CENTRAL PIERCE COUNTY FIRE + RESCUE TENANANT IMPROVEMENT

AGENCY NOTES

CONSTRUCTION TYPE:	TYPE II-B (SPRINKLERED)
OCCUPANCY:	B (OFFICE), A3
SEISMIC DESIGN CAT.:	D-1
SEISMIC SITE CLASS:	D
OCCUPANCY CAT:	II
ZONING:	MP - BUSINESS PARK (PER CITY ZONING MAP)
USE:	B OCCUPANCY; TENANT FINISH OUT OF SHELL BUILDING
EXISTING SHELL BUILDING PERMIT:	B-19-1093
APPLICABLE CODES:	2018 IBC W/ WA STATE AMENDMENTS 2018 INTERNATIONAL FIRE CODE 2018 INTERNATIONAL EXISTING BUILDING CODE 2018 UNIFORM PLUMBING CODE 2018 WASHINGTON STATE ENERGY CODE WA STATE VENTILATION AND INDOOR AIR QUALITY CODE 2016 NFPA STANDARD 72 2016 NFPA STANDARD 13, 13-D, AND 13-R
NO. OF STORIES:	4 ALLOWED; 2 PROVIDED
BUILDING AREA:	FIRST FLOOR: 90,721 GSF (EXISTING/ NOT ALTERED) SECOND FLOOR: 91,774 GSF (EXISTING/ NOT ALTERED) TOTAL: 182,495 GSF (EXISTING/ NOT ALTERED)

PROJECT DESCRIPTION

TENANT IMPROVEMENT AND FINISH OUT OF THE NORTH SIDE OF LEVEL 1. IMPROVEMENTS INCLUDE OFFICES, MEETING ROOMS, CARDIO AREA AND BREAK ROOMS. THE INTERIOR ALTERATIONS DO NOT INCREASE THE BUILDINGS AREA, NOR DO THEY ALTER THE BUILDING EGRESS AND/OR CIRCULATION OUTSIDE THE RENOVATED SPACE.

LEGAL DESCRIPTION

PIERCE COUNTY ASSESSOR'S PARCEL #. 0419034038
A PORTION OF REVISED PARCEL 1, CITY OF PUYALLUP BOUNDARY LINE REVISION NO. P-12-0044, RECORDED UNDER RECORDING NO. 201211145004, IN PIERCE COUNTY, WASHINGTON;
EXPECT THAT PORTION THEREOF DEDICATED TO THE CITY OF PUYALLUP BY DEED RECORDED UNDER RECORDING NO. 201212200909, LYING IN THE SOUTHEAST QUARTER OF SECTION 3, TOWNSHIP 19 NORTH, RANGE 4 EAST, W.M., PIERCE COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:
COMMENCING AT THE STONE MONUMENT MARKING THE SOUTH QUARTER CORNER OF SAID SECTION 3, WHICH MONUMENT IS NORTH 86°31'42" WEST, 2621.06 FEET FROM THE SOUTHEAST CORNER OF SAID SECTION 3;
THENCE ALONG SAID SOUTH SECTION LINE, SOUTH 86°31'42" EAST, A DISTANCE OF 1,310.53 FEET TO THE SOUTH SIXTEENTH CORNER OF SAID SECTION 3;
THENCE ALONG THE NORTH-SOUTH CENTER LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 3, NORTH 00°13'45" EAST, A DISTANCE OF 53.05 FEET TO A POINT ON THE NORTHERLY RIGHT-OF-WAY OF 39TH AVENUE SOUTHEAST;
THENCE CONTINUING ALONG SAID NORTH-SOUTH CENTER LINE, NORTH 00°13'45" EAST, A DISTANCE OF 332.49 FEET TO THE NORTH LINE OF THAT PARCEL DESCRIBED IN THE INSTRUMENT RECORDED UNDER AUDITOR'S NO. 8906300604;
THENCE ALONG SAID NORTH LINE, SOUTH 86°31'42" EAST, A DISTANCE OF 295.47 FEET TO THE EAST LINE OF LARGE LOT SEGREGATION UNDER AUDITOR'S NO. 200704305021;
THENCE NORTH 00°13'45" EAST, ALONG SAID EAST LINE A DISTANCE OF 1,625.81 FEET;
THENCE SOUTH 89°59'00" WEST, A DISTANCE OF 579.05 FEET TO THE POINT OF BEGINNING;
THENCE SOUTH 00°00'36" WEST, A DISTANCE OF 815.64 FEET;
THENCE SOUTH 89°59'00" WEST, A DISTANCE OF 547.26 FEET;
THENCE NORTH 00°00'36" EAST, A DISTANCE OF 489.96 FEET;
THENCE NORTH 89°59'00" EAST, A DISTANCE OF 80.33 FEET;
THENCE NORTH 00°15'12" WEST, A DISTANCE OF 225.75 FEET;
THENCE NORTH 37°10'59" EAST, A DISTANCE OF 186.48 FEET;
THENCE SOUTH 52°49'01" EAST, A DISTANCE OF 80.41 FEET TO A POINT WHICH BEARS SOUTH 89°59'00" WEST FROM THE POINT OF BEGINNING;
THENCE NORTH 89°59'00" EAST, A DISTANCE OF 291.22 FEET TO THE POINT OF BEGINNING.
(ALSO KNOWN AS LOT 3, CITY OF PUYALLUP BOUNDARY LINE REVISION NO. P-18-0145, RECORDED UNDER AUDITOR'S FILE NO. 201905225002, RECORDS OF PIERCE COUNTY, WASHINGTON)

VICINITY MAP

Reviewed for compliance by David L
Comments reviewed by Janelle

City of Puyallup Building APPROVED
See permit for additional requirements.
JMontgomery
03/10/2023
3:25:58 PM

Approval of submitted plans is not an approval of omissions or oversights by this office or noncompliance 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.

PRCTI20230098

1/30/2023 4:05:25 PM

PROJECT DIRECTORY

OWNER:

BENAROYA COMPANY I CENTERIS DATA CENTERS
9675 SE 36TH STREET, SUITE 115
MERCER ISLAND, WA 98040
CONTACT: DAVE VRANIZAN
EMAIL: davev@benaroya.com
TEL: (425) 440-6711
CELL: (206) 619-5341

INTERIOR DESIGNER/PROJECT MANAGER:

MARSHALL DESIGN + MANAGEMENT
12400 SE 38TH #50766
BELLEVUE, WA 98105
CONTACT: MIA MASHALL
EMAIL: Mia@mashalldm.com
TEL: (206) 890-1570

ARCHITECT:

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SEATTLE, WA 98104
CONTACT: RYAN WHITE
EMAIL: rwhite@wja-dc.com
TEL: (206) 946-9746

STRUCTURAL:

QUANTUM CONSULTING ENGINEERS
1511 THIRD AVENUE, SUITE 323
SEATTLE, WA 98103
CONTACT: SCOTT TINKER
EMAIL: scotttinker@quantumce.com
TEL: (206) 957-3900
DIRECT: (206) 957-3916

MECHANICAL:

MACDONALD-MILLER FACILITY SOLUTIONS, INC
2801 PACIFIC AVE,
TACOMA, WA 98402
CONTACT: STEVE FLINK
EMAIL: steve.flink@macmiller.com
TEL: (253) 680-3172
CELL: (206) 396-8657

ELECTRICAL:

EVERGREEN ELECTRIC
3849 1ST AVENUE SOUTH
SEATTLE, WA 98134
CONTACT: MIKE MILLS
TEL: (206) 423-2421

FIRE ALARM:

ADT COMMERCIAL
21312 30TH DRIVE SE, SUITE 103
BOTHELL, WA 98021
CONTACT: KENT FOBIAN
EMAIL: kentfobian@adt.com
TEL: (425) 287-7729

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 LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITEE ON SITE FOR INSPECTION

ENVELOPE SUMMARY (EXISTING TO REMAIN)

BUILDING ENVELOPE WILL NOT BE ALTERED AS PART OF THIS PROJECT EXCEPT FOR ADDING A LAYER OF 5/8" GWB TO COVER ANY EXPOSED INSULATION AT EXTERIOR WALLS.

BUILDING ENVELOPE REQUIRMENTS AT TIME OF WORK:
2015 WASHINGTON STATE ENERGY CODE

CLIMATE ZONE 4C, PIERCE COUNTY, WA	**MINIMUM INSULATION R-VALUES**
ROOFS - INSULATION ENTIRELY ABOVE ROOF DECK	R-30
ROOFS - ATTIC & OTHER; INSULATION BELOW DECK & ATTIC VENTING	N/A
WALLS - ABOVE GRADE	R-13 + R-10 CI
WALLS - BELOW GRADE	N/A
FLOORS - OVER UNCONDITIONED SPACE	N/A
SLAB-ONGRADE-FLOORS - UNHEATED	R-10 FOR 24" BELOW
SLAB-ON-GRADE-FLOORS - HEATED	N/A
OPAQUE DOORS - SWINGING (INSULATED HM)	U-0.37
VERTICAL FENESTRATION -30% MAX. OF ABOVE GRADE WALL	ASSEMBLY MAX. U-FACTORS
METAL FRAMING ENTRANCE DOOR	U-0.60
METAL FRAMING - FIXED (INCLUDES CURTAIN WALL & STOREFRONT)	U-0.38
NON-METAL FRAMING - ALL	N/A
	ASSEMBLY MAX. SHGC
VERTICAL FENESTRATION	0.40

CODE COMPLIANCE

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (TABLE 601) - TYPE II-B

STRUCTURAL FRAME	NON RATED
BEARING WALLS EXT.	NON RATED
BEARING WALLS INT.	NON RATED
NON-BEARING WALLS & PARTITIONS INTERIOR	* NON RATED
FLOOR CONSTRUCTION	NON RATED
ROOF CONSTRUCTION	NON RATED

FIRE RESISTANCE RATING FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (TABLE 602) - ALL EXISTING

FIRE SEPARATION DISTANCE < 5 FT 1 HOUR
FIRE SEPARATION DISTANCE 5 TO < 10 FT 1 HOUR
FIRE SEPARATION DISTANCE 10 TO < 30 FT NON RATED

*NOTE:THE EXISTING BUILDING AREA LOCATED ON GRIDS 1-6 WERE FORMALLY DESIGNATED AS AN "A" (ASSEMBLY) OCCUPANCY WITH AN ASSOCIATED BUILDING AREA SEPARATION WALL. A MINIMAL PORTION OF THE AREA SEPARATION WALL WILL BE DEMOLISHED UNDER THIS WORK. THE NEW WALLS INSTALLED IN THOSE DEMOLISHED AREAS WILL CARRY A 1-HR RATING. THE PROPOSED BUILDING OCCUPANCY THROUGHOUT (BOTH FLOORS) WILL BE, AND IS, "B" (OFFICE).

SEE ADDITIONAL INFORMATION ON SHEET G-003

REQUIRED PLUMBING FIXTURES:

376 OCCUPANTS / 2 = 188 MEN, 188 WOMEN

WATER CLOSETS REQUIRED: 4 MEN, 4 WOMEN
WATER CLOSETS PROVIDED: 3 MEN, 6 WOMEN, 4 UNISEX (13 TOTAL)
URINALS PROVIDED: 3

LAVATORIES REQUIRED: 4 MEN, 4 WOMEN
LAVATORIES PROVIDED: 2 MEN, 2 WOMEN, 4 UNISEX (8 TOTAL)

DRINKING FOUNTAINS REQUIRED: 4
DRINKING FOUNTAINS PROVIDED: *4

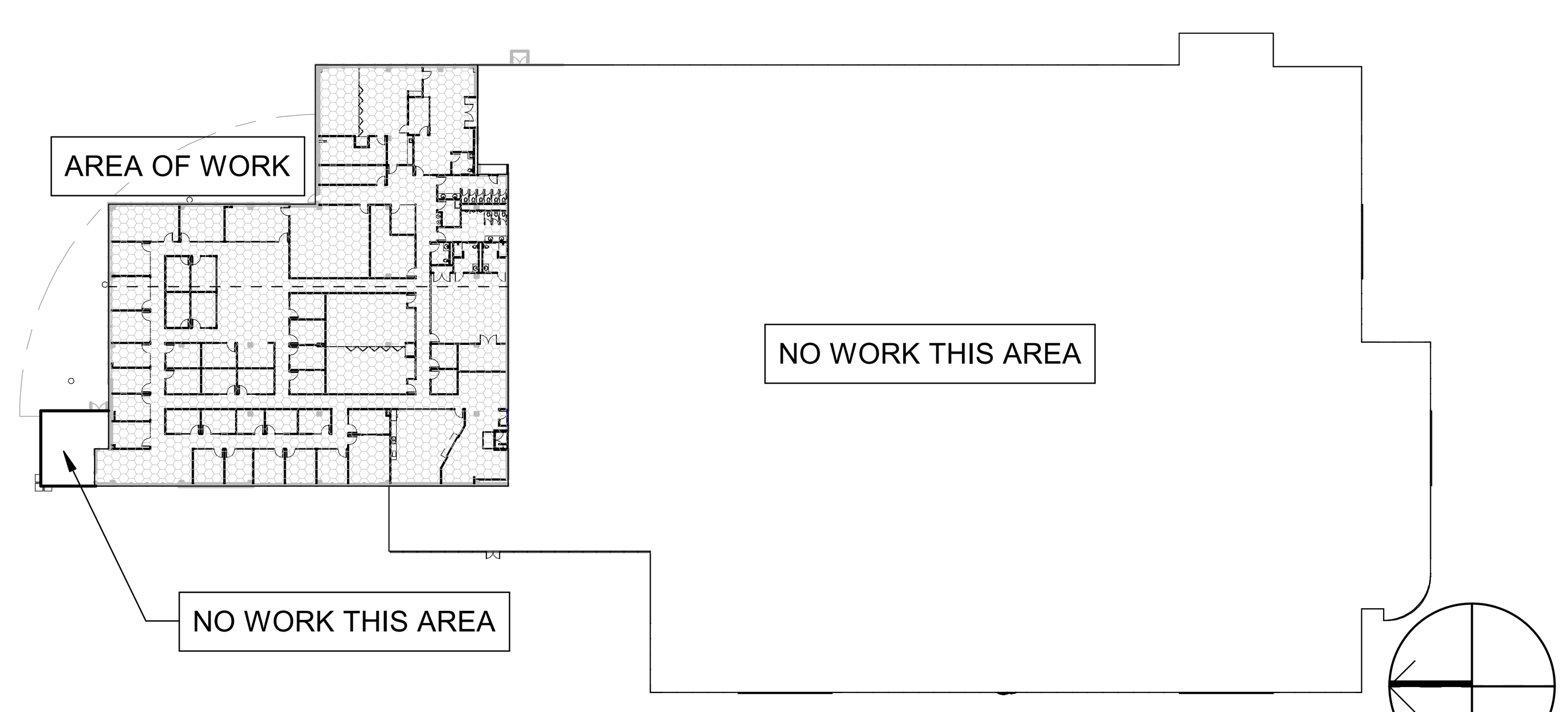
*NOTE: TWO DRINKING FOUNTAINS WILL BE PROVIDED AS PART OF THIS PROJECT. THERE ARE TWO EXISTING DRINKING FOUNTAINS IN THE BUILDING LOBBY. PER IBC SECTION 2902.5 DRINKING FOUNTAINS, "*DRINKING FOUNTAINS SHALL NOT BE REQUIRED TO BE LOCATED IN INDIVIDUAL TENANT SPACES PROVIDED THAT PUBLIC DRINKING FOUNTIANS ARE LOCATED WITHIN A DISTANCE OF TRAVEL OF 500 FEET OF THE MOST REMOTE LOCATION IN THE TENANT SPACE AND NOT MORE THAN ONE STORY ABOVE OR BELOW THE TENANT SPACE.*" THE ADDITIONAL 2 DRINKING FOUNTAINS IN THE BUILDING LOBBY ARE LOCATED UNDER 350 FEET AWAY.

ALLOWABLE BUILDING AREAS (EXISTING TO REMAIN AND WILL NOT BE ALTERED):

CONSTRUCTION TYPE	IIB	
ALLOWABLE NUMBER OF STORIES	4	
MAXIMUM FLOOR AREA (MEASURED)	90,738	
IBC 2012 REFERENCE	ALLOWABLE AREA	CALCULATED AREA
TABLE 503	23,000	
SECTION 506.3	46,000	23,000 x 200%
EQUATION 5-2	22,151	23,000 x 96.31%
TOTAL ALLOWABLE AREA PER FLOOR	91,151	(23,000 + 46,000 + 22,151)
EQUATION 5-2 VARIABLE	VALUE	CALCULATED AREA
F	1101.646 FEET	MEASUREMENT
P	1505.92 FEET	MEASUREMENT
W	*60	EQUATION 5-3 INCLUDING EXCEPTION
I_F (FRONTAGE INCREASE % VALUE)	0.960387	[(1101.646/1505.92) - 0.25]x[60/2]

*ALL OF VALUE F IS OPEN FRONTAGE OF 60' OR GREATER WITH ACCESS FROM A FIRE LANE
*ALLOWABLE AREA CALCULATIONS BASED ON 2012 IBC, CHAPTER 5

KEY PLAN:



SHEET INDEX

City of Puyallup
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Building	Planning
Engineering	Public Works
Fire	Traffic

DESIGNER

MARSHALL DESIGN + MANAGEMENT
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BELLEVUE, WA 98105

CLIENT AND PROJECT LOCATION

BENAROYA
SOUTH HILL BUSINESS AND TECHNOLOGY CENTER
1015 39TH AVE SE
PUYALLUP, WA 98374

PROJECT

CENTRAL PIERCE FIRE AND RESCUE
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design collaborative

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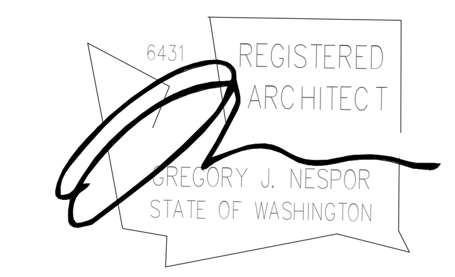
STAMP



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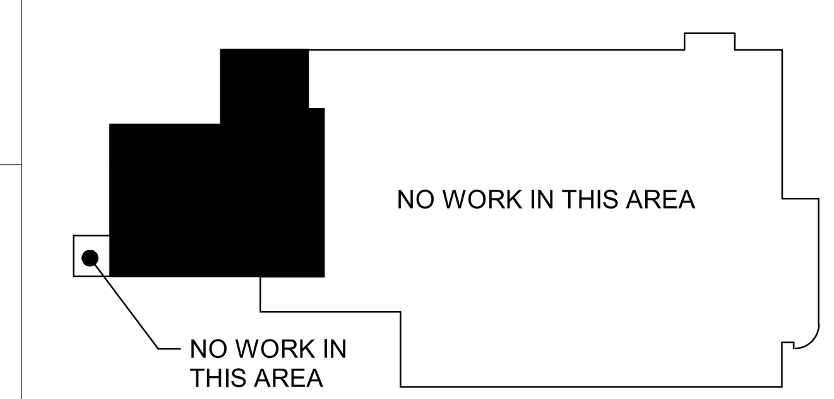
KEY PLAN



SHEET TITLE

COVER SHEET

SHEET NUMBER

G-001

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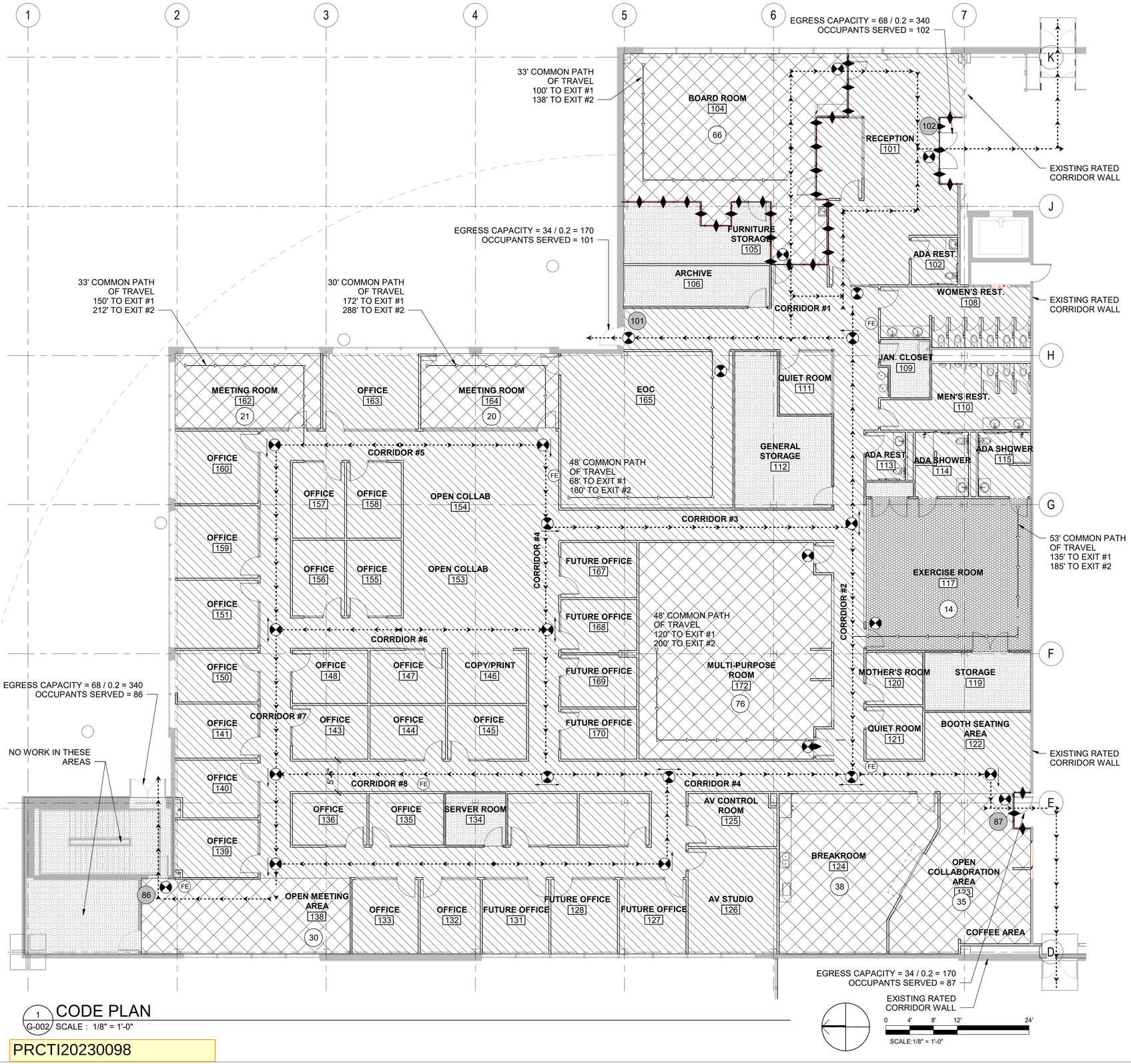

1 G-002 CODE PLAN
SCALE : 1/8" = 1'-0"

PRCTI20230098

CODE PLAN GENERAL NOTES

1. OCCUPANT LOADS CALCULATED PER TABLE 1004.5 OF THE 2018 IBC.

EGRESS TAG LEGEND

- 120 — OCCUPANT LOAD
- 240 — COLLECTIVE OCCUPANT LOAD AT EXIT
- EGRESS PATH OF TRAVEL
- TRAVEL DISTANCE
- FE — FIRE EXTINGUISHER
- EXIT SIGN
- 1 HR FIRE BARRIER

OCCUPANT LOAD LEGEND

- BUSINESS OLF: 150 GSF/PER PERSON
- ASSEMBLY (ACCESSORY USE) OLF: 15 NSF/PER PERSON
- EXERCISE ROOM OLF: 50 GSF/PER PERSON
- STORAGE OLF: 300 GSF/PER PERSON

OCCUPANCY LOAD

OCCUPANT LOAD	AREA (SF)	OCCUPANT LOAD
ASSEMBLY (UNCONCENTRATED TABLES AND CHAIRS)	2,094	283
BUSINESS	13,975	89
STORAGE	1,279	5
TOTAL	17,348	376

EXITING

EXITING	REQUIRED	PROVIDED
NUMBER OF EXITS: GROUP B PER TABLES 1006.2.1 AND 1006.3.2	MAX 500 OCC LOAD = 2 EXITS	4
COMMON PATH OF EGRESS: GROUP B	100' MAX W/ SPRINKLERS	53'
EXIT ACCESS TRAVEL DISTANCE PER TABLE 1017.2: GROUP B	300' MAX W/ SPRINKLERS	138' 185' 212' 288'

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REGISTERED ARCHITECT
STATE OF WASHINGTON

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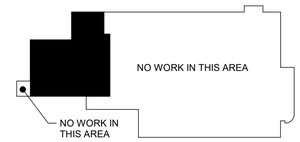

SHEET TITLE

LIFE SAFETY EGRESS PLAN

SHEET NUMBER

G-002

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IBC CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION

302.1 CLASSIFICATION, GENERAL
THE PROPOSED BUILDING IS CLASSIFIED IN OCCUPANCY GROUPS A-3 (ASSEMBLY) AND B (BUSINESS) AND COMPLIES WITH IBC SECTION 508.4 FOR SEPARATED OCCUPANCIES.

303.1.2 SMALL ASSEMBLY SPACES
THE BUILDING COMPLIES WITH NOT HAVING TO CLASSIFY CERTAIN ROOMS AS ASSEMBLY OCCUPANCIES. THOSE ROOMS WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.

IBC CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS (EXISTING TO REMAIN AND NOT ALTERED)

THE PROPOSED BUILDING:
- CONSISTS OF TYPE IIB CONSTRUCTION THROUGHOUT;

506.2 ALLOWABLE AREA DETERMINATION (EXISTING TO REMAIN AND NOT ALTERED)

508.2.3 ALLOWABLE BUILDING AREA

"AGGREGATE ACCESSORY OCCUPANCIES SHALL NOT OCCUPY MORE THAN 10 PERCENT OF THE FLOOR AREA OF THE STORY IN WHICH THEY ARE LOCATED AND SHALL NOT EXCEED THE TABULAR VALUES FOR NONSPRINKLERED BUILDINGS IN TABLE 506.2 FOR EACH ACCESSORY OCCUPANCY."

THE PROPOSED DESIGN IS PROVIDING A 1-HR SEPARATION AT BOARD ROOM 104. WITH THIS SEPARATION, THE MULTI PURPOSE ROOM 172 BECOMES LOWER THAN THE 10 PERCENT THRESHOLD FOR THE ENTIRE SPACE AND THEREFORE DOES NOT REQUIRE A 1-HR SEPARATION.

508.4 SEPARATED OCCUPANCIES, ALLOWABLE BUILDING AREA AND HEIGHT

THE BUILDING COMPLIES WITH SECTION 508.4 FOR SEPARATED OCCUPANCIES. IT CONTAINS GROUP A-3, GROUP B, AND GROUP S-1 OCCUPANCIES.

IBC CHAPTER 6 - TYPES OF CONSTRUCTION

601 GENERAL
THE PROPOSED BUILDING IS CLASSIFIED IN CONSTRUCTION TYPE IIB. BUILDING ELEMENTS, INCLUDING EXTERIOR WALLS, SHALL BE NONCOMBUSTIBLE AND SHALL HAVE THE FIRE-RESISTANCE RATING SHOWN IN THE FOLLOWING TABLE:

BUILDING ELEMENT	REQUIRED FIRE-RESISTANCE RATING FOR TYPE IIB CONSTRUCTION
STRUCTURAL FRAME	0
BEARING WALLS, EXTERIOR	0
BEARING WALLS, INTERIOR	0
NONBEARING WALLS, EXTERIOR	FIRE SEPARATION DISTANCE < 10 = 1 HOUR FIRE SEPARATION DISTANCE ≥ 10 = 0 HOURS
NONBEARING WALLS & PARTITIONS, INTERIOR	0
FLOOR CONSTRUCTION, INCLUDING SUPPORTING BEAMS AND JOISTS	0
ROOF CONSTRUCTION, INCLUDING SUPPORTING BEAMS AND JOISTS	0

603.1 COMBUSTIBLE MATERIALS IN TYPES I AND II CONSTRUCTION - ALLOWABLE MATERIALS
COMBUSTIBLE MATERIALS ARE PERMITTED IN BUILDINGS OF TYPE II CONSTRUCTION IN THE APPLICATIONS LISTED IN THIS SECTION. THESE APPLICATIONS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: FIRE-RETARDANT-TREATED WOOD IN LIMITED APPLICATIONS, THERMAL AND ACOUSTICAL INSULATION, FOAM PLASTICS, ROOF COVERINGS, INTERIOR FINISHES, BLOCKING, AND MASTICS AND CAULKING.

IBC CHAPTER 7 - FIRE AND SMOKE PROTECTION FEATURES

THE FOLLOWING TABLE SUMMARIZES THE REQUIREMENTS FOR FIRE-RESISTANCE-RATED BUILDING ELEMENTS:

BUILDING ELEMENT	CODE REFERENCE	REQUIRED FIRE-RESISTANCE RATING	PROVIDED FIRE-RESISTANCE RATING	REQUIRED FIRE DOOR RATING	PROVIDED FIRE DOOR RATING
OCCUPANCY 'A' - OCCUPANCY 'S'	IBC TABLE 508.4	1 HOUR WITH AUTOMATIC EXTINGUISHING SYSTEM	1 HOUR	45 MIN	45 MIN
OCCUPANCY 'A' - OCCUPANCY 'B'	IBC TABLE 508.4	1 HOUR WITH AUTOMATIC EXTINGUISHING SYSTEM	1 HOUR	45 MIN	0 HOURS
OCCUPANCY 'B' - OCCUPANCY 'S'	IBC TABLE 508.4	0 HOURS	0 HOURS	0 HOURS	0 HOURS

CHAPTER 10 - MEANS OF EGRESS

CODE PROVISION	CODE SECTION	ALLOWED / REQUIRED	PROPOSED
EXIT ACCESS CORRIDOR SEPARATION	TABLE 1020.1	0 HOURS	0 HOURS
OCCUPANT LOAD	TABLE 1004.5	FLOOR AREA DIVIDED BY OCCUPANT LOAD FACTOR FOR ITS USE	OCCUPANT LOADS ARE SHOWN ON SHEET G-002
EGRESS CAPACITY	1005.3.2	0.2 INCHES PER PERSON	EGRESS CAPACITIES ARE SHOWN ON SHEET G-002
NUMBER OF MEANS OF EGRESS	1006.2	TWO	FOUR
EXIT ACCESS	1016.2	EXIT ACCESS IS PERMITTED THROUGH ADJOINING/INTERVENING ROOMS	EXITING THROUGH MAIN LOBBY AND EGRESS STAIR

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DESIGNER

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CLIENT AND PROJECT LOCATION

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KEY PLAN

SHEET TITLE

CODE ANALYSIS

SHEET NUMBER

G-003

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GENERAL STRUCTURAL NOTES

(The following apply unless shown otherwise on the plans)

CRITERIA

1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC).

2. DESIGN LOADING CRITERIA
   PARTITION LIVE LOAD HORIZONTAL 5 PSF

3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

4. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED.

5. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THEIR WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES OF THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.

7. CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.

8. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. WHERE INFORMATION ON THE DRAWINGS IS IN CONFLICT WITH THE SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. DO NOT SCALE THE DRAWINGS.

9. ALL STRUCTURAL SYSTEMS WHICH ARE COMPOSED OF FIELD ERECTED COMPONENTS SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.

10. SHOP DRAWINGS STRUCTURAL STEEL SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.

11. SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, AND THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO. A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR REVIEW.

12. SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

13. SPECIAL INSPECTION: STRUCTURAL STEEL FABRICATION AND ERECTION (INCLUDING FIELD WELDING), EXPANSION ANCHORS AND SCREW ANCHORS SHALL BE SUPERVISED IN ACCORDANCE WITH IBC SECTIONS 1704 & 1705 AND THE PROJECT SPECIFICATIONS BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE OWNER. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE OWNER, ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR AND BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET PROJECT SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

RENOVATION

14. DEMOLITION:
    A. ALL NEW OPENINGS THROUGH EXISTING WALLS, SLABS AND BEAMS SHALL BE ACCOMPLISHED BY SAW CUTTING WHEREVER POSSIBLE.
    B. VERIFY ALL EXISTING CONDITIONS AND LOCATION OF MEMBERS PRIOR TO CUTTING ANY OPENINGS.
    C. SMALL ROUND OPENINGS SHALL BE ACCOMPLISHED BY CORE DRILLING, IF POSSIBLE.
    D. WHERE NEW REINFORCING TERMINATES AT EXISTING CONCRETE, REBAR DOWELS EPOXIED INTO THE EXISTING CONCRETE SHALL BE PROVIDED TO MATCH HORIZONTAL REINFORCING, UNLESS OTHERWISE NOTED ON PLANS.

CONCRETE

15. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 301. CONSTRUCTION TOLERANCES SHALL NOT EXCEED THOSE LISTED IN ACI 117. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF $f'c$ = 2,500 PSI. MIX SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF CEMENT PER CUBIC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5" OR LESS (BEFORE THE ADDITION OF ADMIXTURES). THE WATER/CEMENT RATIO SHALL NOT EXCEED 0.45 FOR ALL SLABS.

    THE MINIMUM AMOUNT OF CEMENT AND THE MAXIMUM SLUMP MAY BE CHANGED IF A CONCRETE PERFORMANCE MIX IS SUBMITTED TO THE STRUCTURAL ENGINEER AND THE BUILDING DEPARTMENT FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. (THE W/C RATIO LIMITS STILL APPLY). THE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, CEMENTITIOUS MATERIAL, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS WELL AS THE WATER CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH ACI 301. CHEMICAL ADMIXTURES AND FLY ASH SHALL CONFORM TO ASTM C494 AND C618 RESPECTIVELY. FLY ASH PERCENTAGE OF TOTAL CEMENTITIOUS MATERIAL SHALL NOT EXCEED 20%. THE USE OF A PERFORMANCE MIX REQUIRES BATCH PLANT INSPECTION, THE COST OF WHICH SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY TO CONTRACT DOCUMENTS. CONTRACTOR MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.

    ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318-14 TABLE 19.3.3.1. ALL CONCRETE TO RECEIVE A STEEL TROWELED FINISH SHALL NOT BE AIR-ENTRAINED.

16. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, f_y = 60,000 PSI.

17. REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315 AND 318. LAP ALL CONTINUOUS REINFORCEMENT #5 AND SMALLER 60 BAR DIAMETERS, 2'-0" MINIMUM.

18. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST EARTH	3"
FORMED SURFACES EXPOSED TO EARTH (i.e. WALLS BELOW GROUND) OR WEATHER	2"
SLABS	1"

19. NON-SHRINK GROUT SHALL BE NON-METALLIC CONFORMING TO ASTM C1107 AND BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (5000 PSI MINIMUM).

ANCHORAGE

20. EXPANSION BOLTS INTO CONCRETE SHALL BE "STRONG-BOLT 2 WEDGE ANCHOR", AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-3037 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS REQUIRED FOR ALL EXPANSION BOLT INSTALLATION.

21. SCREW ANCHORS INTO CONCRETE SHALL BE "TITEN HD", AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-2713 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS REQUIRED FOR ALL SCREW ANCHOR INSTALLATION.

22. DRIVE PINS, SHOT PINS AND OTHER POWDER-ACTUATED FASTENERS SHALL BE LOW VELOCITY TYPE FASTENERS AS MANUFACTURED BY HILTI CORPORATION. WHEN CALLED FOR IN THE DRAWINGS, PROVIDE THE APPROPRIATE FASTENER AS NOTED IN THE TABLE BELOW FOR EACH GIVEN APPLICATION. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORTS NO. ESR-2269 FOR THE X-U FASTENERS AND ESR-2379 FOR THE X-CP FASTENERS. MINIMUM EMBEDMENT IN CONCRETE SHALL BE 1" UNLESS OTHERWISE NOTED. MAINTAIN AT LEAST 3" TO NEAREST CONCRETE EDGE AND 4" CENTER TO CENTER SPACING. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES.

ALLOWABLE APPLICATION	ALLOWABLE FASTENER TYPE	SHEAR CAPACITY (LBS)	TENSION CAPACITY (LBS)
LIGHT GAUGE STEEL 33 MILS (20 GA.) MIN. TO CONCRETE (2000 PSI MIN.)	X-U 27 P8 S15	190	165

23. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) INTO CONCRETE SHALL BE INSTALLED USING "SET-3G" ADHESIVE ANCHOR AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-4057, INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED.

STEEL

24. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON THE LATEST EDITIONS OF THE A.I.S.C. SPECIFICATIONS AND CODES:
    A. AISC - STEEL CONSTRUCTION MANUAL, 15TH EDITION
    B. AISC 303-16 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

25. STRUCTURAL STEEL, WIDE FLANGE (W AND WT) SHAPES SHALL CONFORM TO ASTM A992, F_y = 50 KSI; ALL OTHER ROLLED SHAPES SHALL CONFORM TO ASTM A36, F_y = 36 KSI. STEEL PLATE SHALL CONFORM TO ASTM A36, F_y = 36 KSI. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE C, F_y = 50 KSI. CONNECTION BOLTS SHALL CONFORM TO ASTM A307. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36, F_y = 36 KSI.

    SUBSTITUTION OF MEMBER SIZES OR STEEL GRADE SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ENGINEER ALL OTHER STEEL SHALL HAVE ONE COAT OF APPROVED SHOP PAINT.

    ALL MEMBERS ARE TO BE ERECTED WITH THE NATURAL MILL CAMBER OR INDUCED CAMBER UP, UNLESS OTHERWISE NOTED ON THE DRAWINGS. BEAM CAMBER ON THE DRAWINGS IS THE UPWARD CAMBER REQUIRED IN THE BEAM AS DELIVERED TO THE JOBSITE. CONTRACTOR TO CONSIDER CAMBER LOSS, IF ANY, DUE TO SHIPPING AND HANDLING.

    THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE, BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES, AND OTHER AIDS, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPES, SURFACE ROUGHNESS VALUES AND UNEQUAL PARTS.

26. ALL A307 CONNECTION BOLTS SHALL BE PROVIDED WITH LOCK WASHERS UNDER NUTS OR SELF-LOCKING NUTS. ALL BOLT HOLES SHALL BE STANDARD SIZE UNLESS OTHERWISE NOTED.

27. ALL WELDING SHALL BE IN CONFORMANCE WITH A.I.S.C. AND AWS. STANDARDS AND SHALL BE PERFORMED BY W.A.B.O. CERTIFIED WELDERS USING E70 XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY A.W.S.) SHALL BE USED. WELDING WITHIN 4" OF COLD BENDS IN REINFORCING STEEL IS NOT PERMITTED. SEE REINFORCING NOTE FOR MATERIAL REQUIREMENTS OF WELDED BARS. ALL WELDING SHALL BE PERFORMED BY WELDERS WITH AWS / W.A.B.O. CERTIFICATION WITH THE MATERIAL AND METHOD REQUIRED.

    SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS. WELDS SHOWN ON DRAWINGS ARE MINIMUM SIZES. INCREASE WELD SIZE TO AWS MINIMUM SIZES BASED ON PLATE THICKNESS. MINIMUM WELDING SHALL BE 3/16-INCH. THE WELDS SHOWN ARE FOR THE FINAL CONNECTIONS. FIELD WELD ARROWS ARE SHOWN WHERE A FIELD WELD IS RECOMMENDED BY THE STRUCTURAL DESIGN; THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF A WELD SHOULD BE SHOP OR FIELD WELDED IN ORDER TO FACILITATE THE STRUCTURAL STEEL DELIVERY AND ERECTION.

28. COLD-FORMED STEEL FRAMING NOTES - THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:

    A. COLD-FORMED STEEL FRAMING MEMBERS SHALL BE OF THE SHAPE, SIZE, AND GAUGE SHOWN ON THE PLANS. ALL FRAMING MEMBERS SHALL COMPLY WITH I.C.C. REPORT NO. ESR-3064P. NOTATIONS ON THE DRAWINGS, RELATING TO MEMBER TYPES AND SIZES OR MISCELLANEOUS FRAMING ITEMS, REFER TO CATALOG NUMBERS OF MEMBERS MANUFACTURED BY THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA). PRODUCTS BY OTHER MANUFACTURERS MAY BE SUBSTITUTED FOR FRAMING SHOWN, PROVIDED THEY ARE EQUIVALENT IN SHAPE, SIZE, STIFFNESS, AND STRENGTH. ALTERNATE FRAMING SHALL BE SUBJECT TO REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO FABRICATION. ALL COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE A.I.S.I. "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."

    B. MATERIAL:
    METAL FRAMING SHALL BE GALVANIZED UNLESS OTHERWISE NOTED, CONFORMING AS FOLLOWS:

    ASTM A653 SS GRADE 33 F_y = 33 KSI 43 AND 33 MIL

    C. WELDING OF COLD-FORMED METAL FRAMING SHALL CONFORM TO AWS D1.3 AND SHALL BE PERFORMED BY WELDERS QUALIFIED TO PRODUCE THE SPECIFIED CLASSES OF WELD.

    D. WALL FRAMING: ALL STUD WALLS SHOWN AND NOT OTHERWISE NOTED SHALL BE 350S125-43 @ 16" O.C. AT INTERIOR WALLS UP TO 16'-0" TALL AND 350S162-54 AT 16" O.C. AT INTERIOR WALLS UP TO 20'-0" TALL. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL WALLS AND AT EACH SIDE OF ALL OPENINGS. PROVIDE CONTINUOUS FULL WIDTH BLOCKING AT 1/3 POINTS OF ALL STUD WALLS UNLESS NOTED OTHERWISE. MAXIMUM GAP BETWEEN STUD AND TRACK AT ANY POINT SHALL NOT EXCEED 1/16-INCH. NO SPLICES ARE PERMITTED IN STUDS.

    ALL STUD WALLS SHALL HAVE THEIR BOTTOM TRACKS ATTACHED TO FRAMING BELOW WITH #8 SCREWS AT 16" O.C. OR ATTACHED TO CONCRETE WITH 5/32" DIAMETER DRIVE-PINS @ 16" O.C. UNLESS INDICATED OTHERWISE. INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE WELDED OR SCREWED TO EACH OTHER IN ACCORDANCE WITH THE DETAILS. WHEN NOT OTHERWISE NOTED, PROVIDE GYPSUM WALLBOARD ON INTERIOR SURFACES AND GYPSUM SHEATHING ON EXTERIOR SURFACES SCREWED TO ALL STUDS, TOP AND BOTTOM TRACKS, AND BLOCKING WITH SCREWS AT 12" O.C. ALL SCREWS SHALL BE "GRABBER" TYPE FASTENERS COMPLYING WITH I.C.C. REPORT NO. ESR-1271 ALL SPECIFIED PNEUMATIC FASTENERS SHALL BE ET&F, COMPLYING WITH I.C.C. REPORT NO. ESR-1777 TRACK SECTIONS SHALL BE UNPUNCHED AND HAVE AT LEAST 1" FLANGES AND MATCH STUD THICKNESS.

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

PRCTI20230098

Plan: O:\19305 - South Hill South Building Study\03 Fire and Rescue 71\09-s100.dwg Plotted: Thu, 01/26/2023 8:19 am By: schen

PROJECT NAME
CENTRAL PIERCE FIRE AND RESCUE T.I.

PROJECT ADDRESS
1015 - 39TH AVENUE SE
PUYALLUP, WA

CLIENT
BENAROYA

No.	Date	Revision Description
	1/27/2023	PERMIT SUBMITTAL

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MECHANICAL/ ELECTRICAL ENGINEER

LIFE SAFETY CODE CONSULTANT

INTERIOR DESIGN

LANDSCAPE ARCHITECT

DRAWING STATUS
Permit Set

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STAMP
SCOTT H. TINKEY — STATE OF WASHINGTON — 36008 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

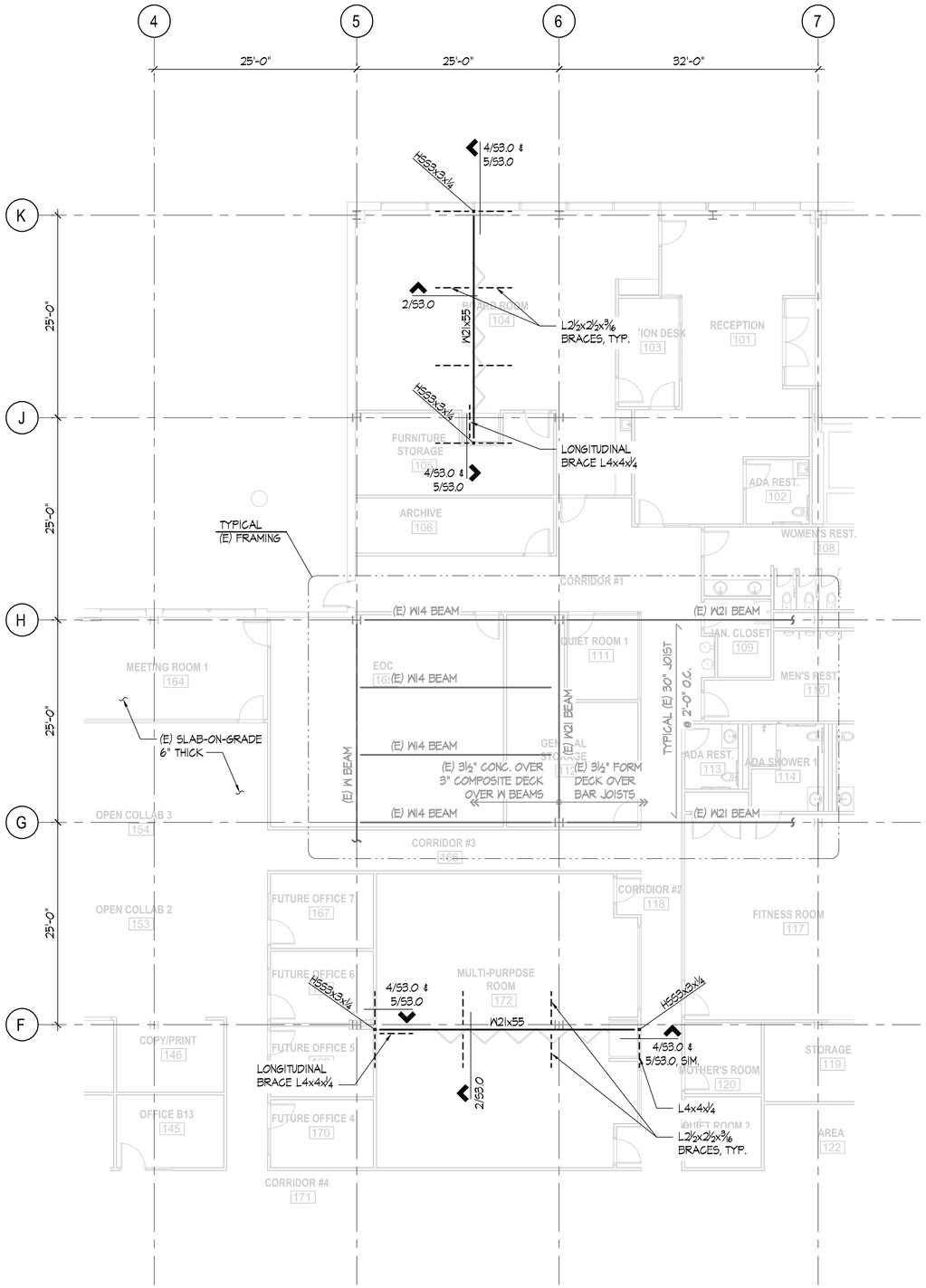
DRAWING TITLE
GENERAL STRUCTURAL NOTES

DRAWN	CHECKED
SC	MDW
SCALE	DATE
	1/27/2023

PROJECT NO. 19305.03

DRAWING NO. **S1.0**

REVISION NO.



