SOUTH MERIDIAN & 43RD AVE SE

4227 S MERIDIAN
SUITE E
PUYALLUP, WA 98373

City of Puyallup
Building
REVIEWED FOR COMPLIANCE
SKinnear
01/02/2025
2:28:27 PM

Approval of submitted plans is not an approval of omissions or oversights by this office or non compliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable codes and regulations of the local government.

The approved construction plans, documents, and all engineering must be posted on the job at all inspections in a visible and readily accessible location.

Full sized legible color plans are required to be provided by the permitee on site for inspection.

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

City of Puyallup
Development Engineering
APPROVED
See permit conditions.
AHunt
01/10/2025
10:09:48 AM

City of Puyallup
Planning Division
APPROVED
See permit conditions.
JHulseLew
01/09/2025
7:53:09 AM

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

ISSUED - 11.13.2024

SCOPE OF WORK - ALTERATION LEVEL 1

NO CHANGES PROPOSED FOR BUILDING TYPE OR OCCUPANCY GROUP

1. NEW
- FIXTURE, FURNITURE, EQUIPMENT AND GRAPHICS
- INTERIOR PARTITIONS AND DOORS
- FINISHES IN ALL AREAS
- CEILING IN ALL AREAS
- LIGHTING IN ALL AREAS
- PLUMBING FIXTURES
- ELECTRICAL SYSTEM
- MECHANICAL SYSTEM
- FIRE SAFETY EQUIPMENT
- EGRESS

T-Mobile

12920 SE 38TH STREET
BELLEVUE, WA 98006
www.T-Mobile.com

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SOUTH MERIDIAN & 43RD AVE SE
4227 S MERIDIAN
SUITE E
PUYALLUP, WA 98373

PROJECT TYPE: CORPORATE NEW CD
DESIGN TYPE: E1Y

8022

PROTOTYPE RELEASE:
DCD:

20123279 REGISTERED ARCHITECT
WILLIAM LOUIS PALUCH
STATE OF WASHINGTON

11/25/2024

FUZION
20551 N. PIMA ROAD
SUITE 200
SCOTTSDALE, AZ 85255
design@fuzionad.com
(480) 463-4764
www.fuzionad.com

PRCTI20241902

##	DESCRIPTION:	DATE

DATE: 11/13/2024
DRAWN BY: BC

COVER SHEET

G000

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH ALL CODES HAVING JURISDICTION.

2. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE BUILDING MANAGEMENT'S RULES AND REGULATIONS.

3. MODIFICATIONS TO THE BASE BUILDING STRUCTURE, CORE AREAS, AND UTILITY SYSTEMS ARE NOT IN THIS CONTRACT, EXCEPT A NOTED ON THESE DRAWINGS OR AS REQUIRED TO COMPLETE THE WORK INDICATED ON THESE DRAWINGS.

4. THE G.C. SHALL MAKE ALL ARRANGEMENTS AND PAY FOR ALL FEES AND PERMITS REQUIRED, AS WELL AS ANY ADDITIONAL CHARGES FOR HAULING, RIGGING, AND TRANSPORTATION CHARGES.

5. THE CONTRACT DOCUMENTS CONSIST OF THE AGREEMENT BETWEEN T-MOBILE AND G.C. (HEREINAFTER REFERRED TO AS THE AGREEMENT) WITH CONDITIONS OF THE CONTRACT (GENERAL, SUPPLEMENTARY, AND OTHER CONDITIONS). DRAWINGS, SPECIFICATIONS, ADDENDA ISSUED PRIOR TO THE EXECUTION OF THE AGREEMENT, OTHER DOCUMENTS LISTED IN THE AGREEMENT, AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE AGREEMENT.

6. THE INTENT OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTORS. PERFORMANCE BY THE G.C. SHALL BE REQUIRED ONLY TO EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS.

7. THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUED TO CREATE A CONTRACTUAL RELATIONSHIP OF ANY KIND (1) BETWEEN THE ARCHITECT AND G.C., (2) BETWEEN T-MOBILE AND A SUBCONTRACTOR OR SUB-SUBCONTRACTOR, OR (3) BETWEEN ANY PERSONS OR ENTITIES OTHER THAN T-MOBILE AND G.C.

8. EXECUTION OF THE CONTRACT BY G.C. IS A REPRESENTATION THAT THE G.C. HAS VISITED THE SITE ANS HAS BECOME FAMILIAR WITH THE LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING WORK AND SHALL NOTIFY ARCHITECT AND/OR ENGINEER IF A CONDITION EXISTS WHICH PREVENTS THE CONTRACTOR FROM ACCOMPLISHING THE INTENT OF DRAWINGS.

9. THE TERM "WORK" MEANS THE CONSTRUCTION AND SERVICES REQUIRED BY THE CONTRACT DOCUMENTS, WHETHER COMPLETED OR PARTIALLY COMPLETED, INCLUDES ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES PROVIDED (OR TO BE PROVIDED) BY THE G.C. TO FULFILL THE G.C.'S OBLIGATIONS. THE WORK MAY CONSTITUTE THE WHOLE OR PART OF THE PROJECT.

10. G.C. SHALL NOT CUT OR DISTURB EXISTING STRUCTURAL SYSTEM. THE G.C. SHALL X-RAY/PACHOMETER SLAB TO DETERMINE IF POST TENSIONED SLAB OR IF DESIGN IS IN CONFLICT WITH EXISTING STRUCTURAL SYSTEMS WHEN THE FOLLOWING OCCURS:
10.1. TENANT SPACE IS LOCATED ON SECOND FLOOR OR ABOVE 10.2. LOWER LEVEL EXTENDS BELOW THE TENANT SPACE 10.3. ABSENCE OF STRUCTURAL DRAWINGS FROM ARCHITECTS AND/OR LANDLORD 10.4. ABSENCE OF STRUCTURAL DRAWINGS INCLUDED WITH CONTRACT DOCUMENTS.

11. G.C. SHALL ONLY INCLUDE AN ALLOWANCE IN HIS BID FOR THE X-RAY/PACHOMETER WHEN ANY OR ALL OF THE ABOVE OCCUR, TYP.

12. PROVIDE CONTROL KEY AND MASTER KEY AS REQUIRED BY CONTRACT. PERFORM ALL REQUIRED CLEANINGS AS PER CONTRACT INCLUDING, BUT NOT LIMITED TO, ALL STOREFRONT WINDOWS, MULLIONS, CEILINGS, SUPPLY/RETURN AIR GRILLS, FLOORING AND FLOOR WAX, TOILET ROOMS, TOILET ROOM CAULKING, AND WALK-OFF MAT. REMOVE ALL TRASH AND DEBRIS FROM THE SITE.

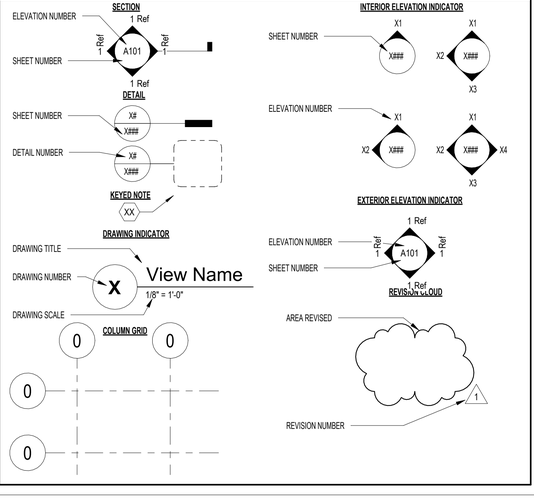
13. ALL REFERENCES HEREAFTER TO CONSTRUCTION PM OR ARCHITECT REFER TO THE CONTACT LISTED IN PROJECT TEAM.

14. PROVIDE OCCUPANCY SIGNS CONFORMING TO APPLICABLE BUILDING CODE REQUIREMENT15. PROVIDE ADDITIONAL EXIT SIGNS AND FIRE EXTINGUISHERS IN TYPE, NUMBER, AND LOCATION AS DIRECTED BY THE FIRE DEPARTMENT FIELD INSPECTOR.

ABBREVIATIONS

ACT	ACOUSTICAL CEILING
ADJ.	ADJACENT
ALUM.	ALUMINUM
ALT.	ALTERNATE
A.P.	ACCESS PANEL
APPX.	APPROXIMATE
ARCH.	ARCHITECTURAL
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
CAB.	CABINET
CLG.	CEILING
CLR.	CLEAR
CMT.	CEMENT
CMU.	CONCRETE MASONARY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CPT.	CARPET
CTR.	CENTER
DET.	DENTAL
DIA.	DIAMETER
DIFF.	DEFFUSER
DIM.	DIMENSION
DWG(S).	DRAWING, DRAWINGS
EA.	EACH
E.I.F.S.	EXTERIOR INS. FINISH SYSTEM
ELEC.	ELECTRIC, ELECTRICAL
EM.	EMERGENCY
EQ.	EQUAL
EQUIP.	EQUIPMENT
EWC.	ELECTRICAL WATER COOLER
EXH.	EXHAUST
EXIST.	EXISTING
EXT.	EXTINGUISHER
FIN.	FINISH
FIXT.	FIXTURE
FLR	FLOOR
F.R.	FIRE RATED/ RETARDANT
F.R.P.	FIBREGLASS REINFORCED PLAST
F.R.T.	FIRE RETARDANT TREATED
GA.	GAUGE
GALV.	GALVANIZED
GRND	GROUND
GYP.	GYPSUM
HDW.	HARDWARE
H.M.	HALLOW METAL
HR.	HOUR
HT.	HEIGHT
H.V.A.C.	HEATING, VENTILATION, AIR CONDITION
J.H.A.	JURISDICTION HAVING AUTHORITY
LAM.	LAMINATE
LAV.	LAVATORY
LL	LANDLOARD
L.T.	LIGHT
L.V.T.	LUXURY VINYL TILE
MAX.	MAXIMUM
MECH.	MECHANICAL
MTL.	METAL
MGR.	MANAGER
MFR.	MANUFACTURER
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
MTD.	MOUNTED
MTG.	MOUNTING
N.I.C.	NOT IN CONTRACT
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETAR
OPP.	OPPOSITE
PL/WD.	PLYWOOD
PNL.	PANEL
PROP.	PROPERTY
P.T.	PRESSURE TREATED
PWR.	POWER
QTY.	QUANTITY
R.	RADIUS
REQ.	REQUIRED
R.O.	ROUGH OPENING
S.C.	SOLID CORE
SCHED.	SCHEDULE
SECT.	SECTION
SQ.FT.	SQUARE FEET
SIM.	SIMILAR
SPEC.	SPECIFICATION
SQ.	SQUARE
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
SYM.	SYMMETRICAL
TEL.	TELEPHONE
TELCO.	TELE-COMMUNICATIONS
TMO.	T-MOBILE
TYP.	TYPICAL
U.O.N.	UNLESS NOTED OTHERWISE
VCT.	VINYL COMPOSITION
W/	WITH
WD.	WOOD
W/O	WITHOUT
WP.	WATERPROOF
W.R.	WATER RESISTANT
WT.	WEIGHT

SHEET SYMBOLS



RESPONSIBILITY SCHEDULE

ITEM	FURNISHED BY	INSTALLED BY
GENERAL		
OBTAIN ALL APPLICABLE PERMITS AND CERTIFICATE OF OCCUPANCY	TM GC	TM GC
UTILITY FEES (IF NEW CONSTRUCTION)	N/A	N/A
ELECTRICAL METER	EXISTING	EXISTING
GAS METER	EXISTING	EXISTING
WATER METER OR SUBMETER	EXISTING	EXISTING
ASBESTOS/HAZMAT REPORTS AS-REQUIRED FOR PERMIT	TM DIRECT	TM DIRECT
ADDITIONAL ENVRONMENTAL REPORTS, AS-REQUIRED	TM DIRECT	TM DIRECT
CORE, SHELL, AND SITE WORK		
SITE ACCESSIBILITY & SIDEWALKS, AS-REQUIRED	EXISTING	EXISTING
PARKING LOT PAVING AND STRIPING, AS-REQUIRED	LANDLORD	LANDLORD
DEMOLITION – SITE/BUILDING, AS REQUIRED	N/A	N/A
DEMOLITION – INTERIOR, AS REQUIRED	TM GC	TM GC
BUILDING STRUCTURE EXTERIOR WALLS, ROOF, NEW OR MODIFY AS REQUIRED	TM GC	TM GC
THERMAL INSULATION OF EXTERIOR WALLS/ROOF, NEW OR REPAIR AS REQUIRED	TM GC	TM GC
INSIDE OF EXTERIOR WALL GYPSUM BOARD, AS REQUIRED	TM GC	TM GC
CONCRETE SLAB NEW AND OR MODIFY AS REQUIRED	TM GC	TM GC
EXTERIOR FINISHES/REPAIRS/PAINTING, AS REQUIRED	LANDLORD	LANDLORD
EXTERIOR STOREFRONT SYSTEMS, ENTRY DOORS, & GLAZING, AS REQUIRED	TM GC	TM GC
EXIT DOOR NEW OR REPAIR, AS REQUIRED	TM GC	TM GC
DEMISING WALL STUDS NEW AND OR MODIFY AS REQUIRED	TM GC	TM GC
DEMISING WALL GYP, INSULATION, FIRE CAULKING: NEW OR MODIFY AS REQUIRED	TM GC	TM GC
EXTERIOR SIGNAGE BLOCKING	TM GC	TM GC
HVAC- UNIT(S), CURB(S), DROP(S), ECONOMIZERS, CONDENSATE PANS, CONNECTION TO UTILITIES	TM GC	TM GC
ROOF NEW & OR PENETRATIONS, REPAIRS AS REQUIRED	TM GC	TM GC
ELECTRICAL CONDUIT BETWEEN METER BASE AND TENANT SPACE, AS REQUIRED	TM GC	TM GC
ELECTRICAL TRANSFORMERS NEW AND OR MODIFY AS-REQUIRED	TM GC	TM GC
ELECTRICAL SYSTEM - MAIN PANEL NEW AND OR MODIFY AS REQUIRED	TM GC	TM GC
ELECTRICAL SYSTEM - SUB PANEL(S) NEW AND OR MODIFY AS REQUIRED	TM GC	TM GC
DATA SERVICE CONDUIT EXTENDED INTO SPACE, NEW & OR MODIFY AS REQ'D	TM GC	TM GC
PLUMBING MAIN SERVICE (SEWER & WATER) NEW & OR MODIFY AS REQUIRED	TM GC	TM GC
SPRINKLER MAINS, AS REQUIRED PER LOCAL/SITE REQUIREMENTS	N/A	N/A
FIRE ALARM PANEL, AS REQUIRED PER LOCAL/SITE REQUIREMENTS	N/A	N/A
INTERIOR TENANT BUILD: GENERAL CONSTRUCTION		
DEMISING WALL SECURITY MESH	TM GC	TM GC
DEMISING WALL / PATCH & REPAIR AS REQUIRED	TM GC	TM GC
OPAQUE WINDOW FILM - Installed on Glass Covered By Framing. TM REQ'D VENDOR	TM DIRECT	TM DIRECT
WINDOW SECURITY: FILM, GRILLS, DEFENSE LITE, or RIOT GLASS, TM REQ'D VENDOR	TM DIRECT	TM DIRECT
INTERIOR WALL PARTITIONS AND FURRING, INCLUDING GYP	TM GC	TM GC
INVENTORY ROOM WALLS/CEILINGS, MESH, CEMENT BOARD, & GYP	TM GC	TM GC
RESTROOM FRAMING INCLUDING HARDLID CEILING	TM GC	TM GC
GYPSUM BOARD CURTAINS WALLS, CEILINGS, SOFFITS, ACCESS PANELS	TM GC	TM GC
BLOCKING FOR FIXTURES/HARDWARE/SHELVING	TM GC	TM GC
TELCO BACKER BOARD: 4' X 8' 3/4" FIRE RATED PLYWOOD	TM GC	TM GC
INTERIOR DOORS & FRAMES	TM GC	TM GC
DOOR KICK-PLATES, CLOSERS	TM GC	TM GC
LOCKS: TRIDENT EXIT, TRILOGY KEYPAD, INVENTORY POLICE, &, LEVERSETS,TM REQ'D VENDOR	TM DIRECT	TM DIRECT
ACOUSTICAL CEILING TILE & GRID	TM GC	TM GC
PAINTING	TM GC	TM GC
FLOOR PREPARATION & TRANSITIONS	TM GC	TM GC
FLOORING: LUXURY VINYL TILE, CARPET TILE, RUBBER BASE, SHEET VINYL TM REQ'D SUPPLIER	TM DIRECT	TM GC
WOOD BASE	TM GC	TM GC
INTERIOR TENANT BUILD: MEP		
SPRINKLER BRANCH LINES AND HEADS, AS REQUIRED PER LOCAL/SITE REQUIREMENTS	N/A	N/A
FIRE ALARM DEVICES/CONNECTION TO PANEL, AS REQUIRED PER LOCAL/SITE REQUIREMENTS	N/A	N/A
HVAC DUCTWORK DISTRIBUTION	TM GC	TM GC
HVAC CONTROLS, ENTOUCH SYTEM UNLESS OTHERWISE SPECIFIED, (SEE COMMISSIONING SHEETS)	TM DIRECT	TM GC
LIGHTING CONTROLS, ENTOUCH SYSTEM, (SEE COMMISSIONING SHEETS)	TM DIRECT	TM GC
LIGHTING FIXTURES, INVERTERS, SWITCHES, SENSORS, DIMMERS, TVSS TM REQ'D SUPPLIER	TM DIRECT	TM GC
AUTOMATIC HAND DRYER & FAN/LIGHT COMBO, TM REQ'D SUPPLIER	TM DIRECT	TM GC
ELECTRICAL WIRING. OUTLETS	TM GC	TM GC
ELECTRICAL CONNECTIONS TO T-MOBILE SUPPLIED FIXTURES	TM GC	TM GC
LOW VOLTAGE CONDUIT	TM GC	TM GC
LOW VOLTAGE WIRING	TM DIRECT	TM DIRECT
TELCO BOARD: 3 LV CONDUIT SLEEVES, GROUNDING BAR, 4 QUAD RECEPTCLES/CIRCUITS	TM GC	TM GC
PLUMBING (BRANCH LINES NEW AND/OR MODIFICATIONS)	TM GC	TM GC
HOT WATER HEATER	TM GC	TM GC
TOILETS, URINALS, LAVATORIES	TM GC	TM GC
HIGH LOW DRINKING FOUNTAINS	TM GC	TM GC
MOP/UTILITY SINK	TM GC	TM GC
KITCHENETTE SINK AND FAUCET	TM GC	TM GC
HARDWARE, SHELVING, MISC		
KITCHENETTE CASEWORK	TM GC	TM GC
WALL MOUNTED SHELVING OVER KITCHENETTE, DESK, & UTILTY SINK	TM GC	TM GC
CODE REQUIRED INTERIOR SIGNAGE (ADA/EXIT.RR)	TM GC	TM GC
RESTROOM COAT HOOK, GRAB BARS, MIRROR, TP DISPENSER, TOILET SEAT COVER DISP	TM GC	TM GC
FIRE EXTINGUISHER(S)	TM GC	TM GC
REFRIGERATOR	TM GC	TM GC
INVENTORY ROOM WIRE SHELVING, PEGBOARD, LADDER HOOKS, CORNER GUARDS	TM GC	TM GC
OWNER SUPPLIED		
LOW VOLTAGE WIRING	TM DIRECT	TM DIRECT
NETWORK & COMPUTER INSTALLATION	TM DIRECT	TM DIRECT
INSTA-KEY LOCK CORES, KEYS	TM DIRECT	TM DIRECT
SIGNAGE: BUILDING, MOUNUMENT, PYLON, WINDOW WRAP GRAPHICS, ETC.	TM DIRECT	TM DIRECT
LOSS PREVENTION SYSTEM (BURGLAR)	TM DIRECT	TM DIRECT
SHOPPER TRAK & MUSIC SYSTEM	TM DIRECT	TM DIRECT
FIXTURES, MERCHANDISING HARDWARE, TABLES, CHAIRS & STOOLS	TM DIRECT	TM DIRECT
HAND SET SECURITY/IN-VUE	TM DIRECT	TM DIRECT
BOH FURNITURE PACKAGE: DESKS, CHAIRS, TABLES, FILE CAB, MICROWAVE, MISC	TM DIRECT	TM GC
OFFICE/TRAINING ROOM FURNITURE & EQUIPMENT, AS REQ'D	TM DIRECT	TM DIRECT

CODE ANALYSIS

PROJECT DESCRIPTION

TENANT IMPROVEMENT

MOBILE PHONE & SERVICE SALES (RETAIL)

REFER TO EGRESS PLAN ON G101

PROJECT LOCATION

SOUTH MERIDIAN & 43RD AVE SE

4227 S MERIDIAN

SUITE E

PUYALLUP, WA 98373

GOVERNING CODES

ALL WORK SHALL BE IN CONFORMANCE WITH, BUT NOT LIMITED TO, ANY STATE AND LOCAL CODES HAVING JURISDICTION AS WELL AS THE REQUIREMENTS OF THE FOLLOWING:

BUILDING	2021	INTERNATIONAL BUILDING CODE
MECHANICAL	2021	INTERNATIONAL MECHANICAL CODE
PLUMBING	2021	UNIFORM PLUMBING CODE
ELECTRICAL	2023	WASHINGTON ELECTRICAL CODE
ENERGY	2021	WASHINGTON STATE ENERGY CODE
ACCESSIBILITY	2017	ICC/ANSI A117.1
	2010	ADA STANDARDS
FIRE	2021	INTERNATIONAL FIRE CODE

PROJECT INFORMATION

CONSTRUCTION TYPE	II-B
FULLY SPRINKLERED	NO
OCCUPANCY GROUP	M-MERCHANTILE
GROSS LEASED PREMISES	3,562

OCCUPANT LOAD

ROOM NAME	SQFT.		LOAD FACTOR	OCCUPANT LOAD
SALES AREA	2,129	÷	60	36
HALLWAY	263	÷	60	5
CUSTOMER TOILET ROOM	60	÷	150	1
EMPLOYEE TOILET ROOM	60	÷	150	1
BREAK ROOM	248	÷	150	2
BACK OF HOUSE	311	÷	150	3
INVENTORY	125	÷	300	1
PRIVACY POD	86	÷	150	1
ACCESSORY	272			0
				50

EXIT REQUIREMENTS

TWO EXITS REQUIRED WHEN OCCUPANT LOAD IS GREATER THAN 49 OR COMMON PATH OF TRAVEL EXCEEDS 75FT.

	REQUIRED		PROVIDED
TOTAL NUMBER OF EXITS	2		2
MAXIMUM TRAVEL DISTANCE:	48'-2"	<	200'

FOR EXIT PATH OF TRAVEL SEE EGRESS PLAN ON SHEET G101

PLUMBING FIXTURE REQUIREMENTS

MIN. # OF FIXTURES	50	÷ 2 =	25 M	<	25 W

FIXTURE	LOAD FACTOR		REQUIRED		PROVIDED
WATER CLOSET	25/500 M	25/500 M	1		2
LAVATORY	25/750 M	25/750 M	1		2
SEPARATE FACILITIES	-	-	-		-
DRINKING FOUNTAIN	1/1000	-	1		1
SERVICE SINK	-	-	0		1

EXIT ILLUMINATION

EMERGENCY EXIT ILLUMINATION SHALL BE PROVIDED AS SHOWN ON SHEET E111.

MUNICIPAL REVIEW

CITY OF PUYALLUP

DEVELOPMENT AND PERMITTING SERVICES

CITY HALL, 2ND FLOOR

333 S MERIDIAN

PUYALLUP, WA 98371

(253) 864 - 4165

WORK BY OTHERS UNDER SEPARATE PERMIT

SIGNAGE

ALL REQUIRED PERMITS AND APPROVALS MUST BE OBTAINED FROM THE FIRE DEPARTMENT BEFORE SPACE IS OCCUPIED.

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City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning | Engineering | Public Works | Fire | Traffic

PROJECT TEAM

CLIENT
T-MOBILE
12920 SE 38TH STREET
BELLEVUE, WA 98006
WWW.T-MOBILE.COM

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EMAIL: DESIREE.BUSH14@T-MOBILE.COM

PROJECT MANAGER
CONTACT: TICE HAMBLET
EMAIL:TICE.HAMBLET1@T-MOBILE.COM

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ENCINO, CA 91436
CONTACT: KATRINA NADRES-HURTADO
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EMAIL:KNADRESHURTADO@LSCAPITAL.COM

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MEP ENGINEER
GEMINI ENGINEERING GROUP
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CTS
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SOUTH MERIDIAN & 43RD AVE SE
4227 S MERIDIAN
SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y
PROJECT TYPE: CORPORATE NEW CD

8022

PROTOTYPE RELEASE: DCD:

20123279 REGISTERED ARCHITECT
WILLIAM LOUIS PALUCH
STATE OF WASHINGTON

11/25/2024

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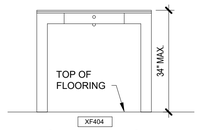
PRCTI20241902

##	DESCRIPTION:	DATE

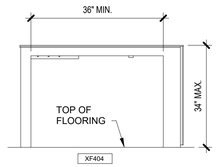
DATE: 11/13/2024
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ARCHITECTURAL DATA SHEET

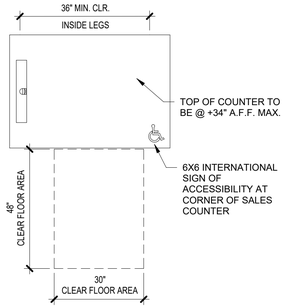
G001



A SIDE ELEVATION

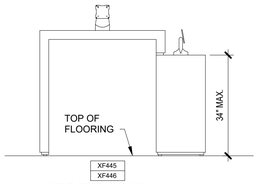


B FRONT ELEVATION

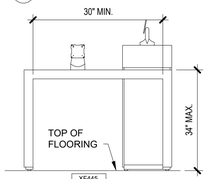


C ADA COUNTER PLAN

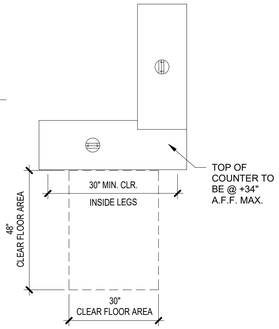
1 XF404 ADA SERVICE TABLE



A SIDE ELEVATION



B FRONT ELEVATION



C ADA COUNTER PLAN

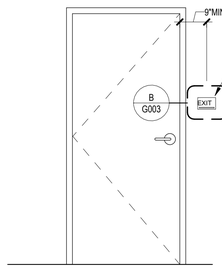
2 XF445/XF446 ADA SERVICE COUNTER

C4 SERVICE COUNTER ELEVATIONS

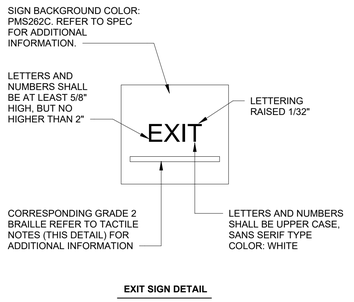
1/2" = 1'-0"

NOTE:
1. TACTILE SIGNAGE SHALL BE ALLOWED ON THE PUSH SIDE OF A DOOR WHEN THE FOLLOWING CONDITIONS EXIST: DOOR HAS A CLOSER, DOOR DOES NOT HAVE A HOLD OPEN DEVICE THAT PREVENTS IT FROM CLOSING.

2. REFER TO ACCESSIBLE SIGNAGE TABLE ON SHEET A401



TACTILE EXIT SIGNAGE (PLASTIC SIGN)



EXIT SIGN DETAIL

TACTILE EXIT SIGNAGE REQUIREMENTS

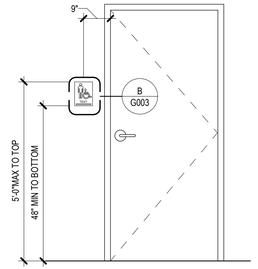
1. EACH GRADE-LEVEL EXTERIOR DOOR SHALL BE IDENTIFIED BY A TACTILE SIGN WITH THE WORD "EXIT".
2. EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR AN EXIT PASSAGEWAY IS IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD "EXIT ROUTE".
3. EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY OR RAMP IS IDENTIFIED BY A TACTILE EXIT SIGN THAT STATES "EXIT STAIR DOWN". "EXIT RAMP DOWN", "EXIT STAIR UP" OR "EXIT RAMP UP". AS APPROPRIATE.
4. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISULA EXIT SIGN IS IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE".
5. EACH EXIT DOOR THROUGH A HORIZONTAL EXIT SHALL BE IDENTIFIED BY A SIGN WITH THE WORDS, "TO EXIT".
6. LETTERS ON SIGNS ARE RAISED 1/32" , SANS SERIF UPPERCASE CHARACTERS AND ARE ACCOMPANIED BY GRADE 2 BRILLE.
7. RAISED CHARACTERS ARE BETWEEN 5/8" AND 2" HIGH.
8. BRAILLE DOTS ARE 1/10" ON CENTER IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS. MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. (NOTE: CA AND OTHER JURISDICTIONS ONLY.)
9. BRAILLE DOTS ARE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND.
10. CHARACTERS AND OTHER NON-GLARE FINISH.
11. CHARACTERS CONTRAST WITH THEIR BACKGROUND (LIGHT CHARACTERS ON A DARK BACKGROUND, OR DARK CHARACTERS ON A LIGHT BACKGROUND.)
12. LETTERS ON SIGNS HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT BETWEEN 1:5 AND 1:10.
13. SIGNS ARE TO BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. (AT DOUBLE LEAF DOORS AND WHEN THERE IS NO WALL SPACE AT THE LATCH SIDE, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT.)
14. MOUNTING HEIGHT IS 60" MAX. FROM THE FINISHED FLOOR TO THE TOP OF THE SIGN.
15. MOUNTING LOCATION ALLOWS A PERSON TO APPROACH WITHIN 3" OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

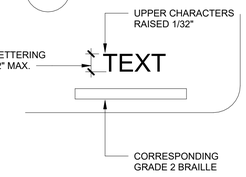
B4 ACCESSIBLE RESTROOM SIGNAGE

1/2" = 1'-0"



B RESTROOM PLAQUE





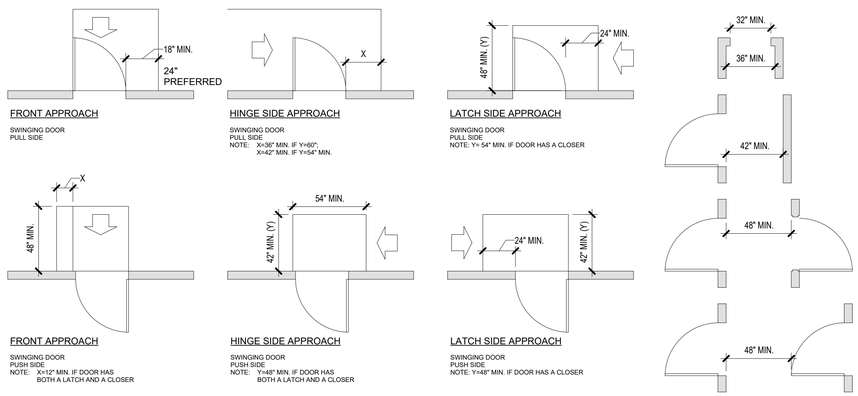
C SIGN VIEW

NOTE:
1. ACCESSIBILITY SIGNAGE: PROVIDE ACRYLIC REVERSE SILK SCREENED SIGNGS WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY, RAISED LETTERS, AND BRAILLE, AT ACCESSIBLE TOILET FACILITIES; ONE FOR EACH SEX OR ONE UNISEX.

2. REFER TO ACCESSIBLE SIGNAGE TABLE ON SHEET A401

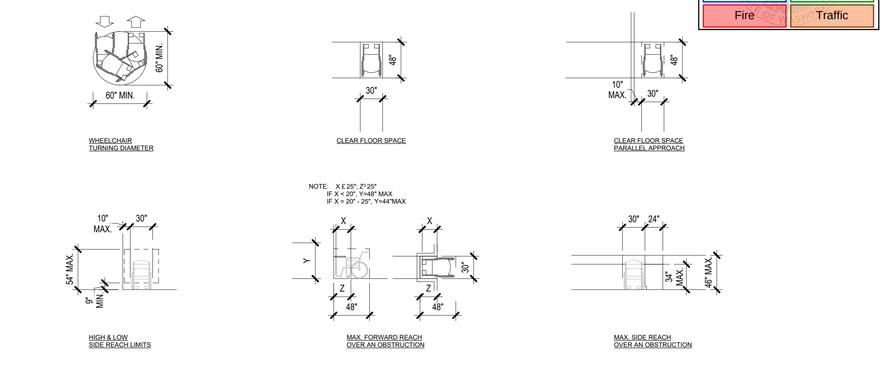
B2 ACCESSIBLE RESTROOM SIGNAGE

1/2" = 1'-0"



C2 MANEUVERING CLEARANCES AT DOORS

1/2" = 1'-0"

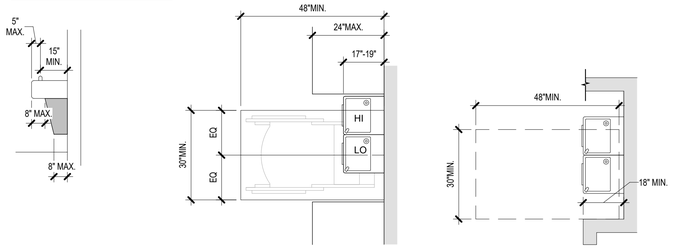


WHEELCHAIR CLEAR FLOOR SPACE AND REACH REQUIREMENTS

A4 DRINKING FOUNTAIN ADA CLEARANCES

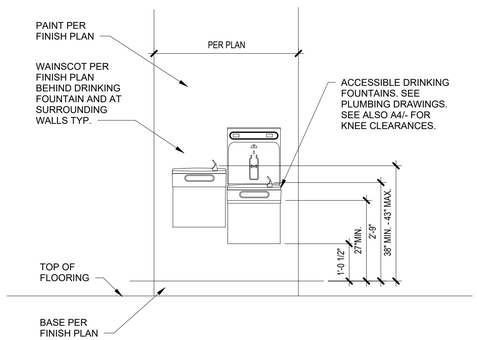
1/2" = 1'-0"

NOTE: EQUIPMENT PERMITTED IN SHADED AREA



A3 DRINKING FOUNTAIN ELEVATION

1/2" = 1'-0"



A2 ACCESSIBLE ROUTE

1/8" = 1'-0"

City of Puyallup
Development & Permitting Services
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Building	Planning
Engineering	Public Works
Fire	Traffic

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##	DESCRIPTION:	DATE

DATE: 11/13/2024
DRAWN BY: BC

GENERAL ACCESSIBILITY DETAILS

G003

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4227 S MERIDIAN
SUITE E
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DESIGN TYPE: E1Y
PROJECT TYPE: CORPORATE NEW CD

8022

PROTOTYPE RELEASE: DCD:

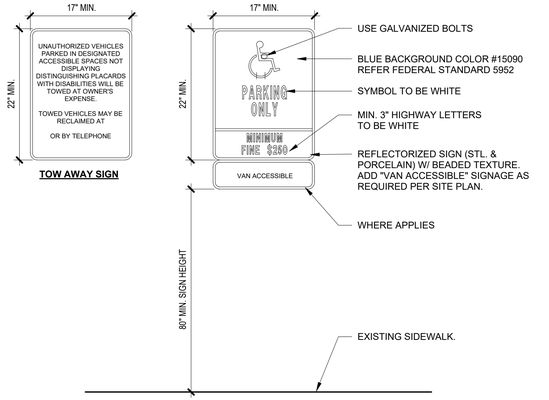
20123279 REGISTERED ARCHITECT
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11/25/2024

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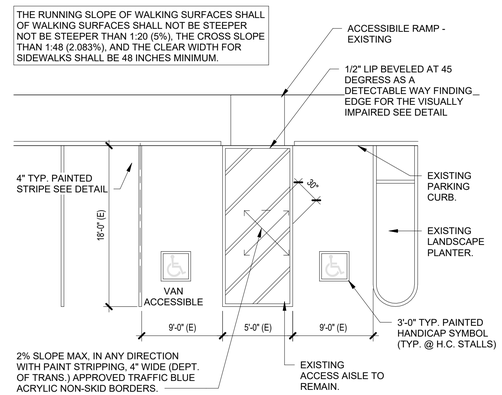


A4 SITE PLAN
N.T.S.

N



C1 BUILDING ACCESSIBLE PARKING AND SIGN DETAIL
N.T.S.



(A) PERPENDICULAR PARKING

B1 ACCESSIBLE PARKING AND RAMP DETAILS
N.T.S.

LEGEND

ACCESSIBLE PATH OF TRAVEL

GENERAL NOTES

SITE PLAN IS FOR REFERENCE ONLY - SCOPE OF ALTERATION / TENANT IMPROVEMENT DOES NOT INCLUDE ANY EXTERIOR WORK, NO SITE IMPROVEMENTS N.I.C.

1. MAXIIMUM PERMITTED SLOPE OF ACCESSIBLE PARKING SPACES IS 2% IN ANY DIRECTION.
2. WALKWAYS ALONG ACCESSIBLE ROUTES OF TRAVEL ARE AS FOLLOWS:
   - 2.1. CONTINUOUS ACCESSIBLE.
   - 2.2 HAVE MAXIMUM 1/2" CHANGES IN ELEVATION.
   - 2.3 ARE MINIMUM 48" IN WIDTH.
   - 2.4 WHERE NECESSARY TO CHANGE ELEVATION AT A SLOPE NOT EXCEEDING 5%

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SUITE E
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PROJECT TYPE: CORPORATE NEW CD
DESIGN TYPE: E1Y

8022

PROTOTYPE RELEASE: DCD:

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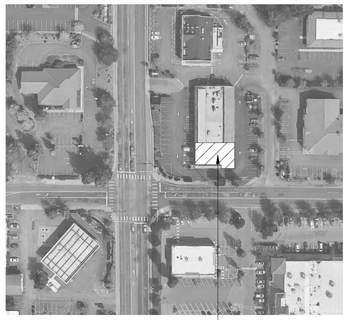
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SITE PLAN

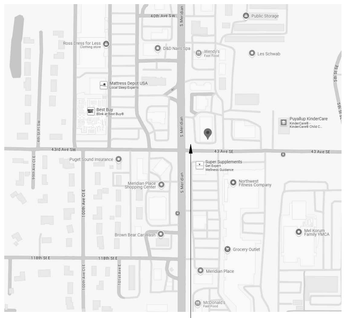
G099



C4 KEY PLAN

LEVEL 1 OF 1

N



S. MERIDIAN & 43RD AVE SE

B4 VICINITY MAP

PUYALLUP, WA

N

EGRESS ROUTE DISTANCES

COMMENTS	DISTANCE
LONGEST DIAGONAL TO OCCUPIED SPACE	84'-3"
EGRESS SEPARATION DISTANCE	67'-2"
POINT A TO EGRESS DOOR 1	65'-8"
POINT B TO EGRESS DOOR 2	56'-1"
POINT C TO EGRESS DOOR 2	67'-5"

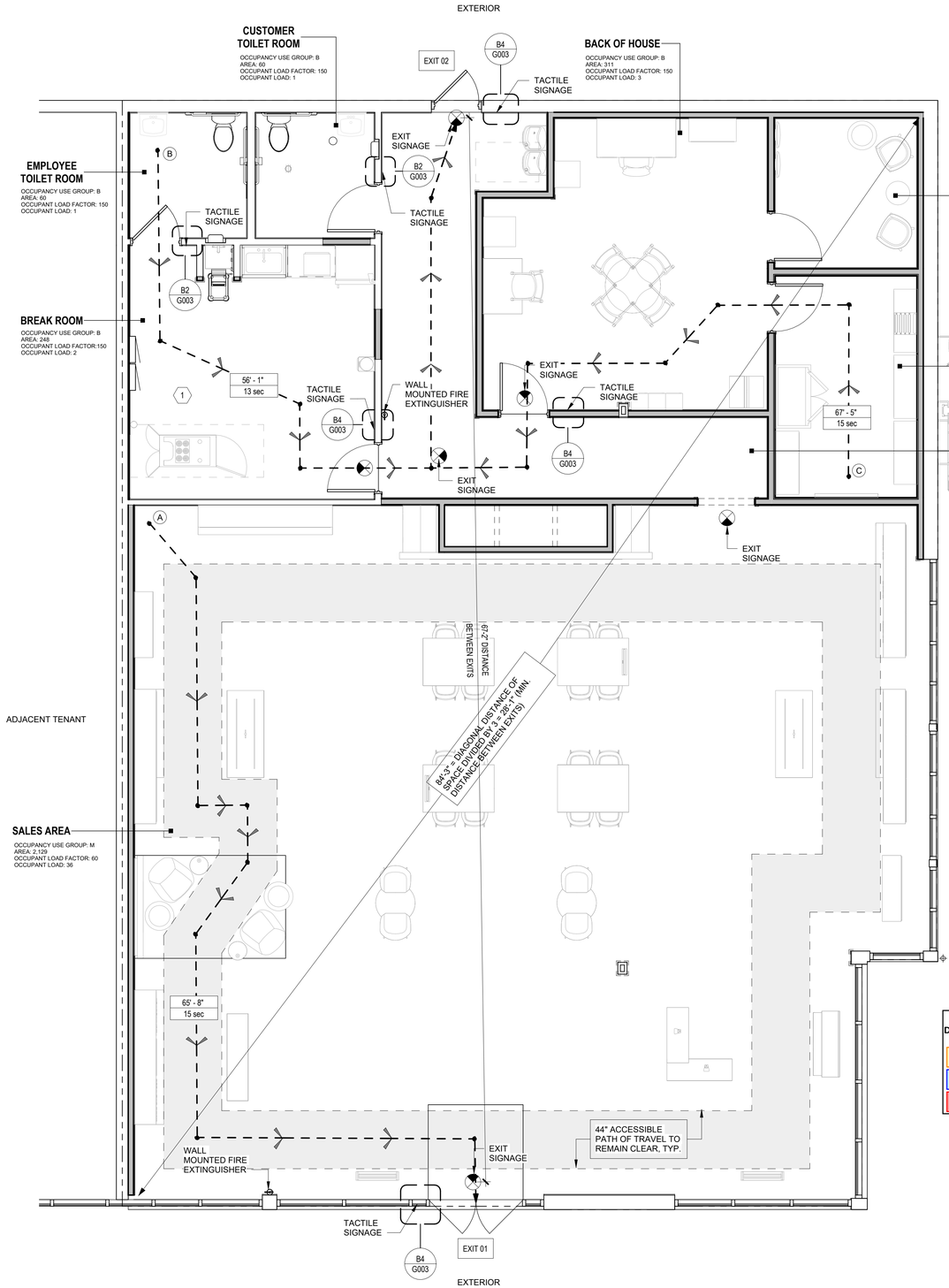
LEGEND

TRAVEL PATH

EXIT SIGNAGE

GENERAL NOTES

1. SEE SHEET GOO1 FOR CODE ANALYSIS.
2. SEE SHEET G002 FOR ACCESSIBILITY SIGNAGE.
3. ACCESSIBILITY ROUTE OF TRAVEL SLOPES NOT TO EXCEED RUNNING SLOPE OF 1:20 (5%) MAXIMUM AND CROSS SLOPE OF 1:50 (2%).
4. PROVIDE WALL MOUNTED FIRE EXTINGUISHER(S) PER FIRE MARSHAL'S INSTRUCTION.
5. PROVIDE WALL MOUNTED FIRE EXTINGUISHER(S) PER FIRE MARSHAL'S INSTRUCTIONS



A3 EGRESS FLOOR PLAN

1/4" = 1'-0"

N

0 2' 4' 8'

0 2"

1/4" = 1'-0"

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MAIN FLOOR EXIT PLAN

G101

GENERAL NOTES

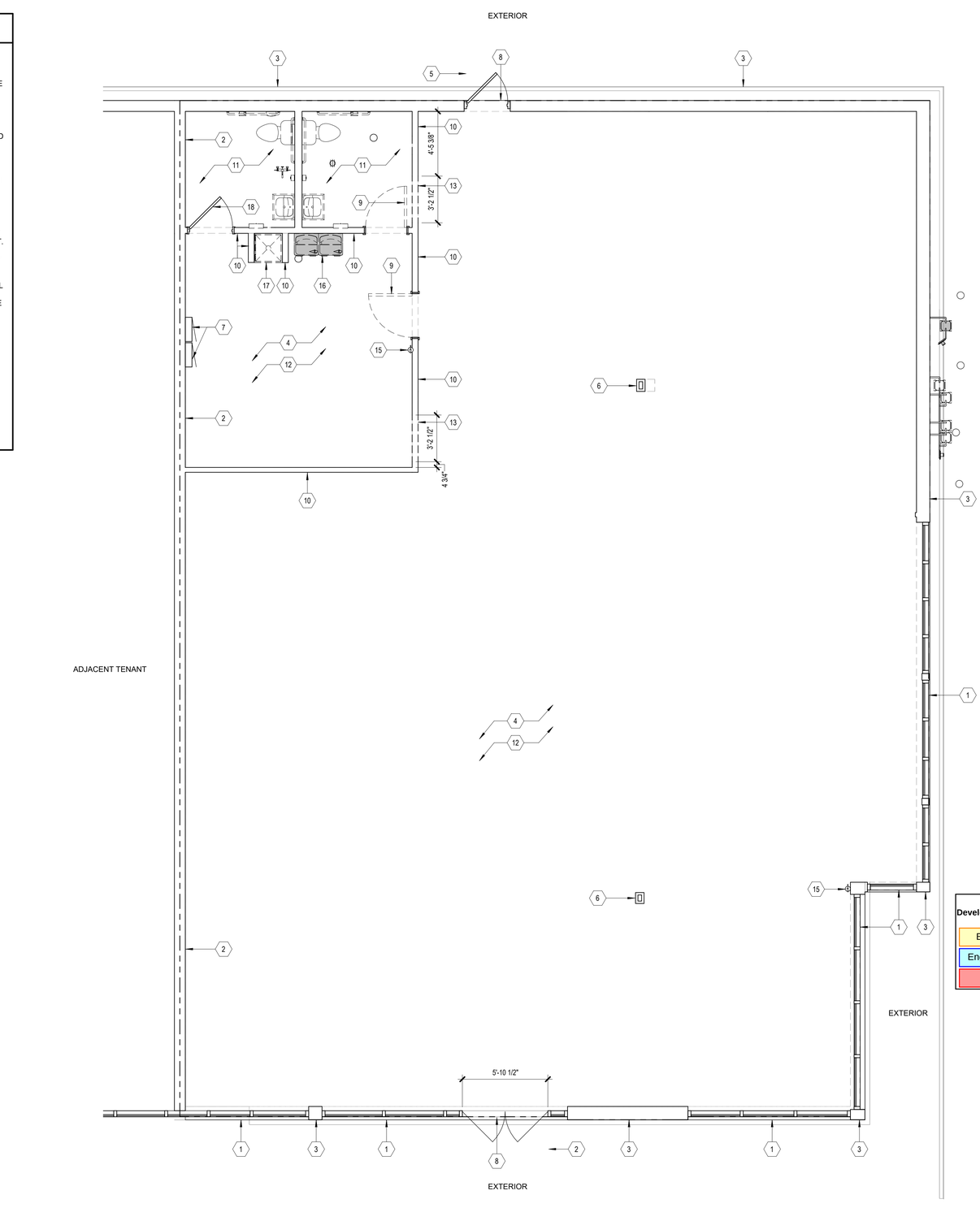
1. CHECK MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO DEMOLITION WITH REGARD TO UTILIZING ANY EXISTING WIRING, LINES, COMPONENTS, ETC.
2. PROVIDE TRASH CONTAINER AS REQUIRED AT LOCATION TO SUIT LANDLORD. REMOVE DEBRIS DAILY AND HAUL FROM THE SITE AT TIME TO SUIT LANDLORD.
3. NOTIFY ARCHITECTS IMMEDIATELY OF ANY DISCREPANCIES OR UNFORESEEN ITEMS NOT SHOWN ON DRAWINGS.
4. ALL REMOVED MATERIAL AND DEBRIS, NOT OTHERWISE DESIGNATED, BECOMES THE PROPERTY OF THE CONTRACTOR, WHO SHALL REMOVE IT FROM THE SITE.
5. G.C. SHALL NOT DEMOLISH AND LOAD BEARING WALLS OR CONSTRUCTION THAT WILL COMPROMISE THE STRUCTURAL INTEGRITY OF THE EXISTING SPACE. G.C. TO NOTIFY THE ARCHITECT IMMEDIATELY OF ANY STRUCTURAL CONCERNS DURING CONSTRUCTION.
6. EXISTING EQUIPMENT NOT BEING USED MUST BE COMPLETELY REMOVED/DISPOSED OF PROPERLY. NOTHING CAN BE ABANDONED ABOVE THE CEILING.
7. REMOVE EXISTING ACOUSTICAL CEILING GRID AND TILES, LIGHT FIXTURES, AND GYPSUM WALL BOARD SOFFITS AS SCHEDULED FOR DEMOLITION AND AS REQUIRED BY PARTITION DEMOLITION AND NEW CONSTRUCTION WORK. MAINTAIN EXISTING CEILING WIRE HANGERS FOR FUTURE USE.
8. REMOVE EXISTING ELECTRICAL DEVICES, OUTLETS, TELEPHONE AND DATA JACKS AND THERMOSTATS IN PARTITIONS SCHEDULED FOR DEMOLITION. MODIFY EXISTING WIRING AS REQUIRED BY NEW CONSTRUCTION OR, IF NOT REQUIRED, TERMINATE AND CAP OFF AT NEAREST PANEL OR SOURCE ABOVE CEILING.
9. REMOVE EXISTING FLOOR FINISHES SCHEDULED FOR REMOVAL AND AS REQUIRED BY PARTITION DEMOLITION AND NEW CONSTRUCTION. PREPARE EXISTING FLOOR SURFACE PER MANUFACTURER FOR INSTALLATION OF NEW FLOORING MATERIAL INDICATED IN THESE PLANS. G.C. MAY NEED TO PERFORM A MOISTURE TEST PRIOR TO ANY DEMOLITION OR NEW FLOORING INSTALLATION. NEWLY REPLACED OR LIKE-NEW FINISHES MAY REMAIN AT THE DISCRETION OF THE CONSTRUCTION PM. G.C. TO VERIFY PRIOR TO REMOVAL. PROTECT ALL NEW FLOOR FINISHES UNTIL FINAL CLEANING.
10. REMOVE ALL CONSTRUCTION DEBRIS FROM AREA. REPAIR ALL ADJACENT DAMAGED SURFACES, AS NECESSARY. PREPARE ALL DAMAGED SURFACES FOR FINISHES AS SCHEDULED OR REFINISH TO MATCH EXISTING.
11. PROVIDE A SMOOTH, NEAT, AND CONTINUOUS APPEARANCE WHERE DEMOLITION WORK MEETS ADJACENT EXISTING WORK. REMOVED EXISTING FINISHES AS REQUIRED TO PROVIDE NEAT, STRAIGHT SEAMS AND TRANSITIONS BETWEEN EXISTING AND MATCHING NEW FINISHES.
12. IN ACCORDANCE WITH LOCAL CODES, REPLACE ALL FIRE SUPPRESSION AND FIRE ALARM EQUIPMENT DISTURBED BY DEMOLITION WORK, MAINTAIN INTEGRITY OF FIRE SUPPRESSION AND FIRE ALARM SYSTEMS. VERIFY IN FIELD.
13. IN THE CASE THAT THE EXISTING CABLE LINE, PHONE LINE AND BLOCK, T-1 LINE AND DATA CABLING PRESENT, G.C. SHALL SALVAGE AND REWORK TO FACILITATE NEW INSTALLATION.
14. G.C. SHALL CONSTRUCT A BARRICADE WALL AS REQUIRED. G.C. SHALL COORDINATE REQUIREMENTS WITH MALL PROPERTY MANAGEMENT.
15. BARRICADE GRAPHICS SHALL BE PROVIDED BY MALL UNLESS OTHERWISE REQUESTED. G.C. SHALL ENGAGE T-MOBILE'S SIGN VENDOR FOR BARRICADE GRAPHICS AS REQUIRED.
16. FIRE SPRINKLER SYSTEM TO REMAIN - G.C. TO RE-WORK/ MODIFY SYSTEM AS REQUIRED FOR NEW CONSTRUCTION. VERIFY IN FIELD.
17. WHERE REQUIRED BY THE LOCAL JURISDICTION, G.C. SHALL PREPARE A "RECYCLING PLAN" TO DIVERT DEBRIS FOR RECYCLING, G.C. SHALL KEEP RECORDS OF DIVERTED MATERIAL ASS REQUIRED. G.C. TO VERIFY REQUIREMENTS WITH JURISDICTION AND TO MALL OPERATIONS/ LANDLORD WHERE APPLICABLE.
18. REMOVE ALL EXISTING INTERIOR PARTITIONS, DOORS, AND DOOR FRAMES SCHEDULED FOR DEMOLITION. REMOVE ALL MILLWORK, EQUIPMENT, ETC. THAT IS ATTACHED TO PARTITIONS SCHEDULED FOR DEMOLITION.
19. REMOVE EXISTING HVAC CEILING DIFFUSERS AND RETURN GRILLES AS SCHEDULED FOR DEMOLITION AND AS REQUIRED BY PARTITION DEMOLITION AND NEW CONSTRUCTION. MODIFY EXISTING DUCTWORK AS REQUIRED BY NEW CONSTRUCTION, OR IF NOT REQUIRED, TERMINATE AND CAP OFF SUPPLY AND RETURN DUCTS AT NEAREST SOURCE ABOVE CEILING.
20. REMOVE ALL EXISTING PLUMBING FIXTURES, FITTINGS, AND PIPING AS SCHEDULED FOR DEMOLITION AND AS REQUIRED BY PARTITION DEMOLITION AND NEW CONSTRUCTION, OR IF NOT REQUIRED, TERMINATE AND CAP OFF AT WET STACK.
21. REMOVAL/ RELOCATION OF ALL CEILING EQUIPMENT (TYCO, FIRE ALARM, SPRINKLER, SHOPPER TRAK, ETC.) MUST BE PERFORMED BY THE REQUIRED VENDORS. T-MOBILE'S VENDOR TO RELOCATE SECURITY CAMERAS AS NEEDED PER NEW FIXTURE LAYOUT.
22. G.C. TO CONFIRM FLOOR SLAB IS SMOOTH AND LEVEL AND NOTIFY CONSTRUCTION PM OF ANY DISCREPANCIES.
23. MAINTAIN EXISTING EXITS, EMERGENCY LIGHTING, AND ILLUMINATION MEANS OF EGRESS DURING DEMOLITION AND CONSTRUCTION AS REQUIRED BY FHA AND ALL GOVERNING CODES.
24. SAW-CUTTING SHOWN ON PLANS IS AN INDICATION OF THE INTENDED WORK FOR BIDDING AND COORDINATION PURPOSES ONLY. IT IS NOT INTENDED FOR BE AS SPECIFICATION OR METHOD.
25. WHEN EXISTING MECHANICAL SYSTEM IS TO REMAIN, G.C. TO CLEAN DUCTWORK, DIFFUSER, AND REPLACE HVAC AIR FILTERS AFTER CONSTRUCTION AND CLEANUP IS COMPLETE PRIOR TO TURNING PROJECT OVER TO T-MOBILE.
26. DURING CONSTRUCTION, THE G.C. IS TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A WITHIN A 75 FOOT TRAVEL DISTANCE TO ALL PORTIONS OF THE SPACE.

SCOPE SUMMARY

1. GENERAL CONTRACTOR AND/OR SUBCONTRACTORS SHALL REVIEW THE EXISTING FACILITY TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED TO INSTALL THE NEW WORK, A WRITTEN OUTLINE OF ALL REQUIRED DEMOLITION SHALL BE SUBMITTED TO T-MOBILE DESCRIBING THE FOLLOWING (BUT NOT LIMITED TO):
   a. CONDITION OF EXISTING POWER PANELS AND TRANSFORMERS; FEASIBILITY FOR RELOCATION AND REFURBISHING, OR NEED REPLACEMENT DUE TO AGE OR EXISTING CONDITION.C
   b. ONDITION OF EXISTING GYPSUM BOARD ON EXISTING DEMISING WALLS AND RECOMMENDATION OR WHETHER TO REMOVE EXISTING OR REUSE TO BE DETERMINED IN FIELD.
   c. SUMMARIZE RECOMMENDATIONS FOR REUSE OF EXISTING MATERIALS, EQUIPMENT, AND ACCESSORIES. ONCE REFURBISHED TO A LIKE-NEW CONDITION, ITEMIZE THE CREDIT TO THE CONTRACT.
   d. TENANT G.C. SHALL NOTIFY THE ARCHITECT OF ANY UN-NOTED EXISTING CONDITION WHICH CONFLICTS WITH THE PROJECT REQUIREMENTS AND MAY REQUIRE MODIFICATION, RELOCATION, OR REMOVAL TO COMPLETE THE PROJECT WITHIN 24 HOURS SO THAT THE NECESSARY DRAWING REVISIONS MAY BE INCORPORATED INTO THE PROJECT REQUIREMENTS.
   e. IN ADDITION TO THE ABOVE, REFER TO GENERAL DEMOLITION NOTES INDICATED IN SPECIFICATION DIVISION 2-EXISTING CONDITIONS.
   f. CONDITION OF EXISTING MECHANICAL SYSTEM; FEASIBILITY OF REUSING, RELOCATION, OR REFURBISHING EXISTING EQUIPMENT AND DUCTWORK; AND RECOMMENDATION OF REPLACEMENT, IF NECESSARY, PRIOR TO BID. SEE MECHANICAL DRAWINGS FOR SCOPE OF MECHANICAL WORK.

KEY NOTES

	NOTES
1	EXISTING STOREFRONT SYSTEM, GLAZING, AND DOOR(S) TO REMAIN.
2	EXISTING DEMISING WALL TO REMAIN. PATCH AND REPAIR AS REQUIRED.
3	EXISTING EXTERIOR WALL AND/OR CONSTRUCTION TO REMAIN. PATCH AND REPAIR AS REQUIRED.
4	PREPARE EXISTING CONCRETE FLOOR SURFACE FOR INSTALLATION OF NEW FLOORING MATERIALS AS INDICATED IN THESE PLANS. SEE SPECIFICATIONS FOR ADDITIONAL FLOOR PREPARATION NOTES.
5	EXISTING SERVICE DOOR TO REMAIN. SEE DOOR SCHEDULE FOR NEW HARDWARE.
6	EXISTING STRUCTURAL COLUMN TO REMAIN. REMOVE ALL EXISTING FINISHES AND PREPARE FOR NEW FINISH AS INDICATED IN THESE PLANS.
7	EXISTING ELECTRICAL PANELS(S) TO REMAIN. SEE ELECTRICAL DRAWINGS.
8	EXISTING THRESHOLD TO REMAIN. REPLACE IF IT EXCEEDS 1/2" IN HEIGHT.
9	EXISTING INTERIOR DOOR TO BE REMOVED AND SALVAGED FOR RE-USE. REFER TO DOOR SCHEDULE FOR NEW HARDWARE SPECS.
10	EXISTING INTERIOR WALL PARTITION TO REMAIN. PATCH AND REPAIR AS REQUIRED. PREPARE FOR NEW FINISHES AS INDICATED IN THESE PLANS.
11	EXISTING TOILET ROOM, PLUMBING FIXTURES, ACCESSORIES, FLOORING, CEILING SYSTEM, AND LIGHT FIXTURES TO BE REMOVED IN THEIR ENTIRETY.
12	EXISTING CEILING SYSTEM, LIGHT FIXTURES, AND DIFFUSERS TO BE REMOVED IN THEIR ENTIRETY.
13	PORTION OF EXISTING INTERIOR WALL PARTITION TO BE REMOVED. PATCH AND REPAIR AS REQUIRED. PREPARE FOR NEW FINISHES AS INDICATED IN THESE PLANS.
15	EXISTING WALL MOUNTED FIRE EXTINGUISHER TO BE REMOVED. REFER TO G101 FOR NEW FIRE EXTINGUISHER LOCATIONS.
16	EXISTING DRINKING FOUNTAIN TO BE REMOVED IN IT'S ENTIRETY.
17	EXISTING FLOOR MOP SINK TO BE REMOVED. PREPARE FOR NEW FLOOR MOP SINK SPEC TO BE INSTALLED. EXISTING WATER HEATER SHELF TO REMAIN. NEW WATER HEATER TO BE INSTALLED ABOVE MOP SINK. REFER TO PLUMBING SHEETS FOR ADDITIONAL INFORMATION.
18	EXISTING INTERIOR DOOR TO REMAIN. G.C. TO PREP DOOR FOR NEW FINISHES AND HARDWARE. REFERT TO FINISH AND DOOR SCHEDULE FOR ADDITIONAL INFORMATION.



A3 DEMOLITION FLOOR PLAN
1/4" = 1'-0"

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PUYALLUP, WA 98373

DESIGN TYPE: E1Y

PROJECT TYPE: CORPORATE NEW CD

8022

PROTOTYPE RELEASE: DCD:

20123279 REGISTERED ARCHITECT
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STATE OF WASHINGTON

11/25/2024

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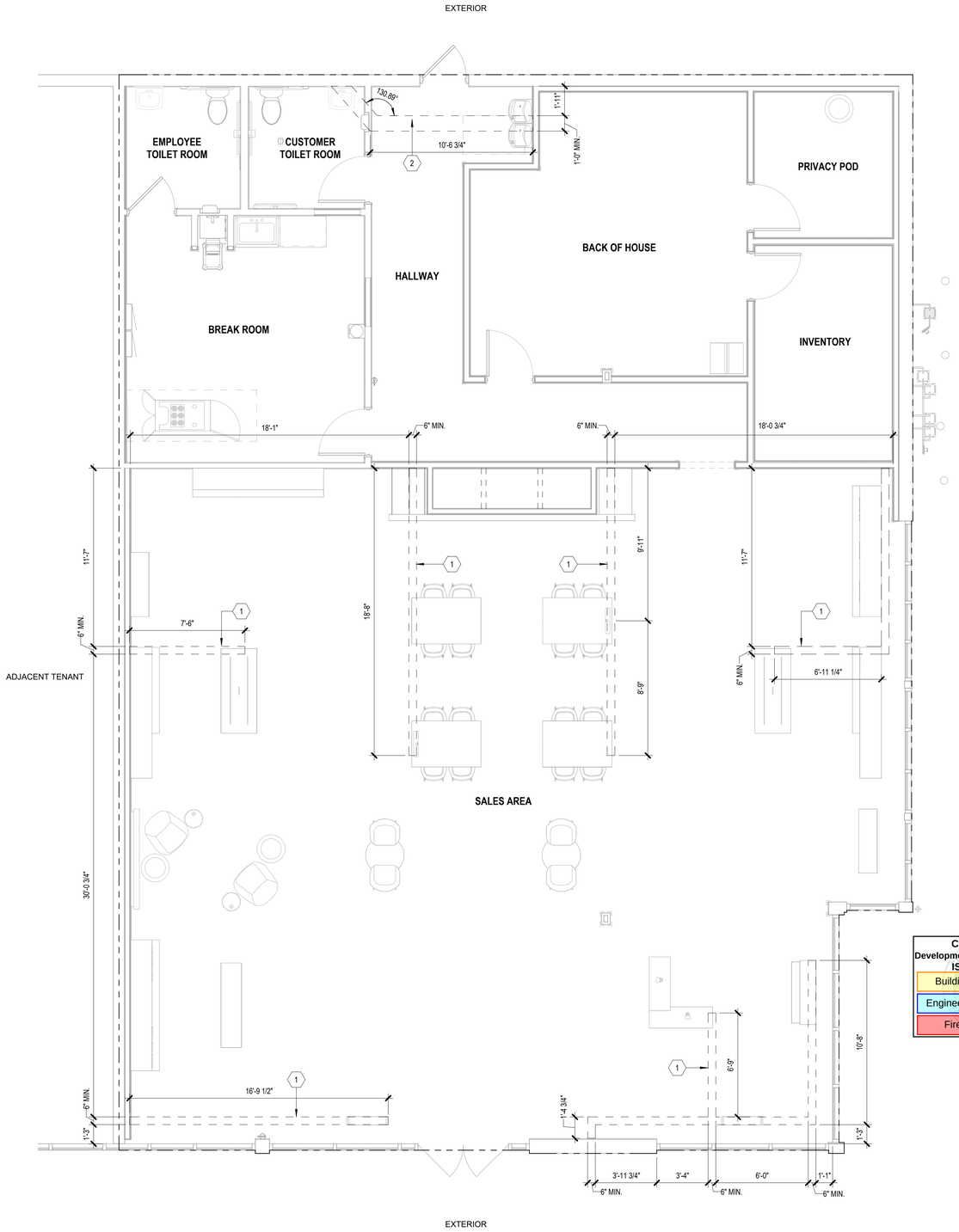
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DEMOLITION FLOOR PLAN

AD101



A3 SAW-CUTTING DEMOLITION PLAN

1/4" = 1'-0"

KEY NOTES

SLAB PENETRATIONS SHALL BE MADE WITH PROPER LOCATION AND X-RAY IDENTIFICATION OF EXISTING REBAR AND / OR POST TENSION CABLES.

	NOTES
1	DIMENSIONS TO GIVE LOCATION OF TRENCH/CORE DRILL. SEE SHEET A501 FOR ADDITIONAL TRENCH/SLAB INFORMATION. SEE SHEET E101 FOR CONDUIT DETAILS AND LOCATION.
2	SAW CUT EXISTING CONCRETE SLAB FOR NEW SUPPLY/WASTE TO DRINKING FOUNTAIN. GC SHALL XRAY SLAB TO LOCATE ANY REBAR AND SHALL OBTAIN LANDLORD APPROVAL PRIOR TO COMMENCING ANY WORK. ALL ROUGH-INS TO BE DETERMINED IN FIELD WITH PLUMBING SUB-CONTRACTOR USING EXACT PLUMBING FIXTURE SPECIFICATIONS. REPAIR CONCRETE SLAB AS REQUIRED, SEE DETAIL A2/A501 AND PLUMBING SHEETS FOR MORE INFORMATION.

GENERAL NOTES

1. CHECK MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO DEMOLITION WITH REGARD TO UTILIZING ANY EXISTING WIRING, LINES, COMPONENTS, ETC.
2. NOTIFY ARCHITECTS IMMEDIATELY OF ANY DISCREPANCIES OR UNFORESEEN ITEMS NOT SHOWN ON THE DRAWINGS.
3. ALL REMOVED MATERIAL AND DEBRIS, NOT OTHERWISE DESIGNATED, BECOMES THE PROPERTY OF THE CONTRACTOR, WHO SHALL REMOVE IT FROM THE SITE.
4. SAW-CUTTING SHOWN ON PLANS IS AN INDICATION OF THE INTENDED WORK FOR BIDDING AND COORDINATION PURPOSES ONLY. IT IS NOT INTENDED TO BE FOR SPECIFICATION OR METHOD.

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DESIGN TYPE: E1Y

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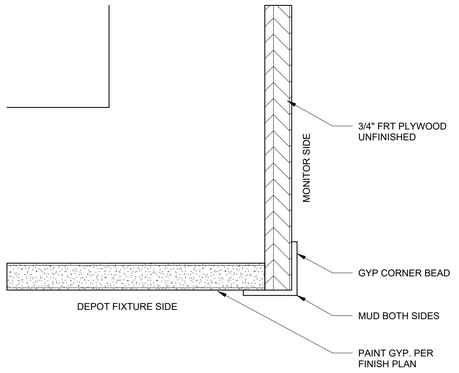
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SAW-CUTTING DEMOLITION PLAN

AD131



C4 Partition Corner Connection
6" = 1'-0"

SHEET SYMBOLS

1 2 3 4 — SEE PARTITION DESIGNATION FOR CONFIGURATION, CONSTRUCTION AND INSULATION DETAILS	EXISTING AREA N.I.C.
EXISTING DOOR. PATCH AND REPAIR TO "AS-NEW" CONDITION AS NECESSARY	EXISTING SLAB LEAVE-OUT
NEW DOOR AS SCHEDULED	X — DOOR NUMBER. SEE SHEET A 511 FOR DETAILS AND SHEET A611 FOR DOOR SCHEDULE
LINETYPE INDICATES ACCESSIBLE CLEARANCE	

GENERAL NOTES

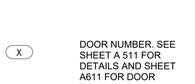
1. G.C. TO FIELD VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECTS IMMEDIATELY OF ANY DISCREPANCIES OR UNFORESEEN ITEMS NOT SHOWN ON DRAWING.
2. FOR ALL PARTITIONED CONNECTION DETAILS (TOP AND BOTTOM) SEE SHEET A510.
3. ALL ANGLED WALLS ARE 45°, 90°, OR 135° U.O.N.
4. MAINTAIN FIRE RESISTANCE RATING FOR ALL TENANT DEMISING WALLS.
5. PROVIDE A WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS (UTILITY SINK, KITCHENETTE, DRINKING FOUNTAIN, TOILET ROOM, ETC.)
6. G.C. TO COORDINATE LOCATION OF ELECTRICAL FLOOR BOXES WITH ELECTRICAL DRAWINGS AND FIXTURE PLAN.
7. WHERE EXISTING INSULATION IS REMOVED OR MISSING, PATCH AND REPLACE INSULATION TO MATCH EXISTING CONDITIONS AND MAINTAIN REQUIRED R-VALUES.
8. ALL DOORS TO BE LOCATED 4" FROM PERPENDICULAR WALL UNLESS OTHERWISE NOTED. ALL DOOR DIMENSIONED TO FINISHED OPENING OF DOOR.
9. ALL DIMENSIONS ARE FROM FACE OR GYPSUM BOARD TO FACE OF GYPSUM BOARD UNLESS OTHERWISE NOTED.
10. SLAB PENETRATIONS SHALL BE MADE WITH PROPER LOCATION AND X-RAY IDENTIFICATIONS OF EXISTING REBAR AND/OR POST TENSION CABLES.

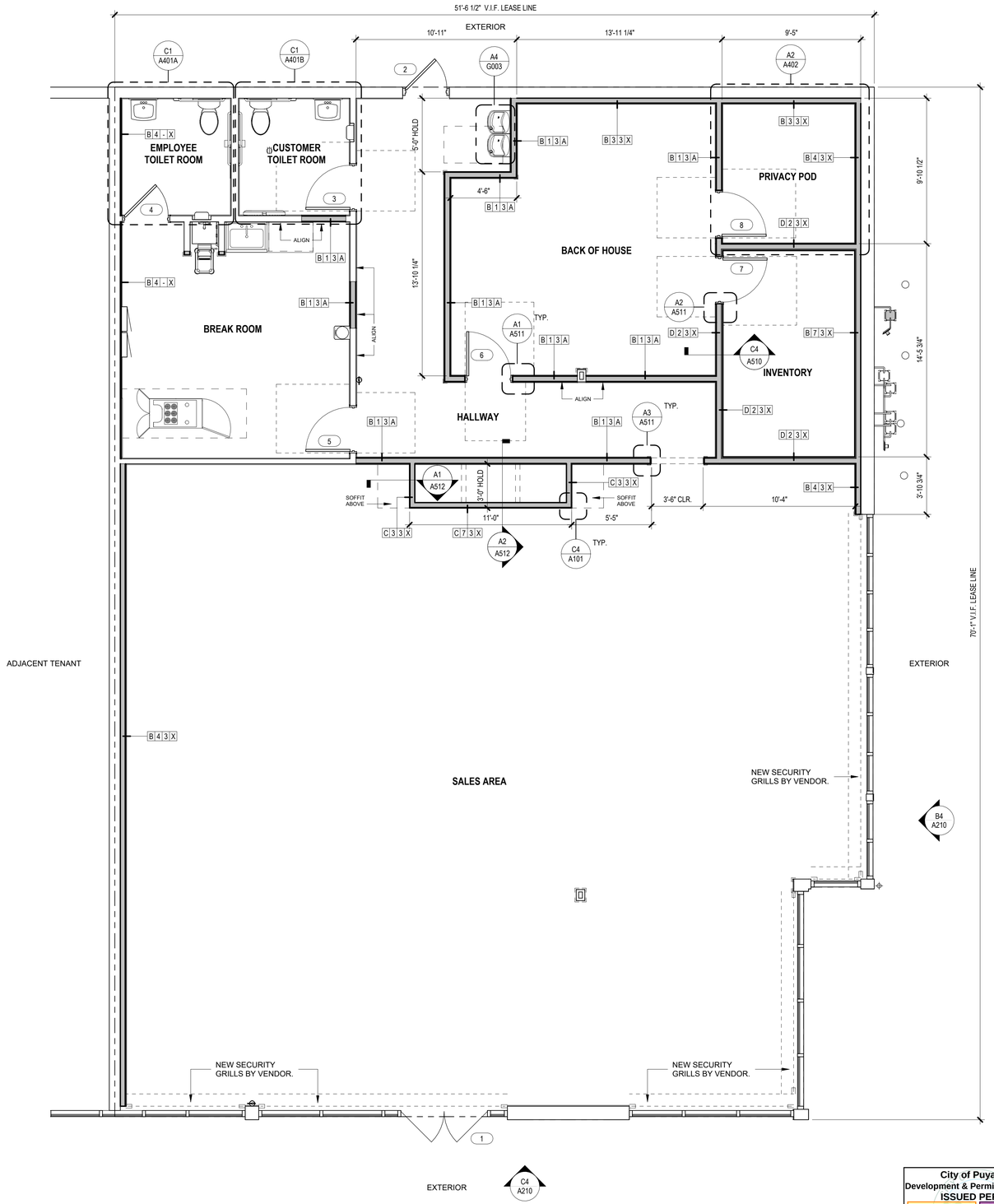
PARTITION DESIGNATION

THE PARTITION-TYPE DESIGNATION OR WALL-TYPE DESIGNATION IS A FOUR-UNIT CODE THAT INDICATES THE CONFIGURATION, CONSTRUCTION, AND INSULATION OF THE PARTITION, AS FOLLOWS:

1. PARTITION TYPES
2. CONSTRUCTION OF PARTITION
3. STUD SIZING
4. INSULATION

SEE SHEET A510 FOR DETAILS





A3 CONSTRUCTION FLOOR PLAN
1/4" = 1'-0"

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##	DESCRIPTION:	DATE

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DRAWN BY: BC

CONSTRUCTION FLOOR PLAN

A101

FINISH SUMMARY

SYMBOL	DESCRIPTION
B1##	BASE - RUBBER
B2##	BASE - WOOD
F0##	FLOORING - WOOD
F2##	FLOORING - VINYL TILE - SALES AREA
F3##	FLOORING - CERAMIC / PORCELAIN TILE
F4##	FLOORING - VINYL - BOH, HALLWAY, TELECOM, OTHER ENTRANCES
F5##	FLOORING - CARPET
F9##	FLOORING - WALK-OFF MATS - VESTIBULE, SALES AREA
P1##	PAINT
W1##	WALLCOVERING - WET AREA SURROUND
W2##	CORNER GUARD

ALL EQUIPMENT, FINISHES, FIXTURES, FURNITURE, AND GRAPHICS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SEE A### SERIES SHEETS FOR ALL SCHEDULES.

QUANTITY

CORNER GUARDS TO BE INSTALLED MY G.C.

SYMBOL	DESCRIPTION	QUANITITY
W 204	CORNER GUARD - BACK OF HOUSE -	7
XW 205	CORNER GUARD - FRONT OF HOUSE - WHITE	9

KEY NOTES

	NOTES
1	PAINT 4" WIDE SAFETY YELLOW STRIP AND WORDS "NO STORAGE" ON THE FLOOR.
2	G.C. TO PAINT ACCENT WALL(S) P103 "PEONY". COORDINATE WITH CONSTRUCTION PM AND RETAIL STORE MANAGER FOR EXACT LOCATION. ALL OTHER WALLS TO BE PAINTED P111 "PURE WHITE".
3	G.C. TO PAINT ACCENT WALL IN PRIVACY POD P117. ALL OTHER WALLS TO BE PAINTED P111. SEE A601 FOR ADDITIONAL INFORMATION.
4	EXISTING STRUCTURAL COLUMN. PAINT P111. XW205 ON ALL CORNERS.
6	LEVEL 5 FINISH TO PREPARE FOR W107 WALL COVERING. SEE A201 FOR ADDITIONAL SALES FLOOR BACK WALL FINISHES.
7	NEW WALL TO BE FINISHED WITH P113 "JUNEBERRY".
8	6'-6" WIDE AREA TO NOT RECEIVE WALL BASE TO ENSURE FIXTURE INSTALLATION IS PRECISE.

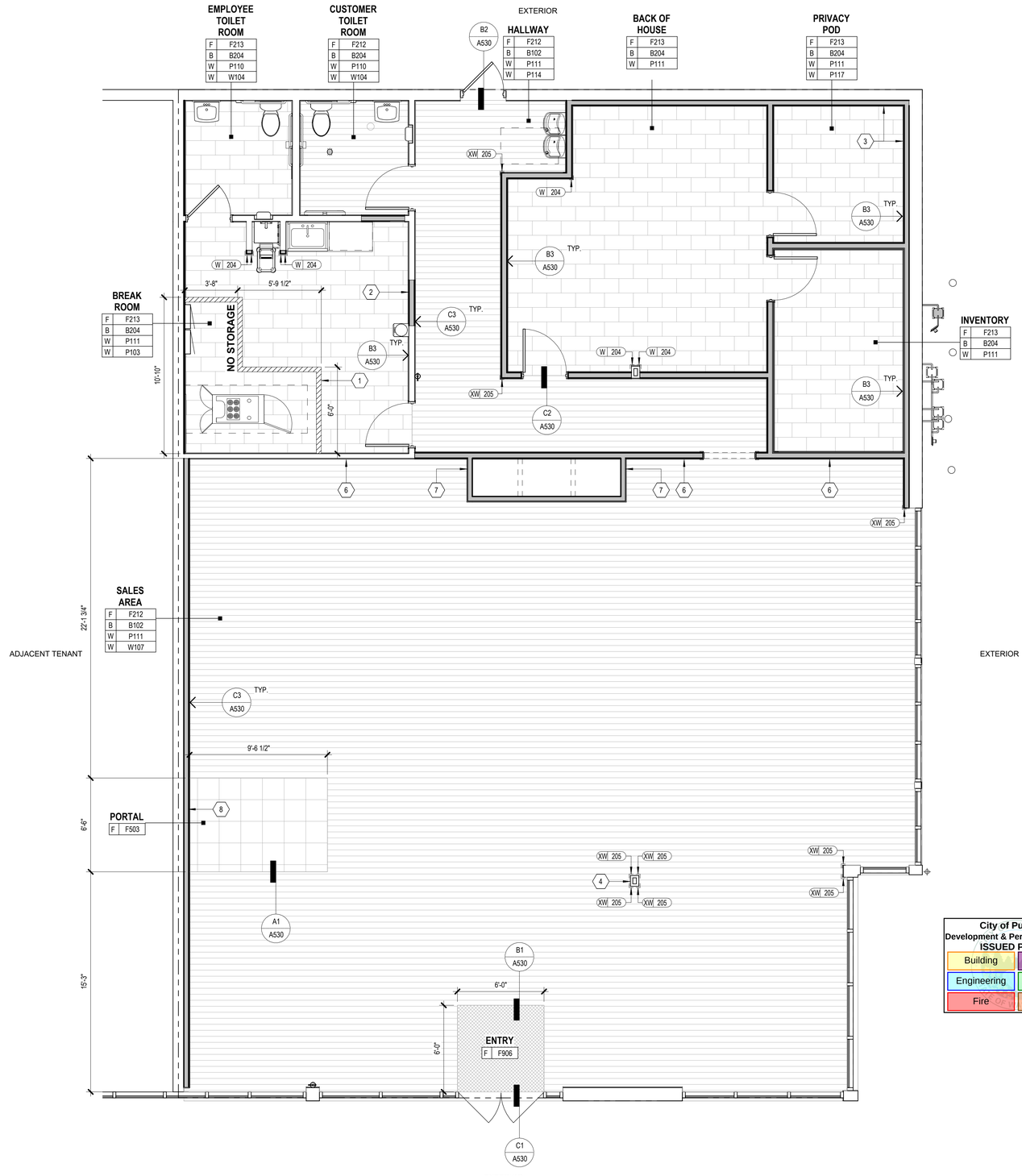
SHEET SYMBOLS

EXISTING AREA N.I.C.

F XXXX FINISH TAG

GENERAL NOTES

1. PREPARE EXISTING FLOOR SURFACE PER MANUFACTURER SPECIFICATIONS FOR INSTALLATION OF NEW FLOORING MATERIALS AS INDICATED IN THESE PLANS. SEE SPECIFICATIONS AND MANUFACTURER INSTRUCTIONS FOR ADDITIONAL FLOOR INSTALLATION NOTES. CLEAN AND FINISH FLOOR PER MANUFACTURER INSTRUCTIONS.
2. FOR FLOOR FINISHES, COMPLY WITH THESE RECOMMENDATIONS AT MINIMUM OR NOT LESS THAN MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO MANUFACTURER'S INSTALLATION SPECIFICATIONS FOR ALL FINISHES INCLUDING FLOOR LEVELING REQUIREMENTS, EXPANSION SPACES, VAPOR BARRIERS, UNDERLAYMENT, SITE CONDITIONS, ETC.
   A. SUBFLOOR PREPARATION: GRIND HIGH SPOTS AND FILL LOW SPOTS TO PRODUCE A MAXIMUM 1/8" (3MM) DEVIATION IN ANY DIRECTION WHEN CHECKED WITH A 10' (3-M) STRAIGHT EDGE.
   B. EXPANSION: PROVIDE EXPANSION SPACE AT WALLS AND OTHER OBSTRUCTIONS AND TERMINATIONS OF FLOORING OF NOT LESS THAN DIRECTED BY MANUFACTURER.
   C. PROTECTION: PROVIDE FLOOR PROTECTION UP UNTIL FINAL CLEANING.
3. CENTER FLOORING WITHIN EACH ROOM. FIRST PLANK SHOULD BE CENTERED BETWEEN THE DEMISING WALLS AND PLACED SO THAT THE PARTIAL PLANKS ARE NEAR THE DEMISING WALLS AND UNDERNEATH WALL MOUNTED FIXTURES UNLESS OTHERWISE NOTED.
4. G.C. TO INSTALL SALES AREA FLOOR FINISHES WALL TO U.N.O.



A3 FINISH FLOOR PLAN

1/4" = 1'-0"

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FINISH FLOOR PLAN

A111

BAFFLE COUNTS

BAFFLES TO BE SUPPLIED BY FIXTURE VENDOR, INSTALLED BY GC PER FIXTURE VENDOR INSTRUCTIONS.

Length	Count
3'-0"	2
4'-0"	20
8'-0"	164

KEY NOTES

	NOTES
1	GC TO INSTALL UNISTRUT AND THREADED ROD FOR FIXTURE INSTALLATION. SEE STRUCTURAL DRAWING FOR ADDITIONAL INFORMATION.
2	FOR REFERENCE ONLY: BAFFLE UNISTRUT AND BAFFLES TO BE PROVIDED BY FIXTURE VENDOR, GC TO COORDINATE LOCATIONS WITH VENDOR SHOP DRAWINGS FOR INSTALLATION. NOTIFY ARCHITECT AND PROJECT DESIGN MANAGER OF ANY DISCREPANCIES.
3	GC TO PROVIDE ESCUTCHEON RING AROUND ANY ALL-THREAD THAT PENETRATES CEILING TILES TO PREVENT TILE DAMAGE. MATCH CEILING COLOR.

GENERAL NOTES

1. G.C. TO VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECTS IMMEDIATELY OF ANY DISCREPANCIES OR UNFORESEEN ITEMS NOT SHOWN ON DRAWINGS, INCLUDING CEILING HEIGHT.
2. UNLESS OTHERWISE NOTED ON PLANS, ALL CEILING EQUIPMENT SHOULD FOLLOW THE LAYOUT GUIDE ON THIS SHEET.
3. G.C. SHALL FIELD VERIFY EXISTING EGRESS LIGHTING AND PROVIDE EMERGENCY LIGHT FIXTURES AS REQUIRED BY THE FIRE MARSHALL.
4. REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION ON SCOPE AND LOCATION OF MECHANICAL ITEMS.
5. REFER TO VENDOR INSTALLATION GUIDE AND MANUFACTURER INSTRUCTIONS FOR FIXTURE INSTALLATION.
6. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPES AND LIGHT FIXTURE SCHEDULE.

SHEET SYMBOLS

EXISTING AREA N.I.C.

ADJUSTABLE LIGHTING

GYP BOARD CEILING

2' X 2' LIGHTING

T	X###
F	X###
H	X###

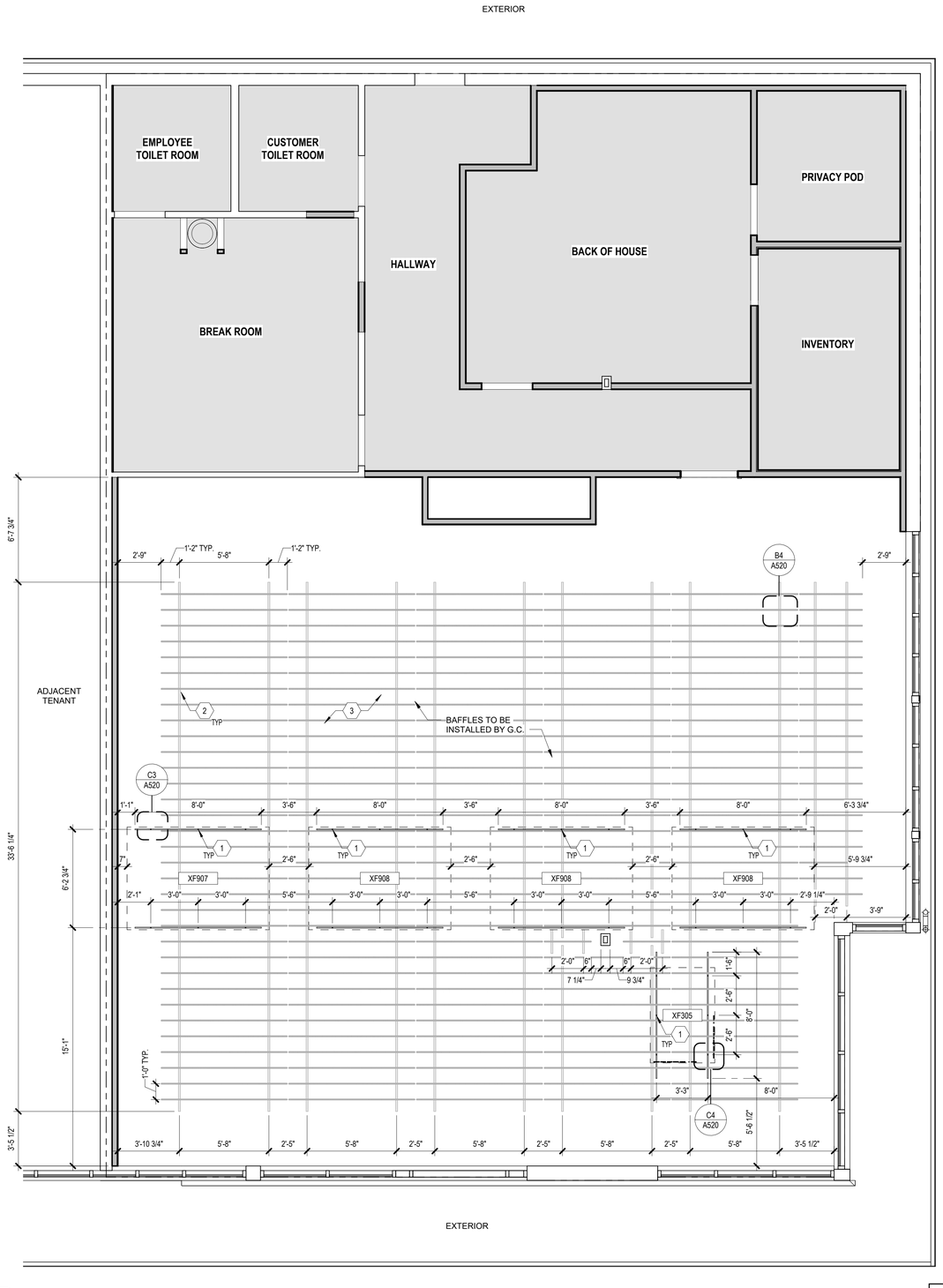
ROOM TAG
CEILING TYPE
CEILING FINISH
CEILING HEIGHT

VENT LIGHT COMBO

EMERGENCY LIGHTING

EXIT SIGNAGE

EMERGENCY LIGHTING NOTED WITH AN EM TAG. SEE ELECTRICAL DRAWINGS.



A3 CEILING SUPPORT PLAN
1/4" = 1'-0"

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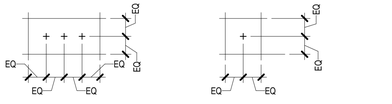
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CEILING SUPPORT PLAN

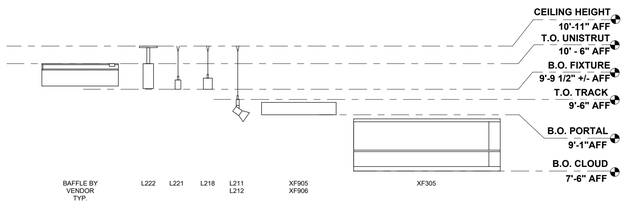
A121



1 **2X4 CEILING GRID**
CENTER SPINKLERS AND CEILING MOUNTED EQUIPMENT

2 **2X2 CEILING GRID OR SECOND LOOK TILES**
CENTER SPINKLERS AND CEILING MOUNTED EQUIPMENT

C4 EQUIPMENT PLACEMENT IN GRID
1/4" = 1'-0"



B4 TYPICAL CEILING ELEMENT HEIGHTS
1/2" = 1'-0"

GENERAL NOTES

1. G.C. TO VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECTS IMMEDIATELY OF ANY DISCREPANCIES OR UNFORESEEN ITEMS NOT SHOWN ON DRAWINGS, INCLUDING CEILING HEIGHT.
2. UNLESS OTHERWISE NOTED ON PLANS, ALL CEILING EQUIPMENT SHOULD FOLLOW THE LAYOUT GUIDE ON THIS SHEET.
3. G.C. SHALL FIELD VERIFY EXISTING EGRESS LIGHTING AND PROVIDE EMERGENCY LIGHT FIXTURES AS REQUIRED BY THE FIRE MARSHALL.
4. REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION ON SCOPE AND LOCATION OF MECHANICAL ITEMS.
5. REFER TO VENDOR INSTALLATION GUIDE AND MANUFACTURER INSTRUCTIONS FOR FIXTURE INSTALLATION.
6. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPES AND LIGHT FIXTURE SCHEDULE.

FINISH SUMMARY

SYMBOL	DESCRIPTION
C1##	CEILING - LAY IN TILE
GYP	GYP BOARD CEILING, SEE DETAILS ON SHEET A541
P1##	PAINT

ALL EQUIPMENT, FINISHES, FIXTURES, FURNITURE, AND GRAPHICS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, SEE A600 SERIES SHEETS FOR ALL SCHEDULES.

SHEET SYMBOLS

EXISTING AREA N.I.C.

GYP BOARD CEILING

T	X###
F	X###
H	X###

ROOM TAG
CEILING TYPE
CEILING FINISH
CEILING HEIGHT

EMERGENCY LIGHTING

ADJUSTABLE LIGHTING

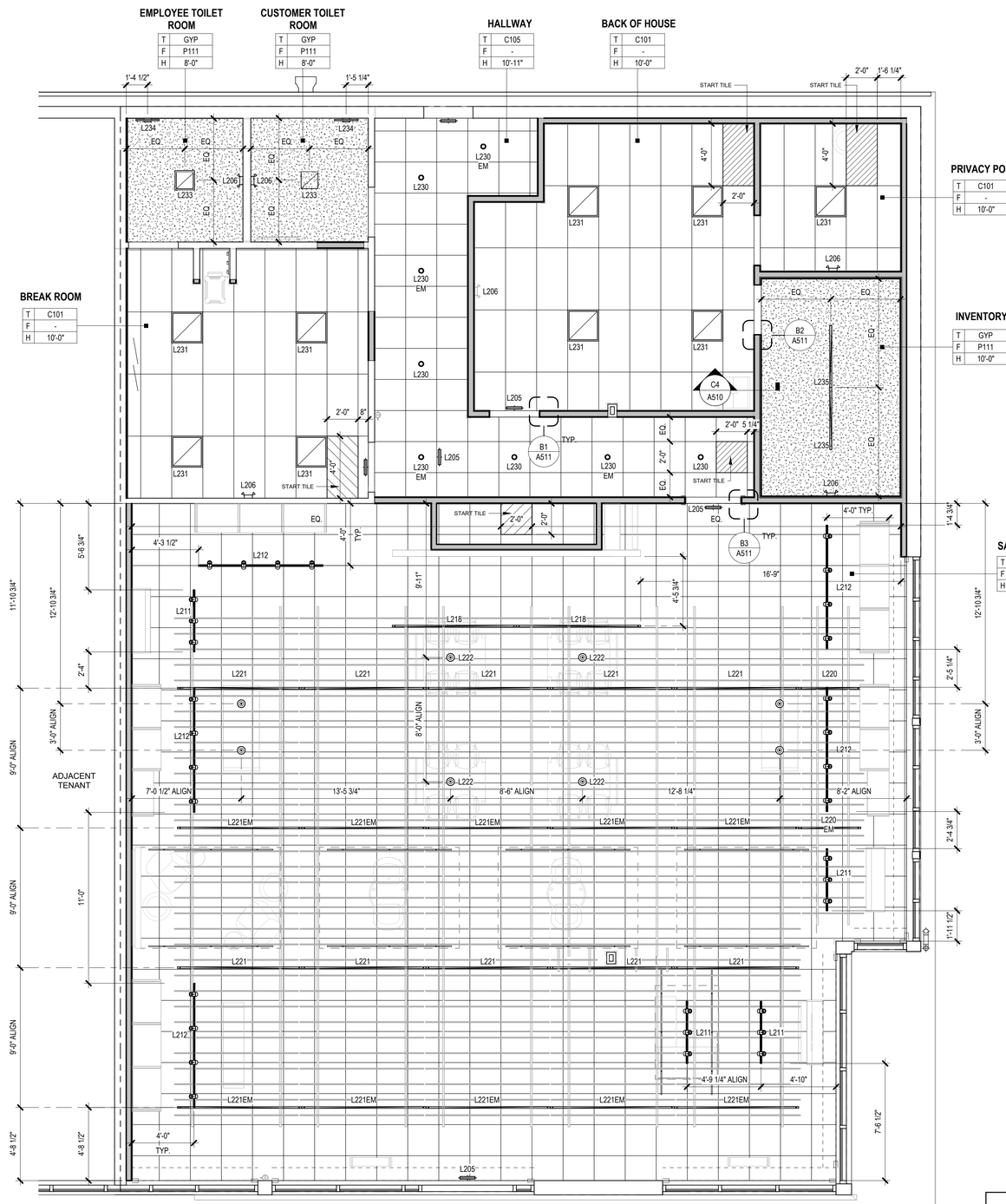
2' X 2' LIGHTING

VENT LIGHT COMBO

EXIT SIGNAGE

EMERGENCY LIGHTING NOTED WITH AN EM TAG. SEE ELECTRICAL DRAWINGS.

EXTERIOR



A3 REFLECTED CEILING PLAN
1/4" = 1'-0"

EXTERIOR

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

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SOUTH MERIDIAN & 43RD AVE SE
4227 S MERIDIAN
SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y
PROJECT TYPE: CORPORATE NEW CD

8022

PROTOTYPE RELEASE: DCD:

20123279 REGISTERED ARCHITECT
WILLIAM LOUIS PALUCH
STATE OF WASHINGTON

11/25/2024

FUZION
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SUITE 200
SCOTTSDALE, AZ 85255
design@fuzionad.com
(480) 463-4764
www.fuzionad.com

PRCTI20241902

##	DESCRIPTION:	DATE

DATE: 11/13/2024
DRAWN BY: BC

REFLECTED CEILING PLAN

A131

GENERAL NOTES

1. G.C. TO FIELD VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECTS IMMEDIATELY OF ANY DISCREPANCIES OR UNFORESEEN ITEMS NOT SHOWN ON DRAWINGS.
2. G.C. TO VERIFY THAT ADA COUNTERTOPS COMPLY WITH C4/G003.
3. FIXTURES FURNISHED BY T-MOBILE AND INSTALLED BY G.C. OR FIXTURE VENDOR. REFER TO FIXTURE MANUFACTURER INSTRUCTIONS FOR ALL ATTACHMENTS TO WALL AND FLOOR PROVIDE ALL BLOCKING AND ANCHORS AS REQUIRED.
4. DIMENSIONS ON THIS SHEET ARE FOR FIXTURE LOCATIONS. G.C. TO COORDINATE FLOOR POWER AND/OR POWER POLE LOCATIONS WITH DIMENSIONS ON ELECTRICAL SHEETS.
5. RELOCATE ALL THERMOSTATS AND OTHER WALL MOUNTED DEVICES AS PER LOCAL CODE AS REQUIRED PER NEW FIXTURE LAYOUT. COORDINATE WITH CONSTRUCTION PM/ ARCHITECT.
6. SEE SHEET A621 FOR FIXTURE SCHEDULES. SCHEDULES WILL CLARIFY ANY EXISTING EQUIPMENT TO REMAIN VERSUS NEW FIXTURES TO BE INSTALLED.

SHEET SYMBOLS

EXISTING FIXTURES. NEW AND/OR EXISTING FURNITURE

EXISTING AREA N.I.C.

NEW FIXTURES

M_Tag
F_Tag
D_Tag

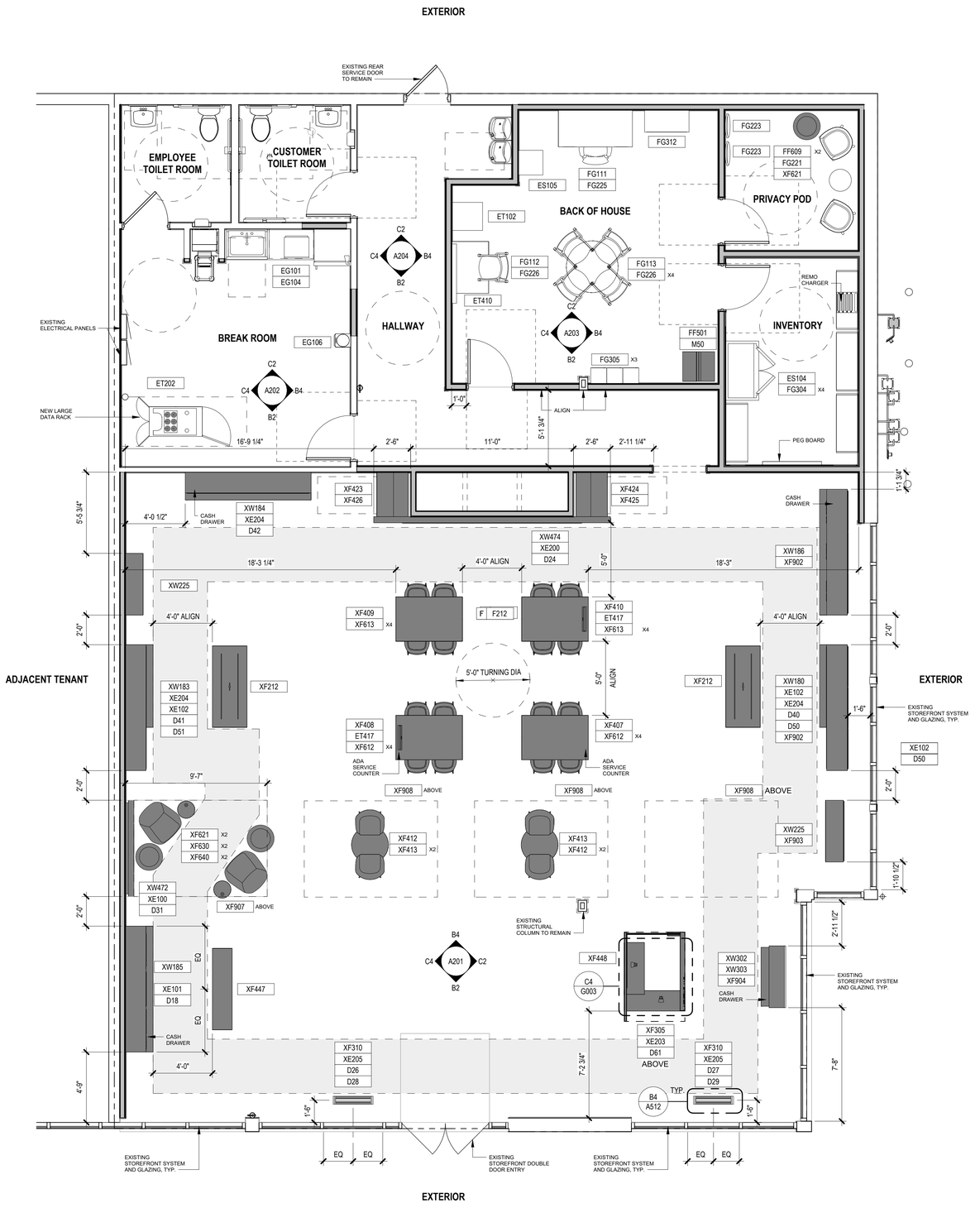
MERCHANDISING CONTENT TAG
FIXTURE TAG
DIGITAL CONTENT TAG

LINETYPE INDICATES ACCESSIBLE CLEARANCE

FIXTURE, FURNITURE AND EQUIPMENT LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
EG1##	EQUIPMENT GENERAL	FG1##	FURNITURE GENERAL - TABLE
ES1##	EQUIPMENT SECURITY	FG2##	FURNITURE GENERAL - SEATING
ET1##	EQUIPMENT TECHNOLOGY	FG3##	FURNITURE GENERAL - STORAGE
ET2##	EQUIPMENT TELCO COMMUNICATIONS	FG5##	FURNITURE GENERAL - WALL MOUNTED
FF1##	FLOOR FIXTURE - SALES COUNTER	FG6##	FURNITURE GENERAL - KITCHENETTE
FF2##	FLOOR FIXTURE - FEATURE TABLE	FW1##	FIXTURE WALL - DISPLAY WALL
FF3##	FLOOR FIXTURE - DIGITAL MONITOR	FW2##	FIXTURE WALL - ACCESSORY
FF4##	FLOOR FIXTURE - CONSULTATION TABLE	FW3##	FIXTURE WALL - SYSTEM WALL
FF5##	FLOOR FIXTURE - 2 SIDED FRAME	FW4##	FIXTURE WALL - DIGITAL MONITOR
FF6##	FLOOR FIXTURE - SEATING	FW5##	FIXTURE WALL - WALL GRAPHIC
FF9##	FLOOR FIXTURE - POWER POLE		
TOTAL NUMBER OF POS		0	
TOTAL NUMBER OF CASH DRAWER LOCATIONS		4	

ALL EQUIPMENT, FINISHES, FIXTURES, FURNITURE, AND GRAPHICS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SEE A600 SERIES SHEETS FOR ALL SCHEDULES.



