

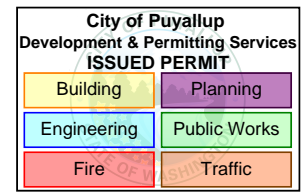
PLOT DATE: 2024-06-07 4:21:07 PM

R2019.1
11x17 Titleblock



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

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



CASCADE CHRISTIAN SCHOOL

28x64 ASL USA SR FLEET

815 21st STREET SE, PUYALLUP, WA, 98372

DRAWING LIST - BUILDING PERMIT

SHEET NUMBER	SHEET NAME
AM001	ARCHITECTURAL DRAWING LIST & GENERAL INFORMATION
AM002	ARCHITECTURAL GENERAL INFORMATION
AM010	ASSEMBLY SCHEDULES
AM020	OVERALL DOOR & WINDOW SCHEDULE
AM051	OVERALL FIRE SAFETY PLAN
AM101	OVERALL FLOOR PLAN
AM200	OVERALL BUILDING ELEVATION
AM201	OVERALL BUILDING ELEVATION
AM210	OVERALL BUILDING SECTIONS
AM211	OVERALL BUILDING SECTIONS
AM301	EXTERIOR FINISH DETAILS - CLADDING
AM302	EXTERIOR FINISH DETAILS - CLADDING
AM303	EXTERIOR FINISH DETAILS - CLADDING
AM400	INTERIOR FINISH DETAILS - WASHROOM
EM001	ELECTRICAL DRAWING LIST & GENERAL INFORMATION
EM002	SYMBOL LEGENDS & GENERAL NOTES
EM101	OVERALL POWER & DATA PLAN - LEVEL 1
EM201	OVERALL LIGHTING PLAN - LEVEL 1
EM301	OVERALL FIRE ALARM PLAN - LEVEL 1
EM600	PANEL SCHEDULES
EM601	BRANCH CIRCUIT WIRE SIZE_LP-1
EM602	BRANCH CIRCUIT WIRE SIZE_MP-1
EM603	LPD CALCULATIONS
EM604	LOAD CALCULATION_LP-1
EM605	LOAD CALCULATION_MP-1
GM-000	COVER SHEET & SERIAL NUMBERS
MM001	MECHANICAL DRAWING LIST & GENERAL INFORMATION
MM002	MECHANICAL SCHEDULES
MM003	MECHANICAL SCHEDULES 2
MM101	OVERALL HVAC PLAN - LEVEL 1
MM301	OVERALL PLUMBING PLAN - LEVEL 1
MM310	PLUMBING DETAILS
SC100	FOUNDATION PLAN
SC200	FOUNDATION DETAILS
SM001	STRUCTURAL DRAWING LIST & GENERAL INFORMATION
SM121-101	STRUCTURAL FLOOR FRAMING PLAN - UNIT 101
SM121-102	STRUCTURAL FLOOR FRAMING PLAN - UNIT 102
SM141	OVERALL SEISMIC CEILING PLAN
SM151-101	STRUCTURAL ROOF FRAMING PLAN - UNIT 101
SM151-102	STRUCTURAL ROOF FRAMING PLAN - UNIT 102
SM300	EXTERIOR STRUCTURAL DETAILS
SM301	EXTERIOR STRUCTURAL DETAILS
SM302	EXTERIOR STRUCTURAL DETAILS
SM303	EXTERIOR STRUCTURAL DETAILS
SM304	EXTERIOR STRUCTURAL DETAILS
SM500	STEEL FABRICATION DETAILS

Grand total: 46

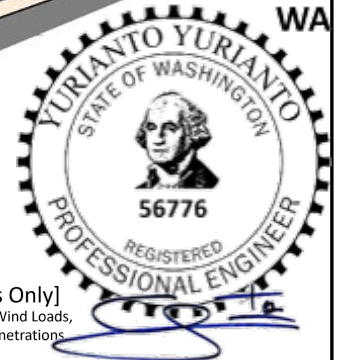


Approval of submitted plans is not an approval of omissions or oversights by this office or non compliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable codes and regulations of the local government.

FACTORY ADDRESS: 115 PEACEKEEPERS DR SW,
CALGARY, ALBERTA, T3E 7X4
FACTORY CONTACT: OWAIS KHAN E. owais.khan@atco.com
T. 403.801.2796

DESIGN PROFESSIONAL : YURI YURIANTO E.
yurianto@modularconsultant.com

PRPF20241230



[Structural Aspects Only]
MEP Dead Weights, Seismic/Wind Loads,
Supports, Anchors & Hole Penetrations

By Yuri at 4:44:26 PM, 6/10/2024

OVERALL LIST - SERIAL NUMBERS

UNIT	CANADA SERIAL NUMBER	US SERIAL NUMBER
1 OF 2	864245190	4642414582
2 OF 2	864245191	4642414583

BID #:

Calculations required to be provided by the Permittee on site for all inspections

ATCO PROJECT #:

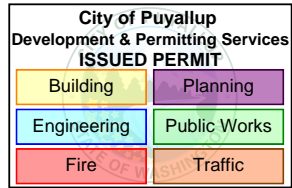
1107994

City of Puyallup Building REVIEWED FOR COMPLIANCE

SKinnear
11/05/2024
1:51:34 PM



DRAWING LIST - MANUFACTURING	
SHEET NUMBER	SHEET NAME
AM001	ARCHITECTURAL DRAWING LIST & GENERAL INFORMATION
AM002	ARCHITECTURAL GENERAL INFORMATION
AM010	ASSEMBLY SCHEDULES
AM020	OVERALL DOOR & WINDOW SCHEDULE
AM051	OVERALL FIRE SAFETY PLAN
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AM302	EXTERIOR FINISH DETAILS - CLADDING
AM303	EXTERIOR FINISH DETAILS - CLADDING
AM400	INTERIOR FINISH DETAILS - WASHROOM
Grand total: 14	



By Yuri at 4:44:29 PM, 6/10/2024

BUILDING DESIGN PARAMETERS/ STATE PLATE INFORMATION:

- USE / OCCUPANCY: B (BUSINESS)
- CONSTRUCTION TYPE: V-B (UNSPRINKLERED)
- SPRINKLER SYSTEM: NO
- FIRE ALARM SYSTEM: NO
- BUILDING AREA: 1780 SQFT
- BUILDING HEIGHT: <15 FEET
- NUMBER OF STOREYS: 1
- NUMBER OF MODULES: 2 (REFER TO SERIAL # - LEGEND)
- OCCUPANT LOAD: 16 PERSON
- EXTERIOR WALL FIRE RATING: NOT RATED
- THIS BUILDING MUST BE INSTALLED WITH THE FIRE SEPARATION DISTANCES AS REQUIRED BY IBC TABLE 602, AND SECTION 704.3
- ENERGY CODE COMPLIANCE: WSEC 2021
- MANUFACTURER'S DATA PLATE AND STATE LABELS ARE TO BE LOCATED ABOVE THE ELECTRICAL PANEL.
- ENERGY CODE COMPLIANCE: PRESCRIPTIVE (COMPONENT METHOD), CLIMATE ZONE 6B

STATE CODES:

- BUILDING : 2021 WASHINGTON STATE BUILDING CODE (2021 IBC, AMENDED)
- PLUMBING: 2021 WASHINGTON PLUMBING CODE (2021 UPC, AMENDED)
- MECHANICAL: 2021 WASHINGTON STATE MECHANICAL CODE (2021 IMC, AMENDED)
- ELECTRICAL: 2023 WASHINGTON ELECTRICAL CODE (2023 NFPA 70, AMENDED)
- ENERGY: 2021 WASHINGTON STATE COMMERCIAL ENERGY CODE (2021 IECC, AMENDED)
- ACCESSIBILITY: 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
2017 WASHINGTON ACCESSIBILITY CODE (ANSI A117.1, AMENDED)

FLOOD LOAD:

THIS BUILDING IS NOT DESIGNED TO BE SUBMERGED OR SUBJECTED TO WAVE ACTION WHEN LOCATED IN A FLOOD PRONE OR ZONE AREA.
THE FINISH FLOOR ELEVATION MUST BE LOCATED ABOVE THE BUILDING SITE FLOOD PLANE LEVEL FOR THIS BUILDING TO BE LOCATED IN A FLOOD PRONE OR ZONE AREA SUBJECT TO LOCAL JURISDICTION.

ACCESSIBILITY NOTES:

THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.

WHERE STORAGE FACILITIES SUCH AS CABINETS, SHELVES, CLOSETS, AND DRAWERS ARE PROVIDED AT LEAST ONE OF EACH TYPE PROVIDED SHALL CONTAIN STORAGE SPACE COMPLYING WITH THE FOLLOWING: DOORS, ETC. TO SUCH SPACES SHALL BE ACCESSIBLE (ie. TOUCH LATCHES, U-SHAPED PULLS); SPACES SHALL BE WITHIN 15 INCHES MINIMUM AND 48 INCHES MAXIMUM OF THE FLOOR FOR FORWARD REACH OR 9 INCHES MINIMUM AND 54 INCHES MAXIMUM, OF THE FLOOR FOR SIDE REACH; CLOTHES RODS SHALL BE A MAXIMUM OF 54 INCHES ABOVE THE FLOOR (48 INCHES MAXIMUM WHEN DISTANCE FROM WHEELCHAIR TO ROD EXCEEDS 10 INCHES).

CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE NO HIGHER THAN 45 INCHES ABOVE THE FLOOR FOR FRONT APPROACH OR 54 INCHES ABOVE THE FLOOR FOR SIDE APPROACH. RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15 INCHES ABOVE THE FLOOR. EXCEPTION: HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.

WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGH- OUT, INCLUDING RESTROOMS, AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING, WHICHEVER IS LOWER.

DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (ie. LEVER-OPERATED, PUSH-TYPE, U-SHAPED) MOUNTED NO HIGHER THAN 48 INCHES ABOVE THE FLOOR.

ALL DOORS SHALL BE OPENABLE BY A SINGLE EFFORT. THE MAXIMUM FORCE REQUIRED TO OPEN A DOOR SHALL NOT EXCEED 8.5 LBS. FOR EXTERIOR SWINGING DOORS AND 5 LBS. FOR ALL SLIDING, FOLDING, AND INTERIOR SWINGING DOORS.

FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. CHANGES IN LEVEL BETWEEN 0.25 INCH AND 0.5 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. CHANGES IN LEVEL GREATER THAN 0.5 INCH REQUIRE RAMPS. CARPET PILE THICKNESS SHALL BE 0.5 INCH MAX. GRATINGS IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5 INCH WIDE IN ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.

SEALED DRAWING :

WASHINGTON REGISTERED ARCHITECT OR ENGINEER

GENERAL NOTES:

ACCESS TO BUILDING FOR PERSONS IN WHEELCHAIRS IS DESIGNED BY AND FIELD BUILT BY OTHERS AND SUBJECT TO LOCAL JURISDICTION. AT LEAST 60% OF PUBLIC ENTRANCES (INCLUDING PRIMARY ENTRANCE) AND ALL REQUIRED EXITS MUST BE ACCESSIBLE.

ALL DOORS SHALL BE OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS SHALL NOT BE USED.

ALL GLAZING WITHIN A 24 INCH ARC OF DOORS, WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR, AND ALL GLAZING IN DOORS SHALL BE SAFETY, TEMPERED OR ACRYLIC PLASTIC SHEET.

ALL STEEL STRAPS REFERENCED ON FLOOR PLAN SHALL BE 1.5 INCH x 26 GA. w/(8) 15 GA. x 7/16 INCH CROWN x 1 1/2 INCH STAPLES WITH A MINIMUM OF 1" PENETRATION EACH END OF STRAP OR EQUIVALENT FROM RIDGE BEAM TO COLUMN, AND COLUMN TO FLOOR.

MINIMUM CORRIDOR WIDTH IS 44 INCHES (IF APPLICABLE).
MINIMUM CORRIDOR FINISH IS CLASS B (GYPSUM) (IF APPLICABLE).

PORTABLE FIRE EXTINGUISHER PER N.F.P.A. - 101 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION AND APPROVAL.

THIS BUILDING HAS NOT BEEN DESIGNED FOR COASTAL HAZARD AREAS, OCEAN HAZARD OR REGULATORY FLOOD PLAIN AREAS.

ALL INTERIOR WALL AND CEILING FINISHES SHALL BE CLASS 'B' OR BETTER IN CORRIDORS. ALL INTERIOR WALL AND CEILING FINISHES SHALL BE CLASS 'C' OR BETTER IN ROOMS AND ENCLOSED SPACES.

ALL INTERIOR ENCLOSED AREAS OF PLENUM WALL FINISHES SHALL BE CLASS 'A' OR BETTER.
CARPET SHALL BE CLASS II OR BETTER.
ACCESSIBLE PLUMBING FACILITIES MUST BE AVAILABLE IN ADJACENT BUILDING ON THE SAME SITE.

MODEL APPROVAL :

THIRD PARTY OR REGISTERED ARCHITECT OR ENGINEER - STATE OF WASHINGTON




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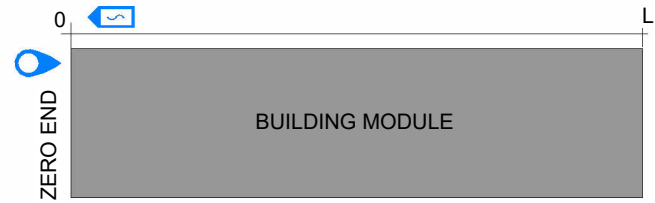
REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	NM	

PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH	DRAWING TITLE:	ARCHITECTURAL DRAWING LIST & GENERAL INFORMATION		
CLIENT:	CASCADE CHRISTIAN SCHOOL	PROJECT NO:	1107994	DRAWING NO:	AM001
				REV. #	A

ZERO END: 
 ARROW INDICATES THE LOCATION OF THE ZERO END ON THE UNIT
 ORDINATE DIMENSIONS WILL START AT THIS POINT

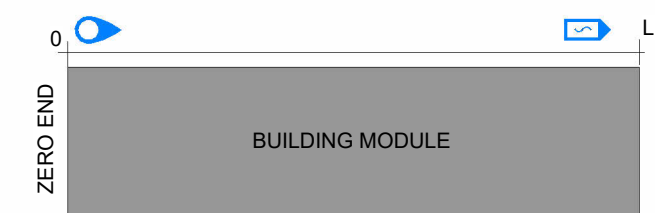
SHIPPING DIRECTION: 
 ARROW INDICATES THE DIRECTION OF TRAVEL

EXAMPLE 1:



OR,

EXAMPLE 2:



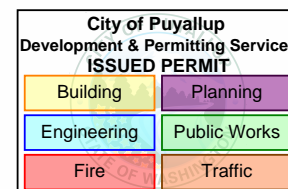
By Yuri at 4:44:40 PM, 6/10/2024

ARCHITECTURAL ABBREVIATIONS

ABBREVIATION	DEFINITION
ACC	ACCESSIBLE
ACFL	ACCESS FLOOR
AD	AREA DRAIN
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
B/O	BOTTOM OF
BFC	BELOW FINISHED CEILING
BLDG	BUILDING
BSC	BELOW STRUCTURAL CEILING
C/L	CENTRE LINE
C/W	COMPLETE WITH
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CLR	CLEARANCE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
DEG	DEGREES
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DP	DEPTH
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
F/O	FACE OF
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FIM	FREE ISSUE MATERIAL
FLR	FLOOR
FT	FOOT/ FEET
GA	GAUGE
GWB	GYPSON WALL BOARD
GWG	GEORGIAN WIRE GLASS
GYP	GYPSON
ID	INSIDE DIAMETER
INFO	INFORMATION
INSUL	INSULATION
L	LENGTH

ARCHITECTURAL ABBREVIATIONS

ABBREVIATION	DEFINITION
LL	LIVE LOAD
m	METER
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
mm	MILLIMETER
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
No.	NUMBER
NTS	NOT TO SCALE
O/C	ON CENTRE
O/H	OVERHEAD
OD	OUTSIDE DIAMETER
OPP	OPPOSITE
OWSJ	OPEN WEB STEEL JOIST
PLAM	PLASTIC LAMINATE
PSPI	PLANT SUPPLIED PLANT INSTALLED
PSSI	PLANT SUPPLIED SITE INSTALLED
PT	PRESSURE TREATED
R	RADIUS
R/W	REINFORCE WITH
REINF	REINFORCED
SF	SQUARE FEET
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSSI	SITE SUPPLIED SITE INSTALLED
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STRUCT	STRUCTURAL
SUSP	SUSPENDED
T/O	TOP OF
TBD	TO BE DETERMINED
TOC	TOP OF CURB
TOF	TOP OF FLOOR
TOS	TOP OF STEEL
TYP	TYPICAL
U/G	UNDER GROUND
U/S	UNDERSIDE
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/C	WATER CLOSET



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PRPF20241230

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH		DRAWING TITLE: ARCHITECTURAL GENERAL INFORMATION		
CLIENT: CASCADE CHRISTIAN SCHOOL	PROJECT NO: 1107994	DRAWING NO: AM002	REV. # A	

REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	NM	

EXTERIOR WALLS

	E02	
	EXTERIOR SIDE	
	HARDIE PANEL SIDING	
	WALL STRAPPING - 3/4" PT PLYWOOD	
	WRB COMMERCIAL, AIR BARRIER	
	PLYWOOD SHEATHING - 1/2" CDX	
	5 1/2" FIBREGLASS BATT INSULATION - R24	
	WOOD STUD - 2x6, 16" O/C	
	5/8" GWB, TYPE "X", NO BATTEN	
<p>U = 0.058 Btu/ (°F·ft² ·h) 0.33 W/m²K</p>		

NOTE:
 - 5/8" TYPE "X" VINYL COVERED GYPSUM (CLASS I F.S. , CLASS II VAPOR RETARDER)
 - DOUBEL TOP PLATE (SPF #2)
 - TRIPLE 2x6 (SPF #2) ROUGH OPENING HEADERS

ROOFS

	RF06	
	EXTERIOR	
	ROOF ASPHALT SHINGLES c/w ICE AND WATER BARRIER	
	1/2" F.R. PLYWOOD - OR - 1/2" PLYWOOD W/ F.R. ADHESIVE	
	WOOD JOIST - 2x12- 24" o.c.	
	11 1/4" FIBREGLASS BATT, R52 (R40+R12)	
	METAL WIRE	
	ACOUSTIC CEILING TILE - 24" x 48"	
<p>U = 0.023 Btu/ (°F·ft² ·h) 0.13 W/m²K</p>		

NOTE:
 METAL WIRE TO SAG BETWEEN RAFTERS TO ACCOMMODATE R52 INSULATION - DO NOT COMPRESS - HOLD UP WITH WIRE

FLOORS

	FL05	
	INTERIOR SIDE	COMMENTS
	FLOOR COVERING - CARPET TILE	VINYL FLOORING IN WASHROOM
	PLYWOOD SHEATHING, 3/4" SE - SELECT	
	PLYWOOD SHEATHING, 3/4" T&G - STANDARD	W/ VAPOR BARRIER PAINT ON UNDERSIDE
	FIBREGLASS INSULATION - R31	
	WOOD JOIST - 2x10	
	PLYWOOD SHEATHING 3/8" PT	
<p>U = 0.033 Btu/ (°F·ft² ·h) 0.19 W/m²K</p>		

PARTITIONS

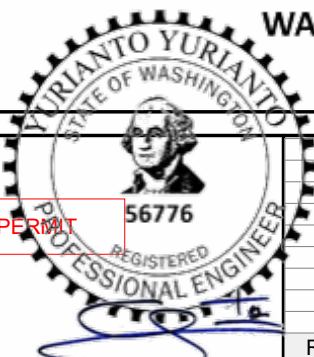
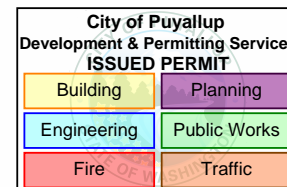
	P03	
	5/8" GWB, TYPE "X", NO BATTEN	
	3 1/2" FIBREGLASS BATT INSULATION - R12	
	WOOD STUD - 2x4, 16" O/C	
	5/8" GWB, TYPE "X", NO BATTEN	

	P04	
	5/8" GWB, TYPE "X", NO BATTEN	
	3 1/2" FIBREGLASS BATT INSULATION - R12	
	WOOD STUD - 2x6, 16" O/C	
	5/8" GWB, TYPE "X", NO BATTEN	FRP IN WASHROOM

	P10	
	3-5/8" x 1-1/2" STEEL STUD @ 16" O.C.	
	5/8" GWB, TYPE "X", NO BATTEN	

	P21	
	5/8" GWB, TYPE "X", NO BATTEN - FRP	
	WOOD STUD - 2x4, 16" O/C	

	P22	
	5/8" GWB, TYPE "X", NO BATTEN	
	WOOD STUD - 2x6, 16" O/C	



FOR PERMIT

PRPF20241230



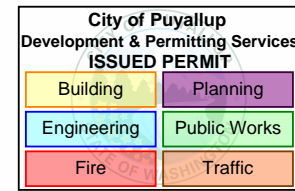
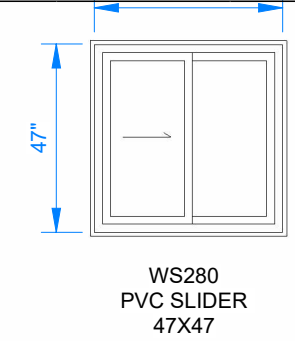
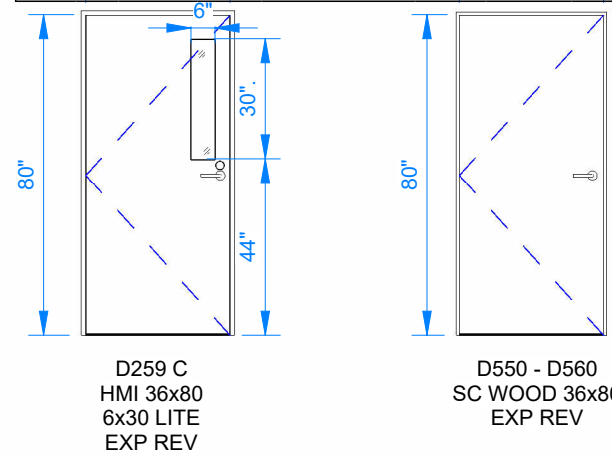
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By Yuri at 4:44:46 PM, 6/10/2024

A	2024-06-07	ISSUED FOR STATE APPROVAL	NM		PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH	DRAWING TITLE: ASSEMBLY SCHEDULES		
REV.	DATE	DESCRIPTION	BY	CHK/APR	CLIENT: CASCADE CHRISTIAN SCHOOL	PROJECT NO: 1107994	DRAWING NO: AM010	REV. # A

DOOR SCHEDULE.

TYPE MARK	QTY.	FUNCTION	DOOR SWING	PANEL TYPE	DIMENSIONS					LITE		FRAME PARAMETERS			KICKPLATE			PANIC HARDWARE	KEYED ENTRY LEVER SET	DOREX L42 GRADE 2 PRIVACT LEVER	PASSAGE LEVER	ALUM NEOPRENE WEATHER STRIP	3/8" ALUM/TPE DOOR SWEEP C/W DRIP CAP	DOOR CLOSER	BALL BEARING HINGES, 4 1/2" X 4"	DS600 - 6" ALUMINUM 1/2" RISE THRESHOLD	STORE ROOMLOCKSET	D-PULL, ALUMINUM 9", CW 4X16" PUSH PLATE	2560 HEAVY DUTY CHAIN CHECK	T233 DOOR STOP, WALL MOUNTED.	COMMENTS		
					SILL HEIGHT	WIDTH	HEIGHT	ROUGH WIDTH	ROUGH HEIGHT	EXTERIOR COLOUR	INTERIOR COLOUR	REQ.	WIDTH	HEIGHT	FRAME TYPE	THROAT SIZE	FRAME COLOUR															REQ.	WIDTH
D265C	2	Exterior	LHR	COMM. INSULATED STEEL	0' - 0"	3' - 0"	6' - 8"	3' - 2 1/4"	6' - 9"	DARK BLUE	SOFTWARE SW7074	Yes	0' - 6"	2' - 6"	WELDED	0' - 6 5/8"	DARK BLUE / INT SOFTWARE SW7074	No	0' - 0"	0' - 0"	Yes	Yes		No	Yes	Yes		3	1		Yes	No	R-6.87
D550F	1	Interior	RH	SC WOOD	0' - 0"	3' - 0"	6' - 8"	3' - 1 1/2"	6' - 9 1/8"	SOFTWARE SW7074	SOFTWARE SW7074	No	0' - 0"	0' - 0"	18ga EXP REV STEEL FRAME	0' - 4 3/4"	SOFTWARE SW7074	Yes	2' - 10 1/2"	0' - 10"	No		Yes	No			3	No	No	No	Yes	BARRIER FREE SIGN	
D550H	2	Interior			0' - 0"	0' - 0"	0' - 0"	7' - 1 1/4"	8' - 1"																								
D550N	2	Interior	RH	SC WOOD	0' - 0"	3' - 0"	6' - 8"	3' - 1 1/2"	6' - 9 1/8"	SOFTWARE SW7074	SOFTWARE SW7074	No	0' - 0"	0' - 0"	18ga EXP REV STEEL FRAME	0' - 4 3/4"	SOFTWARE SW7074	Yes	2' - 10 1/2"	0' - 10"	No		No			Yes	3	No	Yes	No	Yes	BARRIER FREE SIGN	
D550P	1	Interior	RH	SC WOOD	0' - 0"	3' - 0"	6' - 8"	3' - 1 1/2"	6' - 9 1/8"	SOFTWARE SW7074	SOFTWARE SW7074	No	0' - 0"	0' - 0"	18ga EXP REV STEEL FRAME	0' - 4 3/4"	SOFTWARE SW7074	No	0' - 0"	0' - 0"			No			No	3	Yes		No	Yes		
D560G	2	Interior	LH	SC WOOD	0' - 0"	3' - 0"	6' - 8"	3' - 1 1/2"	6' - 9 1/8"	SOFTWARE SW7074	SOFTWARE SW7074	No	0' - 0"	0' - 0"	18ga EXP REV STEEL FRAME	0' - 4 1/8"	SOFTWARE SW7074	No	0' - 0"	0' - 0"			Yes			No	3			No	Yes		
D560G	1	Interior	RH	SC WOOD	0' - 0"	3' - 0"	6' - 8"	3' - 1 1/2"	6' - 9 1/8"	SOFTWARE SW7074	SOFTWARE SW7074	No	0' - 0"	0' - 0"	18ga EXP REV STEEL FRAME	0' - 4 1/8"	SOFTWARE SW7074	No	0' - 0"	0' - 0"			Yes			No	3			No	Yes		
D560G	1	Interior	RHR	SC WOOD	0' - 0"	3' - 0"	6' - 8"	3' - 1 1/2"	6' - 9 1/8"	SOFTWARE SW7074	SOFTWARE SW7074	No	0' - 0"	0' - 0"	18ga EXP REV STEEL FRAME	0' - 6 3/4"	SOFTWARE SW7074	No	0' - 0"	0' - 0"			Yes			No	3			No	Yes		



DOOR TAG LEGEND:

DOOR STOP LOCATION
 WS: WALL MOUNTED DOOR STOP
 FS: FLOOR MOUNTED DOOR STOP
 HP: HINGE PIN
 CS: CHAIN STOP

THRESHOLD SIZE
 X: X" FLAT ALUMINUM THRESHOLD
 XT: X" THERMALLY BROKEN THRESHOLD

DOOR SWING
 LH: LEFT HAND
 RH: RIGHT HAND
 RHR: RIGHT HAND REVERSE
 LHR: LEFT HAND REVERSE

DOOR & WINDOW LEGEND

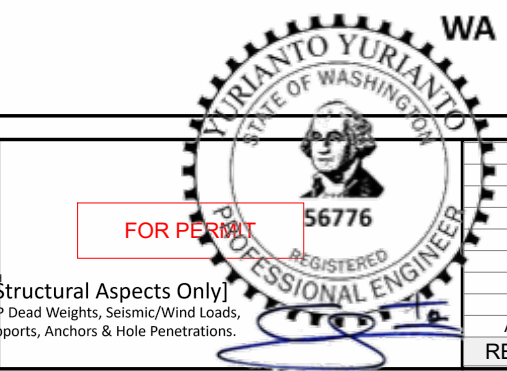
WINDOW SCHEDULE

WINDOW NO.	QTY	DIMENSIONS				TYPE	ROUGH OPENING		MATERIAL	FINISH COLOUR	JAMB THICKNESS	GLAZING		WINDOW COLOUR	WINDOW SHGC	WINDOW U-VALUE, (W/m²K)	COMMENTS
		WIDTH	HEIGHT	HEAD HEIGHT	SILL HEIGHT		WIDTH	HEIGHT				DESCRIPTION	DP				
WS280	4	47"	47"	82"	35"	HORZ SLIDER	48"	48"	PVC	WHITE	6 5/8"	DUAL GLAZED, SOFTCOAT LOW E, ARGON	45	WHITE	0.3	1.36	BUG SCREEN

Window Performance to be tested in accordance with NAFS



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PRPF20241230

PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH	DRAWING TITLE:	OVERALL DOOR & WINDOW SCHEDULE		
CLIENT:	CASCADE CHRISTIAN SCHOOL	PROJECT NO:	1107994	DRAWING NO:	AM020
REV. #	A	REV. #	A	REV. #	A

By Yuri at 4:44:47 PM, 6/10/2024

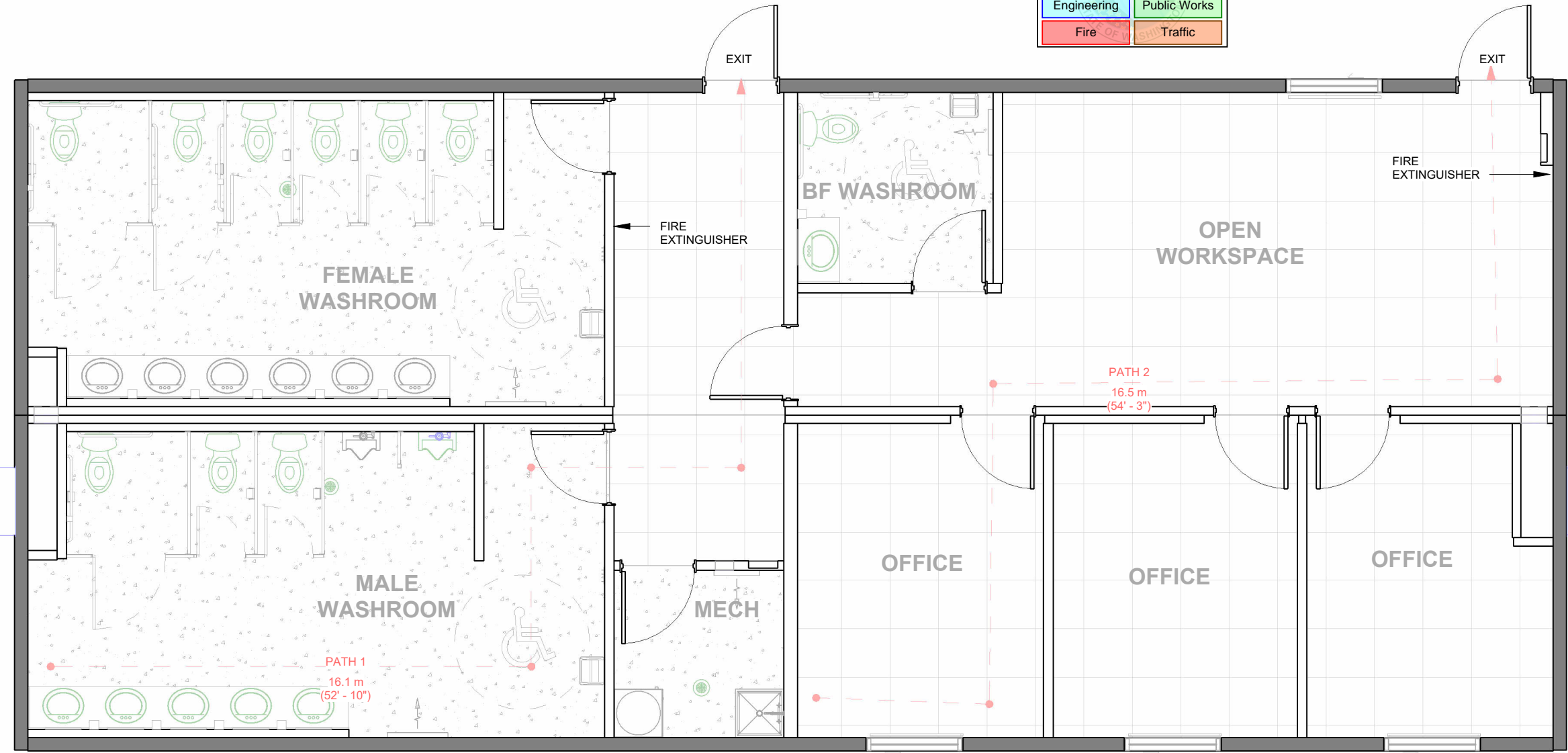
PLOT DATE: 2024-06-07 2:42:38 PM

R2024.1

11x17 Titleblock

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

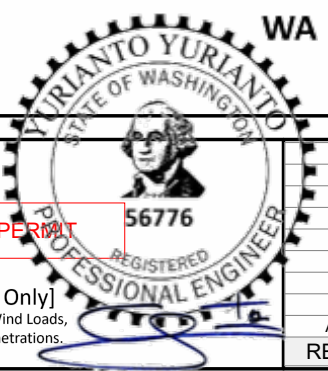


1 OVERALL FIRE SAFETY PLAN
3/16" = 1'-0"

PATH OF TRAVEL SCHEDULE		
PATH	ft	m
PATH 1	52' - 10 1/4"	16 m
PATH 2	54' - 2 7/8"	17 m

KEY PLAN

101
102



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Structural Aspects Only
M/P Dead Weights, Seismic/Wind Loads, Supports, Anchors & Hole Penetrations.