NORTH

PARTIAL FLOOR PLAN

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

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

PLAN NOTES:

1. ALL DIMENSIONS ON THE STRUCTURAL PLANS ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR WITH THE ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
2. ALL EXISTING INFORMATION IS ASSUMED AND SHALL BE FIELD VERIFIED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
3. WHERE SAW CUTTING IS REQUIRED AND NEW CONCRETE IS CAST AGAINST EXISTING CONCRETE SLAB, SEE DETAIL 6/S3.0
4. SEE SHEET S4.0 FOR TYPICAL NON-BEARING LIGHT GAGE WALL DETAILS.

ALSO SEE REVISIONS FOR OH DOOR

PRCTI20230098

File: G:\19305 - South Hill South Building Study\03 Fire and Rescue TI\079-s200.dwg Plotted: Thu, 01/26/2023 8:19 am By: schen

PROJECT NAME

CENTRAL PIERCE FIRE AND RESCUE T.I.

PROJECT ADDRESS

1015 - 39TH AVENUE SE
PUYALLUP, WA

CLIENT

BENAROYA

1/27/2023 PERMIT SUBMITTAL

No.	Date	Revision Description

REVISIONS

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MECHANICAL/ ELECTRICAL ENGINEER

LIFE SAFETY CODE CONSULTANT

INTERIOR DESIGN

LANDSCAPE ARCHITECT

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SCOTT H. TINKEY — STATE OF WASHINGTON — 36098 — STRUCTURAL SYSTEMS — PROFESSIONAL ENGINEER

DRAWING TITLE

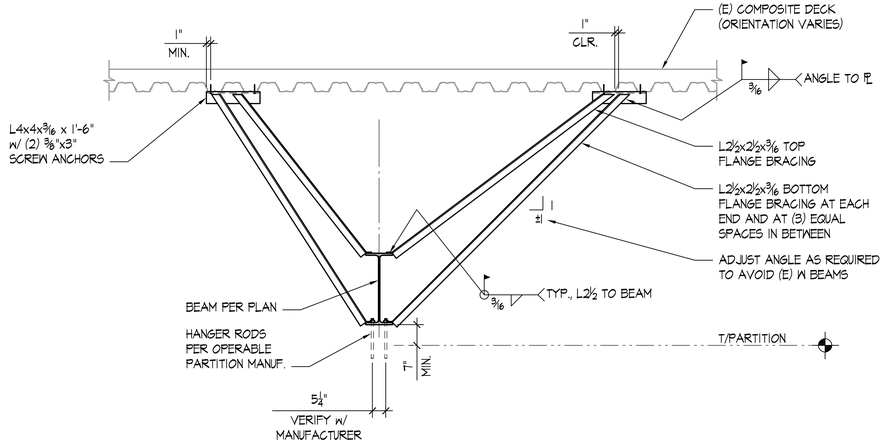
PARTIAL FLOOR PLAN

DRAWN	CHECKED
SC	MDW
SCALE	DATE
	1/27/2023

PROJECT NO. 19305.03

DRAWING NO. **S2.0**

REVISION NO.



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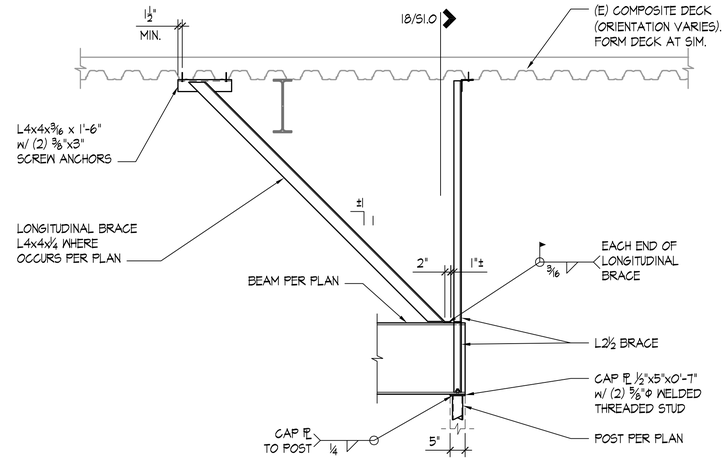

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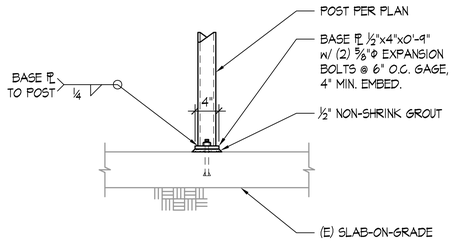

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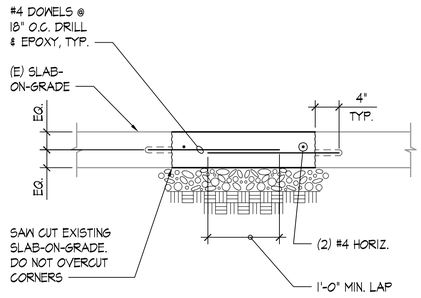

INFILL SLAB AT CUT EXISTING CONCRETE SCALE: NONE **6**

DETAIL SCALE: 1"=1'-0" **7**

DETAIL SCALE: 1"=1'-0" **8**

DETAIL SCALE: 1"=1'-0" **9**

DETAIL SCALE: 1"=1'-0" **10**

DETAIL SCALE: 1"=1'-0" **11**

DETAIL SCALE: 1"=1'-0" **12**

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

PRCTI20230098

PROJECT NAME

CENTRAL PIERCE FIRE AND RESCUE T.I.

PROJECT ADDRESS

1015 - 39TH AVENUE SE
PUYALLUP, WA

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BENAROYA

1/27/2023 PERMIT SUBMITTAL

No.	Date	Revision Description

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MARSHALL DESIGN + MANAGEMENT T: 206-890-1570

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SCOTT H. TINKA — STATE OF WASHINGTON — 36098 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

DRAWING TITLE

DETAILS

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SC	MDW
SCALE	DATE
	1/27/2023

PROJECT NO. 19305.03

DRAWING NO. **S3.0**

REVISION NO.

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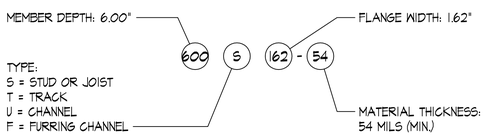
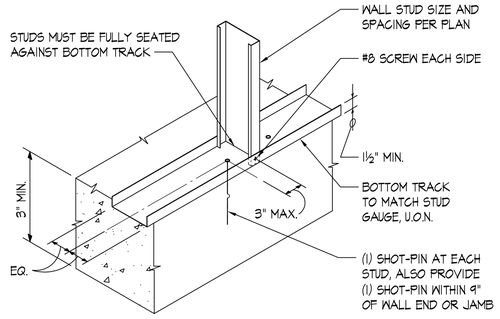
CONVERSION CHART		
MIL.	GAUGE	NOTES
30	20	DRYWALL
33	20	STRUCTURAL
43	18	
54	16	
68	14	
97	12	

EXAMPLE:



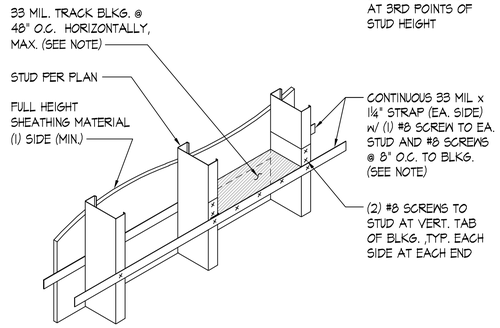
TYPICAL LIGHT GAUGE STEEL NOTATION (SSMA STANDARD) — SCALE: NONE | 1

NOTE:
ALL "SHOT-PINS" SHALL BE POWDER ACTUATED FASTENERS PER THE STRUCTURAL GENERAL NOTES.

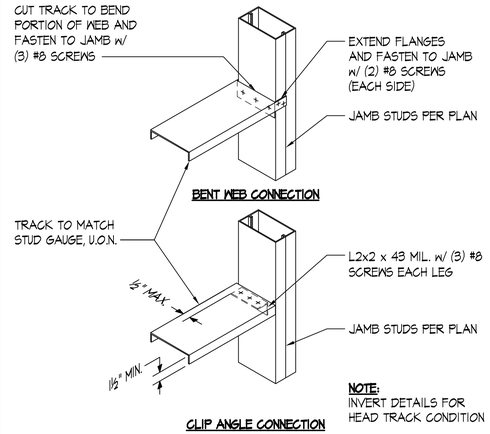


TYPICAL BOTTOM TRACK ATTACHMENT TO CONCRETE — SCALE: NONE | 2

NOTE:
PROVIDE HORIZ. STRAPPING/BLKG. AT 3RD POINTS OF STUD HEIGHT

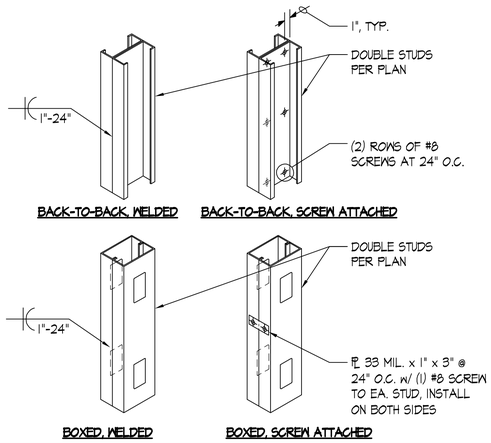


TYPICAL HORIZONTAL STRAPPING/BLOCKING — SCALE: NONE | 3

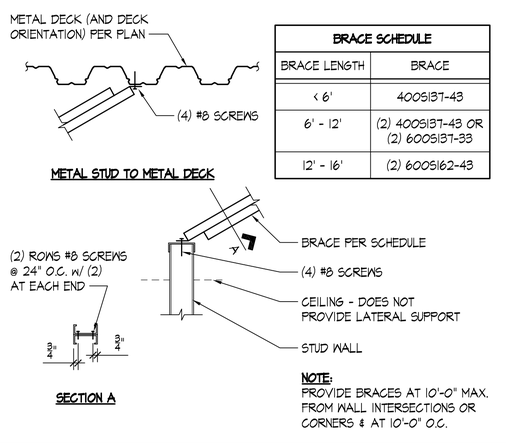


NOTE:
INVERT DETAILS FOR HEAD TRACK CONDITION

TYPICAL SILL AND HEAD TRACK CONNECTIONS — SCALE: NONE | 4



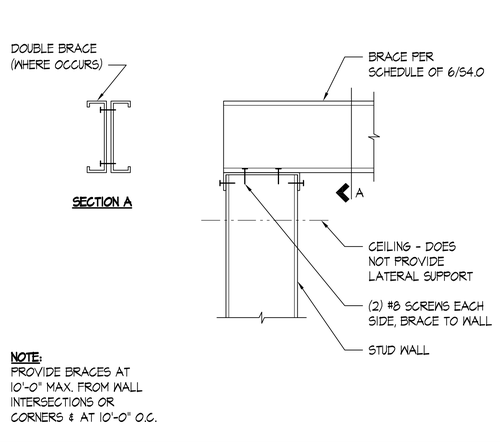
TYPICAL DOUBLE STUD — SCALE: NONE | 5



BRACE SCHEDULE	
BRACE LENGTH	BRACE
< 6'	400S137-43
6' - 12'	(2) 400S137-43 OR (2) 600S137-33
12' - 16'	(2) 600S162-43

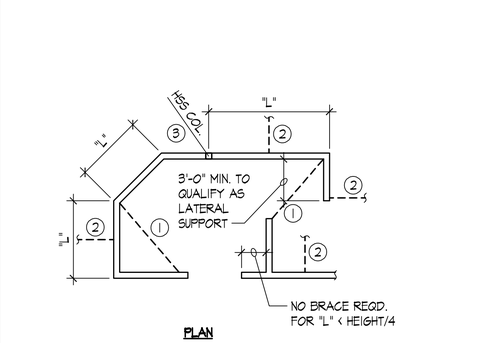
NOTE:
PROVIDE BRACES AT 10'-0" MAX. FROM WALL INTERSECTIONS OR CORNERS & AT 10'-0" O.C.

TYPICAL PARTIAL HEIGHT PARTITION WALL BRACING — SCALE: NONE | 6



NOTE:
PROVIDE BRACES AT 10'-0" MAX. FROM WALL INTERSECTIONS OR CORNERS & AT 10'-0" O.C.

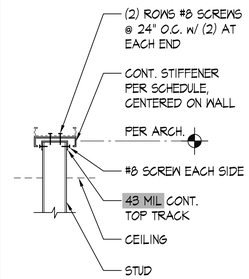
TYPICAL PARTITION WALL HORIZONTAL BRACE — SCALE: NONE | 7



PLAN

NOTES:

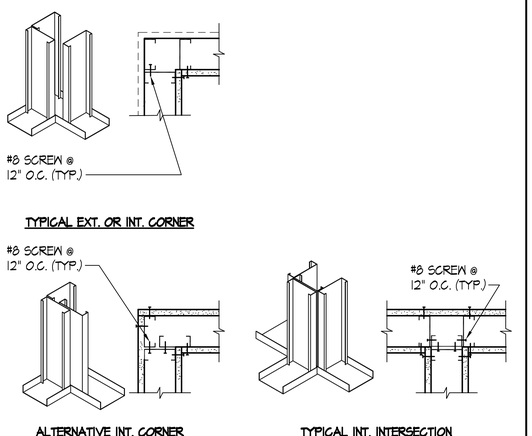
1. THIS PLAN IS AN EXAMPLE ONLY. IT DOES NOT REPRESENT A SPECIFIC WALL.
2. "L" INDICATES UNBRACED LENGTH OF WALLS, SEE SCHEDULE FOR TOP OF WALL STIFFENER SIZE.
3. AT CONTRACTOR'S OPTION, INSTEAD OF TOP OF WALL STIFFENER:
   - (1) INDICATES HORIZ. BRACE EXTENDING TO ADJACENT CORNER PER 7/S4.0.
   - (2) INDICATES BRACE UP TO STRUCTURE PER 6/S4.0.
   - (3) INDICATES WALL BRACED AT HSS COLUMN. FASTEN STUDS TO ADJACENT FACE OF HSS COL. w/ SHOT PINS @ 16" O.C.
4. CEILING DOES NOT PROVIDE LATERAL SUPPORT.
5. PROVIDE BRACING AT ALL TOP TRACK SPLICES.



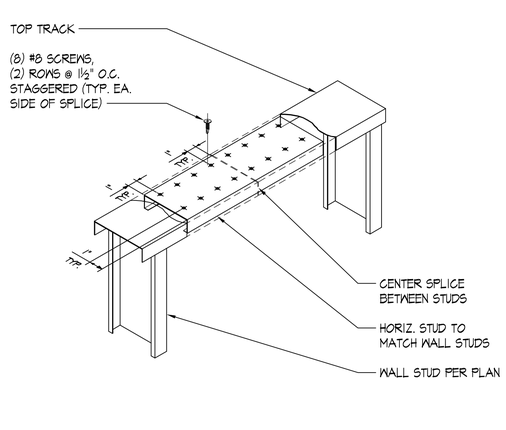
TOP OF WALL STIFFENER SCHEDULE	
"L"	STIFFENER
< 8'	NONE REQD.
8'-13'	600S137-33
13'-16'	(2) 600S137-33
16'-24'	(2) 800S162-43

TOP OF WALL STIFFENER

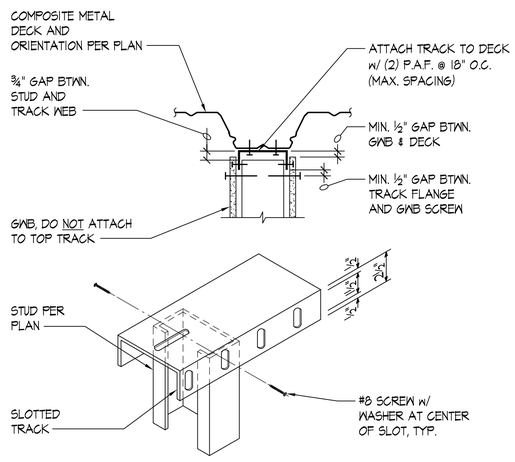
TYPICAL PARTIAL HEIGHT PARTITION WALL LATERAL SUPPORT — SCALE: NONE | 12



TYPICAL WALL INTERSECTION — SCALE: NONE | 9



TYPICAL TOP TRACK SPLICE — SCALE: NONE | 10



TYPICAL DEFLECTION TRACK — SCALE: NONE | 11

PROJECT NAME

CENTRAL PIERCE FIRE AND RESCUE T.I.

PROJECT ADDRESS

1015 - 39TH AVENUE SE
PUYALLUP, WA

CLIENT

BENAROYA

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

1/27/2023 PERMIT SUBMITTAL

No.	Date	Revision Description
REVISIONS		

CONSULTANTS

DESIGN ARCHITECT
MARSHALL DESIGN + MANAGEMENT — T: 206-890-1570

STRUCTURAL ENGINEER
QUANTUM CONSULTING ENGINEERS — 1511 THIRD AVE, SUITE 323, SEATTLE, WA 98101, T: 206-957-3900

MECHANICAL/ ELECTRICAL ENGINEER

LIFE SAFETY CODE CONSULTANT

INTERIOR DESIGN

LANDSCAPE ARCHITECT

DRAWING STATUS

Permit Set

Discrepancies must be reported to the Architect before proceeding. Only figured dimensions are to be used. Contractors must check all dimensions on site. This drawing is protected by copyright.

ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

QUANTUM CONSULTING ENGINEERS
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SEATTLE, WA 98101
TEL 206.957.3900
FAX 206.957.3901
www.quantumce.com

STAMP

SCOTT H. TINKEY — STATE OF WASHINGTON — 36098 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

DRAWING TITLE

TYPICAL LIGHT GAUGE DETAILS

DRAWN	CHECKED
SC	MDW
SCALE	DATE
	1/27/2023

PROJECT NO. 19305.03

DRAWING NO. **S4.0**

REVISION NO.

File: Q:\19305 - South Hill South Building Study\S4 Fire and Rescue TI\S79-s4902.dwg Plotted: Thu, 01/26/2023 8:19 am By: ashen

PRCTI20230098

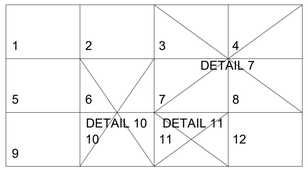
ABBREVIATIONS

A	
ABB	ABBREVIATION
ACT	ACOUSTICAL CEILING TILE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ARCH	ARCHITECT (URAL)
B	
BD	BOARD
BLDG	BUILDING
BO	BOTTOM OF
C	
CBB	CEMENTITIOUS BACKER BOARD
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CG	CORNER GUARD
CI	CONTINUOUS INSULATION
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR/ CLEARANCE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CPT	CARPET
CT	CERAMIC TILE
D	
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
E	
E	EAST
EA	EACH
ELEC	ELECTRIC(AL)
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXT	EXTERIOR
F	
FA	FIRE ALARM
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEB	FIRE EXTINGUISHER BRACKET
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FLR	FLOOR (ING)
FP	FIRE PROTECTION
FT	FEET
G	
GA	GAUGE
GALV	GALVANIZED
GL	GRID LINE
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	
HM	HOLLOW METAL
HW	HARDWARE
I	
INSUL	INSULATION
INT	INTERIOR
J	
JAN	JANITOR
M	
MAT	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MTD	MOUNTED
MTL	METAL
N	
N	NORTH
NE	NORTH EAST
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NW	NORTHWEST
O	
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OTS	OPEN TO STRUCTURE
P	
PERP	PERPENDICULAR
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PREFIN	PREFINISHED
PT	PAINT; PRESSURE TREATED
PTDWR	PAPER TOWEL DISPENSER/ WASTE RECEPTACLE
PTL	PORCELAIN TILE
R	
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
REF	REFERENCE
REQ'D	REQUIRED
REST	RESTROOM
REV	REVISION
RO	ROUGH OPENING
S	
S	SOUTH
SCWD	SOLID CORE WOOD DOOR
SD	SOAP DISPENSER
SE	SOUTHEAST
SF	SQUARE FOOT (FEET)
SIM	SIMILAR
SND	SANITARY NAPKIN & TAMPON DISPOSAL RECEPTACLE
SPEC	SPECIFICATION
SS	SOLID SURFACE
SST	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
T	
T & G	TONGUE AND GROOVE
TBD	TO BE DETERMINED
TO	TOP OF
TOS	TOP OF SLAB OR STEEL
TPD	TOILET PAPER DISPENSER
TS	TUBE STEEL
TSCD	TOILET SEAT COVER DISPENSER
TV	TELEVISION
TYP	TYPICAL
U	
UNO	UNLESS NOTED OTHERWISE
V	
VERT	VERTICAL
W	
W	WEST
W/	WITH
WD	WOOD
WP	WALL PANEL
WRB	WEATHER RESISTIVE BARRIER
WT	WINDOW TREATMENT

HATCH SYMBOLS

- EARTH (NATIVE GRADE OR COMPACTED FILL)
- GRAVEL
- PLASTER, GROUT, OR SAND
- CONCRETE
- METAL
- EXISTING
- PLYWOOD
- FINISH LUMBER
- CONT. WOOD STUDS
- BLOCKING
- BATT INSULATION
- ACOUSTICAL CEILING TILE
- RIGID INSULATION

DETAIL IDENTIFICATION



1. DETAIL NUMBERS ARE BASED ON LOCATION OF THE DETAIL DRAWING ON THEDETAIL SHEET AND MAY NOT BE SEQUENTIAL.
2. DETAIL IDENTIFICATION NUMBER IS THE NUMBER OF THE LOWEST LEFT HANDMODULE OCCUPIED BY THE DETAIL.

GENERAL NOTES

1. REPETITIVE FEATURES NOT NOTED ON THE DRAWINGS SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
2. DO NOT SCALE THE DRAWINGS
3. DIMENSIONS ON DRAWINGS ARE TAKEN TO/FROM THE LOCATIONS LISTED BELOW UNLESS OTHERWISE INDICATED:

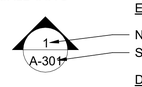
   GRID LINES
   CENTER OF WALL UNLESS NOTED OTHERWISE
   CENTERLINES OF DOORS IN METAL STUD WALLS
4. DIMENSIONS ON INTERIOR ELEVATIONS ARE TAKEN TO/FROM THE:

   FINISHED GYPSUM WALLBOARD
   CABINETRY
   CENTERLINES OF FIXTURES
5. PLAN VIEWS ARE CUT AT 4'-0" AFF WITH CERTAIN PLAN REGIONS SHOWN BEING CUT HIGHER FOR COORDINATION PURPOSES.
6. GRID LINES INDICATE THE CENTERLINE OF PRIMARY COLUMNS. COLUMNS ARE EXISTING.
7. MECHANICAL AND ELECTRICAL INFORMATION SHOWN ON THE ARCHITECTURAL DRAWINGS ARE PROVIDED FOR CLARITY AND/OR LOCATIONAL PURPOSES ONLY. SEE MECHANICAL AND ELECTRICAL DRAWINGS.
8. BUILDING HEIGHTS AND ELEVATIONS ARE BASED UPON PROJECT FINISH ELEVATION OF 100'-0" AT THE FIRST FLOOR.
9. ALL WORK SHALL COMPLY WITH 2018 INTERNATIONAL BUILDING CODE (IBC) AND INTERNATIONAL FIRE CODE (IFC) 2018.
10. ALL DOORS IN STUD WALLS NOT LOCATED BY DIMENSION ON PLANS OR DETAILS SHALL BE 4" FROM FACE OF ADJACENT PERPENDICULAR WALL TO EDGE OF DOOR OPENING.
11. ROOM AND DOOR NUMBERS SHOWN ON DRAWINGS ARE FOR CONSTRUCTION PURPOSES ONLY.
12. VERIFY FIELD DIMENSIONS PRIOR TO COMMENCEMENT OF WORK.
13. BUILDING STANDARD TENANT IMPROVMENT SYSTEMS, MATERIALS, AND FINISHES ARE TO BE PROVIDED UNLESS REQUIRED BY TENANT STANDARDS OUTLINE IN THE LEASE.
14. THE CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.

SYMBOLS

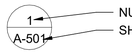
CALL-OUTS

ELEVATION & BUILDING, WALL, SECTION SYMBOL



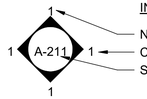
NUMBER INDICATES SECTION/ELEVATION
SHEET NUMBER WHERE SECTION/ELEVATION IS DRAWN

DETAIL SYMBOL

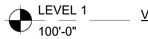


NUMBER INDICATES DETAIL
SHEET NUMBER WHERE DETAIL IS DRAWN

INTERIOR ELEVATION SYMBOL



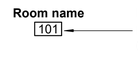
NUMBER INDICATES INTERIOR ELEVATION
COMPASS POINTS INDICATES WHICH ELEVATIONS ARE DRAWN
SHEET NUMBER WHERE ELEVATION IS DRAWN



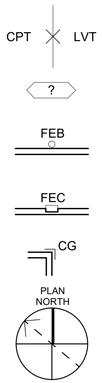
VERTICAL OR SPOT ELEVATION

IDENTIFICATION

- ROOF, SOFFIT, FLOOR, AND CEILING TYPE
- CONSTRUCTION GRID LINE AND BUBBLE
- WALL TYPE
- KEYNOTE
- WINDOW, LOUVER
- GUARDRAIL
- REVISION
- DOOR



- ROOM NAME
- ROOM NUMBER (FOR CONSTRUCTION ONLY)



- FLOOR FINISH TRANSITION
- FURNITURE, FIXTURE,AND EQUIPEMENT
- FIRE EXTINGUISHER BRACKET - SURFACE MOUNT
- FIRE EXTINGUISHER CABINET - SEMI-RECESSED
- CORNER GUARD LOCATION
- NORTH ARROW

SYMBOLS

L	ANGLE
&	AND
@	AT
∅	DIAMETER
°	DEGREE
℄	CENTER LINE

City of Puyallup
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ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

PRCTI20230098

DESIGNER

MARSHALL DESIGN + MANAGEMENT
12400 SE 38TH #50766
BELLEVUE, WA 98105

CLIENT AND PROJECT LOCATION

Benaroya

BENAROYA
SOUTH HILL BUSINESS AND TECHNOLOGY CENTER
1015 39TH AVE SE
PUYALLUP, WA 98374

PROJECT

CENTRAL PIERCE FIRE AND RESCUE
1015 39TH AVE SE, SUITE 120
PUYALLUP, WA 98374

ARCHITECT

WJA DESIGN-COLLABORATIVE
617 WESTERN AVE
SEATTLE, WA 98104

STAMP

ISSUANCE

ISSUE DATE	01/30/2023
DRAWN BY:	WJA
CHECKED BY:	WJA

REVISION LIST

NO.	DATE	DESCRIPTION	BY

KEY PLAN

SHEET TITLE

ARCHITECTURAL GENERAL NOTES & LEGENDS

SHEET NUMBER

A-001

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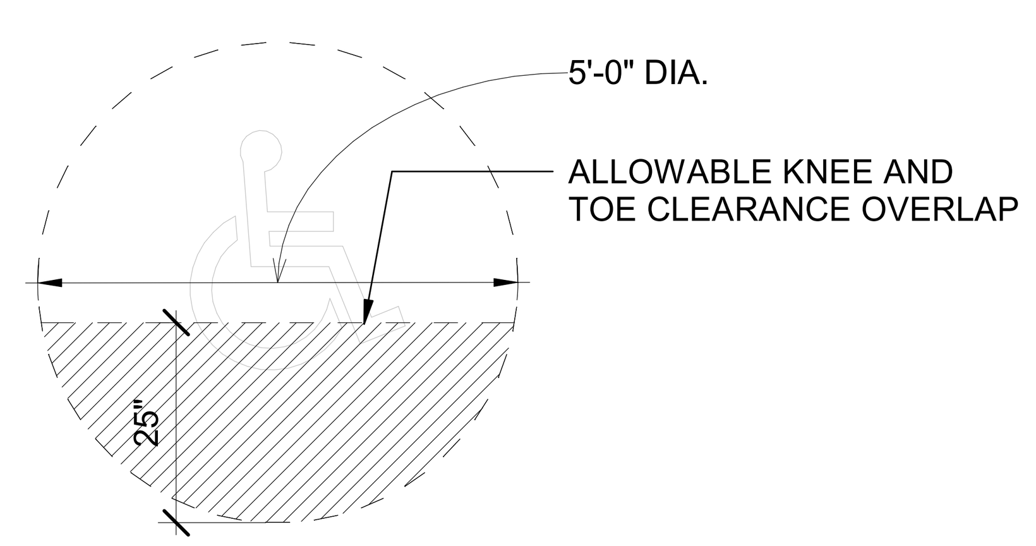
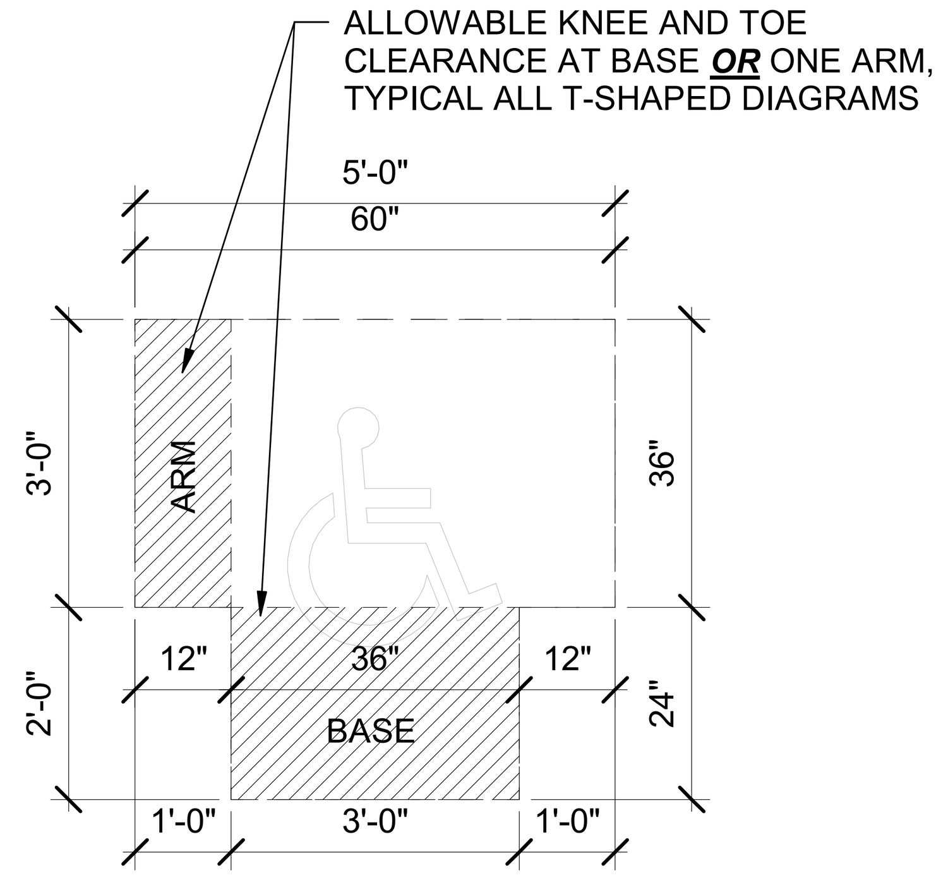
PM 1/27/2023 10:00:01

ACCESSIBLE MANEUVERING CLEARANCE AND APPROACH (PLAN VIEW)

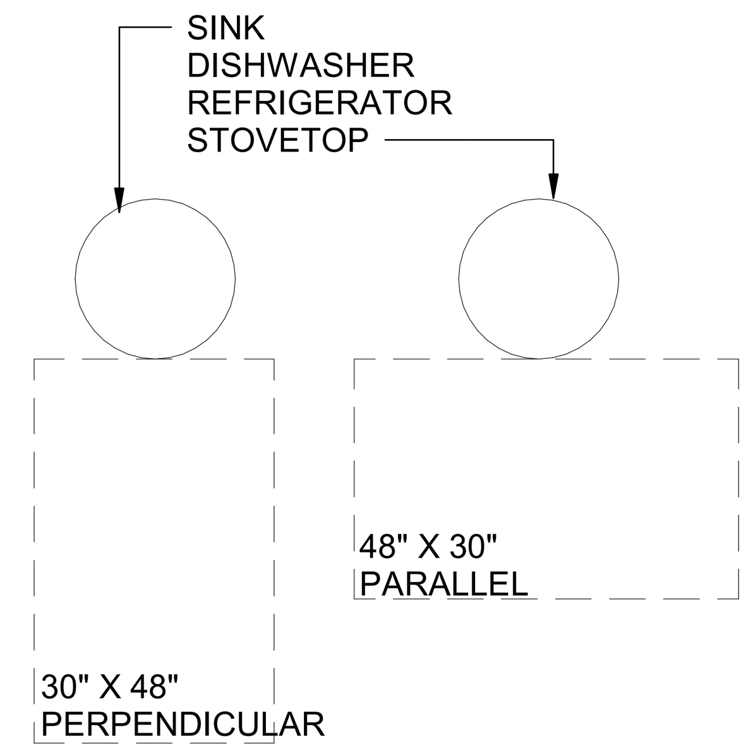
SCALE : 1/2" = 1'-0"





'T' SHAPED TURNING SPACE FOR EXISTING BUILDINGS

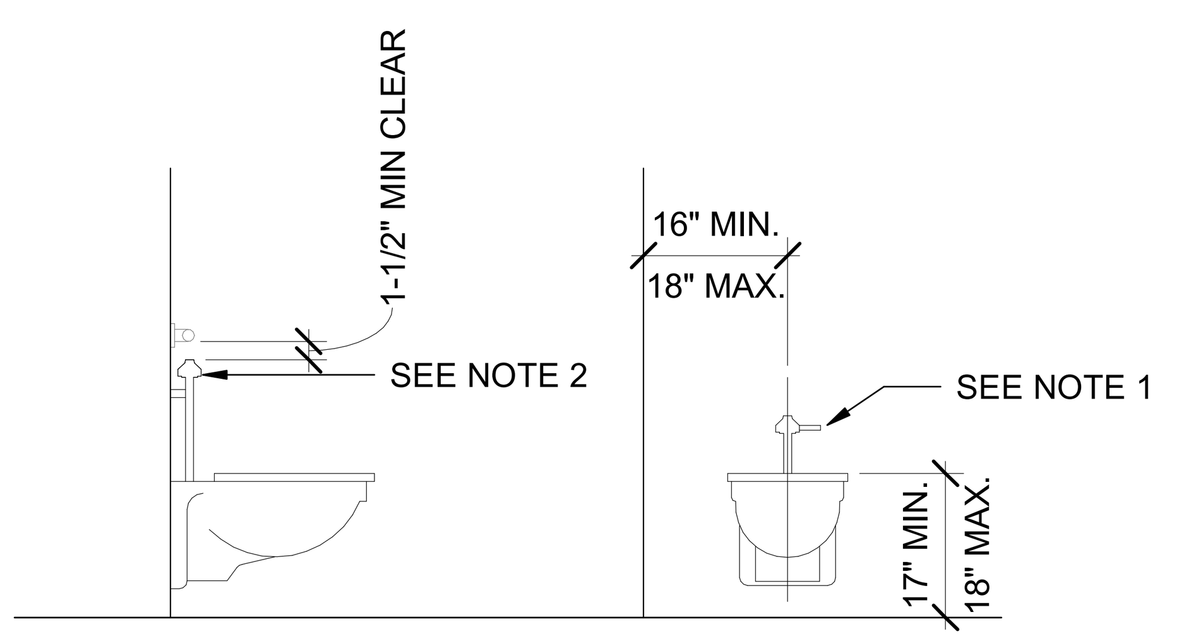
T-SHAPED TURN SPACE DIAGRAMS EXISTING BUILDINGS



APPROACH

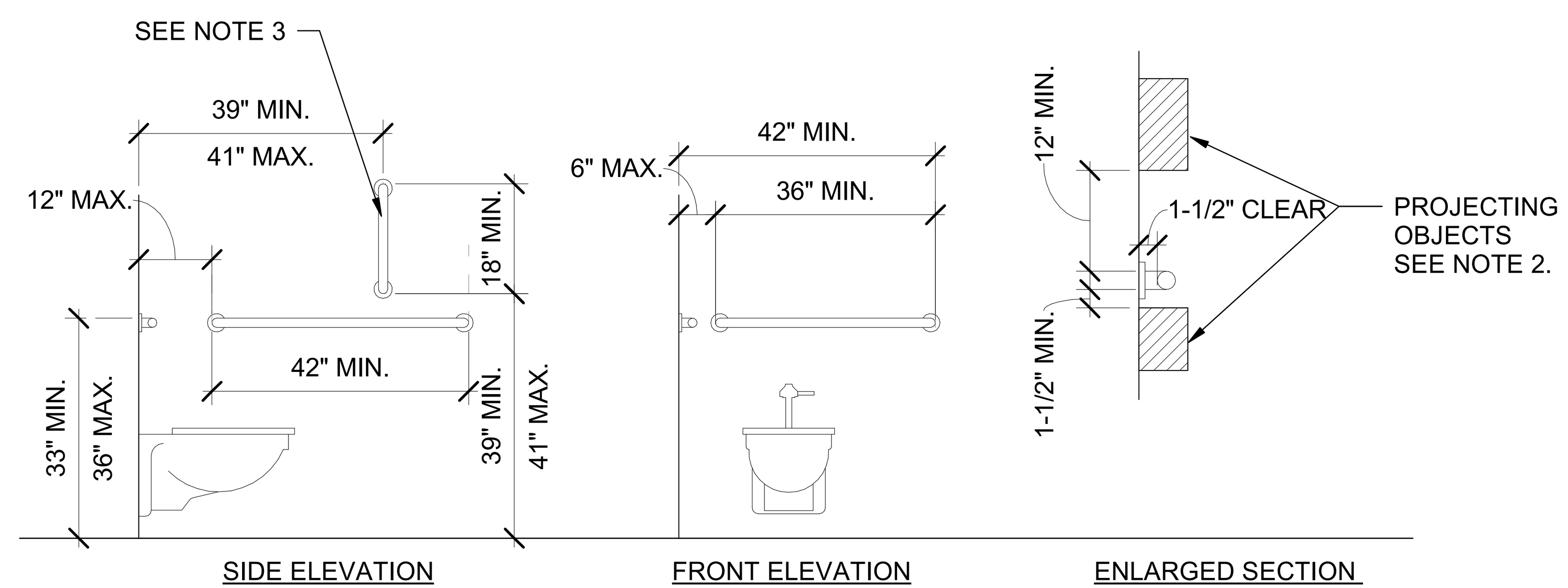
ACCESSIBILITY GENERAL NOTES

1. ALL LISTED ACCESSIBILITY STANDARD ARE REQUIRED.
2. NO EXCEPTIONS FOR ACCESSIBILITY REQUIREMENTS PROVIDED. ALL ELEMENTS OF THE PROJECT MUST CONFORM TO 2010 ADA AND ICC A117.1 2017 LAWS. IF ACCESSIBILITY STANDARDS ARE IN CONFLICT THE PROJECT MUST COMPLY WITH THE MORE RESTRICTIVE STANDARD.
3. DIAGRAMS ON SHEETS A-002 AND A-003 ARE FROM ICC/ANSI A117.1



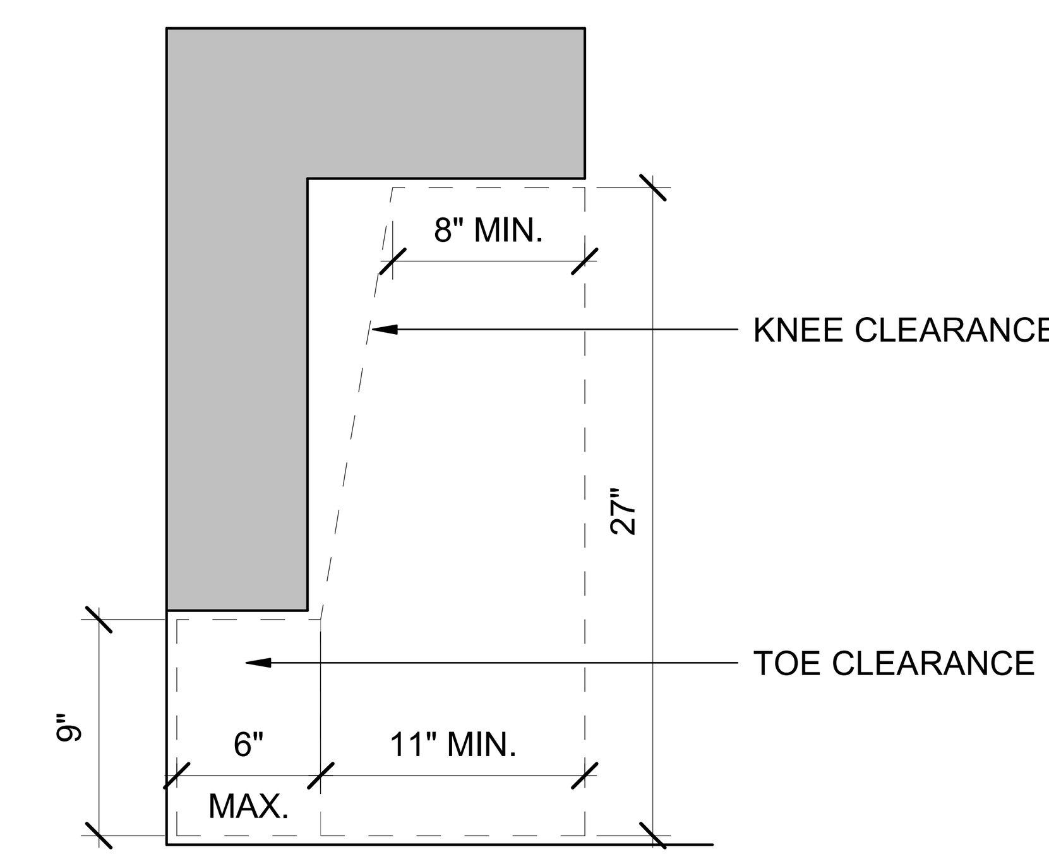
ACCESSIBLE WATER CLOSETS MOUNTING HEIGHTS AND CLEARANCES

1. LOCATE MANUAL FLUSH CONTROLS ON OPEN SIDE (NON-WALL SIDE) OF THE WATER CLOSET.
2. MAINTAIN A MINIMUM OF 1-1/2" CLEAR BETWEEN FLUSH VALVE AND GRAB BARS.



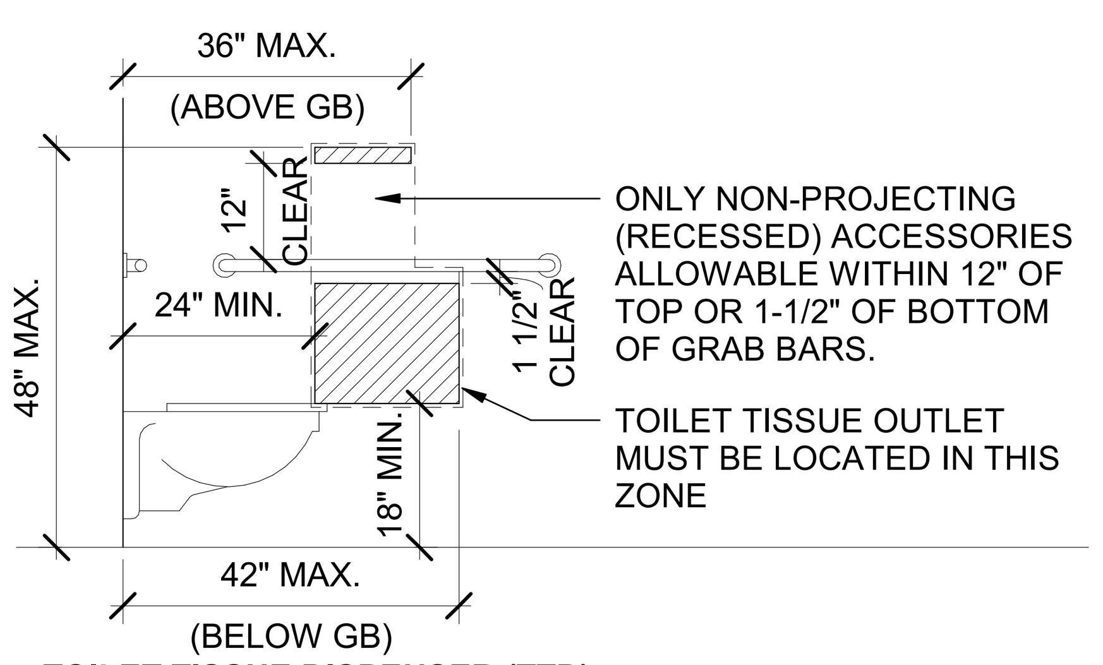
GRAB BAR (GB) MOUNTING DIAGRAMS FOR ACCESSIBLE WATER CLOSETS

1. CONTRACTOR IS RESPONSIBLE FOR FIELD COORDINATION OF APPLICABLE CLEARANCES WITH PLUMBING FIXTURES AND TOILET ACCESSORIES.
2. GRAB BARS WITH A ROUND CROSS-SECTION SHALL HAVE A MINIMUM DIAMETER OF 1-1/4" AND MAXIMUM OF 2".
3. PROJECTING OBJECTS OTHER THAN ADJACENT GRAB BARS SHALL BE A MINIMUM OF 1-1/2" CLEAR OF THE BOTTOM AND 12" CLEAR OF THE TOP OF HORIZONTAL GRAB BARS.
4. PROVIDE VERTICAL GRAB BAR WHERE REQUIRED BY AHJ.
5. MOUNT ALL ADJACENT HORIZONTAL GRAB BARS AT THE SAME ELEVATION.
6. IT IS RECOMMENDED TO PROVIDE BLOCKING IN WALL ACCOMMODATING ALL RANGES OF SHOWN FOR THE GREATEST FLEXIBILITY FOR FIELD COORDINATION.