A3 FURNITURE, FIXTURE, AND EQUIPMENT PLAN
1/4" = 1'-0"

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ISSUED PERMIT
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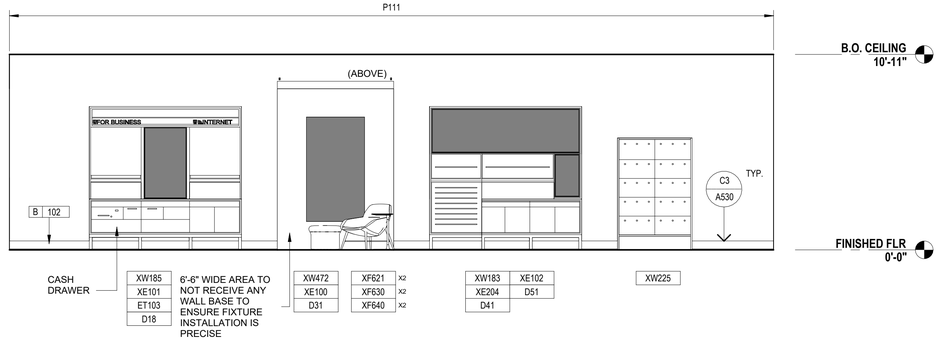
PRCTI20241902

##	DESCRIPTION:	DATE

DATE: 10/28/2024
DRAWN BY: BC

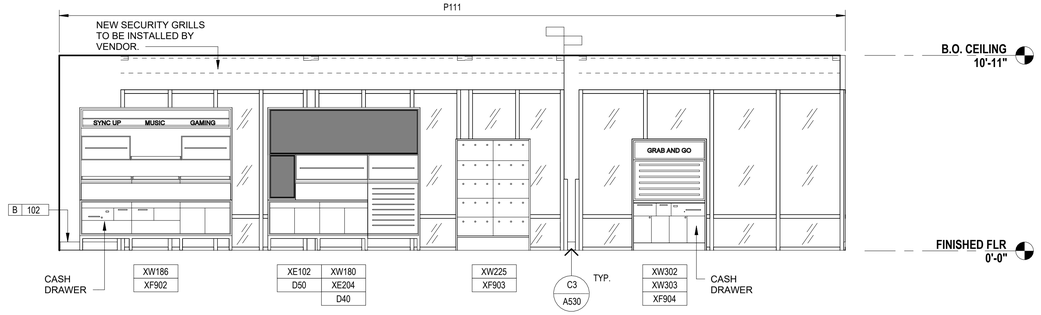
FURNITURE, FIXTURE, AND EQUIPMENT PLAN

A141



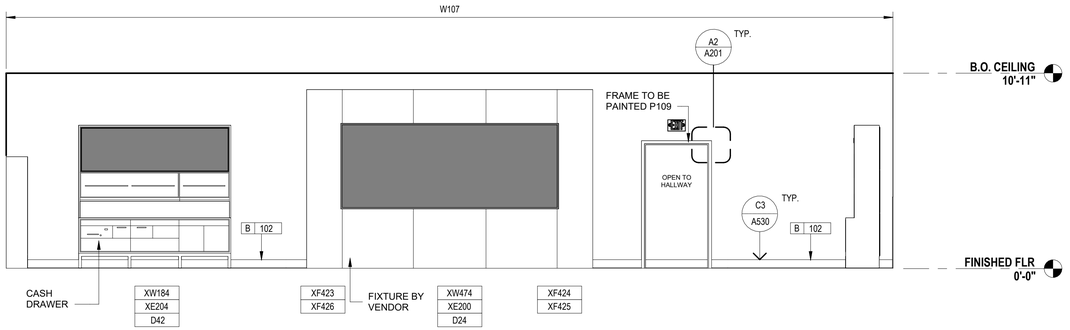
C4 INTERIOR ELEVATION

1/4" = 1'-0"



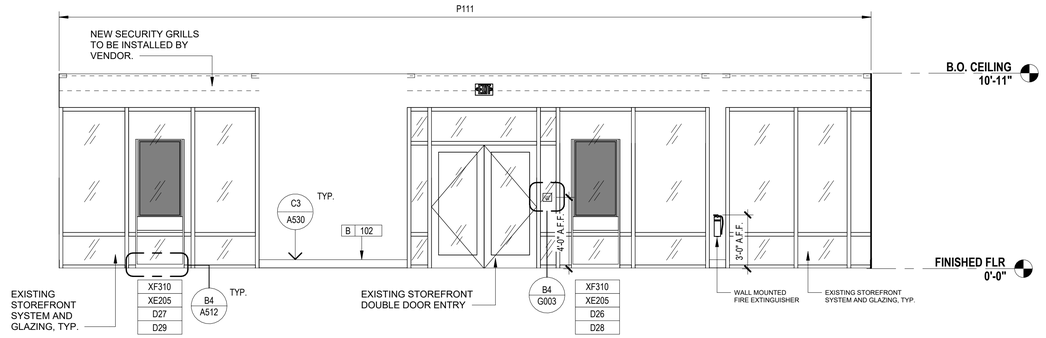
C2 INTERIOR ELEVATION

1/4" = 1'-0"



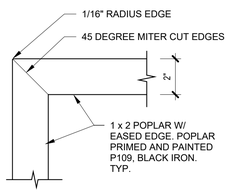
B4 INTERIOR ELEVATION

1/4" = 1'-0"



B2 INTERIOR ELEVATION

1/4" = 1'-0"



A2 CASED OPENING CORNER ELEVATION DETAIL

3" = 1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

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SHEET SYMBOLS

M_Tag
F_Tag
D_Tag

MERCHANDISING CONTENT TAG
FIXTURE TAG
DIGITAL CONTENT TAG

SEE A141 FOR FIXTURE AND EQUIPMENT SUMMERY

F XXXX — FINISH TAGS - SEE A111 FOR FINISH SUMMERY

? — MATERIAL TAG

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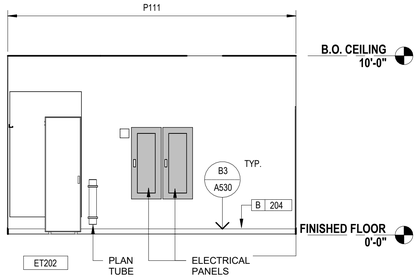
PRCTI20241902

##	DESCRIPTION:	DATE

DATE: 11/13/2024
DRAWN BY: BC

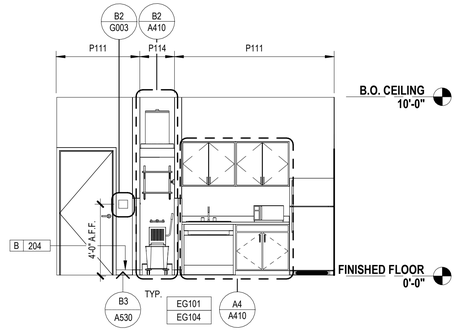
INTERIOR ELEVATIONS - SALES AREA

A201



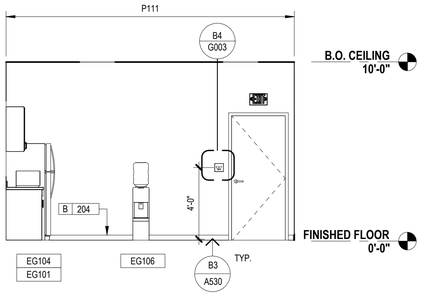
C4 INTERIOR ELEVATION

1/4" = 1'-0"



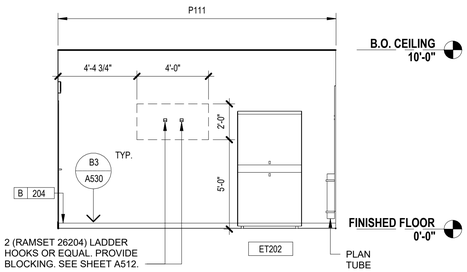
C2 INTERIOR ELEVATION

1/4" = 1'-0"



B4 INTERIOR ELEVATION

1/4" = 1'-0"



B2 INTERIOR ELEVATION

1/4" = 1'-0"

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Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

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SHEET SYMBOLS

M_Tag
F_Tag
D_Tag

MERCHANDISING CONTENT TAG
FIXTURE TAG
DIGITAL CONTENT TAG

SEE A141 FOR FIXTURE AND EQUIPMENT SUMMERY

F XXXX — FINISH TAGS - SEE A111 FOR FINISH SUMMERY

? — MATERIAL TAG

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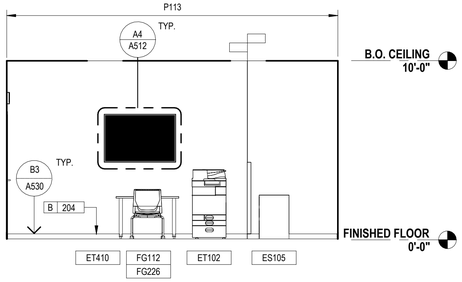
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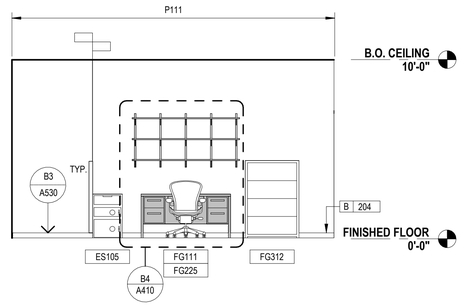
DATE: 11/13/2024
DRAWN BY: BC

INTERIOR ELEVATIONS - BREAK ROOM

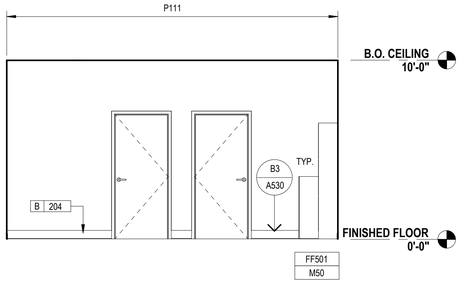
A202



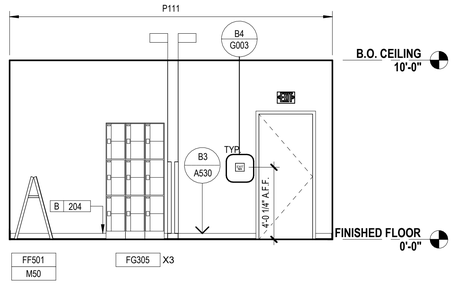
C4 INTERIOR ELEVATION
1/4" = 1'-0"



C2 INTERIOR ELEVATION
1/4" = 1'-0"



B4 INTERIOR ELEVATION
1/4" = 1'-0"



B2 INTERIOR ELEVATION
1/4" = 1'-0"

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SHEET SYMBOLS

M_Tag
F_Tag
D_Tag

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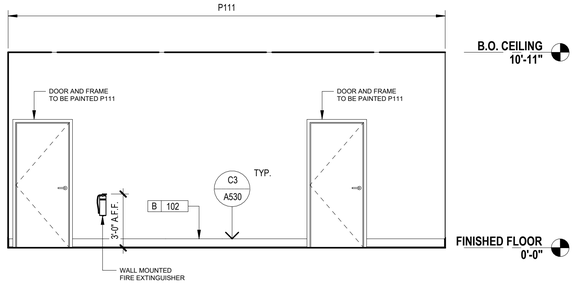
PRCTI20241902

##	DESCRIPTION:	DATE

DATE: 11/13/2024
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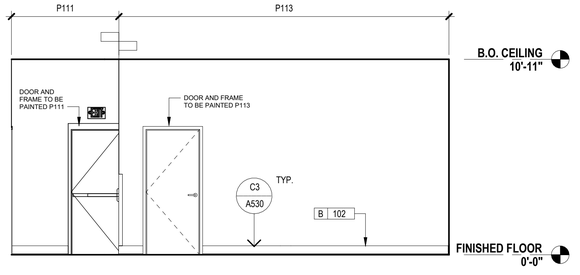
INTERIOR ELEVATIONS - BACK OF HOUSE

A203



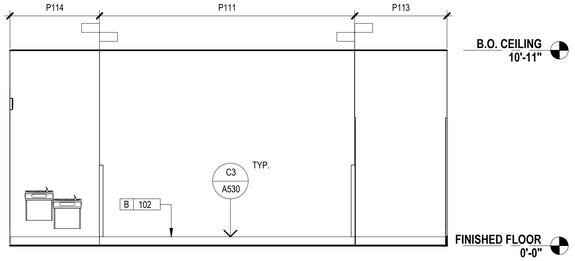
C4 INTERIOR ELEVATION

1/4" = 1'-0"



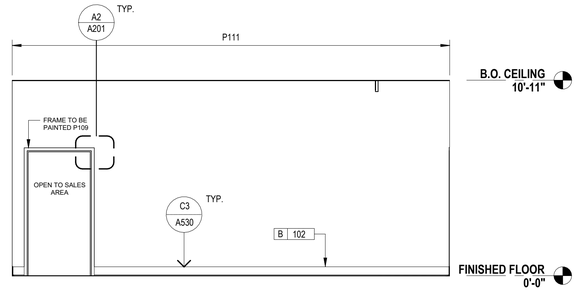
C2 INTERIOR ELEVATION

1/4" = 1'-0"



B4 INTERIOR ELEVATION

1/4" = 1'-0"



B2 INTERIOR ELEVATION

1/4" = 1'-0"

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8. FLOOR FIXTURE DIMENSIONS ARE FROM FINISH WALL TO FIXTURE UNLESS OTHERWISE NOTED.
9. G.C. TO PROVIDE THE REQUIRED FIXTURED BLOCKING FOR ALL WALL MOUNTED ELEMENTS.

SHEET SYMBOLS

M_Tag
F_Tag
D_Tag

MERCHANDISING CONTENT TAG
FIXTURE TAG
DIGITAL CONTENT TAG

SEE A141 FOR FIXTURE AND EQUIPMENT SUMMERY

F XXXX — FINISH TAGS - SEE A111 FOR FINISH SUMMERY

? — MATERIAL TAG

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SOUTH MERIDIAN & 43RD AVE SE

4227 S MERIDIAN
SUITE E
PUYALLUP, WA 98373

PROJECT TYPE: CORPORATE NEW CD
DESIGN TYPE: E1Y

8022

PROTOTYPE RELEASE: DCD:

20123279 REGISTERED ARCHITECT
WILLIAM LOUIS PALUCH
STATE OF WASHINGTON

11/25/2024

FUZION

20551 N. PIMA ROAD
SUITE 200
SCOTTSDALE, AZ 85255

design@fuzionad.com
(480) 463-4764
www.fuzionad.com

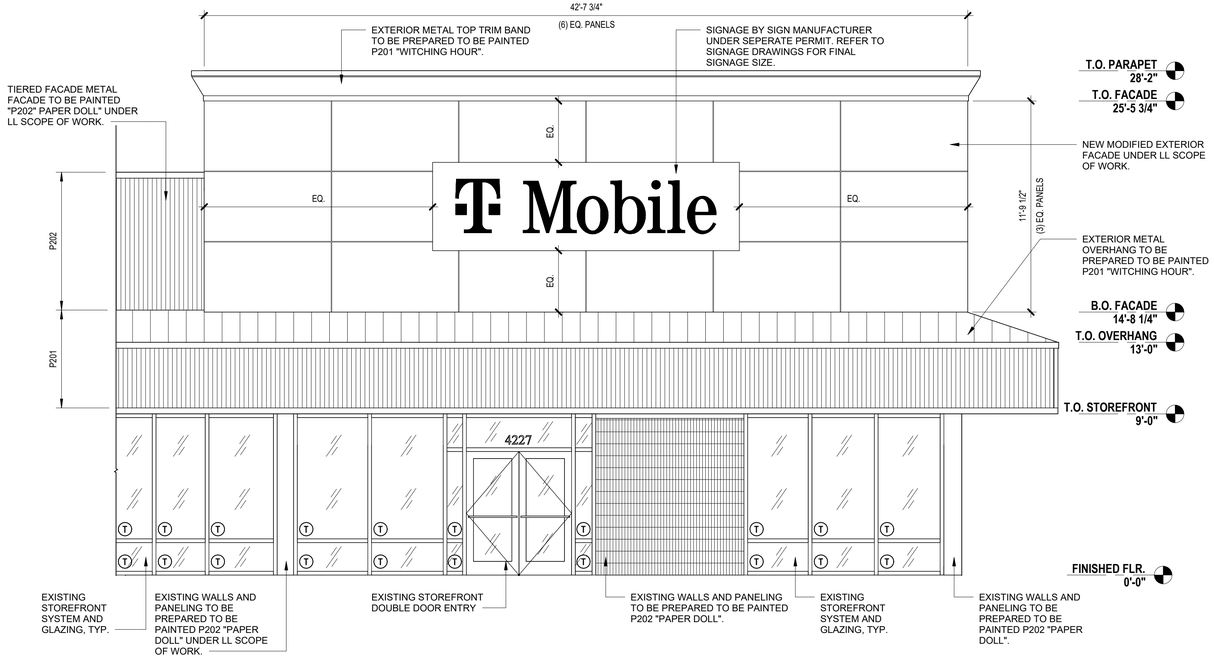
PRCTI20241902

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DATE: 11/13/2024
DRAWN BY: BC

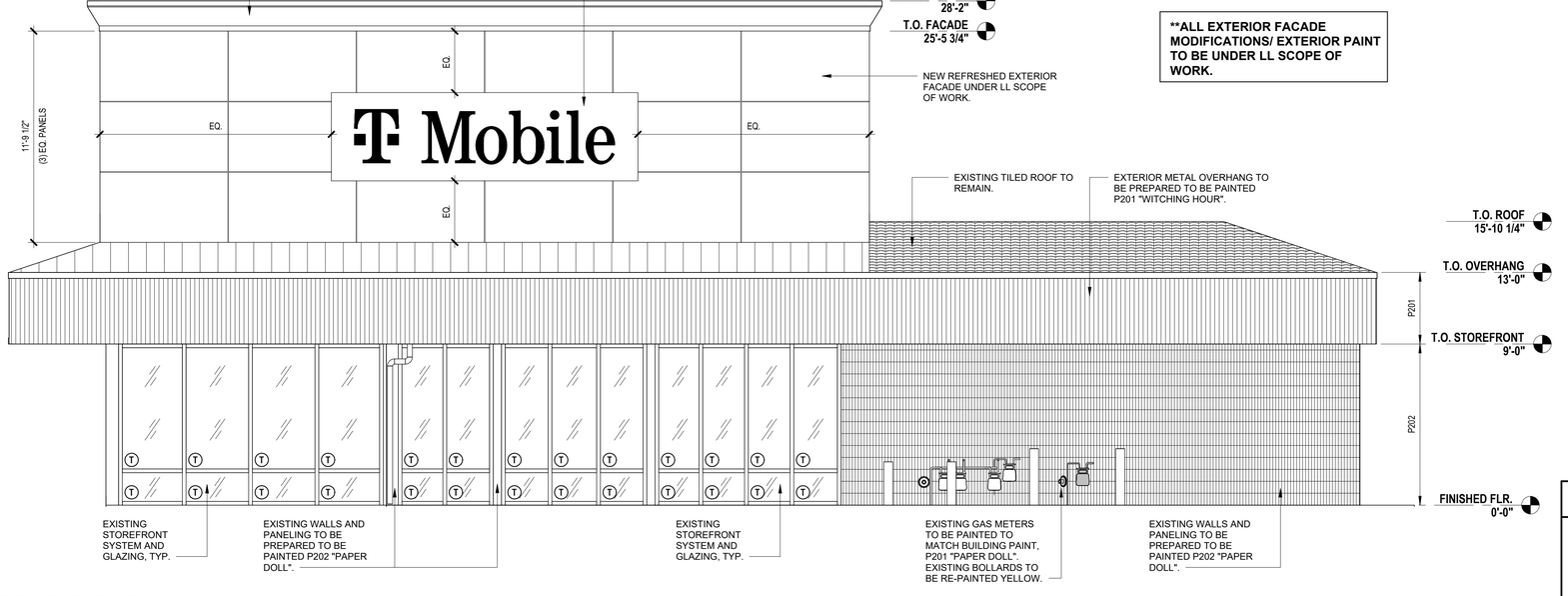
INTERIOR ELEVATIONS - HALLWAY

A204



C4 EXTERIOR ELEVATION
1/4" = 1'-0"

****ALL EXTERIOR FACADE MODIFICATIONS/ EXTERIOR PAINT TO BE UNDER LL SCOPE OF WORK.**



B4 EXTERIOR ELEVATION
1/4" = 1'-0"

****ALL EXTERIOR FACADE MODIFICATIONS/ EXTERIOR PAINT TO BE UNDER LL SCOPE OF WORK.**

SHEET SYMBOLS

AREA OF WINDOW FILM

(T) TEMPERED GLASS

FINISH SUMMERY

SYMBOL	DESCRIPTION
P2##	PAINT
W3##	WINDOW FILM

ALL EQUIPMENT, FINISHES, FIXTURES, FURNITURE, AND GRAPHICS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, SEE A### SERIES SHEETS FOR ALL SCHEDULES.

GENERAL NOTES

1. G.C. TO VERIFY FIELD CONDITIONS AND DIMENSIONS AND NOTIFY ARCHITECTS IMMEDIATELY OF ANY DISCREPANCIES AFTER DEMOLITION AND PRIOR TO RECLADDING OR CONSTRUCTION. G.C. TO FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING ANY MATERIALS.
2. G.C. TO VERIFY AND INSTALL BLOCKING FOR EXTERIOR SIGNAGE AS REQUIRED. COORDINATE WITH LANDLORD AND SIGNAGE VENDOR REGARDING LOCATION OF SIGNAGE AND EXISTING SHELL CONSTRUCTION/FINISH CONDITIONS.
3. SIGN MANUFACTURER TO REVIEW THE LANDLORD'S SIGN CRITERIA AND SUBMIT SHOP DRAWINGS FOR THE PROPOSED SIGN TO THE LANDLORD AND ANY OTHER GOVERNING AUTHORITIES. THE SIGN MANUFACTURER SHALL SECURE ANY AND ALL PERMITS REQUIRED FOR THE INSTALLATION AND DISPLAY OF THE PROPOSED SIGNAGE.
4. SIGN MANUFACTURER'S SHOP DRAWINGS SHALL BE REVIEWED UNDER SEPARATE SUBMITTAL.
5. SIGNAGE AS SHOWN IN THESE DRAWINGS IS SCHEMATIC ONLY FOR ILLUSTRATION PURPOSES AND DOES NOT IMPLY OR DESCRIBE ANY MEANS, METHODS, OR DETAILS PERTAINING TO INSTALLATION OF SIGNAGE. IT SHALL BE SOLELY THE SIGN MANUFACTURER'S RESPONSIBILITY TO DESIGN, FABRICATE, AND INSTALL THE SIGN UNDER SEPARATE PERMIT. ANY AND ALL STRUCTURAL CONSIDERATIONS SHALL BE COORDINATES BETWEEN THE SIGN MANUFACTURER, THE LANDLORD, AND HIS DESIGN PROFESSIONALS.
6. SUITE NUMBERS SHOULD BE A MINIMUM OF 3" HIGH, 1/2" STROKE WIDE, AND A CONTRASTING COLOR. PREMISE IDENTIFICATION MUST BE VISIBLE FROM STREET OR DRIVE. ALL EXTERIOR SUITE DOORS SHALL BE LABELED. POST 6" STREET NUMBERS AND 3" SUITE NUMBERS. COORDINATE WITH LANDLORD REPRESENTATIVE AND T-MOBILE CONSTRUCTION PM FOR FINAL PLACEMENTS OF SUITE NUMBERS.
7. ALL MATERIALS TO BE A CLASS A RATING WITH A FLAME SPREAD INDEC OF 0-25 AND SMOKE DEVELOPED INDEX OF 0-450.

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SOUTH MERIDIAN & 43RD AVE SE

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PROJECT TYPE: CORPORATE NEW CD
DESIGN TYPE: E1Y

8022

PROTOTYPE RELEASE: DCD:

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PRCTI20241902

##	DESCRIPTION:	DATE

DATE: 11/13/2024
DRAWN BY: BC

EXTERIOR ELEVATION

A210



C4 EXTERIOR RENDERING VIEW
1" = 1'-0"



C2 EXTERIOR RENDERING VIEW
1" = 1'-0"



B4 EXTERIOR RENDERING VIEW
1" = 1'-0"



B2 INTERIOR ELEVATION
1" = 1'-0"

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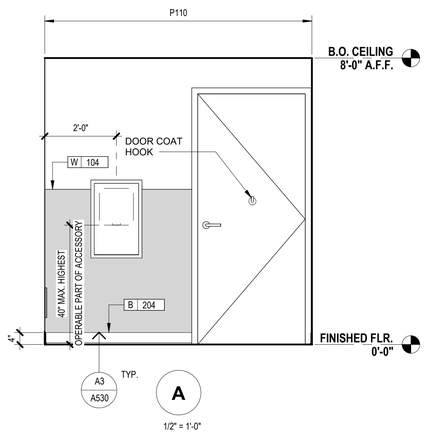
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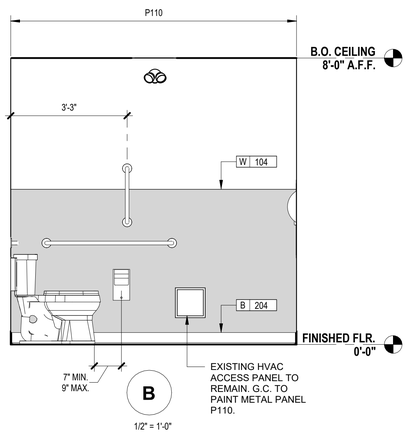
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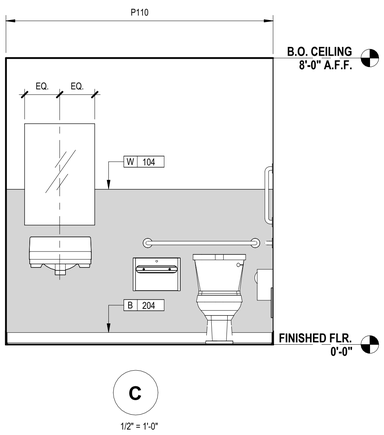
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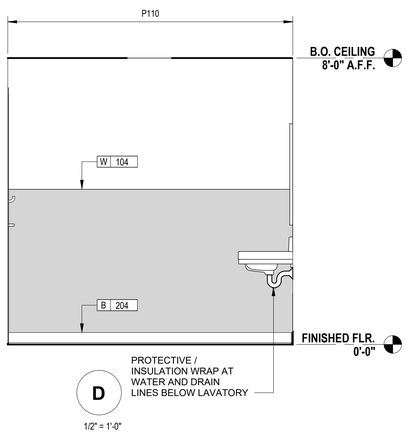
EXTERIOR RENDERINGS

A211

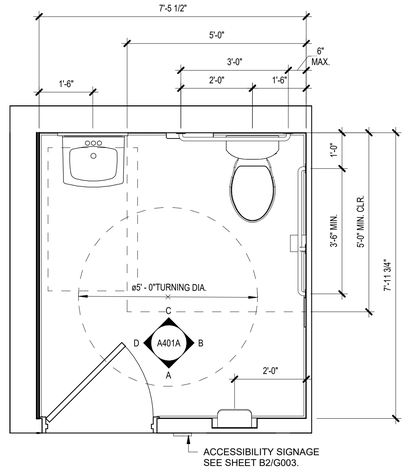






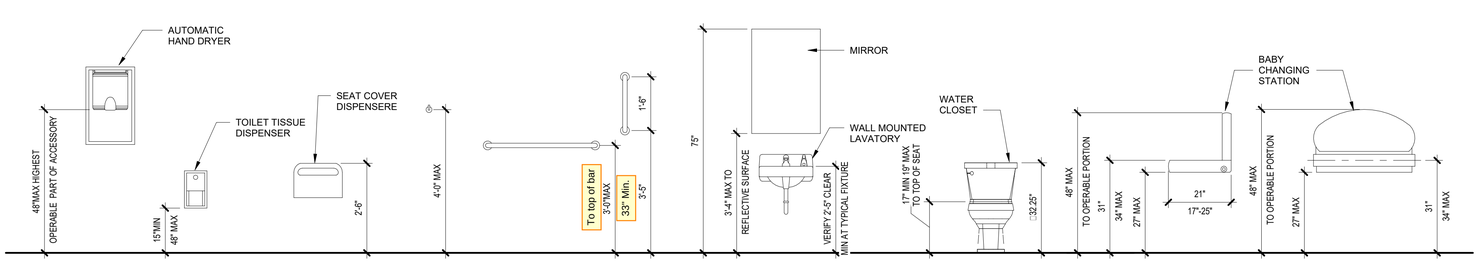


C4 TOILET ROOM ELEVATIONS - TYPICAL



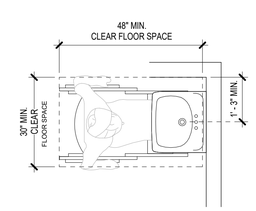
C1 ENLARGED EMPLOYEE TOILET ROOM

1/2" = 1'-0"

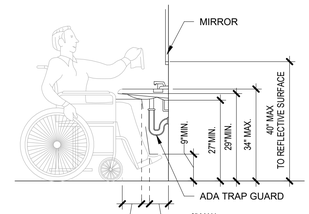


B4 TYPICAL MOUNTING HEIGHTS

1/2" = 1'-0"



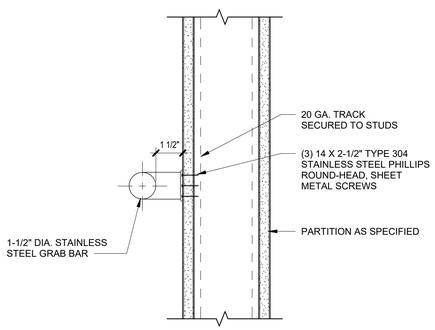
A **CLEAR FLOOR SPACE**



B **MOUNTING HEIGHTS**

B2 LAVATORY DETAIL

1/2" = 1'-0"



A4 GRAB BAR DETAIL

3" = 1'-0"

GRAB BAR NOTES

1. GC TO INSTALL WITH MOUNTING KIT # 252-30.
2. THE STRUCTURAL STRENGTH OF GRAB BARS SHALL MEET THE FOLLOWING SPECIFICATIONS:
   - A. BENDING STRESS IN A GRAB BAR INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF 250LBF (1112N) SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR.
   - B. SHEAR STRESS INDUCED IN A GRAB BAR BY THE APPLICATION FO 250LBF (1112N) SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR, IF THE NECTIONS BETWEEN THE GRAB BAR AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL BE TOTALED FOR THE COMBINED SHEAR STRESS, WHICH SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.
   - C. SHEAR FORCE INDUCED IN A FASTENER OR MOUNTING DEVICE FROM THE APPLICATION OF 250LBF (1112N) SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR SUPPORTING STRUCTURE. WHICHEVER IS THE SMALLER ALLOWABLE LOAD.
   - D. TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF 250LBF(1112N) PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF 250 LBF (1112N) SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND THEDUPPORTING STRUCTURE.
   - E. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
3. SEE DETAIL A3/A521 FOR ADDITIONAL BLOCKING INFORMATION.

GENERAL NOTES

1. DISPENSERS THAT CONTROL DELIVERY OR THAT DO NOT PERMIT CONTINUOUS PAPER FLOW SHALL NOT BE USED.
2. INTERIOR SURFACES - TOILET ROOM FLOORS SHALL HAVE A SMOOTH, HARD, NON- ABSORBENT SURFACE, SUCH AS PORTLAND CEMENT, CONCRETE, CERAMIC TILES, OR OTHER APPROVED MATERIALS WHICH UPWARD ONTO THE WALLS AT LEAST 5".
3. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES OR SINKS.
4. PROVIDE BLOCKING AT ALL WALL MOUNTED FIXTURES AND ACCESSORIES.

ACCESSORIES

1. CHANNEL FREE MIRROR: BOBRICK B-165 2436
2. SEAT COVER DISPENSER: ITEM #420660
3. GRAB BAR: BOBRICK B-06806 (36"L, AND 18"L, WHEN REQUIRED)
4. AUTOMATIC HAND DRYER: EXCEL XL-SB WITH ADA RECESSED MOUNTING KIT 40502
5. TOILET PAPER DISPENSER: BOBRICK B-2888
6. BABY CHANGING STATION: BOBRICK KB208-1 GRAY
7. DOOR COAT HOOK: BOBRICK B-6827

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ACCESSIBLE SIGNAGE

ADA SIGN DESCRIPTION	MODEL #	SIGNAGE
WINDOW / COUNTER DECAL SYMBOL OF ACCESSIBILITY - SIZE 6" X 6"	ADA-1006	
"EXIT" - SIZE: 6" X 6"; W/ ADA/CBC BRAILLE	ADA-1242	EXIT
"EXIT ROUTE" - SIZE: 6" X 6"; W/ ADA/CBC BRAILLE	ADA-1243	EXIT ROUTE
WHEELCHAIR ACCESSIBLE ENTRANCE - SIZE: 6" X 8"	ADA-1070	
"WOMEN" WHEELCHAIR ACCESSIBLE RESTROOM - WALL - SIZE: 6" X 8"	ADA-1024	
"MEN" WHEELCHAIR ACCESSIBLE RESTROOM - WALL - SIZE: 6" X 8"	ADA-1025	
"ALL GENDER" WHEELCHAIR ACCESSIBLE RESTROOM - WALL - SIZE: 8" X 8"	ADA-1026	
"ALL GENDER" ACCESSIBLE RESTROOM-TACTILE BRAILLE - WALL - 8" X 9"	ADA-1245	
"WOMEN" ACCESSIBLE RESTROOM - DOOR - SIZE: 12" DIA. CIRCLE	T24-1001	
"MEN" ACCESSIBLE RESTROOM - DOOR - SIZE: 12" TRIANGLE	T24-1000	
"ALL GENDER" WHEELCHAIR ACCESSIBLE RESTROOM - DOOR - 12" TRIANGLE/CIRCLE	T24-1003	
"ALL GENDER" WHEELCHAIR ACCESSIBLE RESTROOM-DOOR - 12" X 12"	ADA-1251	

G.C. IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL ACCESSIBLE SIGNAGE. SIGNAGE TO BE ADA WHITE ON BLUE AVAILABLE FROM ADASIGNDEPOT.COM *NOT ALL USED AT THIS LOCATION

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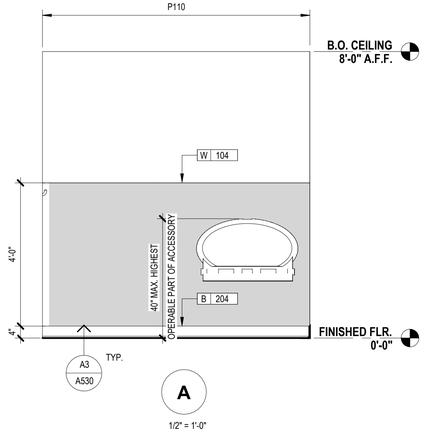
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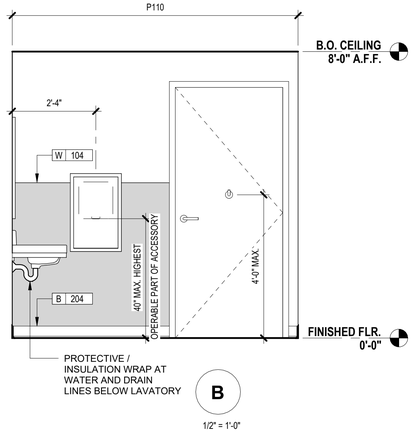
DATE: 11/13/2024
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ENLARGED EMPLOYEE TOILET ROOM

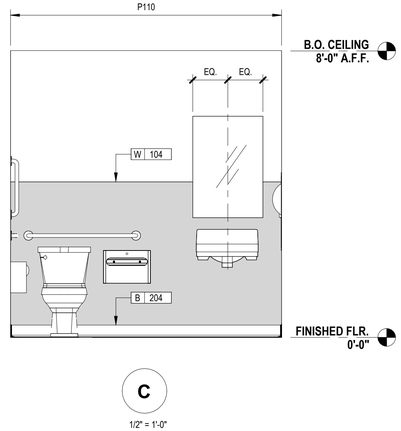
A401A



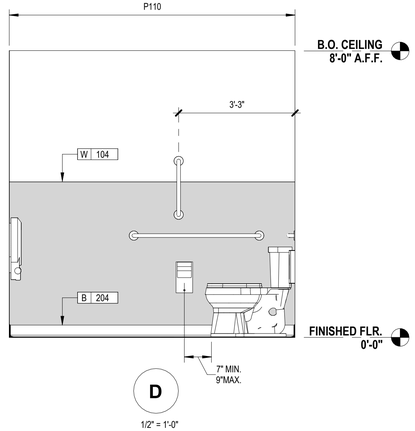
A
1/2" = 1'-0"



B
1/2" = 1'-0"

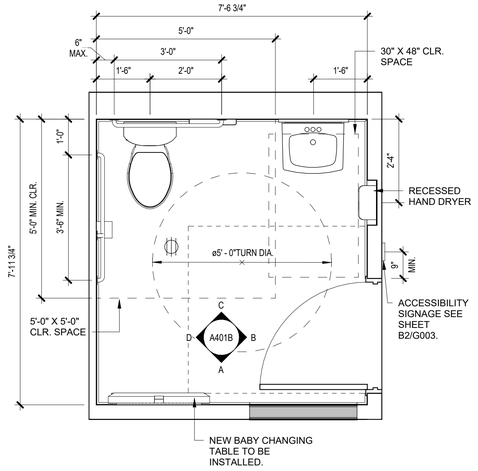


C
1/2" = 1'-0"



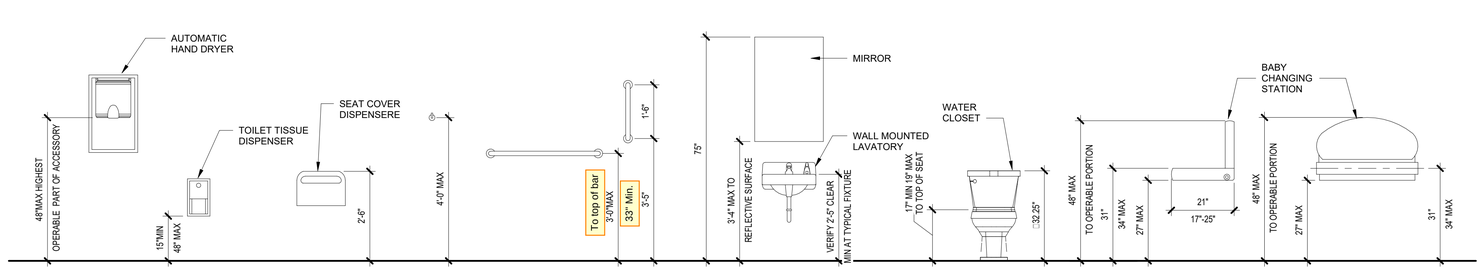
D
1/2" = 1'-0"

C4 TOILET ROOM ELEVATIONS - TYPICAL



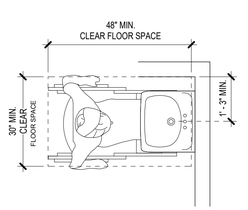
C1 ENLARGED CUSTOMER TOILET ROOMS

1/2" = 1'-0"

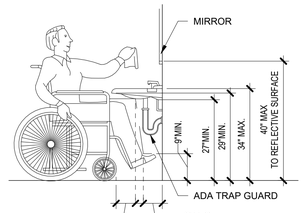


B4 TYPICAL MOUNTING HEIGHTS

1/2" = 1'-0"



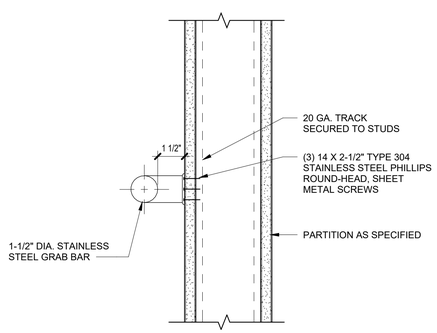
A **CLEAR FLOOR SPACE**



B **MOUNTING HEIGHTS**

B2 LAVATORY DETAIL

1/2" = 1'-0"



A4 GRAB BAR DETAIL

3" = 1'-0"

GRAB BAR NOTES

1. GC TO INSTALL WITH MOUNTING KIT # 252-30.
2. THE STRUCTURAL STRENGTH OF GRAB BARS SHALL MEET THE FOLLOWING SPECIFICATIONS:
   A. BENDING STRESS IN A GRAB BAR INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF 250LBF (1112N) SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR.
   B. SHEAR STRESS INDUCED IN A GRAB BAR BY THE APPLICATION FO 250LBF (1112N) SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR. IF THE NECTIONS BETWEEN THE GRAB BAR AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL BE TOTALED FOR THE COMBINED SHEAR STRESS, WHICH SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.
   C. SHEAR FORCE INDUCED IN A FASTENER OR MOUNTING DEVICE FROM THE APPLICATION OF 250LBF (1112N) SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR SUPPORTING STRUCTURE. WHICHEVER IS THE SMALLER ALLOWABLE LOAD.
   D. TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF 250LBF(1112N) PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF 250 LBF (1112N) SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND THEDUPPORTING STRUCTURE.
   E. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
3. SEE DETAIL A3/A521 FOR ADDITIONAL BLOCKING INFORMATION.

GENERAL NOTES

1. DISPENSERS THAT CONTROL DELIVERY OR THAT DO NOT PERMIT CONTINUOUS PAPER FLOW SHALL NOT BE USED.
2. INTERIOR SURFACES - TOILET ROOM FLOORS SHALL HAVE A SMOOTH, HARD, NON- ABSORBENT SURFACE, SUCH AS PORTLAND CEMENT, CONCRETE, CERAMIC TILES, OR OTHER APPROVED MATERIALS WHICH UPWARD ONTO THE WALLS AT LEAST 5".
3. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES OR SINKS.
4. PROVIDE BLOCKING AT ALL WALL MOUNTED FIXTURES AND ACCESSORIES.

ACCESSORIES

1. CHANNEL FREE MIRROR: BOBRICK B-165 2436
2. SEAT COVER DISPENSER: ITEM #420660
3. GRAB BAR: BOBRICK B-06806 (36"L, AND 18"L, WHEN REQUIRED)
4. AUTOMATIC HAND DRYER: EXCEL XL-SB WITH ADA RECESSED MOUNTING KIT 40502
5. TOILET PAPER DISPENSER: BOBRICK B-2888
6. BABY CHANGING STATION: BOBRICK KB208-1 GRAY
7. DOOR COAT HOOK: BOBRICK B-6827

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Fire | Traffic

ACCESSIBLE SIGNAGE

ADA SIGN DESCRIPTION	MODEL #	SIGNAGE
WINDOW / COUNTER DECAL SYMBOL OF ACCESSIBILITY - SIZE 6" X 6"	ADA-1006	
"EXIT" - SIZE: 6" X 6"; W/ ADA/CBC BRAILLE	ADA-1242	EXIT
"EXIT ROUTE" - SIZE: 6" X 6"; W/ ADA/CBC BRAILLE	ADA-1243	EXIT ROUTE
WHEELCHAIR ACCESSIBLE ENTRANCE - SIZE: 6" X 8"	ADA-1070	
"WOMEN" WHEELCHAIR ACCESSIBLE RESTROOM - WALL - SIZE: 6" X 8"	ADA-1024	
"MEN" WHEELCHAIR ACCESSIBLE RESTROOM - WALL - SIZE: 6" X 8"	ADA-1025	
"ALL GENDER" WHEELCHAIR ACCESSIBLE RESTROOM - WALL - SIZE: 8" X 8"	ADA-1026	
"ALL GENDER" ACCESSIBLE RESTROOM-TACTILE BRAILLE - WALL - 8" X 9"	ADA-1245	
"WOMEN" ACCESSIBLE RESTROOM - DOOR - SIZE: 12" DIA. CIRCLE	T24-1001	
"MEN" ACCESSIBLE RESTROOM - DOOR - SIZE: 12" TRIANGLE	T24-1000	
"ALL GENDER" WHEELCHAIR ACCESSIBLE RESTROOM - DOOR - 12" TRIANGLE/CIRCLE	T24-1003	
"ALL GENDER" WHEELCHAIR ACCESSIBLE RESTROOM-DOOR - 12" X 12"	ADA-1251	

G.C. IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL ACCESSIBLE SIGNAGE. SIGNAGE TO BE ADA WHITE ON BLUE AVAILABLE FROM ADASIGNDEPOT.COM *NOT ALL USED AT THIS LOCATION

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SOUTH MERIDIAN & 43RD AVE SE

4227 S MERIDIAN
SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y

PROJECT TYPE: CORPORATE NEW CD

8022

PROTOTYPE RELEASE: DCD:

20123279
REGISTERED ARCHITECT
WILLIAM LOUIS PALUCH
STATE OF WASHINGTON

11/25/2024

FUZION
20551 N. PIMA ROAD
SUITE 200
SCOTTSDALE, AZ 85255
design@fuzionad.com
(480) 463-4764
www.fuzionad.com

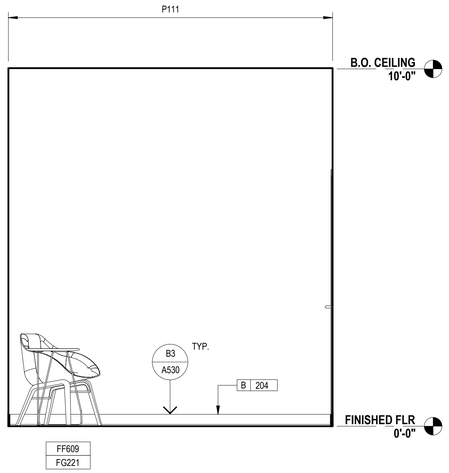
PRCTI20241902

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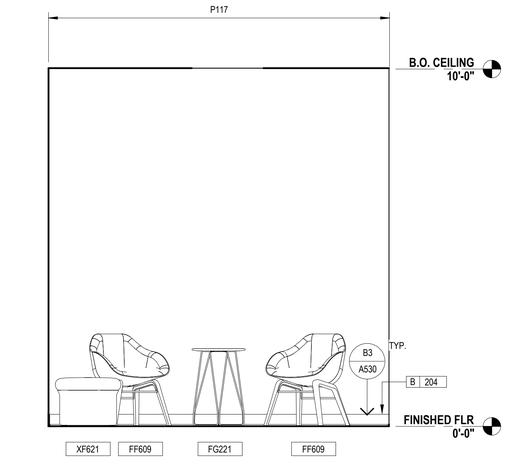
DATE: 11/13/2024
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ENLARGED CUSTOMER TOILET ROOM

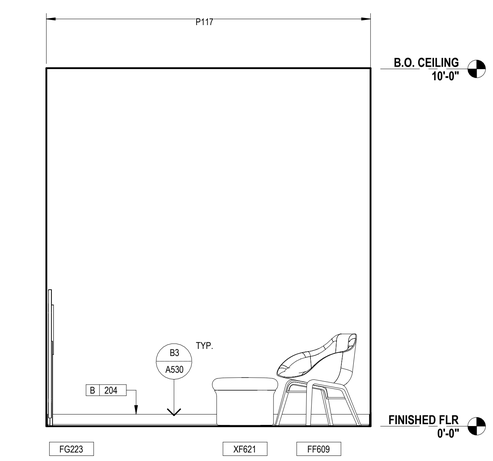
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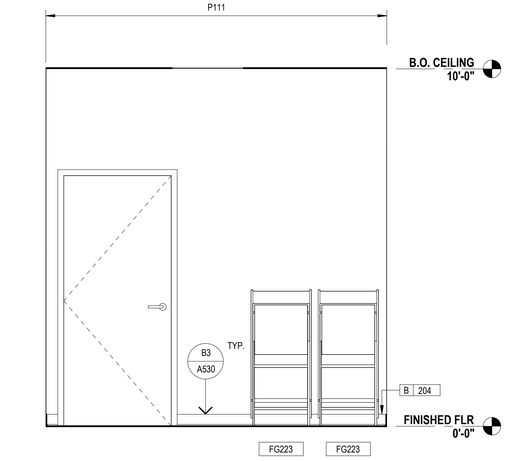
C4 INTERIOR ELEVATION
1/2" = 1'-0"



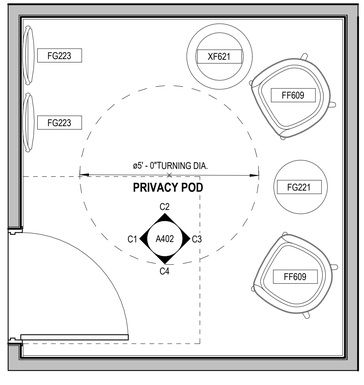
C3 INTERIOR ELEVATION
1/2" = 1'-0"



C2 INTERIOR ELEVATION
1/2" = 1'-0"



C1 INTERIOR ELEVATION
1/2" = 1'-0"



A2 ENLARGED FURNITURE PLAN
1/2" = 1'-0"

GENERAL NOTES

1. G.C. TO VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECTS IMMEDIATELY OF ANY DISCREPANCIES OR UNFORESEEN ITEMS NOT SHOWN ON DRAWINGS.
2. SEE SHEET G003 FOR ACCESSIBILITY SIGNAGE.
3. SEE SHEET A131 FOR CEILING HEIGHTS.
4. FIXTURE FURNISHED BY OWNER AND INTALLED BY GENERAL CONTRACTOR OR FIXTURE VENDOR. REFER TO FIXTURE MANUFACTURER INSTRUCTIONS FOR ALL ATTACHMENTS TO WALL AND FLOOR. PROVIDE ALL BLOCKING AND ANCHORS AS REQUIRED.
5. FIXTURE QUANTITIES AND COORDINATION WITH CASEWORK VENDOR.
6. ALL SERVICE COUNTERTOPS TO COMPLY WITH ANSI / ADA / PER IBC CHAPTER 11
7. SEE SHEET A6XX FOR FURNITURE, EQUIPMENT, FIXTURE AND GRAPHIC SCHEDULES.
8. FLOOR FIXTURE DIMENSIONS ARE FROM FINISH WALL TO FIXTURE UNLESS OTHERWISE NOTED.
9. G.C. TO PROVIDE THE REQUIRED FIXTURED BLOCKING FOR ALL WALL MOUNTED ELEMENTS.

SHEET SYMBOLS

M_Tag
F_Tag
D_Tag
MERCHANDISING CONTENT TAG
FIXTURE TAG
DIGITAL CONTENT TAG

SEE A141 FOR FIXTURE AND EQUIPMENT SUMMERY

F XXXX
FINISH TAGS - SEE A111 FOR FINISH SUMMERY

?
MATERIAL TAG

City of Puyallup
Development & Permitting Services
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DESIGN TYPE: E1Y
PROJECT TYPE: CORPORATE NEW CD

8022

PROTOTYPE RELEASE: DCD:

20123279 REGISTERED ARCHITECT
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STATE OF WASHINGTON

11/25/2024

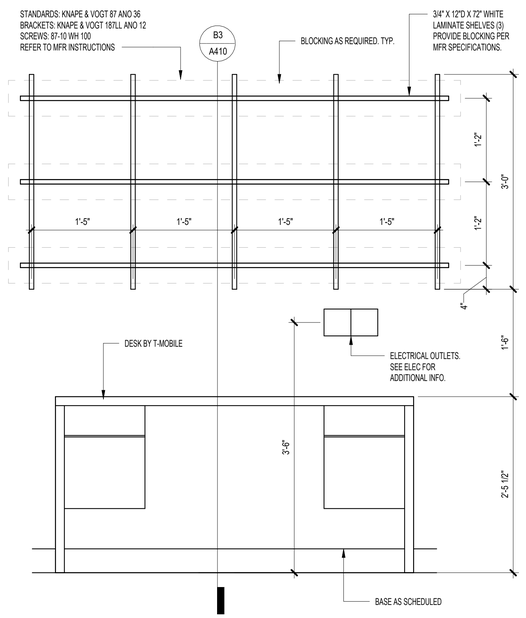
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20551 N. PIMA ROAD
SUITE 200
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##	DESCRIPTION:	DATE

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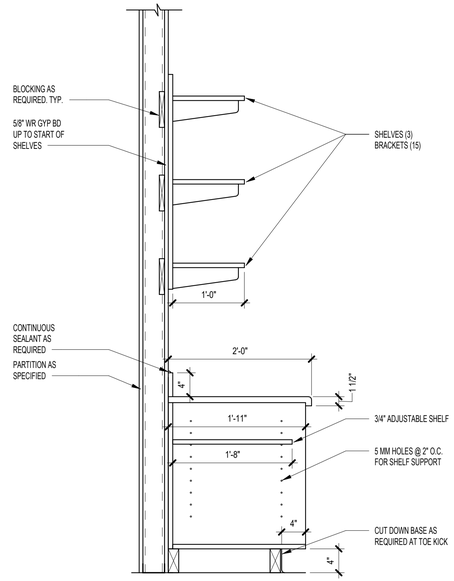
ENLARGED PRIVACY POD

A402



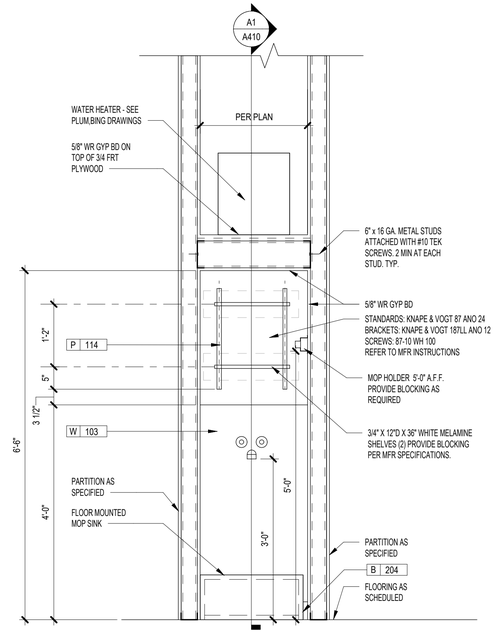
B4 MANAGER'S DESK ELEVATION

1" = 1'-0"



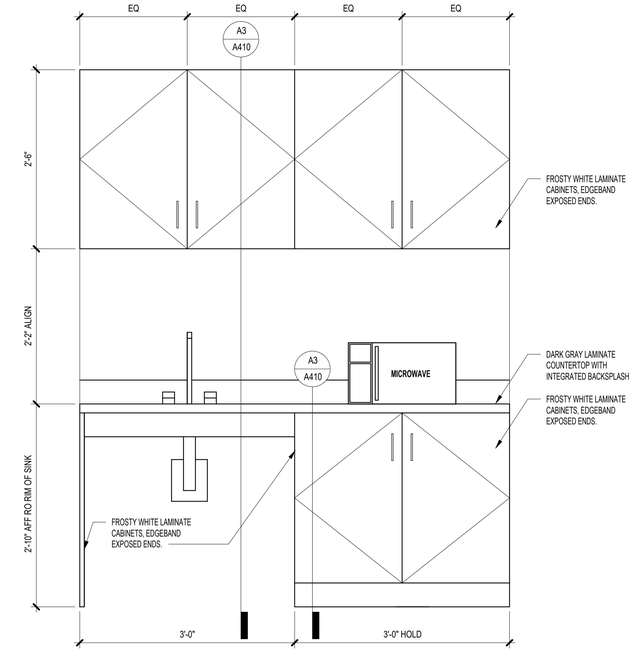
B3 MANAGER'S DESK SECTION

1" = 1'-0"



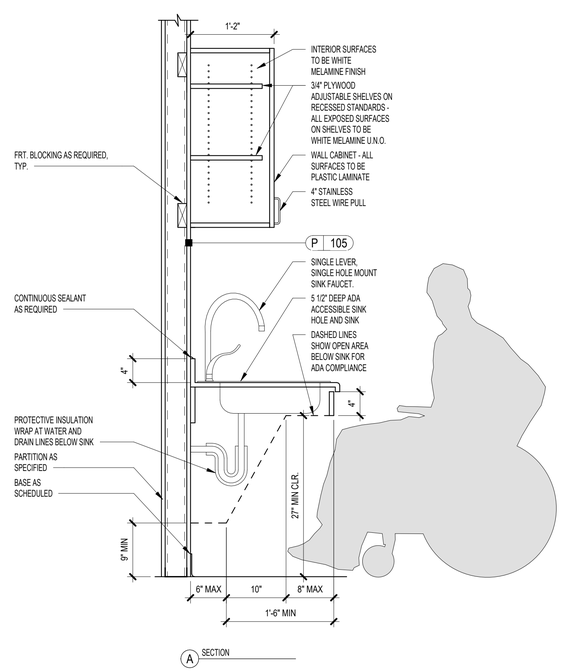
B2 MOP SINK ELEVATION

3/4" = 1'-0"



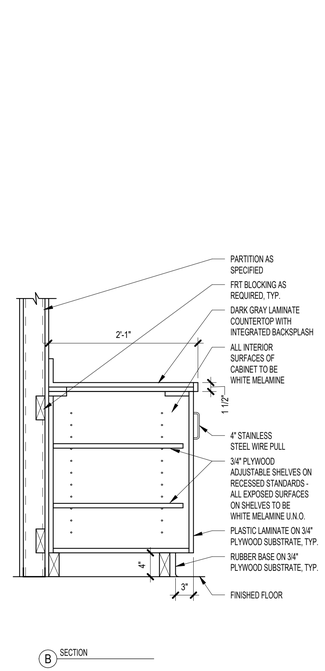
A4 KITCHENETTE ELEVATION

1" = 1'-0"



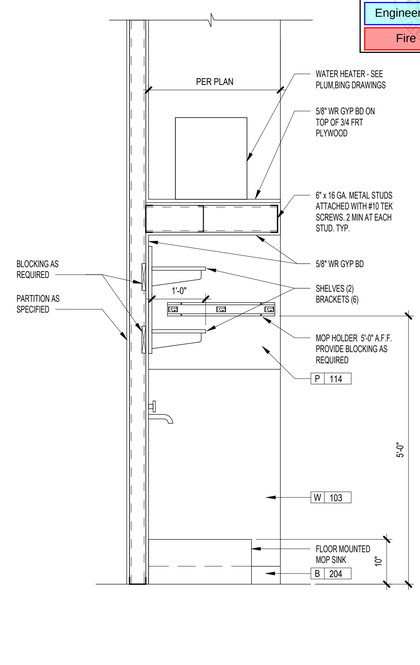
A3 KITCHENETTE SECTION

1" = 1'-0"



A1 MOP SINK SECTION

3/4" = 1'-0"



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DESIGN TYPE: E1Y

8022

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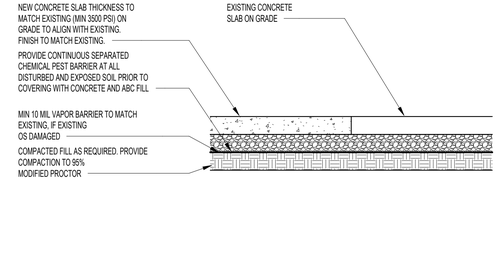
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DATE: 11/13/2024
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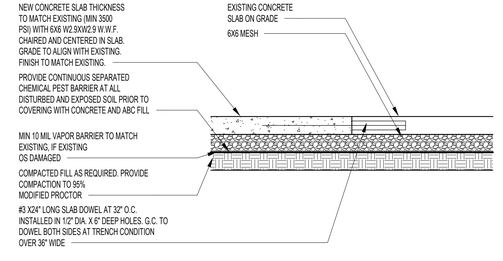
KITCHENETTE, MOP SINK AND MANAGERS DESK

A410



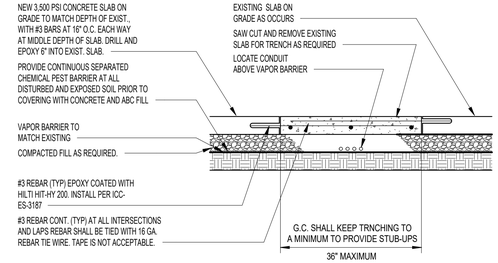
A3 SLAB INFILL AT SUPPLY/WASTE

3" = 1'-0"



A2 SLAB INFILL AT LEAVE OUT

3" = 1'-0"



A1 SLAB DOWELING AT TRENCH

3" = 1'-0"

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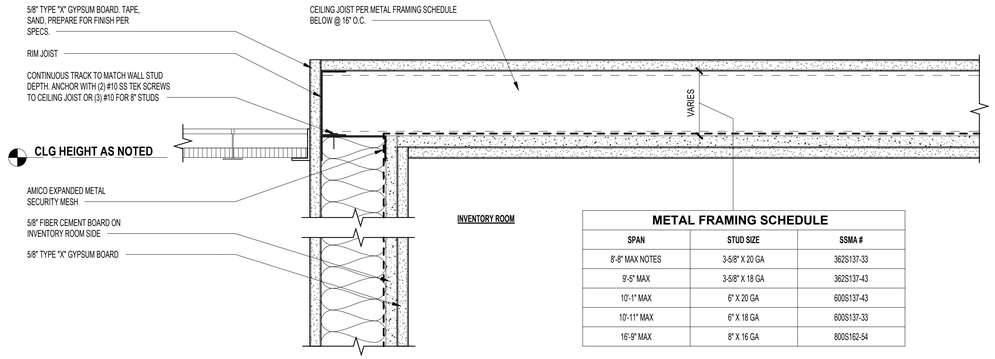
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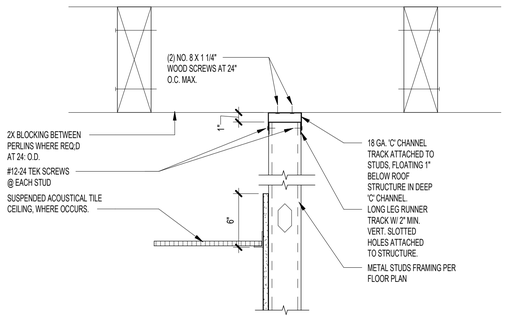
SLAB DETAILS

A501

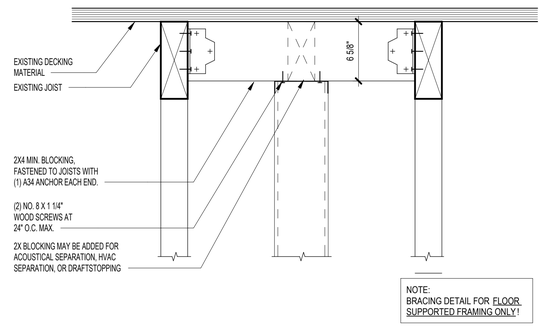


METAL FRAMING SCHEDULE		
SPAN	STUD SIZE	SSMA #
8'-8" MAX NOTES	3-5/8" X 20 GA	362S137-33
9'-5" MAX	3-5/8" X 18 GA	362S137-43
10'-1" MAX	6" X 20 GA	600S137-43
10'-11" MAX	6" X 18 GA	600S137-33
16'-9" MAX	8" X 16 GA	800S162-54

C4 INVENTORY ROOM PARTITION TO CEILING CONNECTION
3" = 1'-0"



C2 ATTACHMENT TO STRUCTURE
1 1/2" = 1'-0"

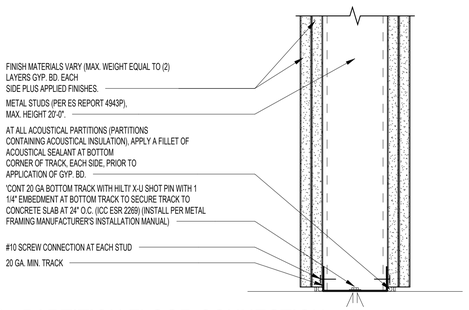


C1 ATTACHMENT TO STRUCTURE
1 1/2" = 1'-0"

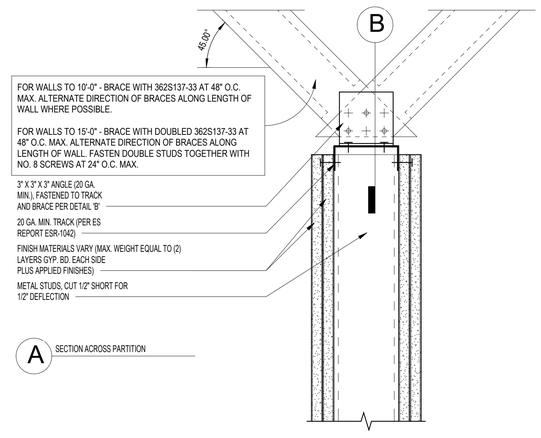
FASTENERS:
AT PLYWOOD FLOOR (MIN. 3/4" CDX):
PROVIDE (2) NO. 8 X 3/4" WOOD SCREWS AT 24" O.C. MAX. STAGGERED FOR (1) LAYER GYP. BD. EACH SIDE, 16" O.C. MAX. STAGGERED FOR (2) LAYERS GYP. BD. EACH SIDE.

AT CIP CONCRETE FLOOR:
PROVIDE HILTI X-DNI .145Ø X 1" EMBED (POWDER-ACTUATED FASTENERS PER ES REPORT ESR-1663) AT 24" O.C. MAX. STAGGERED FOR (1) LAYER GYP. BD. EACH SIDE, 16" O.C. MAX. STAGGERED FOR (2) LAYERS GYP. BD. EACH SIDE.

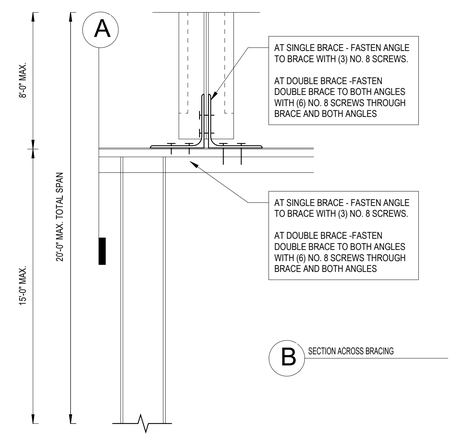
AT POST-TENSIONED CONCRETE FLOOR:
PROVIDE HILTI X-DNI .145Ø X 3/4" EMBED (POWER-ACTUATED FASTENERS PER ES REPORT ESR-1663) AT 24" O.C. MAX. STAGGERED FOR (1) LAYER GYP. BD. EACH SIDE, 16" O.C. MAX. STAGGERED FOR (2) LAYERS GYP. BD. EACH SIDE.

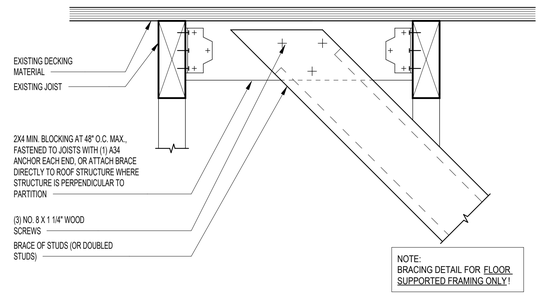


B4 PARTITION FLOOR CONNECTION
3" = 1'-0"



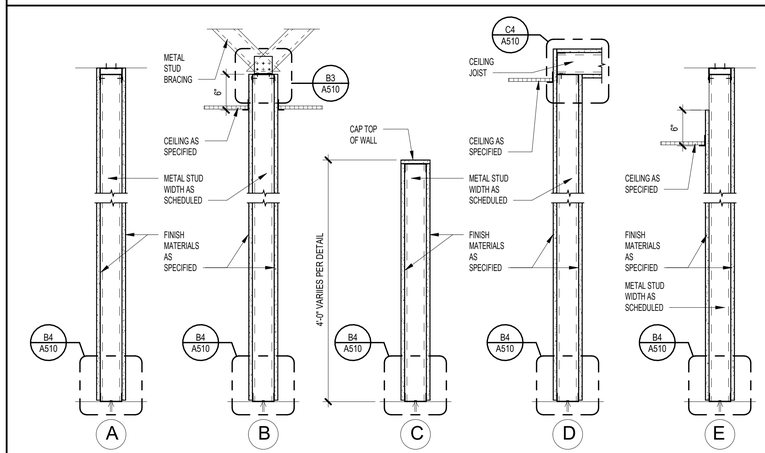
B3 TOP OF WALL BRACING DETAIL
3" = 1'-0"



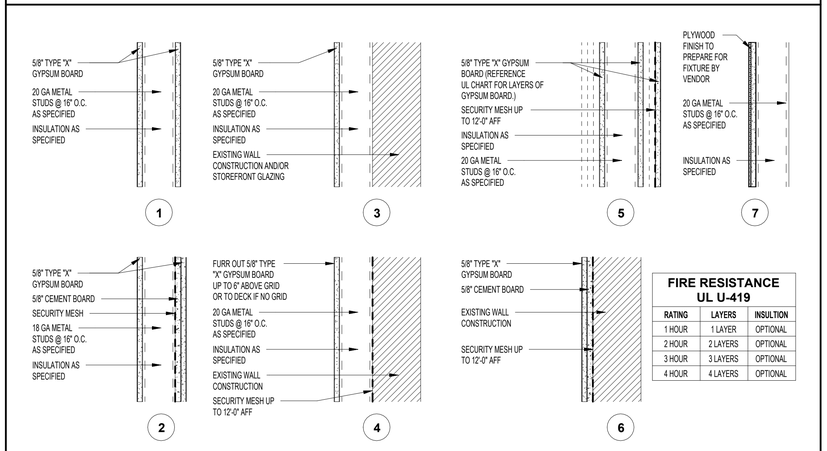


B1 ATTACHMENT TO STRUCTURE - WOOD
1 1/2" = 1'-0"

1 - PARTITION TYPES



2 - CONSTRUCTION OF PARTITION



FIRE RESISTANCE UL U-419		
RATING	LAYERS	INSULTION
1 HOUR	1 LAYER	OPTIONAL
2 HOUR	2 LAYERS	OPTIONAL
3 HOUR	3 LAYERS	OPTIONAL
4 HOUR	4 LAYERS	OPTIONAL

GENERAL NOTES

1. G.C. TO FIELD VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECTS IMMEDIATELY OF ANY DISCREPANCIES OR UNFORESEEN ITEMS NOT SHOWN ON DRAWINGS.
2. MAINTAIN FIRE RESISTANCE RATING FOR ALL TENANT DEMISING WALLS.
3. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS (UTILITY SINK, KITCHENETTE, DRINKING FOUNTAIN, TOILET ROOM, ETC.)
4. SEE SPECIFICATIONS FOR WALL FINISH INSTRUCTIONS.

3 - STUD SIZING

TAG	DESCRIPTION
E	EXISTING
1	1 5/8" METAL STUD
3	3 5/8" METAL STUD
6	6" METAL STUD
Z	1" 25 GA. "Z" CHANNEL

4 - INSULATION

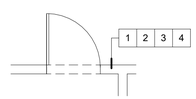
TAG	DESCRIPTION
A	SOUND ATTENUATION BATT INSULATION
T	THERMAL BATT INSULATION
R	RIGID THERMAL INSULATION
E	EXISTING
X	NON INSULATION CAVITY FILL
G	GROUTED SOLID

PARTITION DESIGNATION

THE PARTITION-TYPE DESIGNATION OR WALL-TYPE DESIGNATION IS A FOUR-UNIT CODE THAT INDICATES THE CONFIGURATION, CONSTRUCTION, AND INSULATION OF THE PARTITION, AS FOLLOWS:

1. PARTITION TYPES
2. CONSTRUCTION OF PARTITION
3. STUD SIZING
4. INSULATION

SEE SHEET A510 FOR DETAILS



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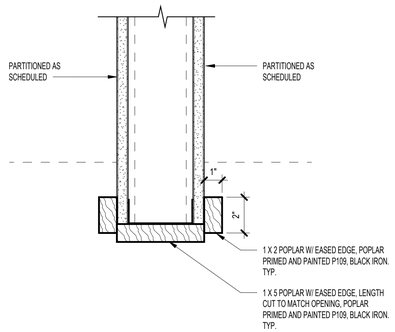
PRCTI20241902

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DATE: 11/13/2024
DRAWN BY: BC

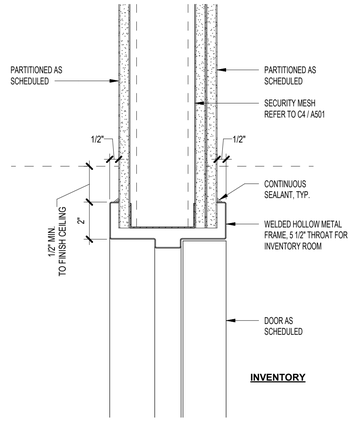
PARTITION DETAILS

A510



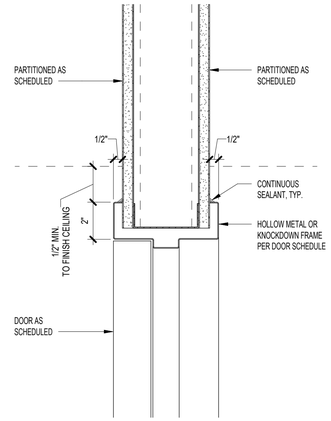
B3 CASED OPENING HEAD DETAIL

3" = 1'-0"



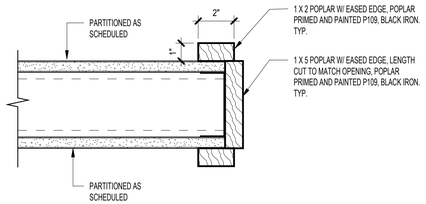
B2 INVENTORY HEAD DETAIL

3" = 1'-0"



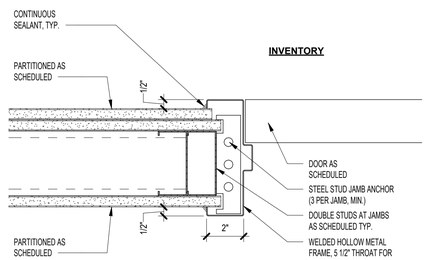
B1 TYPICAL HEAD DETAIL

3" = 1'-0"



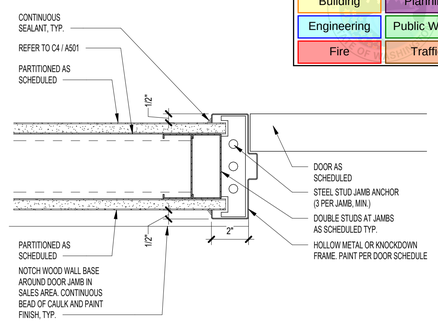
A3 CASED OPENING JAMB DETAIL

3" = 1'-0"



A2 INVENTORY JAMB DETAIL

3" = 1'-0"



A1 TYPICAL JAMB DETAIL

3" = 1'-0"

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SOUTH MERIDIAN & 43RD AVE SE

4227 S MERIDIAN
SUITE E
PUYALLUP, WA 98373

PROJECT TYPE: CORPORATE NEW CD
DESIGN TYPE: E1Y

8022

PROTOTYPE RELEASE: DCD:

20123279 REGISTERED ARCHITECT
WILLIAM LOUIS PALUCH
STATE OF WASHINGTON

11/25/2024

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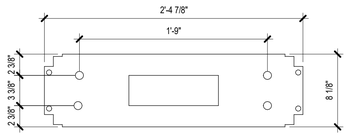
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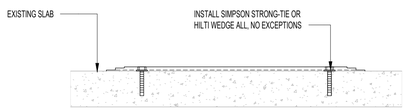
HEADER AND JAMB DETAILS

A511

VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION FOR FIXTURE.



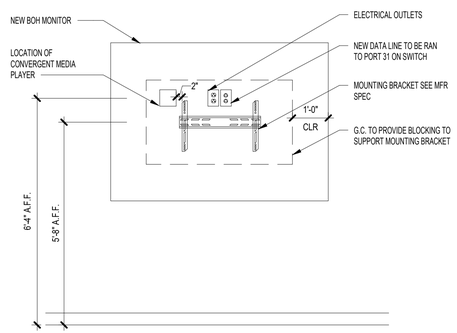
PLAN VIEW



SECTION

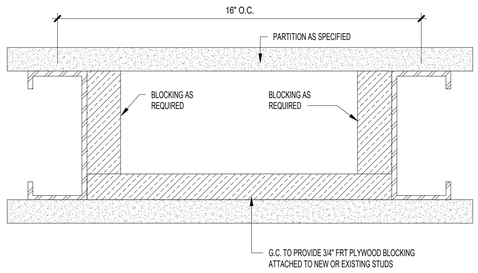
B4 BOTTOM FLOOR ANCHOR DETAIL

1 1/2" = 1'-0"



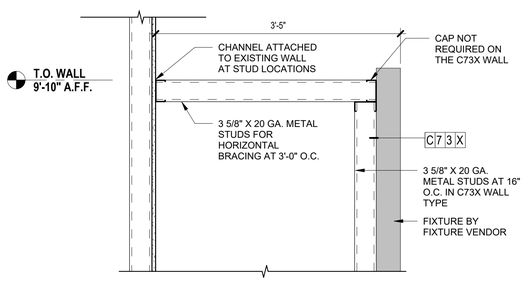
A4 BACK OF HOUSE MONITOR MOUNTING DETAIL

1/2" = 1'-0"



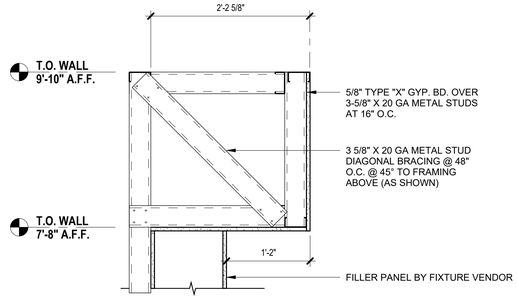
A3 TYPICAL IN WALL BLOCKING DETAIL (GRAB BARS, ETC.)

6" = 1'-0"



A2 ATTACHMENT AT DIGITAL WALL

1" = 1'-0"



A1 TYP. SOFFIT @ DEMO/ OPS DEPOT

1" = 1'-0"

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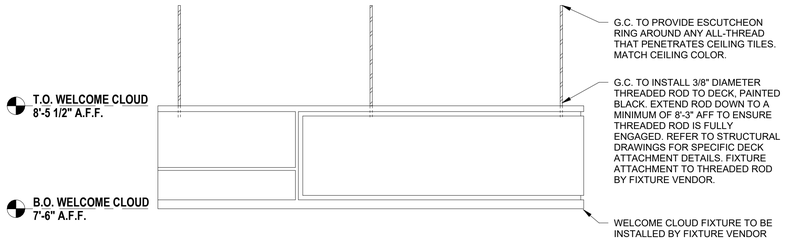
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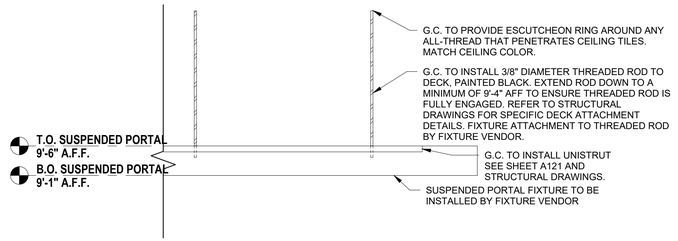
DATE: 11/13/2024
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FIXTURE BLOCKING DETAILS

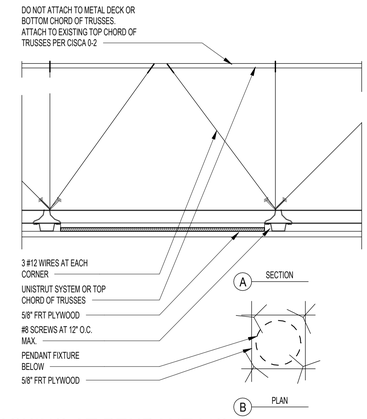
A512



C4 ALL-THREAD AT WELCOME CLOUD - SMALL
1 1/2" = 1'-0"

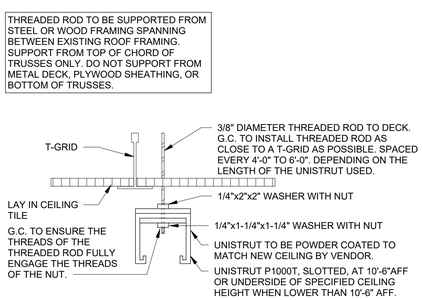


C3 ALL-THREAD AT SUSPENDED PORTAL
1 1/2" = 1'-0"

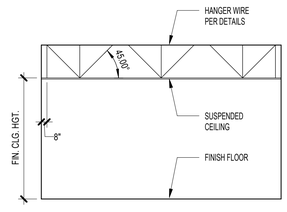


C1 BLOCKING AT PENDANT LIGHT
1" = 1'-0"

THREADED ROD TO BE SUPPORTED FROM STEEL OR WOOD FRAMING SPANNING BETWEEN EXISTING ROOF FRAMING. SUPPORT FROM TOP OF CHORD OF TRUSSES ONLY. DO NOT SUPPORT FROM METAL DECK, PLYWOOD SHEATHING, OR BOTTOM OF TRUSSES.



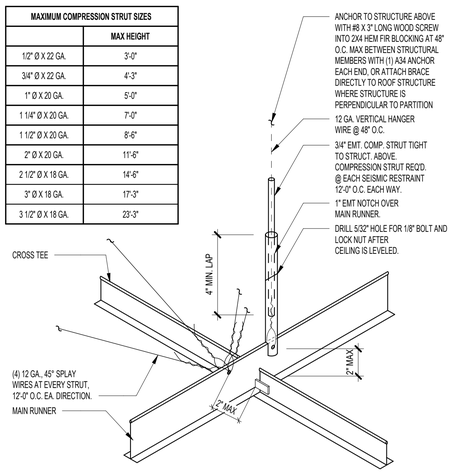
B4 UNISTRUT AT SUSPENDED CEILING
1 1/2" = 1'-0"



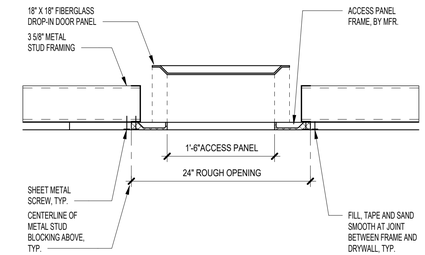
TIE TWO ADJACENT WALLS TO CEILING MAIN AND CROSS RUNNERS.

B3 SUSPENDED CEILING BRACING
1" = 1'-0"

MAXIMUM COMPRESSION STRUT SIZES	
	MAX HEIGHT
1/2" Ø X 22 GA.	3'-0"
3/4" Ø X 22 GA.	4'-3"
1" Ø X 20 GA.	5'-0"
1 1/4" Ø X 20 GA.	7'-0"
1 1/2" Ø X 20 GA.	8'-6"
2" Ø X 20 GA.	11'-6"
2 1/2" Ø X 18 GA.	14'-6"
3" Ø X 18 GA.	17'-3"
3 1/2" Ø X 18 GA.	23'-3"



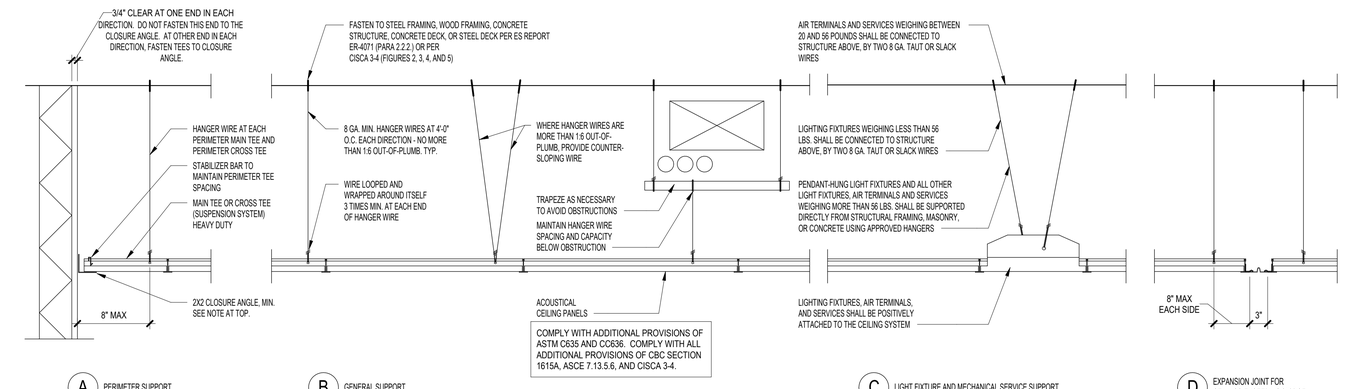
B2 SUSPENDED CEILING - SEISMIC
1" = 1'-0"



ACCESS PANEL MANUFACTURED BY:
INTEX FORMS INC, (510) 887-8000
18" x 18" GFRG FIBERGLASS ACCESS PANEL,
12"X12" GFRG FIBERGLASS ACCESS PANEL.
NOTE: THIS ACCESS PANEL IS NOT TO BE USED IN FIRE-RATED LOCATIONS.

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B1 PUSH OUT ACCESS PANEL
1" = 1'-0"

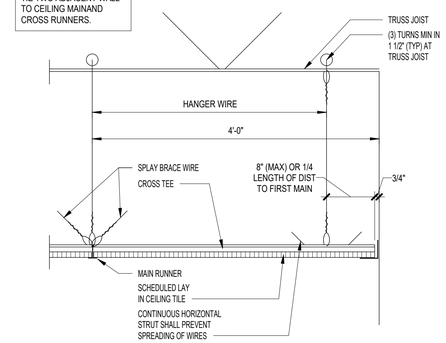


COMPLY WITH ADDITIONAL PROVISIONS OF ASTM C635 AND CC636. COMPLY WITH ALL ADDITIONAL PROVISIONS OF CBC SECTION 1615A, ASCE 7.13.5.6, AND CISCA 3-4.

A PERIMETER SUPPORT
B GENERAL SUPPORT
C LIGHT FIXTURE AND MECHANICAL SERVICE SUPPORT
D EXPANSION JOINT FOR CEILINGS EXCEEDING 2500 SF

A4 INSTALLATION OF SUSPENDED CEILING (IBC)
1" = 1'-0"

NOTE:
TIE TWO ADJACENT WALL TO CEILING MAIN AND CROSS RUNNERS.



A1 SUSPENDED CEILING BRACING
1" = 1'-0"

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4227 S MERIDIAN
SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y
PROJECT TYPE: CORPORATE NEW CD

8022

PROTOTYPE RELEASE: DCD:

20123279
REGISTERED ARCHITECT
WILLIAM LOUIS PALUCH
STATE OF WASHINGTON

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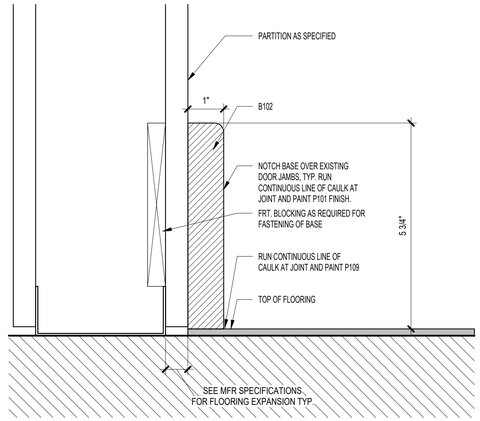
PRCTI20241902

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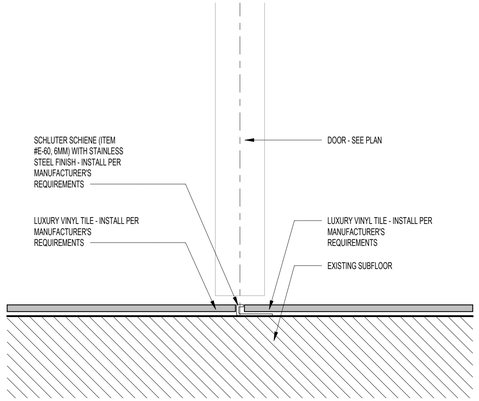
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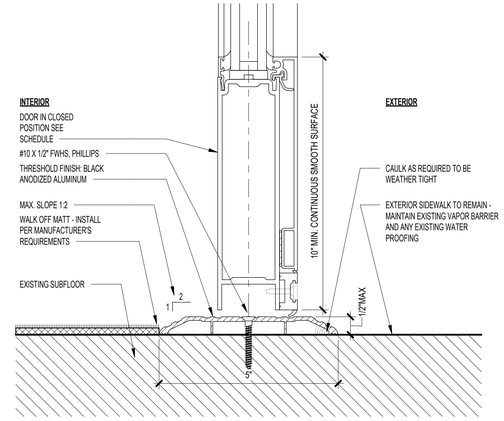
A520



C3 WOOD BASE
6" = 1'-0"



C2 LUXURY VIYNL TILE TO LUXURY VINYL TILE
6" = 1'-0"



C1 EXTERIOR SIDEWALK TO WALK OFF MAT
6" = 1'-0"

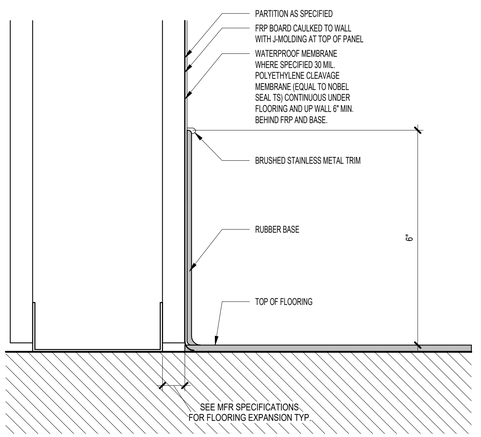
B3 RUBBER BASE
6" = 1'-0"

B2 LUXURY VINYL TILE TO EXTERIOR SIDEWALK
6" = 1'-0"

B1 LUXURY VIYNL TILE TO WALK-OFF MAT
6" = 1'-0"

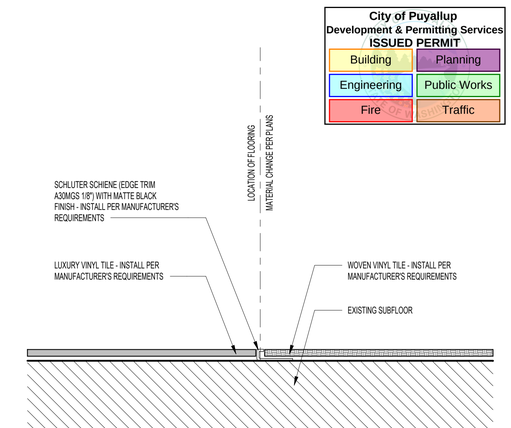
GENERAL NOTES

1. IF EXISTING CONDITIONS VARY, CONTACT ARCHITECT FOR ALTERNATE TRANSITION PROFILES.
2. FLOORING TRANSITIONS TO BE PROVIDED BY G.C. AS INDICATED IN THE RESPONSIBILTY SCHEDULE ON SHEET G001.
3. PREPARE EXISTING FLOOR SURFACE PER MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION OF NEW FLOORING MATERIALS AS INDICATED IN THESE PLANS.
4. SEE MANUFACTURER'S SPECIFICATIONS FOR FLOORING EXPANSION.
5. INSTALL SHEET VINYL WHERE INDICATED ON THE PLAN WHEN REQUIRED BY CODE AND/OR LANDLORD USING THE FOLLOWING INSTALLATION METHOD:
   1. BEFORE PROCEEDING, MAKE SURE THE SUBFLOOR AND WALL ARE SUITABLY PREPARED FOR THE FLOORING INSTALLATION.
   2. INSTALL THE COVE CAP TO THE WALL AT THE REQUIRED HEIGHT FROM THE FLOOR. DEPENDING ON THE CAP SYSTEM, THIS CAN BE EITHER INSTALLED WITH ADHESIVE OR NAILS/STAPLES.
   3. USE EITHER A PATTERN FORM OR TEMPLATE TO CUT THE INSIDE AND OUTSIDE CORNER OF THE WALL SECTION PIECES OF SHEET RUBBER.
   4. APPLY THE COVE BASE ADHESIVE TO BOTH THE WALL AND SUBFLOOR.
   5. LAY THE FLOORING ONTO THE ADHESIVE AND FORM THE COVE AT THE WALL INTERSECTION. MAKE SURE NO AIR IS TRAPPED BETWEEN THE SHEET RUBBER AND THE ADHESIVE.
   6. PRESS THE FLOORING INTO THE COVE CAP.
   7. ROLL THE ENTIRE FLOOR WITH A 34-35kg (75-100lb.) SECTION ROLLER. USE A HAND ROLLER FOR THE COVE SECTION.
   8. MAKE ANY FINAL TRIMS AND ADJUSTMENTS TO THE COVE AND CORNERS THEN ROLL AGAIN.
   9. THE SEAMS AND EDGES OF THE INSIDE AND OUTSIDE CORNERS CAN BE SEALED USING ONE OF THE FOLLOWING METHODS: HEAT WELDING OR CHEMICAL WELDING. THESE METHODS CAN BE USED WITH BOTH FLASH COVE AND PRO-TECH COVE SYSTEM INSTALLATIONS.



A3 RUBBER BASE - WET AREAS
6" = 1'-0"

A2 NOT USED



A1 LUXURY VIYNL TILE TO WOVEN VINYL TILE
6" = 1'-0"

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##	DESCRIPTION:	DATE

DATE: 11/13/2024
DRAWN BY: BC

FINISH DETAILS

A530

FLOORING FINISH SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	PRODUCT	STYLE	COLOR	SIZE	FLAME SPREAD / SMOKE DEVELOPMENT	FURNISHED BY	INSTALLED BY	NOTES
F211	SHEET VINYL FLOORING	MOHAWK GROUP	HEALTHY ENVIRONMENTS COLLECTION	GERMORPHIC C2045	MOJAVE #949	144" x 2mm THICK	CLASS A	T-MOBILE	G.C.	INSTALLATION: GLUE DOWN WITH MOHAWK M95.0, OR M700 PLUS ADHESIVE
F212	LVT PLANK FLOORING	MOHAWK	LARGE & LOCAL: M0090	GLUE DOWN-BARRON V3+LS2	839	9.25" W x 59" L PLANK	CLASS A	T-MOBILE	G.C.	MAIN SALES FLOORING. GLUE DOWN; REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS
F213	LVT PLANK FLOORING	MOHAWK	TAKING ROOT	TRANSFIGURATION 2.5	839 VARIATION	18"W X 36" L PLANK, 2.5mm THICK	CLASS A	T-MOBILE	G.C.	BACK OF HOUSE FLOORING. GLUE DOWN; REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS
F502	CARPET FLOORING-DISTRICT MANAGERS OFFICE	MOHAWK (BIGELOW)	RECKLESS	BT353 / QB353	LEATHER JACKET 999	24" X 24"	-	T-MOBILE	G.C.	COLORSTRAND SD NYLON FIBER TYPE, TUFTED CONSTRUCTION, SOLUTION YED, SENTRY PLUS PROTECTIVE TREATMENT
F503	WOVEN ACCENT FLOORING	CHILIWICH	BOUCLE	TILE GLUE DOWN	GREY	6" W X 36" L PLANK	CLASS 1	T-MOBILE	G.C.	SEATING AREA IN FRONT OF PORTAL. GLUE DOWN; REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS
F504	WOVEN ACCENT FLOORING	MOHAWK	SAKIORI	TILE GLUE DOWN	CUSTOM COLOR	6" W X 36" L PLANK	CLASS 1	T-MOBILE	G.C.	SEATING AREA IN FRONT OF PORTAL. GLUE DOWN; REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS
F906	WALK-OFF MAT	MOHAWK	MATTER	SUPREME NAP	DARK GREY	4" HIGH	-	T-MOBILE	G.C.	

TRIM FINISH SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	PRODUCT	STYLE	COLOR	SIZE	FLAME SPREAD / SMOKE DEVELOPMENT	FURNISHED BY	INSTALLED BY	NOTES
B102	WOOD WALL BASE - SALES AREA	PROVIDED BY G.C.	POPLAR BASE WITH EASED EDGE	-	PAINTED P109 BLACK IRON	3/4" X 5 1/2" H	CLASS C	G.C.	G.C.	SALES AREA - MALL REQUIREMENTS
B204	RUBBER WALL BASE - BACK OF HOUSE AND TOILET ROOM(S)	MOHAWK	ELEMENTAL EDGES	RUBBER COVE	GREIGE 846	4" H X 48" X 1/8"	CLASS A	T-MOBILE	G.C.	BACK OF HOUSE AND TOILET ROOM(S)

CEILING FINISH SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	PRODUCT	STYLE	COLOR	SIZE	FLAME SPREAD / SMOKE DEVELOPMENT	FURNISHED BY	INSTALLED BY	NOTES
C101	LAY-IN ACOUSTICAL CEILING SYSTEM - BACK OF HOUSE	ARMSTRONG	FINE FISSURED SECOND LOOK 1761C	FINE FISSURED SECOND LOOK, ANGLED TEGULAR 15/16"	WHITE	24' X 48"	CLASS A	G.C.	G.C.	ARMSTRONG PRELUDE XL, 15/16" TEE GRID.
C105	LAY-IN ACOUSTICAL CEILING SYSTEM - SALES AREA, HALLWAY/VESTIBULE	ARMSTRONG	FINE FISSURED SQUARE LAY-IN	PRELLUDE XL	1728BL BLACK	24' X 24"	CLASS A	G.C.	G.C.	ARMSTRONG PRELUDE XL, 15/16" TEE GRID IN COLOR TECH BLACK

PAINT, WALLCOVERING, AND WINDOW FINISH SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	COLOR	FINISH	FLAME SPREAD / SMOKE DEVELOPMENT	FURNISHED BY	INSTALLED BY	NOTES
P103	PAINT - ACCENT WALL	BENJAMIN MOORE & COMPANY	PEONY 2079-30	WALLS: EGGSHELL	CLASS A	G.C.	G.C.	
P109	BLACK PAINT	BENJAMIN MOORE & COMPANY	BLACK IRON 2120-20	WALLS: EGGSHELL	CLASS A	G.C.	G.C.	
P110	GRAY PAINT (TOILET ROOMS)	SHERWIN WILLIAMS	GRAY MATTERS SW7066	WALLS: SEMI-GLOSS	CLASS A	G.C.	G.C.	
P111	WHITE PAINT	SHERWIN WILLIAMS	PURE WHITE SW7005	WALLS: EGGSHELL - CEILING" FLAT - DOOR AND FRAMES: SEMI-GLOSS	CLASS A	G.C.	G.C.	
P112	GRAY PAINT	SHERWIN WILLIAMS	CYBERSPACE SW7076	WALLS: EGGSHELL - CEILING" FLAT - DOOR AND FRAMES: SEMI-GLOSS	CLASS A	G.C.	G.C.	
P113	PAINT - ACCENT WALL	SHERWIN WILLIAMS	JUNEBERRY SW6573	WALLS: EGGSHELL - CEILING" FLAT - DOOR AND FRAMES: SEMI-GLOSS	CLASS A	G.C.	G.C.	CORRDINATES WITH WALLCOVERING W107
P114	PAINT - SCUFFMASTER	SCUFFMASTER - SCRUBTOUGH	COLOR TO MATCH "PURE WHITE" SW7005	WALLS: EGGSHELL	CLASS A	G.C.	G.C.	WALLS ONLY - USE P111 ON DOORS AND DOOR FRAMES. CONTACT CASSIE KLEIN - CASSIE.KLEIN@WOLFGORDON.COM - (206) 450-3172
P115	PAINT - SCUFFMASTER	SCUFFMASTER - SCRUBTOUGH	COLOR TO MATCH "JUNEBERRY" SW6573	WALLS: EGGSHELL	CLASS A	G.C.	G.C.	WALLS ONLY - USE P111 ON DOORS AND DOOR FRAMES. CONTACT CASSIE KLEIN - CASSIE.KLEIN@WOLFGORDON.COM - (206) 450-3172
P117	PAINT - PRIVACY POD	SCUFFMASTER - SCRUBTOUGH	ELEPHANT EAR SW9168	WALLS: EGGSHELL	CLASS A	G.C.	G.C.	ONE WALL ONLY - BACK WALL PREFERRED - CONTACT: AMBER MATRE, PHONE: (406) 404-4705, EMAIL: AMATRE@KNOLL.COM
P201	PAINT - EXTERIOR - TRIM COLOR	BENJAMIN MOORE & COMPANY	WITCHING HOUR 2120-30	SEMI-GLOSS	CLASS A	LL	LL	EXTERIOR ACCENT BANDING.
P202	PAINT - EXTERIOR - FIELD COLOR	BENJAMIN MOORE & COMPANY	PAPER DOLL CP-485	SEMI-GLOSS	CLASS A	LL	LL	EXTERIOR BUILDING WALLS.
W103	FIBRE - REINFORCED PLASTIC (WHITE)	FORMICA	HARDTOP	MISSON WHITE - 933	-	G.C.	G.C.	
W104	FIBRE - REINFORCED PLASTIC (GRAY)	FORMICA	HARDTOP	961 FOG NG (NATURAL GRAIN)	-	G.C.	G.C.	AT-40 END/TOP. AT-30 BETWEEN SHEETS; COLOR: 100 CLEAR ANODIZED
W107	WALLCOVERING	MDC	CORONADO	ORCHID 3942CR		G.C.	G.C.	INSTALL PER MANUFACTURER'S INSTRUCTIONS
W204	CORNER GUARD - BACK OF HOUSE	WALLGUARD	STAINLESS STEEL	DEFENDER SERIES 2330. 1; 2" WINGS	-	G.C.	G.C.	90 DEGREE, 16 GA. 2"X2"X48"; BACK OF HOUSE CORNER GUARDS - INSTALLATION: MANUFACTURER RECOMMENDED ADHESIVE, MOUNTED ABOVE WALL BASE
W301	SECURITY FILM - CLEAR	LLUMAR	SCL SR PS7	.77" FILM THICKNESS		T-MOBILE	T-MOBILE	TENSILE STRENGTH = 31050 PSI
W302	WINDOW FILM - OPAQUE	AVERY DENNISON	SC 900 OPAQUE	SUPER CAST SERIES		T-MOBILE	T-MOBILE	APPLIED TO INTERIOR SIDE FOR GLAZING
XW205	CORNER GUARD - SALES AREA	TARKETT	BLACK	BLACK	CLASS A	G.C.	G.C.	

