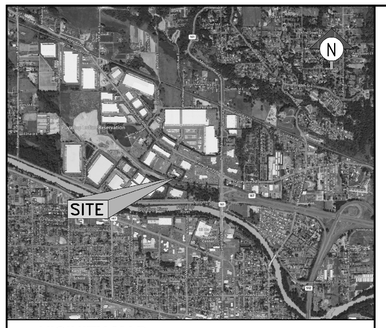

VICINITY MAP 1" = 2,000'

1. READ PERMIT CONDITIONS
2. Separate Permits required for Fire Alarm & Fire Sprinkler
3. Emergency Radio Testing Required
4. EXIT & Emergency Lighting Test Required

Read Permit Conditions prior to calling for inspection.

FREEZER EXPANSION
COASTAL PACIFIC FOOD DISTRIBUTORS
PUYALLUP, WASHINGTON 98371

City of Puyallup Development Engineering APPROVED
See permit for additional requirements.
Linda Lian
05/28/2024
11:24:18 AM

In accordance to Puyallup Municipal Code 14.02.220(3) this project is required to install a double derezcor check valve assembly (DDCVA). Building occupancy will not be granted until the installation is completed and a final approval granted.

Occupancy will not be granted until all work associated with Civil Permit PRCCP20240381 has been completed and a final inspection granted

Roof downspout control is required. Steps shall be taken to prevent drainage onto adjacent lots. See civil permit PRCCP20240381 for specifications

Sediment control and erosion procedures shall be practiced eliminating and preventing off site damage. Stormwater runoff originating upgrade of exposed areas shall be controlled to reduce erosion and sediment loss during the period of exposure. See civil permit PRCCP20240381 for specifications

TRASH ENCLOSURE REQUIRES A SEPARTE BUILDING PERMIT

* Trash enclosure will adhere to City Standard 208 Pollution Prevention
** The floor of the trash enclosure shall slope towards the point of sanitary sewer floor drain. The interior Type 1 Catch Basin drains to the onsite sewer system See civil permit PRCCP20231136
*** A grade break shall be provided around the trash enclosure to prevent runoff from entering the enclosure

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L4.00	PLANTING DETAILS
L4.01	IRRIGATION DETAILS

RICHARD MARC EWING — STATE OF WASHINGTON — 23001613 — REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

MATTHEW MASON MORGAN — STATE OF WASHINGTON — 23000482 — REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

22038278 — REGISTERED ARCHITECT — LAYNE S. BYNUM — STATE OF WASHINGTON
28 JUN 2024

MATTHEW R. SMITH — STATE OF WASHINGTON — 23017421 — REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

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

City of Puyallup Building REVIEWED FOR COMPLIANCE
BSnowden
07/01/2024
11:17:25 AM

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

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

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

PRCA20240398

CONTACT INFORMATION

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PUYALLUP, WA 98371

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REPUBLIC REFRIGERATION
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MONROE, NC 28110
PHONE: (704) 282-0399
www.republicrefrigeration.com
ENGINEER: JUSTIN MCSWAIN
EMAIL: justinm@republicrefrigeration.com

REV	DESCRIPTION	DATE	BY
	OWNER REVIEW	21 JUL 23	GTB
	30% PRICING SET	28 JUL 23	CAS
	90% PRICING SET	29 JAN 24	CAS
A	ISSUED FOR PERMIT	06 MAR 24	CAS
	ISSUED FOR PERMIT	15 MAY 24	CAS
B	ISSUED FOR PERMIT	28 JUN 24	CAS

ENGINEERS / ARCHITECTS
1942 NORTHWOOD DRIVE, SALISBURY, MARYLAND 21801-7824
PH: (410) 742-7299 FAX: (410) 742-0273

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AWB ENGINEERS

CPFD

WHITING-TURNER

COVER SHEET

FREEZER EXPANSION
PUYALLUP, WASHINGTON

SCALE
DRAWN GTB
PROJ.MGR. MRS
JOB 221205
SHEET G-001

6/28/2024 6:27:43 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt

PRCA20240398

DIVISION 1 - GENERAL REQUIREMENTS

PROJECT DATA

PROJECT SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS OF ALL GOVERNING CODES, STANDARDS, REGULATIONS, AND LOCAL AUTHORITIES, INCLUDING BUT NOT LIMITED TO THE 2018 WASHINGTON STATE BUILDING CODE, 2018 WASHINGTON STATE FIRE CODE AND 2018 WASHINGTON STATE ENERGY CODE

CONSTRUCTION CLASSIFICATION: (EXISTING TO REMAIN)
TYPE II-B (§602.2)

OCCUPANCY CLASSIFICATIONS: (EXISTING TO REMAIN)
GROUP B - BUSINESS (§304.1)
GROUP S-1 - MODERATE HAZARD STORAGE (§311.2)
NON-SEPARATED, MIXED USE (§508.3)

SPRINKLER SYSTEM: FULLY SPRINKLERED SYSTEM COMPLYING WITH NFPA 13.

BUILDING AREA: 19,873 SQ.FT. (EXISTING)
43,743 SQ.FT. (PROPOSED ADDITION)
63,616 SQ.FT. (TOTAL)

BUILDING HEIGHT: 45.08 FT. - 1 STORY

ALLOWABLE AREA: 70,000 SQ.FT./STORY (T506.2)

ALLOWABLE HEIGHT: 75.00 FT. - 3 STORIES (T504.3 & T504.4)

BUILDING ELEMENT FIRE RESISTANCE RATINGS: 0 HOURS (T601 & T602)

OCCUPANCY LOAD (T1004.5):
BUSINESS AREA: 4,147 SQ.FT. / 150 SQ.FT. = 28 OCCUPANTS
STORAGE AREA: 59,469 SQ.FT. / 500 SQ.FT. = 119 OCCUPANTS
TOTAL: = 147 OCCUPANTS

MINIMUM PLUMBING FIXTURES (§2902.1, T2902.1, & §2902.5.1):
GROUP B (MALE/FEMALE OCCUPANT LOAD = 14 EACH):
WATER CLOSETS = 1 MALE - 1 FEMALE
LAVATORIES = 1 MALE - 1 FEMALE

GROUPS S-1 (MALE/FEMALE OCCUPANT LOAD = 60 EACH):
WATER CLOSETS = 1 MALE - 1 FEMALE
LAVATORIES = 1 MALE - 1 FEMALE

DRINKING FOUNTAINS = 1
SERVICE SINKS = 1

EXIT ACCESS TRAVEL DISTANCE (T1017.2):
GROUP B: 300 FT.
GROUPS S-1: 250 FT.

EXIT/EXIT ACCESS SEPARATION: 1/3 MAXIMUM DIAGONAL DIMENSION (§1007.1.1-EXC. 2)

COMMON PATH OF TRAVEL: 100 FT. (T1006.2.1)

DEAD END CORRIDOR: 50 FT. (§1020.4-EXC. 2)

FIRE EXTINGUISHERS: 75 FT. MAXIMUM TRAVEL DISTANCE (T906.3(1))

ENVELOPE ENERGY CODE COMPLIANCE PATH: PRESCRIPTIVE BASIS PER 2018 WASHINGTON STATE ENERGY CODE - COMMERCIAL REQUIREMENTS (NOTE: FIRE PUMP BUILDING FIRE RISER THERMAL ENVELOPES EXEMPT FROM CODE PROVISIONS PER §C402.1.2)

HIGH-PILED COMBUSTIBLE STORAGE (2018 WASHINGTON STATE FIRE CODE - §3203 & T3206.2):
COMMODITY CLASS: I/IV
STORAGE AREA: 12,001-500,00 SQ.FT.
FIRE EXTINGUISHING SYSTEM: REQUIRED
FIRE DETECTION SYSTEM: NOT REQUIRED
FIRE DEPT. ACCESS DOORS: REQUIRED
SMOKE & HEAT REMOVAL: NOT REQUIRED (AREAS TO BE PROTECTED BY ESFR SPRINKLER SYSTEM)

GENERAL NOTES

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND FIELD CONDITIONS ON THE DRAWINGS AND IN THE FIELD PRIOR TO STARTING CONSTRUCTION AND FABRICATION.

ALL PRODUCTS AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS AND IN ACCORDANCE WITH APPLICABLE CONSTRUCTION INDUSTRY STANDARDS.

CONTRACTOR SHALL SUBMIT SUPPORTING DOCUMENTATION TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL FOR ALL PRODUCTS AND MATERIALS PROPOSED BY THE CONTRACTOR TO BE EQUAL TO THOSE SPECIFIED IN THESE DOCUMENTS.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS ASSOCIATED WITH ALL BUILDING PERMITTING AND ALL SOILS, CONCRETE, AND METAL STRUCTURE TESTING AND INSPECTIONS REQUIRED DURING CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROJECT MANAGEMENT AND SUPERVISION AND SHALL PROVIDE THE NECESSARY TEMPORARY FACILITIES AND CONTROLS REQUIRED FOR CONSTRUCTION.

CONTRACTOR SHALL VERIFY ALL OPENING SIZES AND LOCATIONS WITH THE REQUIREMENTS OF OTHER TRADES PRIOR TO FABRICATION AND ERECTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING, FURNISHING, ERECTING, AND REMOVING ANY TEMPORARY SHORING AND BRACING DURING CONSTRUCTION.

CONTRACTOR SHALL PROTECT FROM DAMAGES EXISTING BUILDING(S), OWNER EQUIPMENT, ROADS, WALKS, AND UTILITIES. CONTRACTOR SHALL MAINTAIN THESE DURING THE COURSE OF THE WORK, AND SHALL REPAIR ALL DAMAGES AT NO ADDITIONAL EXPENSE TO THE OWNER.

CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING DEMOLISHED MATERIALS FROM THE PROJECT SITE AND FOR PROVIDING PROPER AND LEGAL DISPOSAL OF SUCH MATERIALS.

ARCHITECTURAL DRAWINGS SHALL BE REFERENCED IN CONJUNCTION WITH THE SITE, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THE WORK OF ALL TRADES IS COORDINATED WITH ADJACENT WORK.

ARCHITECT AND ENGINEER SHALL BE NOTIFIED WHEN MATERIALS AND ASSEMBLIES ARE READY FOR OBSERVATION. SUFFICIENT NOTICE SHALL BE GIVEN BY THE CONTRACTOR TO ALLOW FOR SCHEDULING OF OBSERVATIONS.

SAFETY AND ENVIRONMENTAL REGULATIONS SHALL BE STRICTLY FOLLOWED BY THE CONTRACTOR AND SUBCONTRACTORS CONTINUOUSLY DURING ALL TIMES OF WORK ON THIS PROJECT AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, WARNING SIGNS, FLASHING LIGHTS, AND TRAFFIC CONTROL DEVICES DURING CONSTRUCTION.

THE ARCHITECT OR ENGINEER SHALL NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES; FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK; OR FOR ACTS OF OMISSION OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

CONTRACTOR SHALL COORDINATE THE SEQUENCING OF ALL WORK WITH OWNER SPECIFIED REQUIREMENTS IN ORDER TO MAINTAIN OPERATION OF THE EXISTING FACILITY DURING THE COURSE OF CONSTRUCTION.

ALL SPECIALTY BOLTS, INCLUDING EXPANSION TYPE AND EPOXY TYPE ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.

ALL CODES, STANDARDS, SPECIFICATIONS AND TECHNICAL NOTES REFERENCED IN THESE PROJECT SPECIFICATIONS SHALL BE THE LATEST EDITION OR SHALL BE THE EDITION INCORPORATED BY REFERENCE IN THE ADOPTED GOVERNING CODES OF THE AUTHORITY HAVING JURISDICTION, AS APPLICABLE.

"PROVIDE" SHALL BE INTERPRETED TO MEAN FURNISH AND INSTALL UNLESS OTHERWISE NOTED.

DESIGN LOADS - 2018 WASHINGTON STATE BUILDING CODE/ASCE 7-16

DEAD LOADS:
ROOF:
DEAD: 10 PSF
MECHANICAL: 15 PSF

LIVE LOADS:
ROOF: 20 PSF

WIND LOADS:
BASIC WIND SPEED: 98 MPH
EXPOSURE CATEGORY: C
IMPORTANCE FACTOR: 1.0
JOIST UPLIFT: 10 PSF

SNOW LOADS:
GROUND SNOW LOAD: 20 PSF
FLAT ROOF SNOW LOAD: 20 PSF
SNOW EXPOSURE FACTOR: 1.0
SNOW IMPORTANCE FACTOR: 1.0
THERMAL FACTOR: 1.3

EARTHQUAKE LOADS:
RISK CATEGORY: II
IMPORTANCE FACTOR: 1.0
SDS = 0.847
SD1 = 0.820
SITE CLASS: D
SEISMIC DESIGN CATEGORY: D

DIVISION 2 - SITE CONSTRUCTION

GENERAL NOTES

CONTRACTOR SHALL VERIFY THE LOCATION AND INVERT ELEVATION OF ALL UNDERGROUND UTILITIES. AND VERIFY PROPERTY CORNERS AND TOPOGRAPHY BEFORE ANY CONSTRUCTION IS BEGUN.

CONTRACTOR SHALL INCLUDE COST OF ALL CUT AND FILL NECESSARY TO ESTABLISH THE INDICATED GRADES AND COST OF ALL WETTING OR DRYING OF SOILS NECESSARY TO ACHIEVE COMPACTION PER SPECIFICATIONS.

CONTRACTOR SHALL PROVIDE ALL MOISTURE CONTROL AT THE SITE INCLUDING DUST CONTROL, WETTING OR DRYING OF SOILS, AND PUMPING OF GROUNDWATER OUT FOR FOUNDATIONS, FOOTINGS, OR UTILITY TRENCHES.

CONCRETE WALKS SHALL CONSIST OF FOUR-INCH THICK, 4,000 PSI CONCRETE SLABS REINFORCED WITH 6x6-W1.4xW1.4 W.W.M. OVER TWO INCHES OF SAND AND COMPACTED SUBSOIL.

ALL EXTERIOR CONCRETE SHALL HAVE FIVE (5) PERCENT ENTRAINED AIR. PLUS OR MINUS ONE (1) PERCENT. PLACE CONTROL JOINTS IN EXTERIOR CONCRETE AT ALL RE-ENTRANT CORNERS AND AT NO MORE THAN 20 FEET CENTERS. CONCRETE PANELS SHALL NOT EXCEED A LENGTH-TO-WIDTH RATIO OF 2:1.

REFER TO CIVIL SITE PLAN DRAWINGS FOR ADDITIONAL SITE-RELATED SPECIFICATIONS.

EARTHWORK/FOUNDATIONS

THE SOIL BEARING CAPACITY IS ASSUMED TO BE 3,000 PSF AND IS BASED ON THE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL ENGINEERING REPORT NO. 21044-001-SP PREPARED BY GEOPACIFIC ENGINEERS, INC., DATED JANUARY 5, 2024. IF SOIL OF THIS CAPACITY IS NOT ENCOUNTERED AT THE ELEVATIONS SHOWN, NOTIFY THE ENGINEER BEFORE PROCEEDING WITH WORK.

ALL CONCRETE FOR FOOTINGS SHALL BE CAST ON THE SAME DAY THAT EXCAVATIONS ARE MADE TO THE FINAL GRADE.

PLACE FOOTINGS ON DRY, NON-FROZEN, UNDISTURBED "VIRGIN" SOIL OR COMPACTED FILL. REMOVE ORGANIC SOILS ENCOUNTERED DURING EXCAVATION. BACKFILL EXCAVATIONS AND AREAS REQUIRING STRUCTURAL FILL WITH CLEAN, MOIST, GRANULAR SOIL.

STRUCTURAL FILL SHOULD BE PLACED IN LIFTS WHICH ARE EIGHT (8) INCHES OR LESS IN LOOSE THICKNESS AND SHOULD BE COMPACTED TO AT LEAST NINETY-FIVE (95) PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557).

EXISTING SOILS CAN BE REUSED FOR STRUCTURAL FILL ONLY IF THEY ARE FREE OF ORGANIC MATTER, DEBRIS, AND EXCESSIVE MOISTURE. MATERIAL TO BE UTILIZED AS STRUCTURAL FILL SHOULD HAVE A PLASTICITY INDEX (PI) LESS THAN 20. ACCEPTABLE STRUCTURAL FILL MATERIAL SHOULD INCLUDE GW, GP, GM, SW, SP AND SM CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS).

THESE GUIDELINES SHOULD BE SET FOR ALL STRUCTURAL FILL AT THE SITE INCLUDING, BUT NOT LIMITED TO BUILDING, GROUND SLAB AND PAVEMENT FILLS.

TOPSOIL SHALL BE STRIPPED TO A DEPTH AS REQUIRED AND STOCKPILED.

DEWATERING

ALL EXCAVATIONS ARE TO REMAIN FREE OF WATER BELOW THE SUBGRADE OF THE WORK WHILE WORK IS IN PROGRESS. DEWATERING SHALL BEGIN WHEN GROUNDWATER IS FIRST ENCOUNTERED AND SHALL CONTINUE UNTIL BACKFILLING IS COMPLETED.

CONCRETE SHALL NOT BE PLACED AND PIPE SHALL NOT BE LAID IN WATER. WATER SHALL NOT BE ALLOWED TO RISE OVER CONCRETE OR MORTAR FOR A MINIMUM OF EIGHT (8) HOURS AFTER PLACEMENT. GROUNDWATER SHALL NOT BE ALLOWED TO RISE AROUND PIPE UNTIL AFTER THE TRENCH IS BACKFILLED.

DISPOSAL OF WATER FROM THE WORK AREA SHALL BE CONDUCTED IN A CODE COMPLIANT MANNER WITHOUT DAMAGE TO ADJACENT PROPERTIES, WITHOUT CREATING A MENACE TO PUBLIC HEALTH, AND WITHOUT AFFECTING WATER SUPPLIES WITHIN THE PROJECT AREA.

CONVEYANCE OF DEWATERING FLOWS AND INSTALLATION OF EROSION AND SEDIMENT CONTROLS SHALL BE CONDUCTED IN ACCORDANCE WITH ALL GOVERNING CODES, STANDARDS, AND REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL WELL PERMITS AND DISCHARGE PERMITS REQUIRED FOR DEWATERING OPERATIONS.

ALL HOLES AND DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AFTER THE REMOVAL OF DEWATERING EQUIPMENT.

DIVISION 3 - CONCRETE

CONCRETE REINFORCEMENT

REINFORCING STEEL SHALL BE NEWLY MANUFACTURED (BILLET) DEFORMED STEEL, GRADE 60, CONFORMING TO ASTM A615. PROVIDE MINIMUM LAP OF 44X THE BAR DIAMETER AT SPLICES UNLESS NOTED OTHERWISE ON THE DRAWINGS.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064, GRADE 60 OR 70. LAP ONE FULL MESH PLUS TWO INCHES AT SPLICES.

ALL REINFORCING STEEL (INCLUDING WELDED WIRE FABRIC) SHALL BE SECURELY TIED AND SUPPORTED IN PLACE TO PREVENT DISLOCATION DURING THE PLACING OPERATION. WELDED WIRE FABRIC SHALL BE SUPPORTED ON HIGH CHAIRS SO THAT THE FABRIC IS POSITIONED IN THE TOP THIRD OF THE SLAB THICKNESS, BUT NOT MORE THAN TWO INCHES BELOW THE TOP SURFACE.

REINFORCING STEEL SHALL BE CLEAN OF MUD, DEBRIS, LOOSE RUST, CEMENT, GROUT, OR ANY OTHER MATERIAL WHICH MAY INHIBIT THE BOND BETWEEN THE STEEL AND CONCRETE.

DETAILING, FABRICATION AND PLACEMENT OF CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).

CAST-IN-PLACE CONCRETE

CAST-IN-PLACE CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28-DAY ULTIMATE COMPRESSIVE STRENGTHS UNLESS NOTED OTHERWISE ON THE DRAWINGS:

- FOOTINGS 3,000 PSI
- PIERS/GRADE BEAMS 3,000 PSI
- SLABS-ON-GRADE 4,000 PSI
- AIR-ENTRAINED 3,500 PSI

ALL CONCRETE SHALL CONFORM TO ASTM C94 AND SHALL BE MADE IN ACCORDANCE WITH DESIGN MIXES APPROVED BY THE ENGINEER PRIOR TO CASTING ANY CONCRETE. CONCRETE MIXES SHALL BE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE - ACI 318" BY THE AMERICAN CONCRETE INSTITUTE (ACI) AND SHALL POSSESS A MINIMUM CEMENT CONTENT OF 520 LB. PER CUBIC YARD, MAXIMUM WATER/CEMENT RATIO OF 0.53 FOR INTERIOR CONCRETE PROTECTED FROM FREEZING, AND 0.45 FOR ALL EXTERIOR EXPOSED CONCRETE. SLUMP OF THE CONCRETE SHALL BE A MINIMUM OF FOUR (4) INCHES AND A MAXIMUM OF SIX (6) INCHES.

CONCRETE MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS:

- PORTLAND CEMENT: ASTM C150, TYPE I
- AGGREGATE: ASTM C33
- WATER-REDUCING ADMIXTURES: ASTM C494, TYPE A (FREE OF CALCIUM CHLORIDES)
- AIR-ENTRAINING ADMIXTURES: ASTM C260
- HIGH-RANGE WATER REDUCERS (SUPERPLASTICIZERS): ASTM C494, TYPE F
- FLY ASH: ASTM C618, CLASS F (SHALL NOT BE PROPORTIONED IN MIXES WITH MORE THAN 20% CEMENT BY WEIGHT)
- LIQUID MEMBRANE CURING AND SEALING COMPOUNDS: ASTM C309, AS TESTED UNDER ASTM C156 (HIGH-SOLIDS, WATER AND ACRYLIC-BASED)

ALL CONCRETE TO BE PLACED IN THE CELLS OF CONCRETE MASONRY UNITS, OR IN THE VOIDS OF BRICK MASONRY CONSTRUCTION, SHALL CONTAIN PEA GRAVEL (3/8-INCH DIAMETER STONE) IN LIEU OF COARSE AGGREGATE. CONCRETE MIX SHALL CONTAIN A HIGH-RANGE WATER REDUCER (SUPERPLASTICIZER). SLUMP OF THE CONCRETE SHALL BE A MINIMUM OF SIX (6) INCHES AND A MAXIMUM OF NINE (9) INCHES.

ALL EXTERIOR CONCRETE SHALL CONTAIN FIVE (5) PERCENT ENTRAINED AIR, PLUS OR MINUS ONE (1) PERCENT. DO NOT USE HIGH-RANGE WATER REDUCING ADMIXTURES IN AIR-ENTRAINED CONCRETE.

ADDITION OF WATER TO THE CONCRETE AT THE JOB SITE FOR THE PURPOSE OF INCREASING THE SLUMP OR FOR RETEMPERING CONCRETE THAT HAS BEGUN TO SET IS STRICTLY PROHIBITED.

INTERIOR FLOOR SLABS TO RECEIVE RESILIENT FLOORING OR CARPETING SHALL HAVE A SMOOTH-TROWELED FINISH AND A MINIMUM FLOOR FLATNESS (FF)=30 AND A MINIMUM LEVELNESS (FL)=20, IN ACCORDANCE WITH ASTM E1155. FLOOR SLABS TO RECEIVE TILE SHALL HAVE A SURFACE FINISH. INTERIOR FLOOR SLABS ON GRADE SHALL BE PLACED OVER A 6 MIL POLYETHYLENE VAPOR RETARDER CONFORMING TO ASTM E154.

CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ANCHOR BOLTS, CLIPS, INSERTS, CONNECTION PLATES, SLEEVES, SLOTS, OPENINGS AND OTHER REQUIRED ITEMS IN ACCORDANCE WITH THE CONTRACT DRAWINGS, AND IN COORDINATION WITH OTHER TRADES PRIOR TO PLACING CONCRETE. CONCRETE SHALL NOT BE BROKEN OUT FOR PLACEMENT OF ELECTRICAL, MECHANICAL OR OTHER EQUIPMENT WITHOUT ENGINEER APPROVAL.

GROUT FOR SETTING BEARING SURFACES SHALL BE NON-SHRINK, NON-STAINING, EQUAL TO TO "MASTERFLOW 713" BY MASTER BUILDERS SOLUTIONS.

ALL PHASES OF CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CODES AND STANDARDS PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE (ACI).

DIVISION 5 - METALS

STRUCTURAL STEEL FRAMING

ALL STRUCTURAL STEEL SHALL BE PRIME PAINTED AFTER FABRICATION WITH BOLTED FIELD CONNECTIONS.

STRUCTURAL STEEL W-SHAPE MEMBERS SHALL CONFORM TO ASTM A992, GRADE 50. ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36, GRADE 36, UNLESS INDICATED OTHERWISE BELOW.

STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500, GRADE B.

STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B.

BOLTS FOR CONNECTING STRUCTURAL STEEL SHAPES SHALL BE ASTM A325, 3/4-INCH DIAMETER, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 55.

DESIGN, FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).

WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE - STEEL" BY THE AMERICAN WELDING SOCIETY (AWS). WELDING ELECTRODES SHALL BE E70 SERIES.

ANY CONNECTION NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY THE STRUCTURAL STEEL FABRICATOR IN ACCORDANCE WITH THE AISC "STEEL CONSTRUCTION MANUAL". DESIGN CONNECTIONS FOR THE MINIMUM SHEAR CAPACITY NOTED IN THE AISC BEAM TABLES OR FOR THE REACTIONS SHOWN ON THE DRAWINGS.

ALL ALUMINUM AND STEEL MEMBERS SHALL BE TREATED OR PROPERLY SEPARATED TO PREVENT GALVANIC REACTIONS AND CORROSIVE EFFECTS.

STEEL FABRICATOR IS SOLELY RESPONSIBLE FOR FIELD SURVEYING AND VERIFICATION OF EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO, THE LOCATION, ELEVATION AND DIMENSIONS OF EXISTING WALLS AND FRAMING.

FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT PRIOR APPROVAL OF THE DESIGN PROFESSIONAL SHALL NOT BE PERMITTED.

STEEL JOISTS & JOIST GIRDERS

STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED, FABRICATED AND ERECTED TO THE REQUIREMENTS OF THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI) FOR JOIST SERIES AND JOIST GIRDERS INDICATED ON THE DRAWINGS. ALL JOISTS AND JOIST GIRDERS SHALL HAVE A SHOP COAT OF RUST INHIBITIVE, NON-BITUMINOUS PAINT.

PROVIDE HORIZONTAL AND DIAGONAL BRIDGING AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH THE APPLICABLE SJI STANDARD SPECIFICATIONS. PROVIDE ANCHORS AS REQUIRED AT EACH LINE OF BRIDGING. SECURE ALL BRIDGING TO INTERSECTING WALLS, BEAMS, AND OTHER MEMBERS AS REQUIRED, EVEN IF NOT SPECIFICALLY DETAILED ON THE DRAWINGS. FINAL CONNECTIONS OF ALL BRIDGING SHALL BE BY WELDING OR BOLTING.

ALL BRIDGING, BRIDGING ANCHORS AND JOIST BRACING MEMBERS SHALL BE COMPLETELY INSTALLED AS JOISTS ARE ERECTED AND BEFORE DECKING OR CONSTRUCTION LOADS ARE PLACED ON THE JOISTS. BRIDGING SHALL SUPPORT THE TOP CHORDS AGAINST LATERAL MOVEMENT DURING THE CONSTRUCTION PERIOD AND SHALL HOLD THE STEEL JOIST IN APPROXIMATE POSITIONS AS SHOWN ON THE DRAWINGS.

PROVIDE JOIST AND JOIST GIRDER END ANCHORAGE AT MASONRY AND STEEL SUPPORTS IN ACCORDANCE WITH THE APPLICABLE SJI STANDARD SPECIFICATIONS. EXTEND, CONNECT AND WELD BOTTOM CHORDS OF JOISTS AND JOIST GIRDERS AT ALL COLUMNS AND WHERE NOTED ON DRAWINGS.

WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE - STEEL" BY THE AMERICAN WELDING SOCIETY (AWS). WELDING ELECTRODES SHALL BE E70 SERIES.

STEEL JOIST AND JOIST GIRDER MANUFACTURER SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE (SJI).

STEEL DECK

STEEL DECKING SHALL BE IN ACCORDANCE WITH THE "DESIGN MANUAL FOR FLOOR AND ROOF DECKS" BY THE STEEL DECK INSTITUTE (SDI).

STEEL USED IN DECKING SHALL HAVE A MINIMUM YIELD STRENGTH OF 33,000 PSI AND SHALL HAVE A SHOP PRIMED COATING, CONFORMING TO ASTM A1008, AND WHITE IN COLOR AT UNDERSIDE.

COLD-FORMED METAL FRAMING

ALL STUDS, JOISTS AND ACCESSORIES SHALL BE OF THE TYPE, SIZE, STEEL THICKNESS AND SPACING SHOWN ON THE PLANS, AS MANUFACTURED BY DIETRICH INDUSTRIES. EQUIVALENT PRODUCTS BY OTHER MANUFACTURERS MAY BE SUBMITTED FOR ENGINEER APPROVAL.

STUDS, TRACK AND BRACING SHALL BE MANUFACTURED PER ASTM C955.

ALL GALVANIZED STUDS, JOISTS AND ACCESSORIES, 12, 14 AND 16 GAUGE, SHALL BE FORMED FROM STEEL THAT CONFORMS TO THE REQUIREMENTS OF ASTM A653, WITH A MINIMUM SPECIFIED YIELD STRENGTH OF 50,000 PSI.

ALL GALVANIZED STUDS, JOISTS AND ACCESSORIES, 18 GAUGE OR LIGHTER, SHALL BE FORMED FROM STEEL THAT CONFORMS TO THE REQUIREMENTS OF ASTM A653, WITH A MINIMUM SPECIFIED YIELD STRENGTH OF 33,000 PSI.

ALL MEMBERS AND ACCESSORIES SHALL BE HOT DIPPED GALVANIZED PER ASTM A653 AND SHALL HAVE A MINIMUM G-60 COATING.

ALL LIGHT GAUGE MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE (AISI).

PROVIDE CHANNEL SHAPED STUDS, RUNNERS, TRACKS, BLOCKING, CLIP ANGLES, SHOES, REINFORCEMENTS, FASTENERS AND OTHER ACCESSORIES RECOMMENDED BY THE MANUFACTURER FOR A COMPLETE FRAMING SYSTEM.

FRAME ALL OPENINGS LARGER THAN TWO FEET WITH A MINIMUM OF DOUBLE STUDS EACH SIDE OR AS SHOWN ON THE DRAWINGS.

TRACK SHALL BE ATTACHED TO FOUNDATIONS, WOOD PLATES AND OTHER STRUCTURAL COMPONENTS. SECURELY ANCHOR STUDS IN TRACK TO FLOOR CONSTRUCTION AND OVERHEAD STRUCTURE. PROVIDE SLIP JOINTS WHERE NON-BEARING VERTICAL STUDS MEET FLOOR OR ROOF STRUCTURAL MEMBER. ALLOW 3/4 INCHES OF VERTICAL DEFLECTION AT SLIP JOINTS.

AT TRACK BUTT JOINTS, TRACK MUST BE ANCHORED TO A COMMON STRUCTURAL ELEMENT.

ALL COLD FORM TO COLD FORM STEEL CONNECTIONS SHALL BE MADE WITH NO. 10 TEKS SCREWS OF APPROPRIATE LENGTH UNLESS NOTED OTHERWISE ON THE DRAWINGS. PENETRATION OF JOINED MATERIAL SHALL NOT BE LESS THAN THREE (3) EXPOSED THREADS.

ATTACH SHEATHING AND GYPSUM WALLBOARD TO STUDS AND JOISTS PER MANUFACTURER RECOMMENDATIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

SPLICES IN STUDS SHALL NOT BE PERMITTED.

INSTALL BUILT-UP HEADERS IN ALL OPENINGS LARGER THAN STUD SPACING.

INSTALL WEB STIFFENERS ON ALL JOISTS AT ALL BEARING LOCATIONS.

HORIZONTAL STUD BRACING SHALL BE 18 GAUGE x TWO-INCH WIDE STEEL STRAPS OR MANUFACTURER'S STANDARD BRIDGING CHANNELS. BRACING SHALL BE CONTINUOUS AND LOCATED AT A MAXIMUM OF 4'-0" O.C. FOR FULL HEIGHT OF ALL WALLS. ALL STRAPS SHALL BE SECURELY ANCHORED TO A STRUCTURAL MEMBER AT EACH END, CAPABLE OF RESISTING ALL TEMPORARY BRACING FORCES. BRACES ARE TO BE INSTALLED ON BOTH SIDES OF THE WALL UNLESS NOTED OTHERWISE ON THE DRAWINGS, AND ATTACHED TO ALL LOAD BEARING STUDS.