PRPF20241230

REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	NM	

PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH		DRAWING TITLE:	OVERALL FIRE SAFETY PLAN			
CLIENT:	CASCADE CHRISTIAN SCHOOL	PROJECT NO:	1107994	DRAWING NO:	AM051	REV. #	A

By Yuri at 4:44:49 PM, 6/10/2024

STATE LABEL & DATA
PLATE LOCATION

STATE LABEL & DATA
PLATE LOCATION

STATE LABEL & DATA
PLATE LOCATION

DOOR SCHEDULE UNIT	
DOOR TAG	QTY
D265C	2
D550F	1
D550N	2
D550P	1
D560G	4
	10

WINDOW SCHEDULE UNIT	
WINDOW NO.	QTY
WS280	4

NOTE:
FOR DOOR AND WINDOW SIZES
REFER TO AM020

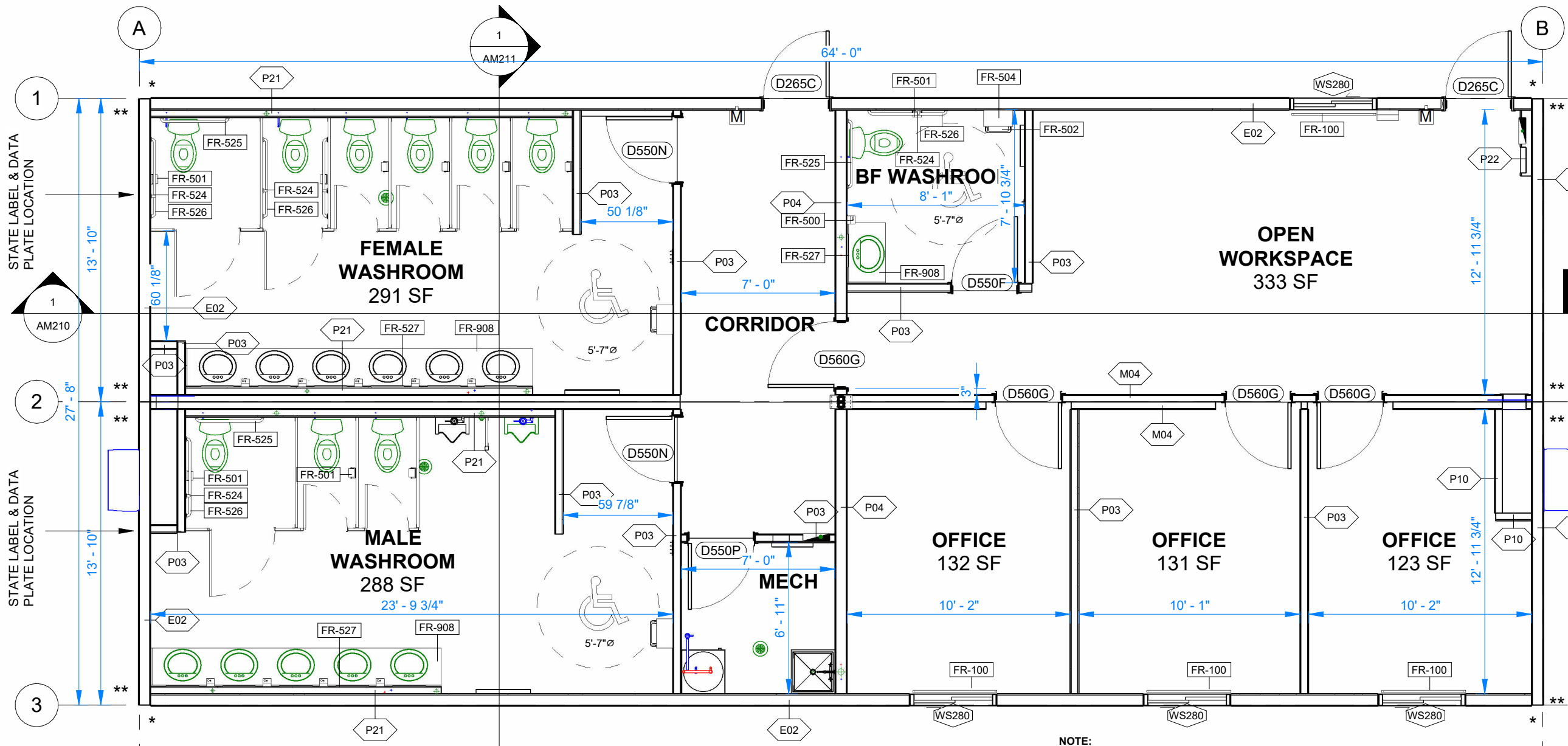
* = (1) MSTC28
** = (2) MSTC28

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

KEY PLAN

101
102



1 OVERALL FLOOR PLAN
3/16" = 1'-0"

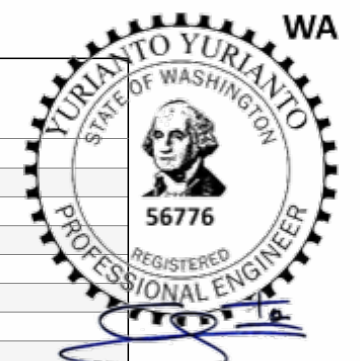
NOTE:
- ALL TURNING CIRCLES ARE 67" RADIUS WITH 10" OF ALLOWABLE OVERLAP WITH PROVIDED KNEE SPACE BELOW AS PER WA 2017 A117.1 - 304.3.1 - CIRCULAR SPACE

OVERALL - ROOM FINISH SCHEDULE

ROOM	FLOOR FINISH	BASE FINISH	WALL FINISH	WINDOW TRIM	CEILING FINISH	CEILING HEIGHT
BF WASHROOM	COMMERCIAL GRADE VINYL ROLL GOODS (TARKETT STANDARD PLUS, COLOUR:21003 494)	4" RUBBER BASE, COLOR: COI / ROPPE BLACK	VC CLAD GYPSUM NO BATTENS, COLOR DLETA MOONLIGHT	2 1/2" MDF PAINTED WHITE	24X48 T-BAR CEILING W/COLOR WHITE, RADAR 2742 ILLUSION 2/24 SLT	7' - 8"
CORRIDOR	COI CARPET, COLOR: CLEVERISH	4" RUBBER BASE, COLOR: COI / ROPPE BLACK	VC CLAD GYPSUM NO BATTENS, COLOR DLETA MOONLIGHT	2 1/2" MDF PAINTED WHITE	24X48 T-BAR CEILING W/COLOR WHITE, RADAR 2742 ILLUSION 2/24 SLT	7' - 10"
FEMALE WASHROOM	COMMERCIAL GRADE VINYL ROLL GOODS (TARKETT STANDARD PLUS, COLOUR:21003 494)	4" RUBBER BASE, COLOR: COI / ROPPE BLACK	VC CLAD GYPSUM NO BATTENS, COLOR DLETA MOONLIGHT	2 1/2" MDF PAINTED WHITE	24X48 T-BAR CEILING W/COLOR WHITE, RADAR 2742 ILLUSION 2/24 SLT	7' - 8"
MALE WASHROOM	COMMERCIAL GRADE VINYL ROLL GOODS (TARKETT STANDARD PLUS, COLOUR:21003 494)	4" RUBBER BASE, COLOR: COI / ROPPE BLACK	VC CLAD GYPSUM NO BATTENS, COLOR DLETA MOONLIGHT	2 1/2" MDF PAINTED WHITE	24X48 T-BAR CEILING W/COLOR WHITE, RADAR 2742 ILLUSION 2/24 SLT	7' - 8"
MECH	COMMERCIAL GRADE VINYL ROLL GOODS (TARKETT STANDARD PLUS, COLOUR:21003 494)	4" RUBBER BASE, COLOR: COI / ROPPE BLACK	VC CLAD GYPSUM NO BATTENS, COLOR DLETA MOONLIGHT	2 1/2" MDF PAINTED WHITE	NA	8' - 0 1/4"
OFFICE	COI CARPET, COLOR: CLEVERISH	4" RUBBER BASE, COLOR: COI / ROPPE BLACK	VC CLAD GYPSUM NO BATTENS, COLOR DLETA MOONLIGHT	2 1/2" MDF PAINTED WHITE	24X48 T-BAR CEILING W/COLOR WHITE, RADAR 2742 ILLUSION 2/24 SLT	7' - 10"
OPEN WORKSPACE	COI CARPET, COLOR: CLEVERISH	4" RUBBER BASE, COLOR: COI / ROPPE BLACK	VC CLAD GYPSUM NO BATTENS, COLOR DLETA MOONLIGHT	2 1/2" MDF PAINTED WHITE	24X48 T-BAR CEILING W/COLOR WHITE, RADAR 2742 ILLUSION 2/24 SLT	7' - 10"

FURNITURE AND EQUIPMENT SCHEDULE

TAG	QTY	DESCRIPTION
FR-100	4	VINYL CORDLESS MINI BLINDS 45"W X 47"H COLOR: WHITE
FR-111	1	COAT HOOK BOARD - 2 HOOKS - 57" AFF
FR-500	10	SOAP DISPENSER
FR-501	10	SINGLE ROLL TOILET PAPER HOLDER
FR-502	3	WALL MOUNTED WASTE DISPOSAL BIN - 9" FROM BOTTOM TO FINISHED FLOOR
FR-503	2	COAT HOOK BOARD - 4 HOOKS - 57" AFF
FR-504	3	WALL MOUNTED PAPER TOWEL DISPENSER - 46" FROM BOTTOM TO FINIHSED FLOOR
FR-524	5	18" GRAB BAR, BARRIER FREE WASHROOM
FR-525	3	36" GRAB BAR, BARRIER FREE WASHROOM
FR-526	5	42" GRAB BAR, BARRIER FREE WASHROOM
FR-527	12	MIRROR CSB ARRIS EDGE W/ HW ZINC PLATED VANCOUVER CLIP 3MM (1/8") SIZE: 18"W X 36"H
FR-908	3	ADA LAVATORY COUNTERTOP. 4" BACKSPASH. HQ LAMINATE COLOR WILSONART COTE D'AZURE



By Yuri at 4:44:53 PM, 6/10/2024



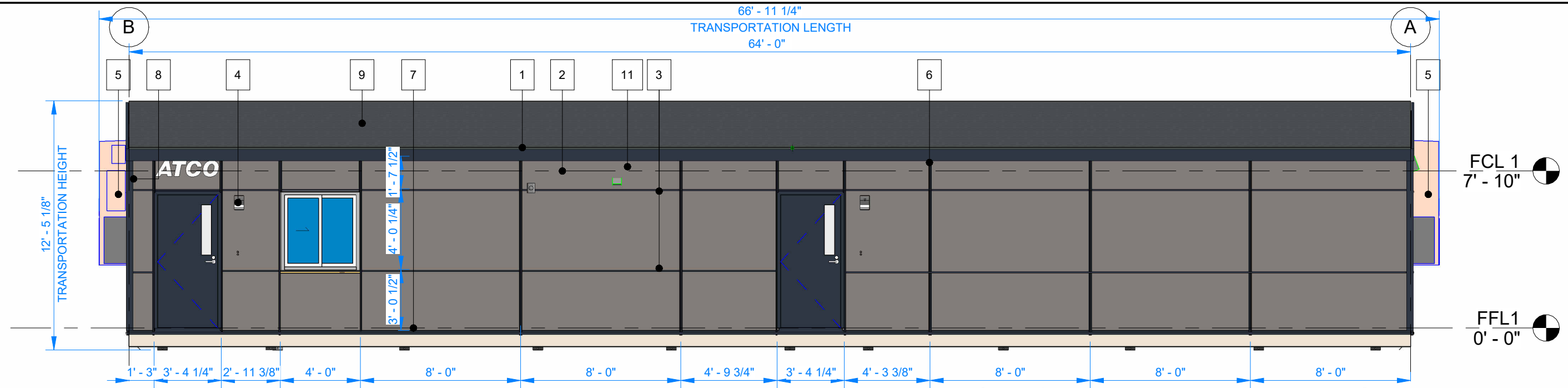
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PRPF20241230

REV.	DATE	ISSUED FOR STATE APPROVAL DESCRIPTION	NM BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	NM	

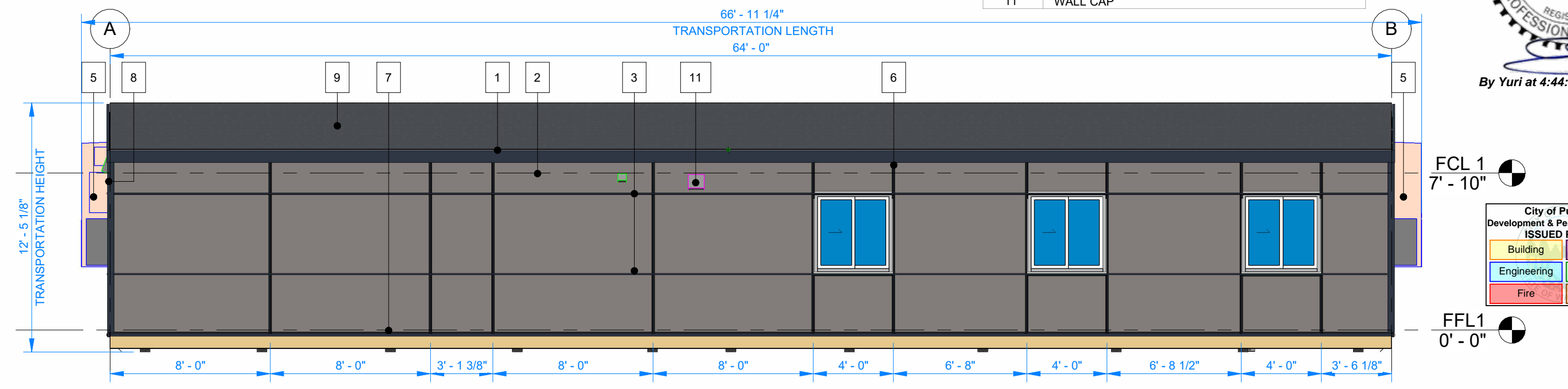
PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH
CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: OVERALL FLOOR PLAN
PROJECT NO: 1107994
DRAWING NO: AM101
REV. #: A

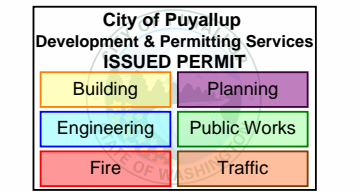


1 FRONT ELEVATION
3/16" = 1'-0"

MARK	DESCRIPTION
1	FASCIA - DARK BLUE
2	HARDIE PANEL - AGED PEWTER
3	DRIP CAP - DARK BLUE
4	EXTERIOR LIGHT
5	BARD UNIT
6	DOUBLE J-TRIM -DARK BLUE
7	STARTER - DARK BLUE
8	OUTSIDE CORNER -DARK BLUE
9	ASPHALT ROOF SHINGLE - ESTATE GRAY
10	FLAT STOCK - DARK BLUE
11	WALL CAP



2 BACK ELEVATION
3/16" = 1'-0"



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A	2024-06-07	ISSUED FOR STATE APPROVAL	NM	

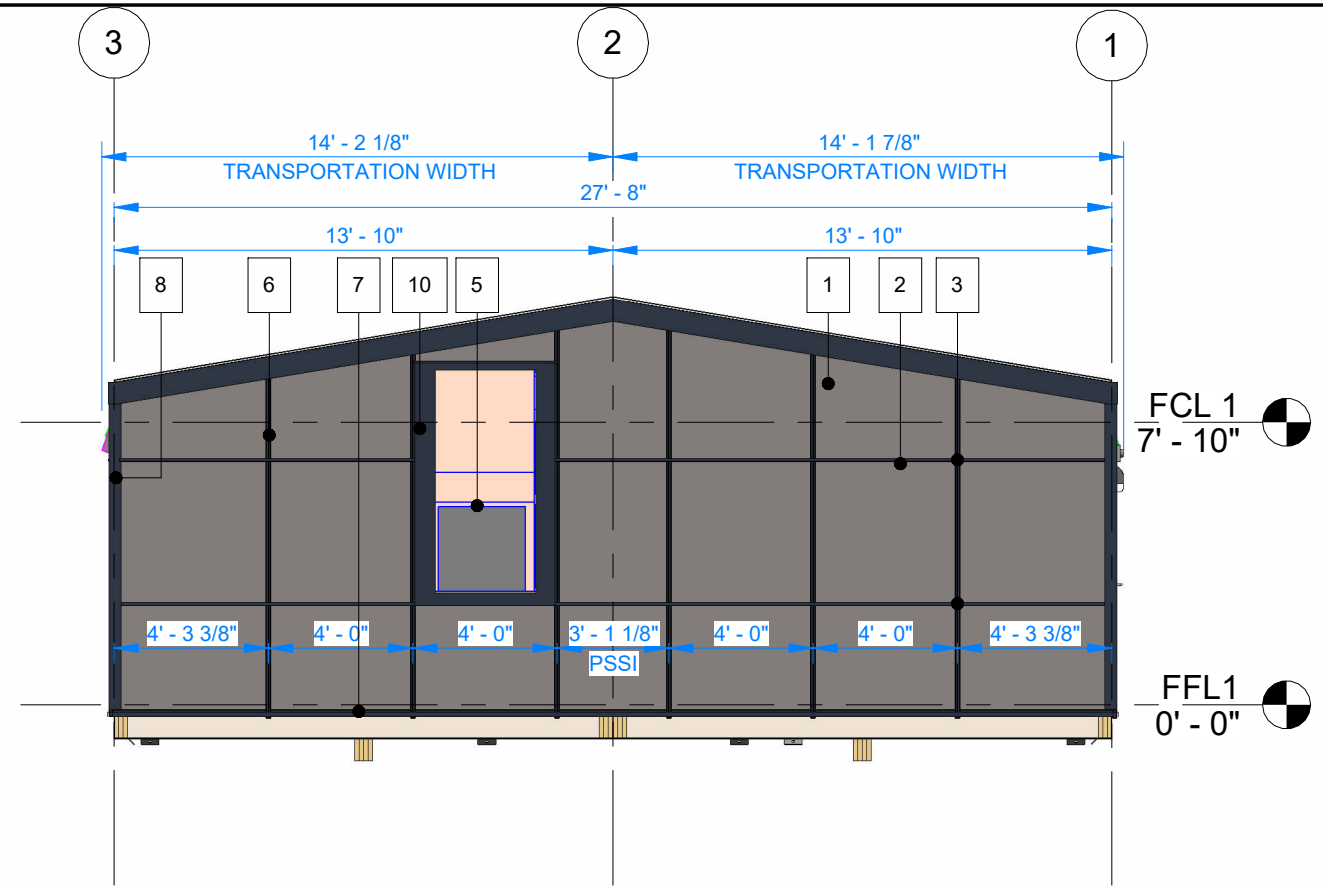
PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH
CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: OVERALL BUILDING ELEVATION
PROJECT NO: 1107994
DRAWING NO: AM200
REV. #: A

PLOT DATE: 2024-06-07 2:33:51 PM

R2024.1

11x17 Titleblock



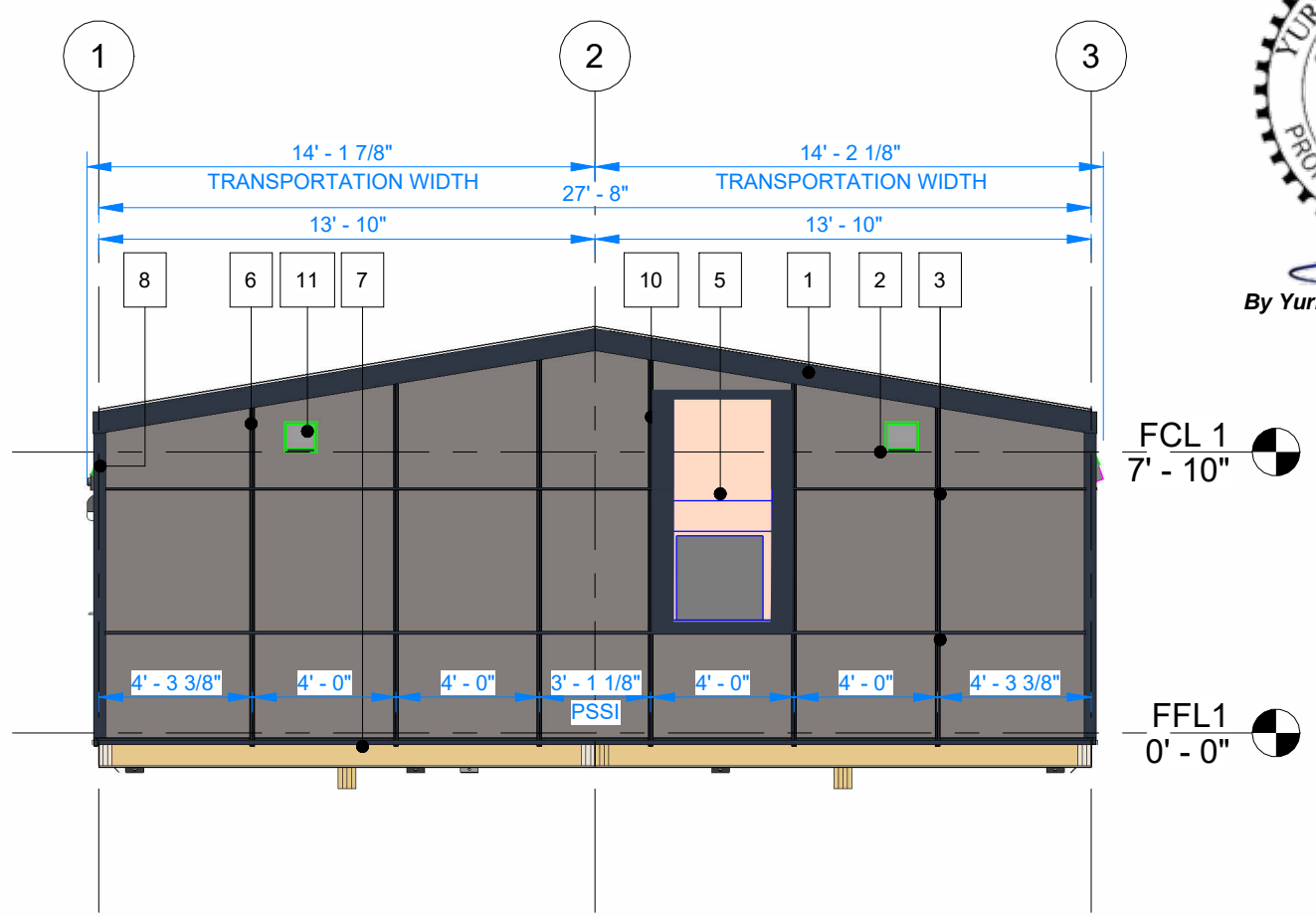
1 RIGHT ELEVATION
3/16" = 1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

MARK	DESCRIPTION
1	FASCIA - DARK BLUE
2	HARDIE PANEL - AGED PEWTER
3	DRIP CAP - DARK BLUE
4	EXTERIOR LIGHT
5	BARD UNIT
6	DOUBLE J-TRIM - DARK BLUE
7	STARTER - DARK BLUE
8	OUTSIDE CORNER - DARK BLUE
9	ASPHALT ROOF SHINGLE - ESTATE GRAY
10	FLAT STOCK - DARK BLUE
11	WALL CAP

By Yuri at 4:44:58 PM, 6/10/2024



2 LEFT ELEVATION
3/16" = 1'-0"



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A	2024-06-07	ISSUED FOR STATE APPROVAL	NM	

PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH
CLIENT:	CASCADE CHRISTIAN SCHOOL

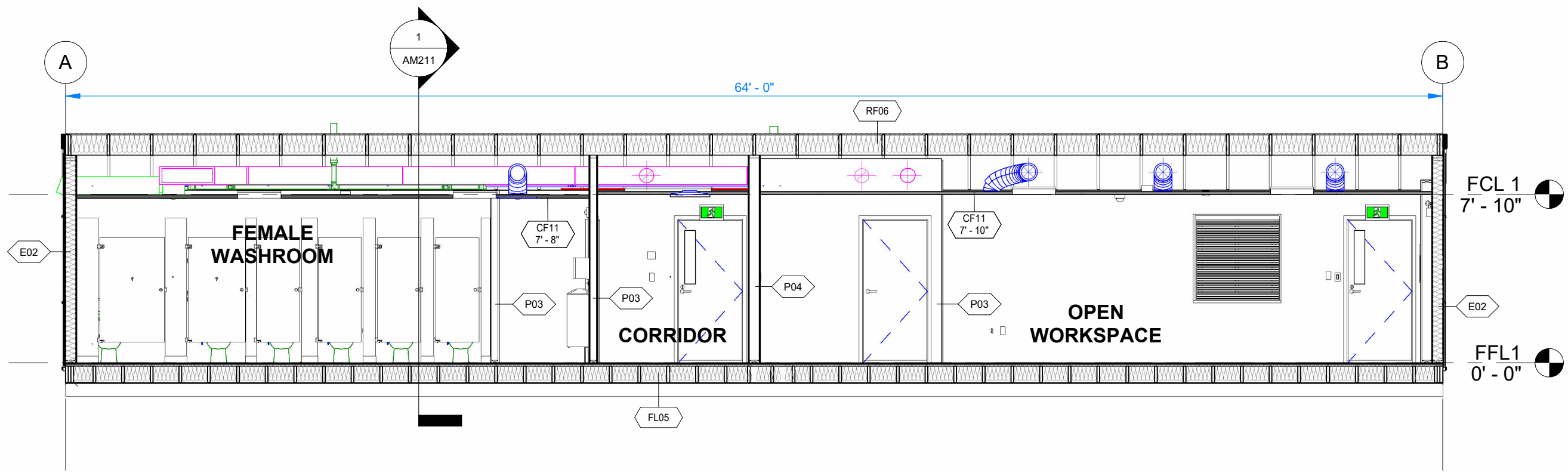
DRAWING TITLE: OVERALL BUILDING ELEVATION	
PROJECT NO: 1107994	DRAWING NO: AM201
REV. # A	

PLOT DATE: 2024-06-07 2:33:55 PM

R2024.1

11x17 Titleblock

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



1 BUILDING SECTION - LONG
3/16" = 1'-0"

NOTE:
FOR ROOF, WALL AND FLOOR ASSEMBLY DETAILS REFER
TO AM010.



By Yuri at 4:45:00 PM, 6/10/2024



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REV.	DATE	DESCRIPTION	BY	CHK/APR
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PROJECT:
28x64 ASL USA SR FLEET
OFFICE WASH

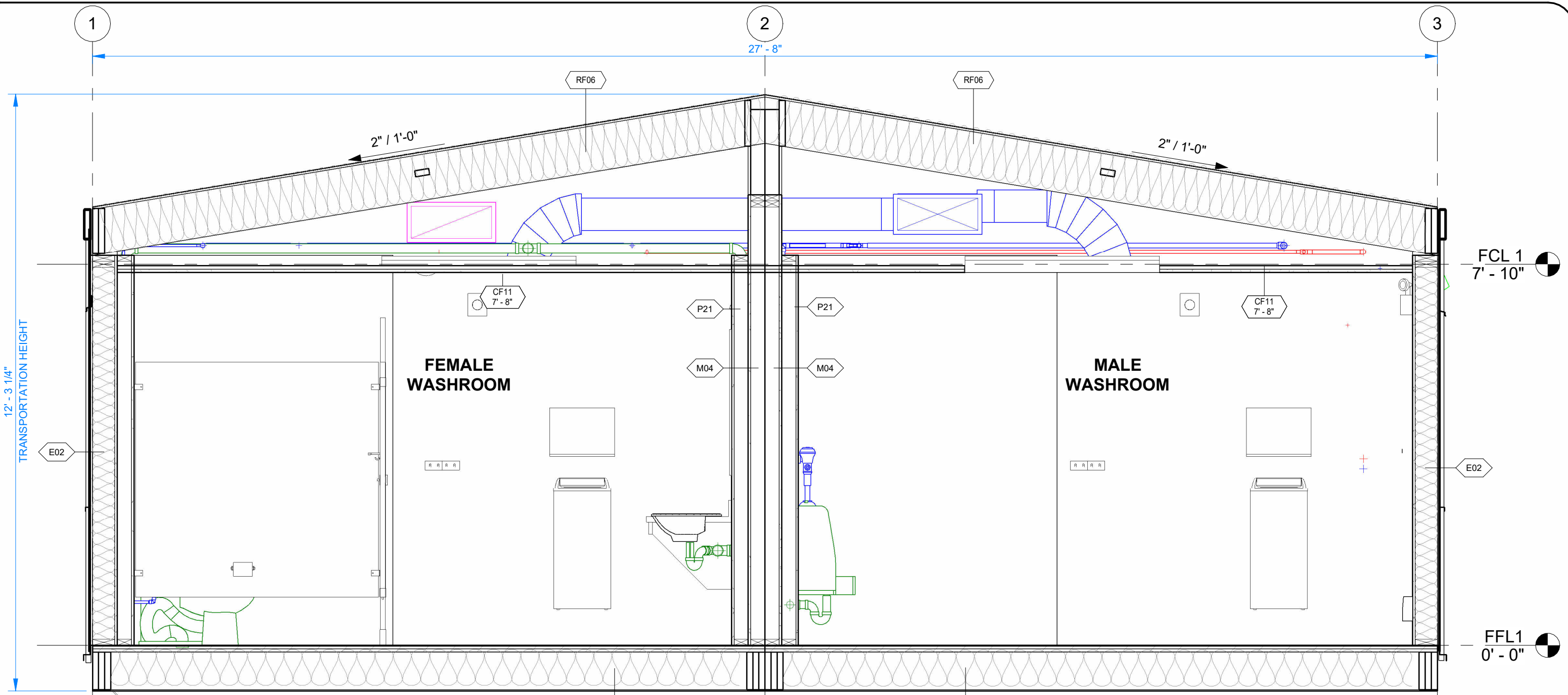
CLIENT:
CASCADE CHRISTIAN SCHOOL

DRAWING TITLE:
OVERALL BUILDING SECTIONS

PROJECT NO:
1107994

DRAWING NO:
AM210

REV. #
A



1 BUILDING SECTION - SHORT
1/2" = 1'-0"

NOTE:
FOR ROOF, WALL AND FLOOR ASSEMBLY DETAILS REFER
TO AM010.

City of Puyallup
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Building	Planning
Engineering	Public Works
Fire	Traffic



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REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	NM	

PROJECT:
28x64 ASL USA SR FLEET
OFFICE WASH

CLIENT:
CASCADE CHRISTIAN SCHOOL

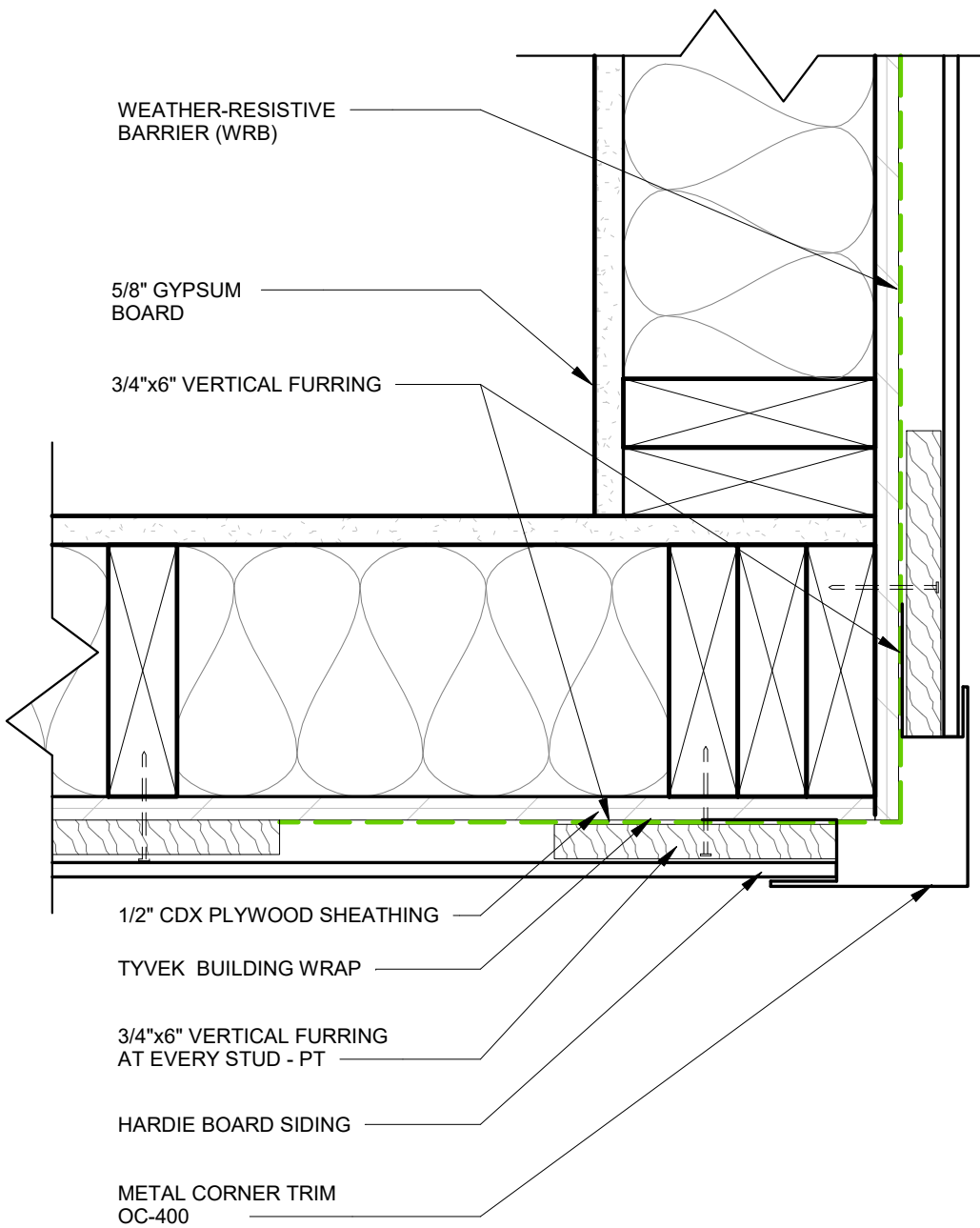
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PROJECT NO: 1107994	DRAWING NO: AM211	REV. # A

PLOT DATE: 2024-06-07 4:12:12 PM

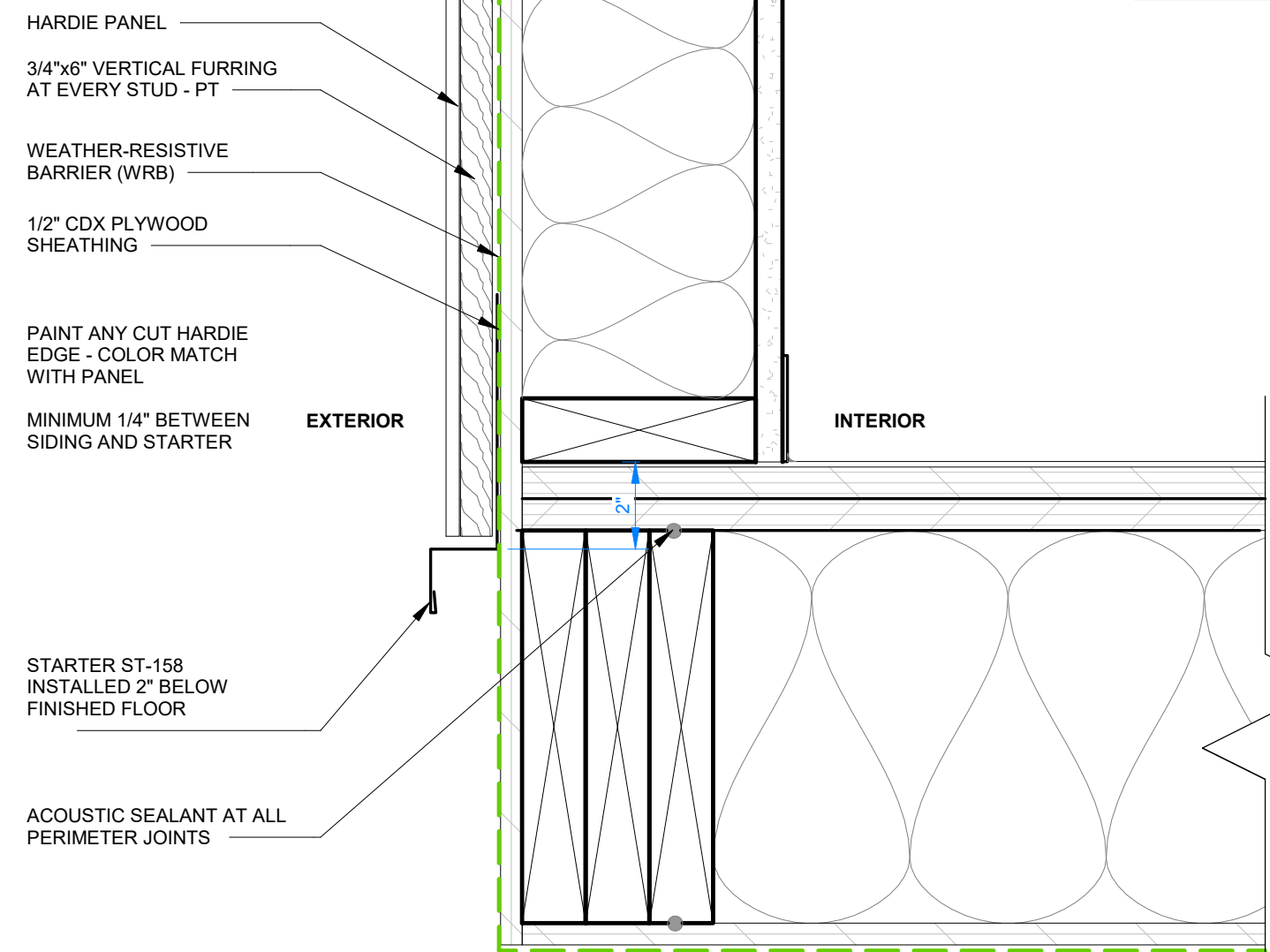
11x17 Titleblock R2022.1

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



1 HARDIE BOARD SIDING CORNER1
3" = 1'-0"



2 HARDIE PANEL DETAIL AT FLOOR1
3" = 1'-0"



By Yuri at 4:45:02 PM, 6/10/2024



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REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	NM	