ROOM FINISH SCHEDULE

ROOM NAME	FLOOR	TRIM	WALL FINISHES: PLAN				CEILING	NOTES
			TOP	BOTTOM	RIGHT	LEFT		
SALES AREA	F212	B102	W107	P111	P111	P111	C105	SEE A201
CUSTOMER TOILET ROOM	F212	B204	P110/W104	P110/W104	P110/W104	P110/W104	GYP	SEE A401
HALLWAY	F212	B102	P111	P111	P111/ P113/P114	P111	C105	SEE A204
PRIVACY POD	F213	B204	P117	P111	P117	P111	C101	SEE A402
MOP SINK	F213	B204	P114/W103	P114/W103	P114/W103	P114/W103	-	
EMPLOYEE TOILET ROOM	F213	B204	P110/W104	P110/W104	P110/W104	P110/W104	GYP	SEE A401
BREAK ROOM	F213	B204	P111	P111	P103	P111	C101	SEE A202
BACK OF HOUSE	F213	B204	P111	P111	P111	P111	C101	SEE A203
INVENTORY	F213	B204	P111	P111	P111	P111	GYP	
PORTAL	F503	-	-	-	-	-	C105	
ENTRY	F906	-	-	-	-	-	-	

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SOUTH MERIDIAN & 43RD AVE SE
4227 S MERIDIAN SUITE E PUYALLUP, WA 98373

DESIGN TYPE: E1Y
PROJECT TYPE: CORPORATE NEW CD

8022

PROTOTYPE RELEASE: DCD:

20123279 REGISTERED ARCHITECT
WILLIAM LOUIS PALUCH
STATE OF WASHINGTON

11/25/2024

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PRCTI20241902

##	DESCRIPTION:	DATE

DATE: 11/13/2024
DRAWN BY: BC

FINISH SCHEDULE

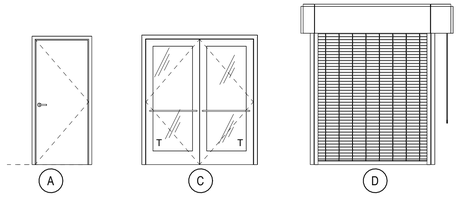
A601

DOOR SCHEDULE

DOOR #	DISCRIPTION	DOOR				FRAME		DETAILS			FIRE RATING	HARDWARE	FURNISHED BY	INSTALLED BY	NOTES
		SIZE	TYPE	MATERIAL	FINISH	MATERIAL	FINISH	SILL	JAMB	HEAD					
1	(E) EXTERIOR ENTRY	5'-10 1/2" X 6'-10 3/4"	C	ALUMINUM / GLASS	MFR	ALUMINUM	MFR	C1/A530	-	-	-	A1, A2, A3, A4, A5, C1, G3, L1	(E)	(E)	1, 2, 3, 4, 5, 6, 29, 30, 31
2	(E) REAR /SERVICE	2'-10" X 7'-0"	A	INSULATED METAL	P111/ MFR	HOLLOW METAL	P111/ MFR	-	-	-	-	A6, C2, E1, H1	(E)	(E)	1, 2, 3, 4, 5, 22, 31
3	CUSTOMER TOILET ROOM	3'-0" X 7'-0"	A	HOLLOW METAL	EXTERIOR P111 INTERIOR P110	HOLLOW METAL KNOCK DOWN	EXTERIOR P111 INTERIOR P110	C2/A530	A1/A511	B1/A511	-	A8, A9, C3, G2, H1, L6	(E)	G.C.	7, 20, 32, 33
4	EMPLOYEE TOILET ROOM	3'-0" X 7'-0"	A	HOLLOW METAL	P111			-	-	-	-	A8, A9, C3, G2, H1, L6	(E)	(E)	7, 20, 32, 33
5	BREAK ROOM	3'-0" X 7'-0"	A	HOLLOW METAL	P111	HOLLOW METAL KNOCK DOWN	P111	C2/A530	A1/A511	B1/A511	-	A8, A9, C3, E3, G1, H1	G.C.	G.C.	7, 21, 32
6	BACK OF HOUSE	3'-0" X 7'-0"	A	HOLLOW METAL	P113	HOLLOW METAL KNOCK DOWN	P113	C2/A530	A1/A511	B1/A511	-	A8, A9, C3, E3, G1, H1	G.C.	G.C.	7, 21, 32
7	INVENTORY ROOM	3'-0" X 7'-0"	A	HOLLOW METAL 16 GAUGE	P111	WELDED	P111	-	A2/A511	B2/A511	-	A8, A9, C3, E2, G1, H1, H2	G.C.	G.C.	10, 15, 16, 17, 18, 19
8	PRIVACY POD	3'-0" X 7'-0"	A	HOLLOW METAL	P111	HOLLOW METAL KNOCK DOWN	P111	-	A1/A511	B1/A511	-	A8, A9, C3, G2, H1, L6	G.C.	G.C.	

DOOR HARDWARE LEGEND

ACCESSORIES				CLOSERS		SPECIALTY HAREWARE		GASKETS		HINGES		LOCKSET	
A1	PUSH/PULL BARS - ROCKWOOD BF 15847-1	A9	IVES 10 X 34 8400 KICK PLATE	C1	LCN 6030	E1	SECURITECH TRIDENT, TEL-210S	G1	IVES FS436 DOORSTOP	H1	MCKINNEY TA2714 NRP 4.5 X 4.5 HINGE	L1	INSTA-KEY MORTISE HOUSING WITH I/C CORE 7-PIN
A2	INTERMEDIATE PIVOT - RIXSON #M19 - OFFSET	A10	IVES #20 SILENCERS	C2	LCN 5010	E2	SURELOCK MCGIL - ZEUS, ZE3C-HMLH-AB-LMLS	G2	IVES WS406 CCV DOORSTOP	H2	HAGER 253** 4 1/2" WIDE PIVOT HINGE	L2	QMI CYLINDER SILVER SHUTTER CURTAIN - LOCK OUTSIDE, INSTA KEY CYLINDER-LOCK
A3	TOP PIVOT - RIXSON #180 - OFFSET	A11	TOP PIVOT - RIXSON 340	C3	LCN 4000 SERIES	E3	TRILOGY KEYPAN ACCESS CONTROL LOCK DL2700IC/26D	G3	DOOR SWEEP	H3	HAGER BB1191 NRP HINGE	L3	QMI CYLINDER SILVER SHUTTER CURTAIN - LOCK INSIDE-OUTSIDE, INSTA KEY CYLINDER-LOCK
A4	BOTTOM PIVOT - RIXSON #147 - OFFSET	A12	CENTER HUNG PIVOT SET - RIXSON 370	C4		E4	DEXTEX ALARM CRASH BAR, V40xEB, EXIT ONLY GLASS STOREFRONT DOORS	G4		H4	BOTTOM PIVOT - RIXSON #147 - OFFSET	L4	ARROW MLX01 SERIES PASSAGE LEVERSET
A5	NATIONAL GUARD US32D, US28, US15 FINISH THRESHOLD	A13	IVES U696 PEEP HOLD	C5		E5	DEXTEX EAX-500, AUDIBLE ALARM USED IF CRASH BAR IS NOT AN OPTION	G5		H5		L5	ARROW MLX82-SB26D306R2IC I/C STOREROOM LEVERSET
A6	NATIONAL GUARD MILL FINISH THRESHOLD	A14	CRL BRUSHED STAINLESS 48" EXTRA LENGTH LADDER STYLE BACK-TO-BACK PULL	C6		E6	RR ACCESS CONTROL: TRILOGY - DL2700IC/26D, & SCHALAGE DOORBOLT OCCUPENCY INDICATOR B571-626	G6		H6		L6	ARROW MLX72 SERIES PRIVACY LEVERSET
A7	NATIONAL GUARD CRL8010ADJ THRESHOLD			C7		E7		G7		H7		L7	ARROW MLX87-SB26D I/C CLASSROOM
A8	IVES SR-64 SILENCERS			C8		E8		G8		H8		L8	



A4 DOOR DETAILS

GENERAL NOTES

A. HARDWARE FINISHES SHALL BE SATIN CHROME 626 UNLESS NOTED OTHERWISE.

B. ALL LOCKSETS AND LATCH SETS SHALL BE LEVER HANDLES.

C. VERIFY ALL EXISTING DOOR HARDWARE TO COMPLY WITH CURRENT CODE. SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. VERIFY EXISTING DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ARE INSTALLED BETWEEN 34"-48" AFF.

D. G.C. TO PURCHASE AND INSTALL CORES PER HARDWARE SCHEDULE FROM T-MOBILE'S VENDOR AT TIME OF STORE TURNOVER.

E. AT EXISTING DOORS TO REMAIN, VERIFY THAT EXISTING DOOR AND HARDWARE MEETS OR EXCEEDS THE REQUIREMENTS OF THESE SPECIFICATIONS. REPLACE AS REQUIRED.

F. DOORS WITH CLOSERS SHALL COMPLY WITH THE FOLLOWING:
1. SLBF MAXIMUM FORCE FOR OPENING DOOR.
2. FROM AN OPEN POSITION OF 70°, DOOR SHALL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.

G. DOORS/FRAMES SHALL BE "TIMELY" (OR EQUAL) FACTORY FINISH TO MATCH P101.

H. EXIT DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE, WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. THE UNLATCHING OF ANY EXIT DOOR SHALL NOT REQUIRE MORE THAN ONE OPERATION. INSTALL ALL PANIC HARDWARE PER PLANS.

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DOOR NOTES LEGEND

1. SIGNAGE BY G.C.; PROVIDE SIGNAGE ABOVE DOOR(S), SEE SHEET G003
2. POSTAL ADDRESS NUMBERS PER LANDLORD REQUIREMENTS.
3. ADA PANIC HARDWARE TO BE INSTALLED ON THE INSIDE WHEN REQUIRED BY LOCAL JURISDICTION.
4. LOCKS SHALL BE KEY-OPERATED WITH INDICATOR TO BE READILY DISTINGUISHABLE AS LOCKED.
5. EXISTING DOOR - VERIFY EXISTING HARDWARE MEETS REQUIREMENTS OF, OR IS EQUAL TO SPECIFIED HARDWARE, REPLACE WITH SPECIFIED HARDWARE AS REQUIRED.
6. EXISTING DOOR - VERIFY EXISTING HARDWARE MEETS REQUIREMENTS OF, OR IS EQUAL TO SPECIFIED HARDWARE. REPLACE WITH SPECIFIED HARDWARE AS REQUIRED.
7. KICK PLATE TO BE PROVIDED ON PUSH SIDE. IF NOT, PROVIDE AND INSTALL NEW KICK PLATE ON PUSH SIDE OF DOOR: IVES 8400 10"V2" LDW630
8. VERIFY ALL EXISTING DOOR HARDWARE TO COMPLY WITH CURRENT CODE.
9. HARDWARE PURCHASED AND INSTALLED BY G.C., DOOR PREP BY G.C.
10. PROVIDE NON REMOVABLE PINS (NRP), PIANO TYPE HINGE OR GEARED HINGE (ROTON) AS APPROVED BY T-MOBILE ON IN-SWINGING DOOR.
11. ROLL DOWN SHUTTER SHALL BE OPERABLE FROM INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT WHILE THE SPACE IS OCCUPIED.
12. SHUTTER SHALL REMAIN SECURED IN THE FULL OPEN POSITION DURING THE PERIOD OF OCCUPANCY BY THE GENERAL PUBLIC.
13. MAX SHUTTER SIZE: 160 SF OR 150" HIGH.
14. PROVIDE RISER AS REQUIRED FOR CARPET INSTALLATION.
15. PROVIDE LATCH GUARD USE "BG" GUARD PLATE.
16. PROVIDE 5 1/2" THROAT.
17. VERTICALLY STIFFED HOLLOW METAL DOOR RECOMMENDED FOR SECURITY AND EASE OF INSTALLATION.
18. LOCK HARDWARE PURCHASED AND INSTALLED BY G.C. THROUGH APPROVED VENDOR, CUSHMAN & WAKEFIELD.
19. MOUNT AT UPPER CORNER OF DOOR AND JAMB.
20. PROVIDE APPROPRIATE RESTROOM SIGNAGE, SEE SHEET G002 & A401.
21. LOCK HARDWARE PURCHASED AND INSTALLED BY SECURITY SOURCE (VENDOR), DOOR PREP BY G.C.
22. ORDER 6" BOTTOM BAR WITH 60" BEVEL (ALTERNATE OPTION: 10" BOTTOM BAR), 7-PIN KEYED CYLINDERS (CONSTRUCTION CORES) WITH THUMBTURNS ON INSIDE, AND PATCH HINGES WITH DOOR.
23. PROVIDE LOUVRE VENT IN DOOR U.O.N. SEE MECHANICAL SHEETS.
24. G.C. TO PAINT 4 INCH "NO STORAGE ON DOOR".
25. PROVIDE IC-7PIN MORTISE HOUSING AND INSTAKEY CORE.
26. TAMPER-PROOF PEEP HOLE AS REQUIRED - WIDE ANGLE SET AT 60" A.F.F. UL LISTED FOR 90 MINUTE FIRE DOOR. NO PEEP HOLES ON EXTERIOR DOORS.
27. SELF-LATCHING LOCK HARDWARE PURCHASED AND INSTALLED THROUGH SECURITY SOURCE (VENDOR) BY G.C.. DOOR PREP BY G.C.
28. SUPPLY COMPLETE EXIT DEVICE PART NUMBER BASED ON DOOR SIZE AS REQUIRED. 36" DOOR = 36, NARROW STILE = NS, DOUBLE DOOR = 94. FOR NARROW STILE, ADD NARROW STILE KIT # 101879-1.
29. BOTTOM RAIL TO BE 10" MINIMUM.
30. PROVIDE ADDITIONAL INTERMEDIATE PIVOT FOR DOOR 8'-0" AND TALLER.
31. DO NOT PROVIDE HOLD OPEN DEVICE ON DOOR IF TACTILE SIGNAGE IS MOUNTED TO DOOR.
32. PAINT RESTROOM AND BOH EXTERIOR DOOR AND FRAME (SALES SIDE) TO MATCH PAINT IN VESTIBULE.
33. PAINT RESTROOM INTERIOR DOOR AND FRAME (TOILET SIDE) P110

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4227 S MERIDIAN
SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y
PROJECT TYPE: CORPORATE NEW CD

8022

PROTOTYPE RELEASE: DCD:

20123279 REGISTERED ARCHITECT
WILLIAM LOUIS PALUCH
STATE OF WASHINGTON

11/25/2024

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PRCTI20241902

##	DESCRIPTION:	DATE

DATE: 11/13/2024
DRAWN BY: BC

DOOR SCHEDULE

A603

FURNITURE AND EQUIPMENT SCHEDULE

Model	DESCRIPTION	QUANTITY	CONDITION	MANUFACTURER	MATERIAL	POWER	DATA	PROVIDED BY	INSTALLED BY	NOTES
EG101	MICROWAVE	1	NEW	OFFICE DEPOT/STAPLES	GRAY / SILVER	YES	NO	T-MOBILE	G.C.	
EG104	REFRIGERATOR	1	NEW	-	18 CU.FT, BLACK, FREEZER ON TOP	YES	NO	G.C.	G.C.	
EG106	WATER COOLER	1	NEW	-		YES	NO	T-MOBILE	T-MOBILE	
EG107	UTILITY / MOP SINK	1	NEW	-		NO	NO	G.C.	G.C.	
ES104	FIREKING INVENTORY SAFE	1	NEW	FIRE KING						
ES105	CASH SAFE	1	NEW	FIRE KING		NO	NO	T-MOBILE	T-MOBILE	
ET102	MULTIFUNCTION PRINTER AND STAND	1	NEW	XEROX		YES	YES	T-MOBILE	T-MOBILE	
ET103	COLOR PRINTER	1	NEW	XEROX		YES	YES	T-MOBILE	T-MOBILE	
ET202	LAN RACK CABINET	1	NEW	TRIPP-LITE	BLACK STEEL	YES	NO	T-MOBILE	T-MOBILE	
ET410	50" BACK OF HOUSE MONITOR	1	NEW	SAMSUNG		YES	YES	T-MOBILE	T-MOBILE	
ET417	WORKSHOP TABLE SERVICE MONITOR 22"	2	NEW	DELL		YES	YES	T-MOBILE	T-MOBILE	
FF609	PRIVACY POD CHAIR	2	NEW	CATALYST	FABRIC MAHARAM, LEGS WALNUT	NO	NO	T-MOBILE	T-MOBILE	
FG111	MANAGERS DESK	1	NEW	CATALYST	LAMINATE TOP, PC STEEL BASE	YES	YES	T-MOBILE	T-MOBILE	
FG112	TRAINING CART	1	NEW	CATALYST	GRAY COLOR	NO	YES	T-MOBILE	T-MOBILE	
FG113	BREAK ROOM TABLE	2	NEW	CATALYST	WHITE WOOD LAMINATE	NO	NO	T-MOBILE	T-MOBILE	
FG221	PRIVACY POD TABLE	1	NEW	CATALYST	TOP: KODIAK LAMINATE, BASE: ONYX POWDER COAT	NO	NO	T-MOBILE	T-MOBILE	
FG223	PRIVACY POD CHAIR	2	NEW	CATALYST	FABRIC: STORM 41309, LEGS: WALNUT	NO	NO	T-MOBILE	T-MOBILE	
FG225	MANAGERS CHAIR	1	NEW	CATALYST	BLACK TAILORED 23512	NO	NO	T-MOBILE	T-MOBILE	
FG226	BOH NESTING CHAIR	9	NEW	CATALYST	MATRIX, COAL	NO	NO	T-MOBILE	T-MOBILE	
FG304	SHELVING UNITS	4	NEW	HDX - SILVER 6-TIER HEAVY DUTY METAL WIRE SHELVING UNIT (48"W x72"H x 18"D)	CHROME	NO	NO	G.C.	G.C.	
FG305	LOCKER	3	NEW	DIGILOCK		NO	NO	T-MOBILE	G.C.	
FG312	36" 4 DRAWER LATERAL FILE	1	NEW	CATALYST	SLATE GREY	NO	NO	T-MOBILE	T-MOBILE	
XE100	75" DIGITAL PORTAL	1	NEW	SAMSUNG		YES	YES	T-MOBILE	RT	XXXX
XE101	55" T-MOBILE SERVICES BENTO	1	NEW	SAMSUNG		TES	YES	T-MOBILE	RT	XXXX
XE102	32" OEM SCREEN	2	NEW	SAMSUNG		YES	YES	T-MOBILE	RT	XXXX
XE200	BACK WALL LARGE	1	NEW	NANO LED		YES	YES	T-MOBILE	RT	XXXX
XE203	CLOUD SMALL	1	NEW	NANO LED		YES	YES	CONVERGENT	CONVERGENT	XXXX
XE204	OEM HEADER	3	NEW	SAMSUNG		YES	YES	T-MOBILE	RT	XXXX
XE205	<varies>	4	NEW	SAMSUNG		YES	YES	T-MOBILE	RT	XXXX

GRAPHIC SCHEDULE

ENTITY NAME	DESCRIPTION	QUANTITY
D18	55" T-MOBILE SERVICES BENTO	1
D24	BRAND FOCAL LARGE	1
D26	DFW DOUBLE SIDED EXTERIOR MONITOR PRIMARY	1
D27	DFW DOUBLE SIDED EXTERIOR MONITOR SECONDARY	1
D28	DFW DOUBLE SIDED INTERIOR MONITOR PRIMARY	1
D29	DFW DOUBLE SIDED EXTERIOR MONITOR PRIMARY	1
D31	75" DIGITAL PORTAL PRIMARY	1
D40	BENTO HEADER - OEM 1	1
D41	BENTO HEADER - OEM 2	1
D42	BENTO HEADER - OEM 3	1
D50	32" OEM 1	1
D51	32" OEM 2	1
D61	WELCOME CLOUD SMALL LEFT	1
M50	A-FRAME	1

FIXTURE SCHEDULE

Model	DESCRIPTION	QUANTITY	CONDITION	MATERIAL	PROVIDED BY	INSTALLED BY	NOTES
		2					
FF501	A-FRAME SIGN	1	NEW	SILVER SINTRA BACKER	T-MOBILE	T-MOBILE	
XF212	OEM TABLE - E1Y	2	NEW	COUNTERTOP: WILSONART YUKON RIVERSTONE / LEGS AND SKIRT: ARBORITE ESSENTIAL ARTISAN WALNUT / DROP TRAY: PC AKZONOBEL BLACKSAND / LED LIGHTING MAGENTA BAND	T-MOBILE	FIXTURE VENDOR	
XF305	WELCOME CLOUD SMALL LEFT	1	NEW	FRAME: PC CUSTOM COLOR MAGENTA / RESIN PANELS: 3FORM LID-1068528 SPECIALTY CUSTOM COLOR CHROMA 1/4 IN. VELLUM	T-MOBILE	FIXTURE VENDOR	
XF310	DFW FREESTANDING, DOUBLE-SIDED MONITOR, 55" - E1Y	2	NEW	POWERCOATED BLACK SAND	T-MOBILE	T-MOBILE	
XF407	ADA WORKSHOP TABLE - E1Y	1	NEW	COUNTERTOP: WILSONART YUKON RIVERSTONE / LEGS AND SKIRT: ARBORITE ESSENTIAL ARTISAN WALNUT / DROP TRAY: PC AKZONOBEL BLACKSAND	T-MOBILE	FIXTURE VENDOR	
XF408	ADA WORKSHOP TABLE WITH MONITOR - E1Y	1	NEW	COUNTERTOP: WILSONART YUKON RIVERSTONE / LEGS AND SKIRT: ARBORITE ESSENTIAL ARTISAN WALNUT / DROP TRAY: PC AKZONOBEL BLACKSAND	T-MOBILE	FIXTURE VENDOR	
XF409	STANDARD HEIGHT WORKSHOP TABLE - E1Y	1	NEW	COUNTERTOP: WILSONART YUKON RIVERSTONE / LEGS AND SKIRT: ARBORITE ESSENTIAL ARTISAN WALNUT / DROP TRAY: PC AKZONOBEL BLACKSAND	T-MOBILE	FIXTURE VENDOR	
XF410	STANDARD HEIGHT WORKSHOP TABLE WITH MONITOR - E1Y	1	NEW	COUNTERTOP: WILSONART YUKON RIVERSTONE / LEGS AND SKIRT: ARBORITE ESSENTIAL ARTISAN WALNUT / DROP TRAY: PC AKZONOBEL BLACKSAND	T-MOBILE	FIXTURE VENDOR	
XF412	PARALLON CAFE TABLE	2	NEW	BLACK FLAT EDGE, W/ BLACK DISC BASE	T-MOBILE	T-MOBILE	
XF413	COLEURI CHAIR	4	NEW	POLY COLOR: ANTHRACITE, TEXTILE: BRISA ORIGINAL 533-5749 BLACK ONYX	T-MOBILE	T-MOBILE	
XF423	DEMO PHONE CABINET TOP	1	NEW	ARBORITE W2011 AW ESSENTIAL ARTISAN WALNUT	T-MOBILE	FIXTURE VENDOR	
XF424	OPS CABINET BASE	1	NEW	ARBORITE W2011 AW ESSENTIAL ARTISAN WALNUT	T-MOBILE	FIXTURE VENDOR	
XF425	OPS CABINET TOP	1	NEW	ARBORITE W2011 AW ESSENTIAL ARTISAN WALNUT	T-MOBILE	FIXTURE VENDOR	
XF426	DEMO DEPOT BASE CABINET - E1Y	1	NEW	ARBORITE W2011 AW ESSENTIAL ARTISAN WALNUT	T-MOBILE	FIXTURE VENDOR	
XF447	PERCHRAIL - E1Y	1	NEW	COUNTERTOP: WILSONART RIVERSTONE / LEGS AND SKIRT: ARBORITE ESSENTIAL ARTISAN WALNUT / TRAY: PC AKZONOBEL BLACKSAND	T-MOBILE	FIXTURE VENDOR	
XF448	WELCOME DESK - LEFT	1	NEW	COUNTERTOP AND LEGS: 3FORM SPECIALTY CUSTOM COLOR CHROMA / TABLE SKIRT AND SIDE LEGS: 3FORM SPECIALTY CUSTOM COLOR CHROMA VELLUM F04 / ACCESS PANELS: AKZONOBEL BLACKSAND	T-MOBILE	FIXTURE VENDOR	
XF612	PONDER COUNTER STOOL	8	NEW	ULTRAFABRICS/BRISA/HAZEY GRADE E FAUX LEATHER	T-MOBILE	T-MOBILE	
XF613	PONDER BAR STOOL	8	NEW	ULTRAFABRICES/BRISA/HAZEY GRADE E FAUX LEATHER	T-MOBILE	T-MOBILE	
XF621	CUSTOM OTTOMAN	3	NEW	DESIGNTEX/BARKCLOTH PINK LEATHER HANDLE BLACK WEST TAN	T-MOBILE	T-M0BILE	
XF630	SATCHET CORE CHAIR	2	NEW	CLEAR WALNUT LEG, ULTRAFABRICS/FRESCO/FLINT, PIPING DTEX SILICONE RANGE/METEOR	T-MOBILE	T-MOBILE	
XF640	Q6 SIDE TABLE	2	NEW	BLACK MATTE POWER COAT, BLACK PLAM TOP	T-MOBILE	T-MOBILE	
XF902	BACKER PANEL - BENTO BOX	2	YES		T-MOBILE	FIXTURE VENDOR	
XF903	BACKER PANEL - CASE SHOP	1					
XF904	BACKER PANEL - GRAB AND GO	1					
XF907	PORTAL CLOUD AT WALL - E1Y	1	NEW	SIDE RESIN PANELS: 3FORM SPECIALTY COLOR CHROMA 1/2 IN. VELLUM 04 / FRONT PANEL: 3FORM LID- CMP CUSTOM HINT TEXTURE HIBISCUS V24 + BLUE LOW AVALANCHE D01 3/8 IN.	T-MOBILE	FIXTURE VENDOR	
XF908	PORTAL CLOUD FREE FLOATING - E1Y	3	NEW	SIDE RESIN PANELS: 3FORM SPECIALTY COLOR CHROMA 1/2 IN. VELLUM 04 / PERFORATED PANEL: CUSTOM COLOR MAGENTA	T-MOBILE	FIXTURE VENDOR	
XW180	OEM BENTO 1 LEFT - E1Y	1	NEW	WILSONART YUKON RIVERSTONE/WILSONART HPL BLACK VELVET / ARBORITE ESSENTIAL ARTISAN WALNUT / AKZONOBEL BLACKSAND / 3FORM CHROMA VELLUM	T-MOBILE	FIXTURE VENDOR	
XW183	OEM BENTO 2 RIGHT - E1Y	1	NEW	WILSONART YUKON RIVERSTONE/WILSONART HPL BLACK VELVET / ARBORITE ESSENTIAL ARTISAN WALNUT / AKZONOBEL BLACKSAND / 3FORM CHROMA VELLUM	T-MOBILE	FIXTURE VENDOR	
XW184	OEM BENTO 3 - E1Y	1	NEW	WILSONART YUKON RIVERSTONE/WILSONART HPL BLACK VELVET / ARBORITE ESSENTIAL ARTISAN WALNUT / AKZONOBEL BLACKSAND / 3FORM CHROMA VELLUM	T-MOBILE	FIXTURE VENDOR	
XW185	T-MOBILE SERVICES BENTO - E1Y	1	NEW	WILSONART YUKON RIVERSTONE/WILSONART HPL BLACK VELVET / ARBORITE ESSENTIAL ARTISAN WALNUT / AKZONOBEL BLACKSAND / 3FORM CHROMA VELLUM	T-MOBILE	FIXTURE VENDOR	
XW186	OTHER PRODUCT BENTO - E1Y	1	NEW	WILSONART YUKON RIVERSTONE/WILSONART HPL BLACK VELVET / ARBORITE ESSENTIAL ARTISAN WALNUT / AKZONOBEL BLACKSAND / 3FORM CHROMA VELLUM	T-MOBILE	FIXTURE VENDOR	
XW225	CASE SHOP WALL - E1Y	2	NEW		T-MOBILE	FIXTURE VENDOR	
XW302	BOPIS	1	NEW	CABINET FACES: ARBORITE W2011 AW ESSENTIAL ARTISAN WALNUT	T-MOBILE	FIXTURE VENDOR	
XW303	GRAB AND GO	1	NEW	SURROUND AND CABINET FACES: ARBORITE W2011 AW ESSENTIAL ARTISAN WALNUT / PEG HOOKS: PC AKZONOBEL BLACKSAND	T-MOBILE	FIXTURE VENDOR	
XW472	DIGITAL PORTAL WALL - E1Y	1	NEW	SIDE RESIN PANELS: 3FORM SPECIALTY COLOR CHROMA 1/2 IN. VELLUM 04 / FRONT PANEL: 3FORM LID- CMP CUSTOM HINT TEXTURE HIBISCUS V24 + BLUE LOW AVALANCHE D01 3/8 IN. / FIXTURE BASE AND DIGITAL SHROUD: PC AKZONOBEL BLACKAND	T-MOBILE	FIXTURE VENDOR	
XW474	BRAND FOCAL DIGITAL WALL LARGE - E1Y	1	NEW	SIDE RESIN PANELS: 3FORM SPECIALTY CUSTOM COLOR CHROMA VELLUM F04 / FRONT PANEL: 3FORM LID-CMP CUSTOM HINT TEXT HIBISCUS V24 + BLUE LOW + AVALANCHE D01 / FIXTURE BASE AND DIGITAL SHROUD: PC AKZONOBEL BLACKSAND	T-MOBILE	FIXTURE VENDOR	

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DESIGN TYPE: E1Y
PROJECT TYPE: CORPORATE NEW CD

8022

PROTOTYPE RELEASE: DCD:

20123279 REGISTERED ARCHITECT
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11/25/2024

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##	DESCRIPTION:	DATE

DATE: 11/03/22
DRAWN BY: Author

FIXTURE, FURNITURE, AND EQUIPMENT SCHEDULE

A604

DIVISION 0 - CONTRACT REQUIREMENTS

007200 GENERAL CONDITIONS

A. UNLESS OTHERWISE AGREED UPON BY CONTRACTOR AND T-MOBILE, IN PART OR IN WHOLE, THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AIA DOCUMENT A201, 1997 EDITION, SHALL GOVERN THE WORK.

DIVISION 1 - GENERAL REQUIREMENTS

011000 SUMMARY

A. THIS SPECIFICATION IDENTIFIES REQUIREMENTS FOR SEVERAL PROJECTS, AND MAY CONTAIN ELEMENTS WHICH DO NOT APPLY TO THIS PARTICULAR PROJECT. REFER TO THE DRAWINGS TO DETERMINE WHETHER THE SPECIFIED ELEMENT APPLIES TO THIS PROJECT.
B. COMPLY WITH CODES, ORDINANCES, RULES, REGULATION, ORDERS AND OTHER LEGAL REQUIREMENTS OF PUBLIC AUTHORITIES WHICH GOVERN THE PERFORMANCE OF THE WORK.
C. DEFINITIONS:
1. LANDLORD: MALL DEVELOPER OR BUILDING OWNER.
2. T-MOBILE: T-MOBILE OR T-MOBILES REPRESENTATIVE (JLL), TENANT.
3. USE OF PREMISES: COORDINATE WITH T-MOBILE.
4. SPECIAL WORK REQUIREMENTS (INCLUDING ALLOWABLE TIMES FOR WORK): COORDINATE WITH T-MOBILE.
5. WORK PERFORMED BY T-MOBILE UNDER SEPARATE CONTRACTS (FOIO): COORDINATE WITH T-MOBILE.
6. T-MOBILE FURNISHED CONTRACTOR INSTALLED (FOIC) ITEMS: COORDINATE WITH T-MOBILE.
7. APPLICATIONS FOR PAYMENT: COORDINATE WITH T-MOBILE.
8. REQUESTS FOR INTERPRETATION (RFIS): RFIS SHALL BE SUBMITTED TO T-MOBILE'S REPRESENTATIVE WHO WILL CONTACT THE ARCHITECT ON AN AS-NEEDED BASIS.
9. "PROVIDE" MEANS TO FURNISH, FABRICATE, DELIVER, INSTALL AND ERECT, AND CONNECT, INCLUDING ALL LABOR, MATERIALS, EQUIPMENT, APPARATUS, APPURTENANCES AND EXPENSES NECESSARY TO COMPLETE IN PLACE, READY FOR OPERATION AND USE, UNDER THE TERMS OF THE CONTRACT DOCUMENTS.
10. "AS SHOWN", "AS DETAILED", "AS INDICATED" OR WORDS OF SIMILAR IMPORT MEAN AS INDICATED ON THE DRAWINGS.
11. "APPROVED EQUAL", "OR EQUAL", "OR APPROVED EQUAL" MEANS AS APPROVED AND ACCEPTED BY THE ARCHITECT AS DEFINED IN SECTION 01600 OF THE SPECIFICATIONS.
12. "SHALL" IS MANDATORY.

013119 PROJECT MEETINGS

A. PROJECT MEETINGS BETWEEN T-MOBILE AND CONTRACTOR WILL BE SCHEDULED BY T-MOBILE
B. ARCHITECT'S ATTENDANCE WILL BE UPON WRITTEN REQUEST OF T-MOBILE'S REPRESENTATIVE.

014000 - PROJECT COORDINATION

A. THE G.C. SHALL BE RESPONSIBLE FOR ALL PROJECT COORDINATION. COORDINATE THE WORK OF ALL SUBCONTRACTORS IN CONJUNCTION WITH T-MOBILE'S CONTRACTORS AND VENDORS.
B. PREPARE DETAILED SCHEDULE OF OPERATIONS OF ALL SUBCONTRACTORS ON THE PROJECT AND MONITOR SCHEDULES AS WORK PROGRESSES.
C. REPORT NON-COMPLIANCE TO ARCHITECT, WITH RECOMMENDATION TO REMEDY.
D. MAINTAIN COST ACCOUNTING RECORDS FOR AUTHORIZED WORK PERFORMED, ACTUAL COSTS FOR LABOR AND MATERIALS, AND OTHER WORK REQUIRING ACCOUNTING RECORDS.
E. REVIEW SUBCONTRACTOR'S REQUESTS FOR CHANGES AND FOR SUBSTITUTIONS, SUBMIT RECOMMENDATIONS TO T-MOBILE CONSTRUCTION PROJECT MANAGER AND PROCESS CHANGE ORDERS.
F. PERMITS AND FEES: VERIFY THAT SUBCONTRACTORS HAVE OBTAINED ALL PERMITS REQUIRED FOR INSPECTIONS AND TEMPORARY FACILITIES.
G. INTERPRETATIONS OF CONTRACT DOCUMENTS: CONSULT WITH ARCHITECT TO OBTAIN INTERPRETATIONS, ASSIST IN RESOLUTION OF QUESTIONS WHICH ARISE. TRANSMIT WRITTEN INTERPRETATIONS TO CONCERNED PARTIES.

SECTION 014500 - QUALITY CONTROL

A. STANDARDS: COMPLY WITH INDUSTRY STANDARDS EXCEPT WHEN MORE RESTRICTIVE TOLERANCES OR SPECIFIED REQUIREMENTS INDICATE MORE RIGID STANDARDS OR MORE PRECISE WORKMANSHIP.
B. PERFORM ALL WORK TO MEET OR EXCEED THE REQUIREMENTS OF ALL APPLICABLE CODES, ORDINANCES, LAWS, REGULATIONS, SAFETY ORDERS, AND DIRECTIVES FROM AUTHORITIES HAVING JURISDICTION OVER THE WORK.
C. PERFORM WORK WITH PERSONS QUALIFIED TO PRODUCE WORKMANSHIP OF SPECIFIED QUALITY.
D. INSTALL PRODUCTS IN ACCORDANCE WITH THE MANUFACTURER / RECOMMENDATIONS. WHERE CONFLICT BETWEEN MANUFACTURER / RECOMMENDATIONS AND THE SPECIFIED REQUIREMENTS IS DISCOVERED, NOTIFY THE ARCHITECT IMMEDIATELY.

015000 TEMPORARY FACILITIES AND CONTROL

A. ALL TEMPORARY FACILITIES AND CONTROLS, INCLUDING THE FOLLOWING, ARE TO BE COORDINATED ENTIRELY WITH T-MOBILE.
1. TEMPORARY UTILITIES, INCLUDING ELECTRICITY, LIGHTING, HEATING AND VENTILATION, WATER AND TELEPHONE.
2. DUST CONTROL.
3. BARRIERS AND ENCLOSURES.
4. SECURITY.
5. CONTRACTOR DESIGNATED AREAS, INCLUDING PARKING AND STORAGE.

016000 PRODUCT REQUIREMENTS

A. SUBSTITUTIONS
1. SUBSTITUTIONS WILL NOT BE ALLOWED UNLESS APPROVED BY T-MOBILE.
2. ARCHITECT WILL DETERMINE ACCEPTABILITY OF PROPOSED SUBSTITUTION, AND WILL NOTIFY CONTRACTOR OF ACCEPTANCE OR REJECTION WITHIN A REASONABLE TIME IN WRITING.
3. SUBSTITUTIONS WILL NOT BE CONSIDERED IF THEY ARE INDICATED OR IMPLIED ON SHOP DRAWINGS OR PROJECT DATA SUBMITTALS WITHOUT FORMAL WRITTEN REQUEST, OR IF ACCEPTANCE WILL REQUIRE SUBSTANTIAL REVISION OF CONTRACT DOCUMENTS.
B. KEEP FINISHED SURFACES CLEAN AND UNMARRED UNTIL THE DATE OF ACCEPTANCE.
C. PRODUCTS SHALL BE NEW, OF THE TYPE SPECIFIED, AND FURNISHED IN AMPLE QUANTITIES TO FACILITATE PROPER AND TIMELY EXECUTION OF THE WORK.

017329 CUTTING AND PATCHING

A. REPAIR EXISTING SURFACES AND CONSTRUCTION AS NECESSARY TO MAKE WORK COMPLETE, WITH ALL COMPONENTS MATCHING AND CONSISTENT.
B. PROVIDE A SMOOTH, EVEN, AND INVISIBLE TRANSITION TO NEW CONSTRUCTION.
C. SEAL ALL PENETRATIONS IN WALLS, FLOORS AND CEILINGS AS REQUIRED TO MAINTAIN FIRE RATING AND BY JURISDICTION HAVING AUTHORITY. MAJOR PATCHING PROCEDURES SHALL BE REVIEWED WITH THE
D. T-MOBILE AND THE BUILDING OWNER, PRIOR TO PROCEEDING.
E. EXISTING SPRAYED FIREPROOFING WHERE OCCURS: PATCH AND REPAIR EXISTING SPRAYED FIREPROOFING TO MATCH THE FIRE-RATING OF THE EXISTING CONSTRUCTION. HAND PATCH USING UL-APPROVED MATERIALS AND PROCEDURES.
F. PATCHING OF EXISTING CONCRETE SLABS ON GRADE: IN ACCORDANCE WITH SECTION 030133.
G. X-RAY CONCRETE SLABS PRIOR TO ANY SAW-CUTTING FOR AREAS WITH POSSIBLE POST TENSIONED SLABS

017700 CLOSEOUT PROCEDURES

A. AS-BUILT DOCUMENTS: RECORD DOCUMENTS, PROVIDED BY THE CONTRACTOR, WHICH EXACTLY INDICATE "AS-BUILT" CONDITIONS, WILL BE AS REQUIRED BY T-MOBILE AND LOCATED PER NOTES ON THE FLOOR PLAN SHEETS.
B. OPERATION AND MAINTENANCE MANUALS WILL BE AS REQUIRED BY T-MOBILE.
C. PROJECT CLOSEOUT DOCUMENTS, INCLUDING WARRANTY, GUARANTEES AND REQUEST FOR FINAL PAYMENT, WILL BE AS REQUIRED BY T-MOBILE.

DIVISION 2 - EXISTING CONDITIONS

024119 SELECTIVE DEMOLITION

A. DEMOLISH IN AN ORDERLY AND CAREFUL MANNER AS REQUIRED TO ACCOMMODATE THE WORK. WHERE DEMOLITION EXCEEDS THAT INDICATED, VERIFY SUCH DEMOLITION WITH THE ARCHITECT PRIOR TO PROCEEDING.
B. PROTECT EXISTING STRUCTURAL MEMBERS. CONTACT THE ARCHITECT PRIOR TO MODIFYING STRUCTURAL MEMBERS BEYOND THE EXTENT INDICATED. CEASE OPERATIONS AND NOTIFY THE ARCHITECT IMMEDIATELY IF CONTINUED DEMOLITION OPERATIONS MIGHT ENDANGER THE EXISTING STRUCTURE.
C. DURING DEMOLITION OPERATIONS, NOTIFY THE ARCHITECT OF ALL CONDITIONS WHICH DIFFER SUBSTANTIALLY FROM THOSE INDICATED, SPECIFIED, OR EXPECTED. NOTIFY THE ARCHITECT IF PREVIOUSLY UNKNOWN OPERATIONAL, OR POTENTIALLY OPERATIONAL ELEMENTS, ARE UNCOVERED DURING DEMOLITION OPERATIONS. PERFORM NO DEMOLITION IN SUCH AREAS, UNLESS APPROVED BY THE ARCHITECT.
D. PROVIDE TEMPORARY SHORING AS REQUIRED TO SUPPORT EXISTING CONSTRUCTION AGAINST MOVEMENT OR OVERLOAD DURING DEMOLITION OPERATIONS, UNTIL PERMANENT SUPPORTS ARE IN PLACE.
E. EXCEPT WHERE NOTED OR SPECIFIED OTHERWISE, TAKE POSSESSION OF MATERIALS BEING DEMOLISHED, AND IMMEDIATELY REMOVE FROM SITE. DO NOT OVERLOAD EXISTING CONSTRUCTION TO REMAIN WITH DEMOLISHED MATERIALS.
F. CAREFULLY REMOVE, STORE, AND PROTECT ALL MATERIALS AND COMPONENTS TO BE REUSED.
G. WHERE POSSIBLE WITHOUT DAMAGE, REMOVE, STORE, AND PROTECT EXISTING MATERIALS AND COMPONENTS NOT NOTED FOR REMOVAL, WHICH IF REMOVED, WOULD FACILITATE THE NEW CONSTRUCTION AND RECONDITIONING.
H. CAREFULLY REMOVE, PROTECT, AND TURN OVER AS DIRECTED, MATERIALS AND COMPONENTS CLAIMED BY T-MOBILE FOR SALVAGE. PRIOR TO DEMOLITION, CONTACT THE T-MOBILE TO DETERMINE WHICH ITEMS WILL BE CLAIMED.
I. WHERE CUT EDGES OF THE EXISTING CONSTRUCTION WILL BE VISIBLE IN THE COMPLETED WORK, CUT IN UNIFORM STRAIGHT LINES. CONCRETE AND MASONRY SHALL BE SAW CUT OR CORE DRILLED.
J. REPAIR ALL DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED, AT NO ADDITIONAL COST TO T-MOBILE.
K. UTILITY LINE DEMOLITION:
1. VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO DEMOLITION.
2. ABANDONED UNDER-SLAB CONDUIT SHALL BE CUT OFF BELOW THE FINISHED SURFACE LINE, AND ALL CONDUCTORS SHALL BE REMOVED. PATCH AND FILL THE OPENING FLUSH WITH THE FINISH.
3. ABANDONED ELECTRICAL CONDUCTORS SHALL BE REMOVED BACK TO THE BRANCH CIRCUIT PANEL, UNLESS INDICATED OTHERWISE. ABANDONED CONDUIT WHICH IS EXPOSED AND READILY ACCESSIBLE SHALL BE REMOVED. LEAVE ABANDONED CONDUIT WHICH IS CONCEALED IN EXISTING CONSTRUCTION TO REMAIN.
4. ABANDONED UNDER-SLAB PIPING SHALL BE REMOVED AND CUT OFF FLUSH WITH THE FLOOR LINE. PATCH FLUSH WITH THE FLOOR.
5. ABANDONED PIPING WHICH IS EXPOSED AND READILY ACCESSIBLE SHALL BE REMOVED. LEAVE ABANDONED PIPING WHICH IS CONCEALED IN EXISTING CONSTRUCTION TO REMAIN. CAP ALL EXPOSED ENDS.
6. INDICATE LOCATION OF DISCONNECTED UTILITIES ON THE PROJECT RECORD DRAWINGS AS SPECIFIED IN DIVISION 01.
L. LEAVE SITE IN A CONDITION ACCEPTABLE TO T-MOBILE AT ALL TIMES. REMOVE DEMOLISHED MATERIALS FROM SITE DAILY AS WORK PROGRESSES. DO NOT OVERLOAD EXISTING STRUCTURE WITH DEMOLISHED MATERIALS.
M. REMOVAL OF BONDED FLOOR FINISHES:
1. SCRAPE, GRIND AND OTHERWISE REMOVE EXISTING FLOOR FINISH AND BONDING MATERIALS AS NECESSARY TO RECEIVE NEW FLOOR FINISHES.
2. PREPARED SURFACE SHALL PRESENT A UNIFORM FLAT SURFACE READY TO RECEIVE THE NEW FLOOR FINISHES FREE OF TELEGRAPHING AND OTHER SURFACE IRREGULARITIES.
3. SLOPE SHALL NOT TO EXCEED 1/8" IN 10 FEET. THE FLOOR STRUCTURE MUST HAVE LESS THAN 1/64" PER FOOT DEFLECTION IN ORDER TO ACCEPT TENANT'S FLOOR FINISHES.
4. FILL EXCESSIVE VOIDS OR VARIATIONS GREATER THAN IN THE SUBFLOOR 1/8" IN 10' AS SPECIFIED IN DIVISION 03.
5. NEW FLOOR FINISHES SHALL NOT BE INSTALLED OVER EXISTING FLOOR FINISH MATERIALS UNLESS APPROVED OTHERWISE.

DIVISION 3 - CONCRETE

030133 CONCRETE SLAB PATCHING

A. QUALITY ASSURANCE: PERFORM WORK IN ACCORDANCE WITH ACI 301, AS APPLICABLE.
B. CONCRETE MATERIALS:
1. CEMENT: ASTM C150, NORMAL - TYPE 1 PORTLAND CEMENT; GRAY COLOR.
2. NORMAL WEIGHT FINE AND COARSE AGGREGATES: ASTM C33
3. ACCELERATOR: ASTM C 494, TYPE C OR E, NON-CORROSIVE, NON-CHLORIDE.
C. CONCRETE MIX: IN ACCORDANCE WITH ASTM C94, MINIMUM 3000 PSI 28 DAY COMPRESSIVE STRENGTH.
D. REINFORCING:
1. REINFORCING STEEL: ASTM C615, GRADE 40, UNLESS INDICATED OTHERWISE.
2. CHAIRS, BOLSTERS, BAR SUPPORTS, AND SPACERS: SIZED AND SHAPED FOR STRENGTH AND SUPPORT OF REINFORCEMENT DURING INSTALLATION AND PLACEMENT OF CONCRETE.
3. FABRICATE AS INDICATED AND IN ACCORDANCE WITH ACI 315.
4. DOWEL INTO EXISTING SLAB AT MINIMUM 18 INCHES ON CENTER BUT IN NOT LESS THAN 2 PLACES ALONG LONG SIDE OF CONCRETE PATCH AREA. DOWEL INTO EXISTING SLAB AT MINIMUM 18 INCHES ON CENTER BUT IN NOT LESS THAN 2 PLACES ALONG LONG SIDE OF CONCRETE PATCH AREA. EPOXY-COATED REINFORCING BARS: ASTM A 775/A 775M, EPOXY COATED, WITH LESS THAN 2 PERCENT DAMAGED COATING IN EACH 12-INCH (300-MM) BAR LENGTH.
4.1. EPOXY BONDING ADHESIVE: ASTM C 881, TWO-COMPONENT EPOXY RESIN, CAPABLE OF HUMID CURING AND BONDING TO DAMP SURFACES, OF CLASS SUITABLE FOR APPLICATION TEMPERATURE AND OF GRADE TO SUIT REQUIREMENTS, AND FOR BONDING HARDENED OR FRESHLY MIXED CONCRETE TO HARDENED CONCRETE.
4.2. PRODUCT: HILTI HIT-HY 200 EPOXY. INSTALL PER ICC-ES-3187
5. PLACE, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT.
6. LOCATE REINFORCING SPLICES NOT INDICATED ON THE DRAWINGS AT POINTS OF MINIMUM STRESS.
E. PLACEMENT:
1. COORDINATE WITH OTHER TRADES FOR INSTALLATION AND BEDDING OF UTILITIES.
2. ENSURE THAT BELOW GRADE CONSTRUCTION IS COMPLETE IN THE SLAB AREA TO BE PATCHED.
3. REPLACE EXISTING SUBGRADE MATERIALS TO MATCH EXISTING. REPLACE AND MAKE CONTINUOUS VAPOR BARRIERS AND OTHER SIMILAR CONSTRUCTION DISTURBED OR DAMAGED DURING DEMOLITION OR CONSTRUCTION OPERATIONS.
4. RECOMPACT EXISTING SUBGRADE TO 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.
5. PATCH SLAB WITH CONCRETE HAVING A MINIMUM 28-DAY STRENGTH OF 3000 PSI; MAXIMUM WATER/CEMENT RATIO OF 0.40. USE SUPERPLASTICIZER ADMIXTURE AS NECESSARY FOR WORKABILITY.
6. FINISH CONCRETE TO MATCH ADJACENT SURFACES.
F. CURING: MOISTURE CURE CONCRETE FOR A MINIMUM OF 7 DAYS, UNLESS APPROVED OTHERWISE.
G. SEALING AND HARDENING CONCRETE FLOORS.
1. MANUFACTURERS
a. ACCEPTABLE MANUFACTURER: CURECRETE DISTRIBUTION, INC; 1203 WEST SPRING CREEK PLACE, SPRINGVILLE, UT 84663. ASD. TEL (800) 998-5664, FAX (801) 489-3307, EMAIL: TECHSUPPORT@ASHFORDFORMULA.COM. WWW.ASHFORDFORMULA.COM
2. MATERIALS
a. CURE-SEAL-HARDENER: ASHFORD FORMULA; WATER-BASED CHEMICALLY-REACTIVE PENETRATING SEALER AND HARDENER, THAT SEALS BY DENSIFYING CONCRETE SO THAT WATER MOLECULES CANNOT PASS THROUGH BUT AIR AND WATER VAPOR CAN, WHILE ALLOWING CONCRETE TO ACHIEVE FULL COMPRESSIVE STRENGTH, MINIMIZING SURFACE CRAZING, AND ELIMINATING DUSTING.
a.a. COLORLESS, TRANSPARENT, ODORLESS, NON-TOXIC, NON-FLAMMABLE.
a.b. CONTAINING NO SOLVENTS OR VOLATILE ORGANIC COMPOUNDS.
a.c. ALLOWING TRAFFIC ON FLOORS WITHIN 2 TO 3 HOURS, WHICH CHEMICAL PROCESS COMPLETE WITH 3 MONTHS.
a.d. NO CHANGE TO SURFACE APPEARANCE EXCEPT A SHEEN DEVELOPED DUE TO TRAFFIC AND CLEANING.

DIVISION 3 - CONCRETE, CONT.

3. WATER: CLEAN, POTABLE
4. PREPARATION
A. CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.
B. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.
5. INSTALLATION
A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. PREVENT DAMAGE TO AND SOILING OF ADJACENT WORK.
C. NEW CONCRETE: APPLY CURE-SEAL-HARDENER TO NEW CONCRETE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO WORK ON AFTER TOWELING, EXCEPT ON COLORED CONCRETE WAIT MINIMUM OF 30 DAYS.
D. SPRAY ON AT RATE OF 200 SQUARE FEET PER GALLON
E. KEEP SURFACES WET WITH CURE-SEAL HARDENER FOR MINIMUM SOAK-IN PERIOD OF 30 MINUTES WITHOUT ALLOWING DRYING OUT OR BECOMING SLIPPERY. IN HOT WEATHER, SLIPPERINESS MAY APPEAR BEFORE THE 30 MINUTE TIME PERIOD HAS ELAPSED. IF THAT OCCURS, APPLY MORE CURE-SEAL-HARDENER AS REQUIRED TO KEEP ENTIRE SURFACE IN A NON-SLIPPERY STATE FOR THE FIRST 15 MINUTES. FOR THE REMAINING 15 MINUTES, MIST THE SURFACE AS NEEDED WITH WATER TO KEEP THE MATERIAL IN A NON-SLIPPERY STATE.
F. AFTER THIS PERIOD, WHEN TREATED SURFACE BECOMES SLIPPERY, LIGHTLY MIST WITH WATER UNTIL SLIPPERINESS DISAPPEARS.
G. WAIT FOR THE SURFACE TO BECOME SLIPPERY AGAIN AND THEN FLUSH ENTIRE SURFACE WITH WATER REMOVING ALL RESIDUE OF CURE-SEAL-HARDENER.
H. SQUEEGEE SURFACE COMPLETELY DRY, FLUSHING ANY REMAINING SLIPPERY AREAS UNTIL NO RESIDUE REMAINS.
I. WET VACUUM OR SCRUBBING MACHINES MAY BE USED TO REMOVE RESIDUE, PROVIDED MANUFACTURER'S INSTRUCTIONS ARE FOLLOWED.

035416 HYDRAULIC CEMENT UNDERLAYMENT

A. SUMMARY:
1. CEMENTITIOUS UNDERLAYMENTS AS NECESSARY FOR LEVELING OF NEW OR EXISTING CONCRETE FLOOR SUBSTRATES, AS NECESSARY TO MEET SPECIFIED TOLERANCES.
2. CEMENTITIOUS TOPPINGS AS NECESSARY FOR LEVELING NEW OR EXISTING SLABS AT LOCATIONS INDICATED TO RECEIVE CONCRETE SEALER ONLY.
3. RAMPS AND TAPERS AS NECESSARY TO ALIGN LEVELS BETWEEN DISSIMILAR FINISHES.
B. ENVIRONMENTAL REQUIREMENTS"
1. MAINTAIN SURFACE AND AMBIENT TEMPERATURE OF BETWEEN 50 AND 80 DEGREES F FOR 24 HOURS BEFORE, DURING, AND 24 HOURS AFTER UNDERLAYMENT INSTALLATION.
2. KEEP TRAFFIC OUT OF AREA IN WHICH UNDERLAYMENT IS BEING APPLIED OR CURED.
C. SELF-LEVELING UNDERLAYMENT SYSTEM: SELF-LEVELING, POURABLE, CEMENT BASED MATERIAL, MINIMUM 28 DAY COMPRESSIVE STRENGTH 2,000 PSI; MINIMUM BOND STRENGTH 200 PSI; ONE OF THE FOLLOWING AS RECOMMENDED BY MANUFACTURER FOR CONDITIONS, OR APPROVED.
1. MAPEI CORPORATION "ULTRAPLAN 1 PLUS" OR "NOVOPLAN 2 PLUS."
2. ARDEX INC. "K-15" SELF-LEVELING UNDERLAYMENT CONCRETE
3. LATICRETE INTERNATIONAL, INC. "LATICRETE 86 LATILEVEL THIN POUR UNDERLAYMENT."
D. TROWELABLE UNDERLAYMENT SYSTEM: AS RECOMMENDED BY MANUFACTURER FOR CONDITIONS, OR APPROVED:
1. MAPEI CORPORATION "MAPACEM 100" OR "PLANITOP 11".
2. ARDEX INC. "SD-P" FAST-SETTING UNDERLAYMENT.
3. LATICRETE INTERNATIONAL, INC. "LATICRETE 220 MEDIUM BED MORTAR" MIXED WITH "LATICRETE 3701 LATEX MORTAR ADMIX."
E. CEMENTITIOUS TOPPINGS: FOR CONCRETE SURFACES AT LOCATIONS INDICATED TO RECEIVE CONCRETE SEALER OR NOT OTHERWISE COVERED BY FLOORING MATERIAL; ONE OF THE FOLLOWING OR APPROVED:
1. SELF-LEVELING TYPES:
a. MAPEI CORPORATION "ULTRATOP" SELF-LEVELING ABRASION-RESISTANT TOPPING.
b. ARDEX INC. "K-500" SELF-LEVELING CONCRETE TOPPING.
2. TROWELABLE TYPES:
a. MAPEI CORPORATION "MARECEM 100" FAST-SETTING TOPPING MORTAR
b. ARDEX INC. "CD" SELF-DRYING CONCRETE DRESSING.
F. ACCESSORIES: FURNISH PRIMERS, PATCHING COMPOUNDS, AND SAND FILLERS AS RECOMMENDED BY THE UNDERLAYMENT MANUFACTURER FOR THE CONDITIONS OF THE PROJECT.
G. PREPARATION:
1. THOROUGHLY MIX UNDERLAYMENT MATERIALS FOR EACH TYPE OF PRODUCT IN PROPER PROPORTIONS TO ACHIEVE SMOOTH HOMOGENEOUS MIX, FREE OF LUMPS.
2. WITH THE EXCEPTION OF AREAS WHERE LEVELING CAN BE ACCOMPLISHED BY USE OF LATEX UNDERLAYMENT, AS SPECIFIED IN OTHER SECTIONS, INSTALL CEMENTITIOUS UNDERLAYMENT TO CONCRETE SLABS AS INDICATED ON THE DRAWINGS, AND AS NECESSARY TO LEVEL SLABS OR BRING SUBSTRATES TO PROPER ELEVATION.
3. INSPECT FLOOR TO VERIFY THAT DEMOLITION IS COMPLETE TO THE POINT WHERE WORK MAY PROGRESS.
4. SURVEY FLOOR AS NECESSARY TO SET SCREEDS AND REFERENCE POINTS. IDENTIFY CONSTRUCTION JOINTS. PREPARE FOR UNDERLAYMENT AT ALL LOCATIONS WHERE FLOOR DOES NOT MEET SPECIFIED TOLERANCE REQUIREMENTS.
5. ENSURE THAT SUBFLOOR IS CLEAN, DRY, HARD, SOUND, AND FREE OF OILS, OR OTHER SUBSTANCE THAT WOULD AFFECT PROPER BONDING AND CURING.
6. VERIFY THAT ALL AREAS TO BE LEVELED ARE AT OR BELOW FINAL DESIGN ELEVATION. GRIND DOWN HIGH SPOTS AS NECESSARY TO MEET SPECIFIED TOLERANCE REQUIREMENTS.
7. SET SCREEDS, MARKERS, AND REFERENCE BLOCKS. SET SCREEDS AT ALL CONSTRUCTION AND CONTROL JOINTS TO ESTABLISH WEAKENED PLANE JOINTS IN UNDERLAYMENT.
8. APPLY PRIMER TO ALL AREAS TO RECEIVE UNDERLAYMENT AND TOPPINGS; REPEAT APPLICATION IF NECESSARY TO ACHIEVE PROPER BUILD.
H. INSTALLATION:
1. INSTALL TROWELABLE UNDERLAYMENT AT LOCATIONS WHERE SLOPES ARE INDICATED AND AT OTHER LOCATIONS WHERE TAPERED FILL IS NECESSARY TO ALIGN THE FINISHED SURFACES OF THE VARIOUS FLOOR FINISH MATERIALS.
2. INSTALL SELF-LEVELING UNDERLAYMENT AT EXISTING CONCRETE SLAB SURFACES TO CORRECT SLAB FLATNESS AND LEVELNESS.
3. PROVIDE CEMENTITIOUS TOPPINGS AT LOCATIONS TO REMAIN EXPOSED IN THE FINISHED WORK.
4. INSTALL UNDERLAYMENTS AND TOPPINGS; FINISH TO A SMOOTH UNIFORM SURFACE.
5. CURE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
6. TOLERANCES: VERY FLAT; LEVEL TO WITHIN 1/16" IN 40"
I. CLEANING: AS WORK PROCEEDS, CLEAN UP EXCESS MATERIALS, RUBBISH, AND SPLASH.

DIVISION 4 - MASONRY (NOT USED)

DIVISION 5 - METALS

054000 COLD-FORMED METAL FRAMING

A. SUMMARY:
1. LIGHT GA STRUCTURAL STEEL METAL FRAMING AT EXTERIOR WALLS WHERE INDICATED ON THE DRAWINGS, AND AT SOFFIT CONSTRUCTION SUPPORTING STOREFRONTS, DISPLAY WINDOWS, AND SIGNAGE ELEMENTS.
2. STRUCTURAL DESIGN OF COLD FORMED METAL FRAMING SYSTEMS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
B. SYSTEM DESCRIPTION:
1. STRUCTURAL DESIGN:
a. SIZE AND ARRANGE MEMBERS TO SUPPORT DEAD AND LIVE LOADS IN ACCORDANCE CODE REQUIREMENTS.
b. DESIGN SYSTEM TO RESIST DEAD AND LIVE LOADS FROM WINDOWS, DISPLAY CASES, AWNINGS, AND OTHER ITEMS INDICATED TO BE SUPPORTED BY COLD FORMED METAL FRAMING.
c. DESIGN SYSTEM TO RESIST 100 PERCENT OF THE DESIGN LOAD WITH A MAXIMUM DEFLECTION OF L/720.
d. ANCHORAGES SHALL BE DESIGNED TO SIMULTANEOUSLY RESIST ALL VERTICAL AND LATERAL LOADS, WITH A SAFETY FACTOR OF 2.

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DIVISION 5 - METALS, CONT.

2. DESIGN SYSTEM TO ACCOMMODATE BUILDING DEFLECTION, DYNAMIC BUILDING MOVEMENT, AND TEMPERATURE VARIATIONS WITHOUT DAMAGE TO SYSTEM COMPONENTS.
3. CONFIGURATION:
a. PROVIDE FRAMING OF DEPTH INDICATED ON THE DRAWINGS.
b. WHERE STUD GA IS INDICATED ON THE DRAWINGS, PROVIDE STUDS OF INDICATED OR HEAVIER GA.
c. WHERE STUD SPACING IS INDICATED ON THE DRAWINGS, PROVIDE ADDITIONAL STUDS OR CLOSER SPACING AS NECESSARY TO MEET DESIGN REQUIREMENTS.
d. IN ADDITION TO COLD FORMED METAL FRAMING, PROVIDE ADDITIONAL STRUCTURAL STEEL MEMBERS AS REQUIRED TO SUPPORT THE LOADS IMPOSED.
C. QUALITY ASSURANCE:
1. USE ONLY CERTIFIED WELDERS.
2. CALCULATE STRUCTURAL PROPERTIES OF FRAMING MEMBERS IN ACCORDANCE WITH THE AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL MEMBERS".
3. STRUCTURAL DESIGN: STRUCTURAL DESIGN OF THE FRAMING SYSTEM SHALL BE BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE WHERE THE PROJECT IS LOCATED.
4. REGULATORY REQUIREMENTS:
a. FRAMING SYSTEM SHALL MEET THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.
b. FURNISH ALL CALCULATIONS, ENGINEER'S STAMPS, DRAWINGS, AND OTHER ITEMS REQUIRED BY THE CODE AUTHORITIES TO OBTAIN APPROVAL OF THE INSTALLATION.
D. COMPONENTS:
1. COLD FORMED LIGHT-GA STEEL FRAMING: ASTM A653; TYPES AS INDICATED ON THE STRUCTURAL DRAWINGS; G60 GALVANIZED COATING.
2. SCREWS: ASTM C954; SELF-DRILLING, SELF-TAPPING; PAN HEAD; GALVANIZED OR FLUOROPOLYMER COATED STEEL.
3. ZINC RICH TOUCH-UP PAINT: "GALV-WELD," "GALVICAN," "ZRC COLD GALVANIZED COMPOUND," OR APPROVED.
E. INSTALLATION:
1. INSTALL LIGHT GA STRUCTURAL FRAMING IN ACCORDANCE WITH ASTM C1007, UNLESS INDICATED OR SPECIFIED OTHERWISE, AND AS INDICATED ON THE DRAWINGS.
2. SCREW OR WELD EACH JOINT. WELDS SHALL BE IN ACCORDANCE WITH AWS D1.3.
3. METAL FRAMING MEMBERS SHALL BE SAW OR SHEAR CUT. NO TORCH CUTTING IS PERMITTED.
4. CONSTRUCT CORNERS WITH A MINIMUM OF 3 STUDS PER CORNER.
5. FRAME BOTH SIDES OF EXPANSION AND SEISMIC JOINTS. DO NOT BRIDGE JOINTS WITH SYSTEM COMPONENTS OR ACCESSORIES.
6. PROVIDE FRAMING AS REQUIRED TO FORM SOLID BACKING FOR ALL EDGES OF SHEATHING AND TRIM ACCESSORIES.
7. TOLERANCES:
a. PLUMBNESS: PLUMB WITHIN 1/8 INCH IN 10 FEET.
b. LOCATION: LOCATED WITHIN 1/4 INCH OF THE REQUIRED LOCATION.
c. ALIGNMENT: STUD AND RUNNER FACES TO RECEIVE FINISH MATERIALS SHALL NOT VARY GREATER THAN 1/8 INCH FROM THE REQUIRED PLANE, WITH NO ABRUPT JOGS OR BREAKS IN PLANE.
d. LEVEL: LEVEL WITHIN 1/8 INCH IN 10 FEET.
8. ERECT STUDS IN ONE PIECE FULL LENGTH. SPLICING AND WIRE TYING OF FRAMING COMPONENTS SHALL NOT BE USED.
9. TOUCH-UP FIELD WELDS AND SCRATCHED OR DAMAGED GALVANIZING WITH ZINC RICH PAINT.
10. ATTACH CROSS STUDS OR FURRING CHANNELS TO STUDS FOR ATTACHMENT OF WALL MOUNTED ITEMS.
11. INSTALL FRAMING BETWEEN STUDS FOR ATTACHMENT OF ELECTRICAL BOXES AND OTHER MECHANICAL AND ELECTRICAL ITEMS.
F. FIELD QUALITY CONTROL:
1. THE COLD FORMED METAL FRAMING DESIGN ENGINEER OR HIS AUTHORIZED REPRESENTATIVE SHALL VISIT THE SITE TO INSPECT THE WORK, VERIFY AND CERTIFY THAT FRAMING SIZES AND MATERIALS ARE AS REQUIRED, THAT CONNECTIONS ARE PROPERLY EXECUTED, AND THAT STRUCTURAL INTEGRITY OF MATERIALS HAS BEEN MAINTAINED.

DIVISION 6 - WOOD AND PLASTIC

061000 ROUGH CARPENTRY

A. DIMENSION LUMBER:
1. LUMBER SHALL BE MANUFACTURED IN ACCORDANCE WITH PS 20, AND SHALL BE STAMPED AND GRADED IN ACCORDANCE WITH SPIB, WWPA, WCLIB, OR NLGA GRADING RULES.
2. MOISTURE CONTENT: KILN DRIED TO 19% MAXIMUM MOISTURE CONTENT, EXCEPT FOR MATERIAL WHOSE LEAST DIMENSION IS 4 INCHES THICK OR GREATER.
3. SPECIES: SOUTHERN PIN

DIVISION 6 - WOOD AND PLASTIC, CONT.

SECTION - 061643 - GYPSUM SHEATHING

A. SUMMARY:
1. SHEATHING USED IN LIEU OF PLYWOOD IN NON-COMBUSTIBLE BUILDING CONSTRUCTION.

B. MATERIALS
1. SCREWS: GALVANIZED; SELF-DRILLING; SELF-DRILLING, BUGLE HEAD SCREWS; MINIMUM 1-1/4 INCH LONG.
2. GYPSUM SHEATHING: ONE OF THE FOLLOWING:
   a. G-P GYPSUM CORPORATION "DENS-GLASS GOLD," GLASS MAT FACED; ASTM C1177; 1/2 INCH THICK.
   b. USG FIBEROCK BRAND SHEATHING WITH AQUA-TOUGH(TM); 1/2 INCH THICK.

C. INSTALLATION:
1. INSTALL SQUARE EDGE BOARDS PARALLEL OR PERPENDICULAR TO FRAMING.INSTALL BOARDS PARALLEL TO FRAMING AT FIRE RATED WALLS. APPLY SHEATHING WITH JOINTS STAGGERED. ALL EDGES SHALL BE FIRMLY SUPPORTED.
2. INSTALL SHEATHING WITH COATING TOWARDS EXTERIOR.
3. SCREW TO FRAMING. SPACE FASTENERS 8 INCHES O.C. IN FIELD AND 4 INCHES O.C. AT ENDS ALONG EACH FRAMING MEMBER.
4. DO NOT BRIDGE EXPANSION OR SEISMIC JOINTS.

DIVISION 7 - THERMAL AND MOISTURE, CONT.

072100 THERMAL INSULATION

A. SUMMARY: BUILDING INSULATION WHEN INDICATED ON THE DRAWINGS.

B. MATERIALS
1. UNFACED BATT AND BLANKET INSULATION: ASTM C665, TYPE I; PREFORMED UNFACED GLASS FIBER ROLL; FLAME SPREAD OF 25 OR LESS AND SMOKE DEVELOPED OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84;OVERSIZE WIDTHS FOR FRICTION-FIT BETWEEN METAL FRAMING.
2. BOARD INSULATION: EXTRUDED POLYSTYRENE; DOW CHEMICAL COMPANY "STYROFOAM" OR OWENS CORNING "FOAMULAR 250."

C. ACCESSORIES:
1. SEPARATE VAPOR BARRIER FOR BATT INSULATION: FOIL SCRIM KRAFT FSK 25; FLAME SPREAD OF 25 OR LESS AND A SMOKE DEVELOPED OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84.
2. TAPE: TO MATCH INSULATION FACING; 2 INCH WIDTH.
3. ACOUSTIC INSULATION: SEE SECTION 098100.

D. INSTALLATION:
1. INSTALL INSULATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED.
2. TRIM INSULATION NEATLY TO FIT SPACES. INSTALL WITHOUT GAPS OR VOIDS.
3. INSTALLATION OF THERMAL BATT INSULATION:
   a. INSTALL INSULATION WITH VAPOR BARRIER TOWARD WARM SIDE OF BUILDING SPACES. VAPOR BARRIER SHALL BE CONTINUOUS. TAPE SEAL TEARS OR CUTS IN VAPOR BARRIER.
   b. AT METAL STUD FRAMING, INSERT THE INSULATION EDGES TIGHTLY INTO THE STUD CHANNELS FOR A FRICTION FIT. WHERE INSULATION BUTTS THE BACKSIDE OF STUD CHANNELS, CONTINUOUSLY TAPE INSULATION FLANGES TO THE EXPOSED METAL STUD FLANGE.
   c. MECHANICAL FASTENING:
4. AT LOCATIONS WHERE NO FRAMING IS PRESENT TO SUPPORT THE INSULATION, PROVIDE METAL IMPALING PINS AND RETAINERS TO HOLD THE INSULATION FIRMLY IN POSITION.
5. MECHANICALLY OR ADHESIVELY BOND THE RETAINING PINS TO THE SUBSTRATE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6. SPACE PINS AT MAXIMUM 24 INCHES ON CENTER ALONG THE EDGES AND WITHIN THE FIELD OF THE BLANKET. PLACE EDGE PINS WITHIN 6 INCHES FROM THE EDGE OF THE BATT.
   a. PACK BATT INSULATION IN SHIM SPACES AT PERIMETER OF WINDOW ASSEMBLY TO MAINTAIN CONTINUITY OF THERMAL BARRIER.
7. SEPARATE VAPOR BARRIER INSTALLATION:
   a. INSTALL SEPARATE VAPOR BARRIER OVER UNFACED INSULATION.
   b. INSTALL VAPOR BARRIER TOWARD WARM SIDE OF BUILDING SPACES.
   c. VAPOR BARRIER SHALL BE CONTINUOUS.
   d. AT LOCATIONS WHERE INSULATION IS MECHANICALLY FASTENED BY IMPALING PINS, PLACE VAPOR RETARDER OVER IMPALING PINS AND HOLD IN POSITION WITH ADDITIONAL RETAINERS. THE INSTALLATION SHALL PRESENT A TIGHT, CONTINUOUS, AND WRINKLE FREE APPEARANCE.
   e. AT LIGHT GA SUPPORT FRAMING, SECURE TO STUDS WITH DOUBLE STICK TAPE OR SPRAY ADHESIVE.
   f. LAP JOINTS IN VAPOR BARRIER 2 INCHES, EXCEPT PROVIDE TAPE SEALED JOINTS AT LOCATIONS WHERE VAPOR BARRIER WILL REMAIN EXPOSED IN THE FINISHED WORK.
   g. TAPE SEAL VAPOR BARRIER TO ADJACENT CONSTRUCTION AT PERIMETER EDGES.
   h. TAPE AND SEAL TEARS OR CUTS IN VAPOR BARRIER.

A. "R" VALUE SCHEDULE:
1. BATT INSULATION: PROVIDE MINIMUM 6 INCH INSULATION THICKNESS (R19) TO FILL STUD CAVITY OR GREATER TO MATCH EXISTING IN SIMILAR APPLICATIONS, OR AS INDICATED ON THE DRAWINGS.
2. RIGID INSULATION: PROVIDE MINIMUM 2 INCH INSULATION THICKNESS (R10) OR TO MATCH EXISTING IN SIMILAR APPLICATIONS.

072401 DIRECT APPLIED EXTERIOR FINISH SYSTEM (DEFS)

A. SUMMARY:
1. WHERE CEMENT PLASTER IS INDICATED ON THE DRAWINGS OVER EXISTING CMU, PROVIDE DIRECT APPLIED EXTERIOR FINISH SYSTEM (DEFS) OVER EXISTING CONCRETE MASONRY UNITS AS SPECIFIED.

B. APPLICATOR QUALIFICATIONS:
1. MINIMUM OF 5 YEARS EXPERIENCE IN THE APPLICATION OF DEFS OF SIMILAR SCOPE TO THE WORK INDICATED.
2. INSTALLER SHALL HAVE BEEN TRAINED BY THE PRODUCT MANUFACTURER PRIOR TO BIDDING, AND SHALL BE CURRENTLY APPROVED BY THE MANUFACTURER TO INSTALL WARRANTABLE DEFS SYSTEM AS SPECIFIED.

C. PROTECTION: PROTECT ADJACENT MATERIALS AND THIS SYSTEM FROM DAMAGE DURING INSTALLATION, WHILE CURING OR WHEN UNATTENDED.

D. APPROVED MANUFACTURERS:
1. DRYVIT SYSTEMS INC.
2. STO INDUSTRIES, INC.
3. SENERGY, INC.

E. MATERIALS:
1. PROVIDE MANUFACTURER'S STANDARD MATERIALS AS RECOMMENDED FOR THE INSTALLATION.
2. BASE COAT: MANUFACTURER'S STANDARD POLYMER MODIFIED CEMENTITIOUS BASE COAT; MAXIMUM 30% CEMENT; DRY FACTORY PRE-MIXED FORMULA, OR PRE- MEASURED PACKAGED MATERIALS FOR CONSISTENT SITE MIXING.
3. FINISH COAT: MANUFACTURER'S STANDARD; 100% ACRYLIC; CUSTOM INTEGRAL COLOR AS SELECTED BY THE ARCHITECT; LISTED BY UNDERWRITER'S LABORATORIES, INC. AS HAVING A FLAME SPREAD OF 25 OR LESS.
4. REINFORCING MESH: MANUFACTURER'S STANDARD ALKALINE RESISTANT OPEN WEAVE GLASS FIBER MESH; STANDARD DUTY AND HEAVY DUTY.
5. SUBSTRATE MESH TAPE: ALKALINE RESISTANT OPEN WEAVE GLASS FIBER MESH SURFACED ON ONE SIDE WITH PRESSURE SENSITIVE ADHESIVE; TYPE AS RECOMMENDED BY SYSTEM MANUFACTURER.
6. DEFS TRIM:
   a. PRODUCTS OF VINYL CORPORATION (800-648-4695) ARE LISTED AS A STANDARD OF APPROVAL. SIMILAR AND EQUAL PRODUCTS BY PLASTIC COMPONENTS (800-327-7077) MAY BE USED. FABRICATE FROM EXTERIOR GRADE VINYL; PROVIDE MANUFACTURER'S STANDARD SPLICE PLATES AND CONNECTOR CLIPS FOR BUTT JOINT CONNECTIONS.
   b. CORNER BEAD: CB158E.

F. INSTALLATION:
1. PROTECT ADJACENT SURFACES FROM CONTACT WITH OVERSPRAY AND SPATTER OF PRIMERS, ADHESIVES, AND FINISH COATS.
2. AT CONCRETE AND CMU SURFACES TO RECEIVE FINISH COAT ONLY, REMOVE ALL DIRT, DUST, FORM RELEASE AGENTS, EFFLORESCENCE, AND OTHER ELEMENTS WHICH WOULD IMPAIR BOND. ACID ETCH WITH MURIATIC ACID.
3. INSTALL DEFS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE FINISH COAT ONLY OVER EXISTING CONCRETE BLOCK SURFACES AS INDICATED ON THE DRAWINGS.
5. FINISH COATING SHALL BE APPLIED AS RECOMMENDED BY THE EXTERIOR INSULATION AND FINISH SYSTEM MANUFACTURER.

DIVISION 7 - THERMAL AND MOISTURE, CONT.

6. TROWEL APPLY SKIM COAT OF MANUFACTURER'S RECOMMENDED FIBER REINFORCED POLYMER MODIFIED MORTAR TO OBTAIN SMOOTH AND FLAT SURFACES WITHIN A TOLERANCE OF 1/8 INCH IN 10 FEET, AND TO FILL SURFACE IMPERFECTIONS. USE BONDING AGENT AS NECESSARY FOR ADEQUATE BOND.
7. APPLY COLOR MATCH PRIMER.
8. PROVIDE FINISH COAT TO MATCH EXISTING.

G. CLEAN-UP: REMOVE DIRT AND STAINS FROM DEFS SURFACES AND ADJACENT SURFACES WITHOUT DAMAGING FINISHES.

07241 EXTERIOR INSULATION AND FINISH SYSTEMS - CLASS PB

A. SUMMARY
1. THIS SECTION INCLUDES CLASS PB EXTERIOR INSULATION AND FINISH SYSTEM (EIFS) [WITH DRAINAGE] APPLIED OVER SUBSTRATE AS INDICATED ON DRAWINGS.
   a. USE, MANUFACTURER, EXTENT, TEXTURE AND COLOR ARE SUBJECT TO T-MOBILE REVIEW AND APPROVAL.
2. ACCEPTABLE SUBSTRATES FOR OUTSULATION SYSTEMS.
   a. UNGLAZED BRICK, CEMENT PLASTER, CONCRETE, OR MASONRY.
   b. EXTERIOR GRADE GYPSUM SHEATHING MEETING ASTM C79 REQUIREMENTS FOR WATER-RESISTANT CORE OR TYPE X CORE AT THE TIME OF APPLICATION OF THE OUTSULATION SYSTEM.
   c. SILICONE TREATED GYPSUM CORE SHEATHING SURFACED WITH INORGANIC FIBERGLASS MATS MEETING ASTM C1177.
   d. EXTERIOR FIBER REINFORCED CEMENT AND CALCIUM SILICATE BOARDS.
   e. APA EXTERIOR OR EXPOSURE 1 RATED PLYWOOD, GRADE C-D OR BETTER, NOMINAL 13 MM (1/2 IN.), MINIMUM PLY.
   f. APA EXPOSURE 1 RATED ORIENTED STRAND BOARD (OSB), NOMINAL 13 MM (1/2 IN.)
   g. GALVANIZED EXPANDED METAL LATH 1.4 OR 1.8 KG/M2 (2.6 OR 3.3 LBS/YD2) INSTALLED OVER A SOLID SUBSTRATE.
   h. DEFLECTION OF SUBSTRATE SYSTEMS SHALL NOT EXCEED L/240.
   i. THE SLOPE OF INCLINED SURFACES SHALL NOT BE LESS THEN 6:12.
   j. THE LENGTH OF INCLINED SURFACES SHALL NOT EXCEED 305 MM (12IN).

B. PERFORMANCE REQUIREMENTS
1. CLASS PB EIFS: COMPLY WITH PERFORMANCE CHARACTERISTICS IN EIMA'S "EIMA GUIDELINE SPECIFICATION FOR EXTERIOR INSULATION AND FINISH SYSTEMS, CLASS PB."
   a. STANDARD IMPACT RESISITANCE: 25-49 INCH-LB (2.8-5.6 J) FOR AREAS ABOVE 7'-0."
   b. HIGH IMPACT RESISTANCE: 90-150 INCH-LB (10.2 - 17 J) FOR AREAS BELOW 7'-0."
   c. POSITIVE AND NEGATIVE WIND-LOAD PERFORMANCE: CAPABILITY TO WITHSTAND WIND LOADS INDICATED WHEN TESTED PER ASTM E 330.
2. DRAINAGE: 3 SAMPLES CAPABLE OF DRAINING WATER, AND HAVING AN AVERAGE MINIMUM TRUE DRAINAGE EFFICIENCY OF [90] PERCENT WHEN TESTED PER EIMA 200.2.
3. WATER-WEATHER-RESISTIVE-BARRIER COATING: COMPLY WITH ICBO-ES AC24.

C. SUBMITTALS
1. PRODUCT DATA: FOR EACH PRODUCT INDICATED.
2. SHOP DRAWINGS: INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS, PENETRATIONS, TERMINATIONS, FASTENERS, AND ATTACHMENTS TO OTHER WORK.
3. SAMPLES: FOR EACH EIFS AND FOR EACH COLOR AND TEXTURE REQUIRED.
4. FIELD QUALITY-CONTROL TEST REPORTS.
5. PRODUCT [TEST REPORTS].
6. MAINTENANCE DATA.

A. QUALITY ASSURANCE
1. INSTALLER QUALIFICATIONS: CERTIFIED IN WRITING BY EIFS MANUFACTURER TO INSTALL MANUFACTURER'S SYSTEM USING TRAINED WORKERS.
2. SOURCE LIMITATIONS: OBTAIN EIFS THROUGH ONE SOURCE FROM A SINGLE EIFS MANUFACTURER AND FROM SOURCES APPROVED BY EIFS MANUFACTURER AS COMPATIBLE WITH SYSTEM COMPONENTS.
3. FIRE-TEST-RESPONSE CHARACTERISTICS: WHERE INDICATED, PROVIDE EIFS AND SYSTEM COMPONENTS IDENTICAL TO THOSE OF EIFS AND SYSTEM COMPONENTS TESTED PER TEST METHOD INDICATED BELOW BY UL OR ANOTHER TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. IDENTIFY PRODUCTS WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AND INSPECTING AGENCY.
   a. FLAME SPREAD OF INSULATION BOARD AND FINISH COATS: 25 OR LESS WHEN TESTED INDIVIDUALLY PER ASTM E 84.
   b. SMOKE DEVELOPED OF INSULATION BOARD AND FINISH COATS; 450 OR LESS WHEN TESTED INDIVIDUALLY PER ASTM E 84.

E. MANUFACTURERS
1. AVAILABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
2. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
   a. DRYVIT SYSTEMS, INC.
   b. SENERGY INC.; SKW-MBT CONSTRUCTION CHEMICALS.
   c. STO CORP.
3. BASIS-OF-DESIGN PRODUCT: THE DESIGN FOR EIFS[WITH DRAINAGE] IS BASED ON DRYVIT OUTSULATION SYSTEM REQUIREMENTS. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE NAMED PRODUCT OR A COMPARABLE PRODUCT BY ONE OF THE FOLLOWING MANUFACTURERS LISTED ABOVE.

F. MATERIALS
1. COMPATIBILITY: PROVIDE SUBSTRATES, ADHESIVE, FASTENERS, BOARD INSULATION, REINFORCING MESHES, BASE- AND FINISH-COAT SYSTEMS, SEALANTS, AND ACCESSORIES THAT ARE COMPATIBLE WITH ONE ANOTHER AND APPROVED FOR USE BY EIFS MANUFACTURER FOR PROJECT.
2. WATER-/WEATHER-RESISTIVE-BARRIER COATING: FORMULATION AND ACCESSORIES DESIGNED FOR INDICATED USE.
3. PRIMER/SEALER: SUBSTRATE CONDITIONER DESIGNED TO SEAL SUBSTRATES FROM MOISTURE PENETRATION AND TO IMPROVE THE BOND BETWEEN SUBSTRATE OF TYPE INDICATED AND ADHESIVE USED FOR APPLICATION OF INSULATION.
4. DRAINAGE MAT: DESIGNED TO DRAIN INCIDENTAL MOISTURE BY GRAVITY; EIFS MANUFACTURER'S STANDARD OR PRODUCT RECOMMENDED IN WRITING BY EIFS MANUFACTURER [WITH MANUFACTURER'S STANDARD CORROSION-RESISTANT MECHANICAL FASTENERS SUITABLE FOR INTENDED SUBSTRATE].
5. SPACERS: FURRING STRIPS; EIFS MANUFACTURER'S STANDARD OR PRODUCT RECOMMENDED IN WRITING BY EIFS MANUFACTURER [WITH MANUFACTURER'S STANDARD CORROSION-RESISTANT MECHANICAL FASTENERS SUITABLE FOR INTENDED SUBSTRATE].
6. ADHESIVE FOR APPLICATION OF INSULATION: MFR'S STANDARD.
7. MOLDED, RIGID CELLULAR POLYSTYRENE BOARD INSULATION: COMPLY WITH EIFS MANUFACTURER'S REQUIREMENTS, ASTM C 578 FOR TYPE I, AND EIMA'S "EIMA GUIDELINE SPECIFICATION FOR EXPANDED POLYSTYRENE (EPS) INSULATION BOARD."
   a. CHANNELED BOARD INSULATION: EIFS MANUFACTURER'S STANDARD FACTORY-FABRICATED PROFILE WITH LINEAR VERTICAL DRAINAGE CHANNELS, SLOTS, OR WAVES ON THE BACK SIDE OF BOARD.
8. REINFORCING MESH: BALANCED, ALKALI-RESISTANT, OPEN-WEAVE GLASS-FIBER MESH TREATED FOR COMPATIBILITY WITH OTHER EIFS MATERIALS AND COMPLYING WITH EIMA 105.01 AND ASTM D 578.
   a. STANDARD-IMPACT REINFORCING MESH: NOT LESS THAN [4.0 OZ./SQ. YD. (136 G/SQ. M)]
   b. HIGH-IMPACT REINFORCING MESH: NOT LESS THAN [15 OZ./ SQ. YD. (509 G/SQ. M)] 7'-0" DOWN TO FF.
   c. DETAIL REINFORCING MESH: NOT LESS THAN [4.0 OZ./SQ. YD. (136 G/SQ. M)].
   d. CORNER REINFORCING MESH: NOT LESS THAN [7.2 OZ./SQ. YD. (244 G/SQ. M)].
9. BASE-COAT MATERIALS: STANDARD MIXTURE.
10. WATERPROOF ADHESIVE/BASE-COAT MATERIALS: WATERPROOF MIXTURE.
11. PRIMER: FACTORY-MIXED ELASTOMERIC-POLYMER PRIMER FOR PREPARING BASE- COAT SURFACE FOR APPLICATION OF FINISH COAT.
12. FINISH-COAT MATERIALS: [STANDARD ACRYLIC-BASED COATING WITH ENHANCED MILDEW RESISTANCE].COLORS, TEXTURES, AND PATTERNS: REFERENCE EXTERIOR FINISH SCHEDULE ON DRAWINGS.
13. MECHANICAL FASTENERS: CORROSION-RESISTANT FASTENERS CONSISTING OF THERMAL CAP, STANDARD WASHER AND SHAFT ATTACHMENTS, AND FASTENER SUITABLE FOR SUBSTRATE.
14. TRIM ACCESSORIES: MANUFACTURED FROM UV-STABILIZED PVC AND COMPLYING WITH ASTM D 1784 AND ASTM C 1063.

A. INSTALLATION
1. GENERAL: COMPLY WITH ASTM C 1397 AND EIFS MANUFACTURER'S WRITTEN INSTRUCTIONS FOR INSTALLATION OF EIFS AS APPLICABLE TO EACH TYPE OF SUBSTRATE INDICATED.
2. INSULATION: [ADHESIVELY AND MECHANICALLY] ATTACH TO SUBSTRATE.
3. EXPANSION JOINTS: INSTALL AT LOCATIONS INDICATED; WHERE REQUIRED BY EIFS MANUFACTURER; WHERE EXPANSION JOINTS ARE INDICATED IN SUBSTRATES BEHIND EIFS; WHERE EIFS ADJOIN DISSIMILAR SUBSTRATES, MATERIALS, AND CONSTRUCTION; AT FLOOR LINES IN MULTILEVEL WOOD-FRAMED CONSTRUCTION; AND WHERE WALL HEIGHT CHANGES.

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4. BASE COAT: APPLY TO EXPOSED SURFACES OF INSULATION IN MINIMUM THICKNESS RECOMMENDED IN WRITING BY EIFS MANUFACTURER, BUT NOT LESS THAN [1/16-INCH (1.6-MM)] DRY-COAT THICKNESS.
5. REINFORCING MESH: COMPLETELY EMBED MESH IN WET BASE COAT, APPLYING ADDITIONAL BASE-COAT MATERIAL IF NECESSARY, SO REINFORCING-MESH COLOR AND PATTERN ARE NOT VISIBLE.
6. DOUBLE-LAYER REINFORCING MESH APPLICATION: WHERE INDICATED, APPLY SECOND BASE COAT AND SECOND LAYER OF [STANDARD] IMPACT REINFORCING MESH.
7. DOUBLE BASE-COAT APPLICATION: WHERE INDICATED, APPLY IN SAME MANNER AND THICKNESS AS FIRST APPLICATION EXCEPT WITHOUT REINFORCING MESH.
8. FINISH COAT: APPLY OVER DRY [PRIMER] AND [BASE COAT], MAINTAINING A WET EDGE AT ALL TIMES FOR UNIFORM APPEARANCE, IN THICKNESS REQUIRED BY EIFS MANUFACTURER TO PRODUCE A UNIFORM FINISH OF COLOR AND TEXTURE MATCHING APPROVED SAMPLE AND FREE OF COLD JOINTS, SHADOW LINES, AND TEXTURE VARIATIONS. (FINE SAND TEXTURED FINISH).

H. FIELD QUALITY CONTROL
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER APPLICATION OF THE OUTSULATION MATERIALS.
2. MANUFACTURER ASSUMES NO RESPONSIBILITY FOR ON-SITE INSPECTIONS OR APPLICATION OF ITS PRODUCTS.
3. IF REQUIRED, THE CONTRACTOR SHALL CERTIFY IN WRITING THE QUALITY OF WORK PERFORMED RELATIVE TO THE SUBSTRATE SYSTEM,DETAILS, INSTALLATION PROCEDURES, WORKMANSHIP AND AS TO THE SPECIFIC PRODUCTS USED.
4. IF REQUIRED, THE EPS SUPPLIER SHALL CERTIFY IN WRITING THA THE EPS MEETS MANUFACTURER'S SPECIFICATIONS.
5. IF REQUIRED, THE SEALANT CONTRACTOR SHALL CERTIFY IN WRITING THAT THE SEALANT APPLICATION IS IN ACCORDANCE WITH THE SEALANT MANUFACTURER'S AND MANUFACTURER'S RECOMMENDATIONS.

I. CLEANING
1. ALL EXCESS OUTSULATION SYSTEM MATERIALS SHALL BE REMOVED FROM THE JOB SITE BY THE CONTRACTOR IN ACCORDANCE WITH CONTRACT PROVISIONS AND AS REQUIRED BY APPLICABLE LAW.
2. ALL SURROUNDING AREAS, WHERE THE OUTSULATION SYSTEM HAS BEEN INSTALLED, SHALL BE LEFT FREE OF DEBRIS AND FOREIGN SUBSTANCES RESULTING FROM THE CONTRACTOR'S WORK.

J. PROTECTION
1. THE OUTSULATION SYSTEM SHALL BE PROTECTED FROM INCLEMENT WEATHER AND OTHER SOURCES OF DAMAGE UNTIL DRY AND PERMANENT PROTECTION IN THE FORM OF FLASHINGS, SEALANTS, ETC. ARE INSTALLED.

SECTION 07415 - COMPOSITE WALL PANELS OR BRAKE METAL (IF NOTED ON DRAWINGS)

A. PERFORMANCE REQUIREMENTS
1. DELEGATED DESIGN: DESIGN METAL-FACED COMPOSITE WALL PANEL OR BRAKE METAL ASSEMBLY, INCLUDING COMPREHENSIVE ENGINEERING ANALYSIS BY A QUALIFIED PROFESSIONAL ENGINEER STRUCTURAL PERFORMANCE: PROVIDE METAL-FACED COMPOSITE WALL PANEL ASSEMBLIES CAPABLE OF WITHSTANDING THE EFFECTS OF THE FOLLOWING LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS INDICATED, BASED ON TESTING ACCORDING TO ASTM E 330:
2. WIND LOADS: DETERMINE LOADS BASED ON THE FOLLOWING MINIMUM DESIGN WIND PRESSURES: 20 LBF/SQ. FT. UNIFORM PRESSURE OF ACTING (957 PA) INWARD OR OUTWARD.
3. DEFLECTION LIMITS: METAL-FACED COMPOSITE WALL PANEL ASSEMBLIES SHALL WITHSTAND WIND LOADS WITH HORIZONTAL DEFLECTIONS NO GREATER THAN [1/175 OF THE SPAN AT THE PERIMETER AND 1/60 OF THE SPAN ANYWHERE IN THE PANEL] < OF THE SPAN.

B. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
1. SHOP DRAWINGS: SHOW FABRICATION AND INSTALLATION LAYOUTS OF METAL-FACED COMPOSITE WALL PANELS; DETAILS OF EDGE CONDITIONS, JOINTS, PANEL PROFILES, CORNERS, ANCHORAGES, ATTACHMENT SYSTEM, TRIM, FLASHINGS, CLOSURES, AND ACCESSORIES; AND SPECIAL DETAILS. DISTINGUISH AMONG FACTORY-, SHOP-, AND FIELD-ASSEMBLED WORK. SAMPLES: FOR EACH TYPE OF EXPOSED FINISH REQUIRED.
2. DELEGATED-DESIGN SUBMITTAL: FOR METAL-FACED COMPOSITE WALL PANEL ASSEMBLY INDICATED TO COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA, INCLUDING ANALYSIS DATA AND CALCULATIONS SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. COORDINATION DRAWINGS: EXTERIOR ELEVATIONS, DRAWN TO SCALE, ON WHICH THE FOLLOWING ITEMS ARE SHOWN AND COORDINATED WITH EACH OTHER.

C. QUALITY ASSURANCE
1. MANUFACTURER QUALIFICATIONS: MINIMUM 5 YEARS CONTINUOUS EXPERIENCE MANUFACTURING THE PANEL MATERIAL SPECIFIED, WITH NO OUTSOURCED PRODUCTION PROCESSES.ISO 9001 CERTIFIED.
2. FABRICATOR QUALIFICATIONS: MINIMUM 3 YEARS EXPERIENCE ON PROJECTS OF COMPARABLE SCOPE AND SCALE, AND CAPABLE OF PROVIDING FIELD SERVICE REPRESENTATION DURING CONSTRUCTION. INSTALLER QUALIFICATIONS: MINIMUM 3 YEARS EXPERIENCE ON PROJECTS OF COMPARABLE SCOPE AND SCALE, AND CAPABLE OF PROVIDING FIELD SERVICE REPRESENTATION DURING CONSTRUCTION.
3. FIRE-RESISTANCE RATINGS: WHERE INDICATED, PROVIDE METAL-FACED COMPOSITE WALL PANELS IDENTICAL TO THOSE OF ASSEMBLIES TESTED FOR FIRE RESISTANCE PER ASTME119 BY A QUALIFIED TESTING AGENCY. IDENTIFY PRODUCTS WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AGENCY.

D. WARRANTY
1. SPECIAL WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH MANUFACTURER AGREES TO REPAIR OR REPLACE COMPONENTS OF METAL-FACED COMPOSITE WALL PANEL ASSEMBLIES THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD.
2. WARRANTY PERIOD: [TEN] YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
3. SPECIAL WARRANTY ON PANEL FINISHES: MANUFACTURER'S STANDARD FORM IN WHICH MANUFACTURER AGREES TO REPAIR FINISH OR REPLACE METAL-FACED COMPOSITE WALL PANELS THAT SHOW EVIDENCE OF DETERIORATION OF FACTORY-APPLIED FINISHES WITHIN SPECIFIED WARRANTY PERIOD.
4. FINISH WARRANTY PERIOD: [20] > YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

E. PRODUCTS
1. PANEL MATERIALS.
   a. ALUMINUM SHEET: COIL-COATED SHEET, ASTM B 209), ALLOY AS STANDARD WITH MANUFACTURER, WITH TEMPER AS REQUIRED TO SUIT FORMING OPERATIONS AND STRUCTURAL PERFORMANCE REQUIRED.
2. SURFACE: SMOOTH, FLAT FINISH.
3. EXPOSED COIL-COATED FINISHES:
   a. TWO-COAT FEVE FLUOROPOLYMER: AAMA 620.
   b. TWO-COAT PVDF FLUOROPOLYMER: AAMA 620.
4. EXPOSED ANODIZED FINISHES:
   a. COLOR ANODIC FINISH: AAMA 611, [AA-M12C22A42/A44, CLASS I, 0.018 MM] [AA-M12C22A32/A34, CLASS II, 0.010 MM] OR THICKER.
   b. CONCEALED FINISH: APPLY PRETREATMENT AND MANUFACTURER'S STANDARD WHITE OR LIGHT-COLORED ACRYLIC OR POLYESTER BACKER FINISH, CONSISTING OF PRIME COAT AND WASH COAT 0.5 MIL WITH A MINIMUM TOTAL DRY FILM THICKNESS OF.(0.013 MM)
5. PANEL SEALANTS: ASTM C 920.

F. MISCELLANEOUS METAL FRAMING
1. MISCELLANEOUS METAL FRAMING, GENERAL: ASTM C 645, COLD-FORMED METALLIC-COATED STEEL SHEET, [ASTM A 653 /A 653M, G40 (Z120) HOT-DIP GALVANIZED] OR COATING WITH EQUIVALENT CORROSION RESISTANCE UNLESS OTHERWISE INDICATED.
2. SUBGIRTS: MANUFACTURER'S STANDARD C- OR Z-SHAPED SECTIONS 0.064-INCH (1.63-MM) NOMINAL THICKNESS.
3. ZEE CLIPS: 0.079-INCH (2.01-MM) NOMINAL THICKNESS.
4. BASE OR SILL [ANGLES] [CHANNELS]: 0.079-INCH (2.01-MM) NOMINAL THICKNESS.
5. HAT-SHAPED, RIGID FURRING CHANNELS: NOMINAL THICKNESS: [AS INDICATED] [AS REQUIRED TO MEET PERFORMANCE REQUIREMENTS] [0.025 INCH (0.64MM)] > DEPTH: [AS INDICATED] [1-1/2 INCHES (38 MM)]
6. COLD-ROLLED FURRING CHANNELS: MINIMUM 1/2-INCH- (13-MM-) WIDE FLANGE. NOMINAL THICKNESS: [AS INDICATED] [AS REQUIRED TO MEET PERFORMANCE R EQUIREMENTS] [0.064 INCH (1.63MM)]< DEPTH: [AS INDICATED] [3/4 INCH (19 MM)] <
7. FURRING BRACKETS: ADJUSTABLE, CORRUGATED-EDGE TYPE OF STEEL SHEET WITH NOMINAL THICKNESS OF 0.040 INCH (1.02 . MM)
8. TIE WIRE: ASTM A 641/A 641M, CLASS 1 ZINC COATING, SOFT TEMPER, 0.062-INCH-(1.57-MM-) DIAMETER WIRE, OR DOUBLE STRAND OF 0.048-INCH-(1.22-MM-) DIAMETER WIRE.

G. MISCELLANEOUS MATERIALS
1. ALUMINUM EXTRUSIONS: ASTM B 221
2. FASTENERS: SELF-TAPPING SCREWS, BOLTS, NUTS, SELF-LOCKING RIVETS AND BOLTS, END-WELDED STUDS, AND OTHER SUITABLE FASTENERS DESIGNED TO WITHSTAND DESIGN LOADS. PROVIDE EXPOSED FASTENERS WITH HEADS MATCHING COLOR OF METAL-FACED COMPOSITE WALL PANELS BY MEANS OF PLASTIC CAPS OR FACTORY-APPLIED COATING. PROVIDE EPDM, PVC, OR NEOPRENE SEALING WASHERS. NO VISIBLE MECHANICAL FASTENERS.

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H. METAL-FACED COMPOSITE WALL PANELS OR BRAKE METAL
1. GENERAL: PROVIDE FACTORY-FORMED AND -ASSEMBLED, METAL-FACED COMPOSITE WALL PANELS FABRICATED FROM TWO METAL FACINGS BONDED, USING NO GLUES OR ADHESIVES, TO SOLID, EXTRUDED THERMOPLASTIC CORE; FORMED INTO PROFILE FOR INSTALLATION METHOD INDICATED, INCLUDE ATTACHMENT SYSTEM COMPONENTS AND ACCESSORIES REQUIRED FOR WEATHERTIGHT SYSTEM.
2. FIRE-RETARDANT CORE: NONCOMBUSTIBLE, WITH THE FOLLOWING SURFACE- BURNING CHARACTERISTICS AS DETERMINED BY TESTING IDENTICAL PRODUCTS PER ASTM E 84 BY UL OR ANOTHER TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION:
3. FLAME-SPREAD INDEX: 25 OR LESS.
4. SMOKE-DEVELOPED INDEX: 450 OR LESS.
5. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ALPOLIC, DIVISION OF MITSUBISHI CHEMICAL AMERICA, INC.; [ALPOLIC] [ALPOLIC/FR] OR A COMPARABLE PRODUCT FROM ONE OF THE FOLLOWING:
   a. ALCAN COMPOSITES USA INC.; [ALUCOBOND]
   b. AMERICAN PRODUCTS, INC.: [API]
   c. ALCOA INC.; REYNOBOND [PE]
6. ALUMINUM-FACED COMPOSITE WALL PANELS: FORMED WITH 0.020-INCH- (0.50-MM-) THICK, COIL-COATED, ALUMINUM SHEET FACINGS.
   a. PANEL THICKNESS: [0.157 INCH (4 MM)] - 20G STEEL INTERIOR APPLICATION / 18G STEEL EXTERIOR APPLICATION
   b. EXTERIOR FINISH: 2-COAT FLUOROPOLYMER (TIGER DRYLAC OR EQUAL)
   c. COLOR: AS NOTED ON DRAWINGS.
   d. ATTACHMENT SYSTEM COMPONENTS: FORMED FROM MATERIAL COMPATIBLE WITH PANEL FACING.

I. ACCESSORIES
1. WALL PANEL ACCESSORIES: PROVIDE COMPONENTS REQUIRED FOR A COMPLETE METAL-FACED COMPOSITE WALL PANEL ASSEMBLY INCLUDING TRIM, COPINGS, FASCIA MULLIONS, SILLS, CORNER UNIT

DIVISION 7 - THERMAL AND MOISTURE, CONT.

4. TYPE A: ASTM C834; TREMCO "ACRYLIC LATEX CAULK", PECORA "AC-20", SONNEBORN "SONOLAC" OR APPROVED.
5. TYPE SM: MILDEW RESISTANT SILICONE SEALANT: USDA APPROVED; DOW CORNING 786 BY DOW CHEMICAL, GE SANITARY SEALANT OR APPROVED; CLEAR.

C. ACCESSORY MATERIALS:
1. PRIMER: NON-STAINING TYPE, RECOMMENDED BY SEALANT MANUFACTURER TO SUIT APPLICATION.
2. JOINT CLEANER: NON-CORROSIVE AND NON-STAINING TYPE, RECOMMENDED BY SEALANT MANUFACTURER; COMPATIBLE WITH JOINT FORMING MATERIALS.
3. JOINT FILLER: CLOSED CELL POLYETHYLENE FOAM; ROUND PROFILE; THICKNESS: 130% OF JOINT WIDTH.
4. BOND BREAKER: PRESSURE SENSITIVE TAPE RECOMMENDED BY SEALANT MANUFACTURER TO SUIT APPLICATION.
5. COMPRESSIBLE FOAM SEALANT: PRECOMPRESSED PREFACED SELF-ADHESIVE OPEN CELL POLYURETHANE FOAM TAPE; "BACKERSEAL" BY EMSEAL JOINT SYSTEMS, LTD., OR APPROVED.

D. PREPARATION:
1. CLEAN AND PREPARE JOINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMOVE LOOSE MATERIALS AND OTHER FOREIGN MATTER WHICH MIGHT IMPAIR ADHESION OF SEALANT.
2. APPLY MASKING TIGHTLY AROUND JOINTS TO PROTECT ADJACENT SURFACES FROM EXCESS SEALANT.
3. PRIME AS REQUIRED FOR PROPER BOND TO SUBSTRATE MATERIALS.