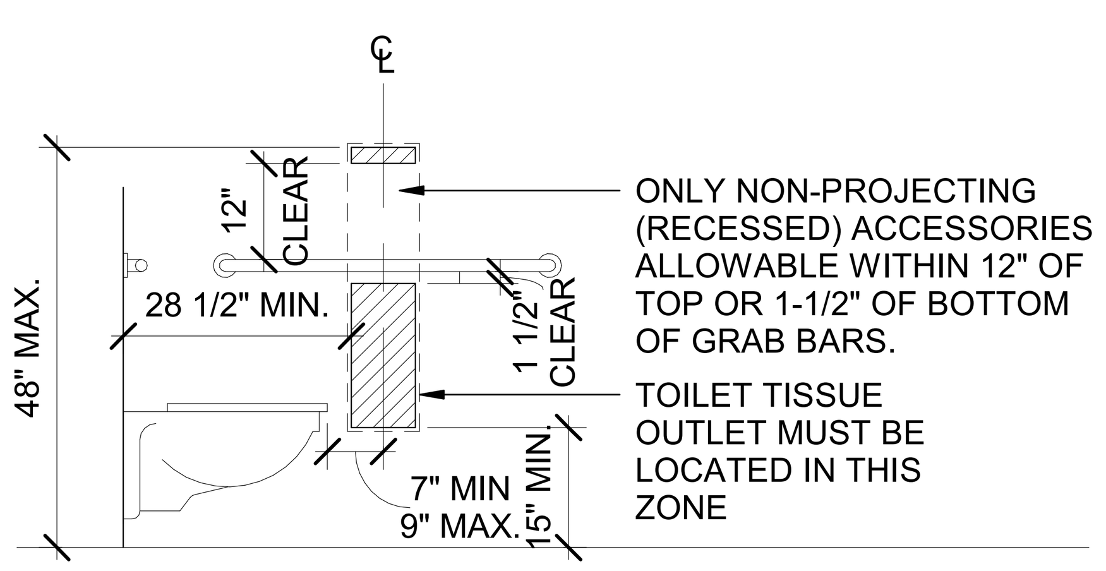


ACCESSIBLE KNEE AND TOE CLEARANCE

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

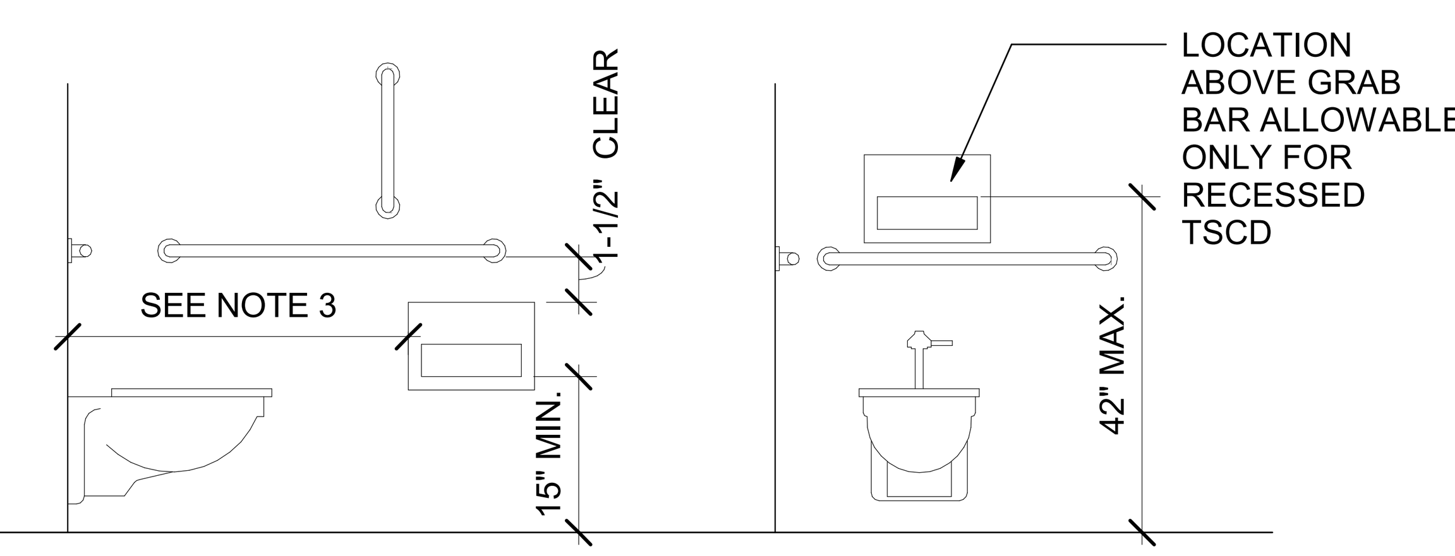


TOILET TISSUE DISPENSER (TTD) MOUNTING DIAGRAM



TOILET TISSUE DISPENSER (TTD) ALTERNATE MOUNTING DIAGRAM

1. TTD SPECIFICATION MUST MEET THE REQUIREMENTS OF ***ICC A117.1 SECTION 607.1 - EXCEPTION 1***. THE TOILET TISSUE DISPENSER MAY ACCOMMODATE A MAXIMUM OF 2 TOILET PAPER ROLLS NOT MORE THAN 5" IN DIAMETER EACH..

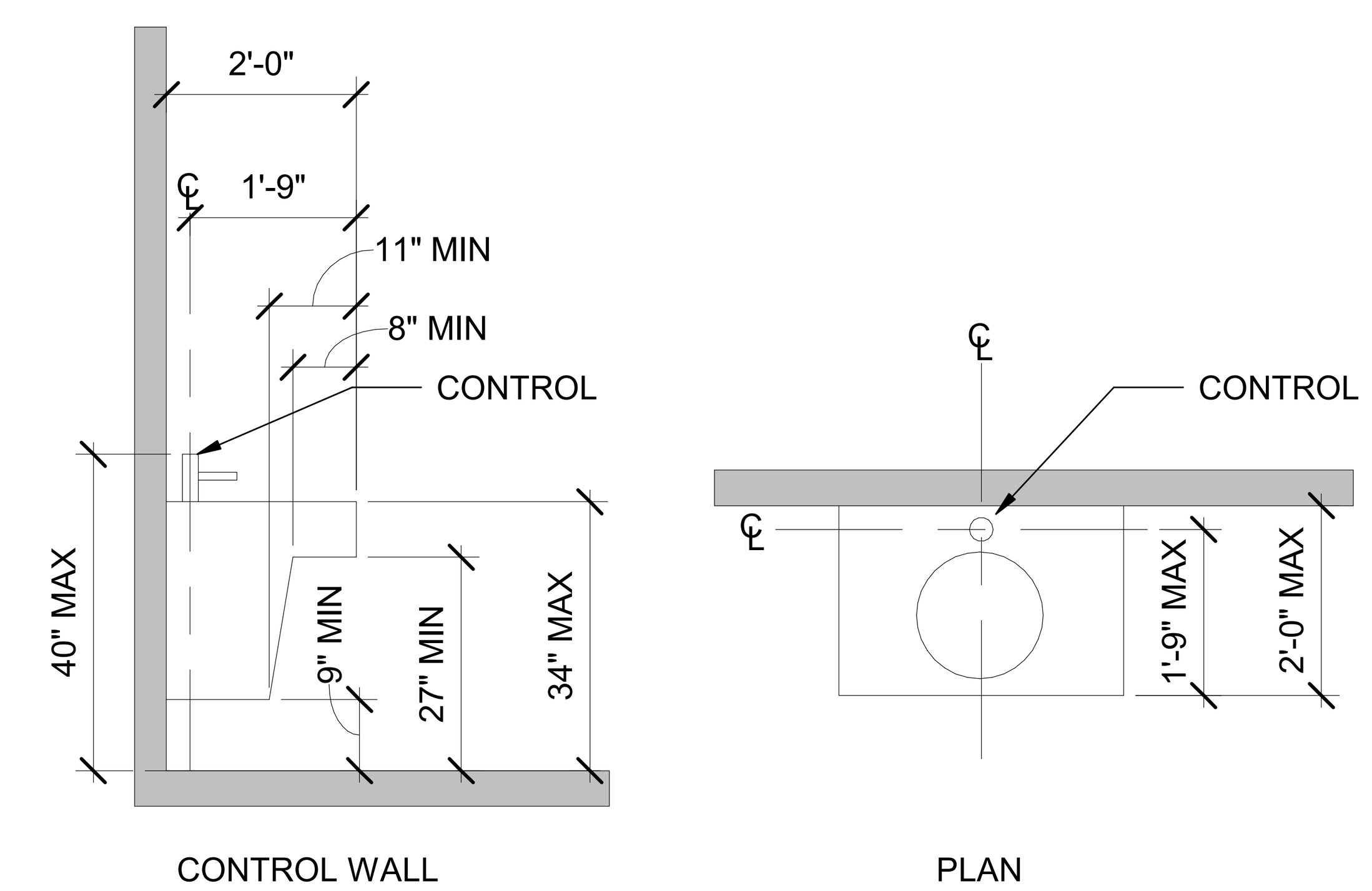


TOILET SEAT COVER DISPENSERS (TSCD) AT ACCESSIBLE WATER CLOSETS

1. MINIMUM AND MAXIMUM DIMENSIONS ARE FOR THE TOILET SEAT COVER OUTLET.
2. PROJECTING/SURFACE-MOUNTED ACCESSORIES MUST MAINTAIN MINIMUM CLEARANCES FROM ABOVE AND BELOW GRAB BARS.
3. COORDINATE LOCATION FROM BACK WALL WITH LOCATION OF TOILET TISSUE DISPENSERS AND SANITARY NAPKIN DISPOSAL WHERE APPLICABLE.

ACCESSIBLE WATER CLOSET MOUNTING DIAGRAMS

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



ACCESSIBLE SINK

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

ACCESSIBILITY REFERENCES

PER ICC A117.1 2017 LAWS:

404.2.4 THRESHOLDS
IF PROVIDED, THRESHOLDS AT DOORWAYS SHALL BE 1/2" MAXIUMUM IN HEIGHT. RAISED THRESHOLDS AND CHANGES I NLEVEL DOORWAYS SHALL COPY WITH SECTIONS 302 AND 303.

404.2.9 DOOR AND GATE SURFACES
FIRE DOORS AND GATES REQUIRED TO BE EQUIPPED WITH PANIC HARDWARE, BREAK AWAY FEATURES OR OTHER FACTOS REQUIRING HIGHER OPENING FORCE FOR SAFETY REASONS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE IN SCOPING PROVISIONS ADOPTED BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. FOR OTHER DOORS AND GATES, THE FORCE FOR PUSHING OR PULLING OPEN DOORS OR GATES SHALL BE AS FOLLOWS:
1. ... POUNDS MAXIMUM
2. SLIDING OR FOLDING DOOR: 5.0 POUNDS MAXIMUM

PRCTI20230098

606.6 EXPOSED PIPES AND SURFACES
WATER SUPPLY AND DRAINPIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES OR SINKS.

703.6.2 FINISH AND CONTRAST
SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUNDS SHALL HAVE A NONGLARE FINISH. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUNDS, WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND.

703.6.3 INTERNATIONAL SYMBOL OF ACCESSIBILITY
THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL COMPLY WITH FIGURE 703.6.3.1.

City of Puyallup
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Engineering	Public Works
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DESIGNER
MARSHALL DESIGN + MANAGEMENT
12400 SE 38TH #50766
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CLIENT AND PROJECT LOCATION
Benaroya
BENAROYA
SOUTH HILL BUSINESS AND TECHNOLOGY CENTER
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PROJECT
CENTRAL PIERCE FIRE AND RESCUE
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ISSUANCE

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KEY PLAN

SHEET TITLE

ACCESSIBILITY DIAGRAMS

SHEET NUMBER

A-002

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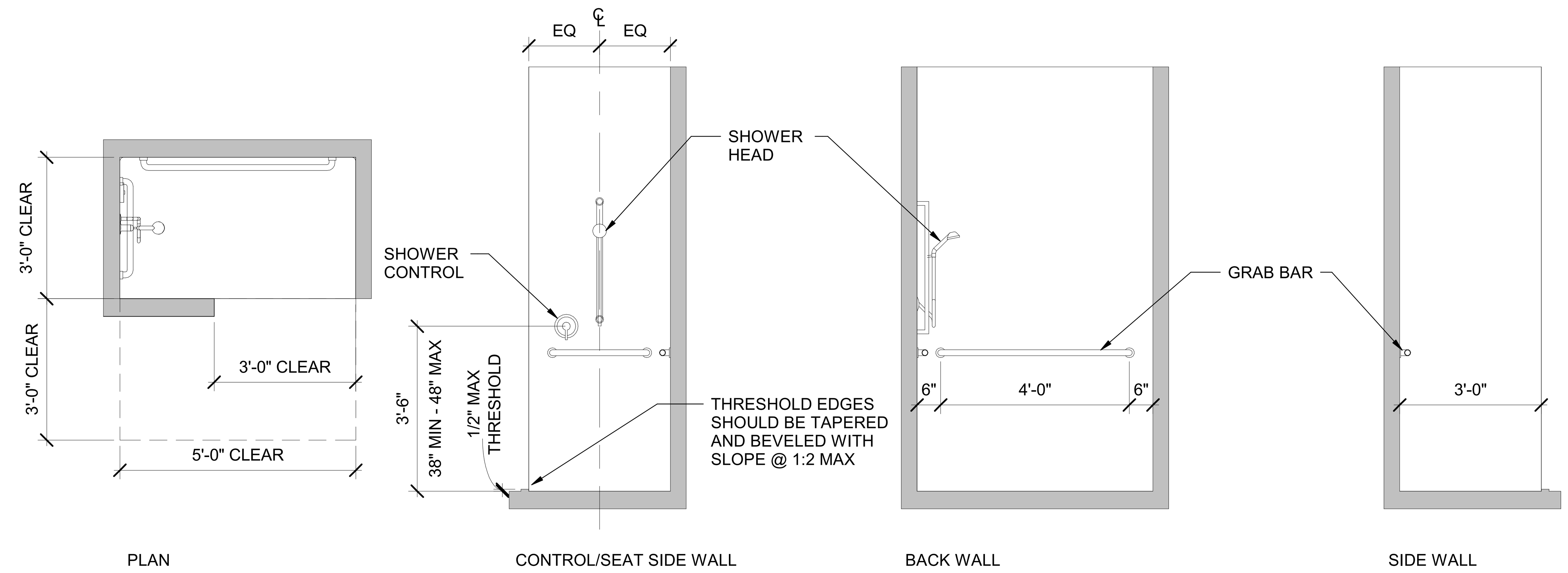

ACCESSIBLE ALTERNATE ROLL-IN SHOWER COMPARTMENT

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

ACCESSIBLE ROLL-IN SHOWER MUST MEET ALL ACCESSIBLE COMPONENTS OF SECTION 608.2.2 OF ICC A117.1-2009 SPECIFICALLY 608.4.3 FOR PROPOSED ALTERNATE ROLL-N SHOWERS.

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Engineering	Public Works
Fire	Traffic

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12400 SE 38TH #50766
BELLEVUE, WA 98105

CLIENT AND PROJECT LOCATION
Benaroya
BENAROYA
SOUTH HILL BUSINESS AND TECHNOLOGY CENTER
1015 39TH AVE SE
PUYALLUP, WA 98374

PROJECT
CENTRAL PIERCE FIRE AND RESCUE
1015 39TH AVE SE, SUITE 120
PUYALLUP, WA 98374

ARCHITECT
WJA DESIGN-COLLABORATIVE
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ACCESSIBILITY DIAGRAMS

SHEET NUMBER
A-003

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FIRST FLOOR PLAN

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

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Engineering	Public Works
Fire	Traffic

DESIGNER

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BELLEVUE, WA 98105

CLIENT AND PROJECT LOCATION

Benaroya

BENAROYA
SOUTH HILL BUSINESS AND TECHNOLOGY CENTER
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ARCHITECT

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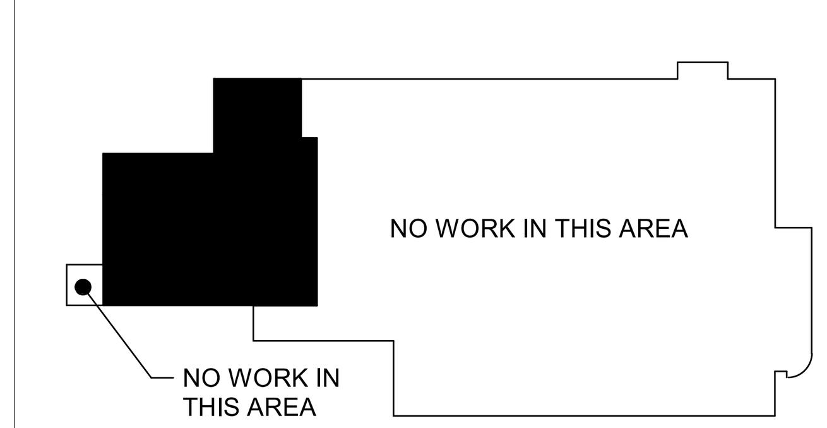

SHEET TITLE

FIRST FLOOR DEMOLITION PLAN

SHEET NUMBER

AD-101

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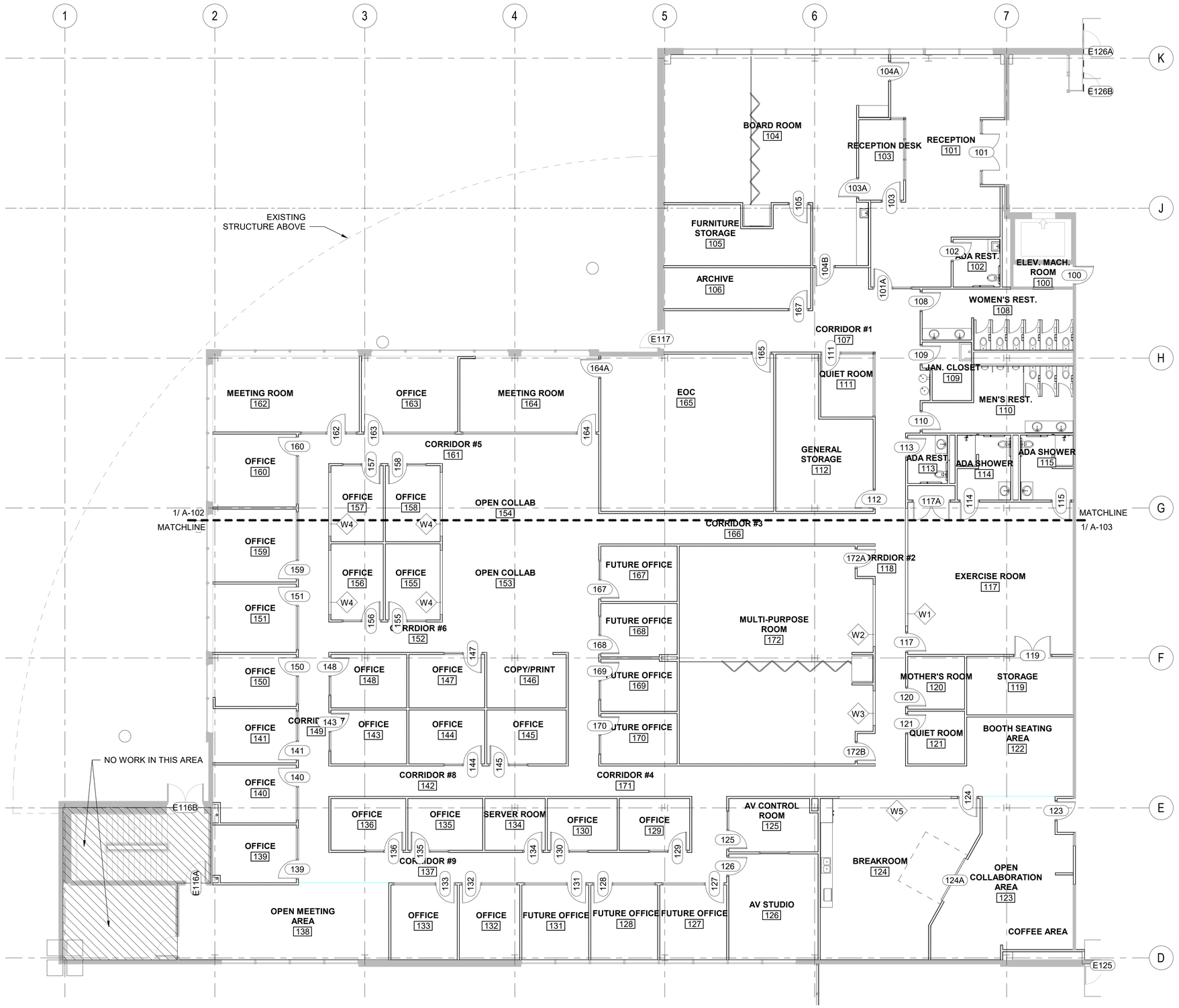

1 A-101 FIRST FLOOR PLAN
SCALE : 1/8" = 1'-0"

PRCTI20230098

City of Puyallup
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0 4' 8' 12' 24'
SCALE:1/8" = 1'-0"

DESIGNER
MARSHALL DESIGN + MANAGEMENT
12400 SE 38TH #50766
BELLEVUE, WA 98105

CLIENT AND PROJECT LOCATION
BENAROYA
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PROJECT
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KEY PLAN
NO WORK IN THIS AREA
NO WORK IN THIS AREA

SHEET TITLE
FIRST FLOOR PLAN

SHEET NUMBER
A-101

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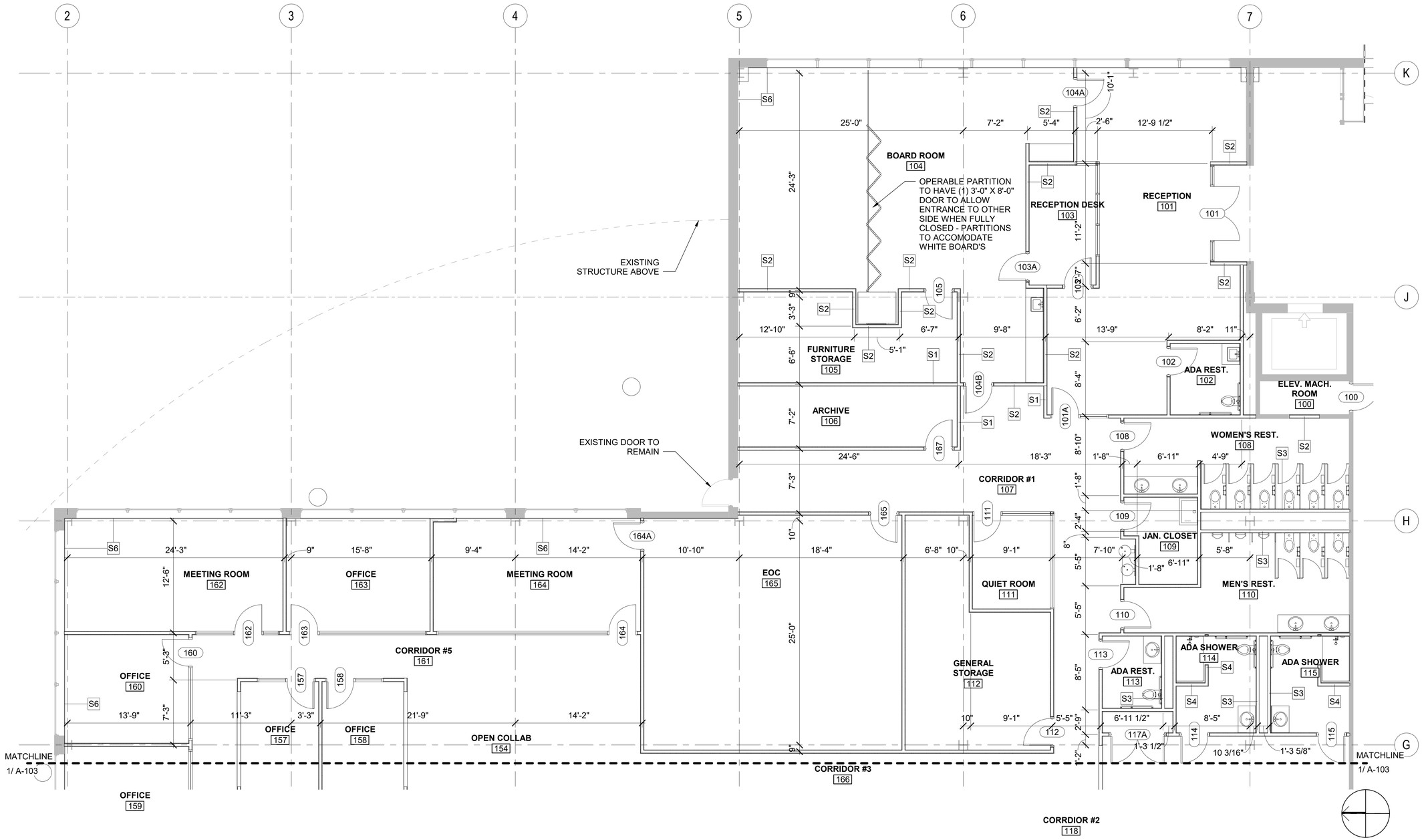
FLOOR PLAN GENERAL NOTES

1. REFERENCE SHEET A-001 FOR ABBREVIATIONS, SYMBOL LEGENDS, ADDITIONAL DRAWING CONVENTIONS AND GENERAL NOTES.
2. REFERENCE SHEET A-601 FOR WALL AND CEILING TYPES, SHEET A-602 FOR DOOR TYPES, AND SHEET A-603 FOR WINDOW TYPES.
3. PLAN VIEWS ARE CUT AT 4'-0" AFF.
4. ALL INTERIOR DOORS TO BE CENTERED IN ROOM OR 4" FROM ADJACENT FACE OF WALL AS SHOWN UNLESS OTHERWISE NOTED.
5. SEE SHEET A-002 AND A-003 FOR ACCESSIBLE DETAILS.
6. FURNITURE DASHED FOR REFERENCE ONLY.
7. ALL WALLS TO BE TYPE 'S1' UNO.
8. EXISTING EXTERIOR WALLS WITH EXPOSED INSULATION ARE TO BE COVERED WITH WALL TYPE 'S6'.
9. ALL PARTITION WALLS NOT EXTENDING TO DECK ARE TO TERMINATE 6" ABOVE CEILING HEIGHT UNO.



1 A-102 FIRST FLOOR PLAN
SCALE:3/16" = 1'-0"

PRCTI20230098

0 2' 4' 8' 16'

DESIGNER

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CLIENT AND PROJECT LOCATION

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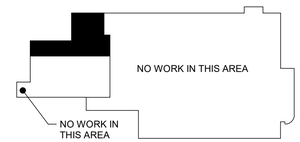

SHEET TITLE

ENLARGED EAST PLAN

SHEET NUMBER

A-102

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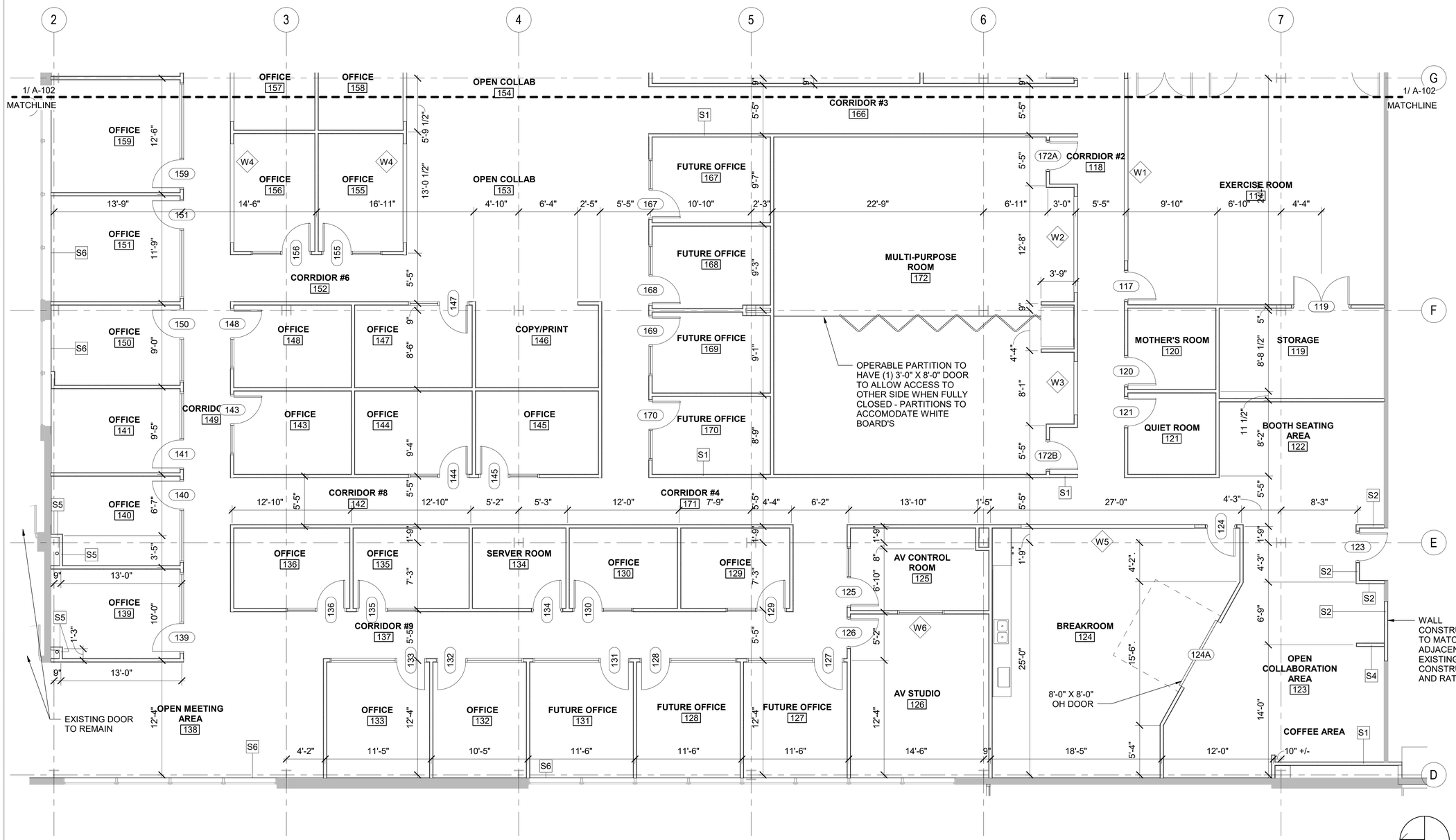
FLOOR PLAN GENERAL NOTES

1. REFERENCE SHEET A-001 FOR ABBREVIATIONS, SYMBOL LEGENDS, ADDITIONAL DRAWING CONVENTIONS AND GENERAL NOTES.
2. REFERENCE SHEET A-601 FOR WALL AND CEILING TYPES, SHEET A-602 FOR DOOR TYPES, AND SHEET A-603 FOR WINDOW TYPES.
3. PLAN VIEWS ARE CUT AT 4'-0" AFF.
4. ALL INTERIOR DOORS TO BE CENTERED IN ROOM OR 4" FROM ADJACENT FACE OF WALL AS SHOWN UNLESS OTHERWISE NOTED.
5. SEE SHEET A-002 AND A-003 FOR ACCESSIBLE DETAILS.
6. FURNITURE DASHED FOR REFERENCE ONLY.
7. ALL WALLS TO BE TYPE 'S1' UNO.
8. EXISTING EXTERIOR WALLS WITH EXPOSED INSULATION ARE TO BE COVERED WITH WALL TYPE 'S6'.
9. ALL PARTITION WALLS NOT EXTENDING TO DECK ARE TO TERMINATE 6" ABOVE CEILING HEIGHT UNO.



1 / A-103 FIRST FLOOR PLAN
SCALE : 3/16" = 1'-0"

PRCTI20230098

0 2' 4' 8' 16'
SCALE:3/16" = 1'-0"

DESIGNER
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BELLEVUE, WA 98105

CLIENT AND PROJECT LOCATION
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PUYALLUP, WA 98374

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KEY PLAN
NO WORK IN THIS AREA
NO WORK IN THIS AREA

SHEET TITLE
ENLARGED WEST PLAN

SHEET NUMBER
A-103

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1 / A-111 REFLECTED CEILING PLAN

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

PRCTI20230098

RCP NOTES

1. ALL ACOUSTICAL CEILINGS (CA-2) AT 10'-6" AFF UNO AND ARE TO BE CONTINUOUS THROUGHOUT THE SPACE.
2. AV ROOMS 125, 126, AND 172 ARE TO HAVE 3 1/2" SOUND ATTENUTATING BATT INSULATION ABOVE THE ENTIRE ROOM.
3. ALL PARTITION WALLS TO HAVE 2'-0" OF 3 1/2" SOUND ATTENTUATING BATT INSULATION ON EACH SIDE OF PARTITION.
4. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL CEILING INFORMATION.
5. SEE SHEET A-501 FOR TYPICAL SEISMIC CEILING DETAILS.
6. WHERE PORTIONS OF ACOUSTICAL CEILINGS ARE BROKEN BY FULL-HEIGHT WALLS TO STRUCTURE, PROVIDE NEW SEISMIC PERIMETER RETAINING CLIPS AND SEISMIC BRACING AS REQUIRED.
7. ALL PARTITION WALLS TO TERMINATE AT THE ACOUSTICAL CEILING UNO.
8. PARTITION WALLS AT GWB CEILINGS SHOULD EXTEND TO 11'-0" AFF.

RCP LEGEND

- WALL MOUNTED FIXTURE
- SURFACE MOUNT OR PENDANT LIGHT FIXTURE PER ELECTRICAL
- RECESSED LIGHT FIXTURE
- 2' X 2' LIGHT FIXTURE
- 2' X 4' LIGHT FIXTURE
- 2X4 ACT
- GWB CEILING
- ACOUSTICAL CEILING BAFFLES - MFR: ZINTRA ACOUSTICS PRODUCT: ZINTRA BAFFLES COLOR: COORDINATE WITH INTERIORS SIZE: 9.5"H
- 3 1/2" SOUND ATTENUATING BATT INSULATION ABOVE CEILING
- WALL WASHING LIGHT FIXTURE
- RECESSED OR PENDANT FIXTURE PER ELECTRICAL
- SPRINKLER HEAD (REFER TO FP DWGS)
- SMOKE DETECTOR (REFER TO FA DWGS)
- EXIT SIGN LOCATION (REFER TO FA DWGS)
- WALL TO DECK
- ACCESS PANEL
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- PENDANT LIGHT
- PENDANT LIGHT

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PLAN NORTH

0 4' 8' 12' 24'

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

DESIGNER

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BELLEVUE, WA 98105

CLIENT AND PROJECT LOCATION

Benaroya

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PROJECT

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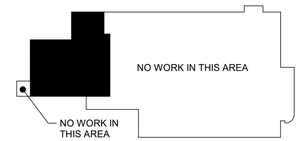

SHEET TITLE

REFLECTED CEILING PLAN

SHEET NUMBER

A-111

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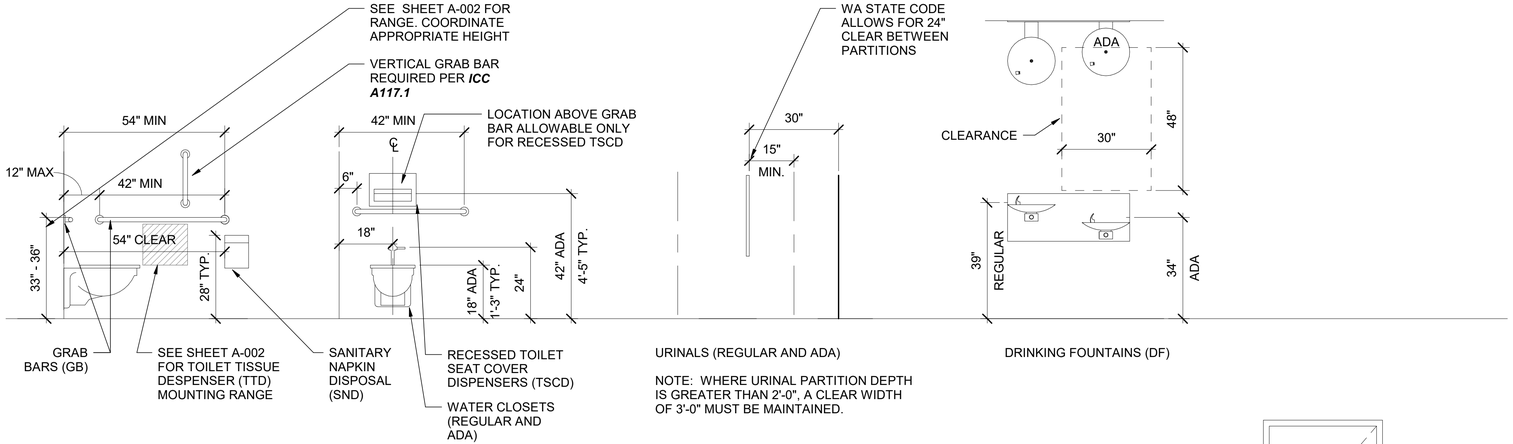

MOUNTING HEIGHTS

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

MOUNTING HEIGHTS GENERAL NOTES

1. ALL MOUNTING HEIGHTS APPLY THROUGHOUT UNO.
2. SEE SHEET A-002 FOR ACCESSIBILITY REQUIREMENTS
3. SEE SHEET A-002 FOR TOILET PAPER DESPENSER MOUNTING RANGE

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CLIENT AND PROJECT LOCATION

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KEY PLAN

SHEET TITLE

INTERIOR ELEVATIONS - MOUNTING HEIGHTS

SHEET NUMBER

A-421

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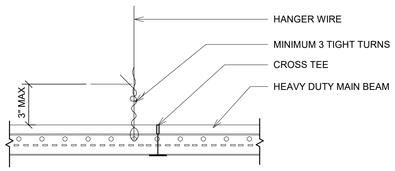
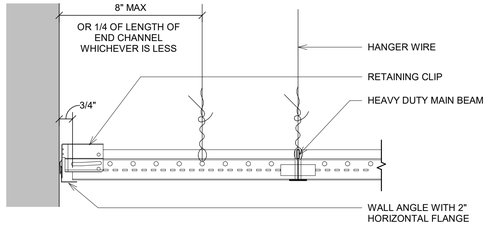
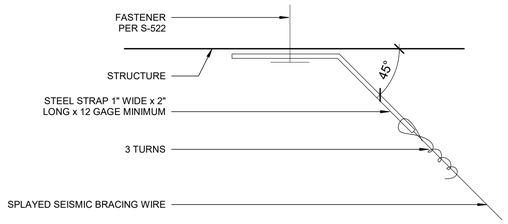


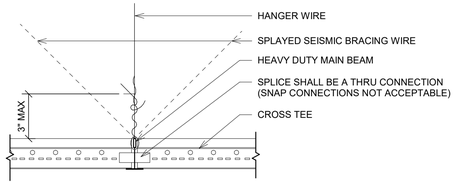
1 A-501 HANGER WIRE CONNECTION
SCALE : 3" = 1'-0"



2 A-501 RETAINING CLIP @ PERIMETER CROSS TEES
SCALE : 3" = 1'-0"



3 A-501 SPLAYED SEISMIC BRACING WIRE ATTACHMENT1
SCALE : 12" = 1'-0"



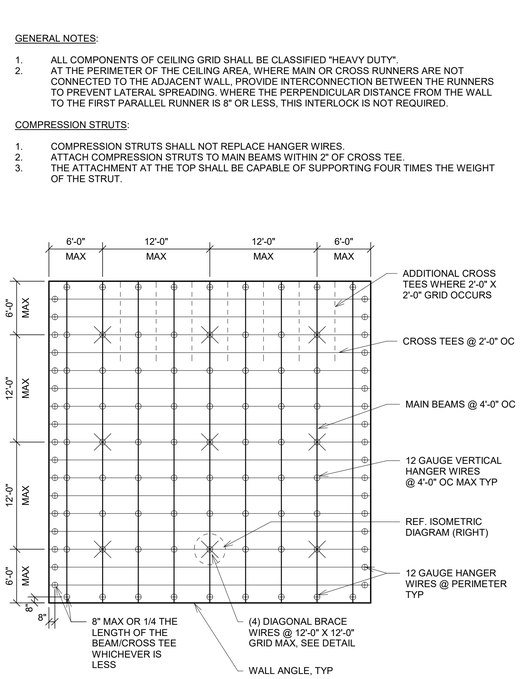
4 A-501 RUNNER SPLICE
SCALE : 3" = 1'-0"

GENERAL NOTES:

1. ALL COMPONENTS OF CEILING GRID SHALL BE CLASSIFIED "HEAVY DUTY".
2. AT THE PERIMETER OF THE CEILING AREA, WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS TO PREVENT LATERAL SPREADING. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 8" OR LESS, THIS INTERLOCK IS NOT REQUIRED.

COMPRESSION STRUTS:

1. COMPRESSION STRUTS SHALL NOT REPLACE HANGER WIRES.
2. ATTACH COMPRESSION STRUTS TO MAIN BEAMS WITHIN 2" OF CROSS TEE.
3. THE ATTACHMENT AT THE TOP SHALL BE CAPABLE OF SUPPORTING FOUR TIMES THE WEIGHT OF THE STRUT.

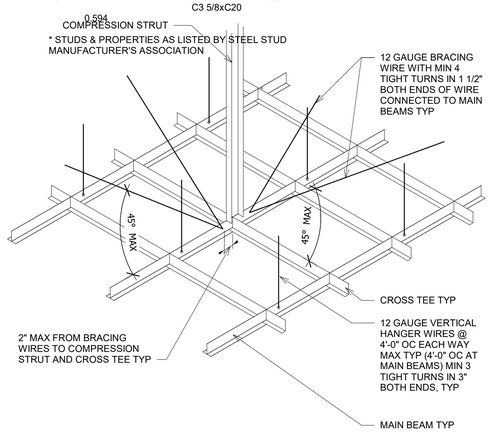


PLAN

COMPRESSION STRUT
STEEL SECTION WITH L/R RATION OF 200 MAXIMUM. ATTACH TO MAIN RUNNERS WITH 1/4" M.B. AND TO STRUCTURE. COMPRESSION STRUT SHALL NOT REPLACE HANGER WIRE

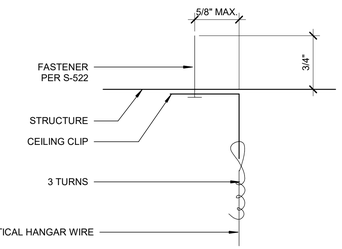
LENGTH	REQ	STRUT	R	SUPP.
4' IN	1 1/4"	158IU20	0.410	0.24
	1 5/8"	250IU20	0.399	
		350IU20	0.382	
6' IN		400IU20	0.380	0.36
8' IN		C3 5/8xC20	0.594	0.48
10'		C3 5/8xC20	0.594	0.60 IN

TYPICAL
12 GA. VERTICAL HANGAR WIRE @ 4'-0" EA. WAY W/ MIN. 3 TIGHT TURNS IN 1 1/2" BOTH ENDS OF WIRE

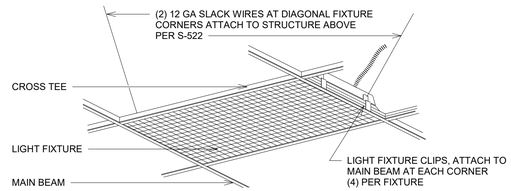


ISOMETRIC
(NOT TO SCALE)

5 A-501 ACOUSTICAL CEILING SUSPENSION SYSTEM
SCALE : 1/8" = 1'-0"



6 A-501 VERTICAL HANGAR WIRE ATTACHMENT
SCALE : 12" = 1'-0"



7 A-501 SEISMIC SUPPORT @ LIGHT FIXTURE
SCALE : 12" = 1'-0"

SUSPENDED CEILING NOTES:

NOTE: SEISMIC REQUIREMENTS FOR SUSPENDED CEILINGS. REFERENCE 2018 INTERNATIONAL BUILDING CODE SECTION 808. ACOUSTICAL TILE OR LAY-IN PANEL CEILINGS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ASTM C 635, C 636 AND ASTM E 580.

A. A HEAVY DUTY T-BAR GRID SYSTEM SHALL BE USED.

B. THE WIDTH OF THE PERIMETER CLOSURE ANGLE SHALL BE NOT LESS THAN 2". WHERE PERIMETER SUPPORTING CLIPS ARE USED, THEY SHALL BE QUALIFIED IN ACCORDANCE WITH APPROVED TEST CRITERIA. IN EACH ORTHOGONAL HORIZONTAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE A 3/4" CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON A CLOSURE ANGLE.

C. FOR CEILING AREAS EXCEEDING 1000 SQUARE FEET, HORIZONTAL RESTRAINT OF THE CEILING TO THE STRUCTURAL SYSTEM SHALL BE PROVIDED. THE TRIBUTARY AREAS OF THE HORIZONTAL RESTRAINTS SHALL BE APPROXIMATELY EQUAL. RIGID BRACES ARE PERMITTED TO BE USED INSTEAD OF DIAGONAL SPLAY WIRES. BRACES AND ATTACHMENTS TO THE STRUCTURAL SYSTEM ABOVE SHALL BE ADEQUATE TO LIMIT RELATIVE LATERAL DEFLECTIONS AT POINT OF ATTACHMENT OF CEILING GRID TO LESS THAN 1/4" FOR THE LOADS PRESCRIBED IN ASCE 7-10 SECTION 13.3.1

D. FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC SEPARATION JOINT OR FULL HEIGHT PARTITION THAT BREAKS THE CEILING UP INTO AREAS NOT EXCEEDING 2500 SQUARE FEET, EACH WITH A RATIO OF THE LONG TO SHORT DIMENSION LESS THAN OR EQUAL TO 4, SHALL BE PROVIDED UNLESS STRUCTURAL ANALYSES ARE PERFORMED OF THE CEILING BRACING SYSTEM FOR THE PRESCRIBED SEISMIC FORCES THAT DEMONSTRATE CEILING SYSTEM PENETRATIONS AND CLOSURE ANGLES PROVIDE SUFFICIENT CLEARANCE TO ACCOMMODATE THE ANTICIPATED LATERAL DISPLACEMENT. EACH AREA SHALL BE PROVIDED WITH CLOSURE ANGLES OR CHANNELS IN ACCORDANCE WITH ITEM B AND HORIZONTAL RESTRAINTS OR BRACING.

E. PENETRATIONS IN SUSPENDED CEILINGS SHALL HAVE A 2" OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1" IN ALL HORIZONTAL DIRECTIONS.

F. CHANGES IN CEILING PLAN ELEVATION SHALL BE PROVIDED WITH POSITIVE BRACING.

G. CABLE TRAYS AND ELECTRICAL CONDUITS SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING.

H. SUSPENDED CEILINGS SHALL BE SUBJECT TO THE SPECIAL INSPECTION REQUIREMENTS OF ASCE 7-16 SECTION 11A.1.3.9 WHICH REQUIRE PERIODIC SPECIAL INSPECTIONS DURING THE ANCHORAGE OF SUSPENDED CEILINGS.

