INSTALLED IN CONDUIT. SEE SHEET E4 FOR LOW VOLTAGE INFORMATION. REFER TO SHEET E3 FOR LIGHTING SCHEDULE AND DETAILS.

NOTE:
REFER TO SHEET E3 FOR LIGHTING SCHEDULE AND DETAIL.

NOTE:
CURRENT LIMITERS NEED TO BE BASED OFF CALCS. ONLY NEED TO PROVIDE THEM AT THE HOME-RUN CIRCUIT.

bluemercury

THE VILLAGE AT
TOTEM LAKE

11901 N.E. VILLAGE
PLAZA, SUITE 141
KIRKLAND, WA 98034



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NO. DATE DESCRIPTION

DATE: 07/18/2022
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ELECTRICAL
LIGHTING
PLAN

E1

GRAPHIC SCALE:



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NO.	DATE	DESCRIPTION
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PROJECT NO.:	22129
FILE NAME:	2022-0809 E2.dwg

ELECTRICAL
POWER
PLAN

E2

GRAPHIC SCALE:

REFER TO SHEET E3 FOR DETAILS

CODED NOTES:

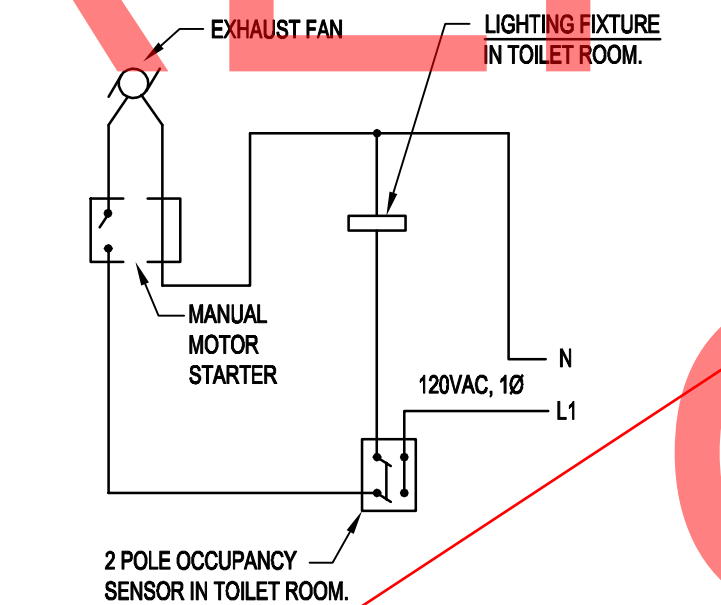
- LOCATION OF ELECTRICAL EQUIPMENT. REFER TO POWER RISER DIAGRAM ON SHEET AND PANELBOARD SCHEDULES ON SHEET E0.
- NOT USED
- E.C. TO PROVIDE POWER IN CABINET INTERIOR FOR DATA / DSL. VENDOR TO FURNISH AND COMPLETE FINAL CONNECTIONS. COORDINATE WITH MILLWORK VENDOR. SEE TYPICAL DEVICE MOUNTING HEIGHT IN SHEET E3 AND BACKWRAP DETAIL PLAN ON SHEET E3 FOR EXACT LOCATIONS.
- THE DEDICATED (DG) CIRCUITS USED TO POWER THE ELECTRONIC CASH REGISTERS SHALL NOT BE USED FOR ANY OTHER PURPOSES. THE CIRCUITS SHALL NOT SHARE THE NEUTRAL OR GROUND WITH OTHER EQUIPMENT. SEPARATE POWER, NEUTRAL AND DEDICATED GROUND WIRES, MINIMUM SIZE #12 AWG, SHALL BE RUN TO THE CIRCUIT BREAKER PANELBOARD WHERE GROUND WIRE SHALL BE TIED TO THE GROUND TERMINAL ISOLATED FROM NEUTRAL. DO NOT USE THE CONDUIT FOR GROUNDING. ELECTRONIC CASH REGISTER OUTLETS SHALL BE LEVITON NO. IG-5362 (ORANGE COLOR), OR APPROVED EQUAL. MOUNT IN BACKWRAP AFTER IT IS INSTALLED.
- E.C. TO PROVIDE DATA RUNS AS INDICATED AND EXTEND ALL PHONE AND DATA CABLES WITHIN THE FIXTURE RACEWAY TO EACH P.O.S. LOCATION. SEE CABLING FOR DSL NOTE, THIS SHEET. MOUNT DATA DEVICES IN BACKWRAP AFTER IT IS INSTALLED.
- PLENUM RATED CAT-6 CABLING FROM ELECTRICAL EQUIPMENT LOCATION TO DEVICES AT BACKWRAP. PROVIDE A 8" ADDITIONAL CAT-6 SERVICE LOOP AT BACKWRAP LOCATION. REFER TO CABLING FOR DSL NOTE THIS SHEET.
- PROVIDE POWER FOR DOOR ANNUNCIATOR SYSTEM. COORDINATE LOCATION AND INSTALLATION WITH OWNER AND MANUFACTURER PRIOR TO ROUGH-IN. SYSTEM TO BE AMSECO EBP-407C.
- MILES AUDIO SVC100K - WHITE VOLUME CONTROL PROVIDED BY E.C. FOR ALL 'SP' SPEAKERS IN SALES AREA. E.C. TO CONNECT BACK TO STEREO SYSTEM 'ZONE 1' IN STOCK ROOM.
- NEW CEILING MOUNTED DUPLEX RECEPTACLES AND COVER PLATE ABOVE SHOW WINDOW, OR WITHIN 18" OF THE TOP OF THE SHOW WINDOW PER NEC. PROVIDE WITH WHITE COVER. CIRCUITS TO BE ROUTED VIA TIME CLOCK CONTROLLED CONTACTOR C3. REFER TO SHEET E1 FOR MORE INFORMATION. RECEPTACLES SHOWN AS MINIMUM. E.C. TO PROVIDE RECEPTACLE FOR EACH 12 FOOT OR MAJOR FRACTION OF SHOW WINDOW.
- MECHANICAL EQUIPMENT. SEE EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- FURNISH AND INSTALL NEW STEREO SYSTEM COMPONENTS ON RACK IN THIS LOCATION. CONNECTION BY E.C.
- E.C. TO PROVIDE WIRING FOR NEW SECURITY SYSTEM ITEMS AS SHOWN:
MOTION DETECTOR 184
DOOR CONTACTS 182 (IF THERE ARE TWO DOORS IN FRONT THEN IT WILL REQUIRE TWO CABLES)
KEYPAD 184
SIREN 182
- PROVIDE AT MINIMUM 4X8 FIRE RATED PLYWOOD BACKBOARD AT TELEPHONE AREA. PROVIDE (2) QUAD RECEPTACLE AND (1) GROUND BAR TIED INTO ELECTRICAL PANEL. SEE "ELECTRICAL ONE-LINE DIAGRAM" ON SHEET E3 FOR MORE DETAILS. VERIFY EXISTING CONDITIONS PRIOR TO BID.
- FURNISH AND INSTALL ALL NEW SECURITY FILMING (CCTV) DEVICES ON RACK IN THIS LOCATION. SEE SECURITY SYSTEM NOTES ON SHEET E1. FINAL CONNECTIONS TO CAMERAS BY VENDOR. SEE SHEET E1 FOR CAMERA LOCATIONS.
- VENDOR SHALL FURNISH, INSTALL AND PROGRAM TELEPHONE SYSTEM, PHONE STATIONS AND HANDSETS. E.C. TO INSTALL ALL NECESSARY WIRING / PUNCHDOWN AND TESTING OF LINES RECOMMENDED BY MANUFACTURER. WALL MOUNTED PHONES TO BE MOUNTED TO BLOCKING IN WALL AND HUNG ACCORDING TO PLAN AT HEIGHT SHOWN. E.C. TO PROVIDE SINGLE GANG RING AND (2) CAT6 CABLES FROM THE 66 BLOCK TO THE DEMARK CABLING AND COVERPLATES BY G.C.
- NOT USED.
- PROVIDE 3/4" FIRE-TREATED PLYWOOD BACKBOARD FOR LOCKABLE DATA RACK.
- PROVIDE NEMA 14-30 TYPE RECEPTACLE FOR A NEW BOSCH WAT28400UC WASHER AND BOSCH WIG88400US DRYER. G.C. TO INSTALL. (1) 240V, 4-PRONG PLUG. VERIFY PLUG CONFIGURATION FOR WASHER AND DRYER AND INSTALL PER MANUFACTURERS INSTRUCTIONS. PROVIDE STAKING KIT WITH PULLOUT TRAY W1211400, COLOR TO BE WHITE.
- CONNECT EXHAUST FAN TO TOILET ROOM LIGHTING CIRCUIT AND CONTROL BY LOCAL SWITCH. SEE DETAIL THIS SHEET.
- PROVIDE 208V, DISCONNECT SWITCH FOR EACH UNIT. INSIDE UNIT POWERS OUTSIDE UNIT.

GENERAL NOTES:

- CONTRACTOR SHALL COMPLETELY REMOVE ALL EQUIPMENT, PANELBOARDS, DEVICES, FIXTURES, WIRING, CONDUIT, ETC. AND ALL ASSOCIATED SUPPORTS, BRACING, PADS, ETC. NOT BEING REUSED OR SHOWN TO REMAIN WHETHER IN THE DEMISED SPACE, ON THE ROOF OR OTHERWISE LOCATED OUTSIDE OF THE DEMISED SPACE. DO NOT ABANDON IN PLACE.
- ALL 120 VOLT BRANCH CIRCUITS IN EXCESS OF 75' SHALL HAVE CONDUCTOR SIZE INCREASED A MINIMUM OF 1 CONDUCTOR SIZE. INSTALLING CONTRACTOR SHALL DETERMINE ACTUAL CONDUCTOR SIZE TO BE INSTALLED TO ADHERE TO VOLTAGE DROP.
- PROVIDE A NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT. NEUTRAL SHARING IS NOT ALLOWED. PROVIDE MULTI-BRAKER AS ALTERNATE PER NEC. REQUIREMENT.
- ELECTRICAL SYSTEM SHALL BE GROUNDED AND BONDED PER NEC REQUIREMENTS AND AUTHORITY HAVING JURISDICTION.
- ALL STANDARD OUTLETS AND DEVICES TO BE WHITE WITH WHITE COVERPLATES. UNLESS NOTED OTHERWISE.
- OUTLETS INDICATED ON PLAN ARE THE DESIRED CONFIGURATION FOR THIS SPACE. GC SHALL REVIEW LOCATIONS OF ALL EXISTING OUTLETS AND COORDINATE AS NECESSARY WITH THOSE ON PLAN. GC SHALL PROVIDE NEW OUTLETS AS NECESSARY AND TERMINATE EXISTING WHERE NOT NEEDED.
- E.C. TO LABEL EVERY OUTLET WITH ITS APPROPRIATE CIRCUIT NUMBER. E.C. TO USE A LABEL PRINTER.

CABLING FOR DSL:

E.C. TO RUN CAT6 CABLES, QUANTITY AS SHOWN ON PLAN, FROM THE TELEPHONE BACKBOARD TO EACH CASH REGISTER TO BE LEFT AT BOTH ENDS IN A 5-FOOT HANGING COIL WHIP. ON THE CASH REGISTER END, THE COILED WHIP IS TO BE FED INSIDE THE CASH REGISTER CABINET. THIS CABLING WILL ALLOW FOR FUTURE NETWORK CONNECTIVITY INSIDE THE STORE. THE ABOVE CABLING SHALL BE ADDITIONAL TO ANY TWISTED PAIRS NEEDED FOR PHONE LINES FOR THE POS MODEMS AT THE BACKWRAP.



WIRING DIAGRAM FOR
TOILET ROOM EXHAUST FAN
N.T.S.