E. INSTALLATION:
1. PERFORM WORK IN ACCORDANCE WITH ASTM C1193, UNLESS SPECIFIED OTHERWISE OR RECOMMENDED OTHERWISE BY THE SEALANT MANUFACTURER.
2. SEALANT BEADS SHALL HAVE A SECTIONAL WIDTH TO DEPTH RATIO OF 2 TO 1. EXCEPT THAT SEALANT TYPE PT SHALL BE INSTALLED FULL DEPTH WITHOUT BACKING.
3. INSTALL TYPE PTNS SEALANT FULL DEPTH IN TILE EXPANSION JOINTS WITH NO BACKER ROD.
4. TOOL JOINTS CONCAVE, UNLESS INDICATED OTHERWISE. FINISH FREE OF AIR POCKETS, FOREIGN EMBEDDED MATTER, RIDGES, AND SAGS.
5. PROTECT SEALANT IN JOINTS SUBJECT TO DIRT, MOISTURE, AND TRAFFIC DURING THE SEALANT CURING PROCESS. PROTECTION SHALL BE ABLE TO RESIST TRAFFIC WHILE REMAINING SECURELY IN POSITION.

F. SCHEDULE:
1. TYPE S: PROVIDE AT ALL EXTERIOR JOINTS UNLESS SPECIFIED OTHERWISE; STANDARD COLORS AS SELECTED BY ARCHITECT.
2. TYPE PT: PROVIDE AT ALL EXTERIOR HORIZONTAL JOINTS SUBJECT TO TRAFFIC AND ABRASION; STANDARD COLORS AS SELECTED BY ARCHITECT.
3. TYPE PTNS: PROVIDE AT ALL EXPANSION JOINTS IN TILE; CUSTOM COLORS TO MATCH GROUT SAMPLES SUBMITTED BY TILE INSTALLER.
4. TYPE A: PROVIDE AT ALL INTERIOR JOINTS, UNLESS SPECIFIED OTHERWISE; STANDARD COLORS TO MATCH ADJACENT CONSTRUCTION.
5. TYPE SM: PROVIDE AT JOINTS AROUND COUNTERTOPS IN BACH OF HOUSE (BOH) AND RESTROOMS.

DIVISION 8 - OPENINGS

081113 HOLLOW METAL DOORS AND FRAMES

A. SUMMARY:
1. INTERIOR DOOR FRAMES TO BE NOTED ON DOOR SCHEDULE PROVIDE "TIMELY" (OR EQUAL) PRE-FINISHED DOOR FRAME SYSTEMS (METAL) FOR
2. EXTERIOR DOORS AND FRAMES, WHEN INDICATED ON THE DRAWINGS.

B. REGULATORY REQUIREMENTS:
1. WHERE REQUIRED, INSTALLED FRAME AND DOOR ASSEMBLY SHALL CONFORM TO NFPA 80 FOR FIRE RATED CLASS INDICATED.
2. WHERE DOORS ARE NOTED WITH AN HOURLY FIRE RESISTANCE RATING, PROVIDE DOOR AND FRAME ASSEMBLIES LABELED BY UNDERWRITER'S LABORATORY (UL), OR ANOTHER TESTING LABORATORY APPROVED BY THE LOCAL CODE AUTHORITIES, TO MEET THE HOURLY FIRE RATING NOTED. ASSEMBLIES SHALL MEET CODE REQUIREMENTS FOR POSITIVE PRESSURE WHEN REQUIRED.
3. INCLUDE "S" LABEL ON FIRE RATED DOOR ASSEMBLIES LOCATED AT 1 HOUR RATED EXIT CORRIDORS.

C. QUALITY ASSURANCE:
1. CONFORM TO REQUIREMENTS OF ANSI A250.8.

D. ACCEPTABLE MANUFACTURERS: MEMBERS OF THE STEEL DOOR INSTITUTE AND OF THE NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS, SUBJECT TO COMPLIANCE WITH SPECIFIED REQUIREMENTS.

E. MATERIALS: STEEL SHEET, COLD ROLLED ASTM A366, OR HOT ROLLED PICKLED AND OILED SHEET CONFORMING TO ASTM A 569, MINIMUM 30% RECYCLED CONTENT.

F. INTERIOR DOOR CONSTRUCTION:
1. ANSI A250.8; SEAMLESS; MINIMUM 18 GA FACE SHEETS, 16 GA AT INVENTORY ROOM.
2. CORE: VERTICAL STEEL STIFFENERS WITH SOUND DEADENING FILL BETWEEN STIFFENERS, OR RESIN IMPREGNATED KRAFT PAPER HONEY COMB CORE.
3. PROVIDE CONTINUOUSLY WELDED SEAMLESS EDGES. NO PLASTIC FILLERS WILL BE ACCEPTED.
7. 1-3/4 INCH THICK, UNLESS SCHEDULED OTHERWISE.
8. FRAMES: PROVIDED UNDER SECTION 081113.

B. FABRICATION:
1. FABRICATE DOORS TO THE CONFIGURATIONS INDICATED, IN ACCORDANCE WITH THE AWI STANDARDS SPECIFIED, AND TO FIRE RATED LABELING REQUIREMENTS. ATTACH FIRE RATING LABELS.
2. BEVEL LOCK AND HINGE EDGES 1/8 INCH IN 2 INCHES ON ALL SINGLE ACTING DOORS.

DIVISION 8 - OPENINGS, CONT.

3. BOND EDGE BANDING TO SOLID CORE WITH HOT MELT OR RF CURED ADHESIVE.
4. PRE-FIT AND PRE-MACHINE DOORS IN ACCORDANCE WITH AWI 1300-S-6. PRE-MACHINE FOR HARDWARE SPECIFIED IN SECTION 087000, AND LOCATE AS SPECIFIED IN SECTION 087300.
5. DOORS SHALL BE FACTORY PREFINISHED AS SCHEDULED TO MATCH ARCHITECT'S SAMPLE; AWI PREMIUM GRADE, LOW VOC, POLYURETHANE SYSTEM.
6. WHERE REQUIRED TO MEET LABELING REQUIREMENTS, PROVIDE METAL ASTRAGALS TO MEET RATING REQUIREMENTS FOR DOUBLE FIRE DOORS.
7. FACTORY PRE-GLAZE DOORS.
8. FLUSH DOOR BLOCKING: FOR FLUSH DOORS, PROVIDE SOLID LOCK BLOCKS AND SPECIAL BLOCKING AS REQUIRED FOR THE HARDWARE COMPONENTS SPECIFIED ELSEWHERE. BLOCKING FOR FIRE RATED DOORS SHALL MEET THE DOOR MANUFACTURER'S LABELING REQUIREMENTS.

C. INSTALLATION:
1. FIT AND PREPARE DOORS FOR INSTALLATION IN ACCORDANCE WITH THE DOOR MANUFACTURER'S PRINTED INSTRUCTIONS.
2. PROVIDE CLEARANCES OF 1/8 INCH AT JAMBS AND HEADS AND 3/8 INCH FROM BOTTOM OF DOOR TO TOP OF DECORATIVE FLOOR FINISH OR COVERING, EXCEPT WHERE THRESHOLD IS SHOWN OR SCHEDULED PROVIDE 1/4 INCH CLEARANCE FROM BOTTOM OF DOOR TO TOP OF THRESHOLD.

083100 ACCESS DOORS AND PANELS

A. QUALITY ASSURANCE:
1. WHERE ACCESS DOORS ARE INSTALLED IN CONSTRUCTION WITH AN HOURLY FIRE RESISTANCE RATING, PROVIDE DOOR AND FRAME ASSEMBLIES LABELED BY UNDERWRITER'S LABORATORY, WARNOCK HERSEY, OR ANY OTHER TESTING LABORATORY APPROVED BY THE LOCAL CODE AUTHORITIES TO MEET THE REQUIREMENTS OF THE FIRE RATED ASSEMBLY.

B. ACCEPTABLE MANUFACTURERS:
1. MILCOR, INC., LIMA, OH.
2. J.L. INDUSTRIES, BLOOMINGTON, MN.
3. KARP ASSOCIATES, INC., MASPETH, NY.
4. MM SYSTEMS CORPORATION, TUCKER, GA.
5. NYSTROM, MINNEAPOLIS, MN

C. DOOR TYPES:
1. FIRE RATED METAL ACCESS DOOR FOR USE AT RATED PARTITIONS:
a. FLUSH TYPE DESIGN.
b. 16 GA FRAME; MINIMUM 20 GA STEEL WELDED PAN DOOR PANEL INSULATED WITH NON-COMBUSTIBLE FILLER
c. SELF CLOSING AND SELF LATCHING, WITH INTERIOR LATCH RELEASE
d. FULLY CONCEALED PIN TYPE HINGES OR CONTINUOUS PIANO HINGE, 175 DEGREE OPENING.
e. RING TURN LATCH.
2. NON RATED METAL WALL AND CEILING ACCESS DOOR FOR USE AT BACK-OF-HOUSE (BOH) AREAS:
a. FLUSH TYPE DESIGN.
b. 16 GA STEEL FRAME; 14 GA STEEL DOOR PANEL.
c. FOR INSTALLATION IN DRYWALL: INTEGRAL ATTACHMENT FLANGE AND DRYWALL BEAD FOR FLUSH INSTALLATION.
d. FULLY CONCEALED PIN TYPE HINGES OR CONTINUOUS PIANO HINGE, 175 DEGREE OPENING.
e. HARDWARE: SCREW DRIVER SLOT, QUARTER TURN CAM LOCK FOR INTERIOR LOCATIONS; 2'-0" O.C., MAXIMUM.
3. NON RATED CONCEALED DRYWALL ACCESS DOOR FOR USE AT SALES FLOOR AREAS:
a. RECESSSED TYPE DESIGN.
b. MINIMUM 13 GA STEEL FRAME; MINIMUM 16 GA STEEL DOOR PANEL RECESSED TO RECEIVE DRYWALL.
c. INTEGRAL ATTACHMENT FLANGE AND DRYWALL BEAD FOR FLUSH INSTALLATION.
d. FULLY CONCEALED PIVOT ROD HINGE.
e. LATCHES: SCREW DRIVER OPERATED CAM LATCH.

4. HIGH-SECURITY WALL ACCESS DOOR:
a. KARP ASSOCIATES, INC., "DSB-123SD SECURITY ACCESS DOOR," NYSTROM "HS-GMZ" OR APPROVED.
b. SIZE: 24 IN X 24 IN.
c. FRAMES: 3/16" X 2" X 2" ANGLE WELDED WITH JOINTS GROUND SMOOTH; APPLIED 1/8" X 1" X 1" STOP ON FOUR SIDES.
d. DOOR: 10 GA STEEL PLATE.
e. HINGES: PROVIDE FULLY CONCEALED HINGE(S).
f. LOCK: PREPARED FOR INTERCHANGEABLE 5-PIN CYLINDER LOCK, AS SPECIFIED IN SECTION 087100.
g. WEATHERSTRIP: PROVIDE CONTINUOUS SEAL AS NECESSARY TO MAINTAIN ASSEMBLY WATERTIGHT WHEN CLOSED.
h. FINISH: FACTORY PRIMED FOR FIELD FINISH WITH MANUFACTURER'S STANDARD RUST-INHIBITIVE POWDER COAT, COLOR TO MATCH ADJACENT CONSTRUCTION.

D. MINIMUM SIZES: PROVIDE ACCESS DOORS IN SIZES INDICATED. WHEN NOT INDICATED OR SPECIFIED OTHERWISE, PROVIDE 12" X 12" SIZE FOR HAND ACCESS, AND 24" X 24" SIZE FOR MAN ENTRY.

E. INSTALLATION:
1. PROVIDE ACCESS DOORS IN THE LOCATIONS INDICATED, AND FOR ACCESS TO BALANCING AND FIRE DAMPERS, TRAP PRIMERS, VALVES, FANS, TERMINAL UNITS, AND OTHER EQUIPMENT REQUIRING PERIODIC INSPECTION THROUGH FINISHED WALLS OR CEILING, WHETHER INDICATED OR NOT.
2. COORDINATE ACCESS REQUIREMENTS WITH OTHER TRADES.
3. PROVIDE CONCEALED DRYWALL ACCESS DOORS UNLESS FIRE RATED ACCESS DOORS ARE REQUIRED BECAUSE OF FIRE RATED CONSTRUCTION.

083326 OVERHEAD COILING SHUTTERS

A. OVERHEAD COILING SHUTTER ASSEMBLIES SHALL INCLUDE SHUTTERS, GUIDES, BRACKETS, COUNTERBALANCE, HOOD, MOTOR, CONTROL MECHANISMS, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

B. QUALITY ASSURANCE
1. INSTALLERS: INSTALLATION SHALL BE PERFORMED BY A FACTORY TRAINED AND AUTHORIZED REPRESENTATIVE.

C. APPROVED MANUFACTURER (ONE OF THE FOLLOWING, NO SUBSTITUTIONS):
1. OMI SECURITY SOLUTIONS (ITASCA IL: 630-529-7111)
2. NSBS (800-804-0059) FOR EXTERIOR GRILLS ONLY.

D. SHUTTER TYPE: AS INDICATED AND IN ACCORDANCE WITH T-MOBILE NATIONAL ACCOUNT REQUIREMENTS.

E. EXAMINATION
1. PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK OF THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
2. DO NOT BEGIN INSTALLATION UNTIL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.

F. INSTALLATION
1. INSTALL SHUTTER AND OPERATING EQUIPMENT COMPLETE WITH ACCESSORIES IN ACCORDANCE APPROVED SHOP DRAWINGS, AND MANUFACTURER'S RECOMMENDATIONS.

G. FIELD QUALITY CONTROL
1. VERIFY THAT MOVING PARTS OPERATE SMOOTHLY, COILING SHUTTERS ARE FREE FROM WARP, TWISTS, OR DISTORTION, SHUTTERS REMAIN IN REQUIRED POSITION, AND SAFETY FEATURES FUNCTION PROPERLY.
2. REPAIR DAMAGE TO OVERHEAD COILING SHUTTERS TO MATCH MANUFACTURER'S ORIGINAL FINISH. REPLACE COMPONENTS WHICH CANNOT BE PROPERLY REPAIRED.
3. ADJUST MECHANISM SO MOVING PARTS OPERATE SMOOTHLY.

H. COLOR
1. PROVIDE ANODIZED ALUMINUM FINISH, REGARDLESS OF STOREFRONT WINDOW COLOR.

084113 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

A. SUMMARY:
1. EXTERIOR ALUMINUM FRAMED STOREFRONT AND WINDOW SYSTEMS.
2. INTERIOR ALUMINUM FRAMED STOREFRONT SYSTEMS.
3. ALUMINUM FRAMED GLASS DOORS.

B. REFERENCES:
1. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):
2. B209 - ALUMINUM AND ALUMINUM ALLOY SHEET AND PLATE.
3. B221 - ALUMINUM ALLOY EXTRUDED BARS, RODS, WIRE, SHAPES, AND TUBES.
4. E283 - RATE OF AIR LEAKAGE THROUGH EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS.
5. E330 - STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE.

DIVISION 8 - OPENINGS, CONT.

6. ARCHITECTURAL ALUMINUM MANUFACTURER'S ASSOCIATION (AAMA).

C. SYSTEM DESCRIPTION:
1. PERFORMANCE - EXTERIOR ALUMINUM WINDOW AND STOREFRONT SYSTEM:
a. SYSTEM SHALL ACCOMMODATE EXPANSION AND CONTRACTION CAUSED BY A TEMPERATURE RANGE OF 20 DEGREES TO 140 DEGREES F. WITHOUT DETRIMENTAL EFFECTS TO COMPONENTS, SEALING SYSTEMS, AND SURROUNDING CONSTRUCTION.
b. DESIGN SYSTEM WITH PROVISIONS TO DRAIN MOISTURE TO THE EXTERIOR OF THE SYSTEM.
c. AIR INFILTRATION: SHALL NOT EXCEED .06 CFM PER SQUARE FOOT OF FIXED AREA WHEN TESTED IN ACCORDANCE WITH ASTM E 283.
d. WATER INFILTRATION: NO WATER PENETRATION AT A TEST PRESSURE OF 6.24- LB/SQ FT. WHEN MEASURED IN ACCORDANCE WITH ASTM E 331.
2. WINDOW AND STOREFRONT STRUCTURAL DESIGN:
a. DESIGN AND SIZE MEMBERS TO WITHSTAND POSITIVE AND NEGATIVE WIND LOADS AS REQUIRED BY THE CURRENTLY ENFURCED EDITION OF THE BUILDING CODE.
b. LIMIT MULLION DEFLECTION TO 1/175, OR FLEXURE LIMIT OF GLASS WITH FULL RECOVERY OF GLAZING MATERIALS, WHICHEVER IS LESS.

D. WARRANTY: FURNISH FIVE YEAR WRITTEN WARRANTY EXECUTED TO T-MOBILE, FROM THE MANUFACTURER OF THE STOREFRONT SYSTEM, AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP, IN ACCORDANCE WITH DIVISION 1.

E. MATERIALS:
1. EXTRUDED ALUMINUM: ASTM B 221; 6063 T5 ALLOY AND TEMPER.
2. SHEET ALUMINUM: ASTM B 209; 5005-H32 ALLOY, OR APPROVED.

F. COMPONENTS:
1. EXTERIOR STOREFRONT AND WINDOW FRAMING:
a. PARTIAL REPLACEMENT: WHERE NEW ENTRANCE OR FRAMING IS INDICATED TO BE INSTALLED ALONG WITH EXISTING TO REMAIN, MATCH DIMENSIONS, PROFILE, GLAZING THICKNESS AND FINISH OF EXISTING ALUMINUM WINDOW FRAMING INDICATED TO REMAIN.
b. WHERE STOREFRONT SYSTEM AS INDICATED ON THE DRAWINGS IS NEW, PROVIDE MANUFACTURER'S STANDARD NOMINAL 2" X 4" CENTER-GLAZED THERMALLY BROKEN STOREFRONT FRAMING SYSTEM.
2. INTERIOR (WALL) STOREFRONT AND WINDOW FRAMING: MANUFACTURER'S STANDARD NOMINAL 2" X 4" CENTER-GLAZED NON-THERMALLY BROKEN STOREFRONT FRAMING SYSTEM.
3. ACCEPTABLE MANUFACTURERS: KAWNEER, YKK, EFCO, ARCADIA. UNLESS OTHERWISE SPECIFIED
4. DOORS: EXTRUDED ALUMINUM FRAME; MEDIUM STILE; PROVIDE WITH SPECIAL 10 INCH HIGH BOTTOM RAIL.
5. DOOR HARDWARE:
a. PROVIDE MANUFACTURER'S STANDARD OFFSET PIVOT HINGES, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
b. MANUFACTURER'S STANDARD WEATHERSTRIPPING, INCLUDING BOTTOM SWEEP.
c. BALANCE OF HARDWARE IS LISTED ON THE DRAWINGS.
d. GLAZING BEADS: MANUFACTURER'S STANDARD EPDM OR NEOPRENE GLAZING BEADS, FOR A COMPLETE WEATHERPROOF SEAL. FURNISH FOR INSTALLATION AS A PART OF THE WORK OF SECTION 088000.

G. FABRICATION:
1. FABRICATE FRAMES ALLOWING FOR SHIM SPACING AROUND PERIMETER OF ASSEMBLY, YET ENABLING INSTALLATION.
2. OPENIGLY FIT JOINTS AND CORNERS. ACCURATELY FIT AND SECURE CORNERS TIGHT. MAKE CORNER JOINTS FLUSH, HAIRLINE, AND WEATHERPROOF. SEAL JOINTS WITH SEALANT.
3. PROVIDE DRAINAGE HOLES TO ALLOW WATER TO FLOW TO EXTERIOR.
4. PREPARE COMPONENTS TO RECEIVE ANCHORAGE DEVICES. FABRICATE ANCHORAGE ITEMS.
5. PROVIDE INTERNAL REINFORCEMENT IN MULLIONS WITH MEMBERS TO MAINTAIN RIGIDITY. PROVIDE REINFORCING AT ALL DOOR STRIKE JAMBS.
6. FABRICATE STOREFRONT SYSTEM TO ACCOMMODATE HARDWARE USING TEMPLATES FURNISHED FROM SECTION 087100.
7. FABRICATE CUSTOM EXTRUSIONS, CLOSURES, AND SHEET MATERIALS TO THE SHAPES INDICATED; FABRICATE FOR ATTACHMENT WITH CONCEALED FASTENERS TO THE GREATEST POSSIBLE EXTENT.

H. FINISH:
1. ANODIZED FINISH: MANUFACTURER'S STANDARD ANODIZED FINISH; .7 MIL MINIMUM THICKNESS; CLEAR, UNLESS INDICATED OTHERWISE ON THE DRAWINGS. PROVIDE AT ALL EXPOSED ALUMINUM SURFACES.

I. INSTALLATION:
1. INSTALL FRAMES, DOORS, AND HARDWARE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. USE ANCHORAGE DEVICES TO SECURELY ATTACH FRAME TO STRUCTURE.
3. ALIGN FRAMES PLUMB AND LEVEL, FREE OF WARP OR TWIST. MAINTAIN DIMENSIONAL TOLERANCES, ALIGNING WITH ADJACENT WORK.
4. INSTALL ALUMINUM FLASHING AT HEAD AND SILL. FINISH TO MATCH STOREFRONT AND WINDOWS.
5. PERIMETER SEALANT IS PROVIDED UNDER SECTION 079200.
6. ADJUST HARDWARE INSTALLED IN THIS SECTION FOR SMOOTH OPERATION.
7. PROTECT ALUMINUM FROM DISSIMILAR MATERIALS WITH A COATING OF BITUMINOUS PAINT, A MINIMUM 1-MIL THICKNESS OF ZINC CHROMATE PRIMER, PLASTIC SEPARATOR MATERIALS, OR ISOLATION TAPE. KEEP ISOLATION MATERIALS UNEXPOSED TO VIEW.

087100 DOOR HARDWARE

A. SUPPLIER: FINISH HARDWARE SHALL BE SUPPLIED BY RECOGNIZED BUILDERS HARDWARE SUPPLIER WHO HAS BEEN FURNISHING HARDWARE IN THE SAME AREA AS THE PROJECT FOR A PERIOD OF NOT LESS THAN TWO YEARS. THE SUPPLIER'S ORGANIZATION SHALL INCLUDE A MEMBER OF THE AMERICAN SOCIETY OF ARCHITECTURAL HARDWARE CONSULTANTS WHO IS AVAILABLE AT ALL REASONABLE TIMES DURING THE COURSE OF THE WORK TO MEET WITH T-MOBILE, ARCHITECT OR CONTRACTOR FOR PROJECT HARDWARE CONSULTATION.

B. INSTALLER: FINISH HARDWARE SHALL BE INSTALLED ONLY BY EXPERIENCED TRADESMEN IN COMPLIANCE WITH TRADE UNION JURISDICTIONS, EITHER AT THE DOOR AND FRAME FABRICATION PLANT OR AT THE PROJECT SITE.

C. CODES:
1. ALL FINISH HARDWARE SHALL COMPLY WITH APPLICABLE LOCAL AND/OR STATE CURRENT BUILDING CODES.
2. HARDWARE FOR FIRE-RATED OPENINGS SHALL ALSO BE IN COMPLIANCE WITH ALL FIRE BUILDING CODES APPLICABLE TO THE DISTRICT IN WHICH THE BUILDING IS LOCATED. PROVIDE ONLY HARDWARE WHICH HAS BEEN TESTED AND LISTED BY UL FOR THE TYPES AND SIZES OF DOORS REQUIRED, AND WHICH COMPLIES WITH THE REQUIREMENTS OF THE DOOR AND DOORFRAME LABELS.
3. PROVIDE SMOKE SEALS AS REQUIRED AT EACH FIRE-RATED OPENING.

D. DELIVERY: DELIVER ALL HARDWARE IN MANUFACTURERS' ORIGINAL UNOPENED UNDAMAGED PACKAGES, CLEARLY IDENTIFYING MANUFACTURER, BRAND NAME, AND CONTENTS.

E. IN ADDITION TO REQUIRED ONE YEAR WARRANTY UNDER CONDITIONS OF THE CONTRACT, FURNISH 5-YEAR UNCONDITIONAL GUARANTEES FOR ALL DOOR CLOSERS, UNDER PROVISIONS OF DIVISION 1.

F. FACTORY REPRESENTATIVES FOR DOOR CLOSERS, EXIT BOLTS, AND LOCKSETS SHALL BE AVAILABLE DURING THE CONSTRUCTION TO INSTRUCT THE CONTRACTOR ON THE PROPER METHOD OF INSTALLATION OF THEIR MATERIALS. THEY SHALL INSPECT AND ADJUST THEIR MATERIALS AT THE COMPLETION OF THE WORK, AND SUPPLY PROPER MAINTENANCE MANUALS TO T-MOBILE.

G. FURNISH 2 SETS OF SPECIAL TOOLS FOR INSTALLATION AND MAINTENANCE OF HARDWARE. TOOLS FOR MAINTENANCE AND ADJUSTMENTS ARE TO BE DELIVERED TO T-MOBILE UPON COMPLETION OF THE WORK.

H. IN GENERAL, UNLESS OTHERWISE INDICATED, FINISHES SHALL BE SATIN CHROME US26D.

I. GENERAL: CONSTRUCTION MASTERKEY ALL LOCKSETS AND CYLINDER ITEMS; PROVIDE 6 CONSTRUCTION MASTERKEYS.

J. KEYING: CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL KEYING, AS FOLLOWS:
1. CONSULT WITH T-MOBILE'S AUTHORIZED REPRESENTATIVE AND PREPARE DETAILED KEYING SCHEDULE ACCORDINGLY. T-MOBILE'S REPRESENTATIVE WILL COORDINATE KEYING REQUIREMENTS WITH AUTHORIZED REPRESENTATIVE OF HARDWARE SUPPLIER.
2. STAMP "DO NOT DUPLICATE" ON ALL KEYS.

K. BUTTS:
1. IN THE FOLLOWING PARAGRAPHS WHERE HAGER NUMBERS ARE LISTED, EQUIVALENT ITEMS OF LAWRENCE, MCKINNEY SALES COMPANY, OR THE STANLEY WORKS MAY BE SUPPLIED.
2. EXTERIOR DOORS (OUTSWING) 38" WIDE OR LESS SHALL HAVE HAGER BB1191 BUTTS, SIZE 4 1/2 X 4 1/2.
3. INTERIOR DOORS 38" WIDE OR LESS SHALL HAVE HAGER BB1279 BUTTS, SIZE 4 1/2 X 4 1/2.
4. PROVIDE BUTTS ON EXTERIOR DOORS WITH NON-REMOVABLE PINS (SET SCREW IN BARREL, PIN NON-REMOVABLE WHEN DOOR IS CLOSED), AND SAFETY STUD.
5. PROVIDE FULL THREADED WOOD SCREWS FOR WOOD DOORS AND/OR JAMBS.
6. BUTT WIDTHS LISTED ARE MINIMUM. PROVIDE BUTTS OF WIDER THROW TO SUITE CONDITIONS FOR 180° OPERATION OF DOORS, STRUCTURAL CONDITIONS PERMITTING.

DIVISION 8 - OPENINGS, CONT.

L. LOCKSETS, DEADLOCKS, CYLINDERS AND PADLOCKS:
1. MANUFACTURER:
A. LOCKS AND DEADLOCKS - AS NOTED IN HARDWARE SCHEDULE ON DRAWINGS
B. CYLINDERS AND PADLOCKS - AS NOTED IN HARDWARE SCHEDULE ON DRAWINGS
2. PROVIDE NEW CYLINDER AT EACH EXISTING DOOR THAT HAS DEADLOCK OR LOCKSET.
3. PROVIDE LOCK STRIKES WITH MINIMUM PROJECTION TO PROTECT TRIM.
4. PROVIDE WROUGHT BOXES FOR LOCKSETS AND DEADLOCKS.
5. PROVIDE DEADLOCKS WITH ARMORED FRONTS.
6. FUNCTION AS INDICATED IN HARDWARE GROUPS.
7. DEAD BOLTS AT EXTERIOR DOORS SHALL HAVE A MINIMUM THROW OF 1 INCH AND MINIMUM EMBEDMENT OF ¾ INCH.
8. TYPES: AS INDICATED ON THE DRAWINGS.

M. ELECTRONIC HARDWARE
1. TYPES: AS INDICATED ON THE DRAWINGS.

N. DOOR CLOSERS:
1. MANUFACTURERS:
a. OVERHEAD CLOSERS: LCN OR RIXSON.
b. FLOOR CLOSERS: LCN OR RIXSON.
2. ALL OVERHEAD CLOSERS TO BE MOUNTED ON INTERIOR SIDE OF DOOR. NO THRU BOLTS.
3. PROVIDE MOUNTING BRACKETS AND PROPER LENGTH ARMS TO SUIT ALL CONDITIONS. PROVIDE ARM OPTIONS AS SCHEDULED OR RECOMMENDED BY MANUFACTURER. FINISH SHALL MATCH LOCKSETS
4. SIZES SHALL BE AS RECOMMENDED BY THE MANUFACTURER. CLOSERS SHALL HAVE A 5-YEAR UNCONDITIONAL GUARANTEE.
5. PROVIDE STANDARD FULL COVERS AT OVERHEAD CLOSERS; FINISH TO MATCH ARMS, UNLESS OTHERWISE INDICATED.
6. CLOSURE PRESSURE: SET TO 5 POUNDS FOR BOTH EXTERIOR AND INTERIOR DOORS, PER CURRENT REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT, UNLESS REQUIRED OTHERWISE BY LOCAL JURISDICTIONAL AUTHORITIES.
7. TYPES: AS INDICATED ON THE DRAWINGS.

O. DOOR STOPS AND OVERHEAD STOPS: AS SCHEDULED.
1. LOCATE FLOOR STOPS FREE FROM OBSTRUCTION TO TRAFFIC.
2. TYPES: AS INDICATED ON THE DRAWINGS.

P. PUSH/PULL BARS AND SETS:
1. TYPES: AS INDICATED ON THE DRAWINGS.

Q. WEATHERSTRIP, THRESHOLDS, DOOR BOTTOM AND GASKETS:
1. MANUFACTURER: PEMKO MFG. CO., OR APPROVED EQUAL BY RIXSON.
2. TYPES: AS INDICATED ON THE DRAWINGS.

R. MISCELLANEOUS:
1. PROVIDE SILENCERS FOR ALL DOORJAMBS, 3 FOR SINGLE JAMBS AND 4 FOR DOUBLE JAMBS.
2. TYPES: AS INDICATED ON THE DRAWINGS.

S. FURNISH FOR EACH DOOR THE ITEMS SCHEDULED WITHIN THE DESIGNATED HARDWARE GROUPS AS SHOWN ON THE DRAWINGS.

T. ADJUSTMENTS AND TESTING:
1. ADJUST AND CHECK EACH OPERATING ITEM OF HARDWARE AND EACH DOOR TO ENSURE PROPER OPERATION OF FUNCTION OF EVERY UNIT.
2. LUBRICATE MOVING PARTS WITH GRAPHITE TYPE LUBRICANT UNLESS OTHERWISE RECOMMENDED BY THE HARDWARE MANUFACTURER.
3. REPLACE UNITS WHICH CANNOT BE ADJUSTED AND LUBRICATED TO OPERATE FREELY AND SMOOTHLY AS INTENDED FOR THE APPLICATION MADE.
4. ADJUST CLOSER PRESSURES AS SPECIFIED IN SECTION 087100, UNLESS OTHERWISE REQUIRED BY JURISDICTIONAL AUTHORITIES.
5. TESTING:
a. TEST CLOSER FOR COMPLIANCE WITH REQUIREMENTS OF SECTION 087100, INCLUDING OPENING FORCE AND CLOSING SPEED REQUIRED BY JURISDICTIONAL AUTHORITIES.
b. PROVIDE TESTING DEVICE, OPERATE TEST AT EACH DOOR, AND PROVIDE A WRITTEN REPORT ON RESULTS OF TESTS.
c. TESTING DEVICE SHALL REMAIN IN THE POSSESSION OF T-MOBILE.

087300 DOOR AND HARDWARE INSTALLATION

A. QUALITY ASSURANCE: INSTALLERS OF DOORS AND FINISH HARDWARE SHALL BE SKILLED MECHANICS REGULARLY EMPLOYED IN THE DOOR HARDWARE INDUSTRY AND EXPERIENCED IN THE INSTALLATION OF DOORS AND DOOR HARDWARE.

B. DOORS, FRAMES, AND HARDWARE: SPECIFIED IN OTHER SECTIONS.

C. DOOR AND HARDWARE INSTALLATION
1. FIT AND PREPARE DOORS FOR INSTALLATION IN ACCORDANCE WITH THE DOOR MANUFACTURER'S PRINTED INSTRUCTIONS.
2. INSTALL DOORS PLUMB AND SQUARE.
3. PROVIDE CLEARANCES OF 1/8 INCH AT JAMBS AND HEADS, 1/8 INCH AT MEETING STILES FOR PAIRS OF DOORS, AND ½ INCH FROM BOTTOM OF DOOR TO TOP OF DECORATIVE FLOOR FINISH OR COVERING, EXCEPT WHERE THRESHOLD IS SHOWN OR SCHEDULED PROVIDE 1/4-INCH CLEARANCE FROM BOTTOM OF DOOR TO TOP OF THRESHOLD.
4. INSTALL ROSES, KICK PLATES, CLOSERS, AND OTHER SURFACE MOUNTED HARDWARE ONLY AFTER DOOR FINISHING IS COMPLETE AND FINISHES ARE COMPLETELY CURED.
5. FIT HOLLOW METAL DOORS IN ACCORDANCE WITH SDI 100.
6. FINISH HARDWARE INSTALLATION
a. INSTALLER SHALL RECEIVE DELIVERY AND UNPACK, TAG, INDEX, AND FILE ALL KEYS. KEEP HARDWARE IN A SEPARATE ROOM UNDER LOCK AND KEY AT THE SITE UNTIL INSTALLATION IS MADE.
b. VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR THE CORRECT INSTALLATION AND FIT OF HARDWARE AT THE LOCATIONS INDICATED ON THE DRAWINGS AND AS SPECIFIED.
c. INSTALL EACH HARDWARE ITEM IN COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
d. WHEREVER CUTTING AND FITTING ARE REQUIRED TO INSTALL HARDWARE ONTO OR INTO SURFACES WHICH ARE LATER TO BE PAINTED OR FINISHED IN ANOTHER WAY, INSTALL EACH ITEM COMPLETELY AND THEN REMOVE AND STORE IN A SECURE PLACE DURING THE FINISH APPLICATION. AFTER COMPLETION OF THE FINISHES, REINSTALL EACH ITEM. DO NOT INSTALL SURFACE-MOUNTED ITEMS UNTIL FINISHES HAVE BEEN COMPLETED ON THE SUBSTRATE.
e. HARDWARE MOUNTING HEIGHTS: AS IND

DIVISION 8 - OPENINGS, CONT.

E. COMPLY WITH UBC REQUIREMENTS FOR IDENTIFICATION AND LABELING OF SAFETY-GLAZING MATERIALS IN HAZARDOUS LOCATIONS SUBJECT TO HUMAN IMPACT LOADS.
3. GLAZING CLIPS:
a. PROVIDE GLAZING CLIPS AS INDICATED IN DRAWINGS
b. C.R. LAURENCE CO., INC.: 90 DEGREE; FINISH: POLISHED STAINLESS; PRODUCT: MFC34 - 2" DIA.
c. C.R. LAURENCE CO., INC.: 135 DEGREE; FINISH: POLISHED STAINLESS; PRODUCT: MFC38 - 2" DIA.
d. C.R. LAURENCE CO., INC.: 180 DEGREE; FINISH: POLISHED STAINLESS; PRODUCT: MFC30 - 2" DIA.
F. PREPARATION:
1. CLEAN CONTACT SURFACES AND WIPE DRY.
2. SEAL FRAME CORNER JOINTS, AND OTHER LEAKAGE POINTS WITH SEALANT. AT INSULATING GLASS UNITS THE SEALANT SHALL BE COMPATIBLE WITH THE SEAL OF THE UNIT. DO NOT PLUG WEEP HOLES.
3. PRIME SURFACES SCHEDULED TO RECEIVE SEALANT,UNLESS OTHERWISE RECOMMENDED BY THE SEALANT MANUFACTURER.
F. INSTALLATION:
1. UNLESS SPECIFIED OTHERWISE, GLAZE IN ACCORDANCE WITH THE CURRENT EDITION OF GLASS ASSOCIATION OF NORTH AMERICA (GANA): GLAZING MANUAL.
2. SETTING BLOCKS: PLACE SETTING BLOCKS IN FRAMES FOR SUPPORT OF GLASS. PLACE AT QUARTER POINTS UNLESS APPROVED OTHERWISE.
3. SET GLASS TIGHTLY IN POSITION WITH PROPER CLEARANCES IN ACCORDANCE WITH THE REFERENCED STANDARD.
4. UNLESS SPECIFIED OTHERWISE, GLAZE UNITS WITH GASKETS FURNISHED WITH THE FRAMING SYSTEMS SPECIFIED IN OTHER SECTIONS.
5. GLAZING FOR INTERIOR NON-RATED DOORS AND WINDOWS, WHERE GASKETS ARE NOT FURNISHED:
a. GLAZE WITH GLAZING TAPE.
b. PRE-MEASURE AND CUT TAPES TO REQUIRED LENGTHS; ADHERE TO FIXED STOPS, SETTING HORIZONTAL TAPE AT HEADS AND SILLS BEFORE VERTICAL TAPE.
c. INSTALL TAPE WITH TIGHT BUTT JOINTS; NO OVERLAPS WILL BE ACCEPTED. SET TAPE WITH STRAIGHT LINES LEVEL WITH FRAME SIGHT LINE.
d. POSITION GLASS, UNIFORMLY SEALING AGAINST TAPE. INSTALL INSIDE REMOVABLE STOPS AND PLACE TAPE IN STOPS FORMING A UNIFORM SEAL AGAINST GLASS, LEVEL WITH SIGHT LINES.
6. GLAZING FOR FIRE RATED DOORS AND WINDOWS: GLAZE IN ACCORDANCE WITH NFPA 80, UNLESS REQUIRED OTHERWISE BY THE LABELING REQUIREMENT OF THE FRAME.
7. ADJUST GLAZING MATERIALS TO FORM A UNIFORM SIGHT LINE.
G. SCHEDULE:
1. TYPE 1: CLEAR TEMPERED GLAZING WHERE INDICATED AND SPECIFIED.
2. TYPE 2: INSULATING GLASS, DOUBLE GLAZED UNITS WITH 1/2 INCH AIR SPACE BETWEEN TWO PANES OF 1/4 INCH GLASS; OUTER PANE SHALL BE TINTED HEAT STRENGTHENED OR TEMPERED GLASS; INNER PANE SHALL BE CLEAR GLASS.
3. PROVIDE TEMPERED WHERE INDICATED AND SPECIFIED. WHERE NOT REQUIRED BY CODE TO BE TEMPERED, PROVIDE ANNEALED, HEAT-STRENGTHENED OR TEMPERED GLASS AS DETERMINED BY GLASS MANUFACTURER'S GLASS ANALYSIS.
H. PROVIDE TEMPERED GLASS IN HAZARDOUS LOCATIONS TO MEET THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.

DIVISION 9 - FINISHES

090561.13 MOISTURE VAPOR EMISSION CONTROL

A. GENERAL: PRE-FORMED MOISTURE SUPPRESSION MEMBRANE INSTALLED OVER CONCRETE SUBFLOOR AS A FLOOR COVERING UNDERLAYMENT.
B. REFERENCES:
1. D3273-00- STANDARD TEST METHOD FOR RESISTANCE TO GROWTH OF MOLD ON THE SURFACE OF INTERIOR COATINGS IN AN ENVIRONMENTAL CHAMBER
2. E-96-05 - STANDARD TEST METHODS FOR WATER VAPOR TRANSMISSION OF MATERIALS
3. F 2170 - STANDARD TEST METHOD FOR DETERMINING RELATIVE HUMIDITY IN CONCRETE FLOOR SLABS USING IN SITU PROBES
C. SUBMITTALS:
1. MANUFACTURER'S CURRENT INSTALLATION INSTRUCTIONS
2. MANUFACTURER'S WARRANTY REGISTRATION WITH CONCRETE SUBFLOOR MOISTURE TEST RESULTS AND BUILDING AMBIENT AIR TEMPERATURE AND RELATIVE HUMIDITY TEST RESULTS.
D. COORDINATION: COORDINATE THIS SECTION OF WORK AND DIRECTLY RELATED SECTIONS WITH CONCRETE FLOOR CONSTRUCTION AND REPAIR AND FINISH FLOORING WORK.
E. MATERIALS
1. MANUFACTURER: HALEX CORPORATION; VERSASHIELD. WWW.HALEXCORP.COM (800)576-1636
2. PRODUCT NAME: VERSASHIELD 95 FLOORING UNDERLAYMENT
a. MATERIAL: FREE-STANDING, DIMENSIONALLY STABLE, 4-PLY COMPOSITE PRODUCT, ENGINEERED AS A MOISTURE SUPPRESSION MEMBRANE TO BE USED ON CONCRETE FLOORS WHERE HIGH MOISTURE EXISTS.
b. DIMENSIONS: [144 FT LONG BY 5 FT WIDE] STANDARD ROLL.
c. MOLD, MILDEW & FUNGAL RESISTANCE, ASTM D3273: 10 RATING
d. MOISTURE VAPOR TRANSMISSION RATE, ASTM E96-05: LESS THAN 0.01 G/HR/ SQ M
e. NO SUBSTITUTIONS PERMITTED
3. PRODUCT NAME: VERSASHIELD MBX FLOORING UNDERLAYMENT
a. MATERIAL: FREE-STANDING, DIMENSIONALLY STABLE, 4-PLY COMPOSITE PRODUCT, ENGINEERED AS A MOISTURE SUPPRESSION MEMBRANE TO BE USED ON CONCRETE FLOORS WHERE HIGH MOISTURE EXISTS.
b. DIMENSIONS: [144 FT LONG BY 5 FT WIDE] STANDARD ROLL.
c. MOLD, MILDEW & FUNGAL RESISTANCE, ASTM D3273: 10 RATING
d. MOISTURE VAPOR TRANSMISSION RATE, ASTM E96-05: LESS THAN 0.01 G/HR/ SQ M
e. NO SUBSTITUTIONS PERMITTED
4. ACCESSORIES: VERSASHIELD TAPE
a. APPLICATION: JOINING OF MOISTURE SUPPRESSION UNDERLAYMENT SEAMS
b. DESCRIPTION: MEMBRANE MANUFACTURER'S MOISTURE SUPPRESSION TAPE WITH PRESSURE SENSITIVE ADHESIVE.
F. EXAMINATION
1. REFERENCE: SECTION 017000: VERIFY EXISTING CONDITIONS BEFORE STARTING WORK.
2. VERIFY THAT SUB-FLOOR SURFACES ARE SMOOTH AND FLAT WITHIN TOLERANCES SPECIFIED FOR THE TYPE OF WORK AND ARE READY TO RECEIVE FLOORING.
3. VERIFY THAT SUB-FLOOR IS PREPARED PER ASTM 710. REMOVE COATINGS, INCLUDING CURING COMPOUNDS, AND OTHER SUBSTANCES THAT ARE INCOMPATIBLE WITH ADHESIVES AND THAT CONTAIN SOAP, WAX, OILS, OR SILICONE, WITHOUT USING SOLVENTS. DO NO INSTALL FLOORING IF ALKALINITY EXCEEDS 9 PH.
4. VERIFY SUB-FLOOR MOISTURE TEST RESULTS BY CONDUCT RELATIVE HUMIDITY PER ASTM F2170. DO NOT INSTALL FLOORING IS RH EXCEED 75% RELATIVE HUMIDITY. REPORT MOISTURE TEST RESULTS TO ARCHITECT PRIOR TO FLOOR INSTALLATION.
a. IF SUB-FLOOR TEST RESULTS EXCEED 75% RELATIVE HUMIDITY AND 9 PH, PROVIDE AND INSTALL MOISTURE MITIGATION SYSTEM, VERSASHIELD 95 UP TO 95% RELATIVE HUMIDITY OR VERSASHIELD MBX UP TO 99% RELATIVE HUMIDITY.
b. DO NOT INSTALL IF RH WITHIN THE CONCRETE EXCEEDS 99%
G. INSTALLATION
1. INSTALL MOISTURE SUPPRESSION MEMBRANE WITH SMOOTH FILM SIDE FACING CONCRETE SLAB.
2. INSTALL IN ACCORDANCE WITH MEMBRANE MANUFACTURER'S CURRENT WRITTEN INSTALLATION INSTRUCTIONS.
3. IF ANY JOBSITE CONDITION INTERFERES WITH COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS, CONTACT MANUFACTURER AND OBTAIN WRITTEN JOB-SPECIFIC PROCEDURES. NOTIFY ARCHITECT OR T-MOBILE'S REPRESENTATIVE AS REQUIRED.
4. ADHESIVES - APPLY ADHESIVE TO MINERAL-COATED SURFACE OF MOISTURE SUPPRESSION MEMBRANE. USE ONLY WATER-BASED ADHESIVES. DO NOT USE SOLVENT-BASED ADHESIVES.
5. PROTECTION - PROTECT MOISTURE SUPPRESSION MEMBRANE FROM DAMAGE DURING FLOORING INSTALLATION. DO NOT TEAR, RIP, PUNCTURE, OR DELAMINATE MEMBRANE WHEN APPLYING TROWEL-ON ADHESIVE. REPAIR DAMAGED AREAS ACCORDING TO MEMBRANE MANUFACTURER'S INSTRUCTIONS BEFORE FLOORING INSTALLATION. PROVIDE CONTINUOUS, INTACT MOISTURE SUPPRESSION MEMBRANE UNDER ENTIRE DESIGNATED FLOORING AREA.
6. INSTALL FLOORING ACCORDING TO FLOORING MANUFACTURER'S INSTRUCTIONS

DIVISION 9 - FINISHES, CONT.

092200 LIGHT GAGE METAL SUPPORT FRAMING

A. SUMMARY: INTERIOR PARTITION, CEILING, AND SOFFIT CONSTRUCTION, NOT COVERED BY SECTION 054000.
B. SYSTEM DESCRIPTION:
1. STRUCTURAL DESIGN:
a. SELECT FRAMING SYSTEMS, GAGES, SUPPORTS, BRACING, AND CONNECTIONS AS NECESSARY TO MEET THE STRUCTURAL REQUIREMENTS SPECIFIED.
b. PARTITION FRAMING SHALL CONFORM TO THE WIDTHS INDICATED, UNLESS APPROVED OTHERWISE. PROVIDE THICKER GAGES AND DECREASED STUD SPACING AS NECESSARY TO MEET THE DESIGN REQUIREMENTS.
2. DESIGN LOADS:
a. INTERIOR CEILING ASSEMBLIES: 5 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD, PLUS DEAD LOADS.
b. INTERIOR PARTITIONS: 5 POUNDS PER SQUARE FOOT UNIFORM LIVE LATERAL LOAD.
c. EXTERIOR SOFFITS: 25 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD.
3. DEFLECTION REQUIREMENTS: MAXIMUM OF 1/240 THE SPAN, EXCEPT MAXIMUM 1/360 AT TILE.
C. CODE REQUIREMENTS:
1. PROVIDE ASSEMBLIES MEETING THE HOURLY FIRE RATINGS INDICATED AND SPECIFIED. ASSEMBLIES SHALL BEEN TESTED IN ACCORDANCE WITH ASTM E119, AND SHALL BE APPROVED BY THE LOCAL JURISDICTIONAL CODE AUTHORITIES.
2. COORDINATE INSTALLATION OF OTHER MATERIALS WHICH ARE A PART EACH ASSEMBLY.
3. FIRE RATING REQUIREMENTS TAKE PRECEDENCE OVER THE CONSTRUCTION REQUIREMENTS INDICATED. IN THE EVENT OF CONFLICT, NOTIFY THE ARCHITECT, AND DO NOT BEGIN CONSTRUCTION IN THE AREA OF CONFLICT UNTIL THE CONFLICT HAS BEEN RESOLVED.
4. PROVIDE ALL CALCULATIONS, DRAWINGS, PRODUCT DATA, AND OTHER VERIFICATION AS REQUIRED BY THE JURISDICTIONAL CODE AUTHORITY TO OBTAIN APPROVAL OF THE LIGHT GAGE METAL FRAMING INSTALLATION.
D. MATERIALS:
1. LIGHT GAGE METAL FRAMING: ASTM C645; GALVANIZED; PROVIDE "C" SHAPED STUDS, U SHAPED RUNNERS, HAT AND "Z" SHAPED FURRING CHANNELS, AND OTHER SIZES AND SHAPES AS NECESSARY. MINIMUM 25 GAGE, EXCEPT FURNISH THICKER GAGES AS REQUIRED TO MEET DEFLECTION REQUIREMENTS.
2. COLD ROLLED CHANNELS: RUST INHIBITIVE PAINT COATING; SIZES IN ACCORDANCE WITH ASTM C754.
3. SCREWS: SELF-TAPPING; LOW PROFILE HEAD.
4. SECURITY MESH: AMICO (ALABAMA METAL INDUSTRIES CORP) BIRMINGHAM AL (800/366-2642); ASM .50-13F, MINIMUM 13 GAGE, UNLESS APPROVED OTHERWISE.
5. PROPRIETARY CEILING SUSPENSION SYSTEM:
A. MANUFACTURER:
I. AS SPECIFIED: ARMSTRONG (800-207-2321).
II. ACCEPTABLE SUBSTITUTIONS:
III. USG INTERIORS, INC. (CHICAGO, IL; 800-874-4968).
IV. CHICAGO METALLIC (CHICAGO, IL LOS ANGELES, CA; 800-323-7164).
B. SUSPENSION SYSTEM: SIMILAR TO SYSTEM 650, OR 670; ASTM C635 HEAVY DUTY CLASSIFICATION.
I. FURRING RUNNERS: MANUFACTURED FROM 0.020 INCH THICK STEEL 1-3/8 INCH WIDE WITH KNURLED FACE BY 1-1/2 INCHES HIGH; FACTORY PUNCHED CROSS TEE SLOTS, HANGER HOLES, AND NON-DIRECTIONAL BAYONET END TAB COUPLINGS.
II. FURRING TEES: MANUFACTURED FROM 0.020 INCH THICK L-3/8 INCH WIDE WITH KNURLED FACE BY 1-1/2 INCHES HIGH; FACTORY PUNCHED CROSS TEE SLOTS AND HANGER HOLES.
III. FURRING CROSS CHANNEL: 0.020 INCH THICK STEEL; 1-3/8 INCH WIDE WITH KNURLED FACE BY 7/8 INCHES HIGH BY 48 INCHES LONG WITH STRAIGHT LOCKING END TABS.
IV. CROSS TEES: 0.020 INCH THICK STEEL 15/16 INCH WIDE BY 1-1/2 INCHES HIGH; WITH STAKED-ON DIP END TAB COUPLINGS, FACTORY PUNCHED CROSS TEE SLOTS.
V. MOLDINGS: MANUFACTURER'S STANDARD.
6. PARTITION HEAD COMPENSATING CHANNEL (NON-RATED): DESIGN FOR MINIMUM +/- ½" DEFLECTION. PROFILES AS INDICATED; ONE OF THE FOLLOWING:
a. 20 GAGE DEEP LEG TRACK; 2 INCH LEGS.
b. SLIP TRACK SYSTEMS INC. (ANAHEIM, CA; 714-761-1921) "SLP-TRK."
7. OTHER FRAMING MATERIALS: FURNISH IN ACCORDANCE WITH ASTM C 754.
E. PARTITION FRAMING:
1. RUNNERS:
a. SECURE RUNNERS WITH FASTENERS AT MAXIMUM 24 INCHES OC.
b. AT CONCRETE FLOORS, USE POWDER DRIVEN FASTENERS OR DRILLED IN CONCRETE ANCHORS.
c. TOP RUNNER: USE PROPRIETARY COMPENSATING CHANNEL OR DEEP LEG TRACK AT CONTRACTOR'S OPTION, AS NECESSARY TO ACCOMMODATE BUILDING DEFLECTION.
d. ALIGN TO TOLERANCES SPECIFIED.
2. UNLESS INDICATED OTHERWISE, INSTALL STUDS VERTICALLY AT 16 INCHES O.C., AND NOT MORE THAN 2 INCHES FROM ABUTTING CONSTRUCTION, AT EACH SIDE OF OPENINGS, AND AT CORNERS.
3. FIT RUNNERS UNDER AND ABOVE OPENINGS; SECURE INTERMEDIATE STUDS AT SPACING OF WALL STUDS.
4. BRACE PARTITION FRAMING SYSTEM AND MAKE RIGID.
5. INSTALL DOUBLE STUDS CONTINUOUS FROM FLOOR TO CEILING TRACK AT THE JAMB OF EACH DOOR FRAME AND CASED OPENING. STUDS SHALL BE THE SAME GAGE AS THE ADJACENT STUDS, BUT NO LESS THAN 20 GAGE. PROVIDE DIAGONAL STEEL STUD BRACING TO STRUCTURE AT EACH JAMB AT PARTITIONS WHICH DO NOT EXTEND TO STRUCTURE.
6. COORDINATE ERECTION OF STUD SYSTEM WITH REQUIREMENTS OF DOOR AND WINDOW FRAMES, FIRE EXTINGUISHER CABINETS, RECESSED TOILET ACCESSORIES, ACCESS DOORS, AND OTHER CONSTRUCTION WITHIN MOUNTED PARTITION CONSTRUCTION.
7. COORDINATE THE INSTALLATION OF FRAMING WITH THE GYPSUM BOARD INSTALLER TO ENSURE SUPPORT AT ALL BOARD EDGES. PROVIDE FRAMING IMMEDIATELY EITHER SIDE OF EXPANSION JOINTS.
8. STUD SPLICING NOT PERMISSIBLE.
9. AT NON-LOAD BEARING FULL HEIGHT PARTITIONS SUBJECT TO COMPRESSION CAUSED BY OVERHEAD STRUCTURAL DEFLECTION, CUT STUDS 1/2 INCH SHORT FROM FULL HEIGHT,EXCEPT AS OTHERWISE INDICATED. DO NOT RIGIDLY CONNECT STUD TO TOP RUNNER.
10. STUD BRIDGING:
a. AT INTERIOR PARTITIONS GREATER THAN 4 FEET IN LENGTH, AND WITH RIGID FACING MATERIAL ON ONE STUD FLANGE ONLY, PROVIDE 3/4" BRIDGING CHANNELS IN HORIZONTAL ROWS AT A MAXIMUM OF 5'-0" ON CENTER FOR THE FULL HEIGHT OF THE PARTITION.
b. INTERIOR FULL HEIGHT PARTITIONS (STUDS EXTENDING FROM THE FLOOR TO THE STRUCTURE ABOVE) WITH RIGID FACING MATERIAL STOPPING 3'-0" OR MORE BELOW TOP OF STUDS - PROVIDE ONE ROW 3/4" BRIDGING CHANNEL HORIZONTALLY AT TERMINATION OF GYPSUM BOARD MATERIAL, AND ONE ADDITIONAL ROW FOR EACH 5'-0" OF EXPOSED STUDS.
c. INSTALL STUD BRIDGING CHANNELS IN LONG LENGTHS, WIRE TYING AND LAPPING THE JOINTS A MINIMUM OF 12."
11. ATTACH BRIDGING CHANNEL TO EACH STUD AS SHOWN IN MANUFACTURER'S PRINTED INSTRUCTIONS.
12. INSTALL SECURITY MESH AT ALL WALLS OF THE INVENTORY ROOM PER SECTION 092200.
F. CEILING AND SOFFIT FRAMING:
1. COORDINATE LOCATIONS OF HANGERS AND SUPPORTS WITH THE WORK OF OTHER SECTIONS.
2. PROVIDE CEILING AND SOFFIT FRAMING AS INDICATED. WHERE NOT INDICATED PROVIDE,STUD AND RUNNER FRAMING, SUSPENDED FRAMING, OR PROPRIETARY SUSPENDED FRAMING.
3. PROPRIETARY SUSPENDED FRAMING: INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. STUD AND RUNNER FRAMING:
a. SECURE RUNNERS TO STRUCTURE ABOVE WITH FASTENERS AT A MAXIMUM OF 24 INCHES ON CENTER. SIZE FASTENERS AND USE REINFORCEMENTS AS NECESSARY TO SUPPORT THE DEAD LOADS APPLIED.
b. SCREW FASTEN FRAMING AT EACH FLANGE JOINT.
c. SPACE STUDS AT 16 INCHES ON CENTER AT HORIZONTAL LOCATIONS.
d. SELECT MEMBERS TO MEET THE STRUCTURAL REQUIREMENTS SPECIFIED.
5. LIGHT GAGE SUSPENDED FRAMING:
a. INSTALL IN ACCORDANCE WITH ASTM C754, UNLESS INDICATED OR SPECIFIED OTHERWISE.
b. SUSPEND CEILING FROM OVERHEAD STRUCTURAL ELEMENTS ONLY. DO NOT SUPPORT FROM ANY ELECTRICAL, HVAC, PLUMBING, OR SPRINKLER SYSTEM COMPONENTS.
c. SPACE CARRYING CHANNELS 4 FEET ON CENTER WITH SPLICES LAPPED 12 INCHES AND TIED.
d. SUPPORT COLD ROLLED CARRYING CHANNELS WITH HANGER WIRES SPACED AT 3 FEET ON CENTER FOR LATH AND PLASTER CEILINGS AND 4 FEET ON CENTER FOR GYPSUM BOARD CEILINGS. LOOP HANGER WIRE AROUND SUPPORT ELEMENT AND TIGHTLY WRAP AROUND VERTICAL WIRE 3 TIMES; CUT OFF NEATLY.

DIVISION 9 - FINISHES, CONT.

e. SPACE FURRING CHANNELS 16" O.C. WITH SPLICES LAPPED 12", MINIMUM AND TIED; CLIP OR SADDLE TIE TO RUNNER CHANNELS WITH 16-GAGE TIE WIRE.
f. WHERE OVERHEAD OBSTRUCTIONS PREVENT THE REGULAR SPACING OF HANGERS, PROVIDE SECONDARY CARRYING MEMBERS FOR INDIRECT SUPPORT OF THE SUSPENSION SYSTEM, OR REINFORCE THE NEAREST ADJACENT HANGERS AND RELATED FRAMING COMPONENTS AS REQUIRED TO SPAN THE REQUIRED DISTANCE.
6. STABILIZE SUSPENDED CEILING, SOFFIT, AND FASCIA FRAMING AGAINST LATERAL MOVEMENT BY MEANS OF DIAGONAL BRACING. AT LOCATIONS WHERE PARTITIONS EXTEND TO CEILING, ONLY, INSTALL SUPPLEMENTARY BRACING AT MAXIMUM 8'-0" O.C. ALONG LENGTH OF PARTITION, AND ABOVE EACH DOOR HINGE AND STRIKE JAMB.
7. FORM OPENINGS IN CEILINGS AND FRAME OPENINGS FOR RECESSED LIGHT FIXTURES, AIR DIFFUSERS, ACCESS DOORS, HATCHES, ETC.
8. INSTALL SUPPLEMENTARY HANGER WIRES FOR SUPPORT OF CEILING MOUNTED EQUIPMENT.
G. BACKING:
1. PROVIDE STEEL BACKING WHERE INDICATED. AT CONTRACTOR'S OPTION STEEL BACKING PLATES MAY BE SUBSTITUTED FOR WOOD BLOCKING, EXCEPT WOOD BLOCKING SHALL BE USED AT THE FOLLOWING LOCATIONS: HANDRAILS, GUARDRAILS, GRAB BARS, AND SIMILAR SAFETY ITEMS.
2. UNLESS INDICATED OTHERWISE, STEEL BACKING SHALL CONSIST OF MINIMUM 4 INCH WIDE 16 GAGE STEEL PLATE SCREWED RIGIDLY TO THE STUDS.
H. INSTALLATION TOLERANCES:
1. INSTALL MEMBERS TO PROVIDE SURFACE PLANE WITH MAXIMUM VARIATION OF 1/8 INCH IN 10 FEET IN ANY DIRECTION.
2. LOCATE ASSEMBLIES WITHIN 1/4 INCH OF REQUIRED LOCATIONS.

METAL STUD SCHEDULE

INTERIOR				
HEIGHT	STUD	FLANGE	GAGE	SPACING
12'-0"	3 5/8"	1 5/8"	20	24" O.C.
14'-0"	3 5/8"	1 5/8"	20	16" O.C.
16'-0"	3 5/8"	1 5/8"	18	16" O.C.
18'-0"	3 5/8"	1 5/8"	16	12" O.C.
EXTERIOR				
HEIGHT	STUD	FLANGE	GAGE	SPACING
12'-0"	6"	2"	18	16" O.C.
14'-0"	6"	2"	16	12" O.C.
16'-0"	6"	2 1/2"	14	12" O.C.
18'-0"	6"	2 1/2"	12	12" O.C.

092200 INVENTORY ROOM SPECIFICATIONS

A. WALLS AND CEILING
1. WALLS MUST BE DECK-TO-DECK, CEILING TO HARD DECK CEILING, OR 6" ABOVE CEILING AS DESCRIBED IN THE WALL TYPES ON SHEET A531.
2. HARDENING: EXPANDED CARBON STEEL AND FIBER-CEMENT BACKERBOARD MATERIALS MUST BE INSTALLED ON THE INTERIOR SIDE OF THE INVENTORY ROOM WALL STUDS.
a. EXPANDED CARBON STEEL SECURITY MESH: AMICO (ALABAMA METAL INDUSTRIES CORP) BIRMINGHAM AL (800/366-2642); ASM .50-13F, MINIMUM 13 GAGE,UNLESS APPROVED OTHERWISE. INSTALL ON THE INTERIOR SIDE OF THE WALL STUDS.
I. STEEL MUST MEET OR EXCEED ASTM A-569 HSLA STEEL. CONVENTIONAL EXPANDED CARBON STEEL THAT IS NOT MANUFACTURED SPECIFICALLY FOR SECURITY PURPOSES IS NOT ACCEPTABLE FOR THIS USE.
II. CARBON STEEL (MESH) SIZE OPENINGS MAY NOT EXCEED THE FOLLOWING DIMENSIONS: 0.5 INCH X 1.26 INCHES.
III. ANCHOR THE EXPANDED CARBON STEEL (INCLUDING ALL SEAMS) TO EACH STUD USING SECURE CLIPS [AMICO SECURA CLIPS] (FASTENERS WITH AN EXPANDED SURFACE AREA) WITH FLAT HEAD, PHILLIPS, ONE-WAY, STEEL SCREWS SPACED NO MORE THAN 12 INCHES APART VERTICALLY (DRYWALL SCREWS ARE UNACCEPTABLE). STEEL SCREWS MUST PENETRATE THROUGH THE STUDS BY AT LEAST 0.25 INCH, PER MANUFACTURER INSTRUCTIONS.
IV. END JOINTS MUST BE BUTTED AND OCCUR OVER STUDS. IF OVERLAPPING IS NECESSARY, A LONGER SCREW MUST BE USED TO MAINTAIN A 0.25 INCH STUD PENETRATION.
B. FIBER-CEMENT BACKERBOARD
I. INSTALL 0.5 INCH FIBER-CEMENT HARDIBACKER (JAMES HARDIE BUILDING PRODUCTS, INC.) BACKERBOARD ON THE INTERIOR SIDE OF THE WALL STUDS (BUT DIRECTLY OVER THE EXPANDED CARBON STEEL).
II. HARDIBACKER FIBER-CEMENT BACKERBOARD MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. HARDIBACKER INFORMATION CAN BE FOUND AT: HTTP://WWW.JAMESHARDIE.COM/BACKERBOARD/HOMEOWNER/HARDIBACKER500.PHP
III. END JOINTS MUST BE BUTTED AND OCCUR OVER STUDS.
4. AVOID VENTS IN THE INVENTORY ROOMS. IF REQUIRED, VENTS OR LOUVERS MUST BE:
a. NO GREATER THAN 24 SQUARE INCHES AND LOCATED BEHIND (EXTERIOR SIDE OF) THE EXPANDED CARBON STEEL DESCRIBED IN SECTION 1.3.1 (ABOVE).
b. SUPPLY / RETURN DUCTS SHALL NOT EXCEED 24" SQUARE. INSTALL BURGLAR BARS IF OPENING EXCEEDS THE RECOMMENDED SIZES.
B. INVENTORY ROOM DOOR (SEE DOOR SCHEDULE AND BELOW)
1. INVENTORY ROOMS MAY ONLY HAVE ONE (1) ACCESS POINT/DOOR.
2. DUTCH DOORS MUST NOT BE INSTALLED.
3. THE DOOR MUST BE METAL OR OF SOLID CORE WOOD CONSTRUCTION, AND A MINIMUM OF 1.75 INCHES THICK.
a. A METAL DOOR MUST BE OF 16-GAUGE STEEL. E-016;
b. A SOLID CORE WOODEN DOOR REQUIRES A 16-GAUGE STEEL SKIN.
c. THE DOOR MAY NOT HAVE VENTS, LOUVERS, OR CONTAIN ANY OPENINGS OTHER THAN THOSE NECESSARY TO AFFIX THE DOOR HARDWARE/HANDLE.
4. THE DOOR FRAME MUST BE STEEL AND REINFORCED TO ENSURE DURABILITY.
a. THE STEEL FRAME MUST BE ANCHORED TO THE WALL IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS OR BEST PRACTICES;
b. SUPPORTING WALL STRUCTURES MUST CONSIST OF DOUBLE STUDDING OR FRAMING OF EQUIVALENT STRENGTH; AND
c. THERE MUST NOT BE MORE THAN 0.125 INCH CLEARANCE BETWEEN THE DOOR AND THE FRAME.
5. THE DOOR MUST BE EQUIPPED WITH A PROPERLY FUNCTIONING, COMMERCIAL GRADE, AUTOMATIC DOOR CLOSER DEVICE.
6. IF THE DOOR HINGES ARE ACCESSIBLE FROM THE EXTERIOR SIDE, THE HINGE MUST BE A HEAVY DUTY CONTINUOUS (PIANO OR ROTON) HINGE.
7. THE DOOR MUST BE EQUIPPED WITH A LATCH GUARD COVERING THE EXTERIOR LATCH EXPOSURE.
C. LOCKS/ KEYS
1. INVENTORY ROOM DOORS MUST BE EQUIPPED WITH HIGH QUALITY, COMMERCIAL GRADE LOCKS THAT:
a. USE MANUFACTURER-RESTRICTED KEYWAYS (INCLUDING INSTAKEY) AND
b. CANNOT BE SET IN AN UNLOCKED STATE (I.E., STOREROOM FUNCTION).
2. THE SECURITECH 4850 MP 5 POLICE LOCK (5-POINT SECURITY LOCK) LOCKING SYSTEM MUST BE INSTALLED ON THE INTERIOR SIDE OF THE INVENTORY ROOM TO SECURE THE INVENTORY ROOM DOOR AFTER HOURS. SECURITECH 4850 INFORMATION CAN BE FOUND AT:
a. HTTP://WWW.SECURITECH.COM/001-MP-POLICE-LOCK.HTML AND
b. HTTP://WWW.SECURITECH.COM/WEB%20CATALOG/4%20MULTI-POINT%20LOCKING/D18.PDF

092813 GYPSUM SHEATHING

A. MATERIALS:
1. GYPSUM SHEATHING: ONE OF THE FOLLOWING:
A. G-P GYPSUM CORPORATION "DENS-GLASS GOLD"; GLASS MAT FACED; ASTM C1177; 1/2 INCH THICK
B. USG FIBEROCK BRAND SHEATHING WITH AQUA-TOUGH ™; ½ INCH THICK.
2. SCREWS: GALVANIZED; SELF-DRILLING; SELF-DRILLING, BUGLE HEAD SCREWS; MINIMUM 1-1/4 INCH LONG.
B. INSTALLATION:
1. INSTALL SQUARE EDGE BOARDS PARALLEL OR PERPENDICULAR TO FRAMING.INSTALL BOARDS PARALLEL TO FRAMING AT FIRE RATED WALLS. APPLY SHEATHING WITH JOINTS STAGGERED. ALL EDGES SHALL BE FIRMLY SUPPORTED.
2. INSTALL SHEATHING WITH COATING TOWARDS EXTERIOR.
3. SCREW TO FRAMING. SPACE FASTENERS 8 INCHES O.C. IN FIELD AND 4 INCHES O.C. AT ENDS ALONG EACH FRAMING MEMBER.
4. 4. DO NOT BRIDGE EXPANSION OR SEISMIC JOINTS.

DIVISION 9 - FINISHES, CONT.

092900 GYPSUM BOARD

A. QUALITY CONTROL:
1. PROVIDE ASSEMBLIES MEETING THE HOURLY FIRE RATINGS INDICATED. ASSEMBLIES SHALL BE APPROVED BY THE LOCAL JURISDICTIONAL CODE AUTHORITIES.
B. MATERIALS:
1. SYNTHETIC GYPSUM BOARD:
a. MANUFACTURERS: NATIONAL GYPSUM CO. "GOLD BOND BRAND"; USG CORPORATION, "SHEETROCK BRAND."; TEMPLE-INLAND GYPSUM, "SYNTHETIC GYPSUM."
b. 5/8 INCH THICK UNLESS NOTED OTHERWISE; PROVIDE TYPE X IN FIRE RATED PARTITIONS.
c. STANDARD BOARD: ASTM C36.
2. ACCESSORIES:
a. TRIM: CONCEALED FLANGE SCREW-ON TYPE; METAL; GA 216.
b. JOINT COMPOUND, TAPE, AND FINISHING COMPOUND: ASTM C475 AND GA 216.
c. SCREWS: ASTM C1002.
d. PROPRIETARY SKIM COAT: USG "TUFF-HIDE SHEETROCK BRAND PRIMER-SURFACE."
C. INSTALLATION:
1. INSTALLATION STANDARD: UNLESS SPECIFIED OTHERWISE, PERFORM WORK IN ACCORDANCE. WITH GYPSUM ASSOCIATION 216, "RECOMMENDED SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF GYPSUM WALLBOARD."
2. INSTALL WATER RESISTANT BOARD RESTROOM WALLS AS A SUBSTRATE FOR SURFACES
3. SCREW FASTEN BOARD TO FRAMING, UNLESS APPROVED OTHERWISE.
4. TRIM:
a. USE LONGEST PRACTICAL LENGTHS, WITH NO PIECE LESS THAN 2 FEET LONG FOR CONTINUOUS RUNS GREATER THAN 8 FEET. SECURELY FASTEN AND ALIGN TRIM ENDS AT JOINTS.
b. PLACE CONCEALED FLANGE CORNER BEADS AT ALL EXTERNAL CORNERS. AT ANGLES OTHER THAN 90 DEGREES, BEND THE FLANGE TO CONFORM TO THE ANGLE.
c. PLACE CONCEALED FLANGE TYPE L TRIM WHERE GYPSUM BOARD ABUTS DISSIMILAR MATERIALS.
d. USE J TRIM AT EXPOSED GYPSUM BOARD EDGES (INCLUDING LIGHT COVES) WHERE SEALANT JOINT IS INDICATED.
5. CONTROL JOINTS:
a. POSITION CONTROL JOINTS TO INTERSECT LIGHT FIXTURES, AIR DIFFUSERS, DOOR OPENINGS, AND OTHER AREAS OF STRESS CONCENTRATION.
b. POSITION CONTROL JOINTS AT LOCATIONS WHERE EXPANSION OR CONTROL JOINTS OCCUR IN THE BUILDING STRUCTURE.
c. LOCATE CONTROL JOINTS TO FORM RECTANGULAR OR SQUARE SECTIONS, IN "L," "U," "T," OR OTHER IRREGULARLY SHAPED AREAS.
6. FINISHING:
a. PROVIDE FINISHING IN ACCORDANCE WITH GA 214.
b. WHERE NECESSARY TO SAND, DO SO WITHOUT DAMAGING THE FACE OF THE GYPSUM BOARD.
c. LEVELS OF FINISH: PROVIDE AS NOTED IN DRAWINGS
c.a. LEVEL 4: SALES AREA. PROVIDE UNLESS INDICATED OR SPECIFIED OTHERWISE.
c.b. LEVEL 3: PUBLIC TOILET ROOMS & HALLWAYS OR AS NOTED ON DRAWINGS.
c.c. LEVEL 2: BACK OF HOUSE, STORAGE

DIVISION 9 - FINISHES, CONT.

16.a. CHEMICAL-RESISTANT EPOXY GROUT: ANSI A118.3, COLOR AS INDICATED.
16.b. PROVIDE PRODUCT CAPABLE OF RESISTING CONTINUOUS AND INTERMITTENT EXPOSURE TO TEMPERATURES OF UP TO 140 DEG F (60 DEG C) AND 212 DEG F (100 DEG C), RESPECTIVELY, AS CERTIFIED BY MORTAR MANUFACTURER FOR INTENDED USE.
17. ELASTOMERIC SEALANTS: PROVIDE MANUFACTURER'S STANDARD CHEMICALLY CURING, ELASTOMERIC SEALANTS OF BASE POLYMER AND CHARACTERISTICS INDICATED THAT COMPLY WITH APPLICABLE REQUIREMENTS OF DIVISION 7 SECTION "JOINT SEALANTS."
17.a. ONE-PART, MILDEW-RESISTANT SILICONE SEALANT: ASTM C 920; TYPE S; GRADE NS; CLASS 25; USES NT, G, A, AND, AS APPLICABLE TO NONPOROUS JOINT SUBSTRATES INDICATED, O; FORMULATED WITH FUNGICIDE.
18. CEMENTITIOUS BACKER UNITS: PROVIDE PRODUCTS COMPLYING WITH ANSI A118.9, OF THICKNESS AND WIDTH INDICATED, AND IN MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END BUTT JOINTS.
19. MISCELLANEOUS MATERIALS: AS FOLLOWS:
a. TROWELABLE UNDERLAYMENTS AND PATCHING COMPOUNDS: LATEX-MODIFIED, PORTLAND-CEMENT-BASED FORMULATION PROVIDED OR APPROVED BY MANUFACTURER OF TILE-SETTING MATERIALS FOR INSTALLATIONS INDICATED.
b. METAL EDGE STRIPS: WHITE-ZINC-ALLOY TERRAZZO STRIPS, 1/8 INCH (3.2 MM) WIDE AT TOP EDGE WITH INTEGRAL PROVISION FOR ANCHORAGE TO MORTAR BED OR SUBSTRATE, UNLESS OTHERWISE INDICATED.
20. WATERPROOF MEMBRANE INSTALLATION: (COORDINATE WITH LANDLORD REQUIREMENTS)
a. INSTALL WATERPROOF MEMBRANES IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

C. PREPARATION: CLEAN SUBSTRATE SURFACES FREE OF GREASE, DIRT, DUST, ORGANIC IMPURITIES, CURING AGENTS, AND OTHER MATERIALS THAT WOULD IMPAIR BOND. CLEAN FLOORS WITH "BLAST- TRACK" UNIT IF NECESSARY.
1. SLAB LEVELING: (COORDINATE WITH LANDLORD REQUIREMENTS)
2. PRIOR TO INSTALLATION OF THINSET FLOOR TILE, WHERE LOCAL IRREGULARITIES IN THE SUBSTRATE SURFACE WOULD PREVENT LEVEL INSTALLATION OF THE TILE, THE SUBSTRATE SHALL BE BROUGHT TO PLANE SURFACE WITH VARIATIONS NOT TO EXCEED 1/8 INCH IN 4 FEET (CUMULATIVE) AND 1/4 INCH IN 10 FEET (NON-CUMULATIVE). SMOOTH ALL ABRUPT CHANGES IN PLANE.
3. USE THINSET MORTAR OR OTHER FILLER FOR SLAB LEVELING. OTHER FILLERS ARE SUBJECT TO ENDORSEMENT BY THE SETTING MORTAR MANUFACTURER.
4. SCREED OR FLOAT TO APPROPRIATE THICKNESS AND SPECIFIED SURFACE TOLERANCE. ALLOW TO SET PRIOR TO PROCEEDING WITH INSTALLATION. DO NOT EXCEED THE MAXIMUM THICKNESSES FOR THIN BED MORTAR AS RECOMMENDED BY THE MANUFACTURER.

D. EXECUTION
1. PROVIDE CONCRETE SUBSTRATES FOR TILE FLOORS INSTALLED WITH DRY-SET OR LATEX- PORTLAND CEMENT MORTARS THAT COMPLY WITH FLATNESS TOLERANCES SPECIFIED IN REFERENCED ANSI A108 SERIES OF TILE INSTALLATION STANDARDS FOR INSTALLATIONS INDICATED.
a. USE TROWELABLE LEVELING AND PATCHING COMPOUNDS PER TILE-SETTING MATERIAL MANUFACTURER'S WRITTEN INSTRUCTIONS TO FILL CRACKS, HOLES, AND DEPRESSIONS.
b. REMOVE PROTRUSIONS, BUMPS, AND RIDGES BY SANDING OR GRINDING.
2. BLENDING: FOR TILE EXHIBITING COLOR VARIATIONS WITHIN THE RANGES SELECTED DURING SAMPLE SUBMITTALS, VERIFY THAT TILE HAS BEEN BLENDED IN THE FACTORY AND PACKAGED SO TILE UNITS TAKEN FROM ONE PACKAGE SHOW THE SAME RANGE IN COLORS AS THOSE TAKEN FROM OTHER PACKAGES AND MATCH APPROVED SAMPLES.
3. ANSI TILE INSTALLATION STANDARDS: COMPLY WITH PARTS OF ANSI A108 SERIES OF TILE INSTALLATION STANDARDS IN "SPECIFICATIONS FOR INSTALLATION OF CERAMIC TILE" THAT APPLY TO TYPES OF SETTING AND GROUTING MATERIALS AND TO METHODS INDICATED OR REQUIRED.
4. TCA INSTALLATION GUIDELINES: TCA'S "HANDBOOK FOR CERAMIC TILE INSTALLATION." COMPLY WITH TCA INSTALLATION METHODS INDICATED OR REQUIRED.
5. EXTEND TILE WORK INTO RECESSES AND UNDER OR BEHIND EQUIPMENT AND FIXTURES TO FORM A COMPLETE COVERING WITHOUT INTERRUPTIONS, UNLESS OTHERWISE INDICATED. TERMINATE WORK NEATLY AT OBSTRUCTIONS, EDGES, AND CORNERS WITHOUT DISRUPTING PATTERN OR JOINT ALIGNMENTS.
6. ACCURATELY FORM INTERSECTIONS AND RETURNS. PERFORM CUTTING AND DRILLING OF TILE WITHOUT MARRING VISIBLE SURFACES. CAREFULLY GRIND CUT EDGES OF TILE ABUTTING TRIM, FINISH, OR BUILT-IN ITEMS FOR STRAIGHT ALIGNED JOINTS. FIT TILE CLOSELY TO ELECTRICAL OUTLETS, PIPING, FIXTURES, AND OTHER PENETRATIONS SO PLATES, COLLARS, OR COVERS OVERLAP TILE.
7. JOINTING PATTERN: LAY TILE IN GRID PATTERN, UNLESS OTHERWISE INDICATED. ALIGN JOINTS WHERE ADJOINING TILES ON FLOOR, BASE, WALLS, AND TRIM ARE THE SAME SIZE. LAY OUT TILE WORK AND CENTER TILE FIELDS IN BOTH DIRECTIONS IN EACH SPACE OR ON EACH WALL AREA, ADJUST TO MINIMIZE TILE CUTTING. PROVIDE UNIFORM JOINT WIDTHS, UNLESS OTHERWISE INDICATED.
8. EXPANSION JOINTS: LOCATE EXPANSION JOINTS AND OTHER SEALANT-FILLED JOINTS, INCLUDING CONTROL, CONTRACTION, AND ISOLATION JOINTS, WHERE INDICATED DURING INSTALLATION OF SETTING MATERIALS, MORTAR BEDS, AND TILE. DO NOT SAW-CUT JOINTS AFTER INSTALLING TILES.
9. LOCATE JOINTS IN TILE SURFACES DIRECTLY ABOVE JOINTS IN CONCRETE SUBSTRATES.
10. PREPARE JOINTS AND APPLY SEALANTS TO COMPLY WITH REQUIREMENTS OF DIVISION 7 SECTION "JOINT SEALANTS."
11. GROUT TILE TO COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING TILE INSTALLATION STANDARDS:
12. FOR CERAMIC TILE GROUTS (SAND-PORTLAND CEMENT, DRY-SET, COMMERCIAL PORTLAND CEMENT, AND LATEX-PORTLAND CEMENT GROUTS), COMPLY WITH ANSI A108.10.
13. FLOOR TILE INSTALLATION: INSTALL TILE TO COMPLY WITH REQUIREMENTS INDICATED, INCLUDING THOSE REFERENCING TCA INSTALLATION METHODS AND ANSI A108 SERIES OF TILE INSTALLATION STANDARDS.
14. JOINT WIDTHS: INSTALL TILE ON FLOORS WITH THE FOLLOWING JOINT WIDTHS:
15. PAVER TILE: 1/4 INCH (6.35 MM).
16. BACK BUTTERING: FOR INSTALLATIONS INDICATED, OBTAIN 100 PERCENT MORTAR COVERAGE BY COMPLYING WITH APPLICABLE SPECIAL REQUIREMENTS FOR BACK BUTTERING OF TILE IN REFERENCED ANSI A108 SERIES OF TILE INSTALLATION STANDARDS.
17. METAL EDGE STRIPS: INSTALL AT LOCATIONS INDICATED OR WHERE EXPOSED EDGE OF TILE FLOORING MEETS CARPET, WOOD, OR OTHER FLOORING THAT FINISHES FLUSH WITH TOP OF TILE.
18. WALL TILE INSTALLATION: INSTALL TYPES OF TILE DESIGNATED FOR WALL INSTALLATIONS TO COMPLY WITH MANUFACTURERS' REQUIREMENTS, INCLUDING THOSE REFERENCING TCA INSTALLATION METHODS AND ANSI SETTING-BED STANDARDS.
19. JOINT WIDTHS: INSTALL TILE ON WALLS WITH THE FOLLOWING JOINT WIDTHS:
20. WALL TILE: 1/16 INCH (1.6 MM).
21. BACK BUTTERING: FOR INSTALLATIONS INDICATED, OBTAIN 100 PERCENT MORTAR COVERAGE BY COMPLYING WITH APPLICABLE SPECIAL REQUIREMENTS FOR BACK BUTTERING OF TILE IN REFERENCED ANSI A108 SERIES OF TILE INSTALLATION STANDARDS.
22. CLEANING: ON COMPLETION OF PLACEMENT AND GROUTING, CLEAN ALL CERAMIC TILE SURFACES SO THEY ARE FREE OF FOREIGN MATTER. USE CLEANING MATERIALS AND METHODS THAT COMPLY WITH TILE AND GROUT MANUFACTURERS' WRITTEN INSTRUCTIONS.

096403 WOOD FLOORING

A. GENERAL
1. RELATED DOCUMENTS: DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.
2. SUMMARY
a. ENGINEERED WOOD FLOOR.
3. QUALITY ASSURANCE
a. INSTALLER QUALIFICATIONS: INSTALLATION SHALL BE PERFORMED BY A FIRM EXPERIENCED IN THE APPLICATION OF SYSTEMS SIMILAR IN COMPLEXITY TO THOSE REQUIRED FOR THIS PROJECT. ADDITIONALLY, INSTALLERS SHALL BE IN POSSESSION OF THE MANUFACTURER'S INSTALLATION MANUAL AND ADHERE TO THE INSTRUCTIONS.
b. HARDWOOD FLOORING: COMPLY WITH NOFMA GRADING RULES FOR SPECIES, GRADE, AND CUT. CERTIFICATION: PROVIDE FLOORING THAT CARRIES NOFMA GRADE STAMP ON EACH BUNDLE OR PIECE.
c. MAPLE FLOORING: COMPLY WITH MFMA GRADING RULES FOR SPECIES, GRADE, AND CUT. CERTIFICATION: PROVIDE FLOORING THAT CARRIES MFMA MARK ON EACH BUNDLE OR PIECE.
d. SOUTHERN PINE FLOORING: COMPLY WITH SPIB GRADING RULES FOR SPECIES, GRADE, AND CUT.
e. SOFTWOOD FLOORING: COMPLY WITH WCLIB NO. 17 GRADING RULES FOR SPECIES, GRADE, AND CUT.
4. PROJECT CONDITIONS

DIVISION 9 - FINISHES, CONT.

a. CONDITIONING: MAINTAIN RELATIVE HUMIDITY PLANNED FOR BUILDING OCCUPANTS AND AN AMBIENT TEMPERATURE BETWEEN 65 AND 75 DEG F (18 AND 24 DEG C) IN SPACES TO RECEIVE WOOD FLOORING FOR AT LEAST SEVEN DAYS BEFORE INSTALLATION, DURING INSTALLATION, AND FOR AT LEAST SEVEN DAYS AFTER INSTALLATION. AFTER POST-INSTALLATION PERIOD, MAINTAIN RELATIVE HUMIDITY AND AMBIENT TEMPERATURE PLANNED FOR BUILDING OCCUPANTS.
b. MOVE WOOD FLOORING INTO SPACES WHERE IT WILL BE INSTALLED, AT LEAST SEVEN DAYS BEFORE INSTALLATION.
c. FOR UNFINISHED PRODUCTS, OPEN SEALED PACKAGES TO ALLOW WOOD FLOORING TO ACCLIMATIZE.
d. DO NOT INSTALL FLOORING UNTIL IT ADJUSTS TO THE RELATIVE HUMIDITY OF AND IS AT THE SAME TEMPERATURE AS THE SPACE WHERE IT IS TO BE INSTALLED.
e. INSTALL FACTORY-FINISHED WOOD FLOORING AFTER OTHER FINISHING OPERATIONS, INCLUDING PAINTING, HAVE BEEN COMPLETED.

B. PRODUCTS
1. ENGINEERED-WOOD STRIP OR PLANK FLOORING PRODUCTS: AS INDICATED ON THE FINISH MATERIAL SCHEDULE. NO SUBSTITUTIONS. ENGINEERED-WOOD STRIP OR PLANK FLOORING: ANSI/HPVA LF.
a. SPECIES: AS INDICATED ON DRAWINGS.
b. GRADE: MANUFACTURER'S STANDARD.
c. THICKNESS: AS NOTED IN DRAWINGS
d. CONSTRUCTION: AS NOTED IN DRAWINGS
e. WIDTH: AS NOTED IN DRAWINGS.
f. LENGTH: AS NOTED IN DRAWINGS.
g. EDGES: AS NOTED IN DRAWINGS.
h. FINISH: AS NOTED IN DRAWINGS.
2. ACCESSORY MATERIALS
a. WOOD FLOORING ADHESIVE: MASTIC RECOMMENDED BY FLOORING AND ADHESIVE MANUFACTURERS FOR APPLICATION INDICATED. (NOT USED IN FLOATING FLOOR SYSTEM)
b. FASTENERS: AS RECOMMENDED BY MANUFACTURER, BUT NOT LESS THAN THAT RECOMMENDED IN NOFMA'S "INSTALLING HARDWOOD FLOORING." (NOT USED IN FLOATING FLOOR SYSTEM)
c. VAPOR RETARDER: ASTM D 4397, POLYETHYLENE SHEET NOT LESS THAN [6.0 MILS (0.15 MM)] THICK.
d. VERSASHIELD FLOORING UNDERLAYMENT WITH VERSASHIELD SEAM TAPE INSTALLED PER MANUFACTURER INSTRUCTIONS.
e. CORK EXPANSION STRIP: COMPOSITION CORK STRIP COMPLYING WITH FS HH-C-576, TYPE I-B, CLASS 2.
f. WOOD FEATURE STRIPS: 2-INCH- (51-MM-) WIDE, SQUARE-EDGED WALNUT STRIPS FURNISHED IN LENGTHS AS LONG AS PRACTICAL AND IN THICKNESS TO MATCH WOOD FLOORING.
g. METAL FEATURE STRIPS: 1/8-BY-1/8-INCH (3-BY-3-MM) SOLID BRASS STRIP, DESIGNED FOR INLAYING INTO ROUTED REVEAL IN WOOD FLOORING SURFACE.
h. WOOD TRIM: IN SAME SPECIES AND GRADE AS WOOD FLOORING, UNLESS OTHERWISE INDICATED.
i. WOOD BASE: 3/4 INCH (16 MM) THICK BY 2 INCHES (100 MM) HIGH.
j. BASE SHOE MOLDING: 1/2 BY 3/4 INCH (13 BY 19 MM).
k. THRESHOLD: TAPERED ON EACH SIDE AND ROUTED AT BOTTOM OF ONE SIDE TO ACCOMMODATE WOOD FLOORING.
l. REDUCER STRIP: AS NOTED IN DRAWINGS.

C. PREPARATION:
1. CONCRETE SLABS: GRIND HIGH SPOTS AND FILL LOW SPOTS TO PRODUCE A MAXIMUM 1/8-INCH (3-MM) DEVIATION IN ANY DIRECTION WHEN CHECKED WITH A 10-FOOT (3-M) STRAIGHT EDGE.
2. USE TROWELABLE LEVELING AND PATCHING COMPOUNDS, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, TO FILL CRACKS, HOLES, AND DEPRESSIONS IN SUBSTRATES.
3. REMOVE COATINGS, INCLUDING CURING COMPOUNDS, AND OTHER SUBSTANCES ON SUBSTRATES THAT ARE INCOMPATIBLE WITH INSTALLATION ADHESIVES AND THAT CONTAIN SOAP, WAX, OIL, OR SILICONE, USING MECHANICAL METHODS RECOMMENDED BY MANUFACTURER. DO NOT USE SOLVENTS.
4. BROOM OR VACUUM CLEAN SUBSTRATES TO BE COVERED IMMEDIATELY BEFORE PRODUCT INSTALLATION. AFTER CLEANING, EXAMINE SUBSTRATES FOR MOISTURE, ALKALINE SALTS, CARBONATION, OR DUST. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

D. EXECUTION
1. INSTALLATION
A. COMPLY WITH FLOORING MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, BUT NOT LESS THAN RECOMMENDATIONS IN NOFMA'S "INSTALLING HARDWOOD FLOORING."
B. CONCRETE SUBSTRATES: VERIFY THAT SLABS ARE DRY ACCORDING TO TEST METHODS RECOMMENDED BY FLOORING MANUFACTURER OR, IF NONE, BY TEST METHODS IN NOFMA'S "INSTALLING HARDWOOD FLOORING."
C. WHERE WOOD FLOORING IS ADHESIVELY ATTACHED TO CONCRETE SLABS, VERIFY THAT SLABS ARE FREE OF CURING COMPOUNDS, SEALERS, HARDENERS, AND OTHER MATERIALS THAT MAY INTERFERE WITH ADHESIVE BOND.
D. PROVIDE EXPANSION SPACE AT WALLS AND OTHER OBSTRUCTIONS AND TERMINATIONS OF FLOORING OF NOT LESS THAN DIRECTED BY MANUFACTURER.
E. ENGINEERED-WOOD FLOORING: SET IN ADHESIVE PER MANUFACTURER'S INSTRUCTIONS.
F. WOOD TRIM: NAIL BASEBOARD TO WALL AND NAIL SHOE MOLDING OR OTHER TRIM TO BASEBOARD; DO NOT NAIL TO FLOORING.
G. PROVIDE EXPANSION SPACE AT WALLS AND OTHER OBSTRUCTIONS AND TERMINATIONS OF FLOORING
E. CLEANING AND PROTECTION
1. COVER WOOD FLOORING BEFORE AND AFTER FINISHING DURING REMAINDER OF CONSTRUCTION PERIOD. USE HEAVY KRAFT-PAPER OR OTHER SUITABLE COVERING. DO NOT USE PLASTIC SHEET OR FILM THAT COULD CAUSE CONDENSATION.
2. CLEAN AND BUFF PER MANUFACTURE'S RECOMMENDATION IMMEDIATELY PRIOR TO BUILDING OCCUPANCY.

095300 ACOUSTICAL PANEL CEILINGS

A. REFERENCES:
1. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):
a. C635 - METAL SUSPENSION SYSTEMS FOR ACOUSTIC TILE AND LAY-IN PANEL CEILINGS.
b. C636 -RECOMMENDED PRACTICE FOR THE INSTALLATION OF METAL CEILING SUSPENSION SYSTEMS FOR ACOUSTIC TILE AND LAY-IN PANELS.

B. QUALITY ASSURANCE:
1. CODES: CONFORM TO THE REQUIREMENTS OF THE AHJ, SEISMIC ZONE AS INDICATED ON THE DRAWINGS, CISCA, AND THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.
PRODUCTS:
1. ACOUSTICAL PANELS: AS INDICATED ON THE DRAWINGS.
2. SUSPENSION SYSTEM: EXPOSED T SYSTEM: ASTM C635, HEAVY DUTY CLASSIFICATION; DIRECT HUNG; EXPOSED "T" DESIGN; FACTORY BAKED ON FINISH TO MATCH ACOUSTICAL PANELS. FURNISH STABILIZER BARS, SPLICES, EDGE AND WALL MOLDINGS, AND OTHER ITEMS AS NECESSARY TO COMPLETE SUSPENDED CEILING GRID SYSTEM.

D. INSTALLATION:
1. INSTALL AFTER MAJOR ABOVE-CEILING WORK IS COMPLETE.
2. INSTALL SYSTEM IN ACCORDANCE WITH ASTM C636, IBC 1621.2.5 AND CISCA, THE MANUFACTURER'S INSTRUCTIONS, AND AS SUPPLEMENTED IN THIS SECTION.
3. INSTALL GRID TO PRODUCE FINISHED CEILING TRUE TO LINES AND LEVELS INDICATED, WITHIN THE SPECIFIED TOLERANCES.
4. INSTALL SUSPENSION SYSTEMS IN A MANNER TO SUPPORT ALL SUPERIMPOSED LOADS, WITH MAXIMUM PERMISSIBLE DEFLECTION OF 1/270 OF SPAN. AT LOCATIONS WHERE PARTITIONS EXTEND TO CEILING, ONLY, INSTALL SUPPLEMENTARY DIAGONAL BRACING TO STRUCTURE AT MAXIMUM 8'-0" O.C. ALONG LENGTH OF PARTITION, AND ABOVE EACH DOOR HINGE AND STRIKE JAMB
5. HANG SYSTEM INDEPENDENT OF WALLS, COLUMNS, DUCTS, PIPES AND CONDUIT. WHERE DUCTS OR OTHER EQUIPMENT PREVENT THE REGULAR SPACING OF HANGERS, PROVIDE SECONDARY CARRYING MEMBERS FOR INDIRECT SUPPORT OF THE SUSPENSION SYSTEM, OR REINFORCE THE NEAREST ADJACENT HANGERS AND RELATED CARRYING CHANNELS AS REQUIRED TO SPAN THE REQUIRED DISTANCE.
6. CENTER SYSTEM ON ROOM AXIS ACCORDING TO REFLECTED CEILING PLANS.
7. ANCHORAGE:
a. PROVIDE ALL ANCHORS REQUIRED FOR THE INSTALLATION OF THE CEILING SYSTEM UNLESS OTHERWISE NOTED.
b. DO NOT FASTEN TO THE UPPER FLUTES OF METAL DECKING. DO NOT USE FASTENERS IN STEEL DECK WHICH PENETRATE MORE THAN 1 INCH.
c. VERIFY LOCATION OF ALL CONDUIT IN POURED CONCRETE CONSTRUCTION BEFORE MAKING ATTACHMENTS.
8. INSTALL EDGE MOLDING AT INTERSECTION OF CEILING AND VERTICAL SURFACES,USING LONGEST PRACTICAL LENGTHS. MITER CORNERS. PROVIDE EDGE MOLDINGS AT JUNCTIONS WITH OTHER INTERRUPTIONS. FABRICATE EDGE MOLDINGS TO FIT THE SURFACES ENCOUNTERED.

DIVISION 9 - FINISHES, CONT.

9. FORM EXPANSION JOINTS AS DETAILED. MAINTAIN VISUAL CLOSURE.
10. FIT ACOUSTIC LAY-IN PANELS IN PLACE, FREE FROM DAMAGED EDGES OR OTHER DEFECTS DETRIMENTAL TO APPEARANCE AND FUNCTION. FIT BORDER UNITS NEATLY AGAINST ABUTTING SURFACES. SCRIBE AND MILL RECESSED REGULAR EDGE INTO PARTIAL BORDER UNITS SUPPORTED AT EDGE BY WALL MOLDING.
11. ADJUST SAGS OR TWISTS WHICH DEVELOP IN THE CEILING SYSTEM AND REPLACE PARTS WHICH ARE DAMAGED OR DEFECTIVE.
12. INSTALL HOLD-DOWN CLIPS TO RETAIN PANELS TIGHT TO GRID SYSTEM WITHIN 20 FT OF AN EXTERIOR DOOR.
13. TOLERANCES:
14. VARIATION FROM FLAT AND LEVEL SURFACE: 1/8 INCH IN 12 FT.
15. VARIATION FROM PLUMB OF GRID MEMBERS CAUSED BY ECCENTRIC LOADS: TWO DEGREES MAXIMUM.

E. PERFORMANCE
1. SEISMIC PERFORMANCE: ACOUSTICAL CEILING SHALL WITHSTAND THE EFFECTS OF EARTHQUAKE MOTIONS DETERMINED ACCORDING TO ASCE/SEI 7.
2. SURFACE-BURNING CHARACTERISTICS: COMPLY WITH ASTM E 84; TESTING BY A QUALIFIED TESTING AGENCY. IDENTIFY PRODUCTS WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AGENCY.
3. FLAME-SPREAD INDEX: COMPLY WITH ASTM E 1264 FOR CLASS A MATERIALS.
4. SMOKE-DEVELOPED INDEX: [50] [450] OR LESS.
5. FIRE-RESISTANCE RATINGS: COMPLY WITH ASTM E 119; TESTING BY A QUALIFIED TESTING AGENCY. IDENTIFY PRODUCTS WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AGENCY.
6. SEISMIC STRUTS: MANUFACTURER'S STANDARD COMPRESSION STRUTS DESIGNED TO ACCOMMODATE LATERAL FORCES.
7. SEISMIC CLIPS: MANUFACTURER'S STANDARD SEISMIC CLIPS DESIGNED AND SPACED TO SECURE ACOUSTICAL TILES IN-PLACE.

096500 RESILIENT FLOORING

A. SUMMARY:
1. RESILIENT SHEET FLOORING.
2. RESILIENT BASE.

B. SUBMITTALS:
1. SUBMIT PRODUCT LITERATURE FOR EACH PRODUCT PROPOSED, INCLUDING BASE, RESILIENT FLOORING, TRANSITION STRIPS, AND ADHESIVES.
2. SUBMITTALS: SUBMIT SAMPLES OF EACH TYPE OF RESILIENT FLOORING, AND EACH TYPE OF RUBBER BASE FOR COLOR SELECTION BY THE INTERIOR DESIGNER.

C. MATERIALS:
1. RESILIENT SHEET FLOORING: AS INDICATED ON THE DRAWINGS
2. RUBBER BASE:
a. RESILIENT BASE: ASTM F1861, TYPE TPR THERMOPLASTIC RUBBER; 1/8 INCH THICK; ROLL STOCK; COVED AND STRAIGHT BASE AS SPECIFIED; 4 INCH HEIGHT, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
3. ACCESSORIES:
a. SUBFLOOR FILLER: PORTLAND CEMENT BASED LATEX FILLER, MIXED WITH WATER TO PRODUCE A SELF LEVELING UNDERLAYMENT, OR CEMENTITIOUS PASTE, AS APPROPRIATE TO PROJECT REQUIREMENTS.
b. ADHESIVES: TYPES RECOMMENDED BY RESILIENT FLOORING AND BASE MANUFACTURERS FOR SPECIFIC APPLICATIONS.
c. TRANSITION STRIPS: VINYL; PRODUCTS AS INDICATED; COLOR AS SELECTED BY THE ARCHITECT FROM MANUFACTURER'S STANDARD.
d. ALL OTHER MATERIALS NOT SPECIFICALLY DESCRIBED, BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION OF RESILIENT FLOORING, SHALL BE ONLY AS RECOMMENDED BY THE MANUFACTURER OF THE MATERIAL TO WHICH IT IS APPLIED AND SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.

D. GENERAL RESILIENT FLOORING INSTALLATION REQUIREMENTS:
1. INSTALL SUBFLOOR FILLER TO FILL LOW SPOTS, CRACKS, CONSTRUCTION JOINTS, HOLES AND OTHER DEFECTS, AND AS REQUIRED TO ADJUST LEVEL TO MEET ADJACENT FINISHES. FEATHER TO MAXIMUM SLOPE OF 1/8 INCH IN 3 FEET; FLOAT TO SMOOTH, FLAT, HARD SURFACE. PROHIBIT TRAFFIC OVER FILLER.
2. INSTALL ALL RESILIENT FLOORING WHERE SCHEDULED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. UNLESS INDICATED OTHERWISE, INSTALL RESILIENT FLOORING WITH JOINTS AND SEAMS AS INDICATED ON THE DRAWINGS.
4. TERMINATE RESILIENT FLOORING AT CENTERLINE OF DOOR AT DOOR OPENINGS WHERE ADJACENT FLOOR FINISH IS DISSIMILAR, AND WHERE NO THRESHOLD IS INDICATED.
5. INSTALL EDGE STRIPS AT UNPROTECTED OR EXPOSED EDGES WHERE FLOORING TERMINATES.
6. SCRIBE FLOORING TO WALLS, COLUMNS, CABINETS, FLOOR OUTLETS AND OTHER APPURTENANCES TO PRODUCE TIGHT JOINTS.
7. CLEAN SUBSTRATE. SPREAD CEMENT EVENLY IN QUANTITY RECOMMENDED BY MANUFACTURER TO ENSURE ADHESION OVER ENTIRE AREA OF INSTALLATION. SPREAD ONLY ENOUGH ADHESIVE TO PERMIT INSTALLATION OF FLOORING BEFORE INITIAL SET.
8. SET FLOORING IN PLACE, PRESS WITH HEAVY ROLLER TO ENSURE FULL ADHESION.
9. SEAL JOINT BETWEEN FLOORING AND ADJACENT MATERIALS AT RESTROOMS, BATHROOMS, KITCHENS, AND OTHER MOIST AREAS WITH CLEAR SILICONE SEALANT.

E. SPECIAL REQUIREMENTS FOR SHEET FLOORING:
1. INSTALL SHEET FLOORING TO A MINIMUM 1/3 FULL MATERIAL WIDTH, WITH LENGTH OF SHEET PARALLEL TO LENGTH OF ROOM. WHERE CUTTING IS REQUIRED, DOUBLE CUT AND WELD AS SPECIFIED. TRIM IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. SEAMS IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.
3. UNLESS INDICATED OTHERWISE, LAY FLOORING WITH SEAMS PARALLEL TO BUILDING LINES TO PRODUCE MINIMUM NUMBER OF SEAMS.
4. SPECIAL FLASHED COVED BASE REQUIREMENTS:
a. PROVIDE COVE FILLET AT INTERSECTION OF FLOOR AND WALL TO EASE TRANSITION.
b. MITER CUT, FIT, AND HEAT WELD ALL SEAMS, JOINTS, PENETRATIONS, AND TRANSITIONS. EXTEND FLOORING TO ELEVATION ABOVE FINISHED FLOOR LEVEL AS INDICATED.
c. CUT TOP EXPOSED EDGE STRAIGHT AND LEVEL.
d. CAP TOP EDGE WITH CAP TRIM. MITER ALL TRIM CORNER JOINTS. INSTALL TRIM IN MAXIMUM PRACTICAL LENGTHS WITH NO PIECE SHORTER THAN 18 INCHES FOR CONTINUOUS RUNS LONGER THAN 18 INCHES.