JOIST BRIDGING SHALL BE INSTALLED AT A MAXIMUM OF 8'-0" O.C. INSTALL SOLID BRIDGING IN FIRST TWO AND LAST TWO ROWS OF JOISTS AND AT A MAXIMUM OF 10'-0" O.C. FLAT 18 GAUGE x TWO-INCH WIDE STEEL STRAPS ATTACHED TO THE FLANGES OF THE JOISTS WILL BE ACCEPTABLE BETWEEN THE SOLID BRIDGING. THE TOP FLANGE BRIDGING IS ASSUMED TO BE PROVIDED BY THE DECK MATERIAL.

ALL PERMANENT AND TEMPORARY BRACING, BLOCKING, STRAPPING AND WEB REINFORCEMENT SHALL BE INSTALLED PRIOR TO LOADING OF ANY STRUCTURAL MEMBER.

PERFORM WELDING OF ALL LIGHT GAUGE STEEL FRAMING IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE - SHEET STEEL" BY THE AMERICAN WELDING SOCIETY (AWS).

CUT ALL LIGHT GAUGE STEEL FRAMING MEMBERS WITH SAWS OR SHEARS. FLAME CUTTING IS NOT PERMITTED.

DIVISION 7 - THERMAL & MOISTURE PROTECTION

INSULATED, METAL-FACED PANELS

PROVIDE INSULATED, METAL-FACED PANELS WITH 42-INCH PANEL WIDTHS AND NOMINAL THICKNESSES AS INDICATED ON THE DRAWINGS BY METL-SPAN, KINGSPAN OR APPROVED EQUAL MANUFACTURER. PANELS SHALL BE CONSTRUCTED OF G90 GALVANIZE COATED, MINIMUM 26 GAUGE STEEL INTERIOR AND EXTERIOR FACINGS WITH FOAMED-IN-PLACE POLYURETHANE OR POLYISOCYANURATE FOAM CORE, PROVIDING PANEL R-VALUES OR U-FACTORS AS INDICATED ON THE DRAWINGS.

EXTERIOR PANEL FACINGS SHALL RECEIVE FLUOROPOLYMER (70% PVDF), TWO-COAT SYSTEM, FACTORY FINISH WITH COLORS SELECTED BY OWNER FROM MANUFACTURERS STANDARD COLOR CHART. INTERIOR PANEL FACINGS SHALL RECEIVE SILICONIZED POLYESTER, TWO-COAT SYSTEM, FACTORY FINISH WITH COLOR SELECTED BY OWNER FROM MANUFACTURERS STANDARD COLOR CHART.

PANEL INSTALLATIONS SHALL CONFORM TO THE INTENT OF THE CONSTRUCTION DETAILS PROVIDED IN THE DRAWINGS. PROPOSED DEVIATIONS FROM THESE CONSTRUCTION DETAILS, DUE TO VARIATIONS IN PANELS PRODUCED BY DIFFERENT MANUFACTURERS, SHALL BE PERMITTED PROVIDED SUCH DEVIATIONS ARE DETAILED IN THE SUBMITTED SHOP DRAWINGS AND APPROVED BY THE ENGINEER. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR ERECTION OF PANELS.

PANELS SHALL MEET ALL TESTING REQUIREMENTS MANDATED BY THE APPLICABLE BUILDING CODE, INCLUDING BUT NOT LIMITED TO, ASTM E84, NFPA 259, NFPA 285 AND NFPA 286.

TPO MEMBRANE ROOFING SYSTEM

PROVIDE FULLY ADHERED, SINGLE-PLY, REINFORCED, ASTM D6878 COMPLIANT, 60 MIL THERMOPLASTIC POLYOEFLERIN (TPO) MEMBRANE ROOFING SYSTEM BY FIRESTONE BUILDING PRODUCTS, CARLISLE SYNTEC SYSTEMS, JOHNS MANVILLE, VERSICO ROOFING SYSTEMS, GAF, OR APPROVED EQUAL MANUFACTURER. PROVIDE ALL AUXILIARY SYSTEM MATERIALS, INCLUDING BUT NOT LIMITED TO, FLASHINGS, ADHESIVES, TERMINATION BARS, FASTENERS, AND OTHER MISCELLANEOUS ACCESSORIES, REQUIRED FOR A COMPLETE AND WEATHERTIGHT SYSTEM INSTALLATION. AUXILIARY MATERIALS NOT AVAILABLE FROM THE SYSTEM MANUFACTURER SHALL BE PROVIDED AS RECOMMENDED BY THE SYSTEM MANUFACTURER.

ROOF COVER BOARDS SHALL CONSIST OF A MOLD- AND MOISTURE-RESISTANT GYPSUM CORE WITH HEAVY DUTY COATED FIBERGLASS FACERS, PROVIDING A TOTAL NOMINAL THICKNESS OF 1/2 INCH. COVER BOARDS SHALL BE ASTM C473 AND ASTM C1177 COMPLIANT AND SHALL PROVIDE A MINIMUM CLASS A RATING IN ACCORDANCE WITH ASTM E84.

ROOF INSULATION SHALL BE RI

PRCA20240398

STATEMENT OF SPECIAL INSPECTIONS

PROJECT: Coastal Pacific Food Distribution Inc

LOCATION: 1015 Performance Drive Stockton California 95206

PERMIT APPLICANT: The Whiting-Turner Contracting Company

APPLICANT'S ADDRESS: 300 East Joppa, Baltimore, Maryland 21286, United States

ARCHITECT OF RECORD: Eric M. Catellier

STRUCTURAL ENGINEER OF RECORD: Matthew R. Smith

MECHANICAL ENGINEER OF RECORD: Pawel S. Szczurko

ELECTRICAL ENGINEER OF RECORD: Richard Mark Ewing

REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE: Matthew R. Smith

This Statement of Special Inspections is submitted in accordance with Section 1704.3 of the 2018 International Building Code. It includes a *Schedule of Special Inspection Services* applicable to the above-referenced Project as well as the identity of the individuals, agencies, or firms intended to be retained for conducting these inspections. If applicable, it includes *Special Inspections for Seismic Resistance* and/or *Special Inspections for Wind Resistance.*

Are *Special Inspections for Seismic Resistance* included in the *Statement of Special Inspections*? ☒ Yes ☐ No

Are *Special Inspections for Wind Resistance* included in the *Statement of Special Inspections*? ☒ Yes ☐ No

The Special Inspector(s) shall keep records of all inspections and shall furnish interim inspection reports to the Building Official and to the Registered Design Professional in Responsible Charge at a frequency agreed upon by the Design Professional and the Building Official prior to the start of work. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge prior to completion of that phase of work. A *Final Report of Special Inspections* documenting required special inspections and corrections of any discrepancies noted in the inspections shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge at the conclusion of the project.

Frequency of interim report submittals to the Registered Design Professional in Responsible Charge:

__Weekly __Bi-Weekly _x_Monthly Other; specify:_____

The Special Inspection program does not relieve the Contractor of the responsibility to comply with the Contract Documents. Jobsite safety and means and methods of construction are solely the responsibility of the Contractor.

Statement of Special Inspections Prepared by:

Matthew R. Smith

Type or print name

Matthew R. Smith 05/15/2024

Signature Date

Preparer's Seal

MATTHEW R. SMITH — STATE OF WASHINGTON — 23017421 — REGISTERED PROFESSIONAL ENGINEER

Building Official's Acceptance:

Signature Date

Permit Number:

Frequency of interim report submittals to the Building Official:

__Monthly __Bi- Monthly __Upon Completion Other; specify:_____

SCHEDULE OF SPECIAL INSPECTIONS SERVICES

PROJECT	CPFD - FREEZER EXPANSION - PUYALLUP, WA		
MATERIAL / ACTIVITY	**SERVICE**	**REFERENCE**	**EXTENT**
1705.2.1 Structural Steel Construction			
Special inspections and nondestructive testing of structural steel elements in buildings, structures and portions thereof shall be in accordance with the quality assurance inspection requirements of AISC 360.	Submittal Review	AISC 360	-
	Shop (3) and field inspection		-
1705.2.2 Cold-Formed Steel Deck			
Special inspections and qualification of cold-formed steel floor and roof deck shall be in accordance with the quality assurance inspection requirements of SDI QA/QC.		Per SDI	-
1705.2.3. Open-Web Steel Joists and Joist Girders			
1. Installation of open-web steel joists and joist girders.			
a. End connections - welding or bolted.	Shop (3) and field inspection	per SJI specifications listed in Section 2207.1	Periodic
b. Bridging - horizontal or diagonal.	Shop (3) and field inspection	per SJI specifications listed in Section 2207.1	Periodic
c) Standard bridging.			Periodic
d) Bridging that differs from the specifications listed in SJI-CJ or SJI 100.			Periodic
1705.3 Concrete Construction			
Inspect reinforcement, including prestressing tendons, and verify placement.	Field inspection	Per ACI318: Ch. 20,25.2,25.3,26.6.1-26.6.3	Periodic
Inspection of anchors cast in concrete.		ACI 318:17.8.2	Periodic
Inspect anchors post-installed in hardened concrete members.	Field inspection	ACI 318: 17.8.2.4 ACI 318: 17.8.2	Continuous
1. Adhesive anchors installed in horizontal or upward-inclined orientation that resist sustained tension loads.	Field inspection		Continuous
2. Mechanical and adhesive anchors not described in 4a.	Field inspection		Continuous
Verify use of approved design mix	Shop (3) and field inspection	ACI 318: Ch. 19, 26.4.3, 26.4.4	Periodic
Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Shop (3) and field inspection	ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	Continuous
Inspect concrete and shotcrete placement for proper application techniques.	Shop (3) and field inspection	ACI 318: 26.5	Continuous
Verify maintenance of specified curing temperature and techniques	Shop (3) and field inspection	ACI 318: 26.5.3-26.5.5	Periodic
Inspection of formwork for shape, lines, location and dimensions	Field inspection		Periodic
Concrete strength testing and verification of compliance with construction documents.	Field testing and review of laboratory reports		Periodic
1705.3.2 Material Tests			
In the absence of sufficient data or documentation providing evidence of conformance to quality standards for materials in Chapters 19 and 20 of ACI 318, testing of materials in accordance with the appropriate standards and criteria for the material in Chapters 19 and 20 of ACI 318 is required.	-	ACI 318	-

SCHEDULE OF SPECIAL INSPECTIONS SERVICES

PROJECT	CPFD - FREEZER EXPANSION - PUYALLUP, WA		
MATERIAL / ACTIVITY	**SERVICE**	**REFERENCE**	**EXTENT**
1705.6 Soils			
The approved geotechnical report and the construction documents prepared by the registered design professionals shall be used to determine compliance. During fill placement, the special inspector shall verify that proper materials and procedures are used in accordance with the provisions of the approved geotechnical report.	Submittal review and field inspection	-	-
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Field inspection	-	Periodic
2. Verify excavations are extended to proper depth and have reached proper material.	Field inspection	-	Periodic
3. Perform classification and testing of compacted fill materials.	Field inspection	-	Periodic
4. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill	Field inspection	-	Continuous
5. Prior to placement of controlled fill, inspect subgrade and verify that site has been prepared properly	Field inspection	-	Periodic

SCHEDULE OF SPECIAL INSPECTIONS SERVICES

PROJECT	CPFD - FREEZER EXPANSION - PUYALLUP, WA		
MATERIAL / ACTIVITY	**SERVICE**	**REFERENCE**	**EXTENT**
1705.10 Fabricated items			
Where fabrication of structural, load-bearing or lateral load-resisting members or assemblies is being conducted on the premises of a fabricator's shop, special inspections of the fabricated items shall be performed during fabrication, except where the fabricator has been approved to perform work without special inspections.	Shop inspection		As noted in each applicable shop activity
Special inspections during fabrication are not required where the work is done on the premises of a fabricator approved to perform such work without special inspection. Approval shall be based on review of the fabricator's written fabrication procedures and quality control manuals that provide a basis for control of materials and workmanship, with periodic auditing of fabrication and quality control practices by an approved agency or the building official. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the owner or the owner's authorized agent for submittal to the building official stating that the work was performed in accordance with the approved construction documents.	Shop inspection	-	As noted in each applicable shop activity
1705.11.2 Cold-formed Steel Special Inspections For Wind Resistance			
1.Inspection during welding operations of elements of the main wind force-resisting system	Shop (3) and field inspection	-	Periodic
2. Inspection of screw attachment, bolting, anchoring and other fastening of components within the main wind/force-resisting system, including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs.	Shop (3) and field inspection	-	Periodic
-			
1. Roof covering, roof deck and roof framing connections.	Shop (3) and field inspection	-	Periodic
2. Exterior wall covering and wall connections to roof and floor diaphragms.	Shop (3) and field inspection	-	Periodic
1705.12.1 Structural Steel Special Inspections for Seismic Resistance			
1. Seismic Force-Resisting Systems: Special inspections of structural steel in the seismic force-resisting systems in buildings and structures assigned to Seismic Design Category B, C, D, E or F shall be performed.	Shop (3) and field inspection	-	In accordance with AISC 341
2. Structural steel elements in SDC B, C, D, E, or F other than those in Item 1, including struts, collectors, chords and foundation elements.	Shop (3) and field inspection	-	In accordance with AISC 341

SCHEDULE OF SPECIAL INSPECTIONS SERVICES

PROJECT	CPFD - FREEZER EXPANSION - PUYALLUP, WA		
MATERIAL / ACTIVITY	**SERVICE**	**REFERENCE**	**EXTENT**
1705.12.4 Designated Seismic Systems Verification Special Inspections for Seismic Resistance			
For SDC C, D, E or F, inspect and verify that the component label, anchorage or mounting conforms to the certificate of compliance in accordance with ASCE 7 Section 13.2.2.	Field inspection	-	Periodic
1705.12.5 Architectural Components Special Inspections for Seismic Resistance			
1. For SDC D, E or F, inspection during the erection and fastening of exterior cladding and interior or exterior veneer more than 30 feet above grade or walking surface and weighing more than 5 psf.	Field inspection	-	Periodic
2. For SDC D, E or F, inspection during the erection and fastening of interior nonbearing walls more than 30 feet above grade or walking surface and weighing more than 15 psf.	Field inspection	-	Periodic
3. For SDC D, E or F, inspection during the erection and fastening of exterior nonbearing walls more than 30 feet above grade or walking surface.	Field inspection	-	Periodic
4. For SDC D, E or F, inspection during anchorage of access floors	Field inspection	-	Periodic
1705.12.6 Plumbing, Mechanical and Electrical Components Special Inspections for Seismic Resistance			
Inspection during the anchorage of electrical equipment for emergency or standby power systems in SDC C, D, E or F	Field inspection	-	Periodic

SCHEDULE OF SPECIAL INSPECTIONS SERVICES

PROJECT	CPFD - FREEZER EXPANSION - PUYALLUP, WA		
MATERIAL / ACTIVITY	**SERVICE**	**REFERENCE**	**EXTENT**
Inspection during installation of mechanical and electrical equipment, including duct work, piping systems and their structural supports, where automatic fire sprinkler systems are installed in structures assigned to SDC C, D, E, or F to verify one of the following unless flexible sprinkler hose fittings are used:	Field inspection	-	Periodic
a. ASCE/SEI 7, Section 13.2.3 minimum required clearances have been provided.	Field inspection	-	Periodic
b. A three inch or greater nominal clearance has been provided between fire protection sprinkler system drops and sprigs and; structural members not used collectively or independently to support the sprinklers; equipment attached to the building structure; and other systems' piping.	Field inspection	-	Periodic
1705.12.7 Storage Racks Special Inspections for Seismic Resistance			
Inspection during the anchorage of storage racks 8 feet or greater in height in structures assigned to SDG D, E or F.	Field inspection	-	Periodic
1705.13.1 Structural Steel Testing for Seismic Resistance			
1. Nondestructive testing of structural steel in the seismic force resisting systems in accordance with AISC 341 in structures assigned to SDC B, C, D, E or F.	Field test	AISC 341	Periodic
2. Nondestructive testing of structural steel elements in the seismic force-resisting systems not covered in 1 above including struts, collectors, chords and foundation elements in accordance with AISC 341 in structures assigned to SDC B, C, D, E or F.	Field test	AISC 341	Periodic

SCHEDULE OF SPECIAL INSPECTIONS SERVICES

PROJECT	CPFD - FREEZER EXPANSION - PUYALLUP, WA		
MATERIAL / ACTIVITY	**SERVICE**	**REFERENCE**	**EXTENT**
1705.13.2 Seismic Certification of Nonstructural Components			
Review certificate of compliance for designated seismic system components in structures assigned to SDC B, C, D, E or F.	Certificate of compliance review		Each submittal
1705.13.3 Seismic Certification of Designated Seismic Systems			
Review certificate of compliance for designated seismic system components in structures assigned to SDC C, D, E or F.	Certificate of compliance review	-	Each submittal

* INSPECTION AGENTS FIRM	ADDRESS

Notes: 1. The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building Official and/or the Design Professional.

2. The list of Special Inspectors may be submitted as a separate document, if noted as above.

3. Shop inspections of fabricated items, are not required where the fabricator is approved in accordance with IBC Section 1704.2.5.1 and listed in schedy 1705.2.

4. Observe: Observe on a random basis, operations need not be detroyed pending these inspections. Perform: These tasks shall be performed for each welded joint, bolted connection, or shear element.

5. NDT of welds completed in an approved fabricator's shop may be performed by that fabricator when approved by the AHJ. Refer to AISC 360, N5.

Are Special Inspections for Seismic Resistance included in the Statement of Special Inspections?
Are Special Inspections for Wind Resistance included in the Statement of Special Inspections?

DATE: 05/15/2024

ENVELOPE COMPLIANCE SUMMARY

2018 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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Project & Applicant Information	**Project Title**	Coastal Pacific Food Distributors - 2018 WSEC	For Building Department Use:	**Date:**	**Feb 21, 2024**
	Project Address	322 Valley Ave. NW Puyallup, WA 98371			
	Applicant Name	Layne Bynum			
	Applicant Phone	410-745-7299			
	Applicant Email	lbynum@cwbengineers.com			

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

General Occupancy	All Commercial	**General Building Use Type(s)**	Warehouse, Refrigerated	**Building Cond. Floor Area**	63,506
Project Scope	Building Addition	**Space Conditioning Categories**	Fully Conditioned Warehouse Cooler Warehouse Freezer	**Project Cond. Floor Area**	43,633
				Floors Above Grade	1
				Compliance Method	Compliance Method 1 - General

Envelope Project Description Construction of a 43,633sf refrigerated warehouse cooler and freezer addition to an existing 19,873sf refrigerated warehouse building.

Envelope Compliance Scope and Method	**Scope**	**Space Conditioning Category**	**Compliance Method**	**WWR/SRR per Category**	**UA Calculation Adjustment**	**Fenestration Alternates**	**Compliance Verification**
	Building Addition	Warehouse Freezer	Prescriptive	NA	None selected	NA	**COMPLIES**
	Building Addition	Warehouse Cooler	Prescriptive	NA	None selected	NA	**COMPLIES**
	Building Addition	Fully Conditioned	Prescriptive	0% / 0%	None selected	No alternates selected	**COMPLIES**

Air Barrier Testing	Air barrier testing included in project scope	**Air Barrier Comments**	

Project Title	**Coastal Pacific Food Distributors - 2018 WSEC**	**Date**	**Feb 21, 2024**

Scope & Space Conditioning	**BUILDING ADDITION - WAREHOUSE FREEZER**			**Compliance Verification**	**COMPLIES**
Window-to-wall Ratio	NA	**Skylight-to-roof-ratio**	NA	**Vertical Fenestration Alternate**	NA

Opaque Envelope Assemblies

					Insulation R-Values				
Roof/Ceiling	**Location in Documents**	**Assembly ID**	**Assembly Location**	**Cavity**	**Continuous (% penetration)**	**2nd Layer (MB Roof)**	**U-Factor**	**Net Area (SF)**
Warehouse freezer ceiling	Wall Sections A-301, A-302 & A-303 and Roof Plan A-102	(2) Layers 4.5" Polyisocyanurate	Exterior		R-53.60 (< 0.04%)			39,765
	Envelope assembly type: Site-constructed steel-framed			U-Factor Source:				
	U-Factor Source Description:			Is this assembly exterior or interior?: Exterior				
Walls	**Location in Documents**	**Assembly ID**	**Assembly Location**	**Cavity**	**Continuous (% penetration)**	**Insulated Wall Furring**	**U-Factor**	**Net Area (SF)**
Warehouse freezer walls	Wall Sections A-301, A-302 & A-303 and Room Finish Schedule A-601	6" Insulated Metal Panel (IMP)	Exterior	R-52.50 (< 0.04%)				36,104
	Envelope assembly type: Site-constructed steel-framed			U-Factor Source:				
	U-Factor Source Description:			Is this assembly exterior or interior?: Exterior				
Floors and Edges	**Location in Documents**	**Assembly ID**	**Assembly Location**	**Cavity**	**Continuous (% penetration)**		**U-Factor**	**Net Area (SF)**
Warehouse freezer integral floor	Wall Sections A-301, A-302 & A-303 and Slab Plan S-102	6" IMP Slab Edge / 6" XPS Underneath	Interior partition		R-30.00 (< 0.04%)			39,765
	U-Factor Source:			U-Factor Source Description:				
	Is this assembly exterior or interior?: Interior partition							

Fenestration & Opaque Door Assemblies

					Insulation R-Values			
Opaque Doors	**Location in Documents**	**Assembly ID**	**Assembly Location**	**Door Insulation**			**U-Factor**	**Rough Opening (SF)**
Warehouse freezer door	Specifications G-002 and Door Schedule A-601	Freezer Personnel Swing Door	Exterior	R-48.00				139
	U-Factor Source:			U-Factor Source Description:				
	Does opaque freezer door have glazing?: No			Is this assembly exterior or interior?: Exterior				

Project Title	**Coastal Pacific Food Distributors - 2018 WSEC**	**Date**	**Feb 21, 2024**

Scope & Space Conditioning	**BUILDING ADDITION - WAREHOUSE COOLER**			**Compliance Verification**	**COMPLIES**
Window-to-wall Ratio	NA	**Skylight-to-roof-ratio**	NA	**Vertical Fenestration Alternate**	NA

Opaque Envelope Assemblies

					Insulation R-Values				
Roof/Ceiling	**Location in Documents**	**Assembly ID**	**Assembly Location**	**Cavity**	**Continuous (% penetration)**	**2nd Layer (MB Roof)**	**U-Factor**	**Net Area (SF)**
Warehouse cooler ceiling	Wall Sections A-301 & A-302 and Roof Plan A-102	(2) Layers 3.5" Polyisocyanurate	Exterior		R-41.00 (< 0.04%)			3,106
	Envelope assembly type: Site-constructed steel-framed			U-Factor Source:				
	U-Factor Source Description:			Is this assembly exterior or interior?: Exterior				
Walls	**Location in Documents**	**Assembly ID**	**Assembly Location**	**Cavity**	**Continuous (% penetration)**	**Insulated Wall Furring**	**U-Factor**	**Net Area (SF)**
Warehouse cooler walls	Wall Sections A-301 & A-302 and Room Finish Schedule A-601	6" Insulated Metal Panel (IMP)	Exterior		R-52.50 (< 0.04%)			2,850
	Envelope assembly type: Site-constructed steel-framed			U-Factor Source:				
	U-Factor Source Description:			Is this assembly exterior or interior?: Exterior				
Slab-on-grade Floors	**Location in Documents**	**Assembly ID**	**Assembly Location**	**Slab Edge**	**Under Slab**		**F-Factor**	**Perimeter Length (SF)**
Unheated slab	Wall Sections A-301 and Slab Plan S-102	6" IMP Slab Edge / 3" XPS Underneath (4 Type)	At grade level	R-.93	R-15			118
	Slab Insulation Method: Fully insulated slab (slab edge and underneath)			F-Factor Source:				
	F-Factor Source Description:							

Fenestration & Opaque Door Assemblies

					Insulation R-Values			
Opaque Doors	**Location in Documents**	**Assembly ID**	**Assembly Location**	**Door Insulation**			**U-Factor**	**Rough Opening (SF)**
Warehouse cooler door	Specifications G-002 and Door Schedule A-601	Cooler Dock Door	Exterior	R-33.00				408
	U-Factor Source:			U-Factor Source Description:				
	Does opaque cooler door have glazing?: No			Is this assembly exterior or interior?: Exterior				
Warehouse cooler door	Specifications G-002 and Door Schedule A-601	Cooler Personnel Swing Door	Exterior	R-32.00				46
	U-Factor Source:			U-Factor Source Description:				
	Does opaque cooler door have glazing?: No			Is this assembly exterior or interior?: Exterior				

Project Title	**Coastal Pacific Food Distributors - 2018 WSEC**	**Date**	**Feb 21, 2024**

Scope & Space Conditioning	**BUILDING ADDITION - FULLY CONDITIONED**			**Compliance Verification**	**COMPLIES**
Window-to-wall Ratio	0%	**Skylight-to-roof-ratio**	0%	**Vertical Fenestration Alternate**	No alternates selected

Opaque Envelope Assemblies

					Insulation R-Values				
Roof/Ceiling	**Location in Documents**	**Assembly ID**	**Assembly Location**	**Cavity**	**Continuous (% penetration)**	**2nd Layer (MB Roof)**	**U-Factor**	**Net Area (SF)**
Insulation entirely above deck	Wall Sections A-303 & A-304 and Roof Plan A-102	(2) Layers 4.5" Polyisocyanurate	Exterior		R-53.60 (< 0.04%)			762
	U-Factor Source:			U-Factor Source Description:				
	Is this assembly exterior or interior?: Exterior							
Walls	**Location in Documents**	**Assembly ID**	**Assembly Location**	**Cavity**	**Continuous (% penetration)**	**Insulated Wall Furring**	**U-Factor**	**Net Area (SF)**
Steel-framed - Commercial	Wall Sections A-303 & A-304 and Room Finish Schedule A-601	6" Insulated Metal Panel (IMP)	Exterior	R-0	R-0 (< 0.04%)		U-0.019	896
	U-Factor Source: Tested			U-Factor Source Description: Mam/Sentwr				
	Framing Depth:			Framing Spacing:				
	Is this assembly exterior or interior?: Exterior							
Slab-on-grade Floors	**Location in Documents**	**Assembly ID**	**Assembly Location**	**Slab Edge**	**Under Slab**		**F-Factor**	**Perimeter Length (SF)**
Unheated slab	Wall Sections A-303 & A-304 and Slab Plan S-102	6" IMP Slab Edge / 6" XPS Underneath	At grade level	R-.92	R-30			34
	Slab Insulation Method: Fully insulated slab (slab edge and underneath)			F-Factor Source:				
	F-Factor Source Description:							

GENERAL BUILDING ENVELOPE REQUIREMENTS

1. FENESTRATION PRODUCTS SHALL BE LABELED WITH NFRC U-FACTOR, SHGC, VT AND LEAKAGE RATING, AS APPLICABLE.
2. BUILDING ENCLOSURE AIR LEAKAGE TESTING IS REQUIRED FOR WSEC COMPLIANCE.
3. CONTINUOUS AIR BARRIER SHALL EXTEND FULL HEIGHT FROM FLOOR TO ROOF ASSEMBLIES AND SHALL BE LOCATED AT FULL PERIMETER OF EXISTING AND PROPOSED COLD STORAGE AREAS AND ACCESSORY BATTERY CHARGING AND STORAGE SPACES. REFER TO SHEET A-101 FOR GRAPHIC OUTLINE OF AIR BARRIER LOCATION, SHEETS A-301 TO A-304 FOR REFERENCED WALL SECTIONS, AND SHEET A-502 FOR ASSOCIATED DETAILS.
4. AREA TABULATIONS FOR AIR BARRIER BOUNDARIES ARE AS FOLLOWS:
   - FLOOR: 59,363 SQ.FT.
   - PERIMETER WALLS:
     NORTH: 12,464 SQ.FT.
     SOUTH: 12,464 SQ.FT.
     EAST: 8,879 SQ.FT.
     WEST: 8,120 SQ.FT.
     TOTAL: 41,927 SQ.FT.
   - ROOF: 59,363 SQ.FT.
5. BUILDING ENCLOSURE AIR LEAKAGE TESTING SHALL BE PERFORMED PER ASTM C779 (OR EQUIVALENT METHOD APPROVED BY THE CODE OFFICIAL), WITH A TARGET LEAKAGE RATE OF 0.25 CFM/SQ.FT. AT 0.3 IN. WG.
   - SUBMIT BUILDING ENCLOSURE AIR LEAKAGE TEST REPORTS TO JURISDICTION AND OWNER.
   - IF INITIAL TEST RESULT EXCEEDS 0.25 CFM/SQ.FT., INSPECTION AND ALL PRACTICAL CORRECTIVE ACTIONS SHALL BE COMPLETED AND DOCUMENTED IN THE AIR LEAKAGE TEST REPORT.
   - IF INITIAL TEST RESULT EXCEEDS 0.40 CFM/SQ.FT., CORRECTIVE ACTIONS SHALL ALSO INCLUDE RETESTING. CORRECTIVE MEASURES AND RETESTING SHALL BE REPEATED UNTIL THE TEST RESULT IS 0.40 CFM/SQ.FT. OR LESS.
   - INCLUDE AIR BARRIER TEST REPORT IN PROJECT CLOSE OUT DOCUMENTATION PROVIDED TO THE BUILDING OWNER.
6. PROJECT CLOSE OUT DOCUMENTATION IS REQUIRED, INCLUDING APPLICABLE CALCULATIONS, WSEC ENVELOPE COMPLIANCE REPORTS AND FENESTRATION NFRC RATING CERTIFICATES.

22038278 REGISTERED ARCHITECT — LAYNE S. BYNUM — STATE OF WASHINGTON

28 JUN 2024

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

MATTHEW R. SMITH — STATE OF WASHINGTON — 23017421 — REGISTERED PROFESSIONAL ENGINEER

28 JUN 2024

REV	DESCRIPTION	BY	DATE
	90% DESIGN DOCUMENTS	CAS	23 FEB 24
A	ISSUED FOR PERMIT	CAS	06 MAR 24
B	ISSUED FOR PERMIT	CAS	15 MAY 24
	ISSUED FOR PERMIT	CAS	28 JUN 24

ENGINEERS / ARCHITECTS
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AWB ENGINEERS

CPFD

WHITING-TURNER

ENVELOPE COMPLIANCE SUMMARY & SPECIAL INSPECTIONS

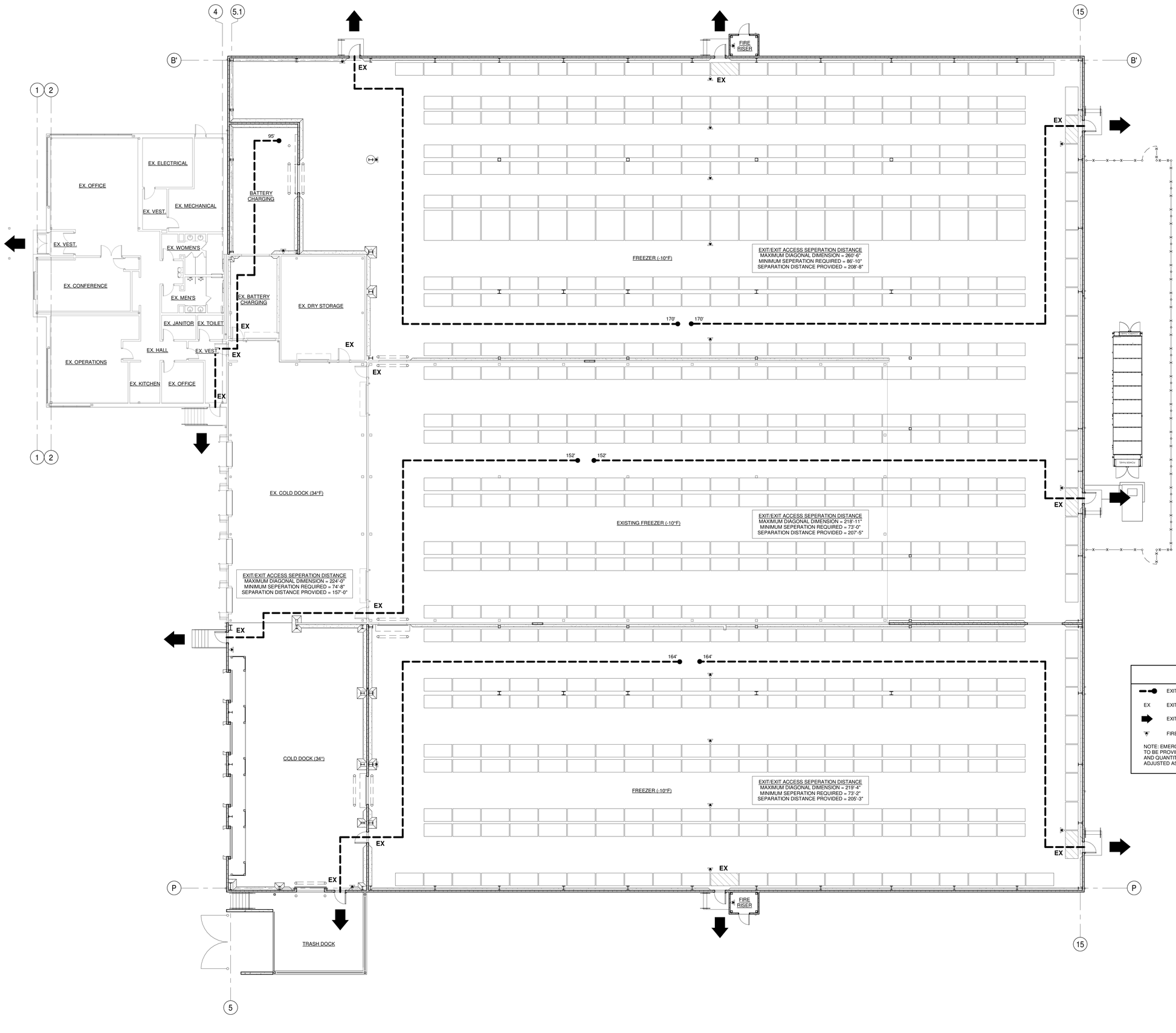
FREEZER EXPANSION

PUYALLUP, WASHINGTON

SCALE	AS NOTED
DRAWN	CAS
PROJ.MGR.	MRS
JOB	221205
SHEET	G-003

6/28/2024 6:28:51 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt

PRCA20240398



LEGEND

- EXIT ACCESS TRAVEL PATH
- EX — EXIT / EXIT ACCESS DOOR
- EXIT DISCHARGE
- FIRE EXTINGUISHER - BRACKET MOUNTED

NOTE: EMERGENCY EXIT LIGHTING AND EXIT SIGNAGE TO BE PROVIDED AS REQUIRED BY CODE. LOCATION AND QUANTITY OF FIRE EXTINGUISHERS TO BE ADJUSTED AS REQUIRED BY THE FIRE MARSHAL.