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JAMES A. HARRIS
STATE OF WASHINGTON

ISSUANCE

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KEY PLAN

SHEET TITLE
SEISMIC CEILING DETAILS

SHEET NUMBER
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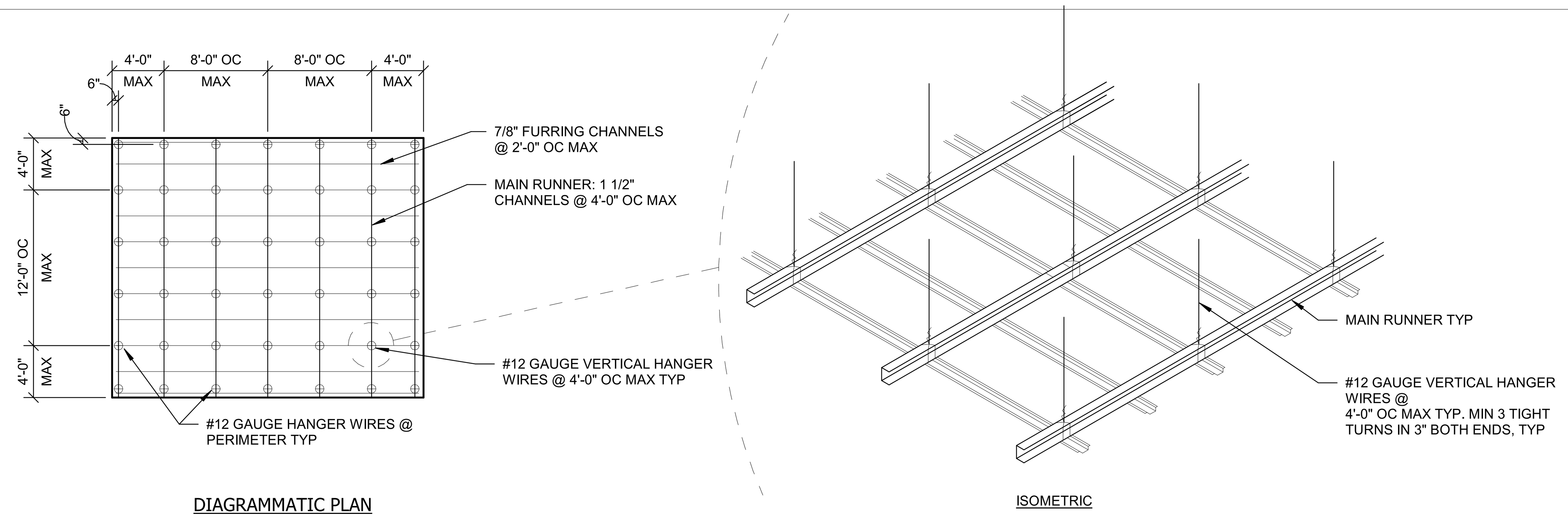
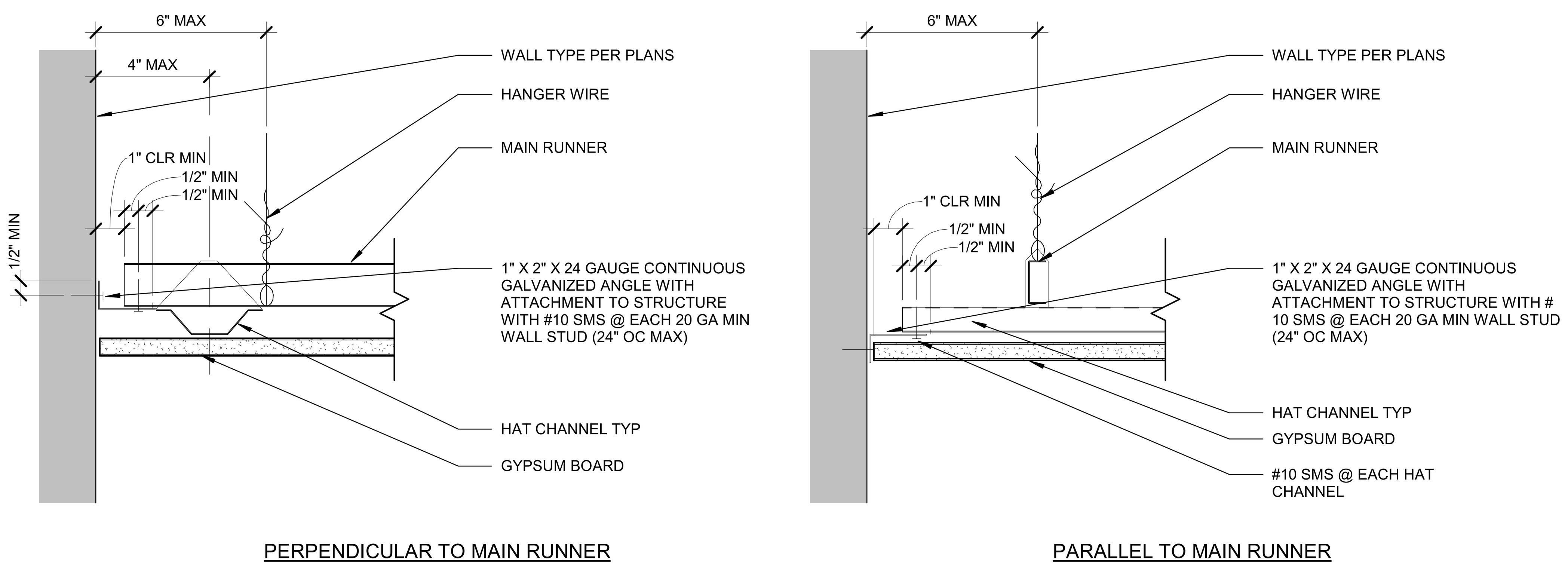


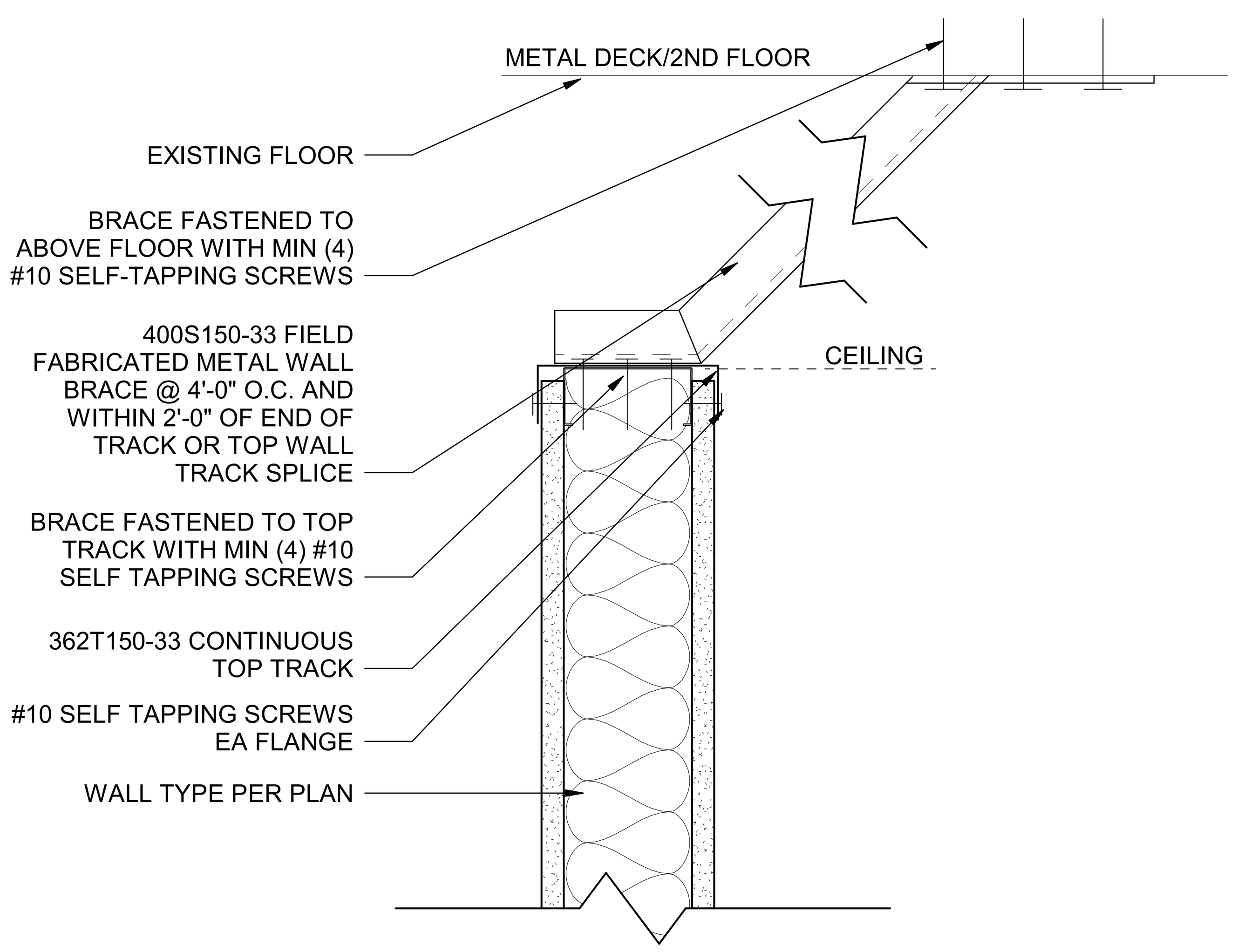
1 A-502 GYPSUM BOARD CEILING SUSPENDED SYSTEM

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



2 A-502 GYPSUM CEILING PERIMETER (ATTACHED WALL)

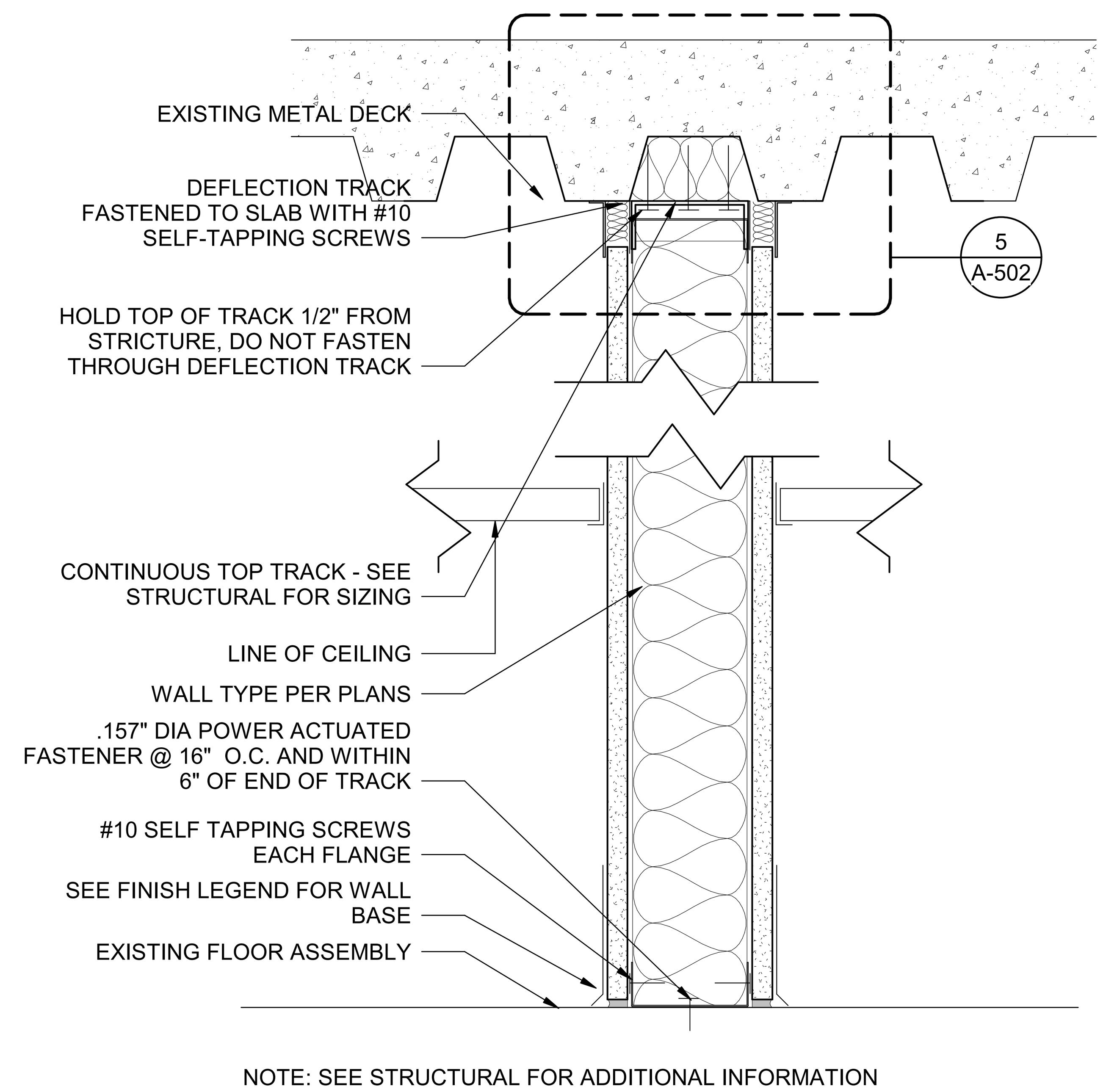
SCALE : 3" = 1'-0"



NOTE: SEE STRUCTURAL FOR ADDITIONAL INFORMATION AND SIZING OF STUDS/BRACING

3 A-502 BRACING DETAIL @ PARTIAL HEIGHT WALLS

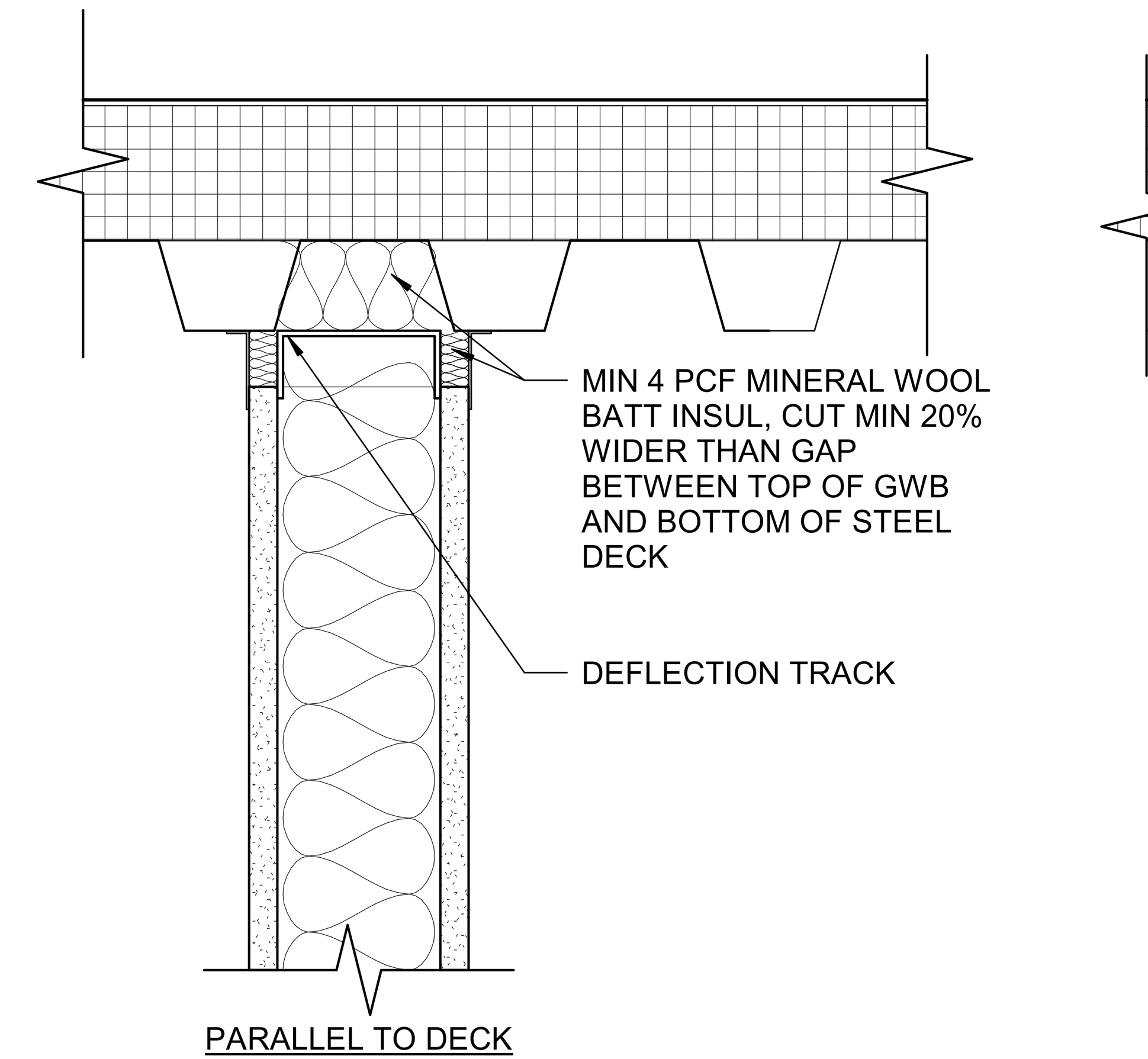
SCALE : 3" = 1'-0"



NOTE: SEE STRUCTURAL FOR ADDITIONAL INFORMATION AND SIZING OF STUDS/BRACING

4 A-502 TYPICAL FRAMING DETAIL

SCALE : 3" = 1'-0"



5 A-502 FIRE RATED PARTITION HEAD

SCALE : 3" = 1'-0"

SUSPENDED GYPSUM BOARD NOTES:
GYPSUM BOARD CEILING SUSPENSION CONVENTIONAL CONSTRUCTION - ONE LAYER

GENERAL

GYPSUM BOARD SUSPENDED CEILING SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH PROVISIONS OF THE IBC 2018 EDITION AND INTERPRETATIONS MAY BE USED AS ADDITIONAL GUIDELINES

1. MATERIALS:

   MATERIALS SHALL COMPLY WITH APPLICABLE IBC, ICC AND ASTM STANDARDS. GYPSUM BOARD IS EITHER ONE LAYER OF 1/2" OR 5/8" IN THICKNESS.

2. DESIGN:

   THESE REQUIREMENTS SHALL ONLY APPLY TO A CEILING THAT IS NOT ACCESSIBLE, HAS A SINGLE LAYER OF GYPSUM BOARD NOT EXCEEDING 5/8" IN THICKNESS, AND HAS A TOTAL CEILING WEIGHT NOT TO EXCEED 4 POUNDS PER SQUARE FOOT (PSF). ACCESSIBLE CEILINGS SHALL BE DESIGNED TO MEET THE APPLICABLE REQUIREMENTS OF THE SBC 2012 EDITION.

3. DETAILS ON CONSTRUCTION:

   3.1 GENERAL: GYPSUM BOARD CEILINGS SHALL NOT SUPPORT BUILDING COMPONENTS OTHER THAN HVAC DIFFUSERS OR LIGHT FIXTURES.

   3.2 VERTICAL SUPPORT SYSTEM: ANY VARIATIONS OF MAIN RUNNER SIZES, SPACINGS AND SPANS LISTED IN ASTM C754 ARE ACCEPTABLE PROVIDED THE MAIN RUNNER SPACING DOES NOT EXCEED 4'-0" OC AND THE CEILING AREA SUPPORTED BY A HANGER WIRE DOES NOT EXCEED 16 SQUARE FEET. OTHER COMPONENTS SHALL MEET OR EXCEED THE FOLLOWING:

   3.2.1 MAIN RUNNERS SHALL BE SPACED NO MORE THAN 4'-0" OC WITH HANGER WIRE SPACING NOT TO EXCEED 4'-0" OC AND NO MORE THAN 6" FROM EACH END OF THE MAIN RUNNER.

   3.2.2 VERTICAL WIRE HANGERS SHALL BE #12 GAUGE AND GALVANIZED, SOFT-ANNEALED STEEL.

   3.2.3 CROSS FURRING SHALL BE 7/8" GALVANIZED STEEL HAT SECTIONS, DESIGNATED 087F125-18, AT 2'-0" OC MAXIMUM.

   3.3 CONNECTING HANGER WIRES, STEEL FRAMING AND FURRING:

   3.3.1 HANGER WIRES SHALL BE SADDLE-TIED TO THE MAIN RUNNERS.

   3.3.2 CROSS FURRING SHALL BE SADDLE-TIED TO THE MAIN RUNNERS WITH ONE STRAND OF #16 GAUGE OR TWO STRANDS OF #18 GAUGE TIE WIRE.

   3.3.3 MAIN RUNNERS SHALL BE SPLICED BY LAPPING AND INTERLOCKING FLANGES AND TYING NEAR EACH END WITH DOUBLE LOOPS OF #16 GAUGE WIRE. THE LAP SHALL BE 12" IN LENGTH MINIMUM.

   3.3.4 CROSS FURRING SHALL BE SPLICED BY LAPPING AND INTERLOCKING THE PIECES AND TYING NEAR EACH END WITH DOUBLE LOOPS OF #16 GAUGE WIRE. THE LAP SHALL BE 8" IN LENGTH MINIMUM.

4. LIGHT FIXTURES AND MECHANICAL SERVICES:

   4.1 ALL RECESSED OR DROP-IN LIGHT FIXTURES, AS WELL AS CEILING-MOUNTED MECHANICAL AIR TERMINALS AND SERVICES, SHALL BE SUPPORTED DIRECTLY BY THE MAIN RUNNERS OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY THE MAIN RUNNERS AND POSITIVELY ATTACHED WITH SCREWS OR OTHER APPROVED CONNECTORS.

   4.2 SURFACE-MOUNTED FIXTURES SHALL BE ATTACHED TO A MAIN RUNNER WITH A POSITIVE CLAMPING DEVICE MADE OF MATERIAL WITH A MINIMUM OF #14 GAUGE. ROTATIONAL SPRING CLAMPS DO NOT COMPLY.

City of Puyallup
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Building	Planning
Engineering	Public Works
Fire	Traffic

PRCTI20230098

0 3" 6" 1'
SCALE:3" = 1'-0"

DESIGNER

MARSHALL DESIGN + MANAGEMENT
12400 SE 38TH #50766
BELLEVUE, WA 98105

CLIENT AND PROJECT LOCATION

Benaroya

BENAROYA
SOUTH HILL BUSINESS AND TECHNOLOGY CENTER
1015 39TH AVE SE
PUYALLUP, WA 98374

PROJECT

CENTRAL PIERCE FIRE AND RESCUE
1015 39TH AVE SE, SUITE 120
PUYALLUP, WA 98374

ARCHITECT

wja design collaborative

WJA DESIGN-COLLABORATIVE
617 WESTERN AVE
SEATTLE, WA 98104

STAMP

REGISTERED ARCHITECT
STATE OF WASHINGTON

ISSUANCE

ISSUE DATE	01/30/23
DRAWN BY:	WJA
CHECKED BY:	WJA

REVISION LIST

NO.	DATE	DESCRIPTION	BY

KEY PLAN

SHEET TITLE

SEISMIC CEILING DETAILS

SHEET NUMBER

A-502

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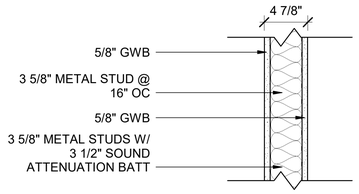
WALL TYPES LEGEND

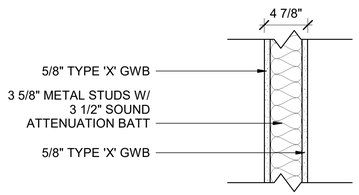
S1
Interior



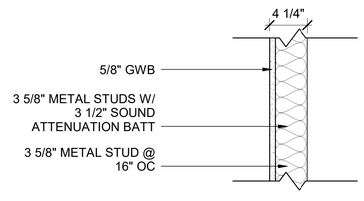
S2
Interior

1-HR
UL 419

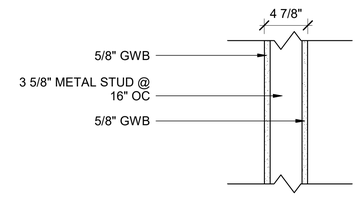
STC 45



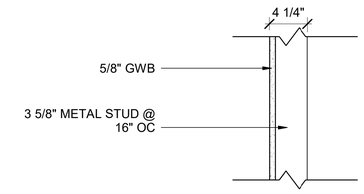
S3
Interior



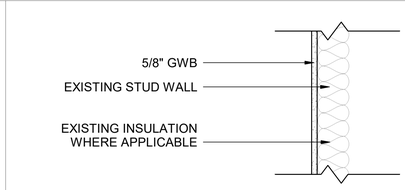
S4
Interior



S5
Interior

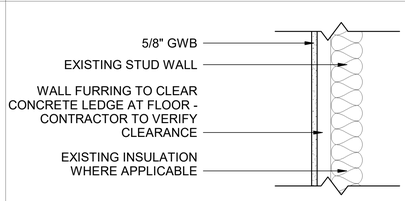


S6
Interior



GWB TO FULLY COVER THE EXISTING INSULATION UP TO DECK ABOVE.

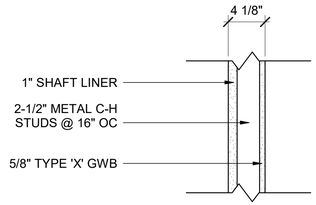
S7
Interior



GWB TO FULLY COVER THE EXISTING INSULATION UP TO DECK ABOVE.

S8
Interior Shaft

1-HOUR RATED PER UL U415



GENERAL NOTES

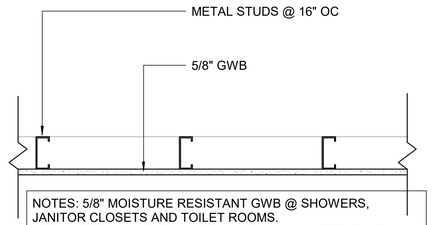
1. PROVIDE 5/8" WATER RESISTIVE AT ALL TOILET ROOMS, RESTROOMS, SHOWER ROOMS.
2. REFER TO CODE PLAN AND RCP FOR LOCATIONS OF FIRE-RATED OR INTERIOR WALLS WHICH TERMINATE AT UNDERSIDE OF METAL DECK/STRUCTURE.
3. PROVIDED DEFLECTION TRACKS AT ALL INTERIOR PARTITIONS THAT TERMINATE AT THE UNDERSIDE OF METAL DECK/STRUCTURE.
4. PROVIDE GWB CONTROL JOINTS AT LOCATIONS/WALLS WITH AREAS GREATER THAN 20'-0" X 20'-0".
5. REFER TO SHEET G-002 FOR ALL FIRE RATED WALLS
6. REFER TO SHEETS A-101 FOR LOCATIONS WALL TYPES.

GENERAL CEILING NOTES

1. PROVIDE 5/8" WATER RESISTIVE AT ALL TOILET ROOMS, RESTROOMS, SHOWER ROOMS.
2. FOR CEILINGS GREATER THAN 1,000 SF, REFERENCE SEISMIC BRACING DETAILS ON SHEET A-501, -502 AND VIA MANUFACTURER
3. CEILING AREAS 1,000 SF OR LESS SHALL BE EXEMPT FROM LARGE FORCE BRACING REQUIREMENTS.
4. FOR CEILING AREAS EXCEEDING 2,500 SF, A SEISMIC SEPARATION JOINT OR FULL HEIGHT WALL PARTITION THAT BREAKS THE CEILING SHALL BE PROVIDED UNLESS ANALYSES ARE PERFORMED OF THE CEILINGS BRACING SYSTEM, CLOSURE ANGLES AND PENETRATIONS TO PROVIDE SUFFICIENT CLEARANCE.
5. REFER TO MANUFACTURERS DETAILS AND RECOMMENDATIONS FOR ADDITIONAL INFORMATION NOT SEEN IN THESE DOCUMENTS.
6. SEE A-100 SERIES PLANS FOR ASSEMBLY TYPES AND HEIGHTS

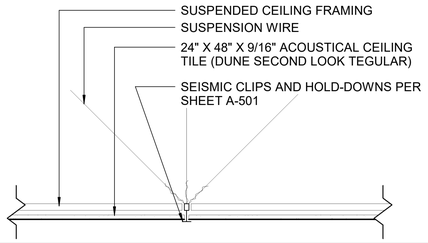
CEILING TYPES

CA-1
FRAMED GWB CEILING

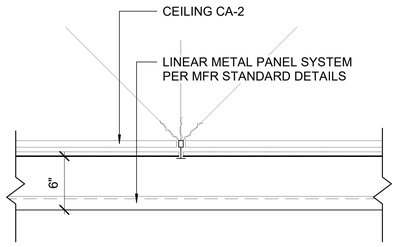


NOTES: 5/8" MOISTURE RESISTANT GWB @ SHOWERS, JANITOR CLOSETS AND TOILET ROOMS.
SEE SHEET A-111 FOR LOCATION OF SOUND ATTENTUATING BATT INSULATION OVER FULL CEILING AREAS.

CA-2
ACT CEILING

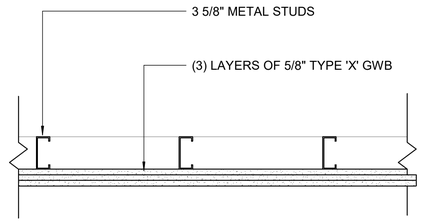


CA-3
LINEAR METAL CEILING



CA-4
FRAMED GWB CEILING

1-HOUR RATED DESIGN PER UL DESIGN W415



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STAMP

REGISTERED ARCHITECT
STATE OF WASHINGTON

ISSUANCE

ISSUE DATE	01/30/23
DRAWN BY:	WJA
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REVISION LIST

NO.	DATE	DESCRIPTION	BY

KEY PLAN

SHEET TITLE

WALL AND CEILING TYPES LEGEND

SHEET NUMBER

A-601

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PM 4:42:57 1/30/2023

Door Schedule												
		SIZE		DOOR PANEL			DOOR FRAME					
Mark	Width	Height	Thickness	Door Type	Door Material	Door Finish	Frame Type	Frame Material	Frame Finish	Glass Type	Door Fire Rating	Hardware
100	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
101	6'-0"	8'-0"	1 3/4"	D	ALUM	ANODIZED		ALUM		GL-3	45 MIN	HW-05
101A	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
102	3'-0"	8'-0"	1 3/4"	A	WD	WD	1	HM	PT	-		HW-03
103	3'-0"	8'-0"	1 3/4"	A	WD	WD	1	HM	PT	-		HW-03
103A	3'-0"	8'-0"	1 3/4"	A	WD	WD	1	HM	PT	-	45 MIN	HW-03
104A	3'-0"	8'-0"	1 3/4"	B	WD	WD	1	HM	PT	GL-2	45 MIN	HW-03
104B	3'-0"	8'-0"	1 3/4"	B	WD	WD	1	HM	PT	GL-2	45 MIN	HW-02
105	3'-0"	8'-0"	1 3/4"	A	WD	WD	1	HM	PT	-		HW-04
108	3'-0"	8'-0"	1 3/4"	A	WD	WD	1	HM	PT	-		HW-02
109	3'-0"	8'-0"	1 3/4"	A	WD	WD		HM	PT	-		HW-04
110	3'-0"	8'-0"	1 3/4"	A	WD	WD	1	HM	PT	-		HW-02
111	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
112	3'-0"	8'-0"	1 3/4"	A	WD	WD	1	HM	PT	-		HW-04
113	3'-0"	8'-0"	1 3/4"	A	WD	WD	1	HM	PT	-		HW-03
114	3'-0"	8'-0"	1 3/4"	A	WD	WD	1	HM	PT	-		HW-03
115	3'-0"	8'-0"	1 3/4"	A	WD	WD	1	HM	PT	-		HW-03
117	3'-0"	8'-0"	1 3/4"	B	WD	WD	1	HM	PT	GL-1		HW-01
117A	6'-0"	8'-0"	1 3/4"	E	WD	WD	1	HM	PT			HW-04
119	6'-0"	8'-0"	1 3/4"	E	WD	WD	1	HM	PT			HW-04
120	3'-0"	8'-0"	1 3/4"	A	WD	WD	1	HM	PT	-		HW-03
121	3'-0"	8'-0"	1 3/4"	A	WD	WD	1	HM	PT	-		HW-03
123	3'-0"	8'-0"	1 3/4"	A	WD	WD	1	HM	PT	-	45 MIN	HW-06
124	3'-0"	8'-0"	1 3/4"	A	WD	WD	1	HM	PT	-		HW-01
124A	8'-0"	8'-0"	2"	F	ALUM	ANODIZED	-	-	-	GL-1		PER MFR
125	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
126	3'-0"	8'-0"	1 3/4"	A	WD	WD	1	HM	PT	-		HW-03
127	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
128	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
129	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
130	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
131	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
132	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
133	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
134	3'-0"	8'-0"	1 3/4"	A	WD	WD	1	HM	PT	-		HW-03
135	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
136	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
139	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
140	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
141	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
143	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
144	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
145	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
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148	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
150	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
151	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
155	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
156	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
157	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
158	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
159	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
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164A	3'-0"	8'-0"	1 3/4"	A	WD	WD	1	HM	PT	-		HW-03
165	3'-0"	8'-0"	1 3/4"	B	WD	WD	1	HM	PT	GL-1		HW-04
167	3'-0"	8'-0"	1 3/4"	A	WD	WD	1	HM	PT	-		HW-06
167	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
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169	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
170	3'-0"	8'-0"	1 3/4"	C	ALUM	ANODIZED	2	ALUM	ANODIZED	GL-1		HW-03
172A	3'-0"	8'-0"	1 3/4"	B	WD	WD	1	HM	PT	GL-2	45 MIN	HW-01
172B	3'-0"	8'-0"	1 3/4"	B	WD	WD	1	HM	PT	GL-2	45 MIN	HW-01

HARDWARE TYPES

HW-01 PASSAGE FUNCTION WITH LEVER AND LATCH

- MORTISE LEVER AND LATCH SET
- HINGES, BUTTS, SILENCERS, AND DOOR STOPS AS REQUIRED
- CLOSER

HW-02 PASSAGE FUNCTION WITHOUT LEVER AND LATCH

- PUSH PLATE AT PUSH SIDE
- PULL LEVER AT PULL SIDE
- OVERHEAD CLOSER
- HINGES, BUTTS, SILENCERS, AND DOOR STOPS AS REQUIRED

HW-03 OFFICE FUNCTION

- MORTISE LEVER AND LOCK SET WITH THUMB TURN
- HINGES, BUTTS, SILENCERS, AND DOOR STOPS AS REQUIRED

HW-04 STOREROOM FUNCTION

- MORTISE LEVER AND LOCK SET
- HINGES, BUTTS, SILENCERS, AND DOOR STOPS AS REQUIRED

HW-05 SECURE ENTRY FUNCTION WITH CARD READER AT DOUBLE DOOR

- ELECTRIC MORTISE LEVER AND LOCK SET WITH TRANSFER HINGE
- OVERHEAD CLOSER
- CARD READER PER ELECTRICAL DRAWINGS
- HINGES, BUTTS, SILENCERS, AND DOOR STOPS AS REQUIRED
- CONNECTION TO RECEPTION DESK 103
- DOOR STOP, FLOOR TYPE
- ELECTRONIC ACCESS CONTROL BY OTHERS
- PULL HANDLE-PUSH BAR SET

HW-06 EXIT FUNCTION

- EXIT HARDWARE AND PUSH BAR
- ASTRAGAL
- OVERHEAD CLOSER
- HINGES, BUTTS, SILENCERS, AND DOOR STOPS AS REQUIRED

NOTES:

- DOOR HARDWARE TO BE COORDINATED WITH BUILDING STANDARDS
- SEE DOOR SCHEDULE FOR FIRE RATING
- SEE ELECTRICAL DRAWINGS FOR CARD READER COORDINATION
- DOOR HARDWARE TO BE COORDINATED WITH DOOR HARDWARE SPECIALIST

DOOR GENERAL NOTES

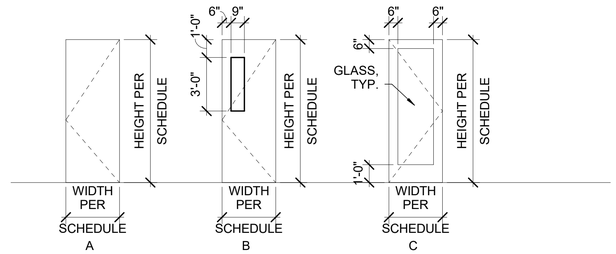
1. REFERENCE SHEET A-001 FOR ABBREVIATIONS, SYMBOLS, LEGENDS, ADDITIONAL DRAWING CONVENTIONS AND GENERAL NOTES.
2. FIELD VERIFY ROUGH OPENINGS.
3. EGRESS DOORS SHALL BE READILY OPERABLE FROM EGRESS SIDE WITHOUT USE OF KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
4. ALL HM DOORS SHALL HAVE INSULATED CORE (U-VALUE 0.37 AT GLASS DOORS, U-VALUE 0.48 AT OPAQUE DOORS.
5. ALL EXTERIOR SWING DOORS SHALL HAVE A MAXIMUM AIR RATE OF 0.20 CFM/SQ FT PER NFRC 400 OR AAMA/WDMA/CSA101/I.S.2/A440

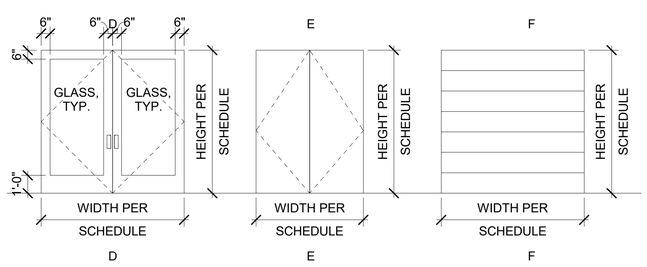
GLAZING TYPES

GL-1 1/4" CLEAR GLASS

GL-2 1/4" INTUMESCENT LAMINATED PANE (1HR RATED)

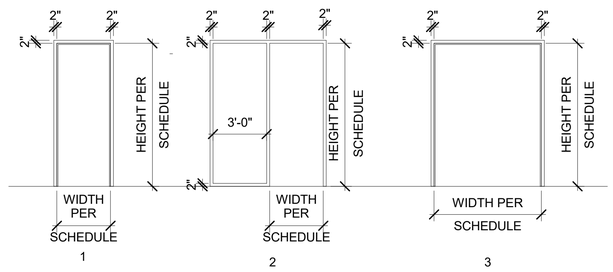
GL-3 1/4" TEMPERED SAFETY GLASS





DOOR PANEL LEGEND

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



DOOR FRAME LEGEND

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

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

PRCTI20230098

PM 1:07:0 2/22/2023

DESIGNER

MARSHALL DESIGN + MANAGEMENT
12400 SE 38TH #50766
BELLEVUE, WA 98105

CLIENT AND PROJECT LOCATION

Benaroya

BENAROYA
SOUTH HILL BUSINESS AND TECHNOLOGY CENTER
1015 39TH AVE SE
PUYALLUP, WA 98374

PROJECT

CENTRAL PIERCE FIRE AND RESCUE
1015 39TH AVE SE, SUITE 120
PUYALLUP, WA 98374

ARCHITECT

WJA DESIGN-COLLABORATIVE
617 WESTERN AVE
SEATTLE, WA 98104

STAMP

REGISTERED ARCHITECT
STATE OF WASHINGTON

ISSUANCE

ISSUE DATE	01/30/23
DRAWN BY:	WJA
CHECKED BY:	WJA

REVISION LIST

NO.	DATE	DESCRIPTION	BY

KEY PLAN

SHEET TITLE

DOOR SCHEDULE AND LEGEND

SHEET NUMBER

A-602

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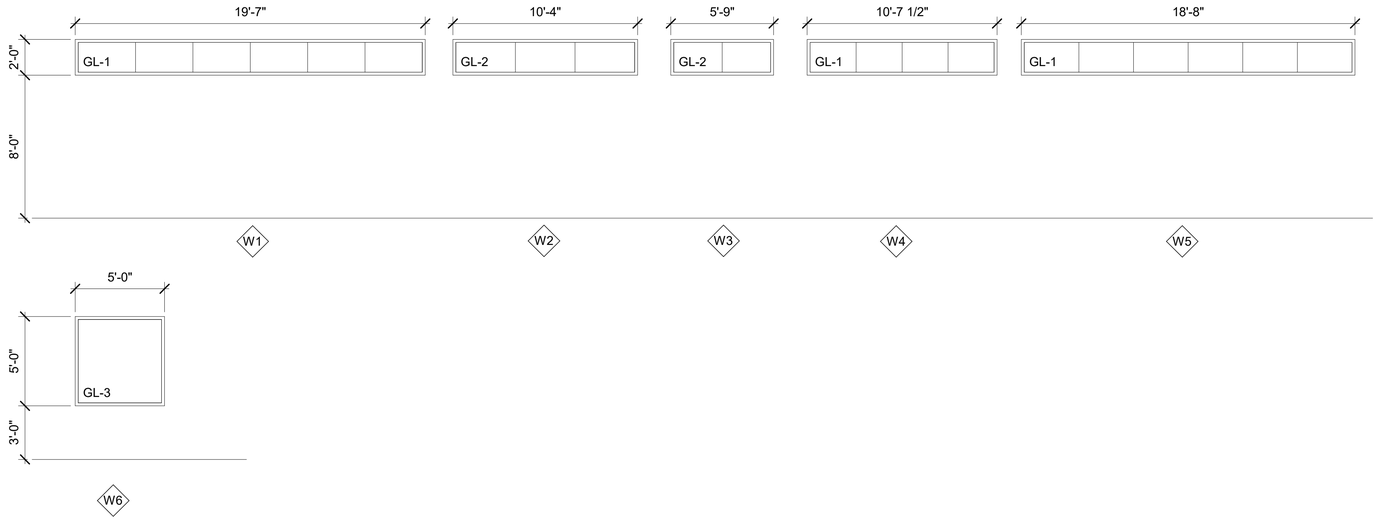

WINDOW TYPES

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

WINDOW LEGEND GENERAL NOTES

1. FIELD VERIFY ALL ROUGH OPENINGS.
2. BUTT GLAZING, TYP. AT CLERESTORY WINDOWS

GLAZING TYPES

GL-1	1/4" CLEAR GLASS
GL-2	1/4" INTUMESCENT LAMINATED PANE (1HR RATED)
GL-3	1/4" TEMPERED SAFETY GLASS

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

0 4' 8' 12' 24'

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

PRCTI20230098

Rel:12SEP2022083

DESIGNER

MARSHALL DESIGN + MANAGEMENT
12400 SE 38TH #50766
BELLEVUE, WA 98105

CLIENT AND PROJECT LOCATION

BENAROYA
SOUTH HILL BUSINESS AND TECHNOLOGY CENTER
1015 39TH AVE SE
PUYALLUP, WA 98374

PROJECT

CENTRAL PIERCE FIRE AND RESCUE
1015 39TH AVE SE, SUITE 120
PUYALLUP, WA 98374

ARCHITECT

WJA DESIGN-COLLABORATIVE
617 WESTERN AVE
SEATTLE, WA 98104

STAMP

ISSUANCE

ISSUE DATE	01/30/2023
DRAWN BY:	WJA
CHECKED BY:	WJA

REVISION LIST

NO.	DATE	DESCRIPTION	BY

KEY PLAN

SHEET TITLE

WINDOW SCHEDULE AND LEGEND

SHEET NUMBER

A-603

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CENTRAL PIERCE FIRE AND RESCUE BUILDING

1015 39TH AVE SE SUITE 120 PUYALLUP, WA 98374

FIRE ALARM SYSTEM

SYMBOL LEGEND

SYMBOL	QTY	DESCRIPTION	MOUNTING REQUIREMENTS	SUPPLIER	PART NUMBER
	75	INTELLIGENT PHOTO SMOKE DETECTOR	4 SQUARE DEEP w/ 3" ROUND RING	NOTIFIER	FSP-951 w/ B300-6
IDC	1	INTELLIGENT OUTPUT CONTROL MODULE	4 SQUARE DEEP	NOTIFIER	FCM-1
VP	1	120VAC VOLTAGE PROTECTOR for CONTROL PANELS w/ LOCKOUT & LABELS	MOUNTS IN 1/2" OR 3/4" CABINET KNOCKOUT	SPACEAGE	E120V-GT
PSE-10	1	10.0 AMPS, 120VAC REMOTE CHARGER POWER SUPPLY IN LOCKABLE, METAL ENCLOSURE. BLACK	PART INCLUDE BACKBOX; SURFACE MOUNT	NOTIFIER	PSE-10
(1)	27	CEILING HORN w/ STROBE: WHITE SEE DEVICE DESIGNATION FOR STROBE cd SETTING	4 SQUARE DEEP w/ EXT RING; CENTER ON CEILING TILE	SYSTEM SENSOR	PC2WL
(1)	12	CEILING STROBE: WHITE SEE DEVICE DESIGNATION FOR STROBE cd SETTING	4 SQUARE DEEP; CENTER ON CEILING TILE	SYSTEM SENSOR	SCWL

NOTES:

1- DEVICE SUBSCRIPT: NW=NEW RR=REMOVE & RELOCATE EX=EXISTING TO REMAIN AC=ABOVE CEILING RB=RELAY BASE WP=WATERPROOF WG=WIRE GUARD

2- CABLEING SHOWN IS FOR CIRCUIT REFERENCE ONLY AND DOES NOT INTENDED TO INDICATE THE EXACT PATHWAY.

3- DEVICES SHOWN ON DRAWINGS IN GRAY SCALE ARE EXISTING DEVICES AND MAY NOT BE INCLUDED IN THIS SYMBOL LEGEND UNLESS NOTED.

4- SET HORN/STROBE DECIBLE SETTING TO LOW FROM FACTORY SETTING OF HIGH, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

5- ALL DEVICES WITH A WP SUBSCRIPT WILL REQUIRE THE USE OF A OUTDOOR OR WP BACKBOX.