F. RUBBER BASE INSTALLATION:
1. ADHESIVELY INSTALL RESILIENT BASE TIGHTLY TO WALL AND FLOOR SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
2. FIT JOINTS TIGHT, VERTICAL, AND IN ACCURATE ALIGNMENT. INSTALL BASE IN MAXIMUM LENGTHS, WITH MINIMUM NUMBER OF JOINTS IN EACH RUN. NO SECTION MAY BE SHORTER THAN 48 INCHES, EXCEPT AS REQUIRED BY WALL CONDITIONS.
3. INSTALL BASE TO WALLS, COLUMNS, AND CASEWORK TOE KICKS IN ALL AREAS WHERE RESILIENT BASE IS SCHEDULED.
4. MITER OR COPE INSIDE CORNERS FOR ACCURATE FIT. SCRIBE AND FIT TO DOOR FRAMES AND OTHER OBSTRUCTIONS.
5. OUTSIDE CORNERS:
a. SCORE BACK OF BASE MATERIAL WITH GROOVING TOOL AND ACCURATELY ALIGN TO CORNER.
b. FIRMLY ADHERE TO WALL AT BOTH SIDES OF CORNER, WITH NO VISIBLE GAPS AT TOP OF BASE.
c. STRETCH TOE OF COVED BASE FOR SMOOTH TRANSITION AROUND CORNER, WITH TOE IN UNIFORM CONTACT WITH THE FINISH FLOORING.
6. REMOVE EXCESS ADHESIVE FROM SURFACES WITHOUT DAMAGE.

G. CLEANING
1. REMOVE EXCESS ADHESIVE FROM FLOOR, BASE, AND WALL SURFACES WITHOUT DAMAGE.
2. CLEAN BASE AND FLOOR IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

096813 CARPETING

A. QUALITY ASSURANCE: CARPET INSTALLER SHALL HAVE MINIMUM OF 3 YEARS EXPERIENCE IN CARPET INSTALLATIONS OF SIMILAR SIZE AND SCOPE.
B. WARRANTY: FURNISH MANUFACTURER'S STANDARD 5-YEAR WARRANTY AGAINST WEAR AND DETERIORATION.
C. MATERIALS:
1. CARPET: AS SCHEDULED ON THE DRAWINGS.
2. PAD: AS SCHEDULED ON THE DRAWINGS.
3. WALK-OFF MAT: AS SCHEDULED ON THE DRAWINGS.
4. ACCESSORIES:
a. CARPET GRIPPERS: ROBERTS ARCHITECTURAL "22-333", OR APPROVED.
b. PAD TAPE: NON-PAPER TAPE RECOMMENDED BY PAD MANUFACTURER.
c. EDGE STRIPS: REDUCER STRIPS; SIZE AND CONFIGURATION AS APPROPRIATE FOR CONDITIONS; COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD LINE.
d. WALK-OFF MAT SCREED: SCHLUTER; ALUMINUM; PROFILE AS INDICATED ON THE DRAWINGS, AND TO SUIT JOB CONDITIONS.

DIVISION 9 - FINISHES, CONT.

e. ADHESIVES: TYPE AS RECOMMENDED BY CARPET, MAT OR SCREED MANUFACTURER FOR INTENDED USE. USE WATERPROOF ADHESIVE AT WALK-OFF MAT.
f. LATEX UNDERLAYMENT: WHITE PREMIX LATEX FILLER.
g. BACKING: AS INDICATED ON THE DRAWINGS.

D. PREPARATION:
1. CLEAN FLOORS OF DUST, DIRT, SOLVENTS, OIL, GREASE, PAINT, PLASTER, AND OTHER SUBSTANCES WHICH WOULD BE DETRIMENTAL TO THE PROPER PERFORMANCE OF ADHESIVE AND CARPET.
2. FILL LOW SPOTS AND CRACKS OVER 1/8 INCH IN WIDTH WITH LATEX UNDERLAYMENT.

E. INSTALLATION:
1. INSTALL CARPETS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
2. VERIFY MATCHING OF CARPET PRIOR TO CUTTING AND ENSURE THAT THERE IS NO VISIBLE VARIATION BETWEEN DYE LOTS.
3. CUT CARPET, WHERE REQUIRED IN A MANNER TO ALLOW PROPER SEAM AND PATTERN MATCH. ENSURE CUTS ARE STRAIGHT AND TRUE AND UNFRAMED.
4. MAKE SEAMS STRAIGHT AND UNIFORM.
5. SEAMING SHALL BE BY HAND SEWING OR WITH HOT MELT TAPE METHODS.
6. DO NOT CHANGE RUN OF PILE IN ANY ONE ROOM.
7. ENSURE MONOLITHIC COLOR, PATTERN AND TEXTURE MATCH WITHIN EACH DISTINCT ROOM.
8. INSTALL EDGING STRIPS WHERE CARPET TERMINATES AT OTHER FLOOR COVERINGS. USE FULL LENGTH PIECES ONLY. BUTT TIGHT TO VERTICAL SURFACES. WHERE SPLICING CANNOT BE AVOIDED, BUTT ENDS TIGHT, FLUSH, AND ACCURATELY ALIGNED.

F. REMNANTS: UPON COMPLETION OF THE INSTALLATION, CONTACT THE ARCHITECT FOR SELECTION OF CARPET REMAINING AFTER TRIMMING. CAREFUL

DIVISION 9 - FINISHES, CONT.

E. MATERIALS:
1. GENERAL REQUIREMENTS: PAINTS NOT SPECIFICALLY LISTED SHALL BE "FIRST QUALITY" COMMERCIAL PRODUCTS FROM ONE OF THE FOLLOWING:
   a. BENJAMIN MOORE PAINT COMPANY.
   b. ICI PAINTS NORTH AMERICA
2. ACRYLIC WALL SIZE: ONE OF THE FOLLOWING:
   a. ICI DEVOE "WONDERPRIME" DR51701 VAPOR BARRIER PRIMER/SEALER.
   b. ICI DULUX "ULTRA-HIDE" 1060 VAPOR BARRIER PRIMER/SEALER.
   c. BENJAMIN MOORE PAINT COMPANY "MOORE'S WALL-GRIP 203."

F. SURFACE PREPARATION:
1. PREPARE SURFACES BY REMOVING ALL DIRT, DUST, GREASE, OIL, MOISTURE, AND OTHER CONTAMINANTS WHICH WILL IMPAIR THE PROPER ADHESION OF THE FINISH.
2. FERROUS METAL SHOP PRIMED UNDER OTHER SECTIONS: CLEAN PREVIOUSLY PRIMED SURFACES WITH NON-PETROLEUM BASED SOLVENT TO REMOVE OIL AND GREASE. REMOVE LOOSE RUST, BLISTERED AND PEELING PAINT TO BARE METAL BY SCRAPING, SANDING, AND WIRE BRUSHING IN ACCORDANCE WITH SSPC-SP2 AND SSPC-SP3. IMMEDIATELY APPLY TOUCH UP PRIME DAMAGED OR ABRADED SURFACES. LIGHTLY SAND ALL SHOP PRIME PAINTED SURFACES TO RECEIVE PAINT FINISH.
3. GALVANIZED FERROUS METAL: CLEAN WITH NON-PETROLEUM BASED IN ACCORDANCE WITH SSPC-SP1; ABRADE SURFACE WITH 3M "SCOTCHBRITE HEAVY DUTY" (BROWN) PAD, AS NECESSARY TO ACHIEVE SUFFICIENT PROFILE FOR PAINT ADHESION.
4. UNPRIMED FERROUS METAL:
   a. SOLVENT CLEAN IN ACCORDANCE WITH SSPC SP-1.
   b. COMMERCIAL BLAST PER SSPC SP6.
5. WOOD - OPAQUE PAINT FINISH:
   a. SPOT COAT KNOTS, PITCH STREAKS, AND SAPPY SECTIONS WITH SEALER.
   b. FILL ALL NAIL HOLES AND CRACKS. SAND FILLER SMOOTH AND LEVEL WITH WOOD SURFACE.
6. WOOD - TRANSPARENT FINISH: FILL ALL EXPOSED FINISH NAIL HOLES AND CRACKS WITH MATCHING COLOR FILLER AFTER PRIME COAT IS APPLIED. SAND FILLER SMOOTH AND LEVEL WITH ADJACENT SURFACES.
7. CONCRETE AND CONCRETE MASONRY UNITS: REMOVE ALL CONTAMINANTS BY WASHING AND WIRE BRUSHING. SANDBLAST IF NECESSARY.
8. GYPSUM PLASTER AND WALL BOARD: REMOVE ALL LIGHT DUST AND DIRT.
9. EXISTING FINISHED SURFACES TO BE REPAINTED.
   a. REMOVE LOOSE, BLISTERED, SCALED, OR CRAZED FINISHES TO BARE SUBSTRATE; FEATHER NEW WORK INTO EXISTING WORK, PREPARE SURFACES TO THE NEAREST BREAK LINE IF NECESSARY TO BLEND NEW FINISHES WITH OLD FINISHES.
   b. WASH AND RINSE SURFACES WITH TRISODIUM PHOSPHATE AND WATER OR OTHER SOLUTION REQUIRED TO REMOVE REMAINING FILM, WAX, OIL, GREASE, SMOKE OR FOREIGN MATTER WHICH WILL IMPAIR BOND, OR CAUSE BLEED THROUGH, OF NEWLY APPLIED FINISHES.
   c. LIGHTLY SAND, OR APPLY A LIQUID DEGLOSSER ON EXISTING SEMI-GLOSS AND HIGH-GLOSS FINISHES BEFORE REFINISHING.

G. SPECIAL APPLICATION REQUIREMENTS:
1. UNLESS SPECIFIED OR INDICATED OTHERWISE, FOLLOW PAINT MANUFACTURER'S LABEL DIRECTIONS FOR GENERAL APPLICATION PROCEDURES AND COVERAGE RATES.
2. DO NOT APPLY FINISHES ON SURFACES THAT ARE NOT SUFFICIENTLY DRY. MAKE SURE EACH COAT OF FINISH IS DRY AND HARD BEFORE A FOLLOWING COAT IS APPLIED UNLESS THE MANUFACTURER'S DIRECTIONS STATE OTHERWISE.
3. TINT FILLER TO MATCH STAIN WHEN CLEAR FINISHES ARE SPECIFIED; WORK FILLER WELL INTO GRAIN AND, BEFORE IT HAS SET, WORKING PERPENDICULARLY TO THE GRAIN, WIPE THE EXCESS FROM THE SURFACE.
4. OPAQUE FINISHES:
   a. APPLY NUMBER OF COATS SCHEDULED FOR EACH APPLICATION, EXCEPT THAT ADDITIONAL FINISH COATS SHALL BE APPLIED AS NECESSARY FOR COMPLETE HIDING OF SUBSTRATE COLORS.
   b. APPLY PRIMER COATS UN-TINTED. WHERE MORE THAN ONE COAT OF PAINT IS REQUIRED, TINT EACH SUCCEEDING COAT UP TO THE FINAL COAT SIMILAR IN TINT,BUT SLIGHTLY LIGHTER IN VALUE (SHADE).
   c. SAND LIGHTLY BETWEEN COATS IF NECESSARY TO ACHIEVE REQUIRED FINISH; SAND BETWEEN ALL COATS APPLIED TO WOOD SUBSTRATES.
5. ROLLERS FOR APPLICATION AND BACKROLLING OF LATEX PAINTS SHALL HAVE A NAP OF 3/8 INCH OR LESS.
6. WHERE ROLLER TEXTURE IS SCHEDULED FOR APPLICATION TO GYPSUM BOARD SURFACES, FINISH COATS MAY BE ROLLER APPLIED, OR SPRAY APPLIED AND BACKROLLED AT CONTRACTOR'S OPTION.
7. FACTORY PRIMED SURFACES: APPLY SCHEDULED FINISH SYSTEM, LESS PRIMER COAT, EXCEPT AS NECESSARY TO FOR PATCHING DAMAGE TO FACTORY PRIME COATING.
8. EXCEPT WHERE SCHEDULED OR INDICATED OTHERWISE, THE INTENT IS TO PAINT ALL NEW ROOMS AND AREAS.
9. EXISTING AREAS WHICH HAVE NOT BEEN REMODELED OR DO NOT HAVE PATCHED SURFACES ARE NOT TO BE REPAINTED. WHERE EXISTING SURFACES HAVE BEEN REMODELED OR PATCHED THE ENTIRE ROOM IS TO BE REPAINTED, INCLUDING THE ASSOCIATED ACCESS PANELS, ELECTRICAL PANELS, HOLLOW METAL DOORS AND FRAMES (BOTH SIDES), AND SIMILAR ELEMENTS WITHIN THE ROOM.

H. INTERIOR SYSTEMS:
1. GYPSUM BOARD - LATEX SYSTEM:
   a. SYSTEM: THREE COATS - FIRST COAT LATEX PRIMER SEALER (UN-TINTED), SECOND AND THIRD COAT LATEX PAINT.
   b. SHEEN: ROLLER TEXTURE, SATIN SHEEN, EXCEPT PROVIDE FLAT SHEEN AT LIGHT COVES, CEILINGS, SKYLIGHT AREAS, CLERESTORY AREAS, INTERIOR FASCIAS, AND OTHER LIGHT SENSITIVE SURFACES. VERIFY LOCATIONS OF EACH SHEEN WITH ARCHITECT BEFORE PROCEEDING WITH WORK.
   c. APPLICATION:
      i. USE ON ALL EXPOSED GYPSUM BOARD SURFACES, INCLUDING THE EXPOSED PORTIONS OF WALL SURFACES BETWEEN ADJACENT WALL-MOUNTED FIXTURES.
      ii. PROVIDE PRIME COAT ONLY BEHIND PERMANENTLY MOUNTED MECHANICALLY WALL MOUNTED FIXTURES.
      iii. DO NOT APPLY PRIMER OR PAINT COATINGS TO SURFACES TO RECEIVE ADHESIVELY MOUNTED MIRRORS OR TILE.
2. GYPSUM BOARD - SURFACES TO RECEIVE WALL COVERING: APPLY ONE COAT OF ACRYLIC WALL SIZE.

I. COLOR SCHEDULE: PROVIDE PAINT COLORS TO MATCH THOSE INDICATED ON THE DRAWINGS. WHERE A PAINT COLOR IS LISTED FROM A SPECIFIC MANUFACTURER, PAINT PRODUCTS FROM OTHER APPROVED MANUFACTURERS MAY BE USED, PROVIDED THE COLOR EXACTLY MATCHES THE SPECIFIED COLOR, AND THE PAINT SYSTEM MEETS THE SPECIFIED REQUIREMENTS. WHERE NO PAINT COLOR IS INDICATED, PROVIDE COLOR AND SHEEN AS SELECTED BY THE ARCHITECT.
1. INSTALL SEALANT BEHIND FLANGES AND AT PENETRATIONS THROUGH PANELING, AND BETWEEN TOP CAP OF PANEL AND SUBSTRATE.
2. CLEANING: REMOVE EXCESS ADHESIVE FROM FACE OF LAMINATE USING SOLVENT RECOMMENDED BY MANUFACTURER.

DIVISION 10 - SPECIALTIES

101402 REST ROOM SIGNAGE

A. SUMMARY:
1. CODE-REQUIRED INTERIOR SIGNAGE.
2. INSTALLATION OF SIGNAGE.

B. SYSTEM DESCRIPTION:
1. ACCESSIBILITY SIGNAGE: PROVIDE ACRYLIC PLASTIC REVERSE SILK SCREENED SIGNS WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY, RAISED LETTERS, AND BRAILLE, AT ACCESSIBLE TOILET FACILITIES; ONE FOR EACH SEX.

C. QUALITY ASSURANCE:
1. REGULATORY REQUIREMENTS: SIGNAGE SHALL CONFORM TO THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.

D. MATERIALS:
1. PLASTIC SHEET: 1/8 INCH THICK ACRYLIC SHEET; LOW GLOSS FINISH.
2. DOUBLE STICK TAPE: 3M "SCOTCH BRAND #665" DOUBLE-STICK, DOUBLE-COATED TAPE, 1/4" WIDE.

SECTION 10810 - TOILET ACCESSORIES

A. QUALITY ASSURANCE
1. CONFORM TO APPLICABLE ACCESSIBILITY CODE FOR LOCATING ACCESSORIES.

B. MATERIALS
1. STAINLESS STEEL: SHEET - IN ACCORDANCE WITH ASTM A 167, TYPE 304.
2. STAINLESS STEEL: TUBING - IN ACCORDANCE WITH ASTM A 269.
3. GALVANIZED STEEL: IN ACCORDANCE WITH ASTM A 366.
4. MIRROR GLASS: IN ACCORDANCE WITH ASTM C 1036, TYPE I, CLASS 1, QUALITY Q1.

DIVISION 9 - FINISHES, CONT.

C. ACCESSORIES
1. FASTENERS: STAINLESS STEEL WHERE EXPOSED, HOT DIP GALVANIZED WHERE CONCEALED; TYPE BEST SUITED TO SUBSTRATE CONDITIONS.
2. FRAMED MIRROR: BOBRICK B-1652436
3. WASTE RECEPTACLE: PROVIDED BY T-MOBILE, INSTALLED BY G.C.,
4. SEAT COVER DISPENSER: HEALTH GUARDS ITEM# 420660, MODEL #HG12-FURNISHED BY T-MOBILES VENDOR, INSTALLED BY G.C.
5. GRAB BAR: BOBRICK B-6806
6. AUTOMATIC HAND DRYER: EXCEL XL-BW WITH ADA RECSEED MOUNTING KIT 40502. FIXED NOZZLE, WHITE FINISH. FURNISHED BY T-MOBILE'S VENDOR, INSTALLED BY G.C.
7. TOILET PAPER DISPENSER: BOBRICK B-76857

D. FABRICATION
1. USE STAINLESS STEEL FOR EXPOSED SURFACES; GALVANIZED STEEL MAY BE USED IN CONCEALED LOCATIONS. FORM EXPOSED SURFACES FROM SINGLE SHEET OF STOCK,FREE FROM JOINS, DENTS AND FLAT WITHOUT DISTORTION. WELD JOINTS OF FABRICATED COMPONENTS AND GRIND SMOOTH. FABRICATE GRAB BARS OF TUBING, FREE OF VISIBLE JOINTS, RETURN TO WALL WITH END ATTACHMENT FLANGES. KNURL GRIP SURFACES. FABRICATE SOAP DISPENSERS TO OPERATE WITH LESS THAN 5 POUND FORCE. PROVIDE HANGERS, ADAPTERS, ANCHOR PLATES AND ACCESSORIES REQUIRED FOR INSTALLATION. KEY LOCKS ALIKE; FURNISH SIX (6) KEYS.
2. FRAMED MIRRORS: ONE COAT OF ORGANIC MIRROR BACKING COMPOUND TO THE BACK SURFACE OF THE GLASS.
3. BACKING: GALVANIZED SHEET STEEL. ISOLATE GLASS FROM FRAME AND BACKING WITH RESILIENT, WATERPROOF PADDING
4. FINISHES:
   a. STAINLESS STEEL: NO. 4 SATIN.
   b. GALVANIZING: ASTM A 123 TO 1.25 OUNCES PER SQUARE FOOT.
   c. CHROME PLATING: ASTM B 456, TYPE SC 2, POLISHED FINISH
5. SHOP ASSEMBLE UNITS AND PACKAGE COMPLETE WITH ANCHORS AND FITTINGS.

E. INSTALLATION
1. SET PLUMB AND LEVEL, SQUARE AND RIGIDLY ANCHORED. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

104416 FIRE EXTINGUISHERS AND CABINETS

A. SUBMITTALS: PRODUCT LITERATURE, INCLUDING EXTINGUISHER DIMENSIONS.
B. EXTINGUISHERS: MULTI-PURPOSE DRY CHEMICAL TYPE: HEAVY DUTY DOT STEEL TANK; UL RATING 2A-10B:C, 5 LB CAPACITY, FM APPROVED; RED ENAMEL FINISH; PRESSURE GAGE; METAL VALVES AND SIPHON TUBES.
C. FIRE EXTINGUISHER CABINETS:
1. TYPE (ONE OF THE FOLLOWING): POTTER-ROEMER, INC. #7023-DV-VB-RR OR #7023- DV-VB-RR-FRC AT RATED CONSTRUCTION. LARSEN'S MANUFACTURING COMPANY #2409-R3 OR #FS-2409-R3 AT RATED CONSTRUCTION, J.L INDUSTRIES #1817V17 OR #1817V17 FIRE-FX AT RATED CONSTRUCTION.
2. STYLE: SEMI-RECESSED (APPROXIMATELY 2-1/2" PROJECTION; ROLLED EDGE); STEEL FRAME AND DOOR WITH CONTEMPORARY 2 INCH WIDE DOUBLE STRENGTH GLASS INSERT.
3. FINISH: MANUFACTURER'S STANDARD BAKED WHITE ENAMEL INTERIOR; FURNISH TO SECTION 099000 FOR FIELD PAINTING.
4. LETTERING: BLACK LETTERING IN VERTICAL FORMAT.

D. FIRE EXTINGUISHER BRACKETS: MANUFACTURER'S STANDARD J-TYPE. PROVIDE AT FIRE EXTINGUISHER LOCATIONS WHERE NO CABINET IS INDICATED.
E. INSTALLATION:
1. INSTALL BRACKETS 48 INCHES FROM FINISHED FLOOR TO TOP OF BRACKET.
2. SECURE RIGIDLY IN PLACE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. INSTALL CABINETS PLUMB AND LEVEL IN WALL OPENINGS IN LOCATIONS AS INDICATED. UNLESS OTHERWISE INDICATED, INSTALL 30 INCHES FROM FINISHED FLOOR TO INSIDE BOTTOM OF CABINET.
4. WHEN RECESSED CABINETS ARE INSTALLED IN FIRE RATED WALLS, MAINTAIN FIRE RESISTANCE RATING CONTINUOUSLY BEHIND THE CABINET.
5. INSTALL IN LOCATIONS AS INDICATED ON THE DRAWINGS.

105623 WIRE STORAGE SHELVING

A. GENERAL: SHELVING SHALL CARRY THE APPROVAL OF THE NATIONAL SANITATION FOUNDATION (NSF)
B. PRODUCT: APPROVED PRODUCTS BELOW (OR EQUAL):
   a. ALERA WIRE SHELVING 48" X 24" X 72"
   b. METRO SUPER ERECTA® (SES) 48 " X 24" X 72"
C. MATERIAL: SHELVES SHALL BE BRIGHT BASIC CARBON STEEL WIRE. POSTS SHALL BE COLD ROLLED CARBON STEEL TUBING, ELECTRIC WELDED. PLASTIC CLIPS MATERIAL SHALL BE ABS.
D. FINISH: BRIGHT PLATED
E. SHELVES: CONSTRUCTION SHALL BE OF OPEN WIRE DESIGN OFFERING GREATER LIGHT PENETRATION AND VISIBILITY, LIGHTER WEIGHT, AIR CIRCULATION AND MINIMAL DUST AND DIRT ACCUMULATION.
F. FABRICATION: FACE RIBS SHALL RUN FRONT TO BACK EQUALLY SPACED ON 20.6MM CENTERS AND TO BE OF 3.4MM WIRE. EACH SIDE (FOUR) OF SHELF SHALL CONSIST OF A CORRUGATED, REINFORCING TRUSS OF 4.5MM WIRE. AT THE FRONT AND BACK OF THE SHELF, THIS CORRUGATED REINFORCING SHALL BE WELDED TO 6.2MM RIB WIRE RUNNING PERPENDICULAR AND ABOVE THE FACE RIBS. A 6.2MM RIB WIRE SHALL BE WELDED TO THE BOTTOM OF THE TRUSS. AT THE ENDS OF THE SHELF, THE CORRUGATED REINFORCING TRUSS SHALL BE WELDED TO PARALLEL 6.2MM WIRE RIBS. DEPENDING UPON THE WIDTH AND LENGTH OF THE SHELF, IT SHALL HAVE THREE OR FIVE LONGITUDINAL RIBS (6.2 MM) WELDED TO THE FACE RIBS. IN ADDITION, CERTAIN LONGER LENGTHS SHALL HAVE ONE OR TWO CORRUGATED REINFORCING TRUSSES (6.2MM) WELDED TO THE UNDERSIDE. AT EACH CORNER OF THE SHELF THERE SHALL BE A TAPERED, CONICAL FITTING MADE OF 2.6MM COLD ROLLED STEEL TO THE PARALLEL RIB SUPPORTS. THE FITTING SHALL BE DESIGNED TO ACCOMMODATE THE VERTICAL SUPPORTS. THE CORRUGATED TRUSS SHALL BE IN THE SHAPE OF THE LETTER "W."
G. POSTS: SHALL OF 1" O.D. ROUND STEEL TUBING, 1.5 MM THICK. THEY SHALL HAVE ROLLED GROOVES SPACED AT 1" O.C. ALONG THEIR LENGTH. THE TOPOF THE POST SHALL HAVE A FINISHED PLASTIC CAP. A DIE CAST THREADED INSERT WITH AN ADJUSTABLE LEVELING FOOT SHALL BE SHIPPED LOOSE FOR LATER INSERTION INTO THE POST BOTTOM.
H. METHOD OF ASSEMBLY: SHALL BE OF THE FRUSTAL-CONICAL DESIGN INCORPORATING A TWO PART TAPERED PLASTIC CLIP. ENGAGEMENT AND LOCKING SHALL BE ACCOMPLISHED WITH A PROTRUDING BEAD ON THE INNER CIRCUMFERENCE OF THE PLASTIC CLIP WHICH WILL MATCH THE GROOVE IN THE POST. TWO PLASTIC CLIPS SHALL BE ATTACHED TO EACH CORNER POST FOR EACH SHELF. BOTH THE CLIPS AND THE CORNER FITTING OF THE SHELVES SHALL HAVE THE IDENTICAL TAPER TO CREATE A WEDGE EFFECT, THEREBY LOCKING THE SHELF SECURELY IN A RIGID POSITION. NO SCREWS OR OTHER FITTINGS SHALL BE REQUIRED TO EFFECT THIS ASSEMBLY. SHELVES SHALL BE VERTICALLY ADJUSTABLE IN 1" INCREMENTS.
I. LOAD CAPACITY: 800 LBS. PER SHELF EVENLY DISTRIBUTED. MAXIMUM LOAD PER ASSEMBLED UNIT NOT TO EXCEED 2,000 LBS.
J. CASTORS: SHALL BE ZINC PLATE ROUND STEM CASTER WITH POLYURETHANE TREAD AND WHEEL DIMENSIONS OF 5" X 1 ¼". WIRE SHELF CARTS ARE STANDARD WITH (2) SWIVEL AND (2) SWIVEL LOCKING CASTORS.
K. SEISMIC ANCHORAGE: WHERE REQUIRED BY CODE AND/OR JURISDICTION HAVING GOVERNANCE, PROVIDE CROSS-BRACING AND ANCHOR PLATES FOR SUPER ERECTA® (SES) PER MANUFACTURER'S SPECIFICATIONS.

DIVISION 11 - NOT USED

DIVISION 12 - FURNISHINGS

0124813 -ENTRANCE FLOOR MATS AND FRAMES

A. RELATED DOCUMENTS
1. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 01 SPECIFICATION SECTIONS,APPLY TO THIS SECTION.

B. PRODUCTS
1. REGULATORY REQUIREMENTS: COMPLY WITH APPLICABLE PROVISIONS IN [THE U.S. ARCHITECTURAL & TRANSPORTATION BARRIERS COMPLIANCE BOARD'S ADA-ABA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES] AND [ICC A117.1]

DIVISION 9 - FINISHES, CONT.

2. RESILIENT ENTRANCE MAT: RETAIN "MANUFACTURERS" PARAGRAPH AND LIST OF MANUFACTURERS BELOW TO REQUIRE PRODUCTS FROM MANUFACTURERS LISTED OR A COMPARABLE PRODUCT FROM OTHER MANUFACTURERS.
3. MANUFACTURERS:
   a. LEGACY NOP BY MATS INC., PO BOX 839, 37 SHUMAN AVENUE, STOUGHTON, MA, 02072; TELEPHONE 800-MATS-INC (800-628-7462) OR 781-344-1536; FAX 781-344-1537; WWW.MATSINC.COM.
   b. FOR VESTIBULES OR WHERE LOWER PROFILE IS REQUIRED: SUPREME NOP BY MATS INC.
4. RECESSED FRAMES: AS SHOWN IN DRAWINGS.
5. COLOR: MILL FINISH

C. EXECUTION
1. EXAMINE SUBSTRATES AND CONDITIONS WHERE FLOOR MATS WILL BE INSTALLED. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED. SUB FLOOR SHALL BE CLEAN AND DRY, AND WITHIN ACCEPTABLE TOLERANCES.
2. INSTALLATION
   a. INSTALL RECESSED MAT FRAMES TO COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. SET MAT TOPS AT HEIGHT RECOMMENDED BY MANUFACTURER FOR MOST EFFECTIVE CLEANING ACTION; COORDINATE TOPS OF MAT SURFACES WITH BOTTOMS OF DOORS THAT SWING ACROSS MATS TO PROVIDE CLEARANCE BETWEEN DOOR AND MAT.
   b. INSTALL NECESSARY SHIMS, SPACERS, AND ANCHORAGES FOR PROPER LOCATION, AND SECURE ATTACHMENT OF FRAMES.
3. INSTALL GROUT AND FILL AROUND FRAMES AND, IF REQUIRED TO SET MAT TOPS AT PROPER ELEVATIONS, IN RECESSES UNDER MATS. FINISH GROUT AND FILL SMOOTH AND LEVEL.

D. PROTECTION
4. AFTER COMPLETING FRAME INSTALLATION AND CONCRETE WORK, PROVIDE TEMPORARY FILLER OF PLYWOOD OR FIBERBOARD IN RECESSES AND COVER FRAMES WITH PLYWOOD PROTECTIVE FLOORING. MAINTAIN PROTECTION UNTIL CONSTRUCTION TRAFFIC HAS ENDED AND PROJECT IS NEAR SUBSTANTIAL COMPLETION.

DIVISION 13 - NOT USED

DIVISION 14 - NOT USED

DIVISION 15 - MECH, PLUMB, FIRE

SECTION 15000 - MECHANICAL, PLUMBING & FIRE PROTECTION

A. MECHANICAL
1. INSTALLATION AND MATERIALS OF ALL SYSTEMS SHALL CONFORM TO THE REQUIREMENTS OF THE CITY, COUNTY, STATE, AND NATIONAL CODES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND REQUIRED TO VISIT THE SITE, VERIFY DIMENSIONAL DATA AND REVIEW EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK. ANY CONFLICTS WITH THE EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
3. A COMPLETE AND OPERABLE SYSTEM SHALL BE PROVIDED. THIS IS DEFINED AS ONE WHICH HAS BEEN FURNISHED, MOUNTED, INSTALLED, AND PLACED IN OPERATION, BALANCED FOR AIR AND WATER, TESTED FOR CONFORMANCE TO THE CAPACITIES CORRESPONDING TO THE DESIGN CRITERIA.
4. THE SYSTEM SHALL BE INSTALLED AND ADJUSTED IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATIONS. TESTED FOR SEQUENCE OF CONTROL INCLUDING FAIL SAFE AND LIFE SAFETY CONSIDERATIONS AND AVAILABLE IN A CLEAN CONDITION.
5. COORDINATE LOCATIONS OF ALL VISIBLE DEVICES WITH THE LIGHTING PLAN.

B. DESIGN CRITERIA - HVAC SYSTEM
1. MAINTAIN AN AVERAGE TEMPERATURE OF 68 TO 70 DEGREES DURING THE WINTER. 75 TO 77 DEGREES DURING THE SUMMER.
2. INTERIOR ZONES SHALL BE DESIGNED TO SERVE 1,800 SQUARE FEET EACH. EXTERIOR ZONES SHALL BE DESIGNED TO SERVE 700 SQUARE FEET EACH.
3. EXHAUST ALL TOILET ROOMS TO THE OUTSIDE AT A RATE OF 2 CFM PER SQ. FT.

C. DESIGN CRITERIA - PLUMBING SYSTEM
1. PROVIDE COMPLETE PLUMBING SYSTEMS NECESSARY TO OPERATE THE DEVICES SHOWN IN THESE DOCUMENTS.

D. DESIGN CRITERIA - FIRE PROTECTION SYSTEM
1. PROVIDE THE NECESSARY FIRE SPRINKLER SYSTEMS AND FIRE ALARM SYSTEMS TO GIVE COMPLETE PROTECTION AS REQUIRED BY CODE.

E. MEP / SPRINKLER NOTES
1. ALL FIRE SPRINKLER WORK SHALL BE PERFORMED BY A BASE BUILDING APPROVED CONTRACTOR. SPRINKLER HEADS IN GYPSUM BOARD AND MALL FRONTS SHALL BE CONCEALED HEAD TYPE. SEMI-RECESSED OR CONCEALED TYPE MAY BE USED IN LAY-IN CEILINGS VISIBLE TO CUSTOMERS. SURFACE MOUNTED HEADS ARE ACCEPTABLE IN THE BACK AREA.
2. FIRE SPRINKLER DESIGN SHALL BE PERFORMED BY A STATE LICENSED DESIGNER.
3. PAINT ALL DIFFUSERS AND GRILLS TO MATCH ADJACENT SURFACES.
4. BATTERY PACKS FOR EMERGENCY LIGHTS SHALL BE REMOTE OR RECESSED.
5. IF CEILING ACCESS PANELS ARE REQUIRED, PAINT TO MATCH ADJACENT SURFACE.
6. ALL TRACK LIGHTS MOUNTED ON P1 FINISH SHALL BE WHITE.
7. VERIFY LOCATIONS OF DEMISING WALLS, CLEAR HEIGHTS, COLUMNS, MALL FRONTS AND ANY OTHER SIGNIFICANT COMPONENTS WITH THOSE INDICATED ON THE PLAN. NOTIFY THE ARCHITECT OF ANY DIFFERENCES.
8. CEILING HEIGHTS INDICATED ON SHEET A-3 ARE INTENDED TO REPRESENT AN "IF POSSIBLE" SCENARIO. IF THE EXISTING STRUCTURE, MAJOR DUCTWORK OR OTHER OBSTRUCTIONS PROHIBIT THE REFERENCED HEIGHTS, PROVIDE AS MUCH HEIGHT AS POSSIBLE, MAINTAINING A 6" DIFFERENCE FROM THE GYPSUM BOARD SURROUND TO THE LAY-IN CEILING. NOTIFY THE ARCHITECT OF THE DIFFERENCES PRIOR TO INSTALLATION.

DIVISION 16 - FIRE ALARM

DIVISION 16
SECTION 16720 - FIRE ALARM SYSTEM

A. GENERAL
1. CONDITIONS OF THE CONTRACT

A. THE GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS SHALL APPLY TO AND FORM PART OF THIS DIVISION.
2. SCOPE:

A. THIS SECTION INCLUDES ALL LABOR, MATERIAL, EQUIPMENT AND RELATED SERVICES NECESSARY TO FURNISH, INSTALL AND CONNECT A COMPLETE FIRE ALARM SYSTEM.
B. A FIRE ALARM SYSTEM SHALL BE PROVIDED WHERE REQUIRED BY LOCAL CODES AND/OR AS REQUIRED BY THE AHJ.
C. PROVIDE COMPLETE SYSTEM DESIGN AND SUBMITTAL INCLUDING PRODUCT DATA AND SHOP DRAWINGS AND SUBMIT TO T-MOBILE FOR APPROVAL. UPON T-MOBILE APPROVAL, SUBMIT TO THE AHJ FOR APPROVAL AND PERMIT. COORDINATE ALL INSPECTIONS AND PERFORM SYSTEM TESTING PER THE AHJ REQUIREMENTS.

B. PRODUCTS
1. COMPLY WITH NFPA 72 AND THE NEC AS APPLICABLE TO CONSTRUCTION AND INSTALLATION OF FIRE ALARM AND DETECTION SYSTEM COMPONENTS AND ACCESSORIES. PROVIDE COMPONENTS AND SYSTEMS WHICH ARE UL LISTED AND LABELED FOR FIRE ALARM. PROVIDE FIRE ALARM AND DETECTION SYSTEMS AND ACCESSORIES WHICH ARE FM APPROVED. COMPLY WITH STATE AND LOCAL REQUIREMENTS AS APPLICABLE.

DIVISION 9 - FINISHES, CONT.

2. ACCEPTABLE MANUFACTURERS: EDWARDS, NOTIFIER, SIEMENS, SIMPLEX. WHERE PART OF THE LANDLORD SYSTEM PROVIDE DEVICES MANUFACTURED BY AND COMPATIBLE WITH LANDLORD SYSTEM.
3. WHERE PART OF THE LANDLORD SYSTEM PROVIDE DEVICES MANUFACTURED BY AND COMPATIBLE WITH LANDLORD SYSTEM. COMPLY WITH ALL REQUIREMENTS AS ESTABLISHED BY THE AHJ AND LANDLORD FOR TENANT SPACES.
4. THE SYSTEM SHALL OPERATE AS A LOW VOLTAGE, INTELLIGENT, POINT IDENTIFICATION FIRE MANAGEMENT SYSTEM. THE FIRE DETECTION AND CONTROL SYSTEM SHALL MONITOR INTELLIGENT (ANALOG) AND ADDRESSABLE (DIGITAL) DEVICES, TRADITIONAL INITIATING DEVICES, POINT IDENTIFY THE ALARM LOCATION AND TRANSMIT A SIGNAL TO THE MONITORING AGENCY.
5. AN ALARM SHALL BE DISPLAYED ON AN 80 CHARACTER ALPHANUMERIC DISPLAY AT THE MAIN PANEL. WHEN REQUIRED BY THE AHJ, PROVIDE REMOTE 80 CHARACTER KEYPAD ANNUNCIATOR AT APPROVED LOCATION.
6. PROVIDE REQUIRED INTERFACE CONNECTION TO FIRE SPRINKLER SYSTEM TAMPER SWITCHES, FLOW SWITCHES AND HIGH/LOW AIR PRESSURE ALARM SWITCHES. INCLUDE CONNECTION TO TAMPER SWITCHES IN EXTERIOR VAULTS.
7. PROVIDE CONNECTION FROM DUCT SMOKE DETECTORS TO FAN STARTER CONTROL CIRCUIT. FANS SHALL BE SHUT DOWN ON LOCAL DETECTION ONLY. PROVIDE INTERFACE RELAY TO CONTROL SYSTEM.
8. PROVIDE F.A. POWER AND FIRE CLOSURE SIGNAL CONNECTION TO ALL FIRE SHUTTERS IN CORRIDORS. SHUTTERS SHALL BE POWERED FROM FIRE ALARM PANEL.
9. PROVIDE MANUAL STATIONS WHERE REQUIRED. MANUAL STATIONS SHALL BE DIE-CAST ALUMINUM WITH WHITE LETTERING AND RED FINISH. EQUIP WITH PLASTIC GUARDS.
10. PROVIDE SMOKE DETECTORS WHERE REQUIRED. SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE WITH VISUAL INDICATION OF DETECTOR ACTUATION. DETECTORS SHALL BE ADDRESSABLE AND INTELLIGENT TYPE.
11. DUCT SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE AND SHALL OPERATE AT AIR VELOCITIES OF 300 FEET PER MINUTE TO 2000 FEET PER MINUTE. AN INTEGRAL FILTER SYSTEM SHALL BE INCLUDED TO REDUCE DUST AND RESIDUE ACCUMULATION. AN AIR FLOW MONITOR SHALL BE INCLUDED TO INDICATE THE PRESENCE AND DIRECTION OF AIR FLOW THROUGH THE DETECTOR. PROVIDE FOR ALL FAN SUPPLYING AIR TO BUILDING WITH CFM TOTALS OF 2000 CFM OR GREATER. PROVIDE AT SUPPLY AND/OR RETURN DUCT AS REQUIRED BY LOCAL CODE.
12. HORN/STROBES SHALL BE SOLID STATE CONSTRUCTION AND SHALL PRODUCE A BROADBAND HORN SOUND OUTPUT OF 96 DBA (103 PEAK DBA) AT 10 FEET IN AN ANECHOIC CHAMBER. THE STROBES SHALL PRODUCE 8000 PEAK CANDLEPOWER AT ONE FLASH PER SECOND.

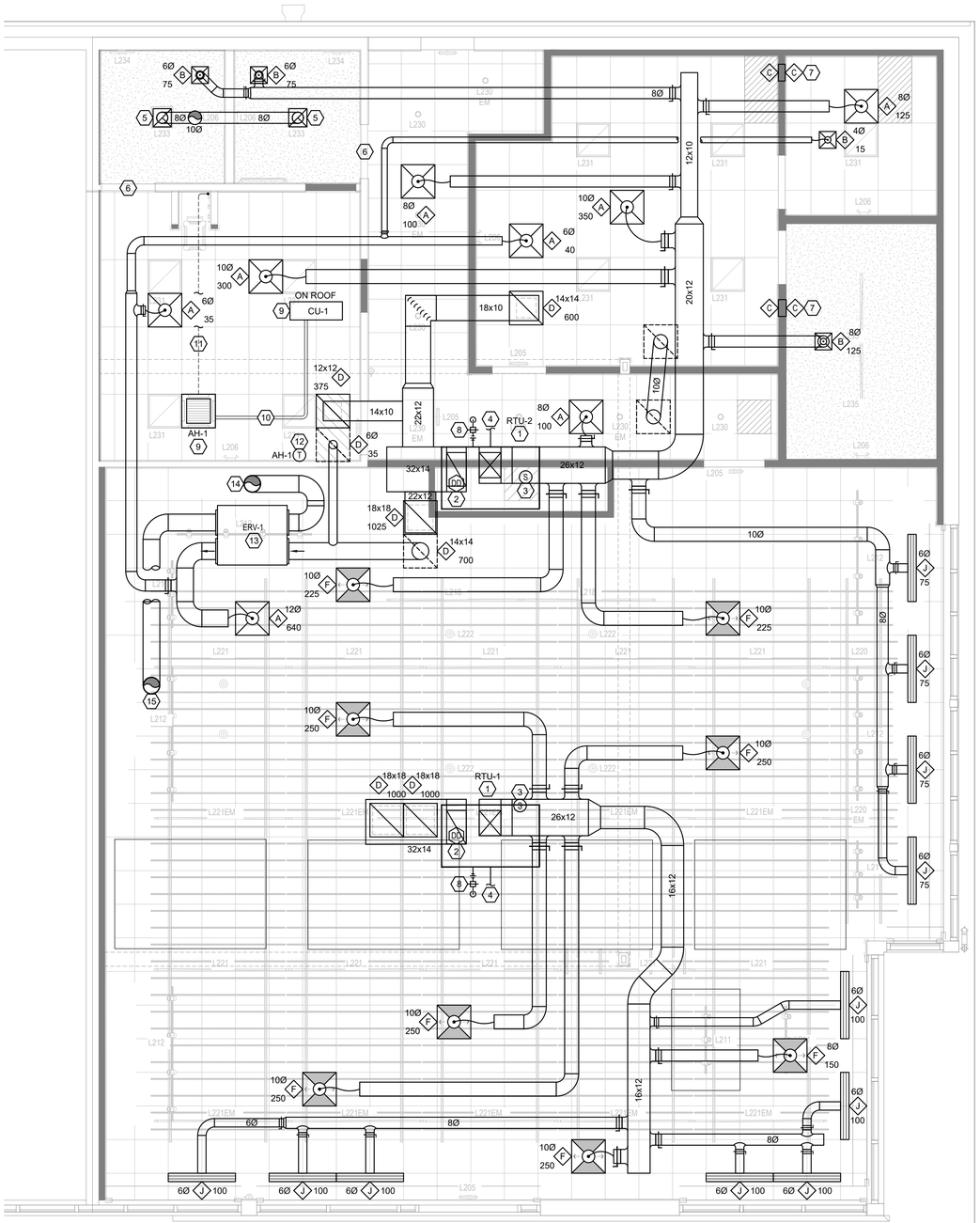
C. EXECUTION:
1. INSTALLATION:
   a. PROVIDE THE SYSTEM IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, ALL APPLICABLE CODES AND THE MANUFACTURER'S RECOMMENDATIONS. ALL WIRING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH ALL THE PROVISIONS OF NEC; ARTICLE 760 A AND C, POWER-LIMITED FIRE PROTECTIVE SIGNALING CIRCUITS OR, IF REQUIRED, MAY BE RECLASSIFIED AS NON-POWER LIMITED AND WIRED IN ACCORDANCE WITH NEC; ARTICLE 760 A AND B. UPON COMPLETION, THE CONTRACTOR SHALL SO CERTIFY IN WRITING TO T-MOBILE AND GENERAL CONTRACTOR.
   b. THE SUPPLIER SHALL HAVE THE CAPABILITIES OF RESPONDING TO A SERVICE CALL WITH A FACTORY TRAINED TECHNICAL REPRESENTATIVE WITHIN 24 HOURS. ALSO, THIS SUPPLIER SHALL MAINTAIN AN ADEQUATE STOCK OF ALL PARTS NECESSARY FOR THE REPAIR OF THIS EQUIPMENT ON HAND AT ALL TIMES.
   c. THE SYSTEM, UPON COMPLETION OF INSTALLATION BY THE CONTRACTOR, SHALL BE CHECKED OUT AND ALL CONNECTIONS TO INITIATING AND INDICATING DEVICES SHALL BE SUPERVISED BY FACTORY TRAINED TECHNICIANS IN THE EMPLOY OF A FACTORY FRANCHISED DEALER FOR THE PRODUCT INSTALLED. EACH INDIVIDUAL DEVICE SHALL BE CHECKED OUT AND TESTED FOR OPERATION BY A FACTORY TRAINED TECHNICIAN.
   d. THE COMPLETED FIRE ALARM SYSTEM SHALL BE FULLY TESTED IN ACCORDANCE WITH NFPA 72H BY THE CONTRACTOR IN THE PRESENCE OF T-MOBILE'S REPRESENTATIVE AND THE LOCAL FIRE MARSHAL. UPON COMPLETION OF A SUCCESSFUL TEST, THE CONTRACTOR SH

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS. WHERE EXISTING CONDITIONS EXIST THAT PREVENT COMPLETION OF WORK, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTOR'S COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES. THE PLANS AND SPECIFICATIONS NOT WITHSTANDING, THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.



A3 MECHANICAL FLOOR PLAN
1/4" = 1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

KEYED NOTES

##	NOTES
1	NEW ROOFTOP UNIT. CONNECT NEW DUCTWORK TO SUPPLY AND RETURN DROPS DOWN THRU ROOF. VERIFY EXACT LOCATION IN FIELD.
2	PROVIDE NEW DUCT MOUNTED SMOKE DETECTOR WITH REMOTE TEST STATION IN THE RETURN DUCT UPSTREAM OF ANY FILTERS. DETECTOR SHALL SHUT DOWN UNIT UPON DETECTION OF SMOKE. INSTALL REMOTE TEST STATION IN CEILING GRID BENEATH UNIT.
3	INSTALL OWNER SUPPLIED ENTOUCH.one MASTER CONTROLLER THERMOSTAT, ZONE TEMPERATURE SENSOR AND DUCT TEMPERATURE SENSOR. MOUNT THERMOSTAT AT 48" A.F.F.. PROVIDE AND PULL CAT5 CABLE FROM ET1 THERMOSTAT TO OPEN PORT ON CUSTOMER NETWORK SWITCH. MOUNT ZONE TEMPERATURE SENSOR AT 60" A.F.F. AND WIRE TO THE S2 & S2 RTN. MOUNT DUCT TEMPERATURE SENSOR IN THE MAIN SUPPLY DUCT WITHIN 6 FEET FROM UNIT AND WIRE TO S2 & S2 RTN. CABLE RUNS AND TERMINATIONS BY MC/GC (CABLE PULL).
4	PROVIDE CONDENSATE PER CODE. EXTEND TO LANDLORD APPROVED RECEPTOR AS REQUIRED. VERIFY POSSIBLE REUSE OF EXISTING CONDENSATE IN FIELD.
5	NEW CEILING EXHAUST FAN/LIGHT COMBO PROVIDED WITH THE LIGHTING PACKAGE. ROUTE EXHAUST DUCT UP THROUGH ROOF. MAINTAIN 10'-0" FROM ANY FRESH AIR INTAKE. PROVIDE GOOSENECK FITTING WITH INSECT SCREEN AT DISCHARGE. PROVIDE INSULATED DUCT CURB AT ROOF PENETRATION. SEE SCHEDULE.
6	UNDERCUT DOOR A MINIMUM OF 1" (MAXIMUM 1-1/4".)
7	PROVIDE NEW TRANSFER GRILLE THRU INVENTORY/TELCO ROOM WALL. INSTALL TOP OF GRILLE 6" BELOW FINISHED CEILING. PROVIDE MESH SCREENING OVER OPENING IN WALL. SEE SCHEDULE FOR SIZE.
8	PROVIDE GAS LINES PER CODE. CONNECT TO EXISTING METER & COORDINATE WITH UTILITY. VERIFY POSSIBLE REUSE OF EXISTING GAS LINE.
9	PROVIDE AND INSTALL NEW DUCTLESS SPLIT SYSTEM UNITS PER SCHEDULE. CU LOCATED ON ROOF. G.C. TO COORDINATE WITH LANDLORD AS REQUIRED FOR ALL LANDLORD ROOF WORK RULES AND REGULATIONS.
10	PROVIDE AND INSTALL CONDENSER LINES AND OIL RETURN LOOP.
11	PROVIDE AND INSTALL CONDENSATE LINES PER LOCAL CODE REQUIREMENTS. ROUTE LINE TO TERMINATE AT UTILITY SINK.
12	INSTALL OWNER SUPPLIED ENTOUCH.ONE MASTER CONTROLLER THERMOSTAT, AND DUCT TEMPERATURE SENSOR. MOUNT THERMOSTAT AT 48" A.F.F., PROVIDE AND PULL CAT5 CABLE FROM ET1 THERMOSTAT TO OPEN PORT ON CUSTOMER NETWORK SWITCH. MOUNT ZONE TEMPERATURE SENSOR AT 60" A.F.F. AND WIRE TO THE S2 & S2 RTN. MOUNT DUCT TEMPERATURE SENSOR IN THE MAIN SUPPLY DUCT WITHIN 6 FEET FROM UNIT AND WIRE TO S2 & S2 RTN. CABLE RUNS AND TERMINATIONS BY MC/GC (CABLE PULL). PROVIDE MITSUBISHI PAC-US444CN-1 THERMOSTAT INTERFACE FOR CN105-IT TERMINAL CONNECTION TO ENTOUCH CONTROLS.
13	PROVIDE ERV UNIT FOR COMPLIANCE WITH DOAS SECTION C403.6.
14	OUTSIDE AIR INTAKE DUCT FROM ROOF. PROVIDE GREENHECK GRSI FITTING WITH BIRD SCREEN AT INTAKE. PROVIDE INSULATED CURB AT ROOF PENETRATION. PROVIDE MOTORIZED BACKDRAFT DAMPER AND INTERLOCK DAMPER WITH UNIT TO SHUT DOWN BELOW 38 DEGREES F. PROVIDE 15 FOOT FREEZE PROBE IN OUTSIDE AIR DUCT TO BE CONNECTED TO UNIT CONTROLS. COORDINATE EXACT ROUTING & INTAKE LOCATION WITH LANDLORD PRIOR TO BID. MIN 10'-0" FROM ANY EXHAUST VENT.
15	EXHAUST AIR RELIEF DUCT TO ROOF. PROVIDE GREENHECK GRSI FITTING WITH BIRD SCREEN AT DISCHARGE. PROVIDE INSULATED CURB AT ROOF PENETRATION. PROVIDE MOTORIZED BACKDRAFT DAMPER AND INTERLOCK DAMPER WITH UNIT TO SHUT DOWN BELOW 38 DEGREES F. PROVIDE 15 FOOT FREEZE PROBE IN EXHAUST AIR DUCT TO BE CONNECTED TO UNIT CONTROLS. COORDINATE EXACT ROUTING & DISCHARGE LOCATION WITH LANDLORD PRIOR TO BID. MIN 10'-0" FROM ANY FRESH AIR INTAKE.

GENERAL NOTES

A. ALL ROOF WORK IS TO BE DONE BY THE LANDLORD'S ROOFING CONTRACTOR AND AT THE TENANT'S EXPENSE.

B. ALL DUCTWORK SHALL BE GALVANIZED SHEETMETAL PER SMACNA STANDARDS. NO DUCTBOARD PERMITTED.

C. ALL DUCT WORK SHALL BE INSULATED WITH A MINIMUM R-6 INSULATION FOR INTERIOR DUCTWORK AND A MINIMUM R-8 INSULATION FOR EXTERIOR DUCTWORK PER IECC (IN CALIFORNIA PROVIDE MINIMUM R-8 INTERIOR / EXTERIOR.)

D. PROVIDE INSULATED FLEXIBLE DUCT CONNECTIONS TO DIFFUSERS. FLEX DUCT LENGTH NOT TO EXCEED 5 FT.

E. VERIFY THE EXACT MOUNTING FRAME REQUIRED FOR EACH DIFFUSER.

F. PROVIDE ALL MANUAL BALANCE DAMPERS REQUIRED TO BALANCE THE ENTIRE SYSTEM.

G. ALL NEW RESTROOM DOORS SHALL BE UNDERCUT A MINIMUM 1". TENANT GENERAL CONTRACTOR SHALL ENSURE THAT EXISTING DOORS COMPLY.

H. PROVIDE AND SIZE CONDENSATE LINES AS REQUIRED. ROUTE TO NEAREST ROOF DRAIN WHERE PERMITTED, ELSE TO THE NEAREST APPROVED RECEPTOR.

I. MODIFY THE SPRINKLER SYSTEM (WHERE EXISTING) TO ACCOMMODATE NEW FLOOR PLAN LAYOUT PER NFPA 13. REPLACE SPRINKLER HEADS AS REQUIRED. ALL HEADS IN THE SALES AREA ARE TO BE CONCEALED PENDANT TYPE. NON-SALES AREAS ARE TO BE PENDANT TYPE. CONTACT THE LANDLORD FOR ADDITIONAL REQUIREMENTS AND A LIST OF APPROVED FIRE PROTECTION CONTRACTORS.

J. REPLACE FILTERS PRIOR TO TURNOVER.

K. PROVIDE RFI/RFQ TO P.M. & ARCHITECT FOR ALL DISCREPANCIES PRIOR TO COMMENCING WORK.

L. TENANT GENERAL CONTRACTOR SUB TO PROVIDE REDLINES OF ALL DEVIATIONS FROM THE PLANS AND PROVIDE A COMPLETE TEST & BALANCE REPORT AS REQUIRED BY THE CONTRACT.

MECHANICAL LEGEND

MANUAL BALANCING DAMPER TO BE PLACED IN ACCESSIBLE LOCATION

NOTE: SEE SHEET M102 FOR MECHANICAL SCHEDULES AND SHEET M501 FOR MECHANICAL DETAILS

WHEN REQUIRED, IT IS THE OWNER'S RESPONSIBILITY TO CONTRACT WITH A COMMISSIONING AUTHORITY TO COMPLY WITH LOCAL CODES.

T-Mobile

12920 SE 38th STREET
BELLEVUE, WA 98006
WWW.T-MOBILE.COM

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SOUTH MERIDIAN & 43RD AVE SE

4227 S MERIDIAN SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y

PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

CLINTON LUCAS
STATE OF WASHINGTON
23036882
REGISTERED PROFESSIONAL ENGINEER
11/26/2024

PRCTI20241902

DATE: 11.11.2024

FUZION
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GEMINI ENGINEERING GROUP
101 Nightlinger Lane
Millsap, TX 76066
(817) 901-5191

##	DESCRIPTION	DATE

DATE: 11.11.2024
DRAWN BY: HO

MECHANICAL FLOOR PLAN

M101

MECHANICAL SYMBOLS

NOTE: NOT ALL USED AT THIS LOCATION

SINGLE LINE	DESCRIPTION	DOUBLE LINE
	90° ELBOW DOWN	
	90° ELBOW UP	
	ROUND RADIUS ELBOW	
	90° STRAIGHT TEE	
	90° CONICAL TEE	
	45° BRANCH	
	45° CONICAL TEE	
	SIZE OR SHAPE TRANSITION	
	ROUND FLEXIBLE DUCT	
	90° ELBOW DOWN	
	90° ELBOW UP	
	RECTANGULAR RADIUS ELBOW	
	RECTANGULAR ELBOW WITH TURNING VANES	
	BRANCH TAKE-OFF WITH 45° TAP	
	LINED DUCTWORK (UNLESS NOTED OTHERWISE)	
	SIDEWALL SUPPLY GRILLE OR REGISTER WITH AIR EXTRACTOR	
	SUPPLY DUCT RISER	
	RETURN, EXHAUST OR OUTSIDE AIR DUCT RISER	
	DOOR GRILLE	
	MANUAL BALANCING DAMPER	
MD	MOTORIZED DAMPER	MD
FD	FIRE DAMPER	FD
FSD	COMBINATION FIRE AND SMOKE DAMPER WITH SMOKE DETECTOR	FSD
SD	SMOKE DAMPER (AUTOMATIC) WITH SMOKE DETECTOR	SD
S	DUCT MOUNTED SMOKE DETECTOR	S
	RETURN AIR DUCT / CEILING RETURN AIR GRILLE OR REGISTER	AND/OR
	SUPPLY AIR DUCT / SUPPLY DIFFUSER LINEAR DIFFUSER	AND/OR
	EXHAUST AIR DUCT / CEILING MOUNTED EXHAUST FAN	AND/OR
	CANVAS CONNECTOR WITH VIBRATION	
	CONNECT TO EXISTING	
	REMOVE TO THIS POINT	
	FLEXIBLE CONNECTION	
T	THERMOSTAT	T
S	SENSOR	S
	UNIT HEATER	
	EXHAUST FAN	
	CONDENSING UNIT	
	FAN COIL UNIT / AIR HANDLER UNIT	
	ROOFTOP AIR CONDITIONING UNIT	
O.A.	OUTSIDE AIR INTAKE	O.A.
	TRANSFER GRILLE	
	DUCT SLEEVE	

MECHANICAL ABREVIATIONS

NOTE: NOT ALL USED AT THIS LOCATION

A.C.U. OR A.C.	AIR CONDITIONING UNIT (SPLIT-DX OR WATER COOLED)
A.F.F.	ABOVE FINISHED FLOOR
A.H.U.	AIR HANDLING UNIT
B.O.H.	BACK OF HOUSE
B.T.U.H.	BRITISH THERMAL UNIT / HOUR
C.H.	CABINET HEATER
C.U.	CONDENSING UNIT (SPLIT-DX SYSTEMS)
C.F.M.	CUBIC FEET PER MINUTE
E.A.T.	ENTERING AIR TEMPERATURE
E.B.H.	ELECTRIC BASEBOARD HEATER
E.D.H.	ELECTRIC DUCT HEATER
E.E.R.	ENERGY EFFICIENCY RATIO
E.F.	EXHAUST FAN
E.S.P.	EXTERNAL STATIC PRESSURE
F.C.U.	FAN COIL UNIT
F.F.C.H.	FORCED FLOW CABINET HEATER
F.L.A.	FULL LOAD AMPS
G.F.I.	GROUND FAULT INTERRUPTER
I.O.M.	INSTALLATION AND OPERATION MANUAL
K.W.	KILOWATT
L.A.T.	LEAVING AIR TEMPERATURE
M.C.A.	MINIMUM CIRCUIT AMPACITY
N.C.	NOISE CRITERIA
O.A.	OUTSIDE AIR
P.S.I.	POUNDS PER SQUARE INCH
R.L.A.	RUNNING LOAD AMPS
R.T.U.	ROOF TOP UNIT
S.E.E.R.	SEASONAL ENERGY EFFICIENCY RATIO
T.G.C.	TENANT GENERAL CONTRACTOR
U.H.	UNIT HEATER
U.N.O.	UNTIL NOTED OTHERWISE
V.F.	VENTILATION FAN
W.C.	WATER COLUMN
W.G.	WATER GAUGE

HVAC LOAD CALCULATIONS

T-Mobile 8022
4227 S Meriian Suite E
Puyallup, WA 98373
3263 Square Feet

ASHRAE DESIGN CONDITIONS

COOLING OA DB	89	COOLING OA WB	67
COOLING IA DB	70	COOLING IA WB	63
HEATING OA	19	HEATING IA	72
ROOF U-FACTOR	0.050	LIGHTING WATTS	2400
LIGHT DIVERS.	1.1	MISC. WATTS	10005
VENT CFM - MIN OA	740	SQ FT/PERSON	75
VENT CFM/PERSON	15.0	NO OF PEOPLE	44
WALL AREA	3024	WALL U-FACTOR	0.07
PEOPLE SENS HEAT	250	PEOPLE LATENT	200

COOLING LOAD SUMMARY

SENSIBLE HEAT GAIN		LATENT HEAT GAIN	
PEOPLE	10877	PEOPLE	8701
VENTILATION	15255	VENTILATION	6789
ROOF LOAD	15010		
LIGHT LOAD	9010		
MISC LOAD	34147		
WALL LOAD	18084		
TOTAL SENSIBLE	102382	TOTAL LATENT	15491
TOTAL COOLING LOAD	117873 BTUH		
SENS/TOTAL RATIO	87 %		
NOMINAL CFM	4696 CFM		

HEATING LOAD SUMMARY

SENSIBLE HEAT GAIN		LATENT HEAT GAIN	
VENTILATION	42554	VENTILATION	0
ROOF LOAD	8647		
WALL LOAD	10418		
TOTAL SENSIBLE	61618	TOTAL LATENT	0

NEW PACKAGED GAS HEAT ROOFTOP UNIT SCHEDULE

SYMBOL	BASIS FOR DESIGN	AIR FLOW (CFM)	O.A. FLOW (CFM)	EXT. S.P. (IN W.C.)	DX COOLING COIL			GAS HEAT			ELECTRICAL					APPROX. WEIGHT (LBS.)	NOTES
					TONS	TOTAL LOAD (MBH)	SENSIBLE LOAD (MBH)	INPUT (MBH)	OUTPUT (MBH/HR)	STAGES	VOLTS/Ø/HZ.	MCA	MOCP	EER2	SEER2		
RTU-1	TRANE YSK060	2,000	440	.70	5	61.4	47.8	100	70	2	208/3/60	29	45	11.0	13.4	1,100	1
RTU-2	TRANE YSK060	2,000	290	.70	5	61.4	47.8	100	70	2	208/3/60	29	45	11.0	13.4	1,100	1

NOTES

1. SEE EXISTING SYSTEM NOTES THIS SHEET

VENTILATION REQUIREMENT CALCULATION

PER IMC TABLE 403.3

ROOM NAME	UNIT SERVICING	PEOPLE	CFM/PERSON	CFM/SF	AREA (SF)	PEOPLE X CFM/PERSON	SF X CFM/SF	TOTAL O.A. CFM	ZONE AIR DIST EFF TABLE 403.2.1.2	REQUIRED O.A. CFM	PROVIDED O.A. CFM
SALES	ERV-1	32	7.5	0.12	2104	240	252.48	492.48	0.8	615.6	620
CORRIDOR	ERV-1	-	-	0.06	264	-	15.84	15.84	0.8	19.8	20
BOH-1	ERV-1	2	5	0.06	252	10	15	25	0.8	31.4	35
BOH-2	ERV-1	2	5	0.06	311	10	19	29	0.8	35.825	40
OFFICE	ERV-1	1	5	0.06	86	5	5	10	0.8	12.7	15
RESTROOMS		-	-	-	120	-	-	-	0.8	-	-
							MINIMUM FRESH AIR CFM REQUIRED PER CODE				730
							TOTAL O.A. PROVIDED				730
RESTROOMS	70 CFM / FIXTURE			# FIXTURES=	2	150	CFM EXHAUST REQ'D	150	CFM EXHAUST PROVIDED	150	CFM EXHAUST PROVIDED

NOTES: REPRESENTS CONDITIONS DURING NORMAL OPERATIONS AND NOT CONSIDERING ECONOMIZER OPERATION.

DUCTLESS DX SPLIT SYSTEM SCHEDULE

SYMBOL	MITSUBISHI MODEL	AIR HANDLER						AIR COOLED CONDENSING UNIT								COOLING PERFORMANCE DATA			
		MOUNTING	CFM	OA	FLA	POWER CONN. V.	POWER CONN. Ph.	WEIGHT (LBS.)	COMPRESSORS NO.	COMPRESSORS RLA	REF. TYPE	POWER CONNECTION V.	POWER CONNECTION Ph.	POWER CONNECTION MCA	POWER CONNECTION MOCP	WEIGHT (LBS.)	CAPACITY (MBH) TOTAL	CAPACITY (MBH) SENS.	SEER2	EER2
AH-1	PLA-A24EA8	CEILING	710	--	0.28	POWERED BY OUTDOOR UNIT		57									24.0	20.6	24.7	14.3
CU-1	PUY-A24NHA7								1	7	R410A	208	1	19	26	151				

NOTES:
1. PROVIDE 3RD PARTY THERMOSTAT INTERFACE MODEL #PAC-US445CN-1 FOR CN105-IT TERMINAL CONNECTION TO ENTOUCH CONTROLS.
2. INSTALL INTERFACE CARD AT EACH UNIT AND RUN THERMOSTAT WIRES DOWN TO EACH LOCATION.
3. EACH UNIT WILL NEED A STEP-DOWN TRANSFORMER TO CONVERT 120VAC TO 24VAC TO POWER THE T-STAT INTERFACE AND SUPPLY POWER TO THE ENTOUCH T-STAT.
4. SIZE, ROUTE, INSULATE AND PROVIDE APPURTENANCES FOR DX PIPING SYSTEMS, PER MANUFACTURER RECOMMENDATIONS.
5. COORDINATE OUTDOOR UNIT MOUNTING REQUIREMENTS AND ROOF PENETRATIONS WITH ROOFING CONTRACTOR.
6. PROVIDE WITH CONDENSATE PUMP EQUAL TO LITTLE GIANT VCC-20. REFER TO DRAWINGS FOR CONDENSATE ROUTING REQUIREMENTS.
7. MITSUBISHI IS THE BASIS OF DESIGN. ALTERNATES TO BE APPROVED BY OWNER AND ENGINEER PRIOR TO ORDERING. CONTRACTOR IS RESPONSIBLE FOR VARIATIONS IN FIT AND ELECTRICAL SERVICE.
8. FOR REFRIGERANT LINESETS LONGER THAN 70'-0", FOLLOW MANUFACTURER'S LONG LINESET GUIDELINES.

ENERGY RECOVERY VENTILATOR

SYMBOL	MANUFACTURER	MODEL	DRIVE TYPE	PERFORMANCE AIR FLOW (CFM)	PERFORMANCE EXT. STATIC (IN W.C.)	ELECTRICAL VOLTS/Ø/HZ.	ELECTRICAL FAN MOTOR HP	ELECTRICAL MCA	ELECTRICAL MOCP	APPROX. WEIGHT (LBS.)	NOTES
ERV-1	RENEWAIRE	HE 1.5IN	DIRECT	730	.25	208/3/60	1.0	5.0	15	337	

DIFFUSER SCHEDULE

MARK	MANUF.	MODEL	SERVICE	MODULE SIZE (L" x W")	FRAME TYPE	FINISH	MOUNTING	N.C.	NOTES
A	TITUS	TMSA	SUPPLY DIFFUSER	24" x 24"	SEE PLANS	#26 WHITE	CEILING GRID	<25	1,2,3,4
B	TITUS	TMSA	SUPPLY DIFFUSER	12" x 12"	SEE PLANS	#26 WHITE	CEILING GRID	<25	1,2,3,4
C	TITUS	350R	RETURN GRILLE	12" x 10"	SEE PLANS	#26 WHITE	WALL	<25	1,5
D	TITUS	50F	RETURN GRILLE	24" x 24"	SEE PLANS	SALES - BLACK IRON BOH - #26 WHITE	CEILING GRID	<25	1,2,3
F	TITUS	TMSA	SUPPLY DIFFUSER	24" x 24" (2-WAY)	SEE PLANS	BLACK IRON	CEILING GRID	<25	1,2,3,4

NOTES:
1. OR APPROVED EQUAL.
2. COORDINATE EXACT FRAME MOUNTING TYPE WITH ARCHITECTURAL CEILING PLAN.
3. BRANCH DUCT SIZE SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE NOTED.
4. SELECT TMSA DIFFUSER PER NECK SIZE. SEE PLANS.
5. MOUNT TOP OF GRILLE 6" BELOW FINISHED CEILING.

SALES FLOOR SUPPLY DIFFUSERS AND RETURN GRILLES TO BE PAINTED BENJAMIN MOORE "BLACK IRON" MATTED IN THE FIELD.

LINEAR DIFFUSER SCHEDULE

MARK	MANUF.	MODEL	SERVICE	MODULE SIZE (L" x W")	FRAME TYPE	FINISH	MOUNTING	N.C.	NOTES
J	TITUS	FL-10-JT	SUPPLY DIFFUSER	48" X 1" (1-SLOT)	TYPE 66	BLACK IRON	CEILING GRID	<25	1,2,3,4,5,6,7

NOTES:
1. OR APPROVED EQUAL.
2. UNITS SHALL BE FURNISHED WITH APPROPRIATE FRAMES, ETC.
3. PROVIDE TITUS PLENUM BOX FBPI-10 (1" INSULATED).
4. TRANSITION FROM BACK OF AIR DEVICE TO DUCT SIZE SHOWN ON PLANS.
5. PROVIDE WITH SPECIFIED PATTERN CONTROLLER.
6. PROVIDE WITH OPTIONAL INLET DAMPER FOR AIR BALANCE.

EXHAUST FAN SCHEDULE

MARK	MANUF.	MODEL	DRIVE TYPE	PERFORMANCE AIR FLOW (CFM)	PERFORMANCE EXT STATIC (W.C.)	PERFORMANCE FAN SPEED (RPM)	PERFORMANCE SONES	ELECTRICAL V	ELECTRICAL P	ELECTRICAL MOTOR HP	MOUNTING	APPROX. WEIGHT (LBS)	NOTES
L233	BROAN	QTXE110150DCL	DIRECT	110	0.1	--	0.8	208	3	--	CEILING	14	1,2,3

NOTES:
1. OR APPROVED EQUAL.
2. PROVIDE INSULATED ROOF CURB FOR MOUNTING.
3. PROVIDE WITH BACKDRAFT DAMPER.
4. PROVIDE GOOSENECK FITTING/INSECT SCREEN AT DISCHARGE ON ROOF.

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

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SOUTH MERIDIAN & 43RD AVE SE
4227 S MERIDIAN SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y
PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

CLINTON LUCAS — STATE OF WASHINGTON — 23036882 — REGISTERED PROFESSIONAL ENGINEER
11/26/2024

PRCTI20241902

DATE: 11.11.2024

FUZION
9096 EAST BAHIA DRIVE
SUITE 103
SCOTTSDALE, AZ 85260
design@fuzionad.com
(480) 463 - 4764
www.fuzionad.com

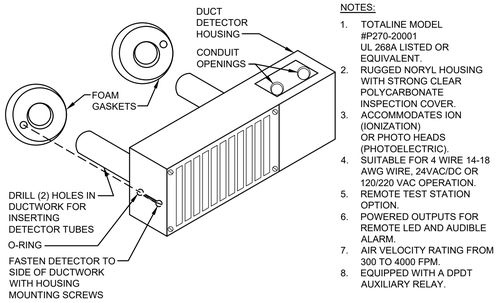
GEMINI ENGINEERING GROUP
101 Nightlinger Lane
Millsap, TX 76066
(817) 901-5191

##	DESCRIPTION	DATE

DATE: 11.11.2024
DRAWN BY: HO

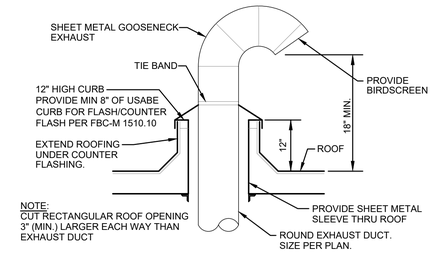
MECHANICAL SCHEDULES

M102



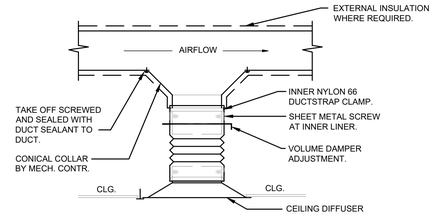
NOTES:
1. TOTALINE MODEL #P270-20001 UL 268A LISTED OR EQUIVALENT.
2. RUGGED NORYL HOUSING WITH STRONG CLEAR POLYCARBONATE INSPECTION COVER.
3. ACCOMMODATES ION (IONIZATION) OR PHOTO HEADS (PHOTOELECTRIC).
4. SUITABLE FOR 4 WIRE 14-18 AWG WIRE, 24VAC/DC OR 120/220 VAC OPERATION.
5. REMOTE TEST STATION OPTION.
6. POWERED OUTPUTS FOR REMOTE LED AND AUDIBLE ALARM.
7. AIR VELOCITY RATING FROM 300 TO 4000 FPM.
8. EQUIPPED WITH A DPDT AUXILIARY RELAY.

C2 DUCT SMOKE DETECTOR
NTS



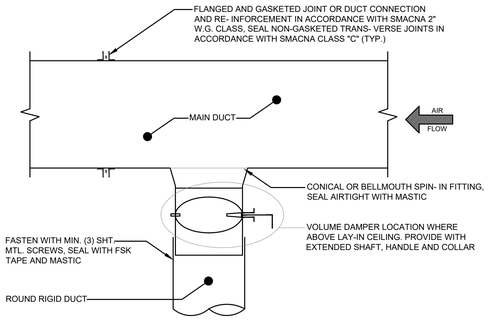
NOTE:
CUT RECTANGULAR ROOF OPENING 3" (MIN.) LARGER EACH WAY THAN EXHAUST DUCT

C1 GOOSENECK EXHAUST FAN DETAIL
NTS

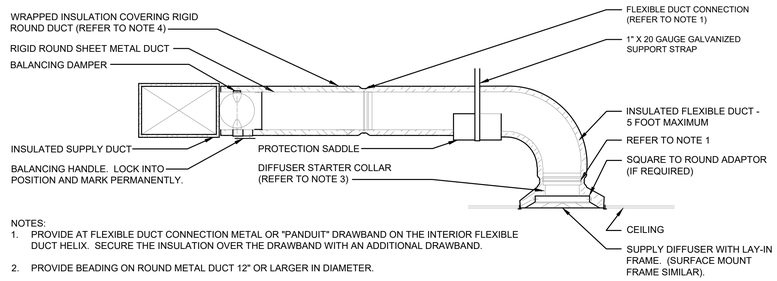


NOTES:
FLEXIBLE DUCT IS TO BE USED FOR VERTICAL DROPS ONLY. RUNOUTS AND ELBOWS ARE TO BE SHEETMETAL DUCT. THE MECHANICAL CONTRACTOR MUST PROVIDE ADAPTERS FOR DIFFUSERS WITH SQUARE AND RECTANGULAR NECKS AS REQUIRED. INNER LINER TO BE SECURED TO COLLAR BY NYLON STRAP AND THREE SHEET METAL SCREWS TO PREVENT LINER FROM SLIPPING OFF COLLAR. MAXIMUM FLEX DUCT IS 3 FEET. CUT SMALL SLIT IN LINER AT DAMPER ADJUSTMENT W/STRING OR WIRE MARKER TO SHOW LOCATION.

B4 BOTTOM DISCHARGE DETAIL
NTS

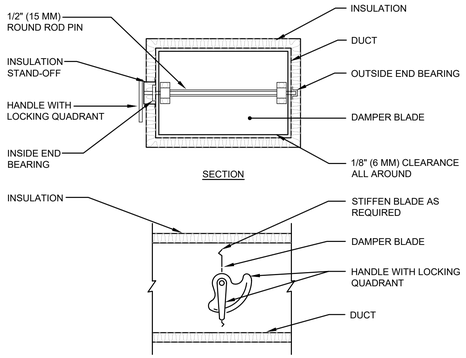


B3 RECTANGULAR DUCT TAKE OFF DETAIL
NTS



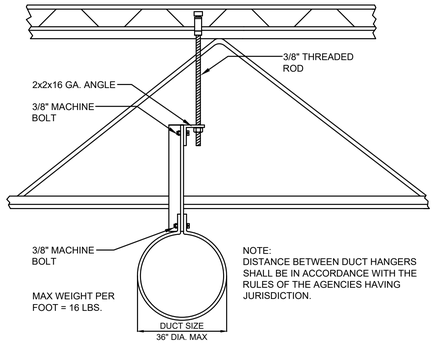
NOTES:
1. PROVIDE AT FLEXIBLE DUCT CONNECTION METAL OR "PANDUIT" DRAWBAND ON THE INTERIOR FLEXIBLE DUCT HELIX. SECURE THE INSULATION OVER THE DRAWBAND WITH AN ADDITIONAL DRAWBAND.
2. PROVIDE BEADING ON ROUND METAL DUCT 12" OR LARGER IN DIAMETER.
3. PROVIDE MINIMUM 4" COLLARS FOR ATTACHMENT OF THE FLEXIBLE DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS.
4. BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

B2 SUPPLY DIFFUSER
NTS



NOTES:
1. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

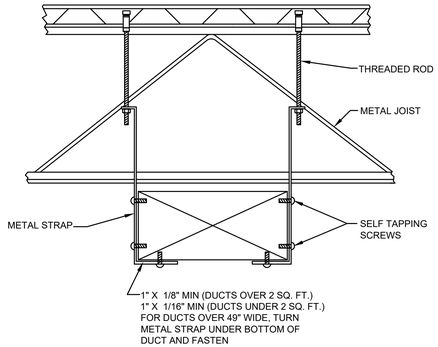
A4 MANUAL DAMPER DETAIL
NTS



NOTE:
DISTANCE BETWEEN DUCT HANGERS SHALL BE IN ACCORDANCE WITH THE RULES OF THE AGENCIES HAVING JURISDICTION.

DIAMETER INCHES	SPIRAL SEAM DUCT	DUCT STEEL	FITTINGS STEEL
THROUGH 12	MIN. GALV. SHT. GAUGE	MIN. GALV. SHT. GAUGE	MIN. GALV. SHT. GAUGE
13 THROUGH 18	26 (0.019 IN.)	26 (0.022 IN.)	26 (0.022 IN.)
19 THROUGH 28	26 (0.022 IN.)	24 (0.028 IN.)	24 (0.028 IN.)
29 THROUGH 36	24 (0.028 IN.)	22 (0.034 IN.)	22 (0.034 IN.)
37 THROUGH 52	22 (0.034 IN.)	20 (0.040 IN.)	20 (0.040 IN.)
	20 (0.040 IN.)	18 (0.052 IN.)	18 (0.052 IN.)

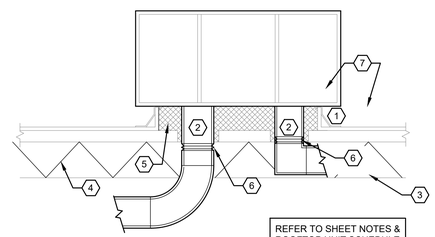
A3 ROUND DUCT HANGING DETAIL
NTS



MAX. SIDE INCHES	RECTANGULAR DUCTS	ALUMINUM
THROUGH 12	MIN. GALV. SHT. GAUGE	MIN. B & S GAUGE
13 THROUGH 30	26 (0.022 IN.)	24 (0.020 IN.)
31 THROUGH 54	24 (0.028 IN.)	22 (0.025 IN.)
55 THROUGH 84	22 (0.034 IN.)	20 (0.032 IN.)
OVER 84	20 (0.040 IN.)	18 (0.040 IN.)
	18 (0.052 IN.)	16 (0.051 IN.)

A2 DUCT SUPPORT DETAIL
NTS

2. PROVIDE BEADING ON ROUND METAL DUCT 12" OR LARGER IN DIAMETER.
3. PROVIDE MINIMUM 4" COLLARS FOR ATTACHMENT OF THE
4. FLEXIBLE DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS. BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.



REFER TO SHEET NOTES & ROOFTOP UNIT SCHEDULE ON SHEET M101 AND M102.

NOTES:
1. SET ROOF CURB ON STRUCTURAL STEEL - SHIM DEAD LEVEL. SECURE ROOF CURB TO METAL DECK AND A/C UNIT TO ROOF CURB. T.G.C. SHALL COORDINATE STRUCTURAL CONNECTION OF UNIT WITH MANUFACTURER. PROVIDE RFI PRIOR TO INSTALLATION AS REQUIRED FOR ANY STRUCTURAL TIE DOWN DETAILS REQUIRED BY JHA.
2. TRANSITION TO CONNECTION SIZES IN DUCT RISE, REFER TO PLANS FOR SIZES.
3. 1" ACOUSTIC LINED IN SUPPLY AND RETURN DUCTS FROM FAN DISCHARGE TO POINT INDICATED ON MECHANICAL DRAWINGS (10'-0" MIN.). PAINT DUCTWORK TO MATCH CEILING. REFER TO ARCHITECTURAL DRAWINGS FOR COLOR SCHEME.
4. REFER TO STRUCTURAL DRAWINGS FOR JOIST LOCATIONS, SIZES, AND DIRECTION.
5. INSULATED ROOF CURB.
6. FLEXIBLE CONNECTION - TYPICAL.
7. COPPER CONDENSATE DRAIN WITH CLEANOUT AND 4" DEEP SEAL TRAP. DISCHARGE TO SPLASH PAD ON ROOF WHERE PERMITTED, OR THRU CURB AND DOWN TO LAVATORY P-TRAP OR MOP SINK.
8. 2-POSITION (OPEN/CLOSED) OPPOSED BLADE BACKDRAFT DAMPER. DAMPER TO OPEN WHEN UNIT IS RUNNING AND CLOSE WHEN UNIT SHUTS OFF. ACUATOR SHALL FAIL CLOSED.

A1 RTU DETAIL
NTS

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SOUTH MERIDIAN & 43RD AVE SE
4227 S MERIDIAN SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y
PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

CLAYTON LUCAS — STATE OF WASHINGTON — 23058582 — REGISTERED PROFESSIONAL ENGINEER
11/26/2024

PRCTI20241902

DATE: 11.11.2024

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9096 EAST BAHIA DRIVE
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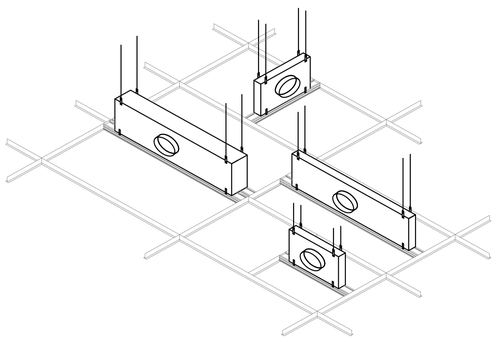
GEMINI ENGINEERING GROUP
101 Nightlinger Lane
Millsap, TX 76066
(817) 901-5191

##	DESCRIPTION	DATE

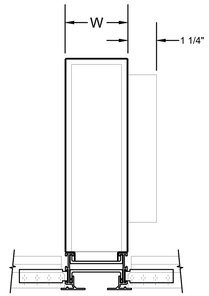
DATE: 11.11.2024
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MECHANICAL DETAILS

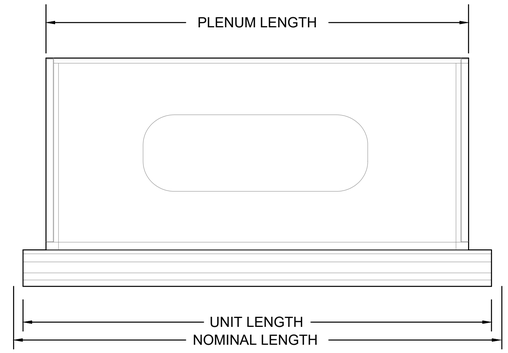
M501



C4 PLENUM HANGING DETAIL
NTS



C3 PLENUM SECTION - BORDER TYPE 66
NTS



C2 PLENUM ELEVATION - BORDER TYPE 66
NTS

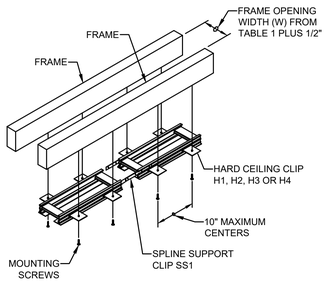
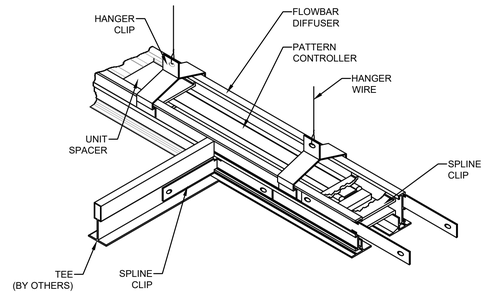
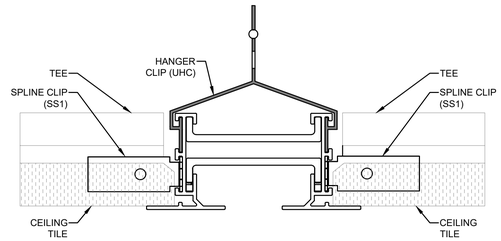


TABLE 1 - FRAME OPENING DIM	
FLOW BAR MODEL	FRAME OPENING WIDTH (W)
	1-SLOT
FL-10	3 1/4"
FL-15	4 1/4"
FL-20	5 1/4"

B4 HANGING DETAIL
NTS



B3 HANGING DETAIL - BORDER TYPE 66
NTS



B2 CEILING TO CEILING - BORDER TYPE 66
NTS

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DESIGN TYPE: E1Y

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CLAYTON LUCAS
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11/26/2024

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(817) 901-5191

##	DESCRIPTION	DATE

DATE: 11.11.2024
DRAWN BY: HO

MECHANICAL DETAILS

M502

MECHANICAL COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1 — Administered by: ©2024 NEEA, All rights reserved

Project & Applicant Information	**Project Title**	T-Mobile 8022 - 2021 WSEC	For Building Department Use: **Date: Nov 15, 2024**
	Project Address	4227 S Meridian Suite E Puyallup, WA 98373	
	Applicant Name	Clayton Lucas, P.E.	
	Applicant Phone	817-901-5191	
	Applicant Email	clucas@gegmep.com	

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

General Occupancy	All Commercial		**General Building Use Type**	Retail, Strip Mall		**Building Cond. Floor Area**	3,263
General Project Types	Alteration	**New Building or Addition**		**Alteration Mechanical Scope**	Single Zone Systems & Equipment	**Project Cond. Floor Area**	3,263
		Mechanical Scope				**Floors Above Grade**	1
						Compliance Method	General Prescriptive
Mechanical Project Description	Interior renovation of an existing retail space. New HVAC unit and ductwork to be provided.						

Mechanical Compliance Scope and Method	**Project Type**	**Mechanical Scope**	**Economizer Exception(s) Applied?**	**DOAS Ventilation Provided?**	**Higher Equipment Efficiency Option Applied?**	**Equipment Efficiency Compliance Verification**
	Alteration	Single Zone Systems & Equipment	No	Yes	NA	**COMPLIES**
Additional Energy Efficiency (AEC) Measures Included	No mechanical additional energy efficiency measures included in project		**Load Management (LDM) Measures Included**		No mechanical load management measures included in project	
Additional Efficiency Credits Included (AEC)						
Does building include occupancy classifications requiring DOAS?	Yes		**Does project include DOAS equipment?**			Yes
Based on project scope do TSPR requirements apply?	Yes		**Do all systems comply with Appendix D standard reference design or qualify for an exception to TSPR?**			Yes

Scope & Space Conditioning	**ALTERATION - SINGLE ZONE SYSTEMS & EQUIPMENT**	**Compliance Verification**	**COMPLIES**

Mechanical Requirements List, pg 1 of 32

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 — Administered by ©2024 NEEA, All rights reserved
The following information is necessary to check a mechanical permit application for compliance with the mechanical systems and equipment requirements in the Washington State Energy Code, Commercial Provisions.
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

Project:
T-Mobile 8022 - 2021 WSEC
4227 S Meridian
Suite E
Puyallup, WA 98373

Date: 2024-11-15

Applies	Code Section	Code Provision	Compliance Information Required In Permit Documentation	Location in Documents	Building Department Notes
SCOPE					
NA	C103.6.3	Construction documents - General	For a shell & core or tenant space (first build-out) project, indicate if there is no mechanical scope included in the project.		
YES	C103.1	Construction documents - General	For an alteration project, indicate if there is no mechanical scope included in the project.	M101, M102	
PERFORMANCE CRITERIA & SYSTEM DESIGN					
NA	C403.1	Exempt process equipment	Identify equipment used by manufacturing, industrial or commercial processes that are not for space conditioning or maintaining comfort and amenities for occupants; identify provisions applicable to this equipment per C403.1 exception		
NA	C403.1.1	HVAC total system performance ratio (TSPR)	For systems serving office (including medical office), retail, library, or education occupancies, or serving R-2 dwelling units or common areas, provide a TSPR report that demonstrates the proposed design ratio is equal to or greater than the standard reference design ratio, or exception applied		
YES	C403.1.2	Calculation of heating and cooling loads	Provide load calculations in accordance with ASHRAE Std 183 or equivalent, using design parameters per C302 and Appendix C; include load adjustments to account for energy recovery	M102	
NA	C403.1.3	Data centers	Provide documentation that demonstrates that data center systems comply with the maximum allowed Design MLC and Annualized MLC per ASHRAE 90.4-2019.		
NA	C403.2.1 C403.4.2.2	Zone isolation	If there are HVAC zones that are intended to be occupied non-simultaneously, identify isolation zone areas on plans; if multiple zones intended to be occupied simultaneously will be combined into a single isolation zone, include on plans that the combined zone area does not exceed 25,000 sf and does not include more than one floor; or exception applied		
NA	C403.2.1 C403.4.2.2	Zone isolation	Indicate locations of associated zone isolation dampers in HVAC and DOAS distribution systems and exhaust systems		
NA	C403.2.1 C403.4.2.2	Zone isolation	Refer to HVAC Controls section in Requirements List for applicable automatic setback and shutdown controls requirements		

Mechanical Requirements List, pg 2 of 32

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 — Administered by ©2024 NEEA, All rights reserved
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EQUIPMENT SELECTION & PERFORMANCE				
NA	C403.3.2.6	Electric heating / cooling equipment	Verify all packaged and split electric equipment with > 6,000 Btu/h cooling capacity and any amount of heating is a heat pump with reverse-cycle defrost and operates in heat pump mode when outdoor air temperature is > 25 degree F; include in equipment schedules	
NA	C403.3.2.6	Electric heating / cooling equipment	Verify electric heat in the main supply duct before VAV boxes served by cooling only systems > 6,000 Btu/h is a heat pump with reverse-cycle defrost and operates in heat pump mode when outdoor air temperature is > 25 degree F; include in equipment schedules.	
YES	C401.3 C403.1.4	HVAC Heating Fuel	For all heating equipment, identify whether it qualifies for the C403.1.4 general prescriptive path, a C403.1.4 exception, or for the C401.3 Fossil Fuel Heating path; for equipment qualifying for the C403.1.4 general prescriptive path by exception, document the exception and provide supporting information	M102
YES	C401.3 C403.1.4 C406.1	HVAC Heating Fuel	For projects with equipment utilizing the C401.3 Fossil Fuel Heating path, provide an accounting of the total heating capacity and the C401.3 equipment heating capacity for each distinct area utilized in the C406 calculation.	M102
NA	C403.1.4	HVAC Heating Fuel, exception 2 Dwelling and sleeping units	To qualify for exception 2, provide a list of each separate space in the dwelling or sleeping unit, indicate the number of exterior walls the space has, the presence of fenestration, and the allowed watts; document the heat provided in each space is below the allowed capacity in the space	
NA	C403.1.4	HVAC Heating Fuel, exception 5 Air-to-air heat pumps	To qualify for exception 5, provide documentation that the heat pump is sized to meet the heating load at an outdoor air temperature ≤ 32°F and has a ratio of heating capacity at 47°F to supplemental resistance heat capacity ≥ 2.0 in zone 4 and ≥ 1.0 in zone 5; indicate unit control by either a thermostat designed for heat pump use, a multistage thermostat with an outdoor air temperature thermostat wired to energize supplemental heat only on the last stage or heating and when the outdoor air temperature is ≤32°F, or equipment is NAECA rated with integral control	

Mechanical Requirements List, pg 3 of 32

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 — Administered by ©2024 NEEA, All rights reserved
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NA	C403.1.4	HVAC Heating Fuel, exception 6 Air-to-water heat pumps	To qualify for exception 6, provide documentation that building heating is provided by air-to-water heat pumps with a heating capacity ≥75% of the design heating load at 2°F; indicate controls configured to lock out supplemental heat when the outdoor air temperature is ≥36°F unless the hot water supply set point has not been maintained for 20 minutes; indicate controls configured to use the compressor as the first stage of heating down to the compressor minimum rated temperature except during start up and defrost	
NA	C403.1.4	HVAC Heating Fuel, exception 7 Ground source heat pumps	To qualify for exception 7, provide documentation building heating provided by ground source heat pumps; ; indicate controls configured to lock out supplemental resistance heat when the source-side entering water temperature is ≥42°F unless the hot water supply set point has not been maintained for 20 minutes; indicate controls configured to use the compressor as the first stage of heating; indicate the ground source heat exchanger shall be sized so heat pump annual output is ≥70% for the total annual heating output based upon the final year of a 30-year simulation using IGSHPA listed software	
NA	C403.1.4	HVAC Heating Fuel, exception 8 Small systems	To qualify for exception 8, document the capacity or area served for the electric resistance and fossil fuel systems and demonstrate that it is ≤ 5% of the building total heating capacity or area	
NA	C401.3.6	Electrification readiness	For all equipment following the fossil fuel path, indicate on plans that spare electrical branch circuit and service entrance conduit is installed and sized to support future conversion of fossil fuel heaters to heat pumps; indicate on plans additional room in the electric room and transformer rooms and vaults be provided and sized to accommodate future service upgrades for conversion of all fossil fuel equipment to heat pumps.	
YES	C403.3.1	Equipment and system sizing	Indicate that output capacities of heating and cooling equipment and systems are no greater than the smallest available equipment size that exceeds the calculated loads; note exceptions applied	M102
YES	C403.3.2 C403.9.1	HVAC equipment performance requirements (efficiency)	Provide equipment schedules on plans and in WSEC mechanical equipment compliance reports; indicate equipment type, calculated loads, capacity, rated and WSEC minimum efficiencies for all heating and cooling equipment; include supply and ventilation air cfms and operating hours for all air systems; identify heating and cooling equipment that does not have a corresponding WSEC minimum efficiency (manufacturer rated)	M102

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NA	C405.8	Electric motor efficiency	List all motors ≥ 1/12 hp (that are not integral to a rated piece of equipment) in the mechanical or electrical equipment schedules on plans; indicate motor type and applicable efficiency table, hp, rpm, number of poles and rated efficiency, or exception applied	
NA	C403.3.2.1	Gas and oil-fired forced air furnaces and unit heaters	For gas and oil fired forced air furnaces with capacity ≥ 225,000 Btu/h and all unit heaters, indicate in equipment schedule intermittent ignition or IID, flue or draft damper, and rated jacket loss	
NA	C403.3.3	Hot gas bypass limitation for DX cooling equipment	For cooling equipment with hot gas bypass, provide either multiple step unloading or continuous capacity modulation; indicate bypass capacity per Table C403.3.3	
NA	C403.3.2.7	Humidification	For cooling systems with humidification equipment that are also required to have air economizer, indicate humidifier is adiabatic (direct evaporative or fog atomization), or exception applied	
NA	C403.3.2	Hydronic equipment	Refer to Requirements List section Hydronic Systems - Equipment Selection & Performance for selection criteria specific to chillers and boilers	
NA	C403.9	Heat rejection equipment	Refer to Requirements List section Heat Rejection Systems - Equipment Selection & Performance for selection criteria specific to cooling towers, dry coolers and condensers (air-cooled and evaporative)	
NA	C403.13	Dehumidification in spaces for plant growth	Indicate dehumidification equipment serving plant growth spaces and which C403.13 compliance option is met	
EQUIPMENT SELECTION & PERFORMANCE - DEDICATED OUTSIDE AIR SYSTEMS (DOAS)				
NA	C403.3.5.5 C403.7.3	DOAS supplemental heating and cooling	If DOAS has heating capability, indicate heating controlled to limit supply air to ≤ 55°F. If heating is used for defrost control, indicate heat is to be locked out when outdoor air temperature is ≤ 35°F, modulates to 10% of peak capacity. Provide sizing calculations that show heating capacity sized at design temperatures to prevent damage to unit and heat supply air ≤ 55°F.	
NA	C403.3.5.5	DOAS supplemental heating and cooling	If DOAS has cooling capability, indicate cooling coil is used only for dehumidification only, is sized to meet the peak dehumidification requirement at design conditions, and is controlled to maintain supply air or zone relative humidity.	