MECHANICAL EQUIPMENT SCHEDULE													
EQUIPMENT TAG	EQUIPMENT NAME	VOLT / PHASE	MCA	MOCP	HP	KW	CONDUIT - WIRE	STARTER BY	DISCONNECT BY	DISC. SWITCH	FUSE SIZE	PANEL	CIRCUIT NUMBER
ERU-1(E)	EXISTING ENERGY RECOVERY	120/1	8.6	15	--	--	EXISTING TO REMAIN	--	EXISTING TO REMAIN	15A, 1P	15A	D	1
FCU-1(E)	EXISTING AIR HANDLING UNIT	208/3	7	15	--	--	EXISTING TO REMAIN	--	EXISTING TO REMAIN	15A, 3P	15A	D	2, 4, 6
FCU-2	AIR HANDLING UNIT	208/1	53	60	--	--	(3) #6, (1)#10 GND, IN 1" C	--	BY E.C.	60A, 1P	60A	D	8, 10
CU-1(E)	EXISTING HEAT PUMP	208/3	35	50	--	--	EXISTING TO REMAIN	--	EXISTING TO REMAIN	50A, 3P	50A	D	3, 5, 7
CU-2	EXISTING HEAT PUMP	208/1	17	25	--	--	(3) #10, (1)#10 GND, IN 3/4" C	--	BY E.C.	25A, 1P	25A	D	9, 11
EF-1	EXHAUST FAN	120/1	--	--	--	0.1	(2) #12, (1)#12 GND, IN 3/4" C	--	BY E.C.	20A, 1P	20A	C	7
EW1-1	ELECTRIC WATER HEATER	208/1	--	--	--	3.0	(3) #12, (1)#12 GND, IN 3/4" C	--	BY E.C.	20A/2P	20A	C	26,28
F-2 (E)	FAN	120/1	-	-	--	--	EXISTING TO REMAIN	--	EXISTING TO REMAIN	20A, 1P	20A	D	12
F-3 (E)	FAN	120/1	-	-	--	--	EXISTING TO REMAIN	--	EXISTING TO REMAIN	20A, 1P	20A	D	14



ELECTRICAL POWER PLAN
1/4" = 1' - 0"

A SEPARATE ELECTRICAL
PERMIT IS REQUIRED
ELECTRICAL PLAN
REVIEW REQUIRED



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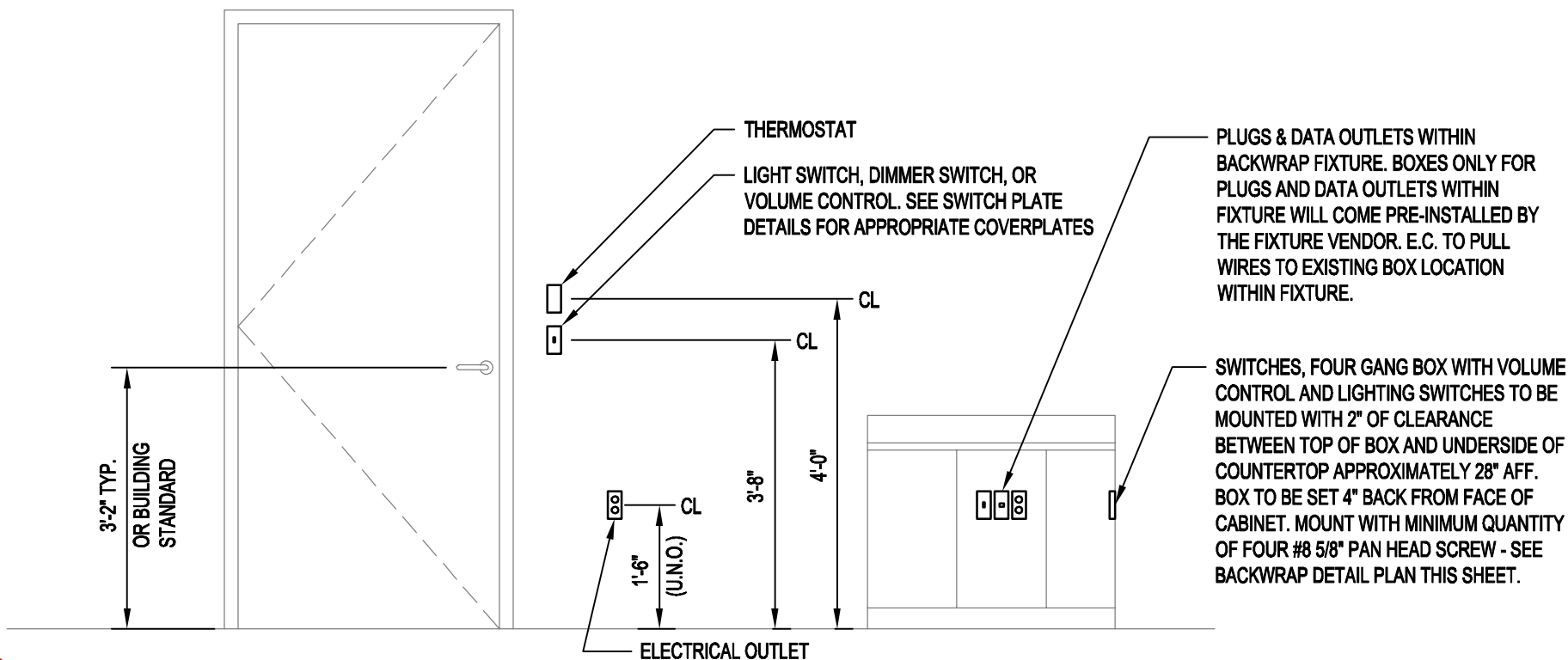
NO.	DATE	DESCRIPTION

ELECTRICAL
DETAILS

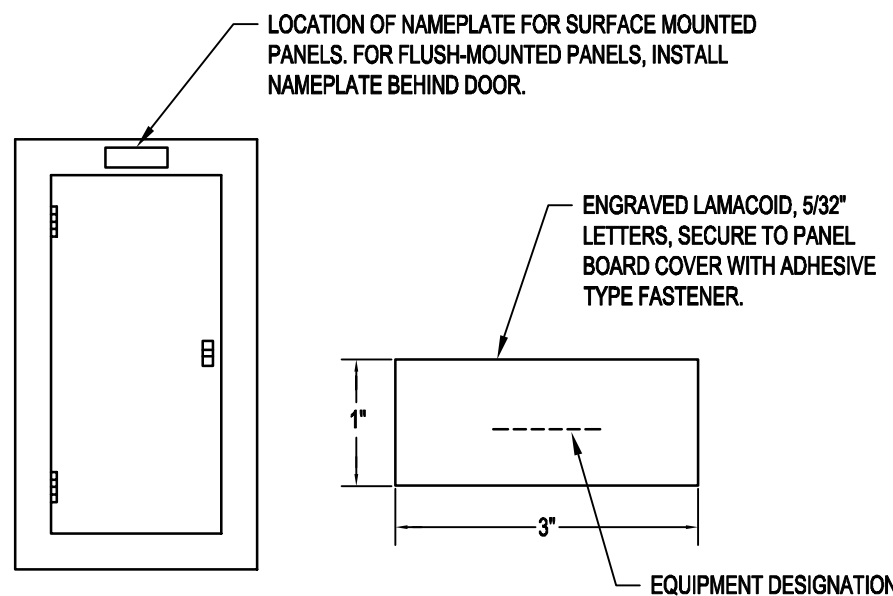
E3

GRAPHIC SCALE:

- ONE-LINE DIAGRAM NOTES**
- THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL POWER COMPANY REQUIREMENTS PRIOR TO BIDDING & INCLUDE THE COST OF ALL ASSOCIATED LABOR, MATERIALS, & CHARGES IN HIS BID.
 - THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE UTILITY COMPANY PRIOR TO BIDDING AND PROVIDE EQUIPMENT RATED ACCORDINGLY. SUBMIT FAULT CURRENT CALCULATIONS WITH SHOP DRAWING SUBMITTAL.
 - ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE.
 - ALL WALL-MOUNTED EQUIPMENT SHALL BE MOUNTED ON 3/4" FIRE RATED BACKBOARD.
 - PROVIDE NAMEPLATES PER NAMEPLATE DETAIL.
 - COORDINATE SPACE WITH ALL OTHER TRADES TO MAINTAIN ALL CODE-REQUIRED CLEARANCES.
 - REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - THE ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL SETTINGS REQUIRED FOR ALL ADJUSTABLE/ELECTRONIC TYPE CIRCUIT BREAKERS WITH LONGTIME, SHORT TIME, GF, INSTANTANEOUS, ETC. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL COORDINATION STUDY.
 - THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH NEC ARTICLE 110.16 FOR LABELING OF PANELS FOR ARC FLASH HAZARD WARNING AS WELL AS FOLLOWING REQUIRED SAFETY PRECAUTIONS WHEN SERVING OR MAINTAINING ELECTRICAL EQUIPMENT.
 - HVAC CIRCUIT BREAKERS TO BE "HACR" TYPE WHERE REQUIRED BY EQUIPMENT NAMEPLATE PER N.E.C.
 - ELECTRICAL CONTRACTOR SHALL BALANCE PANELS AND ELECTRICAL EQUIPMENT TO ±10% BETWEEN PHASES: A/B, B/C, A/C REGARDLESS OF CIRCUITING INDICATED.
 - PROPER CLEARANCE MUST BE MAINTAINED ABOUT ELECTRICAL EQUIPMENT PER N.E.C. FIELD VERIFY EXACT MOUNTING SPACE AVAILABLE IN ELECTRICAL ROOM / AREA PRIOR TO INSTALLATION OF ELECTRICAL EQUIPMENT.
 - ELECTRICAL CONTRACTOR SHALL MAKE FINAL ELECTRICAL CONNECTIONS FOR A COMPLETE ELECTRICAL DISTRIBUTION SYSTEM.
 - GROUNDING ELECTRODE SYSTEM CONDUCTORS SHALL BE COPPER.
 - CONDUCTORS SHALL BE COPPER, UNLESS NOTED OTHERWISE.
 - FEEDER ROUTING IS DIAGMATIC ONLY. ACTUAL ROUTING OF FEEDERS (OVERHEAD OR UNDERGROUND) IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.



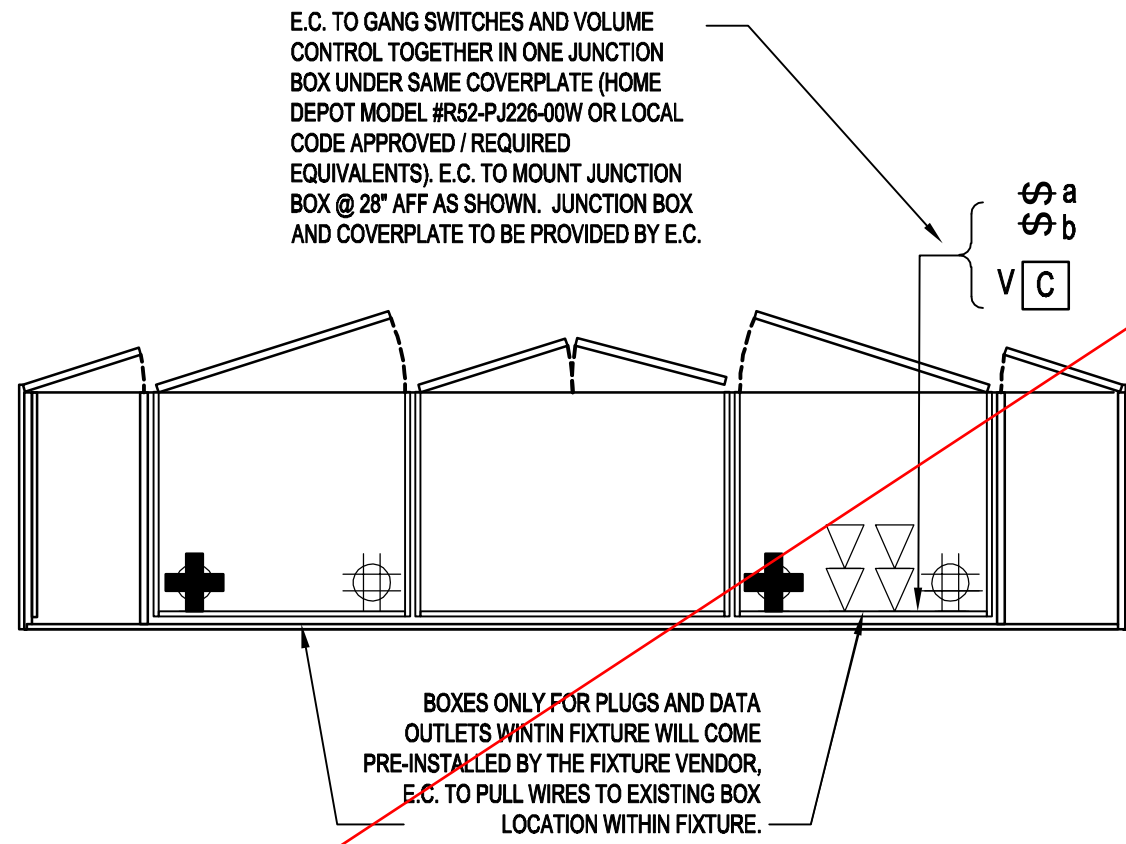
TYPICAL DEVICE MOUNTING HEIGHTS
N.T.S.