PROJECT DATA

PROJECT SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS OF ALL GOVERNING CODES, STANDARDS, REGULATIONS, AND LOCAL AUTHORITIES, INCLUDING BUT NOT LIMITED TO THE 2018 WASHINGTON STATE BUILDING CODE, 2018 WASHINGTON STATE FIRE CODE AND 2018 WASHINGTON STATE ENERGY CODE.

CONSTRUCTION CLASSIFICATION: (EXISTING TO REMAIN)
TYPE II-B (§602.2)

OCCUPANCY CLASSIFICATIONS: (EXISTING TO REMAIN)
GROUP B - BUSINESS (§304.1)
GROUP S-1 - MODERATE HAZARD STORAGE (§311.2)
NON-SEPARATED, MIXED USE (§508.3)

SPRINKLER SYSTEM: FULLY SPRINKLERED SYSTEM COMPLYING WITH NFPA 13.

BUILDING AREA: 19,873 SQ.FT. (EXISTING)
43,743 SQ.FT. (PROPOSED ADDITION)
63,616 SQ.FT. (TOTAL)

BUILDING HEIGHT: 45.08 FT. - 1 STORY

ALLOWABLE AREA: 70,000 SQ.FT./STORY (T506.2)

ALLOWABLE HEIGHT: 75.00 FT. - 3 STORIES (T504.3 & T504.4)

BUILDING ELEMENT FIRE RESISTANCE RATINGS: 0 HOURS (T601 & T602)

OCCUPANCY LOAD (T1004.5):
BUSINESS AREA: 4,147 SQ.FT. / 150 SQ.FT. = 28 OCCUPANTS
STORAGE AREA: 59,469 SQ.FT. / 500 SQ.FT. = 119 OCCUPANTS
TOTAL: = 147 OCCUPANTS

EXIT ACCESS TRAVEL DISTANCE (T1017.2):
GROUP B: 300 FT.
GROUPS S-1: 250 FT.

EXIT/EXIT ACCESS SEPARATION: 1/3 MAXIMUM DIAGONAL DIMENSION (§1007.1.1-EXC. 2)

COMMON PATH OF TRAVEL: 100 FT. (T1006.2.1)

DEAD END CORRIDOR: 50 FT. (§1020.4-EXC. 2)

FIRE EXTINGUISHERS: 75 FT. MAXIMUM TRAVEL DISTANCE (T906.3(1))

HIGH-PILED COMBUSTIBLE STORAGE (2018 WASHINGTON STATE FIRE CODE - §3203 & T3206.2):
COMMODITY CLASS: I-IV
STORAGE AREA: 12,001-500,00 SQ.FT.
FIRE EXTINGUISHING SYSTEM: REQUIRED
FIRE DETECTION SYSTEM: NOT REQUIRED
FIRE DEPT. ACCESS DOORS: REQUIRED
SMOKE & HEAT REMOVAL: NOT REQUIRED (AREAS TO BE PROTECTED BY ESFR SPRINKLER SYSTEM)

FIRE EXTINGUISHERS & CABINETS

CLASS A-B-C FIRE EXTINGUISHERS SHALL BE MULTI-PURPOSE DRY CHEMICAL EXTINGUISHERS IN ENAMELED STEEL CONTAINERS WITH A MINIMUM 10-POUND NOMINAL CAPACITY AND A MINIMUM RATING OF 4-A:80-B:C, EQUAL TO "MP SERIES" BY LARSEN'S MANUFACTURING CO. CLASS K FIRE EXTINGUISHERS SHALL BE WET CHEMICAL EXTINGUISHERS IN STAINLESS STEEL CONTAINERS WITH A MINIMUM 2.5 GALLON CAPACITY AND A MINIMUM RATING OF 2-A:K, EQUAL TO "WC SERIES" BY LARSEN'S MANUFACTURING CO. FIRE EXTINGUISHERS SHALL CONFORM TO THE REQUIREMENTS OF NFPA 10.

FIRE EXTINGUISHER CABINETS SHALL BE SEMI-RECESSED, WITH COLD-ROLLED STEEL SHEET CABINET PROVIDING 2-1/2" ROLLED EDGE, CLEAR ANODIZED ALUMINUM CABINET TRIM AND DOOR, VERTICAL DUO PANEL DOOR STYLE WITH CLEAR ACRYLIC GLAZING AND VERTICAL, BLACK, PRESSURE-SENSITIVE DIE-CUT "FIRE EXTINGUISHER" LETTERING, AND MANUFACTURER STANDARD DOOR HARDWARE, EQUAL TO "ARCHITECTURAL SERIES" BY LARSEN'S MANUFACTURING CO.

EXTINGUISHERS SHALL BE SECURELY MOUNTED TO THE WALL WITH BRACKETS OR SECURED WITHIN CABINETS SIZED PER MANUFACTURER RECOMMENDATIONS AS INDICATED ON DRAWINGS. IF MACHINERY OR OTHER OBJECTS WOULD HAMPER ACCESS TO AN EXTINGUISHER IN THE LOCATION SHOWN, THE EXTINGUISHER SHALL BE RELOCATED TO A LOCATION PROVIDING FREE ACCESS. DO NOT RELOCATE THE EXTINGUISHER MORE THAN 10 FEET FROM THE LOCATION SHOWN.

EXTINGUISHERS HAVING WEIGHTS NOT EXCEEDING FORTY POUNDS SHALL BE MOUNTED WITH THE TOP OF EXTINGUISHER AT 4'-0" MAXIMUM ABOVE THE FLOOR. EXTINGUISHERS EXCEEDING FORTY POUNDS IN WEIGHT SHALL BE MOUNTED WITH THE TOP OF EXTINGUISHER AT 3'-6" MAXIMUM ABOVE THE FLOOR. EXTINGUISHERS OR CABINETS PROTRUDING MORE THAN FOUR INCHES FROM WALLS SHALL BE MOUNTED WITH THEIR LEADING EDGE AT OR BELOW 27 INCHES ABOVE THE FLOOR. IN NO CASE SHALL THE CLEARANCE BETWEEN THE BOTTOM OF EXTINGUISHER AND FLOOR BE LESS THAN FOUR INCHES.

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

22038278 REGISTERED ARCHITECT
LAYNE S. BYNUM
STATE OF WASHINGTON
28 JUN 2024

REV	DESCRIPTION	BY	DATE
A	ISSUED FOR PERMIT	CAS	15 MAY 24
B	ISSUED FOR PERMIT	CAS	28 JUN 24

PROJECT NORTH

ENGINEERS / ARCHITECTS
1402 NORTHWOOD DRIVE, SALISBURY, MARYLAND 21801-7834
PH: (410) 742-7299 FAX: (410) 742-0273

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AWB ENGINEERS

WHITING-TURNER

LIFE SAFETY PLAN

FREEZER EXPANSION
PUYALLUP, WASHINGTON

SCALE	As indicated
DRAWN	CAS
PROJ.MGR.	MRS
JOB	221205
SHEET	LS-101

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PRCA20240398

508.3.1 Occupancy classification.
Nonseparated occupancies shall be individually classified in accordance with Section 302.1 of the 2018 Washington State Building Code. The requirements of this code shall apply to each portion of the building based on the occupancy classification of that space. In addition, the most restrictive provisions of Chapter 9 of the 2018 Washington State Building Code that apply to the nonseparated occupancies shall apply to the total nonseparated occupancy area.

246' - 6"

CONCRETE STAIR & LANDING (TYP. U.N.O.) REF: 3 / A-501

FIRE RISER 106

8'-0"W x 10'-0"H LEAVE OUT PANEL W/ L6x6x3/8" GALV ANGLE CURB W/ 3/4"Ø ANCHOR BOLTS @ 2'-0" O.C.

EX. OFFICE
EX. ELECTRICAL
EX. MECHANICAL
EX. VESTIBULE
EX. VESTIBULE
EX. WOMEN'S TOILET
EX. CLOSET
EX. CONFERENCE
EX. CLOSET
EX. MEN'S TOILET
EX. JANITOR
EX. TOILET
EX. HALL
EX. VESTIBULE
EX. OPERATIONS
EX. KITCHEN
EX. OFFICE

BATTERY CHARGING 105 (FULLY CONDITIONED)

EX. BATTERY CHARGING

EXISTING IMP WALL PANELS TO BE DEMOLISHED

EX. DRY STORAGE

FREEZER (-10°F) 104

EXISTING FREEZER (-10°F)

3'-0"x6'-0" SWITCHBOARD

7'-11"x27'-9" GAS COOLER

8'-6"x37'-4" REFRIG. EQMT. SKID

MAU

DENOTES LOCATION OF CONTINUOUS AIR BARRIER PERIMETER

EX. COLD DOCK (34°F)

EXISTING IMP WALL PANELS, DIAGONAL BRACING & DOORS TO BE DEMOLISHED

EXISTING IMP WALL PANELS TO BE DEMOLISHED UP TO 16'-0" A.F.F. - EXISTING GIRT TO MOVE ABOVE OPENING - REF: 7 / S-202

STEEL STAIR REF: 5 / A-501

10'-0"x18'-0" REMOVABLE PANEL FOR FUTURE OPENING

TYP. DOOK PIT GUARDRAIL W/ CONTROL STATION REF: 9 / S-501

DOCK SEALS, BUMPERS & TRUCK RESTRAINT (TYP OF 4 DOCK POSITIONS)

COLD DOCK (34°F) 101

FREEZER (-10°F) 102

VERTICAL STORING DOCK LEVELER (TYP. OF 4)

CONCRETE STAIRS & LANDING REF: 1 / A-501

PROVIDE 7'-0" HIGH, BLACK VINYL COATED CHAIN LINK DUMPSTER ENCLOSURE SERVICE GATES W/ BLACK VINYL PRIVACY SLATS, DROP RODS AND LATCH PROVIDING 120° MINIMUM SWING

C.I.P. CONCRETE TRASH ENCLOSURE WALL (TYP.)

TRASH DOCK

CONCRETE CURB W/ GALV. GUARDRAIL

5'-0"x5'-0"x4" THICK CONCRETE LANDING AT EXTERIOR STAIRS (TYP. U.N.O.)

FIRE RISER 103

3'-0"x7'-0" BLACK VINYL COATED CHAIN LINK ACCESS GATE W/ BLACK VINYL PRIVACY SLATS AND LATCH

LEGEND

- (101) DOOR NUMBER
- 101 ROOM NUMBER
- (A) WINDOW TYPE
- FIRE EXTINGUISHER - BRACKET MOUNTED

NOTE: BASIC PLAN DIMENSIONS ARE TO FACE OF CONCRETE, FACE OF METAL PANEL, OR CENTERLINE OF COLUMNS AS APPLICABLE

22038278 REGISTERED ARCHITECT
LAYNE S. BYNUM
STATE OF WASHINGTON
28 JUN 2024

REV	DESCRIPTION	DATE	BY
	OWNER REVIEW	21 JUL 23	GTB
	30% PRICING SET	28 JUL 23	GTB
	90% PRICING SET	25 JAN 24	GS
A	ISSUED FOR PERMIT	06 MAR 24	CAS
B	ISSUED FOR PERMIT	15 MAY 24	CAS
	ISSUED FOR PERMIT	28 JUN 24	CAS

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AWB ENGINEERS

CPFD

WHITING-TURNER

FLOOR PLAN
FREEZER EXPANSION
PUYALLUP, WASHINGTON

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

SCALE	3/32"=1'-0"
DRAWN	GTB
PROJ.MGR.	MRS
JOB	221205
SHEET	A-101

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PRCA20240398

ROOF ATTACHMENT LEGEND

- 36/14 W/ (15) #10 TEK SCREWS (1091 plf)
- 36/7 W/ (15) #10 TEK SCREWS @ 20'-0" (771 plf)
- 36/14 W/ (10) #10 TEK SCREWS @ 20'-0" TO 40'-0" (904 plf)
- 36/7 W/ (6) #10 TEK SCREWS (491 plf)
- 36/7 W/ (11) #10 TEK SCREWS (661 plf)

FULLY ADHERED, SINGLE-PLY REINFORCED TPO ROOFING (60 MIL.) OVER (2) 4.5" LAYERS OF POLYISOCYANURATE INSULATION W/ STAGGERED EDGE JOINTS (R-53.6)

FULLY ADHERED, SINGLE-PLY REINFORCED TPO ROOFING (60 MIL.) ON 5" INSULATED, METAL-FACED PANELS (R-43.7)

FULLY ADHERED, SINGLE-PLY REINFORCED TPO ROOFING (60 MIL.) OVER (2) 3.5" LAYERS OF POLYISOCYANURATE INSULATION W/ STAGGERED EDGE JOINTS (R-41.0)

EXISTING OVERFLOW SCUPPER OPENING TO BE CLOSED & SEALED

EXISTING ROOF ACCESS HATCH

EXISTING LADDER

EXISTING SCREEN WALL TO REMAIN

EXISTING REFRIGERATION EQUIPMENT TO BE REMOVED AND OPENINGS IN EXISTING ROOF TO BE FILLED

EXISTING SCREEN WALL TO BE REMOVED (TYP. EACH END)

LADDER TO EXISTING FREEZER ROOF REF: 8 / A-501

LADDER TO UPPER ROOF REF: 7 / A-501

30" WIDE WALK PAD

REFRIGERATION PIPING REF: REFRIGERATION DRAWINGS

CROSSOVER STAIR (TYP. OF 2)

MANUALLY OPERATED CRANE HOIST

TIE-OFF DAVIT

REFRIGERATION PENTHOUSE #1

REFRIGERATION PENTHOUSE #2

REFRIGERATION PENTHOUSE #3

POWER OPERATED CRANE HOIST

SLOPE

RIDGE

HIGH ROOF

LOW ROOF

D.S.

EX. D.S.

20' - 0"

40' - 0"

15' - 0"

DESCRIPTION	BY	DATE
PRELIMINARY ROOF PLAN	CAS	01 FEB 24
90% DESIGN DOCUMENTS	CAS	22 FEB 24
ISSUED FOR PERMIT	CAS	06 MAR 24
ISSUED FOR PERMIT	CAS	15 MAY 24
ISSUED FOR PERMIT	CAS	28 JUN 24

REV
A
B

PROJECT NORTH

ENGINEERS / ARCHITECTS
1942 NORTHWOOD DRIVE, SALISBURY, MARYLAND 21801-7834
PH: (410) 742-7299 FAX: (410) 742-0273

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AWB ENGINEERS

WHITING-TURNER

ROOF PLAN

FREEZER EXPANSION

PUYALLUP, WASHINGTON

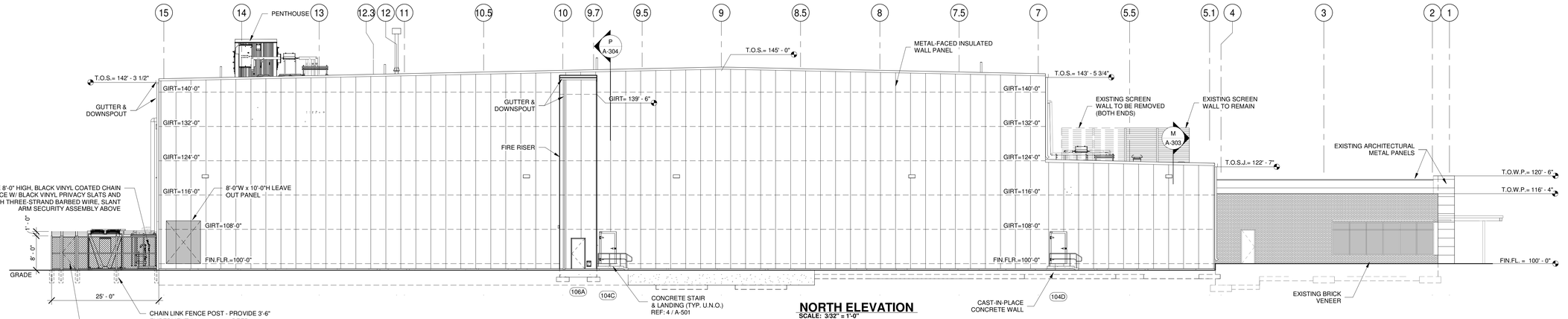
City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning | Engineering | Public Works | Fire | Traffic

SCALE	As indicated
DRAWN	CAS
PROJ.MGR.	MRS
JOB	221205
SHEET	A-102

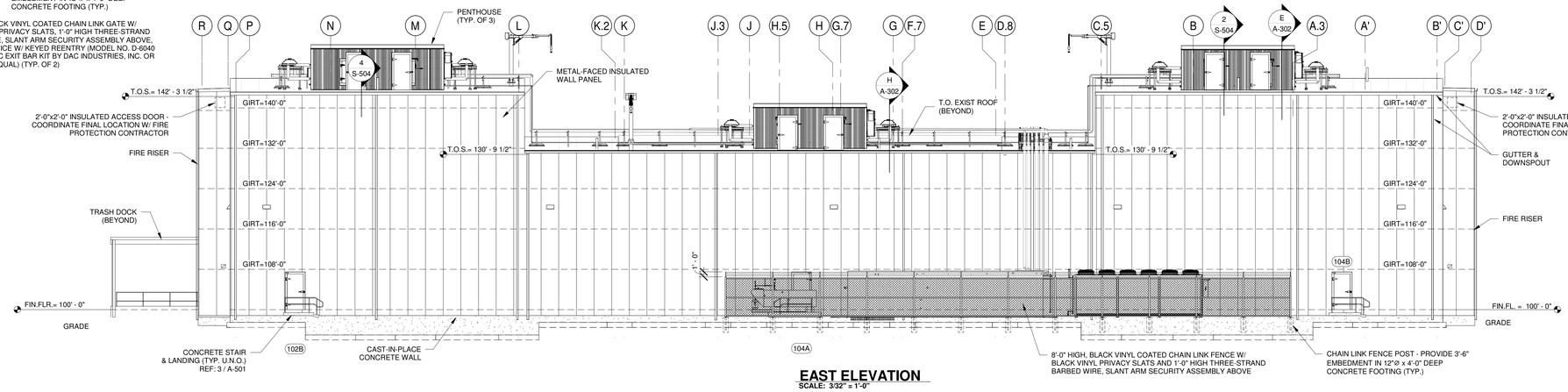
22038278 REGISTERED ARCHITECT
LAYNE S. BYNUM
STATE OF WASHINGTON
28 JUN 2024

6/28/2024 8:25:47 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt

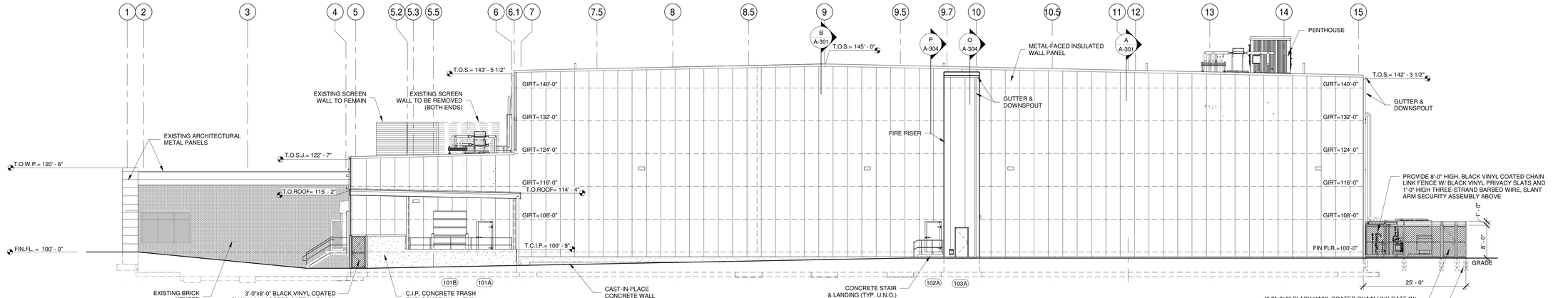
PRCA20240398



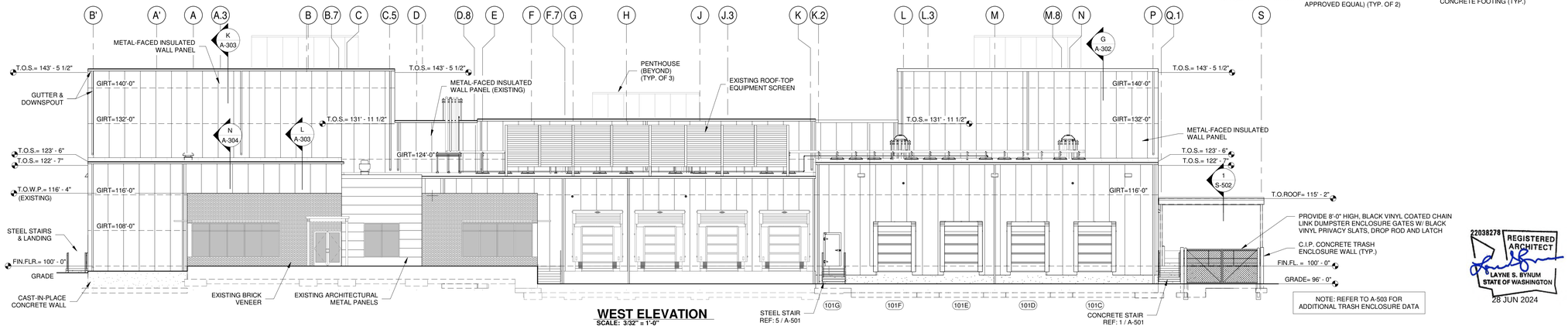
NORTH ELEVATION
SCALE: 3/32" = 1'-0"



EAST ELEVATION
SCALE: 3/32" = 1'-0"



SOUTH ELEVATION
SCALE: 3/32" = 1'-0"



WEST ELEVATION
SCALE: 3/32" = 1'-0"

REV	DESCRIPTION	DATE	BY
	PRE-APPLICATION SUBMITTAL	06 NOV 23	GTB
	90% DESIGN DOCUMENTS	22 FEB 24	CAS
A	ISSUED FOR PERMIT	26 APR 24	CAS
B	ISSUED FOR PERMIT	15 MAY 24	CAS
		28 JUN 24	CAS

ENGINEERS / ARCHITECTS
1902 NORTHWOOD DRIVE, SALISBURY, MARYLAND 21801-7834
PH: (410) 742-7299 FAX: (410) 742-0273

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AWB ENGINEERS

WHITING-TURNER

BUILDING ELEVATIONS

FREEZER EXPANSION
PUYALLUP, WASHINGTON

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

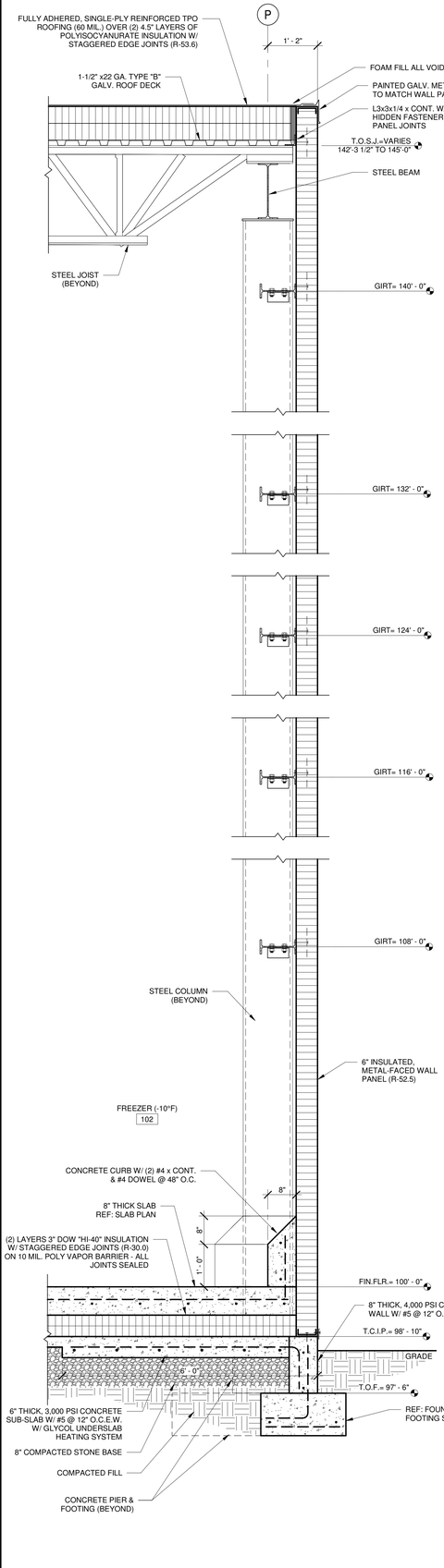
Building	Planning
Engineering	Public Works
Fire	Traffic

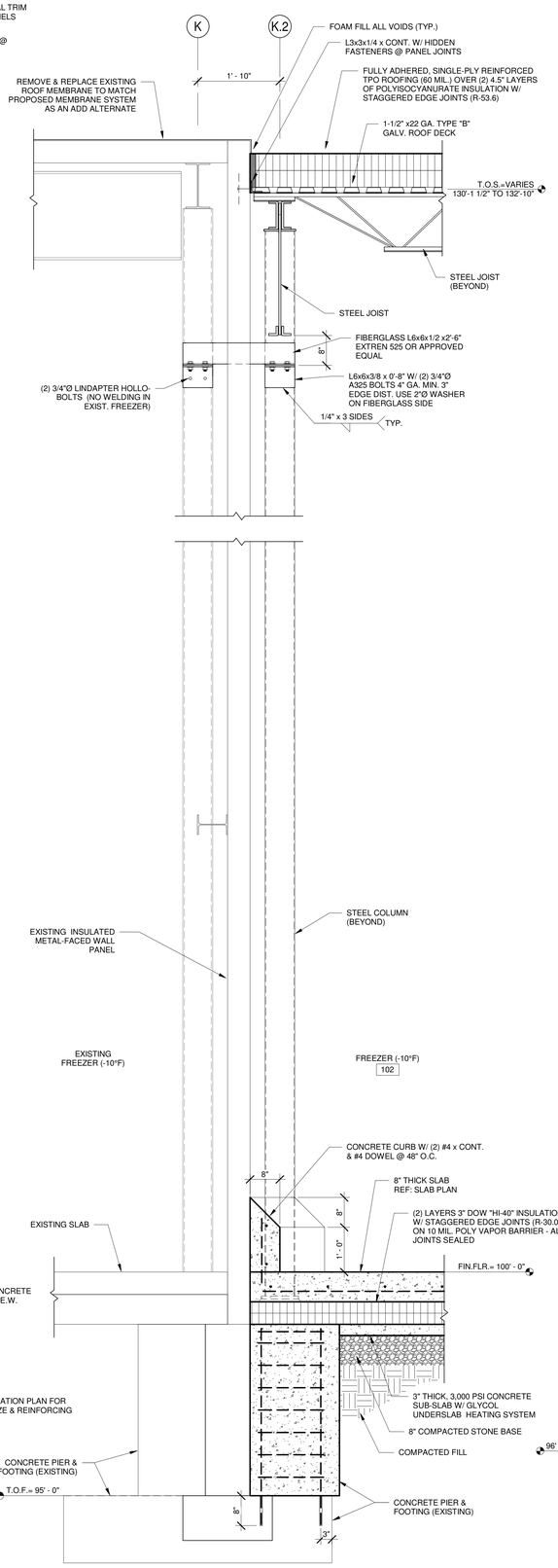
SCALE	3/32" = 1'-0"
DRAWN	GTB
PROJ.MGR.	MRS
JOB	221205
SHEET	A-201

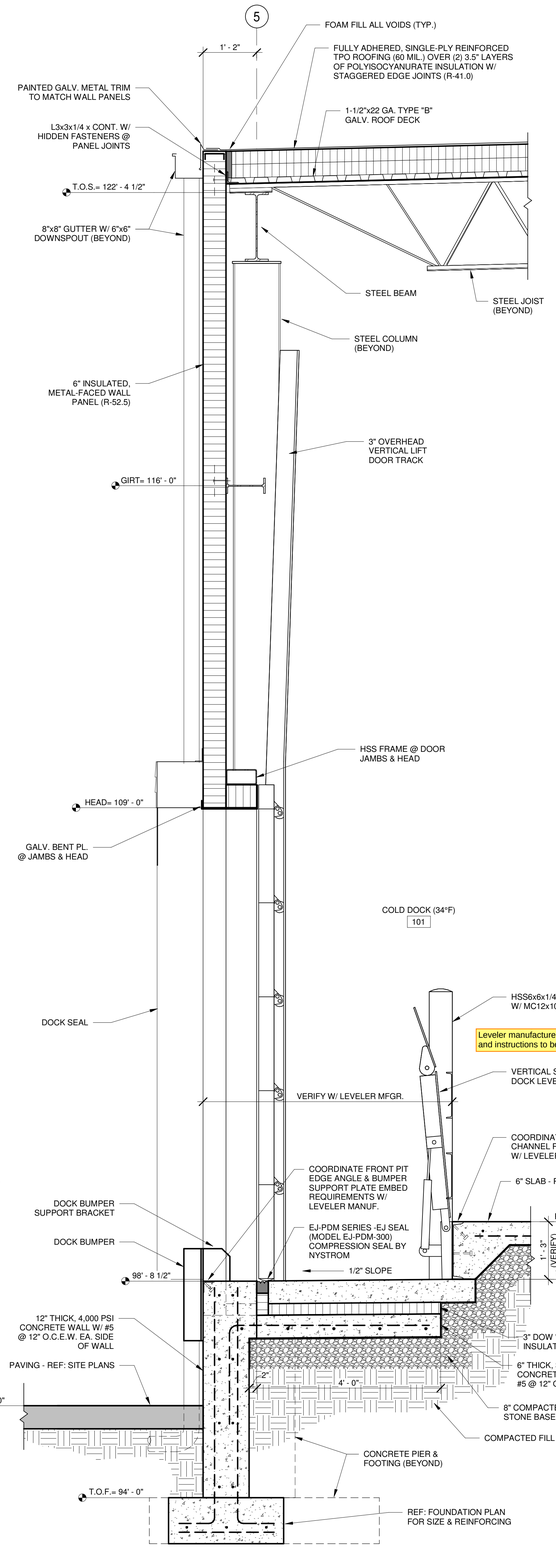
22038278
REGISTERED ARCHITECT
LAYNE S. BYNUM
STATE OF WASHINGTON
28 JUN 2024

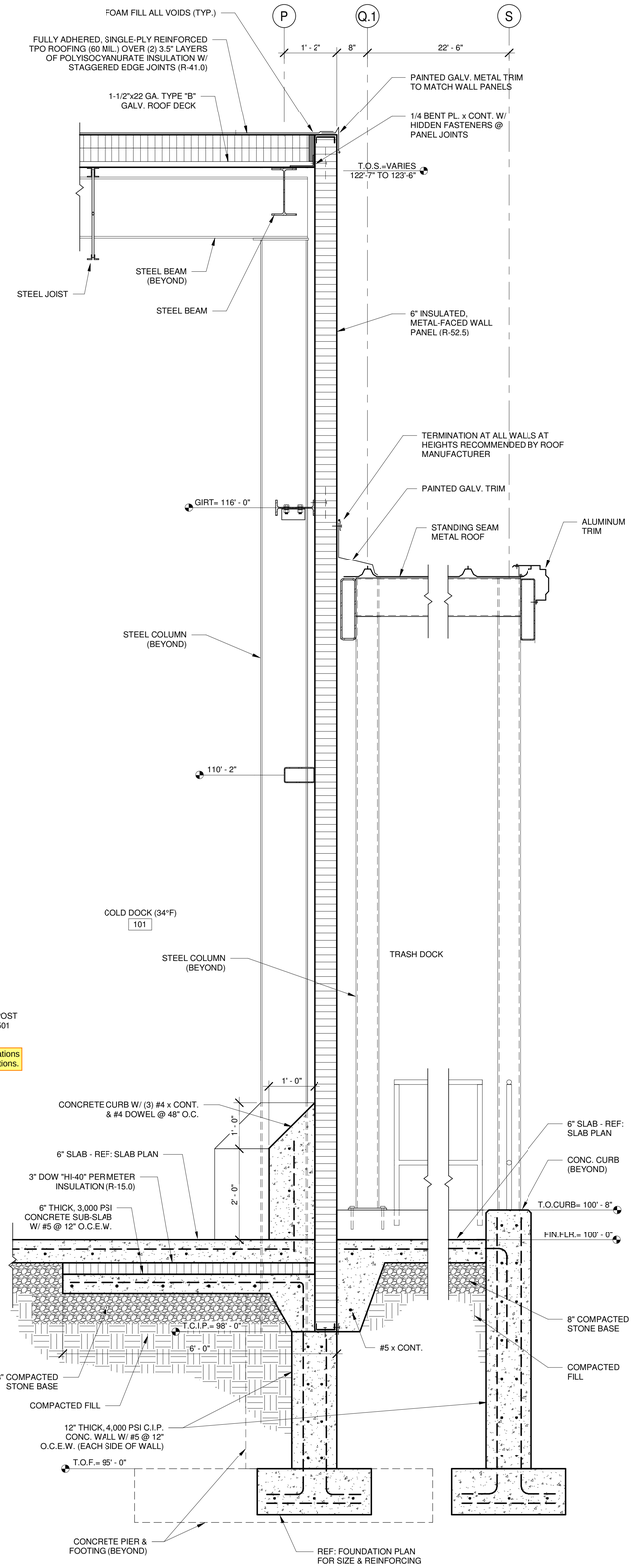
6/28/2024 6:30:56 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt