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YES	C403.3.5 C403.3.5.4	Dedicated outdoor air systems	For buildings with occupancies required to comply with the DOAS provisions per Table C403.3.5, identify on plans all occupancies in the building and indicate which occupied spaces are required to have ventilation air delivered by a DOAS; or exception applied	M101	
NA	C403.3.5 C403.3.5.4	Dedicated outdoor air systems	If natural ventilation exception is applied, identify these spaces on plans; indicate operable window area complies with IMC Section 402; provide documentation describing how required ventilation will be provided during all occupied hours, including during inclement weather		
NA	C403.3.5 C403.3.5.4	Dedicated outdoor air systems	If high efficiency VAV exception is applied, identify these spaces on plans; refer to Single Zone VAV section for Groups A-1, A-2 and A-3 occupancy classifications, or Multiple Zone VAV for other than Groups A-1, A-2 and A-3 (per Table C403.3.5)		
NA	C403.3.5 C403.3.5.6	Dedicated outdoor air systems	If compliance with the DOAS provisions is deemed to be impractical, provide documentation that demonstrates the alternate design strategy applied that achieves a comparable level of energy efficiency, as pre-approved by the AHJ		
NA	C403.3.5	Dedicated outdoor air systems	Refer to Requirements List section a/for High Efficiency Multiple-Zone VAV Systems exception to C403.3.5 DOAS		
NA	C403.3.5	Dedicated outdoor air systems	Refer to Requirements List section a/for High Efficiency Multiple-Zone Air Systems for High Efficiency Single-Zone VAV Systems exception to C403.3.5 DOAS		
NA	C403.3.5.1	DOAS energy recovery method and effectiveness	For all DOAS systems, indicate exhaust air ER method and basis of rated effectiveness (sensible or latent); indicate ≥ 68% sensible or ≥ 60% enthalpy recovery ratio at design conditions; or exception applied		
NA	C403.3.5.2	DOAS fan power	For DOAS with no fans or fan arrays with input power ≥ 1kW, indicate total system fan power does not exceed 1 watt per cfm		
NA	C403.3.5.2	DOAS fan power	For DOAS with any fans or fan arrays with input power ≥ 1kW, indicate total system fan power complies with fan power limitation per Section C403.8.1		
NA	C403.3.5.3	Heating / cooling system fan controls with DOAS	Indicate systems and equipment associated with the delivery of zone level heating and cooling (fans, hydronic pumps, primary air dampers, etc.) are configured to shut off, and central equipment is configured to turn down, when there is no call for heating or cooling in the zone they serve		

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SOUTH MERIDIAN & 43RD AVE SE

4227 S MERIDIAN SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y

PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

CLAYTON LUCAS — STATE OF WASHINGTON — 23036882 — REGISTERED PROFESSIONAL ENGINEER
11/26/2024

PRCTI20241902

DATE: 11.11.2024

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##	DESCRIPTION	DATE

DATE: 11.11.2024
DRAWN BY: HO

ENERGY CALCULATIONS

M601

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NA	C403.3.5.3	Heating / cooling system fan controls with DOAS	If applying Exception to heating / cooling fans used for air mixing in the space during deadband periods, include fan watts per cfm in equipment schedule		
YES	C403.3.5.4	Decoupled DOAS supply air	Indicate method of delivery of DOAS supply air to the occupied space (directly into space, downstream of terminal heating / cooling coils); or exception applied	M101	
NA	C403.6.5	Multiple zone DOAS	For DOAS serving multiple zones with DDC controls, indicate controls configured to reduce the volume of outdoor air in each zone independently when the zone is unoccupied; or exception applied		
ADDITIONAL ENERGY EFFICIENCY MEASURE - DEDICATED OUTSIDE AIR SYSTEMS (DOAS)					
NA	C406.2.2.6	High performance DOAS - Energy recovery effectiveness and fan power	For all building occupancies, to comply with this additional efficiency credit, demonstrate compliance with C403.3.5		
NA	C406.2.2.6	High performance DOAS - Energy recovery effectiveness and fan power	Indicate energy recovery sensible effectiveness of all DOAS is ≥ 80%		
NA	C406.2.2.6	High performance DOAS - Energy recovery effectiveness and fan power	For each system, indicate that total system fan power does not exceed 0.769 watts per cfm or is ≤ 80% of the fan power allowance for a constant volume system calculated per C403.8.1		
FANS AND FAN CONTROLS					
NA	C403.8.1.2	Fan power limitation	For all HVAC fan systems associated with conditioned space and containing 1 or more fans with a total electrical input ≥ 1 kW, shall provide the total nameplate hp and the fan system electrical input power calculated per C403.8.1.2 in equipment schedules on project plans		
NA	C403.8.1.1	Fan power limitation	For all HVAC and DOAS systems associated with conditioned space with 1 or more fans with electrical input power ≥ 1 kW, provide fan system electrical input power calculations per Section C403.8.1.2 to verify it complies with fan power budget per Section C403.8.1.1		
NA	C403.8.2	Motor nameplate hp	For HVAC systems with total fan motor nameplate hp > 5hp, indicate fan motors specified are the smallest available motor hp size greater than fan bhp, note exceptions applied		

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NA	C405.8	Fractional hp fan motors	For all fractional hp fan motors (1/12 - < 1 hp), indicate that motors comply with applicable WSEC efficiency tables; if motor type is not listed in an efficiency table, indicate whether fan has an electronically commutated motor, has motor rated efficiency of at least 70%, or exception applied		
NA	C403.8.3	Fan efficiency	For individual fans or fan arrays, indicate in equipment schedule that rated FEI for all applicable fans part of a variable-air volume system is ≥ 0.95 and ≥ 1.0 in all other systems, or exception applied; indicate these fans are sized at the design point of operation		
NA	C403.8.4	Low-capacity ventilation fans	For all ventilation system fans with motors ≤ 1/12 hp, indicate in equipment schedule the fan flow rate and efficacy (cfm/watt), or exception applied; refer to Table C403.8.4		
NA	C403.2.4	Variable flow capacity - fans	For fan motors ≥ 5 hp, indicate method of variable flow control (VSD or equivalent method) in equipment schedule, or exception applied		
NA	C403.8.5.1	Fan airflow control	For DX air handling units with cooling capacity ≥ 42,000 Btu/h and evaporative and chilled water air handling units with fan ≥ 0.25 hp, indicate whether system is single zone or multiple zone and related control method (cooling capacity reduced in response to space temperature, space temperature is controlled by modulating supply airflow, or both)		
NA	C403.8.5.1	Fan airflow control	For mechanical cooling systems (includes DX and chilled water coils) that control cooling capacity in response to space temperature - Provide a minimum of two stages of fan control; indicate minimum fan speed is ≤ 66% of full speed drawing ≤ 40% of full speed fan power during periods of low cooling or ventilation only; or exception		
NA	C403.8.5.1	Fan airflow control	For other mechanical cooling systems (includes DX and chilled water coils) that control space temperature by modulating airflow (in lieu of, or in addition to, controlling capacity in response to space temperature) - Provide fan controls for modulating supply airflow; indicate minimum fan speed is ≤ 50% of full-speed drawing ≤ 30% of full speed fan power during periods of low cooling or ventilation only; or exception applied		
NA	C403.8.6	Large-diameter ceiling fans	Where provided, indicate large-diameter ceiling fans to be tested and labeled in accordance with AMCA 230.		
ADDITIONAL ENERGY EFFICIENCY MEASURE - IMPROVED HVAC TSPR					

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NA	C406.2.2.1	Improved HVAC TSPR	To comply with this additional efficiency credit, indicate systems are required to provide a TSPR report per C403.1.1; demonstrate that the proposed design ratio is at minimum 5% higher than the standard reference design ratio; for projects prorating the credit the TSPR report must show the proposed design exceeds the claimed increase used for proration		
ADDITIONAL ENERGY EFFICIENCY MEASURE - MORE EFFICIENT HVAC EQUIPMENT COOLING AND FAN PERFORMANCE					
NA	C406.2.2.2	More efficient cooling and fan performance	To comply with this additional efficiency credit, provide a list of all cooling equipment in the building or credit area and calculations that demonstrate (based on cooling output capacity) that 90% or more of all HVAC cooling equipment serving conditioned floor areas are listed in the tables of Section C403.3.2		
NA	C406.2.2.2 C406.2.2.2.1	More efficient cooling and fan performance	In addition to system selection requirement, demonstrate that 90% or more of all HVAC cooling capacity serving conditioned floor areas in the building or credit area is delivered by equipment at least 5% better than the listed WSEC efficiency, seasonal or annualized where available other wise use full load efficiency		
NA	C406.2.2.2 C406.2.2.2.1	More efficient cooling and fan performance	For projects prorating the credit in accordance with Equation 4-15 include calculations for equipment representing at least 90% of the cooling capacity in the building or credit area that demonstrate the capacity weighted average better than code efficiency; for equipment with multiple requirements the seasonal or annualized efficiency shall be used		
NA	C406.2.2.2 C406.2.2.2.3	More efficient cooling and fan performance	In addition to system selection and calculation requirements, if fan energy is not included in equipment rating or if it is but the fan has been upsized from rated conditions, demonstrate fan power is ≤ 95% of the allowed fan power by Section C403.8.1		
ADDITIONAL ENERGY EFFICIENCY MEASURE - MORE EFFICIENT HVAC EQUIPMENT HEATING PERFORMANCE					
NA	C406.2.2.3	More efficient HVAC equipment heating performance	To comply with this additional efficiency credit, provide a list of all heating equipment in the building or credit area and calculations that demonstrate that 90% or more of all HVAC heating capacity serving conditioned floor area is delivered by equipment listed in the tables of Section C403.3.2		

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NA	C406.2.2.3 C406.2.2.3.2	More efficient HVAC equipment heating performance	In addition to system selection requirement, demonstrate that 90% or more of all HVAC heating capacity serving the building or credit area is delivered by equipment at least 5% better than the listed WSEC efficiency, seasonal or annualized where available other wise use full load efficiency		
NA	C406.2.2.3 C406.2.2.3.2	More efficient HVAC equipment heating performance	For projects prorating the credit in accordance per Equation 4-16 include calculations for equipment representing at least 90% of the heating capacity serving the building or credit area that demonstrate the capacity weighted average better than code efficiency; for equipment with multiple code requirements the seasonal or annualized efficiency shall be used		
NA	C406.2.2.3 C406.2.2.3.2	More efficient HVAC equipment heating performance	In C402.1.1 low energy and C402.1.1.2 semi-heated spaces demonstrate that 90% of the heating capacity in the building or area is provided by electric infrared or gas-fired radiant equipment for localized heating applications.		
VENTILATION, EXHAUST & ENERGY RECOVERY					
NA	C403.7.1.2	Demand control ventilation design	For each required demand control ventilation system, indicate outdoor air automatically changes in response to a CO2 sensor and utilizes a variable speed fan control to reduce systems flow; or exception applied		
NA	C403.2.2.1	Ventilation	If mechanically delivered, indicate that ventilation systems are configured to provide not more than 150% of, but at least the minimum required volume of outdoor air to each zone per IMC, ASHRAE 62.1 or other applicable code (WAC, OSHA, etc.); or exception applied		
NA	C403.2.2.1	Ventilation	If delivered via natural ventilation, identify required elements per IMC including: minimum openable area in the outdoors or qualifying adjoining spaces; criteria for ensuring required ventilation is provided during all occupied hours of the year (including during inclement outdoor conditions)		
NA	C403.2.2.2	Exhaust	Indicate that exhaust systems are configured to provide not more than 150% of, but at least the minimum required volume from each zone per IMC, or other applicable code (WAC, OSHA, etc.); or exception applied		
NA	C403.4.2.4	Exhaust system off-hour controls	Refer to Requirements List section HVAC Controls for off-hour controls requirements for exhaust systems		

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NA	C403.7.6.1	Balanced ventilation for Group R-2 occupancy	For Group R-2 dwelling and sleeping units, indicate that each habitable space is provided with a balanced ventilation system; indicate system is provided with energy recovery with ≥ 60% sensible recovery effectiveness		
NA	C403.7.1.1	Demand control ventilation	Identify spaces with ventilation provided by single zone system with air economizer; for each space indicate controls are configured to provide demand controlled ventilation or provide supporting documentation for applied exception		
NA	C403.7.1.1	Demand control ventilation	Provide list of spaces with IMC ventilation occupant load and the occupant outdoor airflow rate listed; for spaces with occupant load ≥ 15 people/1,000 sf per IMC or occupant air flow rate ≥ 15 cfm / person indicate controls are configured to provide demand controlled ventilation or provide supporting documentation for applied exception		
NA	C403.7.2	Occupancy sensors	For gyms, classrooms, auditoriums, conference rooms and other spaces with occupant load ≥ 25 people/1,000 s² per IMC, that have an area > 500 s², indicate occupancy-based ventilation air control when space is unoccupied and method (closes outdoor air damper or shuts-off equipment); or alternate means provided to automatically reduce ventilation air when space is partially occupied; or exception applied		
NA	C403.7.3	Ventilation air heating control	For ventilation air systems with supplemental heating capacity that operate in conjunction with heating and cooling systems, indicate that ventilation air is tempered (via heating or heat recovery) to no greater than 55° F when the space conditioning system is in cooling mode		
NA	C403.7.4.2	Ventilation controls for Group R-1 guestrooms	Indicate if mechanical and exhaust isolation for each guest room and automatic controls that are configured to turn off ventilation and exhaust air when each room is unoccupied		
NA	C403.8.4	Group R occupancy exhaust fan efficacy	Refer to Requirements List section Fans & Fan Controls		
NA	C403.7.5 C403.7.5.1	Enclosed loading dock ventilation	For enclosed loading docks, indicate ventilation / exhaust system method of activation (gas detection system for CO and NO2, or occupancy sensors), and control method (staged or modulating); if total ventilation system fan motor nameplate horsepower is > 5 hp, indicate VSD or equivalent motor drives		

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NA	C403.7.5 C403.7.5.2	Enclosed parking garage ventilation	For enclosed parking garages, indicate ventilation / exhaust system activated by gas detection system for CO and NO2, and control method (staged or modulating); or exception applied; if total ventilation system fan motor nameplate horsepower is > 5 hp, indicate VSD or equivalent motor drives		
NA	C403.7.6.2	Ventilation / exhaust systems energy recovery	For systems with design ventilation air > 5,000 cfm, or design supply air cfm and % ventilation air exceeding the values in Tables C403.7.6(1) or (2), indicate exhaust air energy recovery method; or exception applied with supporting calculations		
NA	C403.7.6.2	Ventilation / exhaust systems energy recovery	For rooms served by multiple systems with aggregate design ventilation air > 5,000 cfm, or aggregate design supply air cfm and % ventilation air exceeding the values in Tables C403.7.6(1) or (2), indicate exhaust air energy recovery method; or exception applied with supporting calculations		
NA	C403.7.6.2	Ventilation / exhaust systems energy recovery	Indicate energy recovery rated sensible recovery effectiveness ≥ 68% or a enthalpy recovery ratio ≥ 60%		
NA	C403.7.7.1 C403.7.7.1.2 C403.7.7.1.3	Kitchen exhaust hood system	Indicate on plans the type, duty, UL rating and exhaust airflow rate of each kitchen hood		
NA	C403.7.7.1 C403.7.7.1.2 C403.7.7.1.3	Kitchen exhaust hood system	Provide calculations that show a balanced accounting of total kitchen exhaust (include all hoods) with % of: supply air, transfer air from adjacent spaces, and make-up air		
NA	C403.7.7.1 C403.7.7.1.2 C403.7.7.1.3	Kitchen exhaust hood system	For hoods with make-up air drawn directly into the exhaust air cavity of each hood, indicate that replacement air does not exceed 10% of hood exhaust airflow rate		
NA	C403.7.7.1.1 C403.7.7.1.2 C403.7.7.1.3	Kitchen exhaust hood system	For kitchens with total hood exhaust exceeding 2,000 cfm, indicate that each hood is UL 710 rated and maximum exhaust airflow rate of each hood is per Table C403.7.7.1.2; or exception applied		
NA	C403.7.7.1.1 C403.7.7.1.2 C403.7.7.1.3	Kitchen exhaust hood system	For kitchens with total hood exhaust exceeding 2,000 cfm, indicate demand control kitchen ventilation configured to a minimum 50% reduction in exhaust and replacement air system flows in response to alliance operation; or exception applied		
NA	C403.7.7.2	Laboratory exhaust systems energy recovery	For buildings with total lab exhaust > 5,000 cfm, indicate method of energy recovery used to pre-condition laboratory make-up air; energy recovery effectiveness (min 25°F increase in outside air temperature); or alternative method per exception (VAV exhaust, semi-conditioned makeup, or CERM calculation)		

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NA	C403.7.7.3	Transfer air	For spaces where conditioned supply air is utilized as transfer air to balance mechanical exhaust, indicate basis of transfer airflow (supply required to meet loads, health/safety requirement, air that would normally be exhausted); or exception applied		
NA	C403.7.8.1 C403.7.8.3	Shutoff dampers for building isolation	Indicate locations of outdoor air intake, exhaust and relief outlet dampers on plans; indicate whether dampers are Class 1 motorized, or gravity and exception applied (include leakage rating, cfm/s²)		
NA	C403.7.8.1 C403.7.8.3	Shutoff dampers for stairway and elevator hoisway shaft vents	Indicate location of stairway and elevator hoisway shaft vent dampers on plans; verify dampers are Class 1 motorized; or exception applied		
NA	C403.7.8.2 C403.7.8.3	Shutoff dampers for return air	Indicate locations of return air dampers that are integral to airside economizer operation; verify dampers are motorized; indicate whether dampers are Class 1, or within packaged equipment eligible for leakage rating exception (include leakage rating, cfm/s²)		
NA	C403.7.8.4	Dumper actuation	Indicate automatic controls configured to close outdoor air intake, exhaust and relief outlet dampers during unoccupied equipment operation; not including economizer cooling, night flush or IMC required outdoor air / exhaust		
NA	C403.7.8.4	Dumper actuation	Indicate method of activation of stairway and elevator hoisway shaft vent dampers (fire alarm or interruption of power)		
NA	C404.11.4	Exhaust system energy recovery for heated indoor pools and permanent spas	For buildings with pools or spas with water surface area > 200 s², indicate exhaust air energy recovery method and use of waste heat (preheat ventilation air, pool water or service hot water); or exception applied		
NA	C404.11.4	Exhaust system energy recovery for heated indoor pools and permanent spas	Indicate energy recovery system has the rated effectiveness and is configured to decrease the exhaust air temperature at design conditions by ≥ 30°F		
HVAC CONTROLS					
YES	C403.4.1	Thermostatic controls (thermostats and humidistats)	Indicate locations of thermostatic and humidity control devices and the zones they serve on plans, including perimeter system zones	M101	

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NA	C403.4.1	Thermostatic controls (thermostats and humidistats)	Where adjacent (neighboring) zones are controlled by separate thermostats (including perimeter systems used to offset heat gain or loss), and are connected by permanent openings > 10% of either zone of area, indicate controls configured to prevent adjacent zones from operating in conflicting modes (one in heat, either in cool); applies to adjacent perimeter zones, adjacent nonperimeter zones, and adjacent perimeter and nonperimeter zones		
NA	C403.4.1	Thermostatic controls (thermostats and humidistats)	If applying Exception 2 to interior zones adjacent to perimeter zones, indicate that setpoints and deadband settings in these zones are coordinated so cooling in an interior zone does not occur until the temperature in that zone is 5°F higher than the adjacent perimeter zone temperature in heating		
NA	C403.4.1	Thermostatic controls (thermostats and humidistats)	If applying Exception 3 for DOAS, indicate supply air temperature heating setpoint is ≤ 65°F and cooling setpoint is ≥ 72°F; or method of supply air temperature reset	M101	
NA	C403.4.1.1	Heat pump supplementary heat	Indicate staged heating operation with compression as the first stage of heating and supplemental heating controlled with outdoor lock-out temperature set to 40°F or less, or indicate exception applied and specify equipment meeting the exception requirements		
NA	C403.4.1.2	Deadband	Indicate zone thermostatic controls configured with 5°F minimum deadband for systems that control both heating and cooling		
NA	C403.4.1.3	Setpoint overlap restriction (thermostats)	If separate heating and cooling thermostatic control devices are used to serve a zone, indicate locations of both thermostatic control devices and the zone they serve on plans		
NA	C403.4.1.3	Setpoint overlap restriction (thermostats)	Indicate a limit switch, mechanical stop or DDC control with programming to prevent simultaneous heating and cooling		
NA	C403.4.1.4	Heated or cooled vestibules	Indicate thermostatic controls within heating or cooled vestibules with a heating setpoint ≤ 60°F and cooling setpoint ≥ 85°F; indicate controls are configured to turn off heating when outdoor temperature is > 45°F; or note exception applied		
NA	C403.4.1.4	Heated air curtains	Indicate controls are configured to turn off air curtain heating when outdoor temperature is > 45°F		

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NA	C403.4.1.6	Door switches for HVAC system thermostatic control	Doors required to have opening switches for HVAC thermostatic control to the outdoors from a conditioned space and are > 48 s², indicate automatic controls configured to setback the HVAC system(s) when the door is open for > 5 minutes; indicate method of HVAC system setback control (turns off the HVAC system or resets the heating setpoint to 55°F and cooling setpoint to 85°F), or exception applied (either C402.5.11 or C403.4.1.6)		
YES	C403.4.2 C403.4.2.1 C403.4.2.2	Automatic setback and shutdown	Indicate zone thermostatic controls configured with required automatic setback and manual override functions, setback temperatures, and control method (automatic time clock or 7 day programmable controls); note exceptions applied	M101	
YES	C403.4.2.3	Automatic (optimum) start and stop	Indicate all HVAC systems are provided with automatic start and stop controls; indicate start controls are configured to adjust the equipment start time as required to bring each area served up to design temperature just prior to scheduled occupancy; indicate stop controls are configured to reduce heating setpoint and increase cooling setpoint by at least 2°F prior to scheduled unoccupied periods	M101	
NA	C403.4.2.4	Exhaust system off-hour controls	For exhaust systems serving conditioned spaces in all occupancies other than Group R, indicate method of control and that controls are configured to turn exhaust systems on and off in concert with the ventilation air systems providing their make-up air, or exception applied		
NA	C403.4.2.5	Transfer and destratification fan system off-hour controls	For transfer fan or mixing fan systems serving conditioned spaces in all occupancies other than Group R, indicate method of control and that controls are configured to turn fans on and off in concert with the associated HVAC systems, or exception applied		
NA	C403.4.7	Combustion heating equipment	For combustion heating equipment other than boilers or radiant heaters with output capacity > 225,000 Btu/h, indicate modulating or staged combustion control		
NA	C403.4.7.1	Combustion decorative vented appliance, combustion fireplace and fire pit controls	Indicate controls that are configured to limit operation of combustion appliance, fireplace and fire pit to ≤ 1 hour without override, or that occupancy sensor controls are provided		

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NA	C403.7.4.1	Temperature setpoint controls for Group R-1 guestrooms	For hotels / motels with over 50 guest rooms, indicate automatic controls for HVAC equipment serving guest rooms are configured to setback (heating) and set-up (cooling) temperature setpoint by at least 4°F when room is rented and unoccupied, and adjust setpoint to 60°F (heating) and 80°F (cooling) when room is unrented / vacated; indicate control method - activated by room entry, occupancy sensor or networked guestroom control system		
NA	C403.7.4.2	Ventilation controls for Group R-1 guestrooms	Refer to Requirements List section Ventilation, Exhaust & Energy Recovery		
NA	C403.4.9 C403.4.10	Thermostatic controls for Group R2 / R3 dwelling units and Group R2 sleeping units	For primary space conditioning systems, indicate 5-2 programmable thermostats capable of two setback periods per day; indicate each non-primary system is provided with at minimum an adjustable thermostat, or exception applied. For all thermostats indicate purpose (heating only, cooling only, or both) and required temperature range; indicate thermostats are configured for at minimum a 5°F deadband.		
NA	C403.5.1	DX air handlers with cooling capacity ≥ 65,000 Btu/h, indicate number of cooling stages provided and method (multiple compressors and / or variable speed compressors); indicate minimum displacement (capacity reduction) as % of full load; indicate thermostats are configured with the same number of cooling stages and displacement			
NA	C403.5.1	DX air handler variable cooling control (Located under Integrated Economizer Control)	Indicate control method (cooling capacity controlled in response to space temperature, space temperature controlled by modulating supply airflow, or both)		
NA	C403.4.11.1 C403.4.11.2 C403.4.11.3	DDC system applications, controls and display	Provide central and zone level DDC controls as required based on system applications, capacity or size thresholds and other qualification per Table C403.4.11.1		
NA	C403.4.11.1 C403.4.11.2 C403.4.11.3	DDC system applications, controls and display	Identify all DDC system input / output control points in project documents		
NA	C403.4.11.1 C403.4.11.2 C403.4.11.3	DDC system applications, controls and display	Indicate control capability includes monitoring zone and system level demand for fan pressure, pump pressure, heating and cooling; indicate capability to transfer demand information from zones to air / hydronic distribution system controllers, and to central plant systems and equipment controllers		

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DESIGN TYPE: E1Y
PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

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PROFESSIONAL ENGINEER
11/26/2024

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DATE: 11.11.2024

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##	DESCRIPTION	DATE

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City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

ENERGY CALCULATIONS

M602

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NA	C403.4.11.1 C403.4.11.2 C403.4.11.3	DDC system applications, controls and display	Indicate system has the capability and is configured for trending and graphically displaying input / output points		
NA	C403.4.11.4	DDC demand response setpoint adjustment	For buildings with ≥ 780,000 Btu/h of mechanical cooling, indicate controls are configured to automatically increase the cooling setpoint and decrease the heating setpoint ≥ 2°F based upon a binary input to the control system approved by the utility		
NA	C403.4.1.7	Demand responsive controls	Indicate thermostatic controls for heating or cooling systems are provided with demand response controls are capable of increasing the cooling setpoint and decreasing the heating setpoint ≤ 4°F; indicate the controls are capable of receiving and responding automatically to a demand response signal.		
YES	C403.2.3	HVAC System Fault detection and diagnostics	For buildings ≥ 100,000 square feet, indicate HVAC systems have fault-detection and diagnostics with sensors and communications to automatically identify HVAC system faults, provide prioritized recommendations for repair, and communicate faults and recommendations to remotely located authorized personnel.	M101	
ADDITIONAL ENERGY EFFICIENCY MEASURE - DWELLING UNIT HVAC CONTROLS					
NA	C406.2.1	Dwelling unit HVAC controls	To comply with this additional efficiency credit, provide control design for a manual main control or occupancy sensor based controls, or provide control specification and product cut sheets demonstrating compliance with learning thermostat or geographic sensing options.		
ADDITIONAL EFFICIENCY CREDIT - FAULT DETECTION AND DIAGNOSTICS					
NA	C406.2.2.7	Fault detection and diagnostics	To comply with this additional efficiency credit, demonstrate HVAC controls comply with items 1 through 6 in Section C403.2.3; only buildings not required to comply with Section C403.2.3 or C403.6.10(16) can use this credit		
LOAD MANAGEMENT MEASURE - HVAC LOAD MANAGEMENT					
NA	C406.3.2	HVAC load management	To comply with this additional efficiency credit, indicate automatic controls connected to central DDC having digital input capable of being activated by external utility signal; where utility real-time demand or pricing program exists indicate system configured to utilize this signal; otherwise indicate building demand monitoring installed and controls configured to utilize demand signals		

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NA	C406.3.2	HVAC load management	Indicate electric cooling controls configured to gradually increase the cooling setpoint by at least 3°F over 3 hours during summer peak periods;, indicate electric heating controls configured to gradually decrease the heating setpoint by at least 3°F over 3 hours during winter peak periods		
DUCTWORK, SHAFTS AND PLENUMS					
YES	C403.10.1.1 C403.10.2	Duct construction	Indicate on plans that all ductwork is constructed and sealed per IMC	M101	
NA	C403.10.1.1 C403.10.2	Duct construction	For outdoor air ductwork, also indicate on plans that ductwork meets air leakage requirements per C402.5 and vapor retarder requirements per the IBC		
YES	C403.10.2.1 C403.10.2.2 C403.10.2.3	Duct pressure classifications	Identify location of low, medium and high pressure ductwork on plans	M101	
NA	C403.10.2.3	High pressure duct leakage test	Indicate high pressure duct leakage testing requirements on plans; provide test results to jurisdiction when complete		
NA	C403.10.1.1 C403.10.1.2	Duct insulation	For outdoor air ductwork located within conditioned space (upstream or downstream of shutoff damper), identify climate zone, duct air/film, and indicate ductwork insulation R-value per Table C403.10.1.1 on plans; or exception applied		
NA	C403.10.1.1 C403.10.1.2	Duct insulation	For supply and return air ductwork located within unconditioned space or outdoors, identify climate zone and indicate ductwork insulation R-value per Table C403.10.1.2 on plans; or exception applied		
YES	C403.10.1.1 C403.10.1.2	Duct insulation	For supply air ductwork located within conditioned space, identify climate zone, if design supply air temperature is < 55°F or > 105°F; indicate ductwork insulation R-value per Table C403.10.1.2 on plans; or exception applied	M101	
YES	C403.10.1.1 C403.10.1.2	Duct insulation	For return and exhaust air ductwork located within conditioned space (upstream of the shutoff damper) and downstream of an energy recovery media, indicate ductwork insulation R-value per Table C403.10.1.2; or exception applied	M101	
YES	C403.10.1.1 C403.10.1.2	Duct insulation	For exhaust and relief air ductwork located within conditioned space and downstream of the shutoff damper, indicate ductwork insulation R-value per Table C403.10.1.2; or exception applied	M101	
NA	C403.10.1.1 C402.1.3	Shaft and plenum insulation	For outdoor air shafts and plenums, indicate on plans that the R-value of insulation on these elements complies with Table C402.1.3 for steel-framed walls		

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PIPING					
NA	C403.10.3	Piping insulation	Indicate design temperature range of fluid conveyed in piping and thickness of insulation (in inches) on hydronic piping plans; or exception applied		
NA	C403.10.3.1	Protection of piping insulation	Indicate method of protection of pipe insulation from damage / degradation on hydronic piping plans		
NA	C403.10.4	HVAC refrigerant piping insulation	Indicate refrigerant piping insulation to be installed on all hot gas lines and on some liquid lines per C403.10.4; indicate insulation conductivity ≤ 0.26 Btu x in/(h x ft2 x °F)		
ECONOMIZERS					
YES	C403.5	Air economizer required	Identify all cooling systems requiring air economizer controls in equipment schedules on plans and in WSEC mechanical equipment compliance reports.	M102	
NA	C403.5	Air economizer exceptions	Indicate all systems utilizing air economizer exceptions in WSEC mechanical equipment compliance report, including those with water-side economizer in lieu of air economizer; indicate on plans and in WSEC mechanical equipment compliance report that all eligible exception(s) taken and measures to comply with exception(s)		
YES	C403.4.1 C403.5.1	Integrated economizer operation - air and water	Indicate air and water-side economizers are configured for partial cooling operation even where additional mechanical cooling is required to meet the load	M102	
YES	C403.4.1 C403.5.1	Integrated economizer operation - air and water	For DX air handlers with single or multiple stages of mechanical cooling; indicate controls are configured with air economizer as the first stage of cooling	M102	
NA	C403.4.1 C403.5.1	Integrated economizer operation - air and water	Refer to Requirements List section HVAC Controls for additional requirements for DX air handlers		
YES	C403.5.2	Economizer heating system impact - air and water	Verify control method of HVAC systems with economizers does not increase building heating energy usage during normal operation		
YES	C403.5.3.1	Air economizer capacity	Indicate modulating outdoor air and return air dampers are configured to provide up to 100% outdoor air for cooling	M102	
YES	C403.5.1 C403.5.3.2	Air economizer controls and integrated operation	Indicate that economizer controls are configured to provide partial economizer cooling when additional mechanical cooling is also required to meet the cooling load	M102	
YES	C403.5.1 C403.5.3.2	Air economizer controls and integrated operation	Indicate that control of economizer dampers is not based only on mixed air temperature; or exception applied for systems with cooling capacity ≤ 65,000 Btu/h	M102	

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YES	C403.5.3.3	Air economizer high limit controls	Indicate high limit shut-off control method and required high limit per Table C403.5.3.3	M102	
YES	C403.5.3.4	Relief of excess outdoor air	Refer to Requirements List section Ventilation, Exhaust & Energy Recovery	M102	
YES	C403.5.3.4	Relief of excess outdoor air	Indicate relief air outlets are sized and configured to relieve building air during air economizer operation to prevent building over-pressurization	M102	
YES	C403.5.3.4	Relief of excess outdoor air	Indicate relief air outlet are located to avoid recirculation into the building	M102	
NA	C403.5.4.1	Water economizer capacity	For eligible systems where water-side economizer may be provided in lieu of air economizer, indicate system is capable of 100% design cooling capacity at 50°F db / 45°F wb outdoor air temperatures; indicate if threshold for 100% design cooling capacity via economizer must be lowered to 45°F db / 40°F wb due to dehumidification requirements		
NA	C403.5.4.2	Water economizer maximum pressure drop	Indicate that the pressure drop across precooling coils and heat exchangers in water economizer systems do not exceed 15 feet (4572 mm)		
YES	C403.5.5	DX equipment economizer fault detection and diagnostics	For DX air handlers with economizer and cooling capacity ≥ 54,000 Btu/h provide a fault detection and diagnostics (FDD) system in which economizer system operation and report faults	M102	
HYDRONIC SYSTEMS - EQUIPMENT SELECTION & PERFORMANCE					
NA	C403.3.2.3	Maximum air cooled chiller capacity	For chilled water plants and buildings with > 500 tons of cooling capacity, indicate air-cooled chiller capacity is ≤ 100 tons, or exception applied		
NA	C403.3.2.2	Large capacity cooling systems	For buildings ≥ 300 tons of cooling capacity, indicate method of multi-stage or variable capacity control (VSD, multiple staged compressors, or max capacity of any single unit		
NA	C403.3.2.4	Non-standard water-cooled centrifugal chillers	For water-cooled centrifugal chillers not designed for operation at standard conditions, provide calculations documenting maximum full load and part load rated equipment performance requirements		
NA	C403.3.3	Hot gas bypass limitation for chillers	For cooling equipment with hot gas bypass, provide either multiple step unloading or continuous capacity modulation; indicate bypass capacity per Table C403.3.3		
NA	C403.4.3 C403.3.4.4	Large capacity boiler systems	For hydronic systems with only a single boiler that has > 500,000 Btu/h input capacity, indicate multi-stage or modulating burner		

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NA	C403.4.3	Large capacity boiler systems	For boiler system (single or multiple) with > 1,000,000 Btu/h input capacity, indicate turndown ratio per Table C403.3.4.4 and method (multiple single input boilers, modulating boilers, or combination)		
NA	C403.3.4.1	Large capacity boiler systems	For all boiler systems with input capacity ≥ 2,500,000 Btu/h and all systems where one stack serves 2 or more boilers with a combined input capacity ≥ 2,500,000 Btu/h, indicate combustion air positive shut-off is provided to restrict airflow through the combustion chamber during standby (e.g. flue or vent damper).		
NA	C403.3.4.2	Large capacity boiler systems	For boiler systems with combustion air fans ≥ 10 hp, indicate variable speed fan		
NA	C403.3.4.3	Large capacity boiler systems	For boiler systems with input capacity ≥ 5,000,000 and a steady state full-load combustion efficiency <90 percent, indicate combustion air volume to be automatically controlled to limit stack gas oxygen concentrations specified in Table C403.3.4.3. List exception if it applies.		
NA	C403.3.4.5 C403.3.4.5.1 C403.3.4.5.2	High capacity space heating gas boiler system (new buildings)	For gas hot water space heating systems with ≥ 1,000,000 Btu/h and ≤ 10,000,000 Btu/h capacity, indicate boiler thermal efficiency ≥ 90 percent; coils and heat exchangers sized at design conditions to have a boiler return water temperature ≤ 120°F; values and controls to ensure under all operating conditions the water temperature entering the boiler is ≤ 120°F or the supply water recirculating directly into the return system is ≤ 20 percent of design flow of the operating boilers.		
NA	C403.2.4	Variable flow capacity - pumps	For pump motors ≥ 5 hp, indicate method of variable flow control (VSD or equivalent method) in equipment schedule, or exception applied		
NA	C403.3.7	Hydronic system flow rate	Indicate chilled water and condenser water flow types and operating hours, and maximum flow rates in lieu than or equal to Table C403.3.7.		
NA	C403.3.8.1	Chilled-water coil selection	Indicate chilled-water coils sized to provide a 15°F difference between leaving and entering water temperature and a minimum 57°F leaving water temperature at design conditions., or exception applied		
NA	C403.3.8.2	Hot-water coil selection	Indicate hot-water coils sized to provide a 20°F difference between leaving and entering water temperature and a maximum 118°F entering water temperature at design conditions., or exception applied		

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NA	C403.4.12	Pressure independent control valves	For heating and cooling water coils with a design flow ≥ 5 gpm, indicate modulating pressure independent control values are provided		
HYDRONIC SYSTEMS - CONTROLS					
NA	C403.4.3	Boiler sequencing	Indicate automatic controls that sequence operation of multiple boilers		
NA	C403.4.3.2	Two-pipe changeover systems	Indicate changeover deadband is ≥ 15°F outdoor air temperature; indicate controls are configured so that heating / cooling modes are active for at minimum 4 hours before changeover and that the delta between heating / cooling supply temperatures at changeover point is		
NA	C403.4.1.5	Heating water temperature setback	For hot water boilers that provide building heating via one- or two-pipe systems, indicate controls that provide heating water temperature setback based on outdoor temperature		
NA	C403.4.4	Hydronic system part load controls and supply-water temperature reset	For heating and chilled water systems with ≥ 300,000 Btu/h output capacity, indicate system controls are configured to automatically reset supply water temperature based upon demand; or exception applied		
NA	C403.4.4	Hydronic system part load controls and supply-water temperature reset	Indicate automatic pump flow controls are configured to reduce system flow rate by ≥ 50%, or the maximum allowed by the equipment manufacturer, based upon the heating or cooling loads; or describe why not required		
NA	C403.4.4	Hydronic system part load controls and supply-water temperature reset	For hydronic systems with output capacity ≥ 300,000 Btu/h that serve heating water systems, chilled water systems and water-cooled unitary air conditioners, indicate that pumps are provided with a variable speed drive if one of the following conditions apply: 1) System pump motor hp is ≥ 2 hp and pumps are designed to operate continuously or per time schedule; 2) System pump motor hp is ≥ 7.5 hp and pumps are controlled by automatic DDC configured to only operate pumps when there is a call for zone heating or cooling		
NA	C403.4.4	Hydronic system part load controls and supply-water temperature reset	Where variable speed drives are required, indicate system is configured so that pump motor power is ≤ 30% of design wattage at 50% of design flow rate; indicate pump flow is controlled to maintain one control valve nearly wide-open, or to maintain a minimum differential pressure; or exception applied		

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NA	C403.4.6	Hydronic system variable pump flow control	For individual pumps required to have variable speed controls, indicate manner of pump speed control (differential pressure, static pressure setpoint, zone heating or cooling demand, or based on the relationship between variable speed controller frequency and power)		
NA	C403.4.5	Chiller / boiler plant pump isolation	Indicate controls are configured to automatically reduce overall plant flow and shut-off flow through individual chillers and boilers when not in use		
NA	C403.4.3.3.1	Water loop heat pump - temperature deadband	Indicate method of water loop temperature control (central plant equipment controls are configured to provide ≥ 20°F water supply temperature deadband between heat rejection and heat addition modes, or controls are configured for system loop temperature optimization		
NA	C403.4.3.3.2	Water loop heat pump - heat rejection equipment	Indicate type of cooling tower (open- or closed-circuit) in equipment schedule; indicate whether the cooling tower is used directly in the heat pump loop or in conjunction with a separate heat exchanger; indicate method used to limit system heat loss when heat rejection is not needed		
NA	C403.4.3.3.3	Water loop heat pump - isolation valves	For hydronic heat pump systems with total system power > 10 hp, indicate 2-way isolation valves on each heat pump and variable flow system control		
HEAT REJECTION SYSTEMS - EQUIPMENT SELECTION & PERFORMANCE					
NA	C403.9.1.3	Centrifugal fan open-circuit cooling towers	For open-circuit centrifugal fan cooling towers with ≥ 1,100 gpm capacity, indicate cooling towers comply with efficiency requirements for axial fan open circuit cooling towers		
HEAT REJECTION & RECOVERY - CONTROLS					
NA	C403.9.1.1 C403.9.1.2	Fan speed control	For each fan powered by an individual motor or array of motors, with total connected fan power ≥ 5 hp (including motor service factor), indicate method of automatic fan speed control (adjusted based on leaving fluid temperature or condenser temperature / pressure of heat rejection device); verify fan selection provides ≤ 30% design wattage at 50% design airflow		
NA	C403.9.1.1 C403.9.1.2	Fan speed control	For multiple-cell heat rejection equipment with VSD, indicate controls are configured to ramp all fans in unison (not staged on / off operation)		

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NA	C403.9.1.4	Cooling tower flow turndown	For open-circuit cooling towers configured with multiple- or variable-speed condenser water pumps, indicate system is designed so all cells can be run in parallel; indicate method of condenser pump turn down control		
NA	C403.9.2.1	Heat recovery for service water heating	For buildings with 24-hour operation and > 1,500,000 Btu/h of heat rejection capacity and design service hot water load > 250,000 Btu/h, indicate condenser heat recovery to pre-heat service water; or exception applied. Provide calculations showing the amount of recovered heat that is utilized (60% of peak heat rejection load or pre-heat service water to 85°F).		
NA	C403.9.2.2	Steam condensate systems heat recovery	For buildings with on-site steam heating systems, indicate condensate water heat recovery and use of recovered heat		
NA	C403.9.2.2	Steam condensate systems heat recovery	For buildings that use off-site generated steam where condensate is not returned to the source, indicate on-site condensate water heat recovery		
NA	C403.9.2.3	Refrigeration condenser heat recovery	For buildings with food service, meat or deli departments that have ≥ 500,000 Btu/h of remote refrigeration capacity for coolers / freezers, indicate condenser heat recovery and use of captured energy (service water heating, space heating, or dehumidification reheating)		
NA	C403.9.2.3	Refrigeration condenser heat recovery	For buildings with ≥ 40,000 sf conditioned floor area and ≥ 1,000,000 Btu/h of remote refrigeration capacity, indicate condenser heat recovery to pre-heat service water; indicate remaining recovered heat is applied to space heating or dehumidification reheating		
NA	C403.9.2.4	Condenser heat recovery for space heating	For buildings that operate > 70 hour per week, that are not served by a DOAS with energy recovery, and have > 1,500,000 Btu/h of heat rejection capacity and ≥ 0.45 cfm per sf of design minimum supply airflow with reheat, indicate condenser heat recovery is provided for space heating that complies with Sections C403.9.2.4.1 or C403.9.2.4.2 or C403.9.2.4.4		
NA	C403.9.2.4.1 C403.9.2.4.4	Water to water heat recovery	Indicate that 90% or more of the total building space heating and ventilation air design loads are served by heat energy rejected from either a heat recovery chiller or the cooling loop of water to water heat pump equipment		
NA	C403.9.2.4.2	Exhaust heat recovery	Indicate that waste heat is recovered from least 90% of the total building exhaust airflow such that leaving exhaust air temperature while in heat recovery mode is 55° F dry bulb; note exhaust air systems eligible for exception to this requirement		

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NA	C403.9.2.4.3	Process heat recovery	In spaces with 5 watts per sf year-round cooling loads from lights and equipment, indicate these spaces are served by water-cooled equipment configured for heat recovery		
NA	C403.9.2.4.3	Process heat recovery	If these spaces are served by economizer (air or water), indicate automatic controls are configured to disable economizer operation while system is in heat recovery mode		
ADDITIONAL ENERGY EFFICIENCY MEASURE - IMPROVED LOW CARBON DISTRICT ENERGY SYSTEMS (10%)					
NA	C406.2.2.4	Improved low-carbon district energy systems (10 percent better).	Provide calculations showing 90% or more of the annual service water and space heat energy use or 90% or more of the annual service water heat, space heat and space cooling energy use is met by a district energy exchange system complying with C406.2.2.4.1 or a district energy heating and/or cooling system complying with C406.2.2.4.2; provide documentation the system is operational and is in accordance with this section prior to the final inspection.		
NA	C406.2.2.4.1	Improved low-carbon district energy exchange systems (10 percent better)	Provide calculations and documentation that 45% of the annual district-system-net-load-met (sum of heating and cooling energy provided to attached buildings) comes from heat recovery between connected buildings, waste heat, or renewable energy resources; and no more than 25% of the annual heat input to the system comes from fossil fuel or electric-resistance sources.		
NA	C406.2.2.4.2	Improved low-carbon district energy heating and cooling or heating only systems (10 percent better)	Provide calculations and documentation that distribution losses are less than or equal to 5% of the annual load delivered to buildings served by the system; and that the system complies with one of the following: 1) 45% of the annual district-system-net-load-met (sum of heating and cooling energy provided to attached buildings) comes from heat recovery between connected buildings, waste heat, or renewable energy resources and no more than 25% of the annual heat input to the system comes from fossil fuel or electric-resistance sources, or, 2) 10% or less of the system annual heat input to the system comes from fossil fuels, electric-resistance sources, or heat pump sources with an annual COP < 3		
ADDITIONAL ENERGY EFFICIENCY MEASURE - IMPROVED LOW CARBON DISTRICT ENERGY SYSTEMS (20%)					

Mechanical Requirements List, pg 25 of 32

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NA	C406.2.2.5	Improved low-carbon district energy systems (20 percent better).	Provide calculations showing 90% or more of the annual service water and space heat energy use or 90% or more of the annual service water heat, space heat and space cooling energy use is met by a district energy exchange system complying with C406.2.2.4.1 or a district energy heating and/or cooling system complying with C406.2.2.4.2; provide documentation the system is operational and is in accordance with this section prior to the final inspection.		
NA	C406.2.2.5.1	Improved low-carbon district energy exchange systems (20 percent better)	Provide calculations and documentation that 50% of the annual district-system-net-load-met (sum of heating and cooling energy provided to attached buildings) comes from heat recovery between connected buildings, waste heat, or renewable energy resources; and no more than 10% of the annual heat input to the system comes from fossil fuel or electric-resistance sources.		
NA	C406.2.2.5.2	Improved low-carbon district energy heating and cooling or heating only systems (20 percent better)	Provide calculations and documentation that distribution losses are less than or equal to 5% of the annual load delivered to buildings served by the system; and that the system complies with one of the following: 1) 50% of the annual district-system-net-load-met (sum of heating and cooling energy provided to attached buildings) comes from heat recovery between connected buildings, waste heat, or renewable energy resources and no more than 25% of the annual heat input to the system comes from fossil fuel or electric-resistance sources, or, 2) 10% or less of the system annual heat input to the system comes from fossil fuels, electric-resistance sources, or heat pump sources with an annual COP < 4		
LOAD MANAGEMENT MEASURE - COOLING ENERGY STORAGE					
NA	C406.3. 5	Cooling energy storage	To comply with this additional efficiency credit, indicate automatic controls connected to central DDC having digital input capable of being activated by external utility signal; where utility real-time demand or pricing program exists indicate system configured to utilize this signal; otherwise indicate building demand monitoring installed and controls configured to utilize demand signals		
NA	C406.3. 5	Cooling energy storage	Provide calculation of ice or chilled water storage capacity with standby loss ≤ 1.5% per day; indicate automatic controls to activate storage to reduce peak period electric demand; provide calculation of storage capacity		
MULTIPLE ZONE AIR SYSTEMS					

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12920 SE 38th STREET
BELLEVUE, WA 98006
WWW.T-MOBILE.COM

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SOUTH MERIDIAN & 43RD AVE SE
4227 S MERIDIAN SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y

PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

CLAYTON LUCAS
STATE OF WASHINGTON
21036382
REGISTERED
PROFESSIONAL ENGINEER
11/26/2024

PRCTI20241902

DATE: 11.11.2024

FUZION
9096 EAST BAHIA DRIVE
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SCOTTSDALE, AZ 85260
design@fuzionad.com
(480) 463 - 4764
www.fuzionad.com

GEMINI ENGINEERING GROUP
101 Nightlinger Lane
Millsap, TX 76066
(817) 901-5191

##	DESCRIPTION	DATE

DATE: 11.11.2024
DRAWN BY: HO

ENERGY CALCULATIONS

M603

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

Mechanical Requirements List, pg 26 of 32

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NA	C403.6.1	Air systems serving multiple zones	Identify supply air systems serving multiple zones and the zones they serve as plans; indicate whether system is VAV and method of primary air control; or provide supporting documentation for applied exception to VAV	
NA	C403.6.1	VAV air terminal primary supply airflow	Provide equipment schedules on plans that list all VAV air terminals and types (fan-powered series and parallel air terminals, single duct and dual duct air terminals, etc.)	
NA	C403.6.1	VAV air terminal primary supply airflow	For each air terminal include: maximum primary supply airflow rates during zone peak heating and zone peak cooling; maximum terminal airflow during reheating, recooling or mixing; minimum ventilation airflow rate, and the basis for these values; if DCV or ASHRAE 62.1 multiple zone equation is the basis for minimum flow rates, provide this calculation on plans	
NA	C403.6.2	Single duct VAV terminal units	Indicate single duct terminal units are configured to reduce primary supply air before reheating or recooling	
NA	C403.6.3	Dual duct systems - terminal units	For systems with separate warm air and cool air ducts, indicate terminal units are configured to reduce the flow from one duct to minimum before mixing with air from the other duct	
NA	C403.6.8 C403.6.9	VAV system static - pressure sensors and DDC set points	Indicate locations of duct static pressure sensors on plans; include at least one sensor per major duct branch; verify controller setpoint pressure at each sensor is ≤ 1.2 inch w.g.	
NA	C403.6.8 C403.6.9	VAV system static - pressure sensors and DDC set points	For systems with zone level DDC, indicate controls are configured to monitor zone damper positions and reset static pressure setpoint based on the zone requiring most pressure; include control logic that automatically detects and generates an alarm if any zone excessively drives reset logic, and allows building operators to exclude zones from reset logic.	
NA	C403.6.4	VAV system supply air reset	Indicate controls automatically reset supply air temperature in response to building loads or outdoor air temperature; or exception applied	
NA	**C403.6.4**	**VAV system supply air reset**	**Indicate zones expected to experience relatively constant loads and that maximum air flow is designed to deliver peak capacity at the fully reset supply air temperature.**	
NA	C403.6.5	Multiple-zone VAV system ventilation optimization controls	For systems with zone level DDC controls, indicate controls are configured to automatically reduce outdoor airflow in response to changes in system ventilation efficiency; or exception applied	

Mechanical Requirements List, pg 27 of 32

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NA	C403.6.6	Parallel fan powered VAV air terminals	Indicate controls automatically activate or shut off the air terminal fan based on call for heating and / or ventilation; indicate controls are configured to activate the terminal fan as the first stage of heating prior to activating the heating coil; indicate control method of primary air during warmup or temperature setback mode	
HIGH EFFICIENCY MULTIPLE-ZONE VAV SYSTEMS - EXCEPTION TO C403.3.5 DOAS, MUST COMPLY WITH ALL 15 PROVISIONS TO BE ELIGIBLE				
NA	C403.6.10, Item 1	Minimum area served and zoning	Indicate that each high efficiency multiple-zone VAV systems serves an area ≥ 3,000 sf and includes ≥ 5 zones	
NA	C403.6.10, Item 2	Air economizer	Indicate system is configured for 100% air economizer operation and complies with all related economizer requirements per C403.5 (without economizer exceptions)	
NA	C403.6.10, Item 3	Direct digital controls (DDC)	Provide DDC controls for all components of system per C403.4.11 (regardless of system size); identify all DDC system input / output control points; indicate capability for trending and graphical display	
NA	C403.6.10, Items 4 and 5	Supply and outdoor air measurement and control	For systems with minimum required outdoor air ≥ 2,500 cfm, provide an airflow monitoring station that is configured to measure outdoor air intake under all load conditions; indicate control sequence that increases or reduces outdoor air cfm based on VAV terminal feedback of ventilation efficiency (per C403.8.5 without exceptions) or and DCV (per C403.7.1)	
NA	C403.6.10, Items 4 and 5	Supply and outdoor airflow measurement and control	Provide a supply airflow monitoring station that is configured to measure supply air delivered to VAV terminals under all load conditions	
NA	C403.6.10,I tem 6	Zone isolation and maximum area served	Verify maximum area served by a single VAV system is ≤ 50,000 sf, or serves entire floor, whichever is greater; in addition if a system serves > 25,000 sf, that includes areas that are expected to be occupied non-simultaneously, indicate zone isolation controls per C403.2.1	
NA	C403.6.10, Item 7	Interior / exterior zone design supply air temperature	Verify that VAV terminals serving interior cooling driven loads are sized per a design supply air temperature that is 5°F higher than VAV terminals serving exterior zones while in cooling mode	
NA	C403.6.10, Item 8	Maximum air terminal inlet velocity	Identify all air terminals with minimum primary airflow setpoints > 50% of maximum setpoint in mechanical equipment schedule for these air terminals indicate inlet velocity does not exceed 900 fpm	

Mechanical Requirements List, pg 28 of 32

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NA	C403.6.10, Item 9	Maximum allowable system brake horsepower	For each fan system serving a multiple-zone VAV HVAC, provide calculations that verify fan system electrical input power is ≤ 90% of the fan power budget in accordance with Section C403.8.1.1	
NA	C403.6.10, Item 10	Fan-powered terminal unit motor and control	Indicate all series and parallel fan-powered terminals have electronically commutated motors (ECM); indicate DDC control system is configured to vary air terminal fan speed as a function of the load; indicate fan speed during periods of low heating, low cooling, or ventilation-only mode is ≤ 66% of peak design air flow, or provide supporting documentation for applied exception	
NA	C403.6.10, Item 11	Application of single duct and fan-powered terminal units	Indicate VAV terminal types on plans; verify fan-powered terminal units only serve perimeter zones with envelope loads and interior zones with high occupant density and DCV per C403.7.1; verify all other zones are served by single duct terminal units	
NA	C403.6.10, Item 12	Fan-powered terminal unit primary air reset	Indicate DDC controls are configured to automatically reset the primary supply air cfm setpoint of all fan-powered terminal units to the minimum required to maintain ventilation during occupied heating or deadband mode, based upon the VAV air handling unit minimum ventilation air fraction	
NA	C403.6.10, Item 13	Controls for high occupant density spaces	For zones > 150 sf with high occupant density (≥ 25 people / 1000 sf), indicate zone is served by a dedicated terminal unit with DCV control that resets terminal unit ventilation setpoint based on measured CO_2; also indicate occupancy sensor control that automatically reduces minimum ventilation to zero and sets back room heating and cooling setpoints by ≥ 5°F when space in unoccupied	
NA	C403.6.10, Item 14	Dedicated cooling systems serving data centers and server, electronic equipment and telecom spaces	Indicate dedicated cooling systems are configured for 100% air economizer operation and comply with all related economizer requirements per C403.5 (without economizer exceptions), or heat recovery per C403.5, Exception 9	
NA	C403.6.10, Item 14	Dedicated cooling systems serving data centers and server, electronic equipment and telecom spaces	Indicate whether systems are served by a high efficiency heating water plant, or a high efficiency chilled water plant	

Mechanical Requirements List, pg 29 of 32

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NA	C403.6.10, Item 15	Central plant efficiency	If complying via high efficiency heating water plant: Indicate all VAV terminals have hydronic heating coils served by a heating water system with either gas-fired boiler(s) with thermal efficiency (Et) ≥ 92%, air-to-water heat pumps, or heat recovery chillers; indicate hydronic heating coils are sized per a maximum 120°F entering water temperature during peak demand	
NA	C403.6.10, Item 15	Central plant efficiency	If complying via high efficiency chilled water plant: Indicate all VAV air handlers have cooling coils served by chillers with rated IPLV efficiency that exceeds WSEC listed IPLV by at least 25% per Table C403.3.2(7) (note water-cooled IPLV is max, all others are min); indicate smallest chiller or compressor in plant is ≤ 20% of the total plant capacity, or provide thermal storage sized for ≥ 20% of total plant capacity	
NA	C403.6.10, Item 16	Fault detection and diagnostics	Indicate DDC system includes automatic fault detection and diagnostics (FDD) configured to monitor operation and provide fault reporting of all required parameters for all VAV air handlers and VAV air terminal units in the HPVAV system	
HIGH EFFICIENCY SINGLE-ZONE VAV SYSTEMS - EXCEPTION TO C403.3.5 DOAS, MUST COMPLY WITH ALL 8 PROVISIONS TO BE ELIGIBLE				
NA	C403.12, Item 1	Air economizer	Indicate system is configured for 100% air economizer operation and complies with all related economizer requirements per C403.5 (without economizer exceptions)	
NA	C403.12, Item 2	Direct digital controls (DDC)	Provide DDC controls for all components of system per C403.4.11 (regardless of system size); identify all DDC system input / output control points; indicate capability for trending and graphical display	
NA	C403.12, Item 3	Outdoor airflow measurement and control	For systems with minimum required outdoor air ≥ 1,000 cfm, provide an airflow monitoring station that is configured to measure outdoor air intake under all load conditions; indicate controls that adjust outdoor air cfm via DCV per C403.7.1	
NA	C403.12, Item 4	Maximum allowable fan power	For each fan system serving a single-zone VAV system, provide calculations that verify fan system electrical input power is ≤ 90% of the fan power budget in accordance withC403.8.1.1	
NA	C403.12, Item 5	Supply airflow control	Provide controls that adjust supply airflow based on the heating and cooling loads; indicate control sequence that limits minimum fan speed to 30% of peak design airflow or required ventilation during unoccupied mode, whichever is less	

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NA	C403.12, Item 6	Controls for high occupant density spaces	For zones > 150 sf with high occupant density (≥ 25 people / 1000 sf), indicate DCV control that resets ventilation setpoint based on measured CO_2; also indicate occupancy sensor control that automatically reduces minimum ventilation to zero and sets back room heating and cooling setpoints by ≥ 5°F when space in unoccupied	
NA	C403.12, Item 7	High efficiency system option	Indicate which system performance option is applied - high efficiency DX cooling and heat pump or high efficiency gas heating; or heating coils served by a high efficiency heating water plant; or cooling coils served by high efficiency chilled water plant	
NA	C403.12, Item 7	High efficiency system option	If complying via high efficiency DX: Indicate full load and part load rated cooling efficiency exceeds WSEC listed efficiency by at least 15% ; if heating is supplied by a gas-fired furnace, indicate thermal efficiency (Et) is ≥ 90%; if system is a heat pump, indicate heating efficiency (HSPF or COP) exceeds WSEC listed efficiency by at least 10%; control of cooling and heating coil output shall be configured with a minimum of 2-stages or modulating	
NA	C403.12, Item 7	High efficiency system option	If complying via high efficiency heating water plant: Indicate hydronic heating coils are served by a heating water system with either gas-fired boiler(s) with thermal efficiency (Et) ≥ 92%, air-to-water heat pumps, or heat recovery chillers; indicate hydronic heating coils are sized per a maximum 120°F entering water temperature during peak demand	
NA	C403.12, Item 7	High efficiency system option	If complying via high efficiency chilled water plant: Indicate cooling coils are served by chillers with rated IPLV efficiency that exceeds WSEC listed IPLV by at least 25% per Table C403.3.2(7) (note water-cooled IPLV is max, all others are min); indicate smallest chiller or compressor in plant is ≤ 20% of the total plant capacity, or provide thermal storage sized for ≥ 20% of total plant capacity	
NA	C403.12, Item 8	Fault detection and diagnostics	Indicate DDC system includes automatic fault detection and diagnostics (FDD) configured to monitor operation and provide fault reporting of all required parameters for all HPVAV single-zone air systems	
EXTERIOR HEATING SYSTEMS				
NA	C403.11.1	Heating outside a building	Indicate systems providing heating in non-enclosed outdoor occupied spaces are radiant systems	

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NA	C403.11.1	Heating outside a building	Indicate occupancy sensing or timer switch controls configured to automatically shut off heating system when area served is unoccupied	
NA	C403.11.2	Snow melt systems	Indicate automatic controls configured to shut off system when pavement temperature exceeds 50°F and no precipitation is falling, and when outdoor air temperature exceeds 40°F	
NA	C403.11.3	Freeze protection system controls	Indicate automatic controls to shut off system when outdoor temperature exceeds 40°F, or conditions protect fluid from freezing	
HVAC EQUIPMENT ENERGY USE METERING				
NA	C409.3.1	HVAC equipment energy use metering	For new buildings and building additions > 25,000 sf, verify energy use metering of all equipment used to provide space heating and cooling, dehumidification and ventilation will be provided per C409; indicate equipment eligible for exception	
DOCUMENTATION AND SYSTEM SPECIFIC REQUIREMENT TO SUPPORT COMMISSIONING (CX)				
YES	C408.1	Scope of mechanical systems commissioning	For buildings with areas required to comply with C403.3.5 (DOAS) or with ≥ 180,000 Btu/h total output cooling capacity or ≥240,000 Btu/h total output heating capacity or energy recovery equipment ≥ 300 cfm, indicate that all mechanical systems regardless of individual capacity are required to be commissioned; or provide building heating / cooling capacity calculation demonstrating eligibility for exception	M101
YES	C408.1	Scope of mechanical systems commissioning	Indicate that all systems, equipment and controls for which the WSEC requires control functions and / or configuration to perform specific functions are included in the Cx scope	M101
YES	C408.1.1 C408.1.4.1	Commissioning requirements in construction documents	Indicate in plans and specifications that Cx per C408 is required for all applicable mechanical systems	M101
YES	C408.1.1 C408.1.4.1	Commissioning requirements in construction documents	Include general summary that includes at minimum: narrative description of activities, responsibilities of the Cx team, schedule of activities including verification of project close out documentation per C103.6, and conflict of interest plan (if required)	M101
YES	C408.1.1 C408.1.4.1	Commissioning requirements in construction documents	Include in general summary that a Cx project report or Compliance Checklist (Figure C408.1.4.1) shall be completed by the Certified Cx Professional and provided to the owner prior to the final mechanical inspection.	M101

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YES	C408.1.2.2	Functional performance testing criteria	Identify in plans and specifications the intended operation of all equipment and controls during all modes of operation, including interfacing between new and existing-to-remain systems	M101	
YES	C408.2.2	Air system and hydronic system balancing	Indicate in plans that air and fluid flow rates shall be tested and balanced within the tolerances defined in the specifications; indicate systems shall be balanced in a manner to first minimize throttling losses, then adjusted to meet design flow conditions	M101	
YES	C408.2.2.1	Air system balancing devices	Indicate devices that provide the capability to balance all supply air outlets, zone terminals and air handling equipment requiring system balancing	M101	
NA	C408.2.2.2	Hydronic system balancing devices	Indicate devices that provide the capability to isolate, balance and measure flow across all hydronic equipment requiring system balancing including heating and cooling coils and pumps; or exception applied		
PROJECT CLOSE OUT DOCUMENTATION					
YES	C103.6	Documentation and project close out submittal requirements	Indicate in plans that project close out documentation and training of building operations personnel is required for all mechanical components, equipment and systems governed by this code; indicate close out documentation shall include: record documents, O&M manuals, applicable WSEC mechanical equipment compliance reports and calculations	M101	

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SOUTH MERIDIAN & 43RD AVE SE
4227 S MERIDIAN SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y
PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

CLAYTON LUCAS
STATE OF WASHINGTON
23853682
REGISTERED
PROFESSIONAL ENGINEER
11/26/2024

PRCTI20241902

DATE: 11.11.2024

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GEMINI ENGINEERING GROUP
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Millsap, TX 76066
(817) 901-5191

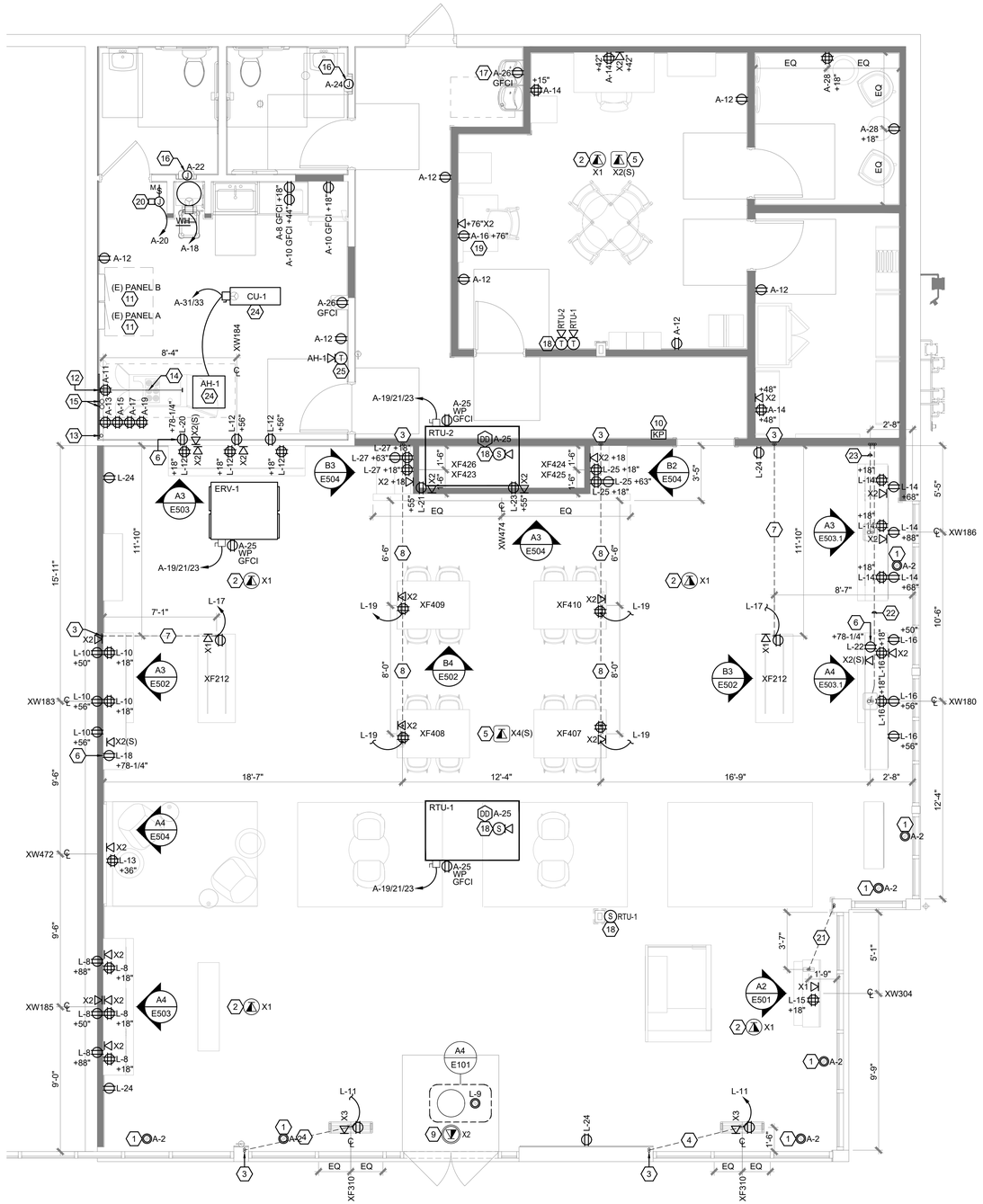
##	DESCRIPTION	DATE

DATE: 11.11.2024
DRAWN BY: HO

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

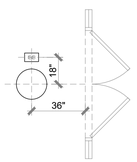
ENERGY CALCULATIONS

M604



A3 POWER FLOOR PLAN

1/4" = 1'-0"



1. LOCATE InVue 52 cm EXCLUSION ZONE MANAGER 36" FROM ENTRY DOOR(S)
2. PROVIDE CEILING MOUNTED DUPLEX RECEPTACLE NEXT TO InVue 52 cm EXCLUSION ZONE MANAGER

A4 EXCLUSION ZONE MANAGER CLG DTL

1/4" = 1'-0"

GENERAL NOTES

A. SLAB PENTRATIONS SHALL BE MADE WITH PROPER LOCATION AND X-RAY IDENTIFICATION OF EXISTING REBAR AND/OR POST TENSION CABLES AND CONFIRMATION OF UNDER-SLAB CONDITIONS/SPACES BELOW. ESCALATE ANY CONFLICTS WITH STUB-IN LOCATIONS TO THE CPM.

B. ELECTRICAL CONTRACTOR TO LABEL ALL RECEPTACLES AND PROVIDE A TYPE-WRITTEN PANEL SCHEDULE INSIDE THE ELECTRICAL PANEL.

C. ALL WORK SHALL COMPLY WITH THE CURRENTLY ADOPTED CODES, ORDINANCES, AND AMENDMENTS.

D. ALL EQUIPMENT SHALL BE LISTED BY A RECOGNIZED TESTING LAB (i.e. U.L., ETC.)

E. PROVIDE PLENUM RATED WIRING WHERE REQUIRED TO COMPLY WITH NEC.

F. PROPERLY GROUND RECEPTACLES, BOXES AND COVER PLATES INSTALLED IN FIXTURES PER NEC 250 AND 406.

G. NO BX, AC OR ROMEX TYPE WIRING ALLOWED IN WALLS.

H. ALL LOW VOLTAGE WIRING TO BE IN CONDUIT UNLESS OTHERWISE APPROVED BY AUTHORITY HAVING JURISDICTION.

(##)	NOTES
1	SHOW WINDOW RECEPTACLE(S). LOCATE MAXIMUM 18" FROM TOP OF WINDOW (NEC 210.62).
2	PROVIDE OVERHEAD AP CABLING ABOVE CEILING W/ 3'-0" MIN. SERVICE LOOP. COORDINATE W/ AP VENDOR FOR EXACT LOCATIONS.
3	PROVIDE POWER CIRCUIT AND LOW VOLTAGE WIRING TO J-BOXES ABOVE CEILING FOR CONDUIT TRENCH TO FLOOR FIXTURES.
4	SAW CUT (TRENCH) TO XF310 FIXTURE. SEE WIRING DETAILS ON SHEET E501 FOR ADDITIONAL INFORMATION AND RESPONSIBILITIES. • CONDUIT SCHEDULE: (1) 1" GENERAL POWER, (1) 1" DATA
5	PROVIDE OVERHEAD AP CAT6A SHEILDED CABLING ABOVE CEILING FOR RAN. PROVIDE 20'-0" SERVICE LOOP COILED ABOVE CEILING. COORDINATE W/ AP VENDOR FOR EXACT LOCATIONS.
6	PROVIDE DEDICATED CIRCUIT FOR DIGITAL DISPLAY EQUIPMENT. SEE DETAILS ON SHEETS E502 AND E503.
7	SAW CUT (TRENCH) TO XF212 OEM TABLE. SEE WIRING DETAILS ON SHEET E502 FOR ADDITIONAL INFORMATION AND RESPONSIBILITIES. • CONDUIT SCHEDULE: (1) 3/4" GENERAL POWER & (1) 3/4" DATA
8	SAW CUT (TRENCH) TO WORKSHOP TABLE. SEE WIRING DETAILS ON SHEET E502 FOR ADDITIONAL INFORMATION AND RESPONSIBILITIES. • CONDUIT SCHEDULE: (1) 1" GENERAL POWER & (1) 1" DATA TO EACH TABLE
9	PROVIDE DATA BOX ABOVE CEILING FOR SHOPPER TRACKER. OWNER'S VENDOR WILL EXTEND CABLING BACK TO TELEPHONE BACK BOARD.
10	ROUGH IN FOR JCI KEYPAD. MOUNT AT 48" A.F.F., COORDINATE EXACT LOCATION WITH SECURITY COMPANY.
11	ELECTRICAL EQUIPMENT. SEE ONE LINE DIAGRAM ON SHEET E301. T.G.C. TO PROVIDE ALL NEC CLEARANCES.
12	PROVIDE TELEPHONE BACKBOARD. SEE ELEVATION ON SHEET E302 FOR DETAILS.
13	PROVIDE 2" CONDUIT AND PULL CORD FROM LANDLORD TELEPHONE BACKBOARD TO THE TENANT TELEPHONE BACKBOARD.
14	PROVIDE (1) 3" CONDUIT FOR JCI CABLES.
15	PROVIDE (2) 4" CONDUIT FOR CAT6 RT CABLES.
16	PROVIDE CONNECTION TO AUTOMATIC HAND DRYER AT 34" A.F.F. (HAND DRYER FURNISHED BY OWNER THROUGH LIGHTING VENDOR). SEE ARCHITECTURAL DETAILS FOR LOCATION.
17	MOUNT GFI RECEPTACLE PER MANUFACTURES TEMPLATE.
18	INSTALL OWNER SUPPLIED ENTOUCH.ONE MASTER CONTROLLER THERMOSTAT, ZONE TEMPERATURE SENSOR AND DUCT TEMPERATURE SENSOR. MOUNT THERMOSTAT AT 48" A.F.F., PROVIDE AND PULL CAT5 CABLE FROM ET1 THERMOSTAT TO OPEN PORT ON CUSTOMER NETWORK SWITCH. MOUNT ZONE TEMPERATURE SENSOR AT 60" A.F.F. AND WIRE TO THE S2 & S2 RTN. MOUNT DUCT TEMPERATURE SENSOR IN THE MAIN SUPPLY DUCT WITHIN 6 FEET FROM UNIT AND WIRE TO S2 & S2 RTN. CABLE RUNS AND TERMINATIONS BY MC/GC (CABLE PULL).
19	REFER TO MONITOR MOUNTING DETAILS ON ARCHITECTURAL DRAWINGS.
20	PROVIDE MOTOR RATED SWITCH FOR RECIRCULATION PUMP DISCONNECT. CONNECT TO CIRCUIT INDICATED USING 2#12, IN 3/4" CONDUIT AND PROVIDE FINAL CONNECTIONS AFTER PLUMBER INSTALLATION.
21	SAW CUT (TRENCH) TO FREESTANDING XW302 GRAB & GO. SEE DETAILS ON SHEET E501 FOR ADDITIONAL INFORMATION AND RESPONSIBILITIES. • CONDUIT SCHEDULE: (1) 1" DEDICATED POWER, (1) 1" GENERAL POWER & (1) 1" DATA
22	SAW CUT (TRENCH) TO FREESTANDING XW180 T-MOBILE BENTO. SEE WIRING DETAILS ON SHEET E503.1 FOR ADDITIONAL INFORMATION AND RESPONSIBILITIES. • CONDUIT SCHEDULE: (1) 1-1/4" DEDICATED POWER & (1) 2" DATA
23	SAW CUT (TRENCH) TO FREESTANDING XW186 T-MOBILE BENTO. SEE WIRING DETAILS ON SHEET E503.1 FOR ADDITIONAL INFORMATION AND RESPONSIBILITIES. • CONDUIT SCHEDULE: (1) 1-1/4"" DEDICATED POWER & (1) 2" DATA

WIRING SYMBOLS

X1	DUPLEX RJ45 JACK W/ 1 CAT6 WIRE	X1	OVERHEAD AP CABLING
X2(S)	DUPLEX RJ45 JACK W/ 2 CAT6A SHIELDED WIRES	X1	OVERHEAD SHOPPER TRACKER CABLING
X2	DUPLEX RJ45 JACK W/ 2 CAT6 WIRES	X2(S)	OVERHEAD RAN W/ 2 CAT6A SHIELDED WIRES
X3	QUADPLEX RJ45 JACK W/ 3 CAT6 WIRES	X4(S)	OVERHEAD RAN W/ 4 CAT6A SHIELDED WIRES
X4	QUADPLEX RJ45 JACK W/ 4 CAT6 WIRES		

NOTES:
A. PROVIDE CAT6A SHIELDED DATA CABLINF FOR ALL NANOLUMEN LED DIGITAL DISPLAYS AND RAN EQUIPMENT.
B. UPSIZE CONDUIT FOR CAT6A SHIELDED CABLE AS REQUIRED.
C. RIGID CONDUIT ONLY FOR DATA CABLING. NO FLEXIBLE CONDUIT ALLOWED.

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PUYALLUP, WA 98373

DESIGN TYPE: E1Y

PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

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STATE OF WASHINGTON
23036882
REGISTERED
PROFESSIONAL ENGINEER
11/26/2024

PRCTI20241902

DATE: 11.11.2024

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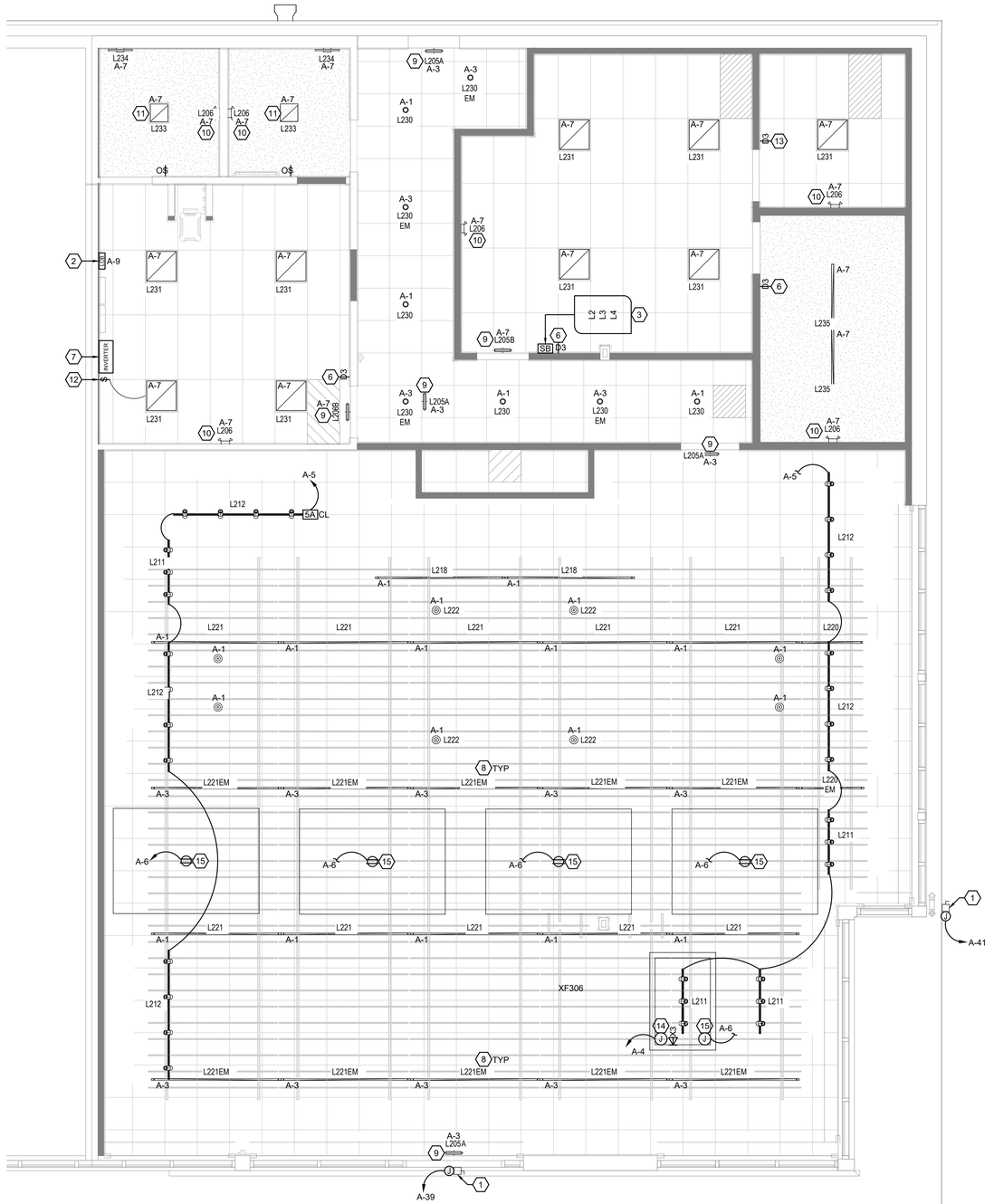
GEMINI ENGINEERING GROUP
101 Nightlinger Lane
Millsap, TX 76066
(817) 901-5191

##	DESCRIPTION	DATE

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POWER FLOOR PLAN

E101



A3 LIGHTING FLOOR PLAN

1/4" = 1'-0"

KEYED NOTES	
##	NOTES
1	PROVIDE AND INSTALL JUNCTION BOX FOR EXTERIOR SIGNAGE. COORDINATE LOCATION WITH SIGN VENDER. PROVIDE POWER FROM LIGHTING CONTROL BOX (LCB) TO JUNCTION BOX. JUNCTION BOX SHOULD BE NO FURTHER THAN FIVE FEET FROM SIGNAGE. PROVIDE DISCONNECT AS REQUIRED.
2	ENTOUCH.ONE LIGHTING CONTROL BOX (LCB). INSTALL ADJACENT TO ELECTRICAL PANEL. PROVIDE RIB SPDT RELAYS AND CONTACTORS AS REQUIRED. SEE WIRING DETAIL ON SHEET E114.
3	ENTOUCH.ONE DIMMING & LOAD CONTROLLER (DLC) FOR AUTOMATIC AND MANUAL CONTROL OF SALES FLOOR LIGHTING. MOUNT AT 42" A.F.F. SEE CONTROLS DETAILS ON E113 & E114.
4	NOT USED
5	NOT USED
6	WALL MOUNTED 0-10V DIMMER OCCUPANCY SENSOR. ADJUST AUTO ON LIGHT LEVEL TO AUTOMATICALLY TURN LIGHTS ON TO NO MORE THAN 50% PERCENT POWER PER SECTION C405.2.1.1. SEE WIRING DIAGRAM ON E113.
7	LED MINI INVERTER FOR 90 MIN EMERGENCY OPERATION. SEE DETAIL A4/E112. REFER TO MANUFACTURER WIRING DIAGRAMS INCLUDED WITH EQUIPMENT.
8	SALES FLOOR LIGHT FIXTURES LABELED EM (EMERGENCY EGRESS) TO BE WIRED TO THE LED MINI INVERTER FOR 90 MIN EMERGENCY OPERATION. REFER TO MANUFACTURE WIRING DIAGRAM(S) INCLUDED WITH EQUIPMENT.
9	ALL EXIT SIGNS ARE TO BE WIRED TO LOCAL CIRCUIT ON AN UNSWITCHED LEG AHEAD OF ANY LOCAL SWITCHING OR CONTROLS. EXIT SIGNS ARE PROVIDED WITH A 90 MINUTE BATTERY BACK-UP.
10	ALL DUAL HEAD EMERGENCY LIGHTS ARE TO BE WIRED TO LOCAL CIRCUIT ON AN UNSWITCHED LEG AHEAD OF ANY LOCAL SWITCHING OR CONTROLS. DUAL HEAD EMERGENCY LIGHTS ARE PROVIDED WITH A 90 MINUTE BATTERY BACK-UP.
11	CEILING MOUNTED VENTILATION FAN WITH LED LIGHT. PROVIDE WALL MOUNTED OCCUPANCY SENSOR.
12	PROVIDE LINE VOLTAGE WALL SWITCH TO OVERRIDE LIGHTING CONTROLS AT LIGHT FIXTURE ADJACENT TO THE ELECTRICAL EQUIPMENT PER NEC 110.26(D).
13	WALL MOUNTED 0-10V DIMMER OCCUPANCY SENSOR. SEE WIRING DIAGRAM ON E113.
14	XF306 DIGITAL WELCOME CLOUD FIXTURE • CONDUIT SCHEDULE: (1) 3/4" DEDICATED POWER, (1) 3/4" GENERAL POWER & (1) 1" DATA • ELECTRICAL CONTRACTOR TO PROVIDE: PROVIDE POWER CIRCUITS AND LOW VOLTAGE WIRING TO J-BOXES ABOVE CEILING. PROVIDE APPROVED MC CABLE FROM J-BOX TO FIXTURE. LEAVE WHIPS COILED AND TAPED FOR HARD-WIRED CONNECTION TO J-BOXES IN THE FIXTURE BY ELECTRICAL CONTRACTOR DURING LED DISPLAY INSTALLATIONS. PROVIDE CAT6 DATA CABLING FOR THE NANOLUMEN LED DIGITAL DISPLAY. TIP CABLE AND LEAVE LONG SERVICE LOOP FOR OWNER'S VENDOR TO ROUTE CABLING TO FIXTURE AND MAKE FINAL CONNECTIONS.
15	PROVIDE J-BOX ABOVE CEILING FOR WELCOME CLOUD LED LIGHTS. CIRCUIT ALSO SERVES PORTAL CLOUD LED LIGHTING.

GENERAL NOTES

A. ALL EQUIPMENT SHALL BE LISTED BY A RECOGNIZED TESTING LAB (i.e. U.L., ETC.).

B. LUMINAIRES IN CONTACT WITH INSULATION SHALL BE U.L. LISTED FOR THERMAL BARRIER OR PROVIDED WITH 3" MINIMUM CLEARANCE.

C. CONTRACTOR TO ENSURE THAT ALL LIGHTING EXPOSED TO THE PLENUM IS PLENUM RATED.

D. ALL RECESSED LUMINAIRES IN SALES AREA SHALL BE CENTERED IN/ON CEILING TILE. PROVIDE ADDITIONAL SUPPORT PER MFG. RECOMMENDATIONS FROM STRUCTURE ABOVE FOR ALL LUMINAIRES ATTACHED TO HUNG CEILINGS.

E. SEE REFLECTED CEILING PLAN FOR ACTUAL LUMINAIRE LOCATIONS AND DIMENSIONS.

F. ALL EXIT SIGNS AND DUAL HEAD EMERGENCY LIGHTS TO HAVE 90 MIN. BATTERY BACKUP.

G. T.G.C. TO VERIFY EXIT DISCHARGE LIGHTING MEETS CODE. WHERE REQUIRED T.G.C. SHALL PROVIDE CODE COMPLIANT EXIT DISCHARGE LIGHTING IF NOT PRESENT.

WHEN REQUIRED, IT IS THE OWNER'S RESPONSIBILITY TO CONTRACT WITH A COMMISSIONING AUTHORITY TO COMPLY WITH LOCAL CODES.

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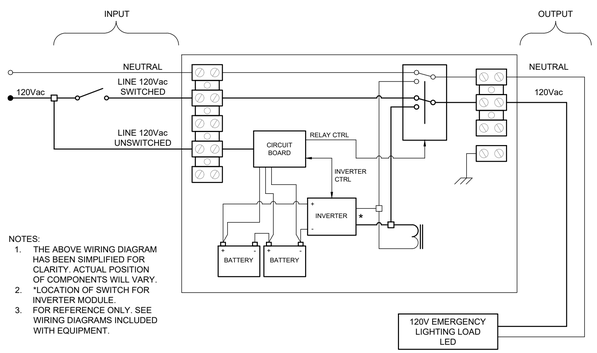
LIGHTING FLOOR PLAN

E111

EMERGI-LITE/ABB INVERTER INSTALL & START-UP GUIDE – MUST READ!

****AS OF 9/26/22, ALL INSTALLERS MUST CALL ABB FOR START-UP ***BEFORE*** POWERING UP THE UNIT. ANY INVERTER THAT IS POWERED ON PRIOR TO THE START-UP CALL MAY RISK VOIDING THE FACTORY WARRANTY.
FOR START-UP CALL 1-888-552-6467, PRESS 9 (ENGLISH) EXT 2 OR EXT 4 (9AM – 5PM EST)

1. WHEN SETTING UP THE UNIT, PERFORM ALL TESTS ***BEFORE*** INSTALLING THE LIGHTING LOAD.
2. WHEN WIRING TO BE A SWITCHED UNIT, MAKE SURE THAT THE CONSTANT HOT IS CONNECTED TO THE UN-SWT INPUT, THEN THAT THE SWITCH LEG IS CONNECTED TO THE SWT INPUT – IF DONE THE OTHER WAY THE BATTERIES WILL NOT CHARGE, AND THE UNIT WILL NOT WORK IN EMERGENCY.
3. ***NEVER*** PUT YOUR INPUT WIRES ON THE OUTPUT OF THE SYSTEM AS THAT WILL DAMAGE THE SAMLEX INVERTER MODULE, AS WELL AS POSSIBLY DAMAGE MORE COMPONENTS IN THE SYSTEM.
4. ***DO NOT*** PUT THE ***ENTOUCH SYSTEM ON THE LOAD SIDE***, AS IT CAN CAUSE THE SAME AS THE ABOVE.
5. WE RECOMMEND AGAINST USING THE CONTACTORS, GTD IS THE MOST COMMON, AS THEY DO WHAT THE INVERTER ALREADY DOES AND CAN CAUSE ISSUES.
6. WHEN CONNECTING THE BATTERIES MAKE SURE NOT TO CROSS POLARITY OR LET THEM TOUCH AS THAT WILL DAMAGE THE BATTERIES, THE WIRES, AND THE PCB.
7. OUTPUT NEUTRAL MUST BE DEDICATED TO THE EMERGENCY, CANNOT BE SHARED WITH THE STANDARD UTILITY LIGHTING OR INPUT OF THE INVERTER.
8. MAKE SURE THAT THE SAMLEX INVERTER MODULE IS IN THE ON POSITION.
9. PLEASE TAKE NOTE OF THE LABEL ON THE SAMLEX THAT STATES THE WATTAGE IN WHICH IT HAS BEEN PROGRAMED (I.E. 1000W SAMLEX IS PROGRAMMED TO 720W).
10. OPENING THE SAMLEX VOIDS THE WARRANTY.
11. FOR ANY QUESTIONS, PLEASE CONTACT ABB TECH SUPPORT AT TOLL FREE # 1-888-552-6467



NOTES:
1. THE ABOVE WIRING DIAGRAM HAS BEEN SIMPLIFIED FOR CLARITY. ACTUAL POSITION OF COMPONENTS WILL VARY.
2. *LOCATION OF SWITCH FOR INVERTER MODULE.
3. FOR REFERENCE ONLY. SEE WIRING DIAGRAMS INCLUDED WITH EQUIPMENT.

A4 SALES - MINI INVERTER WIRING DIAGRAM

NTS

LED EMERGENCY LIGHTING MINI INVERTER SCHEDULE - SALES

DESCRIPTION	MODEL	NOTES
720W INVERTER	EMERGI-LITE EMU-720	90 MIN. BATTERY BACKUP

LED LUMINAIRE SCHEDULE

QUANTITY	CALLOUT	SYMBOL	DESCRIPTION	MODEL	LAMP	WATTS	BALLAST	VOLTS	MOUNTING	NOTES
1	CL	5A	CONTECH SINGLE CIRCUIT THIN END FEED CURRENT LIMITING DEVICE WITH BLACK FINISH.	LA-23T-R-B-REG#-B				120V 1P	TRACK	SIZES AVAILABLE: REG4 - 360W, 3A | REG5 - 480W, 4A REG6 - 600W, 5A | REG7 - 720W, 6A | REG8 - 840W, 7A
3	L211		LUMENTURE TRACK ACCENT WITH BLACK FINISH, 90 CRI, 3000K, ROUND APERTURE, 22 DEGREES, 14W, 1100 LUMENS	T50M-30H-1100-22-B-J	LED	14W	ELECTRONIC	120V 1P	TRACK	KB-24-B - LUMENTURE K BEAM SUSPENDED TRACK BLACK 4' LT4-B - CONTECH SURFACE MOUNT TRACK BLACK 4'
5	L212		LUMENTURE TRACK ACCENT WITH BLACK FINISH, 90 CRI, 3000K, ROUND APERTURE, 22 DEGREES, 14W, 1100 LUMENS	T50M-30H-1100-22-B-J	LED	14W	ELECTRONIC	120V 1P	TRACK	KB-28-B - LUMENTURE K BEAM SUSPENDED TRACK BLACK 8' LT8-B - CONTECH SURFACE MOUNT TRACK BLACK 8'
2	L218		CORONET LS3 DIRECT 8' BLACK WALL WASH FIXTURE	LS3-LED-8'-30-MOD-T-MOBILE-HIGH-UNV-DB-BLK-AC(SM)-WW-CAN-BLK	LED	80W	ELECTRONIC	120V 1P	SURFACE/ PENADANT (AIR CRAFT CABLE)	
1	L220		CORONET LS1 DIRECT 4' BLACK	LS1-LED-4'-30-MOD-T-MOBILE-LOW-UNV-DB-BLK-AC(SM)-WW-CAN-BLK	LED	20W	ELECTRONIC	120V 1P	SURFACE/ PENADANT (AIR CRAFT CABLE)	
1	L220-EM		CORONET LS1 DIRECT 4' BLACK EMERGENCY POWER FROM MINI INVERTER	LS1-LED-4'-30-MOD-T-MOBILE-LOW-UNV-DB-BLK-AC(SM)-WW-CAN-BLK	LED	20W	ELECTRONIC	120V 1P	SURFACE/ PENADANT (AIR CRAFT CABLE)	90 MIN. EMERGENCY BATTERY BACKUP PROVIDED BY MINI INVERTER
10	L221		CORONET LS1 DIRECT 8' BLACK	LS1-LED-8'-30-MOD-T-MOBILE-LOW-UNV-DB-BLK-AC(SM)-WW-CAN-BLK	LED	40W	ELECTRONIC	120V 1P	SURFACE/ PENADANT (AIR CRAFT CABLE)	
10	L221-EM		CORONET LS1 DIRECT 8' BLACK EMERGENCY POWER FROM MINI INVERTER	LS1-LED-8'-30-MOD-T-MOBILE-LOW-UNV-DB-BLK-AC(SM)-WW-CAN-BLK	LED	40W	ELECTRONIC	120V 1P	SURFACE/ PENADANT (AIR CRAFT CABLE)	90 MIN. EMERGENCY BATTERY BACKUP PROVIDED BY MINI INVERTER
8	L222		SOLAIS PENDANT DOWNLIGHT, 40 DEGREE BEAM, 3000K, 1100 LUMENS, 90 CRI, BLACK SPECULAR CONE AND BLACK FINISH	XC3-Xm20-40c-30H-1400-CB/BK	LED	22.4W	ELECTRONIC	120V 1P	PENDANT	
4	L230		SOLAIS RECESSED DOWNLIGHT, 40 DEGREE BEAM, 3000K, 1400 LUMENS, 90 CRI, BLACK CONE AND BLACK TRIM	YR4nc-D-Ym24-40c-30H-1400-BK/BK	LED	25.4W	ELECTRONIC	120V 1P	RECESSED	
4	L230-EM		SOLAIS RECESSED DOWNLIGHT, 40 DEGREE BEAM, 3000K, 1400 LUMENS, 90 CRI, BLACK CONE AND BLACK TRIM EMERGENCY POWER FROM MINI INVERTER	YR4nc-D-Ym24-40c-30H-1400-BK/BK	LED	25.4W	ELECTRONIC	120V 1P	RECESSED	90 MIN. EMERGENCY BATTERY BACKUP PROVIDED BY MINI INVERTER
9	L231		SOLAIS RECESSED 2X2 FLAT PANEL GENERAL LIGHT WITH 3000K, 4400 LUMENS, 80 CRI, WHITE FINISH	FP22-30K-100%-WH	LED	35W	ELECTRONIC	120V 1P	RECESSED	
2	L233		BROAN LED FAN/LIGHT	QTXE110150DCL	LED	8.3W	ELECTRONIC	120V 1P	RECESSED	PROVIDE WALL MOUNTED OCCUPANCY SENSOR
2	L234		AFX SURFACE MOUNT WALL FIXTURE WITH 3000K, 22W, 1125 LUMENS, BLACK FINISH, 24" LONG	BARV2403L30D2BK	LED	22W	ELECTRONIC	120V 1P	SURFACE	VERIFY LENGTH NEEDED OVER MIRROR
2	L235		COLUMBIA 4' LED LENSED STRIP 3K 3800 LUMEN	MPS-4-30-MW-C-W-ED-U	LED	30.4W	ELECTRONIC	120V 1P	SURFACE	
4	L205A		CONTECH MULTI FACE RED LTR SILVER HOUSING RECESSED AND SURFACE MOUNT EXIT SIGN W/ BATTERY	REXA-MF-R-EM-S	LED	3W	ELECTRONIC	120V 1P	SURFACE	90 MIN. EMERGENCY BATTERY BACKUP
2	L205B		DUAL LITE BLACK THERMOPLASTIC EXIT, UNIVERSAL FACE, RED OR GREEN LED EMERGENCY EXIT, NICAD BATTERY	CERG	LED	3.4W	ELECTRONIC	120V 1P	SURFACE	90 MIN. EMERGENCY BATTERY BACKUP
6	L206		DUAL LITE LED EMERGENCY REMOTE, 2 LAMP HEADS, 88 LMS PER LED, WALL, CEILING MOUNT, 120V, 277V, BLACK HOUSING, DAMP LOCATION	EV2D	LED (2)1W	2W	ELECTRONIC	120V 1P	SURFACE	90 MIN. EMERGENCY BATTERY BACKUP

NOTES:
1. COMPLETE LIGHTING PACKAGE IS OWNER FURNISHED, GC INSTALLED. REFER TO INSTALLATION INSTRUCTIONS.
2. CONTRACTOR TO ENSURE THAT ALL LIGHTIN EXPOSED TO THE PLENUM IS PLENUM RATED.

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LUMINAIRE SCHEDULES

E112

LIGHTING CONTROL/HVAC SEQUENCE OF OPERATION

LIGHTING CONTROL

1. THE LIGHTING IN EACH ENCLOSED ROOM (BOH, TELCO, INVENTORY, MEN'S RESTROOM, WOMEN'S RESTROOM) SHALL BE CONTROLLED BY LOCAL OCCUPANCY SENSOR(S).

2. THE REMAINDER OF THE LIGHTING SHALL BE CONTROLLED VIA AUTOMATIC LIGHTING CONTROL SYSTEM AND SHALL INCLUDE A 365 DAY ASTRONOMICAL TIMECLOCK. THE TIME CLOCK SHALL HAVE A NON-VOLATILE PROGRAM MEMORY. EACH LIGHTING CONTROL RELAY SHALL HAVE AN INTEGRAL OVERRIDE SWITCH THAT ALLOWS FOR INDEPENDENT OVERRIDE.

3. THERE SHALL BE TWO ON/OFF SWITCHES (CONTROL FUNCTIONS) FOR THE AUTOMATIC LIGHTING CONTROL SYSTEM, DEFINED BELOW:

(1) GENERAL LIGHTING FUNCTION (MANUAL ON/SCHEDULED OFF)

- A. SWITCH SHALL CONTROL ALL GENERAL LIGHTING LOCATED IN THE SALES AREA. WHEN PRESSED TO THE ON POSITION, ALL LIGHTING SHALL BE ENERGIZED. ONCE ENERGIZED, THE LIGHTING CONTROL SYSTEM SHALL AUTOMATICALLY DE-ENERGIZE ALL LIGHTING AT STORE CLOSE, UNLESS SWITCH IS PRESSED TO THE OFF POSITION PRIOR TO STORE CLOSE.
- B. SWITCH SHALL ALSO OPERATE AS A TIMED OVERRIDE. WHEN PRESSED TO THE ON POSITION BEYOND STORE CLOSE, ALL LIGHTING SHALL BE ENERGIZED FOR A MAXIMUM DURATION OF 2 HOURS.
- C. ALL LIGHTING SHALL BE PROGRAMMED WITH BLINK FUNCTION; 5 MINUTES PRIOR TO AUTOMATIC SHUTOFF.

(2) ACCENT LIGHTING FUNCTION (MANUAL ON/SCHEDULED OFF)

- A. SWITCH SHALL CONTROL ALL ACCENT LIGHTING AND SIGNAGE. WHEN PRESSED TO THE ON POSITION, ALL LIGHTING SHALL BE ENERGIZED 30 MINUTES PRIOR TO STORE OPENING. ONCE ENERGIZED, THE LIGHTING CONTROL SYSTEM SHALL AUTOMATICALLY DE-ENERGIZE ALL LIGHTING AT STORE CLOSE, UNLESS SWITCH IS PRESSED TO THE OFF POSITION PRIOR TO STORE CLOSE.
- B. SWITCH SHALL ALSO OPERATE AS A TIMED OVERRIDE. WHEN PRESSED TO THE ON POSITION BEYOND STORE CLOSE, ALL LIGHTING SHALL BE ENERGIZED FOR A MAXIMUM DURATION OF 2 HOURS.

(3) SECURITY LIGHTING FUNCTION (AUTOMATIC ON/MANUAL OFF)

- A. ALARM CONDITION FROM SECURITY SYSTEM SHALL ENERGIZE ALL GENERAL LIGHTING. LIGHTING SHALL REMAIN ENERGIZED UNTIL MANUALLY DE-ENERGIZED.

4. THREE PROGRAMMED TIMED SET POINTS SHALL BE SET FOR THIS SYSTEM.

   A. STORE OPEN
   B. STORE CLOSE
   C. 30 MINUTES PRIOR TO STORE OPENING

5. VERIFY ALL TIMED SET POINTS WITH OWNER AND ADJUST ACCORDINGLY PER MFG RECOMMENDATIONS.

6. A DAYLIGHTING SWITCH WILL BE IMPLEMENTED AS REQUIRED BY ENERGY CODES.

7. INITIAL PROGRAMMING OF THIS SYSTEM SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, PER MFG. RECOMMENDATIONS.

NOTE: ALL LIGHTING FOR THIS PROJECT SHALL BE WIRED TO OBTAIN THE ABOVE CONTROL SYSTEM DESCRIPTIONS. COORDINATE PROGRAMMING OF AUTOMATIC LIGHTING CONTROL SYSTEM WITH MFG. PRIOR TO INSTALLING.

HVAC CONTROL

1. EACH HVAC UNIT WILL BE CONTROLLED DIRECTLY FROM A PROGRAMMABLE THERMOSTAT. THE SYSTEM WILL BE CYCLED TO MAINTAIN THE ZONE TEMPERATURE SET POINT.

2. THE TIME SCHEDULE FOR THE HVAC EQUIPMENT WILL BE SET TO ALLOW THE STORE TO BE AT OCCUPIED TEMPERATURES WHEN THE STORE OPENS FOR CUSTOMERS AND THEN TO UNOCCUPIED MODE WHEN THE STORE CLOSES.

3. THE HVAC WILL RETURN TO OCCUPIED MODE FOR 1 HOUR WHEN AN OVERRIDE BUTTON IS PRESSED.

RESTROOM EXHAUST FAN

4. THE RESTROOM EXHAUST FAN WILL BE CONTROLLED WITH THE RESTROOM'S OCCUPANCY SENSORS; 10-MINUTE OFF-DELAY.

FAN CONTROL

5. THE FAN WILL BE SET TO RUN CONTINUOUS DURING STORE OPEN HOURS TO PROVIDE VENTILATION AND AIR CIRCULATION.

6. IN SETBACK OR UNOCCUPIED MODE, THE FAN WILL RUN ONLY WHEN THERE IS A CALL FOR HEATING OR COOLING.

COOLING CONTROL

7. THE INITIAL SET POINT FOR OCCUPIED HOURS WILL BE 75 DEGREES.

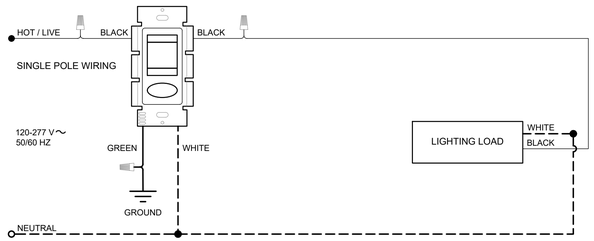
8. THE INITIAL SET POINT FOR UNOCCUPIED HOURS WILL BE 85 DEGREES.

9. AIR CONDITIONING SYSTEM WILL HAVE A MINIMUM ON AND MINIMUM OFF TIME OF TWO MINUTES TO PREVENT SHORT CYCLING.

HEATING CONTROL

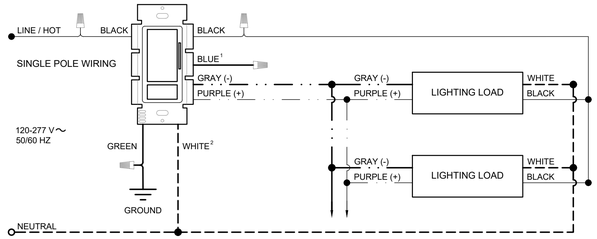
10. THE INITIAL SET POINT FOR OCCUPIED HOURS WILL BE 68 DEGREES.

11. THE INITIAL SET POINT FOR UNOCCUPIED HOURS WILL BE 55 DEGREES.



C3 OS - SENSOR SWITCH WSD-PDT WIRING DIAGRAM

NTS



1. WHEN USING CONTROLS IN SINGLE LOCATION INSTALLATIONS, CAP THE BLUE WIRE. DO NOT CONNECT THE BLUE WIRE TO ANY OTHER WIRING OR TO GROUND.
2. GREEN/YELLOW WIRE COVERED BY WHITE SLEEVE CONNECTS TO NEUTRAL.

B3 D3 - LUTRON MS-Z101 WIRING DIAGRAM

NTS

	DESCRIPTION	CONTROL FUNCTION
INTERIOR	SALES GENERAL LIGHTING	(1) *
	SALES ACCENT LIGHTING	(2) *
EXTERIOR	SIGNAGE	(2)
*	SWITCH SHALL BE PROGRAMMED FOR A MAXIMUM OPERATION OF 2 HOURS WHEN ACTIVATED BEYOND STORE CLOSE.	

B2 LIGHTING CONTROL FUNCTION MATRIX

NTS

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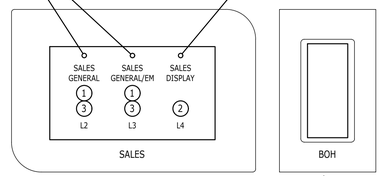
Building	Planning
Engineering	Public Works
Fire	Traffic

GENERAL LTS

1. SWITCH ENABLES AUTOMATIC CONTROL OF ALL GENERAL LIGHTING DURING STORE HOURS.
2. LIGHTS SHALL BLINK 5 MINUTES PRIOR TO AUTOMATICALLY TURNING OFF. PRESS ON/OFF TO PROVIDE OVERRIDE OF LIGHTS.
3. ALARM CONDITION FROM ADT SECURITY SYSTEM TURNS ON ALL GENERAL LIGHTING. LIGHTS WILL REMAIN ON UNTIL MANUALLY TURNED OFF.

ACCENT LTS

1. SWITCH ENABLES AUTOMATIC CONTROL OF ALL ACCENT LIGHTING DURING STORE HOURS.
2. PRESS ON/OFF TO PROVIDE OVERRIDE OF LIGHTS.