PROJECT:
28x64 ASL USA SR FLEET
OFFICE WASH

CLIENT:
CASCADE CHRISTIAN SCHOOL

DRAWING TITLE:
EXTERIOR FINISH DETAILS - CLADDING

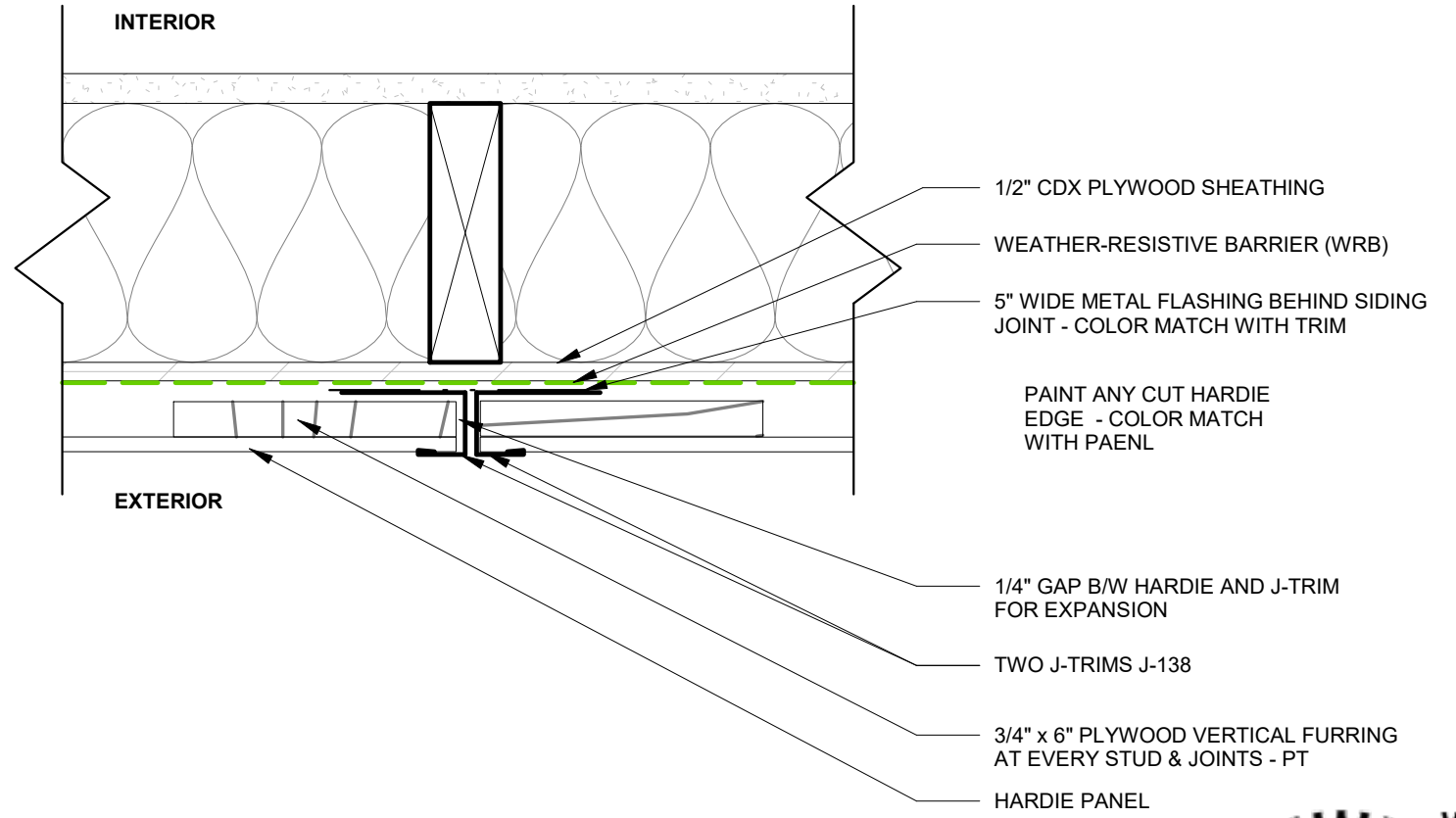
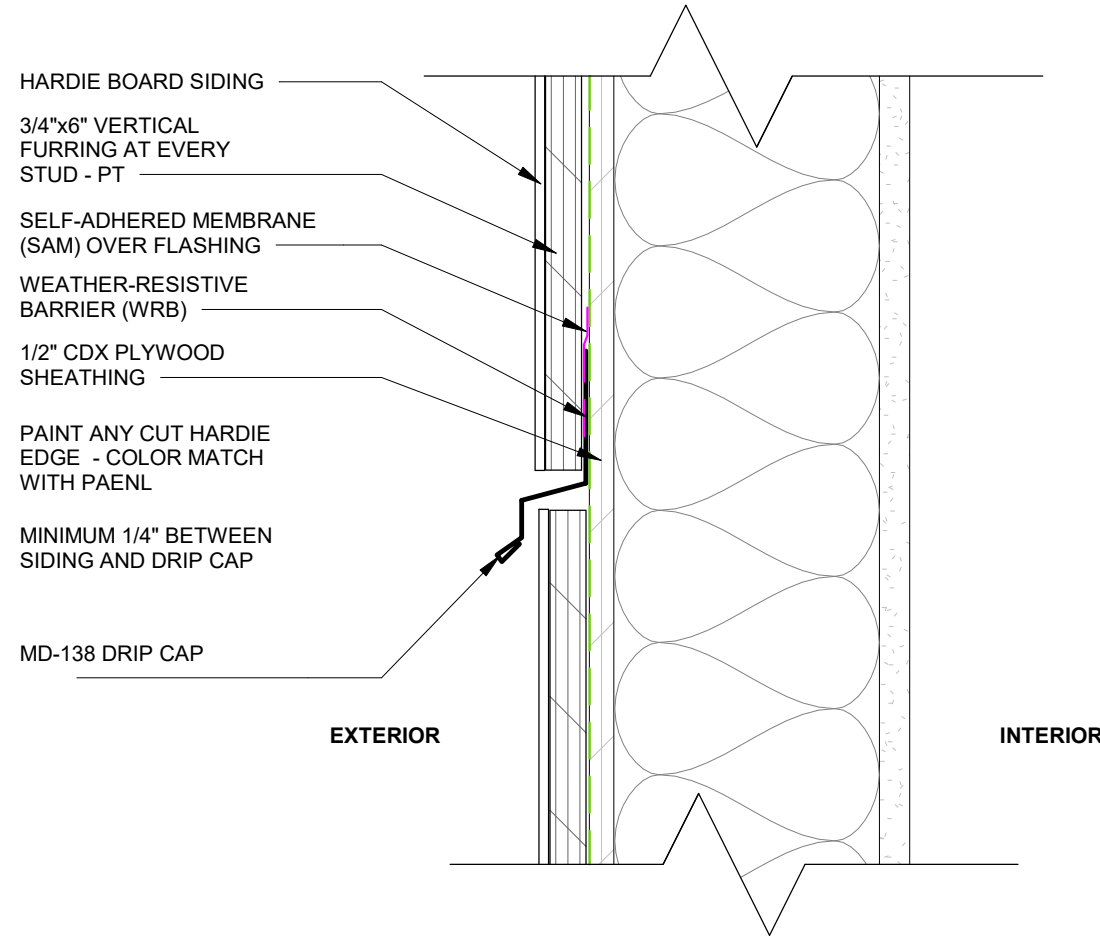
PROJECT NO:
1107994

DRAWING NO:
AM301

REV. #
A

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



1 BOARD TO BOARD SECTION DETAIL1
3" = 1'-0"

2 HARDIE PLANK TO PANEL TRANSITION PLAN1
3" = 1'-0"

YURIANTO YURIANTO WA
STATE OF WASHINGTON
56776
REGISTERED PROFESSIONAL ENGINEER

By Yuri at 4:45:02 PM, 6/10/2024



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REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	NM	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH

CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: EXTERIOR FINISH DETAILS - CLADDING

PROJECT NO: 1107994

DRAWING NO: AM302

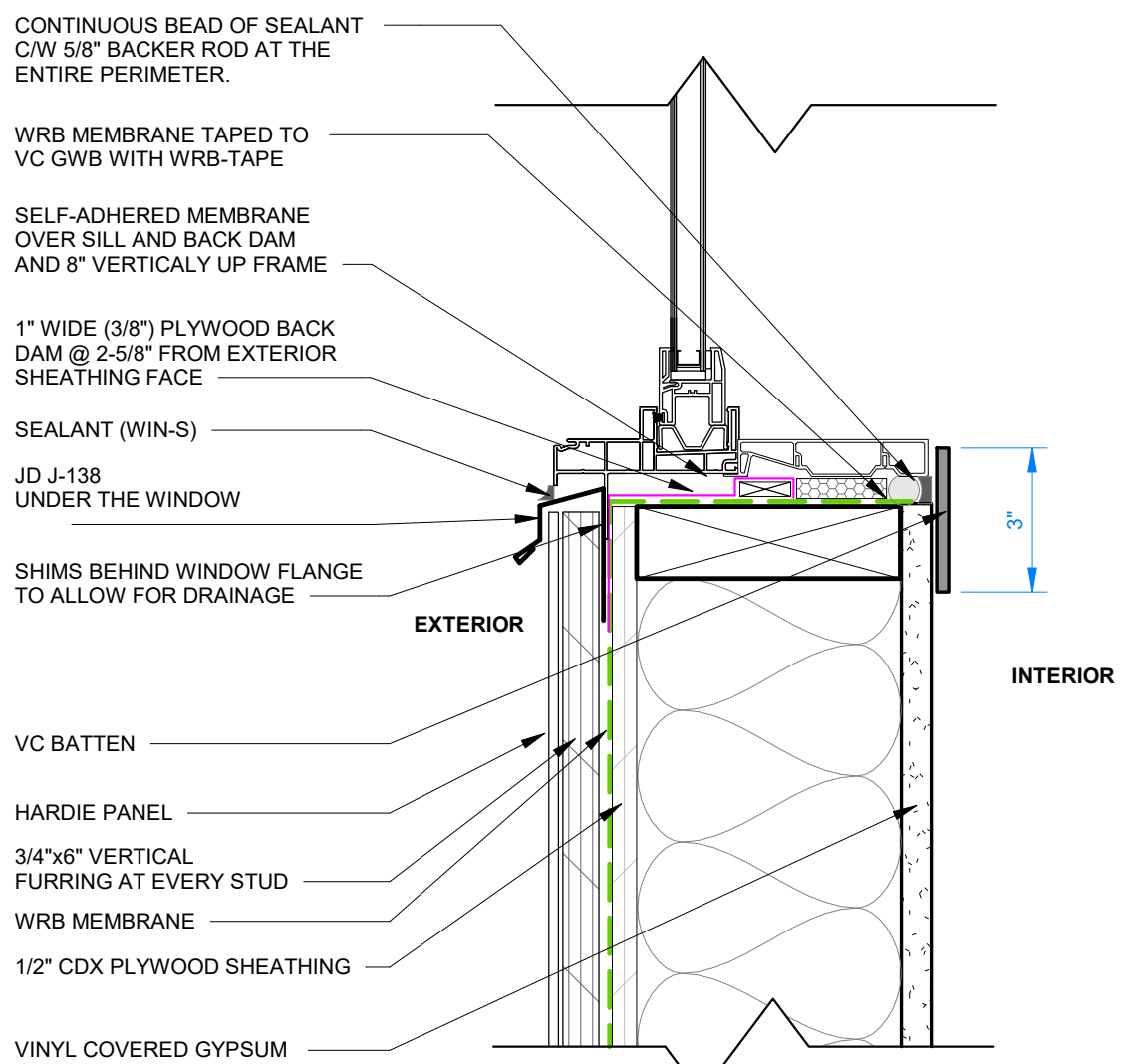
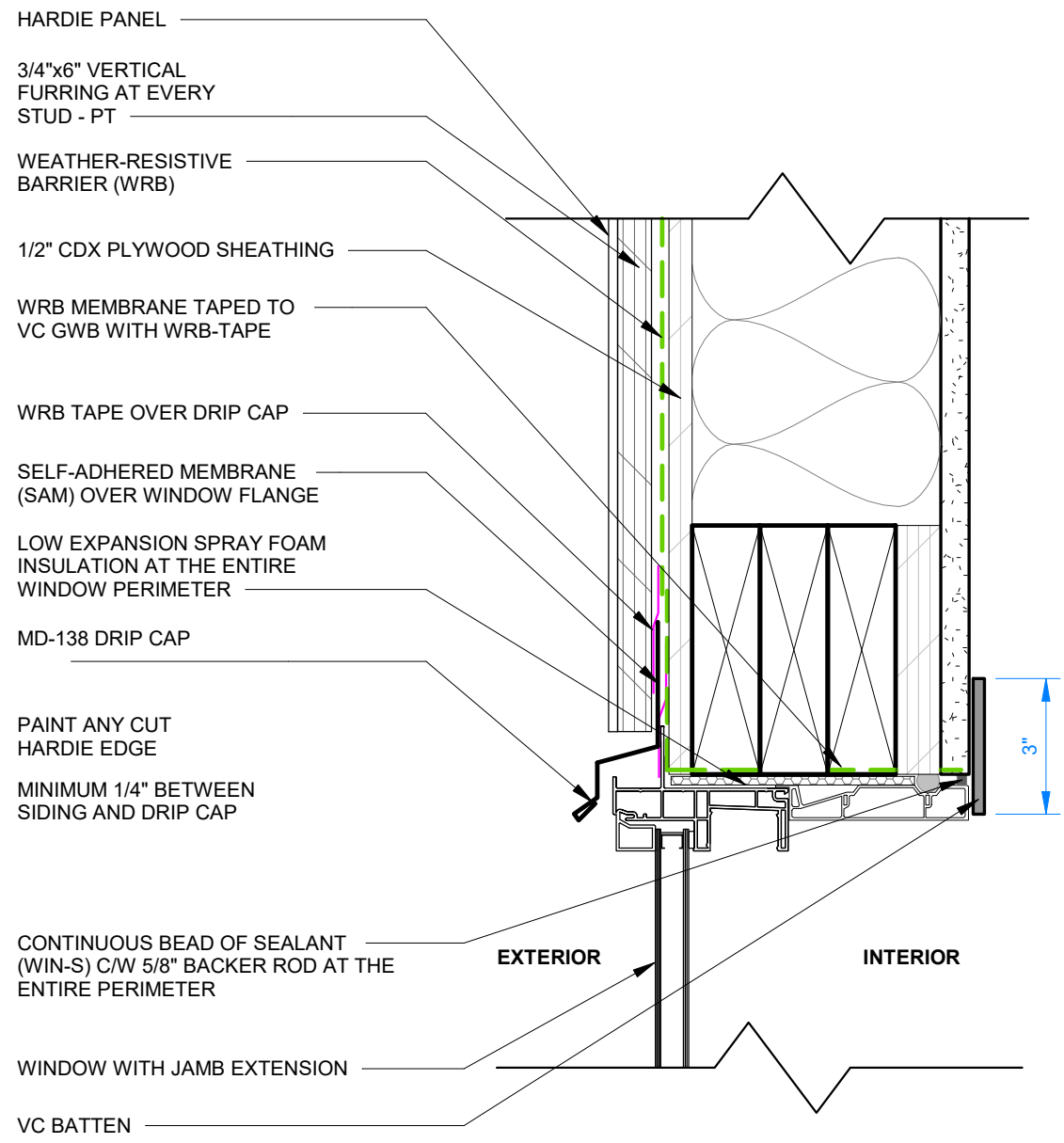
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PLOT DATE: 2024-06-07 4:11:10 PM

11x17 Titleblock R2022.1

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



By Yuri at 4:45:03 PM, 6/10/2024



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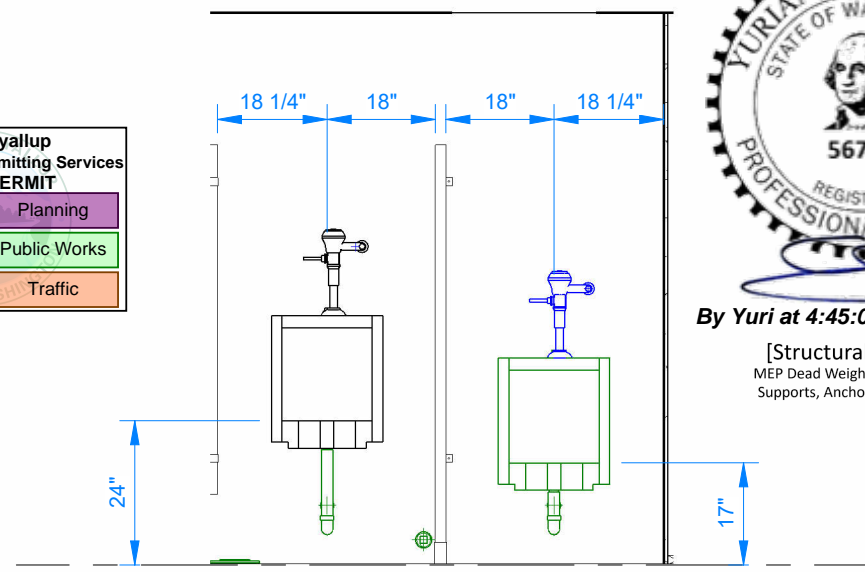
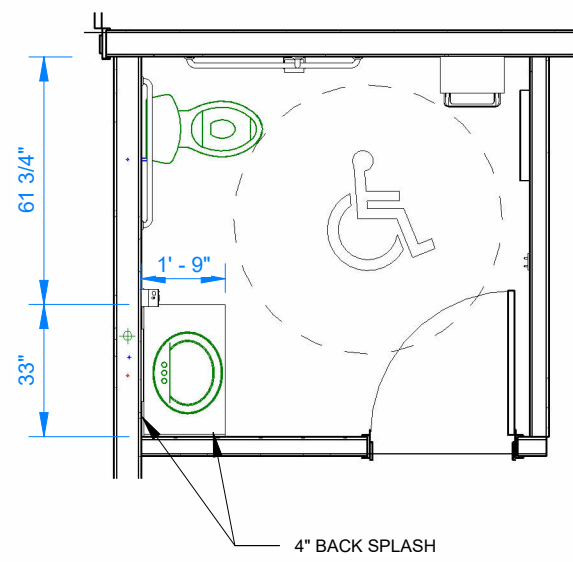
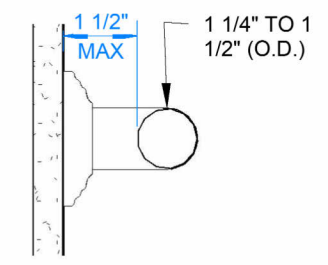
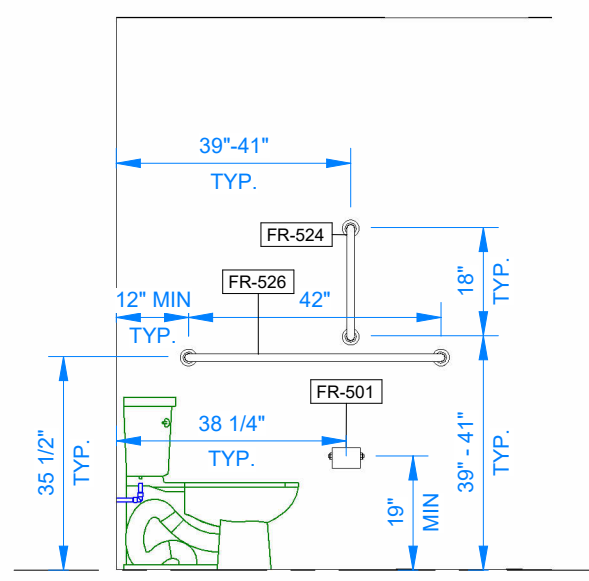
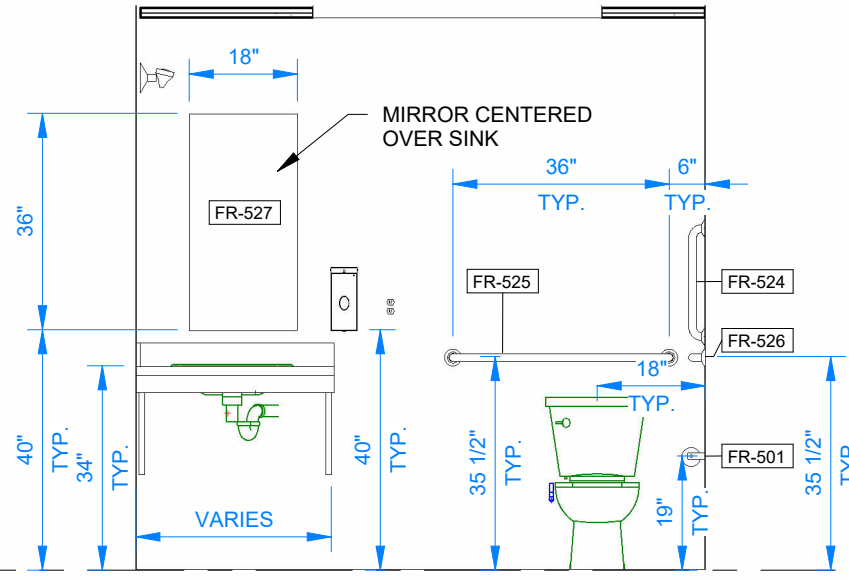
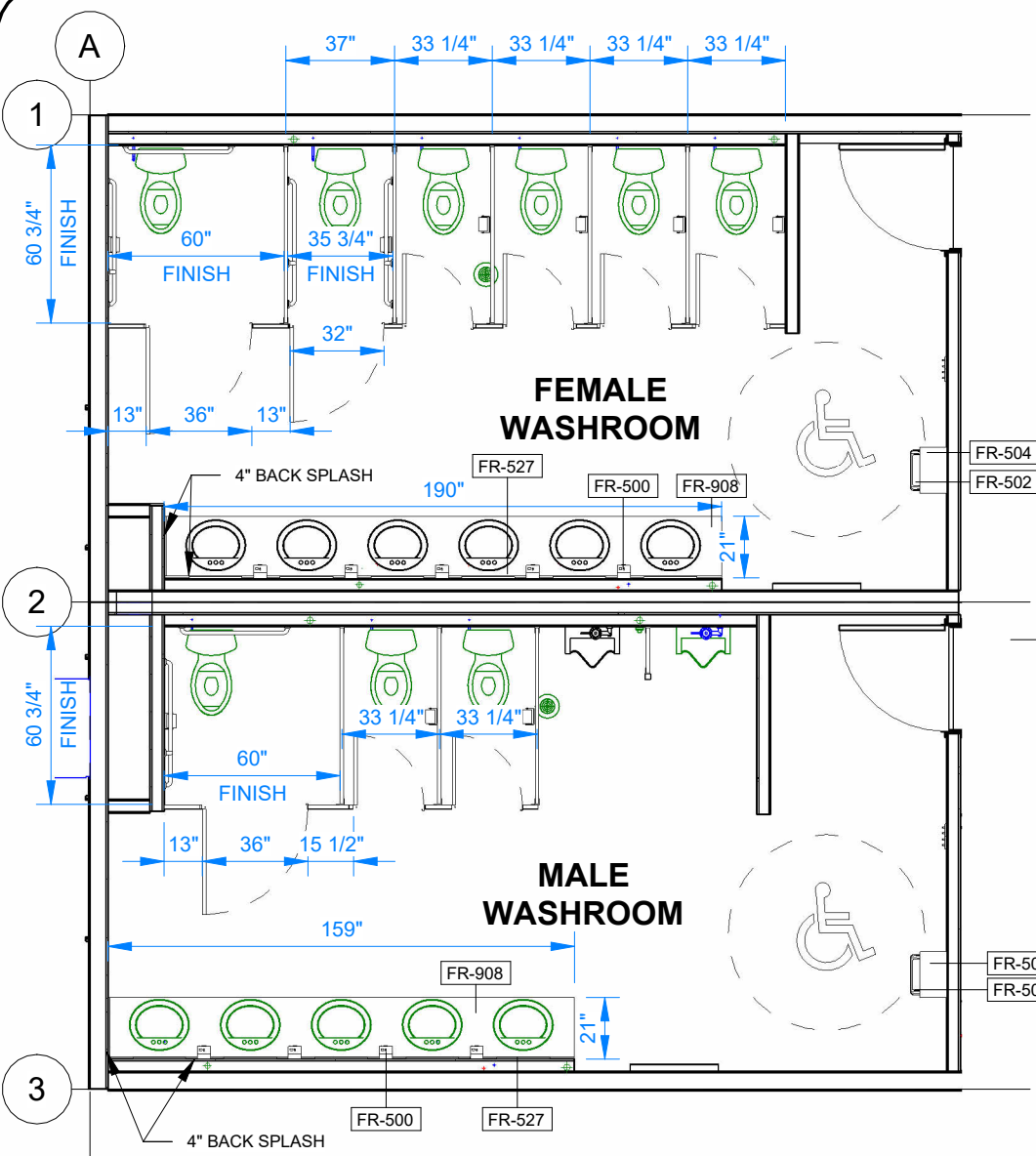
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REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	NM	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH

CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: EXTERIOR FINISH DETAILS - CLADDING	
PROJECT NO: 1107994	DRAWING NO: AM303
REV. # A	



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



By Yuri at 4:45:06 PM, 6/10/2024
[Structural Aspects Only]
MEP Dead Weights, Seismic/Wind Loads,
Supports, Anchors & Hole Penetrations.

FURNITURE AND EQUIPMENT SCHEDULE

TAG	QTY	DESCRIPTION
FR-100	4	VINYL CORDLESS MINI BLINDS 45"W X 47"H COLOR: WHITE
FR-111	1	COAT HOOK BOARD - 2 HOOKS - 57" AFF
FR-500	10	SOAP DISPENSER
FR-501	10	SINGLE ROLL TOILET PAPER HOLDER
FR-502	3	WALL MOUNTED WASTE DISPOSAL BIN - 9" FROM BOTTOM TO FINISHED FLOOR
FR-503	2	COAT HOOK BOARD - 4 HOOKS - 57" AFF
FR-504	3	WALL MOUNTED PAPER TOWEL DISPENSER - 46" FROM BOTTOM TO FINISHED FLOOR
FR-524	5	18" GRAB BAR, BARRIER FREE WASHROOM
FR-525	3	36" GRAB BAR, BARRIER FREE WASHROOM
FR-526	5	42" GRAB BAR, BARRIER FREE WASHROOM
FR-527	12	MIRROR CSB ARRIS EDGE W/ HW ZINC PLATED VANCOUVER CLIP 3MM (1/8") SIZE: 18"W x 36"H
FR-908	3	ADA LAVATORY COUNTERTOP. 4" BACKSPLASH. HQ LAMINATE COLOR WILSONART COTE D'AZURE



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REV.	DATE	ISSUED FOR STATE APPROVAL DESCRIPTION	NM BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	NM	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH
CLIENT: CASCADE CHRISTIAN SCHOOL

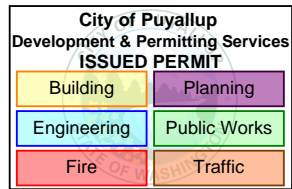
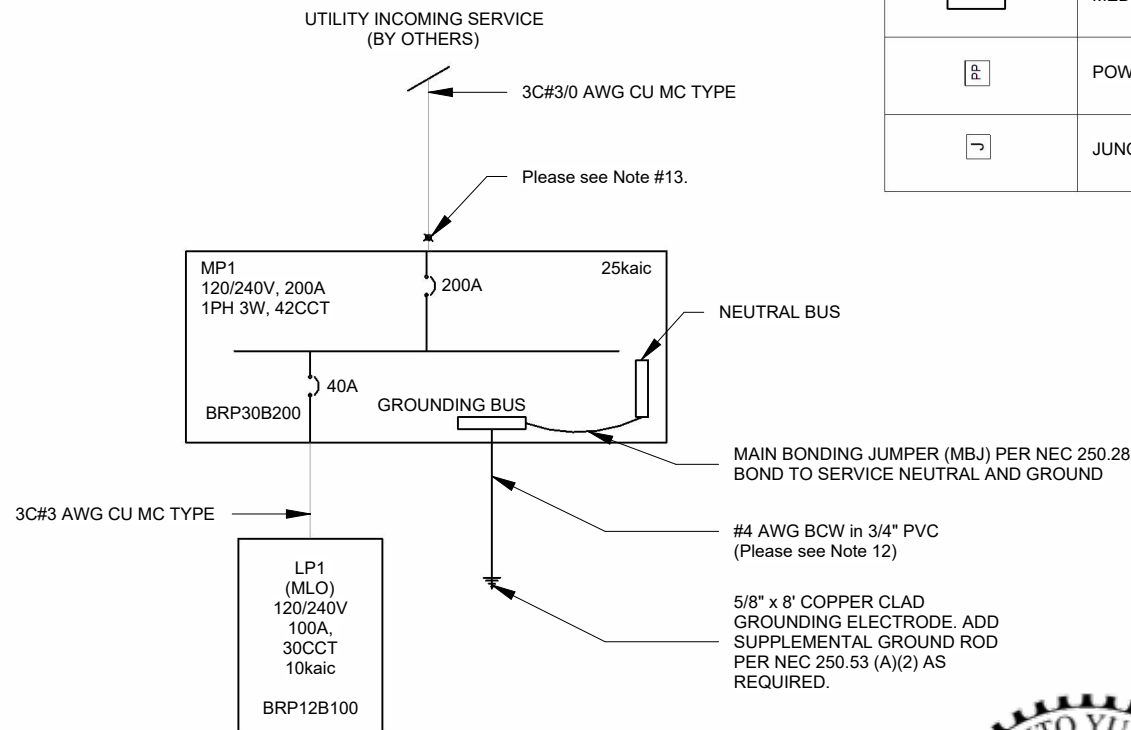
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PROJECT NO: 1107994
DRAWING NO: AM400
REV. #: A

DRAWING LIST - ELECTRICAL MANUFACTURING

SHEET NUMBER	SHEET NAME
EM001	ELECTRICAL DRAWING LIST & GENERAL INFORMATION
EM002	SYMBOL LEGENDS & GENERAL NOTES
EM101	OVERALL POWER & DATA PLAN - LEVEL 1
EM201	OVERALL LIGHTING PLAN - LEVEL 1
EM301	OVERALL FIRE ALARM PLAN - LEVEL 1
EM302	FIRE RISER DIAGRAM
EM600	PANEL SCHEDULES
EM601	BRANCH CIRCUIT WIRE SIZE_LP-1
EM602	BRANCH CIRCUIT WIRE SIZE_MP-1
EM603	LPD CALCULATIONS
EM604	LOAD CALCULATION_LP-1
EM605	LOAD CALCULATION_MP-1
Grand total: 12	

POWER & DATA SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	20A, 125V, HALF CONTROLLED PLUG LOAD DUPLEX RECEPTACLE, WHITE	18" AFF TO CENTRE OF DEVICE BOX, UNLESS OTHERWISE SPECIFIED
	RADIANT TAMPER RESISTANT 20A SELF-TEST GFCI RECEPTACLE, WITH SAFELock PROTECTION, WHITE	REFER TO DRAWING FOR DETAILS
	HARDWIRED ELECTRICAL CONNECTION TO EQUIPMENT	
	DATA OUTLET	18" AFF TO CENTRE OF DEVICE BOX, UNLESS OTHERWISE SPECIFIED
	ELECTRICAL PANELBOARD, REFER TO PANEL SCHEDULE FOR SIZING, MODEL AND BREAKER LAYOUT	66" AFF TO HIGHEST OVERCURRENT DEVICE
	MEDIA CABINET	60" AFF TO THE TOP THE CABINET
	POWER PACK FOR RECEPTACLES	CEILING MOUNTED
	JUNCTION BOX	CEILING MOUNTED

LIGHTING SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	LOW VOLTAGE LIGHT SWITCH	48" AFF TO CENTRE, UNLESS OTHERWISE SPECIFIED
	UNIVERSAL RUNNING MAN EXIT SIGN	84" AFF TO CENTRE, UNLESS OTHERWISE SPECIFIED
	EMERGENCY LIGHT BATTERY UNIT	84" AFF TO TOP, UNLESS OTHERWISE SPECIFIED
	EMERGENCY LIGHT DOUBLE REMOTE HEAD	84" AFF TO CENTRE, UNLESS OTHERWISE SPECIFIED
	EXTERIOR LIGHT FIXTURE	80" AFF TO CENTRE, UNLESS OTHERWISE SPECIFIED
	EMERGENCY LIGHT SINGLE REMOTE HEAD	84" AFF TO CENTRE, UNLESS OTHERWISE SPECIFIED
	WALL MOUNTED OCCUPANCY SENSOR	48" AFF TO CENTRE, UNLESS OTHERWISE SPECIFIED
	CEILING MOUNTED OCCUPANCY SENSOR	CEILING MOUNTED
	TROFFER FIXTURE	CEILING MOUNTED
	REMOTE CONTROL SWITCH	48" AFF TO CENTRE, UNLESS OTHERWISE SPECIFIED
	POWER PACK FOR LIGHTING	CEILING MOUNTED
	FIXTURE TYPE TAG - REFER TO LUMINAIRE SCHEDULE	N/A



POWER DISTRIBUTION SINGLE LINE DIAGRAM N.T.S



By Yuri at 4:45:09 PM, 6/10/2024

[Structural Aspects Only]
MEP Dead Weights, Seismic/Wind Loads, Supports, Anchors & Hole Penetrations.

ELECTRICAL ABBREVIATIONS	
ABBREVIATION	DESCRIPTIONS
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
DP	DISTRIBUTION PANEL
FACP	FIRE ALARM CONTROL PANEL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUG ONLY
MOCP	MAXIMUM OVERCURRENT CIRCUIT PROTECTION
MP	MAIN PANEL
SP	SUB PANEL
WP	WEATHER PROOF

FIRE ALARM SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	SMOKE DETECTOR	
	MANUAL PULL STATION	42" AFF TO CENTRE, UNLESS OTHERWISE SPECIFIED
	HORN/ STROBE	90" AFF TO CENTRE, OR MIN 6" BELOW FCL TO TOP
	STROBE	90" AFF TO CENTRE, OR MIN 6" BELOW FCL TO TOP
	HEAT DETECTOR	

CODE & DESIGN COMPLIANCE REFERENCE
1. WASHINGTON STATE BUILDING CODE 2021
2. NATIONAL ELECTRICAL CODE 2023



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REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	DB	

PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH	DRAWING TITLE:	ELECTRICAL DRAWING LIST & GENERAL INFORMATION		
CLIENT:	CASCADE CHRISTIAN SCHOOL	PROJECT NO:	1107994	DRAWING NO:	EM001
				REV. #	A

ENERGY CODE NOTES - LIGHTING

ENERGY CODE NOTES - LIGHTING

-LIGHTING CONTROL METHOD TO COMPLY TO GENERAL LIGHTING CONTROL REQUIREMENTS

(C405.2.1.-C405.2.10):

OCCUPANCY SENSORS WILL BE INSTALLED THROUGHOUT BUILDING (C405.4.2(1))
OCCUPANCY SENSORS SHALL BE CONFIGURED TO TURN OFF LIGHTS WITHIN 20MIN OF ALL
OCCUPANTS LEAVING THE SPACE;
THEY SHALL BE MANUAL ON, OR CONFIGURED TO AUTOMATICALLY TURN ON THE LIGHTING TO
NOT MORE THAN 50% POWER;
THEY NEED TO INCORPORATE A MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN LIGHTS
OFF.
MANUAL CONTROLS ARE NOT REQUIRED IN CORRIDORS, STAIRWAYS, RESTROOMS, LOCKER
ROOMS, LOBBIES OR OTHER AREAS
WHERE A MANUAL OPERATION WOULD ENDANGER SAFETY OR SECURITY.

-TIME SWITCH CONTROLS: NOT REQUIRED (C405.2.2.)

-MANUAL CONTROLS: REQUIRED (C405.2.3.) - PROVIDED WITH REMOTE CONTROL SWITCHES.

-LIGHTING REDUCTION CONTROLS (C405.2.4.) - NOT REQUIRED

-DAYLIGHT RESPONSIVE CONTROLS (C405.2.5.) - NOT PROVIDED.

-ADDITIONAL LIGHTING CONTROLS (C405.2.6): NOT PROVIDED

-AREA CONTROLS (C495.2.7): NOT REQUIRED

-ADVANCED LIGHTING CONTROLS (C405.2.8.): NOT REQUIRED

-EXTERIOR LIGHTING CONTROLS (C405.2.9): CONTROLS TO COMPLY TO C405.2.9.1 - C405.2.9.4.

DAYLIGHT SHUTOFF (C405.2.9.1.) THE EXTERIOR LIGHTING COMES WITH A BUILT-IN PHOTOMETRIC
SENSOR THAT SHUTS-OFF THE LIGHT ONCE THE SET LIGHTING LEVEL IS ACHIEVED. REQUIRED,
FIXTURES C/W DAYLIGHT SENSING PROVIDED

BUILDING FACADE, LANDSCAPE LIGHTING (C405.2.9.2.): NOT PROVIDED

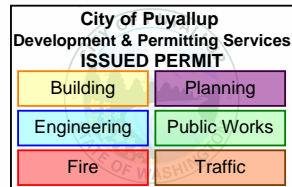
-INTERIOR LIGHTING POWER REQUIREMENTS: TOTAL CONNECTED INTERIOR LIGHTING POWER IS NO
GREATER THAN INTERIOR LIGHTING

POWER ALLOWANCE (C405.4.): SEE WSEC SPREADSHEET CALCULATION, BUILDING AREA METHOD
USED

-EXTERIOR LIGHTING POWER REQUIREMENTS (C405.5): TOTAL CONNECTED EXTERIOR LIGHTING

POWER IS NO GREATER THAN EXTERIOR

LIGHTING POWER ALLOWANCE: SEE WSEC SPREADSHEET CALCULATION, EXTERIOR LIGHTING
ZONE: 2



GENERAL ELECTRICAL NOTES:

- ALL WIRE SHALL BE MIN OF #12 AWG, UNLESS OTHERWISE SPECIFIED.
- UNLESS OTHERWISE INDICATED, ALL WIRES AND CABLES SHALL BE COPPER AND MC TYPE.
- ALL WIRING MUST CONFORM TO NFPA 70, 72 & 101.
- ALL ELECTRICAL DEVICES ARE TO BE WHITE IN COLOUR.
- ALL DIMENSIONS ARE APPROXIMATE, UNLESS OTHERWISE SPECIFIED.
- LOCATION OF ELECTRICAL DEVICES ARE APPROXIMATE, UNLESS OTHERWISE SPECIFIED.
- ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF), UNLESS OTHERWISE SPECIFIED.
- ALL WIRES AND JUNCTION BOXES SHALL BE APPROPRIATELY LABELLED.
- ALL ELECTRICAL COMPONENTS SHALL CONFORM WITH UL LISTING & FM APPROVAL.
- WHERE DEVICE RELOCATION IS REQUIRED DUE TO CONFLICTS WITH OTHER DEVICES AND/OR EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL INSTALL THE DEVICES UP TO 1M/3 FEET FROM ORIGINAL LOCATION WITHOUT APPROVAL FROM THE ENGINEER. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REDLINE DRAWINGS TO ATCO ENGINEERING UPON COMPLETION OF MANUFACTURING.
- WHERE A DEVICE IS SPECIFIED WITH AN EXACT MODEL NUMBER AND AN ALTERNATE IS PROVIDED, ENGINEERING MUST BE NOTIFIED AND THE ALTERNATE DEVICES MUST BE APPROVED PRIOR TO INSTALLATION.
- GROUNDING WIRE SIZE IS BASED ON THE 3/0 CALCULATED INCOMING FEEDER SIZE. IN CASE THERE WILL BE CHANGES, WIRE SIZE SHALL BE BASED AS PER NEC TABLE 250.66 (GROUNDING ELECTRODE CONDUCTOR FOR ALTERNATING-CURRENT SYSTEMS).
- INSTALLER SHALL:
 - VERIFY THE AVAILABLE FAULT CURRENT (AFC) AS PROVIDED BY THE UTILITY.
 - IF THE AFC EXCEEDS 25 KAIC (RATING OF DESIGNATED PANEL), CONSULT WITH ENGINEER BEFORE CONTINUING WITH INSTALLATION.
 - FURNISH AND INSTALL FIELD MARKING PER NEC 110.24(A)

LIGHTING NOTES:

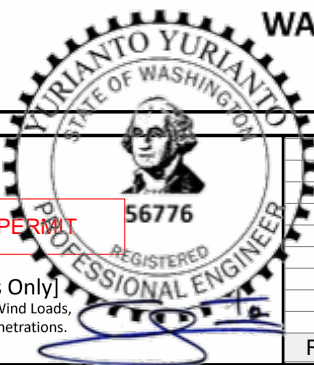
- REFER TO LUMINAIRE SCHEDULE FOR LIGHT FIXTURE TYPES.
- ALL WIRE SHALL BE #12 AWG FOR EMERGENCY LIGHTING CIRCUITS.
- DISCONNECT LEADS OF THE EMERGENCY BATTERY PACKS FROM BATTERY TERMINALS PRIOR TO SHIPPING. ONCE ON SITE, RECONNECT LEADS, CHARGE FOR TWENTY-FOUR (24) HOURS THEN TEST ALL EMERGENCY/EXIT LIGHT BATTERIES FOR 30 MINUTES.
- SEND ALL SITE TESTING DOCUMENTATION TO ATCO ENGINEERING PRIOR TO PROJECT COMPLETION (IF APPLICABLE)

POWER NOTES:

- TELEPHONE/DATA OUTLETS SHALL HAVE 3/4" EMT CONDUIT STUBBED UP TO CEILING SPACE COMPLETE WITH PLASTIC BUSHING. PULL STRING SHALL BE SUPPLIED FOR EACH OUTLET.
- ALL THERMOSTAT WIRE SHALL BE 7C#18 LOW VOLTAGE WIRE.
- ALL ELECTRIC RESISTANCE SPACE HEATERS SHALL BE CONTROLLED BY INDEPENDENT THERMOSTATS LOCATED IN THE SPACE AS PER NEC 2023.
- HEAT TRACE JUNCTION BOXES TO BE TEMPORARILY MOUNTED IN FLOOR CAVITY DURING TRANSPORT AND RELOCATED TO THE UNDERSIDE OF THE UNIT ON SITE.
- REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL MECHANICAL EQUIPMENT PRIOR TO INSTALLATION.
- ALL RECEPTACLE COVER PLATES SHALL BE LABELED WITH SILVER LABELS C/W BLACK LETTERING AND SHALL IDENTIFY THE PANEL NAME AND CIRCUIT BREAKER NUMBER.
- PROVIDE LABELS FOR SPECIAL PURPOSE SWITCHES, RECEPTACLES AND ELECTRICAL DEVICES.
- ALL ELECTRICAL MATERIAL AND INSTALLATIONS SHOWN AND/OFF SPECIFIED SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND SHALL COMPLY IN STRICT ACCORDANCE WITH THE LATEST EDITION OF CSA STANDARDS AND THE NEC 2023.
- SEND ALL SITE TESTING DOCUMENTATION TO ATCO ENGINEERING PRIOR TO PROJECT COMPLETION.