PRCA20240398









A A-301 **WALL SECTION** SCALE: 3/4" = 1'-0"

B A-301 **WALL SECTION** SCALE: 3/4" = 1'-0"

C A-301 **WALL SECTION** SCALE: 3/4" = 1'-0"

D A-301 **WALL SECTION** SCALE: 3/4" = 1'-0"

22038278 REGISTERED ARCHITECT
LAYNE S. BYNUM
STATE OF WASHINGTON
28 JUN 2024

MATTHEW R. SMITH
STATE OF WASHINGTON
23017421
REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

REV	DESCRIPTION	BY	DATE
	OWNER REVIEW	VG	21 JUL 23
	30% PRICING SET	VG	28 JUL 23
	90% DESIGN DOCUMENTS	CAS	25 JAN 24
A	ISSUED FOR PERMIT	CAS	06 MAR 24
B	ISSUED FOR PERMIT	CAS	15 MAY 24
	ISSUED FOR PERMIT	CAS	28 JUN 24

ENGINEERS / ARCHITECTS
1942 NORTHWOOD DRIVE, SALISBURY, MARYLAND 21801-7834
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AWB ENGINEERS

CPFD

WHITING-TURNER

WALL SECTIONS

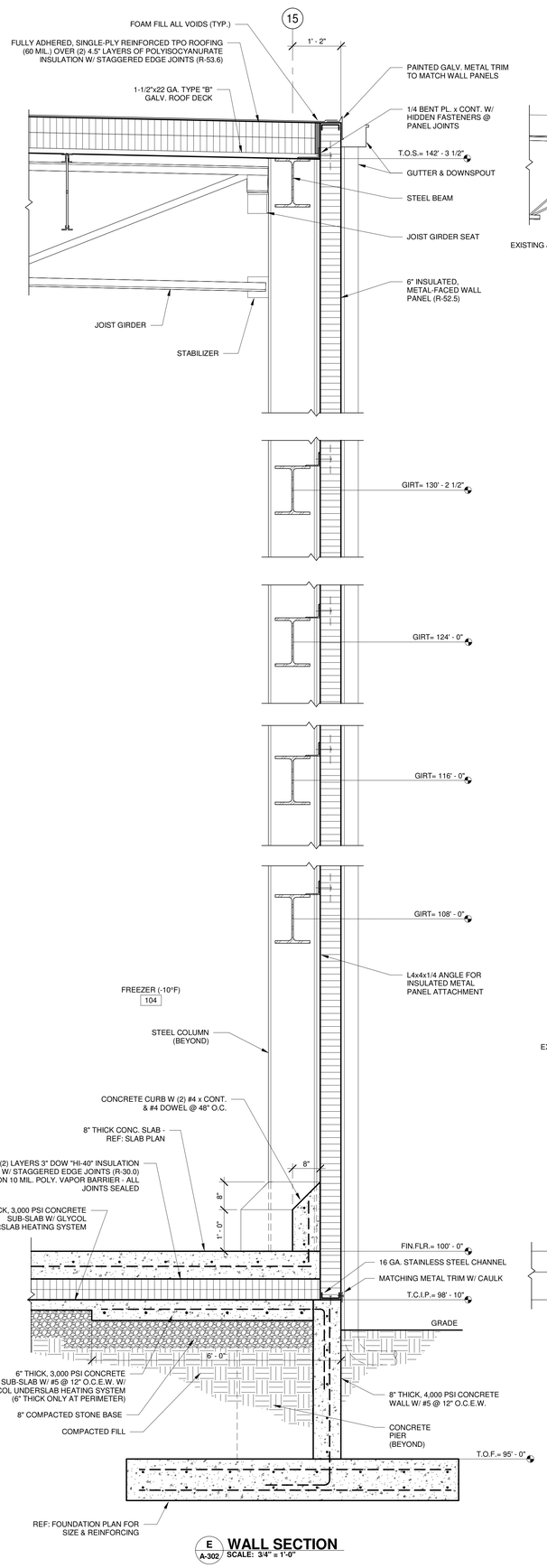
FREEZER EXPANSION

PUYALLUP, WASHINGTON

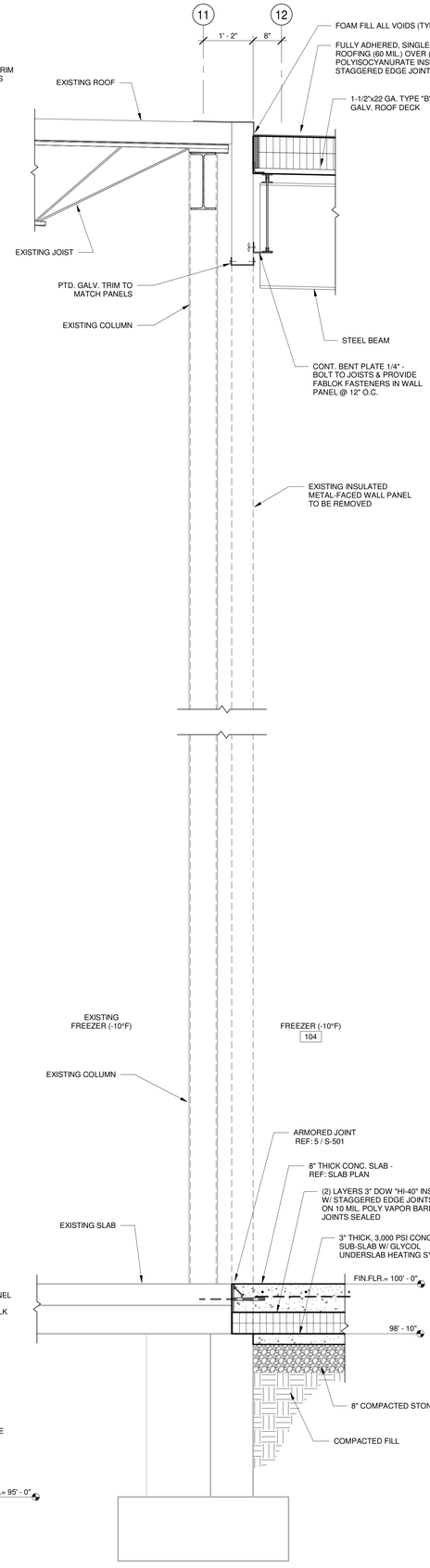
City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning | Engineering | Public Works | Fire | Traffic

SCALE	3/4" = 1'-0"
DRAWN	CAS
PROJ.MGR.	MRS
JOB	221205
SHEET	A-301

6/28/2024 6:31:17 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt



E A-302 **WALL SECTION**
SCALE: 3/4" = 1'-0"



F A-302 **WALL SECTION**
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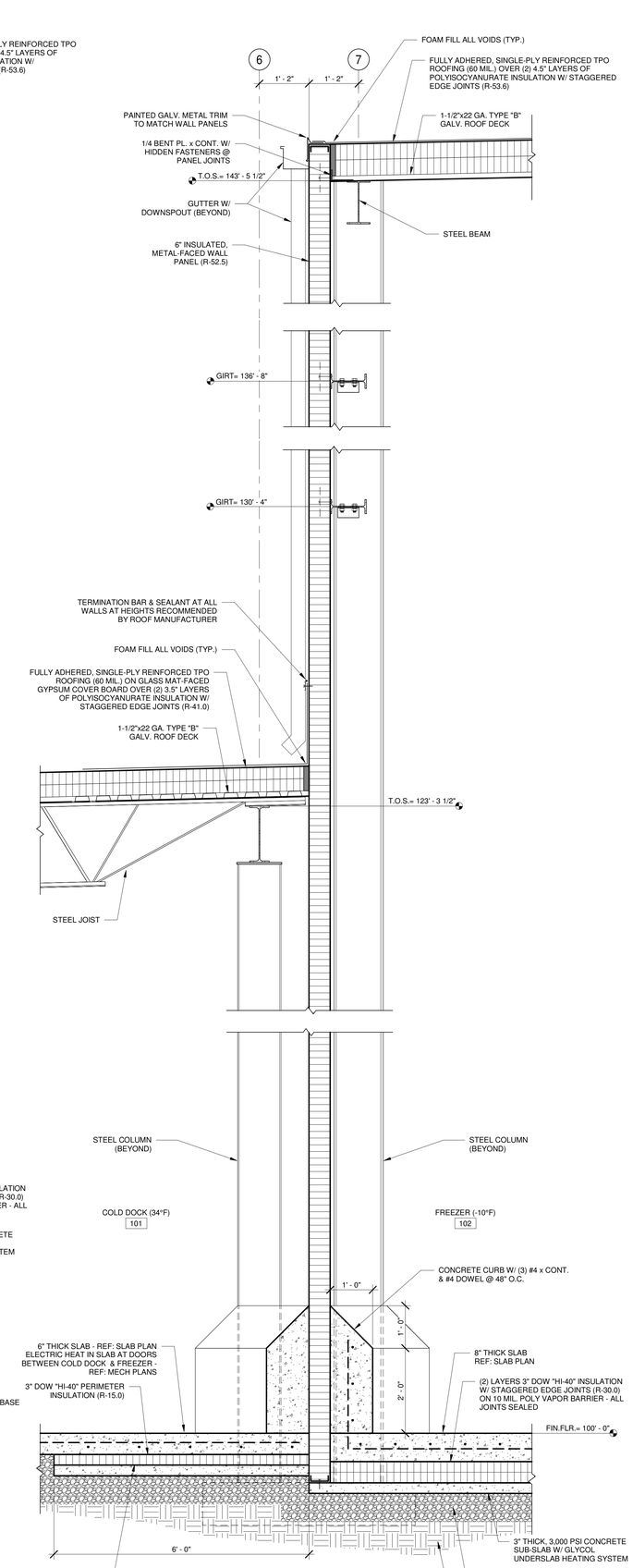
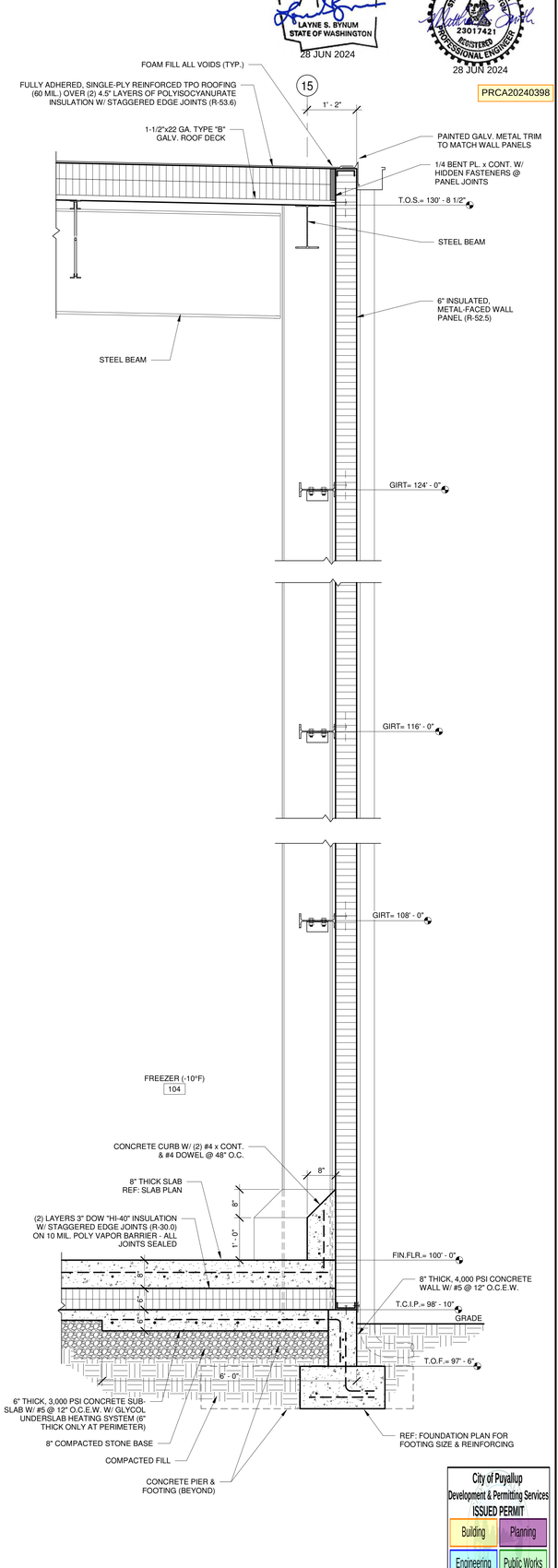


G A-302 **WALL SECTION**
SCALE: 3/4" = 1'-0"



H A-302 **WALL SECTION**
SCALE: 3/4" = 1'-0"

22038278
REGISTERED ARCHITECT
LAYNE S. BYNUM
STATE OF WASHINGTON
28 JUN 2024

MATTHEW R. SALTZER
STATE OF WASHINGTON
23017421
REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

PRCA20240398

REV	DESCRIPTION	BY	DATE
	OWNER REVIEW	VG	21 JUL 23
	30% PRICING SET	VG	25 JUL 23
	90% PROGRESS SET	CAS	29 JAN 24
A	ISSUED FOR PERMIT	CAS	06 MAR 24
B	ISSUED FOR PERMIT	CAS	15 MAY 24
	ISSUED FOR PERMIT	CAS	28 JUN 24

ENGINEERS / ARCHITECTS
1942 NORTHWOOD DRIVE, SALISBURY, MARYLAND 21801-7834
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AWB ENGINEERS

CPFD

WHITING-TURNER

WALL SECTIONS

FREEZER EXPANSION

PUYALLUP, WASHINGTON

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

SCALE	3/4" = 1'-0"
DRAWN	CAS
PROJ.MGR.	MRS
JOB	221205
SHEET	A-302

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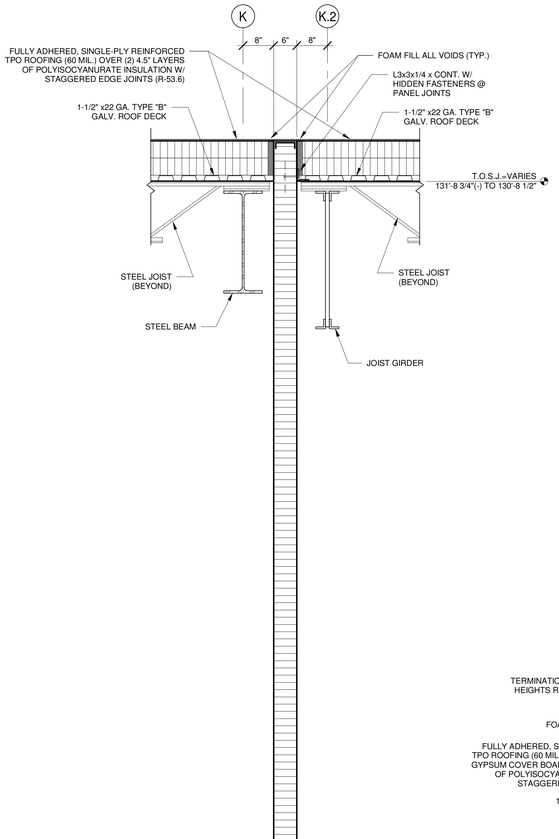
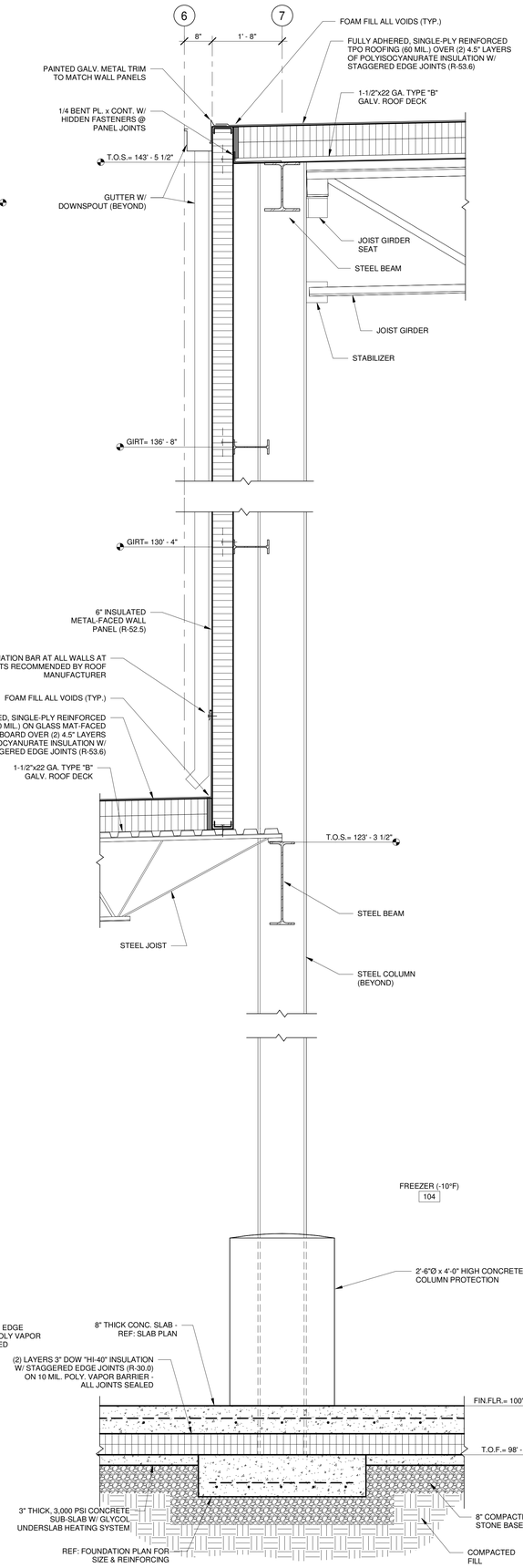
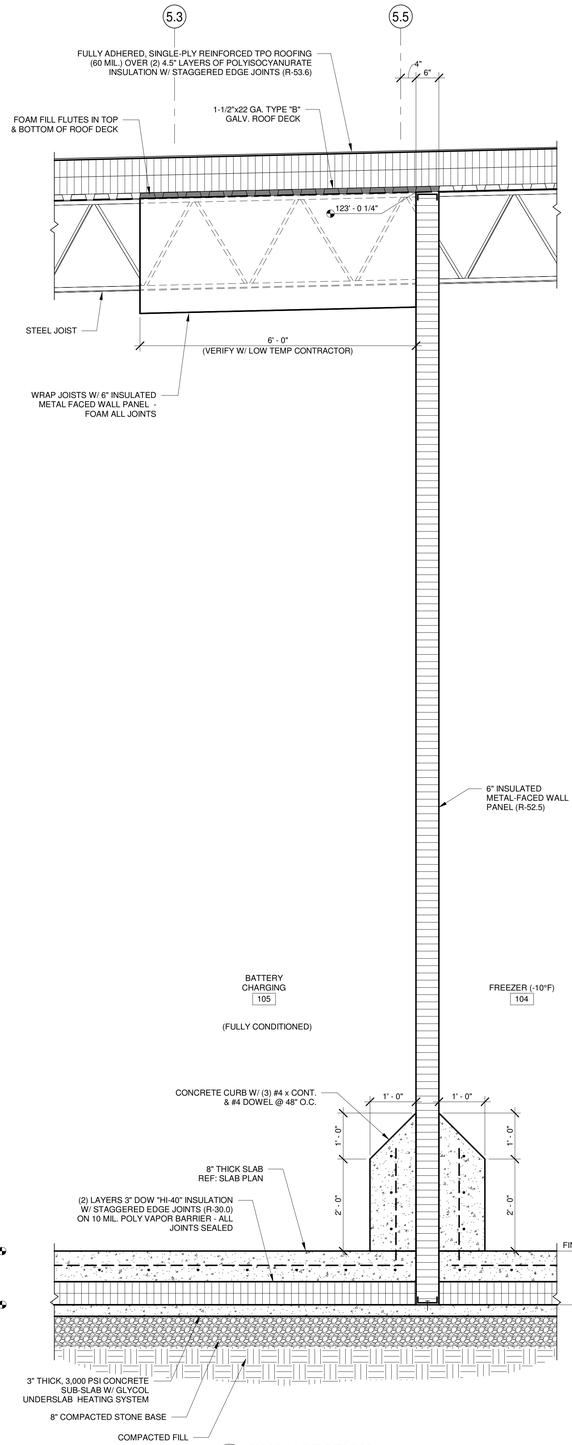
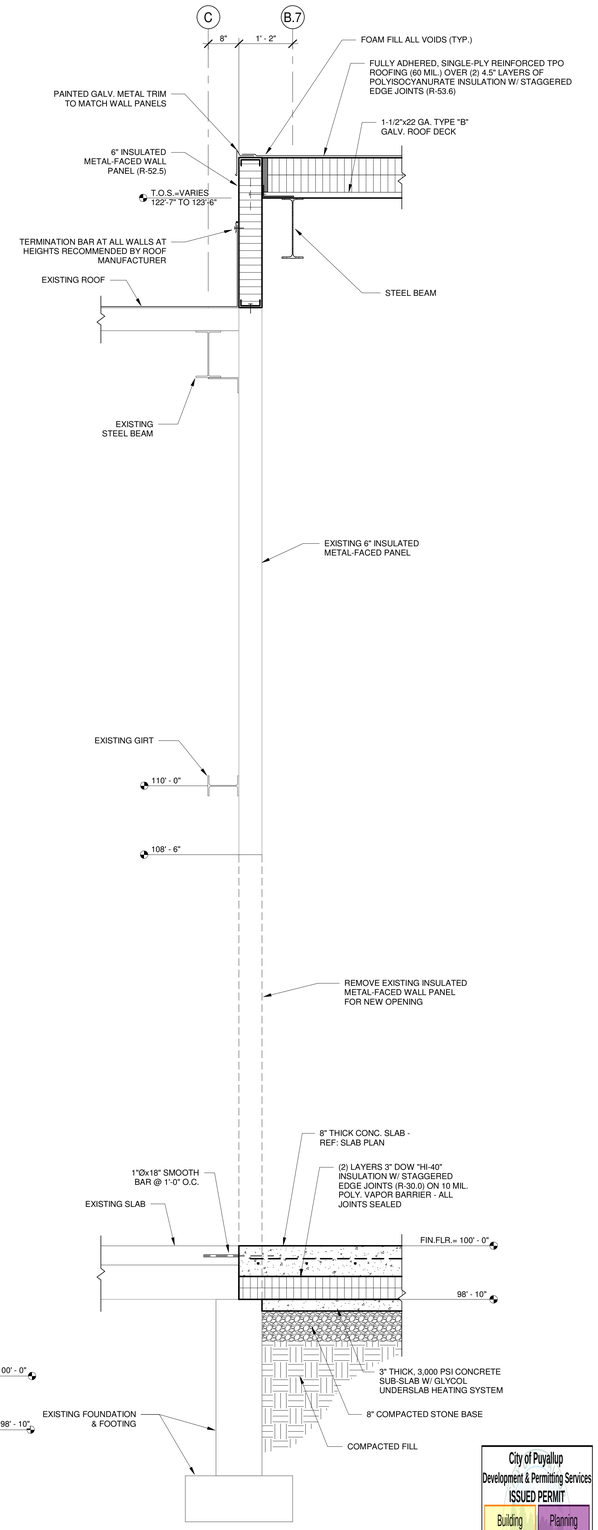
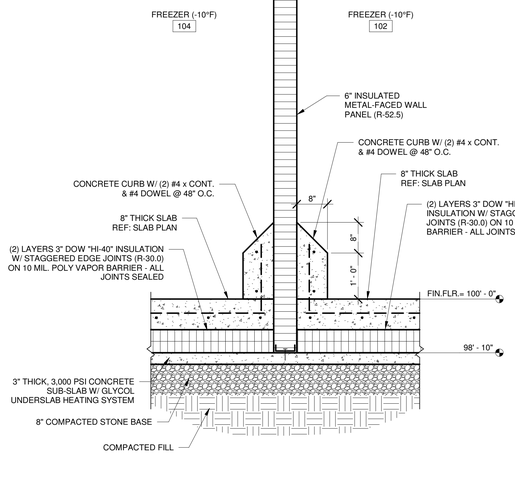
PRCA20240398





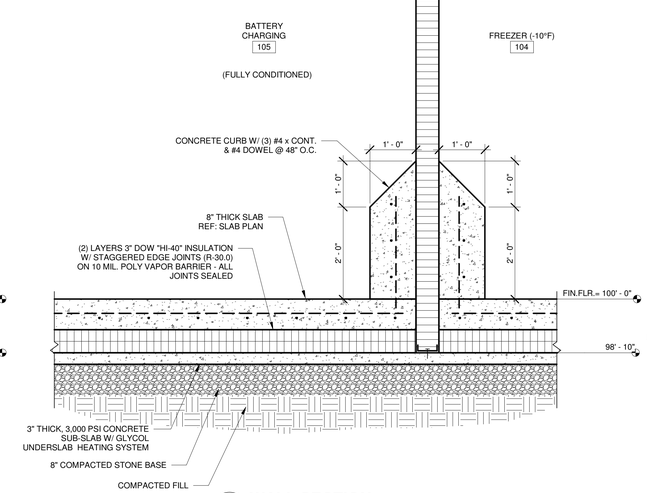






J A-303 WALL SECTION SCALE: 3/4" = 1'-0"

K A-303 WALL SECTION SCALE: 3/4" = 1'-0"



L A-303 WALL SECTION SCALE: 3/4" = 1'-0"

M A-303 WALL SECTION SCALE: 3/4" = 1'-0"

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

22038278 REGISTERED ARCHITECT
LAYNE S. BYNUM
STATE OF WASHINGTON
28 JUN 2024

MATTHEW R. SMITH
STATE OF WASHINGTON
23017421
REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

REV	DESCRIPTION	BY	DATE
	OWNER REVIEW	VG	21 JUL 23
	30% PRICING SET	VG	28 JUL 23
	90% DESIGN DOCUMENTS	CAS	25 JAN 24
A	ISSUED FOR PERMIT	CAS	06 MAR 24
	ISSUED FOR PERMIT	CAS	15 MAY 24
B	ISSUED FOR PERMIT	CAS	28 JUN 24

ENGINEERS / ARCHITECTS
1942 NORTHWOOD DRIVE, SALISBURY, MARYLAND 21801-7834
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AWB ENGINEERS