SCOPE OF WORK & DESIGN BASIS

•

DESIGN CRITERIA APPLIED CODES AND STANDARDS:
NFPA 72 2019 EDITION
IBC 2018 EDITION WITH WASHINGTON AMENDMENTS
NFPA 70 (NEC) 2017 EDITION

DOCUMENTS RECEIVED BYADT:

SHEETS:
DATE:

CIRCUIT WIRING LEGEND

see NFPA 72-13 12.7

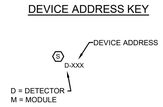
- SLC1 — SLC (SIGNALING LINE CIRCUIT) WIRE #18/2 AWG - FPLP POWER LIMITED CLASS 'A1'
- NAC1 — NAC (NOTIFICATION ANNUNCIATION CIRCUIT) STROBE WIRE #14/2 AWG - FPLP POWER LIMITED CLASS 'B1'
- SBUS — SBUS (SBUS COMMUNICATIONS) WIRE #18/4 AWG - FPLP POWER LIMITED CLASS 'B1'
- PWR — POWER WIRE WIRE #16/2 AWG - FPLP POWER LIMITED CLASS 'B1'
- SPK — SPEAKER POWER WIRE WIRE #16/2 AWG - FPLP POWER LIMITED CLASS 'B1'
- TRP — TRIP WIRE WIRE #18/2 AWG - FPLP POWER LIMITED CLASS 'D1'

ABBREVIATIONS

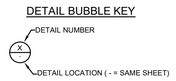
AC - ABOVE CEILING
AFF - ABOVE FINISHED FLOOR
ADA - AMERICAN DISABILITIES ACT
AHJ - AUTHORITY HAVING JURISDICTION
AHU - AIR HANDLING UNIT (THIRD PARTY)
ASD - ASPIRATION SMOKE DETECTION
CD - CANDELA (EX. 15CD)
CIS - COMMON INTELLIGIBILITY SCALE
DH - DOOR HOLDER (THIRD PARTY UNO)
EF - EXHAUST FAN (THIRD PARTY)
ELEV - ELEVATOR (THIRD PARTY)
EOL - END OF LINE
EPF - ELEVATOR PRESSURIZATION FAN (THIRD PARTY)
FA - FIRE ALARM
FAA- FIRE ALARM ANNUNCIATOR
FACP - FIRE ALARM CONTROL PANEL
FACU - FIRE ALARM CONTROL UNIT
FATC - FIRE ALARM TERMINAL CABINET
FBO - FURNISHED BY OTHERS
FCU - FAN COIL UNIT (THIRD PARTY)
FFT - FIREFIGHTER'S TELEPHONE
FM - FACTORY MUTUAL
FSD - FIRE SMOKE DAMPER (THIRD PARTY)
HVAC - HEATING, VENTILATION, AND AIR CONDITIONING (THIRD PARTY)
LA - LOW AIR (THIRD PARTY)
N/A - NOT APPLICABLE
NAC - NOTIFICATION APPLIANCE CIRCUIT
NFPA - NATIONAL FIRE PROTECTION ASSOCIATION
NIC - NOT IN CONTRACT
NTS - NOT TO SCALE
PS - POWER SUPPLY
RTU - ROOF TOP UNIT (THIRD PARTY)
SLC - SIGNALING LINE CIRCUIT
SPF - STAIR PRESSURIZATION FAN (THIRD PARTY)
STI - SPEECH TRANSMISSION INDEX
TYP - TYPICAL
UNO - UNLESS NOTED OTHERWISE
VAV - VARIABLE AIR VOLUME (THIRD PARTY)
VFD - VARIABLE FREQUENCY DRIVE (THIRD PARTY)
W/ - WITH
W - WATT (EX. 1/2W)
WP - WEATHERPROOF
XP - EXPLOSION PROOF

FLOOR PLAN KEY

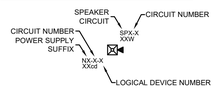
DEVICE ADDRESS KEY



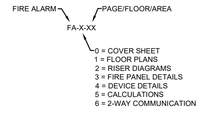
DETAIL BUBBLE KEY



NOTIFICATION DEVICE CIRCUIT KEY



DRAWING SHEET INDEX KEY



INSTALLATION & GENERAL WIRING NOTES:

GENERAL NOTES:

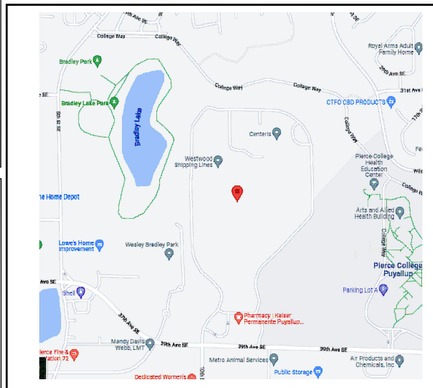
1. INSTALLATION SHALL BE ACCOMPLISHED IN STRICT COMPLIANCE WITH NFPA, LOCAL AND STATE AHJ's, NEC AND CONTRACT DRAWINGS
2. WIRE ROUTING IS DIAGRAMMATIC IN NATURE ONLY AND NOT INTENDED FOR ACTUAL CONDUIT ROUTING.
3. ALL CONDUIT SIZING AND ROUTING BY ELECTRICAL CONTRACTOR PER NEC AND AHJ.
4. VERIFY ALL LOCATIONS OF DEVICES WITH ELECTRICAL/ARCHITECTURAL PLANS. SCALE AND PLACE ALL DEVICE PER ELECTRICAL/ARCHITECTURAL PLANS.
5. ALL CIRCUITS WILL BE PROPERLY TAGGED AND TESTED FOR OPENS, SHORTS, GROUNDS AND PROPER "END-OF-LINE" RESISTANCE. EACH CIRCUITS METER READING MUST BE DOCUMENTED AND PRESENTED TO ADT COMMERCIAL (RHF&S) FIELD TECHNICIAN UPON ARRIVAL ONSITE FOR STARTUP & CHECKOUT.
6. AS-BUILTS:
   - 6.1. A SET OF INSTALLATION AS-BUILT DRAWINGS SHOWING ACTUAL CONDUIT AND CONDUCTOR ROUTES SHALL BE KEPT BY PROJECT FOREMAN FOR USE BY ADT COMMERCIAL (RHF&S) TECHNICIAN.
   - 6.2. AS-BUILTS SHALL BE KEPT ORDERLY AND BE CLEARLY MARKED WITH DIFFERENT COLOR PENS FOR EACH CIRCUIT AND/OR CIRCUIT TYPE. AS-BUILTS MUST INDICATE CHANGES TO THE FINAL DEVICE INSTALLED LOCATIONS IF NOT INSTALLED AT LOCATION SHOWN ON DESIGN DOCUMENTS.
   - 6.3. AS-BUILT REDLINES NOT PROVIDING THIS INFORMATION WILL BE RETURNED TO THE INSTALLATION CONTRACTOR FOR CORRECTION. ADT COMMERCIAL (RHF&S) IS NOT RESPONSIBLE FOR THESE DELAYS.
7. AGREEMENT AND CONFIRMATION OF ALL MILESTONE EVENTS WILL BE MADE WITH ADT COMMERCIAL (RHF&S) PROJECT MANAGER.
8. ALL ADT COMMERCIAL (RHF&S) FIELD SERVICES MUST BE SCHEDULED WITH ADT COMMERCIAL (RHF&S) PROJECT MANAGER WITH A MINIMUM OF 14 WORKING DAYS ADVANCE NOTICE.
9. DO NOT INSTALL LINE VOLTAGE IN SAME CONDUIT AS POWER LIMITED CABLES.

FIRE ALARM SPECIFIC NOTES:

1. SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 36" OF ANY AIR DIFFUSER.
2. 2016 NFPA 72-17.7.1.11 REQUIRES THAT SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER FINAL CONSTRUCTION CLEAN-UP.
   - 2.1. ANY SMOKE DETECTORS THAT HAVE BEEN INSTALLED PRIOR TO CLEAN-UP MUST BE CLEANED OR REPLACED AND WILL BE INVOICED ON A T&M BASIS.
3. WALL MOUNTED NOTIFICATION DEVICES BACKBOX BETWEEN A MINIMUM OF 80" AFF TO A MAXIMUM OF 96" AFF.
   - 3.1. DEVICES THAT ARE UNABLE TO BE MOUNTED WITHIN THAT RANGE MUST BE VERIFIED BY ADT COMMERCIAL (RHF&S) PRIOR TO INSTALLATION.
   - 3.2. SEE FLOOR PLANS FOR CANDELA RATING OF EACH DEVICE INSTALLED.
4. ALL MANUAL PULL STATIONS ARE TO BE MOUNTED AT A HEIGHT NO GREATER THAN 48" TO TOP AND NO LOWER THAN 36" TO BOTTOM (PER ADA REQUIREMENTS).
5. FIELD VERIFY ALL SPRINKLER MONITORING DEVICES WITH FIRE PROTECTION CONTRACTOR
6. FIELD VERIFY ALL HVAC, FAN CONTROL, FIRE/SMOKE DAMPERS AND DUCT DETECTORS LOCATIONS WITH MECHANICAL CONTRACTOR
7. FACP SHALL NOT BE ENERGIZED WITHOUT THE PRESENCE OF ADT COMMERCIAL (RHF&S) TECHNICIANS.
8. NO TAPPING OF SIGNALING OR INITIATING ZONE CIRCUITS ARE ALLOWED. T-TAPPING OF STYLE 4 ADDRESSABLE CIRCUITS IS ALLOWED PROVIDING A SPLICE IS PROFESSIONALLY INSTALLED, POLARITY IS OBSERVED AND SHIELDS ARE CONTINUOUS AND FREE OF GROUNDS. SHIELDS MUST BE TERMINATED AT FACP ONLY.
   - 8.1. CABLE SHIELDS SHALL BE SPLICED TOGETHER AT EVERY JUNCTION BETWEEN THE FACP AND THE LAST DEVICE ON EACH CABLE RUN. SHIELDS AND OTHER FIRE ALARM CONDUCTORS (EXCEPT POWER GROUNDS) SHALL BE INSULATED AND COMPLETELY FREE FROM CONDUIT OR EARTH GROUNDS. SHIELDS WILL BE TIES TO GROUND ONLY AT THE FACP BY THE ADT COMMERCIAL (RHF&S) FIELD TECHNICIAN.
9. THE SYSTEM SHALL BE MONITORED BY A U.L. LISTED MONITORING STATION BEFORE AHJ TEST.
10. AS-BUILTS ARE REQUIRED AT TIME OF AHJ ACCEPTANCE. ADT COMMERCIAL (RHF&S) REQUIRED ELECTRICAL RED LINES WITHIN 2 WEEKS PRIOR TO AHJ TESTS.
    - 10.1. EACH CIRCUIT (SLC, NAC OR POWER) MUST BE CLEARLY IDENTIFIED WITH A DISTINCT COLOR
    - 10.2. EACH NAC CIRCUIT MUST BE CLEARLY MARKED AS TO WHICH DEVICES ARE ON EACH CIRCUIT AND IN THE ORDER THE DEVICES ARE WIRED TO COMPLETE THE CIRCUIT.

PROJECT CONTACT INFORMATION:

CUSTOMER:			
NAME:	EVERGREEN POWER SYSTEM INC		
ADDRESS:	3623 E MARGINAL WAY S		
	SEATTLE WA 98134		
CONTACT:	MICHAEL MILLS		
PHONE:	206-423-2421		
FAX:			
EMAIL:	mmills@evergreenps.net		
FIRE ALARM / LIFE SAFETY PROVIDER:			
NAME:	ADT COMMERCIAL (SEATTLE)		
ADDRESS:	21312 30TH DRIVE SE, SUITE #103		
	BOTHELL, WA 98021		
PHONE:	425-486-2600		
FAX:	425-486-2611		
PROJECT MANAGER:	DOUG MORGAN	dougmorgan@adt.com	EXT:
DESIGNER:	DIANA CLARK	dianaclark@adt.com	EXT:



VICINITY MAP

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

PRCTI20230098

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ADT Commercial
21312 30TH DRIVE SE
BOTHELL, WA 98021
P: 425-486-2600 F: 425-486-2611
WA LIC# ADTCOCL801UQ

1015 39TH AVE SE
PUYALLUP, WA 98374
FIRE ALARM SYSTEM

REVISIONS

NO.	DATE	REVISION
0	01-25-2023 BY: DC	FOR PERMIT
1	- BY: ___	-
2	- BY: ___	-
3	- BY: ___	-
4	- BY: ___	-
5	- BY: ___	-
6	- BY: ___	-
7	- BY: ___	-

This fire alarm shop drawing was prepared for equipment application only. The information contained herein is intended to aid in the installation of this system. No design changes have been made to the engineer of record's contract documents.

Dated: 01-25-2023

Signed:

First M. Last, ET/SET
NICET #: 95136
NICET LEVEL IV
FIRE ALARM SYSTEMS

CODES ADOPTED BY LOCAL AHJ

2013 NFPA 72 NATIONAL FIRE ALARM CODE
2018 INTERNATIONAL BUILDING CODE
2015 NFPA 101 LIFE SAFETY CODE

BUILDING INFORMATION

ITEM1
ITEM2
ITEM3

PREPARED BY:	DC
CHECKED BY:	DK
PROJECT MANAGER:	DM
DATE:	01/25/2023
PROJECT NO:	ADT-281800808
TITLE:	SYMBOLS & LEGENDS
SHEET:	FA-0.0

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INITIATING WIRING

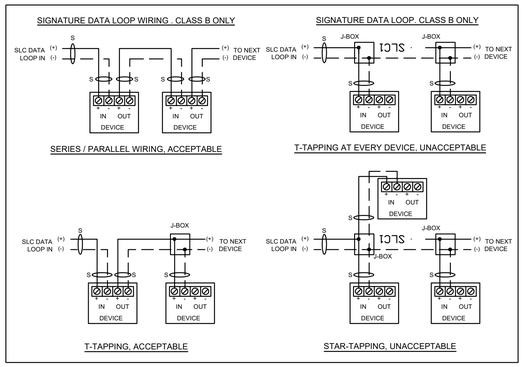
SIGNATURE LOOP WIRING LIMITATIONS:

SIGNATURE DUAL DRIVER CONTROLLER MODULES SUPPORTS UP TO 250 INTELLIGENT SIGNATURE DETECTORS AND 250 INTELLIGENT SIGNATURE MODULES
WIRE LENGTH LIMITATIONS:

NON-TWISTED, NON-SHIELDED WIRE
16AWG - 20pf/FT & 4.02 OHMS/1000 FEET
18AWG - 20pf/FT & 6.38 OHMS/1000 FEET
DETECTORS ONLY 16AWG - 125 DETECTORS - 9,275'
MODULES ONLY 16AWG - 125 MODULES - 7,921'
DETECTORS AND MODULES 16AWG - 125 OF EACH - 3,608'
DETECTORS ONLY 18AWG - 125 DETECTORS - 5,839'
MODULES ONLY 18AWG - 125 MODULES - 4,986'
DETECTORS AND MODULES 18AWG - 125 OF EACH - 2,271'

TWISTED PAIR, NON-SHIELDED WIRE
16AWG - 36pf/FT & 4.02 OHMS/1000 FEET
18AWG - 25pf/FT & 6.38 OHMS/1000 FEET
DETECTORS ONLY 16AWG - 125 DETECTORS - 9,275'
MODULES ONLY 16AWG - 125 MODULES - 7,921'
DETECTORS AND MODULES 16AWG - 125 OF EACH - 3,608'
DETECTORS ONLY 18AWG - 125 DETECTORS - 5,839'
MODULES ONLY 18AWG - 125 MODULES - 4,986'
DETECTORS AND MODULES 18AWG - 125 OF EACH - 2,271'

TWISTED PAIR, SHIELDED WIRE
16AWG - 82pf/FT & 4.02 OHMS/1000 FEET
18AWG - 58pf/FT & 6.38 OHMS/1000 FEET
DETECTORS ONLY 16AWG - 125 DETECTORS - 6,098'
MODULES ONLY 16AWG - 125 MODULES - 6,098'
DETECTORS AND MODULES 16AWG - 125 OF EACH - 3,608'
DETECTORS ONLY 18AWG - 125 DETECTORS - 5,839'
MODULES ONLY 18AWG - 125 MODULES - 4,986'
DETECTORS AND MODULES 18AWG - 125 OF EACH - 2,271'



RECORD DRAWINGS

AS-BUILT / RECORD DRAWING REQUIREMENTS:

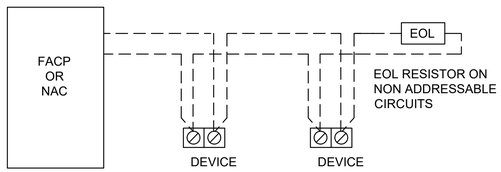
THE FOLLOWING INFORMATION SHOULD BE RECORDED ON A SEPARATE SET OF DRAWINGS FOR EACH PROJECT:

1. ANY CHANGES IN THE LOCATION OF ANY ASSOCIATED FIRE ALARM OR INTERFACE EQUIPMENT. CONTROL PANELS, ANNUNCIATORS, DETECTORS, CONTROL RELAYS, INPUT AND OUTPUT MODULES, TERMINAL CABINETS, ETC.
2. ANY CHANGES TO CIRCUIT WIRING. THIS INCLUDES DELETION OR ADDITIONAL WIRING RUNS. ANY RE-ROUTING OF CIRCUIT WIRING. ANY ADDITIONS OR DELETIONS TO THE NUMBER, LOCATION, AND ORDER OF DEVICE WIRING ON A CIRCUIT.
3. ADDRESSES AND/ OR LABELS FOR ALL ADDRESSABLE DEVICES.
4. CANDELA SETTINGS OF ALL VISUAL NOTIFICATION DEVICES.
5. WATTAGE TAP SETTINGS OF ALL SPEAKER NOTIFICATION DEVICES.

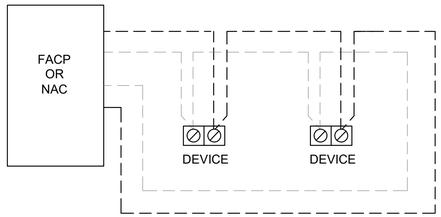
ANY CHANGES SHALL BE DISCUSSED WITH CONVERGINT PROJECT MANAGER TO ENSURE SYSTEM AND CODE PARAMETERS ARE MET. CONVERGINT SHALL NOT BE HELD ACCOUNTABLE FOR CHANGES MADE WITHOUT APPROVAL.

THIS INFORMATION SHALL BE NEAT AND LEGIBLE WHEN PRESENTED TO THE TECHNICIAN AT THE CONCLUSION OF THE PROJECT. PLEASE NOTE CONTACT INFORMATION ON DRAWINGS FOR INDIVIDUALS WITH FAMILIARITY OF INSTALLATION IN THE EVENT QUESTIONS ARISE DURING THE CLOSEOUT PROCESS.

CLASS A OR B NOTIFICATION WIRING



CLASS B, STYLE 4 WIRING



CLASS A, STYLE 6 WIRING

SEPARATION OF CLASS A CIRCUITS - INSTALLATION EXCEPTIONS:

CLASS A OUTGOING AND RETURN CONDUCTORS, EXITING AND RETURNING TO THE CONTROL PANEL, ARE TO BE ROUTED SEPARATELY. THE MINIMUM RECOMMENDED SEPARATION IS 1 FT. VERTICALLY AND 4 FT. HORIZONTALLY. THE FOLLOWING EXCEPTIONS STILL DO NOT ELIMINATE THE 2ND PAIR OF WIRES. THEY ALLOW YOU TO USE A SINGLE RACEWAY AND ELIMINATE THE SEPARATION FOR THESE CONDITIONS.

1. WHEN MAXIMUM CABLE, ENCLOSURE, OR RACEWAY IS LESS THAN 10 FEET. NO LIMIT TO NUMBER OF DEVICES.
2. UNLIMITED CONDUIT OR RACEWAY DROP TO AN INDIVIDUAL DEVICE.
3. UNLIMITED CONDUIT OR RACEWAY DROP TO A ROOM NOT EXCEEDING 1000 SQ, FT. NO LIMIT TO THE NUMBER OF DEVICES.

NOTIFICATION WIRING

SPEAKER CIRCUIT WIRING LIMITATIONS:

WIRE LENGTH LIMITATIONS:

THE MAXIMUM ALLOWABLE WIRE LENGTH IS THE FARTHEST DISTANCE THAT A SPEAKER CIRCUIT CAN EXTEND FROM THE AMPLIFIER TO THE LAST SPEAKER WITHOUT LOSING 0.5 dB OF SIGNAL. THE FOLLOWING ARE MAXIMUM DISTANCE BASED ON APPROXIMATE WATTAGE OF THE SPEAKER CIRCUIT. CIRCUIT LENGTHS ARE FURTHER BASED ON ORIGINATION OF A CIRCUIT FROM EITHER THE AMPLIFIER OR FROM THE CC1 MODULE.

ALLOWABLE LENGTH AT 25 Vrms, WITH 0.5 dB LOSS
16AWG - 20 WATTS - 231'
16AWG - 30 WATTS - 154'
16AWG - 40 WATTS - 116'

ALLOWABLE LENGTH AT 70 Vrms, WITH 0.5 dB LOSS
16AWG - 20 WATTS - 1815'
16AWG - 30 WATTS - 1210'
16AWG - 40 WATTS - 907'

NAC CIRCUIT (HORN, STROBE) WIRING LIMITATIONS:

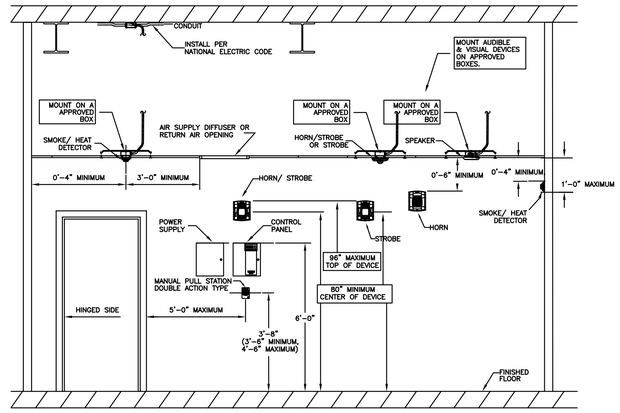
FOR 24VDC SYSTEMS, MINIMUM DEVICE OPERATING VOLTAGE IS 16VDC. VOLTAGE DROP CALCULATIONS ARE BASED ON 16VDC AND POWER SUPPLY DE-RATED AND ON DEPLETED BATTERY BACKUP PER THE PRESCRIBED PERIOD OF STANDBY AND ALARM RING TIME. THE VOLTAGE DROP WILL LIMIT THE CIRCUITS CAPACITY IN ALMOST ALL CASES AND CURRENT CANNOT BE USED AS THE ONLY CIRCUIT WIRING LIMITATION. ALTERATIONS TO CIRCUIT LENGTH FROM THOSE CALCULATED MAY CAUSE CIRCUITS TO BE OUT OF THE TOLERANCES GRANTED BY THE FIRE ALARM CODE. CHANGES TO DEVICE LOCATION OR CIRCUIT LENGTH SHALL BE COMMUNICATED TO THE CONVERGINT TEAM.

NAC CIRCUIT WIRING AND ROUTING MUST NOT EXCEED WHAT IS SHOWN ON THE DESIGN DRAWINGS AND CALCULATIONS. A VOLTAGE DROP TEST IS PART OF MOST FIRE FINALS AND IS REQUIRED BY NFPA. A FAILED FIRE FINAL MAY REQUIRE REWIRING OF THE FAILED CIRCUITS.

WIRE RESISTANCE RATINGS USED FOR CALCULATIONS:
18AWG - 13 OHMS PER 1000'
16AWG - 8 OHMS PER 1000'
14AWG - 5.2 OHMS PER 1000'

EXAMPLE: 1.0 AMP CIRCUIT LOAD USING #14 WIRE = 409 FEET MAXIMUM.

MOUNTING HEIGHTS



* DEVICES SHOWN DEPICT DEVICE TYPES ONLY.

NFPA 72 AND ADA DEVICE
INSTALLATION REQUIREMENTS

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

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WA LIC# ADTCOCL801UQ

1015 39TH AVE SE
PUYALLUP, WA 98374
FIRE ALARM SYSTEM

REVISIONS

NO.	DATE	REVISION
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7	- BY:	-

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Dated: 01-25-2023

Signed:
First M. Last, ET/SET
NICET #: 95136
NICET LEVEL IV
FIRE ALARM SYSTEMS

CODES ADOPTED BY LOCAL AHJ
2013 NFPA 72 NATIONAL FIRE ALARM CODE
2018 INTERNATIONAL BUILDING CODE
2015 NFPA 101 LIFE SAFETY CODE

BUILDING INFORMATION
ITEM1
ITEM2
ITEM3

PREPARED BY: DC
CHECKED BY: DK
PROJECT MANAGER: DM
DATE: 01/25/2023
PROJECT NO: ADT-281800808
TITLE: WIRING INFORMATION
SHEET: FA-0.1

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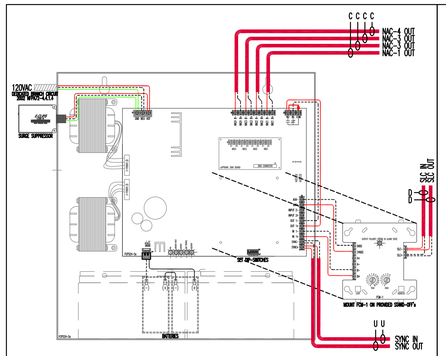
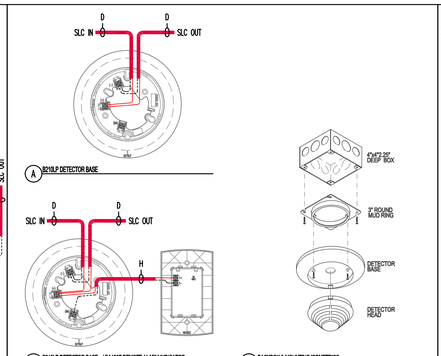
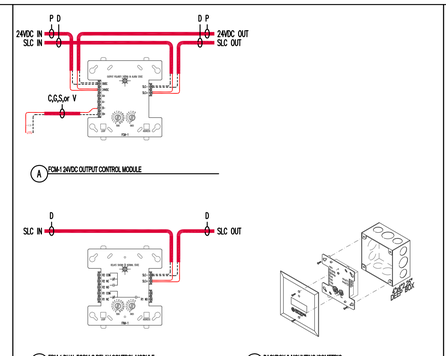


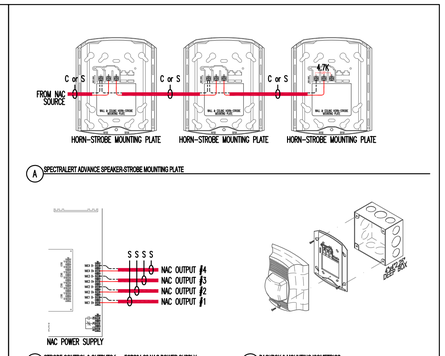
1 FCPS24-Sx SERIES NAC POWER SUPPLY- WIRED FOR GENERAL ALARM OPERATION
SCALE: NONE
LAST MODIFIED ON: OCT 01, 2015
FILENAME: FA-IDL1.dj
REVISION:



2 B210LP DETECTOR BASE w/ & w/o THE RA100Z REMOTE INDICATOR & BACKBOX MOUNTING ISOMETRICS
SCALE: NONE
LAST MODIFIED ON: OCT 01, 2015
FILENAME: FA-IDL1.dj
REVISION:



3 FCM-1 24VDC OUTPUT CONTROL & FRM-1 RELAY MODULES w/ BACKBOX & MOUNTING ISOMETRIC
SCALE: NONE
LAST MODIFIED ON: OCT 01, 2015
FILENAME: FA-IDL1.dj
REVISION:

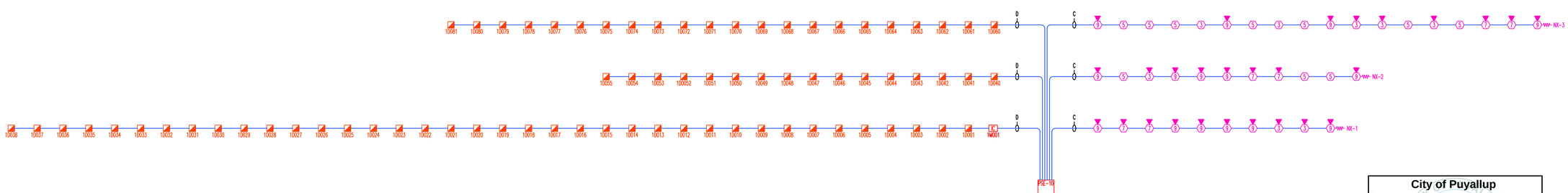


4 SPECTRALERT ADVANCE COMBINATION HORN-STROBE via FCPS NAC POWER SUPPLY
SCALE: NONE
LAST MODIFIED ON: OCT 01, 2015
FILENAME: FA-IDL1.dj
REVISION:

FACP1 PSE-10

Circuit	Location	Circuit Starting VDC	Wire AWG	Device & Qty.	Device & Qty.	Device & Qty.	Device & Qty.	Device & Qty.	Device & Qty.	Device & Qty.	Device & Qty.	Device & Qty.	Circuit Alarm *Sup.* Current	Total devices per circuit	Circuit Length (feet)	Circuit Ohms	Circuit EOL VDC	Results
NAC1	MULTIPURPOSE ROOM	20.4	14	PC2WL30 2	PC2WL75 2	PC2WL95 6							1.46 *0.00*	10.00	50	0.26	**20.0**	**OK**
NAC2		20.4	14	PC2WL30 1	PC2WL75 2	PC2WL95 5	SCWL15 3						1.32 *0.00*	11.00	0	0.00	**20.4**	**OK**
NAC3		20.4	14	PC2WL30 3	PC2WL75 2	PC2WL95 4	SCWL15 7	SCWL30 2					1.63 *0.00*	18.00	0	0.00	**20.4**	**OK**
SPARE		20.4	14										0.00 *0.00*	0.00	0	0.00	**20.4**	**OK**

SUPPLIED AMPS:	Field Alarm Current in Amps:	REMAINING AMPS:
10.00 A	4.41 A	5.59 A



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

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CENTRAL PIERCE FIRE & RESCUE
1015 39TH AVE SE
PUYALLUP, WA 98374
FIRE ALARM SYSTEM

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Dated: 01-25-2023

Signed:
First M. Last, ET/SET
NICET #: 95136
NICET LEVEL IV
FIRE ALARM SYSTEMS

CODES ADOPTED BY LOCAL AHJ

2013 NFPA 72 NATIONAL FIRE ALARM CODE
2018 INTERNATIONAL BUILDING CODE
2015 NFPA 101 LIFE SAFETY CODE

BUILDING INFORMATION
ITEM1
ITEM2
ITEM3

PREPARED BY: DC
CHECKED BY: DK
PROJECT MANAGER: DM
DATE: 01/25/2023
PROJECT NO: ADT-281800808
TITLE: WIRING DETAILS RISER DIAGRAM CALCS
SHEET: FA-0.2

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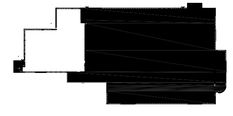

KEY PLAN

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

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PREPARED BY:	DC
CHECKED BY:	DK
PROJECT MANAGER:	DM
DATE:	01/25/2023
PROJECT NO:	ADT-281800808

TITLE:
FIRE ALARM FLOOR PLAN LAYOUT

SHEET:
FA-1.1

J:\73224116 SHBTC Central Pierce F&R DESIGN\002 - Engineering\DWG\Bim\73224116TM0_01.dwg

MECHANICAL GENERAL ABBREVIATIONS

ABBV	FULL NAME	ABBV	FULL NAME	ABBV	FULL NAME
AC	AIR CONDITIONING UNIT	FCU	FAN COIL UNIT	NOM	NOMINAL
AFF	ABOVE FINISHED FLOOR	FD	FIRE DAMPER	NTS	NOT TO SCALE
AHU	AIR HANDLING UNIT	FLA	FULL LOAD AMPS	OBD	OPPOSED BLADE DAMPER
AL	ALUMINUM	FOB	FLAT ON BOTTOM	OD	OUTSIDE DIMENSION
BAS	BUILDING AUTOMATION SYSTEM	FOT	FLAT ON TOP	POC	POINT OF CONNECTION
BDD	BACK DRAFT DAMPER	FSD	FIRE SMOKE DAMPER	PRV	PRESSURE REDUCING VALVE
BI	BLACK IRON	GALV	GALVANIZED	PVC	POLYVINYL CHLORIDE
BOD	BOTTOM OF DUCT	GC	GENERAL CONTRACTOR	REQ'D	REQUIRED
BOTT	BOTTOM	GENX	GENERATOR EXHAUST	RPBA	REDUCED PRESSURE BACKFLOW ASSY
BTU	BRITISH THERMAL UNITS	GLVNL	GALVANNEAL	RTU	ROOFTOP UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR	GPM	GALLONS PER MINUTE	SA	SUPPLY AIR
CAT1	CATEGORY ONE VENT	GREASE	GREASE DUCT	SD	SMOKE DAMPER
CAT4	CATEGORY FOUR VENT	GWB	GYPSUM WALL BOARD	SL	SOUND LINED
CFM	CUBIC FEET PER MINUTE	HP	HORSE POWER, HEAT PUMP	SM	SHEET METAL
CPVC	CPVC MATERIAL	HVAC	HEATING, VENTILATION AND AIR COND.	SP	STATIC PRESSURE
DB	DUCTBOARD	HX	HEAT EXCHANGER	SS	STAINLESS STEEL
DDC	DIRECT DIGITAL CONTROLS	ID	INSIDE DIMENSION	SUSP	SUSPENDED
DEMO	DEMOLISH	LAT	LEAVING AIR TEMPERATURE	T	THERMOSTAT
DIFF	DIFFUSER	LBS	POUNDS	TOD	TOP OF DUCT
DMPR	DAMPER	LWT	LEAVING WATER TEMPERATURE	TV	TURNING VANES
DN	DOWN	MAT	MIXED AIR TEMPERATURE	TYP	TYPICAL
E	EXISTING	MBH	ONE THOUSAND BTUH	UNO	UNLESS NOTED OTHERWISE
EAT	ENTERING AIR TEMPERATURE	MCA	MINIMUM CIRCUIT AMPACITY	VAV	VARIABLE AIR VOLUME
EC	EGGCRATE	MD	MOTORIZED DAMPER	VD	VOLUME DAMPER
EER	ENERGY EFFICIENCY RATIO	MIN	MINIMUM	VFD	VARIABLE FREQUENCY DRIVE
EF	EXHAUST FAN	M-M	MACDONALD-MILLER	W	DUCT INSULATION WRAP
ELEV	ELEVATION	NC	NORMALLY CLOSED	W/	WITH
ESP	EXTERNAL STATIC PRESSURE	NIC	NOT IN CONTRACT	WELD	WELDED
EWT	ENTERING WATER TEMPERATURE	NO	NORMALLY OPEN	Ø	VOLTAGE PHASE & DUCT DIAMETER

HVAC SYSTEM ABBREVIATIONS

ABBV	FULL NAME	ABBV	FULL NAME	ABBV	FULL NAME
COMB-GALV	COMBUSTION AIR	EA AL	EXHAUST ALUMINUM	OA	OUTSIDE AIR
SA	SUPPLY AIR LP	EA SS	EXHAUST SS 304	OA-KOOL	OUTSIDE AIR KOOLDUCT
SA-KOOL	SUPPLY AIR LP KOOLDUCT	EA AL WELD	EXHAUST ALUMINUM WELDED	RLF	RELIEF AIR
SA AL	SUPPLY AIR LP ALUMINUM	EA GALV WELD	EXHAUST GALV WELDED	RA	RETURN AIR
SA SS	SUPPLY AIR LP SS 304 2B	EA GLVNL WELD	EXHAUST GALVANNEAL WELDED	DB	DUCTBOARD
SA AL WELD	SUPPLY AIR LP ALUMINUM WELDED	EA SS WELD	EXHAUST SS 304 WELDED	FLU-CAT1	FLUE VENT - CATEGORY 1
SA GALV WELD	SUPPLY AIR MP GALV WELDED	EA BI GREASE	EXHAUST GREASE BLACK IRON WELD	FLU-CAT4	FLUE VENT - CATEGORY 4
SA GLVNL WELD	SUPPLY AIR MP GALVANNEAL WELD	EA GALV GREASE	EXHAUST GREASE GALV WELDED	FLU-CPVC	FLUE VENT - CPVC MATERIAL
SA SS WELD	WELDED SUPPLY AIR LP SS 304 2B	EA GALV GREASE	EXHAUST GREASE SS 304 WELDED	FLU-SS	FLUE VENT - SHOP BUILT SS 304
EA	EXHAUST AIR	MUA	MAKE-UP AIR	FLU-GALV	FLUE VENT - SHOP BUILT GALV

HVAC SYMBOL LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
BARE RECTANGULAR SHEETMETAL	14x12 SA	FLEX DUCT	
SOUNDLINE SHEETMETAL (GENERAL NOTES)	14x12 SA-SL	EQUIPMENT FLEX ROUND CONNECTOR	24ø
SHEETMETAL W/ INSULATION (GENERAL NOTES)	14x12 SA-W	EQUIPMENT FLEX RECTANGULAR CONNECTOR	24x24
BARE ROUND SHEETMETAL	12ø SA	SUPPLY DUCT UP/DOWN	
ROUND SHEETMETAL W/ INSULATION (GENERAL NOTES)	12ø SA-W	EXHAUST DUCT UP/DOWN	
BARE OVAL SHEETMETAL	14x12ø SA	RETURN DUCT UP/DOWN	
OVAL SHEETMETAL W/ INSULATION (GENERAL NOTES)	14x12ø SA-W	SUPPLY AIR TERMINAL RECTANGULAR AND SQUARE	
EXAMPLE OF EXISTING	14x12 SA	RETURN AIR TERMINAL RECTANGULAR AND SQUARE	
EXAMPLE OF DEMO		EXHAUST AIR TERMINAL RECTANGULAR AND SQUARE	
EXAMPLE OF NEW	14x12 SA	RADIAL AIR TERMINAL	
EXAMPLE OF FUTURE (N.I.C.)	14x12 SA	SUPPLY AIR SLOT DIFFUSER	
EXPOSED QUALITY SHEETMETAL	14x12 SA-Q	RETURN AIR SLOT DIFFUSER	
CLEANROOM QUALITY DUCTWORK	14x12 SA-C	EXHAUST AIR SLOT DIFFUSER	
DUCTBOARD (1" FIBERGLASS)	14x12 SA-DB	POINT OF CONNECTION	
CONTINUATIION OF ROUND DUCT		CENTER LINE	
CONTINUATION OF RECTANGULAR DUCT		THERMOSTAT	T
AIR FLOW IN SYMBOL		CARBON MONOXIDE SENSOR	CO
AIR FLOW OUT SYMBOL		NITROGEN DIOXIDE SENSOR	NO2
MECHANICAL EQUIPMENT TAG	AHU-001	OTHER SENSOR	X
KEYED NOTE	1	SMOKE DETECTOR	S
ACCESS DOORS		ELECTRICAL SWITCH	$
RATED ENCLOSURE		MITERED ELBOW WITH TURNING VANES	

NOTE: SIZE REFLECTS ACTUAL SHEET METAL DIMENSION AND DOES NOT ACCOUNT FOR INSULATION OR LINING

DIFFUSER/GRILLE SCHEDULE

SYMBOL	MANUFACTURER & MODEL	SIZE	TYPE	NOTES
A SIZE / CFM	TITUS MCD-3	AS NOTED	T-BAR MOUNT MODULAR CORE DIFFUSER	BORDER TYPE 3, WHITE FINISH
B SIZE / CFM	TITUS MCD-1	AS NOTED	SURFACE MOUNT MOD CORE DIFFUSER	BORDER TYPE 1, WHITE FINISH
C SIZE / CFM	TITUS ML	AS NOTED	SURFACE MOUNT SLOT DIFFUSER	BORDER TYPE 2A, WHITE FINISH
D SIZE / CFM	TITUS 350RL	AS NOTED	SURFACE MOUNT RET/EXH GRILLE	BORDER TYPE 1, WHITE FINISH
E SIZE / CFM	TITUS 300RL	AS NOTED	SURFACE MOUNT SUPPLY GRILLE	BORDER TYPE 1, WHITE FINISH
F SIZE / CFM	TITUS S300FS	AS NOTED	SPIRAL DUCT MOUNT, CURVED DOUBLE DEFLECTION DIFFUSER	INCLUDE ASD AIR SCOOP, NOTE DUCT DIAMETER WHEN ORDERING, WHITE FINISH
	MMFS METAL EGGCRATE	12/24	RETURN/EXH	
	MMFS METAL EGGCRATE	24/24	RETURN/EXH	

HVAC GENERAL NOTES - 2018 WA STATE

1. THESE PLANS ARE SCHEMATIC AND DO NOT SHOW EXACT ROUTING OR EVERY OFFSET WHICH MAY BE REQUIRED. THE HVAC CONTRACTOR IS TO COORDINATE WITH ALL OTHER TRADES AND IS TO VERIFY ALL CLEARANCES BEFORE COMMENCING WORK.
2. MATERIALS, METHODS, AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE 2018 EDITIONS OF THE INTERNATIONAL MECHANICAL CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE 2018 WSEC, AND LOCAL CODES AND ORDINANCES.
3. DUCT CONSTRUCTION AND HANGING SHALL COMPLY WITH CHAPTER 6 OF THE 2018 IMC AND WITH CURRENT SMACNA STANDARDS. EARTHQUAKE BRACE ALL DUCTS 28" DIA AND LARGER WHICH ARE SUSPENDED MORE THAN 12" BELOW STRUCTURAL SYSTEM.
4. JOINTS OF MEDIUM AND HIGH VELOCITY DUCT SYSTEMS SHALL BE SEALED WITH GASKETS OR LISTED MASTIC TYPE DUCT SEALANT.
5. DUCTS SHALL BE INSULATED AS INDICATED ON PLANS, PER 2018 WASHINGTON STATE ENERGY CODE, COMMERCIAL PROVISIONS

   - DUCT WRAP, WHERE INDICATED, SHALL BE 0.75 LB/CU FT FIBERGLASS DUCT INSULATION WITH A FACTORY APPLIED REINFORCED ALUM. FOIL VAPOR BARRIER.

   - SOUND LINING, WHERE INDICATED, SHALL BE 1" 1.5 LB/CU FT FIBERGLASS DUCT LINING COATED TO PREVENT FIBER EROSION AT VELOCITIES UP TO 6000 FPM.

   - DUCT BOARD, WHERE INDICATED, SHALL BE 1" RIGID FRK FACED EI 475 FIBERGLASS DUCT BOARD SYSTEM, UL 181 LISTED AS A CLASS 1 AIR DUCT.

   - SUPPLY DUCT WHICH CONVEYS SUPPLY AIR AT TEMPERATURES LESS THAN 55 DEG F OR GREATER THAN 105 DEG F WHEN LOCATED IN CONDITIONED SPACE SHALL BE INSULATED WITH A MINIMUM OF R-3.3 , WHEN LOCATED IN UNCONDITIONED SPACE R-6 AND WHEN LOCATED OUTSIDE THE BUILDING R-8 (CLIMATE ZONE 4) OR R-12 (CLIMATE ZONE 5) PER WSEC C403,10,1 AND TABLE C403,10,1,2. DUCTWORK EXPOSED TO VIEW WITHIN A ZONE THAT SERVES THAT ZONE IS NOT REQUIRED TO BE INSULATED.
6. FLEX DUCTS SHALL CONSIST OF A REINFORCED VAPOR BARRIER, 1 1/2" FIBERGLASS INSULATION, AND NON-PERFORATED INTERIOR LINER WITH WIRE HELIX. DUCT SHALL BE A UL 181 LISTED CLASS 1 AIR DUCT. FLEX DUCTS SHALL ONLY BE USED WHERE SHOWN AND SHALL NOT EXCEED 12' IN LENGTH UNLESS NOTED OTHERWISE.
7. PROVIDE EARTHQUAKE RESTRAINT FOR HVAC EQUIPMENT IN ACCORDANCE WITH SECTION 1613 OF THE 2018 IBC.
8. PROVIDE FIRE DAMPERS, SMOKE DAMPERS AND FIRE/SMOKE DAMPERS WHERE INDICATED ON PLANS AND AS REQUIRED BY SECTION 717.5 OF THE 2018 IBC, PROVIDE CEILING FIRE DAMPERS WHERE INDICATED ON PLANS AND AS REQUIRED BY SECTION 717,6,2,1 OF THE 2018 IBC. INSTALL FIRE DAMPERS SMOKE DAMPERS AND FIRE/SMOKE DAMPERS IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS, THE TERMS OF THEIR LISTING, AND THE REQUIREMENTS OF THE CODE.
9. PIPING PENETRATIONS OF FIRE RATED WALLS OR FLOORS SHALL BE SLEEVED AND FIRE STOPPED WITH LISTED MATERIALS SO AS TO MAINTAIN THE INTEGRITY AND RATING OF THE FLOOR OR WALL.
10. HVAC EQUIPMENT, VALVES AND DAMPERS SHALL BE LOCATED IN EASILY ACCESSIBLE LOCATIONS. UNLESS SHOWN ON ARCHITECTURAL DRAWINGS, REQUIRED ACCESS PANELS SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR. MINIMUM ACCESS DOOR SIZE FOR VALVES AND DAMPERS TO BE 18" X 18".
11. MOTORS STARTERS NOT LISTED AS BEING PROVIDED IN THE HVAC EQUIPMENT SCHEDULES ARE TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
12. WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION TO BE PROVIDED TO THE BUILDING OWNER. RECORD DRAWINGS SHALL INCLUDE AS A MINIMUM THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT, GENERAL CONFIGURATION OF DUCT AND PIPE DISTRIBUTION SYSTEM, INCLUDING SIZES, AND THE TERMINAL AIR AND WATER DESIGN FLOW RATES.
13. OPERATING AND MAINTENANCE MANUALS TO BE PROVIDED TO THE BUILDING OWNER THAT INCLUDE: SUBMITTAL DATA, NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY, HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION AND A COMPLETE OPERATIONAL NARRATIVE FOR EACH SYSTEM.
14. COMMISSIONING IS REQUIRED ON THIS PROJECT IN ACCORD WITH 2018 WASHINGTON STATE ENERGY CODE (WSEC), COMMERCIAL PROVISIONS AND SECTION C408.
15. A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED AND FILED WITH THE OWNER
16. SHAFT WALLS CONSTRUCTED TO SUPPORT AIR MOVEMENT FOR RETURN AIR SYSTEMS AND STAIR & ELEVATOR PRESSSURIZATION SYSTEMS SHALL BE CONSTRUCTED TO THE FOLLOWING STANDARDS:
    A. SHAFTS (RATED FOR MAXIMIUM 2" WC) SHALL BE CONSTRUCTED TO WITHSTAND 15 PSF LOADING WITH A DEFLECTION OF L/360 (UNO).
    B. SHAFTS SHALL BE SEALED SUBSTANTIALLY AIR-TIGHT USING THE CRITERIA FROM THE 2018 INTERNATIONAL BUILDING CODE:
        1. SECTION 715.6 FIRE RESISTANT JOINT SYSTEMS IN SMOKE BARRIERS: LEAKAGE SHALL NOT EXCEED 5 CFM PER LINEAR FOOT OF JOINT AT 0.3" WC.
        2. SECTION 909.5 SMOKE BARRIER CONSTRUCTION FOR INTERIOR EXIT STAIRWAYS AND EXIT PASSAGEWAYS: MAXIMUM ALLOWABLE LEAKAGE AREA PER SHAFT SHALL NOT EXCEED (0.00035 SF/SF)
17. DAMPERS USED FOR OUTDOOR AIR INTAKE, EXHAUST, OR RELIEF SHALL HAVE THE FOLLOWING MAXIMUM LEAKAGE RATES AT 1" W.G. (PER AMCA STANDARD 500D): MOTORIZED DAMPERS: 4 CFM/S.F. GRAVITY DAMPERS: 20CFM/S.F. (40 CFM/S.F. FOR DAMPERS SMALLER THAN 24" IN EITHER DIMENSION) PER 2018 WSEC C403.7.8.3.
18. OUTSIDE AIR INTAKE, EXHAUST, AND RELIEF DAMPERS SERVING CONDITIONED SPACES MUST BE MOTORIZED (FAIL CLOSED) PER WSEC, COMMERCIAL PROVISIONS, 2018 WSEC SECTION C403.7.8. EXCEPT AS ALLOWED BY WSEC.
19. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723, EXCEPT AS NOTED IN SECTION 602.2.1 OF THE 2018 IMC.