PANELBOARD NOTES:

- PANELBOARDS SHALL BE COMPLETE WITH LOCKABLE PANEL DOORS, PANEL SCHEDULES, ARC FLASH STICKERS AND LAMACOIDS STATING THE PANEL NAME, AMPERAGE, VOLTAGE, PHASE AND WIRE COUNT.
- MAIN SERVICE CONNECTION TO MAIN PANELBOARD TO BE COMPLETED ON SITE (BY OTHERS).
- ALL PANELBOARDS SHALL BE EATON CUTLER HAMMER AND SHALL UTILIZE 'BR' PLUG-IN LOADCENTRE BREAKERS OR EQUIVALENT FULL SIZE BREAKERS.



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PRPF20241230



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REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	DB	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH		DRAWING TITLE: SYMBOL LEGENDS & GENERAL NOTES		
CLIENT: CASCADE CHRISTIAN SCHOOL	PROJECT NO: 1107994	DRAWING NO: EM002	REV. # A	

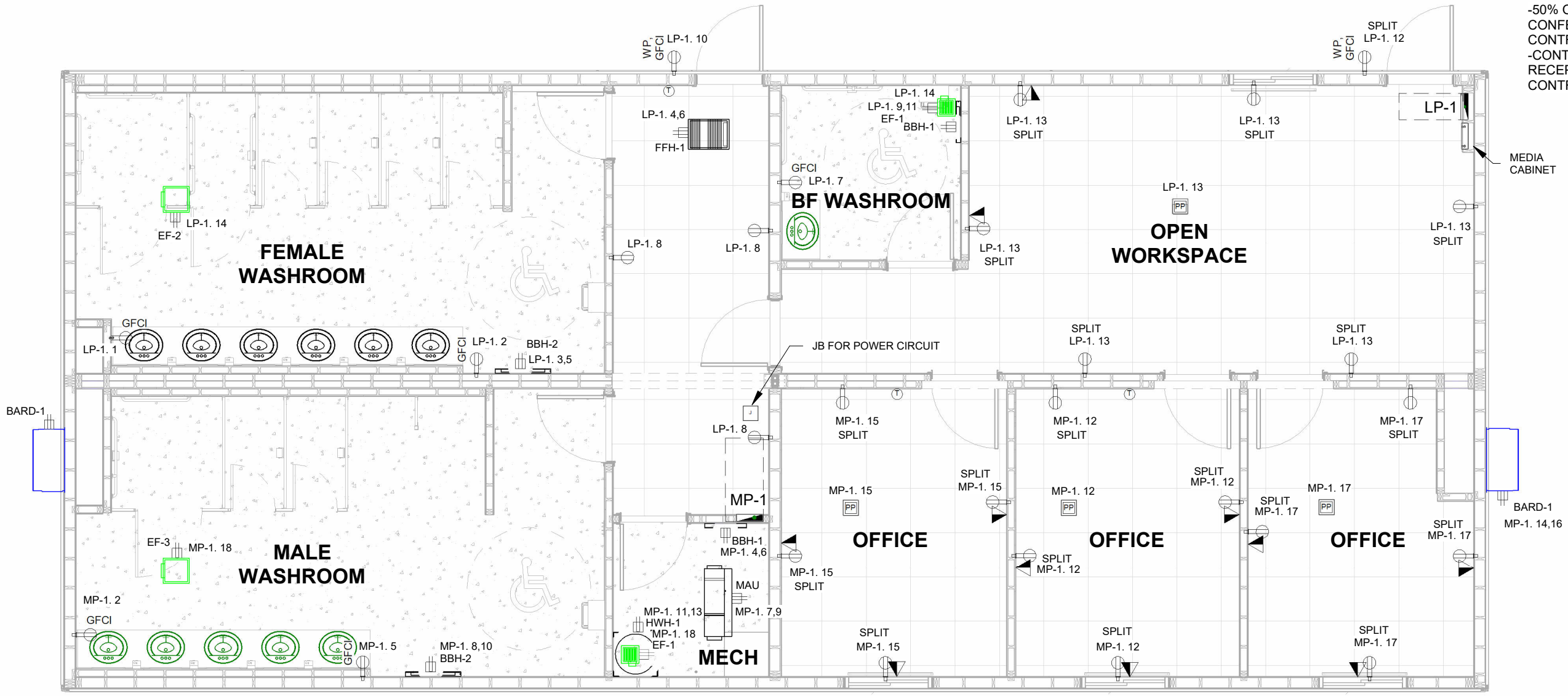
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ENERGY CODE NOTES - POWER

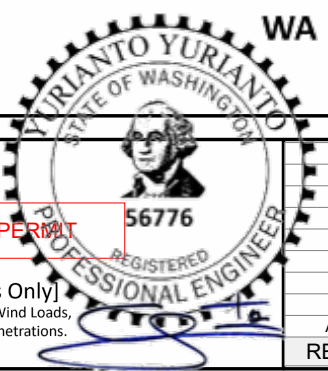
-50% OF RECEPTACLES IN ENCLOSED OFFICES, CONFERENCE ROOMS, BREAK ROOMS TO HAVE CONTROLLED RECEPTACLES, -CONTROLLED RECEPTACLES ARE SPLIT RECEPTACLES CONNECTED TO POWER PACK, AND CONTROLLED BY OCCUPANCY SENSOR (C405.10.1.)



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

1 FFL 1 - E - POWER & SYSTEMS
3/16" = 1'-0"



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PRPF20241230



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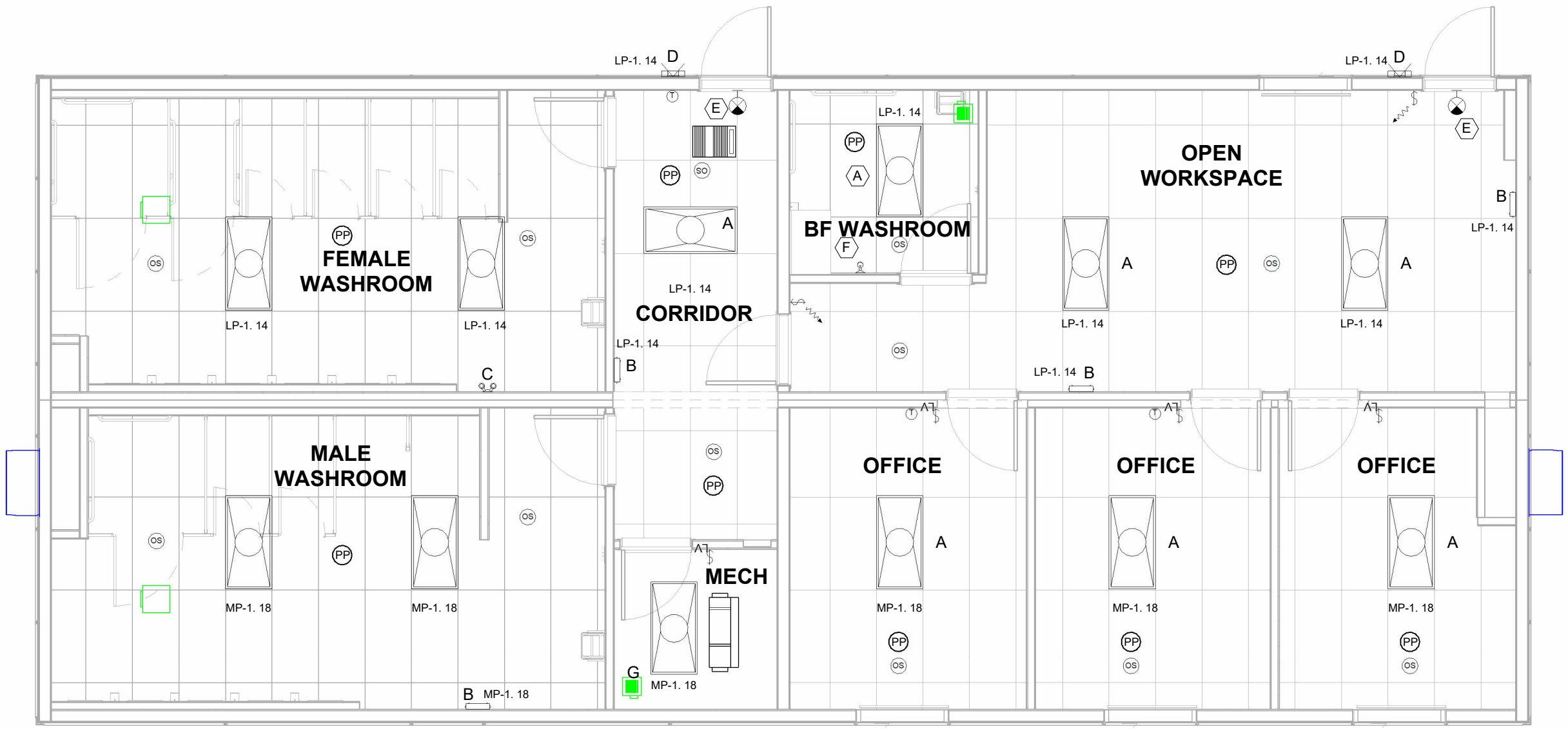
PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH
CLIENT:	CASCADE CHRISTIAN SCHOOL

DRAWING TITLE:	OVERALL POWER & DATA PLAN - LEVEL 1		
PROJECT NO:	1107994	DRAWING NO:	EM101
REV. #	A		

By Yuri at 4:45:15 PM, 6/10/2024

PLOT DATE: 2024-06-07 2:52:03 PM

11x17 Titleblock R2024.1



1 FFL 1 - E - LIGHTING
3/16" = 1'-0"

LUMINAIRE SCHEDULE							
TAG	COUNT	MANUFACTURER	MODEL	DESCRIPTION	LAMP COLOUR	WATTAGE	VOLTAGE
A	11	COOPER LIGHTING	24FP4740C	2X4 LED TROFFER FIXTURE	4000 K	40 W	
B	4	HUBBELL	PE2EU	EMERGENCY BATTERY PACK			
C	1	HUBBELL	PERHC	EMERGENCY REMOTE HEAD, DOUBLE			
D	2	AIMLITE	W31-L GEN 2	LED WALL LIGHT EXTERIOR WITH PHOTOCELL, NO5000 K JB NEEDED		14 W	
E	2	HUBBELL	CCRRC	WALL/ CEILING MOUNT EXIT SIGN			
F	1	HUBBELL	PERHC	EMERGENCY REMOTE HEAD, SINGLE			
G	1	COOPER LIGHTING	24FP4740C	2X4 LED TROFFER FIXTURE	4000 K	40 W	



By Yuri at 4:45:16 PM, 6/10/2024
[Structural Aspects Only]
MEP Dead Weights, Seismic/Wind Loads, Supports, Anchors & Hole Penetrations.

City of Puyallup
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Building	Planning
Engineering	Public Works
Fire	Traffic

KEY PLAN

101
102



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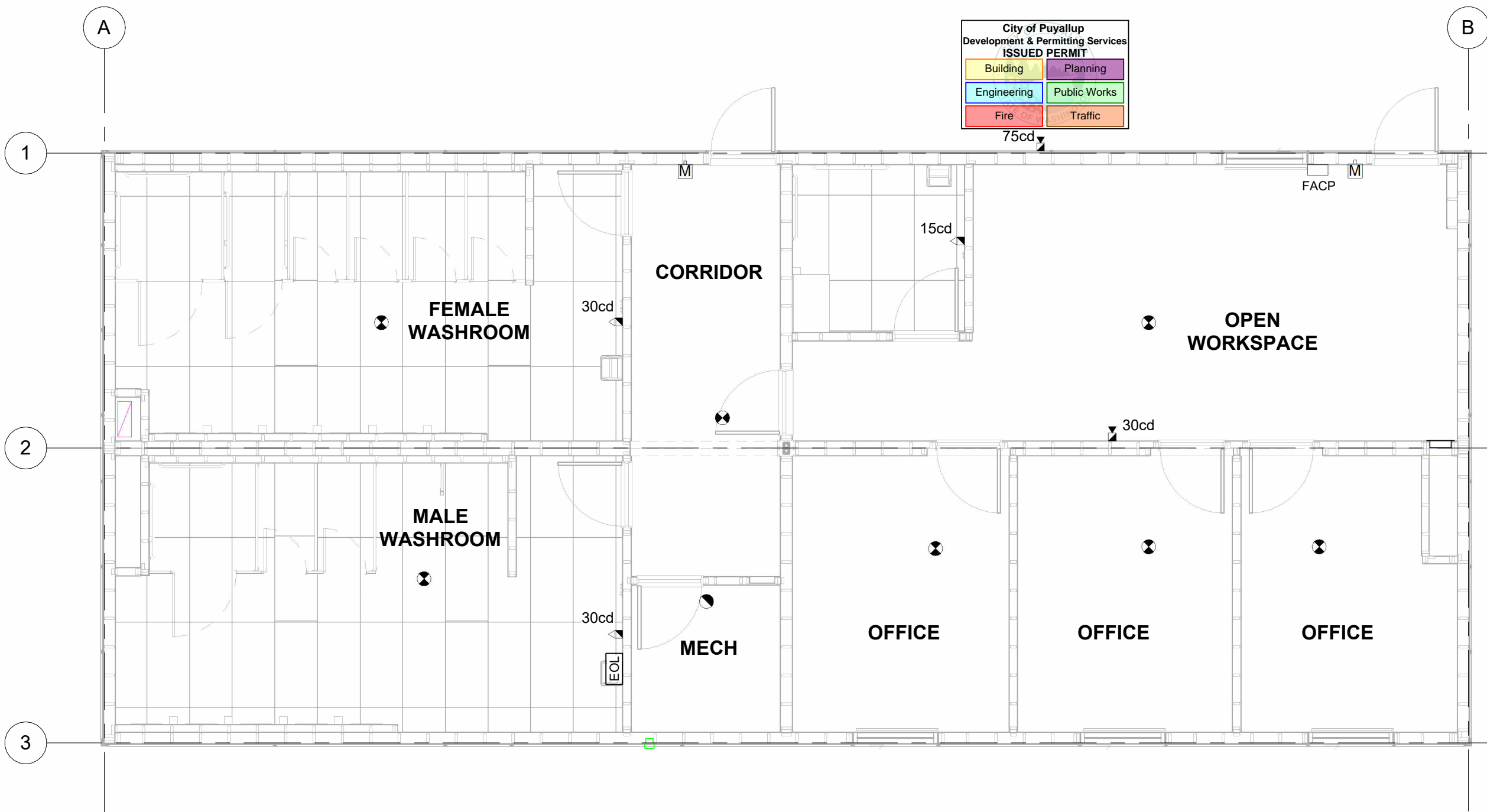
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A	2024-06-07	ISSUED FOR STATE APPROVAL	DB
REV.	DATE	DESCRIPTION	BY

PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH	DRAWING TITLE:	OVERALL LIGHTING PLAN - LEVEL 1
CLIENT:	CASCADE CHRISTIAN SCHOOL	PROJECT NO:	1107994
		DRAWING NO:	EM201
		REV. #	A

PLOT DATE: 2024-06-07 2:52:04 PM

11x17 Titleblock R2024.1



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

① FFL 1 - E - FIRE ALARM
3/16" = 1'-0"

KEY PLAN

101
102



FOR PERMIT

PRPF20241230



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Structural Aspects Only
Dead Weights, Seismic/Wind Loads
Supports, Anchors & Hole Penetrations.

REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	DB	

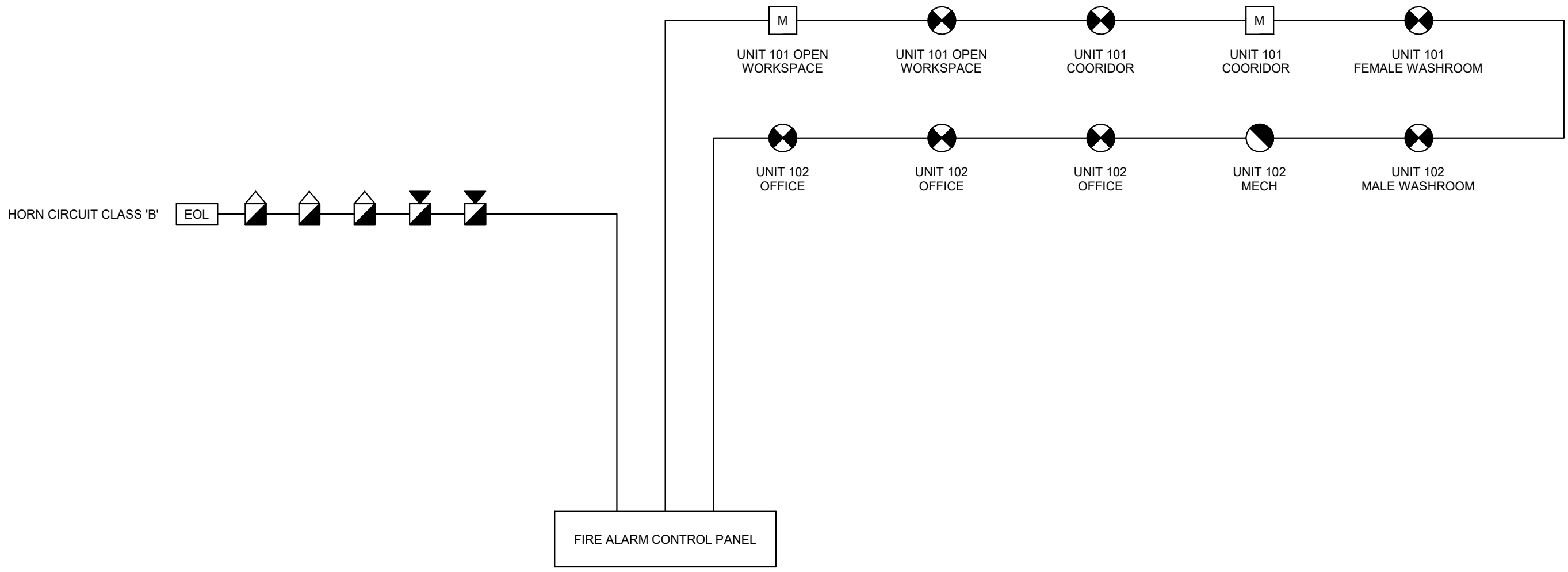
PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH
CLIENT:	CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: OVERALL FIRE ALARM PLAN - LEVEL 1	
PROJECT NO: 1107994	DRAWING NO: EM301
REV. # A	

By Yuri at 4:45:30 PM, 6/10/2024

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



EXISTING SITE FIRE ALARM CONTROL PANEL

1 FIRE ALARM RISER DIAGRAM
3" = 1'-0"



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REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-05-29	ISSUED FOR STATE APPROVAL	RB	

PROJECT:
28x64 ASL USA SR FLEET
OFFICE WASH

CLIENT:
CASCADE CHRISTIAN SCHOOL

DRAWING TITLE:
FIRE RISER DIAGRAM

PROJECT NO:
1107994

DRAWING NO:
EM302

REV. #
A

Panel MP-1

Location: UNIT-102
Supply From: Flush
Enclosure: NEMA 1 Indoor
Volts: 120/240 Single
Phases: 1
Wires: 3
Cable Size: 3C# 3/0 AWG AC90
Stub Requirements: 2" STUBDOWN
Panel Model #: BRP30B200
Bus Rating: 200 A
MCB Rating: 200 A
MLO Rating: N/A
Est. Demand Load: 35 kW
Short Circuit Rating: 25 kaic

#	Circuit Description	Trip	Ø	A(VA)		B(VA)		Ø	Trip	Circuit Description	#		
1	BARD-1	70 A	2	4000	180			1	20 A	Male Washroom Sink Receptacle	2		
3						4000	150			2	20 A	BBH-1	4
5				20 A	1	180	150					Male Washroom Sink Receptacle	6
7	MAU	40 A	2			3000	250			2	20 A	BBH-2	8
9						3000	250					2	20 A
11	HWH-1	20 A	2			1500	720			1	20 A	Office Receptacles	12
13						1500	4000					2	70 A
15	Office Receptacles	20 A	1				720	4000				16	
17	Office Receptacles	20 A	1	720	384					1	20 A	Unit-101 Lighting	18
19	Lp-1	100 A	2				3520					20	
21						2300							
23												24	
25												26	
27												28	
29												30	
31												32	
33												34	
35												36	
37												38	
39												40	
41												42	
				A	B								
Total Load				16655 VA	17859 VA								
Total Amp				138.8 A	148.8 A								

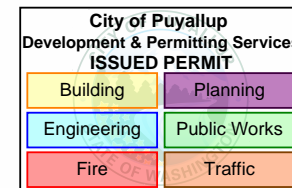
Notes:

Panel LP-1

Location: OPEN WORKSPACE...
Supply From: MP-1
Enclosure: NEMA 1 Indoor
Volts: 120/240 Single
Phases: 1
Wires: 3
Cable Size: 3C# 3AWG AC90
Stub... 1 1/4" STUBDOWN
Panel Model #: BRP12B100
Frame Rating: 100 A
MCB Rating: N/A
MLO Rating: 30A in MP-1
Est. Demand Load: 6 kW
Short Circuit Rating: 10 kaic

#	Circuit Description	Trip	Ø	A(VA)		B(VA)		Ø	Trip	Circuit Description	#		
1	Female Washroom Sink Receptacle	20 A	1	180	180			1	20 A	Female Washroom Sink Receptacle	2		
3	BBH-2	20 A	2			250	1000			2	20 A	FFH-1	4
5						250	1000					2	20 A
7	BF WASHROOM SINK RECEPTACLES	20 A	1			180	540			1	20 A	Entrance Receptacles	8
9	BBH-1	20 A	2	150	180					1	20 A	Exterior GFCI	10
11								150	180			1	20 A
13	Open Workspace Receptacles	20 A	1	1080	506					1	20 A	Unit-102 Lighting	14
15												16	
17												18	
19												20	
21												22	
23												24	
25												26	
27												28	
29												30	
				A	B								
Total Load				3520 VA	2300 VA								
Total Amp				29.3 A	19.2 A								

Notes:



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A	2024-06-07	ISSUED FOR STATE APPROVAL	DB	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH		DRAWING TITLE: PANEL SCHEDULES		
CLIENT: CASCADE CHRISTIAN SCHOOL		PROJECT NO: 1107994	DRAWING NO: EM600	REV. # A

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Panel LP-1(SIZE OF BRANCH CIRCUIT CONDUCTOR)

#	Circuit Description	WIRE SIZE/TYPE	Trip	Ø	A		B		Ø	Trip	WIRE SIZE/TYPE	Circuit Description	#
					VA	VA	VA	VA					
1	Female Washroom Sink Receptacle	2C# 12 AWG/ MC	20 A	1	180	180			1	20 A	2C# 12 AWG/ MC	Female Washroom Sink Receptacle	2
3	BBH-2	3C# 12 AWG/ MC	20 A	2			250	100	2	20 A	3C# 12 AWG/ MC	FFH-1	4
5					250	100	0	0					
7	BF WASHROOM SINK RECEPTACLES	2C# 12 AWG/ MC	20 A	1			180	540	1	20 A	2C# 12 AWG/ MC	Entrance Receptacles	8
9	BBH-1	3C# 12 AWG/ MC	20 A	2	150	180			1	20 A	2C# 12 AWG/ MC	Exterior GFCI	10
11							150	180			1	20 A	2C# 12 AWG/ MC
13	Open Workspace Receptacles	2C# 12 AWG/ MC	20 A	1	1080	506			1	20 A	2C# 12 AWG/ MC	Unit-102 Lighting	14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
Total Load						3520	VA	2300	VA				
Total Amp						29.3	A	19.2	A				

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REV.	DATE	DESCRIPTION	BY	CHK/APR					

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH		DRAWING TITLE: BRANCH CIRCUIT WIRE SIZE_LP-1		
CLIENT: CASCADE CHRISTIAN SCHOOL		PROJECT NO: 1107994	DRAWING NO: EM601	REV. # A

Panel MP-1(SIZE OF BRANCH CIRCUIT CONDUCTOR)

#	Circuit Description	WIRE SIZE/TYPE	Trip	Ø	A		B		Ø	Trip	WIRE SIZE/TYPE	Circuit Description	#		
1	BARD-1	3C# 4 AWG/ MC	70 A	2	4000	180 VA			1	20 A	2C# 12 AWG/ MC	Male Washroom Sink Receptacle	2		
3							4000 VA	150 VA							
5					Male Washroom Sink Receptacle	2C# 12 AWG/ MC	20 A	1						180	150 VA
7	MAU	3C# 8 AWG/ MC	40 A	2			3000 VA	250 VA	2	20 A	3C# 12 AWG/ MC	BBH-2	8		
9					3000	250 VA									
11	HWH-1	3C# 12 AWG/ MC	20 A	2			1500 VA	720 VA	1	20 A	2C# 12 AWG/ MC	Office Receptacles	12		
13					1500	4000 VA									
15					Office Receptacles	2C# 12 AWG/ MC	20 A	1							
17	Office Receptacles	2C# 12 AWG/ MC	20 A	1	720	384 VA			1	20 A	2C# 12 AWG/ MC	Unit-101 Lighting	18		
19	Lp-1	3C# 3 AWG/ MC	100 A	2			3520 VA						20		
21					2300										
23													24		
25													26		
27													28		
29													30		
31													32		
33													34		
35													36		
37													38		
39													40		
41													42		
					A		B								
Total Load					16655 VA		17859 VA								
Total Amp					138.8 A		148.8 A								

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A	2024-06-07	ISSUED FOR STATE APPROVAL	DB	CHK/APR					
REV.	DATE	DESCRIPTION	BY	CHK/APR					

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH

CLIENT: CASCADE CHRISTIAN SCHOOL

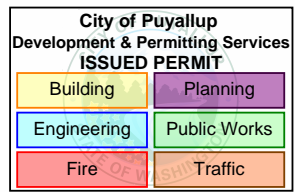
DRAWING TITLE: BRANCH CIRCUIT WIRE SIZE_MP-1

PROJECT NO: 1107994	DRAWING NO: EM602	REV. # A
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PLOT DATE: 2024-06-07 2:54:40 PM

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Lighting Power Density					
SL NO.	ROOM NAME	AREA(ft2)	Lighting Fixture	Wattage	LPD(watt/ft2)
1	MALE WASHROOM	291	COOPER LIGHTING 24FP4740C	82.8	0.28
2	FEMALE WASHROOM	288	COOPER LIGHTING 24FP4740C	82.8	0.29
3	BF WASHROOM	64	COOPER LIGHTING 24FP4740C	41.4	0.65
4	OPEN WORKSPACE	333	COOPER LIGHTING 24FP4740C	82.8	0.25
5	OFFICE	132	COOPER LIGHTING 24FP4740C	41.4	0.31
6	OFFICE	132	COOPER LIGHTING 24FP4740C	41.4	0.31
7	OFFICE	132	COOPER LIGHTING 24FP4740C	41.4	0.31
8	CORRIDOR	91	COOPER LIGHTING 24FP4740C	41.4	0.45
9	MECH. ROOM	48.4	COOPER LIGHTING 24FP4740C	41.4	0.86



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REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	DB	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH		DRAWING TITLE: LPD CALCULATIONS		
CLIENT: CASCADE CHRISTIAN SCHOOL	PROJECT NO: 1107994	DRAWING NO: EM603	REV. # A	

PLOT DATE: 2024-06-07 2:54:49 PM

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Building	Planning
Engineering	Public Works
Fire	Traffic

28X64 OFFICE WASH - CASCADE (LP-1_UNIT-101)

VOLTAGE SYSTEM 120/240, 1 PHASE, 60Hz

1. GENERAL LIGHTING LOAD	896	ft ²	x	3	va/ft ²	=		2688 va
					Sub-total	=		2688 va
2. Application of demand factor								
First 10000VA @ 100%	100 %		x	0		=		0 va
RECEPTACLES	14		x	180		=		2520 va
					Sub-total	=		5208 va
	Qty.	Unit Load	Connected Load	Demand Factor	Demanded Load	=		
3. FFH-1	1	2000	2000 va	100%	2000.00	=		2000.00 va
3. BBH-1	1	300	300 va	100%	300.00	=		300.00 va
3. BBH-2	1	500	500 va	100%	500.00	=		500.00 va
3. EXHAUST FAN	1	16	16 va	100%	16.00	=		16.00 va
3. EXHAUST FAN	1	84	84 va	100%	84.00	=		84.00 va
TOTAL DEMANDED LOAD	=					=		8108 va
Calculations: 8108/240V	=		34	AMPERES				
Overcurrent Device:	100AT, 2P, 240V, 60Hz							
Feeder Size:	3C#3 AWG Copper THW Type + 1C #4 AWG BCW							
Conduit Size:	2" Diameter EMT							



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A	2024-06-07	ISSUED FOR STATE APPROVAL	DB	CHK/APR			
REV.	DATE	DESCRIPTION	BY	CHK/APR			

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH

CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: LOAD CALCULATION_LP-1

PROJECT NO: 1107994	DRAWING NO: EM604	REV. # A
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28X64 OFFICE WASH - CASCADE (MP-1_UNIT-102)

VOLTAGE SYSTEM 120/240, 1 PHASE, 60Hz

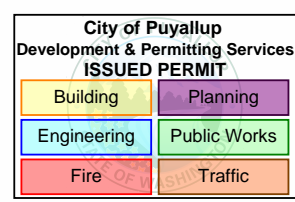
1. GENERAL LIGHTING LOAD	896	ft ²	x	3	va/ft ²	=	2688 va
					Sub-total	=	2688 va
2. Application of demand factor							
First 10000VA @ 100%	100 %		x	0		=	0 va
RECEPTACLES	14		x	180		=	2520 va
					Sub-total	=	5208 va

	Qty.	Unit Load	Connected Load	Demand Factor	Demanded Load		
3. BBH-1	1	300	300 va	100%	300.00	=	300.00 va
4. BBH-2	1	500	500 va	100%	500.00	=	500.00 va
5. BARD UNIT	2	8000	16000 va	100%	16000.00	=	16,000.00 va
6. EXHAUST FAN	1	16	16 va	100%	16.00	=	16.00 va
7. EXHAUST FAN	1	72	72 va	100%	72.00	=	72.00 va
8. WATER HEATER	1	3000	3000 va	100%	3000.00	=	3,000.00 va
8. MAU	1	6000	6000 va	100%	6000.00	=	6,000.00 va
9. LP-1	1	8108	8108 va	100%	8108.00	=	8,108.00 va

TOTAL DEMANDED LOAD = **39204 va**

Calculations: 39204/240V = **163** **AMPERES**

Overcurrent Device: 200AT, 2P, 240V, 60Hz
Feeder Size: 3C#3/0 AWG Copper THW Type + 1C #4 AWG BCW
Conduit Size: 2" Diameter EMT



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A	2024-06-07	ISSUED FOR STATE APPROVAL	DB	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH		DRAWING TITLE: LOAD CALCULATION_MP-1		
CLIENT: CASCADE CHRISTIAN SCHOOL		PROJECT NO: 1107994	DRAWING NO: EM605	REV. # A

PLOT DATE: 2024-06-07 3:29:20 PM

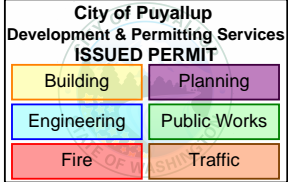
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DRAWING LIST - MECHANICAL MANUFACTURING	
SHEET NUMBER	SHEET NAME
MM001	MECHANICAL DRAWING LIST & GENERAL INFORMATION
MM002	MECHANICAL SCHEDULES
MM003	MECHANICAL SCHEDULES 2
MM101	OVERALL HVAC PLAN - LEVEL 1
MM301	OVERALL PLUMBING PLAN - LEVEL 1
MM310	PLUMBING DETAILS
Grand total: 6	

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	T-BAR CEILING DIFFUSER, NECK SIZE AS SHOWN.
	LAY-IN EGGCRATE RETURN AIR GRILLE.
	FLEXIBLE DUCT, SIZE TO MATCH DIFFUSER NECK SIZE.
	DUCT TAKE-OFF C/W BALANCING DAMPER. DUCT SIZE TO MATCH DIFFUSER NECK SIZE.
	SUPPLY/RETURN AIR GALV. DUCTWORK
	DUCT WITH EXTERNAL INSULATION
	DUCT WITH INTERNAL INSULATION / LINING
	WALL MOUNTED THERMOSTAT
	FIRE DAMPER
	DUCT REDUCERS, SIZES AS SHOWN.
	FIRE EXTINGUISHER

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
	DRAINAGE PIPING
	VENT PIPING
	COLD WATER PIPING
	HOT WATER PIPING

MECHANICAL ABBREVIATIONS	
ABBREVIATION	DEFINITION
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
CWSR	CLOTHES WASHER
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRC
DW	DISH WASHER
E/A	EXHAUST AIR
FD	FIRE DAMPER
FIM	FREE ISSUED MATERIAL
NFHB	NON-FREEZE HOSE BIBB
PL	REFRIGERANT PIPING LIQUID
PSPI	PLANT SUPPLIED PLANT INSTALLED
PSSI	PLANT SUPPLIED SITE INSTALLED
R/A	RETURN AIR
RS	REFRIGERANT PIPING SUCTION
S/A	SUPPLY AIR
SAN	SANITARY PIPING
SD	SMOKE DAMPER
SSSI	SITE SUPPLIED SITE INSTALLED
T/A	TRANSFER AIR
VENT	VENTING PIPING



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REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	RB	

PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH	DRAWING TITLE:	MECHANICAL DRAWING LIST & GENERAL INFORMATION		
CLIENT:	CASCADE CHRISTIAN SCHOOL	PROJECT NO:	1107994	DRAWING NO:	MM001
				REV. #	A

BARD UNIT SCHEDULE

TAG	QTY.	DESCRIPTION	MANUFACTURER	MODEL	SOURCE	HEATING INPUT/OUTPUT (BTUH)	COOLING CAPACITY (TON)	SUPPLY AIR FLOW (CFM)	E.S.P. ("W.C.)	OUTSIDE AIR (CFM)	ELECTRICAL				REMARKS
											FAN POWER (HP)	VOLTAGE (V)	PHASE	FREQUENCY (HZ)	
BARD-1	2	WALL MOUNTED HEAT PUMP 2 TON COOLING WITH 8KW HEATING	BARD	W24HY-A08XP4XXX	ELECTRIC	27303	2	800	0.5	150	0.3	230	1	60	T6 PRO 2 STAGE THERMOSTAT, 11.3 EER, 3.3 COP, ECM MOTOR, NIGHT SETBACK TEMP 55°F, HEAT RECOVERY WHEEL