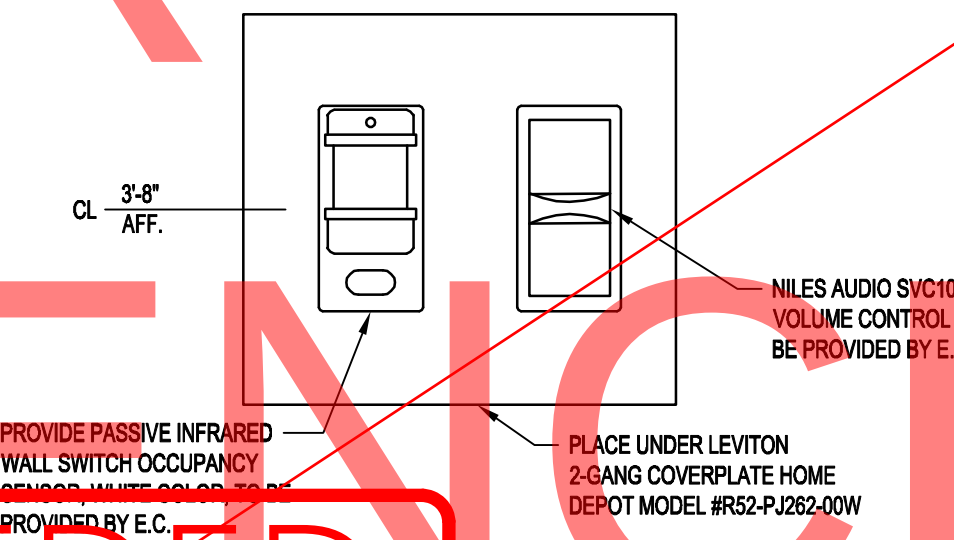
NOTE:
NAMEPLATES ARE REQUIRED ON ALL SWITCHBOARDS, DISTRIBUTION PANELS, PANEL BOARDS, STARTERS, DISCONNECT SWITCHES, RELAYS AND JUNCTION BOXES GREATER THAN 4 11/16" SQUARE. ALSO PROVIDE NAMEPLATES ON BRANCH SWITCHES OF SWITCHBOARDS AND DISTRIBUTION PANELS.

- STANDARD COLORS:
- NORMAL POWER - BLACK BACKGROUND, WHITE LETTERS
 - EMERGENCY POWER - RED BACKGROUND, WHITE LETTERING
 - IN ADDITION TO THE FUNCTION NAMEPLATE, PROVIDE NAMEPLATES IDENTIFYING ALL "MAIN SERVICE NAMEPLATE DISCONNECTS" - RED BACKGROUND - WHITE LETTERING
 - E.C. TO LABEL EVERY OUTLET WITH ITS APPROPRIATE CIRCUIT NUMBER. E.C. TO USE A LABEL PRINTER.

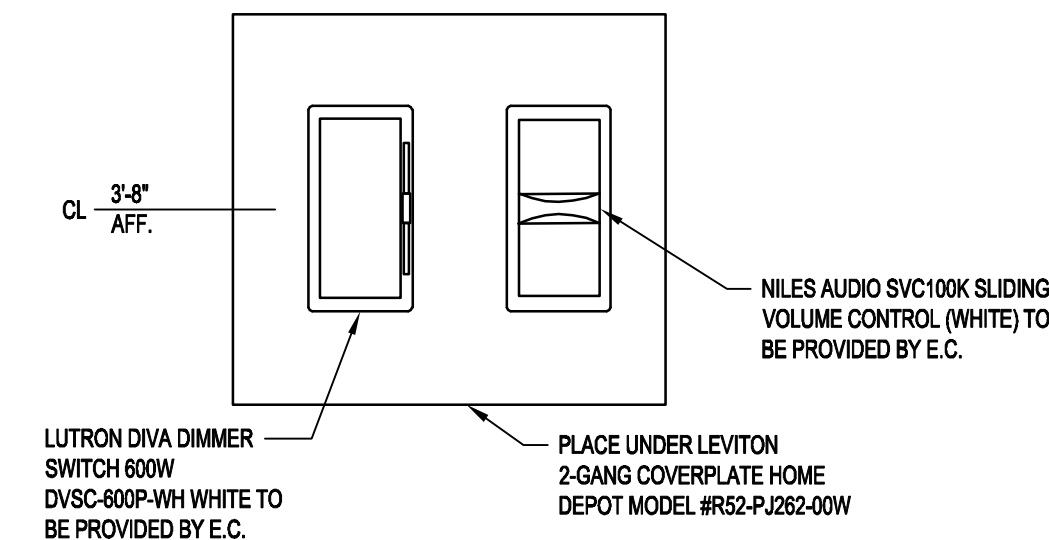
NAMEPLATE DETAIL
N.T.S.



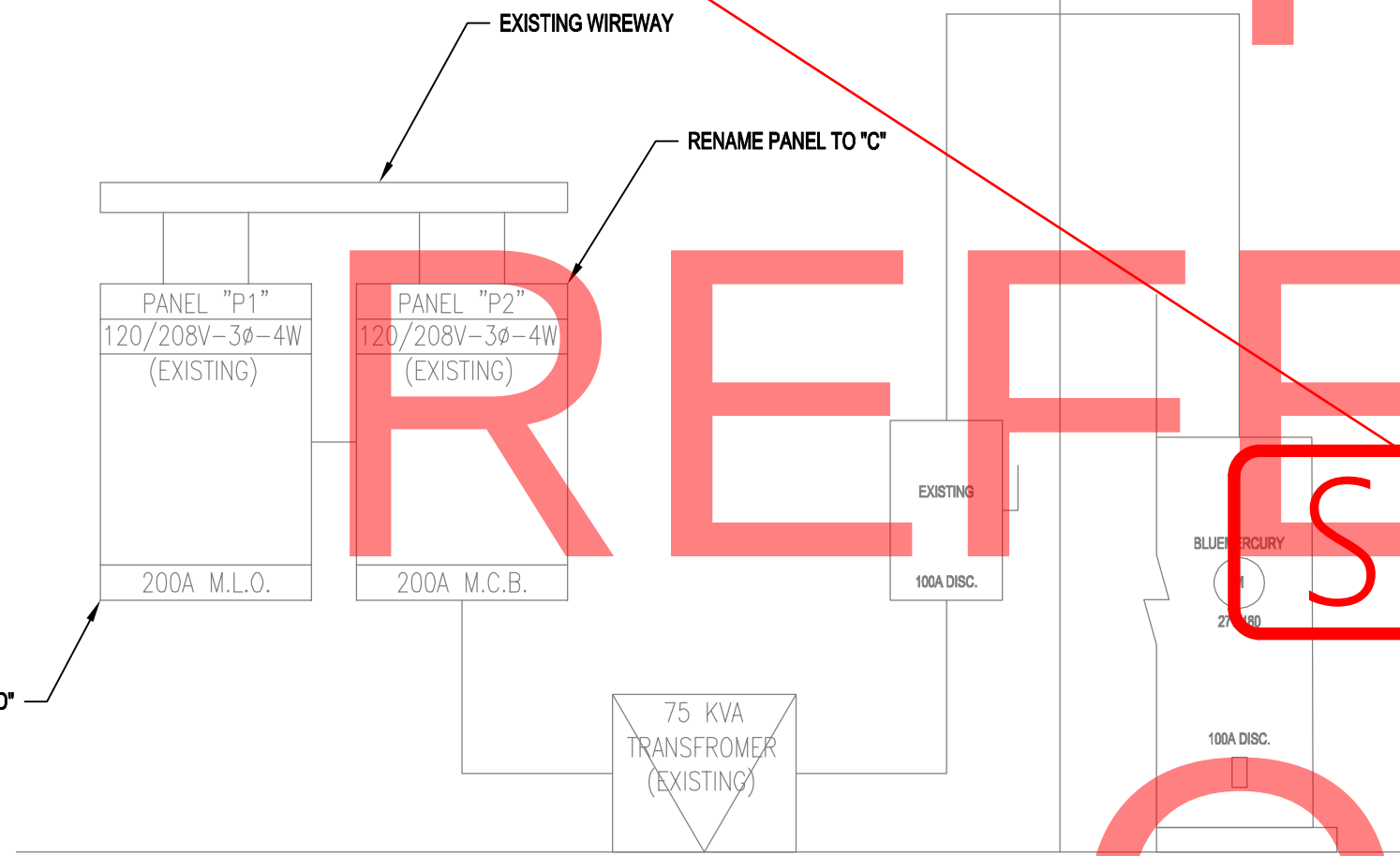
BACKWRAP DETAIL PLAN
N.T.S.



SWITCHPLATE DETAIL - TOILET ROOM
N.T.S.

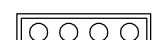
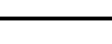


WAITING AREA/ ROOM SWITCH PLATE DETAIL
N.T.S.



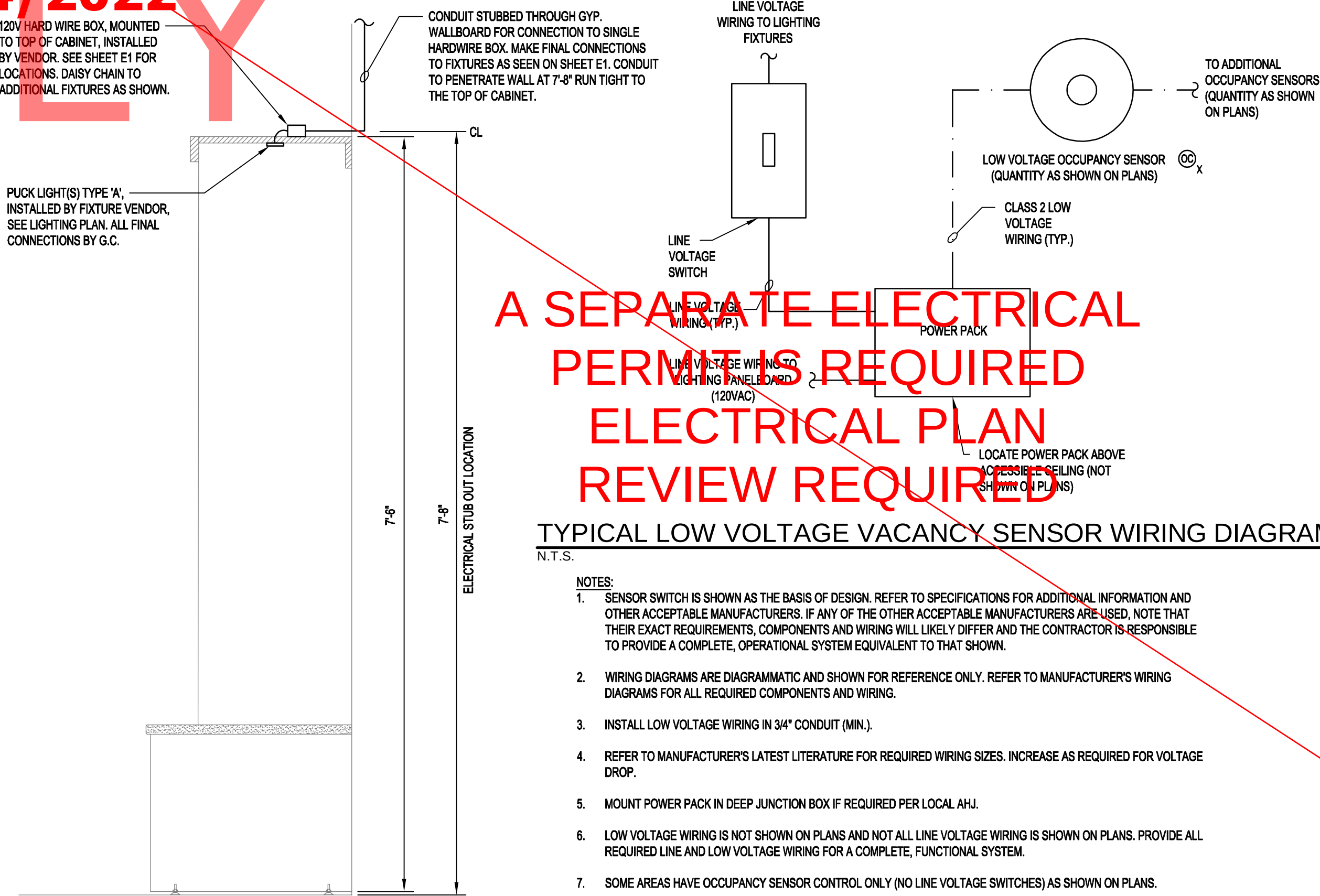
ELECTRICAL ONE-LINE DIAGRAM
N.T.S.