CONTACT LIST

TITLE	NAME	COMPANY	PHONE NUMBER	EMAIL
ENGINEER PRINCIPLE	BEN GEZON	MACDONALD MILLER	206-768-4030	BEN.GEZON@MACMILLER.COM
PROJECT ENGINEER	STEVE HARGROVE	MACDONALD MILLER	206-768-4000	STEVE.HARGROVE@MACMILLER.COM
ACCOUNT MANAGER	STEVE FLINK	MACDONALD MILLER	253-680-3172	STEVE.FLINK@MACMILLER.COM
MECHANICAL DESIGNER	MARC RYPDAHL	MACDONALD MILLER	503-262-5418	MARC.RYPDAHL@MACMILLER.COM

LEGAL DESCRIPTION

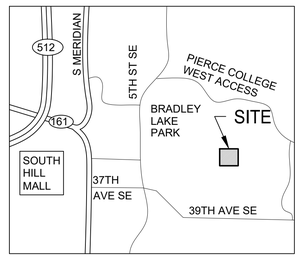
APN# 0419034028

LEGAL DESCRIPTION: THAT PORTION OF SOUTHEAST QUATRTER OF SECTION 3, TOWNSHIP 19 NORTH RANGE EAST,

SCOPE OF WORK

INSTALL 19 VAV BOXES WITH ASSOCIATED DUCT AND DIFFUSERS.
INSTALL 4 SOUND ATTENUATORS
INSTALL EXHAUST FAN FOR RESTROOMS.
INSTALL EXHAUST FAN FOR SERVER ROOM.

DRAWING SHEET INDEX



VICINITY MAP
NO SCALE

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SHBTC BUILDING C
CENTRAL PIERCE FIRE & RESCUE
1015 39TH AVE SE
PUYALLUP, WA 98374

SCHEDULES
HVAC

ISSUED FOR PERMIT

ENGINEER: M RYPDAHL
LAST REVISED: 01-30-23
CHECKED BY: S HARGROVE
DATE PLOTTED: 01-30-23
CAD: M HAGBERG
ISSUE DATE: 01-30-23
DRAWING NUMBER: C-2682-73224116-00
SHEET NUMBER: TM0.01

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BLDG C - EXHAUST FAN SCHEDULE

UNIT NO.	AREA SERVED	MFG & MODEL NO.	TYPE	CFM	ESP	RPM	HP	VOLT/PH	BDD	WT LBS	NOTES
EF-101	SERVER RM	GREENHECK SQ-85-VG	INLINE CAB	100	0.25	1354	1/4	120/1	N	54	NEW 1,2,5,6, 7
EF-R03	TENANT RESTROOM	GREENHECK G-160-VG	ROOF	4200	0.75	1248	2	208/1	N	116	NEW 1-4

NOTES:
1. DISCONNECT BY ELECTRICAL CONTRACTOR.
2. PROVIDED WITH ECM MOTOR.
3. FACTORY FURNISHED LINE VOLTAGE MOTORIZED DAMPER AND FACTORY FURNISHED ROOF CURB.
4. CONTROL CONTRACTOR TO INTERLOCK TO BLDG EMS, FAN TO OPERATES DURING OCCUPIED MODES.
5. PROVIDE SPEED CONTROLLER.
6. PROVIDE WITH SPACE SENSOR TO BE TIED INTO BMS.
7. FAN TO RUN 24/7 AND BE TIED INTO THE BMS TO ALARM IF FAN STOPS WORKING.

1ST FLOOR PARALLEL VAV BOX SCHEDULE

UNIT NO.	MFG & MODEL NO.	INLET SIZE	VALVE CFM MAX	VALVE CFM MIN	HEATER KW	HEATER DT	HEATER CFM	HEATER VOLT/PH	HEATER STGS	FAN FLA	FAN VOLT/PH	FAN SPD	NOTES
VAV-101	NAILOR 35NE 516	16	1660	500	12	30	1250	460/3	2	6.1	277/1	VAR	EXIST, 1,2,4
VAV-106	NAILOR 35NE 512	12	960	290	7.5	31	750	460/3	2	6.1	277/1	VAR	EXIST, 1,2,4
VAV-143	NAILOR 35NE 516	12	1030	310	8	30	850	460/3	2	6.1	277/1	VAR	NEW,1,2,5
VAV-144	NAILOR 35NE 516	10	900	270	10.5	29	1150	460/3	2	6.1	277/1	VAR	NEW,1,2,5
VAV-145	NAILOR 35NE 516	10	700	210	5	29	550	460/3	2	6.1	277/1	VAR	NEW,1,2,5
VAV-146	NAILOR 35NE 510	10	500	150	4	31	400	460/3	2	6.1	277/1	VAR	NEW,1,2,5
VAV-147	NAILOR 35NE 514	8	330	100	2.5	31	250	460/3	2	6.1	277/1	VAR	NEW,1,2,5
VAV-148	NAILOR 35NE 512	10	750	230	6	31	600	460/3	2	6.1	277/1	VAR	NEW,1,2,5
VAV-149	NAILOR 35NE 514	14	1400	420	10.5	29	1150	460/3	2	6.1	277/1	VAR	NEW,1,2,5
VAV-150	NAILOR 35NE 514	14	1480	440	10.5	28	1200	460/3	2	6.1	277/1	VAR	NEW,1,2,5
VAV-151	NAILOR 35NE 310	10	550	170	4.5	31	450	460/3	2	6.1	277/1	VAR	NEW,1,2,5
VAV-152	NAILOR D3001	12	1100	330									NEW,1,3,5
VAV-153	NAILOR D3001	12	1020	310									NEW,1,3,5
VAV-154	NAILOR D3001	10	700	210									NEW,1,3,5
VAV-155	NAILOR D3001	16	1870	560									NEW,1,3,5
VAV-156	NAILOR D3001	16	1920	580									NEW,1,3,5
VAV-157	NAILOR D3001	10	500	150									NEW,1,3,5
VAV-158	NAILOR D3001	12	1020	310									NEW,1,3,5
VAV-159	NAILOR D3001	6	250	80									NEW,1,3,5
VAV-160	NAILOR D3001	10	700	210									NEW,1,3,5
VAV-161	NAILOR D3001	8	400	120									NEW,1,3,5

NOTES:
1. DISCONNECT BY ELECTRICAL.
2. PARALLEL FAN POWERED TERMINAL UNIT WITH HEAT -, SIZE AS LISTED, PRESSURE INDEPENDENT, FACTORY OPTIONS INCLUDE:
   - EXTENDED DAMPER 1/2" DIAM. SHAFT
   - FACTORY INSTALLED 1" THROW-AWAY FILTERS
   - CONTROLS BY OTHERS - FACTORY PROVIDE WIRING HARNESS WITH LOW VOLTAGE INTERLOCK CONDUCTORS EXTENDED FROM HIGH VOLTAGE CABINET TO LOW VOLTAGE CONTROLS CABINET.
   - 1" MATT-FACED UNIT INSULATION
   - VARIABLE SPEED FAN CONTROL W/ ECM MOTOR
   - 24V TRANSFORMER, 50 VA MIN RATING
   - HEAT STAGING & FAN CONTROL THROUGH FACTORY WIRED RELAYS
   - AUTO RESET 120°F HIGH LIMIT T'STAT
   - NON MAGNETIC QUIET ACTING HEATER CONTACTOR
3. COOLING ONLY TERMINAL UNIT W/O HEAT -, SIZE AS LISTED, PRESSURE INDEPENDENT, CONTROLS BY OTHERS. FACTORY OPTIONS INCLUDE:
   - 1" MATT-FACED UNIT INSULATION
   - 24V TRANSFORMER, 50 VA MIN RATING
4. SHELL AND CORE BOX TO BE INSTALLED.
5. TI BOX
6. PROVIDE WITH DCV AND OCCUPANCY SENSOR TO SHUT OFF BOX WHEN ROOM NOT OCCUPIED AND MODULATE VALVE BASED ON ROOM OCCUPANCY.

NOTE TO ELECTRICAL:
- 460V/3PH TERMINAL UNITS REQUIRE A FOUR WIRE POWER FEED IN ORDER TO SUPPLY 277V/1PH POWER TO THE FAN MOTOR.

SEE ATTACHED VENTILATION CALCULATIONS FOR OUTSIDE AIR

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DAMPER SCHEDULE

TAG	DESCRIPTION-POWERED	NOTES	TAG	DESCRIPTION-NON POWERED	NOTES
FSD-1 (1 1/2)	1 1/2 HOUR FIRE/SMOKE DAMPER: LOW VELOCITY, VERTICAL OR HORIZONTAL, 3-V BLADE,LEAKAGE CLASS 2, 120V ACTUATOR, 2 POSITION, FAIL CLOSED, 165° F CLOSURE RRL, GREENHECK FSD 212 OR EQUAL.	1-4	FD-1 (1 1/2)	1 1/2 HOUR DYNAMIC FIRE DAMPER: CURTAIN STYLE, VERTICAL OR HORIZONTAL , 165° F FUSABLE LINK, BLADE IN AIR STREAM,GREENHECK DFD 150 TYPE A OR EQUAL.	
			BDD	BACKDRAFT DAMPER: GREENHECK WD 330 (VERT) OR WD-100 (HORIZONTAL) OR EQUAL.	
				VOLUME DAMPER: SHOP FABRICATED, W/LOCKING QUADRANT.	

NOTES:
1. ACTUATOR BY MECHANICAL CONTRACTOR, WIRING BY ELECTRICAL CONTRACTOR
2. INTERLOCK OF SMOKE DAMPER TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR
3. OPEN/CLOSED POSITION INDICATOR
4. DAMPER FAILS CLOSED

SEQUENCE OF OPERATION

EXISTING OVERALL SYSTEM CONFIGURATION SHALL COMPLY WITH WSEC C403.7 HIGH EFFICIENCY VAV SYSTEM TO INCLUDE, THE FOLLOWING:
1. AHU TO HAVE AIR SIDE ECONOMIZER
2. VAV AND AHU TO BE CONTROLLED BY DDC SYSTEM
3. AHU SHALL BE EQUIPPED WITH OUTDOOR AIRFLOW MEASURING DEVICE. OSA SHALL BE ADJUSTED BASED ON FEEDBACK FROM VAV UNITS
4. SYSTEM SHALL BE CAPABLE OF MEASURING SUPPLY AIR FLOW.
5. SYSTEM SHALL BE CAPABLE OF RESETTING HIGHER THE SUPPLY AIR TEMP TO ACCOMMODATE WORST CASE ZONE.
6. DDC SYSTEMS SHALL BE DESIGNED AND CONFIGURED PER GUIDELINES SET BY HIGH PERFORMANCE SEQUENCES OF OPERATION FOR HVAC SYSTEMS
7. DDC SYSTEM SHALL VARY THE SPEED FOR THE VAV FAN MOTOR. MINIMUM SPEED SHALL NOT BE GREATER THAN 66 PERCENT OF HEATING AND COOLING LOAD.
8. IN DEAD BAND BETWEEN HEATING AND COOLING FAN POWERED VAV SHALL RESET PRIMARY AIR SUPPLY SET POINT TO MINIMUM SET POINT.
9. SPACES LARGER THAN 150 SQ FT WITH OCCUPANCY OVER 25 PEOPLE PER 1000 SQFT SHALL BE PROVIDED WITH DEDICATED VAV TERMINAL WITH CARBON DIOXIDE SENSOR TO ADJUST FROM MINIMUM TO MAXIMUM VALVE POSITION WHEN OCCUPIED AND TO SHUT VALVE WHEN UNOCCUPIED.
10. RTU SHALL BE COOLED USING AIR COOLED CHILLERS WHICH HAVE AN IPLV 25% GREATER THAN LISTED IN TABLE C403.2.3(7).
11. DDC SYSTEM SHALL INCLUDE A FAULT DETECTION AND DIAGNOSTIC SYSTEM WITH THE FOLLOWING:
    - SENSORS TO MONITOR OUTSIDE AIR, SUPPLY AIR AND RETURN AIR.
    - TEMPERATURE SENSORS SHALL HAVE AN ACCURACY OF +/- 2 °F OVER RANGE OF 40 TO 80 °F.
    - AHU CONTROLLER SHALL INDICATE FREE COOLING AVAILABLE, ECONOMIZER ENABLED, COMPRESSOR ENABLED, HEATING ENABLED, MIXED AIR LOW LIMIT CYCLE ACTIVE, CURRENT VALUE OF EACH SENSOR.
    - VAV AHU CONTROLLER SHALL BE CABLE OF MANUALLY OPERATING COMPRESSORS, ECONOMIZERS, FANS AND HEATING SYSTEM TO ALLOW FOR INDEPENDENT TESTING AND VERIFICATION.
    - VAV CONTROLLER SHALL BE CONFIGURED TO REPORT FAULTS TO FAULT MANAGEMENT APPLICATION ACCESSIBLE BY SERVICE PERSONNEL.
    - VAV TERMINAL UNIT SHALL BE CONFIGURED TO REPORT IF VAV INLET VALVE HAS FAILED BY PERFORMING CHECK ONCE A MONTH.
    - VAV TERMINAL SHALL REPORT AND TREND WHEN VAV IS DRIVING AHU RESET SEQUENCE AND OPERATOR SHALL BE ABLE TO EXCLUDE ZONES USING GRAPHIC INTERFACE:
      - SUPPLY AIR TEMPERATURE SETPOINT RESET TO LOWER SA TEMPERATURE SET POINT FOR COOLING OPERATION
      - SUPPLY AIR DUCT STATIC PRESSURE SETPOINT RESET FOR THE HIGHEST DUCT PRESSURE SETPOINT ALLOWABLE
    - FDD SYSTEM SHALL BE CONFIGURED TO DETECT THE FOLLOWING FAULTS: AIR TEMPERATURE SENSOR, ECONOMIZER FAILURE, OUTDOOR AIR OR RETURN AIR DAMPER NOT MODULATING, EXCESS OUTDOOR AIR.

VAV-XXX: COOLING ONLY VAV BOX
SERVES: INTERIOR ZONES
SCHEDULE: MON - FRI 6:00 AM - 6:00 PM, SAT 8:00 AM - 2:00 PM, SUN OFF (ADJUSTABLE)
SPACE TEMPERATURE SETPOINT: 74°F COOLING (OCCUPIED); 80°F COOLING (UNOCCUPIED)
SEQUENCE (SINGLE DUCT VAV):
COOLING: THE PRIMARY AIR VALVE SHALL MODULATE BETWEEN MINIMUM AND MAXIMUM AIRFLOW TO MAINTAIN SPACE TEMPERATURE. WHEN SPACE TEMPERATURE IS 2ºF ABOVE COOLING SETPOINT, THE VALVE SHALL BE AT MAXIMUM AIRFLOW. WHEN SPACE TEMPERATURE IS 2ºF BELOW SETPOINT, THE VALVE SHALL BE AT MINIMUM AIRFLOW.

VAV-XXX: PARALLEL FAN-POWERED VAV TERMINAL UNITS W/ ELECTRIC HEAT
SERVES: EXTERIOR ZONES
SCHEDULE: OCCUPIED HOURS
SPACE TEMPERATURE SETPOINT: 68ºF HEATING, 74ºF COOLING (OCCUPIED); 55ºF HEATING, 80ºF COOLING (UNOCCUPIED)
SEQUENCE (SINGLE DUCT FAN-POWERED VAV WITH HEAT):
SUPPLY FAN: DURING OCCUPIED HOURS, THE SUPPLY FAN SHALL BE ON. DURING UNOCCUPIED HOURS, THE SUPPLY FAN SHALL BE OFF.
COOLING: THE PRIMARY AIR VALVE SHALL MODULATE BETWEEN MINIMUM AND MAXIMUM AIRFLOW TO MAINTAIN SPACE TEMPERATURE. WHEN SPACE TEMPERATURE IS 2ºF ABOVE COOLING SETPOINT, THE VALVE SHALL BE AT MAXIMUM AIRFLOW. WHEN SPACE TEMPERATURE IS 2ºF BELOW SETPOINT, THE VALVE SHALL BE AT MINIMUM AIRFLOW.
HEATING: WHEN SPACE TEMPERATURE FALLS 2ºF BELOW SETPOINT, THE FAN SHALL TURN ON TO MINIMUM SETTING (50% OF MAXIMUM), IF TEMPERATURE FALLS 3ºF BELOW SETPOINT THE ELECTRIC HEATER SHALL ENGAGE 1ST STAGE HEATING. IF TEMPERATURE FALLS 4ºF BELOW SETPOINT THE ELECTRIC HEATER SHALL ENGAGE 2ND STAGE HEATING AND BRING FAN TO MAXIMUM SPEED.
DEADBAND: DURING DEADBAND, THE PRIMARY AIR VALVE SHALL MAINTAIN THE COOLING MINIMUM AIRFLOW SETPOINT.

VAV-XXX DEMAND CONTROL VENTILATION
SERVES: CONFERENCE ROOMS
SETPOINTS: CO2 CONCENTRATION BELOW 800 PPM
SUMMARY: IF CO2 CONCENTRATION IS LESS THAN 400 PPM, SET COOLING VALVE TO MIN DAMPER POSITION. AS C02 CONCENTRATION INCREASES INCREASE VALVE.
POSITION TO MAINTAIN CO2 CONCENTRATIONS BELOW 800 PPM.
WHEN SENSOR DETECT NO OCCUPANCY THE VALVE TO ROOM SHALL CLOSE UNTIL SPACE REACHES 5ºF FROM SET POINT.

EF-R03 - RESTROOM EXHAUST FAN
SERVES: RESTROOM
CONTROL TYPE: BMS
SCHEDULE: OCCUPIED HOURS
DDC SYSTEM INTERFACE: YES
NOTES: FAN TO BE TIED INTO BMS TO ALARM IF FAN STOP OPERATING

EF-108 - SERVER EXHAUST FAN
SERVES: SERVER ROOM
CONTROL TYPE: LOCAL
SETPOINTS: REVERSE ACTING LINE-VOLTAGE THERMOSTAT SET AT 80F
DDC SYSTEM INTERFACE: NO

SOUND TRAP SCHEDULE

UNIT NO.	UNIT SERVED	MFG & MODEL NO.	SIZE W	SIZE H	SIZE L	FACE CFM	FACE VEL	DP	DB ATTENUATION 63	125	250	500	1K	2K	4K	8K	NOTES
ST-105	RTU-1-2	IAC ML	72	48	60	20,000	833	0,04	4	7	14	30	30	20	13	10	NEW 1
ST-106	RTU-1-2	IAC ML	72	48	60	20,000	833	0,04	4	7	14	30	30	20	13	10	NEW 1
ST-107	RTU-1-2	IAC FCS-48	48	-	60	22,000	1750	0.1	9	17	32	35	34	23	19	15	NEW 2
ST-108	RTU-1-2	IAC FCS-48	48	-	60	22,000	1750	0.1	9	17	32	35	34	23	19	15	NEW 2

NOTES:
1. QUANITY (2) - 36X48X60
2. ID 48" DIA, OD 64" DIA.

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SHBTC BUILDING C
CENTRAL PIERCE FIRE & RESCUE
1015 39TH AVE SE
PUYALLUP, WA 98374

SCHEDULES
HVAC

ISSUED FOR PERMIT

ENGINEER: M RYPDAHL
LAST REVISED: 01-30-23
CHECKED BY: S HARGROVE
DATE PLOTTED: 01-30-23
CAD: M HAGBERG
ISSUE DATE: 01-30-23
DRAWING NUMBER: C-2682-73224116-00
SHEET NUMBER: TM0.02

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RS-10

PF

COLLEGE WAY

WILDWOOD PARK DR

29TH PL SE

RS-10

BRADLEY LAKE

SITE

MP

UCX

577'-6"

1038'-6"

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STEVEN R. HARGROVE
STATE OF WASHINGTON
44199
REGISTERED
PROFESSIONAL ENGINEER

01/26/2023

DATE REVISIONS:

DATE REVISIONS:

SHBTC BUILDING C
CENTRAL PIERCE FIRE & RESCUE
1015 39TH AVE SE
PUYALLUP, WA 98374

SITE PLAN

ISSUED FOR PERMIT

ENGINEER: M RYPDAHL
LAST REVISED: 01-30-23
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K J H G F E D

EXISTING VAV UNIT TO BE RELOCATED

VAV-101

28x18SL SA

18Ø

FD-1

32x16SL

12Ø 415 (TYP 4)

EAST LOBBY C126

STAIR 6 C118

UP

WH-104

ELEVATOR 6

20Ø

10Ø 25Ø

CORRIDOR C135

100SA

40'-6"

28X18SL

VAV-108

MEN'S RESTROOM C109

160EA

120EA

16Ø EXH DUCT UP

24x24 TRANSF

140EA

60EA

6x6 70 EXH

12 50 (T

ELEVATOR MACHINE ROOM

ELECTRICAL C123

EF-102

EF-101

WOMEN'S RESTROOM

MDF C124

WEST LOBBY

REMOVE TRANSFER GRILLE TO BE RE-INSTALLED TO SIDEWALL GRILLE TYP 2

48Ø DUCT STUBBED OUT OF SHAFT

54Ø ID 58Ø OD 2" K-27

VAV-106

STAIR 1 C116

WH-103

JANITOR C122

KEY PLAN

N

1/8" = 1'-0"

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PUYALLUP, WA 98374

1ST FLOOR PARTIAL DEMO PLAN
HVAC

ISSUED FOR PERMIT

ENGINEER: M RYPDAHL	LAST REVISED: 01-30-23
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CAD: M HAGBERG	ISSUE DATE: 01-30-23

DRAWING NUMBER: C-2682-73224116-00

SHEET NUMBER:

DM2.01

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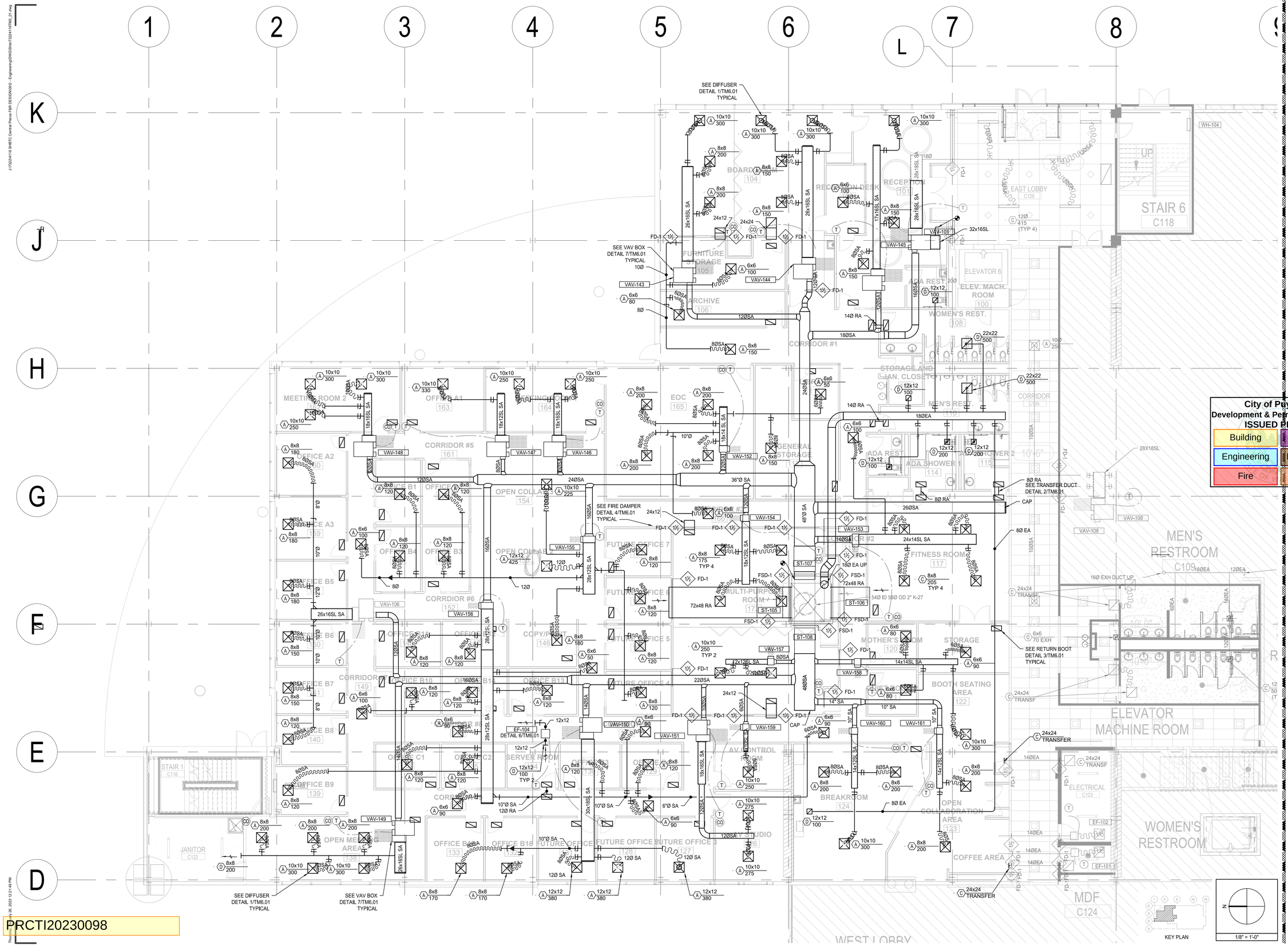

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STEVEN R. HARGROVE
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER

01/26/2023

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PUYALLUP, WA 98374

1ST FLOOR PARTIAL PLAN HVAC

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TM2.01

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Thursday, January 26, 2023 11:33:21 AM

1 2 3 4 5 6 7 8 9

K J H G F E D

L

STAIR 6
C218

10-6"

DN

VAV-201

FUTURE 14Ø PRIMARY AIR DUCT

16Ø

28x16SL SA

FD-1

10Ø 360 TYP.4

30x30 RA

DHP-201

1/4 RLQU 3/8 RSUC UP UP TO CU ON ROOF

DECK
C217

VAV-210

MEDIUM PRESSURE DUCTWORK TO BE INSTALLED IN FUTURE TI PHASE (TYP)

50 SF MIN CLEAR MECHANICAL SHAFT REQ'D & 50 SF OPENING REQ'D UP THRU ROOF, BOX OUT BOTTOM OF SHAFT ABOVE CEILING SEE DETAIL 2/TM6.01

48Ø DUCT STUBBED OUT OF SHAFT. FUTURE TI TO PROVIDE DUCT SILENCER ON DUCT (TYP 2)

72/48 RA OPN'G FUTURE TI TO PROVIDE DUCT SILENCER ON OPENING (TYP 2)

3" CHWS&R TAP FOR FUTURE

18"Ø UP TO EF-R03

SUITE 220
C204

540 ID 58Ø OD 2" K-27

FSD-1

18Ø EA DN

18ØEA

1-1/2 NG UP

6" CHWS&R UP

FIRE RATED 24"x24" SHAFT TO 1ST FLOOR

16ØEA

16"Ø DOWN 20"Ø UP TO EF ON ROOF

MEN
RESTR
C20

FIRE RATED SHAFT TO 1ST FLOOR

1-1/2" M-NG

6x6 70 EXH

24x24 TRANSF

DN

STAIR 1
C216

2-1/2" M-NG (WELDED)

2-1/2" MEDIUM PRESSURE NATURAL GAS DOWN TO METER PROVIDED BY OTHERS.

ELECTRICAL
C223

120RA

24x24 TRANSF

DN

STAIR 5
C282

EF-202

MDF
C224

76/20 RA TO HP-1

68/26 2" -SL SA DROP FROM HP-1

EF-201

14/1

120w (TYP11)

RA

OPEN TO BELOW

KEY PLAN

1/8" = 1'-0"

PRCTI20230098

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FACILITY SOLUTIONS
17930 Intl. Blvd. Suite 120, SeaTac, WA 98188
Phone: 206-763-9400 www.macmiller.com

01/26/2023

DATE

REVISIONS:

DATE

REVISIONS:

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

SHBTC BUILDING C
CENTRAL PIERCE FIRE & RESCUE
1015 39TH AVE SE
PUYALLUP, WA 98374

2ND FLOOR PARTIAL PLAN
HVAC

ISSUED FOR PERMIT

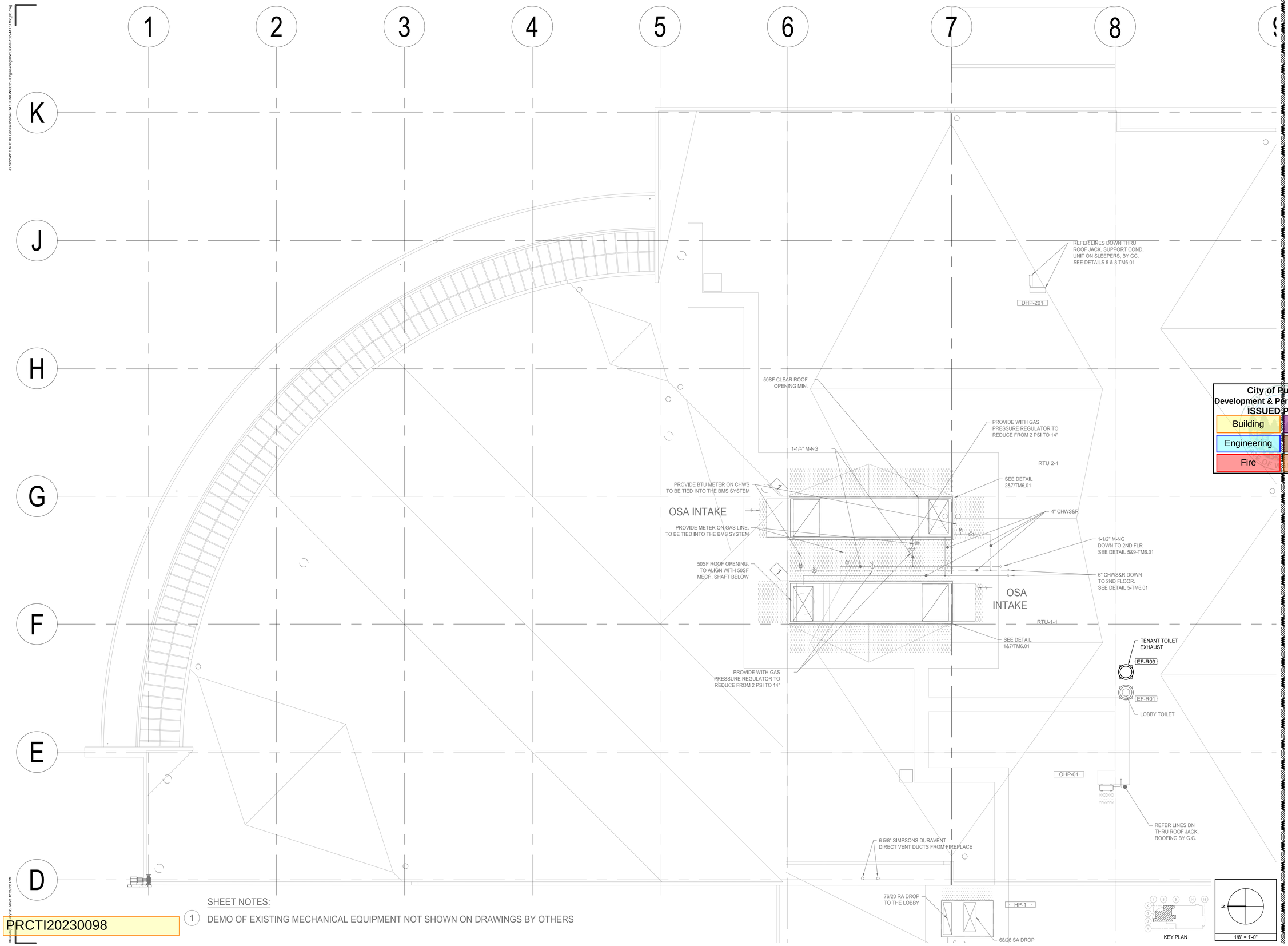
ENGINEER: M RYPDAHL	LAST REVISED: 01-30-23
CHECKED BY: S HARGROVE	DATE PLOTTED: 01-30-23
CAD: M HAGBERG	ISSUE DATE: 01-30-23

DRAWING NUMBER: C-2682-73224116-00

SHEET NUMBER:

TM2.02

J:\2024\116 SHBTC Central Pierce F&R DESIGN\002 - Engineering\DWG\Bldg\TM2241116TM2_03.dwg



SHEET NOTES:

1 DEMO OF EXISTING MECHANICAL EQUIPMENT NOT SHOWN ON DRAWINGS BY OTHERS

PRCTI20230098

Thursday, January 26, 2023 12:29:28 PM

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REVISIONS:

DATE

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

SHBTC BUILDING C
CENTRAL PIERCE FIRE & RESCUE
1015 39TH AVE SE
PUYALLUP, WA 98374

ROOF PARTIAL PLAN
HVAC

ISSUED FOR PERMIT

ENGINEER: M RYPDAHL	LAST REVISED: 01-30-23
CHECKED BY: S HARGROVE	DATE PLOTTED: 01-30-23
CAD: M HAGBERG	ISSUE DATE: 01-30-23

DRAWING NUMBER: C-2682-73224116-00

SHEET NUMBER:

TM2.03

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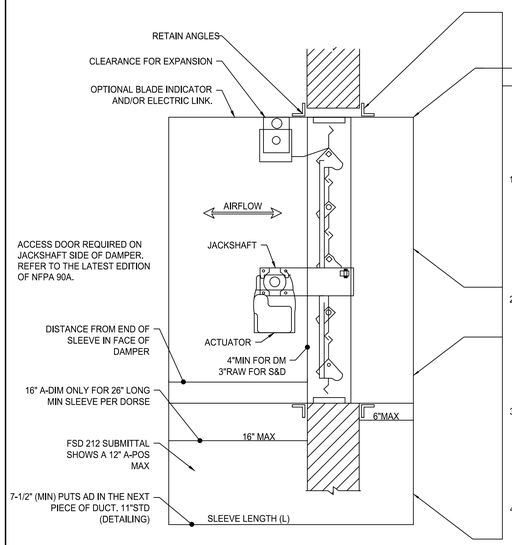
COMBINATION FIRE/SMOKE DAMPER INSTALLATION INSTRUCTIONS

1-1/2 AND 3 HOUR RATED
LISTED AND LABELED BY:

MANUFACTURES INSTALLATION INSTRUCTIONS TAKE PRIORITY. THIS INFORMATION MEANT TO SUPPLEMENT MANUFACTURES INFORMATION.



TYPE A & AS VERTICAL MOUNTING

DAMPERS SHALL BE SECURED TO COLLAR WITH NO. 10 SHEET METAL SCREWS 6" ON CENTER, 1/4" DIA. NUTS AND BOLTS, WELDING, OR 3/16" STEEL POP RIVETS.

SEE NOTES 2 AND 3 FOR JOINT DETAIL.

ANGLES SHALL BE A MINIMUM OR 1 1/2" X 1 1/2" X 16 GAUGE. FASTEN TO COLLAR WITH 1/4" DIAMETER NUTS AND BOLTS, WELDING 6" ON CENTER, NO. 10 SHEET METAL SCREWS 6" ON CENTER, OR 3/16" STEEL POP RIVETS. (SEE NOTE 4 FOR CLEARANCE AND OVERLAP.)

NOTES:

1. COLLARS SHALL BE OF THE SAME GAUGE OR HEAVIER AS THE DUCT TO WHICH IT IS ATTACHED. GAUGES SHALL CONFORM TO SMACNA OR ASH-RAE DUCT STANDARDS. COLLARS SHALL EXTEND APPROXIMATELY 3" ON EITHER SIDE OF WALL OR FLOOR TO FACILITATE THE JOINING OF THE COLLAR TO THE DUCT. IN CASES WHERE THE WIDTH OF THE RETAINING ANGLE IS SUCH THAT IT WOULD INHIBIT JOINING THE COLLAR TO THE DUCT, THE COLLAR MAY EXTEND APPROXIMATELY 2" BEYOND THE EDGE OF THE ANGLES. SEE NOTE 3.
2. THE FOLLOWING DUCT-COLLAR CONNECTIONS MAY BE USED ON ALL SYSTEMS:
   - INSIDE SLIP
   - PLAIN 'S' SLIP
   - HEMMED 'S' SLIP
   - BAR SLIP
   - ALTERNATE BAR SLIP (STANDING SLIP)
   - REINFORCED BAR SLIP (CLEAT)
   - ANGLE SLIP
   - DOUBLE 'S' SLIP
   - CUP SLIP
   - DRIVE SLIP
   - POCKET LOCK
3. WHEN THE DUCT WORK TERMINATES AT THE DAMPER, RETAINING ANGLES ON THE OPPOSITE SIDE OF THE OPENING MAY BE REVERSED PROVIDED THE SIZE OF THE OPENING IS INCREASED BY AN AMOUNT EQUAL TO TWICE THE COMBINED THICKNESS OF THE ANGLE AND THE HEIGHT OF THE SCREW OR BOLTHEAD TO MAINTAIN EXPANSION CLEARANCE. (SEE NOTE 4.) IN THIS CASE THE COLLAR AT THE OPEN END MAY BE MADE FLUSH WITH THE EDGE OF THE RETAINING ANGLE.
4. CLEARANCE BETWEEN THE COLLAR AND WALL/FLOOR OPENING SHALL BE 1/8" PER FOOT ON HEIGHT AND WIDTH OF COLLAR TO A MAXIMUM OF 1/2" (E.G. DAMPER 47 3/4" X 47 3/4", COLLAR 48" X 48", OPENING 48 1/2" X 48 1/2"). PERIMETER ANGLES SHALL OVERLAP THE WALL/FLOOR BY A MINIMUM OF 1".
5. MAXIMUM SINGLE DAMPER OF A MULTIPLE ASSEMBLY SHALL BE 36"X48". MAXIMUM MULTIPLE ASSEMBLY SHALL BE 72"X48".
6. IN CASES WHERE THE OPENINGS ARE LARGER THAN SPECIFIED IN NOTE 5, A 12" WIDE BRICK OR REINFORCED CONCRETE MULLION MUST BE PROVIDED BETWEEN ADJACENT ASSEMBLIES.
7. AS WITH ALL JOINTS, CONTRACTOR MUST SEAL DUCT-COLLAR CONNECTIONS, IN FIELD, AFTER INSTALLATION.
8. SUITABLE ACCESS SERVICE OPENINGS MUST BE PROVIDED TO MAKE FIRE DAMPERS ACCESSIBLE FOR INSPECTION AND SERVICING.
9. HORIZONTAL MOUNTINGS IDENTICAL.

IMPORTANT:

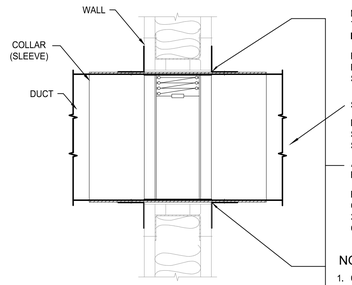
- DO NOT CAST DAMPER IN PLACE.
- DO NOT FASTEN RETAINING ANGLES OR DAMPER DIRECTLY TO WALL OR FLOOR.
- CYCLE DAMPER AFTER INSTALLATION TO INSURE FREE MOVEMENT.
- DO NOT INSTALL DAMPER OUT OF SQUARE OR OUT OF FLAT.
- INSTALL DAMPER IN PLANE OF FIRE SEPARATION.

NOTE:
CAUTION - HEAVY SPRING USED TO LOAD SPRINT LINK ACTUATOR. USE CARE IN RESETTING LINK.

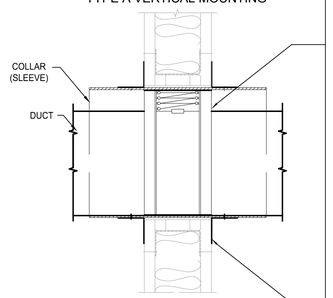
8 TM6.01 — FIRE/SMOKE DAMPER INSTALLATION DETAIL
N.T.S.

INSTALLATION INSTRUCTIONS FOR FIRE DAMPERS IN DRYWALL TYPE CONSTRUCTION 1 HR. AND 2 HR. RATED

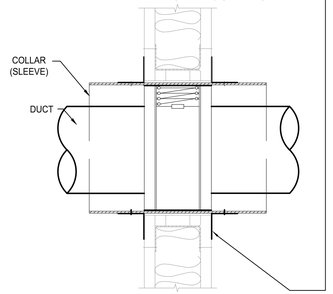
LISTED AND LABELLED BY:



TYPE A VERTICAL MOUNTING



TYPE B VERTICAL MOUNTING



TYPE C VERTICAL MOUNTING

MANUFACTURES INSTALLATION INSTRUCTIONS TAKE PRIORITY. THIS INFORMATION MEANT TO SUPPLEMENT MANUFACTURES INFORMATION.

REFER TO FIGURES 1, 2 AND 3 FOR DETAILS OF OPENING PREPARATION AND FIRE DAMPER INSTALLATIONS IN WOOD STUD AND STEEL STUD 1 HR. AND 2 HR. RATED WALLS.

SEE NOTES 2 AND 3 FOR JOINT DETAIL.

DAMPERS SHALL BE SECURED TO COLLAR WITH NO. 10 SHEET METAL SCREWS 6" ON CENTER, 1/4"Ø NUTS AND BOLTS, WELDING, OR 3/16" STEEL POP RIVETS.

ANGLES SHALL BE A MINIMUM OF 1 1/2" X 1 1/2" X 16 GAUGE ANDMAY BE OF A UNIT TYPE CONSTRUCTION.

FASTEN TO COLLAR WITH 1/4"Ø NUTS AND BOLTS, WELDING 8" ONCENTER, NO. 8 SHEET METAL SCREWS 8" ON CENTER, OR 3/16"STEEL POP RIVETS. (SEE NOTE 4 FOR CLEARANCE AND OVERLAP).

NOTES:

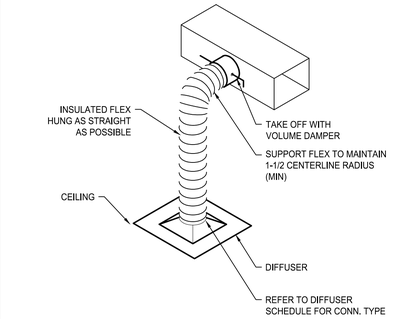
1. COLLARS SHALL BE OF THE SAME GAUGE OR HEAVIER AS THE DUCT TO WHICH IT IS ATTACHED. GAUGES SHALL CONFORM TO SMACNA OR ASHRAE DUCT STANDARDS. COLLARS SHALL EXTEND APPROXIMATELY 3" ON EITHER SIDE OF WALL OR FLOOR TO FACILITATE THE JOINING OF THE COLLAR TO THE DUCT, THE COLLAR MAY EXTEND APPROXIMATELY 2" BEYOND THE EDGE OF THE ANGLES. SEE NOTE 3.
2. THE FOLLOWING DUCT-COLLAR CONNECTIONS MAY BE USED ON ALL SYSTEMS.
   - INSIDE SLIP
   - PLAIN 'S' SLIP
   - HEMMED 'S' SLIP
   - BAR SLIP
   - ALTERNATE BAR SLIP (STANDING SLIP)
   - REINFORCED BAR SLIP (CLEAT)
   - ANGLE SLIP
   - DOUBLE 'S' SLIP
   - CUP SLIP
   - DRIVE SLIP
   - POCKET LOCK
3. WHEN THE DUCT WORK TERMINATES AT THE DAMPER, RETAINING ANGLES ON THE OPPOSITE SIDE OF THE OPENING MAY BE REVERSED PROVIDED THE SIZE OF THE OPENING IS INCREASED BY AN AMOUNT EQUAL TO TWICE THE COMBINED THICKNESS OF BY AN AMOUNT EQUAL TO TWICE THE COMBINED THICKNESS OF THE ANGLE AND THE HEIGHT OF THE SCREW OR BOLTHEAD TO MAINTAIN EXPANSION CLEARANCE. (SEE NOTE 4.) IN THIS CASE THE COLLAR AT THE OPEN END MAY BE MADE FLUSH WITH THE EDGE OF THE RETAINING ANGLE.
4. CLEARANCE BETWEEN THE COLLAR AND WALL/FLOOR OPENING SHALL BE 1/8" PER FOOT ON HEIGHT AND WIDTH OF COLLAR TO A MAXIMUMN OF 1/2" (E.G. DAMPER 47 3/4" X 47 3/4", COLLAR 48" X 48", OPENING 48 1/2" X 48 1/2"), PERIMETER ANGLES SHALL OVERLAP THE WALL/FLOOR BY A MINIMUM OF 1".
5. THE MAXIMUM SIZE OF FIRE DAMPER ASSEMBLIES, SINGLE OR MULTIPLE UNITS PERMITTED IS 48" IN WIDTH X 60" IN HEIGHT.
6. AS WITH ALL JOINTS, CONTRACTOR MUST SEAL DUCT-COLLAR CONNECTION, IN FIELD, AFTER INSTALLATION.

IMPORTANT:

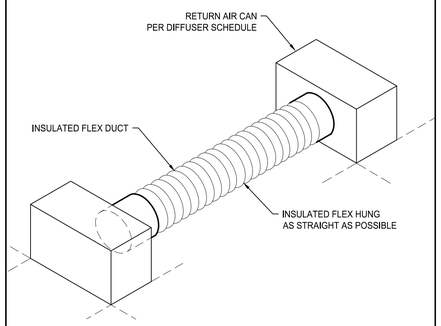
- DO NOT CAST DAMPER IN PLACE
- DO NOT FASTEN RETAINING ANGLES OR DAMPER DIRECTLY TO WALL.
- CYCLE DAMPER AFTER INSTALLATION TO INSURE FREE MOVEMENT.
- DO NOT INSTALL DAMPER OUT OF SQUARE OR OUT OF FLAT.
- INSTALL DAMPER IN PLANE OF FIRE SEPARATION.