BASEBOARD HEATER SCHEDULE

TAG	QTY	DESCRIPTION	MANUFACTURER	MODEL	HEATING CAPACITY (W)	ELECTRICAL		REMARKS
						VOLTAGE (V)	PHASE	
BBH-1	2	ELECTRIC BASEBOARD HEATER	OUELLET	OFM0300	225	240/208	1	C/W INTEGRAL THERMOSTAT
BBH-2	2	ELECTRIC BASEBOARD HEATER	OUELLET	OFM0500	375	240/208	1	C/W INTEGRAL THERMOSTAT

DIFFUSER AND GRILLE SCHEDULE

TAG	QTY	DESCRIPTION	MANUFACTURER	MODEL	SIZE (INCH)	FINISH
R-1	2	TRANSFER AIR GRILLE	DAYUS	DARH	12"x24"	WHITE
S-1	17	SUPPLY AIR SQUARE CEILING DIFFUSER, FIXED PATTERN, STEEL	NAILOR	RNS3	8"ø	WHITE
S-2	1	TRANSFER AIR GRILLE	DAYUS	DARH	8"x8"	WHITE

DUCT ACCESSORY SCHEDULE

TAG	QTY.	MANUFACTURER	SIZE	DESCRIPTION	REMARKS
HOOD-1	2	BUDRICH	4"ø	DUCT - EXHAUST WALL CAP	BACKDRAFT DAMPER AND BIRDSCREEN
HOOD-2	2	BUDRICH	8"ø	DUCT - EXHAUST WALL CAP	BACKDRAFT DAMPER AND BIRDSCREEN
HOOD-3	1	BUDRICH	8"ø	DUCT - INTAKE WALL CAP	WITH BIRDSCREEN

ELECTRIC FORCE FLOW SCHEDULE

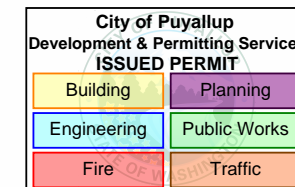
TAG	QTY.	DESCRIPTION	MANUFACTURER	MODEL	HEATING CAPACITY (kW)	ELECTRICAL		REMARKS
						VOLTAGE (V)	PHASE	
FFH-1	1	CEILING SURFACE MOUNTED ELECTRIC FORCE FLOW HEATER	OUELLET	OACP2000	2000/1500	240/208	1	TBAR MOUNTING KIT, OTH3000 REMOTE THERMOSTAT

EXHAUST FAN SCHEDULE

TAG	QTY	DESCRIPTION	MANUFACTURER	MODEL	E.S.P. ("W.C.)	AIR FLOW (CFM)	SONES	OPERATION	ELECTRICAL				REMARKS
									AMPERAGE (A)	VOLTAGE (V)	PHASE	FREQUENCY (HZ)	
EF-1	1	CEILING MOUNTED EXHAUST FAN	BROAN	L300E	0.31	300	3.4		2.6	120	1	60	
EF-2	1	CEILING MOUNTED EXHAUST FAN	BROAN	L250E	0.25	250	2.9	CONTINUOUS	2.1	120	1	60	
EF-3	1	CEILING MOUNTED EXHAUST FAN	ORTECH	ODM-5004	0.1	50	0.4		0.13	120	1	60	
EF-4	1	CEILING MOUNTED EXHAUST FAN	ORTECH	ODM-5004	0.1	50	0.4		0.13	120	1	60	

MAKE UP AIR UNIT SCHEDULE

TAG	QTY	DESCRIPTION	MANUFACTURER	MODEL	SOURCE	SUPPLY AIR FLOW (CFM)	HEATING INPUT/OUTPUT	ELECTRICAL		
								VOLTAGE (V)	PHASE	FREQUENCY (HZ)
MUA-1	1	MINI MAKE UP AIR UNIT	THERMOLEC	FER-6-8-240/1	ELECTRIC	300	20477	240	1	60



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REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	RB	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH

CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: MECHANICAL SCHEDULES

PROJECT NO: 1107994

DRAWING NO: MM002

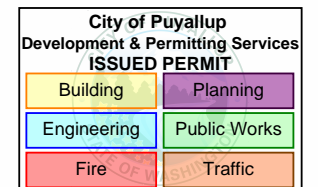
REV. # A

WATER HEATER SCHEDULE

TAG	QTY	DESCRIPTION	MANUFACTURER	MODEL	HEATING INPUT (BTU/H)	SOURCE	VOLUME (GAL)	ELECTRICAL		COMMENTS
								VOLTAGE (V)	PHASE	
HWH-1	1	COMMERCIAL ELECTRIC WATER HEATER	A.O. SMITH	DEL-30	15358	ELECTRIC	30	240	1	

PLUMBING FIXTURE SCHEDULE

TAG	QTY.	DESCRIPTION	MANUFACTURER	MODEL	TRIM	COMMENTS
FDR-1	3	FLOOR DRAIN, WOOD DECK	WATTS	WWDFD-3PVC		
LAV-1	12	SINK, OVAL, SELF-RIMMING, COUNTERTOP	PROFLO	PF20174WH	MATCO NORCA P4L-400BNP	
MS-1	1	SINK, MOP, 24" x 24"	MUSTEE	63M	FIAT MODEL#830-AA	
UR-1	2	URINAL, WALL HUNG	AMERICAN STANDARD	MAYBROOK 6581.001	DELTA 81T231	
WC-1	7	FLOOR MOUNTED TANK TYPE ELOGNATED BOWL TOILET	PROFLO	PF5112HEWH TANK PFI401TWH ELONGATED BOWL	-	BEMIS 1950 OPEN FRONT SEAT WITH COVER
WC-2	3	TOILET, FLOOR MOUNTED, TANK TYPE ELOGNATED BOWL	AMERICAN STANDARD	4133A218.020 DUAL FLUSH BOWL 3705216.020 ELONGATED RIGHT-HEIGHT BOWL	-	BEMIS 1950 OPEN FRONT SEAT WITH COVER



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PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH

CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: MECHANICAL SCHEDULES 2

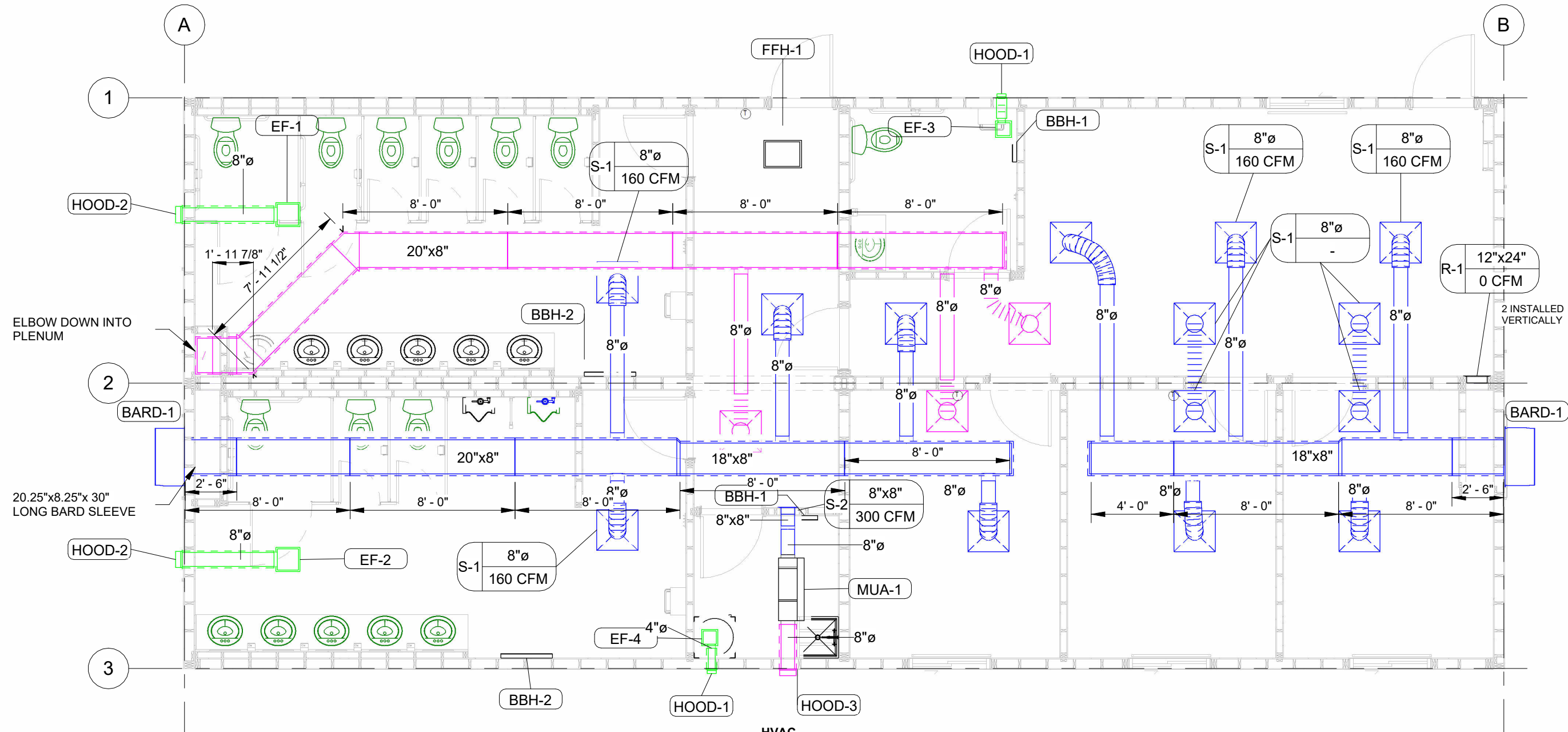
PROJECT NO: 1107994 DRAWING NO: MM003 REV. # A

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R2024.1

11x17 Titleblock



1 OVERALL HVAC PLAN
3/16" = 1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

HVAC

HEAT/COOL:

WALL MOUNT 2 TON COOLING WITH 8 KW HEATING (COLOR BUCKEYE GRAY)

W/ BUILT-IN DISCONNECT
AC W/ ELECTRICAL HEAT

NOTE: OUTDOOR INTAKE AIR DAMPER TO BE IN CLOSED POSITION FOR SHIPPING
NOTE: INTAKE AIR DAMPER MUST BE ADJUSTED ON SITE FOR PROPER AIRFLOW - SEE HVAC UNIT OPERATING INSTRUCTIONS.

SUPPLY DUCT:
RETURN DUCT:
EXHAUST DUCT:
DIFFUSERS:
RETURN AIR:
THERMOSTAT:

SINGLE 1" FIBERGLASS DUCTBOARD UNDER ROOF, FLEXIBLE BRANCH DUCT WITH BALANCING DAMPERS, LOW PRESSURE DUCT
SINGLE 1" FIBERGLASS DUCTBOARD UNDER ROOF, FLEXIBLE BRANCH DUCT, LOW PRESSURE DUCT
SHEET METAL OR FLEXIBLE DUCTWORK WITH R-5 INSULATION
24X24 TBAR LAY-IN (CEILING)
24X24 TBAR LAY-IN (CEILING)
PROGRAMMABLE FOR CENTRAL HVAC UNIT - UP 48"
NOTE: ALL DUCTWORK CONSTRUCTION TO COMPLY WITH IMC
NOTE: ALL RELIEF, OUTSIDE AIR INTAKES AND EXHAUST OPENINGS PROVIDED WITH DAMPERS.
NOTE: ALL COMMISIONING IF REQUIRED TO BE DONE ON SITE



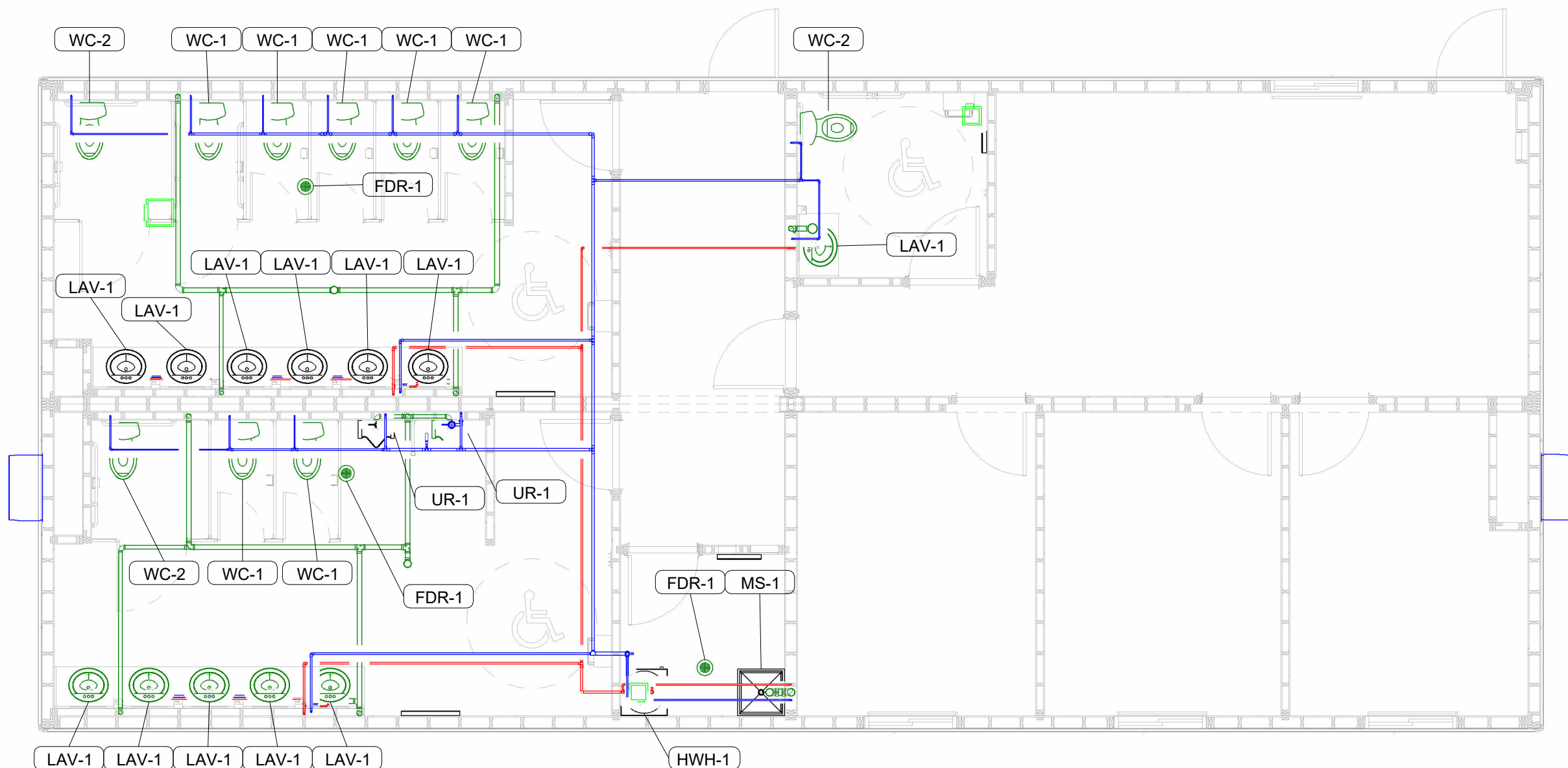
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REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	RB	

PROJECT:
28x64 ASL USA SR FLEET
OFFICE WASH
CLIENT:
CASCADE CHRISTIAN SCHOOL

DRAWING TITLE:
OVERALL HVAC PLAN - LEVEL 1
PROJECT NO:
1107994
DRAWING NO:
MM101
REV. #
A



1 OVERALL PLUMBING PLAN
3/16" = 1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

- PLUMBING GENERAL NOTES
1. ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER THE 2017 IDAHO STATE PLUMBING CODE.
 2. ALL VALVES, UNIONS, ETC. TO BE THE SAME SIZE AS LINE SIZE UNLESS OTHERWISE NOTED.
 3. ALL WASTE AND VENT PIPING SHALL BE SLOPED AT 1/8" PER FOOT FOR PIPE SIZES 4 TO 6 INCHES AND 1/4" PER FOOT FOR 3" OR SMALLER PIPE.
 4. EACH PLUMBING VENT SHALL TERMINATE ABOVE ROOF AND NOT LESS THAN TEN (10) FEET FROM OR AT LEAST THREE (3) FEET ABOVE ANY WINDOW, DOOR, OPENING OR AIR INTAKE.
 5. ALL DRAINAGE PIPING TO BE CONCEALED WHERE POSSIBLE.
 6. ALL COLD AND HOT WATER DOMESTIC PIPING TO BE TYPE "PEX"
 7. ALL WASTE, VENT DRAINAGE LINES AND FITTINGS TO BE PVC, SCH 40.
 8. SUPPORT FOR PEX PIPE LESS THAN 1" SHALL BE EVERY 32".
 9. SUPPORT FOR PVC PIPE SHALL BE EVERY 48".
 10. ALL DRAINAGE PVC & PEX PIPE STUBBED TO UNDERSIDE OF STRUCTURAL FLOOR WITH MAIN SANITARY & DOMESTIC FOR SITE CONNECTION, HARNESS & INSULATION, BY OTHERS ON-SITE.
 11. SITE SETUP TEAM TO COORDINATE WITH SANITARY & WATER INLET PENETRATIONS.
 12. ALL PLUMBING FITTINGS AND HOT WATER HEATER TO HAVE SHUT OFF VALVES.
 13. DESIGN WATER PRESSURE 55 PSI, DEVELOPED LENGTH ESTIMATED AT 70 FT.
 14. NO INTERIOR PLUMBING INSULATION REQUIRED. EXTERIOR SANITARY HEAT TRACING AND INSULATION TO BE INSTALLED AS DETERMINED BY SITE INSTALLERS.



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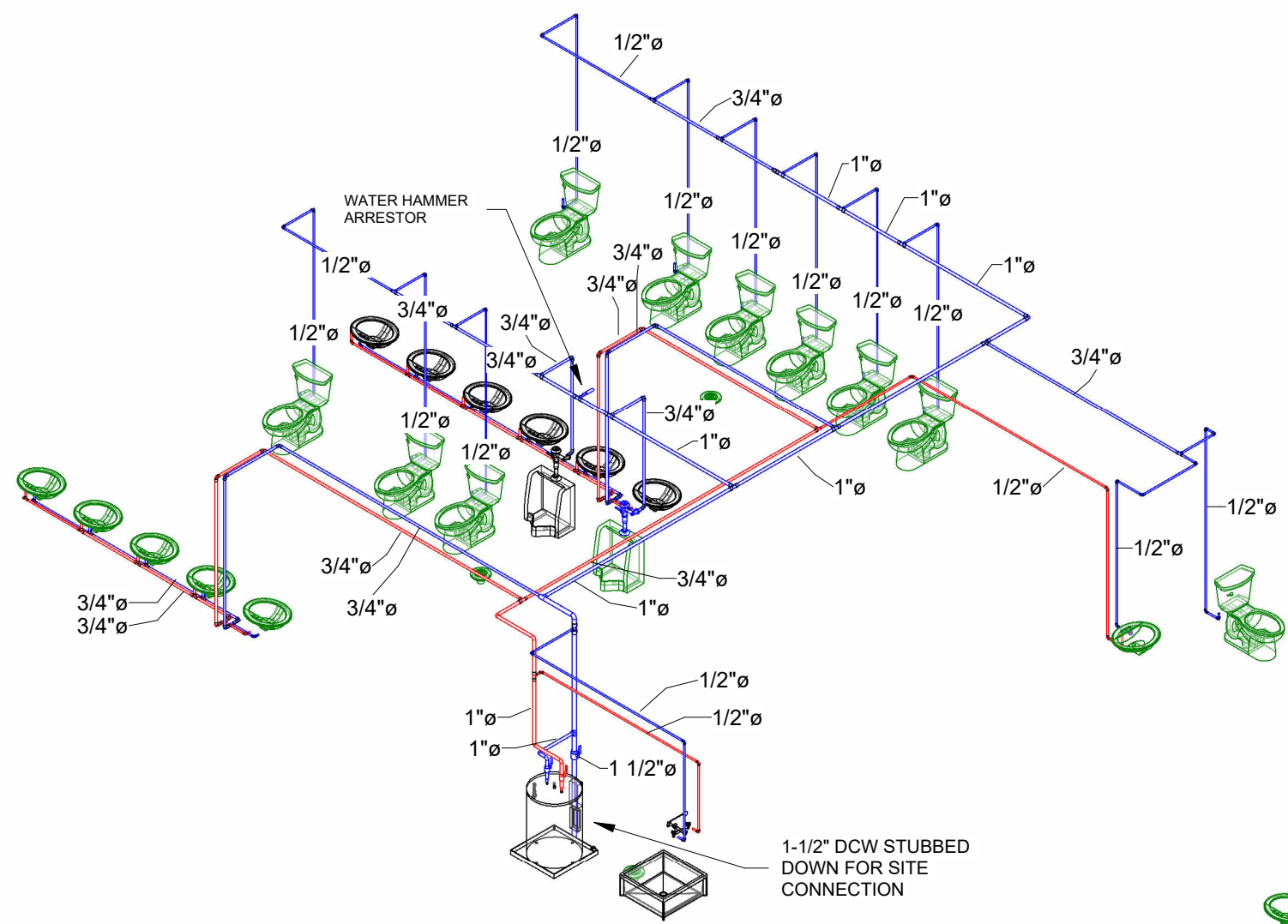
PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH		DRAWING TITLE: OVERALL PLUMBING PLAN - LEVEL 1		
CLIENT: CASCADE CHRISTIAN SCHOOL		PROJECT NO: 1107994	DRAWING NO: MM301	REV. # A

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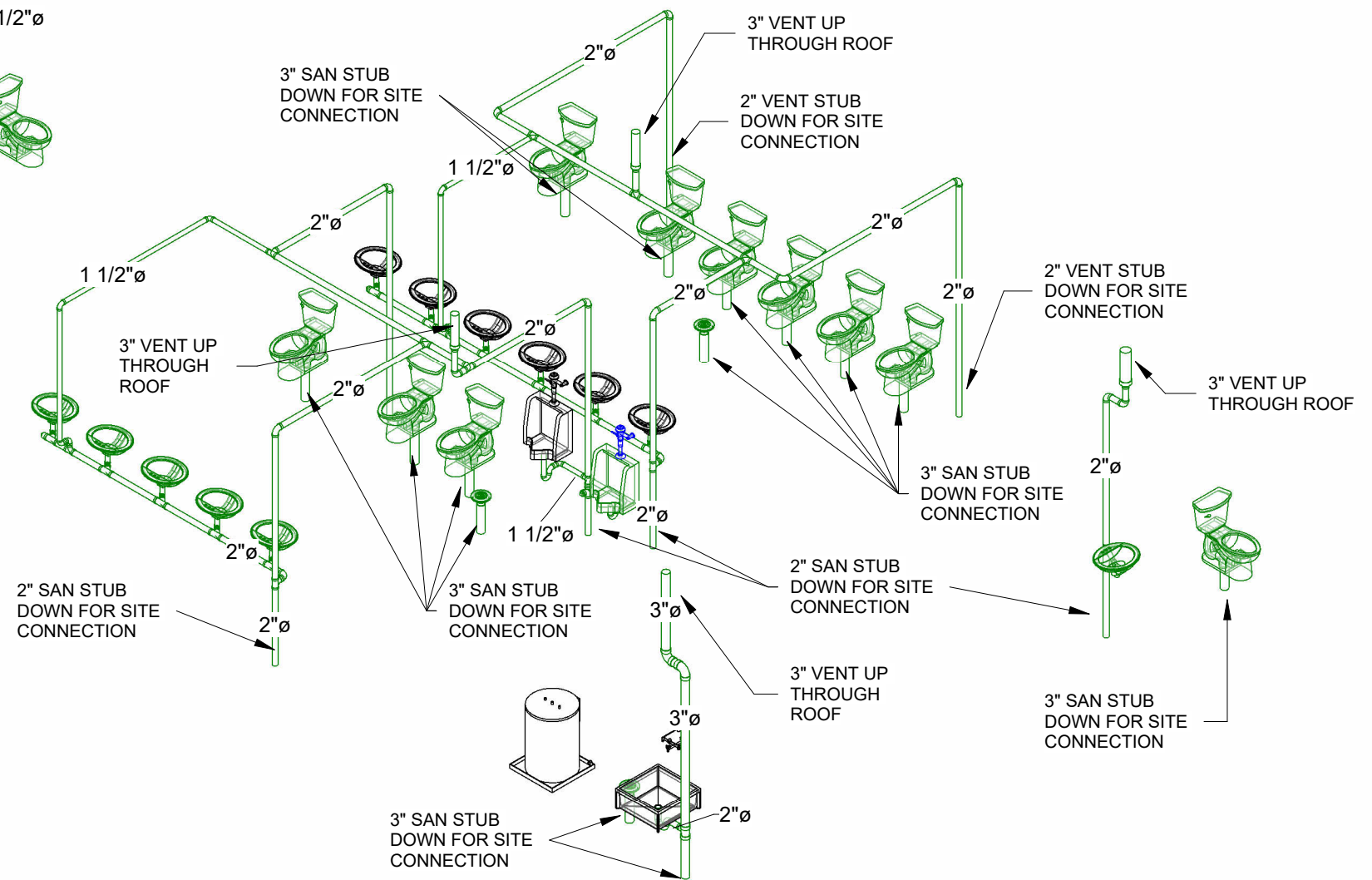
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City of Puyallup Development & Permitting Services ISSUED PERMIT			
Building	Planning	Engineering	Public Works
Fire	Traffic		



1 POTABLE WATER ISO



2 SANITARY/VENT ISO



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PROJECT:
28x64 ASL USA SR FLEET
OFFICE WASH

CLIENT:
CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: PLUMBING DETAILS		
PROJECT NO: 1107994	DRAWING NO: MM310	REV. # A

PLOT DATE: 2024-06-07 3:28:31 PM

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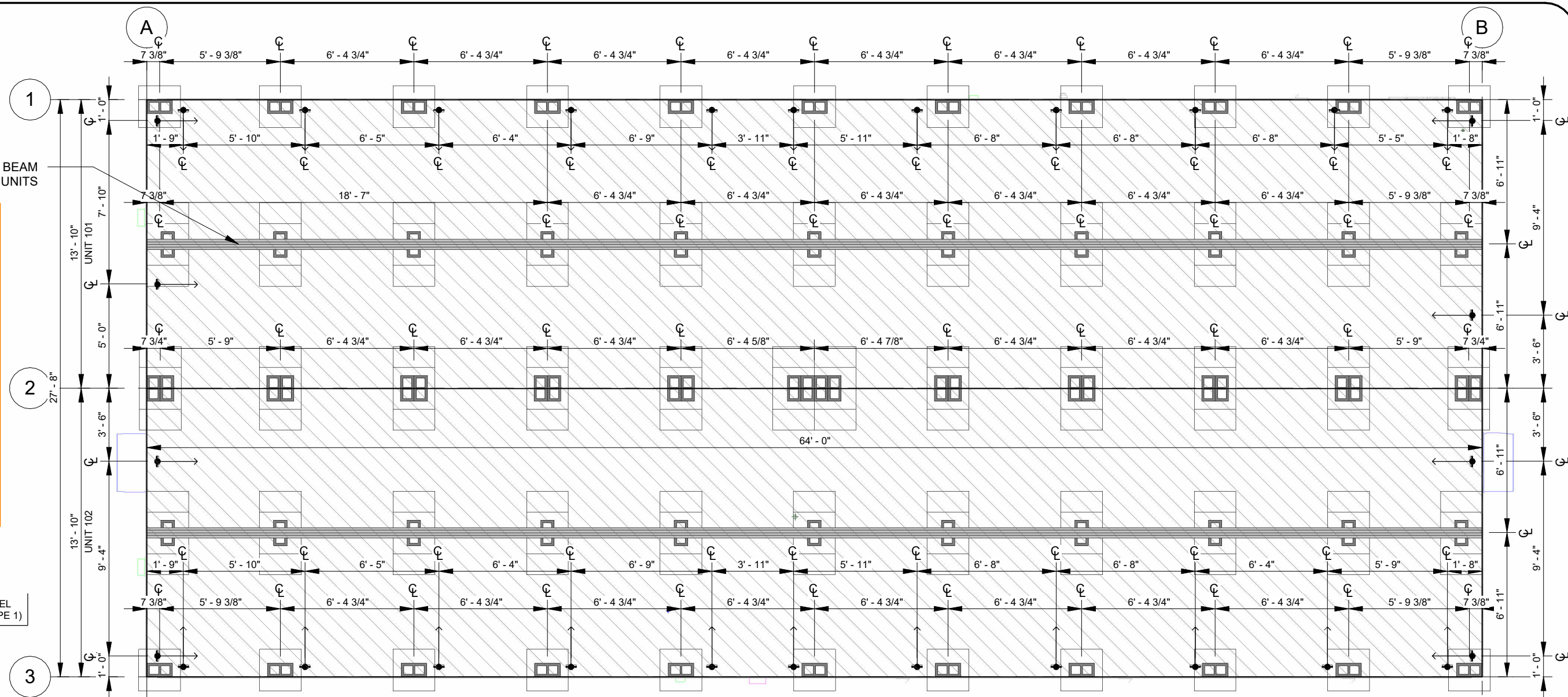
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City of Puyallup
Development & Permitting Services
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Building	Planning
Engineering	Public Works
Fire	Traffic

This foundation plan is for the office and bathroom portable **ONLY**

See Site Plan, Sheet A1.2, Partial Site Plan for with portable is office and bathroom portable.



1 STRUCTURAL FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

STRUCTURAL NOTES

- GENERAL:
 - BUILDING DIMENSIONS FROM THE MODULAR BUILDING MANUFACTURERS MAY VARY AND INSIGNIFICANT ADJUSTMENTS MAY BE MADE IN THE FIELD.
 - ANY VARIATION IN INSTALLATION OR MATERIALS OF THE FOUNDATION REQUIRES ENGINEER CONCURRENCE PRIOR TO PURCHASE AND INSTALLATION OF THE FOUNDATION MATERIALS.
 - A GEOTECHNICAL REPORT WAS NOT PROVIDED FOR THIS DESIGN. IBC MINIMUM VALUES FOR SOIL BEARING WAS USED. VERIFY BEARING CAPACITY WITH LOCAL BUILDING OFFICIAL PRIOR TO INSTALLATION. OWNER IS RESPONSIBLE FOR PROVIDING A STABLE, LEVEL AND SMOOTH SUBGRADE.
- DESIGN INFORMATION & LOADING:
 - BUILDING CODE
 - 2021 WASHINGTON STATE BUILDING CODE (2021 IBC, AMENDED) & OSSC-2019
 - BUILDING RISK CATEGORY II
 - ROOF LIVE LOADS:
 - 45 PSF-GROUND SNOW LOAD
 - 45 PSF-ROOF DESIGN SNOW LOAD
 - 20 PSF-ROOF DESIGN LIVE LOAD
 - FLOOR LIVE LOAD: CLASSROOM
 - 125 PSF UNIFORM
 - 1,000# CONCENTRATED
 - WIND CRITERION:
 - Vult=130 MPH, Vasd=101 MPH, EXP C, Kzt=1.0
 - SEISMIC CRITERION: Sds=1.04, S1=0.61, Ie=1.0, SEISMIC CATEGORY, D
 - ASSUMED SOIL BEARING: 2,000 PSF, ASSUMED SITE SOIL CLASS D-DEFAULT

- CONCRETE: (24"x24"x4", MIN. PRECAST BEARING PADS)
 - DESIGN COMP. STRENGTH 2,500 PSI
 - REINF. YIELD 60 KSI
- MASONRY:
 - 8x16 UNITS ASTM C-90, GRADE N
 - UNITS MAY BE 8" &/OR 4" NOMINAL HEIGHT UNITS.
 - SET SINGLE DRY-STACKED UNITS W/CORES VERTICAL & NO MORE THAN 24-INCHES HIGH, PER PLAN.
 - SET DOUBLE ALTERNATING DRY-STACKED UNITS W/CORES VERTICAL & NO MORE THAN 48-INCHES HIGH, PER PLAN.
 - SET DOUBLE ALTERNATING DRY-STACKED UNITS W/CORES VERTICAL, CELLS GROUTED TO WITHIN (3) UNITS FROM TOP, NO MORE THAN 72-INCHES HIGH, PER PLAN. IF HIGHER THAN 72-INCHES A SPECIAL STRUCTURAL REVIEW IS REQUIRED.
- WOOD:
 - ALL WOOD MEMBERS OF THE FOUNDATION SYSTEM SHALL BE SPF-STD OR BETTER, UNLESS NOTED OTHERWISE.
 - ALL WOOD IN CONTACT WITH SOIL, ASPHALT, MASONRY, OR CONCRETE SHALL BE PRESSURE TREATED (P.T.), FOR EXPOSURE.
 - ALL WOOD WITHIN 6-INCHES OF SUBGRADE TO BE TREATED FOR EXPOSURE AND INSECTS.
 - CONNECTORS IN CONTACT WITH P.T. WOOD TO BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL CONNECTORS.
 - WOOD BEARING PADS MAY BE SUBSTITUTED FOR 24x24 CONCRETE PADS ONE FOR ONE AND SHALL BE P.T. 2x12-24" LONG, MIN.

- SPECIALTY ITEMS:
 - METAL PIERS TO BE CAPABLE OF SUPPORTING 6,000#
 - ABS PADS MAY BE SUBSTITUTED FOR 24"x24" CONCRETE PADS ONE FOR ONE AND SHALL BE "BLACK PAD" OR EQUIVALENT, 24"x24", MIN.
 - TRANSVERSE & LONGITUDINAL SOIL ANCHORS TO BE MINUTEMAN ANCHORS, MARK 'MMA-35' MODEL '36-XDH', X-DRIVE ANCHORS OR EQUIVALENT W/ A MIN. ALLOWABLE DESIGN LOAD OF 1,800# IN ASPHALT.
 - UPLIFT SOIL ANCHORS TO BE MINUTEMAN ANCHORS, MARK 'MMA-92', MODEL '4430 EZDH 3 4' OR 'GW-2 -NC1' AUGER STYLE SOIL ANCHORS W/STABILIZER HEAD OR EQUIVALENT W/ A MIN. ALLOWABLE DESIGN LOAD OF 3,150#. PRE-DRILL ASPHALT AND BASE PRIOR TO INSTALLATION. REFILL DRILLED HOLE.
 - COMPLETE FINAL ADJUSTMENT OF TIES TO BUILDING ONLY AFTER BUILDING IS FULLY BLOCKED AND LEVELED.
 - INSTALL ALL SPECIALTY ITEMS PER THE MANUFACTURER'S RECOMMENDATIONS.
- VENTING:
 - IF CRAWLSPACE IS ENCLOSED, PROVIDE UNDER FLOOR VENTILATION AT 1 NET SF OF VENTILATION PER 150 SF OF FLOOR AREA.
 - IF A CLASS 1 VAPOR RETARDER IS INSTALLED THE RATIO MAY BE INCREASED TO 11500.
- ACCESS:
 - PROVIDE MINIMUM 18"x24" ACCESS TO THE UNDER FLOOR AREA.
 - PROVIDE 18" MIN. CLEARANCE FROM SOIL TO UNDERSIDE OF ANY UNTREATED WOOD MEMBER.
 - PROVIDE 12" MIN. CLEARANCE UNDER FROM SOIL TO UNDERSIDE OF ALL BUILDING MEMBERS.
- SITE CONDITIONS:
 - FOUNDATION SUBGRADE TO BE 2-INCH MINIMUM ASPHALT PAVEMENT OVER A MINIMUM OF 4-INCH THICK COMPACTED ROAD-MIX GRAVEL PAD OVER UNDISTURBED NATIVE SUITABLE STABLE SOILS OR STRUCTURAL FILL.