WHITING-TURNER

WALL SECTIONS

FREEZER EXPANSION
PUYALLUP, WASHINGTON

SCALE	3/4" = 1'-0"
DRAWN	CAS
PROJ.MGR.	MRS
JOB	221205
SHEET	A-303

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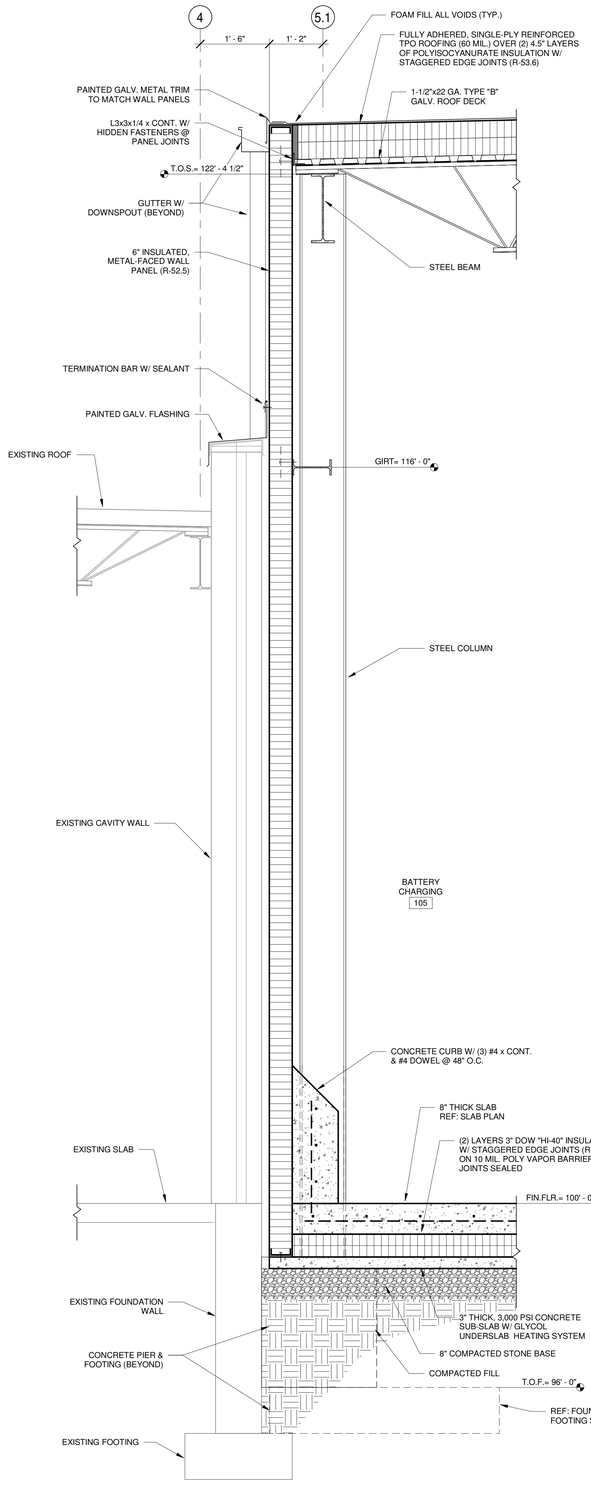
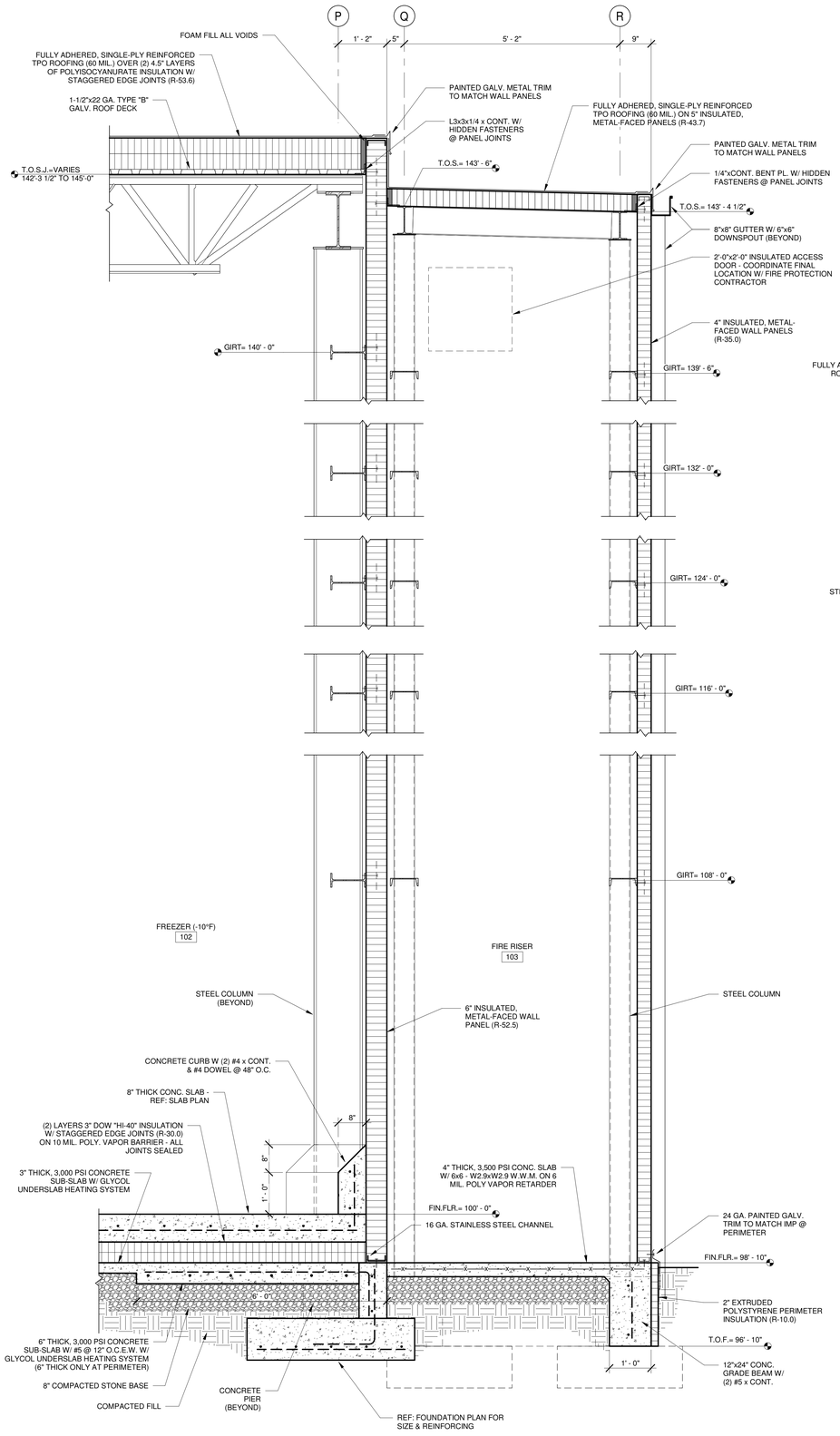
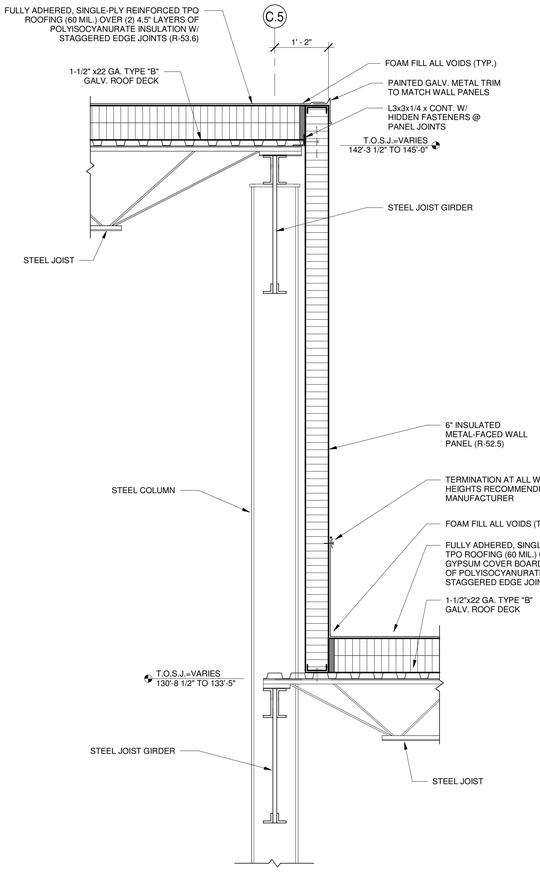
PRCA20240398



N A-304 **WALL SECTION**
SCALE: 3/4" = 1'-0"



O A-304 **WALL SECTION**
SCALE: 3/4" = 1'-0"



P A-304 **WALL SECTION**
SCALE: 3/4" = 1'-0"

22038278 REGISTERED ARCHITECT
LAYNE S. BYNUM
STATE OF WASHINGTON
28 JUN 2024

MATTHEW R. SMITH
STATE OF WASHINGTON
23017421
REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

REV	DESCRIPTION	BY	DATE
	90% DESIGN DOCUMENTS	CAS	23 FEB 24
A	ISSUED FOR PERMIT	CAS	08 MAR 24
B	ISSUED FOR PERMIT	CAS	28 JUN 24
	ISSUED FOR PERMIT	CAS	28 JUN 24

ENGINEERS / ARCHITECTS
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AWB ENGINEERS

GPD

WHITING-TURNER

WALL SECTIONS

FREEZER EXPANSION

PUYALLUP, WASHINGTON

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

SCALE	3/4" = 1'-0"
DRAWN	CAS
PROJ.MGR.	MRS
JOB	221205
SHEET	A-304

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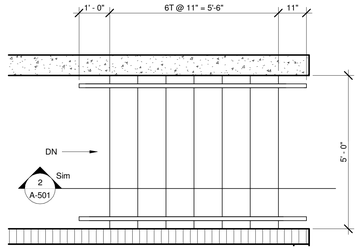
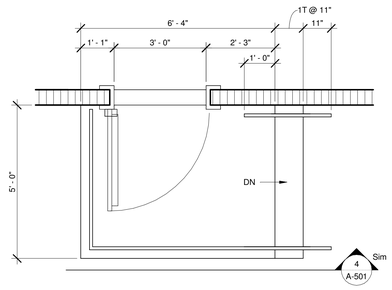
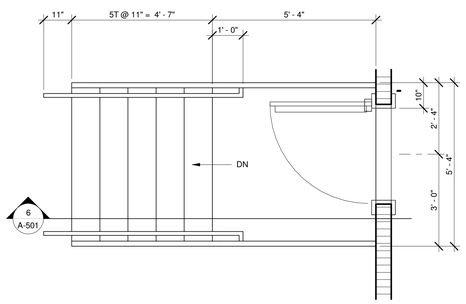
PRCA20240398



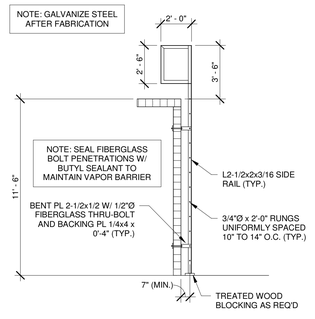
1 CONCRETE STAIR PLAN
A-501 SCALE: 1/2" = 1'-0"



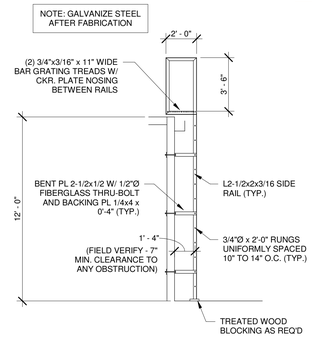
3 CONCRETE STAIR PLAN
A-501 SCALE: 1/2" = 1'-0"



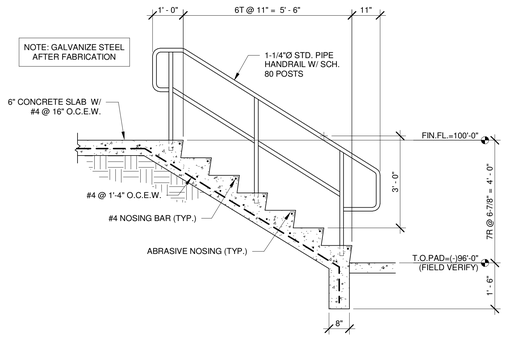
5 DOCK STAIR PLAN
A-501 SCALE: 1/2" = 1'-0"



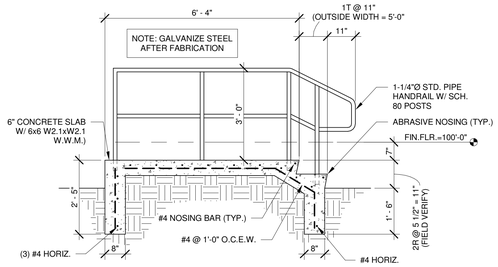
7 LADDER DETAIL 1
A-501 SCALE: 1/4" = 1'-0"



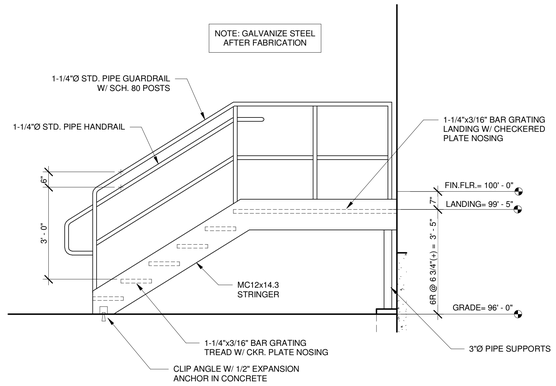
8 LADDER DETAIL 2
A-501 SCALE: 1/4" = 1'-0"



2 CONCRETE STAIR SECTION
A-501 SCALE: 1/2" = 1'-0"



4 CONCRETE STAIR SECTION
A-501 SCALE: 1/2" = 1'-0"



6 DOCK STAIR ELEVATION
A-501 SCALE: 1/2" = 1'-0"

REV	DESCRIPTION	DATE	BY
	90% DESIGN DOCUMENTS	23 FEB 24	CAS
A	ISSUED FOR PERMIT	06 MAR 24	CAS
B	ISSUED FOR PERMIT	01 APR 24	CAS
	ISSUED FOR PERMIT	28 JUN 24	CAS

ENGINEERS / ARCHITECTS
1942 NORTHWOOD DRIVE, SALISBURY, MARYLAND 21801-7834
PH: (410) 742-7299 FAX: (410) 742-0273

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AWB ENGINEERS

CPFD

WHITING-TURNER

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

22038278 REGISTERED ARCHITECT
LAYNE S. BYNUM
STATE OF WASHINGTON
28 JUN 2024

ARCHITECTURAL DETAILS

FREEZER EXPANSION
PUYALLUP, WASHINGTON

SCALE	AS NOTED
DRAWN	CAS
PROJ.MGR.	MRS
JOB	221205
SHEET	A-501

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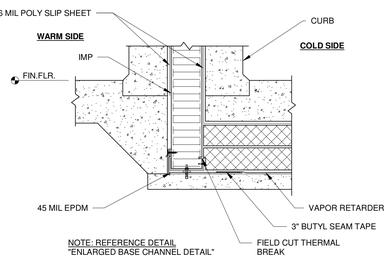
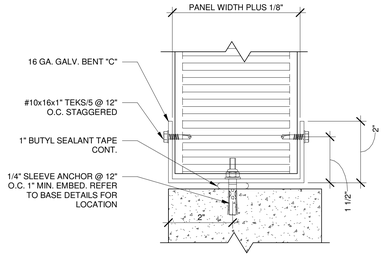
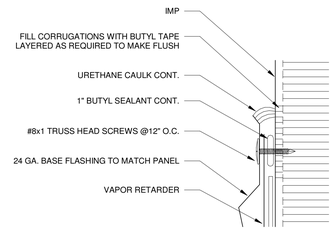
PRCA20240398



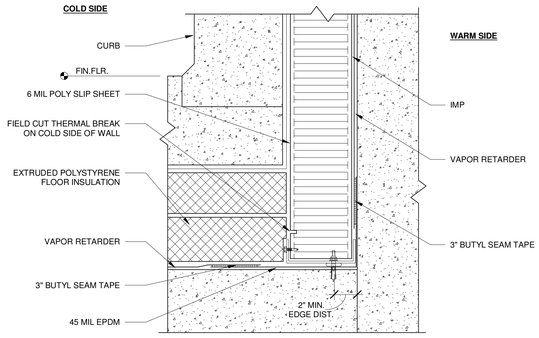
1 A-502 DOCK AMBIENT/FREEZER BASE DETAIL
SCALE: 1 1/2" = 1'-0"



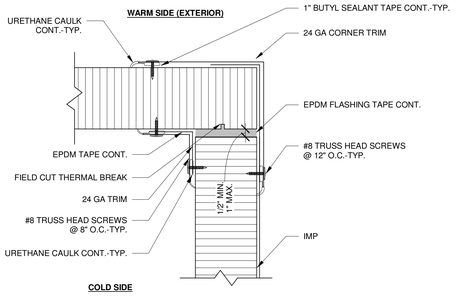
2 A-502 ENLARGED BASE CHANNEL DETAIL
SCALE: 6" = 1'-0"



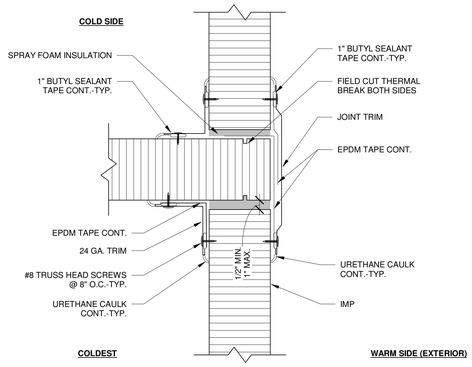
3 A-502 ENLARGED BASE FLASHING DETAIL
SCALE: 3" = 1'-0"



4 A-502 FREEZER LINER WALL BASE DETAIL
SCALE: 3" = 1'-0"

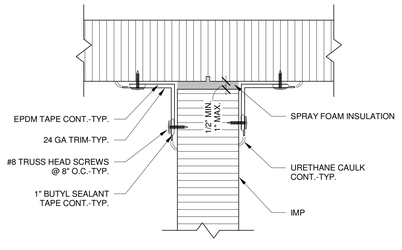


5 A-502 IMP EXTERIOR CORNER DETAIL
SCALE: 3" = 1'-0"

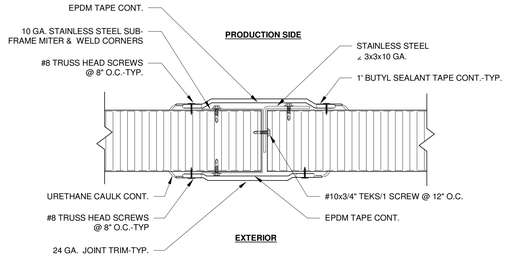


ENGINEERS NOTE:
EPDM TAPE NOT REQUIRED IN NON-PRODUCTION AREAS

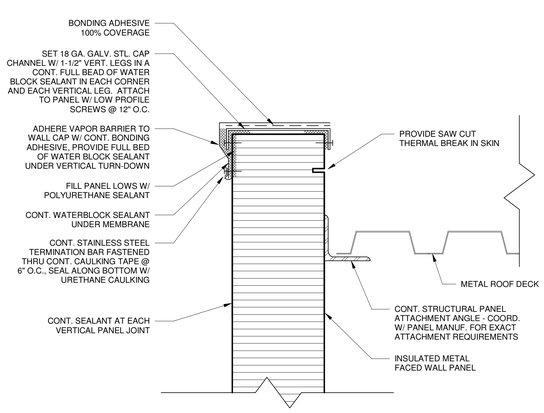
6 A-502 IMP WALL BUTT JOINT DETAIL
SCALE: 3" = 1'-0"



7 A-502 IMP WALL INTERSECTION DETAIL
SCALE: 3" = 1'-0"

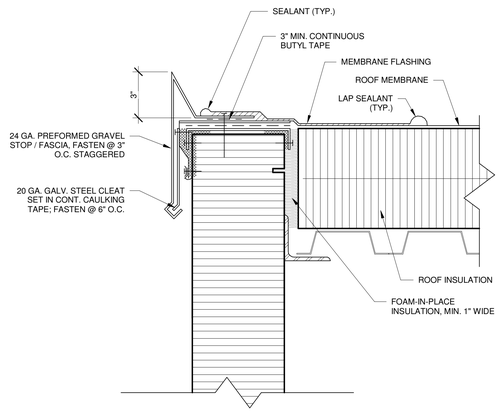


8 A-502 IMP WALL PLUG FRAMING DETAIL
SCALE: 3" = 1'-0"



WORK TO BE COMPLETED BY IMP CONTRACTOR

9 A-502 ROOF EDGE DETAIL 1
SCALE: 3" = 1'-0"



WORK TO BE COMPLETED BY ROOFING CONTRACTOR

10 A-502 ROOF EDGE DETAIL 2
SCALE: 3" = 1'-0"

REV	DESCRIPTION	DATE	BY
	OWNER REVIEW	21 JUL 23	VG
	30% PRICING SET	28 JUL 23	VG
	90% CONSTRUCTION DOCUMENTS	29 FEB 24	CAS
A	ISSUED FOR PERMIT	06 MAR 24	CAS
B	ISSUED FOR PERMIT	15 MAY 24	CAS
	ISSUED FOR PERMIT	28 JUN 24	CAS

ENGINEERS / ARCHITECTS
1402 NORTHWOOD DRIVE, SALISBURY, MARYLAND 21801-7834
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IMP DETAILS

FREEZER EXPANSION
PUYALLUP, WASHINGTON

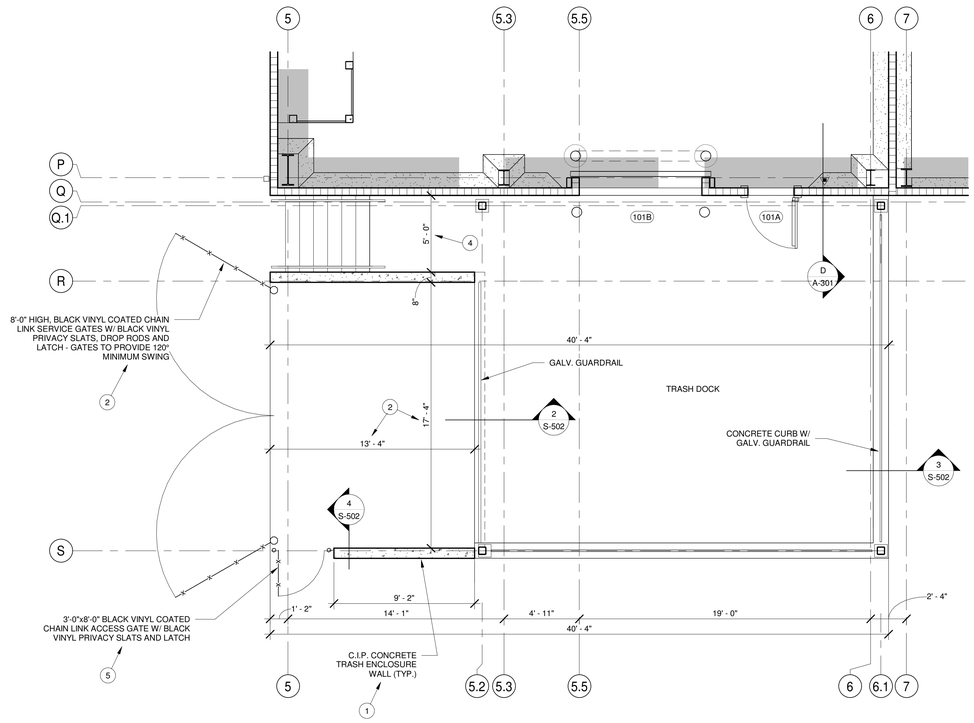
City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning | Engineering | Public Works | Fire | Traffic

22038278 REGISTERED ARCHITECT
LAYNE S. BYNUM
STATE OF WASHINGTON
28 JUN 2024

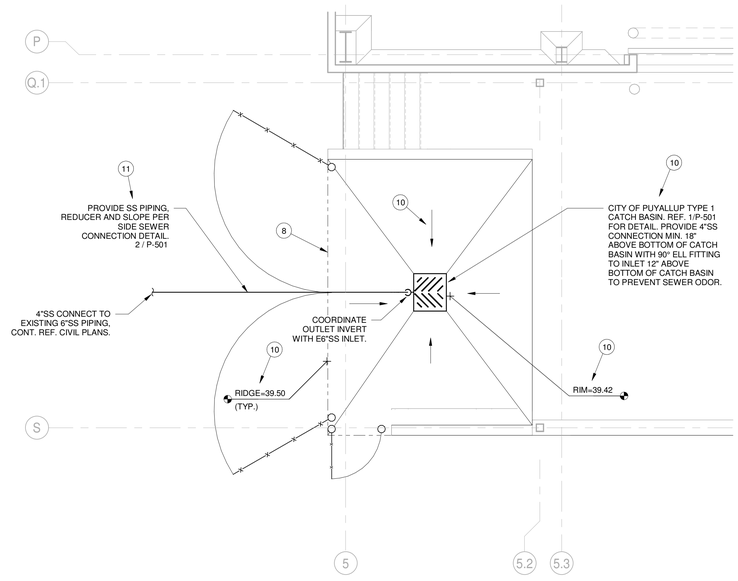
SCALE	AS NOTED
DRAWN	VG
PROJ.MGR.	MRS
JOB	221205
SHEET	A-502

6/28/2024 6:32:45 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt

PRCA20240398



TRASH ENCLOSURE FLOOR PLAN
SCALE: 1/4" = 1'-0"



TRASH ENCLOSURE PLUMBING PLAN
SCALE: 1/4" = 1'-0"

TRASH ENCLOSURE REQUIRES A SEPARTE BUILDING PERMIT

* Trash enclosure will adhere to City Standard 208 Pollution Prevention

** The floor of the trash enclosure shall slope towards the point of sanitary sewer floor drain. The interior Type 1 Catch Basin drains to the onsite sewer system See civil permit PRCCP20231136

*** A grade break shall be provided around the trash enclosure to prevent runoff from entering the enclosure

208 POLLUTION PREVENTION

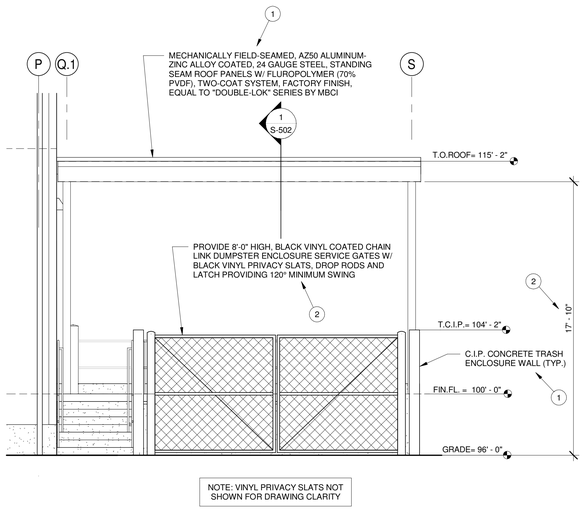
THE FOLLOWING REQUIREMENTS ARE INTENDED TO BE BEST MANAGEMENT PRACTICES (BMPs) TO PREVENT STORMWATER POLLUTION WITHIN COMMERCIAL DEVELOPMENT AND REDEVELOPMENT.

208.1 ENCLOSURES (GARBAGE, COMPACTORS, RECYCLING, ETC.)

1. ENCLOSURES (WITH ROOF) SHALL BE REQUIRED FOR ALL NEW COMMERCIAL AND REDEVELOPMENT PROJECTS WHERE MINIMUM REQUIREMENT #1 THROUGH #5 OR MINIMUM REQUIREMENT #1 THROUGH #9 ARE REQUIRED, AS OUTLINED IN THE ECOLOGY MANUAL. ENCLOSURES SHALL BE COVERED (ROOF) AND FULLY ENCLOSED TO PREVENT PRECIPITATION FROM ENTERING GARBAGE DUMPSTERS, CONTAINERS, COMPACTORS, GREASE DUMPSTERS AND THE ENCLOSURE FLOOR. THIS DOES NOT EXEMPT THE REQUIREMENT FOR WATERTIGHT CONTAINERS.
2. ENCLOSURES SHALL BE LARGE ENOUGH FOR A GARBAGE SERVICE VEHICLES TO PICK UP AND DUMP THE WASTE WITHOUT THE CONTAINER BEING ROLLED OUTSIDE THE ENCLOSURE. THE GATE OPENING SHALL BE A MINIMUM OF 12 FEET WIDE AND SWING OPEN A MINIMUM OF 120 DEGREES FROM THE CLOSED POSITION. EACH GATE SHALL ALSO INCLUDE A DROP ROD AND RECEIVING POSTS TO KEEP THE GATE FIXED, OR PINNED, IN THE OPEN AND CLOSED POSITION. THE VERTICAL CLEARANCE OF THE ROOF SHALL BE A MINIMUM OF 15 FEET AND THE MINIMUM DEPTH OF THE ENCLOSURE SHALL BE 12 FEET.
3. WHERE ONE (1) ENCLOSURE IS UTILIZED FOR BOTH GARBAGE AND RECYCLING SERVICES THE GATE OPENING SHALL BE A MINIMUM OF 25 FEET.
4. ENCLOSURES SHOULD BE LOCATED WITHIN 200' OF THE BUSINESS OR RESIDENCE IT IS SERVING.
5. ENCLOSURES SHALL BE DESIGNED TO ALLOW WALK-IN ACCESS WITHOUT HAVING TO OPEN THE MAIN SERVICE GATE.
6. ENCLOSURES FOR COMPACTORS SHALL BE DESIGNED ON A CASE-BY-CASE BASIS. THE ENCLOSURE WIDTH, DEPTH AND VERTICAL CLEARANCE SHALL BE SIZED AND EVALUATED BASED ON THE COMPACTOR AND THE USE OF THE BUSINESS OR RESIDENCE.
7. ENCLOSURES SHOULD BE STRATEGICALLY PLACED FOR ACCESSIBILITY AND DESIGNED TO ACCOMMODATE THE TURNING RADIUS OF A SU-30 SINGLE UNIT TRUCK.
8. A GRADE BREAK SHALL BE PROVIDED AROUND THE ENCLOSURE TO PREVENT RUNOFF FROM ENTERING THE ENCLOSURE.
9. NO STORMWATER CATCH BASINS OR MANHOLES SHOULD BE LOCATED WITHIN 10 FEET OF THE ENCLOSURE. IF UNAVOIDABLE THE LID SHALL BE SOLID AND LOCKING.
10. THE INTERIOR FLOOR OF THE ENCLOSURE AREA SHALL SLOPE TOWARDS A TYPE I CATCH BASIN, OR EQUIVALENT, AND BE PLUMBED TO SANITARY SEWER.
11. SIDE SEWER CONNECTIONS SHALL BE IN ACCORDANCE WITH STANDARD DETAIL 04.03.03.
12. ROOF DOWNSPOUTS FOR ENCLOSURES SHALL BE CONNECTED TO AN EXISTING OR NEW STORMWATER COLLECTION SYSTEM AND ACCOUNTED FOR DURING DESIGN. DOWNSPOUTS DISCHARGING OVER SIDEWALKS AND PARKING LOTS ARE PROHIBITED.

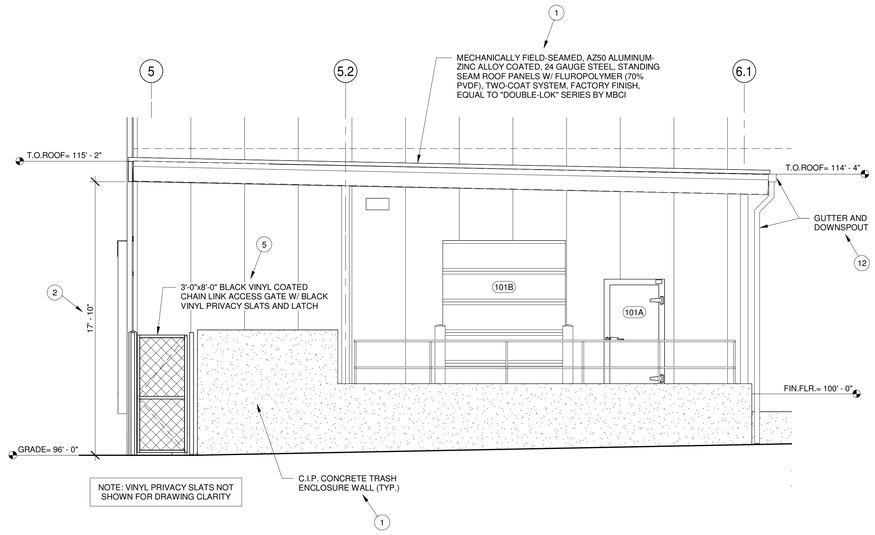
NOTE:
- (3) (6) NOT APPLICABLE
- (7) (9) REFER TO CIVIL DRAWINGS FOR COMPLIANCE DATA

NOTE: REFER TO DRAWINGS S-101, S-102, S-103, S-502 & P-501 FOR ADDITIONAL FOUNDATION, SLAB, ROOF FRAMING AND PLUMBING DATA



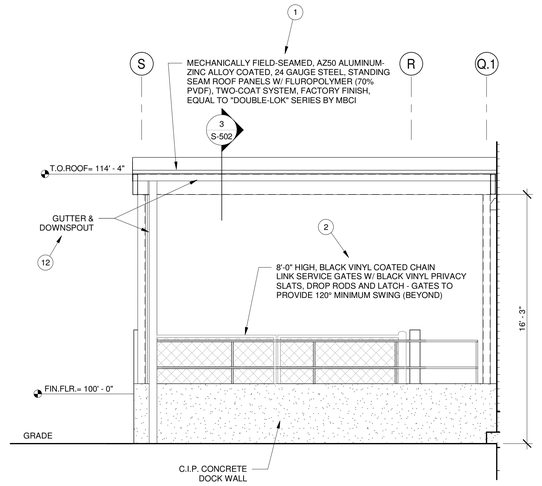
NOTE: VINYL PRIVACY SLATS NOT SHOWN FOR DRAWING CLARITY

TRASH ENCLOSURE - WEST ELEVATION
SCALE: 1/4" = 1'-0"



NOTE: VINYL PRIVACY SLATS NOT SHOWN FOR DRAWING CLARITY

TRASH ENCLOSURE - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



TRASH ENCLOSURE - EAST ELEVATION
SCALE: 1/4" = 1'-0"

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

22038278 REGISTERED ARCHITECT
LAYNE S. BYNUM
STATE OF WASHINGTON
28 JUN 2024

REV	DESCRIPTION	BY	DATE
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TRASH ENCLOSURE COMPLIANCE SUMMARY

FREEZER EXPANSION
PUYALLUP, WASHINGTON

SCALE	1/4" = 1'-0"
DRAWN	CAS
PROJ.MGR.	MRS
JOB	221205
SHEET	A-503

6/28/2024 6:33:02 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt

PRCA20240398

ROOM FINISH SCHEDULE

ROOM NO.	ROOM DESCRIPTION	FLOOR	BASE	WALLS								CEILING		REMARKS
				NORTH		SOUTH		EAST		WEST				
				MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	HEIGHT	
101	COLD DOCK (34°F)	F-1	B-1	W-1	1	W-2	2	W-2	2	W-2	2	C-1	VARIES	
102	FREEZER (-10°F)	F-1	B-1	W-1/2	1/2	W-2	2	W-2	2	W-2	2	C-1	VARIES	
103	FIRE RISER	F-1	B-2	W-2	2	W-3	2	W-3	2	W-3	2	C-1	VARIES	
104	FREEZER (-10°F)	F-1	B-1	W-2	2	W-1/2	1/2	W-2	2	W-1/2	1/2	C-1	VARIES	
105	BATTERY CHARGING	F-1	B-1	W-2	2	W-1	1	W-2	2	W-2	2	C-1	VARIES	
106	FIRE RISER	F-1	B-2	W-3	2	W-2	2	W-3	2	W-3	2	C-1	VARIES	
U01	FIRE PUMP	F-1	B-2	W-4	3	W-4	3	W-4	3	W-4	3	C-1	VARIES	

MATERIALS/FINISHES

FLOORING:

F-1 SEALED CONCRETE - HARDENER

BASE:

B-1 CONCRETE CURB
B-2 NONE REQUIRED

WALL MATERIAL:

W-1 EXISTING 6" INSULATED, METAL-FACED PANELS
W-2 6" INSULATED, METAL-FACED PANELS (R-52.5)
W-3 4" INSULATED, METAL-FACED PANELS (R-35.0)
W-4 FIRE-RETARDANT TREATED PLYWOOD ON 400S162-54 METAL STUDS @ 16" O.C. W/ 3" INSULATED, METAL-FACED PANELS @ EXTERIOR FACE (R-26.2)

WALL FINISH:

1. EXISTING TO REMAIN
2. FACTORY FINISH
3. NONE REQUIRED

CEILING:

C-1 OPEN TO STRUCTURE ABOVE

ROOM FINISH NOTES:

1. ALL CEILING HEIGHTS ARE ABOVE RESPECTIVE FINISH FLOOR ELEVATIONS.
2. INTERIOR WALL AND CEILING FINISHES IN ALL AREAS SHALL POSSESS A MINIMUM CLASS "C" RATING IN ACCORDANCE WITH ASTM E84.