PAGE REVISED
10/24/2022

LIGHTING FIXTURE SCHEDULE										
ALL LIGHTS ARE FURNISHED BY OWNER AND INSTALLED BY GC										
SYMBOL	TYPE	MANUFACTURER	PRODUCT NUMBER	FINISH	DESCRIPTION	LAMPING	MTG. METHOD	MTG. HEIGHT	VOLTS	COMMENTS
T#	TRACK	LIDO LIGHTING	CLASSIC SINGLE CIRCUIT	WHITE	SURFACE MOUNTED TRACK	---	SURFACE	CEILING HEIGHT	120	# = TRACK LENGTH, REFER TO ELECTRICAL DWGS. FOR TRACK LENGTHS; SURFACE MOUNTED; 1 CIRCUIT TRACK
	A	TESCO LIGHTING POCKIT T2 LED	L-LPOC-4W-120NL-WNI-1	NICKEL	ACCENT	T2 LED, LINKABLE, 4W, 2700K	SURFACE	INSTALLED IN FIXTURE BY FIXTURE VENDOR	120	LIGHT FIXTURE AND HARDWARE BOX (L-HWB-WH-T5-1-WHITE) TO BE PROVIDED BY FIXTURE VENDOR
	B2	LIDO LIGHTING	2LT #AANT-2-14LED-WH	WHITE	RECESSED	(2) PAR 30 LED, 25W	RECESSED	CEILING HEIGHT	120	DRYWALL TRIM RING TO BE MUDDED IN
	B4	LIDO LIGHTING	4LT #AANT-4-14LED-WH	WHITE	RECESSED	(4) PAR 30 LED, 50W	RECESSED	CEILING HEIGHT	120	DRYWALL TRIM RING TO BE MUDDED IN
	C	LIDO LIGHTING	#AANT-10W-MICRO-WHITE-TRK HD	WHITE	ACCENT TRACK HEAD	INTEGRATED LED 10W MICRO TRACK HEAD	TRACK	TRACK HEIGHT	120	TRACK MOUNTED LED LAMP ADJUSTABLE ACCENT FIXTURE; ELECTRONIC BALLAST
	C3	LIDO LIGHTING	#AANT-6610-WH	WHITE	ACCENT TRACK HEAD	INTEGRATED LED 12W MICRO TRACK HEAD	TRACK	TRACK HEIGHT	120	TRACK MOUNTED LED LAMP ADJUSTABLE ACCENT FIXTURE; ELECTRONIC BALLAST
	D1	JUNO	T256LED-3K-WH	WHITE	WALL WASH / FLOOD	35W LED	TRACK	CEILING HEIGHT	120	FOR WINDOW GRAPHIC ILLUMINATION
	EX1	ENCORE	UNO6WH	WHITE	EDGE-LIT EXIT LIGHT	INCLUDED	CEILING MOUNT	---	120	SALES AREA EXIT LIGHT; EDGE LIT, USE PROVIDED 2" x 14" J-BOX FOR RECESSED MOUNT
	EX2	JUNO - NAVILITE	NXPB3RWH	WHITE	EXIT LIGHT	INCLUDED	WALL MTD 6" ABOVE DR FRAME	---	120	NON-SALES AREA EXIT LIGHT, SURFACE MOUNTED, BATTERY BACK-UP
	F - 37"	ARTERIORS	HANLEY LARGE CHANDELIER #89013	GLASS/ POLISHED NICKEL	CHANDELIER	INCLUDED, 40W x 8	PENDANT INSTALLED WITH (3) 1" RODS	COVE HEIGHT	120	---
	G	METALUX	SNLED-4000L-830	WHITE	STRIP LIGHT	(1) 4' STRIP LED, 23W	PENDANT	12'-0" A.F.F.	120	---
	K	LIDO LIGHTING	SW3528-240-10-REEL	WHITE	COVE LIGHT	5W / FOOT, 3000K, 80CRI	SURFACE	COVE HEIGHT	120	CUT LED STRIP LIGHTING IN FIELD
	W2	LITHONIA LIGHTING	ELMLT	WHITE	EMERGENCY LIGHT	LP06VS	WALL / SURFACE	12'-0" STOCK AND CLG. HEIGHT / TIGHT TO CLG.	120	BATTERY BACK-UP

LIGHTING FIXTURE SCHEDULE NOTES:

- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND/OR ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LIGHT FIXTURE REQUIRED FOR THE CEILING CONSTRUCTION PRIOR TO ORDERING THE FIXTURES & PROVIDE FIXTURES THAT ARE COMPATIBLE WITH THE CEILING SYSTEM.
- ALL BALLASTS FOR LINEAR AND COMPACT FLUORESCENT LAMPS SHALL BE INSTANT START WITH LESS THAN 10% THD. ALL SUCH BALLASTS FOR EXTERIOR FIXTURES SHALL BE COLD WEATHER BALLASTS RATED FOR 0°F OR LOWER. SEE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL LIGHTING FIXTURES UTILIZING DOUBLE ENDED FLUORESCENT LAMPS SHALL BE PROVIDED WITH AN INTEGRAL DISCONNECTING MEANS INSTALLED BY THE FIXTURE MANUFACTURER. FOR SAID FIXTURES WHERE AN INTEGRAL DISCONNECTING MEANS IS NOT AVAILABLE BY THE MANUFACTURER, THE E.C. SHALL FURNISH AND INSTALL A LOCAL EXTERNAL DISCONNECTING MEANS AS REQUIRED PER NEC 410.
- ALL MR16 LAMPS SHALL BE 10,000 HOUR LAMPS.
- WHERE LIGHT FIXTURES ARE NOTED TO HAVE EMERGENCY BALLASTS THE EMERGENCY BALLASTS SHALL PROVIDE A MINIMUM OF NINETY (90) MINUTES OF CODE REQUIRED EMERGENCY LIGHTING. EACH EMERGENCY BALLAST PROVIDED SHALL PRODUCE THE MAXIMUM LUMEN OUTPUT AVAILABLE FOR THE LAMP USED. EMERGENCY LIGHTING BALLASTS SHALL BE BODINE OR APPROVED EQUAL.
- ALL LIGHT FIXTURES TO BE PROVIDED BY LIGHTING VENDOR UNLESS OTHERWISE NOTED.



TYPICAL LOW VOLTAGE VACANCY SENSOR WIRING DIAGRAM
N.T.S.

- NOTES:
- SENSOR SWITCH IS SHOWN AS THE BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND OTHER ACCEPTABLE MANUFACTURERS. IF ANY OF THE OTHER ACCEPTABLE MANUFACTURERS ARE USED, NOTE THAT THEIR EXACT REQUIREMENTS, COMPONENTS AND WIRING WILL LIKELY DIFFER AND THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A COMPLETE, OPERATIONAL SYSTEM EQUIVALENT TO THAT SHOWN.
 - WIRING DIAGRAMS ARE DIAGMATIC AND SHOWN FOR REFERENCE ONLY. REFER TO MANUFACTURER'S WIRING DIAGRAMS FOR ALL REQUIRED COMPONENTS AND WIRING.
 - INSTALL LOW VOLTAGE WIRING IN 3/4" CONDUIT (MIN.).
 - REFER TO MANUFACTURER'S LATEST LITERATURE FOR REQUIRED WIRING SIZES. INCREASE AS REQUIRED FOR VOLTAGE DROP.
 - MOUNT POWER PACK IN DEEP JUNCTION BOX IF REQUIRED PER LOCAL AHJ.
 - LOW VOLTAGE WIRING IS NOT SHOWN ON PLANS AND NOT ALL LINE VOLTAGE WIRING IS SHOWN ON PLANS. PROVIDE ALL REQUIRED LINE AND LOW VOLTAGE WIRING FOR A COMPLETE, FUNCTIONAL SYSTEM.
 - SOME AREAS HAVE OCCUPANCY SENSOR CONTROL ONLY (NO LINE VOLTAGE SWITCHES) AS SHOWN ON PLANS.



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NO.	DATE	DESCRIPTION
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DATE:	07/18/2022
DRAWN BY:	TBA
PROJECT NO.:	22129
FILE NAME:	2022-0809 E-4.dwg

AUDIO, VIDEO DATA,
FIRE ALARM, &
SECURITY SYSTEMS

E4

GRAPHIC SCALE:

E.C. Scope of Work

PLEASE MAKE SURE ALL CABLES ARE LABELED AND ARE PLENTY LONG ON BOTH SIDES.

Alarm Wire:

Each device must get home run to alarm panel—plenum rated if required by code. Alarm panel is normally located on the ply board in the back room.

- Motion = 18/4
- Door contacts = 18/4 this is for each contact. If there are two A doors in front then it will require two cables
- Keypad = 18/4
- Siren = 18/4

CCTV Wire:

- CAT6 cable plenum if needed for code all home run from each device to back closet where dvr goes

Music:

- Wire = 18/4
- See diagram attached as for cable type and how they get connected
- Sales floor speakers get daisy chained to volume controller in front then from there to amp in closet in back waiting room speaker to volume control there to amp
- Spa speaker to volume controller to amp
- Restroom speaker to volume controller there if it exists to amp
- Only the volume controllers go to the home run the speakers will only go to the volume controllers.
- Volume Controls are by E.C.

Data / Phone Wires:

- All wires = Cat 6E—plenum rated if required by code
- 2 wires from demark to 66 block
- 8 wires at the back wrap (4 on the left 4 on the right)
- 6 wires at the cash wrap island (3 on the left 3 on the right)
- Everything is home run the equipment wall
- PLEASE MAKE SURE CABLES ARE LABELED AND LONG ENOUGH.

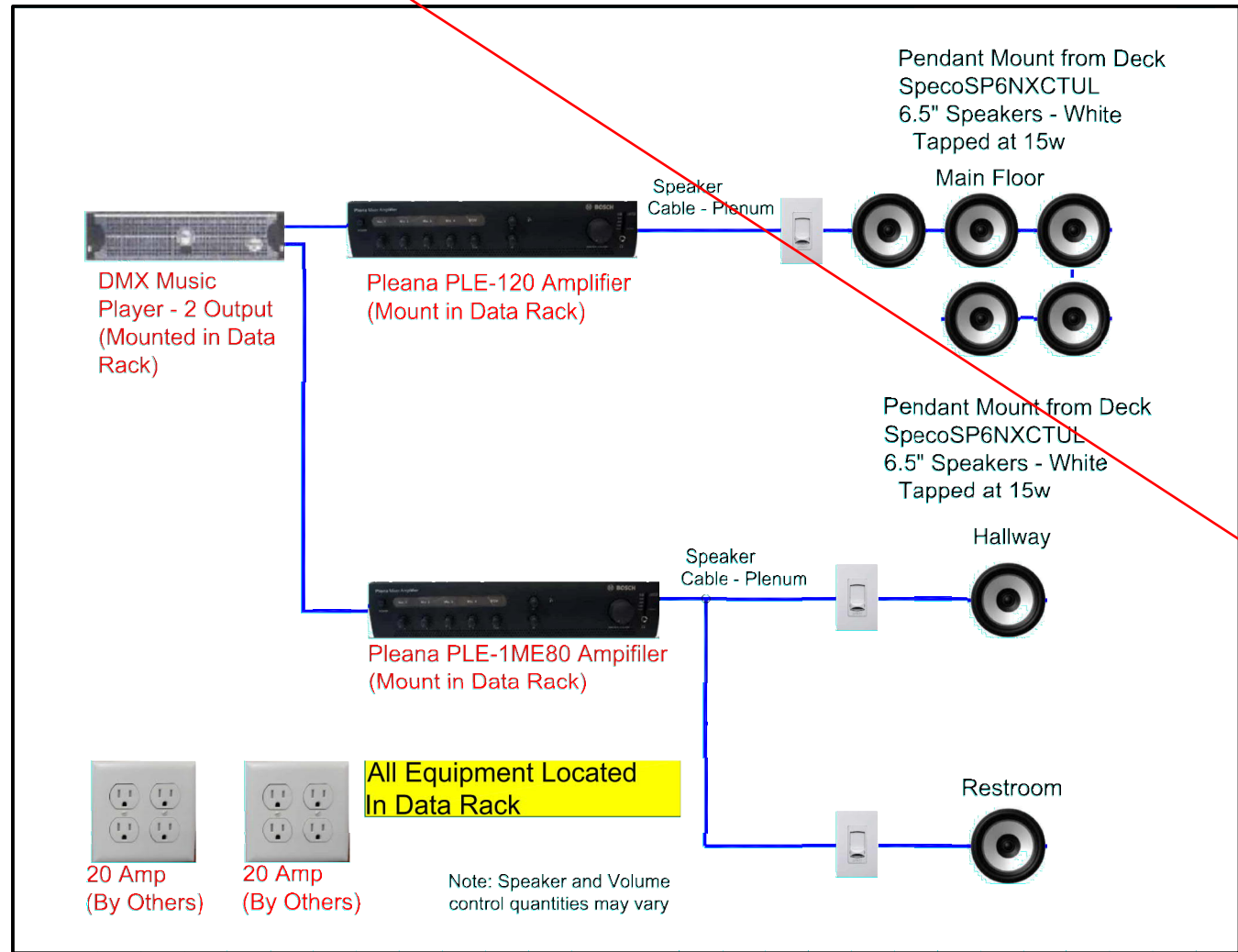
BM has also added a phone in front next to the alarm keypad and 3 wireless devices. They all get a cat 6 cable and go homerun to the equipment wall. There is not an exact place to put the wireless devices they just want one in the front, middle, and back of the store on the ceiling.