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PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH

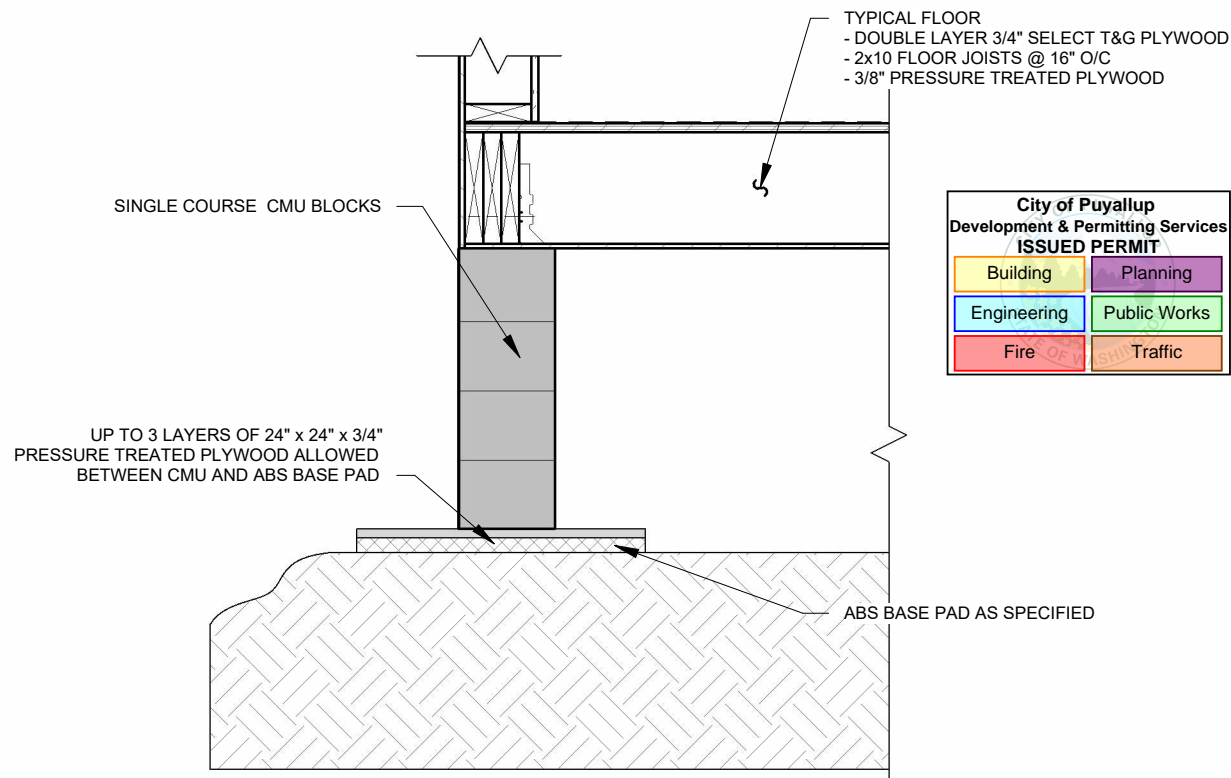
CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: FOUNDATION PLAN	
PROJECT NO: 1107994	DRAWING NO: SC100
REV. # A	

PLOT DATE: 2024-06-07 3:28:32 PM

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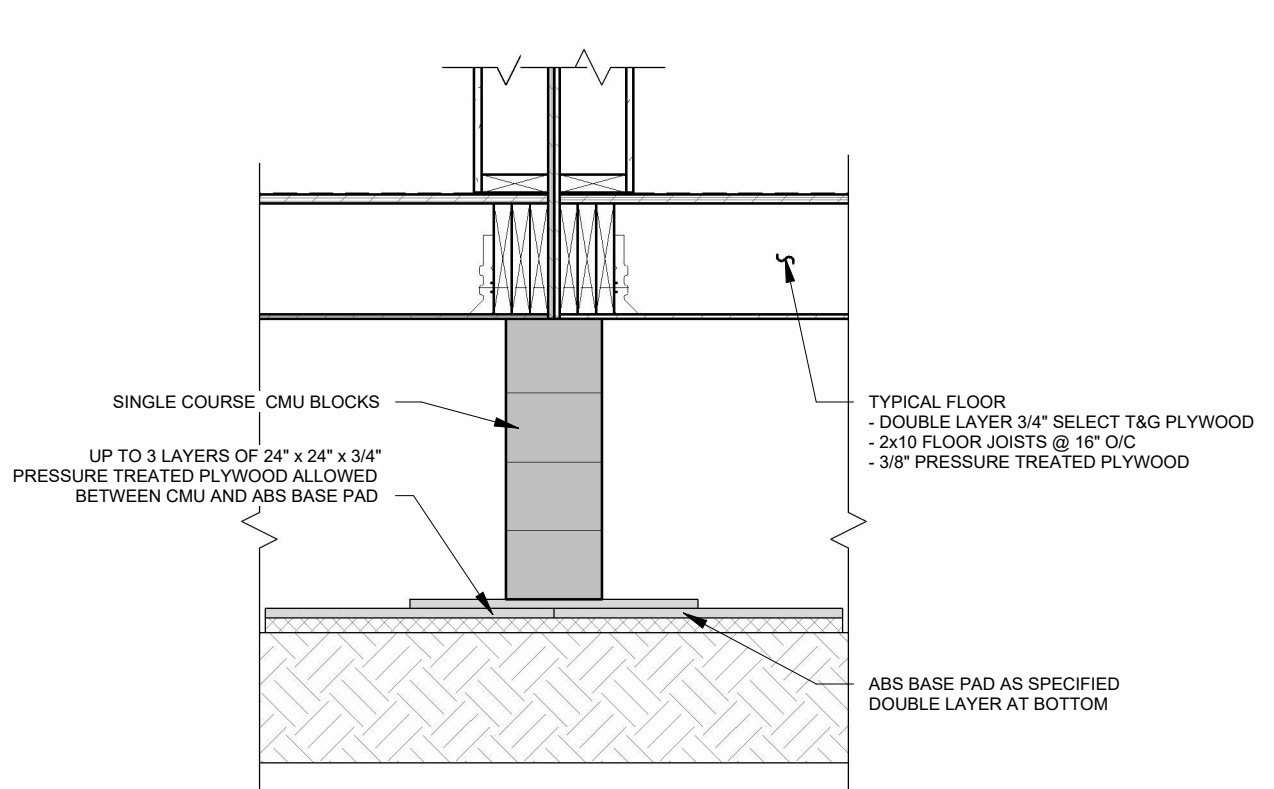
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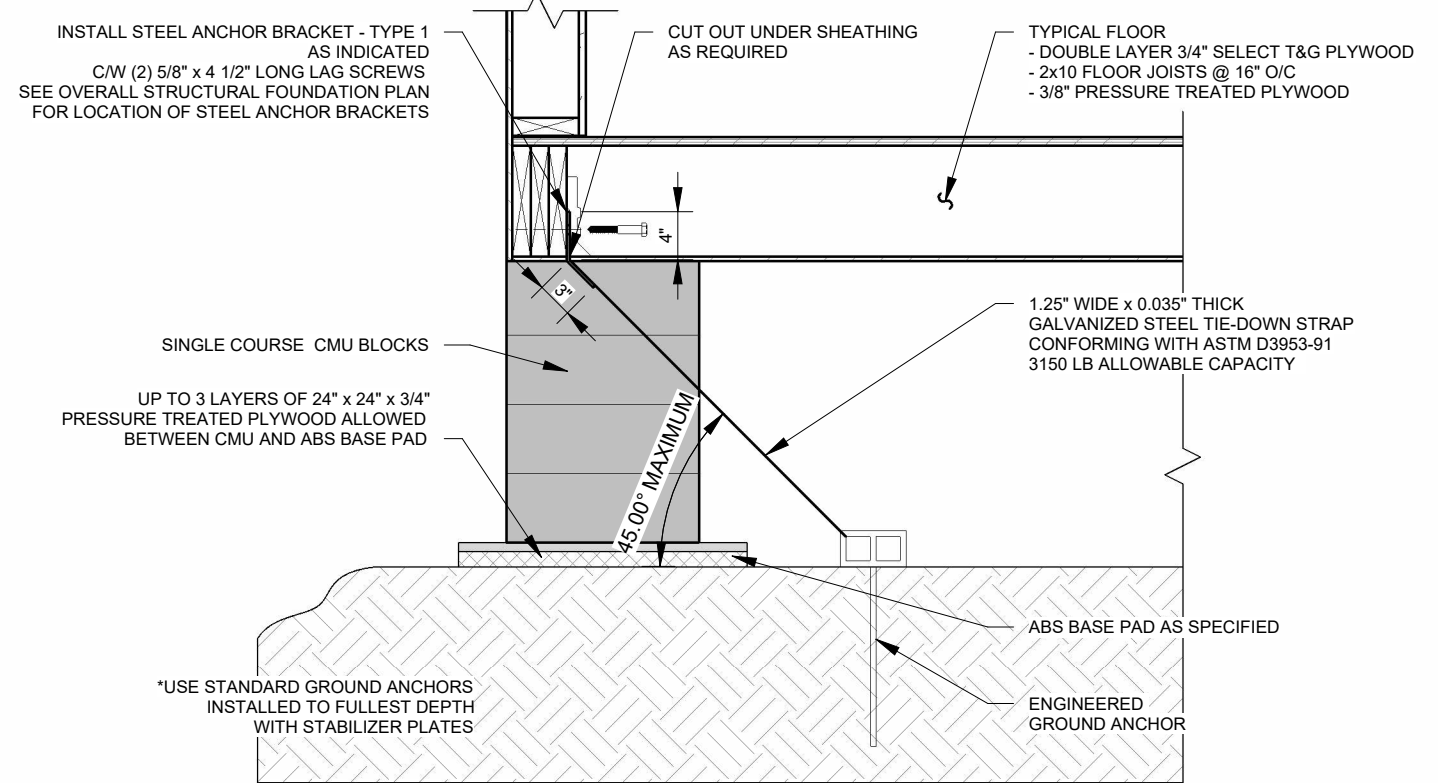
City of Puyallup
Development & Permitting Services
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Building	Planning
Engineering	Public Works
Fire	Traffic

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

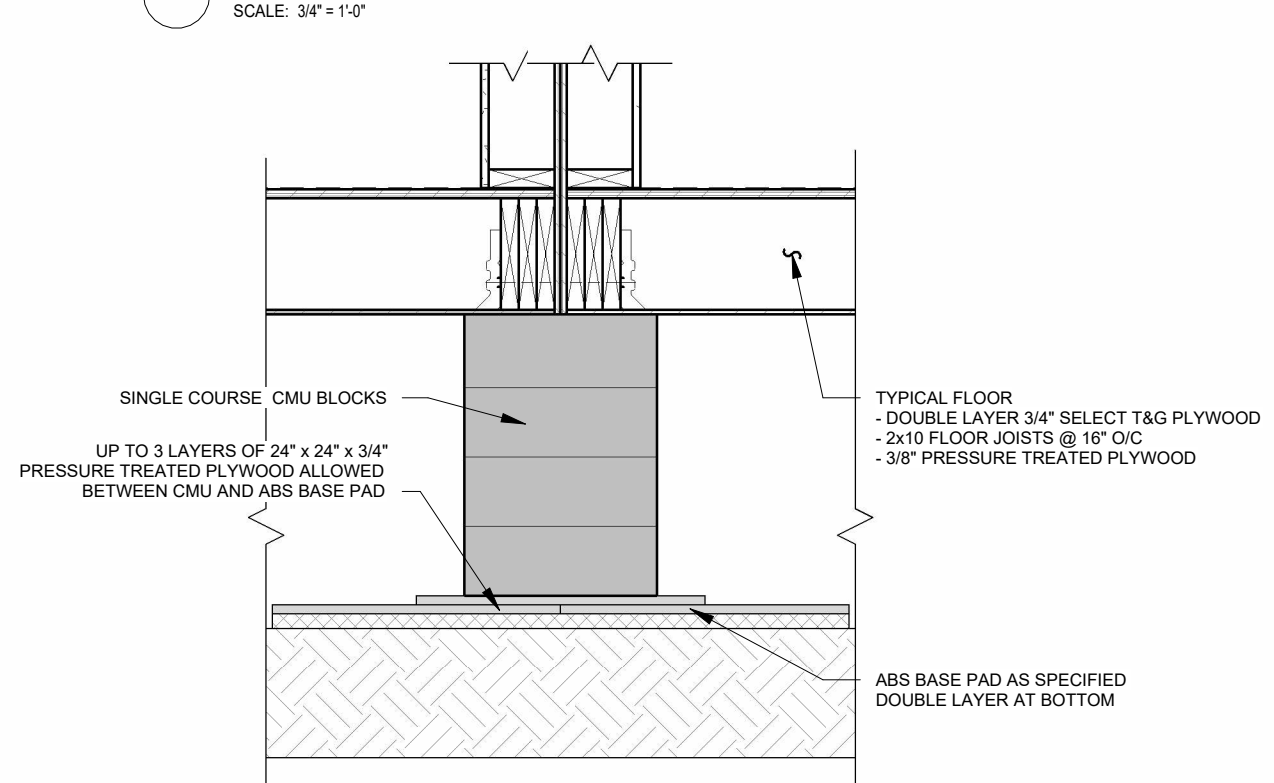


2 FOUNDATION MATING LINE DETAIL
SCALE: 3/4" = 1'-0"



3 FOUNDATION SOIL ANCHOR
SCALE: 3/4" = 1'-0"

Use Standard Earth Ground Anchors Installed To Fullest Depth With Stabilizer Plates.
Total (9) Tie-Downs At Each Structura Long Side And (2) Tie-Downs Per Short Side.



4 FOUNDATION COLUMN SUPPORT DETAIL
SCALE: 3/4" = 1'-0"



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A	2024-06-07	ISSUED FOR STATE APPROVAL	CB	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH

CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: FOUNDATION DETAILS

PROJECT NO: 1107994	DRAWING NO: SC200	REV. # A
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DRAWING LIST - STRUCTURAL MANUFACTURING	
SHEET NUMBER	SHEET NAME
SC100	FOUNDATION PLAN
SC200	FOUNDATION DETAILS
SM001	STRUCTURAL DRAWING LIST & GENERAL INFORMATION
SM121-101	STRUCTURAL FLOOR FRAMING PLAN - UNIT 101
SM121-102	STRUCTURAL FLOOR FRAMING PLAN - UNIT 102
SM141	OVERALL SEISMIC CEILING PLAN
SM151-101	STRUCTURAL ROOF FRAMING PLAN - UNIT 101
SM151-102	STRUCTURAL ROOF FRAMING PLAN - UNIT 102
SM300	EXTERIOR STRUCTURAL DETAILS
SM301	EXTERIOR STRUCTURAL DETAILS
SM302	EXTERIOR STRUCTURAL DETAILS
SM303	EXTERIOR STRUCTURAL DETAILS
SM304	EXTERIOR STRUCTURAL DETAILS
SM500	STEEL FABRICATION DETAILS
Grand total: 14	

BUILDING DESIGN LOADS:

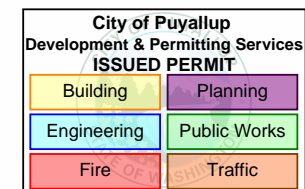
ROOF LIVE LOAD:	20 PSF
FLOOR LIVE LOAD UNIFORM:	125 PSF
FLOOR LIVE LOAD CONCENTRATED:	2000 LBS
ROOF SNOW LOAD:	45 PSF
GROUND SNOW LOAD:	45 PSF
WIND LOAD:	130 MPH @ 3-SEC GUST
WIND EXPOSURE CATEGORY:	C (VULT: 130 MPH, VASD: 121 MPH)
SEISMIC DESIGN CATEGORY:	D
SITE DESIGN CLASSIFICATION:	D
OCCUPANCY CLASSIFICATION	B PER IBC

FLOOD LOAD:

THIS BUILDING IS NOT DESIGNED TO BE SUBMERGED OR SUBJECTED TO WAVE ACTION WHEN LOCATED IN A FLOOD PRONE OR ZONE AREA. THE FINISH FLOOR ELEVATION MUST BE LOCATED ABOVE THE BUILDING SITE FLOOD PLANE LEVEL FOR THIS BUILDING TO BE LOCATED IN A FLOOD PRONE OR ZONE AREA SUBJECT TO LOCAL JURISDICTION.

STRUCTURAL ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
ACC	ACCESSIBLE
ACFL	ACCESS FLOOR
AD	AREA DRAIN
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
B/O	BOTTOM OF
BFC	BELOW FINISHED CEILING
BLDG	BUILDING
BSC	BELOW STRUCTURAL CEILING
C/L	CENTRE LINE
C/W	COMPLETE WITH
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CLR	CLEARANCE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
DEG	DEGREES
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DP	DEPTH
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
F/O	FACE OF
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FIM	FREE ISSUE MATERIAL
FLR	FLOOR
FT	FOOT/FEET
GA	GAUGE
GWB	GYPSUM WALL BOARD
GWG	GEORGIAN WIRE GLASS
GYP	GYPSUM
ID	INSIDE DIAMETER
INFO	INFORMATION
INSUL	INSULATION
L	LENGTH
LL	LIVE LOAD

STRUCTURAL ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
m	METER
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
mm	MILLIMETER
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
No.	NUMBER
NTS	NOT TO SCALE
O/C	ON CENTRE
O/H	OVERHEAD
OD	OUTSIDE DIAMETER
OPP	OPPOSITE
OWSJ	OPEN WEB STEEL JOIST
PLAM	PLASTIC LAMINATE
PSSI	PLANT SUPPLIED SITE INSTALLED
PT	PRESSURE TREATED
R	RADIUS
R/W	REINFORCE WITH
REINF	REINFORCED
SF	SQUARE FEET
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSSI	SITE SUPPLIED SITE INSTALLED
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STRUCT	STRUCTURAL
SUSP	SUSPENDED
T/O	TOP OF
TBD	TO BE DETERMINED
TOC	TOP OF CURB
TOF	TOP OF FLOOR
TOS	TOP OF STEEL
TYP	TYPICAL
U/G	UNDER GROUND
U/S	UNDERSIDE
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/C	WATER CLOSET



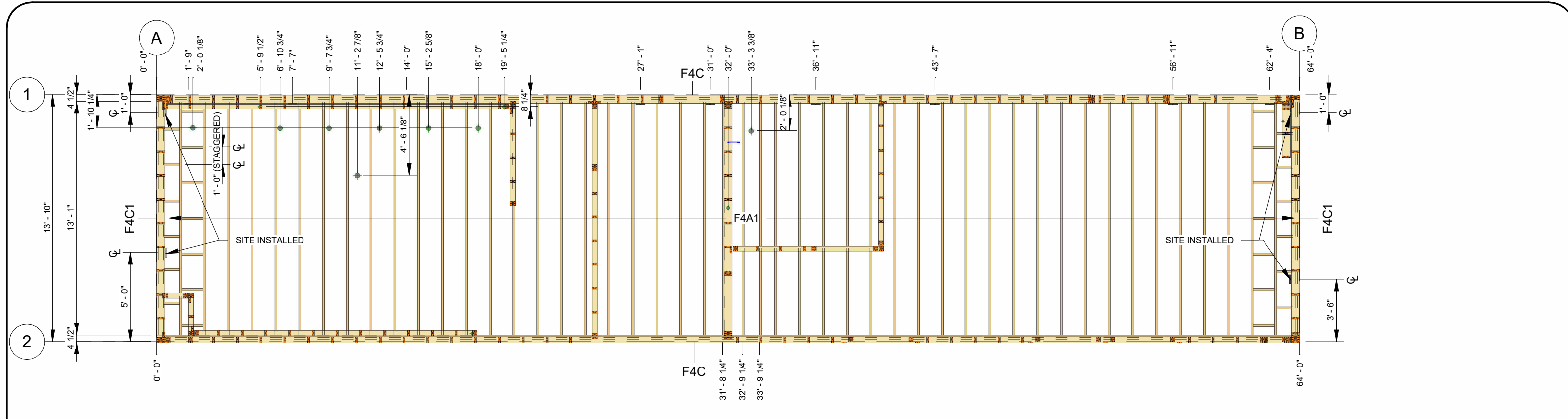
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PRPF20241230

REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	CB	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH		DRAWING TITLE: STRUCTURAL DRAWING LIST & GENERAL INFORMATION		
CLIENT: CASCADE CHRISTIAN SCHOOL		PROJECT NO: 1107994	DRAWING NO: SM001	REV. # A



1 FLOOR FRAMING PLAN - UNIT 101
 AM200 SCALE: 3/16" = 1'-0"

City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

FLOOR JOIST SCHEDULE - UNIT 101

ID	CONSTRUCTION	QTY.	LENGTH	NOTES
F4C1	3 - 2x10 C/W (2) A34	2	13' - 1"	C/W ANGLES INSIDE OF FRAMING AT TRUSS COLUMN SADDLE SIDE
F5A	2x12	1	64' - 0"	-

FLOOR SHEATHING SCHEDULE

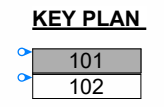
SUBFLOOR	SUBFLOOR FASTENING	UNDERFLOOR	UNDERFLOOR FASTENING
3/4" D. FIR SELECT T&G PLYWOOD	GLUED AND SCREWED W/ 2" SIMPSON WSNTL2LS FLOOR SCREWS @ 6" EDGE/ 8" FIELD	1/2" PRESSURE TREATED PLYWOOD	2" STAPLED @ 3" EDGE/ 6" FIELD

FLOOR JOIST HANGER SCHEDULE

# OF PLY/ JOIST HANGER TYPE	MODEL ID	FASTENERS	
		HEADER	JOIST
1 - 2x12	SIMPSON LUS210	(8) x 10D	(4) x 10D
3 - 2x12 (CONCEALED)	SIMPSON HUC210-3	(22) x 16D	(10) x 10D

NOTES:
 • ALL DIMENSIONS FROM FACE OF STRUCTURE UNLESS NOTED OTHERWISE
 • ALL HOLE LOCATIONS TAKEN FROM FACE OF STRUCTURE TO CENTRE LINE OF HOLE

NOTES:
 - FILL ALL FASTENER HOLES AS PER MANUFACTURER'S SPECIFICATIONS
 - SEE ARCHITECTURAL DRAWINGS FOR BACKING AND INSULATION
 - SEE STRUCTURAL SCHEDULES FOR WALL, FLOOR AND ROOF CONSTRUCTION



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REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	CB	

PROJECT:
 28x64 ASL USA SR FLEET
 OFFICE WASH

CLIENT:
 CASCADE CHRISTIAN SCHOOL

DRAWING TITLE:
 STRUCTURAL FLOOR FRAMING PLAN - UNIT 101

PROJECT NO:
 1107994

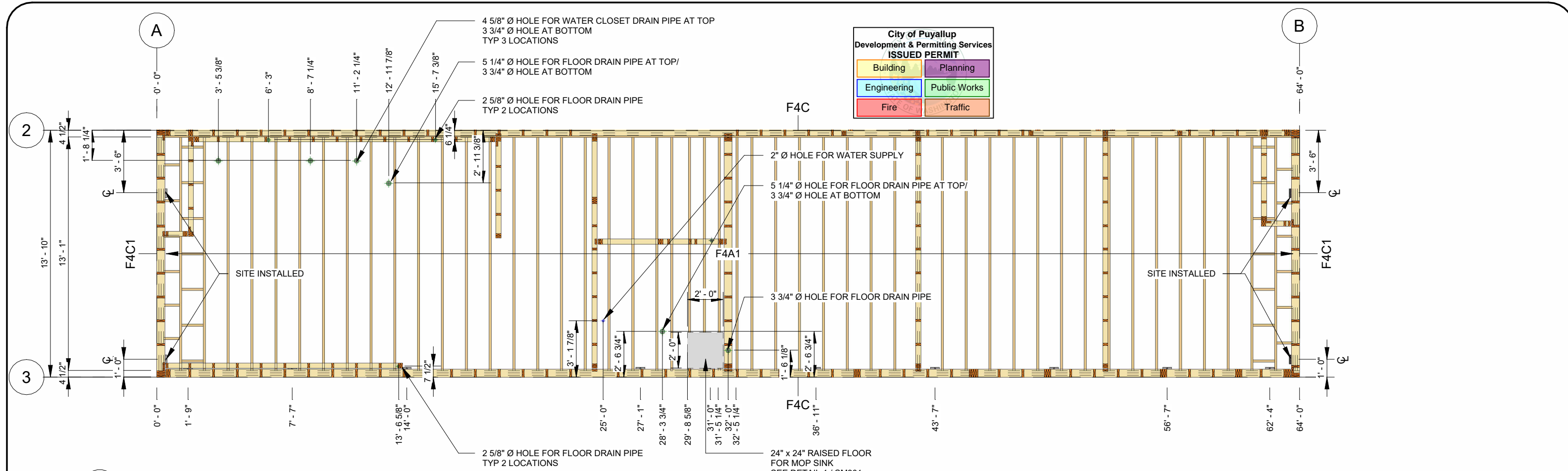
DRAWING NO:
 SM121-101

REV. #
 A

PLOT DATE: 2024-06-07 3:28:35 PM

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11x17 Titleblock



1 FLOOR FRAMING PLAN - UNIT 102
AM200 SCALE: 3/16" = 1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

FLOOR JOIST SCHEDULE - UNIT 102

ID	CONSTRUCTION	QTY.	LENGTH	NOTES
F4A1	2x10 @ 16" O/C C/W LUS28 @ 48" O/C	49	13' - 1"	C/W INVERTED JOIST HANGERS
F4C	2 - 2x10	2	64' - 0"	-
F4C1	3 - 2x10 C/W (2) A34	2	13' - 1"	C/W ANGLES INSIDE OF FRAMING AT TRUSS COLUMN SADDLE SIDE

FLOOR SHEATHING SCHEDULE

SUBFLOOR	SUBFLOOR FASTENING	UNDERFLOOR	UNDERFLOOR FASTENING
3/4" D. FIR SELECT T&G PLYWOOD	GLUED AND SCREWED W/ 2" SIMPSON WSNTL2LS FLOOR SCREWS @ 6" EDGE/ 8" FIELD	1/2" PRESSURE TREATED PLYWOOD	2" STAPLED @ 3" EDGE/ 6" FIELD

FLOOR JOIST HANGER SCHEDULE

# OF PLY/ JOIST HANGER TYPE	MODEL ID	FASTENERS	
		HEADER	JOIST
1 - 2x12	SIMPSON LUS210	(8) x 10D	(4) x 10D
3 - 2x12 (CONCEALED)	SIMPSON HUC210-3	(22) x 16D	(10) x 10D

NOTES:

- ALL DIMENSIONS FROM FACE OF STRUCTURE UNLESS NOTED OTHERWISE
- ALL HOLE LOCATIONS TAKEN FROM FACE OF STRUCTURE TO CENTRE LINE OF HOLE

NOTES:

- FILL ALL FASTENER HOLES AS PER MANUFACTURER'S SPECIFICATIONS
- SEE ARCHITECTURAL DRAWINGS FOR BACKING AND INSULATION
- SEE STRUCTURAL SCHEDULES FOR WALL, FLOOR AND ROOF CONSTRUCTION

KEY PLAN

101
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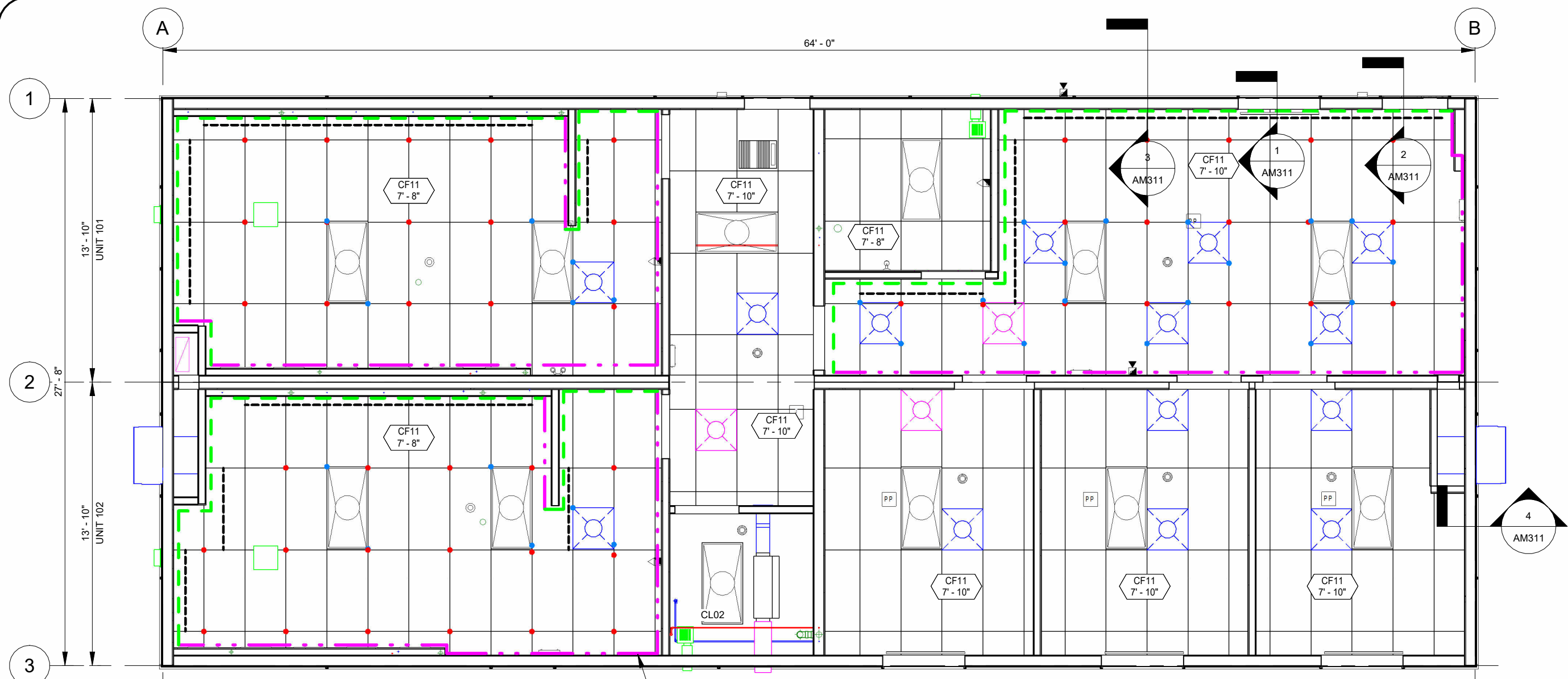
REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	CB	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH

CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: STRUCTURAL FLOOR FRAMING PLAN - UNIT 102

PROJECT NO: 1107994
DRAWING NO: SM121-102
REV. #: A



1 OVERALL SEISMIC CEILING PLAN
AM200 SCALE: 3/16" = 1'-0"

SEISMIC REFLECTED CEILING DETAILS/ INSTALLATION
SEE DETAILS ON SM303
TYP

FOR HEAVY DUTY GRIDS:

- VERTICAL HANGER WIRE, 12 GAUGE, SECURED TO CEILING TEES
MAXIMUM 4 FT. WIRE SPACING
- VERTICAL HANGER WIRE, 12 GAUGE, SECURED TO LIGHT FIXTURES
THIS WIRE MAY BE SLACK

LIGHTING FIXTURES SHALL BE CONNECTED WITH 2 HANGERS WIRES TO THE HOUSING
MECHANICAL SERVICES SHALL BE CONNECTED WITH 2 HANGERS TO THE FIXTURE
SURFACE MOUNTED LIGHTING SHALL BE POSITIVELY CLAMPED TO THE GRID
CLAMPING DEVICE TO HAVE A WIRE TO THE GRID OR ROOF STRUCTURE
GRID INTERSECTIONS SHALL BE CONNECTED WITH SEPARATION JOINT CLIP
VERTICAL HANGER WIRE MAY NOT BE MORE THAN 1/6 OUT OF PLUMB
VERTICAL HANGERS MUST BE STRAIGHT AND SHALL NOT USE BENDS OR KINKS FOR LEVELING

- NON-FIXED GRID-TO-WALL CONNECTIONS SHALL USE 7/8" OR LARGER WALL MOULDING
W/ MINIMUM 3/4" WALL CLEARANCE
(SEE DETAIL 3/ SM304 FOR NON-FIXED CONNECTION)
- STABILIZER BAR NEEDED ON SIDES NOT ATTACHED SEE DETAIL 3/ SM304

THE GRID MUST BE CONNECTED TO THE PERIMETER ON TWO ADJACENT SIDES
(SEE DETAIL 2/ SM304 FOR FIXED CONNECTION)
- LINE ON DRAWING DENOTES WHICH SIDE OF GRID IS ATTACHED TO THE L-ANGLE TRIM

⊕ BRACE STARTING AT 6' FROM ADJACENT WALLS (2" MAX OF TEE INTERSECTION) THEN 12' O/C
IN BOTH DIRECTIONS (SEE DETAIL 7/SM304)

REGULAR CEILING GRIDS WILL BE INSTALLED AS PER TYPICAL ACT (CF03)

SEISMIC DESIGN APPLICABLE FOR SEISMIC DESIGN CATEGORY D
SUSPENDED CEILING SYSTEMS SHALL CONFORM TO ASTM C635 AND ASTM E580
CEILING AREAS LESS THAN 144 SQ.FT. ARE EXEMPT FROM ANY SEISMIC BRACING REQUIREMENTS
CEILING AREAS LESS THAN 1000 SQ.FT. ARE EXEMPT FROM LATERAL FORCE BRACING REQUIREMENTS

CEILING GRID CONSTRUCTION LEGEND			
TAG	ACT GRID TYPE	HANGER WIRE	
CF03	24" x 48" ACT GRID L MOLDS (7/8") OR LARGER DXL26 MAIN TEES - HEAVY DUTY DXL424 CROSS TEES DH4 4-WAY CLIPS AT JOINTS	12 GAUGE HANGER WIRE	

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

KEY PLAN

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102



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PROJECT:
28x64 ASL USA SR FLEET
OFFICE WASH

CLIENT:
CASCADE CHRISTIAN SCHOOL

DRAWING TITLE:
OVERALL SEISMIC CEILING PLAN

PROJECT NO:
1107994

DRAWING NO:
SM141

REV. #
A

PLOT DATE: 2024-06-07 3:28:38 PM

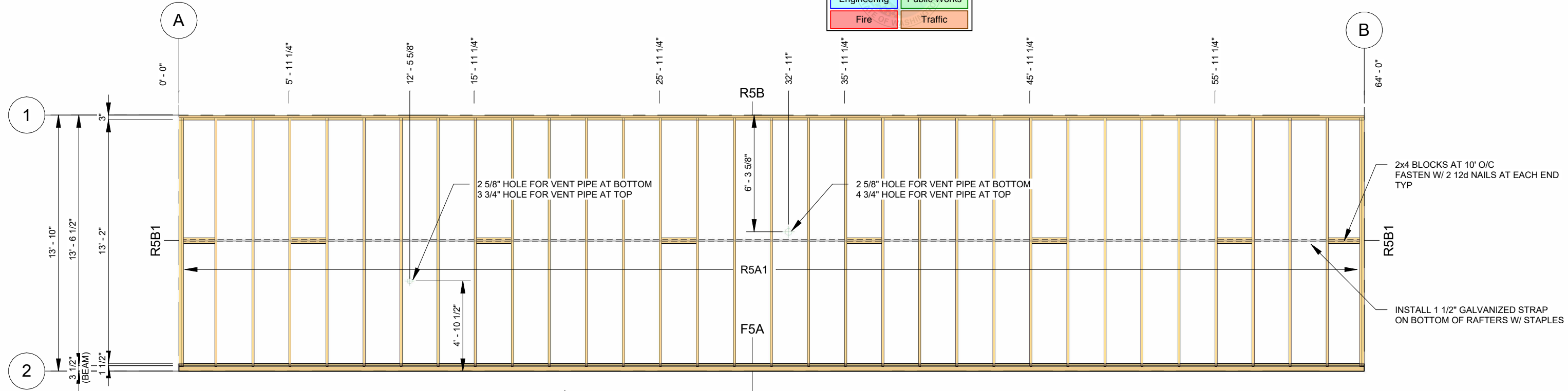
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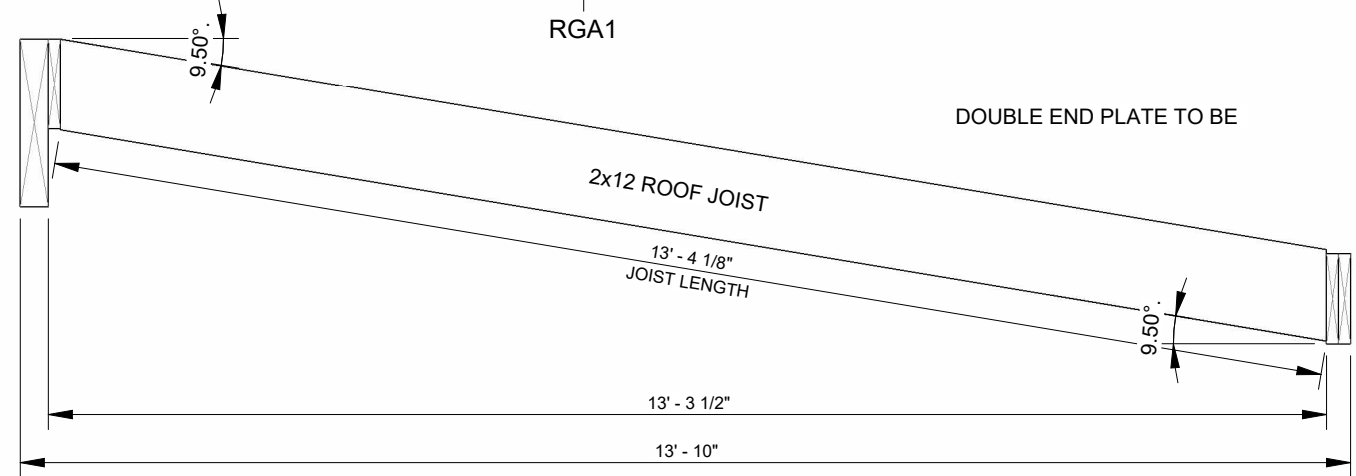
City of Puyallup
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Building	Planning
Engineering	Public Works
Fire	Traffic

NOTES:
 • ALL DIMENSIONS FROM FACE OF STRUCTURE UNLESS NOTED OTHERWISE
 • ALL HOLE LOCATIONS TAKEN FROM FACE OF STRUCTURE TO CENTRE LINE OF HOLE



1 ROOF FRAMING - UNIT 101
SCALE: 3/16" = 1'-0"



ROOF JOIST SCHEDULE - UNIT 101				
ID	CONSTRUCTION	QTY.	LENGTH	NOTES
R5A1	2x12 @ 24" O/C C/W LRU210Z	31	13' - 5 3/4"	C/W HANGERS ON BEAM SIDE
R5B	2x12	1	64' - 0"	-
R5B1	2 - 2x12	2	13' - 5 3/4"	C/W 2 A34 BRACKETS @ EACH END
RGA1	3 1/2" x 21" 24F-EX GLULAM BEAM	1	64' - 0"	C/W WALL FRAMING