ENTOUCH
DLC
DIMMING & LOAD
CONTROLLER

A2 SWITCHBANK DETAIL

NTS

LIGHTING CONTROL SCHEDULE

CALLOUT	SYMBOL	DESCRIPTION	MODEL	NOTES
DLC	▭	ENTOUCH DIMMING & LOAD CONTROLLER	DLC	--
D3	ϕ3	LUTRON MAESTRO DIMMER SENSOR	MS-Z101-WH	0-10V DIMMING 8A
OS	O$	SENSOR SWITCH WALL MNTD OCCUPANCY SENSOR	WSD-PDT-WH	800W

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PUYALLUP, WA 98373

DESIGN TYPE: E1Y

PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

CLINTON LUCAS
STATE OF WASHINGTON
23036882
REGISTERED PROFESSIONAL ENGINEER
11/26/2024

PRCTI20241902

DATE: 11.11.2024

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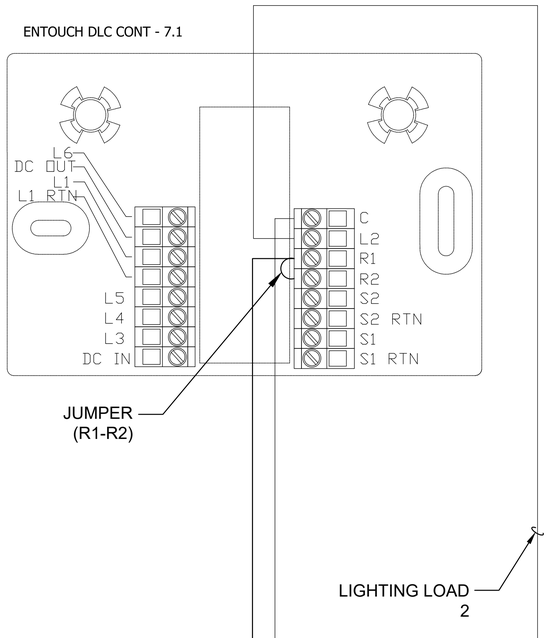
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(817) 901-5191

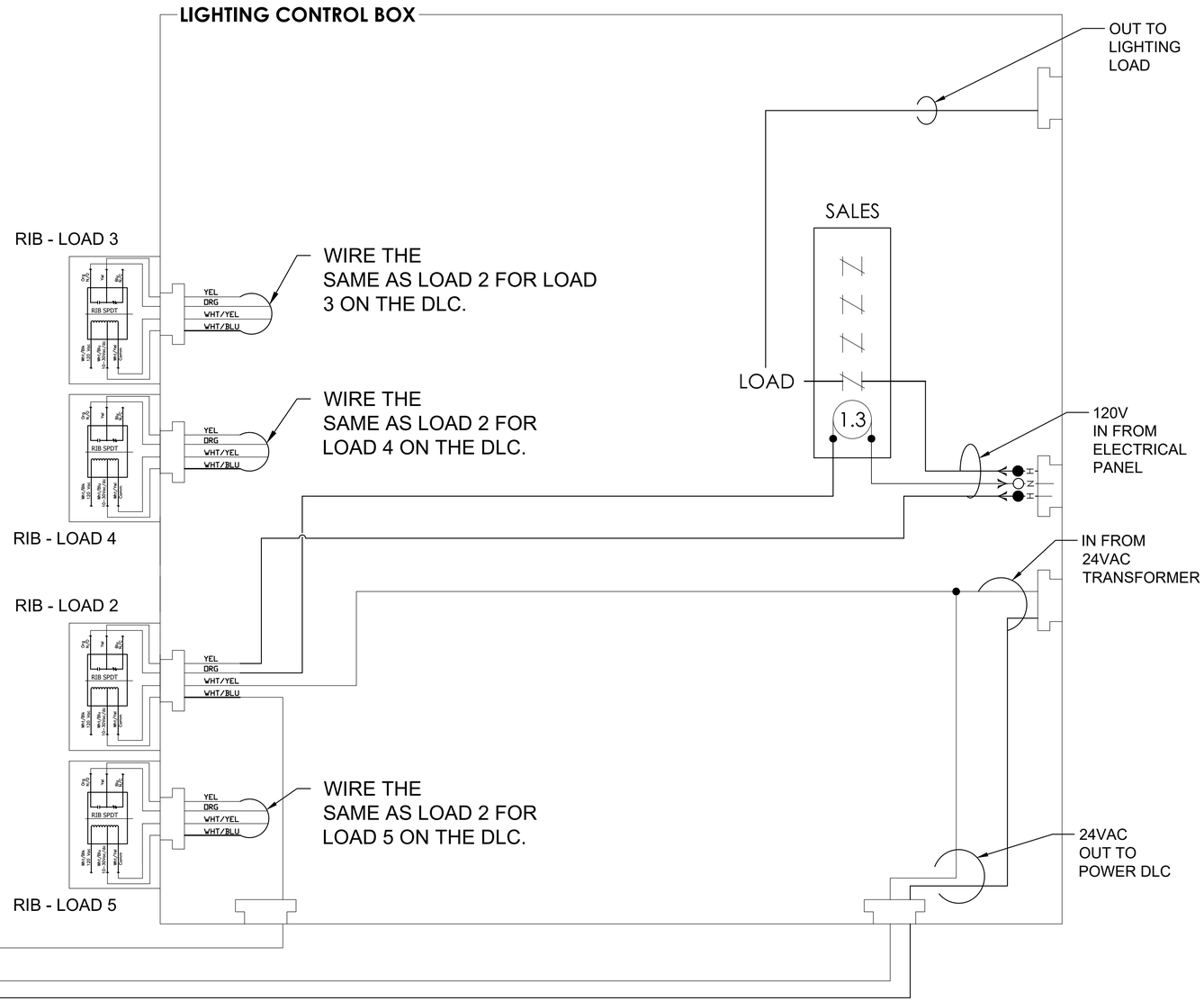
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LIGHTING CONTROLS

E113





LIGHTING SCHEDULE	
L1	DO NOT USE L1
L2	HALF SALES
L3	HALF SALES - EM
L4	SALES DISPLAY
L5	EXTERIOR
L6	SPARE

IMPORTANT NOTE:

DO NOT EXCEED 30 AMPS PER LIGHTING CONTACTOR.
10 AMPS CANNOT BE EXCEEDED ON ANY INDIVIDUAL LIGHTING RELAY.
EACH CIRCUIT SHOULD BE HALF THE AMPERAGE LOAD WHEN FULLY ENERGIZED.
*LOAD 1 IS **NOT** TO BE USED FOR LOAD CONTROL ON/OFF.*
DO NOT USE CAT5 CABLE FOR LOW VOLTAGE LIGHTING TO DLC

A3 LIGHTING CONTROL SCHEMATIC
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ENTOUCH LIGHTING CONTROLS

E114

ENTOUCH COMMISSIONING RESPONSIBILITIES

ITEMS BELOW THAT ARE NOT COMPLETED PRIOR TO ENTOUCH ARRIVAL WILL CAUSE A DELAY IN THE INSTALLATION OF THE EMS.

	DEVICE	QUANTITY	DEVICE LOCATION	PROVIDED BY	MOUNTING	BOX/RACEWAYS	DEVICE CABLE TYPE	INSTALL CABLE/WIRE TERMINATE BOTH ENDS	CHECKMARK TO VERIFY COMPLETION
HVAC INSTALLATION	ET1 STAT	SEE E117	SEE MECHANICAL DRAWINGS	ENTOUCH	MECHANICAL CONTRACTOR	ELECTRICAL CONTRACTOR	18 /10	MECHANICAL CONTRACTOR	☐
	SUPPLY AIR (DUCT SENSOR)	SEE E117	BOTTOM OF SUPPLY AIR DUCT	ENTOUCH	MECHANICAL CONTRACTOR	ELECTRICAL CONTRACTOR	18 /2	MECHANICAL CONTRACTOR	☐
	ZONE TEMP (10K TYPE 2)	SEE E117	SEE MECHANICAL DRAWINGS	ENTOUCH	MECHANICAL CONTRACTOR	ELECTRICAL CONTRACTOR	18 /2	MECHANICAL CONTRACTOR	☐
	BULLET SENSOR	SEE E117	SEE MECHANICAL DRAWINGS	ENTOUCH	MECHANICAL CONTRACTOR	ELECTRICAL CONTRACTOR	18 /2	MECHANICAL CONTRACTOR	☐
	Y3 - BASEBOARD HEAT/DEHUMIDIFICATION	SEE E117	SEE MECHANICAL DRAWINGS	ENTOUCH	MECHANICAL CONTRACTOR	ELECTRICAL CONTRACTOR	18 /2	MECHANICAL CONTRACTOR	☐
	DC IN/OUT	SEE E117	SEE MECHANICAL DRAWINGS	ENTOUCH	MECHANICAL CONTRACTOR	ELECTRICAL CONTRACTOR	18 /2	MECHANICAL CONTRACTOR	☐
	CAT5 RUN	SEE E117	SEE MECHANICAL DRAWINGS	RT VENDOR	RT VENDOR	RT VENDOR	CAT5/CAT6	RT VENDOR (T-MOBILE IT TEAM)	☐
LIGHTING INSTALLATION	LIGHTING CONTROL MODULE (LCM)		SEE ELECTRICAL DRAWINGS	ENTOUCH	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	N/A	ELECTRICAL CONTRACTOR	☐
	DIMMING LIGHTING CONTROLLER (DLC)		SEE ELECTRICAL DRAWINGS	ENTOUCH	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	N/A	ELECTRICAL CONTRACTOR	☐
	REMOTE DIMMING MODULE (RDM)		SEE ELECTRICAL DRAWINGS	ENTOUCH	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	N/A	ELECTRICAL CONTRACTOR	☐
	CONTACTOR BOX		SEE ELECTRICAL DRAWINGS	ENTOUCH	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	N/A	ELECTRICAL CONTRACTOR	☐
	24VDC TRANSFORMER		SEE ELECTRICAL DRAWINGS	ENTOUCH	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	18 /2	ELECTRICAL CONTRACTOR	☐
	24VDC TRANSFORMER		SEE ELECTRICAL DRAWINGS	ENTOUCH	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	18 /2	ELECTRICAL CONTRACTOR	☐

INSTALLATION SUMMARY

1. EQUIPMENT DELIVERY
1.1. ENTOUCH SHALL PROVIDE THE EMS EQUIPMENT IN 1 SHIPMENT TO THE GC.
1.2. IT SHALL BE UP TO THE T-MOBILE PM TEAM TO SCHEDULE THE EMS EQUIPMENT DELIVERY.
1.3. T-MOBILE PM WILL NOTIFY ENTOUCH OF EMS EQUIPMENT DELIVERY. THE EQUIPMENT WILL BE SHIPPED WITHIN 2 DAYS OF NOTIFICATION.
1.4. A VALID REQUEST SHALL CONSIST OF THE FOLLOWING:
1.4.1. NAME AND PHONE NUMBER OF PERSON RESPONSIBLE FOR RECEIVING THE EMS EQUIPMENT AND STORE NUMBER.
1.4.2. A VALID SHIPPING ADDRESS (CONFIRMABLE BY THE DELIVERY AGENT).
2. INSTALLATION
2.1. IT SHALL BE UP TO THE T-MOBILE PM TEAM TO SCHEDULE INSTALLATION OF LOW VOLTAGE PORTION OF EMS WITH THE MC.
2.2. THE FOLLOWING ITEMS MUST BE COMPLETE PRIOR TO ENTOUCH ARRIVAL TO COMMISSION THE EMS; HVAC LOW VOLTAGE WIRING BY MC AND CAT5 CABLE BY RT VENDOR.
2.2.1. RTU'S POWERED UP AND RAN THROUGH START UP BY THE M.C.
2.2.2. ALL BOXES AND CONDUIT FOR EMS DEVICES IN PLACE AND COMPLETED BY THE E.C.
2.2.3. ALL ELECTRICAL PLUGS INSTALLED.
3. NON-STANDARD MECHANICAL DESIGNS
3.1. THIS DESIGN APPLIES TO USE OF STANDARD PACKAGE ROOFTOP UNITS.
3.2. ADDITIONAL DESIGN DOCUMENTS AND MATERIAL WILL BE REQUIRED FOR CONTROLLING OTHER MECHANICAL EQUIPMENT SUCH AS BOILERS, CHILLERS, VAV AIR HANDLERS AND TERMINAL BOXES.
4. COMMISSIONING
4.1. ENTOUCH IS TO USE THE RECON REPORT TO TRACK WHEN THEY SHOULD ARRIVE ONSITE FOR COMMISSIONING. FOR NEW STORES ENTOUCH IS TO ARRIVE THE WEEK OF TURNOVER, FOR REBUILDS/REMODELS ENTOUCH IS TO ARRIVE AFTER TURNOVER BUT PRIOR TO OPEN.

CONTACT INFORMATION :
PLEASE DIRECT SHIPPING REQUESTS TO SALES@ENTOUCHCONTROLS.COM

SEQUENCE OF OPERATIONS FOR HVAC OPERATION

CALL FOR COOL WHEN OCCUPIED AND UNOCCUPIED
THERMOSTAT ENGAGES Y1 (STAGE1 COMPRESSOR) AND G (FAN) WHEN THE TEMPERATURE IS 1 DEGREE ABOVE THE SET POINT. THE FIRST STAGE OF COOLING WILL REMAIN ENGAGED UNTIL THE TEMPERATURE IS 0.5 DEG BELOW THE COOL SET POINT. THE SECOND STAGE OF COOLING (Y2) WILL ENGAGE WHEN THE SPACE TEMPERATURE IS 2 DEG ABOVE THE COOLING SET POINT AND WILL DIS-ENGAGE ONCE THE SPACE TEMPERATURE IS WITHIN 1 DEG OF THE COOLING SET POINT.

CALL FOR HEAT WHEN OCCUPIED AND UNOCCUPIED
THERMOSTAT ENGAGES W1 (STAGE1 HEATING) AND G (FAN) WHEN THE TEMPERATURE IS 1 DEGREE BELOW THE SET POINT. THE FIRST STAGE OF HEATING WILL REMAIN ENGAGED UNTIL THE TEMPERATURE IS 0.5 DEG ABOVE THE HEAT SET POINT. THE SECOND STAGE OF HEATING WILL ENGAGE WHEN THE SPACE TEMPERATURE IS 2 DEG BELOW THE HEATING SET POINT AND WILL DIS-ENGAGE ONCE THE SPACE TEMPERATURE IS WITHIN 1 DEG OF THE HEATING SET POINT.

NO CALLS FOR HEAT OR COOL
WHEN NO CALL FROM THE THERMOSTAT THE HVAC SYSTEM WILL REMAIN IDLE. THE FAN FOR THE HVAC UNIT WILL REMAIN OFF.

SEQUENCE OF OPERATIONS FOR LIGHTING

ZONE 1 - HALF SALES LIGHTS TIMECLOCK
LIGHTS ON (9AM - 9PM ADJUSTABLE): TIMECLOCK NORMALLY CLOSED CONTACT OPENS AND DE-ENERGIZES SCENE 1 CONTACTOR (S). CONTACTOR(S) NORMALLY CLOSED CONTACTS CLOSE AND ENERGIZE THE LIGHTS.

ZONE 2 - HALF SALES - EM LIGHTS TIMECLOCK
LIGHTS ON (9AM - 9PM ADJUSTABLE): TIMECLOCK NORMALLY CLOSED CONTACT OPENS AND DE-ENERGIZES SCENE 2 CONTACTOR(S). CONTACTOR(S) NORMALLY CLOSED CONTACTS CLOSE AND ENERGIZE LIGHTS.

ZONE 3 - SALES DISPLAY LIGHTS TIMECLOCK
LIGHTS ON (9AM - 9PM ADJUSTABLE): TIMECLOCK NORMALLY CLOSED CONTACT OPENS AND DE-ENERGIZES SCENE 3 CONTACTORS(S). CONTACTOR(S) NORMALLY CLOSED CONTACTS CLOSE AND ENERGIZE LIGHTS.

ZONE 4 - EXTERIOR SIGNS TIMECLOCK
LIGHTS ON (30 MIN PRIOT TO SUNSET - 30 MIN AFTER SUNRISE ADJUSTABLE): TIMECLOCK NORMALLY CLOSED

OVERRIDE BUTTON FOR ZONE 1-4
OVERRIDE BUTTON ENABLED: OVERRIDE BUTTON TOGGLES CURRENT STATE FOR EACH SCENE. EACH BUTTON ONLY TOGGLES ASSOCIATED SCENE

GENERAL E.M.S. CONSTRUCTION NOTES

M.C. SHALL PROVIDE THE INSTALLATION LABOR AND MATERIALS TO INSTALL THE LOW VOLTAGE PORTION OF THE CUSTOMER SUPPLIED EMS SYSTEM ACCORDING TO THE EMS SCHEDULES AND THE FOLLOWING:
1. INSTALL EMS DEVICES AT LOCATIONS SHOW ON THE MECHANICAL DRAWINGS AND MOUNT ACCORDING TO THE EMS DETAILS.
2. PROVIDE AND INSTALL THE HVAC LOW VOLTAGE CABLING FROM THE EMS DEVICES TO THE RTU'S
3. TERMINATE THE HVAC LOW VOLTAGE CABLING AT BOTH ENDS.
4. CLEARLY IDENTIFY (LABEL) THE HVAC LOW VOLTAGE CABLES AT BOTH ENDS.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE INSTALLATION LABOR AND MATERS TO INSTALL THE LINE VOLTAGE PORTION OF THE CUSTOMER SUPPLIES EMS SYSTEM ACCORDING TO THE EMS SCHEDULES AND THE FOLLOWING:
5. PROVIDE AND INSTALL (1) EACH 120V, 20A CIRCUIT TO POWER THE LCM PANEL, LABEL LCM BREAKER EMS-2.
6. PROVIDE AND INSTALL (1) DUBLEX 15A ELECTRICAL PLUG ACCORDING TO THE EMS DRAWING FOR MODEM.

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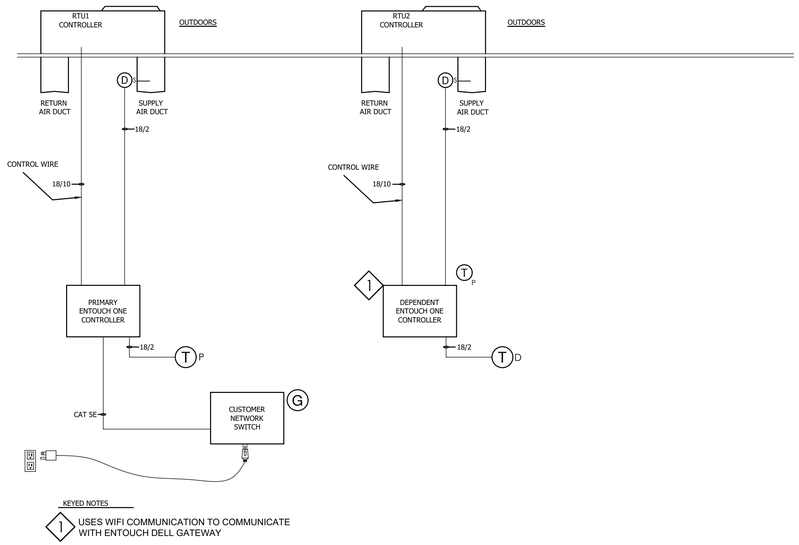
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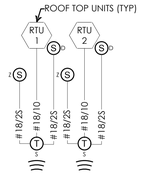
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ENTOUCH COMMISSIONING RESPONSIBILITIES

E116

EMS SINGLE LINE DIAGRAM



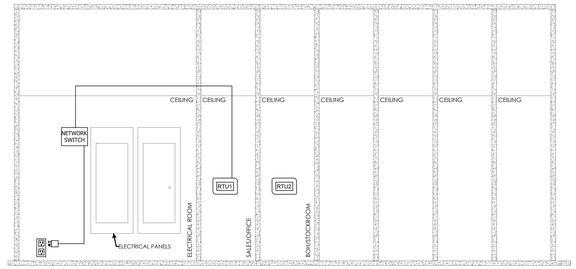


B4 EMS DIAGRAM
NTS

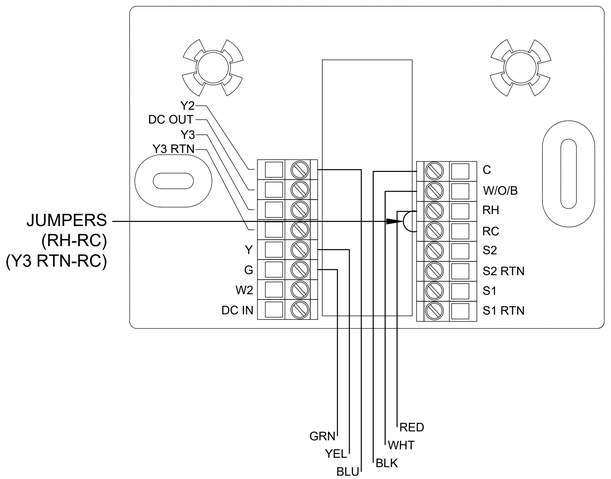
B3 MECHANICAL CONTROLS SYSTEM ARCHITECTURE
NTS

LEGEND

SYMBOL	DESCRIPTION	NOTES
T D	ENTOUCH ONE DEPENDENT THERMOSTAT : UNIT THERMOSTAT CONTROLLER	
T P	ENTOUCH ONE PRIMARY THERMOSTAT: THERMOSTAT CONTROLLER CONFIGURED AS NETWORK AND SYSTEM CONTROLLER	
S D	SUPPLY DUCT TEMPERATURE SENSOR	
S Z	ZONE TEMPERATURE SENSOR	
G	ENTOUCH CRADLEPOINT: CELLULAR GATEWAY TO BE CONNECTED TO MASTER CONTROLLER WITH CAT5	



B2 LEGEND/RISER DIAGRAM
NTS



NOTES:

1. WIRE SUPPLY AIR SENSOR TO ENTOUCH THERMOSTAT AT S2 AND S2 RTN USING $\frac{18}{2}$ WIRE.
2. WIRE ZONE TEMP SENSOR TO ENTOUCH THERMOSTAT ON S1 AND S1 RTN USING $\frac{18}{2}$ WIRE.
3. WIRE ENTOUCH THERMOSTAT TO RTU TERMINAL STRIP USING $\frac{18}{10}$ WIRE.

A4 RTU WIRING DIAGRAM
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ENTOUCH EMS WIRING DIAGRAMS

E117

EMS SCOPE AND RESPONSIBILITIES

EMS INSTALLER RESPONSIBILITIES

1. THE FOLLOWING ARE RESPONSIBILITIES OF THE G.C. AND EMS INSTALLER DURING THE INSTALLATION PHASE.

a. G.C. WILL INSTALL ENTOUCH THERMOSTATS AS PART OF STANDARD SCOPE OF WORK.

b. G.C. WILL PULL 18 GAUGE 10-CONDUCTOR STANDARD THERMOSTAT WIRE FROM HVAC UNIT TO WALL WHERE EACH ENTOUCH ONE THERMOSTAT WILL BE MOUNTED. PULL 2-CONDUCTOR 18 GAUGE WISTED/SHIELDED WIRE FROM HVAC SUPPLY AIR DUCT LOCATION TO WHERE ENTOUCH ONE THERMOSTAT WILL BE MOUNTED TO WALL.

c. G.C. WILL PULL 2-CONDUCTOR 18 GAUGE TWISTED/SHIELDED WIRE FROM SPACE WHERE REMOTE SENSOR IS LOCATED (IF APPLICABLE) TO WALL WHERE ENTOUCH ONE THERMOSTAT WILL BE MOUNTED.

d. IF HVAC EQUIPMENT IS HEAT PUMP OR CONVENTIONAL, G.C. WILL PROGRAM THE OUTPUTS THROUGH THE TOUCH SCREEN WITH THE INSTALL WIZARD ON ENTOUCH THERMOSTATS.

e. EMS INSTALLER WILL INSTALL ENERGY MONITORING EQUIPMENT.

f. EMS INSTALLER SHALL MOUNT EITHER ENTOUCH IBR DURING INSTALLATION TO CONFIRM CONNECTION TO ENTOUCH SERVERS.

g. EMS INSTALLER SHALL INSURE THAT SITE IS ON-LINE THROUGH THE CRADLEPOINT CELLULAR ROUTER AND PERFORM ALL FINAL COMMISSIONING VIA THE INSTALLATION APP. INCLUDING SCHEDULING AND PROGRAMMING FUNCTIONS. INSTALLER MUST CONTACT COMMISSIONING LINE (PH: 469-291-9772) TO PERFORM COMMISSIONING DUTIES.

h. EMS INSTALLER SHALL TEST, CALIBRATE, AND COMMISSION ALL HVAC SEQUENCES FOR OPERATION (SITE ENVIRONMENT PERMITTING).

SEQUENCE OF OPERATIONS FOR HVAC OPERATION

CALL FOR COOL WHEN OCCUPIED AND UNOCCUPIED

THERMOSTAT ENGAGES Y1 (STAGE1 COMPRESSOR) AND G (FAN) WHEN THE TEMPERATURE IS 1 DEGREE ABOVE THE SET POINT. THE FIRST STAGE OF COOLING WILL REMAIN ENGAGED UNTIL THE TEMPERATURE IS 0.5 DEG BELOW THE COOL SET POINT. THE SECOND STAGE OF COOLING (Y2) WILL ENGAGE WHEN THE SPACE TEMPERATURE IS 2 DEG ABOVE THE COOLING SET POINT AND WILL DIS-ENGAGE ONCE THE SPACE TEMPERATURE IS WITHIN 1 DEG OF THE COOLING SET POINT.

CALL FOR HEAT WHEN OCCUPIED AND UNOCCUPIED

THERMOSTAT ENGAGES W1 (STAGE1 HEATING) AND G (FAN) WHEN THE TEMPERATURE IS 1 DEGREE BELOW THE SET POINT. THE FIRST STAGE OF HEATING WILL REMAIN ENGAGED UNTIL THE TEMPERATURE IS 0.5 DEG ABOVE THE HEAT SET POINT. THE SECOND STAGE OF HEATING WILL ENGAGE WHEN THE SPACE TEMPERATURE IS 2 DEG BELOW THE HEATING SET POINT AND WILL DIS-ENGAGE ONCE THE SPACE TEMPERATURE IS WITHIN 1 DEG OF THE HEATING SET POINT.

NO CALLS FOR HEAT OR COOL

WHEN NO CALL FROM THE THERMOSTAT THE HVAC SYSTEM WILL REMAIN IDLE. THE FAN FOR THE HVAC UNIT WILL REMAIN OFF.

ENTOUCH CONTACT

FOR ACCOUNT QUESTIONS CONTACT:

EMAIL: Account_Manager@entouchcontrols.com

ENERGY MANAGEMENT SYSTEM NOTES

1. HVAC SYSTEMS SHALL BE CONTROLLED AND MONITORED BY A LOCAL ENERGY MANAGEMENT SYSTEM UTILIZING ENTOUCH COMMUNICATING THERMOSTATS, CONTROLLERS, AND COMPONENTS AS DESCRIBED BELOW. THE SYSTEM SHALL INCLUDE COMMUNICATIONS INTERFACE. WHICH WILL CONNECT THE LOCAL BUILDING AUTOMATION SYSTEM TO THE ENTOUCH ENTERPRISE PORTAL.

2 IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WORK OF THIS PROJECT WITH WORK TO BE PROVIDED BY EMS INSTALLER IN ORDER TO PROVIDE A COMPLETE AND OPERABLE ENERGY MANAGEMENT SYSTEM. THE NOTES AND THE BAS SYSTEM SCHEMATIC ON THIS SHEET ARE INTENDED TO CLARIFY THE CONTRACTOR'S RESPONSIBILITIES.

3. CERTAIN WORK IS TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR DURING THE CONSTRUCTION PHASE. SEE ELECTRICAL PLAN.

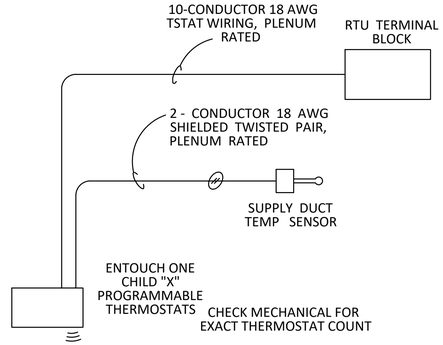
4. THE FOLLOWING MATERIALS WILL BE PROVIDED BY SUBCONTRACTOR:

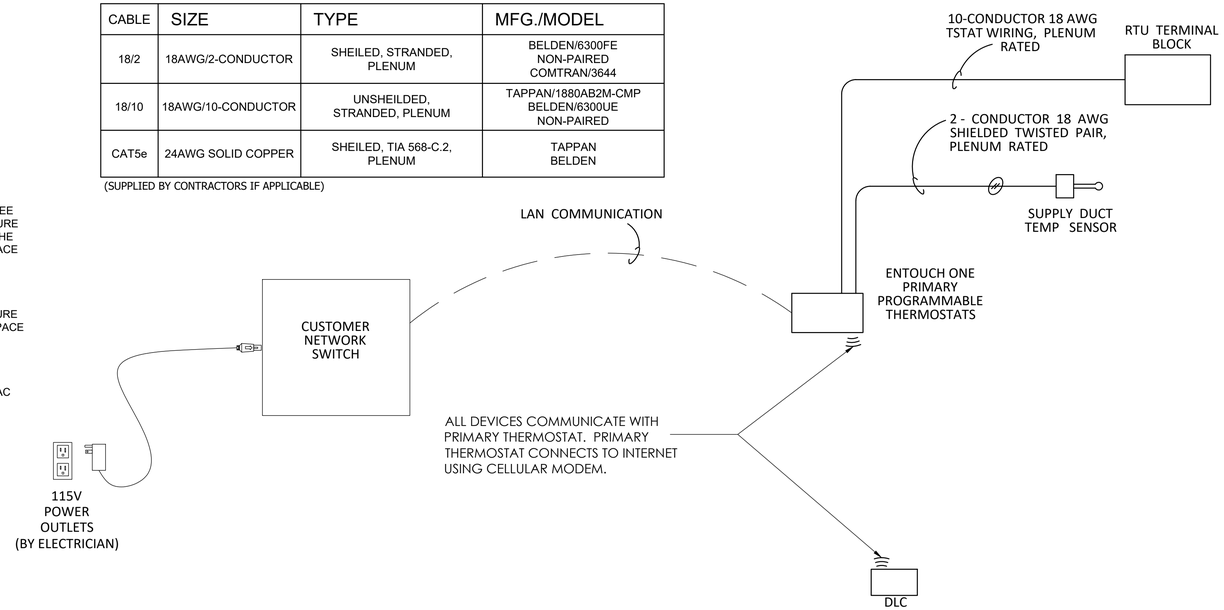
- ENTOUCH ONE MULTI-STAGE PROGRAMMABLE THERMOSTATS WITH WIRELESS COMMUNICATIONS
- DUCT TEMPERATURE SENSORS FOR RTU SUPPLY AIR TEMPERATURE
- REMOTE ROOM TEMPERATURE SENSORS IF APPLICABLE (SEE M PLAN)

CABLE SCHEDULE

CABLE	SIZE	TYPE	MFG./MODEL
18/2	18AWG/2-CONDUCTOR	SHEILED, STRANDED, PLENUM	BELDEN/6300FE NON-PAIRED COMTRAN/3644
18/10	18AWG/10-CONDUCTOR	UNSHEILDED, STRANDED, PLENUM	TAPPAN/1880AB2M-CMP BELDEN/6300UE NON-PAIRED
CAT5e	24AWG SOLID COPPER	SHEILED, TIA 568-C.2, PLENUM	TAPPAN BELDEN

(SUPPLIED BY CONTRACTORS IF APPLICABLE)





A3 EMS SCHEMATIC

NTS

City of Puyallup
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Engineering	Public Works
Fire	Traffic

T-Mobile

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SOUTH MERIDIAN & 43RD AVE SE
4227 S MERIDIAN SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y

PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

CLAYTON LUCAS
STATE OF WASHINGTON
23036582
REGISTERED PROFESSIONAL ENGINEER
11/26/2024

PRCTI20241902

DATE: 11.11.2024

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GEMINI ENGINEERING GROUP
101 Nightlinger Lane
Millsap, TX 76066
(817) 901-5191

##	DESCRIPTION	DATE

DATE: 11.11.2024
DRAWN BY: HO

EMS SCOPE AND RESPONSIBILITIES

E118

PANEL A (EXISTING)

Service: 120/208 Volts 3 Phase 4 Wire Cabinets: Surface Mounted
Mains: 225 Amp MLO Total Watts: 21,763 NEMA 1

REM	CKT	DESCRIPTION	WATTS	WIRE	BKR	A	B	C	BKR	WIRE	DESCRIPTION	WATTS	CKT	REM
L2	1	LTG-SALES GENERAL	708	12	1/20	X			1/20	12	SHOW WINDOW REC	1200	2	
L3	3	LTG-SALES GENERAL/EM	524	12	1/20		X		1/20	12	DIGITAL CLOUD REC	334	4	
L4	5	LTG-SALES DISPLAY	600	12	1/20			X	1/20	12	PORTAL CEILING REC	900	6	
	7	LTG-BOH	447	12	1/20	X			1/20	12	MICROWAVE REC	1200	8	
	9	LCB	180	12	1/20		X		1/20	12	REFRIG/COUNTER REC	680	10	
	11	TELE BOARD REC	360	12	1/20			X	1/20	12	BOH GENERAL REC	1080	12	
	13	TELE BOARD REC	360	12	1/20	X			1/20	12	MNGR/SAFE/TCRT/RC	1260	14	
	15	TELE BOARD REC	360	12	1/20		X		1/20	12	DASH BD / PRINTER REC	540	16	
	17	TELE BOARD REC	360	12	1/20			X	1/20	12	WATER HEATER	1650	18	
	19	TELE BOARD REC	360	12	1/20	X			1/20	12	RECIRCULATION PUMP	200	20	
	21	SPARE		12	1/20		X		1/20	12	HAND DRYER	1650	22	LO
	23	SPARE		12	1/20			X	1/20	12	HAND DRYER	1650	24	LO
	25	SPACE		12	1/20	X			1/20	12	EWC REC	370	26	
	27	SPACE		12	1/20		X		1/20	12	PRIVACY POD REC	540	28	
	29	SPACE		12	1/20			X	1/20	12	SPACE		30	
HR	31	MINI-SPLIT	835	10	2/25	X			1/20	12	SPARE		32	
	33		835				X		1/20	12	SPARE		34	
	35	SPARE		12	1/20			X	1/20	12	SPARE		36	
	37	SPARE		12	1/20	X						60	38	
L5	39	SIGN	1200	12	1/20		X		3/20	12	TVSS	60	40	
L5	41	SIGN	1200	12	1/20			X				60	42	

TOTAL LOAD PHASE 'A' 7000
TOTAL LOAD PHASE 'B' 6903
TOTAL LOAD PHASE 'C' 7860

TOTAL LOAD ALL PHASES 21763 WATTS
60.45 AMPS

REMARKS
(L#) LIGHTING CONTACTOR
(LO) LOCK-OFF DEVICE
(HR) HACR RATED CB

ALL BREAKERS TO BE 20A BOLT-ON UNLESS NOTED OTHERWISE

PANEL L (EXISTING)

Service: 120/208 Volts 3 Phase 4 Wire Cabinets: Surface Mounted
Mains: 225 Amp MLO Total Watts: 49,336 NEMA 1

REM	CKT	DESCRIPTION	WATTS	WIRE	BKR	A	B	C	BKR	WIRE	DESCRIPTION	WATTS	CKT	REM
	1		5280			X						5280	2	
HR	3	RTU-1	5280	6	3/50		X		3/50	6	RTU-2	5280	4	HR
	5		5280					X				5280	6	
	7	DUCT DET/RTU GFI REC	760	12	1/20	X			1/20	12	WALL REC PLAN WEST	1620	8	
	9	SECURITY REC	180	12	1/20		X		1/20	12	WALL REC PLAN WEST	1260	10	
	11	XF310 REC	360	12	1/20			X	1/20	12	WALL REC PLAN NORTH	1620	12	
	13	PORTAL WALL REC	360	12	1/20	X			1/20	12	WALL REC PLAN WEST	1620	14	
	15	GRAB N GO REC	360	12	1/20		X		1/20	12	WALL REC PLAN WEST	1260	16	
	17	OEM TABLE REC	360	12	1/20			X	1/20	12	TV MONITOR REC	360	18	
	19	WORKSHOP TABLE REC	1440	12	1/20	X			1/20	12	TV MONITOR REC	360	20	
	21	DIGITAL DISP BACK WALL	1338	12	1/20		X		1/20	12	TV MONITOR REC	360	22	
	23	DIGITAL DISP BACK WALL	1338	12	1/20			X	1/20	12	GENERAL REC	720	24	
	25	DEMO DEPOT REC	900	12	1/20	X			1/20	12	SPARE		26	
	27	OPS DEPOT REC	900	12	1/20		X		1/20	12	SPARE		28	
	29	SPARE		12	1/20			X	1/20	12	SPARE		30	
	31	SPARE		12	1/20	X			1/20	12	SPARE		32	
	33	SPARE		12	1/20		X		1/20	12	SPARE		34	
	35	SPARE		12	1/20			X	1/20	12	SPARE		36	
	37		60			X			1/20	12	SPARE		38	
	39	TVSS	60	12	3/20		X		1/20	12	SPARE		40	
	41		60					X	1/20	12	SPARE		42	

TOTAL LOAD PHASE 'A' 17680
TOTAL LOAD PHASE 'B' 16278
TOTAL LOAD PHASE 'C' 15378

TOTAL LOAD ALL PHASES 49336 WATTS
137.04 AMPS

REMARKS
(L#) LIGHTING CONTACTOR
(LO) LOCK-OFF DEVICE
(HR) HACR RATED CB

ALL BREAKERS TO BE 20A BOLT-ON UNLESS NOTED OTHERWISE

PANEL A - ELECTRICAL LOAD SUMMARY

120/208 3PH - 4W

LOAD DESCRIPTION	CONNECTED LOAD (WATTS)	DEMAND FACTOR	DEMAND LOAD (WATTS)	DEMAND LOAD (AMPS)
LIGHTING	2279	1.25	2849	
RECEPTACLES	10284	NOTE #1	10142	
WATER HEATERS	1650	1.25	2063	
SIGNAGE	2400	1.25	3000	
MISC.	3480	1.00	3480	
HVAC	1670	NOTE #2	2088	
TOTAL	21763		23621	66

NOTES:
1. 100% OF FIRST 10,000 WATTS , PLUS 50% OF REMAINING LOAD.
2. 100% OF A/C LOAD, PLUS 25% OF HIGHEST LOAD.

PANEL L - ELECTRICAL LOAD SUMMARY

120/208 3PH - 4W

LOAD DESCRIPTION	CONNECTED LOAD (WATTS)	DEMAND FACTOR	DEMAND LOAD (WATTS)	DEMAND LOAD (AMPS)
LIGHTING	60	1.25	76	
RECEPTACLES	17476	NOTE #1	13738	
WATER HEATERS	0	1.25	0	
SIGNAGE	0	1.25	0	
MISC.	180	1.00	180	
HVAC	31680	NOTE #2	39600	
TOTAL	49396		53594	149

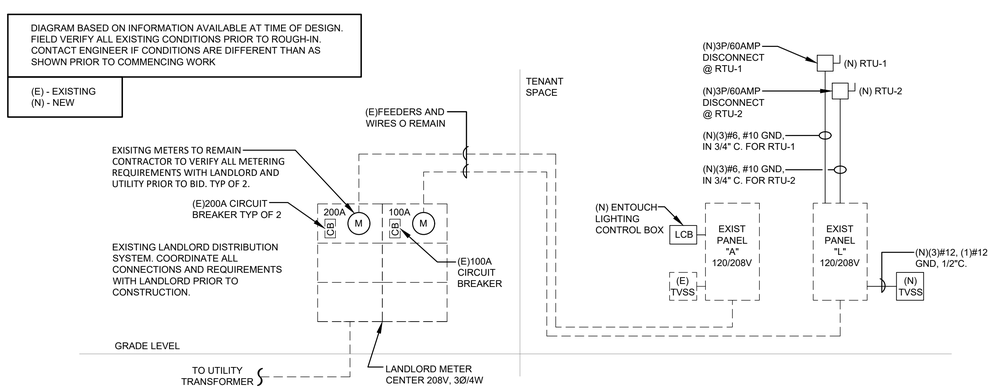
NOTES:
1. 100% OF FIRST 10,000 WATTS , PLUS 50% OF REMAINING LOAD.
2. 100% OF A/C LOAD, PLUS 25% OF HIGHEST LOAD.

B3 PANEL SCHEDULES

NTS

DIAGRAM BASED ON INFORMATION AVAILABLE AT TIME OF DESIGN. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO ROUGH-IN. CONTACT ENGINEER IF CONDITIONS ARE DIFFERENT THAN AS SHOWN PRIOR TO COMMENCING WORK

(E) - EXISTING
(N) - NEW



A4 ONE LINE DIAGRAM

NTS

TVSS SCHEDULE

DESCRIPTION	MODEL
EATON SPC SERIES	SPC100208Y3P
TVSS IS OWNER FURNISHED, GC INSTALLED AS PART OF THE LIGHTING PACKAGE.	

GENERAL NOTES

NOTE REGARDING EXAMINATION OF PREMISES/FIELD CONDITIONS:

DESIGN DRAWINGS ARE SCHEMATIC. ONCE ONSITE GENERAL CONTRACTOR IS TO INSPECT EXISTING FIELD CONDITIONS AND FAMILIARIZE HIMSELF WITH ANY CONDITIONS THAT MAY AFFECT HIS WORK IN ANY MANNER PRIOR TO START OF CONSTRUCTION.

IF THE GENERAL CONTRACTOR FINDS THAT THERE ARE DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE INFORMATION SHOWN ON THESE DRAWINGS, GC IS TO NOTIFY THE TENANT'S REPRESENTATIVE AND ARCHITECT OF THOSE DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.

RFI SHALL BE SUBMITTED FOR ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

NOTE REGARDING ELECTRICAL DISTRIBUTION SYSTEM:

THE ELECTRICAL RISER DIAGRAM INDICATED HAS BEEN PROPERLY DESIGNED TO ACCOMMODATE TENANT'S POWER REQUIREMENTS AND MEETS ALL APPLICABLE BUILDING CODES. IT IS THE RESPONSIBILITY OF THE GC TO VERIFY ALL EXISTING CONDITIONS AND DETERMINE IF ANY EXISTING EQUIPMENT AND WIRING IS SUITABLE FOR REUSE IN THE SYSTEM PRIOR TO START OF CONSTRUCTION.

ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO RESULT IN A COMPLETE AND LEGAL INSTALLATION INCLUDING THE UPGRADING AND/OR MODIFICATION OF THE EXISTING SERVICE FEEDERS, CONDUITS AND TAP-INS EXTENDED TO PROPER POINT OF ORIGIN AS COORDINATED WITH THE LANDLORD.

1. GENERAL CONTRACTOR TO VERIFY ALL METERING REQUIREMENTS WITH LANDLORD AND UTILITY PRIOR TO START OF CONSTRUCTION.
2. CONTRACTOR TO VERIFY EXACT DISTANCE AND ROUTING OF SERVICE FEEDERS FROM LANDLORD DISTRIBUTION/SERVICE ENTRANCE EQUIPMENT TO TENANT SPACE.
3. PROVIDE COMPLIANCE WITH NEC 110.26 "SPACES ABOUT ELECTRICAL EQUIPMENT."
4. PROVIDE COMPLIANCE WITH NEC 408.4 "CIRCUIT DIRECTORY OR CIRCUIT IDENTIFICATION."
5. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROPERLY BALANCE ALL BRANCH CIRCUITS BETWEEN THE PHASES OF THE SYSTEM REGARDLESS OF THE CIRCUITING INDICATED.
6. "ALL LOW VOLTAGE WIRING TO BE IN CONDUIT UNLESS OTHERWISE APPROVED BY AUTHORITY HAVING JURISDICTION."
7. GENERAL CONTRACTOR SHALL VERIFY ANY THIRD PARTY INSPECTIONS REQUIRED BY THE LOCAL JURISDICTION PRIOR TO START OF CONSTRUCTION.

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SOUTH MERIDIAN & 43RD AVE SE
4227 S MERIDIAN SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y
PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

CLAYTON LUCAS
STATE OF WASHINGTON
23036382
REGISTERED PROFESSIONAL ENGINEER
11/26/2024

PRCTI20241902

DATE: 11.11.2024

FUZION
9096 EAST BAHIA DRIVE
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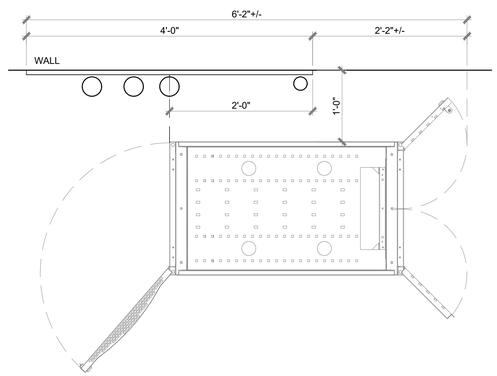
GEMINI ENGINEERING GROUP
101 Nightlinger Lane
Millsap, TX 76066
(817) 901-5191

##	DESCRIPTION	DATE

DATE: 11.11.2024
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ELECTRICAL PANELS

E301



PLAN VIEW

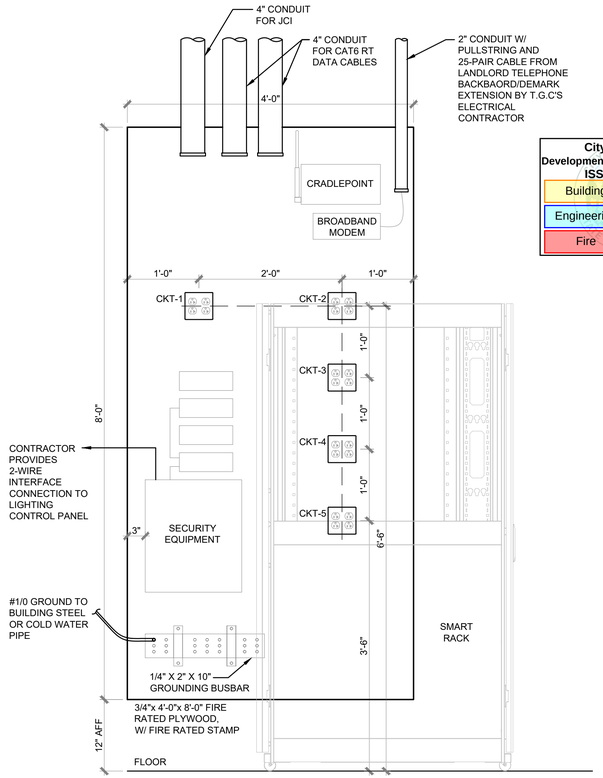
NOT TO SCALE

GENERAL NOTES

A. TELEPHONE SERVICE TO BUILDING IS PROVIDED BY LOCAL TELEPHONE COMPANY. FIELD VERIFY LOCATION OF BUILDING DEMARCATION POINT AND PROVIDE RACEWAY TO TENANT TELEPHONE BOARD AS INDICATED ON THESE DRAWINGS.
B. ALL WORK SHALL COMPLY WITH THE CURRENTLY ADOPTED CODES, ORDINANCES, AND AMENDMENTS.
C. ALL EQUIPMENT SHALL BE LISTED BY A RECOGNIZED TESTING LAB (i.e. U.L., ETC.)
D. PROVIDE PLENUM RATED WIRING WHERE REQUIRED. COMPLY WITH NEC 300.22.

TYPICAL INSTALL GUIDELINES FOR PLAY NETWORKS:

A. NO SPEAKER IN BACK ROOM
B. TOUCH UP DAMAGED CEILING TILES AFTER SPEAKER INSTALLS
C. SHELF SUPPLIED BY CONTRACTOR FOR PLAY NETWORKS EQUIPMENT
D. SATELLITE OR ANTENNA MUST BE APPROVED BY LANDLORD OR BUILDING ASSOCIATION
E. ALL DEVICES/PLATE COVERS SHALL BE WHITE IN COLOR.
F. CONTRACTOR TO INSTALL DEMARC SIGN FROM ROYAL SIGNS IN LOCATION SHOWN IMMEDIATELY UPON INSTALLATION OF PLYWOOD.



A3 TELEPHONE BOARD ELEVATION

NTS

City of Puyallup
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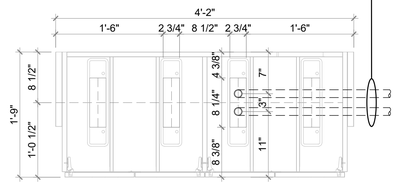
TELEPHONE BOARD ELEVATIONS

E302

XW304 KEY NOTES	
##	NOTES
1	GRAB AND GO FREESTANDING FIXTURE BY OWNER'S VENDOR. REFER TO FIXTURE MANUFACTURER INSTALLATION INSTRUCTIONS & SPECIFICATIONS FOR ATTACHMENT AND HARDWARE. CONTACT FIXTURE MANUFACTURER FOR QUESTIONS OR DISCREPANCIES.
2	FIXTURE ANCHORED TO FLOOR, TYP.
3	QUADPLEX POWER RECEPTACLE IN FIXTURE
4	1X DATA RECEPTACLE IN FIXTURE
5	ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND POWER CIRCUIT FROM PANEL TO J-BOX ABOVE CEILING. PROVIDE CONDUIT AND APPROVED MC CABLE FROM J-BOX TO FIXTURE STUB IN. E.C. TO PROVIDE RECEPTACLE AT BLANK J-BOX INSIDE FIXTURE AND MAKE FINAL CONNECTION TO CIRCUIT.
6	ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT & PULL STRING FROM TELEPHONE BOARD TO FIXTURE FOR DATA CABLING AND RJ45 CONNECTION BY OWNER'S VENDOR.
7	OWNER'S VENDOR TO PROVIDE CAT6 CABLING FOR DATA FROM TELCO CLOSET TO FIXTURE. PROVIDE PLASTIC GROMMETS TO FIT 3/4" KNOCK OUTS IN BLANK DUPLEX J-BOX AS REQ'D. PROVIDE RJ45 CONNECTORS AND TERMINATE CONNECTORS ON BOTH SIDES OF CAT6 CABLING. ROUTE CABLING THROUGH CASEWORK AND MAKE FINAL CONNECTION TO PC WITHIN FIXTURE.
GENERAL NOTES	
A	BLANK DUPLEX J-BOXES ARE PROVIDED AND SHIPPED LOOSE BY THE FIXTURE MANUFACTURER. ELECTRICAL CONTRACTOR TO INSTALL IN FIELD.

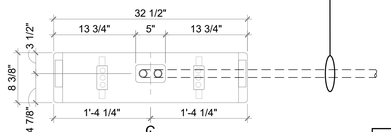
XF310 KEY NOTES	
##	NOTES
1	DOUBLE SIDED FREESYANDING 55" FIXTURE BY OWNER'S VENDOR. REFER TO FIXTURE MANUFACTURER INSTALLATION INSTRUCTIONS & SPECIFICATIONS FOR ATTACHMENT AND HARDWARE. CONTACT FIXTURE MANUFACTURER FOR QUESTIONS OR DISCREPANCIES.
2	FIXTURE ANCHORED TO FLOOR, TYP.
3	ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND POWER CIRCUIT FROM PANEL TO J-BOX ABOVE CEILING. PROVIDE CONDUIT AND APPROVED MC CABLE FROM J-BOX TO FIXTURE STUB IN. E.C. TO PROVIDE RECEPTACLE AT BLANK J-BOX INSIDE FIXTURE AND MAKE FINAL CONNECTION TO CIRCUIT.
4	ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT & PULL STRING FROM TELEPHONE BOARD TO FIXTURE FOR DATA CABLING AND RJ45 CONNECTION BY OWNER'S VENDOR.
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GENERAL NOTES	
A	BLANK DUPLEX J-BOXES ARE PROVIDED AND SHIPPED LOOSE BY THE FIXTURE MANUFACTURER. ELECTRICAL CONTRACTOR TO INSTALL IN FIELD.

ELECTRICAL CONTRACTOR TO PROVIDE UNDERGROUND CONDUIT VIA SAW CUT (TRENCH) TO FIXTURE.
- (1) 1" CONDUIT UNDER SLAB FOR POWER
- (1) 1" CONDUIT UNDER SLAB FOR DATA

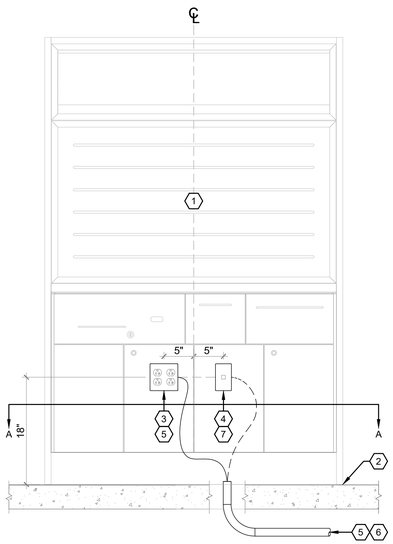


SECTION A
1" = 1'-0"

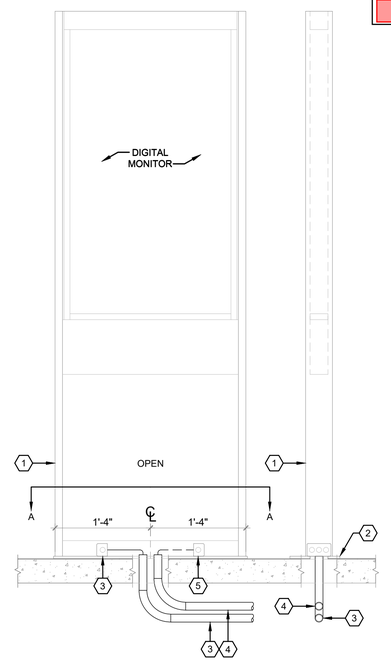
ELECTRICAL CONTRACTOR TO PROVIDE UNDERGROUND CONDUIT VIA SAW CUT (TRENCH) TO FIXTURE.
- (1) 1" CONDUIT UNDER SLAB FOR POWER
- (1) 1" CONDUIT UNDER SLAB FOR DATA



SECTION A
1" = 1'-0"



A2 XW304 GRAB & GO ELEVATION
1" = 1'-0"



A1 XF310 DETAILS
1" = 1'-0"

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SOUTH MERIDIAN & 43RD AVE SE

4227 S MERIDIAN SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y

PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

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11/26/2024

PRCTI20241902

DATE: 11.11.2024

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design@fuzionad.com
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www.fuzionad.com

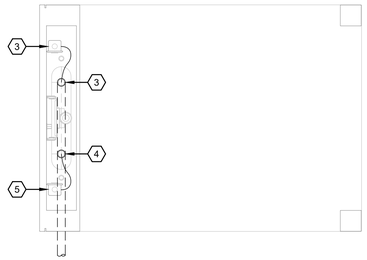
GEMINI ENGINEERING GROUP
101 Nightlinger Lane
Millsap, TX 76066
(817) 901-5191

##	DESCRIPTION	DATE

DATE: 11.11.2024
DRAWN BY: HO

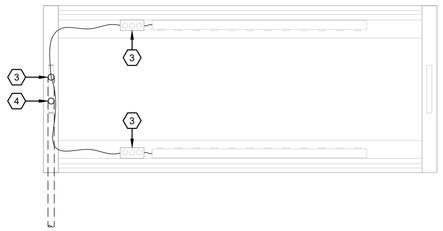
FIXTURE FEED WIRING DETAILS

E501



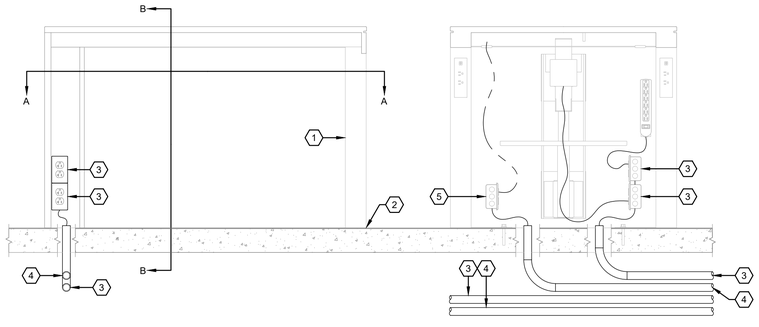
SECTION A

1" = 1'-0"



SECTION A

1" = 1'-0"

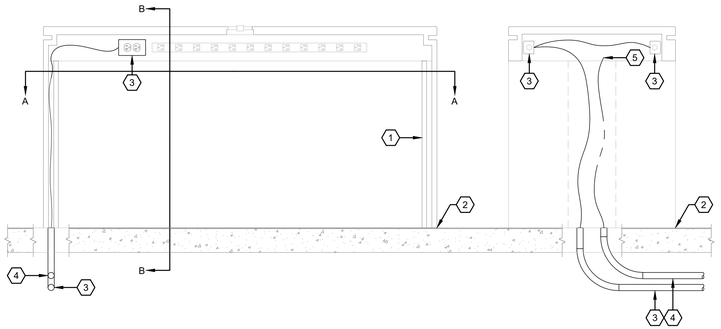


B4 XF407-10 WORKSHOP TABLE DETAILS

1" = 1'-0"

SECTION B

1" = 1'-0"

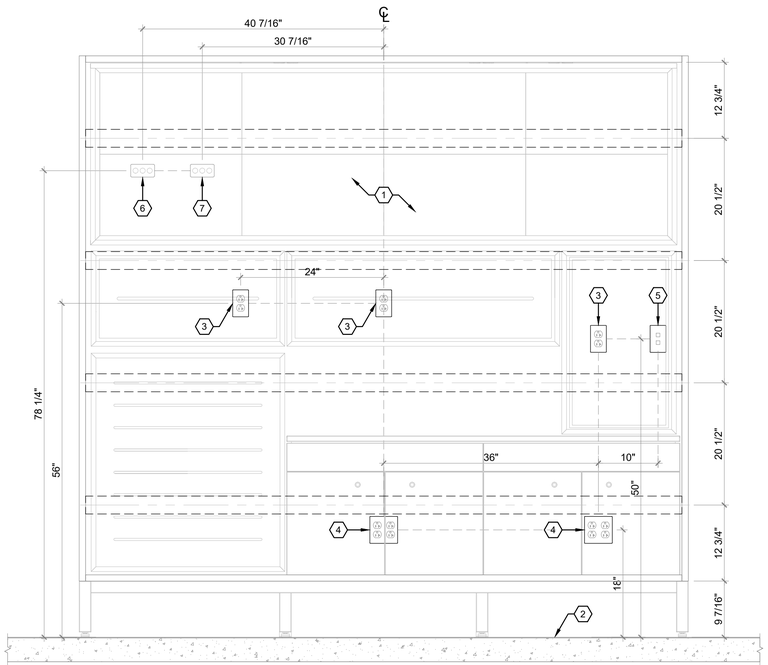


B3 XF212 OEM TABLE DETAILS

1" = 1'-0"

SECTION B

1" = 1'-0"



A3 XW181 / XW183 OEM BENTO 1&2 (RIGHT) ELEVATION

1" = 1'-0"

OEM/WORKSHOP TABLE KEY NOTES	
##	NOTES
1	FLOOR FIXTURE BY OWNER'S VENDOR. REFER TO FIXTURE MANUFACTURER INSTALLATION INSTRUCTIONS & SPECIFICATIONS FOR ATTACHMENT AND HARDWARE. CONTACT FIXTURE MANUFACTURER FOR QUESTIONS OR DISCREPANCIES.
2	FIXTURE ANCHORED TO FLOOR, TYP.
3	ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND POWER CIRCUIT FROM PANEL TO J-BOX ABOVE CEILING. PROVIDE CONDUIT AND APPROVED MC CABLE FROM J-BOX TO FIXTURE STUB IN. E.C. TO PROVIDE RECEPTACLE AT BLANK J-BOX INSIDE FIXTURE AND MAKE FINAL CONNECTION TO CIRCUIT.
4	ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT & PULL STRING FROM TELEPHONE BOARD TO FIXTURE FOR DATA CABLING AND RJ45 CONNECTION BY OWNER'S VENDOR.
5	OWNER'S VENDOR TO PROVIDE CAT6 CABLING FOR DATA FROM TELCO CLOSET TO FIXTURE. PROVIDE PLASTIC GROMMETS AS REQ'D. PROVIDE RJ45 CONNECTORS AND TERMINATE CONNECTORS ON BOTH SIDES OF CAT6 CABLING. ROUTE CABLING THROUGH CASEWORK AND MAKE FINAL CONNECTIONS WITHIN FIXTURE.
GENERAL NOTES	
A	BLANK DUPLEX J-BOXES ARE PROVIDED AND SHIPPED LOOSE BY THE FIXTURE MANUFACTURER. ELECTRICAL CONTRACTOR TO INSTALL IN FIELD.

OEM BENTO KEY NOTES	
##	NOTES
1	WALL DISPLAY FIXTURE BY OWNER'S VENDOR. REFER TO FIXTURE MANUFACTURER INSTALLATION INSTRUCTIONS & SPECIFICATIONS FOR ATTACHMENT AND HARDWARE. CONTACT FIXTURE MANUFACTURER FOR QUESTIONS OR DISCREPANCIES.
2	FINISH FLOOR.
3	DUPLEX POWER RECEPTACLE IN WALL BEHIND FIXTURE.
4	QUADPLEX POWER RECEPTACLE IN WALL BEHIND FIXTURE.
5	2X DATA RECEPTACLE IN WALL BEHIND FIXTURE.
6	PROVIDE POWER CIRCUIT AT WALL FOR THE NANOLUMEN LED DIGITAL DISPLAY. LEAVE WHIP, COILED AND TAPED, FOR HARD-WIRED CONNECTION TO PRE-INSTALLED J-BOX IN THE FIXTURE BY ELECTRICAL CONTRACTOR DURING LED DISPLAY INSTALLATIONS.
7	PROVIDE (2) CAT6A SHIELDED DATA CABLING AT WALL FOR THE NANOLUMEN LED DIGITAL DISPLAY. TIP CABLE AND LEAVE LONG SERVICE LOOP FOR OWNER'S VENDOR TO ROUTE CABLING THROUGH CASEWORK AND MAKE CONNECTIONS.
GENERAL NOTES	
A	PROVIDE CAT6A SHIELDED DATA CABLING FOR ALL NANOLUMEN LED DIGITAL DISPLAYS.
B	RIGID CONDUIT ONLY FOR DATA CABLING. NO FLEXIBLE CONDUIT ALLOWED.
C	UPSIZE CONDUIT FOR CAT6A SHIELDED CABLE AS REQUIRED.

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SOUTH MERIDIAN & 43RD AVE SE

4227 S MERIDIAN SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y

PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

CLAYTON LUCAS
STATE OF WASHINGTON
23026082
REGISTERED
PROFESSIONAL ENGINEER
11/26/2024

PRCTI20241902

DATE: 11.11.2024

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www.fuzionad.com

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Millsap, TX 76066
(817) 901-5191

##	DESCRIPTION	DATE

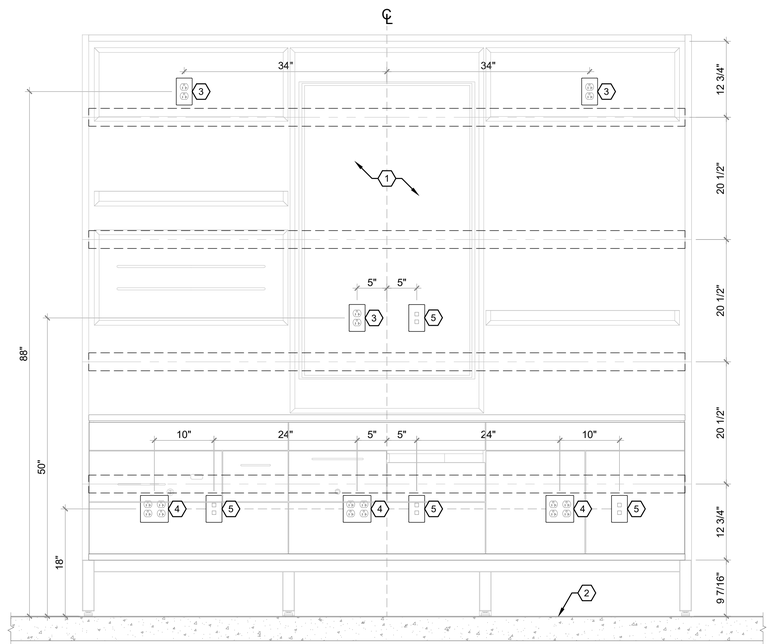
DATE: 11.11.2024
DRAWN BY: HO

FIXTURE FEED WIRING DETAILS

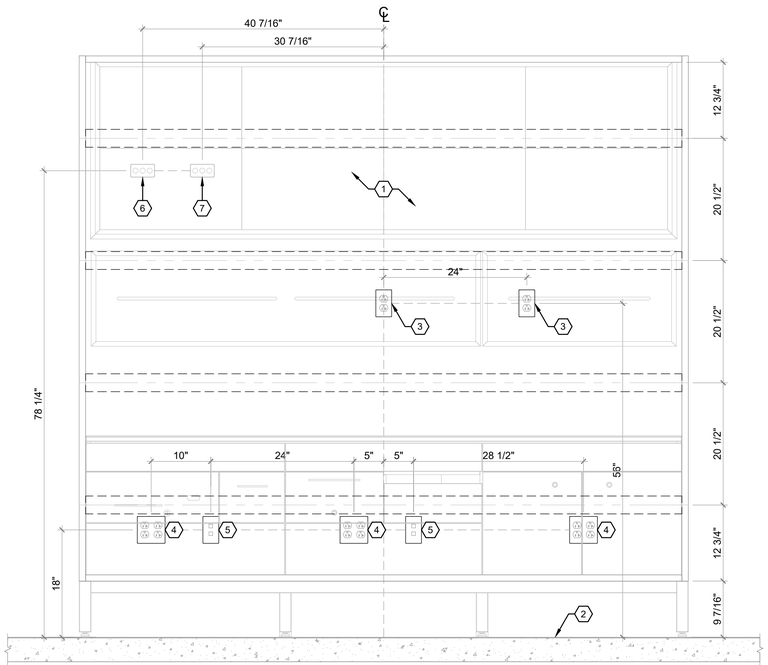
E502

BENTO KEY NOTES	
##	NOTES
1	BENTO WALL DISPLAY FIXTURE BY OWNER'S VENDOR. REFER TO FIXTURE MANUFACTURER INSTALLATION INSTRUCTIONS & SPECIFICATIONS FOR ATTACHMENT AND HARDWARE. CONTACT FIXTURE MANUFACTURER FOR QUESTIONS OR DISCREPANCIES.
2	FINISH FLOOR.
3	DUPLEX POWER RECEPTACLE IN WALL BEHIND FIXTURE.
4	QUADPLEX POWER RECEPTACLE IN WALL BEHIND FIXTURE.
5	2X DATA RECEPTACLE IN WALL BEHIND FIXTURE.
6	PROVIDE POWER CIRCUIT AT WALL FOR THE NANOLUMEN LED DIGITAL DISPLAY. LEAVE WHIP, COILED AND TAPED, FOR HARD-WIRED CONNECTION TO PRE-INSTALLED J-BOX IN THE FIXTURE BY ELECTRICAL CONTRACTOR DURING LED DISPLAY INSTALLATIONS.
7	PROVIDE (2) CAT6A SHIELDED DATA CABLING AT WALL FOR THE NANOLUMEN LED DIGITAL DISPLAY. TIP CABLE AND LEAVE LONG SERVICE LOOP FOR OWNER'S VENDOR TO ROUTE CABLING THROUGH CASEWORK AND MAKE CONNECTIONS.

GENERAL NOTES	
A	PROVIDE CAT6A SHIELDED DATA CABLING FOR ALL NANOLUMEN LED DIGITAL DISPLAYS.
B	RIGID CONDUIT ONLY FOR DATA CABLING. NO FLEXIBLE CONDUIT ALLOWED.
C	UPSIZE CONDUIT FOR CAT6A SHIELDED CABLE AS REQUIRED.



A4 XW185 T-MOBILE SERVICES BENTO ELEVATION
1" = 1'-0"



A3 XW184 OEM BENTO 3 ELEVATION
1" = 1'-0"

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SOUTH MERIDIAN & 43RD AVE SE

4227 S MERIDIAN SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y

PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

CLAYTON LUCAS
STATE OF WASHINGTON
23036582
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11/26/2024

PRCTI20241902

DATE: 11.11.2024

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101 Nightlinger Lane
Millsap, TX 76066
(817) 901-5191

##	DESCRIPTION	DATE

DATE: 11.11.2024
DRAWN BY: HO

FIXTURE FEED WIRING DETAILS

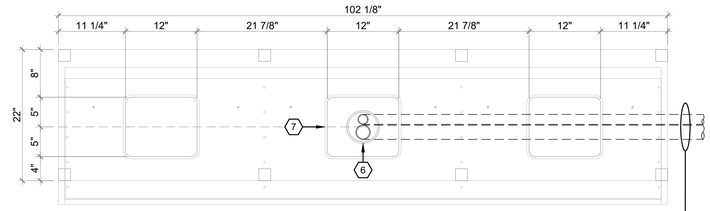
E503

GENERAL NOTES

A	BLANK DUPLEX J-BOXES ARE PROVIDED AND SHIPPED LOOSE BY THE FIXTURE MANUFACTURER. ELECTRICAL CONTRACTOR TO INSTALL IN FIELD.
B	PROVIDE CAT6A SHIELDED DATA CABLING FOR ALL NANOLUMEN LED DIGITAL DISPLAYS.
C	UPSIZE CONDUIT FOR CAT6A SHIELDED CABLE AS REQUIRED.
D	RIGID CONDUIT ONLY FOR DATA CABLING. NO FLEXIBLE CONDUIT ALLOWED.

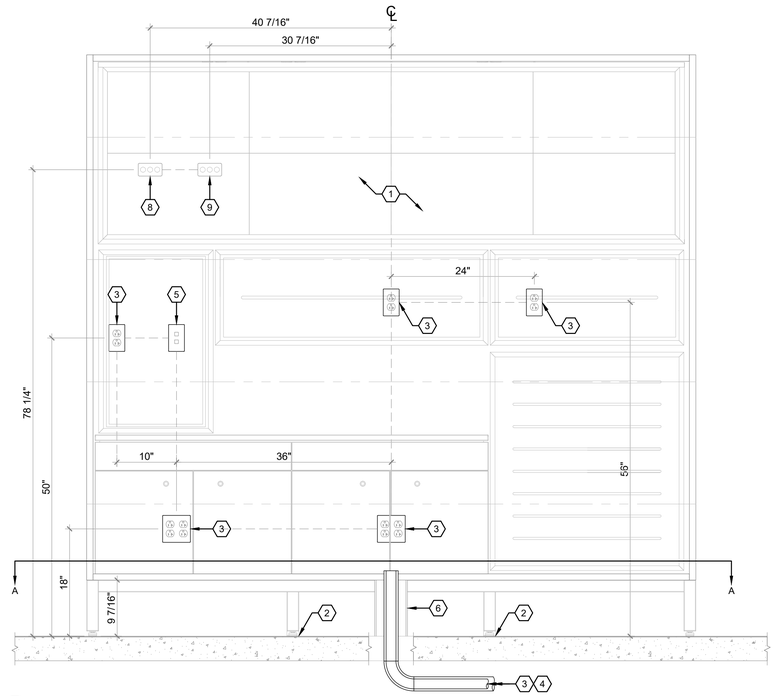
XW180 / XW182 KEY NOTES

(##)	NOTES
1	FREESTANDING BENTO FLOOR FIXTURE BY OWNER'S VENDOR. REFER TO FIXTURE MANUFACTURER INSTALLATION INSTRUCTIONS & SPECIFICATIONS FOR ATTACHMENT AND HARDWARE. CONTACT FIXTURE MANUFACTURER FOR QUESTIONS OR DISCREPANCIES.
2	FIXTURE ANCHORED TO FLOOR, TYP.
3	ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND POWER CIRCUIT FROM PANEL TO J-BOX ABOVE CEILING. PROVIDE CONDUIT AND APPROVED MC CABLE FROM J-BOX TO FIXTURE STUB IN. E.C. TO PROVIDE RECEPTACLE AT BLANK J-BOX INSIDE FIXTURE AND MAKE FINAL CONNECTION TO CIRCUIT.
4	ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT & PULL STRING FROM TELEPHONE BOARD TO FIXTURE FOR DATA CABLING AND RJ45 CONNECTION BY OWNER'S VENDOR.
5	OWNER'S VENDOR TO PROVIDE CAT6 CABLING FOR DATA FROM TELCO CLOSET TO FIXTURE. PROVIDE PLASTIC GROMMETS AS REQ'D. PROVIDE RJ45 CONNECTORS AND TERMINATE CONNECTORS ON BOTH SIDES OF CAT6 CABLING. ROUTE CABLING THROUGH CASEWORK AND MAKE FINAL CONNECTIONS WITHIN FIXTURE.
6	DECORATIVE SLEEVE PROVIDED BY FIXTURE MANUFACTURE TO HIDE CONDUITS FROM THE FLOOR TO THE UNDERSIDE OF THE FIXTURE. CONDUITS TO BE RUN INSIDE. REFER TO MANUFACTURES INSTALLATION INSTRUCTIONS.
7	ACCESS PANEL IN BOTTOM OF FIXTURE. TYPICAL OF 3.
8	PROVIDE POWER CIRCUIT FOR THE NANOLUMEN LED DIGITAL DISPLAY. LEAVE WHIP, COILED AND TAPED, FOR HARD-WIRED CONNECTION TO PRE-INSTALLED J-BOX IN THE FIXTURE BY ELECTRICAL CONTRACTOR DURING LED DISPLAY INSTALLATIONS.
9	PROVIDE (2) CAT6A SHIELDED DATA CABLING FOR THE NANOLUMEN LED DIGITAL DISPLAY. TIP CABLE AND LEAVE LONG SERVICE LOOP FOR OWNER'S VENDOR TO ROUTE CABLING THROUGH CASEWORK AND MAKE CONNECTIONS.



ELECTRICAL CONTRACTOR TO PROVIDE UNDERGROUND CONDUIT VIA SAW CUT (TRENCH) TO FIXTURE.
- (1) 2" CONDUIT UNDER SLAB FOR GENERAL POWER
- (1) 1-1/4" CONDUIT UNDER SLAB FOR DATA

SECTION A
1" = 1'-0"



A4 XW180 / XW182 OEM BENTO 1&2 (LEFT) ELEVATION
1" = 1'-0"

GENERAL NOTES

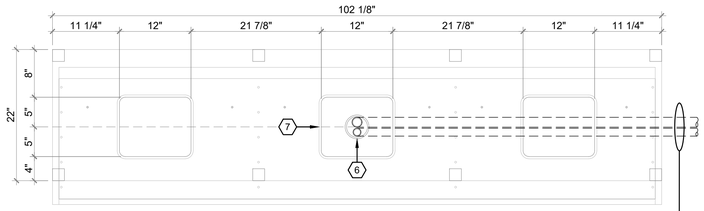
A	BLANK DUPLEX J-BOXES ARE PROVIDED AND SHIPPED LOOSE BY THE FIXTURE MANUFACTURER. ELECTRICAL CONTRACTOR TO INSTALL IN FIELD.
B	PROVIDE CAT6A SHIELDED DATA CABLING FOR ALL NANOLUMEN LED DIGITAL DISPLAYS.
C	UPSIZE CONDUIT FOR CAT6A SHIELDED CABLE AS REQUIRED.
D	RIGID CONDUIT ONLY FOR DATA CABLING. NO FLEXIBLE CONDUIT ALLOWED.

XW186 KEY NOTES

(##)	NOTES
1	FREESTANDING BENTO FLOOR FIXTURE BY OWNER'S VENDOR. REFER TO FIXTURE MANUFACTURER INSTALLATION INSTRUCTIONS & SPECIFICATIONS FOR ATTACHMENT AND HARDWARE. CONTACT FIXTURE MANUFACTURER FOR QUESTIONS OR DISCREPANCIES.
2	FIXTURE ANCHORED TO FLOOR, TYP.
3	ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND POWER CIRCUIT FROM PANEL TO J-BOX ABOVE CEILING. PROVIDE CONDUIT AND APPROVED MC CABLE FROM J-BOX TO FIXTURE STUB IN. E.C. TO PROVIDE RECEPTACLE AT BLANK J-BOX INSIDE FIXTURE AND MAKE FINAL CONNECTION TO CIRCUIT.
4	ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT & PULL STRING FROM TELEPHONE BOARD TO FIXTURE FOR DATA CABLING AND RJ45 CONNECTION BY OWNER'S VENDOR.
5	OWNER'S VENDOR TO PROVIDE CAT6 CABLING FOR DATA FROM TELCO CLOSET TO FIXTURE. PROVIDE PLASTIC GROMMETS AS REQ'D. PROVIDE RJ45 CONNECTORS AND TERMINATE CONNECTORS ON BOTH SIDES OF CAT6 CABLING. ROUTE CABLING THROUGH CASEWORK AND MAKE FINAL CONNECTIONS WITHIN FIXTURE.
6	DECORATIVE SLEEVE PROVIDED BY FIXTURE MANUFACTURE TO HIDE CONDUITS FROM THE FLOOR TO THE UNDERSIDE OF THE FIXTURE. CONDUITS TO BE RUN INSIDE. REFER TO MANUFACTURES INSTALLATION INSTRUCTIONS.
7	ACCESS PANEL IN BOTTOM OF FIXTURE. TYPICAL OF 3.

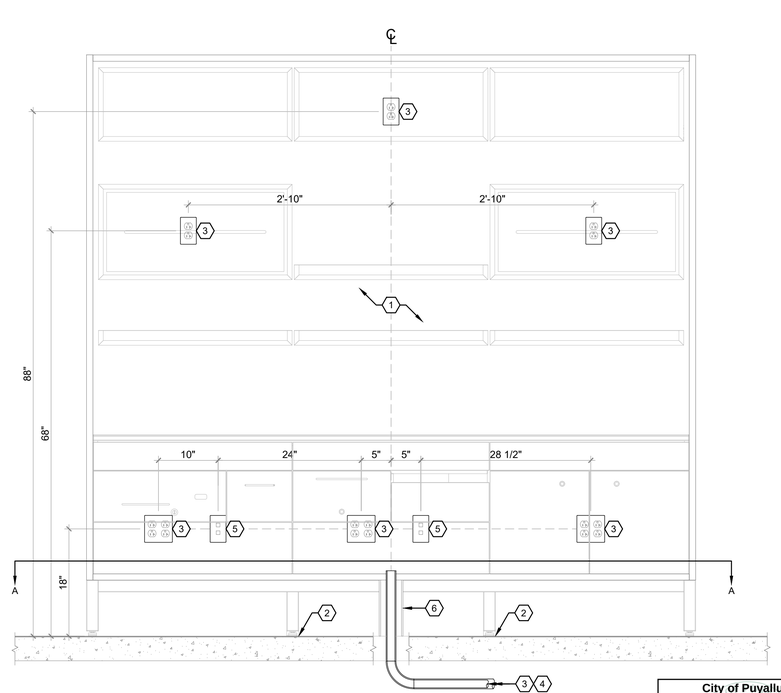
GENERAL NOTES

A	PROVIDE CAT6A SHIELDED DATA CABLING FOR ALL NANOLUMEN LED DIGITAL DISPLAYS.
B	RIGID CONDUIT ONLY FOR DATA CABLING. NO FLEXIBLE CONDUIT ALLOWED.
C	UPSIZE CONDUIT FOR CAT6A SHIELDED CABLE AS REQUIRED.



ELECTRICAL CONTRACTOR TO PROVIDE UNDERGROUND CONDUIT VIA SAW CUT (TRENCH) TO FIXTURE.
- (1) 1" CONDUIT UNDER SLAB FOR GENERAL POWER
- (1) 1-1/4" CONDUIT UNDER SLAB FOR DATA

SECTION A
1" = 1'-0"



A2 XW186 OTHER PRODUCTS BENTO ELEVATION
1" = 1'-0"

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4227 S MERIDIAN SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y
PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

CLINTON LUCAS
STATE OF WASHINGTON
23036882
REGISTERED PROFESSIONAL ENGINEER
11/26/2024

PRCTI20241902

DATE: 11.11.2024

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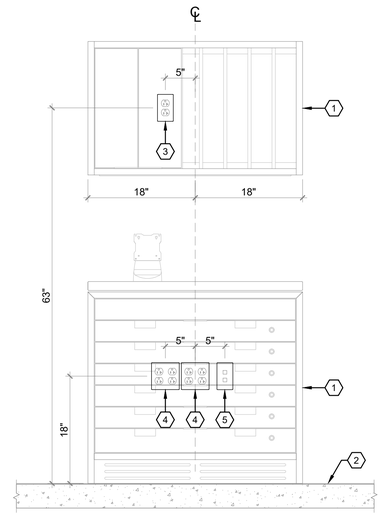
GEMINI ENGINEERING GROUP
101 Nightlinger Lane
Millsap, TX 76066
(817) 901-5191

##	DESCRIPTION	DATE

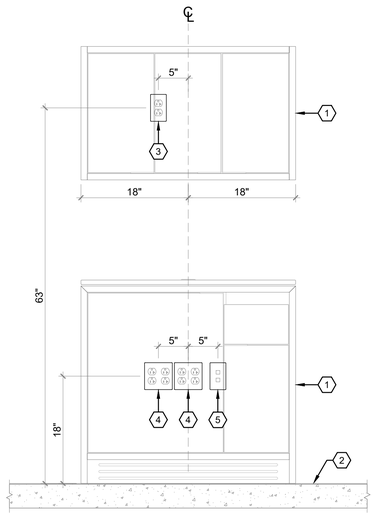
DATE: 11.11.2024
DRAWN BY: HO

FIXTURE FEED WIRING DETAILS

E503.1



B3 XF426 / XF423 DEMO DEPOT ELEVATION
1" = 1'-0"



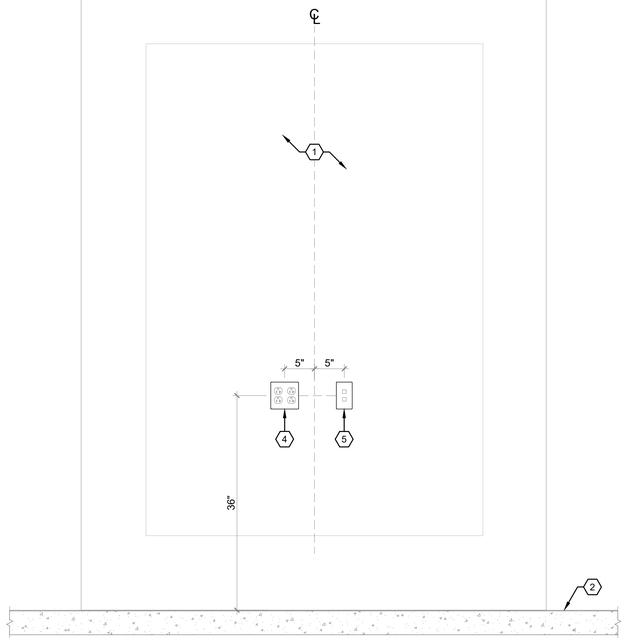
B2 XF424 / XF425 OPS DEPOT ELEVATION
1" = 1'-0"

WALL FIXTURE KEY NOTES

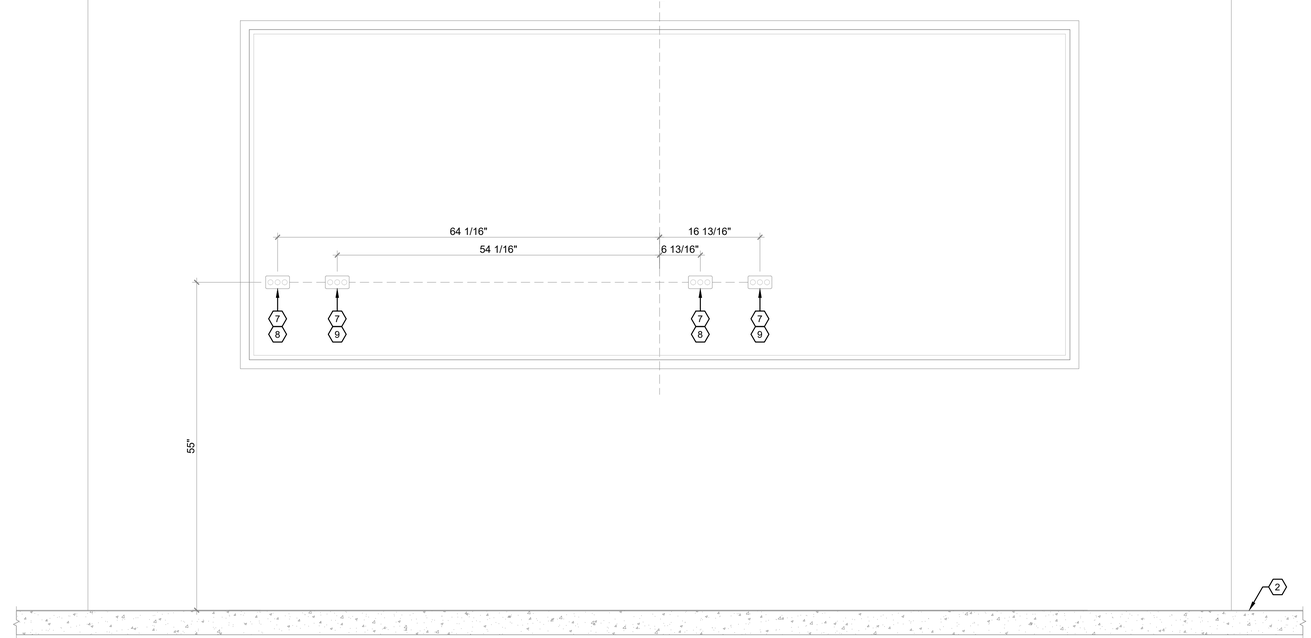
##	NOTES
1	WALL DEPOT FIXTURE BY OWNER'S VENDOR. REFER TO FIXTURE MANUFACTURER INSTALLATION INSTRUCTIONS & SPECIFICATIONS FOR ATTACHMENT AND HARDWARE. CONTACT FIXTURE MANUFACTURER FOR QUESTIONS OR DISCREPANCIES.
2	FINISH FLOOR
3	DUPLEX POWER RECEPTACLE IN WALL BEHIND FIXTURE
4	QUADPLEX POWER RECEPTACLE IN WALL BEHIND FIXTURE
5	2X DATA RECEPTACLE IN WALL BEHIND FIXTURE
6	4X DATA RECEPTACLE IN WALL BEHIND FIXTURE
7	PROVIDE J-B0XES FOR POWER AND DATA IN WALL FLUSH W/ PLYWOOD FACE.
8	PROVIDE POWER CIRCUIT AT WALL FOR THE NANOLUMEN LED DIGITAL DISPLAY. LEAVE WHIP COILED AND TAPED FOR HARD-WIRED CONNECTION TO PRE-INSTALLED J-BOX IN THE FIXTURE BY ELECTRICAL CONTRACTOR DURING LED DISPLAY INSTALLATIONS.
9	PROVIDE (2) CAT6A SHIELDED DATA CABLING AT WALL FOR THE NANOLUMEN LED DIGITAL DISPLAY. TIP CABLE AND LEAVE LONG SERVICE LOOP FOR OWNER'S VENDOR TO ROUTE CABLING THROUGH CASEWORK AND MAKE FINAL CONNECTIONS.

GENERAL NOTES

A	PROVIDE CAT6A SHIELDED DATA CABLING FOR ALL NANOLUMEN LED DIGITAL DISPLAYS.
B	RIGID CONDUIT ONLY FOR DATA CABLING. NO FLEXIBLE CONDUIT ALLOWED.
C	UPSIZE CONDUIT FOR CAT6A SHIELDED CABLE AS REQUIRED.



A4 XW476 DIGITAL PORTAL WALL ELEVATION
1" = 1'-0"



A3 XW474 (16') LARGE DIGITAL WALL ELEVATION
1" = 1'-0"

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SOUTH MERIDIAN & 43RD AVE SE
4227 S MERIDIAN SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y
PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

CLAYTON LUCAS
STATE OF WASHINGTON
23036882
REGISTERED PROFESSIONAL ENGINEER
11/26/2024

PRCTI20241902

DATE: 11.11.2024

FUZION
9096 EAST BAHIA DRIVE
SUITE 103
SCOTTSDALE, AZ 85260
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(480) 463 - 4764
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GEMINI ENGINEERING GROUP
101 Nightlinger Lane
Millsap, TX 76066
(817) 901-5191

##	DESCRIPTION	DATE

DATE: 11.11.2024
DRAWN BY: HO

FIXTURE FEED WIRING DETAILS

E504

LIGHTING COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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Project & Applicant Information		
	Project Title	T-Mobile 8022 - 2021 WSEC
	Project Address	4227 S Meridian Suite E Puyallup, WA 98373
	Applicant Name	Clayton Lucas, P.E.
	Applicant Phone	817-901-5191
	Applicant Email	clucas@gegroup.com

For Building Department Use:

Date: Nov 09, 2024

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

General Occupancy	All Commercial		**General Building Use Type**		Retail, Strip Mall	**Building Cond. Floor Area**	3,263
General Project Types	Alteration	**New Building or Addition Lighting Scope**		**Alteration Lighting Scope**	Interior Lighting	**Project Cond. Floor Area**	3,263
						Floors Above Grade	
						Compliance Method	General Prescriptive
Lighting Project Description	Interior renovation of an existing Retail space to include new lighting, lighting controls and electrical outlets.						

Lighting Compliance Scope and Method	**Project Type**	**Interior / Exterior (Interior applies to both Interior & parking)**	**Luminaire Replacement Scope**	**Compliance Method**	**LPA Calculation Adjustment**	**Compliance Verification**
	Alteration	Interior Lighting	20% or more replaced	Space by space	No Calculation Adjustments allowed	**COMPLIES**
Additional Energy Efficiency (AEC) Measures Included	No lighting or electrical additional energy efficiency measures included in project		**Load Management (LDM) Measures Included**		No lighting or electrical load management measures included in project	

Project Title	**T-Mobile 8022 - 2021 WSEC**	**Date**	**Nov 09, 2024**
Lighting Power Calculation	**ALTERATION - INTERIOR LIGHTING (20% or more replaced)**	**Compliance Verification**	**COMPLIES**
Compliance Method	**Space by space**	**LPA Calculation Adjustment**	**none**

Interior Lighting Power Allowance - Space by Space

General Space Type	Specific Space Type	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 1)	Total Proposed Watts (LPD + Display LPD)	Compliance Status
Corridors	General	264	0.41	108		
Lounge/breakroom	General	563	0.59	332		
Office	Enclosed ≤ 250 sf	86	0.74	64		
Restroom	General	120	0.63	76		
Storage room	General	126	0.38	48		
Retail	General sales	2,104	1.05	2,209		
			Proposed Total LPD		**2,431**	
	Totals			**2,837**	**2,431**	**COMPLIES**

Proposed Lighting Power Density

Fixture Type	Fixture ID	Quantity of Fixtures (#F)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures						
Decorative	L234	2	22			44
Direct / indirect pendant	L218	2	80			160
Direct / indirect pendant	L220	2	20			40
Direct / indirect pendant	L221	20	40			800
Horizontal surface-mount	L235	2	31			62
Indirect pendant	L222	8	23			184
Troffer	L231	9	35			315
Recessed downlight	L230	8	26			208
Suspended	L211/L212	1	600			600
Other fixture type	L233	2	9			18
					Proposed Total LPD	**2,431**

Horizontal surface-mount	L235	2	31			62
Indirect pendant	L222	8	23			184
Troffer	L231	9	35			315
Recessed downlight	L230	8	26			208
Suspended	L211/L212	1	600			600
Other fixture type	L233	2	9			18
					Proposed Total LPD	**2,431**

Project Title	**T-Mobile 8022 - 2021 WSEC**	**Date**	**Nov 09, 2024**
Proposed Fixtures Details	**ALTERATION - INTERIOR LIGHTING (20% or more replaced)**		

Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type	New or Existing-to-Remain
Individual Fixtures				
Decorative	L234	E111	LED	New
	Fixture Description: LED Sconce			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Direct / indirect pendant	L218	E111	LED	New
	Fixture Description: LED Linear Pendant			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Direct / indirect pendant	L220	E111	LED	New
	Fixture Description: LED Linear Pendant			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Direct / indirect pendant	L221	E111	LED	New
	Fixture Description: LED Linear Pendant			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Horizontal surface-mount	L235	E111	LED	New
	Fixture Description: LED Linear			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Indirect pendant	L222	E111	LED	New
	Fixture Description: LED Pendant			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Troffer	L231	E111	LED	New
	Fixture Description: LED Panel			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Recessed downlight	L230	E111	LED	New
	Fixture Description: LED Downlight			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Suspended	L211/L212	E111	LED	New
	Fixture Description: LED Track Lighting			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Other fixture type	L233	E111	LED	New
	Fixture Description: LED Fan-Light			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

T-Mobile
12920 SE 38th STREET
BELLEVUE, WA 98006
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DATE: 11.11.2024
DRAWN BY: HO

ENERGY CALCULATIONS

E601

Lighting, Motor and Electrical Requirements List, pg 1 of 13

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Project:
T-Mobile 8022 - 2021 WSEC
4227 S Meridian
Suite E
Puyallup, WA 98373

Date: 2024-11-09

Applies	Code Section	Component	Compliance Information Required In Permit Documentation	Location in Documents	Building Department Notes
LIGHTING SCOPE					
NA	C103.1	Construction documents - General	For a shell & core or tenant space (first build-out) project, indicate if there is no lighting scope included in the project.		
YES	C103.1	Construction documents - General	For an alteration project, indicate if there is no lighting scope included in the project.	E111	
NA	C405.1	Lighting in sleeping units	Indicate general compliance path for permanently installed luminaires in sleeping units - vacancy controls & luminaire efficacy; or lighting power allowance.		
INTERIOR LIGHTING CONTROLS					
YES	C405.2	Interior lighting controls, general	For all interior lighting systems, indicate lighting control method (general lighting controls requirements or luminaire level lighting controls) on plans for all spaces and lighting zone(s) served; indicate exceptions applied to eligible spaces and light	E111, E112, E113	
YES	C405.2.3	Manual controls	Indicate on plans the method of manual lighting control, location of manual control device and the area or specific application it serves.	E111, E112, E113	
YES	C405.2.4 C405.2.4.1	Manual interior light reduction controls	For general lighting not controlled by occupancy sensors, indicate on plans which method of manual 50% lighting load reduction is provided, or indicate applicable exception.	E111, E112, E113	
YES	C405.2.1 C405.2.2	Method of automatic shut-off control	Indicate on plans the method of automatic shut-off control during unoccupied periods (occupancy sensor or time switch) for all lighting zones.	E111, E112, E113	
NA	C405.2.1	Occupant sensor controls	Indicate on plans all luminaires that are controlled by occupant sensor controls; indicate controls are configured to turn luminaires 100% off when the space is unoccupied		
NA	C405.2.1 C405.2.1.1	Occupant sensor controls	Indicate if occupant sensor controls are configured to be manual on or automatic on to not more than 50% power; indicate spaces eligible for exception that allows automatic on to 100% power.		
NA	C405.2.1.2	Occupant sensor controls - warehouse storage areas & library stacks	Indicate each aisleway within a warehouse or library stack space designated as a separate zone that is independently controlled		

Lighting, Motor and Electrical Requirements List, pg 2 of 13

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NA			Indicate occupant sensors are configured to automatically reduce lighting power by ≥ 50% when the zone is unoccupied for over 20 minutes; indicate controls are configured to automatically restore lighting to full power when the zone or space is occupie		
NA	C405.2.1.2	Occupant sensor controls - warehouse storage areas & library stacks	Indicate method of automatic 100% shut-off (occupancy sensor or time switch)		
NA	C405.2.1.3	Occupant sensor controls - open plan office areas	For open plan office areas larger than 300 sf, indicate all general lighting control zones are ≤ 600 sf		
NA	C405.2.1.3	Occupant sensor controls - open plan office areas	Indicate all general lighting control zones are provided with vacancy controls that are configured to reduce lighting power by not less than 80% when the zone is unoccupied and turn luminaires 100% off when the control zone is unoccupied; indicate unoccup		
NA	C405.2.1.4	Occupant sensor controls - enclosed fire-rated stairwells	Indicate stairway lighting is provided with occupancy sensor controls that reduce lighting power by not less than 50% when the stairway in unoccupied and restore lighting to 100% when it is occupied.		
NA	C405.2.1.5	Occupant sensor controls - corridors	Indicate corridor lighting is provided with occupancy sensor controls that reduce lighting power by not less than 50% when the corridor is unoccupied.		
YES	C405.2.2.1	Automatic time switch controls	Indicate spaces on plans where time switch controls are configured to turn luminaires 100% off during unoccupied hours	E111, E112, E113, E114	
YES			Indicate spaces on plans where time switch controls are configured to turn on lighting to full power versus 50% power	E111, E112	
YES			Indicate locations of override switches on plans and the lighting zone(s) served; indicate that the area(s) served by each override switch does not exceed 5,000 sf.	E111, E112, E113	
NA	C405.2.5.2 C405.2.5.4	Daylight zones - Sidelit zones	Indicate primary and secondary sidelit daylight zone floor areas on plans		
NA			For small vertical fenestration assemblies (rough opening less than 10% of primary daylight zone floor area) where daylight responsive controls are not required, provide fenestration area to daylight zone floor area calculation(s).		
NA			Indicate toplit daylight zone floor areas on plans.		
NA	C405.2.5 C405.2.5.1	Daylight responsive controls	Indicate on plans all lighting zone(s) served by daylight responsive controls; indicate that the area served by each control device does not exceed 2,500 SF		

Lighting, Motor and Electrical Requirements List, pg 3 of 13

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NA			Identify sidelit and toplit daylight zones that are not provided with daylight responsive controls and the exception(s) that apply		
NA	C405.2.5.1	Daylight responsive controls	Indicate on plans that all daylight responsive controls provide continuous dimming to ≤15% full light output		
NA	C405.2.5.1	Daylight responsive controls	Indicate that daylight responsive controls are configured to completely shut off all controlled lighting fixtures within the lighting zone.		
YES	C405.2.6	Additional controls - Specific application lighting controls	Identify spaces and lighting fixtures on plans that require specific application lighting controls per this section.	E111, E112	
YES	C405.2.6, Items 1.1 thru 1.6	Additional lighting controls for display, accent & supplemental task lighting	Indicate on plans that all display, accent and supplemental task lighting fixtures are controlled independently from general area lighting	E111, E112, E113	
YES	C405.2.6, Items 1.1 and 1.2	Display and accent lighting	For display and accent lighting fixtures, including lighting fixtures added per the C405.2.2.1 additional interior lighting power allowance, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupanc	E111, E112, E113	
NA			For display case lighting fixtures, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch)		
NA	C405.2.6, Item 1.4	Supplemental task lighting	For supplemental task lighting fixtures including under-shelf or under-cabinet lighting, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch)		
NA	C405.2.6, Item 1.5	Lighting equipment for sale or demonstration	For lighting equipment for sale or demonstration, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch)		
NA			For exhibit lighting fixtures in galleries, museums and monuments, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch).		
NA	C405.2.6, Item 2	Permanently installed lighting in sleeping units	Indicate method of automatic off control of all installed luminaires in sleeping units (vacancy or captive key card control); also refer to Receptacles.		