SYSTEM SPECIFICATIONS

N.T.S.

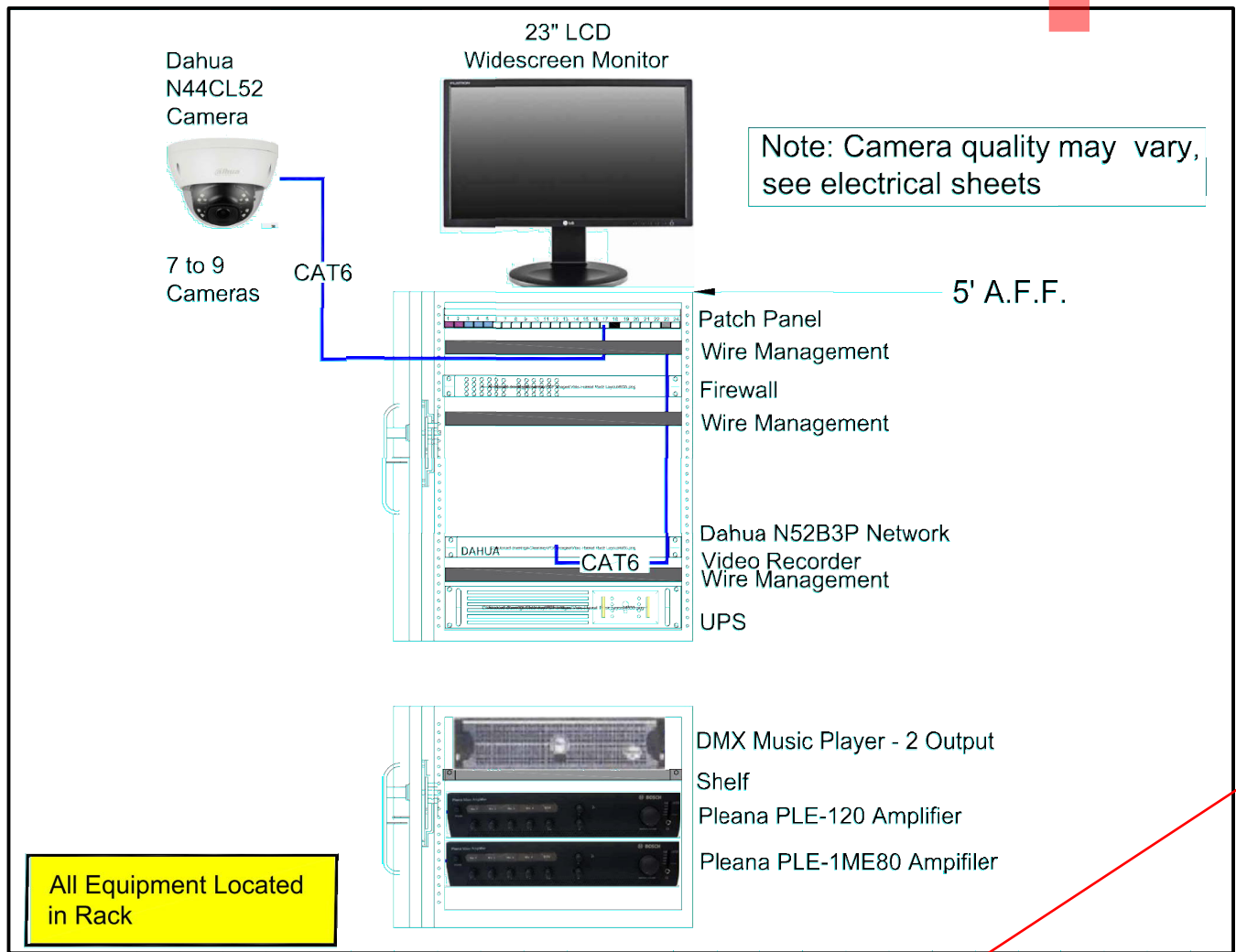
CCTV / SECURITY SYSTEM NOTES:

1. E.C. TO PROVIDE ALL REQUIRED WIRING / CONDUIT / JUNCTION BOXES, ETC. FOR ALL SECURITY SYSTEM AND CCTV DEVICES. VENDOR TO FURNISH ALL SECURITY SYSTEM AND CCTV DEVICES AND COMPLETE FINAL CONNECTION.



SOUND SYSTEM LINE DIAGRAM

N.T.S.



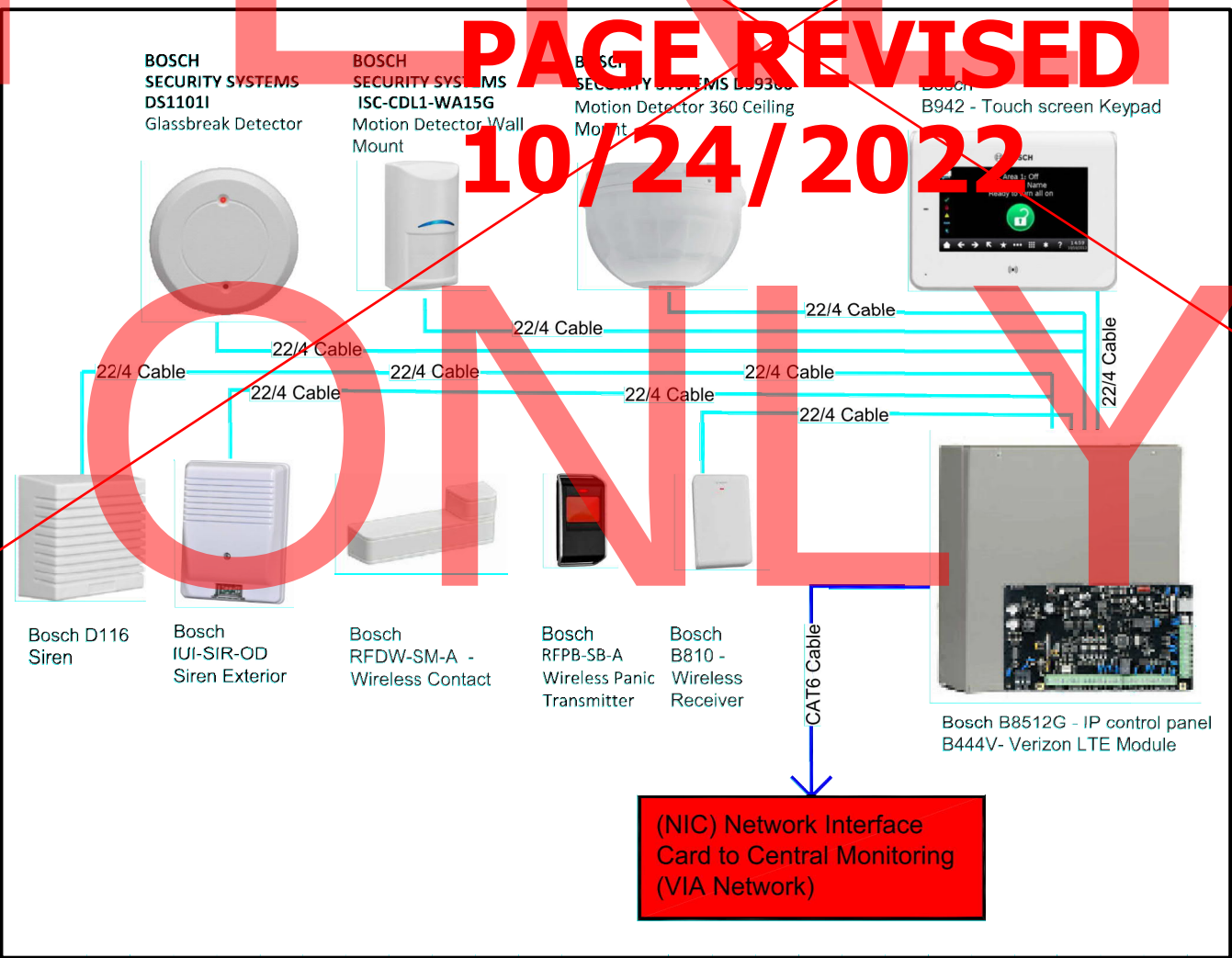
DATA RACK DIAGRAM

N.T.S.



CCTV SYSTEM LINE DIAGRAM

N.T.S.



SECURITY SYSTEM LINE DIAGRAM

N.T.S.