ROOF SHEATHING SCHEDULE	
SHEATHING	FASTENING
5/8" D. FIR SELECT PLYWOOD	2 1/4" x 0.120" SUBLOG PRO NAIL SCREWS @ 6" EDGE/ 12" FIELD

ROOF JOIST HANGER SCHEDULE			
# OF PLY/ JOIST HANGER TYPE	MODEL ID	FASTENERS	
		HEADER	JOIST
2x12	SIMPSON LRUS210Z	(6) 0.148" x 3"	(7) 0.162" x 3 1/2"
2 - 2x12	A34 FRAMING ANGLE	(8) 0.131 x 1 1/2	(8) 0.131 x 1 1/2

NOTES:
 - FILL ALL FASTENER HOLES AS PER MANUFACTURER'S SPECIFICATIONS
 - SEE ARCHITECTURAL DRAWINGS FOR BACKING AND INSULATION
 - SEE STRUCTURAL SCHEDULES FOR WALL, FLOOR AND ROOF CONSTRUCTION

KEY PLAN

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REV.	DATE	DESCRIPTION	BY	CHK/APR
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PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH

CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: STRUCTURAL ROOF FRAMING PLAN - UNIT 101

PROJECT NO: 1107994	DRAWING NO: SM151-101	REV. # A
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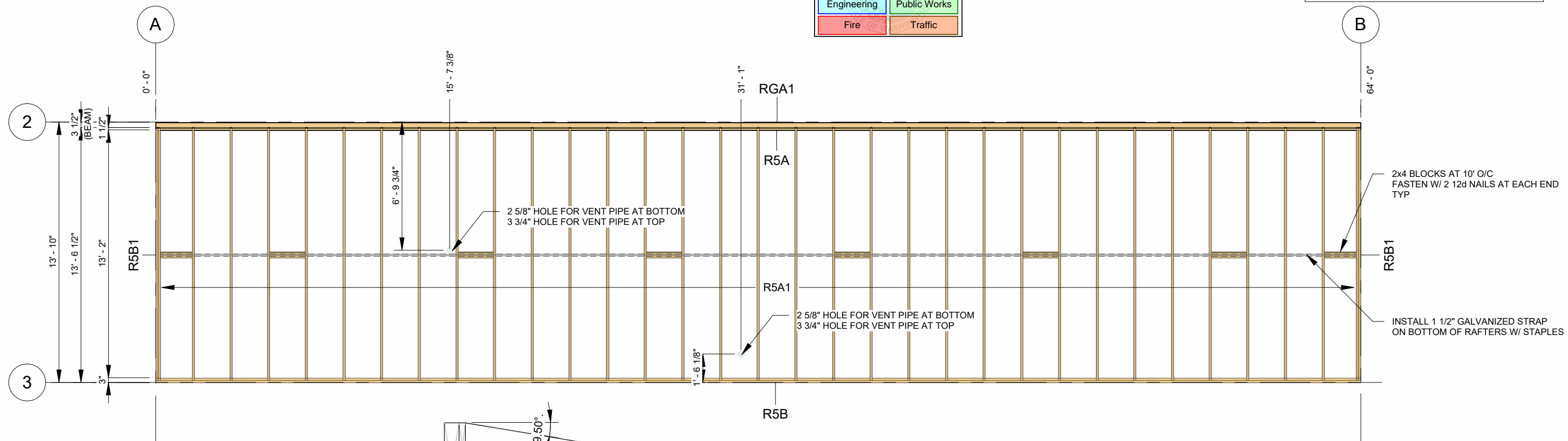
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City of Puyallup
Development & Permitting Services
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Building	Planning
Engineering	Public Works
Fire	Traffic

NOTES:
 • ALL DIMENSIONS FROM FACE OF STRUCTURE UNLESS NOTED OTHERWISE
 • ALL HOLE LOCATIONS TAKEN FROM FACE OF STRUCTURE TO CENTRE LINE OF HOLE



1 ROOF FRAMING - UNIT 102
SCALE: 3/16" = 1'-0"

ROOF JOIST SCHEDULE - UNIT 102				
ID	CONSTRUCTION	QTY.	LENGTH	NOTES
R5A	2x12	1	64' - 0"	-
R5A1	2x12 @ 24" O/C C/W LRU210Z	31	13' - 5 3/4"	C/W HANGERS ON BEAM SIDE
R5B	2x12	1	64' - 0"	-
R5B1	2 - 2x12	2	13' - 5 3/4"	C/W 2 A34 BRACKETS @ EACH END
RGA1	3 1/2" x 21" 24F-EX GLULAM BEAM	1	64' - 0"	C/W WALL FRAMING

ROOF SHEATHING SCHEDULE	
SHEATHING	FASTENING
5/8" D. FIR SELECT PLYWOOD	2 1/4" x 0.120" SUBLOG PRO NAIL SCREWS @ 6" EDGE/ 12" FIELD

ROOF JOIST HANGER SCHEDULE			
# OF PLY/ JOIST HANGER TYPE	MODEL ID	FASTENERS	
		HEADER	JOIST
2x12	SIMPSON LRUS210Z	(6) 0.148" x 3"	(7) 0.162" x 3 1/2"
2 - 2x12	A34 FRAMING ANGLE	(8) 0.131 x 1 1/2	(8) 0.131 x 1 1/2

NOTES:
 - FILL ALL FASTENER HOLES AS PER MANUFACTURER'S SPECIFICATIONS
 - SEE ARCHITECTURAL DRAWINGS FOR BACKING AND INSULATION
 - SEE STRUCTURAL SCHEDULES FOR WALL, FLOOR AND ROOF CONSTRUCTION

KEY PLAN

101
102



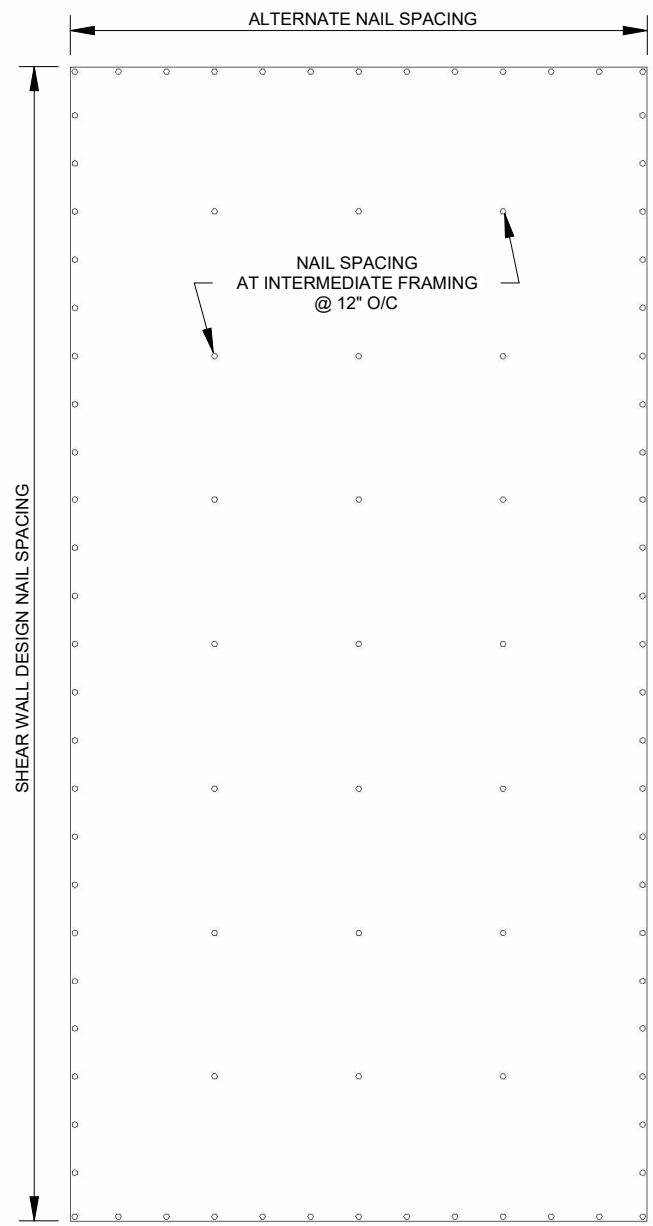
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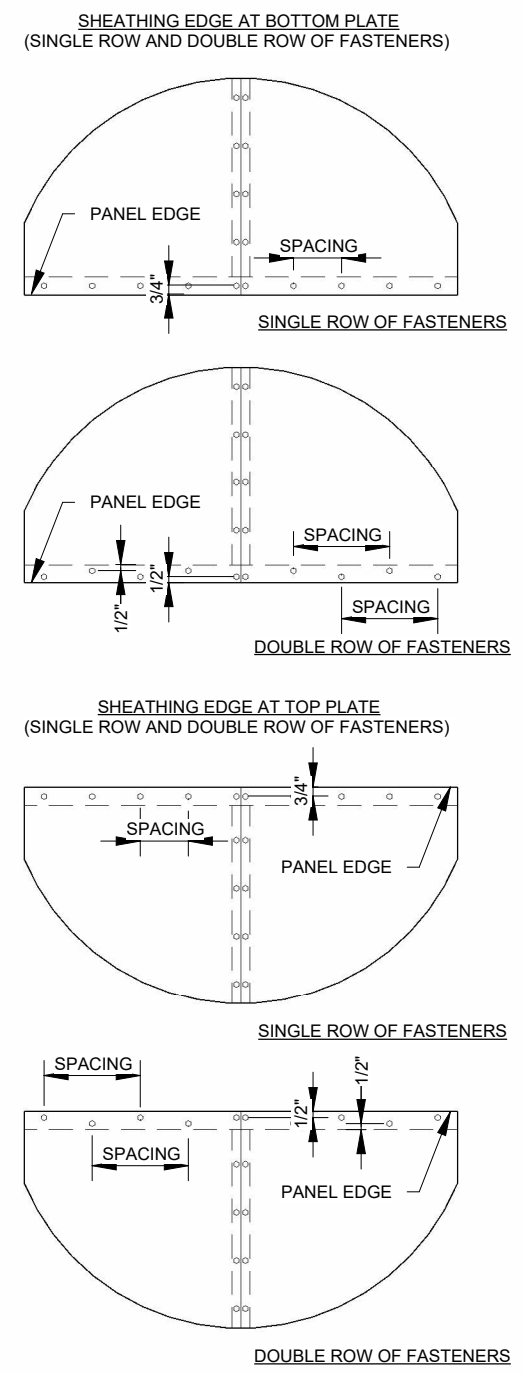
REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	CB	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH
 CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: STRUCTURAL ROOF FRAMING PLAN - UNIT 102
 PROJECT NO: 1107994
 DRAWING NO: SM151-102
 REV. #: A

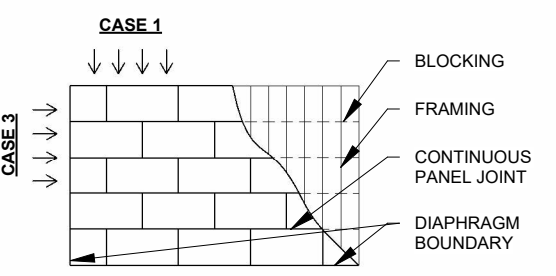


NOTES:
 • EDGE PANEL/ BOUNDARY NAIL SPACING 4" O/C (PER STRUCTURAL CALCULATIONS)

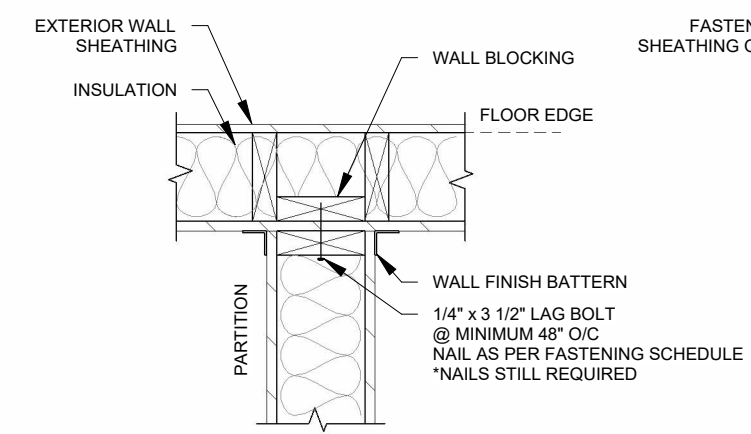


ROOF DIAPHRAGM PANEL ORIENTATIONS

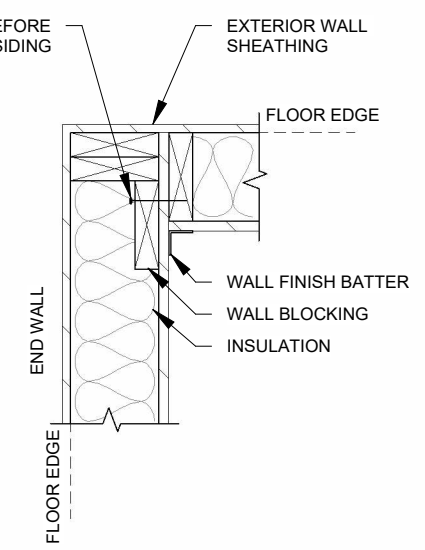
ROOF DIAPHRAGM/ SHEAR WALL PANEL SCHEDULE
 • ROOF DIAPHRAGM PANEL:
 USE 1/2" FIRE RATED PLYWOOD (PS1/ PS2)
 2 1/2" x 0.131" BISSETT GALVANIZED NAIL SCREWS @ 4" O/C EDGE/ 12" O/C FIELD
 • SHEAR WALL PANEL:
 USE 1/2" CDX PLYWOOD (APA RATED)
 3" x 0.148" NAILS @ 4" EDGE/ 12" FIELD
 C/W 2x4 BLOCKING AT ALL SHEATHING JOINTS, DOUBLE END STUD NAILED AT 2" EACH



1 ROOF DIAPHRAGM / SHEAR PANEL DETAILS
 SCALE: 3/4" = 1'-0"

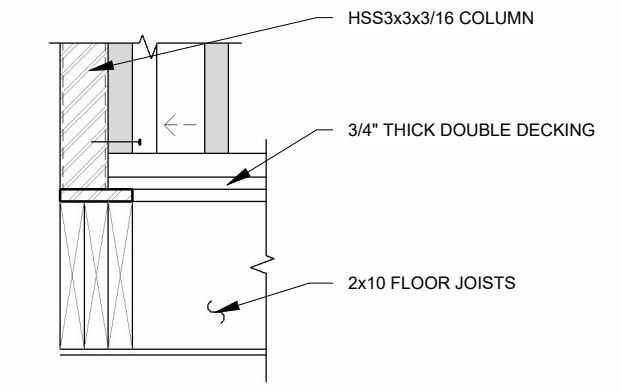
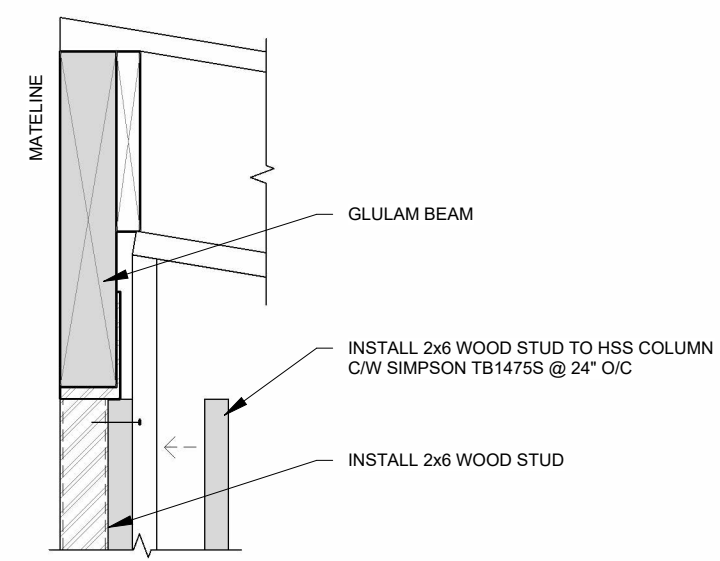


PARTITION WALL TO EXTERIOR WALL ATTACHMENT



END WALL ATTACHMENT

2 WALL FASTENING DETAILS
 SCALE: 1" = 1'-0"



3 WOOD STUD / HSS COLUMN FASTENING DETAIL
 SCALE: 1" = 1'-0"

City of Puyallup
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REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	CB	

PROJECT:
 28x64 ASL USA SR FLEET
 OFFICE WASH

CLIENT:
 CASCADE CHRISTIAN SCHOOL

DRAWING TITLE:
 EXTERIOR STRUCTURAL DETAILS

PROJECT NO: 1107994	DRAWING NO: SM300	REV. # A
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R2024.1

11x17 Titleblock

General Fastening Schedules For Paneling, Sheathing & Trims

Fastening Schedule			Fastener		Spacing Of Fasteners O/C ("P" = Perimeter) ("F" = Field)					
Size	Description	Comments	Size	Type	Floor		Wall/ Partition		Roof	
					"P"	"F"	"P"	"F"	"P"	"F"
3/8"	OSB/ Plywood		1/2" x 1-3/4"	44G Bab Staple	4	8	4	8	3	6
3/8"	Plywood Underlay (Top Layer)	Double Flooring	1/2" x 1-3/4"	44G Bab Staple	4	8				
7/16"	OSB		1/2" x 1-3/4"	44G Bab Staple	4	8	4	8	4	12
1/2"	OSB/ Plywood (Bottom Layer)		1/2" x 1-3/4"	44G Bab Staple	4	8	4	8		
7/16"	OSB (Bottom Layer)		#8 x 1-3/4"	Low Root Wood Screw					3	6
5/8"	T & G Plywood		1/2" x 2-1/2"	63G Bab Staple	4	8				
5/8"	T & G Plywood		#8 x 1-3/4"	Low Root Wood Screw	16	16			6	12
3/4"	T & G Plywood		1/2" x 2-1/2"	63G Bab Staple	4	8				
3/4"	T & G Plywood		#8 x 1-3/4"	Low Root Wood Screw	16	16			6	12
1-1/8"	T & G Plywood	Fastening To Metal Floor Joist	8d Ring Shank	Hardened Nail	6	6				
1-1/8"	T & G Plywood	Fastening To Metal Floor Joist	#12 x 24 x 2-1/2" Screw	Self-Drilling Metal Screw	6	6				
3/8"	V.C. Drywall		1" x 1-1/4"	31G Bab Staple			8			
3/8"	V.C. Drywall		1-1/4"	Foam Adhesive				24		
1/2"	Plain Drywall		#6 x 1-1/4"	Drywall Screw			12	12		
1/2"	Plain Drywall		1-1/4"	Drywall Screw					12	12
1/2"	V.C. Drywall		1" x 1-1/2"	38G Bab Staple			8		8	
1/2"	V.C. Drywall		#6 x 1-5/8"	Foam Adhesive						24
5/8"	Plain Drywall		#6 x 1-5/8"	Drywall Screw			12	12	12	12
5/8"	V.C. Drywall		1" x 1-1/2"	38G Bab Staple			8		8	
5/8"	V.C. Drywall		3/8" Continuous Bead	Adhesive			Dbt Bead	Sgl Bead		
3/8"	FRP Board		1/2" x 1-1/4"	31G Bab Staple			10		10	
3/8"	FRP Board		1/4" x 1"	NYLON Tap Ins.				24		24
5.2mm	Luan Paneling	Stud 16" On Center	7/32" x 1"	351G Bab Brown Staple			6	12		
3.2mm	Luan Paneling	Stud 16" On Center	7/32" x 5/8"	355/ 8G Brown Staple			6	12		
1/4"	V.C. Luan Paneling	Stud 16" On Center	7/32" x 1"	351G Bab White Staple			4		4	
1/4"	V.C. Luan Paneling	Stud 16" On Center	1-1/4"	Foam Adhesive				24		24
1/2"	Ceiling Board	Roof Joist 16" On Center	1-1/4" x 1"	31G Bab Staple					6	12
1/2"	Inner Seal	Stud 16" On Center	.0915" x 2-1/8"	EC22 ASB Hot Nail			6	12		
1/2"	Inner Seal	Stud 16" On Center	1-1/4"	RD 504 Nail						
30 Ga.	Roof Edge		1/2" x 1-1/2"	38G Bab Staple						2
	Termination Bar		#8 x 1-1/4"	Pan Head Screw						6
	Batten/ Baseboard/ Casing		.072" x 2"	DA21 EPDN Nail			12			
1/2"	Canvex/ Bottom Board		1-1/4" x 1"	31G Bab Staple	3					
7/16"	Smartside Panel Siding		.090" x 2"	C6R90BDG Nail			6	12		
28 Ga.	Low Rib Siding		#9 x 1-1/2"	Wood Screw				12		
28 Ga.	Low Rib Siding		#14 x 7/8"	Lap Screw			12			

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General Fastening Schedules For Studs

Stud Size	Stud Location	Floor Qty.	Walls Qty.	Partition Qty.	Roof Qty.	Size Of Nail or Staple	Type	Comments
2x4	To Plate	3	3	3	3	.131 x 3 1/4"	S12D131 Nail	Min. 3/4" Edge Of Plate
2x6	To Plate	3	3	3	3			
2x8	To Plate	4	3	-	3			
2x10	To Plate	4	-	-	3			
2x12	To Plate	5	-	-	4			
(*) 2x_	To 2x_	16" STGRD	16" STGRD	16" STGRD	16" STGRD	.131 x 3 1/4"	S12D131 Nail	Double or Triple Plates, Studs, Joist, Cripples
2x4	Headers	-	12" On Center STGRD	12" On Center STGRD	-	.131 x 3 1/4"	S12D131 Nail	Headers Are End Nailed Through Stud W/ Qty.5 Nails (.131 x 3-1/4") Each End
2x6	Headers	-	"	"	-			"
2x8	Headers	-	"	"	-			"
2x10	Headers	-	"	"	-			"
2x4 / 2x6	Wall To	1 Per 4'	16" On Center	16" On Center	1 Per 4'	#8 x 3-1/2"	Woodscrew	Stud At 16" or 24" On Center
2x4 / 2x6	Wall To	2/ Stud Space			2/ Stud Space	.131 x 3 1/4"	S12D131 Nail	
2x4 / 2x6	Partition To	16" On Center	16" On Center	16" On Center	16" On Center	.131 x 2-1/2"		
-	Sealtite BTM Sheathing	8" On Center	-	-	-	31G BAB	Staple	
-	Wall Blocking To Stud	1" On Center				38G BAB	Staple	Stitch On Surface

- (*) Inter Connection Of All Sizes Of Multiple Members Are To Follow The Inter Connections As Listed Above (In 2x4 To 2x4)
- Wood To Wood Adhesives Should Meet AFG-10 Regulations
- Wall Boarding Adhesives Should Meet ASTM C557 Requirements
- Staples Shall Be 16 Gauge or Heavier As Required

NOTES:
 • FASTENING SHALL BE AS PER ABOVE UNLESS NOTED OTHERWISE ON DRAWINGS



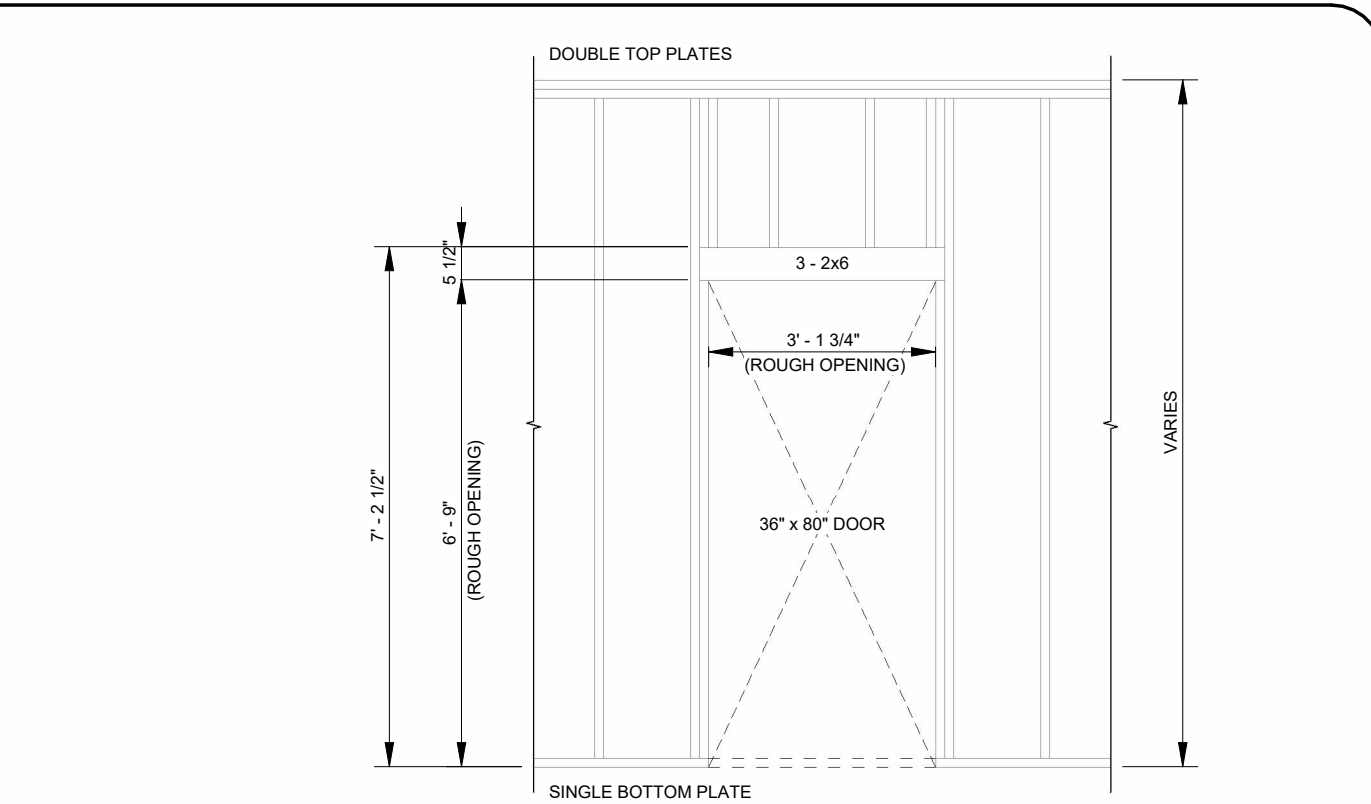
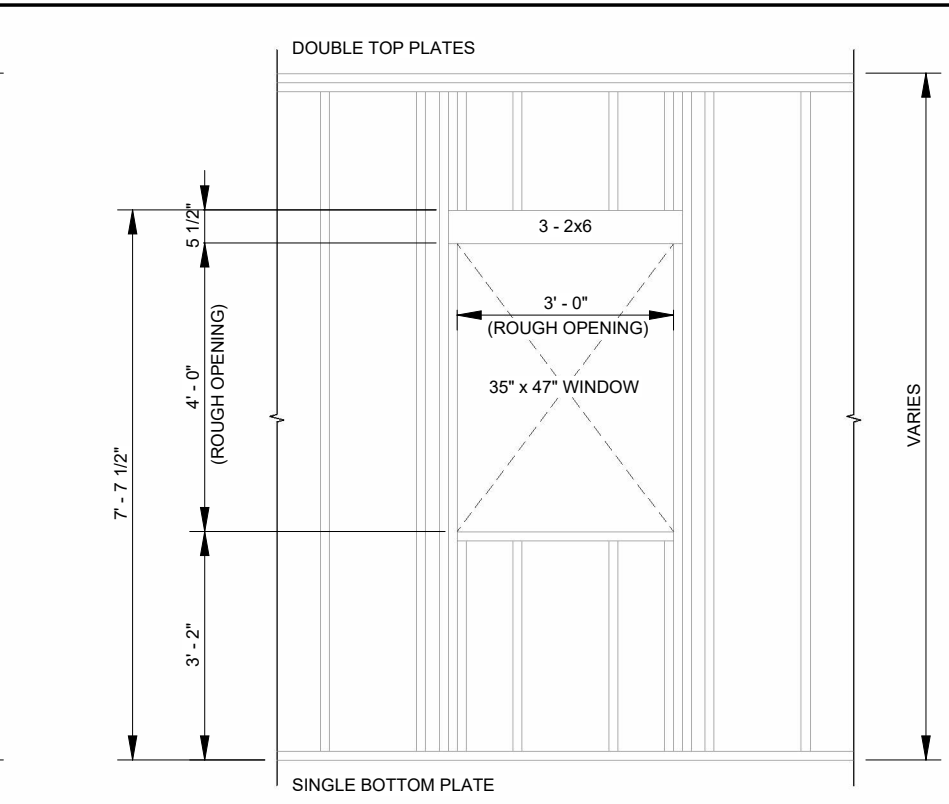
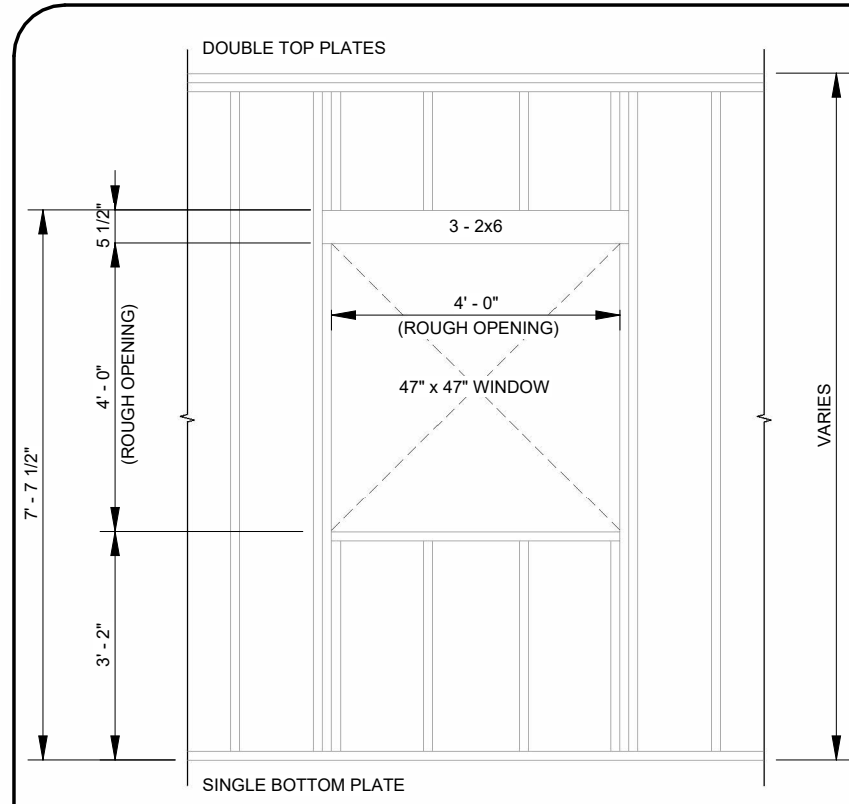
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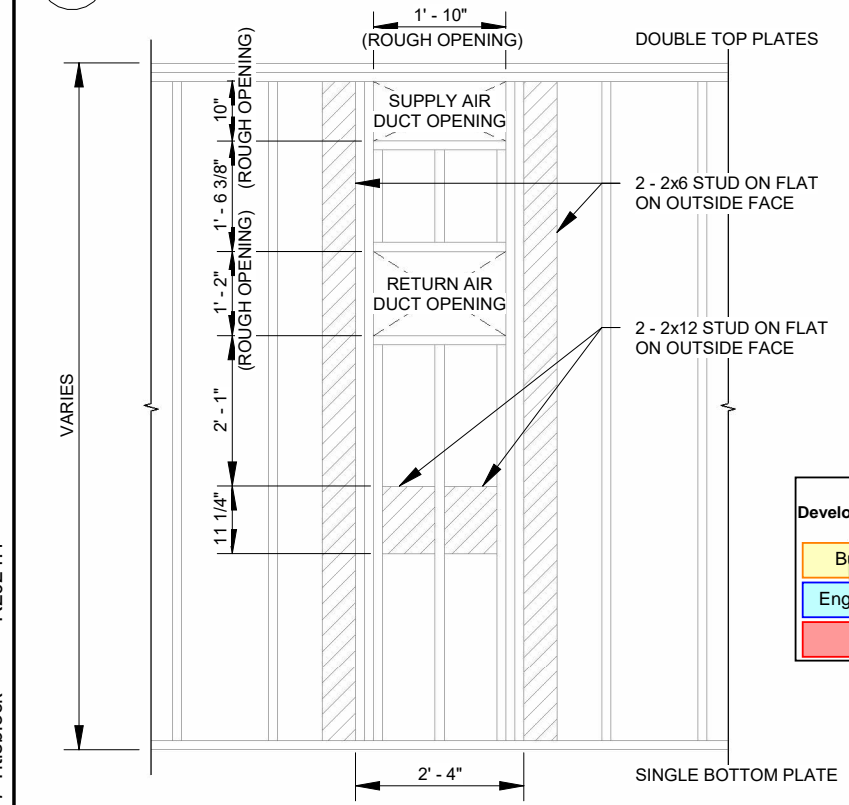
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REV.	DATE	DESCRIPTION	BY
			CHK/APR

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CLIENT: CASCADE CHRISTIAN SCHOOL	PROJECT NO: 1107994	DRAWING NO: SM301	REV. # A	



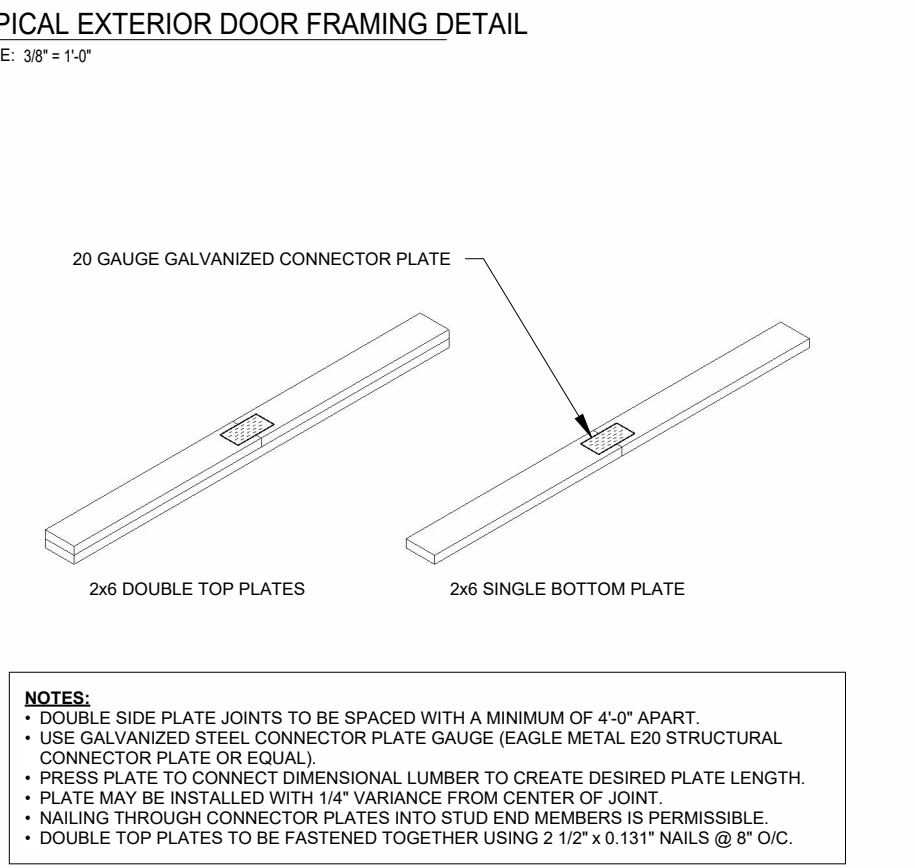
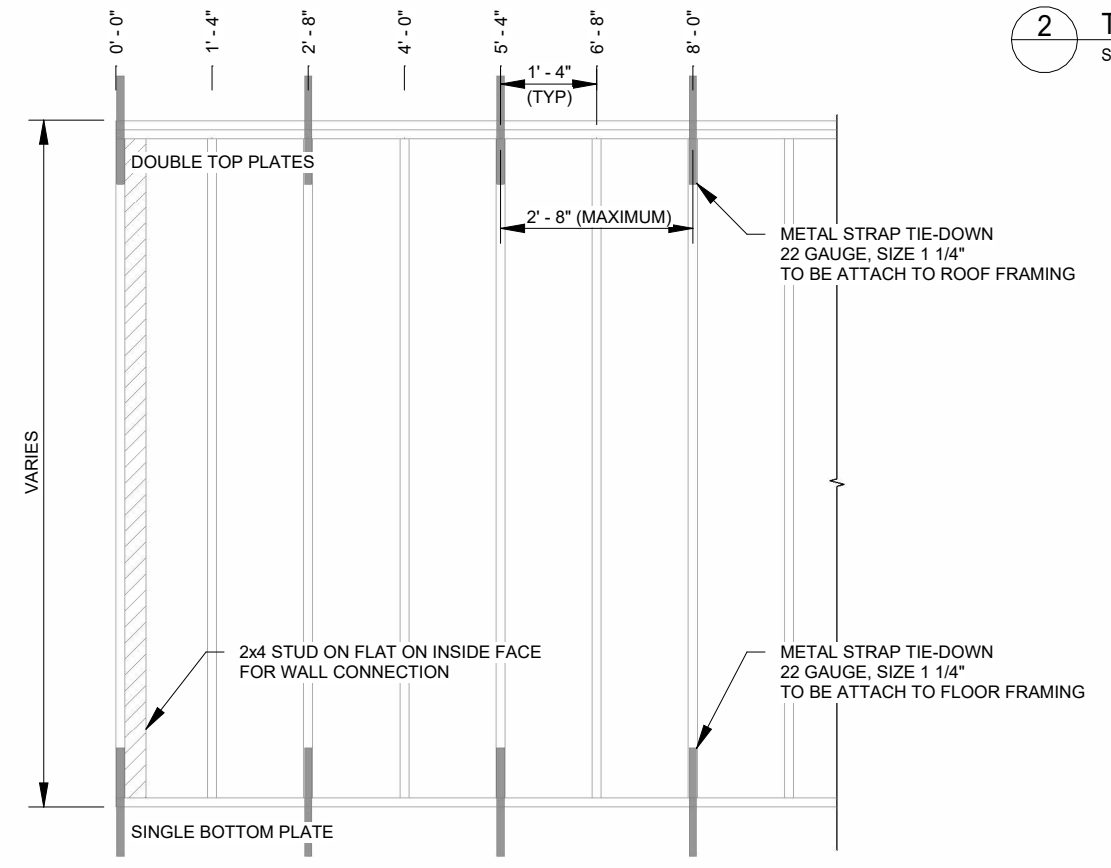
1 TYPICAL WINDOW FRAMING DETAIL
SCALE: 3/8" = 1'-0"

2 TYPICAL EXTERIOR DOOR FRAMING DETAIL
SCALE: 3/8" = 1'-0"



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- NOTES:**
- DOUBLE SIDE PLATE JOINTS TO BE SPACED WITH A MINIMUM OF 4'-0" APART.
 - USE GALVANIZED STEEL CONNECTOR PLATE GAUGE (EAGLE METAL E20 STRUCTURAL CONNECTOR PLATE OR EQUAL).
 - PRESS PLATE TO CONNECT DIMENSIONAL LUMBER TO CREATE DESIRED PLATE LENGTH.
 - PLATE MAY BE INSTALLED WITH 1/4" VARIANCE FROM CENTER OF JOINT.
 - NAILING THROUGH CONNECTOR PLATES INTO STUD END MEMBERS IS PERMISSIBLE.
 - DOUBLE TOP PLATES TO BE FASTENED TOGETHER USING 2 1/2" x 0.131" NAILS @ 8" O/C.