NOTE:
SUITABLE ACCESS OPENINGS MUST BE PROVIDED TO MAKE FIRE DAMPERS ACCESSIBLE FOR INSPECTION & SERVICING. SEE IMC 607.

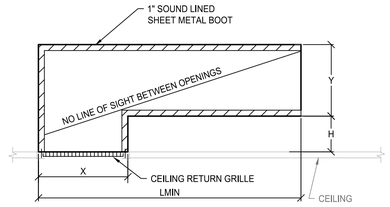
4 TM6.01 — VERTICAL FIRE DAMPER INSTALLATION DETAIL
N.T.S.



1 TM6.01 — DIFFUSER INSTALLATION DETAIL
N.T.S.

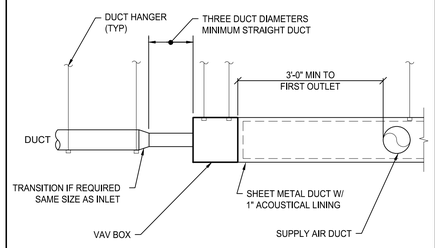


2 TM6.01 — DUCTED TRANSFER GRILLE INSTALLATION DETAIL
N.T.S.

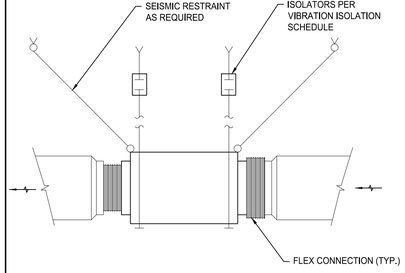


LMIN = (H+Y)/(H/X)+2"

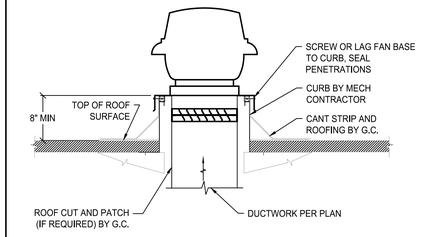
3 TM6.01 — RETURN AIR BOOT DETAIL
N.T.S.



7 TM6.01 — VAV BOX DETAIL
N.T.S.



6 TM6.01 — HORIZONTAL INLINE FAN DETAIL
N.T.S.



GENERAL NOTES:

1) EXACT DAMPER & CURB SIZE MUST BE CHECKED FROM EQUIPMENT SUBMITTALS. FINAL RESPONSIBILITY FOR CORRECT CURB & DAMPER SIZES BY INSTALLER.

5 TM6.01 — EXHAUST FAN INSTALLATION DETAIL
N.T.S.

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

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Thursday, January 26, 2023 12:54:06 PM

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DATE
REVISIONS:
REVISIONS:

SHBTC BUILDING C
CENTRAL PIERCE FIRE & RESCUE
1015 39TH AVE SE
PUYALLUP, WA 98374

DETAILS
HVAC

ISSUED FOR PERMIT

ENGINEER: M RYPDAHL	LAST REVISED: 01-30-23
CHECKED BY: S HARGROVE	DATE PLOTTED: 01-30-23
CAD: M HAGBERG	ISSUE DATE: 01-30-23

DRAWING NUMBER: C-2682-73224116-00

SHEET NUMBER:

TM6.01

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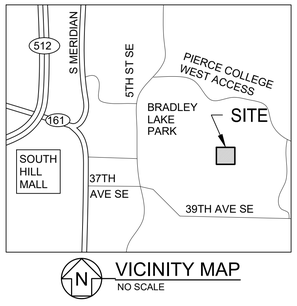
LEGAL DESCRIPTION

PIERCE COUNTY ASSESSOR'S PARCEL #: 0419034028

THAT PORTION OF THE SOUTHEAST QUARTER OF SECTION 3, TOWNSHIP 19 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN DESCRIBES AS FOLLOWS:

BEGINNING AT THE STONE MONUMENT MARKING THE SOUTH QUARTER CORNER OF SAID SECTION 3, WHICH MONUMENT IS NORTH 85°32'14" WEST, 2621.29 FEET FROM THE SOUTHEAST CORNER OF SAID SECTION 3; THENCE NORTH 00° 00' 00" WEST, 43.00 FEET TO THE NORTH MARGIN OF 39TH AVENUE SOUTHEAST AND THE TRUE POINT OF BEGINNING; THENCE CONTINUING NORTH 00° 00' 00" WEST, 2556.43 FEET TO THE SOUTH LINE OF THAT PARCEL DESCRIBED IN THE INSTRUMENT RECORDED UNDER AUDITOR'S NUMBER 8907240162; THENCE ALONG SAID SOUTH LINE SOUTH 87° 44' 11" EAST, 1613.77 FEET; THENCE SOUTH 00° 13' 09" WEST, 2247.13 FEET TO THE NORTH LINE OF THAT PARCEL DESCRIBED IN THE INSTRUMENT RECORDED UNDER AUDITOR'S NUMBER 8906300604; THENCE ALONG SAID NORTH LINE NORTH 86° 32' 14" WEST, 295.51 FEET TO THE WEST LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 3; THENCE ALONG SAID WEST LINE SOUTH 00° 06' 10" WEST, 332.62 FEET TO THE NORTH MARGIN OF 39TH AVENUE SOUTHEAST; THENCE ALONG SAID NORTH MARGIN NORTH 87° 02' 10" WEST, 1144.18 FEET; THENCE CONTINUING ALONG SAID NORTH MARGIN NORTH 86° 32' 14" WEST, 62.83 FEET TO THE EAST LINE OF THEAT PARCEL DESCRIBED IN THE INSTRUMENT RECORDED UNDER AUDITOR'S NUMBER 8301110221; THENCE ALONG SAID EAST LINE NORTH 00° 01' 51" WEST, 73.14 FEET; THENCE NORTH 86° 32' 14" WEST 59.11 FEET TOTHE SOUTHEASTERLY MARGIN OF THAT EASEMENT DESCRIBED IN THE INSTRUMENT RECORDED UNDER AUDITOR'S NUMBER 2433908; THENCE ALONG SAID SOUTHEASTERLY MARGIN SOUTH 45° 02' 12" WEST, 22.60 FEET; THENCE SOUTH 00° 01' 51" EAST, 56.19 FEET TO THE NORTH MARGIN OF 39TH AVENUE SOUTHEAST; THENCE ALONG SAID NORTH MARGIN NORTH 86° 32' 14" WEST, 28.03 FEET TO THE TRUE POINT OF BEGINNING.

SITUATE IN THE CITY OF PUYALLUP, COUNTY OF PIERCE, STATE OF WASHINGTON.



VICINITY MAP
NO SCALE

PRCTI20230098

Thursday, January 26, 2023 4:31:26 PM

PLUMBING GENERAL ABBREVIATIONS

ABBV	FULL NAME	ABBV	FULL NAME	ABBV	FULL NAME
AAV	AIR ADMITTANCE VALVE	DN	DOWN	NTS	NOT TO SCALE
ABV	ABOVE	DS	DOWNSPOUT	OFD	OVER FLOW DRAIN
AFF	ABOVE FINISHED FLOOR	DWG	DRAWING	POC	POINT OF CONNECTION
AP	ACCESS PANEL	E	EXISTING	PRV	PRESSURE REDUCING VALVE
BEL	BELOW	ELEV	ELEVATION	PVC	POLYVINYL CHLORIDE
BFP	BACKFLOW PREVENTER	ET	EXPANSION TANK	RD	ROOF DRAIN
BOP	BOTTOM OF PIPE	EWH	ELECTRIC WATER HEATER	RPBA	REDUCED PRESSURE BACKFLOW ASSY
BV	BALL VALVE	F	FIRE	TOG	TOP OF GRATE
BWV	BACK WATER VALVE	FCO	FLOOR CLEAN OUT	UG	UNDER GROUND
CB	CATCH BASIN	FD	FLOOR DRAIN	UNO	UNLESS NOTED OTHERWISE
CFF	CAP FOR FUTURE	FU	FIXTURE UNIT	VTR	VENT THRU ROOF
CI	CAST IRON	GI	GREASE INTERCEPTOR	W/	WITH
CL	CENTER LINE	GPM	GALLONS PER MINUTE	WCO	WALL CLEAN OUT
CO	CLEAN OUT	GWH	GAS WATER HEATER	WH	WALL HYDRANT
CPVC	CPVC MATERIAL	HB	HOSE BIBB	WHA	WATER HAMMER ARRESTOR
DCBP	DOUBLE CHECK BACKFLOW PREVENTER	HP	HIGH PRESSURE	WM	WATER METER
DCVA	DOUBLE CHECK VALVE ASSEMBLY	IE	INVERT ELEVATION	YH	YARD HYDRANT
DEMO	DEMOLISH	MH	MANHOLE		
DFU	DRAINAGE FIXTURE UNIT	NIC	NOT IN CONTRACT		

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	ABBV	SYMBOL	DESCRIPTION	ABBV
	BALANCING VALVE	BALV		GAS COCK	GC
	GATE VALVE	GV		VERTICAL EXPANSION TANK	VET
	GLOBE VALVE	GLV		TEMPERATURE GAUGE	TG
	BALL VALVE - FULL PORTED	BV		THERMOMETER	THERM
	SILENT CHECK VALVE	CV		BALL VALVE W/ 3/4" HOSE ADAPTOR	BV W/ HA
	REDUCED PRESS. BACKFLOW PREVENTER	RPBP		CONCENTRIC REDUCER	CR
	BACKFLOW PREVENTER	BFP		TWO-WAY CONTROL VAVLE	2WAY
	UNION	UNION		THREE-WAY CONTROL VALVE	3WAY
	STRAINER	STRN		POINT OF CONNECTION	P.O.C.
	PRESSURE RELIEF VALVE	PTV		PIPE BREAK - PIG TAIL	
	PRESSURE REDUCING VALVE	PRV	6" CHWS	PIPE - SIZE & ABBREVIATION	
	PRESSURE / TEMPERATURE PORT	P/T	6" CHWS	PIPE - SIZE & ABBREVIATION WITH INSULATION	
	PRESSURE GAUGE	PG		PUMP CIRCULATION	
	SOLENOID VALVE	SV		ROOF DRAIN (RISER)	RD
	PIPE - HEAT TRACE			OVER-FLOW DRAIN (RISER)	OD
	HOSE BIB	HB		60° OFFSET FOR SUDS	60° OFST
	SUB-METER WATER FLOW	MTR		EXPANSION THERMAL	EXP
	WATER HAMMER ARRESTOR	WHA		DOMESTIC PEX MANIFOLD	MFLD
	FLEX PIPE			PLUMBING TRAP	TRAP
	VENT THROUGH ROOF	VTR	FLTR-1	PLUMBING FIXTURE N.I.C. TAG	
	FLOOR CLEANOUT		WC-1	PLUMBING FIXTURE TAG	
	WALL CLEANOUT		WTR-1	PLUMBING EQUIPMENT TAG	
	FLOOR DRAINS		1/2% SLOPE	1/16" PER FOOT PIPE SLOPE	
	FLOOR SINKS		1%SLOPE	1/8" PER FOOT PIPE SLOPE	
	ROOF, OVERFLOW, AND COMBINATION DRAINS		2% SLOPE	1/4" PER FOOT PIPE SLOPE (TYP. UNO)	

PLUMBING SYSTEM LEGEND

LINE TYPE	FULL NAME	ABBR	LINE TYPE	FULL NAME	ABBR
	DOMESTIC WATER			**SANITARY SEWER**	
	DOMESTIC COLD WATER	DCW	IW	INDIRECT WASTE	IW
	DOMESTIC HOT WATER	DHW	V	VENT	V
	DOMESTIC HOT WATER CIRC	DHWC	W	WASTE	W
			SS	SANITARY SEWER	SS

CONTACT LIST REFERENCE ONLY

TITLE	NAME	COMPANY	PHONE NUMBER	EMAIL
ACCOUNT MANAGER	STEVE FLINK	MACDONALD MILLER	253-680-3172	STEVE.FLINK@MACMILLER.COM
HVAC ENGINEER	STEVE HARGROVE	MACDONALD MILLER	206-768-4000	STEVE.HARGROVE@MACMILLER.COM
MECHANICAL DESIGNER	MARC RYPDAHL	MACDONALD MILLER	503-262-5418	MARC.RYPDAHL@MACMILLER.COM
PLUMBING DESIGNER	KIM LARSEN	MACDONALD MILLER	206-768-4116	KIM.LARSEN@MACMILLER.COM

PLUMBING SCOPE OF WORK

LEVEL 1 FIXTURES AND EQUIPMENT:
(13) WATER CLOSETS, (3) URINALS, (8) LAVATORIES, (2) SHOWERS, (2) FLOOR DRAINS W/ TRAP PRIMERS, (1) JANITOR SINK, (1) DUAL HEIGHT DRINKING FOUNTAIN, (3) SINKS, (2) HUB DRAINS W/ TRAP PRIMERS, (2) WATER CONNECTIONS TO REFRIGERATORS, (2) WATER CONNECTIONS TO COFFEE MAKERS W/ REDUCED PRESSURE BACKFLOW PREVENTERS, (1) WATER HEATER WITH RECIRC PUMP AND EXPANSION TANK.

RELOCATE (1) FLOOR SINK TO NEW LOCATION.

GENERAL SHEET LIST - PLUMBING

SHEET NUMBER	SHEET NAME	SHEET NUMBER	SHEET NAME
TP0.01	SCHEDULES - PLUMBING	TP4.01	RISERS - PLUMBING
TP0.02	SCHEDULES - PLUMBING	TP6.01	DETAILS - PLUMBING
TP1.01	FOUNDATION PARTIAL PLAN - PLUMBING		
DP1.01	FOUNDATION PARTIAL DEMO PLAN - PLUMBING		
TP2.01	1ST FLOOR PARTIAL PLAN - PLUMBING		
DP2.01	1ST FLOOR PARTIAL DEMO PLAN - PLUMBING		
TP2.02	2ND FLOOR PARTIAL PLAN - PLUMBING		
DP2.02	2ND FLOOR PARTIAL DEMO PLAN - PLUMBING		

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

PLUMBING GENERAL NOTES - WASHINGTON

1. THIS PROJECT WAS DESIGNED UNDER THE 2018 EDITION OF THE UNIFORM PLUMBING CODE WITH WASHINGTON STATE AMENDMENTS. MATERIALS, METHODS AND INSTALLATION SHALL COMPLY WITH THESE PROVISIONS.
2. WATER SYSTEM IS DESIGNED PER THE FOLLOWING PARAMETERS AND REQUIREMENTS:
   -STATIC WATER PRESSURE TO FIXTURES SHALL NOT EXCEED 80 PSIG (608.2)
   -DESIGNED MAXIMUM DCW VELOCITIES SHALL NOT EXCEED 8 FPS & DHW SHALL NOT EXCEED 5 FPS (610.6 and 610,12)
   -PRESSURE LOSSES FOR IN-LINE DEVICES HAVE BEEN INCLUDED IN THE ABOVE PRESSURE CALCULATIONS (610.2)
   -WATER SIZING IS AS PER APPENDIX A (Table 103.1)
   -WATER CONNECTIONS TO MECHANICAL EQUIPMENT, STEAM PRODUCING EQUIPMENT, DISHWASHERS THAT INJECT DETERGENT INTO THE WATER LINE, CARBONATORS, OR ANY OTHER CONDITION WHERE A CROSS CONNECTION OF THE MAIN WATER SYSTEM MAY OCCUR, A REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY AND ASSOCIATED DRAIN PIPING MUST BE PROVIDED.
   -WATER DISINFECTION TEST SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 609.9 PRIOR TO FINAL APPROVAL OF PLUMBING PERMIT.
   -ALL ITEMS IN THE DOMESTIC WATER DISTRIBUTION SYSTEM MUST SHOW COMPLIANCE WITH NSF-61 LEAD FREE REQUIREMENTS. DOCUMENTATION MUST BE AVAILABLE ON SITE.
   -PROVIDE WATER PIPING IDENTIFICATION ON PIPING PER TABLE 601.3.2.
   -LIMITATION OF HOT WATER TEMPERATURE TO PLUMBING FIXTURES SHALL BE IN ACCORDANCE WITH UPC CHAPTER 4 .
3. THESE PLANS ARE SCHEMATIC AND DO NOT SHOW EXACT ROUTING OR EVERY OFFSET WHICH MAY BE REQUIRED. THE PLUMBING CONTRACTOR IS TO COORDINATE WITH ALL OTHER TRADES AND IS TO VERIFY ALL CLEARANCES BEFORE COMMENCING WORK.
4. ALL PIPE SIZES NOTED ON DRAWINGS ARE MINIMUMS.
5. SLOPE ALL WASTE PIPING AT 2% UNLESS OTHERWISE NOTED ON DRAWINGS. OBTAIN APPROVAL FROM CODE AUTHORITY BEFORE INSTALLING WASTE PIPING AT LESS THAN 2% (EVEN IF LESSER SLOPE IS INDICATED ON DRAWINGS).
6. HANGERS AND SUPPORTS FOR PIPING SHALL BE IN ACCORDANCE WITH SECTION 313 AND TABLES 313.3 AND 313.6 OF THE 2018 UNIFORM PLUMBING CODE WITH WASHINGTON STATE AMENDMENTS.
7. PIPING PENETRATIONS OF FIRE RATED WALLS OR FLOORS SHALL BE SLEEVED AND FIRE STOPPED WITH LISTED MATERIALS SO AS TO MAINTAIN THE INTEGRITY AND RATING OF THE FLOOR OR WALL.
8. FOR EXACT ROUGH-IN LOCATIONS AND ELEVATIONS OF PLUMBING FIXTURES REFER TO ARCHITECTURAL DRAWINGS.
9. PROVIDE STOPS OR ANGLE VALVES AT ALL FIXTURES
10. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS.
11. PROVIDE DIELECTRIC CONNECTIONS BETWEEN DISSIMILAR METALS.
12. CLEANOUTS SHALL BE INSTALLED SO THEY ARE EASILY ACCESSIBLE.
13. PLUMBING EQUIPMENT, VALVES AND TRAP PRIMERS SHALL BE LOCATED IN EASILY ACCESSIBLE LOCATIONS. UNLESS SHOWN ON ARCHITECTURAL DRAWINGS, REQUIRED ACCESS PANELS SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
14. FLOORS SHALL SLOPE TO FLOOR DRAINS WHERE DRAINAGE OCCURS ON A REGULAR BASIS. PLUMBER TO COORDINATE WITH GENERAL CONTRACTOR FOR EXACT ELEVATION OF DRAIN. (EXAMPLES TOILET ROOMS, KITCHENS AND LAUNDRY ROOMS)
15. THE PLUMBER SHALL PROVIDE AND LOCATE ALL REQUIRED FLOOR, WALL, AND FOOTING SLEEVES.
16. TRENCHING, BACKFILLING, AND COMPACTING FOR UNDERGROUND PIPING SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR UNLESS STATED OTHERWISE IN CONTRACT DOCUMENTS.
17. PIPING BURIED IN THE SLAB TO HAVE A PROTECTIVE SLEEVE.
18. VENTS FROM FLOOR MOUNTED FIXTURES SHALL RISE VERTICALLY TO AT LEAST 6" ABOVE THE FLOOD RIM OF THE FIXTURE, UNLESS STRUCTURAL CONDITIONS PROHIBIT A CONTINUOUS VENT. WHERE A "FLAT VENT" IS USED, IT SHALL BE INSTALLED WITH DRAINAGE FITTINGS AND SLOPE BACK TO THE FIXTURE AT STANDARD 2% SLOPE.

PLUMBING PIPING MATERIAL SCHEDULE

LOCATION	PIPING	SIZE	MATERIAL (FOOTNOTE)	JOINT
UNDERGROUND	SANITARY WASTE	ALL	CAST IRON (g, m)	NO HUB
	SANITARY VENT	ALL	CAST IRON (g)	NO HUB
	TRAP PRIMER	1/2"	PEX (d)	MFR APPROVED
ABOVE GROUND	DOMESTIC WATER	1/2" TO 2"	COPPER TYPE L (c)	PRESSED MECH JOINT
	DOMESTIC WATER	2-1/2" AND LARGER	304L STAINLESS STEEL SCH 10 (e)	WELDED/GROOVED VIC
	SANITARY WASTE	ALL	CAST IRON (g, i, m, n, o)	NO HUB
	SANITARY VENT	ALL	CAST IRON (g, i, n, o)	NO HUB
	TRAP PRIMER	1/2"	PEX (a, b, d)	MFR APPROVED

FOOTNOTES:

(a) ACCEPTABLE FOR PLENUM USE IN SIZES 1/2" THROUGH 1".
(b) PIPE SHALL BE SUPPORTED IN CHANNEL IN ACCORDANCE WITH THE PEX MANUFACTURERS INSTALLATION INSTRUCTIONS. (CHANNEL SUPPORT NOT REQUIRED FOR VERTICAL PIPING, PIPING INSIDE WALLS, OR PLUMBING CHASES)
(c) PRESSURE LIMIT OF 200 PSI
(d) LIMITED TO 80 PSI @ 200° F
(e) AT THE INSTALLERS' DISCRETION, WELDED OR GROOVED FIELD JOINTS MAY BE USED (USE 316L STAINLESS STEEL COUPLINGS FOR UNDERGROUND INSTALLATIONS)
(f) USE SS 316 COUPLINGS
(g) STANDARD NO-HUB BANDS
(h) FOLLOW PROJECT ACCOUSTICAL REQUIREMENTS. (PVC MAY BE USED INSIDE MECHANICAL SPACES & RESTROOM CHASES)
(i) FOLLOW PROJECT & JURISDICTIONAL FLAME / SMOKE SPREAD FIRESTOPPING REQUIREMENTS
(j) ONLY ALLOWED OUTSIDE BUILDING FOOTPRINT
(k) GREASE WASTE PIPING PROVIDED WITH HEAT TRACING MUST BE NO HUB CAST IRON. PROVIDE DRAIN COOLER ASSEMBLY AT LOCATIONS WHERE WASTE DISCHARGE TEMPERATURE IS 120° F OR HIGHER
(l) WELDED GAS PIPING TO BE IN ACCORDANCE WITH THE LOCAL MUNICIPAL CODE, LOCAL FUEL GAS CODE "WELDING", & ASME BOILER & PRESSURE VESSEL CODE SECTION IX.
(m) WASTE PIPING THAT CONVEYS CARBONATED LIQUID FROM BEER OR SODA DISPENSERS IS CORROSIVE IN NATURE & MUST BE INSTALLED USING PVC-DWV OR STAINLESS STEEL MATERIAL. CONNECT CARBONATED LIQUID WASTE TO MAIN OR BRANCH PIPING LOCATED DOWNSTREAM OF FREQUENTLY USED FIXTURES TO PROVIDE DILLUTION & PREVENT CORROSION OF METAL DRAINAGE SYSTEMS
(n) AT THE INSTALLERS' DISCRETION, 6" & LARGER PVC MAY BE USED FOR VERTICAL STACK INSTALLATIONS (EXCEPT WITHIN PLENUM SPACES & OTHER AREAS LISTED HEREIN WHERE CAST IRON MUST BE USED)
(o) DWV STACKS / WET COLUMNS FOR FUTURE TENANT CONNECTIONS & PIPING LOCATED WITHIN OPEN CEILINGS / TENANT WORK SPACES MUST BE CAST IRON ONLY
(p) PIPE / FITTING MATERIAL MUST BE PROVIDED AS SCHEDULED, IN ACCORDANCE WITH OWNER STANDARDS

PIPING INSULATION SCHEDULE

PIPING TYPE	PIPE SIZE	INSULATION TYPE	INSULATION THICKNESS	CONDUCTIVITY RANGE
COLD WATER OVERHEAD AND EXPOSED TO SIGHT	ALL	FIBERGLASS	1/2"	0.21 - 0.27
COLD WATER WITHIN WALLS	NOT REQUIRED			
HOT WATER AND RECIRC (UP TO 140°F)	1/2" - 1-1/4"	FIBERGLASS	1"	0.21 - 0.28
	1-1/2" - 6"	FIBERGLASS	1-1/2"	0.21 - 0.28
HOT WATER AND RECIRC (141 TO 200°F)	1/2" - 1-1/4"	FIBERGLASS	1-1/2"	0.25 - 0.29
	1-1/2" - 6"	FIBERGLASS	2"	0.25 - 0.29
HOT WATER UNDERGROUND	1/2" - 2"	THERMA-CEL	1"	0.21 - 0.28
HORIZONTAL COIL CONDENSATE PIPING	ALL	ARMAFLEX	1/2"	

- ALL HOT WATER PIPING INSULATION SHALL MEET THE REQUIREMENTS OF THE WASHINGTON STATE ENERGY CODE, 2018 EDITION, TABLE C403.10.3
- ALL PIPING INSULATION AND COVERINGS SHALL HAVE AN ASTM FLAME SPREAD RATING OF 25 OR LESS AND AN ASTM SMOKE DEVELOPED RATING OF 50 OR LESS.
- ELASTOMERIC INSULATIONS WHICH MEET THESE RATINGS MAY BE USED AS A SUBSTITUTE FOR FIBERGLASS.
- PROVIDE A VAPOR BARRIER COVERING ON ALL ROOF DRAIN, RAIN LEADER, AND COLD WATER PIPING INSULATION.
- INSULATE THE OVERFLOW DRAIN BODY AND PIPE 10 FEET DOWN STREAM FROM THE DRAIN.
- PROVIDE A COVERING FOR ALL INSULATION EXPOSED TO SIGHT WITHIN THE BUILDING.
- PROVIDE AN INCOMPRESSIBLE INSULATED PAD WITH A MINIMUM THERMAL RESISTANCE OF R-10 UNDER ALL ELECTRIC WATER HEATERS IN UNCONDITIONED SPACES OR ON CONCRETE FLOOR.

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01/26/2023

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REVISIONS:
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SCHEDULES
PLUMBING

ISSUED FOR PERMIT

ENGINEER: K LARSEN
LAST REVISED: 01-30-23
CHECKED BY: D JACQUES
DATE PLOTTED: 01-30-23
CAD: M HAGBERG
ISSUE DATE: 01-30-23
DRAWING NUMBER: C-2682-73224116-00
SHEET NUMBER:

TP0.01

TP0.01 MAP

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ELECTRIC WATER HEATER SCHEDULE

NO.	LOCATION	TYPE	MANUFACTURER & MODEL NO.	INTERNAL STORAGE (GALLONS)	RECOVERY (GPH)	RECOVERY FLOW RATE (GPM)	PRESSURE DROP @ DESIGN FLOW (PSI)	TEMP RISE (°F)		OUTLET TEMP (°F)	ELECTRICAL				OPERATING WEIGHT (LBS)	ELEMENT QTY / WATTS	SIZE (INCHES)						NOTES
								SYSTEM EWT-LWT ΔºF	TOTAL °F		KW	THERMAL EFF	FLA	VOLTS / PHASE			DIA	L	W	H	COLD INLET	HOT OUTLET	
EWH-1-1	JAN ROOM 109	STORAGE WATER HEATER	AO SMITH DRE-120-12	119	63	1.05	1	40-120	80	120	12,3	-	15	480V / 3 PH	1560	(3) 4100	30"	35"	29"	63"	1-1/4"	1-1/4"	1, 2, 3, 4

NOTES:
1. UL LISTED.
2. ASME TANK, 150 PSIG STD WORKING PRESSURE.
3. ELECTRICAL TO PROVIDE POWER DISCONNECT.
4. REFER TO DETAIL FOR ADDITIONAL INFORMATION.

BACKFLOW PREVENTER SCHEDULE

SYMBOL	LOCATION	TYPE	SYSTEM	MANUFACTURER & MODEL NO.	SIZE	AIR GAP MODEL	MAX DESIGN FLOW PRESSURELOSS	WEIGHT (LBS)	NOTES
BFP-1-1	BOARDROOM 104 ALCOVE	REDUCED PRESSURE	DOMESTIC CW	WATTS LF009-QT	1/2"	909AGA	17 PSI @ 5 GPM	6	1, 2
BFP-1-2	BREAKROOM 124	REDUCED PRESSURE	DOMESTIC CW	WATTS LF009-QT	1/2"	909AGA	17 PSI @ 5 GPM	6	1, 2

NOTES:
1. PROVIDE WITH PRESSURE DIFFERENTIAL RELIEF VALVE LOCATED BETWEEN TWO INDEPENDENTLY OPERATED SPRING LOADED CHECK VALVES, TWO RESILIENT SEAT BALL VALVES AND FOUR RESILIENT SEATED BALL TEST COCKS, AND A "Y" STRAINER. W/ AIR GAP.

2. BRONZE CONSTRUCTION, ASSE 1013 & NSF-61 LISTED.

PLUMBING EQUIPMENT SCHEDULE

NO.	EQUIPMENT DESCRIPTION
SA-AA	SHOCK ARRESTOR - SIOUX CHIEF 652-AA, PDI RATED SIZE AA, 1/2" THREADED CONNECTION, SEALED CHAMBER WITH PISTON RATED FOR WALL CLOSURE.
SA-A	SHOCK ARRESTOR - SIOUX CHIEF 652-A, PDI RATED SIZE A, 1/2" THREADED CONNECTION, SEALED CHAMBER WITH PISTON RATED FOR WALL CLOSURE.
SA-B	SHOCK ARRESTOR - SIOUX CHIEF 653-B, PDI RATED SIZE B, 3/4" THREADED CONNECTION, SEALED CHAMBER WITH PISTON RATED FOR WALL CLOSURE.
SA-C	SHOCK ARRESTOR - SIOUX CHIEF 654-C, PDI RATED SIZE C, 1" THREADED CONNECTION, SEALED CHAMBER WITH PISTON RATED FOR WALL CLOSURE.
TP-1	TRAP PRIMER - PRECISION PLUMBING PRODUCTS MODEL MP-500-115V, MINI-PRIME ELECTRONIC TRAP PRIMER, 115 VOLT/1 PHASE, ADJUSTABLE RECYCLE TIMER, SOLENOID OPERATED, WITH AIR GAP. MAX 4 DRAINS. HORIZONTAL LINES SLOPE TO DRAIN. MAX 20' RECOMMENDED. ELECTRICAL TO PROVIDE DISCONNECT.
TP-2	TRAP PRIMER - SIOUX CHIEF TRAPEASE #206096 1-1/2" LAV TAILPIECE TRAP PRIMER. GRAVITY FED, FOR ONE DRAIN.
VR-1	VACUUM RELIEF - WATTS N36 M1, 0138457, AUTOMATICALLY VENTS IF VACUUM OCCURS, SIZE 1/2".
VR-2	VACUUM RELIEF - WATTS N36 M1, 0138458, AUTOMATICALLY VENTS IF VACUUM OCCURS, SIZE 3/4".

PUMP SCHEDULE

NO.	TYPE	LOCATION	MANUFACTURER & MODEL NUMBER	GPM	DISCHARGE PRESSURE		DISCHARGE SIZE	MOTOR (EACH)			WT LBS	POWER TYPE	NOTES
					FtHd	PSIG		HP	RPM	VOLT/ PH			
HWC-1-1	DHW RECIRCULATION	LEVEL 9 JAN ROOM	GRUNDFOS ALPHA 2 15-55SF ECM SERIES	3	10	4.3	3/4"	5-45 WATTS	-	115/1	6	NORMAL	1, 2

NOTES:
1. HOT WATER RETURN SYSTEM, IN-LINE, CLOSE COUPLED, WET ROTOR TYPE, VARIABLE FLOW/PRESSURE, ALL BRONZE OR STAINLESS STEEL CONSTRUCTION.

2. ELECTRONICALLY COMMUTATED MAGNETIC MOTOR. PUMP WIRED TO JUNCTION BOX WITH ON / OFF DISCONNECT (BY ELECTRICAL). PROVIDE WITH 7/24/365 DAY PROGRAMMABLE TIMECLOCK.

FIXTURE CONNECTION SCHEDULE

NO.	FIXTURE	LOCAL CONNECTION			
		WASTE	VENT	HOT	COLD
WC-1	WATER CLOSET - SLOAN (2102459) ST-2459 , WALL MOUNTED FLUSH VALVE, BEMIS 1955CT SEAT LESS COVER, WHITE, SLOAN (3910168) ROYAL 111-1.28 SERIES 1.28 GAL MANUAL FLUSH VALVE, WATTS ISCA-101-D OR L/R SERIES WALL CARRIER REQUIRED.	4"	2"	-	1"
WC-2	ADA WATER CLOSET - SLOAN (2102459) ST-2459, WALL MOUNTED FLUSH VALVE, ELONGATED, SIPHON JET, MOUNT W/RIM AT 17" AFF, BEMIS 1955CT SEAT LESS COVER, WHITE, SLOAN (3910168) ROYAL 111-1.28 SERIES 1.28 GAL MANUAL FLUSH VALVE, WATTS ISCA-101-D OR L/R SERIES WALL CARRIER REQUIRED. (FLUSH HANDLE TO POINT TO WIDE PART OF STALL).	4"	2"	-	1"
UR-1	URINAL - SLOAN (1101009) SU-1009 SIPHON JET, WHITE, SLOAN (3912633) ROYAL 186-0.125-DBP, MANUAL FLUSH VALVE, 0.125 GALLON PER FLUSH, (MOUNT W/ RIM 24" AFF).	2"	1 1/2"	-	3/4"
UR-2	ADA URINAL - SLOAN (1101009) SU-1009 SIPHON JET, WHITE, SLOAN (3912633) ROYAL 186-0.125-DBP, MANUAL FLUSH VALVE, 0.125 GALLON PER FLUSH, (MOUNT WITH RIM 17" AFF).	2"	1 1/2"	-	3/4"
L-1	ADA LAVATORY - SLOAN (3873001) SS-3001 UNDERCOUNTER LAVATORY, WHITE, SLOAN EAF-100-PLG-ISM-CP-0.5GPM-MLM-IR-IQ-FCT HARD WIRED PLUG-IN SENSOR FAUCET, SLOAN ETF-312-A-CP VALVE TRIM PLATE, W/ SLOAN ESD-300-LT-CP HARD WIRED SOAP DISPENSER, W/ SLOAN MIX-135-A (ASSE 1070) THERMOSTATIC MIXING VALVE WITH WALL BRACKET, DEARBORN 760-1 1 1/4" CP GRID DRAIN, BRASSCRAFT G2CR19 STOPS, FLUIDMASTER B1F20 20" CONNECTORS, 1 1/4" CP 17 GA P-TRAP. (PROVIDE TRUEBRO LAV-GUARD LAVATORY COVER INSULATION KIT #102EZ. (WHITE).	1 1/2"	1 1/2"	1/2"	1/2"
S-1	ADA BREAK ROOM SINK - ELKAY ELUH211555 UNDERMOUNT STAINLESS STEEL SINGLE COMPARTMENT SINK, ELKAY LK6000-LS W/ BASE-PLATE & PULL DOWN SPRAY FAUCET, LUSTROUS STEEL FINISH, 1.5 GPM, BRASSCRAFT G2CR19 STOPS, FLUIDMASTER B1F20 20" CONNECTORS, 1/2 HP BADGER 5 GARBAGE DISPOSER, 115V/1PH, ELECTRICAL TO PROVIDE SWITCHED RECEPTACLE BELOW SINK.	2"	1 1/2"	1/2"	1/2"
S-2	ADA MOTHER'S ROOM SINK - ELKAY ELUHAD131655PD UNDERMOUNT STAINLESS STEEL SINGLE COMPARTMENT SINK, 16"x18,5", 5" DEEP, ELKAY LKAV3032CR GOOSNECK PULL-DOWN SPRAY FAUCET W/ SINGLE HANDLE, CHROME FINISH, 1.75 GPM, DEARBORN BRASS DB1120 SINK STRAINER, BRASSCRAFT G2CR19 STOPS, FLUIDMASTER B1F20 20" CONNECTORS, 1 1/2" CP 17 GA P-TRAP.	1 1/2"	1 1/2"	1/2"	1/2"
S-3	ADA BAR SINK - ELKAY ELUHAD191650, SINGLE HOLE, 5" DEEP STAINLESS STEEL UNDERMOUNT SINK W/ OFFSET DRAIN, ELKAY LKD24898BHC FAUCET, 1.5 GPM, DEARBORN BRASS DB1120 SINK STRAINER, BRASSCRAFT G2CR19 STOPS, FLUIDMASTER B1F20 20" CONNECTORS, 1 1/2" CP 17 GA P-TRAP.	1 1/2"	1 1/2"	1/2"	1/2"
JS-1	JANITOR SINK - MUSTEE 63M 24x24 MOP BASIN, W/CHICAGO 897-CP SERVICE FAUCET W/WALL BRACKET AND VACUUM BREAKER, MUSTEE 65.700 HOSE & WALL BRACKET.	3"	1 1/2"	1/2"	1/2"
DF-1	ADA DOUBLE WATER COOLER - OASIS PG8SBFSL-STN W/ BOTTLE FILLER, STAINLESS STEEL FINISH, TWO LEVEL, BRASSCRAFT G2CR19 STOP, FLUIDMASTER B6F20 20" CONNECTOR, 1 1/2" PVC P-TRAP, 115 V/1 PHASE, 4.8 FLA, 8.0 GPH. ELECTRICAL TO PROVIDE POWER RECEPTICAL.	1 1/2"	1 1/2"	-	1/2"
SH-1	ADA ROLL-IN SHOWER - AQUATIC MODEL 1603BFSD, WHITE, 62" W X 36.25" D OD, W/GRAB BARS, BARS, FOLD-UP SEAT (SPECIFY RIGHT OR LEFT), SHOWER ROD, SYMMONS 282XBODY-BR PRESSURE BALANCE VALVE W/ INSTALLATION BRACKET, INTEGRAL STOPS, SYMMONS 9603-PLR-T724-72-1.5-TRM TRIM, 1.5 GPM SHOWER HEAD W/ 24" GLIDE BAR, 72" METAL BRAIDED FLEX HOSE, PUSH BUTTON 1.5 GPM HAND SPRAY, SYMMONS EF-109 INLINE VACUUM BREAKER, OATEY 101BR CP BRASS SHOWER DRAIN.	2"	1 1/2"	1/2"	1/2"
DW-1	DISHWASHER - OWNER FURNISHED, ROUGH-IN AND CONNECT, DEARBORN AIR GAP CD-4P WASTE FITTING WITH FLEXIBLE TUBING CONNECTORS, BRASSCRAFT G2CR19 STOPS, FLUIDMASTER B6W60 FOR A COMPLETE INSTALLATION, APPLIANCE BY OTHERS.	ID	-	1/2"	-
EC-1	EQUIPMENT WATER CONNECTION - SIOUX CHIEF 696-G1010PF OX BOX, SHUT-OFF VALVE IN ABS BOX W/ HAMMER ARRESTOR, WHITE, W/ 1/4" TUBING OUTLET, 1/2" CU TUBE CONNECTION, APPLIANCE AND FINAL CONNECTION BY OTHERS. FOR PEX CONNECTION, USE SIOUX CHIEF 696-G1010WF OX BOX.	-	-	-	1/2"

DRAIN CONNECTION SCHEDULE

NO.	DRAIN DESCRIPTION	LOCAL CONNECTION		
		WASTE	VENT	STORM
FD-1	FLOOR DRAIN - WATTS FD-102P-A5, PUSH-ON, EPOXY COATED CAST IRON BODY W/ ANCHOR FLANGE, W/ 5" ROUND ADJUSTABLE NICKEL BRONZE STRAINER. REVERSIBLE CLAMPING COLLAR W/ WEEPHOLES. WITH TRAP PRIMER.	2"	1 1/2"	-
FF-1	FUNNEL HUB DRAIN - WATTS MS-952-F4-1, FUNNEL ADAPTOR W/ SEALING GASKET, NO-HUB, W/ 4" ROUND NICKEL BRONZE FUNNEL. P-TRAP INSTALLED SEPARATELY. WITH TRAP PRIMER.	2"	1 1/2"	-
FS-1	FLOOR SINK - WATTS FS-764P-150, 12" ROUND x 8" DEEP, CAST IRON W/A.R.E. INTERIOR & GRATE, 1/2 GRATE, WITH ANTI-SPLASH POLYPROPYLENE BOTTOM DOME STRAINER, INSTALL FLOOD LEVEL RIM FLUSH W/FIN FLR, NO-HUB. WITHOUT TRAP PRIMER.	4"	2"	-

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STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER
01/26/2023

DATE
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DATE
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SCHEDULES
PLUMBING

ISSUED FOR PERMIT

ENGINEER: K LARSEN
LAST REVISED: 01-30-23
CHECKED BY: D JACQUES
DATE PLOTTED: 01-30-23
CAD: M HAGBERG
ISSUE DATE: 01-30-23
DRAWING NUMBER: C-2682-73224116-00
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Thursday, January 26, 2023 3:13:46 PM

1 2 3 4 5 6 7 8 9

K J H G F E D

HE. 478.71'
@ P.O.C.

I.E.=478.25'

EXISTING MANHOLE # 1
I.E. 470.93'

EXISTING 3" WASTE, CONN. TO SAN. SEWER
I.E. =481.33
T. 0+13

EXISTING 8" SAN. SEWER

PITCH LINE

SP-1-2 6 TP6.01

UP TO FCO

UP TO FD-2

6"RL UP

3"RL UP

4"RL UP

2"W POC TO EXIST

2"W

2"W UP

3"W UP

2"V UP

2"PW UP

4"W UP

4"W DROP TO EXIST 6"W POC

4"UP TO FCO

6"W UP

EXISTING 8" SAN SEWER

3"W

2"W POC TO EXIST

2"W UP

2"W

2"W POC TO EXIST

3"W UP

3"RL UP

G. SEW. -53'

KEY PLAN

N

1/8" = 1'-0"

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REGISTERED
PROFESSIONAL ENGINEER

01/26/2023

DATE REVISIONS:

DATE

REVISIONS:

City of Puyallup
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SHBTC BUILDING C
CENTRAL PIERCE FIRE & RESCUE

1015 39TH AVE SE
PUYALLUP, WA 98374

FOUNDATION PARTIAL PLAN

PLUMBING

ISSUED FOR PERMIT

ENGINEER: K LARSEN	LAST REVISED: 01-30-23
CHECKED BY: D JACQUES	DATE PLOTTED: 01-30-23
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01/26/2023

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FOUNDATION PARTIAL DEMO PLAN
PLUMBING

ISSUED FOR PERMIT

ENGINEER: K LARSEN
LAST REVISED: 01-30-23
CHECKED BY: D JACQUES
DATE PLOTTED: 01-30-23
CAD: M HAGBERG
ISSUE DATE: 01-30-23
DRAWING NUMBER: C-2682-73224116-00
SHEET NUMBER:

DP1.01

PRCTI20230098

KEY PLAN

1/8" = 1'-0"

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NOTES:

1. 4" WASTE UP
2. 2" WASTE UP
3. 2" VENT UP
4. 3" WASTE UP

SEE REVISED PLUMBING LAYOUT WITH REDUCED WC TO 5

City of Puyallup
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DAVID L. JACQUES
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER

01/26/2023

DATE
REVISIONS:
DATE
REVISIONS:

SHBTC BUILDING C
CENTRAL PIERCE FIRE & RESCUE
1015 39TH AVE SE
PUYALLUP, WA 98374

1ST FLOOR PARTIAL PLAN
PLUMBING
ISSUED FOR PERMIT

ENGINEER: K LARSEN	LAST REVISED: 01-30-23
CHECKED BY: D JACQUES	DATE PLOTTED: 01-30-23
CAD: M HAGBERG	ISSUE DATE: 01-30-23
DRAWING NUMBER: C-2682-73224116-00	
SHEET NUMBER: TP2.01	

KEY PLAN

1/8" = 1'-0"

PRCTI20230098

Thursday, January 26, 2023 4:32:11 PM

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Thursday, January 26, 2023 4:32:14 PM

NOTES:

1. 4" WASTE UP
2. 2" WASTE UP
3. 2" VENT UP
4. 3" WASTE UP

3/4"CW DROP
WH-1
6" RL. UP & DN.
CO I.D.
FD-1
4" RL UP & DN
3" RL. UP
CO
6" CFD. UP SEE NOTE A-1 (DAYLITE)
3/4" CW. UP
2"V UP&DN
2"V
3/4" CW UP
3/4" CW DN
4" RL. UP, 6" IN DN., 4" W. UP
3" RL DN. COMBINE IN VERTICAL DROP
DEMO 2"V DN
DEMO 2"V UP
DEMO 2"PW DN
2"V DN
DEMO 2"PW DROP INTO FS-2
SP-1-2 CONTROL PANEL
DEMO FS-2 W/TP
2"CW
2 1/2"CW
1 1/2"CW TO EXIST TOILET ROOMS

BOARD ROOM 104
RECEPTION 101
RECEPTION DESK 103
EAST LOBBY C126
STAIR 6 C118
UP
FURNITURE STORAGE 105
ARCHIVE 106
MAIL AREA 107
ELEVATOR 6
ELEV. MACH. ROOM 100
ADA REST. 102
WOMEN'S REST. 108
MEN'S REST. 110
STORAGE JANITOR CL. 109
CORRIDOR C135
EOC ROOM 165
LIBRARY 111
GENERAL STORAGE 112
ADA REST. 113
ADA SHOWER 1 114
ADA SHOWER 2 115
STORAGE 116
MEETING ROOM 2 162
MEETING ROOM 1 164
OFFICE A1 163
CORRIDOR #5 161
OFFICE A2 160
OFFICE A3 159
OFFICE B1 157
OFFICE B2 158
OFFICE B4 156
OFFICE B5 151
OFFICE B3 155
CORRIDOR #6 152
OPEN COLLAB 1 154
CORRIDOR #3 166
MULTI-PURPOSE ROOM 172
FUTURE OFFICE 7 167
OPEN COLLAB 2 153
FUTURE OFFICE 6 168
FUTURE OFFICE 5 169
FUTURE OFFICE 4 170
CORRIDOR #2 118
FITNESS ROOM 117
MOTHER'S ROOM 120
STORAGE 119
QUIET ROOM 121
BOOTH SEATING AREA 122
COFFEE AREA
OFFICE B6 150
CORRIDOR #7 149
OFFICE B11 148
OFFICE B12 147
COPY/PRINT 146
OFFICE B10 143
OFFICE B7 141
OFFICE B14 144
OFFICE B13 145
CORRIDOR #8 142
CORRIDOR #4 171
OFFICE B8 140
OFFICE B9 139
SERVER ROOM 134
AV CONTROL ROOM 125
STAIR C116
STAIR
OFFICE C1 136
OFFICE C2 135
OFFICE C3 130
OFFICE C4 129
CORRIDOR #9 137
AV STUDIO 126
OPEN MEETING AREA 138
OFFICE B15 133
OFFICE B16 133
FUTURE OFFICE 1 131
FUTURE OFFICE 2 128
FUTURE OFFICE 3 127
JANITOR ENGINEERING CONTROL ROOM
BREAKROOM 124
OPEN COLLABORATION AREA 123
ELECTRICAL C123
MEN'S RESTROOM C109
WOMEN'S RESTROOM
ELEVATOR MACHINE ROOM
MDF C124
WEST LOBBY
KEY PLAN
1/8" = 1'-0"

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DAVID L. JACQUES
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER
01/26/2023

DATE
REVISIONS:
DATE
REVISIONS:

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1015 39TH AVE SE
PUYALLUP, WA 98374

1ST FLOOR PARTIAL DEMO PLAN
PLUMBING
ISSUED FOR PERMIT

ENGINEER: K LARSEN	LAST REVISED: 01-30-23
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Thursday, January 26, 2023 4:32:34 PM

1 2 3 4 5 6 7 8 9

K J H G F E D

L

DECK
C217

STAIR 1
C216

STAIR 6
C218

SUITE 220
C204

ELECTRICAL
C223

MDF
C224

STAIR 5
C202

MEN
C201

RESTR
C203

DN

2"X2" T.S. DOWNSPOUT (TYP.-4)

SEE NOTE. 3

DECK DRAIN (TYP.) LOCATIONS

DD-1

2"X2" T.S. DOWNSPOUT SEE ARCH.DETAIL FOR LOCATION.