A SEPARATE ELECTRICAL
PERMIT IS REQUIRED
ELECTRICAL PLAN
REVIEW REQUIRED

SEPARATE PERMIT
REQUIRED FOR FIRE
ALARMS

ELECTRICAL SPECIFICATIONS

Section 260010 - General Provisions

- A. General
- Requirements specified in Division 1, instructions to bidders, supplemental general conditions, special conditions, addenda, alternates, contract and proposal, along with Division 26, 27, 28 and all its sections, comprise the contract documents for the electrical contract, along with these specifications as though they were one, and anything implied by the specifications shall be interpreted as also implied by the drawings and vice versa. Provide necessary items for a complete installation of all electrically operated equipment listed in the specifications or shown on the contract drawings.
 - The architectural, structural, mechanical, plumbing and equipment drawings and specifications are incorporated into, and become a part of this division. This contractor shall examine all such drawings and specifications and become thoroughly familiar with the provisions contained therein. The submission of his bid shall indicate such knowledge.
 - Electrical drawings are diagrammatic. They are intended to show the approximate locations of equipment and conduit. Dimensions given on the plans, in figures, shall take precedence over scaled dimensions and shall be verified in the field. The electrical contractor shall layout all equipment rooms to make sure the equipment, as purchased, fits in the room or space shown. Exact location of all equipment shall be verified in the field and routing of conduits shall suit field conditions.
 - Until the time of installation, the architect reserves the right to make minor changes in the location of conduit and equipment without additional cost to the contract.
 - The electrical drawings and specifications are intended to supplement each other. Material and labor necessary to the project shall be furnished and installed even though not specifically mentioned in both. Labor and/or materials neither shown nor specified, but obviously necessary to the completion and proper functioning of the system, shall be furnished and installed by the electrical contractor.
 - Arrange all equipment substantially as shown on the drawings. Make deviations only where necessary to avoid interference. Check all equipment sizes against available space prior to shipment to avoid interference.
 - Examine the work of other trades insofar as their work comes in contact with or is covered by this work in no case attach to, or finish against any defective work or install work in a manner which will prevent proper installation of the work of other trades.
 - Electrical contractor shall verify with other trades all electrical characteristics of equipment requiring electrical connections, contractor shall verify voltage, phase and horsepower and shall notify engineer of any discrepancies prior to start of work. Electrical contractor shall provide disconnecting means and overload protection for all equipment, unless furnished integral with equipment package.
 - It is the intent of these drawings that this be a complete electrical job, any errors or omissions shall be brought to the attention of the engineer prior to bidding the job.
 - Should any of the general notes, specifications, details or instructions on plans conflict, the strictest provision shall govern.
 - Existing building systems shown on these drawings which are to be removed or modified where taken from the landlord drawings dated 2014-12-29 and may not show current installations or conditions, each contractor shall field verify all existing systems.
 - Do NOT scale drawings.
 - The contractor shall make provisions for the delivery and safe storage of his/her materials and equipment in coordination with the work of other trades. Materials and equipment shall be delivered at such stages of the work as will expedite the work as a whole and shall be marked and stored in such a way as to be easily checked and inspected. The arrival and placing of large equipment items shall be scheduled early enough to permit entry and setting when there is no restriction or problem due to size and weight. Protection of all finishes during delivery is the responsibility of the contractor.
- B. Visit to the Site
- This contractor shall visit the site of the work and familiarize himself with all conditions affecting his work. The submission of his proposal shall indicate such knowledge. No additional payment shall be made on claims that arise from a lack of knowledge of the existing conditions
- C. Code and Permits
- Installation shall be in full accordance with all codes, rules and regulations of municipal, city, county, state and public utilities and all other authorities having jurisdiction over the premises.
 - Comply with any specification requirements that are in excess but not in conflict with code requirements.
 - The contractor shall secure and pay for all permits, plan reviews and certificates of inspection in connection with his work, required by the foregoing authorities. Before final payment of the contract is allowed, all certificates shall be delivered to the architect in duplicate.
 - Electrical material and equipment shall bear the UL label except where UL does not label such types of material and equipment.
- D. Shop Drawings Submittals
- The electrical contractor shall submit product data and shop drawings. Each submittal shall be identified using the respective specification numbering system and titles. Each submittal shall clearly identify which products and options are applicable. The submittals shall be submitted through the architect to the engineer and then, if necessary, resubmitted for final approval. Submittals shall be submitted for the following items:
 - Wiring devices
 - Switchboards, Panelboards, transformers and safety switches including fault current study based on equipment being supplied.
 - Floor Boxes
 - Lighting control system and devices
 - Lighting fixtures
 - Fire alarm system
 - Electronic Submittals: Prepare submittals as PDF package, incorporating complete information into each PDF file. Name PDF file with submittal number.
 - Each submittal shall be provided with a cover identifying the following:
 - Name of the job
 - Location of the job, address, city and state.
 - Name and address of the company issuing the submittal.
 - Date of the submittal
 - All submitted product data and shop drawings (manufacturers' equipment descriptive sheets or vendors' prepared drawings) shall have the general contractor's or subcontractor's "stamp of approval" indicating that the item submitted is as called for on the plans and specifications, is approved by the general contractor or subcontractor, the date of approval and initiated by the person approving the submittal and the name of the company submitting said equipment for approval.
 - Any submittal not as specified shall be returned without review for corrections and re-submittal.
 - Every effort shall be made, in checking the shop drawings, to detect and correct all errors, omissions and inaccuracies. Failure to do this will not relieve the electrical contractor of the responsibility for the proper and complete installation in accordance with the contract documents.
- E. As-built Drawings
- Submit three paper-copy set(s) of marked-up record prints to the architect. Contractor shall use red ink for all contractor mark-ups on record prints.
 - Submit PDF electronic files of scanned record prints. Scanned record prints shall be in color.
 - Print and scan each drawing, whether or not changes and additional information were recorded.
- F. Standards and Substitutions
- Whenever the words "approved by", "approved equal", "as directed" or similar phrases are used in the following specifications, they shall be understood to refer to the owner as the approving agency. The name or make of any equipment or materials named in this specifications (whether or not the words "or approved equal" are used) shall be known as the "standard".
 - These specifications establish quality standard of materials and equipment to be provided. Specific items are identified by manufacturer, trade name or catalog designation. This contractor shall submit his base bid price based upon standard specified equipment described herein and as detailed on drawings and associated contract documents. These specifications are not to be considered proprietary. The contractor may submit information on materials and manufacturers (other than those listed) for review by the architect and engineer no later than ten (10) days before bids are submitted. Manufacturers of products accepted by the architect and engineer will be listed in an addendum to the specifications as an acceptable substitution equipment accepted as details below and shall be shown as a separate add or deduct price to be factored into the base bid price by the architect and owner if accepted.
 - Should the contractor propose to furnish materials and equipment other than those specified or approved by addendum, submit a written request for substitutions to the architect at the bid opening. The request shall be an alternate to the original bid, be accompanied with complete descriptive (manufacturer, brand name, catalog number, etc.) and technical data for all items. Failure by this contractor to submit the requisite documentation detailed above shall be understood by the architect and engineer to indicate that substitute equipment will not be presented by the contractor for consideration. Such substitutions will not be considered after the bid opening date and delay of project will not be permitted for further inspection and evaluation after this date.
 - Where such substitutions alter the design or space requirements indicated on the drawings, include all items of cost for the revised design and construction including cost of all allied trades involved.
 - Acceptance or rejection of the proposed substitutions shall be subject to approval of the architect and engineer. If requested, the contractor shall submit (at his cost) inspection samples of both the specified and proposed substitute items.
 - In all cases where substitutions are permitted, the contractor shall bear any extra cost of evaluating the quality of the material and equipment to be provided.

- G. Testing and Placing in Service
- Any material or equipment failing a test shall be repaired or replaced at the contractor's expense.
 - Tests shall include the following:
 - Measure the no-load on each phase of the main service and each phase of every feeder under full load conditions.
 - Measure the no-load and full-load voltages (phase to phase, phase to neutral and phase to ground for each phase of each service, of each separately derived system, and at each panelboard or transformer).
 - Measure the ground resistance of the main service grounding electrode and the ground resistance of each separately derived system's grounding electrode.
 - Make insulation resistance tests on all dry type transformers and motors.
 - Provide performance testing as required per N.E.C. or local authority having jurisdiction.
- H. Interferences
- Before the installation of any item begins, the electrical contractor shall carefully ascertain that it does not interfere with clearances for the erection of finish beams, columns, pilasters, walls or other structural or architectural members as shown on the architectural drawings. If any work is installed and the architectural design cannot be followed, this contractor shall, at his own expense, make changes in his work as directed by the architect to permit the completion of the architectural work in accordance with drawings and specifications.
 - It shall be the duty of this contractor to report any interferences between his work and that of any of the other contractors as soon as they are discovered. The architect shall determine which equipment will be relocated, regardless of which was installed first. His decision will be final.
- I. Quality Assurance
- All products shall be new and of the type and quality specified. Where materials, equipment, apparatus or other products are specified by manufacturer, brand name, type of catalog number, such designation shall establish the standards of the desired quality and style. It is the intent of these specifications to establish a standard of quality of materials and equipment installed.
- J. Special Inspections
- Special inspection (as applicable) is to be provided in addition to inspections conducted by the department of building safety and shall not be construed to relieve the owner or his/her authorized agent from requesting periodic and called inspections required by the building code. Special inspection shall be paid by the owner.
 - Special Inspector shall meet the qualifications as stated in the applicable building code and shall perform the duties and responsibilities as outlined in the applicable building code.
 - The electrical contractor shall provide access to areas requiring testing or inspections, and provide requested documentation (if required by the Special Inspector).

Section 260050 - Basic Electrical Materials and Methods

- A. Nameplates
- General: furnish and mount on each panelboard, switchboard (including branch devices), large junction box, safety switch, starter, remote control, push button station, and all similar controls, a nameplate descriptive of the equipment or equipment controlled.
 - Provide black and white nameplates constructed from laminated phenolic with a white center core. Letters shall be engraved in the phenolic to form white letters 3/8" high. Fasten the nameplates with an adhesive type fastener.
- B. Mounting Accessories
- The contractor shall furnish and install all angle iron, channel iron, rods, supports, hangers, concrete or plywood required to install, mount and support any electrical equipment or device called for on the plans.
 - Supporting material shall be complete with hangers, connectors, bolts, clamps and necessary accessories to make a complete installation. Supporting material shall be galvanized, painted or otherwise suitably finished. Products by Binkley, Steel City, or Raco will be acceptable.
 - All surface-mounted equipment on block walls shall be mounted on 3/4" plywood. All floor-mounted equipment shall be installed on a 4" high concrete housekeeping pad.
- C. Execution
- The electrical work for construction proposed shall conform to all federal (OSHA), state, all specific safety requirements and the requirements of the current edition of the NEC.
 - Review the HVAC and plumbing specifications for electrical requirements and include the same in the contract cost.
 - Equipment connections, starters, disconnect switches, control transformers and pushbutton stations for the equipment furnished by the owner or under a separate contract shall be installed and connected under this division, as indicated on the contract drawings.
 - All cutting, patching, excavating, backfilling and concrete work related to this contract will be the responsibility of the electrical contractor. This contractor shall assume the responsibility of providing the sleeves, chases and openings necessary for the electrical installation and for their repair in an acceptable manner, as determined by the architect. All holes shall be core-drilled. Provide fire stopping materials, UL Listed for application, in all openings created through fire-rated walls, floors or ceilings. Contractor shall field verify slab on grade floor construction type prior to cutting. Under no circumstances shall the contractor cut a structural floor slab thicker than four (4") inches without prior written approval from Engineer of Record. Notify Engineer of Record of any slab thickness greater than four (4") inches prior to proceeding with any saw cutting.
 - This contractor shall be responsible for providing all required access panels necessary for his work coordinate with architect prior to installation.
- D. Materials and Workmanship
- All work shall be installed in a practical and workmanlike manner, by mechanics skilled in the several trades necessary.
 - All materials shall be new and free from defects and shall be the best of their several kinds unless specified or indicated on the drawings to the contrary.
 - During each phase and at the completion of the construction, this contractor shall remove all debris and excess materials caused by his work. He shall leave the area of operation broom clean.
 - All electrical equipment shall bear the underwriters laboratories label or ETL label.
 - This contractor shall guarantee his workmanship and material (lamps excepted) for a period of one year from the date of building opening and leave his work in perfect order at the completion. Should defects develop within the guarantee period, the contractor shall, on notice of the same, remedy the defects and have all damages to other work or furnishings caused by his repairs corrected at his expense to the condition before such damage.
- E. Scope of Work
- The electrical contractor shall provide all labor, material, storage, unpacking and placement to include but not be limited to, the following items:
 - Emergency lighting and power.
 - Complete electrical distribution system including, but not limited to, switchboards, distribution and appliance safety switches and feeders.
 - Complete branch circuit wiring system.
 - Complete power wiring for all air conditioning equipment, plumbing equipment, heat equipment, ventilating and exhaust equipment.
 - Complete lighting fixture installation, including all lamps.
 - Complete communications conduit system including but not limited to, back boxes, plates, j-boxes, cable trays, etc., as specified on the drawings and as required by the local service provider and/or owner.
 - Testing of all cables and circuit wiring after installation.
 - Exit light system.
 - Wiring devices, floor boxes, multi-outlet assemblies.
 - Lighting control system and devices
 - Grounding and Bonding of the electrical system.
 - Fire / Supervisory alarm system.
 - Communication service

Section 260519 - Wiring and Cable

- A. Color code conductors (except control and instrumentation conductors) as follows:

	208/120 System
Phase A	Black
Phase B	Red
Phase C	Blue
Neutral	White
Ground	Green

- #12 and #10 conductors shall have continuous insulation color, as listed above.
- Color code conductors larger than above, which do not have continuous insulation color by application of at least two laps of colored tape on each conductor at all points of access including junction boxes. Color tape shall be the equal of 3M products Scotch #35.
- Conductors shall be soft annealed copper insulated for 600 volts unless specifically indicated otherwise. Aluminum conductors are not allowed on this project.