3 TYPICAL END WALL FRAMING DETAIL - BARD
SCALE: 3/8" = 1'-0"

4 TYPICAL EXTERIOR WALL FRAMING DETAIL
SCALE: 3/8" = 1'-0"

5 TYPICAL LUMBER CONNECTION DETAIL
SCALE: 3/8" = 1'-0"



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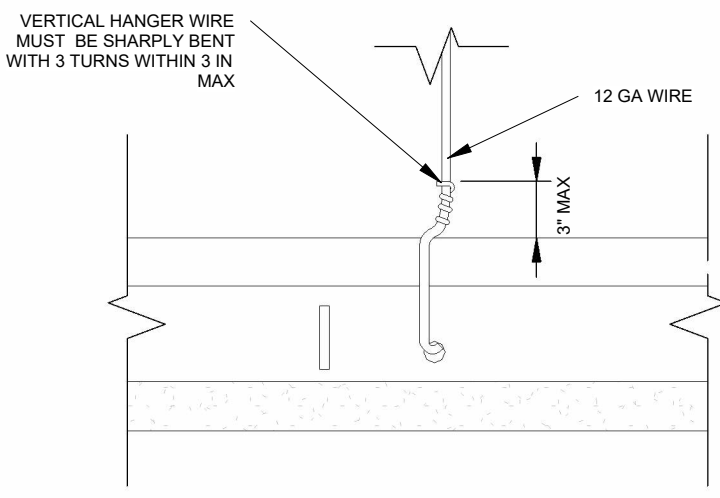
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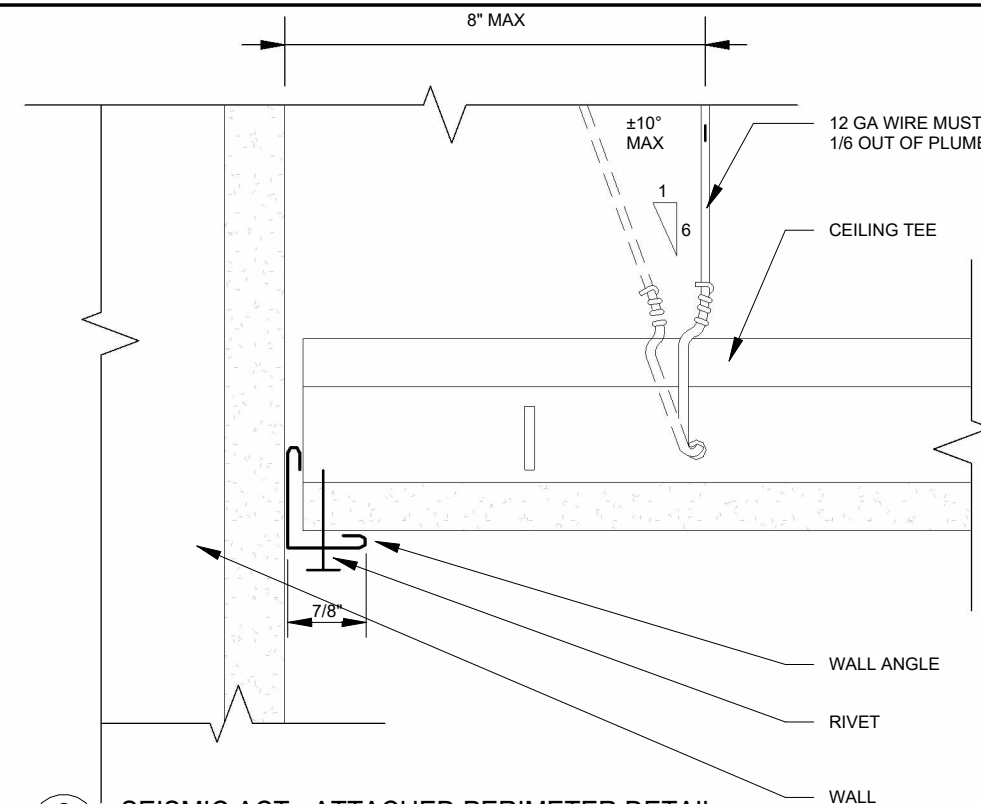
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CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: EXTERIOR STRUCTURAL DETAILS		
PROJECT NO: 1107994	DRAWING NO: SM302	REV. # A

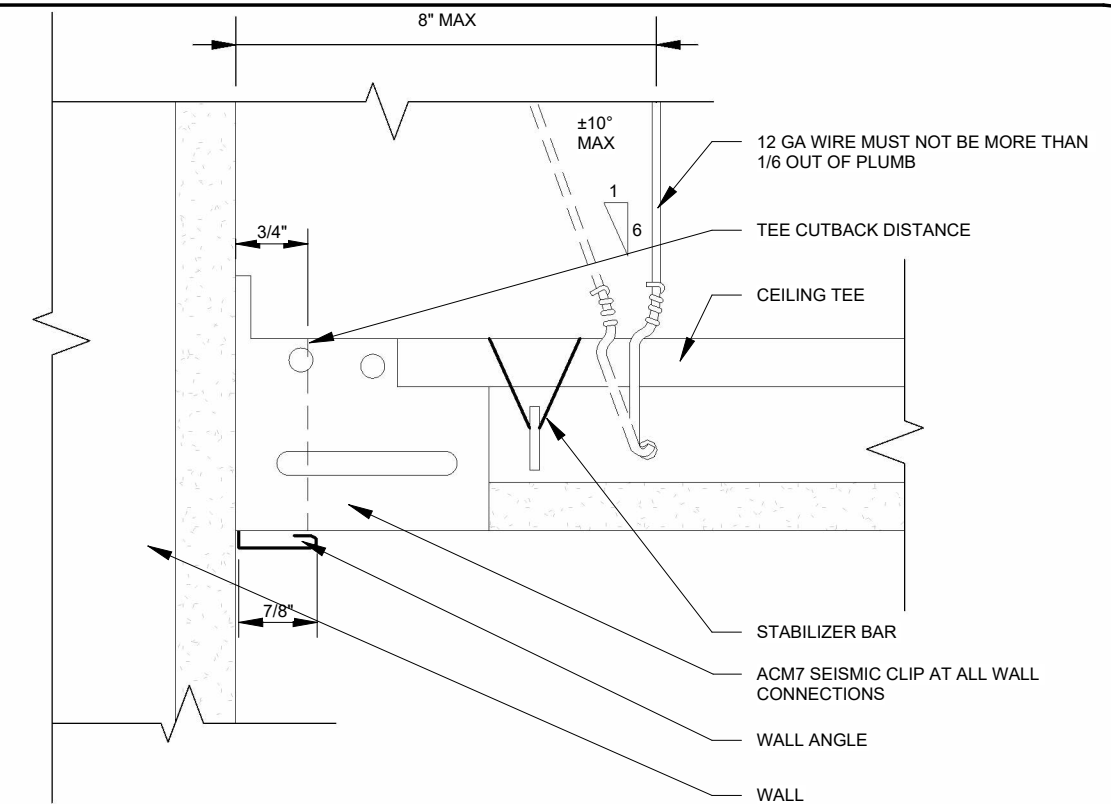
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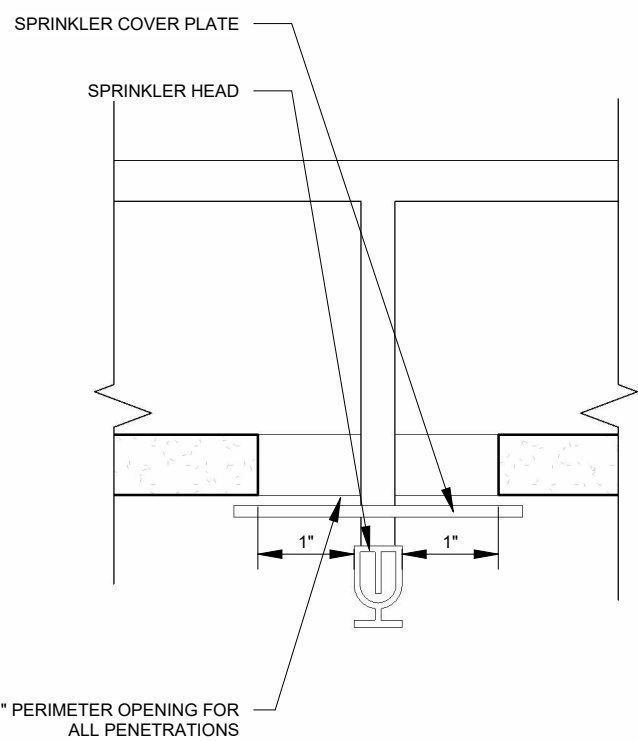
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SCALE: 6" = 1'-0"



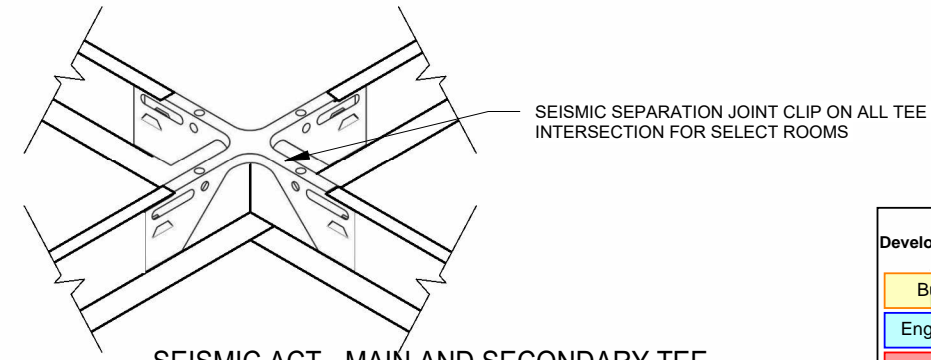
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SCALE: 6" = 1'-0"



3 SEISMIC ACT - DETACHED PERIMETER DETAIL
SCALE: 6" = 1'-0"



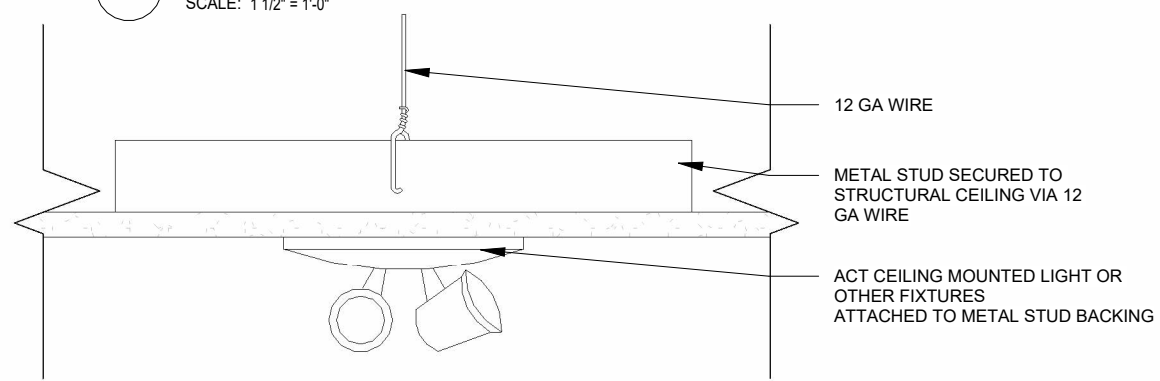
4 SEISMIC ACT - PENETRATIONS OFFSET DETAIL
SCALE: 6" = 1'-0"



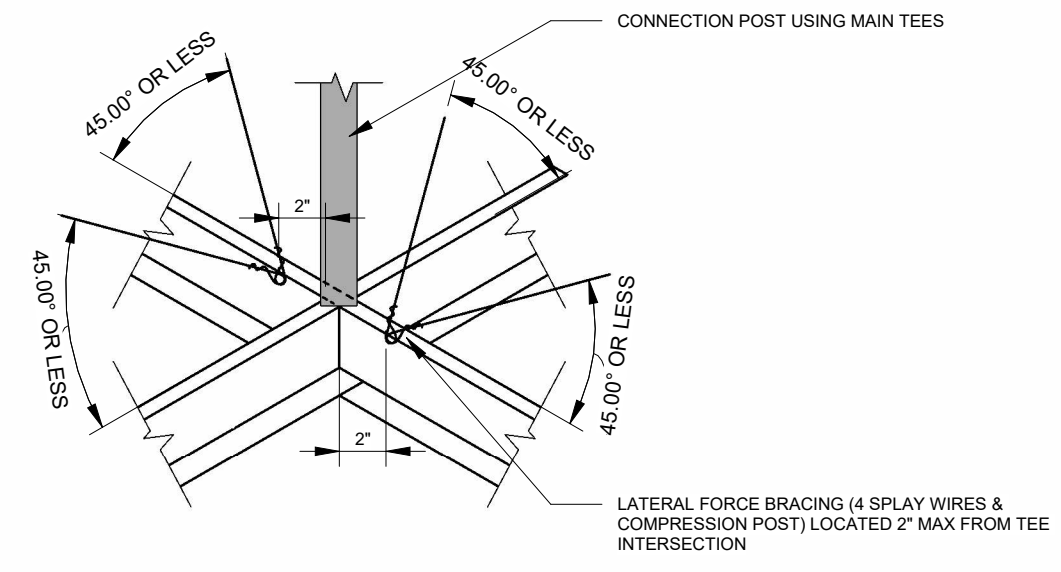
5 SEISMIC ACT - MAIN AND SECONDARY TEE CONNECTION
SCALE: 1 1/2" = 1'-0"

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6 SEISMIC ACT - EMERGENCY LIGHT & SIGN BACKING
SCALE: 3" = 1'-0"



7 SEISMIC ACT - LATERAL FORCE BRACING
SCALE: 1 1/2" = 1'-0"

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PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH		DRAWING TITLE:	EXTERIOR STRUCTURAL DETAILS			
CLIENT:	CASCADE CHRISTIAN SCHOOL	PROJECT NO:	1107994	DRAWING NO:	SM303	REV. #	A

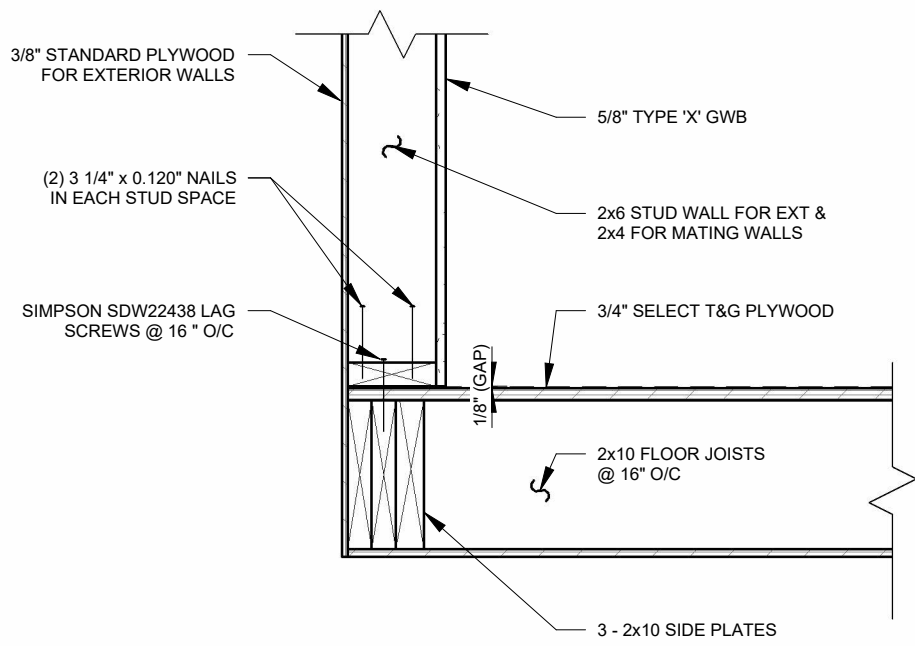
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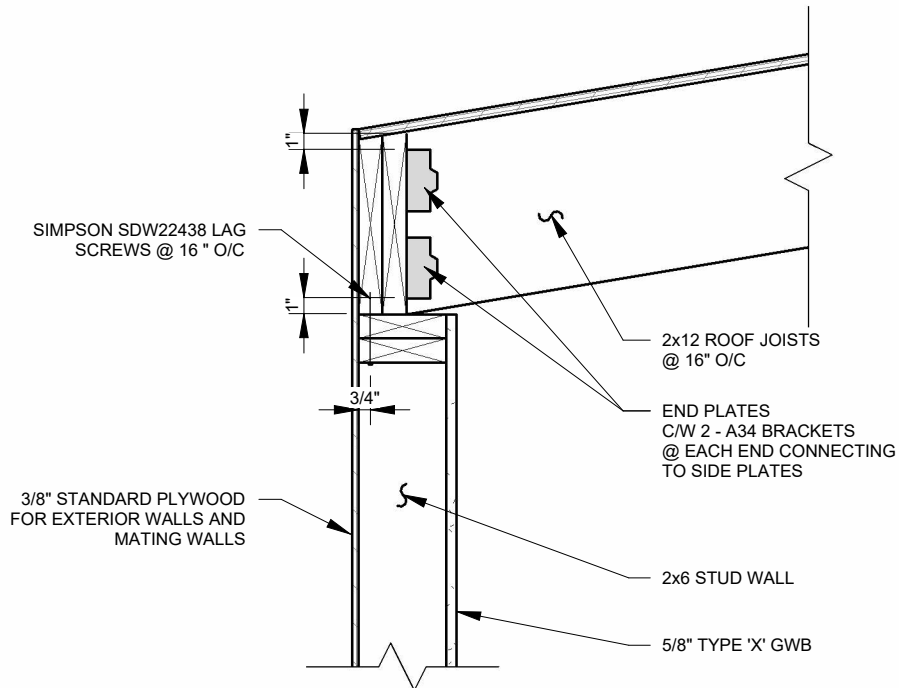
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NOTES: FABRICATION

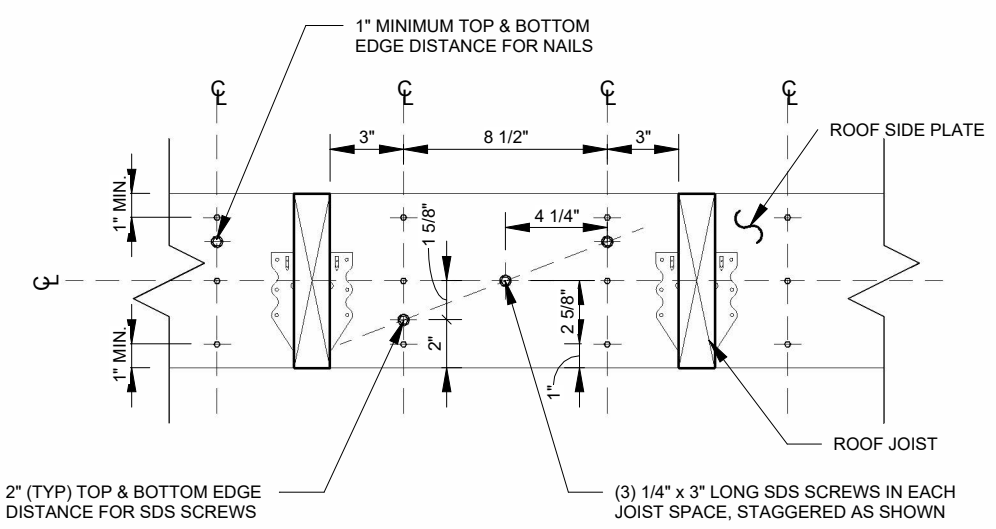
- LAG SCREW HEAD TO ENGAGE BOTTOM PLATE
- WATCH FOR BOTTOM PLATE LIFT DURING INSTALLATION



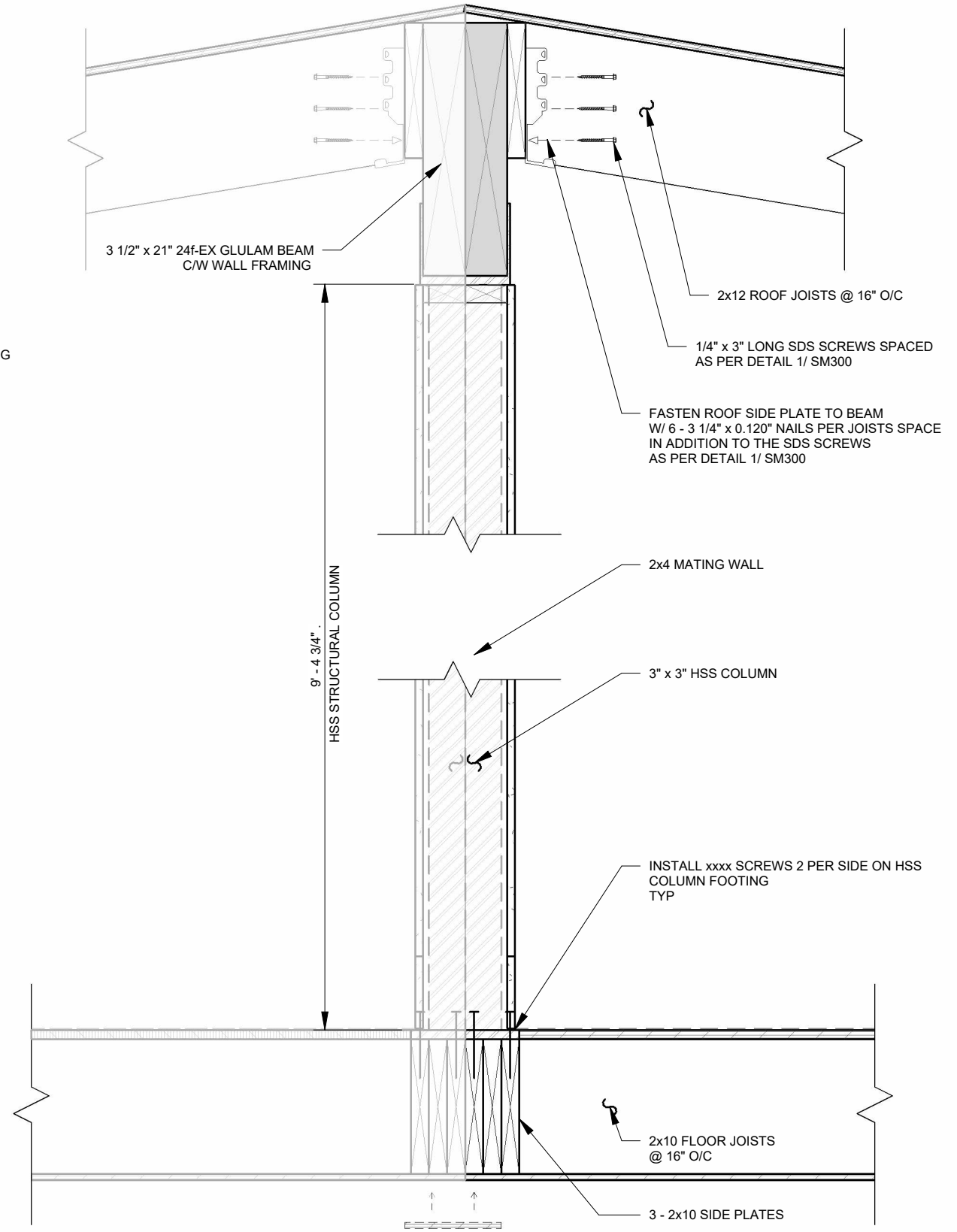
1 TYPICAL FLOOR CONNECTION DETAIL
SCALE: 1" = 1'-0"



2 TYPICAL ROOF CONNECTION DETAIL @ LONG WALL
SCALE: 1" = 1'-0"



3 ROOF SIDE PLATE FASTENING DETAIL
SCALE: 1 1/2" = 1'-0"



4 TYPICAL BEAM/COLUMN CONNECTION DETAIL
SCALE: 1" = 1'-0"

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PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH

CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: EXTERIOR STRUCTURAL DETAILS

PROJECT NO: 1107994

DRAWING NO: SM304

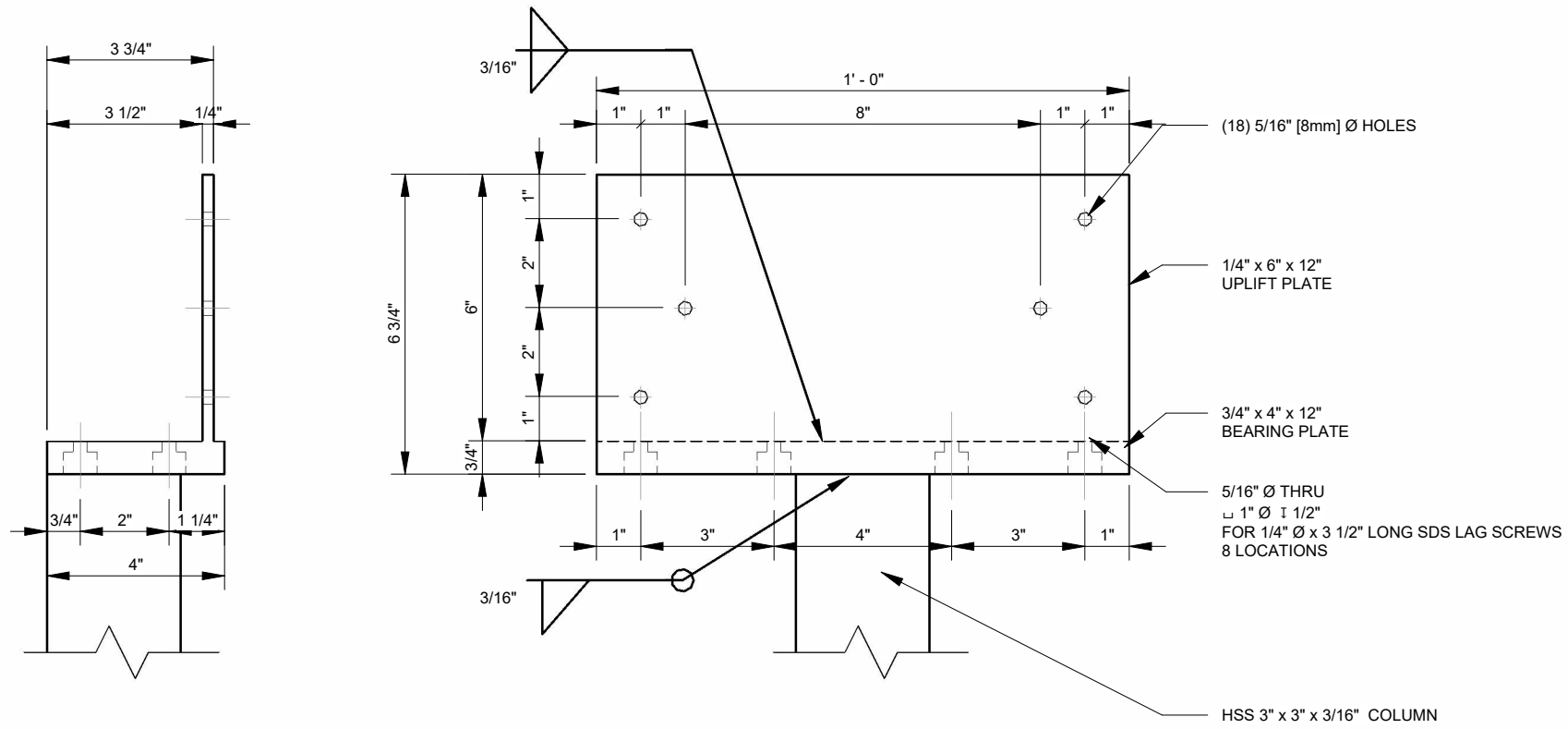
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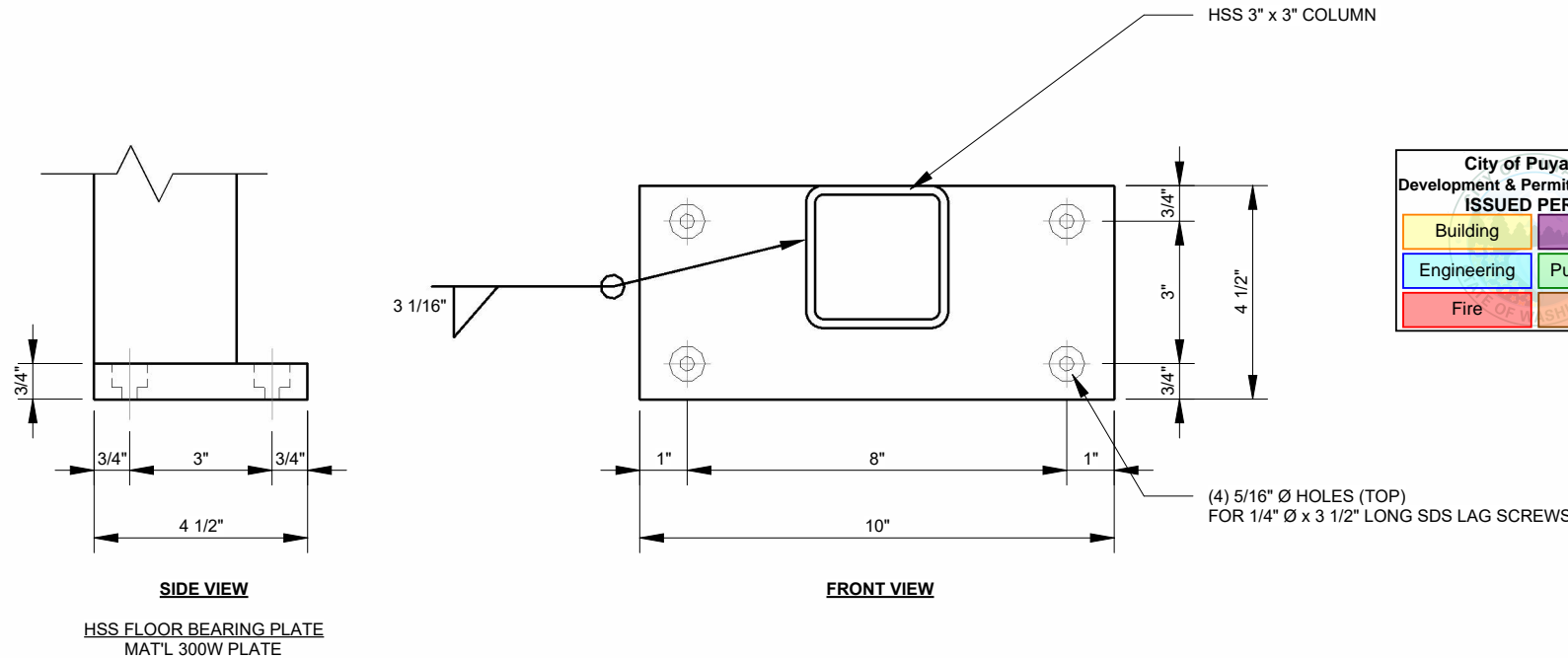
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1 HSS COLUMN BEAM CAP
SCALE: 3" = 1'-0"

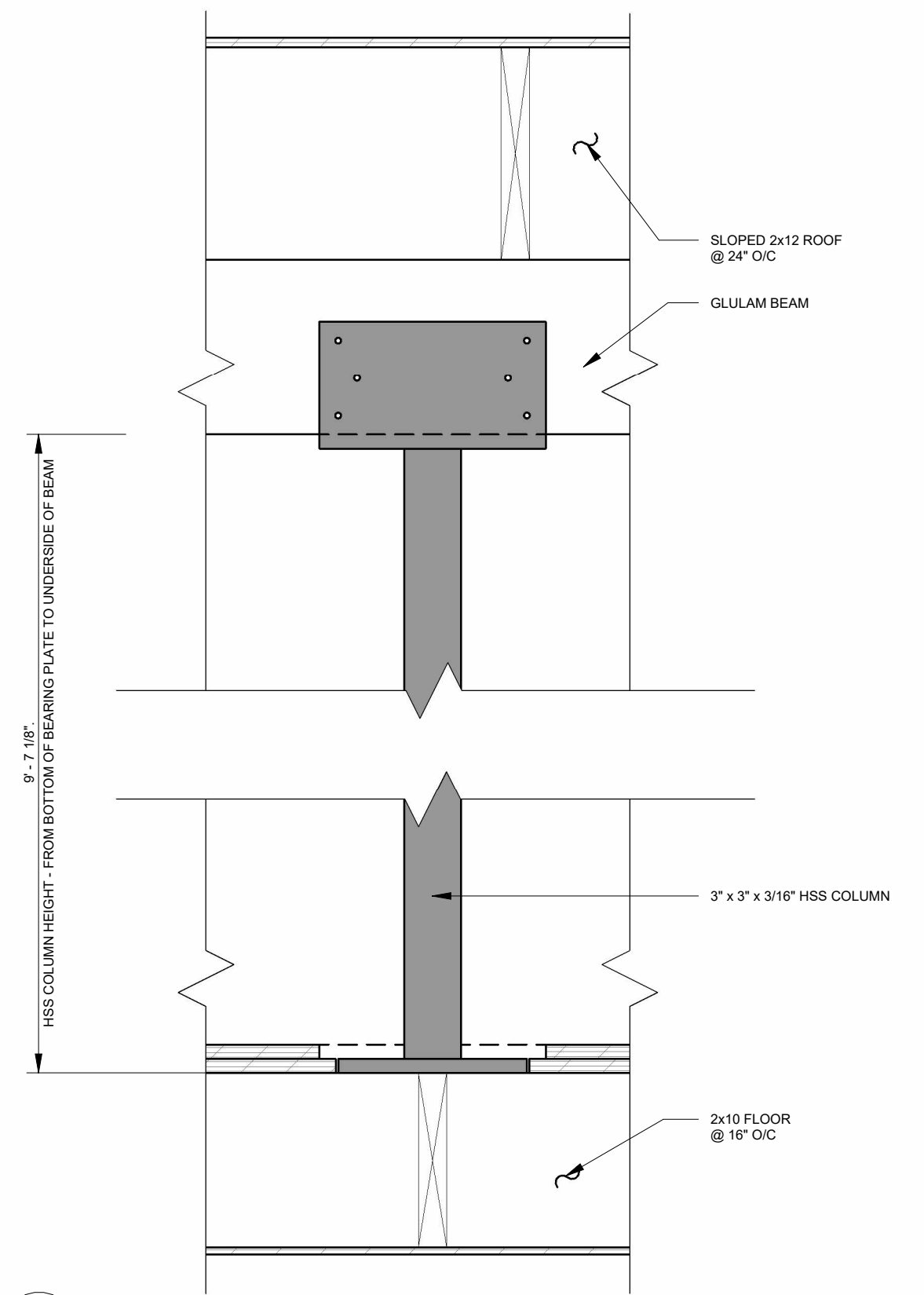


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Fire	Traffic

QUANTITY OF COLUMNS:
-2 PER COMPLEX

2 HSS COLUMN FLOOR BEARING PLATE
SCALE: 3" = 1'-0"



3 HSS COLUMN CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"



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PROJECT:
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OFFICE WASH
CLIENT:
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DRAWING TITLE:
STEEL FABRICATION DETAILS
PROJECT NO:
1107994
DRAWING NO:
SM500
REV. #
A