Lighting, Motor and Electrical Requirements List, pg 4 of 13

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NA	C405.2.6, Item 3	Lighting for non-visual applications	For lighting serving non-visual applications (food warming and lighting for life support of nonhuman life forms), indicate on plans that lighting fixtures are controlled independently from both general area lighting and other lighting applications within		
NA			Indicate on plans separate manual controls for non-visual lighting application fixtures and applicable automatic lighting controls; indicate that the area served by each control device does not exceed 4,000 sf.		
NA			For task lighting that serves medical & dental purposes, indicate on plans that lighting fixtures are provided with manual control that is independent from general area lighting.		
YES	C405.2.6, Item 5	Means of egress lighting	Identify all means of egress lighting fixtures on plans including fixtures that function as both normal and emergency illumination	E111, E112	
YES			Provide calculation for total lighting power density (LPD) of all means of egress lighting fixtures; if total LPD is ≥ 0.01 Watts/SF, indicate on plans the method of automatic shut-off control during unoccupied periods (emergency relay & occupancy sens	E111, E112	
NA	C405.2.8	Advanced lighting controls in open office areas	For open office areas ≥ 5,000 sf, indicate which advanced lighting control system is provided (luminaire level lighting controls or networked lighting controls).		
NA	C405.2.8.1	Luminaire level lighting controls (LLLC)	Where LLLC are provided to comply with C405.2.8, or provided as the alternate lighting controls compliance method per C405.2, or to comply with C406.2.4.2 Enhanced digital interior lighting controls; provide sequence of operations that describes required		
NA	C405.2.8.1 C405.2.8.3	Luminaire level lighting controls (LLLC)	Indicate on plans that each LLLC luminaire is configured with occupancy sensing control functions (including C405.2.1.3 requirements for open office areas) and continuous full range dimming controls to brighten or dim lights based on occupancy and availab		
NA	C405.2.8.2	Networked lighting control (NLC)	Where NLC are provided to comply with C405.2.8, or to comply with C406.2.4.2 Enhanced digital interior lighting controls; provide sequence of operations that describes required NLC capabilities and performance parameters		
NA	C405.2.8.2 C405.2.8.3	Networked lighting control (NLC)	Indicate on plans that each NLC luminaire is individually addressable or document exception applied; Indicate on plans that each NLC luminaire is configured with occupancy sensing control functions (including C405.2.1.3 requirements for open office areas)		

Lighting, Motor and Electrical Requirements List, pg 5 of 13

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NA	C405.8.3	High end trim	Where high end trim is required, luminaires shall be initially configured to limit maximum lumen output or lighting power to 85% or to the target design lighting power.		
INTERIOR LIGHTING CONTROLS - ADDITIONAL ENERGY EFFICIENCY MEASURE					
NA	C406.2.4.2	Enhanced digital interior lighting controls	To comply with the enhanced interior lighting controls measure, provide calculations that demonstrate that lighting in ≥ 50% of the project floor area is provided with LLLC (C405.2.8.1) or NLC (C405.2.8.2) controls with high end trim (C405.2.8.3)		
NA			Where LLLC is provided, indicate on plans that each LLLC controlled luminaire is configured with integral sensors; where NLC is provided, indicate on plans that each NLC controlled luminaire is configured to be independently addressable; provide sequence		
NA	C406.2.4.1	Enhanced lighting controls in Group R-2	In Group R-2 occupancies, indicate on plans a master control at the main entrance to each dwelling or sleeping unit that switches off all lights and switched receptacles (may be two controls, one for lights and the other for receptacles); indicate on plan		
INTERIOR LIGHTING CONTROLS - LIGHTING LOAD MANAGEMENT MEASURE					
NA	C406.3.1	Interior lighting DDC controls & real-time demand response	To comply with the interior lighting load management measure, indicate automatic lighting controls are connected to a central DDC system capable of activation by an external utility signal; where utility real-time demand or pricing program exists, indicat		
NA	C406.3.1	Interior lighting power reduction controls	Indicate lighting controls are configured to gradually reduce by continuous dimming the interior general area lighting power by ? 20% in response to a peak demand signal; calculate the percentage of total building floor area served by load management ligh		
NA	C406.3.1	Warehouse & retail storage interior lighting power reduction controls	For warehouse & retail storage areas, indicate method of interior general area lighting power reduction (continuous dimming by ? 20%; switching off ? 25% of lighting power).		
EXTERIOR LIGHTING CONTROLS					
NA	C405.2.9 C405.2.9.1 C405.2.9	Exterior lighting controls	For all exterior lighting, indicate on plans automatic controls (either daylight sensing or astronomic time clock) configured to turn lighting off when daylight is present; or indicate exception applied.		
NA			For exterior building facade & landscape lighting, indicate that controls are configured to turn this lighting off when daylight is present for a minimum of 6 hours per night, or from 1 hour after closing to 1 hour before opening per the occupancy schedul		

Lighting, Motor and Electrical Requirements List, pg 6 of 13

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NA			For outdoor parking area (not parking garage) luminaires that are mounted ≤ 24 feet high and are rated at ≥ 40 watts, indicate that controls are configured to turn this lighting off when daylight is present; in addition, indicate controls are config		
NA			For exterior lighting other than building facade, landscape and outdoor parking area lighting, indicate controls are configured to reduce lighting power by at least 50% from 12am-6am, or 1 hour after closing to 1 hour before opening, or when no activity i		
NA	C405.2.10	Parking garage lighting control	Indicate all interior parking garage lighting fixtures are provided with time switch controls (per C405.2.2.1) or occupancy sensor controls (per C405.2.1.1); indicate controls are configured to reduce lighting power by at least 30% when no activity is det		
NA	C405.2.10	Parking garage lighting control - Perimeter lighting zones	For parking garage lighting fixtures located within 20 feet of perimeter wall openings, indicate on plans that daylight sensing controls are configured to reduce lighting power by at least 50%, or exception applied		
NA	C405.2.10	Parking garage lighting control - Eye adaptation lighting	For lighting fixtures at vehicle entrances & exits, indicate on plans that daylight sensing controls are configured to reduce lighting power by at least 50% from sunrise to sunset.		
NA	C405.3	Lighting for plant growth and maintenance	For permanently installed lighting fixtures used specifically for plant growth and maintenance, indicate that the photosynthetic photon efficacy measured at the lamp or luminaire is ≥ 1.7 i_2?mol/J in greenhouses and ≥ 1.9 i_2?mol/J in all other indoo		
NA	C405.5.4	Exterior gas-fired lighting appliances	Indicate ignition system is a method other then continuously burning pilot light.		
INTERIOR & EXTERIOR LIGHTING CONTROL CIRCUITS					
YES	C405.2.7	Area controls - Master control switches	Indicate location(s) of lighting master control switch(es) intended to control multiple independent switches; a circuit breaker may not be used as a lighting master control switch	E111, E112, E113	
YES			Verify the maximum power controlled by any single lighting control switch or automatic control device is no more than a 20 amp circuit loaded to ? 80%.	E111, E112, E301	
INTERIOR LIGHTING POWER & EFFICACY					
YES	C405.4.1	Total connected interior lighting power	Include all luminaires in interior lighting fixture schedule; indicate fixture types, lamps, ballasts and rated watts per fixture; include rated wattage of lamps for luminaires with lamps connected directly to building power; include wattage limit of tran	E111, E112, E301	

Lighting, Motor and Electrical Requirements List, pg 7 of 13

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NA			Identify spaces eligible for lighting power exemption on plans and in WSEC interior lighting compliance reports; indicate the exception applied		
NA			Identify lighting equipment eligible for lighting power exemption in fixture schedule and in WSEC interior lighting compliance reports; indicate the exception applied.		
NA	C405.1.1	Lighting in dwelling units	Include all permanently installed luminaires in dwelling units in interior lighting fixture schedule; include luminaire lighting power and efficacy (lumens)		
NA			Include all permanently installed luminaires in sleeping units in interior lighting fixture schedule; include luminaire lighting power or efficacy (lumens) depending on compliance path taken per C405.1		
NA			For all permenantly installed luminaires, indicate in interior lighting fixture schedule that rated lamp efficacy is ≥ 65 lumens/watt or luminaire efficacy is ≥ 45 lumens/watt.		
YES	C405.4.2	Interior lighting power allowance (LPA)	Indicate which interior LPA method is applied to the entire building (Building Area Method or Space-by-Space Method); indicate LPA applied is Space-by-Space Method for partial building projects and for buildings with unfinished spaces.	E601	
INTERIOR LIGHTING POWER CALCULATION - INDICATE COMPLIANCE PATH TAKEN					
NA	C405.4.2.1	Building Area Method	Demonstrate that total proposed interior lighting wattage per building does not exceed the sum of the maximum allowed wattages for all building area types; identify locations of building areas on plans; provide WSEC interior lighting compliance reports.		
YES	C405.4.2.2	Space-By-Space Method	Demonstrate that total proposed interior lighting wattage does not exceed the maximum allowed wattage; identify locations of space types on plans, including additional or luminaire retail display areas and areas with display, highlight and decorative lightin	E601	
INTERIOR LIGHTING POWER & EFFICACY - ADDITIONAL ENERGY EFFICIENCY MEASURES					
NA	C406.2.3.1 C406.2.3.2	Reduced interior lighting power density (LPD)	To comply with the reduced interior LPD additional energy efficiency measure, demonstrate that total proposed interior LPD wattage is 10% or 20% lower than the total interior LPA wattage for the area the reduced lighting power measure is being applied to		

Lighting, Motor and Electrical Requirements List, pg 8 of 13

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NA	C406.2.3.3	Reduced interior LPD - Dwelling & sleeping unit lamp efficacy	To comply with reduced interior LPD additional energy efficiency measure for a building with dwelling units or sleeping units, indicate in interior lighting fixture schedule that all permenantly installed luminaires have a rated lamp efficacy ≥ 90 lume		
EXTERIOR LIGHTING POWER & EFFICACY					
NA	C405.5.2	Total connected exterior lighting power	Include all luminaires in exterior lighting fixture schedule; indicate fixture types, lamps, ballasts and rated watts per fixture; include rated wattage of lamps for luminaires with lamps connected directly to building power; include wattage limit of tran		
NA			Identify exterior lighting applications eligible for lighting power exemption on plans and in WSEC exterior lighting compliance reports; indicate the exception applied.		
NA	TABLE C405.5.3(1)	Exterior lighting zone	Indicate the building exterior lighting zone as specified by the AHJ.		
NA	C405.5.1	Exterior building grounds lighting	For building grounds lighting fixtures rated at greater than 25 watts, indicate in exterior lighting fixture schedule that fixtures have a rated lamp efficacy ≥ 100 lumens/watt or indicate the exception applied.		
EXTERIOR LIGHTING POWER CALCULATION					
NA	C405.5.3	Exterior lighting power allowance (LPA)	Demonstrate that total proposed exterior surface lighting wattage does not exceed the maximum allowed wattage (including base site allowance); identify locations of exterior surfaces on plans; provide WSEC exterior lighting compliance reports		
NA			Demonstrate that total proposed wattage for each additional allowance exterior surface type does not exceed the LPA for the surface type (includes base site allowance remaining after C405.5.3 LPA calculation); identify locations of additional allowance ex		
LIGHTING SYSTEMS ALTERATIONS					
YES	C503.7.1	New lighting systems and controls	Where new interior or exterior lighting systems are installed within an existing building site, indicate new lighting controls comply with C405.2; indicate commissioning of lighting controls (C408.4) and lighting system energy end-use metering (C409.3) wi	E111, E112, E113	
YES	C503.7.2	Interior lighting & parking garage lighting alteration	Include all new luminaires in interior lighting fixture schedule in plans, provide same lighting fixture information as for new construction per C405.4.1 and C405.4.2	E601	

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Development & Permitting Services
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SOUTH MERIDIAN & 43RD AVE SE
4227 S MERIDIAN SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y
PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

CLAYTON LUCAS
STATE OF WASHINGTON
23036382
REGISTERED
PROFESSIONAL ENGINEER
11/26/2024

PRCTI20241902

DATE: 11.11.2024

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##	DESCRIPTION	DATE

DATE: 11.11.2024
DRAWN BY: HO

ENERGY CALCULATIONS

E602

Lighting, Motor and Electrical Requirements List, pg 9 of 13

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NA			For alterations that add or replace ≥ 20% of luminaires within an interior space or parking garage, indicate which interior lighting power allowance (LPA) method is applied to the alteration project area (Space-by-Space Method for partial building alte		
NA			Demonstrate that total proposed interior lighting wattage (including existing-to-remain lighting wattage) within the alteration project area does not exceed the maximum allowed wattage (Space-by-Space Method) or the sum of the maximum allowed wattages for		
YES	C503.7.2	Interior lighting alterations (LPA) - Add/replace	For alterations that add or replace < 20% of luminaires in an interior space or parking garage, calculate total existing interior lighting wattage within the project area prior to the alteration	E601	
YES	C503.7.2	Interior lighting alterations (LPD) - Add/replace	Demonstrate that total proposed interior lighting wattage (including existing-to-remain lighting wattage) within the alteration project area does not exceed the total existing interior lighting wattage prior to the alteration; provide WSEC interior lighti	E601	
NA			Include all new luminaires in exterior lighting fixture schedule in plans, provide same lighting fixture information as for new construction per C405.5.2		
NA	C503.7.2	Exterior lighting alterations (LPA) - Add/replace &ge 20%	For alterations that add or replace ≥ 20% of exterior lighting wattage, indicate exterior lighting power allowance (LPA) calculated in the same manner as for new construction		
NA	C503.7.2	Exterior lighting alterations (LPD) - Add/replace &ge 20%	Demonstrate that total proposed exterior lighting wattage (including existing-to-remain lighting wattage) does not exceed the maximum allowed wattage; identify locations of surface types on plans, including additional allowance surfaces; provide WSEC exte		
NA	C503.7.2	Exterior lighting alterations (LPA) - Add/replace	For alterations that add or replace < 20% of exterior lighting wattage, calculate total existing exterior lighting wattage prior to the alteration		
NA	C503.7.2	Exterior lighting alterations (LPD) - Add/replace	Demonstrate that total proposed exterior lighting wattage (including existing-to-remain lighting wattage) does not exceed the total existing exterior lighting wattage prior to the alteration; identify locations of surface types on plans, including additio		
YES	C503.7.3	Interior lighting wiring & circuiting alterations	Where new wiring is installed to serve new interior luminaires and /or luminaires are relocated to a new circuit; indicate manual and automatic lighting controls are provided (as applicable) - manual & light reduction (C405.2.3 & C405.2.4); occupancy sens	E111, E112, E113	

Lighting, Motor and Electrical Requirements List, pg 10 of 13

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NA			Where new wiring is installed to serve new exterior luminaires and /or luminaires are relocated to a new circuit; indicate circuit power area controls (C405.2.7) are provided; indicate commissioning of exterior lighting controls (C408.4) will be provided,		
YES	C503.7.4	Lighting panel alterations	Where a new interior and/or exterior lighting panel is installed or an existing panel is moved (including all new raceway and conductor wiring), indicate all of the same interior lighting controls requirements as for wiring & circuiting alterations apply,	E111, E301	
NA	C503.7.5	Newly-created rooms	Where interior space(s) are reconfigured (permanently installed walls or ceiling-height partitions) to create new enclosed spaces, indicate the following manual and automatic lighting controls are provided (as applicable) - manual & light reduction (C405.		
NA	C504.2	Lighting repairs	Identify existing luminaires being upgraded with with bulb and / or ballast replacement; indicate fixture alteration does not increase existing fixture wattage		
NA	C505.1	Change of interior space use	Identify spaces on plans where the building area type or space use type is being changed from one type to another per Tables C405.4.2(1) or (2) including additional allowance retail display areas and areas with display, highlight and decorative lighting		
NA			Demonstrate that total proposed interior lighting wattage (including existing-to-remain lighting wattage) within the alteration project area does not exceed the maximum allowed wattage (Space-by-Space Method) or the sum of maximum allowed wattage per each		
RECEPTACLES					
NA	C405.10	Automatic receptacle control	Provide schedule on electrical plans that lists the number of controlled and uncontrolled receptacles in each space where controlled receptacles are required - classrooms, enclosed offices, conference rooms, copy/print rooms, break rooms and individual wo		
NA			Identify all controlled and uncontrolled receptacles on electrical plans; indicate that ≥ 50% of all receptacles are provided with automatic controls in each space where they are required; include receptacle configuration such as spacing between contro		
NA			Indicate on plans the method of automatic control for each controlled receptacle zone (occupant sensor or programmable time-of-day control); indicate that the area served by each control device does not exceed 5,000 sf.		

Lighting, Motor and Electrical Requirements List, pg 11 of 13

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NA	C405.2.6, Item 2	Switched receptacles in sleeping units	Indicate method of automatic off control of all switched receptacles in sleeping units (vacancy or key card control).		
NA	C405.7.1	Electric receptacles at dwelling unit gas appliances	In all designated appliance locations within dwelling units (kitchen cooking appliances, laundry and domestic water heating), indicate electric receptacles or junction box & circuit within 12 inches of the appliance location with sufficient capacity to se		
NA	C503.7.7	Electrical receptacle alerations	For alteration project areas ≥ 5,000 sf where electric receptacles are added or replaced, indicate receptacles are provided with automatic controls per C405.10, or exception applied.		
ELECTRIC MOTORS					
NA	C405.8	Electric motor efficiency	Include all motors, including fractional hp motors, in electric motor schedule on electrical plans; indicate motor type, horsepower, rpm, rated efficiency, or exception applied.		
ELEVATORS, ESCALATORS & MOVING WALKS					
NA	C405.9.1	Elevator cabs	For luminaires in each elevator cab, provide calculations that demonstrate average efficacy is not less than 35 lumens per watt		
NA			For elevators that do not have an integral air conditioning system, indicate rated watts per cfm for elevator cab ventilation fans do not exceed 0.33 watts per cfm		
NA			Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoccupied for a period of 15 minutes or more.		
NA	C405.9.2	Escalators and moving walks	Indicate escalators and moving walks comply with ASME A17.1/CSA B44 and are provided with automatic controls that are configured to reduce operational speed to the minimum permitted when not in use, or exception applied.		
NA	C405.9.3	Escalator energy recovery	Indicate escalators are designed to recover electrical energy when resisting overspeed in the down direction.		
RENEWABLE ENERGY					
NA	C411	Renewable Energy	For new construction, including additions, change of use, and change of occupancy, with floor area ≥ 10000sf; provide documentation of on-site renewable energy capacity; provide calculations supporting applicable exceptions; if qualifying by exception provide an accounting for the additional Additional Energy Efficiency Credits that will be required		

Lighting, Motor and Electrical Requirements List, pg 12 of 13

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RENEWABLE ENERGY - ADDITIONAL ENERGY EFFICIENCY MEASURE					
NA	C406.2.5	On-site and off-site renewable energy	To comply with the renewable energy measure, provide an accounting of on-site and any contracted off-site renewable energy capacity; for all off-site sources, indicate the C411.2 renewable energy source type, energy factor, and the rated capacity and calculated code credited kW; indicate on-site renewables used to comply with C411 or for a code exception elsewhere in the code; with the remaining renewable energy provide Equation 4-17 calculations showing the achieved credits and that the achieved credits are ? the base credits for the measure		
NA	C406.2.5	On-site and off-site renewable energy	Provide documentation that all off-site renewable energy systems comply with Sections C411.2.2 and C411.2.3 including all contracts, and the ownership and location of off-site generation		
ELECTRIC ENERGY STORAGE - LOAD MANAGMENT MEASURE					
NA	C406.3.4	Electric energy storage	To comply with the electrical energy storage load managment measure, indicate automatic controls shall store electricity in electric storage devices during nonpeak periods and use stored energy during peak periods; Document the total electric storage device capacity; indicate it is ? 5 Wh/sf (58 Wh/sm) of gross building area; for proration provide the proration calculations supporting the claimed credit		
GENERAL ELECTRICAL SYSTEMS					
NA	C405.6	Electrical transformers	Include electrical transformer schedule on electrical plans; indicate transformer type, size (kVA), efficiency, or exception applied.		
NA	C405.7	Dwelling unit electrical energy consumption	Indicate on electrical plans that each dwelling unit in a Group R-2 building has a separate electrical energy meter, or exception applied.		
NA	C405.11	Voltage drop	Indicate wire conductors are sized so that the maximum voltage drop from customer service conductors to branch circuit conductors is &le 5%.		
NA	C405.12	Alternating current-output uninterruptible power supplies (AC-output UPS)	Indicate in plans that AC-output UPS systems serving computer rooms meet or exceed the calculation and testing requirements identified in ENERGY STAR Program Requirements for Uninterruptible Power Supplies (UPS) ? Eligibility Criteria Version 2.0.		
COMMISSIONING (CX)					

Lighting, Motor and Electrical Requirements List, pg 13 of 13

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NA	C408.4	Scope of electrical power & lighting systems commissioning	Indicate that all electrical systems (receptacles, transformers, motors, vertical & horizontal transportation) for which the WSEC requires control functions and/or configuration to perform specific functions are required to be commissioned; include docume		
NA			Where total building lighting load is ≥ 10 kW or the total lighting load of luminaires requiring daylight sensing and/or occupancy control is ≥ 5 kW, indicate that all automatic lighting control systems are required to be commissioned; or provide ca		
YES	C408.1.1	Commissioning requirements in construction documents	Indicate Cx requirements in plans and specifications for all applicable electrical and lighting control systems	E111	
YES	C408.1.2 C103.6.3	Commissioning requirements in construction documents	General summary of Cx plan shall include the following: 1) Narrative description of activities; 2) Responsibilities of the Cx team; 3) Schedule of activities including verification of project close out documentation (C103.6); 4) Conflict of interest plan	E111	
YES	C408.1.3 C408.1.4	Commissioning requirements in construction documents	Include in general summary that a Cx project report and Cx Compliance Checklist (Figure C408.1.4.1) shall be completed by the Certified Cx Professional and provided to the owner prior to the final electrical inspection.	E111	
YES	C408.4.1	Functional performance testing criteria	Identify in plans and specifications the intended operation of all electrical equipment and controls during all modes of operation, including interfacing between new and existing-to-remain systems.	E111	
PROJECT CLOSE OUT					
YES	C103.6.3	Documentation requirements	Indicate in plans that project close out documentation is required; indicate information shall include WSEC lighting compliance reports that document all interior lighting areas and space types, exterior lighting surface types, interior/exterior lighting	E111	
If "no" is selected for any question, provide explanation.					

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DESIGN TYPE: E1Y
PROJECT TYPE: CORP NEW

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PROTOTYPE RELEASE: Q3 2024 DCD: XX

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##	DESCRIPTION	DATE

DATE: 11.11.2024
DRAWN BY: HO

ENERGY CALCULATIONS

E603

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

ELECTRICAL SPECIFICATIONS DIVISION 1600

1.0 SCOPE

1.1 THE COMPLETE INSTALLATION SHALL BE MADE IN STRICT ACCORDANCE WITH THE LANDLORD'S REQUIREMENTS. CONSULT LANDLORD'S DESIGN CRITERIA.

1.2 THE DRAWINGS AND THE SPECIFICATIONS SHALL BE CONSIDERED ADDITIONAL TO ARCHITECT AND MECHANICAL ENGINEER'S SPECIFICATIONS. ANY DISCREPANCY OR CONTRADICTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

1.3 ARCHITECT'S GENERAL REQUIREMENTS ARE PART OF THIS CONTRACT. AND THEY SHALL BE APPLIED BY THE GENERAL CONTRACTOR AND SUBCONTRACTORS (ELECTRICAL,ETC..).

1.4 ONCE ONSITE GENERAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ANY CONDITIONS THAT MAY AFFECT HIS WORK IN ANY MANNER PRIOR TO START OF CONSTRUCTION. (MEASUREMENTS - PARTICULAR CONDITIONS, ETC...) GENERAL CONTRACTOR SHALL NOTIFY TENANT REPRESENTATIVE AND ARCHITECT OF ANY SUCH CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

1.5 GENERAL CONTRACTOR SHALL MAKE ALL NECESSARY CHECKING AND ADJUSTMENTS TO COMPLY WITH THE INTENT OF SPECIFICATIONS.

1.6 THE DRAWINGS SHOW THE APPROXIMATE LOCATION OF THE EQUIPMENT. EACH SUBCONTRACTOR SHALL VERIFY THESE LOCATIONS BEFORE INSTALLATION.

1.7 GENERAL CONTRACTOR'S TENDER SHALL INCLUDE THE COST OF ALL NECESSARY PERMITS AND CERTIFICATES, ALL DRAWINGS APPROVAL COSTS AND ALL INSPECTION COSTS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION.

1.8 EACH SUBCONTRACTOR SHALL COMPLETE THE WORK IN EVERY DETAIL. EVEN THOUGH NOT SHOWN ON DRAWINGS OR CALLED FOR IN THIS SPECIFICATION.

1.9 THE ELECTRICAL TRADE SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATING ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS. THE TRADE SHALL ALSO PROVIDE ANY ITEMS AND/OR LABOR THAT ARE OBVIOUSLY NECESSARY OR REASONABLY IMPLIED TO COMPLETE ALL WORK.

1.10 ALL ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH CURRENT EDITIONS AND AMENDMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), NFPA AND ALL LOCAL CODES ADOPTED BY THE LOCAL JURISDICTION HAVING AUTHORITY.

1.11 ALL RUBBISH'S AND GARBAGE SHALL BE REMOVED FROM THE JOB SITE AT THE END OF EVERY WORKDAY. AT THE CONTRACT COMPLETION, ALL TOOLS AND EQUIPMENT SHALL BE REMOVED AND THE JOB SITE SHALL BE LEFT IN A CLEAN CONDITION.

2.0 GUARANTEE

2.1 EACH SUBCONTRACTOR SHALL GUARANTEE HIS WORK AND INSTALLATION REGARDING HIS CONTRACT. THE ELECTRICAL CONTRACTOR SHALL REPAIR OR REPLACE, AT HIS OWN EXPENSE, ALL DEFECTS AND THIS DURING A TWELVE MONTHS PERIOD, STARTING AT THE PROVISIONAL ACCEPTANCE BY THE TENANT. AS LONG AS THE DEFECTS IS NOT DUE TO A BAD USE OR NORMAL WEAR.

3.0 TAXES

3.1 EACH SUBCONTRACTOR SHALL PAY ALL APPLICABLE TAXES, FOR LABOR AND MATERIAL INCLUDED IN HIS TENDER

4.0 TEMPORARY SERVICES

4.1 ALL TEMPORARY LIGHTING (MIN. 200LUX WITH MH HALIDE FIXTURE) AND POWER DURING CONSTRUCTION SHALL BE BY GENERAL CONTRACTOR AFTER AGREEMENT WITH ELECTRICAL CONTRACTOR AND SHALL BE TAKEN FROM EXISTING PANEL SERVING THE SPACE, SUPPLY VOLTAGE AND AMPS AS REQUIRED.

5.0 SHOP DRAWINGS

5.1 PRIOR TO ORDERING OR INSTALLING ANY EQUIPMENT SUBMIT TO ENGINEER FOR APPROVAL A MINIMUM OF TWO (2) COPIES OF SHOP DRAWINGS FOR EACH ITEM OF EQUIPMENT.

6.0 ALTERNATE EQUIPMENT

6.1 PROPOSAL SHALL BE BASED ON SPECIFIED EQUIPMENT AND MATERIAL.

6.2 PROPOSAL FOR ALTERNATE TO SPECIFICATION SHALL INCLUDE MANUFACTURER NAME, MODEL AND COST MODIFICATION.

6.3 COST OF ANY CHANGE REQUIRED TO OTHER TRADES WORK DUE TO SUBSTITUTION OF ALTERNATE EQUIPMENT, SHALL BE INCLUDED IN THE SUBCONTRACTOR'S PROPOSAL CALLING FOR THIS SUBSTITUTION. EVEN IF THESE CHANGES APPEAR AFTER THE DEMAND FOR SUBSTITUTION.

6.4 ALTERNATE PROPOSALS WILL BE ACCEPTED OR REJECTED BEFORE CONTRACTS ARE AWARDED. NO CHANGES WILL BE ALLOWED AFTER THE CONTRACT IS SIGNED.

7.0 IDENTIFICATION

7.1 ALL ELECTRICAL EQUIPMENT (SWITCHES, PANELS, CIRCUITS ETC..) MUST BE PROPERLY IDENTIFIED WITH LAMICOID NAME PLATES SCREWED ON PANELS AND HAVE A TYPED DIRECTORY AND INDICATE LOAD ON EACH CIRCUIT.

8.0 GROUND

8.1 THE GROUND SHALL BE CONTINUOUS AND SHALL BE CONFORM TO NATIONAL ELECTRICAL CODE.

9.0 PULLING AND JUNCTION BOXES

9.1 TRADE WILL PROVIDE PULLING AND JUNCTION BOXES WITH SCREWED PLATED COLOR MATCHED FOR WALL AND CEILING FINISHES.

9.2 ALL BOXES SHALL BE ACCESSIBLE.

9.3 BACK TO BACK BOXES WILL NOT BE ACCEPTED.

9.4 PULL BOXES SHALL BE LOCATED EVERY 100 FEET (30m) AND EVERY TWO 90 DEG. ELBOW.

9.5 ALL SURFACE MOUNTED BOXES FOR JUNCTION, SOCKETS, SWITCHES, FIXTURES ETC...,SHALL BE F.S. TYPE.

10.0 DRILLING

10.1 ELECTRICAL CONTRACTOR SHALL DRILL OR CHIP THE FLOOR WHERE REQUIRED. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL SLEEVES IN CONCRETE SLAB, WHERE REQUIRED.

10.2 NO ELECTRICAL OR PNEUMATIC HAMMER SHOULD BE USED.

10.3 EXISTING CONCRETE COLUMNS ARE NOT TO BE CHANNELED OR NOTCHED.

11.0 WIRING AND CONDUIT

11.1 ALL WIRING, WILL BE COPPER TYPE, No.12 AWG MINIMUM, UNLESS OTHERWISE NOTED.

11.2 ALL SURFACE WIRING, SHALL BE THWN TYPE IN E.M.T. CONDUIT. ALL COUPLINGS TO BE RAIN TIGHT OR GALVANIZED SET CREW TYPE.

11.3 ALL WIRING AND CONDUIT, WILL BE RECESSED IN WALL OR CEILING (INCLUDING EXISTING ARCHITECTURAL ELEMENTS) UNLESS APPROVED BY LOCAL INSPECTOR AND JHA. ELECTRICAL CONTRACTOR TO VERIFY.

11.4 ALL WIRING SHALL BE PARALLEL WITH ARCHITECTURAL LINES AND DESIGN.

11.5 FOR SUSPENDED CEILING, MC CABLE FOR 15 FEET (4.5m) IS ACCEPTED. MAIN WIRING TO BE THWN IN E.M.T. CONDUIT.

11.6 ALL EMPTY CONDUIT SHALL INCLUDE A PULLING WIRE No.12 AWG. - MAX. 6'-0" FLEXIBLE CONDUIT MAY BE USED FOR FIXTURE AND EQUIPMENT CONNECTIONS ONLY. PLASTIC CONDUIT IS NOT ACCEPTED.

12.0 FIRE BARRIER

12.1 IN CASE OF CROSSING A FIRE BARRIER (FLOOR, WALL, OR CEILING) FILL GAP WITH APPROPRIATE MATERIAL. THIS MATERIAL SHALL BE EFFICIENT BARRIER FOR FLAME, FUME AND GAS. SEAL AT SMOKE WALL.

13.0 EXPANSION JOINT

13.1 EACH TIME ELECTRICAL CONDUIT PASS THROUGH AN EXPANSION JOINT OF THE BUILDING USE GALVANIZED STEEL SLIDING TYPE EXPANSION JOINT WITH CONTINUOUS COPPER GROUNDING. FLEXIBLE AT THESE LOCATIONS.

14.0 FIXTURES AND LAMPS

14.1 COMPLETE LIGHTING PACKAGE IS OWNER (OR LANDLORD) FURNISHED (REFER TO LEASE AGREEMENT), GC INSTALLED. ELECTRICAL CONTRACTOR SHALL INSTALL ALL FIXTURES, LAMPS AND CONTROLS PER MANUFACTURER SPECS AND EDSS (ENERGY DESIGN SERVICE SYSTEMS) INSTALLATION INSTRUCTIONS.

15.0 FIELD CONDITIONS

15.1 ENGINEER CAN RELOCATE ALL EQUIPMENT (FIXTURES, OUTLETS, ETC...), AT NO COST, IF DISPLACEMENT IS LESS THAN 10 FEET (3m), AND WRITTEN NOTICE IS SENT TO CONTRACTOR PRIOR TO INSTALLATION.

15.2 CONFER WITH ALL OTHER TRADES AND ARRANGE EQUIPMENT IN PROPER RELATION WITH OTHER APPARATUS, DUCTS, PIPES, ETC. AND WITH BUILDING CONSTRUCTION AND ARCHITECTURAL FINISHES.

16.0 EXISTING CONDITIONS

16.1 ELECTRICAL CONTRACTOR WORK AFFECTING OTHER TENANT SHALL BE DONE OFF BUSINESS HOURS (NIGHT OR WEEKEND). COORDINATE WITH THE LANDLORD.

16.2 ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE ANY UNUSED MATERIAL.

16.3 ANY NON REUSED MATERIAL SHALL BE GIVEN BACK IN GOOD CONDITION TO LANDLORD

16.4 ANY DAMAGED WALL, FLOOR, CEILING, FINISHES SHALL BE REPAIRED BY GENERAL CONTRACTOR THOSE REPAIRS SHALL MATCH EXISTING FINISHES.

17.0 COMMUNICATIONS

17.1 TENANT IS IN CHARGE FOR ANY COMMUNICATIONS SYSTEMS.

17.2 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL, IF REQUIRED, TELEPHONE TERMINAL BOARD, 24"x24" PLYWOOD 3/4" THICK, AND CONDUIT AS INDICATED ON DRAWINGS.

17.3 ALL WIRING, INCLUDING INSTALLATION AND CONNECTION TO EQUIPMENT SHALL BE PERFORMED BY A SPECIALIZED CONTRACTOR, IN CHARGE OF THE TENANT.

18.0 FIRE ALARMS

18.1 EXISTING FIRE ALARM TO BE KEPT. TENANT'S FIRE ALARM CONTRACTOR TO RELOCATE IF REQUIRED ANY EQUIPMENT AT NO COST.

18.2 ALL REQUIRED WORK RELATED TO LIFE SAFETY SYSTEMS SHALL BE DONE AT NO EXTRA COST. RETAIN THE SYSTEM MANUFACTURER'S FORCES TO PERFORM FINAL CONNECTIONS, MODIFICATIONS AND PROVISION OF NEW INTERFACING DEVICES IN THE SYSTEM PANELS, ETC.

18.3 ENSURE FULL COMPATIBILITY OF ALL NEW DEVICES WITH EXISTING LIFE SAFETY SYSTEMS.

18.4 TENANT'S FIRE ALARM CONTRACTOR SHALL HAVE SYSTEM MANUFACTURER TEST AND CERTIFY LIFE SAFETY SYSTEMS FOR PROPER OPERATION AT COMPLETION OF WORK.

19.0 COLOR CODE

	120/208V	120/240V HIGH LEG 3P 4W	277/480V
PHASE A	BLACK	BLACK	BROWN
PHASE B	RED	ORANGE	ORANGE
PHASE C	BLUE	BLUE	YELLOW
NEUTRAL	WHITE	WHITE	GREY
GROUND	GREEN	GREEN	GREEN

20.0 SPECIAL NOTES

20.1 ELECTRICAL CONTRACTOR TO PROVIDE UNDERGROUND CONDUIT TO EC PROVIDED SURFACE MOUNTED J-BOXES, OWNER FURNISHED RECESSED FLOOR BOXES AND OWNER FURNISHED POKE-THRU BOXES AS INDICATED AND PROVIDE APPROVED FLEX CONNECTION ASSEMBLY. LEAVE FLEX CONNECTION ASSEMBLY COILED AND TAPED AS REQ'D UNTIL FIXTURE INSTALLATION. AFTER FIXTURE INSTALLATION EC TO INSTALL POWER RECEPTACLES IN PRE-INSTALLED BLANK BOXES INSIDE FIXTURE, PROVIDE POWER CIRCUIT FROM PANEL TO RECEPTACLES AND CONNECTION POWER SOURCE. EC TO PROVIDE PULL STRING FROM TELEPHONE BOARD TO ALL FIXTURE DESIGNATIONS FOR CAT6 DATA CABLING AND RJ45 JACKS BY OWNER'S VENDOR. SEE WIRING DETAILS ON E500 SHEETS FOR ADDITIONAL INFORMATION.

20.2 ON ALL OUTLETS LOCATED IN POS COUNTERS, ETC..., ELECTRICAL TRADE SHALL ATTACH ALL CONDUITS TO THE FLOOR WITH APPROPRIATE CONNECTORS. GC MUST OBTAIN WRITTEN APPROVAL FROM THE LANDLORD PRIOR TO ANY TRENCHING OR CORE DRILLING.

20.3 RECEPTACLES, OUTLETS, ETC..., LOCATED AT THE CASH COUNTERS SHALL BE INSTALLED IN COMMON BOXES. USE 1 GANG, 2 GANG, 3 GANG OR 4 GANG, ETC..., BOXES C/W SEPARATIONS AS PER CODE, AS REQUIRED. BOXES SUPPLIED, INSTALLED AND CONNECTED BY THE ELECTRICAL CONTRACTOR.

21.0 DEMOLITION

21.1 REMOVE AND TRANSPORT OUT OF THE CONSTRUCTION SITE ALL EQUIPMENT MADE OBSOLETE CONSECUTIVE TO THE WORK, INCLUDING WIRING, CONDUITS, BOXES, OUTLETS, SWITCHES, LIGHTING FIXTURES, DISTRIBUTION EQUIPMENT, SUPERVISORY AND COMMUNICATION EQUIPMENT. ALL ACCESSORIES BEING PART OF THE ELECTRICAL INSTALLATION.

21.2 REMOVE THE WIRING AND THE CONDUIT UP TO THE LAST PANEL OR BOX KEPT IN THE NETWORK.

21.3 PUT BACK IN SERVICE ALL FEEDERS, CONTROL OR COMMUNICATION CABLES WHEN THE CONTINUITY OF THOSE SERVICES IS INTERRUPTED BY THE WORK.

22.0 SPECIFICATIONS

22.1 DISCONNECT AS PER CUTLER-HAMMER

MODEL	FUSE	INSTALLATION
HD	WITH	INTERIOR
HD	WITHOUT	INTERIOR
RD	WITH	EXTERIOR
RD	WITHOUT	EXTERIOR

22.2 FUSES AS PER GOULD

GAGE	MODEL	SPARE QTY.
0-600A	AJT	10% (MINIMUM 6)

22.3 SPLITTER BOXES AND TROUGHS, AS PER BEL, 14 GA STEEL WITH HINGED COVER CLOSED WITH SCREWS, TINNED COPPER BUS BARS, COMPLETE WITH SOLDERLESS TERMINALS. BARS SUPPORTED BY ISOLATORS.

22.4 TRANSFORMERS AS PER DELTA, DT (TRIPLE PHASE).

22.5 PANELS C/W DOORS AND LOCKS, AS PER CUTLER-HAMMER

USAGE	VOLTAGE	MODEL
LIGHTING	120/208V 3PH	PRL-1
BREAKERS WITH 10,000 A SYMMETRICAL INTERRUPTING CAPACITY, UNLESS OTHERWISE NOTED.		

22.6 OUTLETS AS PER LEVITON, MODEL NO. 5262, WHITE.

22.7 SWITCH

TYPE	MODEL
UNIPOLAR	5401/001
BIPOLAR	54502/001
THREE WAY	54503/001
FOUR WAY	54504/001

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Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

SYMBOLS LEGEND

NOTE: NOT ALL SYMBOLS LISTED BELOW ARE SHOWN ON PLANS

SWITCHING

- ENTOUCH.one DIMMING LOAD CONTROLLER (DLC)
- SB — SWITCH BANK
- $ — SWITCH
- ϕ — DIMMER SWITCH
- OC — OCCUPANCY SENSOR - CEILING MOUNTED
- O$ — OCCUPANCY SENSOR - WALL MOUNTED
- PC — PHOTOCELL - CEILING MOUNTED
- LCB — LCB - LIGHTING CONTROL BOX
- TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSOR

TAGS

- AA / BB — DETAIL DESIGNATION: AA - DETAIL NUMBER, BB - SHEET NUMBER
- X — SHEET NOTE
- AA / BB — SECTION DESIGNATION: AA - DETAIL NUMBER, BB - SHEET NUMBER

POWER DISTRIBUTION DEVICES

- PANELBOARD SURFACE MOUNTED MAXIMUM 72" TO TOP OF OVERCURRENT PROTECTION
- T — TRANSFORMER
- DISCONNECT SWITCH
- M — METER
- DUPLEX RECEPTACLE - 20A 18" AFF UNO
- QUADPLEX RECEPTACLE - 20A 18" AFF UNO
- GFI — RECEPTACLE WITH GROUND FAULT INTERRUPTER
- WP — WEATHERPROOF RECEPTACLE 18" AFF UNO
- SHOW WINDOW RECEPTACLE
- J — JUNCTION BOX

DATA / COMMUNICATION

- XX — TELEPHONE / DATA - RJ45 JACK W/ CAT6 WIRES. CONDUIT WITH PULLWIRE TO ABOVE ACCESSIBLE CEILING, CABLE IS BY OWNER.
- XX — OVERHEAD AP CABLING

SECURITY / COMMUNICATION

- KP — ROUGH-IN FOR ADT KEY PAD @ 48"A.F.F.
- T / S — THERMOSTAT / ZONE TEMPERATURE SENSOR

GENERAL WIRING

- HOMERUN - CONDUIT SYSTEM TO PANEL AS NOTED ON DRAWINGS
- CONDUIT SYSTEM UNDER FLOOR
- CONDUIT UP
- TELEPHONE TERMINAL BOARD SEE DETAIL ON SHEET E101
- JUNCTION BOX

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BOH	BACK OF HOUSE
CB	CIRCUIT BREAKER
DL	DAYLIGHT
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
GC	GENERAL CONTRACTOR
IG	ISOLATED GROUND
JB	JUNCTION BOX (J-BOX)
JHA	JURISDICTION HAVING AUTHORITY
LL	LANDLORD
MLO	MAIN LUG ONLY
MCB	MAIN CIRCUIT BREAKER
OR	ORANGE
SW	SHOW WINDOW
TGC	TENANT GENERAL CONTRACTOR
WH	WHITE

GENERAL ELECTRICAL NOTES

A. FIELD VERIFY ALL CONDITIONS.

B. DESIGN DRAWINGS ARE SCHEMATIC. ONCE ONSITE GENERAL CONTRACTOR IS TO INSPECT EXISTING FIELD CONDITIONS. RFI SHALL BE SUBMITTED FOR ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

C. THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER ONCE ONSITE FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN INTENT PRIOR TO COMMENCEMENT OF WORK.

D. BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

E. RFI SHALL BE SUBMITTED FOR ANY UNFORESEEN CONDITIONS THAT MAY EFFECT THE CONTRACTOR'S SCOPE OF WORK. MINOR VARIATIONS REQUIRED FOR ACCOMPLISHING THE INTENT OF THIS DESIGN SHALL BE INCLUDED IN THE RFI.

F. PROVIDE ALL REQUIRED PERMITS. CONTRACTOR'S INSTALLATION SHALL CONFORM TO ALL LOCAL CODE REQUIREMENTS.

G. VERIFY EXACT PLACEMENT OF ALL DEVICES SHOWN ON THE DOCUMENTS WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS PRIOR TO FINAL PLACEMENT.

H. BECOME FAMILIAR WITH REQUIRED DEMOLITION WORK PRIOR TO BIDDING AND START OF WORK. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL DEMOLITION AS REQUIRED FOR INSTALLATION OF NEW WORK.

I. COORDINATE INSTALLATION OF ELECTRICAL WORK ABOVE THE CEILING TO PROVIDE THE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF PLUMBING AND MECHANICAL. CONDUIT RUNS SHALL BE RUN THROUGH TRUSSES WHERE POSSIBLE.

J. COORDINATE EXACT LOCATION OF DEVICES SERVING CASEWORK WITH FIXTURE CONTRACTOR.

K. COORDINATE ALL LOW VOLTAGE CONDUIT AND ROUGH-IN REQUIREMENTS WITH LOW VOLTAGE CONTRACTORS.

L. SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, TRANSFORMERS AND CONTACTORS SHALL BE "LISTED" AND "IDENTIFIED" AS RATED FOR A MINIMUM OF 75°C CONDUCTOR TERMINATION.

M. INCLUDE A COPPER EQUIPMENT GROUND CONDUCTOR IN ALL RACEWAYS. SIZE RACEWAYS AS NECESSARY TO COMPLY WITH NEC.

N. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PULL WIRE.

O. ALL 20A BRANCH CIRCUITS BETWEEN 100' AND 150' IN LENGTH, #10 AWG COPPER WIRE SHALL BE USED. FOR ALL 20A BRANCH CIRCUITS OVER 150' IN LENGTH, #8 AWG COPPER WIRE SHALL BE USED.

P. ALL 20A BRANCH CIRCUITS LESS THAN 100' IN LENGTH, SHALL BE #12 COPPER CONDUCTORS, #12 GND., 3/4" UNLESS NOTED OTHERWISE. TYPE MC CABLE MAY BE USED FOR BRANCH CIRCUITS ABOVE CEILINGS AND FOR FINAL FIXTURE CONNECTIONS. DO NOT USE TYPE MC EXPOSED UNLESS APPROVED BY LOCAL INSPECTOR AND JHA. ELECTRICAL CONTRACTOR TO VERIFY.

Q. CIRCUITING INDICATED ON PLAN IS DIAGRAMMATIC FOR CLARITY. CIRCUITING SHALL BE "THRU-WIRING" WHERE/WHEN POSSIBLE. MULTI-CONNECTIONS TO A SINGLE LIGHT FIXTURE FOR FIELD CONDITIONS OR VOLTAGE DROP FACTORS MAY BE REQUIRED (FIXTURES SHALL BE MANUFACTURED TO ACCOMMODATE "THRU-WIRING"), AND RELATED COSTS SHALL BE INCLUDED IN BID.

R. MAKE ALL FINAL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.

S. WHERE DRYWALL CEILINGS ARE USED, CONTRACTOR SHALL ARRANGE CIRCUITING SO THAT JUNCTION/BOXES ACCESS PANELS ARE NOT INSTALLED IN THESE DRYWALL CEILING AREAS. (THE USE OF JUNCTION BOXES IN THESE DRYWALL CEILINGS IS NOT PERMITTED, ARRANGE CIRCUITS TO AVOID THIS SITUATION). FIELD COORDINATE WITH TENANT'S CONSTRUCTION MANAGER PRIOR TO ROUGH-IN TO AVOID CONFLICTS. JUNCTION BOXES MAY BE PLACED ABOVE LAY-IN CEILINGS.

T. FIELD VERIFY EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR, PRIOR TO ORDERING RELATED ELECTRICAL EQUIPMENT.

U. PLACEMENT OF ALL RECEPTACLES SHALL BE INTENTIONAL (I.E. CENTERED ON COLUMNS OR WALL FEATURES, OR TIGHT TO CORNER). IF RECEPTACLE IS NOT SHOWN IN A DESIRABLE LOCATION, FIELD VERIFY EXACT PLACEMENT OF RECEPTACLE WITH TENANT'S CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.

V. PROVIDE ALL NECESSARY COMPONENTS TO MAKE A COMPLETE WORKING SYSTEM. VERIFY ROW LENGTHS, FEED POINT AND MOUNTING REQUIREMENTS PRIOR TO ORDERING.

W. TAKE ADEQUATE CARE TO CORRECTLY LOCATE ALL ELECTRICAL STUB OUTS, FLOOR BOXES, J-BOXES, TRACK, ETC. PRECISE LOCATIONS OF FLOOR OUTLETS AND J-BOXES IS VERY IMPORTANT.

X. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE ABOVE THE ELECTRICAL EQUIPMENT. NEC 110.34(f).

Y. FUSES SHALL BE PROVIDED WITH REJECTION TYPE FUSE HOLDERS. NEC 240.60B.

Z. PROVIDE DEDICATED CIRCUIT FOR EQUIPMENT CLASSED AS EMERGENCY. NEC 700.18.

AA. ATTAIN EXISTING BUILDING LOAD INFORMATION AND VERIFY AMPACITY AND DEMAND FOR BUILDING TO ENSURE THAT ALL LOADS (EXISTING AND NEW) DO NOT EXCEED THE AMPACITY OF THE SERVICE FEEDER(S) OR RATING OF THE SERVICE, PER NEC 220.40.

AB. ALL DEDICATED RECEPTACLES SHALL BE RATED TO NOT LESS THAN THE RATING OF THE BRANCH CIRCUIT SERVING THE RECEPTACLE.

AC. SUPPORT VERTICAL CABLE RUNS PER NEC 300.19.

AD. ELECTRICAL CONTRACTOR TO LABEL ALL RECEPTACLES AND PROVIDE A TYPE-WRITTEN PANEL SCHEDULE INSIDE THE ELECTRICAL PANEL.

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SOUTH MERIDIAN & 43RD AVE SE
4227 S MERIDIAN SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y
PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

CLINTON LUCAS — STATE OF WASHINGTON — 23036882 — REGISTERED PROFESSIONAL ENGINEER
11/26/2024

PRCTI20241902

DATE: 11.11.2024

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GEMINI ENGINEERING GROUP
101 Nightfinger Lane
Millsap, TX 76066
(817) 901-5191

##	DESCRIPTION	DATE

DATE: 11.11.2024
DRAWN BY: HO

ELECTRICAL SPECIFICATIONS

E701

DRAINAGE FIXTURE UNITS

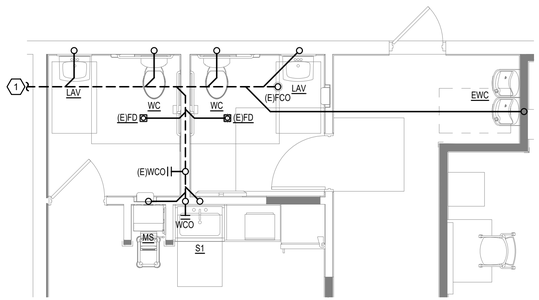
TAG	QUANTITY	UNITS PER FIXT	TOTAL DRAINAGE FU'S
WC	2	4	8
LAV	2	1	2
FD (EM)	2	0.0	0.0
S1	1	2	2
MS	1	3	3
EWC	1	0.5	0.5
TOTALS			15.5

SUPPLY FIXTURE UNITS

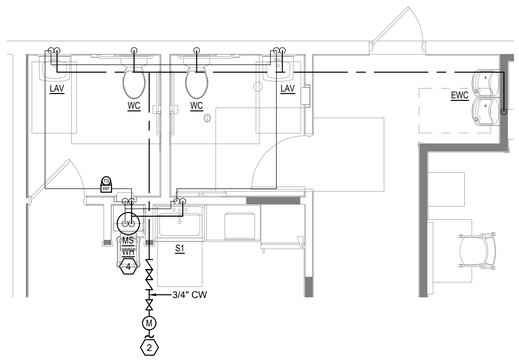
TAG	QUANTITY	UNITS PER FIXT	COLD FU'S	HOT FU'S
WC	2	2.5	5.0	-
LAV	2	1	2	2
S1	1	1.5	1.5	1.5
MS	1	3.0	3.0	3.0
EWC	1	0.5	0.5	-
TOTALS			12.0	6.5

KEYED NOTES

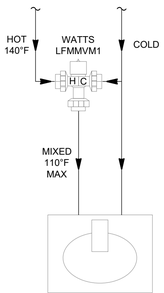
##	NOTES
1	PROVIDE SANITARY PIPING TO NEW PLUMBING FIXTURES. CONNECT NEW PIPING TO EXISTING SANITARY LINE SERVING THE EXISTING TOILET ROOM. FIELD VERIFY CONNECTION LOCATION, INVERT, AND DIRECTION OF FLOW PRIOR TO BID.
2	PROVIDE NEW DOMESTIC HOT/COLD WATER DISTRIBUTION PIPING. CONNECT TO EXISTING WATER LINE SERVING THE EXISTING TOILET ROOM. FIELD VERIFY LOCATION PRIOR TO BID. COORDINATE ALL METER REQUIREMENTS AND METER LOCATION WITH LANDLORD REPRESENTATIVE.
3	PROVIDE NEW VENT PIPING TO ROOF. SEE DETAIL ON SHEET P501. VERIFY THE POSSIBLE RE-USE OF EXISTING ROOF VENT AND CONNECT TO EXISTING VENT PIPING SYSTEM IF EXISTING MEETS OR EXCEEDS SIZE SHOWN. FIELD VERIFY CONNECTION LOCATION PRIOR TO BID.
4	PROVIDE NEW SHELF MOUNTED ELECTRIC WATER HEATER. CONNECT TO EXISTING WATER PIPING. PIPE PRESSURE RELIEF VALVE TO MOP SINK. SEE DETAIL ON SHEET P501.
5	PROVIDE NEW AUTOMATIC TRAP PRIMER FOR TOILET ROOM FLOOR DRAIN(S).
6	PROVIDE 1/4" MUR-LOK LLPDE BLACK POLYETHYLENE WATERLINE FROM (S1) SINK TO QUENCH WATER BOTTLE FILLER WITH EMERGENCY WATER SHUT-OFF. PROVIDE 1/4" MUR-LOK LLPDE BLACK POLYETHYLENE DRAIN HOSE FOR R.O. WATER TO SADDLE DRAIN AT SINK (S1) TAIL PIECE ABOVE P-TRAP.
7	PROVIDE MIXING VALVES AT ALL LAVS SET AT 110° F. HOT WATER LOOP SHALL DROP FROM OVERHEAD TO WITHIN 6 INCHES OF LAVATORY CONNECTION AS DIRECTED BY SPS 382.40(3)(b) & IECC C404.5.1(b).



B4 PLUMBING SANITARY FLOOR PLAN
NTS

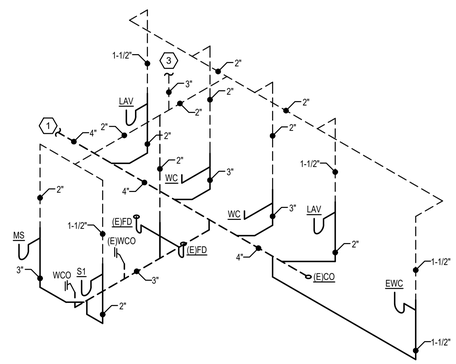


B3 PLUMBING DOMESTIC WATER FLOOR PLAN
NTS

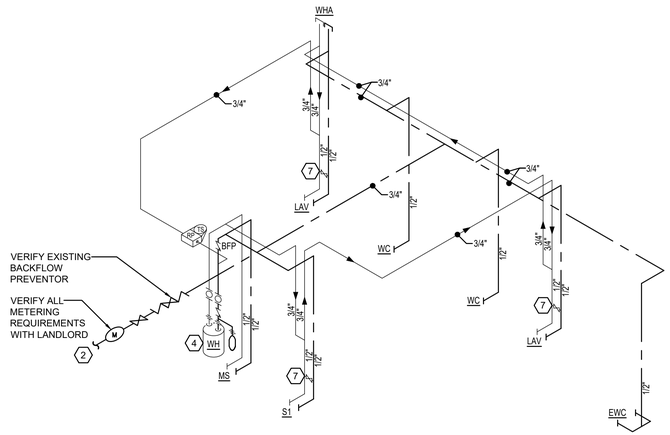


TYPICAL ASSE 1070 APPLICATION

B1 THERMOSTATIC MIXING VALVE
NTS



A4 WASTE & VENT RISER DIAGRAM
NTS



A3 WATER RISER DIAGRAM
NTS

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

PIPE MATERIAL SPECIFICATIONS

PIPING SERVICE	PIPING MATERIAL		NOTE
	ABOVE GROUND	BELOW GROUND	
COLD WATER HOT WATER	TYPE "L" COPPER WROT FITTINGS	TYPE "K" COPPER FLARED FITTINGS	1
SANITARY DRAINAGE	SERVICE WEIGHT CAST IRON OR SCHEDULE 40 PVC	SERVICE WEIGHT CAST IRON OR SCHEDULE 40 PVC	2
SANITARY VENT	SERVICE WEIGHT CAST IRON OR SCHEDULE 40 PVC	SERVICE WEIGHT CAST IRON OR SCHEDULE 40 PVC	2
CONDENSATE	TYPE "L" COPPER	NA	3

NOTES:
1. ASTM B88 HARD DRAWN COPPER. JOINING PER ANSI/ASTM B32, "LEAD-FREE" SOLDER. INSULATION: 3/4" PIPE OR LESS - 1/2" THICK FIBERGLASS, 1" PIPE OR MORE - 1" FIBERGLASS.
2. JOINING PER ASTM D2564 SOLVENT WELDED.
3. ASTM B306 COPPER. JOINING PER ANSI/ASTM B32, "LEAD-FREE" SOLDER GRADE 50B. INSULATION: 1/2" THICK ARMAFLEX.

GENERAL NOTES:
A. SUBJECT TO APPROVAL BY OWNER, ENGINEER AND LOCAL AUTHORITIES.
B. UNDER NO CIRCUMSTANCES SHALL PLASTIC PIPING (PVC) BE INSTALLED IN RETURN AIR CEILING PLENUMS.

GENERAL NOTES

A. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND VERIFY ALL WORKING CONDITIONS, CLEARANCES, AND REQUIREMENTS FOR PROVIDING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN THE CONTRACT OR CONTRACT SUM WILL BE MADE DUE TO THE FAILURE TO THOROUGHLY EXAMINE THE SITE AND CONDITIONS.

B. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAW CUTTING REQUIRED FOR THIS JOB. COORDINATE BACKFILLING AND CONCRETE PATCHING RESPONSIBILITIES WITH THE GENERAL CONTRACTOR.

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DESIGN TYPE: E1Y
PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

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11/26/2024

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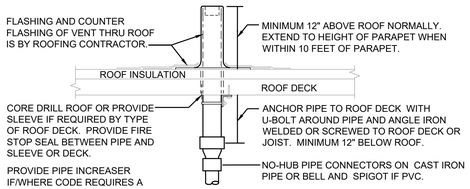
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##	DESCRIPTION	DATE

DATE: 11.11.2024
DRAWN BY: HO

PLUMBING FLOOR PLANS AND RISER DIAGRAMS

P101

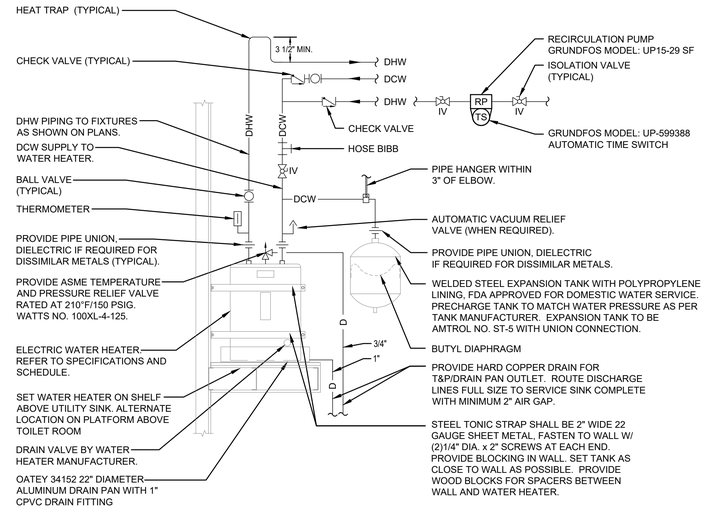


REFER TO PLANS FOR VENT THRU ROOF PIPE SIZES AND LOCATIONS. LOCATE VENT THRU ROOF MINIMUM THREE FEET FROM PROPERTY LINE, OR TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, OR ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VENT THRU ROOF MINIMUM 18" FROM PARAPET, EXPANSION JOINT, EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.

C3 VENT THROUGH ROOF

NTS

NOTE:
1. FIRST 8'-0" OF OUTLET PIPING TO BE INSULATED.
2. ALL HEAT TRACED OR EXTERNALLY HEATED PIPING TO BE INSULATED.

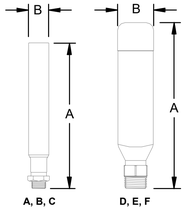


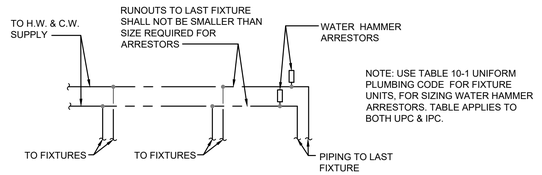
REFER TO SPECIFICATIONS, SCHEDULES AND NOTES FOR ADDITIONAL INFORMATION. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. VERIFY ALL CONNECTION SIZES AND LOCATIONS PER MANUFACTURER'S REQUIREMENTS. ADJUST TO SUIT FIELD CONDITIONS. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF EXPANSION TANK. REFER TO FLOOR PLANS FOR PIPE SIZES. PROVIDE SEISMIC STRAP OR BRACING, HEAT TRAP AND AUTOMATIC VACUUM RELIEF VALVE WHEN REQUIRED BY LOCAL AUTHORITIES.

B2 ELECTRIC DOMESTIC WATER HEATER

NTS

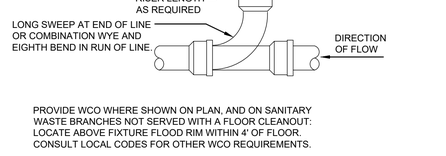
MODEL	PDI SIZE	MNPT THREAD		DIMENSIONS (approximate) A		B		FIXTURE UNIT CAPACITY	PIPE SIZE in.
		in.	mm.	in.	mm.	in.	mm.		
1260XL-A	A	1/2	15	6 1/4	159	7/8	22	1 - 11	1/2
1260XL-B	B	3/4	20	7 1/4	184	7/8	22	12 - 32	3/4
1260XL-C	C	1	25	9 1/4	235	1 1/8	28.6	33 - 60	1
1260XL-D	D	1	25	9 1/2	241	1 3/4	44	61 - 113	1 1/4
1260XL-E	E	1	25	11 1/4	286	2 1/2	64	114 - 154	1 1/2
1260XL-F	F	1	25	12	305	2 7/8	73	155 - 330	2





B4 WATER HAMMER ARRESTOR

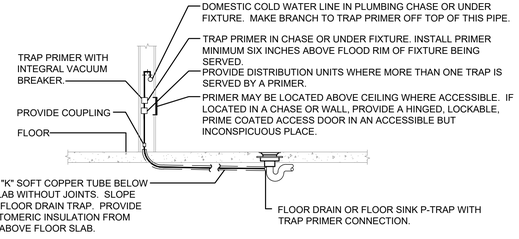
NTS



PROVIDE WCO WHERE SHOWN ON PLAN, AND ON SANITARY WASTE BRANCHES NOT SERVED WITH A FLOOR CLEANOUT: LOCATE ABOVE FIXTURE FLOOD RIM WITHIN 4' OF FLOOR. CONSULT LOCAL CODES FOR OTHER WCO REQUIREMENTS.

B3 WALL CLEAN OUT

NTS



DETAIL SHOWS TRAP PRIMER INSTALLATION CONCEALED FOR PUBLIC AREAS, SUCH AS TOILETS. IN NON-PUBLIC AREAS, SUCH AS EQUIPMENT ROOMS, TRAP PRIMERS MAY BE INSTALLED THIS WAY ALSO, OR IN EASILY-ACCESSIBLE, EXPOSED BUT INCONSPICUOUS LOCATIONS, THEREBY OMITTING THE ACCESS DOOR. INSULATION ONLY ABOVE GROUND ON "M" OR "L" COPPER.

A4 AUTOMATIC TRAP PRIMER

NTS

PLUMBING FIXTURE SCHEDULE

MARK	SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	COLD	HOT	WASTE	VENT	REMARKS
WC		WATER CLOSET	AMERICAN STANDARD	2467.016	1/2"	--	3"	2"	CADET CHAIR HEIGHT ELONGATED TOILET (1.6 GPF). COLOR: WHITE. ADA COMPLIANT, FLOOR MOUNTED. COORDINATE HANDLE SIDE REQ'D BEFORE ORDERING. SEAT: #5901.110T ELONGATED HEAVY DUTY OPEN FRONT SEAT.
LAV		LAVATORY	AMERICAN STANDARD	LUCERN 0356.041	1/2"	1/2"	2"	1-1/2"	SINGLE HOLE, ADA COMPLIANT, WALL-HUNG LAVATORY. PROVIDE WITH "AMERICAN STANDARD" 7755.305 NEXTGEN SELECTRONIC INTEGRATED PROXIMITY LAVATORY FAUCET (0.5 GPM) DC POWERED. OFFSET TRAP WITH INSULATED "TRAP WRAP" PROTECTIVE KIT 500R BY BROCAR. PROVIDE "WATTS" LFMMVM1 THERMOSTATIC MIXING VALVE (ASSE 1070, CSA B125.3 CERTIFIED). SET MAX. TEMP. TO 100° F.
S1		SINK	ELKAY	GECR2521	1/2"	1/2"	2"	1-1/2"	SELF RIMMING, 20 GA 304 SS, 25x21-1/4, 5 3/8 DEEP, 3 HOLES, 4" O.C. PROVIDE WITH PEERLESS MODEL P2935LF TWO HANDLE KITCHEN FAUCET IN CHROME (1.5 GPM). PROVIDE "WATTS" LFMMVM1 THERMOSTATIC MIXING VALVE (ASSE 1070, CSA B125.3 CERTIFIED). SET MAX. TEMP. TO 100° F.
MS		MOP SINK	FLORESTONE	MSR-2424	1/2"	1/2"	3"	2"	MOLDED MOP RECEPTOR WITH "CHICAGO FAUCET" 911-IS369CP LEVER HANDLES. RCF FAUCET WITH 892-GABCP ELEVATED VACUUM BREAKER.
EWC		ELECTRIC WATER COOLER	ELKAY	EZSTL8WSLK	1/2"	--	1-1/2"	1-1/2"	ELECTRIC WATER COOLER WITH EZH20 BOTTLE FILLING STATION, BARRIER FREE, 8 GALLONS PER HOUR, 115V/60Hz, 370W. UNIT TO BE INSTALLED WITH ACCESSORY APRON FOR ADA COMPLIANCE.
FD		FLOOR DRAIN	ZURN	FD-P	1/2"	--	3"	2"	CAST IRON, POLISHED BRONZE. INSTALL FLUSH WITH FLOOR. PROVIDE "PRECISION PLUMBING PRODUCTS" P2-500 AUTOMATIC TRAP PRIMER WITH ANTI SIPHON PORTS, SERVES 2 FLOOR DRAINS EA., 1/2" CONNECTION.
WH		WAETER HEATER	A.O.SMITH	EJC-10	3/4"	3/4"	--	--	10 GALLON, 120/1Ø, 1650W ELEMENT, 18-1/4" TALL, 16" DIA., 41 LBS.
RP	RP TS	RECIRCULATION PUMP	GRUNDFOS	UP15-29 SF	--	3/4"	--	--	FOR HOT WATER LOOP. PROVIDE GRUNDFOS UP-599388 AUTOMATIC TIME SWITCH SET TO SWITCH OFF THE TEMPERATURE MAINTENANCE SYSTEM DURING EXTENDED PERIODS WHEN HOT WATER IS NOT REQUIRED.
WB		WATER BUBBLER	QUENCH	Q4	--	--	--	--	--

T-Mobile
12920 SE 38th STREET
BELLEVUE, WA 98006
WWW.T-MOBILE.COM

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SOUTH MERIDIAN & 43RD AVE SE

4227 S MERIDIAN SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y

PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024 DCD: XX

CLINTON LUCAS — STATE OF WASHINGTON — 23036882 — REGISTERED PROFESSIONAL ENGINEER
11/26/2024

PRCTI20241902

DATE: 11.11.2024

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GEMINI ENGINEERING GROUP
101 Nightlinger Lane
Millsap, TX 76066
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##	DESCRIPTION	DATE

DATE: 11.11.2024
DRAWN BY: HO

PLUMBING SCHEDULE AND DETAILS

P501

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning | Engineering | Public Works | Fire | Traffic

ABBREVIATIONS

ABBREV1

NOTE: ABBREVIATIONS MAY OR MAY NOT HAVE PERIODS, BUT SHALL BE READ AS SAME.

A.B. — ANCHOR BOLT
A.B.C. — AGGREGATE BASE COURSE
ACI — AMERICAN CONCRETE INSTITUTE
A/C — AIR CONDITIONER
A.F.F. — ABOVE FINISHED FLOOR
AISC — AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI — AMERICAN IRON AND STEEL INSTITUTE
AITC — AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ALT. — ALTERNATE
ANSI — AMERICAN NATIONAL STANDARDS INSTITUTE
APA — AMERICAN PLYWOOD ASSOCIATION
ARCH'L — ARCHITECTURAL
ASTM — AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS — AMERICAN WELDING SOCIETY
A.W.T.S. — AUTOMATIC WELDED THREADED STUDS
BM — BEAM
B.F.F — BELOW FINISHED FLOOR
BLK — BLOCK
B.O.B. — BOTTOM OF BEAM
B.O.D. — BOTTOM OF DECK
B.O.F. — BOTTOM OF FOOTING
BRG — BEARING
C — CAMBER
C.C. — CENTERLINE TO CENTERLINE
CFS — COLD FORMED STEEL
C.G. — CENTER OF GRAVITY
C.I.P. — CAST IN PLACE
C.L. — CENTERLINE
C.L.B. — CENTERLINE OF BEAM
C.L.C. — CENTERLINE OF COLUMN
C.L.F. — CENTERLINE OF FOOTING
C.L.W. — CENTERLINE OF WALL
CLR — CLEAR
CONC — CONCRETE
CONC C.J. — CONCRETE CONTROL JOINT
CONC S.J. — CONCRETE SAWCUT JOINT
C.M.U. — CONCRETE MASONRY UNIT
CONN — CONNECTION
CONT — CONTINUOUS
CRSI — CONCRETE REINFORCING STEEL INSTITUTE
D.F. (D.F.L.) — DOUGLAS FIR LARCH
DL — DEAD LOAD
DIA — DIAMETER
DN — DOWN
DWG(S) — DRAWING(S)
E.C. — END TO CENTERLINE
E.E. — END TO END
E.O.S. — EDGE OF SLAB
EQ — EQUAL
EQUIP — EQUIPMENT
EXP. BOLT (E.B.) — EXPANSION BOLT
EXP. JT (E.J.) — EXPANSION JOINT
E.W. — EACH WAY
(E) — EXISTING
F.F. — FINISHED FLOOR
F.O.M. — FACE OF MEMBER
F.O.S. — FACE OF STEEL
F.O.W. — FACE OF WALL
GA — GAGE (UNIT OF MEASUREMENT)
GALV — GALVANIZED
G.S.N. — GENERAL STRUCTURAL NOTES
GLB (GLULAM) — GLUED-LAMINATED BEAM
H.F. — HEM FIR
HORIZ — HORIZONTAL REINFORCING
H.S. — HEADED STUDS
IBC — INTERNATIONAL BUILDING CODE
ICC — INTERNATIONAL CODE COUNCIL
ICF — INSULATED CONCRETE FORMS
I.F.W. — INSIDE FACE OF WALL
I.O.D. — INTERPRETATION OF DRAWINGS
JST — JOIST
K(KIP) — 1000 POUNDS
KLF — KIPS PER LINEAR FOOT
LBS (#) — POUNDS
LDR — LEDGER
LGS — LIGHT GAGE STEEL
LGSEA — LIGHT GAGE STEEL ENGINEERS ASSOCIATION
L.O.D. — LOCATION OF DETAILS
LL — LIVE LOAD
LLH — LONG LEG HORIZONTAL
LLV — LONG LEG VERTICAL
MAS — MASONRY
MAS C.J. — MASONRY CONTROL JOINT
MAX — MAXIMUM
MBMA — METAL BUILDING MANUFACTURERS ASSOCIATION
MECH'L — MECHANICAL
MFR'D — MANUFACTURED
MFR('S) — MANUFACTURER('S)
MIN — MINIMUM
N/A — NOT APPLICABLE
N.T.S. — NOT TO SCALE
O.C. — ON CENTER
O.F.W. — OUTSIDE FACE OF WALL
OPP — OPPOSITE
OSHA — OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PCI — PRECAST/PRESTRESSED CONCRETE INSTITUTE
P.C. — PRECAST CONCRETE
PCF — POUNDS PER CUBIC FOOT
PLF — POUNDS PER LINEAR FOOT
± — PLUS OR MINUS
PREFAB — PREFABRICATED
PSF — POUNDS PER SQUARE FOOT
PSI — POUNDS PER SQUARE INCH
PT — POST-TENSIONED
PTI — POST-TENSIONING INSTITUTE
REINF — REINFORCING
SDI — STEEL DECK INSTITUTE
SLH — SHORT LEG HORIZONTAL
SLV — SHORT LEG VERTICAL
SJI — STEEL JOIST INSTITUTE
SIM — SIMILAR
SQ. — SQUARE
SSMA — STEEL STUD MANUFACTURERS ASSOCIATION
STD — STANDARD
STL — STEEL
TL — TOTAL LOAD
T.O.B. — TOP OF BEAM
T.O.C.T. — TOP OF CONCRETE TOPPING
T.O.D. — TOP OF DECK
T.O.F. — TOP OF FOOTING
T.O.L. — TOP OF LEDGER
T.O.M. — TOP OF MASONRY
T.O.P. — TOP OF PLATE
T.O.P.C. — TOP OF PRECAST CONCRETE
T.O.S. — TOP OF STEEL
T.O.W. — TOP OF WALL
TPI — TRUSS PLATE INSTITUTE
TYP — TYPICAL
T&G — TONGUE AND GROOVE
U.N.O. — UNLESS NOTED OTHERWISE
VERT — VERTICAL REINFORCING
WCLA — WEST COAST LUMBER ASSOCIATION
WCLIB — WEST COAST LUMBER INSPECTION BUREAU
W.W.F. — WELDED WIRE FABRIC
WWPA — WESTERN WOOD PRODUCTS ASSOCIATION
W/C — WATER TO CEMENT RATIO
W/O — WITHOUT

GENERAL STRUCTURAL NOTES

Applies unless noted otherwise on drawings

BUILDING CODE:

2021 EDITION OF THE INTERNATIONAL BUILDING CODE AND STANDARDS REFERENCED THEREIN, WITH CITY OF PUYALLUP, WA AMENDMENTS.

LOADS:

ROOFS:

ROOF LIVE LOAD = 20 PSF (NON-REDUCIBLE).
ROOF DEAD LOAD = 18 PSF.
GROUND SNOW LOAD, Pg = 25 PSF.

LATERAL:

WIND:
BASIC DESIGN WIND SPEED (3-SECOND GUST), V(ult) = 110 MPH.
RISK CATEGORY, II.
EXPOSURE C.

SEISMIC:

RISK CATEGORY, II.
SEISMIC IMPORTANCE FACTOR, I = 1.0.
MAPPED SHORT PERIOD SPECTRAL ACCELERATION, Ss = 1.26.
MAPPED ONE SECOND SPECTRAL ACCELERATION, S1 = 0.435.
SOIL SITE CLASS, D.
DESIGN SHORT PERIOD SPECTRAL ACCELERATION, Sds = 1.008.
SEISMIC DESIGN CATEGORY, D.

POST-INSTALLED ANCHORS:

GENERAL:

ALL POST-INSTALLED ANCHORS SHALL UTILIZE THE EXACT ANCHORAGE SYSTEM SPECIFIED IN THE STRUCTURAL DETAILS. WHERE ANCHORAGE "PER GSN" IS SPECIFIED, SEE BELOW. ANCHORAGE PRODUCTS MAY NOT BE SWAPPED BETWEEN MANUFACTURERS WITHOUT APPROVAL OF THE ENGINEER OF RECORD. ALL REQUESTS FOR EQUIVALENT ANCHORAGE PRODUCTS MUST BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO BEING INSTALLED IN THE FIELD.

UNLESS NOTED OTHERWISE POST INSTALLED ANCHORS SHALL NOT BE INSTALLED UNTIL CONCRETE OR MASONRY MATERIAL HAVE REACHED DESIGN STRENGTH AND HAVE BEEN FULLY CURED FOR A MINIMUM OF 21 DAYS.

MANUFACTURER'S INSTALLATION TRAINING AND CERTIFICATE ARE REQUIRED FOR ALL INSTALLERS OF POST-INSTALLED ANCHORS. ALL ANCHORS SHALL BE INSTALLED WITH STEEL WASHERS AT SHORT SLOTTED HOLES IN ACCORDANCE WITH THE MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS (MPII). ALL ANCHORS SHALL TIGHTENED/TORQUED AS REQUIRED PER MANUFACTURERS INSTRUCTIONS AND EVALUATION REPORTS.

POST-INSTALLED ANCHORS IN MASONRY:

ALL EXPANSION TYPE ANCHORAGE FOR MASONRY INSTALLATION ONLY SHALL BE PER HILTI 'KWIK BOLT-TZ2' EXPANSION ANCHOR PER ICC ESR-4561 OR APPROVED ICC EQUIVALENT. ALL EPOXY ADHESIVE TYPE ANCHORAGE FOR MASONRY INSTALLATION ONLY SHALL BE PER HILTI 'HIT-HY 270' ADHESIVE ANCHOR ICC ESR-4143 OR APPROVED ICC EQUIVALENT. ALL SCREW TYPE ANCHORAGE FOR MASONRY INSTALLATION ONLY SHALL BE PER HILTI 'KWIK HUS-EZ' SCREW ANCHOR PER ICC ESR-3056 OR APPROVED ICC EQUIVALENT.

STRUCTURAL STEEL:

GENERAL:

ALL STEEL CONSTRUCTION SHALL BE PER THE REFERENCED AISC STEEL CONSTRUCTION MANUAL. ALL MISCELLANEOUS STEEL, INCLUDING THREADED ROD STEEL, UNLESS NOTED OTHERWISE SHALL BE ASTM A36 (Fy = 36 KSI).

UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE ASTM A307. A325 BOLTS MAY BE SUBSTITUTED FOR A307 BOLTS AT THE CONTRACTOR'S OPTION, REVERSE SUBSTITUTION IS NOT PERMITTED. ALL BOLTS SHALL BE INSTALLED WITH STEEL WASHERS AT SHORT SLOTTED HOLES USING SNUG TIGHT INSTALLATION, UNLESS NOTED OTHERWISE.

QUICKFRAMES ADJUSTABLE STEEL ROOF FRAMES:
(ALTERNATE TO TYPICAL STEEL OPENING FRAMES)

UNLESS SPECIFICALLY EXCLUDED ON PLAN, CONTRACTOR MAY PROVIDE SEALED SHOP DRAWINGS AND CALCULATIONS FOR 16, 12 OR 10 GAGE (50 KSI) QUICKFRAMES ADJUSTABLE FRAMES AT THE MECHANICAL ROOFTOP UNITS AND/OR ROOF PENETRATIONS. (NOTE: THIS MUST BE SUBMITTED AS A DEFERRED SUBMITTAL PER REQUIREMENTS BELOW.)

THESE QUICKFRAMES, OR THE OPENING THEY SPAN, SHALL NOT BE PLACED SO AS TO INTERFERE WITH THE REQUIREMENTS OF OTHER STRUCTURAL ELEMENTS (I.E. DRAG STRUTS, BEAMS, PURLINS, SUBPURLINS, ANGLES, ETC.) WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

FOR ADDITIONAL INFORMATION AT OPENINGS IN STEEL ROOF FRAMING, SEE TYPICAL DETAILS.

QUICKFRAMES ADJUSTABLE FRAMES SHALL BE AS MANUFACTURED BY QUICKFRAMES USA, LLC, MESA, ARIZONA. IT SHALL BE INSTALLED PER ALL MANUFACTURER'S RECOMMENDATIONS.

WOOD:

GENERAL:

WOOD FRAMING MEMBERS SHALL NOT BE NOTCHED OR DRILLED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT. STRUCTURAL WOOD FRAMING MEMBERS SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% WHEN DELIVERED TO THE JOB SITE. ALL NAILING NOT NOTED SHALL BE PER TYPICAL DETAIL AND COMMON NAIL DIAMETER TABLE BELOW. ALL BOLTING SHALL BE PER STRUCTURAL STEEL SECTION. WOOD CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. OR OTHER MANUFACTURER WITH CURRENT AND EQUIVALENT ICC APPROVAL. WHERE "TYPE" OF CONNECTOR IS INDICATED ON THE DRAWINGS, THE CONNECTOR AND ATTACHMENT SHALL BE PER THE MAXIMUM MODEL NUMBER BASED ON THE SIZE OF THE MEMBERS CONNECTED.

NAIL TYPE	REQ'D DIA	REQ'D GA	LENGTH	NAIL TYPE	REQ'D DIA	REQ'D GA	LENGTH
6d	0.113"	11 1/2	2"	12d	0.148"	9	3 1/4"
8d	0.131"	10 1/4	2 1/2"	16d	0.162"	8	3 1/2"
10d	0.148"	9	3"	20d	0.192"	6	4"

SAWN LUMBER:

FRAMING LUMBER SHALL COMPLY WITH THE REFERENCED EDITION OF THE GRADING RULES OF THE WWPA OR THE WCLIB. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY AND SHALL HAVE MINIMUM PROPERTIES WHICH MEET OR EXCEED THE FOLLOWING WOOD TYPES:

BEAMS	WOOD TYPE
- WIDTH 4" OR MORE	D.F.L. #1

GLUED-LAMINATED BEAMS (GLULAM/GLB):

ALL STRUCTURAL GLUED-LAMINATED BEAMS SHALL MEET THE COMBINATION REQUIREMENTS FROM THE REFERENCED AITC-117 OR NATIONAL DESIGN SPECIFICATION.

BEAMS AT SINGLE SPAN CONDITIONS SHALL BE 24F-V4 DF. BEAMS CONTINUOUS OVER SUPPORTS (MULTI SPAN OR CANTILEVERED) SHALL BE 24F-V8 DF WITH THE FOLLOWING MINIMUM PROPERTIES:
- Fb = 2,400 PSI
- Fv = 265 PSI
- Fc (PERPENDICULAR) = 650 PSI
- E = 1,800,000 PSI

ALL BEAMS SHALL BE FABRICATED USING WATERPROOF GLUE. FABRICATION AND HANDLING PER REFERENCED AITC AND WCLA STANDARDS. SUPPLIER SHALL VERIFY WITH ARCHITECT THE GRADE FINISH OF ALL ARCHITECTURALLY EXPOSED FRAMING MEMBERS. BEAMS TO BEAR GRADE STAMP AND AITC STAMP AND CERTIFICATE. CAMBER AS SHOWN ON DRAWINGS. STANDARD CAMBER (STD) IS DEFINED AS RADIUS OF CURVATURE EQUAL TO 3,500 FEET MINIMUM.

ALL STRUCTURAL GLUED-LAMINATED BEAMS RATED FOR FIRE ENDURANCE SHALL MEET THE REQUIREMENTS OF CHAPTER 16 OF THE AF & PA NATIONAL DESIGN SPECIFICATION. MEMBERS RATED FOR 1-HOUR FIRE ENDURANCE SHALL HAVE THE OUTERMOST INTERIOR CORE LAMINATION SUBSTITUTED WITH AN ADDITIONAL TENSION LAMINATION ON THE TENSION SIDE FOR UNBALANCED (SIMPLE SPAN) BEAMS AND ON BOTH SIDES FOR BALANCED (CANTILEVER) BEAMS.

DEFERRED SUBMITTALS:

SHOP DRAWING SUBMITTALS REQUIRED BY THESE GENERAL STRUCTURAL NOTES WHICH CONTAIN DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER OTHER THAN THE ENGINEER OF RECORD, SHALL BE SUBMITTED DURING CONSTRUCTION TO THE CITY FIELD INSPECTOR FOR REVIEW. THE DOCUMENTS WILL FIRST BE REVIEWED BY THE ENGINEER OF RECORD AND DETERMINED TO BE IN GENERAL CONFORMANCE WITH THE BUILDING DESIGN. THESE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. THE FOLLOWING ITEMS SHALL BE SUBMITTED PER THIS SECTION:

QUICKFRAMES ADJUSTABLE ROOF FRAMES BELOW ROOF TOP MECHANICAL UNITS OR OPENINGS

SHOP DRAWINGS:

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS. CONTRACTOR SHALL PROVIDE A MINIMUM OF 2 HARD COPY SUBMITTAL SETS OF EACH ITEM TO CTS FOR REVIEW, UNLESS NOTED OTHERWISE IN ARCHITECTURAL SPECIFICATIONS. ELECTRONIC SUBMITTALS ARE ALSO ACCEPTABLE.

THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON CONTRACTOR'S REVIEW.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS.

MANUFACTURER OR FABRICATOR SHALL CLOUD ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, APPROVALS AND THE COORDINATION OF THE WORK WITH ALL RELATED TRADES AND SUPPLIERS. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY.

THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW.

THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT SHALL NOT BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ITEMS ARE CONSTRUCTED TO CONTRACT DOCUMENTS.

THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY.

REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR.

GENERAL NOTES:

THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. EXCEPT WHERE NOTED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS).

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE REFERENCED EDITION AND/OR ADDENDA. ANY ENGINEERING DESIGN, PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A REGISTERED ENGINEER RECOGNIZED BY THE BUILDING CODE JURISDICTION OF THIS PROJECT.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS. BUILDING DIMENSIONS AND ELEVATIONS, WHERE SHOWN, WERE PROVIDED BY THE ARCHITECT AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND COORDINATE ALL DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK. ANY DISCREPANCIES SHALL BE RESOLVED THROUGH THE ARCHITECT. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL ITEMS WITH THE APPROPRIATE TRADE DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE.

CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

OPTIONS AND SUBSTITUTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION OR SUBSTITUTION IS CHOSEN, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, APPROVALS AND THE COORDINATION OF THE WORK WITH ALL RELATED TRADES AND SUPPLIERS.

SPECIAL INSPECTION - STRUCTURAL ONLY:

SPECIAL INSPECTIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A STATE REGISTERED STRUCTURAL ENGINEER WHO IS FAMILIAR WITH THE STRUCTURAL DESIGN OF THIS PROJECT. THE SUPERVISING STRUCTURAL ENGINEER SHALL SEAL THE SPECIAL INSPECTION CERTIFICATE.

SPECIAL INSPECTION IS TO BE PROVIDED FOR THE ITEMS LISTED BELOW IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE BUILDING JURISDICTION. "SPECIAL STRUCTURAL INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE BUILDING JURISDICTION INSPECTIONS REQUIRED BY SECTION 110 OF THE INTERNATIONAL BUILDING CODE. SPECIAL INSPECTION IS REQUIRED PER CHAPTER 17 FOR THE FOLLOWING:

SPECIAL CASES:

1. EXPANSION, EPOXY, ADHESIVE, AND SCREW ANCHORS: DURING THE PLACEMENT OF ALL ANCHORS SHOWN ON STRUCTURAL DRAWINGS. ADDITIONAL INSPECTIONS REQUIRED FOR REPAIR DETAILS SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.
A. INSPECTION OF HOLE DIAMETER, HOLE DEPTH AND DRILL BIT CONFORMANCE.
B. INSPECTION OF HOLE CLEANING WITH WIRE BRUSH AND COMPRESSED AIR.
C. INSPECTION OF ANCHOR INSTALLATION USING SPECIFIED PRODUCT AND MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES.
D. INSPECTION OF EXPANSION ANCHORS SHALL INCLUDE THE VERIFICATION OF THE TIGHTENING TORQUE THAT IS SPECIFIED BY THE ANCHOR MANUFACTURER.

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:

A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATION.
B. THE SPECIAL INSPECTOR IS NOT AUTHORIZED TO APPROVE DEVIATIONS FROM THE DESIGN DRAWINGS OR SPECIFICATIONS, AND ALL DEVIATIONS MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO PROCEEDING WITH THE WORK. ALL REQUESTS FOR DEVIATIONS SHALL BE INITIATED BY THE CONTRACTOR VIA WRITTEN REQUEST FOR INFORMATION (RFI).
C. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE ENGINEER OR ARCHITECT OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
D. THE CONTRACTOR SHALL PROVIDE THE SPECIAL INSPECTOR ACCESS TO ALL ITEMS REQUIRING SPECIAL INSPECTION. ACCESS SHALL BE PROVIDED BY IN-PLACE LADDERS, SCAFFOLDS, LIFTS AND/OR OTHER EQUIPMENT OPERATED BY THE CONTRACTOR'S PERSONNEL AS REQUIRED FOR SAFE OBSERVATION. THE SPECIAL INSPECTOR IS NOT RESPONSIBLE OR AUTHORIZED TO OPERATE CONTRACTOR'S EQUIPMENT.
E. UPON COMPLETION OF THE ASSIGNED WORK THE ENGINEER OR ARCHITECT IN CHARGE OF SPECIAL INSPECTIONS SHALL COMPLETE AND SIGN THE APPROPRIATE FORMS CERTIFYING THAT TO THE BEST OF THEIR KNOWLEDGE THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.

City of Puyallup
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PROJECT NUMBER	24-1374	PROJECT MANAGER	TRM
PROJECT ENGINEER	JKC	PROJECT DRAFTER	PET

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SOUTH MERIDIAN & 43RD AVE SE
4227 S MERIDIAN SUITE E
PUYALLUP, WA 98373

DESIGN TYPE: E1Y
PROJECT TYPE: CORP NEW

8022

PROTOTYPE RELEASE: Q3 2024

PRCTI20241902

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20551 N. PIMA ROAD
SUITE 200
SCOTTSDALE, AZ 85255
Design@FuzionAD.com
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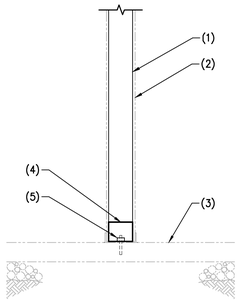
TROY TURLEY — STATE OF WASHINGTON — 23010603 — REGISTERED PROFESSIONAL ENGINEER
11-19-24

##	DESCRIPTION	DATE

DATE: 11.18.2024
DRAWN BY: PET

G.S.N.

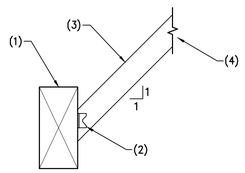
S101



NOTES:

1. WOOD POST PER DETAIL 15
2. EXISTING STEEL STUD WALL.
3. EXISTING CONCRETE SLAB. CONTRACTOR TO VERIFY SLAB IS AT LEAST 4" THICK. NOTIFY ENGINEER IF OTHERWISE
4. SIMPSON ABU44Z POST BASE
5. 1/2" DIA TITEN HD SCREW ANCHOR WITH 2" EMBEDMENT.

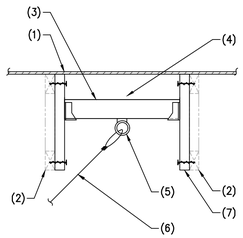
16 WOOD BEAM AT STEEL STUD WALL — 23-0838 — NO SCALE



NOTES:

1. WOOD BEAM PER PLAN
2. SIMPSON A35 CLIP FILL ALL HOLES WITH 0.131 X 1 1/2" SCREWS.
3. 2x4 BRACING AT 48" O.C. MAX
4. SEE DETAIL 13 FOR TOP CONNECTION

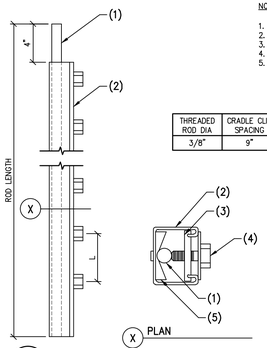
12 WOOD BEAM BRACING BOTTOM CONNECTION — 24-1265 — NO SCALE



NOTES:

1. EXISTING PLYWOOD SHEATHING.
2. EXISTING WOOD TRUSSES (ASSUMED).
3. 4x4 WOOD BLOCKING WITH SIMPSON LUS TYPE HANGER EACH END.
4. 1/4"x2"x2" PLATE WASHER AND NUTS TOP AND BOTTOM
5. EYEBOLT.
6. SPLAY WIRE WITH 3 TURNS.
7. 2X6 BLOCK WITH 3 #8 SCREWS TOP AND BOTTOM.

08 SPLAY WIRE TOP CONNECTION — 24-1265 — NO SCALE



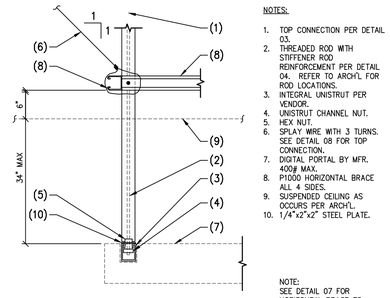
THREADED ROD DIA	CRADLE CLIP SPACING
3/8"	9"

NOTES:

1. THREADED HANGER ROD.
2. UNISTRUT P1000T STIFFENER.
3. P3008 NUT.
4. 3/8"x1" HHCS.
5. P2485 CRADLE CLIP.

NOTE:
ALL UNISTRUT MATERIALS AND CONNECTIONS SHALL BE INSTALLED WITH STRICT CONFORMANCE TO MFR. RECOMMENDATIONS.

04 HANGER ROD REINFORCEMENT — 24-0257 — NO SCALE

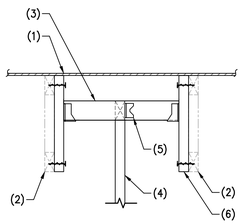


NOTES:

1. TOP CONNECTION PER DETAIL 03.
2. THREADED ROD WITH STIFFENER ROD REINFORCEMENT PER DETAIL 04. REFER TO ARCH'L FOR ROD LOCATIONS.
3. INTEGRAL UNISTRUT PER VENDOR.
4. UNISTRUT CHANNEL NUT.
5. HEX NUT.
6. SPLAY WIRE WITH 3 TURNS. SEE DETAIL 08 FOR TOP CONNECTION.
7. DIGITAL PORTAL BY MFR. 400# MAX.
8. P1000 HORIZONTAL BRACE ALL 4 SIDES.
9. SUSPENDED CEILING AS OCCURS PER ARCH'L.
10. 1/4"x2"x2" STEEL PLATE.

NOTE:
SEE DETAIL 07 FOR HORIZONTAL BRACE TO STIFFENER CONNECTION

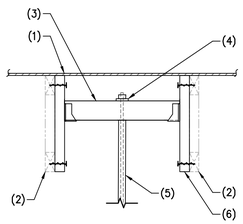
01 DIGITAL PORTAL THREADED ROD ATTACHMENT — 24-0257 — NO SCALE



NOTES:

1. EXISTING PLYWOOD SHEATHING.
2. EXISTING WOOD TRUSSES.
3. 4x4 WOOD BLOCKING WITH SIMPSON LUS TYPE HANGER EACH END.
4. WOOD BRACING PER DETAIL 12.
5. SIMPSON A35 CLIP. FILL ALL HOLES WITH 0.131 X 1 1/ 1/2" SCREWS.
6. 2X6 BLOCK WITH 3 #8 SCREWS TOP AND BOTTOM.

13 WOOD BEAM BRACING TOP CONNECTION — 24-1265 — NO SCALE



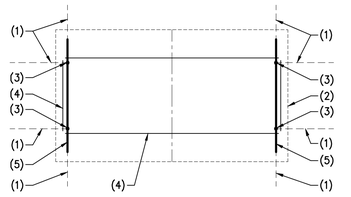
NOTES:

1. EXISTING PLYWOOD SHEATHING.
2. EXISTING WOOD TRUSSES.
3. 4x4 WOOD BLOCKING WITH SIMPSON LUS TYPE HANGER EACH END.
4. 1/4"x2"x2" PLATE WASHER AND NUTS TOP AND BOTTOM.
5. THREADED ROD WITH STIFFENER ROD REINFORCEMENT PER DETAIL 04.
6. 2X6 BLOCK WITH 3 #8 SCREWS TOP AND BOTTOM.

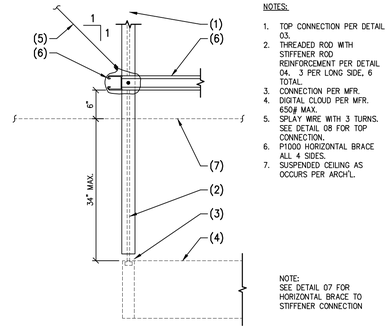
09 SPLAY WIRE TOP CONNECTION — 24-1265 — NO SCALE

NOTES:

1. #8 SPLAY WIRE EACH SIDE, EACH CORNER – 8 TOTAL PER DETAIL 01.
2. OUTLINE OF DIGITAL PORTAL BY OTHERS.
3. 3/8" DIA. THREADED ROD WITH ROD STIFFENER REINFORCEMENT – 4 TOTAL. REFER TO ARCH'L FOR ROD LOCATIONS. TOP CONNECTION SHALL BE PER DETAIL 03.
4. HORIZONTAL UNISTRUT BRACES ALL 4 SIDES WITH CONNECTIONS PER DETAIL 01 AND 07.
5. INTEGRAL UNISTRUT PER VENDOR.



05 PLAN – SUSPENDED DIGITAL PORTAL — 24-0257 — NO SCALE

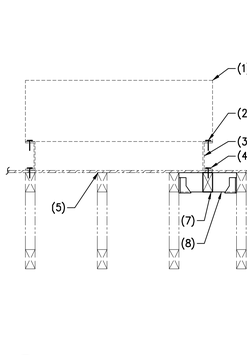


NOTES:

1. TOP CONNECTION PER DETAIL 03.
2. THREADED ROD WITH STIFFENER ROD REINFORCEMENT PER DETAIL 04. 3 PER LONG SIDE, 6 TOTAL.
3. CONNECTION PER MFR.
4. DIGITAL CLOUD PER MFR. 650# MAX.
5. SPLAY WIRE WITH 3 TURNS. SEE DETAIL 08 FOR TOP CONNECTION.
6. P1000 HORIZONTAL BRACE ALL 4 SIDES.
7. SUSPENDED CEILING AS OCCURS PER ARCH'L.

NOTE:
SEE DETAIL 07 FOR HORIZONTAL BRACE TO STIFFENER CONNECTION

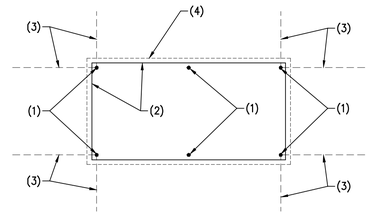
02 WELCOME CLOUD THREADED ROD ATTACHMENT — 24-0257 — NO SCALE



NOTES:

1. EXISTING MASONRY WALL
2. 3'-0" LONG 4x12 WOOD LEDGER
3. WOOD BEAM
4. SIMPSON HU TYPE HANGER
5. 3/4" DIA THREADED RODS WITH EPOXY PER CSN
6. CELLS WITH THREADED RODS TO BE GROUTED WITH 2,000 PSI GROUT
7. PLATE WASHER.

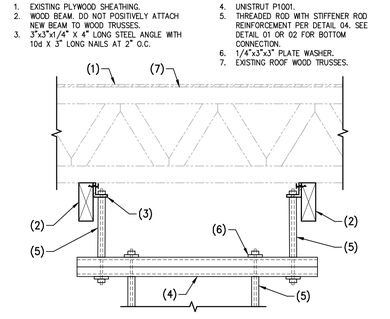
10 WOOD BEAM AT MASONRY WALL — 24-1265 — NO SCALE



NOTES:

1. 3/8" DIA. THREADED ROD WITH STIFFENER REINFORCEMENT – 3 PER LONG SIDE, 6 TOTAL. REFER TO ARCH'L FOR ROD LOCATIONS.
2. HORIZONTAL UNISTRUT BRACES ALL 4 SIDES WITH CONNECTION PER DETAIL 07.
3. #8 SPLAY WIRE EACH SIDE, EACH CORNER – 8 TOTAL PER DETAIL 02.
4. OUTLINE OF WELCOME CLOUD BY OTHERS.

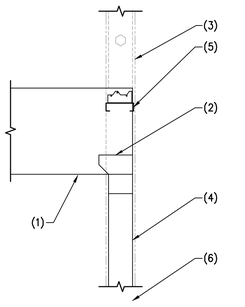
06 PLAN – SUSPENDED WELCOME CLOUD — 24-0257 — NO SCALE



NOTES:

1. EXISTING PLYWOOD SHEATHING.
2. WOOD BEAM. DO NOT POSITIVELY ATTACH NEW BEAM TO WOOD TRUSSES.
3. 3"x3"x1/4" X 4" LONG STEEL ANGLE WITH 10d X 3" LONG NAILS AT 2" O.C.
4. UNISTRUT P1001.
5. THREADED ROD WITH STIFFENER ROD REINFORCEMENT PER DETAIL 04. SEE DETAIL 01 OR 02 FOR BOTTOM CONNECTION.
6. 1/4"x3"x3" PLATE WASHER.
7. EXISTING ROOF WOOD TRUSSES.

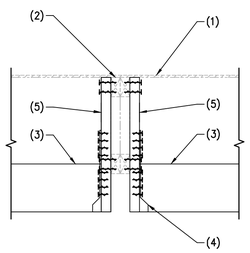
03 MECHANICAL UNIT SUPPORT AND THREADED ROD TOP CONNECTION — 24-1265 — NO SCALE



NOTES:

1. WOOD BEAM PER PLAN
2. SIMPSON ACH4Z POST CAP. FILL ALL HOLES WITH –.162 x 2 1/2" SCREWS.
3. EXISTING STEEL STUD WALL.
4. 4x4 WOOD POST.
5. 6005125–33 STUD BLOCKING EACH SIDE OF WOOD BEAM. USE SIMPSON L50 CLIPS TO ATTACH BLOCKING TO STUDS AND BEAM.
6. SEE DETAIL 16 FOR POST BOTTOM CONNECTION

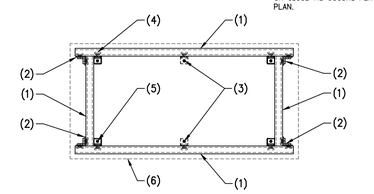
14 MECH'L EQUIPMENT TO ROOF FRAMING — 24-0800 — NO SCALE



NOTES:

1. EXISTING PLYWOOD SHEATHING
2. EXISTING DOUBLE WOOD TRUSS
3. WOOD BEAM PER PLAN
4. SIMPSON THGQ3.62–SDS HANGER. FILL ALL HOLES WITH 1/4" x 3" SDS SCREWS
5. 2x10 FLAT WITH (4) 10d x 3" LONG NAILS AT TOP AND BOTTOM CHORD

11 WOOD BEAM AT DOUBLE WOOD TRUSS — 24-1265 — NO SCALE



NOTES:

1. HORIZONTAL UNISTRUT BRACE.
2. P1026 ANGLE WITH P1006 CHANNEL SPRING NUT AND BOLT EACH BRACE.
3. ROD AT MIDDLE AS OCCURS AT DETAIL 06.
4. P1006 CHANNEL SPRING NUT AND BOLT – TYP.
5. THREADED ROD AND STIFFENER REINFORCEMENT – TYP.
6. SUSPENDED DIGITAL PORTAL OR CLOUD AS OCCURS PER PLAN.

07 PLAN – HORIZONTAL BRACE AT STIFFENER CONNECTION — 24-0257 — NO SCALE

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TROY TURLEY — STRUCTURAL ENGINEER — 22035 — REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON — 11-19-24

##	DESCRIPTION	DATE

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning | Engineering | Public Works | Fire | Traffic

DATE: 11.18.2024
DRAWN BY: PET

DETAILS

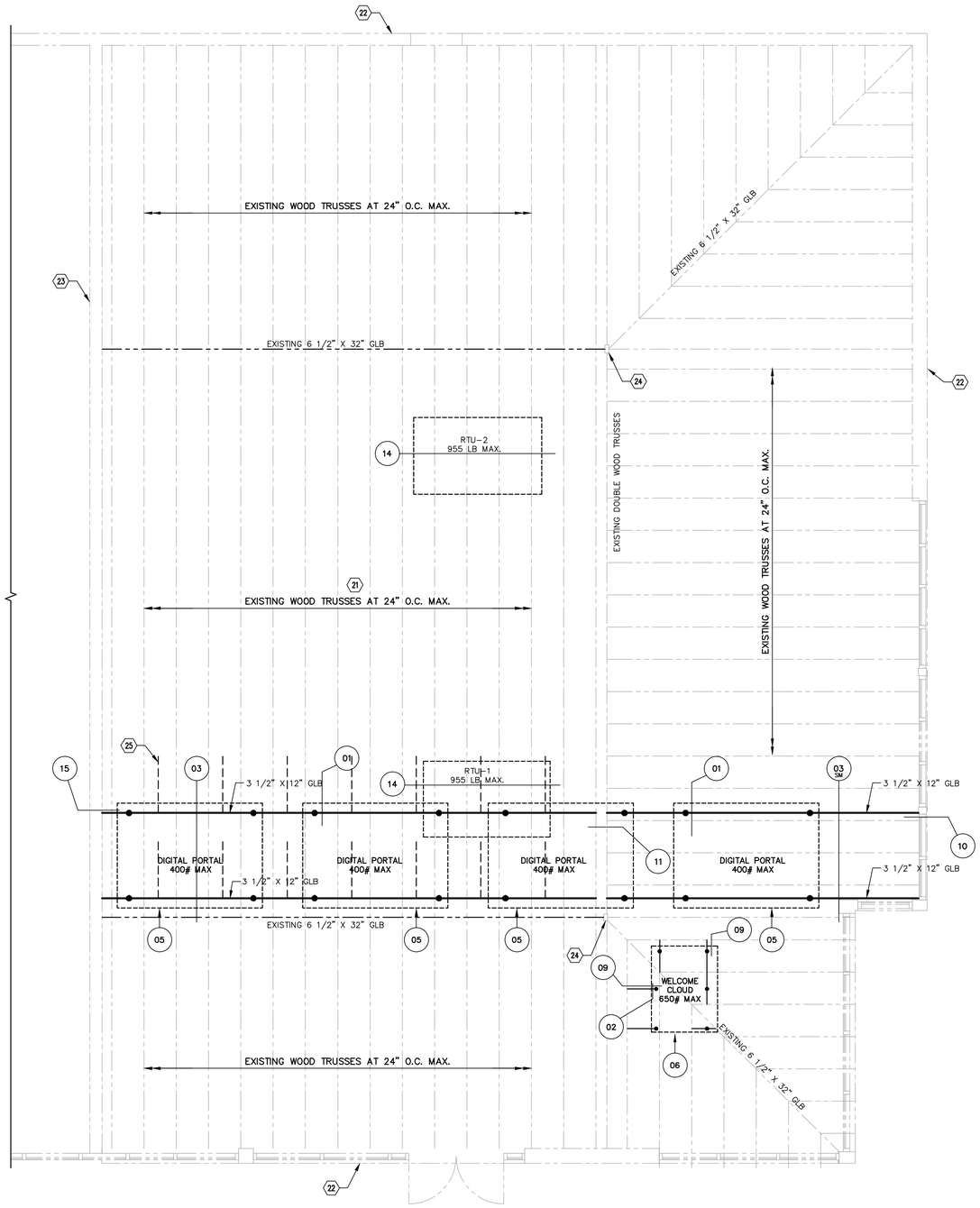
S102

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PROJECT ENGINEER	JKC	PROJECT DRAFTER	PET

CARUSO TURLEY SCOTT structural engineers
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(480) 774-1700
www.ctsaz.com



PARTIAL ROOF FRAMING PLAN

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

ROOF FRAMING NOTES – TYP U.N.O.:

1. **VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS. BUILDING DIMENSIONS AND ELEVATIONS, WHERE SHOWN, WERE PROVIDED BY THE ARCHITECT AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND COORDINATE ALL DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK. ANY DISCREPANCIES SHALL BE RESOLVED THROUGH THE ARCHITECT.**
2. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITIONS. ALL OPENINGS MAY NOT BE SHOWN ON THIS PLAN. FOR EXACT SIZE, NUMBER AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, SPRINKLER AND THEIR RELATED DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.
3. VERIFY EXACT SIZE, WEIGHT AND LOCATION OF EQUIPMENT AND SUPPORTS INDICATED ON PLAN WITH ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, SPRINKLER AND THEIR RELATED DRAWINGS. EQUIPMENT INDICATED ARE ONLY THOSE THAT EXCEED LOADS SPECIFIED IN THE G.S.N. FOR SUPPORT OF EQUIPMENT, SEE TYPICAL DETAILS AND OTHER TRADES.
4. THE EXISTING CONDITIONS DEPICTED ON THESE DRAWINGS ARE BASED ON APEX TECH SOLUTIONS SURVEY DATA DATED 10/15/2024 AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER IMMEDIATELY.

FRAMING KEYNOTES

940–11

21 CONTRACTOR TO VERIFY TRUSSES ARE 19'–2" LONG (MAX). NOTIFY ENGINEER IF OTHERWISE.

22 EXISTING EXTERIOR WALL.

23 EXISTING INTERIOR DEMISING WALL.

24 EXISTING STEEL COLUMN.

25 BRACE WOOD BEAM PER DETAIL 12.

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Engineering	Public Works
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www.FuzionAD.com



##	DESCRIPTION	DATE

DATE: 11.18.2024
DRAWN BY: PET

PARTIAL ROOF FRAMING PLAN

S201