- B. Insulation type shall be type THWN for wire sizes #8 AWG and larger and THHN or THWN for #10 AWG and smaller. THHN shall not be used in wet or damp locations.
- C. Flexible cord shall be heavy duty type so with an equipment ground conductor in addition to the current carrying conductors.
- D. Provide #12 conductors, unless otherwise indicated.
 - Control conductors shall be #14 minimum for NEC class I and #16 for NEC class II.
- E. Conductors #8 AWG and larger shall be stranded.
- F. Conductors #10 AWG and smaller shall be solid.
- G. Install wiring in conduit.
- H. Connect #10 and smaller wires with constant pressure expandable spring type connectors, "Scotchlok" by 3M or B-Cap by Buchanan.
- I. Connect #8 and larger wires with compression connectors or splices as manufactured by Bundy or T&B.
- J. Insulate splicing connectors to at least 200% of the wire insulation. Use pre-stretched tubing connector insulators, 3M PST for #2 and larger conductors.
- K. Pull conductors using recognized methods and equipment leaving at least 6" wire at all junction boxes for connections.
 - Clean out each conduit system before pulling wire.
- L. Form and tie all wiring in panelboards.
- M. There shall be no wirenut joints or splices made inside switchboards/panelboards.
- N. Branch circuit wire sizes (and conduits) shall be increased from those indicated on the plans to prevent excessive voltage drop. Branch circuits shall be installed with wires of sufficient size so that voltage drop between the panel and the loads does not exceed limit of 3%.
- O. Regardless of the temperature rating of the conductor insulation, all conductor ampacity rating for this project shall be determined from the 75°C conductor temperature ratings indicated in the NEC tables. Where equipment or devices are provided with terminals rated for 60°C, the ampacity rating of the 75°C conductor shall be limited to its associated 60°C rating as indicated in the NEC tables. The electrical contractor shall be responsible to increase the conductors and conduit size as required.
- P. Circuits may be multi-plexed in conduit provided wire is properly derated and conduit sized per code. Under no circumstances shall more than six (6) current carrying conductors be run in a single conduit.

Section 260526 - Grounding and Bonding

- A. Ground all equipment per N.E.C.
- B. Ground each outside lighting pole separately with one ground rod and a #6 ground wire.
- C. Ground all dry type transformers as per drawings and NEC #450-10.
- D. All conduits shall contain a grounded ground wire size per N.E.C. in addition to the conductors shown on the plans. Where all four conductors are increased in size for any reason (i.e. voltage drop, derating, etc.), the ground wire size shall be increased proportionately according to circular mil area).
- E. Where isolated, insulated ground is required a separate insulated green ground shall be run from the equipment and secured back in the isolated ground conduit of the device.
- F. System grounds (green wire and associated outlet boxes, conduit and building steel) be allowed to contact the isolate ground (green wire with white stripe).
- G. All and Junction Boxes
- Install all junction boxes as indicated on the drawings, and where required for changes in the conductor function, size and/or terminate wire pulling. Furnish box sizes in accordance with NEC unless larger boxes are indicated.
 - Provide steel boxes and removable covers of code gauge, hot rolled sheet steel, hot dipped galvanized inside and outside, for above ground work. Furnish weatherproof boxes when installed above ground outside.
 - Provide cast iron boxes, hot dipped galvanized inside and outside where shown on the drawings. Furnish removable covers with gaskets and stainless steel, brass or bronze screws.
 - Provide concrete boxes for underground work unless otherwise indicated on the drawings. Furnish steel frames and covers with the cover attached to the frame with hexagon head, brass or bronze cap screws, 3/8" in diameter. Provide a rubber gasket for sealing between the cover and the frame. Paint the cover with two coats of heavy asphaltum.
- H. Outlet Boxes
- Use sheet steel boxes, zinc coated or cadmium plated, for concealed interior work.
 - Use cast boxes, zinc-cadmium finish malleable iron, for exposed interior work, and for exposed or concealed work in wet, damp or exterior locations. Cast boxes shall be series FD by Crouse Hinds or Appleton.
 - Wall box sizes (minimum) shall be 4" square X 2-1/2" deep where wall construction permits. Where wall construction dictates, the depth may be reduced to 2-1/8" or 1-1/2" under special conditions.
 - Fixture outlets in ceilings (minimum) shall be 4" octagonal X 1-1/2" deep (4-11/16" octagonal X 2-1/2" deep where required to accommodate larger conduit or larger number of wires).
 - Ganged boxes shall be one piece (minimum), 2-1/8" deep.
 - Provide cast iron, concrete-lite floor boxes with adjustable covers set flush and level with the finished floor with no edge or recess on the drawings. Provide wiremodel #880CS-1, #817b, #828 wires (less with steel screw cover) as indicated. Provide wiremodel #880CS-2, #827b, #828 (less with steel screw cover) as indicated. Provide wiremodel #880CS-1, #827b, #828 (less with steel screw cover) as indicated. Flush type covers and openings to serve outlets used, furnish flush caps for closing off box when not in use. Finish shall be as follows:
 - Flush metal boxes in finished walls, install the plaster rings in drywalled plastered walls and raised covers as required in walls with other finishes so that the cover plates fit tightly against boxes or rings. 3/16" minimum gaps are allowed for non-combustible walls.
 - Flush type outlet boxes in concrete walls and construction to occur in the nearest joint to the height specified. Flush type shall meet all requirements.
 - Support all boxes to maintain proper alignment and rigidity.
 - Close boxes of all foreign matter prior to the installation or wiring of devices.
 - Marking heights of the devices shall be to the centerline of the box unless otherwise noted.

Section 260923 - Lighting Control Devices

- A. Sensor Layout: Utilizing project-specific floor plans, manufacturer shall produce a CAD layout of their recommended locations for all occupancy sensors and daylight sensors. Indicate where additional sensors are recommended or where any sensors can be eliminated. Contractor shall use this layout for rough-in of sensor locations.
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
- Lutron
- C. Occupancy Sensors, Line Voltage, Wall Switch Type
- Shall use passive infrared motion detection.
 - Shall be compatible with incandescent, magnetic or electronic low voltage, and magnetic or electronic fluorescent, as well as motor loads.
 - Switch shall be microprocessor controlled.
 - Shall be capable of detecting occupancy with true, 180° field of view.
 - Shall utilize zero crossing circuitry, which increases relay life, protects from the effects of inrush current, and increases sensor longevity.
 - Wall switch shall have integral shutters that narrow the field of view from 180°.
 - Shall feature pushbutton for manual on and off, which times out based upon occupancy detector.
 - An LED shall indicate occupancy status.
 - Internal timer shall be factory set at 10 minutes, shall be push-button programmable from 3 seconds to 20 minutes and shall reset every time occupancy is re-detected. Requires no field calibration or sensitivity adjustments.
 - Manual range, photocell, and time settings shall be user-configurable.
 - Switch shall be rated at 120/277V in one unit.
 - Unit shall fit in a standard box and use a standard wallplate, which is gangable.
 - Wall switch shall not protrude more than .4 inches from box.
 - Shall be a Decora style unit with a matching wallplate available.
 - Shall have standard 5 year warranty and shall be UL listed.
 - Two-pole devices shall provide switching for 2 separate banks from a single unit.

- Two-pole devices shall provide switching for 2 separate banks from a single unit.
- E. Occupancy Sensors, Low Voltage, Ceiling Mount
- Shall incorporate dual-technology passive infrared and ultrasonic motion detection.
 - Shall mount on ceiling.
 - Shall have 360° coverage with at least a 28 ft coverage pattern (when mounted at 9 ft) in 8 directions for walking motions.
 - Shall automatically adapt to changing room conditions—including background PIR levels, an continuous airflow not less than 6 feet from sensor.
 - Shall incorporate a real-time motion indicator LED, which is visible from the front of unit.
 - Shall have mask inserts for PIR rejection to prevent false tripping.
 - Internal timer shall be factory set at 10 minutes, shall be push-button programmable from 3 seconds to 20 minutes and shall reset every time occupancy is re-detected. Requires no field calibration or sensitivity adjustments.
 - Shall be included with a low voltage relay for tie-in to building automation system.
 - Shall have standard 5 year warranty and shall be UL listed.
- F. Power Pack
- Transforms 120 or 277V to class 2, 15 to 24V DC, to power remote sensors.
 - Shall be compatible with incandescent, magnetic or electronic low voltage, and magnetic or electronic fluorescent, as well as motor loads.
 - Ratings: 20A incandescent, 20A fluorescent, 120 or 277V.
 - Shall be plenum rated. Mount in deep junction box where required per local AHJ.
 - Shall have elongated mounting nipple which can be mounted either directly through ½" knockout in a junction box or to be located inside an adjacent box for specific local code requirements. Contractor to verify.
 - Shall be capable of powering up to 16 sensors.
 - Shall have self-contained relays with relay circuit protection.
 - Provide 2-pole version for rooms with two levels of lighting control including inboard/outboard switching.
 - Shall have standard 5 year warranty and shall be UL listed.

- G. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust field-assembled components and equipment installation, including connections, and assist in field testing. Report results in writing. Remove and replace lighting control devices where test results indicate that they do not comply with specified requirements.
- H. Adjusting
- Final occupancy sensor locations shall be determined in accordance with manufacturer recommendations and locations adjusted as required prior to rough-in. Refer to sensor layout submittal provided by manufacturer. All sensors shall have non-adjustable factory calibrate sensitivity for maximum performance. A factory-authorized service representative shall be engaged to meet on-site with the contractor to determine proper device locations prior to rough-in.
 - Once lighting fixtures and occupancy sensors have been installed, a factory-authorized service representative shall be engaged to set-up and program occupancy sensors and photosensor. Contractor and service representative shall meet on-site with the Owner to determine appropriate set points and programming.
 - All occupancy sensors shall be field adjusted/aimed to effectively detect motion and eliminate nuisance tripping.
 - Time Delay Settings for occupancy sensors shall be factory set at 10 minutes, and shall not be field adjusted unless specifically instructed by Architect. This delay selection is based on lamp life vs. energy savings and sensor performance.
 - Once all occupancy sensors have been set-up, adjusted and programmed, contractor shall meet again with factory-authorized service representative and Owner to test operation of system. Service representative shall be engaged to make adjustments to sensors, set points and programming as necessary for proper operation.
- I. Occupancy Adjustments: When requested within 12 months of date of Substantial Completion, a factory-authorized service representative shall be engaged to provide on-site assistance in adjusting sensors to suit actual occupied conditions. Provide up to two visits to site outside normal occupancy hours for this purpose.
- J. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain lighting controls. Refer to Division 1 Section "Closeout Procedures." Provide a minimum of four (4) hours of Owner training.

Section 262416 - Distribution and Panelboards

- A. Panelboards
- Panelboards shall be enclosed dead front safety type with features and ratings as scheduled on the drawings.
 - Panels known as "load centers" are unacceptable.
 - Molded case circuit breakers shall be as scheduled on the drawings and specified in this division.
 - All bus bar shall be rectangular solid copper.
 - Space, where shown in panel schedules, designates space for future protective devices and shall include bus and support.
 - Install cabinets so that center of the top breaker does not exceed 6'-6" above the finished floor.
 - Entries on directory cards shall be typed, complete and accurate.
 - All bolted connections shall be torqued in accordance with manufacturer's standards.
 - Electrical contractor shall arrange cabling as near as possible to circuit numbers on the drawings. At completion of job, electrical contractor shall take current reading checks of respective phases. A minimum of circuit connections shall be rearranged to balance, as closely as possible, the load in the panel.
 - All breakers shall be bolt-on type.
 - Provide (3) spare 1" conduits into accessible ceiling space where panels are flush-mounted.
 - Manufacturer shall be Square D, Siemens, G.E., or Cutler-Hammer.

Section 262726 - Wiring Devices

- A. Wiring device color shall be selected by architect, unless otherwise indicated.
- B. Provide totally enclosed, 20 ampere, 120/277 volt, quiet A/C general use snap switches.
- C. Switches shall be specification grade as manufactured by Hubbell, P&S, or Leviton.
- D. Provide NEMA configuration 5-20R Duplex 125 volt grounding type receptacles rated for 20 amperes unless otherwise indicated on the drawings.
- E. Receptacles shall be specification grade as manufactured by Hubbell, P&S or Leviton.
- F. Receptacles requiring amperages, voltages or configurations different from the duplex convenience receptacles above shall be as indicated on the drawings.
- G. Provide other receptacles of a quality, material and workmanship equal to that specified for duplex convenience receptacles.
- H. Provide cover or device plates for outlet boxes as follows unless otherwise noted:
- Finished areas: Thermoplastic - color to match device.
 - Unfinished areas: Zinc coated sheet metal, aluminum, or cast metal as appropriate for the type of exterior.
 - Exterior areas: Copper free aluminum with gray, powder epoxy finish, gasket, weatherproof, Crouse-Hinds "WL-RD" for duplex receptacles and WLRS for single receptacles or equal.
 - Telephone, communication, and signal outlet plates, shall match those used for receptacles and switches. All outlet and/or junction boxes shall be complete with a cover plate by this contractor.
 - Where devices are ganged, they shall be installed under a common cover plate.
- I. Locate the switches approximately 4'-0" above the finished floor elevation or nearest block course (within A.D.A. requirements), unless otherwise indicated. The long dimension of the switches shall be vertical.
- J. Locate receptacles approximately 1'-6" above the finished floor elevation or nearest block course (within A.D.A. requirements), unless noted otherwise. The long dimension of receptacles shall be vertical.