DOOR SCHEDULE

DOOR NO.	DOOR				FRAME		LABEL	DETAILS				HDW SET	REMARKS
	TYPE	SIZE	THK	FINISH	MATERIAL	FINISH		HEAD	JAMB	SILL	OTHER		
101A	C	3' - 0" x 7' - 0"	4"	FACTORY PTD.	MTL. CLAD PVC	PAINTED GALV.	---	---	1	---	---	HS-1	
101B	E	9' - 0" x 10' - 0"	4"	FACTORY PTD.	BENT PL./HSS	GALVANIZED	---	---	2	---	---	HS-1	
101C	E	9' - 0" x 10' - 3 1/2"	4"	FACTORY PTD.	BENT PL./HSS	GALVANIZED	---	---	2	---	---	HS-1	
101D	E	9' - 0" x 10' - 3 1/2"	4"	FACTORY PTD.	BENT PL./HSS	GALVANIZED	---	---	2	---	---	HS-1	
101E	E	9' - 0" x 10' - 3 1/2"	4"	FACTORY PTD.	BENT PL./HSS	GALVANIZED	---	---	2	---	---	HS-1	
101F	E	9' - 0" x 10' - 3 1/2"	4"	FACTORY PTD.	BENT PL./HSS	GALVANIZED	---	---	2	---	---	HS-1	
101G	D	3' - 0" x 7' - 0"	4"	FACTORY PTD.	MTL. CLAD PVC	PAINTED GALV.	---	---	1	8	---	HS-1	
102A	D-1	3' - 0" x 7' - 0"	6"	FACTORY PTD.	MTL. CLAD PVC	PAINTED GALV.	---	---	1	8	---	HS-1	
102B	D-1	3' - 0" x 7' - 0"	6"	FACTORY PTD.	MTL. CLAD PVC	PAINTED GALV.	---	---	1	8	---	HS-1	
102C	G	8' - 0" x 18' - 0"	---	FACTORY	MTL. CLAD PVC	PAINTED GALV.	---	---	3 SIM.	---	---	HS-1	
102D	G-1	8' - 0" x 18' - 0"	---	FACTORY	MTL. CLAD PVC	PAINTED GALV.	---	---	3	---	---	HS-1	
102E	C-1	3' - 0" x 7' - 0"	6"	FACTORY PTD.	MTL. CLAD PVC	PAINTED GALV.	---	---	1	---	---	HS-1	
103A	A	3' - 0" x 7' - 0"	1 3/4"	PAINTED	HOLLOW MTL	PAINTED	---	---	4	---	---	HS-2	
104A	D-1	3' - 0" x 7' - 0"	6"	FACTORY PTD.	MTL. CLAD PVC	PAINTED GALV.	---	---	1	8	---	HS-1	
104B	D-1	3' - 0" x 7' - 0"	6"	FACTORY PTD.	MTL. CLAD PVC	PAINTED GALV.	---	---	1	8	---	HS-1	
104C	D-1	3' - 0" x 7' - 0"	6"	FACTORY PTD.	MTL. CLAD PVC	PAINTED GALV.	---	---	1	8	---	HS-1	
104D	D-1	3' - 0" x 7' - 0"	6"	FACTORY PTD.	MTL. CLAD PVC	PAINTED GALV.	---	---	1	8	---	HS-1	
104E	---	8' - 0" x 18' - 0"	---	---	MTL. CLAD PVC	PAINTED GALV.	---	---	5	---	---	---	WALL OPENING
105A	F	8' - 0" x 18' - 0"	6"	FACTORY PTD.	MTL. CLAD PVC	PAINTED GALV.	---	---	6	---	---	HS-1	
105B	---	8' - 0" x 9' - 6"	---	---	MTL. CLAD PVC	PAINTED GALV.	---	---	5	---	---	---	WALL OPENING
106A	A	3' - 0" x 7' - 0"	1 3/4"	PAINTED	HOLLOW MTL	PAINTED	---	---	4	---	---	HS-2	
U01A	B	(2) 3' - 0" x 7' - 0"	1 3/4"	PAINTED	HOLLOW MTL	PAINTED	---	---	7	---	---	HS-3	
U01B	A	3' - 0" x 7' - 0"	1 3/4"	PAINTED	HOLLOW MTL	PAINTED	---	---	7	---	---	HS-2	

HARDWARE SETS

HS-1 ALL HARDWARE BY DOOR MFGR.

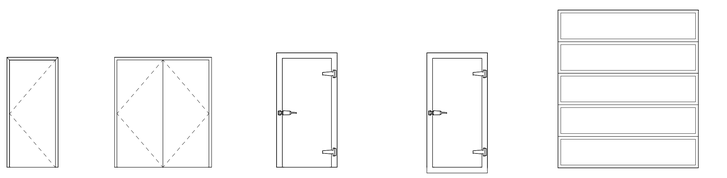
HS-2 3 - BB BUTTS x NRP x US32D
1 - STOREROOM LEVER LOCKSET (ANSI #F86) x US26D
1 - CLOSER W/ INTEGRAL STOP
1 - WEATHERSTRIP
1 - THRESHOLD
1 - SWEEP

HS-3 6 - BB BUTTS x NRP x US32
1 - STOREROOM LEVER LOCKSET (ANSI #F86) x US26D ON RHR
1 - CLOSER W/ INTEGRAL STOP & HOLD OPEN ON RHR
1 - SET HEAD & FOOT MANUAL FLUSH BOLTS x US26D ON LHR
1 - HOLD OPEN ON LHR
1 - DOOR EDGE STRIKE x US26D ON LHR
1 - WEATHERSTRIP
1 - THRESHOLD
2 - SWEEP

DOOR SCHEDULE NOTES:

1. ALL HARDWARE SHALL COMPLY WITH APPLICABLE ACCESSIBILITY REQUIREMENTS.
2. ALL EGRESS DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE AT ALL TIMES.
3. COORDINATE KEYING REQUIREMENTS WITH OWNER.
4. DOOR ASSEMBLIES SHALL BE CERTIFIED AND LABELED TO PROVIDE SPECIFIED THERMAL VALUES WHEN TESTED IN ACCORDANCE WITH APPLICABLE ENERGY CODE REQUIREMENTS.
5. PROVIDE SCHEDULED PRIME COAT AND SEMI-GLOSS ACRYLIC FINISH COATS ON HOLLOW METAL DOORS AND FRAMES INDICATED TO BE PAINTED.

DOOR TYPES



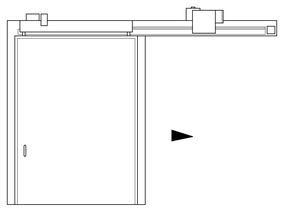
TYPE "A"
FULL FLUSH, INSULATED [U-0.36 MAX.], HOLLOW METAL

TYPE "B"
PAIR OF TYPE "A"

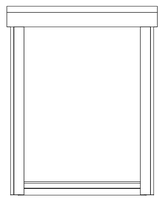
TYPE "C" & "C-1"
4" THICK [R-32.0], SWINGING, FLUSH SILL, FREEZER PERSONNEL DOOR (6" THICK [R-48.0] @ "C-1")

TYPE "D" & "D-1"
4" THICK [R-32.0], SWINGING, HIGH SILL, FREEZER PERSONNEL DOOR (6" THICK [R-48.0] @ "D-1")

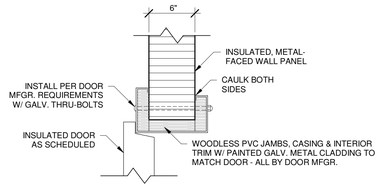
TYPE "E"
4" THICK [R-32.0], MOTOR OPERATED, METAL-FACED, SECTIONAL, VERTICAL LIFT, COLD STORAGE DOOR (INTERLOCK W/ VERTICAL STORING DOCK LEVELER WHERE APPLICABLE)



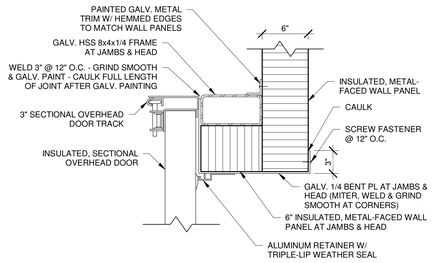
TYPE "F"
6" THICK, [R-48], MOTOR OPERATED, SINGLE-LEAF, HORIZONTAL SLIDING, FREEZER DOOR



TYPE "G" & "G-1"
HIGH LIFT, MOTOR OPERATED, HIGH SPEED ROLL-UP W/ INSULATED [R-4.0] CURTAIN (STANDARD LIFT TRACK CONFIGURATION @ "G-1")



1 A-601 **JAMB DETAIL**
SCALE: 1 1/2" = 1'-0"



2 A-601 **JAMB DETAIL**
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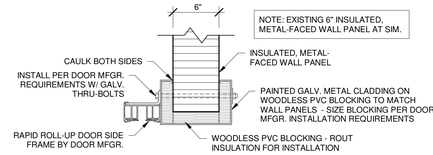

3 A-601 **JAMB DETAIL**
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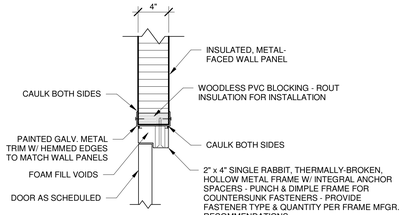
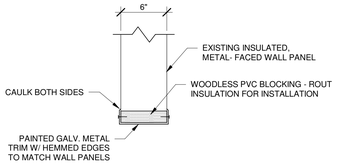
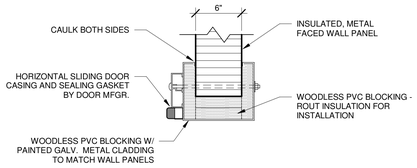


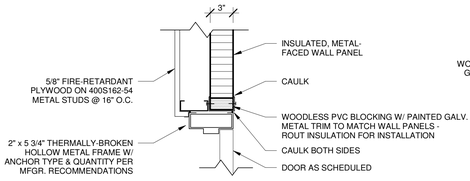
4 A-601 **JAMB DETAIL**
SCALE: 1 1/2" = 1'-0"



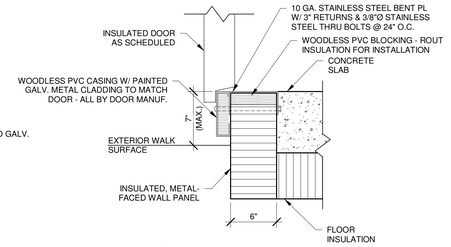
5 A-601 **JAMB DETAIL**
SCALE: 1 1/2" = 1'-0"



6 A-601 **JAMB DETAIL**
SCALE: 1 1/2" = 1'-0"



7 A-601 **JAMB DETAIL**
SCALE: 1 1/2" = 1'-0"



8 A-601 **SILL DETAIL**
SCALE: 1 1/2" = 1'-0"

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

22038278 REGISTERED ARCHITECT
LAYNE S. BYNUM
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REV	DESCRIPTION	BY	DATE
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ENGINEERS / ARCHITECTS
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PH: (410) 742-7299 FAX: (410) 742-0273

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AWB ENGINEERS

GPD

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ROOM FINISH & DOOR SCHEDULES

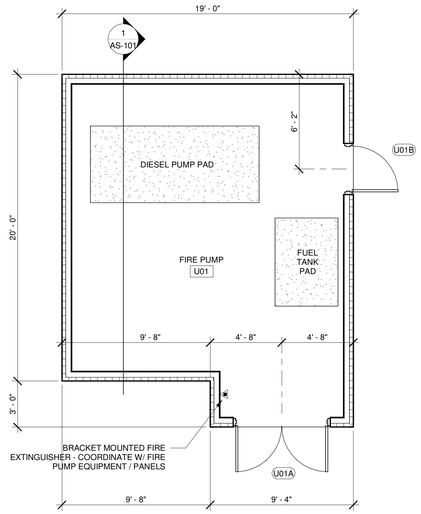
FREEZER EXPANSION

PUYALLUP, WASHINGTON

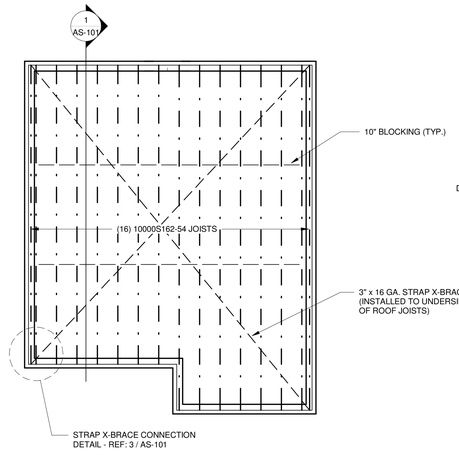
SCALE	As indicated
DRAWN	CAS
PROJ.MGR.	MRS
JOB	221205
SHEET	A-601

6/28/2024 6:33:20 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt

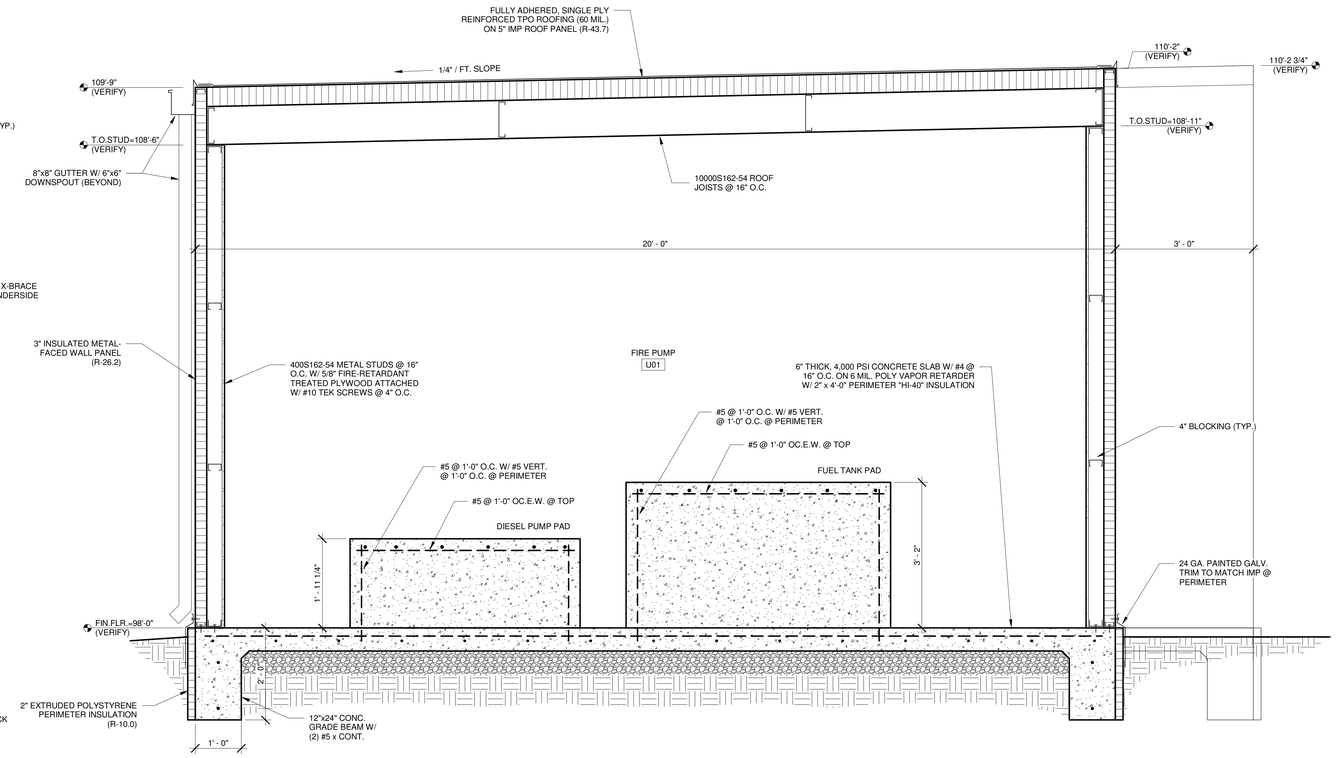
PRCA20240398



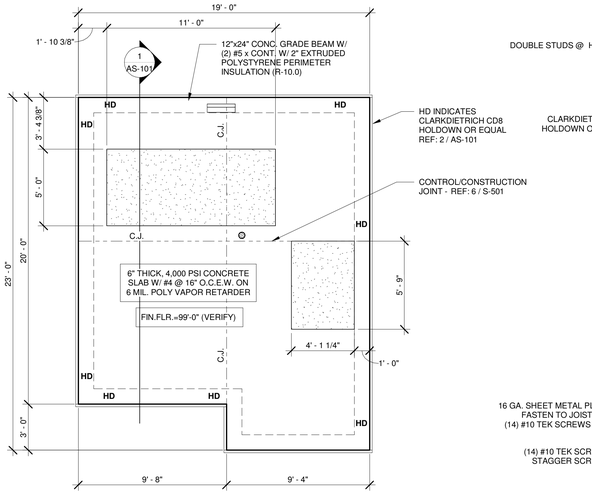
FLOOR PLAN - FIRE PUMP BUILDING
SCALE: 1/4" = 1'-0"



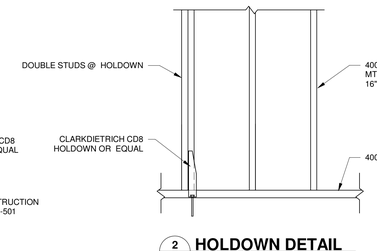
ROOF FRAMING PLAN - FIRE PUMP BUILDING
SCALE: 1/4" = 1'-0"



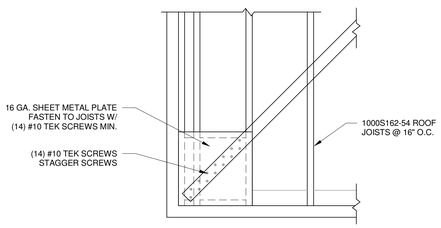
1 FIRE PUMP BUILDING SECTION
AS-101 SCALE: 3/4" = 1'-0"



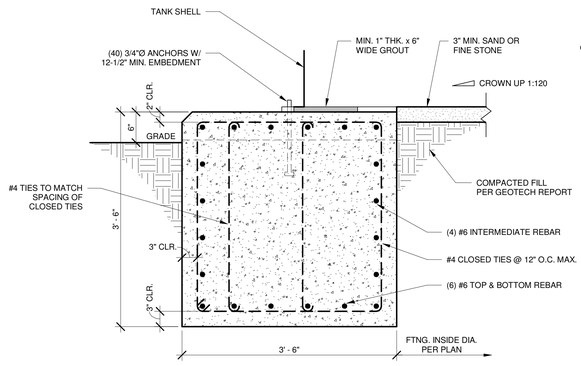
FOUNDATION/SLAB PLAN - FIRE PUMP BUILDING
SCALE: 1/4" = 1'-0"

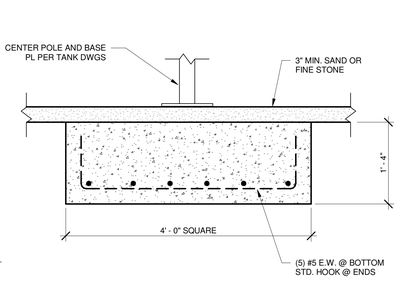


2 HOLDOWN DETAIL
AS-101 SCALE: 3/4" = 1'-0"

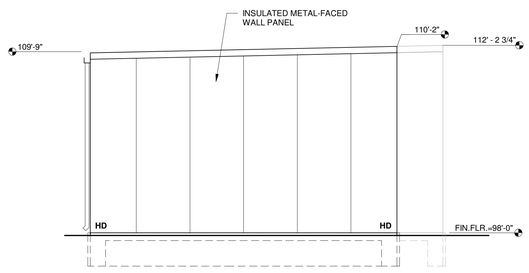


3 ROOF FRAMING X-BRACE DETAIL
AS-101 SCALE: 3/4" = 1'-0"

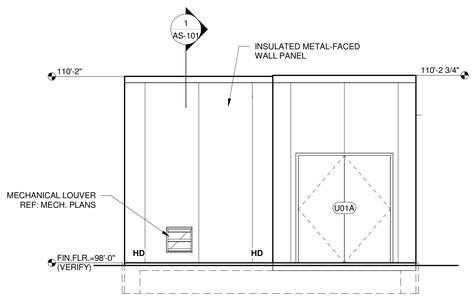




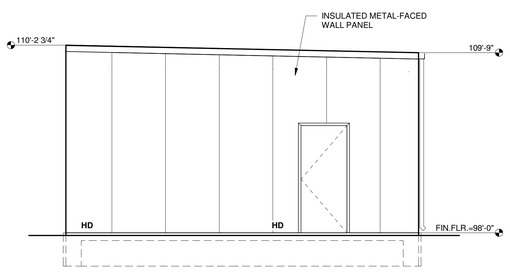
5 RING BEAM DETAIL (FIRE PROTECTION TANK)
AS-101 SCALE: 1" = 1'-0"



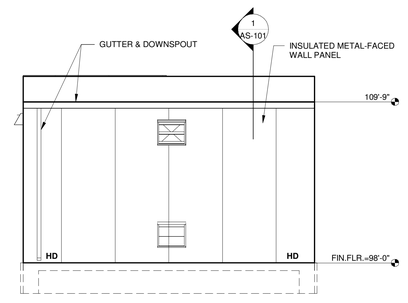
LEFT ELEVATION (SIDE)
SCALE: 1/4" = 1'-0"



ELEVATION (FRONT)
SCALE: 1/4" = 1'-0"



RIGHT ELEVATION (SIDE)
SCALE: 1/4" = 1'-0"



ELEVATION (BACK)
SCALE: 1/4" = 1'-0"

22038278 REGISTERED ARCHITECT
LAYNE S. BYNUM
STATE OF WASHINGTON
28 JUN 2024

MATTHEW R. SMITH
STATE OF WASHINGTON
23017421
REGISTERED
PROFESSIONAL ENGINEER
28 JUN 2024

REV	DESCRIPTION	DATE	BY
	90% DESIGN DOCUMENTS	23 FEB 24	CAS
A	ISSUED FOR PERMIT	08 MAR 24	CAS
	ISSUED FOR PERMIT	28 JUN 24	CAS
B	ISSUED FOR PERMIT	28 JUN 24	CAS

ENGINEERS / ARCHITECTS
1942 NORTHWOOD DRIVE, SALISBURY, MARYLAND 21801-7834
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AWB ENGINEERS

WHITING-TURNER

FIRE PUMP BUILDING

FREEZER EXPANSION
PUYALLUP, WASHINGTON

City of Puyallup
Development & Permitting Services
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SCALE	As indicated
DRAWN	CAS
PROJ.MGR.	MRS
JOB	221205
SHEET	AS-101

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PRCA20240398

PIER SCHEDULE REF: S-601

1	2'-0"x2'-0" PIER (NON-BRACED BAY)
2	2'-0"x2'-0" PIER (BRACED BAY)
3	2'-6"x2'-6" PIER (NON-BRACED BAY)
4	2'-6"x2'-6" PIER (BRACED BAY)
5	3'-0"x3'-0" PIER (BRACED BAY)
6	4'-0"x2'-6" PIER (NON-BRACED BAY)
7	5'-0"x3'-6" PIER (BRACED BAY)
8	3'-6"x2'-6" PIER (BRACED BAY)

FOOTING SCHEDULE

TYPE	SIZE	FOOTING REBAR
	<varies>	
A	3'-0"x3'-0"x1'-0"	(4) #5 BAR E.W.
B	4'-0"x4'-0"x1'-0"	(5) #5 BAR E.W.
C	5'-0"x5'-0"x1'-0	(6) #5 BAR E.W. (* INDICATES T&B)
D	6'-6"x6'-6"x1'-2"	(7) #6 BAR E.W. (*INDICATES T&B)
E	8'-0"x8'-0"x1'-0"	(8) #6 BAR E.W. T&B
F	8'-0"x6'-0"x1'-0"	(8)#6 S.W. (6) #6 L.W. T&B
G	10'-0"x6'-6"x1'-0"	(10)#6 S.W. (7)#6 L.W. T&B
H	10'-0"x10'-0"x1'-0"	(10) #6 BAR E.W. T&B
I	2'-0"x1'-0"xCONT.	(2) #5xCONT.
J	2'-6"x1'-0"xCONT.	(3) #5xCONT.

WHERE NEW FOOTINGS ABUT EXISTING, EXTEND HORIZONTAL REBAR INTO EXISTING FOUNDATION 6" MIN. & ADHERE W/ EPOXY (TYP.)

DOWEL INTO EXISTING FOUNDATION/WALL

CONC. PIER W/ REINFORCING REF: S-601

EXISTING H&V UNIT TO BE DEMOLISHED

AIR SUPPLY SHAFT EXTENSION REF: 11 / S-501 REF: 12 / S-501 REF: 17 / S-501

REV	DESCRIPTION	DATE	BY
	OWNER REVIEW	21 JUL 23	GTB
	30% PRICING SET	28 JUL 23	GTB
	PRICING RELEASE	04 JAN 24	CAS
	90% DESIGN DOCUMENTS	23 FEB 24	CAS
	ISSUED FOR PERMIT	06 MAR 24	CAS
	STRUCTURAL REVISIONS	11 MAR 24	CAS
A	ISSUED FOR PERMIT	15 MAY 24	CAS
B	ISSUED FOR PERMIT	28 JUN 24	CAS

ENGINEERS / ARCHITECTS
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WHITING-TURNER

FOUNDATION PLAN

FREEZER EXPANSION

PUYALLUP, WASHINGTON

City of Puyallup
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SCALE	As indicated
DRAWN	GTB
PROJ.MGR.	MRS
JOB	221205
SHEET	S-101

MATTHEW R. SMITH
STATE OF WASHINGTON
23017421
REGISTERED
PROFESSIONAL ENGINEER
28 JUN 2024

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28 JUN 2024

REV	DESCRIPTION	DATE	BY
	90% DESIGN DOCUMENTS	23 FEB 24	CAS
	ISSUED FOR PERMIT	08 MAR 24	CAS
A	STRUCTURAL REVISIONS	01 MAY 24	CAS
	ISSUED FOR PERMIT	15 MAY 24	CAS
B	ISSUED FOR PERMIT	28 JUN 24	CAS

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CPFD

WHITING-TURNER

SLAB PLAN

FREEZER EXPANSION

PUYALLUP, WASHINGTON

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

SCALE	As indicated
DRAWN	CAS
PROJ.MGR.	MRS
JOB	221205
SHEET	S-102

CURB LEGEND

C1 — 3'-0"x1'-0" CONC. CURB TYP. @ EXPOSED LOCATIONS REF: 13 / S-501

C2 — 1'-8"x0'-8" CONC. CURB TYP. @ BEHIND RACKS REF: 8 / S-501

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PRCA20240398

GENERAL NOTES

THE FOLLOWING SEISMIC FORCE RESISTING SYSTEMS (SFRS) ARE DESIGNED AS ORDINARY CONCENTRICALLY BRACED FRAMES (OCBF)

FRAMES ALONG GRIDLINE 6 BETWEEN GRIDLINES L & K.2
FRAMES ALONG GRIDLINE K.2 BETWEEN GRIDLINES 5.5 & 6
FRAMES ALONG GRIDLINE B.7 BETWEEN GRIDLINES 5.5 & 7
FRAMES ALONG GRIDLINE B' BETWEEN GRIDLINES 5.1 & 5.5
FRAMES ALONG GRIDLINE 5.1 BETWEEN B' AND A.3
FRAMES ALONG GRIDLINE P BETWEEN GRIDLINES 5 & 5.3

THE FOLLOWING SEISMIC FORCE RESISTING SYSTEMS (SFRS) ARE DESIGNED AS ORDINARY MOMENT FRAMES (OMF)

FRAMES ALONG GRIDLINE 5 BETWEEN GRIDLINES P & K.2

ALL OTHER BRACED FRAMES ARE DESIGNED AS SPECIAL CONCENTRICALLY BRACED FRAMES (SCBF)

CONNECTIONS, JOINTS AND FASTENERS THAT ARE PART OF SFRS AND COLLECTORS SHALL COMPLY WITH CHAPTER J OF THE STEEL CONSTRUCTION MANUAL, 14TH EDITION (AISC 360-16) AND SECTION D2 OF THE SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS (ANSI/AISC 341-16)

1. PROVIDE L3x3x3/8 FRAMES FOR ALL MECHANICAL OPENINGS THRU ROOF DECK. VERIFY QUANTITIES, SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS AND CONTRACTOR

2. ALL STRUCTURAL STEEL BEAMS SHALL BE IN ACCORDANCE WITH ASTM SPECIFICATION A992, HAVING A MINIMUM YIELD STRENGTH OF 50-KSI. ALL HSS SHALL BE A1085 GRADE A UNLESS OTHERWISE SPECIFIED.

3. INTERIOR STRUCTURAL STEEL SHALL BE SHOP PRIMED AND TOUCHED UP AFTER ERECTION.

4. THE NET UPLIFT PRESSURE ON THE STEEL JOISTS IS 10 PSF IN THE FIELD OF THE ROOF AND 15 PSF AT THE PERIMETER AND CORNERS (a=20')

5. ALL EXTERIOR STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANIZED. TOUCH UP WITH ZINC RICH PRIMER.

6. ALL ROOF DECK SHALL BE 1-1/2", 22 GA., TYPE "B" PRIME PAINTED. ATTACH DECKING TO SUPPORT STRUCTURE AS NOTED ON ROOF PLAN (A-102).

7. JOIST MANUFACTURER TO DESIGN JOIST SEAT TO RESIST 3 KIPS OF LATERAL WIND LOAD PERPENDICULAR TO EACH SEAT.

8. PROVIDE 1/2" DIA. SAG RODS AT MID-SPAN OF GIRTS (U.N.O.) FOR SUPPORT

9. WHERE K-SERIES JOISTS AND LG-SERIES JOISTS SHARE A JOIST GIRDER OR BEAM, PROVIDE A 5" SEAT ON K-SERIES JOISTS.

10. (*) INDICATES JOIST BOTTOM CHORD EXTENSION WELDED TO JOIST GIRDER BOTTOM CHORD, BEAM, OR COLUMN AFTER ROOF DEAD LOAD IS APPLIED.

Truss layout and calculations to be on site during inspections - to be reviewed prior to installation by City Inspectors - Per Ray Cockerham

NOTE: REPAIR EXISTING ROOF OPENINGS AT ROOFTOP EQUIPMENT TO BE DEMOLISHED - REMOVE AND REPLACE EXISTING ROOF MEMBRANE AT EXISTING FREEZER AND COLD DOCK TO MATCH PROPOSED MEMBRANE SYSTEM AS AN ADD ALTERNATE.