3"RL DN

4"RL UP

6"RL DN.

6"OFD RL.DN

2"VENT UP

3"VENT UP

4"VENT UP

OFD.RL

4"OFD.UP

4"RL.UP

3"RL UP

3"VENT UP

3"CW DN

2"VTR

4"V POC TO EXIST 2"V

UPSIZED 4"V DN, UPSIZE HORIZ V TO 4" TO VTR

4"V

3/4"CW UP TO WH-1

4"OFD. RL. UP

4"VTR

4"V POC TO EXIST 4"VTR

4"RL.UP

4" OVERFLOW ROOF DRAIN TERMINATE @ EL. 519'-2" OUTSIDE THE WALL. (TYP. 2 PLACES)

2"X2" T.S. DOWNSPOUT

2"X2" TUBE STEEL DOWNSPOUT(TYP.) LOCATIONS

½"HW. DN.

KEY PLAN

1/8" = 1'-0"

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1015 39TH AVE SE
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2ND FLOOR PARTIAL PLAN
PLUMBING

ISSUED FOR PERMIT

ENGINEER: K LARSEN	LAST REVISED: 01-30-23
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CAD: M HAGBERG	ISSUE DATE: 01-30-23

DRAWING NUMBER: C-2682-73224116-00

SHEET NUMBER:

TP2.02

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Thursday, January 26, 2023 4:32:36 PM

1 2 3 4 5 6 7 8 9

K J H G F E D

L

DECK
C217

STAIR 1
C216

STAIR 6
C218

SUITE 220
C204

ELECTRICAL
C223

MDF
C224

STAIR 5
C202

MEN
RESTR
C20

DN

2"X2" T.S. DOWNSPOUT (TYP.-4)
SEE NOTE. 3
DECK DRAIN (TYP.) LOCATIONS
DD-1
ELEV.#1
6" RL. DN.
RL
3"RL UP
4" OVERFLOW ROOF DRAIN TERMINATE @ EL. 519'-2" OUTSIDE THE WALL. (TYP. 2 PLACES)
3" VENT. UP
3"CW DN
4"RL. UP
OFD.RL
2"X2" T.S. DOWNSPOUT
SEE ARCH.DETAIL FOR LOCATION.
3"RL
3"RL.DN
2"VENT. UP
6"OFD RL.DN
3"VENT.UP
3"CW DN
DEMO 2"V DN
2"VTR
DEMO 3"V
3/4"CW UP TO WH-1
2½ CW DN.
4"OFD.UP
4"OFD. RL. UP
4"VTR
OFD.-RL
4"RL.UP
3" VENT. UP
2"X2" T.S. DOWNSPOUT
2"X2" TUBE STEEL DOWNSPOUT(TYP.) LOCATIONS
6"RL.DN.
3"VENT UP
4"VENT UP
½"HW. DN.
4"RL.UP
3"VENT UP
OPEN TO BELOW

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KEY PLAN

1/8" = 1'-0"

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2ND FLOOR PARTIAL DEMO PLAN
PLUMBING

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SHEET NUMBER:

DP2.02

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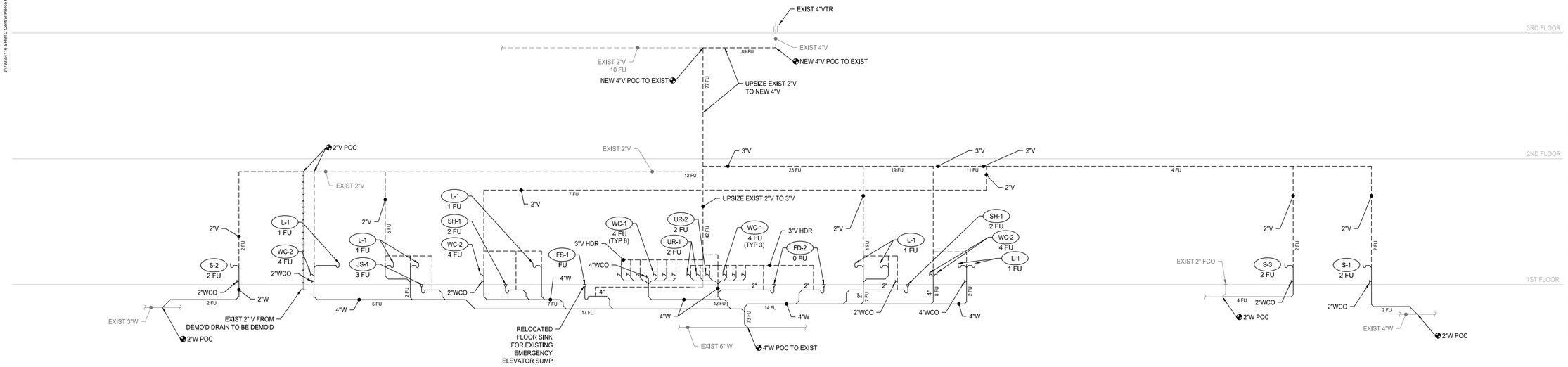
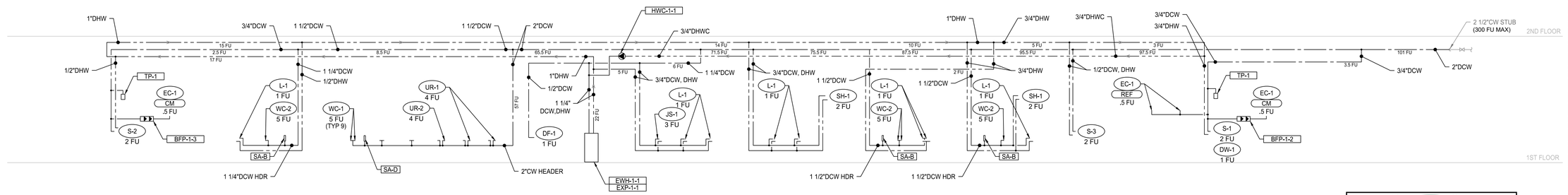


W/V
TP4.01

LEVEL 1 WASTE/VENT RISER
NO SCALE



H/C
TP4.01

LEVEL 1 HOT/COLD WATER RISER
NO SCALE

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01/26/2023

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RISERS & DIAGRAMS
PLUMBING

ISSUED FOR PERMIT

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CHECKED BY: D JACQUES	DATE PLOTTED: 01-30-23
CAD: M HAGBERG	ISSUE DATE: 01-30-23

DRAWING NUMBER:
C-2682-73224116-00

SHEET NUMBER:

TP4.01

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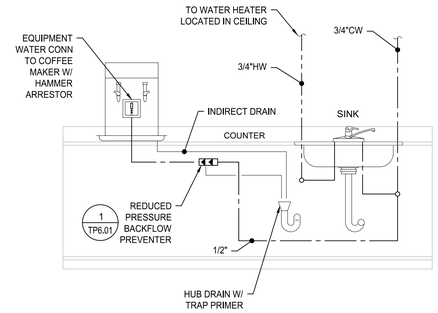
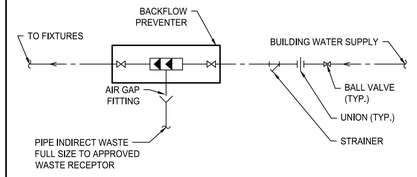


NOTE:
ALL PLUMBING FIXTURES, DRAINS, AND EQUIPMENT LOCATIONS TO BE VERIFIED PRIOR TO INSTALLATION.

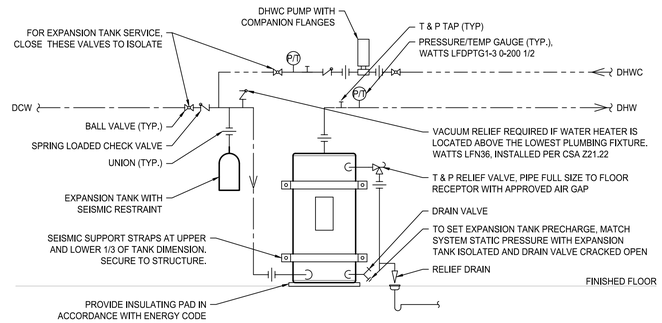
5 TP6.01 — BREAK ROOM SINK DETAIL

N.T.S.



1 TP6.01 — REDUCED PRESSURE BACKFLOW PREVENTER SINGLE STATION

N.T.S.

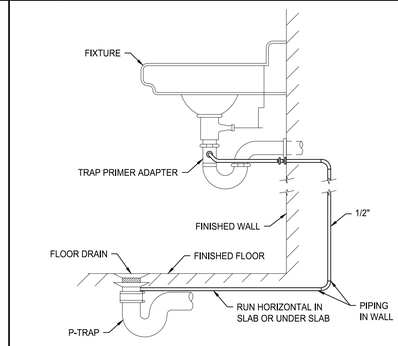


NOTES:

1. PROVIDE REDUCERS / INCREASERS AT PIPING CONNECTIONS AS REQUIRED FOR PROPER CONNECTION BETWEEN PIPING, COMPONENTS & EQUIPMENT.
2. CONFIRM ELECTRICAL CONNECTIONS & ROUGH-IN REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO CONSTRUCTION.
3. UNIONS BETWEEN COPPER AND STEEL MUST BE DI-ELECTRIC.

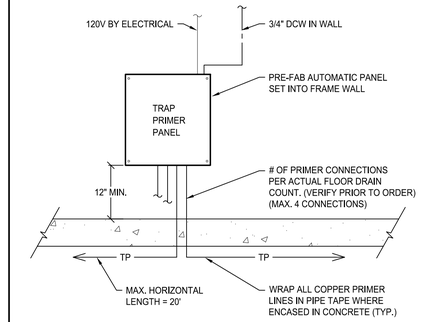
6 TP6.01 — ELECTRIC WATER HEATER WITH CIRC LINE

N.T.S.



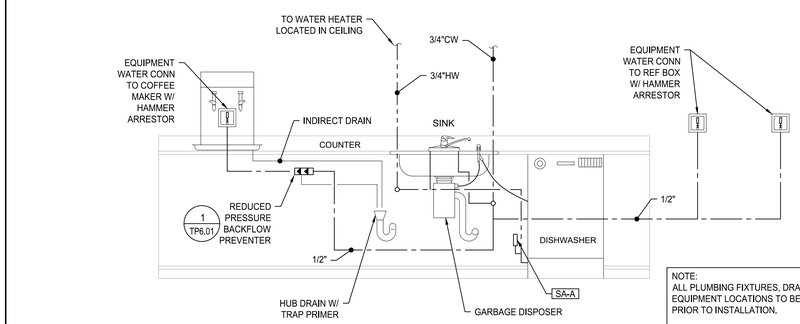
2 TP6.01 — LAVATORY TRAP PRIMER DETAIL

N.T.S.



3 TP6.01 — ELECTRONIC TRAP PRIMER MANIFOLD DETAIL

N.T.S.



NOTE:
ALL PLUMBING FIXTURES, DRAINS, AND EQUIPMENT LOCATIONS TO BE VERIFIED PRIOR TO INSTALLATION.

4 TP6.01 — BREAK ROOM SINK DETAIL

N.T.S.

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DAVID L. JACQUES — STATE OF WASHINGTON — 21657 — REGISTERED PROFESSIONAL ENGINEER

01/26/2023

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SHBTC BUILDING C
CENTRAL PIERCE FIRE & RESCUE
1015 39TH AVE SE
PUYALLUP, WA 98374

DETAILS
PLUMBING

ISSUED FOR PERMIT

ENGINEER: K LARSEN	LAST REVISED: 01-30-23
CHECKED BY: D JACQUES	DATE PLOTTED: 01-30-23
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DRAWING NUMBER: C-2682-73224116-00

SHEET NUMBER: TP6.01

CENTRAL PIERCE FIRE & RESCUE

SHBT SOUTH BUILDING

1015 39TH AVE SE, SUITE 120
PUYALLUP, WA 98374

POWER & LIGHTING SYSTEMS

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
CW C C +42" USB	DUPLEX WALL MOUNTED ELECTRICAL OUTLET, USB DENOTES INTEGRATED USB CHARGE PORT, +18", +42" ETC DENOTES MOUNTING HEIGHT, C DENOTES CONTROLLED OUTLET, CW DENOTES WIRELESS CONTROLLED OUTLET
	DUPLEX WALL MOUNTED ELECTRICAL OUTLET DEDICATED
GFI	DUPLEX WALL MOUNTED ELECTRICAL OUTLET GFCI
CW C C	FOURPLEX WALL MOUNTED ELECTRICAL OUTLET, C DENOTES CONTROLLED OUTLET, CW DENOTES WIRELESS CONTROLLED OUTLET
	L5-30 ELECTRICAL OUTLET
	L6-30R ELECTRICAL OUTLET
	WALL WORKSTATION POWER OUTLET TO FURNITURE SYSTEM
	FLOOR OUTLET DUPLEX & DATA
	FLOOR OUTLET FOURPLEX & DATA
J	JUNCTION BOX
	POWER PANEL 208V
	POWER PANEL 480V
	208V MARINA POWER RECEPTACLE
	480V RECEPTACLE
XX-XX F	EXHAUST FAN, TEXT BLOCK DENOTES MOTOR ID
	DISCONNECT
	DISCONNECT WITH STARTER
	500W FAN-FORCED HEATER

TELECOMMUNICATIONS LEGEND

SYMBOL	DESCRIPTION
	COMBINATION DATA/VOICE OUTLET, NUMBER INDICATES QTY
	WALL MOUNTED VOICE OUTLET, NUMBER INDICATES QTY
	WALL MOUNTED DATA OUTLET, NUMBER INDICATES QTY
	WALL WORKSTATION DATA/COMMUNICATIONS OUTLET TO FURNITURE SYSTEM
	CABLE TV OUTLET
	WIRELESS ACCESS POINT (WAP)
	FLOORBOX DATA
HDMI	HDMI OUTLET

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	LINEAR PENDANT - LF-2
	LINEAR PENDANT - LF1
	2' X 2' LIGHT FIXTURE
	2' X 4' LIGHT FIXTURE
	WALL WASHING LIGHT FIXTURE
	RECESSED OR PENDANT FIXTURE PER ELECTRICAL
	CIRCULAR PENDANT LIGHT - PF-3
	PENDANT LIGHT DISK - PF-2
	PENDANT LIGHT - PF-6
	PENDANT LIGHT - PF-1
EXIT EXIT EXIT EXIT	EMERGENCY EGRESS DUAL HEAD, BATTERY BACKUP
	EMERGENCY EXIT EGRESS FIXTURE
$ $a $b $os $d $3 $vs $lv	SWITCH, SINGLE POLE a, b, etc, DENOTES CIRCUIT CONTROL OS DESIGNATES OCCUPANCY SENSOR D INDICATES DIMMER 3 INDICATES 3-WAY VS INDICATES VACANCY SENSOR LV INDICATES LOW VOLTAGE

CONTACTS

PROJECT MANAGER:	MAN HUYNH	206-774-1354
PROJECT PRE-CONSTRUCTION ENGINEER:	TODD SEARS	206-774-1358

ABBREVIATIONS

ACH	ABOVE COUNTER HEIGHT	MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MW	MICROWAVE
AG	ABOVE GRADE	N	NEUTRAL
A, AMP	AMPERE	NIC	NOT IN CONTRACT
ATS	AUTOMATIC TRANSFER SWITCH	NL	NIGHTLIGHT
AWG	AMERICAN WIRE GAGE	PNL	PANEL
CB	CIRCUIT BREAKER	R	RACEWAY
CKT	CIRCUIT	RO	RACEWAY ONLY
CTB	COMMUNICATIONS TERMINAL BOARD	RECEPT	RECEPTACLE
DED	DEDICATED	REF	REFRIGERATOR
DW	DISHWASHER	SPECS	SPECIFICATIONS
EM	EMERGENCY	SW	SWITCH
EWC	ELECTRIC WATER COOLER	SWBD	SWITCHBOARD
FA	FIRE ALARM	TELE	TELEPHONE
FBOIC	FURNISHED BY OTHERS, INSTALLED BY CONTRACTOR	TYP	TYPICAL
		V	VOLT
FI	FILM ILLUMINATOR	VP	VANDALPROOF
G, GND	GROUND	W	WIRE OR WATT
GD	GARBAGE DISPOSAL	WC	WARMING CABINET
GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHERPROOF
HP	HORSEPOWER	XFMR	TRANSFORMER
IH	INSTA-HOT WATER DISPENSER	ø	PHASE
J-BOX	JUNCTION BOX		

DRAWING NOTES

LIGHT LINES ON DRAWINGS DENOTE EXISTING CONDITIONS, BOLD LINES ON DRAWING DENOTE NEW CONDITIONS.

DRAWING LIST

City of Puyallup
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Fire	Traffic

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CENTRAL PIERCE
FIRE & RESCUE

SHBT SOUTH
BUILDING

1015 39TH AVE SE, SUITE 120
PUYALLUP, WA 98374

EVERGREEN
POWER SYSTEMS INC.
Electrical Contracting and Engineering
3623 E. Marginal Way South
Seattle, Washington 98134
Phone: (206) 774-1400
Fax: (206) 774-1401

Revisions

No:	Item:	Date:
1	DESIGN REVIEW SET	01/27/23

Project Number: 17215
Plot Date: 1/27/2023 4:39 PM
Drawn By: MRP
Checked By: MM / MS
Arch. Bckgrnd.: 01/27/23
Drawing Name: 17215-CENTRAL PIERCE FIRE & RESCUE.dwg

Title :

COVER SHEET
SYMBOLS &
ABBREVIATIONS

DESIGN REVIEW SET

Sheet :

E0.00

ONE INCH 24x36 REV.D
FILE: O:\ENG\CAD\EPS\EPS PROJECTS\17215-SHBTC- CENTER PIERCE FIRE & RESCUE\17215-CENTRAL PIERCE FIRE & RESCUE.DWG DATE: 1/27/2023 4:39 PM

LIGHTING COMPLIANCE SUMMARY

2018 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**	Central Pierce Fire & Rescue - 2018 WSEC	For Building Department Use: **Date: Jan 27, 2023**
	Project Address	WA	
	Applicant Name	Sean Yalowicki	
	Applicant Phone	206-639-8630	
	Applicant Email	syalowicki@evergreenps.net	

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**		Office, Other	**Building Cond. Floor Area**	17,837
General Project Types	Building Addition Alteration	**New Building or Addition Lighting Scope**	Interior Lighting	**Alteration Lighting Scope**	Interior Lighting	**Project Cond. Floor Area**	17,837
						Floors Above Grade	1
						Compliance Method	Compliance Method 1 - General
Lighting Project Description	TI of existing Space						

Lighting Compliance Scope and Method	**Project Type**	**Interior / Exterior** (Interior includes both interior & parking)	**Luminaire Replacement Scope**	**Compliance Method**	**LPA Calculation Adjustment**	**Compliance Verification**
	Building Addition	Interior Lighting		Building area	No Calculation Adjustments selected	**COMPLIES**
Additional Efficiency Options Included						

Project Title	**Central Pierce Fire & Rescue - 2018 WSEC**	**Date**	**Jan 27, 2023**
Lighting Power Calculation	**BUILDING ADDITION - INTERIOR LIGHTING**	**Compliance Verification**	**COMPLIES**
Compliance Method	**Building area**	**LPA Calculation Adjustment**	**none**

Interior Lighting Power Allowance - Building Area

Building Areas	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 1)	Total Proposed Watts By Building Area	Compliance Status by Building Area
Office	17,837	0.64	11,416	7,271	COMPLIES

Proposed Lighting Power Density

Fixture Type/Application	Fixture ID	Building Area	New or Existing-to-Remain	Quantity of Fixtures, CLDs or Luminaires (#F)	Watts per Fixture, CLD or Luminaire (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures								
Direct / indirect pendant	PF-1	Office	New	4	95			380
Direct / indirect pendant	PF-3	Office	New	3	40			120
Direct / indirect pendant	PF-4	Office	New	7	36			252
Direct / indirect pendant	PF-6	Office	New	1	36			36
Direct / indirect pendant	PF-5	Office	New	8	40			320
Direct / indirect pendant	LF-1	Office	New	8	65			520
Direct / indirect pendant	LF-2	Office	New	1	68			68
Troffer	2x4	Office	New	128	32			4,096
Troffer	2x2	Office	New	15	32			480
Recessed downlight	RF-1	Office	New	69	11			759
Wall wash	Wall Wash	Office	New	10	24			240

Project Title	**Central Pierce Fire & Rescue - 2018 WSEC**	**Date**	**Jan 27, 2023**

Proposed Fixtures Details	**BUILDING ADDITION - INTERIOR LIGHTING**				
Fixture Type/Application	**Fixture ID**	**Location in Documents**	**Lamp Type**	**Building Area**	**New or Existing-to-Remain**
Individual Fixtures					
Direct / indirect pendant	PF-1	ALL	LED	Office	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Direct / indirect pendant	PF-3	ALL	LED	Office	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Direct / indirect pendant	PF-4	ALL	LED	Office	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Direct / indirect pendant	PF-6	ALL	LED	Office	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Direct / indirect pendant	PF-5	ALL	LED	Office	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Direct / indirect pendant	LF-1	ALL	LED	Office	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Direct / indirect pendant	LF-2	ALL	LED	Office	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Troffer	2x4	ALL	LED	Office	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Troffer	2x2	ALL	LED	Office	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Recessed downlight	RF-1	ALL	LED	Office	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				
Wall wash	Wall Wash	ALL	LED	Office	New
	Fixture Description:			Are these fixtures located within a daylight zone?:	
	Do these fixtures require specific application lighting controls?:				

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

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ONE INCH 24x36 REV.D
FILE: O:\ENG\CAD\EPS\EPS PROJECTS\17215-SHBTC- CENTER PIERCE FIRE & RESCUE\17215-CENTRAL PIERCE FIRE & RESCUE.DWG DATE: 1/27/2023 4:39 PM

CENTRAL PIERCE FIRE & RESCUE

SHBT SOUTH BUILDING

1015 39TH AVE SE, SUITE 120
PUYALLUP, WA 98374

EVERGREEN POWER SYSTEMS INC.
Electrical Contracting and Engineering
3623 E. Marginal Way South
Seattle, Washington 98134
Phone: (206) 774-1400
Fax: (206) 774-1401

Revisions

No:	Item:	Date:
1	DESIGN REVIEW SET	01/27/23

Project Number: 17215
Plot Date: 1/27/2023 4:40 PM
Drawn By: MRP
Checked By: MM / MS
Arch. Bckgrnd.: 01/27/23
Drawing Name: 17215-CENTRAL PIERCE FIRE & RESCUE.dwg

Title :

LIGHTING CALCULATIONS

DESIGN REVIEW SET

Sheet :

E0.02

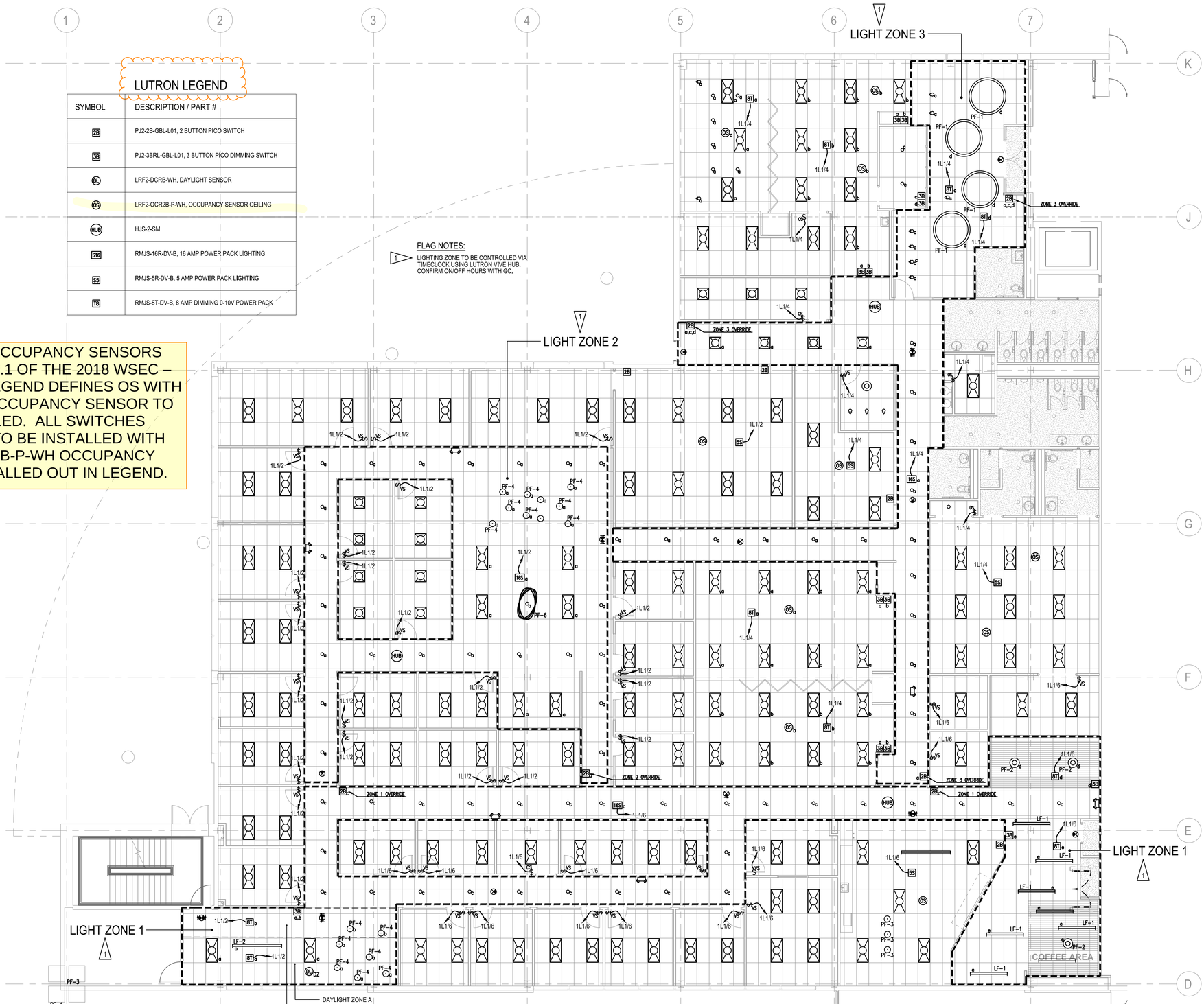
LUTRON LEGEND

SYMBOL	DESCRIPTION / PART #
2B	PJ2-2B-GBL-L01, 2 BUTTON PICO SWITCH
3B	PJ2-3BRL-GBL-L01, 3 BUTTON PICO DIMMING SWITCH
DL	LRF2-DCRB-WH, DAYLIGHT SENSOR
OS	LRF2-OCR2B-P-WH, OCCUPANCY SENSOR CEILING
HUB	HJS-2-SM
S16	RMJS-16R-DV-B, 16 AMP POWER PACK LIGHTING
S5	RMJS-5R-DV-B, 5 AMP POWER PACK LIGHTING
T8	RMJS-8T-DV-B, 8 AMP DIMMING 0-10V POWER PACK

PROVIDE OCCUPANCY SENSORS PER C405.2.1 OF THE 2018 WSEC – LUTRON LEGEND DEFINES OS WITH TYPE OF OCCUPANCY SENSOR TO BE INSTALLED. ALL SWITCHES LABEL VS TO BE INSTALLED WITH LRF2-OCR2B-P-WH OCCUPANCY SENSOR CALLED OUT IN LEGEND.

FLAG NOTES:

1 LIGHTING ZONE TO BE CONTROLLED VIA TIMECLOCK USING LUTRON VIVE HUB. CONFIRM ON/OFF HOURS WITH GC.



1ST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

PRCTI20230098

ONE INCH 24x36 REVD
FILE: O:\ENG\CAD\EPS\EPS PROJECTS\17215-SHBTC- CENTER PIERCE FIRE & RESCUE\17215-CENTRAL PIERCE FIRE & RESCUE.DWG DATE: 1/27/2023 4:39 PM

CENTRAL PIERCE FIRE & RESCUE

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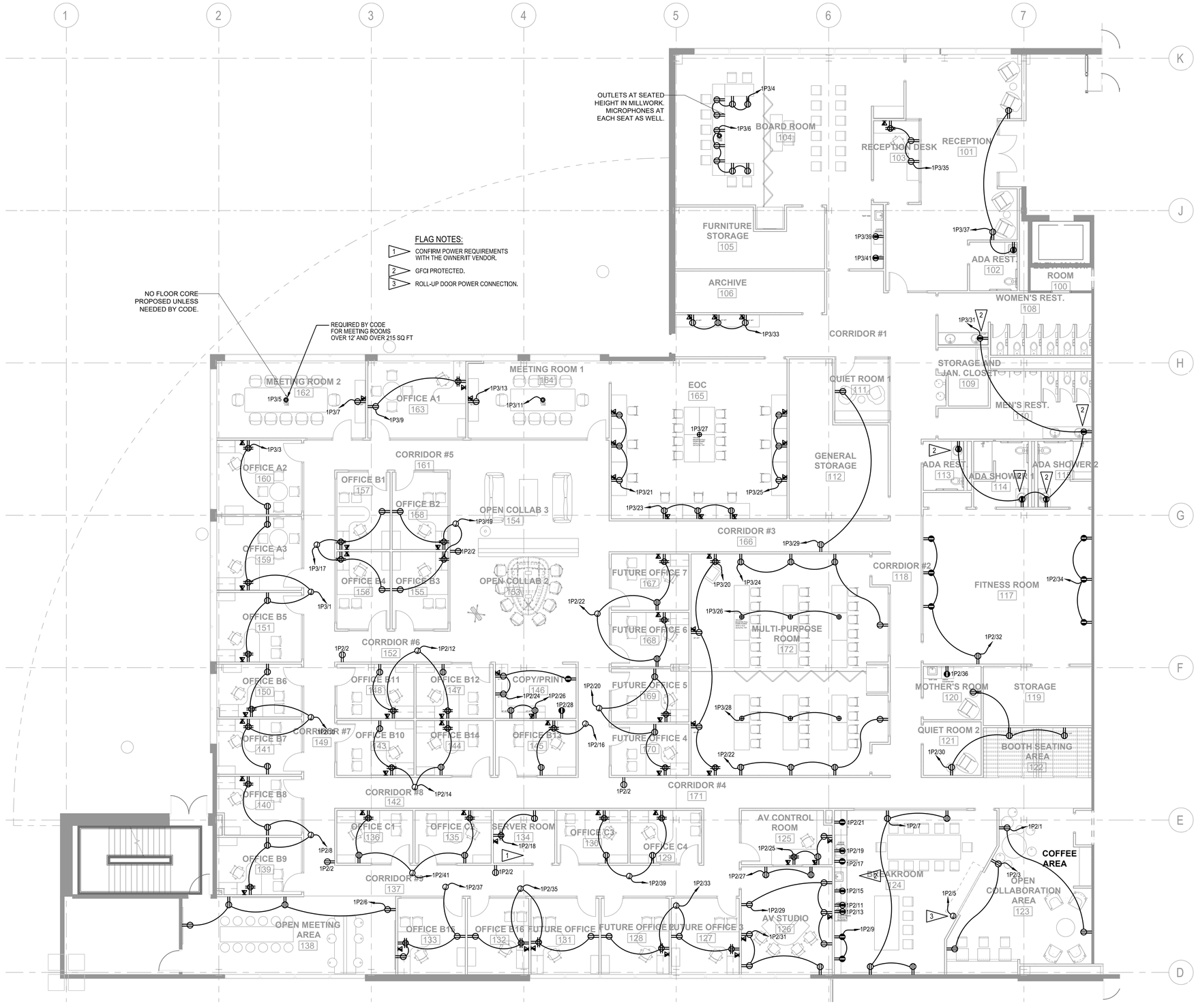
1ST FLOOR LIGHTING PLAN

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

DESIGN REVIEW SET

Sheet :

E1.01



1ST FLOOR POWER PLAN

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

PRCTI20230098

CENTRAL PIERCE FIRE & RESCUE

SHBT SOUTH BUILDING

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1ST FLOOR POWER PLAN

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
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DESIGN REVIEW SET

Sheet :

E2.01

PLOT DATE: 1/27/2023 4:39 PM
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FILE: O:\ENG\CAD\EPS\EPS PROJECTS\17215-SHBTC- CENTER PIERCE FIRE & RESCUE\17215-CENTRAL PIERCE FIRE & RESCUE.DWG

1L1

LOAD DISTRIBUTION						CKT	CIRCUIT DESCRIPTION	PH	AMPS	POLE	LOAD kVA
REC	LTG	EQPT	HVAC	CLG	KTC						
	0.30					1	LIGHTING CORRIDORS	A	20	1	0.30
	0.40					3	LIGHTING BATHROOMS, FITNESS	B	20	1	0.40
	1.80					5	LIGHTING NE	C	20	1	1.80
	2.10					7	LIGHTING NW	A	20	1	2.10
						9		B	20	1	
						11		C	20	1	
						13		A	20	1	
						15		B	20	1	
						17		C	20	1	
						19		A	20	1	
						21		B	20	1	
						23		C	20	1	
						25		A	20	1	
						27		B	20	1	
						29		C	20	1	
						31		A	20	1	
						33		B	20	1	
						35		C	20	1	
						37		A	20	1	
						39		B	20	1	
						41		C	20	1	
						2		A	20	1	
						4		B	20	1	
						6		C	20	1	
						8		A	20	1	
						10		B	20	1	
						12		C	20	1	
						14		A	20	1	
						16		B	20	1	
						18		C	20	1	
						20		A	20	1	
						22		B	20	1	
						24		C	20	1	
						26		A	20	1	
						28		B	20	1	
						30		C	20	1	
						32		A	20	1	
						34		B	20	1	
						36		C	20	1	
						38		A	20	1	
						40		B	20	1	
						42		C	20	1	

AMPERES: 100A
VOLTS: 480Y/277V
PHASE: 3
WIRE: 4
BUS TYPE: ALUMINUM
A.I.C.: 35K
MLO / MCB: MLO
MOUNTING: SURFACE
GND BUS: YES
ISOLATED GND: NO
200% NEUTRAL: NO
DEMAND FACTORS
RECEPTACLES NEC 220.44
LIGHTING 125%
EQUIPMENT 100%
HEATING 100%
COOLING 100%
KITCHEN: 65%

PANEL TOTAL CONN
LOAD IN kVA
RECEPTACLES:
LIGHTING: 4.60
EQUIPMENT:
HEATING:
COOLING:
KITCHEN:
TOTAL: 4.60

FEEDER TOTAL CONN LOAD IN kVA: 4.60
DEMAND LOAD: 5.75

FEEDER
DEMAND LOAD
5.75 kVA
6.9 AMPERES

LARGEST MOTOR kVA
DEMAND 125%

REMARKS:

1P1

LOAD DISTRIBUTION						CKT	CIRCUIT DESCRIPTION	PH	AMPS	POLE	LOAD kVA
REC	LTG	EQPT	HVAC	CLG	KTC						
						1		A	20	1	
						3		B	20	1	
						5		C	20	1	
						7		A	20	1	
						9		B	20	1	
						11		C	20	1	
						13		A	20	1	
						15		B	20	1	
						17		C	20	1	
						19		A	20	1	
						21		B	20	1	
						23		C	20	1	
						25		A	20	1	
						27		B	20	1	
						29		C	20	1	
						31		A	20	1	
						33		B	20	1	
						35		C	20	1	
17.46		1.90				37		A	225	3	19.36
13.14		3.60				39	1P2 & 1P3	B	/	/	16.74
12.24		1.65				41		C	/	/	13.89
						2		A	20	1	
						4		B	20	1	
						6		C	20	1	
						8		A	20	1	
						10		B	20	1	
						12		C	20	1	
						14		A	20	1	
						16		B	20	1	
						18		C	20	1	
						20		A	20	1	
						22		B	20	1	
						24		C	20	1	
						26		A	20	1	
						28		B	20	1	
						30		C	20	1	
						32		A	20	1	
						34		B	20	1	
						36		C	20	1	
						38		A	20	1	
						40		B	20	1	
						42		C	20	1	

AMPERES: 800 AMP
VOLTS: 208Y/120V
PHASE: 3
WIRE: 4
BUS TYPE: CU
A.I.C.: 10K
TOP FEED
MLO / MCB: MCB
225 AMP
MOUNTING: SURFACE
GND BUS: YES
ISOLATED GND: NO
200% NEUTRAL: NO
DEMAND FACTORS
RECEPTACLES NEC 220.44
LIGHTING 125%
EQUIPMENT 100%
HEATING 100%
COOLING 100%
KITCHEN: 65%

PANEL TOTAL CONN
LOAD IN kVA
RECEPTACLES: 42.84
LIGHTING:
EQUIPMENT: 7.15
HEATING:
COOLING:
KITCHEN:
TOTAL: 49.99

FEEDER TOTAL CONN LOAD IN kVA: 49.99
DEMAND LOAD: 33.57

FEEDER
DEMAND LOAD
33.57 kVA
93.3 AMPERES

LARGEST MOTOR kVA
DEMAND 125%

REMARKS:
BOTTOM FED
this top half of an 84 circuit panelboard

1P2

LOAD DISTRIBUTION						CKT	CIRCUIT DESCRIPTION	PH	AMPS	POLE	LOAD kVA
REC	LTG	EQPT	HVAC	CLG	KTC						
0.36						1	OPEN COLLAB 123 RCPT	A	20	1	0.36
0.36						3	OPEN COLLAB 123 RCPT	B	20	1	0.36
						5	SPARE	C	20	1	
0.72						7	BREAKROOM 124 RCPT	A	20	1	0.72
						9	BREAKROOM 124 APPL RCPT	B	20	1	
		0.90				11	BREAKROOM 124 MW	C	20	1	0.90
		0.90				13	BREAKROOM 124 MW	A	20	1	0.90
		0.80				15	BREAKROOM 124 APPL RCPT	B	20	1	0.80
		0.75				17	BREAKROOM 124 DW	C	20	1	0.75
		1.00				19	BREAKROOM 124 APPL COFFEE	A	20	1	1.00
		0.80				21	BREAKROOM 124 APPL RCPT	B	20	1	0.80
0.18						23	AV CONTROL ROOM RCPT	C	20	1	0.18
0.36						25	AV CONTROL ROOM RCPT	A	20	1	0.36
0.36						27	AV STUDIO 126	B	20	1	0.36
0.72						29	AV STUDIO 126	C	20	1	0.72
0.54						31	AV STUDIO 126	A	20	1	0.54
1.08						33	OFFICE 127,128 RCPT	B	20	1	1.08
1.08						35	OFFICE 131,132 RCPT	C	20	1	1.08
0.54						37	OFFICE 133 RCPT	A	20	1	0.54
1.08						39	OFFICE 129,130 RCPT	B	20	1	1.08
1.08						41	OFFICE 135,136 RCPT	C	20	1	1.08
0.54						2	CORRIDOR N. NW RCPT	A	20	1	0.54
0.36						4	OPEN MEETING AREA 138 RCPT	B	20	1	0.36
0.72						6	OPEN MEETING AREA 138 RCPT	C	20	1	0.72
1.08						8	OFFICE 139, 140 RCPT	A	20	1	1.08
1.08						10	OFFICE 141, 150 RCPT	B	20	1	1.08
1.08						12	OFFICE 147, 148 RCPT	C	20	1	1.08
1.08						14	OFFICE 143, 144 RCPT	A	20	1	1.08
0.90						16	OFFICE 145 RCPT, COPY 146 RCPT	B	20	1	0.90
0.54						18	SERVER ROOM 134	C	20	1	0.54
1.08						20	OFFICE 169, 170 RCPT	A	20	1	1.08
1.08						22	OFFICE 167, 168 RCPT	B	20	1	1.08
0.54						24	COPY/PRINT 146 RCPT	C	20	1	0.54
0.36						26	COPY/PRINT 146 RCPT	A	20	1	0.36
		1.20				28	COPY/PRINT 146 COPIER	B	20	1	1.20
0.72						30	MOTHERS RM, QUET RM RCPT, STRG	C	20	1	0.72
0.72						32	FITNESS 117 RCPT	A	20	1	0.72
0.54						34	FITNESS 117 RCPT	B	20	1	0.54
						36	SPARE	C	20	1	
						38	SPARE	A	20	1	
						40		B	20	1	
						42		C	20	1	

AMPERES: 225 AMP
VOLTS: 208Y/120V
PHASE: 3
WIRE: 4
BUS TYPE: CU
A.I.C.: 10K
TOP FEED
MLO / MCB: MLO
MOUNTING: SURFACE
GND BUS: YES
ISOLATED GND: NO
200% NEUTRAL: NO
DEMAND FACTORS
RECEPTACLES NEC 220.44
LIGHTING 125%
EQUIPMENT 100%
HEATING 100%
COOLING 100%
KITCHEN: 65%

PANEL TOTAL CONN
LOAD IN kVA
RECEPTACLES: 20.88
LIGHTING:
EQUIPMENT: 6.35
HEATING:
COOLING:
KITCHEN:
TOTAL: 27.23

FEEDER TOTAL CONN LOAD IN kVA: 42.84
DEMAND LOAD: 26.42

RECEPTACLES: 42.84
LIGHTING:
EQUIPMENT: 7.15
HEATING:
COOLING:
KITCHEN:
TOTAL: 49.99
DEMAND LOAD: 33.57

FEEDER
DEMAND LOAD
33.57 kVA
93.3 AMPERES

LARGEST MOTOR kVA
DEMAND 125%

REMARKS:
BOTTOM FED
this top half of an 84 circuit panelboard

1P3

LOAD DISTRIBUTION						CKT	CIRCUIT DESCRIPTION	PH	AMPS	POLE	LOAD kVA
REC	LTG	EQPT	HVAC	CLG	KTC						
1.08						1	OFFICE 151, 159 RCPT	A	20	1	1.08
0.54						3	OFFICE 160 RCPT	B	20	1	0.54
0.72						5	MEETING RM 162 RCPT, FB	C	20	1	0.72
0.72						7	MEETING RM 162 AV	A	20	1	0.72
0.54						9	OFFICE 163 RCPT	B	20	1	0.54
0.54						11	MEETING RM 164 RCPT, FB	C	20	1	0.54
0.72						13	MEETING RM 164 AV	A	20	1	0.72
0.18						15	SPARE	B	20	1	0.18
1.08						17	OFFICE 156,157 RCPT	C	20	1	1.08
1.08						19	OFFICE 155,158 RCPT	A	20	1	1.08
0.54						21	EOC RM 165 RCPT	B	20	1	0.54
0.54						23	EOC RM 165 RCPT	C	20	1	0.54
0.54						25	EOC RM 165 RCPT	A	20	1	0.54
0.36						27	EOC RM 165 FB	B	20	1	0.36
0.54						29	LIBRARY 111 , STORAGE, CORRIDOR	C	20	1	0.54
1.08						31	MEN/WOMEN RESTROOM, JANITOR	A	20	1	1.08
1.08						33	MAIL, ARCHIVE, FURN STRG 105	B	20	1	1.08
0.36						35	RECEPTION DESK RCPT	C	20	1	0.36
0.54						37	RECEPTION GP RCPT	A	20	1	0.54
		0.80				39	BAR SINK COFFEE	B	20	1	0.80
0.18						41	BAR SINK GP RCPT	C	20	1	0.18
1.62						2	SPARE	A	20	1	1.62
0.72						4	BOARD RM 104 FB	B	20	1	0.72
0.90						6	BOARD RM 104 RCPT	C	20	1	0.90
						8	BOARD RM 104 RCPT	A	20	1	
						10	SPARE	B	20	1	
						12	SPARE	C	20	1	
						14	SPARE	A	20	1	
						16	SPARE	B	20	1	
						18	SPARE	C	20	1	
1.08						20	MULTI-PURPOSE ROOM 172 AV	A	20	1	1.08
0.72						22	MULTI-PURPOSE ROOM 172 W WALL	B	20	1	0.72
0.72						24	MULTI-PURPOSE ROOM 172 E WALL	C	20	1	0.72
1.62						26	MULTI-PURPOSE ROOM 172 DROP	A	20	1	1.62
1.62						28	MULTI-PURPOSE ROOM 172 DROP	B	20	1	1.62
						30		C	20	1	
						32		A	20	1	
						34		B	20	1	
						36		C	20	1	
						38		A	20	1	
						40		B	20	1	
						42		C	20	1	

AMPERES: 225 AMP
VOLTS: 208Y/120V
PHASE: 3
WIRE: 4
BUS TYPE: CU
A.I.C.: 10K
TOP FEED
MLO / MCB: MLO
MOUNTING: SURFACE
GND BUS: YES
ISOLATED GND: NO
200% NEUTRAL: NO
DEMAND FACTORS
RECEPTACLES NEC 220.44
LIGHTING 125%
EQUIPMENT 100%
HEATING 100%
COOLING 100%
KITCHEN: 65%

PANEL TOTAL CONN
LOAD IN kVA
RECEPTACLES: 21.96
LIGHTING:
EQUIPMENT: 0.80
HEATING:
COOLING:
KITCHEN:
TOTAL: 22.76

FEEDER TOTAL CONN LOAD IN kVA: 22.76
DEMAND LOAD: 16.78

RECEPTACLES: 21.96
LIGHTING:
EQUIPMENT: 0.80
HEATING:
COOLING:
KITCHEN:
TOTAL: 22.76
DEMAND LOAD: 16.78

FEEDER
DEMAND LOAD
16.78 kVA
46.6 AMPERES

LARGEST MOTOR kVA
DEMAND 125%

REMARKS:
BOTTOM FED
this top half of an 84 circuit panelboard

PRCTI20230098

ONE INCH
24x36 REV.D
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CENTRAL PIERCE
FIRE & RESCUE

SHBT SOUTH
BUILDING

1015 39TH AVE SE, SUITE 120
PUYALLUP, WA 98374

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Title :

PANEL SCHEDULES

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

DESIGN REVIEW SET

Sheet :

E6.01