Section 262813 - Fuses

- A. The contractor shall furnish a complete set of fuses for all switches, plus fusible equipment furnished by other trades. Unless indicated otherwise on plans, the fuses shall be of the following types:
- Fuses 601 to 6000 amps shall be UL class. Trade type shall be KRP-C as manufactured by Bussmann Company.
 - Fuses 1/10 to 600 amps shall be UL class RK1. Trade type shall be low peak LPS-RK (600V) and LPN-RK (250V) as manufactured by Bussmann Company.
 - All other fuses shall be dual-element current-limiting type with 200,000 amperes symmetrical interrupting capacity.

bluemercury

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NO.	DATE	DESCRIPTION

DATE: 07/18/2022

DRAWN BY: TBA

PROJECT NO.: 22129

FILE NAME: 2022-0809 E5.dwg

ELECTRICAL SPECIFICATIONS

E5

GRAPHIC SCALE:



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ELECTRICAL
SPECIFICATIONS

E5.1

GRAPHIC SCALE:

- B. Fuses shall be manufactured by Bussman, Gould-Shawmutt, or Reliance.
- C. Spare fuses amounting to a duplicate set of each size installed shall be turned over to the owner upon completion of the project. Provide and place in a spare fuse cabinet similar to Bussman # SFC.
- D. This contractor shall replace all fuses blown during construction.

Section 262913 - Motor Starters

- A. Provide motor starters (magnetic or fused combination) and control equipment where shown. Starters shall be provided with 120 volt coils, 3 overloads, control transformer with fused 120 volt secondary control circuit, (2) N.O. and (2) N.C. auxiliary contacts, hand-off-auto selector switch and running pilot light, unless otherwise noted. Wire thru control devices furnished by other trades. Since motor driven equipment is furnished by other trades, the control indicated on the drawings shall be considered as for bidding purpose only. Wire to conform to the actual equipment supplied and installed by the other trades. All fuses shall be dual element type. Provide "blowfuse" indicator lamps in cover.
- B. Starters shall be Square D, G.E., Cutler-Hammer, or Siemens.
- C. The exact number of normally open and normally close auxiliary contacts in each starter shall be determined by the temperature control contractor.
- D. Coordinate all equipment indicated on the electrical drawings with mechanical equipment schedules and specifications and provide motor starters for all equipment indicated as being interlocked or started from a remote location.
- E. Starters supplied as an integral part of equipment shall be furnished under the division providing the equipment. Wiring and disconnect shall be by this contractor. All other starters and auxiliary control equipment shall be supplied and wired by this contractor unless otherwise noted.

Section 265119 - Lighting Fixtures

- A. LED lighting fixtures:
1. Recessed Fixtures: Comply with NEMA LE 4.
 2. Bulb shape complying with ANSI C79.1.
 3. Lamp base complying with ANSI C81.61.
 4. CRI of minimum 80.
 5. CCT of 3500K, unless noted otherwise on the plans or fixture schedule.
 6. Rated lamp life of 50,000 hours, minimum at 70 percent lumen maintenance.
 7. Lamps dimmable from 100 percent to 10 percent of maximum light output, unless noted otherwise on the plans or fixture schedule.
 8. Integral driver. Driver power factor shall be 40 percent or greater. Harmonic distortion shall be less than 10% THD. Drivers shall be equipped with automatic thermal protection and 20 KA surge protection with end of life LED indicator.
 9. Nominal Operating Voltage: as indicated on plans and schedules.
 10. Efficiency minimum of 80 lumens per watt.
 11. Each LED luminaire type shall be binned within a three-step MacAdam Ellipse to ensure color consistency among luminaires.
 12. Fixtures shall comply with UL 1598 and UL 8750.
- B. Exit Signs:
1. Comply with UL 924; for sign colors and lettering size, comply with authorities having jurisdiction.
 2. Internally Lighted Signs: Lamps for AC Operation: Light-emitting diodes, 70,000 hours minimum rated lamp life.
 3. NFPA 101 Compliance: Comply with visibility and luminance requirements for exit signs.
- C. All lighting fixtures shall be furnished and installed by electrical contractor as indicated on the lighting fixture schedule. Other acceptable manufacturers shall be at the discretion and approval of the architect and engineer.
- D. All fixtures shall bear the underwriter's laboratories (UL) label, be listed and approved for the purpose intended and installed according to manufacturer's instructions.
- E. Existing fixtures noted to be reused shall be cleaned and relamped.
- F. All lighting fixtures shall be coordinated with the electrical contractor. Contractor shall verify if and where Generator/Transfer Devices (GTDs) are required prior to ordering lighting fixtures.
- G. Electrical contractor shall coordinate with the lighting fixture mounting options and hardware are coordinate with the mechanical contractor. Contractor shall verify fixture mounting heights with architect prior to ordering and rough-in.
- H. Coordinate layout and installation of lighting fixtures and suspension system with other construction that penetrates ceilings or is supported by them, including HVAC equipment, fire-suppression system, air partition assemblies.
- I. Set all lighting fixtures level, plumb, and square with ceilings and walls.
- J. This contractor shall provide and install all necessary support media for all lighting fixtures including structural steel, angle, rods, etc. and shall be supported in a manner acceptable to the local inspecting authorities. All fixtures shall be firmly supported from beams or joists.
1. Provide all necessary backing, blocking and supports for wall mounted fixtures.
 2. Fixtures shall not be supported from roof deck.
 3. Support for Fixtures on or on Grid-Type Suspended Ceilings:
 - a. Install a minimum of four ceiling support system rods or wires for each fixture. Locate no more than 6 inches (150 mm) from fixture corners.
 - b. Support Clips: Fasten to fixtures and to ceiling grid members at or near each fixture corner with clips that are UL listed for the application.
 - c. Fixtures of Sizes Less Than Ceiling Grid: Install as indicated on reflected ceiling plans (center in acoustical panel, and support fixtures independently with at least two 3/4-inch (20-mm) metal channels spanning and secured to ceiling tees.
 4. Suspended Fixture Support: Pendants and Rods: Where longer than 48 inches (1200 mm), brace to limit swinging.
- K. If required by code, light fixtures shall be Chicago Plenum or New York City rated. If required by code (project requirements, light fixtures shall be CALGREEN, DC Green, Title 24 and/or Energy Star compliant/certified).
- L. Recessed fixtures recessed in air plenums shall be approved for the purpose intended and installed according to manufacturer's instructions. Fixtures shall be air-tight rated and/or provide air-tight gaskets to seal around openings.
- M. Recessed fixtures in direct contact with insulation shall be IC (Insulated Ceiling) rated. Insulation shall be kept away from Non-IC rated fixtures as required by code and manufacturer's instructions. Provide barriers as required.
- N. All penetrations associated with the electrical installation located in or passing through fire rated assemblies shall be fire-stopped using a UL approved method. Furnish and install UL listed fire rated materials and equipment such as boxes, paddy pads, endothermic mat, lighting fixtures with rated enclosures, fire rated covers, for lighting fixtures, etc. to comply with code for project conditions. UL approved method for fire stopping shall meet or exceed fire rating of structure being penetrated. Reference architectural plans for fire ratings.
- O. All adjustable fixtures shall be aimed and adjusted during evening hours to the satisfaction of the architect.
- P. Submittals: In accordance with other sections of these specifications, provide shop drawings for lighting fixtures containing the following information (as applicable):
1. Project specific luminaire designation
 2. All features, options, accessories, mounting, etc. clearly marked
 3. Luminaire dimensions
 4. Delivered lumen output, CCT and CRI
 5. Lamp life
 6. Energy efficiency data
 7. Photometric data
 8. Listings (NRTL, IC, IP, etc.)
 9. Lighting controls compatibility
 10. Emergency batteries (integral or remote) including the capacity and lumen output
 11. Factory shop drawings indicating project specific lengths and layouts for all continuous linear products

Section 270528 - Telephone System

- A. Electrical contractor to provide telephone service conduit or duct to telephone board as shown on plans. Service conduit size and quantity shall be as determined by local telephone company.
- B. This contractor shall provide and install all conduits with pull wires, outlet boxes, metal cabinets and pull boxes. Provide a complete conduit system with pull wire as indicated on drawings.

- C. All plates shall be standard telephone type with jack. Provide plates of same material and finish as specified for receptacles. Wall phone plates shall have mounting studs.
- D. Provide fire-rated plywood terminal board as shown on drawings.
- E. A conduit run shall have not more than three (3) bends in a run between outlet boxes or between outlet box and a metal cabinet or pull box. When a run requires more than three (3) bends, a pull box of suitable size shall be placed in suitable location to meet the above conditions.

Section 284621 - Alarm System

- A. Supervisor Alarm System
1. This contractor shall submit fire alarm system drawings and specifications to the local fire department for their approval before installation of any supervisory alarm components or wiring. Equipment: all devices, combinations of devices, appliances and equipment shall be listed for the purpose for which they are used and shall be installed in compliance with applicable codes and standards.
 2. Provide a complete, supervised, power-limited, supervisory alarm system. All equipment herein specified is that of Simplex Time Recorder Company. Equipment supplied by listed acceptable alternate manufacturers shall meet or exceed the quality of the Simplex Equipment specified.
 3. The supervisor alarm system shall be an electrically supervised system, which shall monitor the integrity of circuit conductors and power supplies.
 4. The installation organization shall be a company specializing in the installation of supervisory systems. This organization shall have a minimum of five years experience with installation of such systems.
 5. The contractor shall provide and maintain on the site an up-to-date record set of approved shop drawings.
 6. Record drawings shall include location of end-of-line device locations.
 7. Upon completion of the work, and final acceptance by the local authority, the contractor shall submit record drawings to the owner.
 8. A remote monitoring facility output circuit, selectable for interface to remote station reverse polarity local energy master box, shunt master box, digital alarm communicator, or radio transmitter monitoring systems, shall be provided. The equipment supplier must contact the local authorities prior to bidding and supply all required equipment in base bid.
 9. Control panel shall be Simplex 4004-9101. The power supply shall be adequate to serve control panel modules, relays and alarm indicating appliances. Include a secondary emergency power supply with capacity for operating system for a period of time as specified per NFPA, the local authorities having jurisdiction and or Owner/Building Standards. The strictest provision shall govern.
 10. Duct-mounted smoke detectors shall have a base with auxiliary relay (Simplex Type 2098-9201), and sampling tubes (length as required).
 11. Duct detector remote key reset/test station with alarm LED shall be Simplex Type 2098-9806.
 12. Semi-flash audio/visual unit shall be Simplex Type 4903 Series with A.D.A. complying 15/75 Candela strobe and horn.
 13. Waterflow and tamper switches shall be furnished and installed by the sprinkler contractor. The electrical contractor shall connect each device to the supervisory alarm system.
 14. Provide and install wiring per manufacturers' specifications. All wiring shall be in conduit (3/4" minimum).
 15. All junction boxes shall be painted red. Wiring color code shall be maintained throughout the installation.
 16. The completed supervisory alarm system shall be fully tested in accordance with NFPA-72H, and local fire department requirements, by the installer, in the presence of the owner's representative and the local fire marshal. Upon completion of a successful test, the installer shall so certify, in writing, to the owner and general contractor.
 17. Include on-site services of a certified technician to provide technical installation support for panel start-up, program editing, troubleshooting of the supervisory alarm system control panel, and assistance to the installer for one complete final system checkout in accordance with the field quality control section of these specifications.
 18. Acceptable manufacturers/suppliers shall be Simplex or Notifier (as supplied by a certified Nescio affiliate).

A SEPARATE ELECTRICAL
PERMIT IS REQUIRED
ELECTRICAL PLAN
REVIEW REQUIRED