NOTE: PROVIDE GALV. STEEL FIXED ROOF ACCESS LADDERS BETWEEN FREEZER ROOF ELEVATIONS IN PROXIMITY OF COLUMNS 9/C.5 AND 9/L

REV	DESCRIPTION	DATE	BY
	OWNER REVIEW	21 JUL 23	GTB
	30% PRICING SET	28 JUL 23	GTB
	PROCESS RELEASE	16 AUG 23	CAS
	90% DESIGN DOCUMENTS	23 FEB 24	CAS
	ISSUED FOR PERMIT	06 MAR 24	CAS
A	STRUCTURAL REVISIONS	11 MAR 24	CAS
B	ISSUED FOR PERMIT	25 JUN 24	CAS
		28 JUN 24	CAS

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ROOF FRAMING PLAN
FREEZER EXPANSION
PUYALLUP, WASHINGTON

City of Puyallup
Development & Permitting Services
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SCALE	3/32" = 1'-0"
DRAWN	GTB
PROJ.MGR.	MRS
JOB	221205
SHEET	S-103

MATTHEW R. SMITH
STATE OF WASHINGTON
23017421
REGISTERED
PROFESSIONAL ENGINEER
28 JUN 2024

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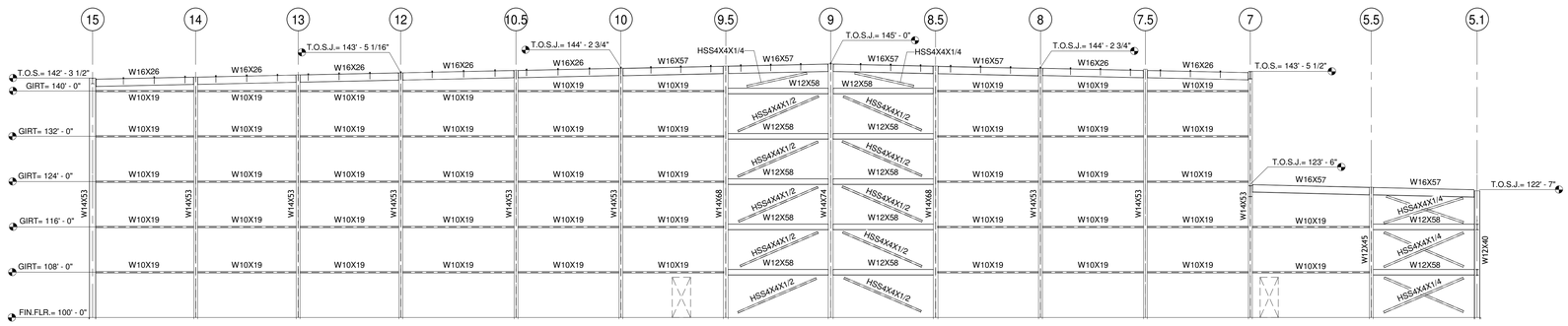
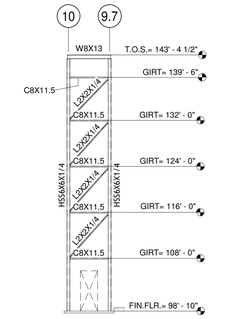
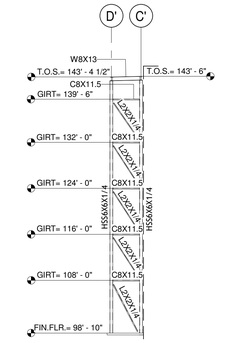


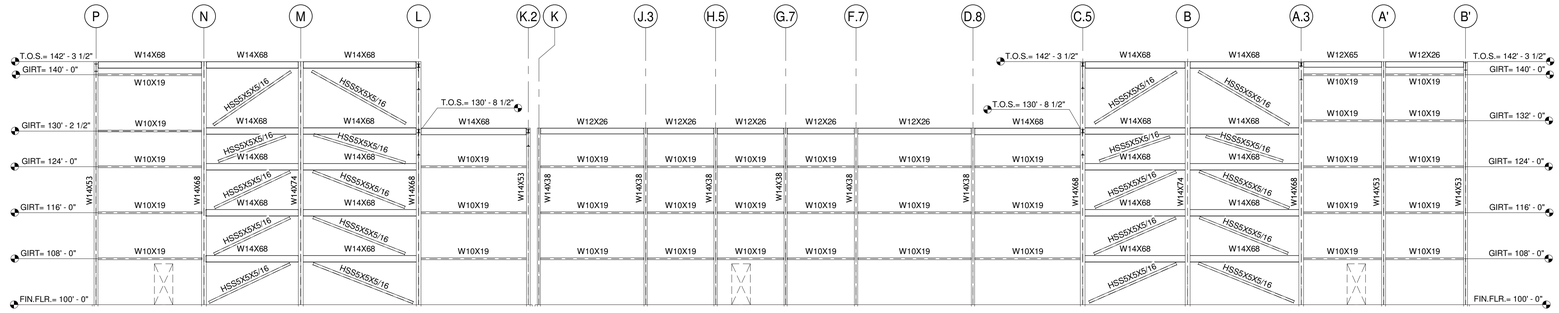
FRAMING ELEVATION @ GRID B'
SCALE: 3/32" = 1'-0"



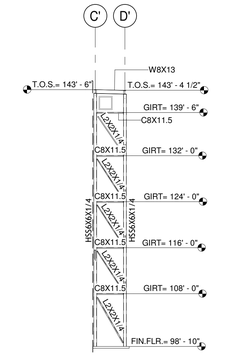
FRAMING ELEVATION @ GRID D'
SCALE: 3/32" = 1'-0"



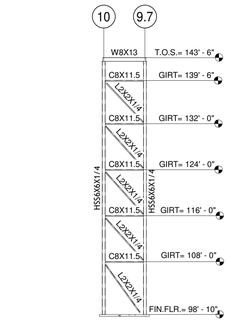
FRAMING ELEVATION @ GRID 9.7
SCALE: 3/32" = 1'-0"



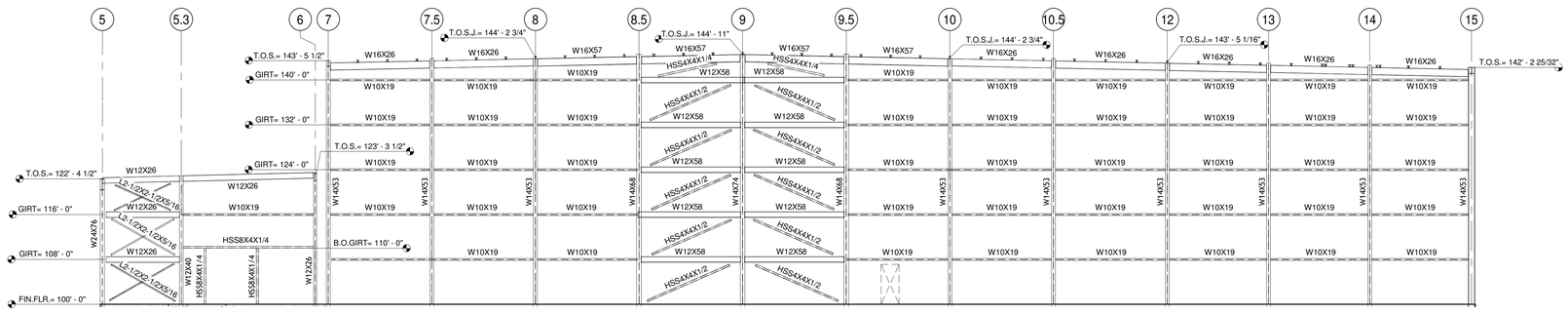
FRAMING ELEVATION @ GRID 15
SCALE: 3/32" = 1'-0"



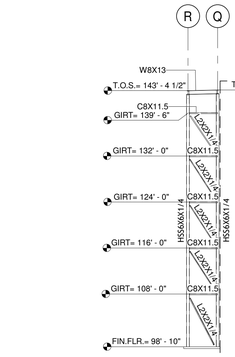
FRAMING ELEVATION @ GRID 10
SCALE: 3/32" = 1'-0"



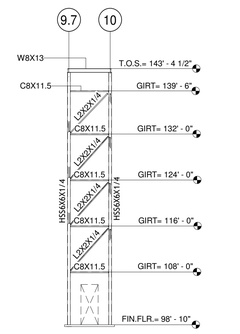
FRAMING ELEVATION @ GRID C'
SCALE: 3/32" = 1'-0"



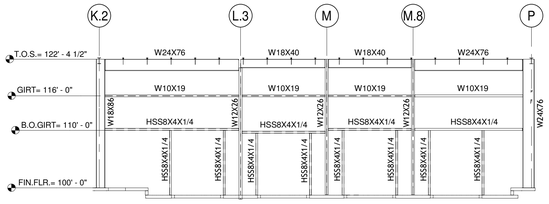
FRAMING ELEVATION @ GRID P
SCALE: 3/32" = 1'-0"



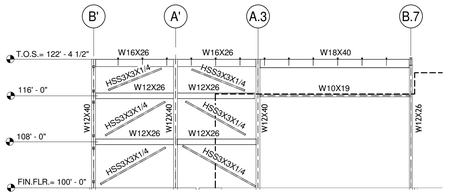
FRAMING ELEVATION @ GRID 10
SCALE: 3/32" = 1'-0"



FRAMING ELEVATION @ GRID R
SCALE: 3/32" = 1'-0"



FRAMING ELEVATION @ GRID 5.1
SCALE: 3/32" = 1'-0"



FRAMING ELEVATION @ GRID 5.1
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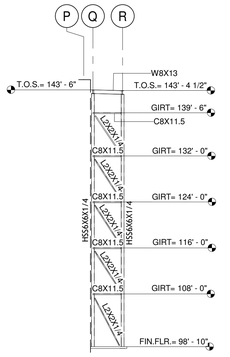

FRAMING ELEVATION @ GRID 9.7
SCALE: 3/32" = 1'-0"

Truss layout and calculations to be on site during inspections - to be reviewed prior to installation by City Inspectors - Per Ray Cockerham

SEISMIC FORCE RESISTING SYSTEM (SFRS) NOTES:

1. ALL BOLTS AT SFRS AND COLLECTORS SHALL BE INSTALLED AS PRETENSIONED HIGH-STRENGTH BOLT FOR SLIP-CRITICAL CONNECTIONS. FAYING SURFACES SHALL SATISFY THE REQUIREMENTS FOR SLIP CRITICAL CONNECTIONS IN ACCORDANCE WITH AISC (360-16), SECTION J3.8 WITH A FAYING SURFACE WITH A CLASS A SLIP COEFFICIENT OR HIGHER. BOLT HOLES SHALL BE STANDARD HOLES OR SHORT-SLOTTED HOLES PERPENDICULAR TO THE APPLIED LOAD IN BOLTED JOINT.
2. CONNECTIONS OF SFRS AND COLLECTORS MUST BE RESISTED ENTIRELY BY BOLTS OR ENTIRELY BY WELDS (NO SHARING OF FORCE) AS STATED IN SECTION D2 OF ANSI/AISC 341-16.
3. WELDED CONNECTIONS WITH THE SFRS SHALL COMPLY WITH REQUIREMENTS NOTED IN AWS D1.8.
4. ENDS OF ALL HSS MEMBERS ARE TO BE CAPPED SO THAT THERE ARE NO OPENINGS INTO HSS MEMBERS.
5. USE 3/4" MINIMUM BOLT DIAMETER.

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MATTHEW R. SMITH
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28 JUN 2024

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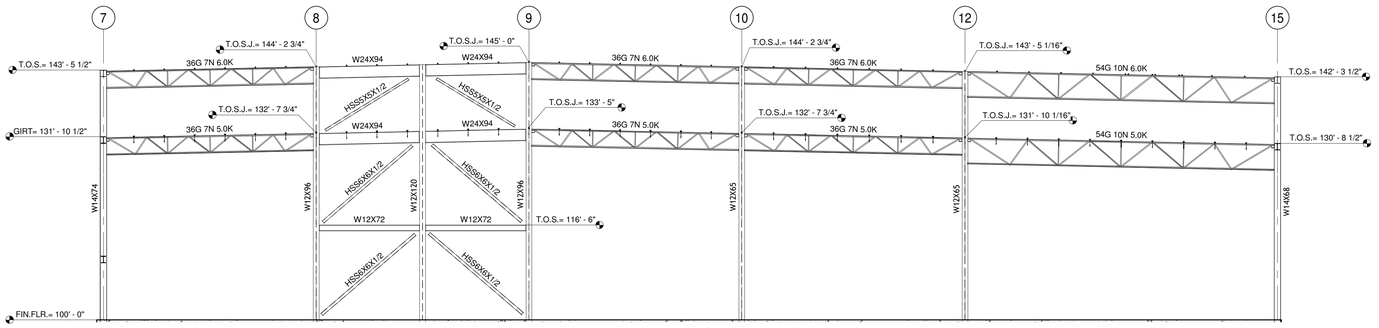
FRAMING ELEVATIONS

FREEZER EXPANSION
PUYALLUP, WASHINGTON

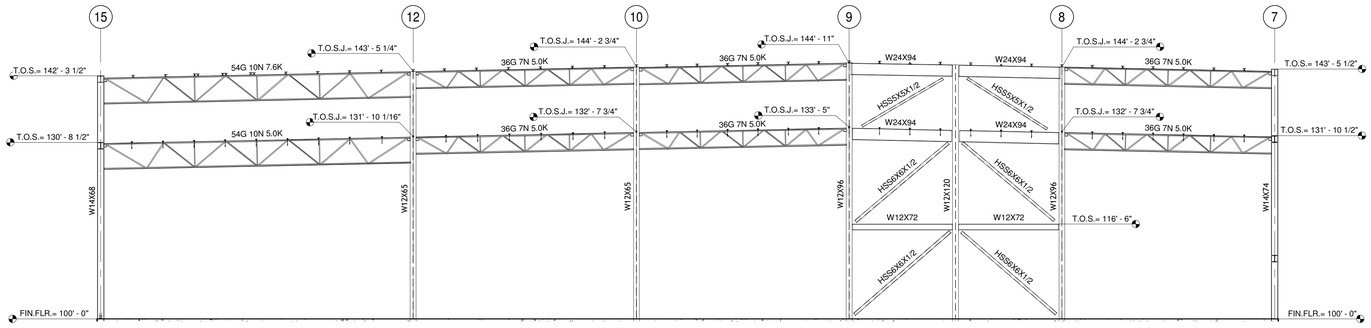
SCALE	3/32" = 1'-0"
DRAWN	CAS
PROJ.MGR.	MRS
JOB	221205
SHEET	S-201

6/28/2024 10:10:09 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt

PRCA20240398



FRAMING ELEVATION @ GRID C.5
SCALE: 3/32" = 1'-0"



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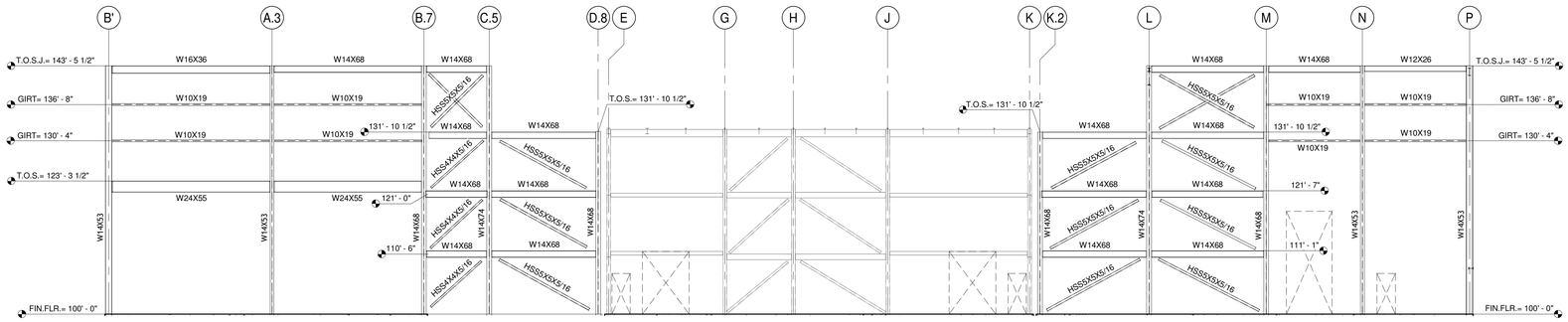

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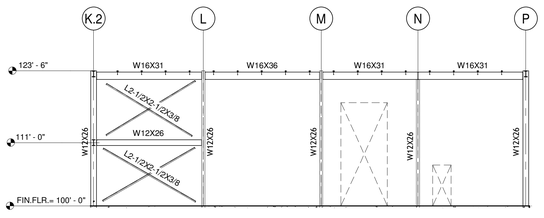

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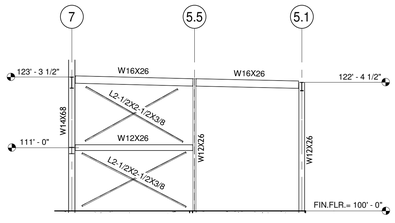

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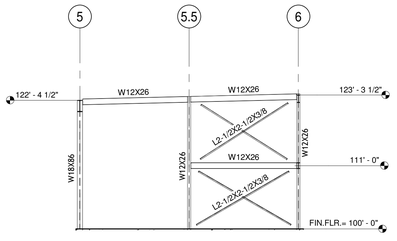

FRAMING ELEVATION @ GRID K.2
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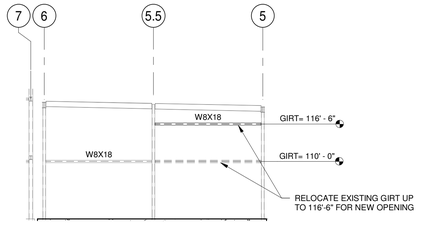

FRAMING ELEVATION @ GRID K
SCALE: 3/32" = 1'-0"

SEISMIC FORCE RESISTING SYSTEM (SFRS) NOTES:

1. ALL BOLTS AT SFRS AND COLLECTORS SHALL BE INSTALLED AS PRETENSIONED HIGH-STRENGTH BOLT FOR SLIP-CRITICAL CONNECTIONS. FAYING SURFACES SHALL SATISFY THE REQUIREMENTS FOR SLIP CRITICAL CONNECTIONS IN ACCORDANCE WITH AISC (360-16), SECTION J3.8 WITH A FAYING SURFACE WITH A CLASS A SLIP COEFFICIENT OR HIGHER. BOLT HOLES SHALL BE STANDARD HOLES OR SHORT-SLOTTED HOLES PERPENDICULAR TO THE APPLIED LOAD IN BOLTED JOINT.
2. CONNECTIONS OF SFRS AND COLLECTORS MUST BE RESISTED ENTIRELY BY BOLTS OR ENTIRELY BY WELDS (NO SHARING OF FORCE) AS STATED IN SECTION D2 OF ANSI/AISC 341-16.
3. WELDED CONNECTIONS WITH THE SFRS SHALL COMPLY WITH REQUIREMENTS NOTED IN AWS D1.8.
4. ENDS OF ALL HSS MEMBERS ARE TO BE CAPPED SO THAT THERE ARE NO OPENINGS INTO HSS MEMBERS.
5. USE 3/4" MINIMUM BOLT DIAMETER.

Truss layout and calculations to be on site during inspections - to be reviewed prior to installation by City Inspectors - Per Ray Cockerham

REV	DESCRIPTION	DATE	BY
	PROGRESS RELEASE	29 JAN 24	CAS
	90% DESIGN DOCUMENTS	22 FEB 24	CAS
	ISSUED FOR PERMIT	01 MAR 24	CAS
A	STRUCTURAL REVISIONS	11 MAR 24	CAS
	ISSUED FOR PERMIT	15 MAY 24	CAS
B	ISSUED FOR PERMIT	28 JUN 24	CAS

ENGINEERS / ARCHITECTS
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FRAMING ELEVATIONS

FREEZER EXPANSION
PUYALLUP, WASHINGTON

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

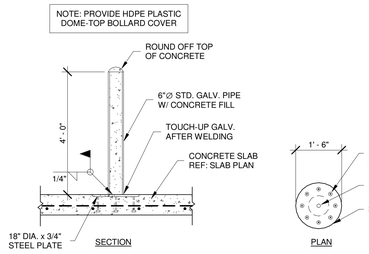
Building	Planning
Engineering	Public Works
Fire	Traffic

SCALE	3/32" = 1'-0"
DRAWN	CAS
PROJ.MGR.	MRS
JOB	221205
SHEET	S-202

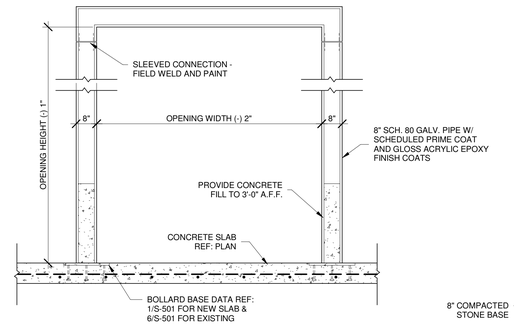
MATTHEW R. SMITH
STATE OF WASHINGTON
23017421
REGISTERED
PROFESSIONAL ENGINEER
28 JUN 2024

6/28/2024 10:10:34 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt

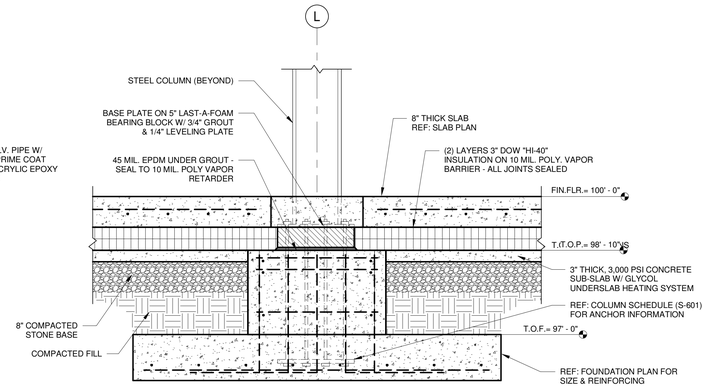
PRCA20240398



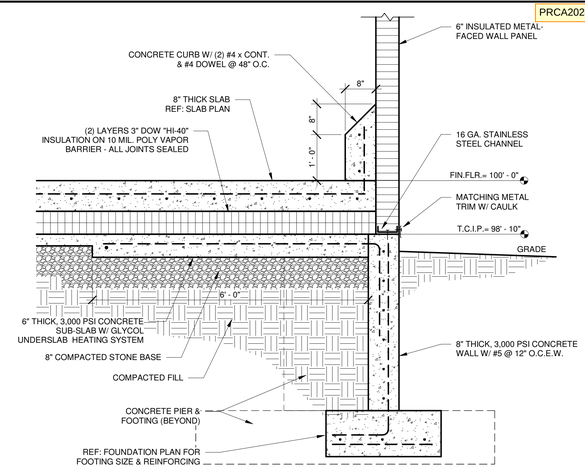
1 S-501 INTERIOR PIPE GUARD DETAIL
SCALE: 1/2" = 1'-0"



2 S-501 GOAL POST PIPE GUARD DETAIL
SCALE: 1/2" = 1'-0"



3 S-501 FREEZER FOUNDATION DETAIL (INTERIOR)
SCALE: 3/4" = 1'-0"



4 S-501 FREEZER FOUNDATION DETAIL (PERIMETER)
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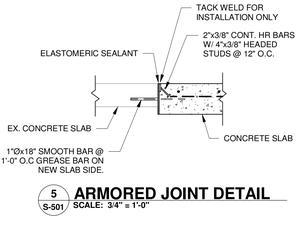
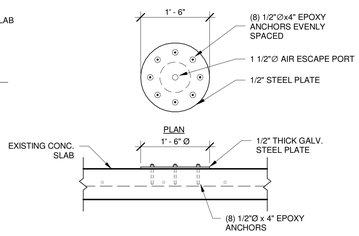
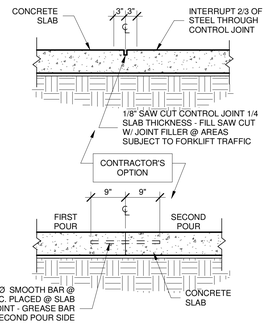


5 S-501 ARMORED JOINT DETAIL
SCALE: 3/4" = 1'-0"



7 S-501 FLOOR PLATE DETAIL (EX. SLAB)
SCALE: 3/4" = 1'-0"



6 S-501 CONTROL/CONSTRUCTION JOINT
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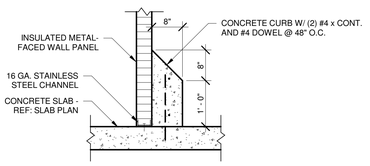
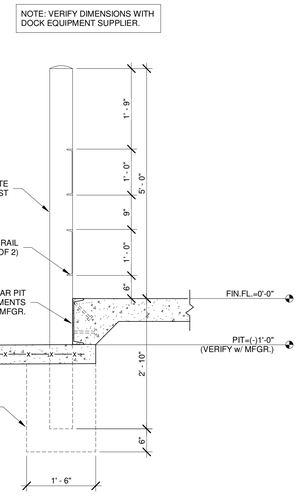


8 S-501 CONCRETE CURB DETAIL (1'-8")
SCALE: 3/4" = 1'-0"



9 S-501 DOCK CONTROL STATION
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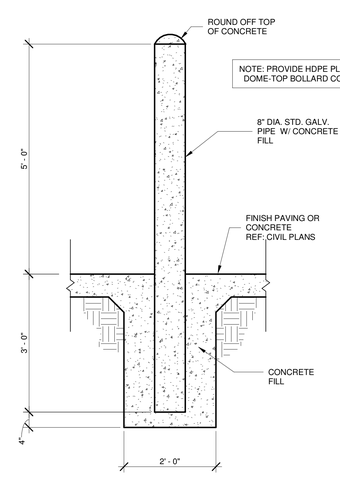

10 S-501 EXTERIOR PIPE GUARD DETAIL
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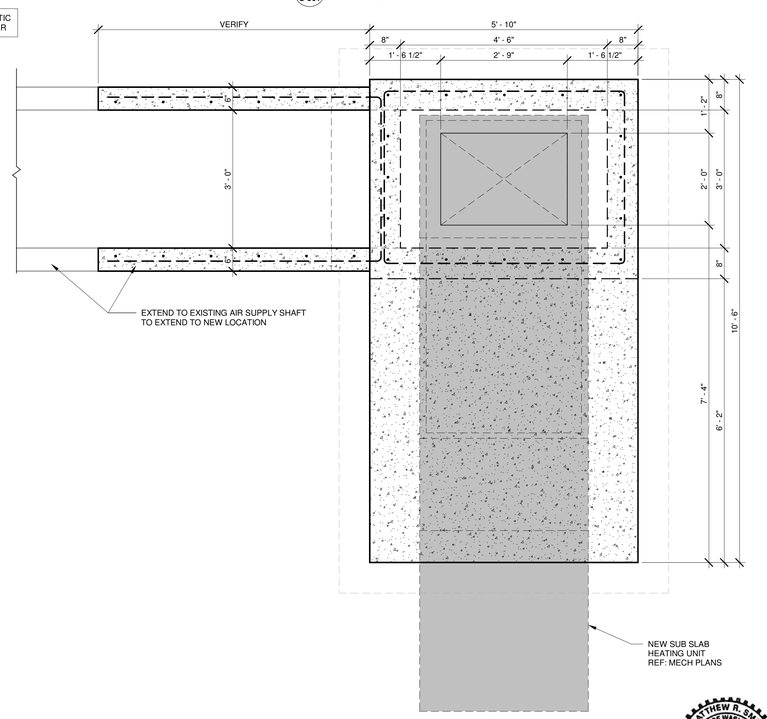
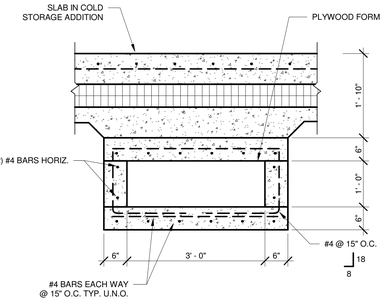
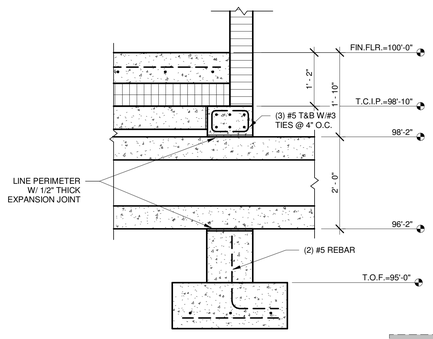


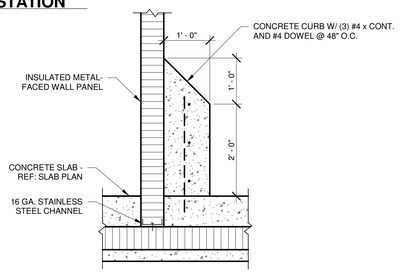
PLAN VIEW



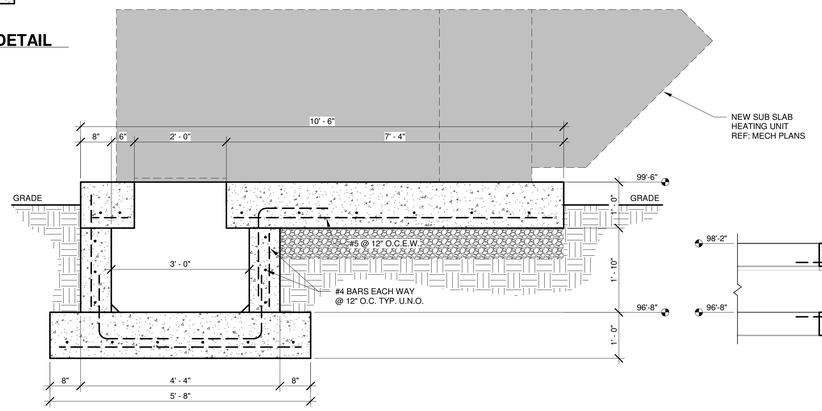
11 S-501 AIR SUPPLY SHAFT
SCALE: 3/4" = 1'-0"



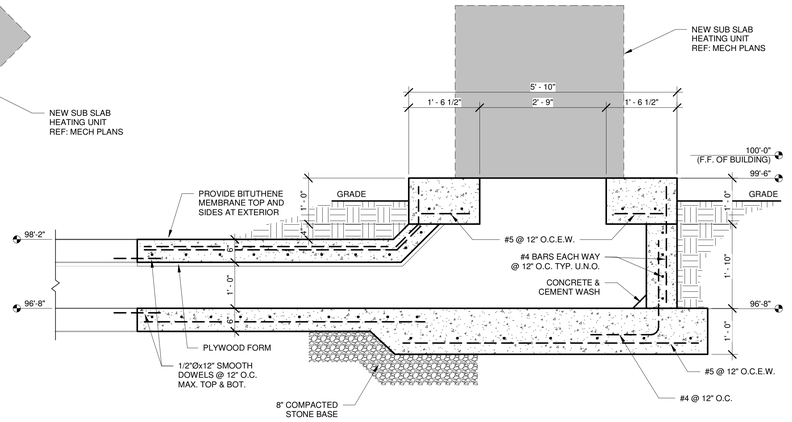
12 S-501 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



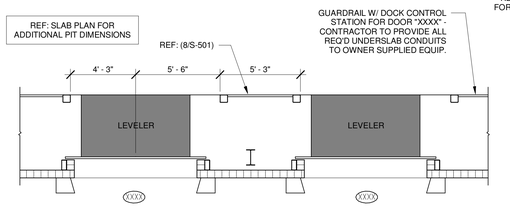
13 S-501 CONCRETE CURB DETAIL (3'-0)
SCALE: 3/4" = 1'-0"



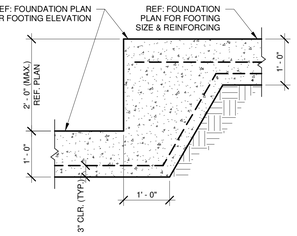
SECTION VIEW (SIDE)



SECTION VIEW (END)



15 S-501 ENLARGED DOCK PIT PLAN
SCALE: 1/4" = 1'-0"



16 S-501 STEPPED FOOTING
SCALE: 3/4" = 1'-0"

17 S-501 AIR SUPPLY SHAFT
SCALE: 3/4" = 1'-0"

REV	DESCRIPTION	DATE	BY
	OWNER REVIEW	21 JUL 23	VG
	30% PRICING SET	28 JUL 23	VG
	90% CONSTRUCTION DOCUMENTS	26 JAN 24	CAS
	ISSUED FOR PERMIT	06 MAR 24	CAS
A	STRUCTURAL REVISIONS	11 MAR 24	CAS
	ISSUED FOR PERMIT	15 MAY 24	CAS
B	ISSUED FOR PERMIT	28 JUN 24	

ENGINEERS / ARCHITECTS
1402 NORTHWOOD DRIVE, SALISBURY, MARYLAND 21801-7834
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WHITING-TURNER

FOUNDATION & SLAB DETAILS

FREEZER EXPANSION

PUYALLUP, WASHINGTON

MATTHEW R. SMITH
STATE OF WASHINGTON
23017421
REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

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

SCALE	As indicated
DRAWN	CAS
PROJ.MGR.	MRS
JOB	221205
SHEET	S-501

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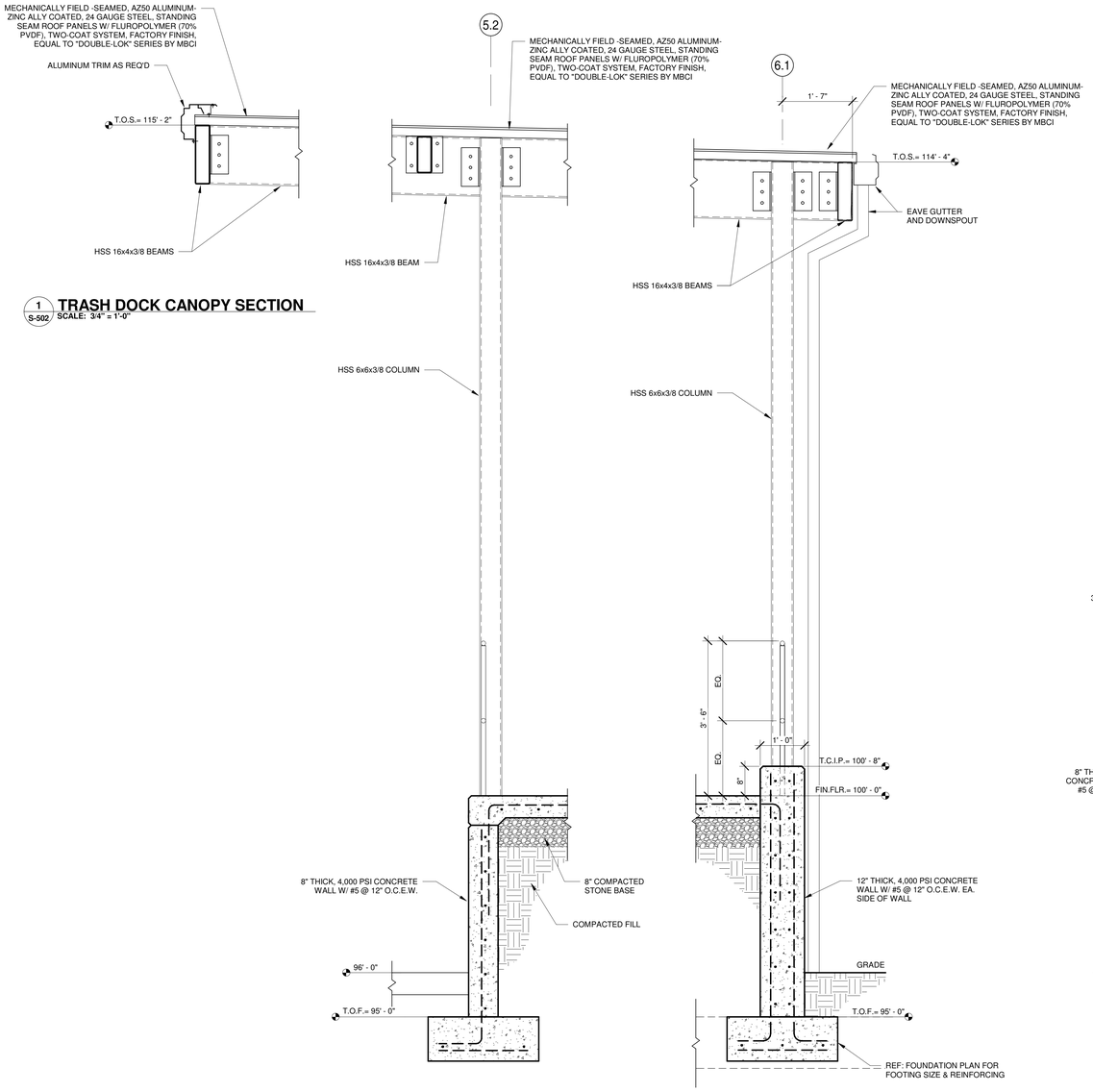
PRCA20240398

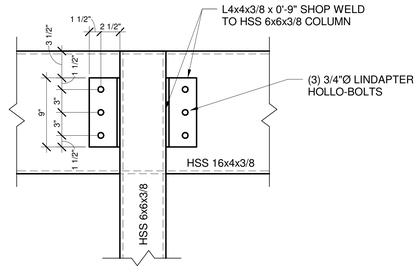


1 S-502 **TRASH DOCK CANOPY SECTION**
SCALE: 3/4" = 1'-0"

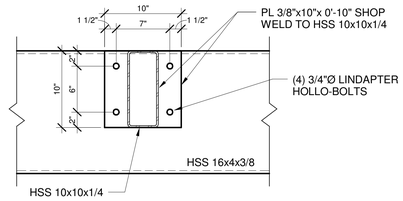
2 S-502 **TRASH DOCK CANOPY SECTION**
SCALE: 3/4" = 1'-0"

3 S-502 **TRASH DOCK CANOPY SECTION**
SCALE: 3/4" = 1'-0"

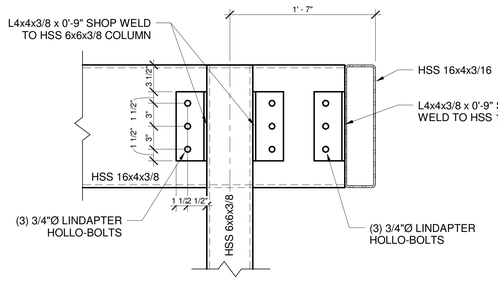
4 S-502 **TRASH DUMPSTER WALL SECTION**
SCALE: 3/4" = 1'-0"



MID SPAN COLUMN CONNECTION



ROOF MEMBER CONNECTION



CORNER COLUMN CONNECTION

5 S-502 **TRASH DOCK CANOPY BOLTED CONNECTIONS**
SCALE: 1 1/2" = 1'-0"

REV	DESCRIPTION	DATE	BY
	90% DESIGN DOCUMENTS	23 FEB 24	CAS
	ISSUED FOR PERMIT	08 MAR 24	CAS
	STRUCTURAL REVISIONS	15 MAY 24	CAS
A	ISSUED FOR PERMIT	15 MAY 24	CAS
B	ISSUED FOR PERMIT	28 JUN 24	CAS

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FOUNDATION & SLAB DETAILS

FREEZER EXPANSION
PUYALLUP, WASHINGTON

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

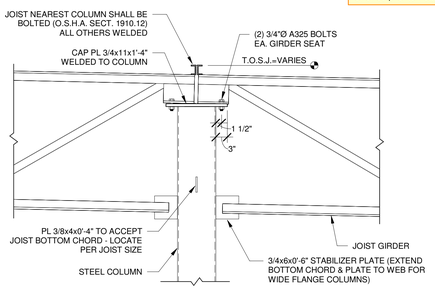
MATTHEW R. SMITH — STATE OF WASHINGTON — 23017421 — REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

SCALE	As indicated
DRAWN	CAS
PROJ.MGR.	MRS
JOB	221205
SHEET	S-502

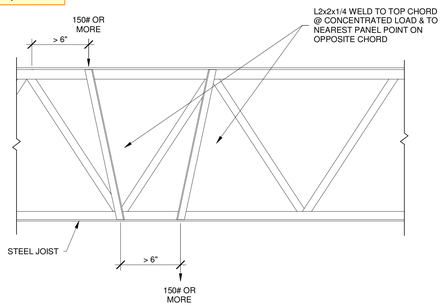
6/28/2024 6:36:18 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt

PRCA20240398

Truss layout and calculations to be on site during inspections - to be reviewed prior to installation by City Inspectors - Per Ray Cockerham

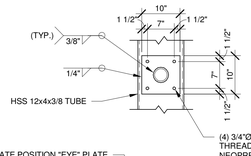


1 S-503 JOIST GIRDER BEARING DETAIL
SCALE: 3/4" = 1'-0"



2 S-503 TYPICAL JOIST REINFORCEMENT
SCALE: 3/4" = 1'-0"

Welding to be done by an individual or fabricator who is WABO certified or approved by the Building Official to perform the work. All welds must be inspected and approved by a WABO certified special inspector.



(4) 3/4"Ø STAINLESS STEEL FULLY THREADED WELDED STUDS. PROVIDE NEOPRENE FACED WASHERS BETWEEN BOLTS AND GALVANIZED PLATE

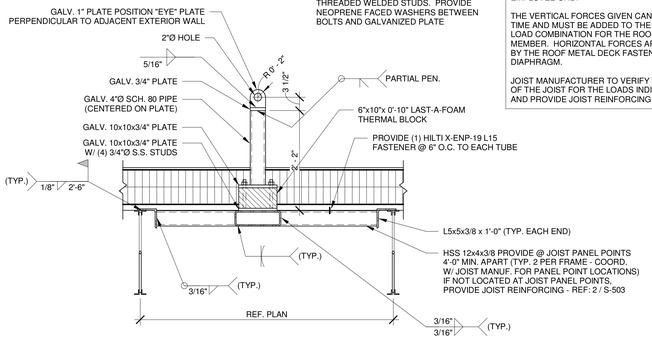
NOTE:

FALL PROTECTION ANCHOR IS DESIGNED TO SUPPORT 5000 LBS. ULTIMATE FOR A SINGLE EMPLOYEE ATTACHED TO THE EYE PLATE USING O.S.H.A. APPROVED PERSONAL FALL ARREST EQUIPMENT. FALL PROTECTION LOAD ON JOIST IS TO BE ADDED TO THE WORST CASE DESIGN LOAD COMBINATION FOR THE JOIST.

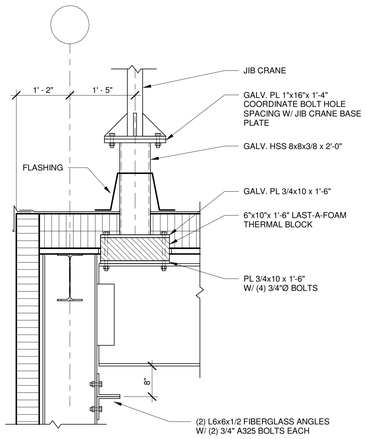
A BRASS TAG MUST BE AFFIXED TO THE FALL PROTECTION ANCHOR WITH RAISED EMBOSSING INDICATING "5000 LBS ULTIMATE - FOR ONE EMPLOYEE ONLY"

THE VERTICAL FORCES GIVEN CAN OCCUR AT ANY TIME AND MUST BE ADDED TO THE WORST CASE LOAD COMBINATION FOR THE ROOF JOIST FRAMING MEMBER. HORIZONTAL FORCES ARE SUPPORTED BY THE ROOF METAL DECK FASTENERS AND DIAPHRAGM.

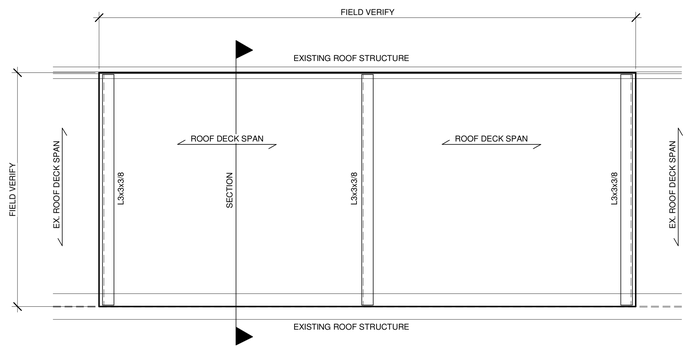
JOIST MANUFACTURER TO VERIFY THE CAPACITY OF THE JOIST FOR THE LOADS INDICATED ABOVE AND PROVIDE JOIST REINFORCING AS REQ'D.

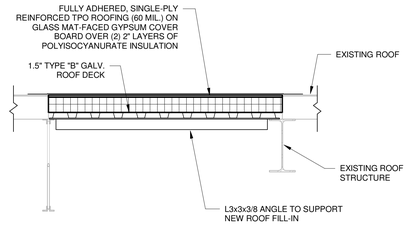


4 S-503 FALL PROTECTION ANCHOR DETAIL
SCALE: 3/4" = 1'-0"



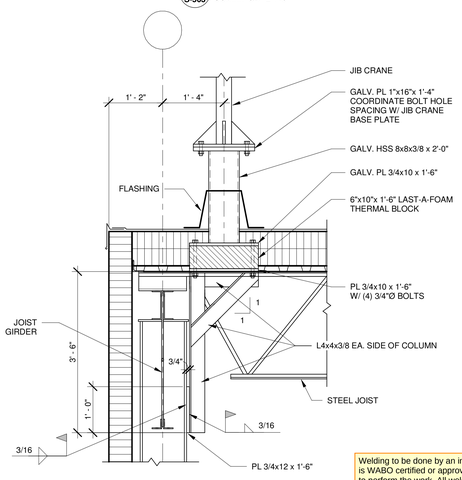
5 S-503 ROOFTOP CRANE HOIST DETAIL (TYPE-1)
SCALE: 3/4" = 1'-0"



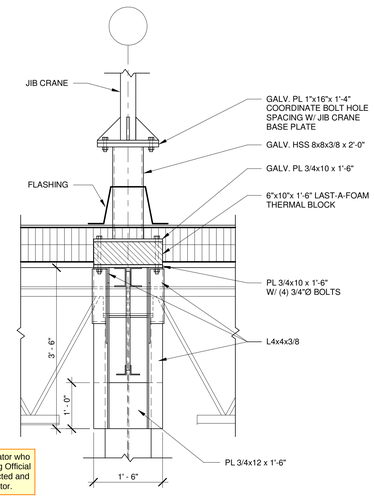


SECTION VIEW

3 S-503 EXISTING ROOF OPENING CLOSURE
SCALE: 3/4" = 1'-0"



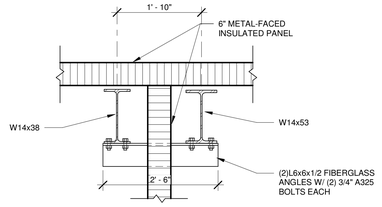
SIDE VIEW



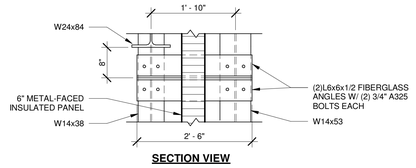
END VIEW

Welding to be done by an individual or fabricator who is WABO certified or approved by the Building Official to perform the work. All welds must be inspected and approved by a WABO certified special inspector.

6 S-503 ROOFTOP CRANE HOIST DETAIL (TYPE-2)
SCALE: 3/4" = 1'-0"

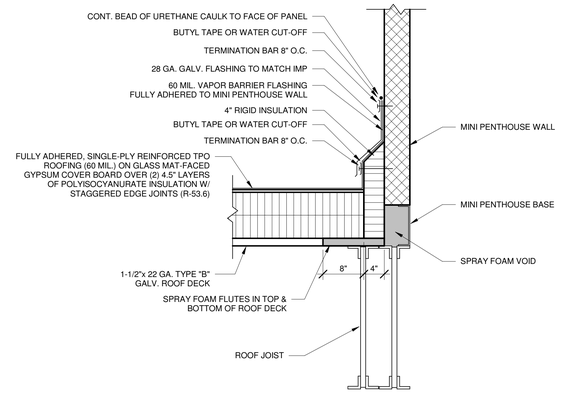


PLAN VIEW

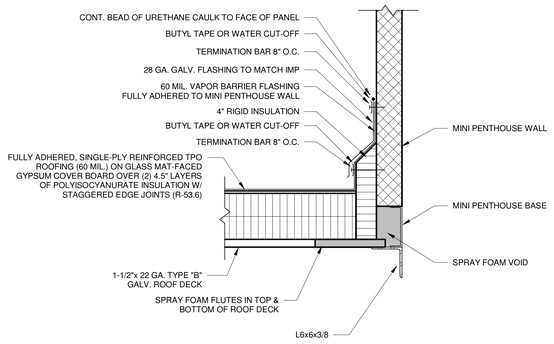


SECTION VIEW

9 S-503 DOUBLE FIBERGLASS STRUTT DETAIL
SCALE: 3/4" = 1'-0"



7 S-503 PENTHOUSE CURB (SIDE)
SCALE: 1" = 1'-0"



8 S-503 PENTHOUSE CURB DETAIL (END)
SCALE: 1" = 1'-0"

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

MATTHEW R. SMITH — STATE OF WASHINGTON — 23017421 — REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

REV	DESCRIPTION	DATE	BY
	90% DESIGN DOCUMENTS	28 FEB 24	CAS
	ISSUED FOR PERMIT	08 MAR 24	CAS
A	STRUCTURAL REVISIONS	15 MAY 24	CAS
B	ISSUED FOR PERMIT	28 JUN 24	CAS

ENGINEERS / ARCHITECTS
1902 NORTHWOOD DRIVE, SALISBURY, MARYLAND 21801-7824
PH: (410) 742-7299 FAX: (410) 742-0273
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AWB ENGINEERS

CPFD

WHITING-TURNER

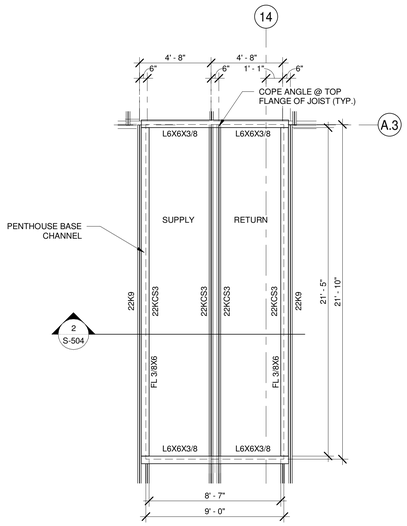
STRUCTURAL STEEL DETAILS

FREEZER EXPANSION
PUYALLUP, WASHINGTON

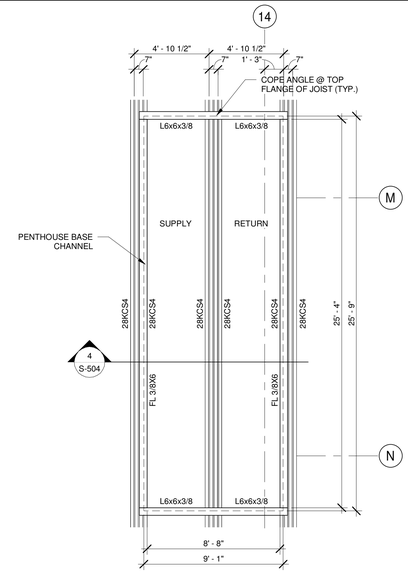
SCALE	As indicated
DRAWN	CAS
PROJ.MGR.	MRS
JOB	221205
SHEET	S-503

6/28/2024 6:36:42 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt

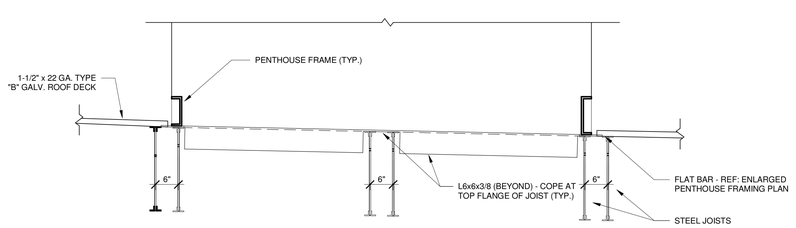
PRCA20240398



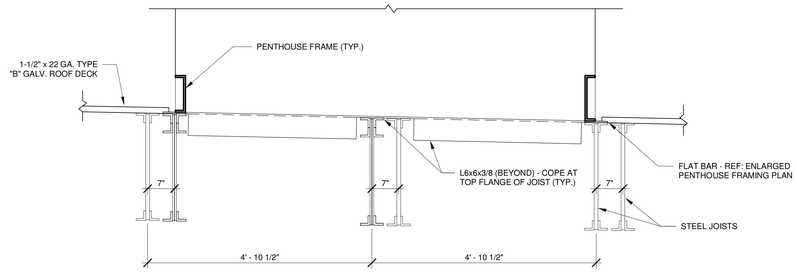
1 S-504 ENLARGED PENTHOUSE FRAMING PLAN (PH1 & PH2)
SCALE: 1/4" = 1'-0"



3 S-504 ENLARGED PENTHOUSE FRAMING PLAN (PH3)
SCALE: 1/4" = 1'-0"



2 S-504 PENTHOUSE FRAMING DETAIL (PH1 & PH2)
SCALE: 3/4" = 1'-0"



4 S-504 PENTHOUSE FRAMING DETAIL (PH3)
SCALE: 3/4" = 1'-0"

REV	DESCRIPTION	BY	DATE
A	ISSUED FOR PERMIT	CAS	15 MAY 24
B	ISSUED FOR PERMIT	CAS	28 JUN 24

ENGINEERS / ARCHITECTS
1942 NORTHWOOD DRIVE, SALISBURY, MARYLAND 21801-7824
PH: (410) 742-7299 FAX: (410) 742-0273

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AWB ENGINEERS

CPFP

WHITING-TURNER

City of Puyallup
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ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

MATTHEW R. SMITH
STATE OF WASHINGTON
23017421
REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

STRUCTURAL STEEL DETAILS

FREEZER EXPANSION
PUYALLUP, WASHINGTON

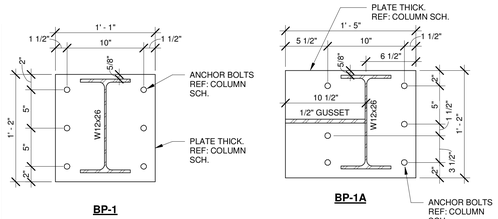
SCALE	As indicated
DRAWN	CAS
PROJ.MGR.	MRS
JOB	221205
SHEET	S-504

6/28/2024 6:37:04 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt

PRCA20240398

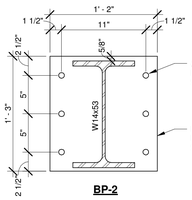
COLUMN SCHEDULE

LOCATION	TYPE	BASE PLATE DETAIL	BASE PLATE THICKNESS	ANCHOR BOLT SIZE & EMBEDMENT
A'-5.1	W14X40	BP-10	1"	1"Ø - MINIMUM 24" EMBEDMENT
A'-15	W14X53	BP-2	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
A.3-5.1	W12X40	BP-10A	1"	1"Ø - MINIMUM 24" EMBEDMENT
A.3-7	W14X53	BP-2	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
A.3-8	HSS10X10X1/4	BP-8	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
A.3-9	HSS10X10X1/4	BP-8	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
A.3-10	HSS10X10X1/4	BP-8	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
A.3-12	HSS10X10X1/4	BP-8	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
A.3-15	W14X68	BP-14A	2" (A572 GRADE 50)	1-1/2"Ø - W/ WASHER PLATE(F1554 GRADE 105) (REF:1/S-601)
B'-5.1	W12X40	BP-13	1"	1"Ø - MINIMUM 24" EMBEDMENT
B'-5.5	W12X45	BP-10A	1"	1"Ø - MINIMUM 24" EMBEDMENT
B'-7	W14X53	BP-2	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
B'-7.5	W14X53	BP-2	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
B'-8	W14X53	BP-2	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
B'-8.5	W14X68	BP-14A	2" (A572 GRADE 50)	1-1/2"Ø - W/ WASHER PLATE(F1554 GRADE 105) (REF:1/S-601)
B'-9	W14X74	BP-14	1-1/2" (A572 GRADE 50)	1"Ø - MINIMUM 24" EMBEDMENT
B'-9.5	W14X68	BP-14A	2" (A572 GRADE 50)	1-1/2"Ø - W/ WASHER PLATE(F1554 GRADE 105) (REF:1/S-601)
B'-10	W14X53	BP-2	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
B'-10.5	W14X53	BP-2	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
B'-12	W14X53	BP-2	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
B'-13	W14X53	BP-2	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
B'-14	W14X53	BP-2	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
B'-15	W14X53	BP-18	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
B-15	W14X74	BP-14	1-1/2" (A572 GRADE 50)	1"Ø - MINIMUM 24" EMBEDMENT
B.7-5.1	W12X26	BP-9	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
B.7-5.5	W12X26	BP-9A	1"	1"Ø - MINIMUM 24" EMBEDMENT
B.7-7	W14X68	BP-14B	2-1/2" (A572 GRADE 50)	1-1/2"Ø - W/ WASHER PLATE(F1554 GRADE 105) (REF:1/S-601)
C'-9.7	HSS6X6X1/4	BP-11	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
C'-10	HSS6X6X1/4	BP-11	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
C.5-7	W14X74	BP-14	2" (A572 GRADE 50)	1-1/2"Ø - W/ WASHER PLATE(F1554 GRADE 105) (REF:1/S-601)
C.5-8	W12X96	BP-15	2-1/2" (A572 GRADE 50)	1-1/2"Ø - W/ WASHER PLATE(F1554 GRADE 105) (REF:1/S-601)
C.5-8.5	W12X120	BP-20	1-1/2" (A572 GRADE 50)	1"Ø - MINIMUM 24" EMBEDMENT
C.5-9	W12X96	BP-15	2-1/2" (A572 GRADE 50)	1-1/2"Ø - W/ WASHER PLATE(F1554 GRADE 105) (REF:1/S-601)
C.5-10	W12X65	BP-4	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
C.5-12	W12X65	BP-4	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
C.5-15	W14X68	BP-14A	2" (A572 GRADE 50)	1-1/2"Ø - W/ WASHER PLATE(F1554 GRADE 105) (REF:1/S-601)
D'-9.7	HSS6X6X1/4	BP-11	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
D'-10	HSS6X6X1/4	BP-11	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
D.8-7	W14X68	BP-19	2" (A572 GRADE 50)	1-1/2"Ø - W/ WASHER PLATE(F1554 GRADE 105) (REF:1/S-601)
D.8-8	HSS8X8X1/4	BP-6	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
D.8-9	HSS8X8X1/4	BP-6	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
D.8-10	HSS8X8X1/4	BP-6	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
D.8-12.3	HSS8X8X1/4	BP-7	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
D.8-15	W14X38	BP-3	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
F.7-12.3	HSS8X8X1/4	BP-7	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
F.7-15	W14X38	BP-3	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
G.7-15	W14X38	BP-3	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
H.5-15	W14X38	BP-3	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
J.3-12.3	HSS8X8X1/4	BP-7	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
J.3-15	W14X38	BP-3	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
K-12.3	HSS8X8X1/4	BP-6	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
K-15	W14X38	BP-3	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
K.2-5	W18X86	BP-17	1"	1"Ø - MINIMUM 24" EMBEDMENT
K.2-5.5	W12X26	BP-1	1"	1"Ø - MINIMUM 24" EMBEDMENT
K.2-6	W12X26	BP-9B	1"	1"Ø - MINIMUM 24" EMBEDMENT
K.2-7	W14X68	BP-19	2" (A572 GRADE 50)	1-1/2"Ø - W/ WASHER PLATE(F1554 GRADE 105) (REF:1/S-601)
K.2-8	HSS8X8X1/4	BP-6	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
K.2-9	HSS8X8X1/4	BP-6	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
K.2-10	HSS8X8X1/4	BP-6	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
K.2-12.3	HSS8X8X1/4	BP-6	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
K.2-15	W14X53	BP-18	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
L-6	W12X26	BP-1A	1"	1"Ø - MINIMUM 24" EMBEDMENT
L-7	W14X74	BP-14	2" (A572 GRADE 50)	1-1/2"Ø - W/ WASHER PLATE(F1554 GRADE 105) (REF:1/S-601)
L-8	W12X96	BP-15	2-1/2" (A572 GRADE 50)	1-1/2"Ø - W/ WASHER PLATE(F1554 GRADE 105) (REF:1/S-601)
L-8.5	W12X120	BP-20	1-1/2" (A572 GRADE 50)	1"Ø - MINIMUM 24" EMBEDMENT
L-9	W12X96	BP-15	2-1/2" (A572 GRADE 50)	1-1/2"Ø - W/ WASHER PLATE(F1554 GRADE 105) (REF:1/S-601)
L-10	W12X65	BP-4	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
L-12	W12X65	BP-4	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
L-15	W14X68	BP-14A	2" (A572 GRADE 50)	1-1/2"Ø - W/ WASHER PLATE(F1554 GRADE 105) (REF:1/S-601)
L.3-5	W12X26	BP-1	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
M-5	W12X26	BP-1	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
M-6	W12X26	BP-1	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
M-7	W14X68	BP-14A	2" (A572 GRADE 50)	1-1/2"Ø - W/ WASHER PLATE(F1554 GRADE 105) (REF:1/S-601)
M-15	W14X74	BP-14	1-1/2" (A572 GRADE 50)	1"Ø - MINIMUM 24" EMBEDMENT
M.8-5	W12X26	BP-1	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
N-6	W12X26	BP-1	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
N-7	W14X53	BP-2	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
N-15	W14X68	BP-14A	2" (A572 GRADE 50)	1-1/2"Ø - W/ WASHER PLATE(F1554 GRADE 105) (REF:1/S-601)
P-5	W24X76	BP-16	1"	1"Ø - MINIMUM 24" EMBEDMENT
P-5.3	W12X40	BP-9A	1"	1"Ø - MINIMUM 24" EMBEDMENT
P-6	W12X26	BP-9	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
P-7	W14X53	BP-18	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
P-7.5	W14X53	BP-2	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
P-8	W14X53	BP-2	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
P-8.5	W14X68	BP-14A	2" (A572 GRADE 50)	1-1/2"Ø - W/ WASHER PLATE(F1554 GRADE 105) (REF:1/S-601)
P-9	W14X74	BP-14	1-1/2" (A572 GRADE 50)	1"Ø - MINIMUM 24" EMBEDMENT
P-9.5	W14X68	BP-14A	2" (A572 GRADE 50)	1-1/2"Ø - W/ WASHER PLATE(F1554 GRADE 105) (REF:1/S-601)
P-10	W14X53	BP-2	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
P-10.5	W14X53	BP-2	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
P-12	W14X53	BP-2	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
P-13	W14X53	BP-2	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
P-14	W14X53	BP-2	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
P-15	W14X53	BP-18	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
Q-9.7	HSS6X6X1/4	BP-11	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
Q-10	HSS6X6X1/4	BP-11	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
Q.1-5.2	HSS6X6X3/8	BP-5	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
Q.1-6.1	HSS6X6X3/8	BP-12	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
R-9.7	HSS6X6X1/4	BP-11	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
R-10	HSS6X6X1/4	BP-11	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
S-5.2	HSS6X6X3/8	BP-12	1"	3/4"Ø - MINIMUM 9" EMBEDMENT
S-6.1	HSS6X6X3/8	BP-11	1"	3/4"Ø - MINIMUM 9" EMBEDMENT

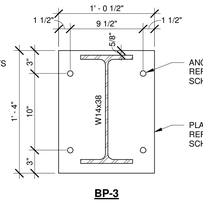


BP-1

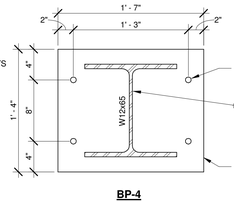
BP-1A



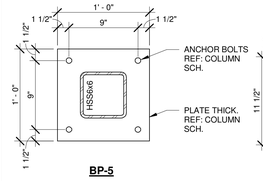
BP-2



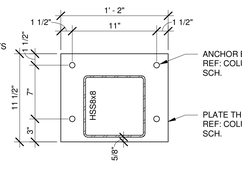
BP-3



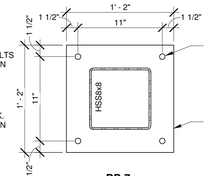
BP-4



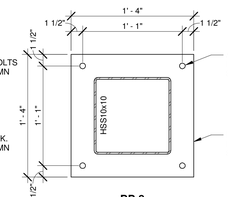
BP-5



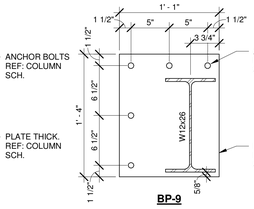
BP-6



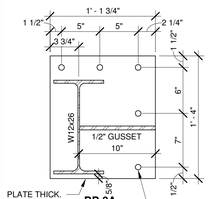
BP-7



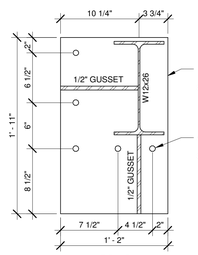
BP-8



BP-9



BP-9A



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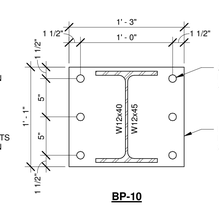

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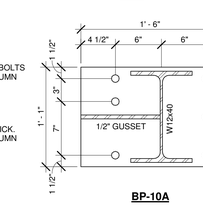

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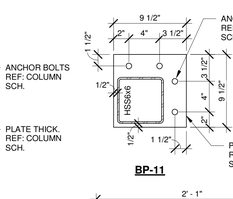

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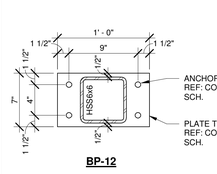
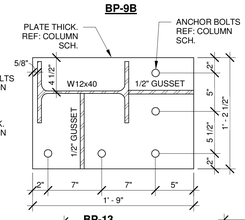


BP-12



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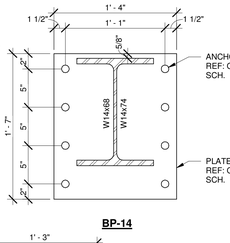

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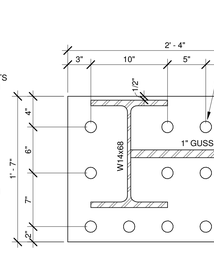

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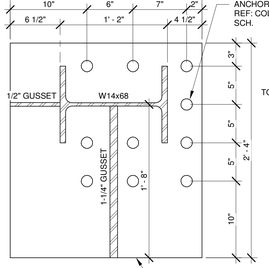
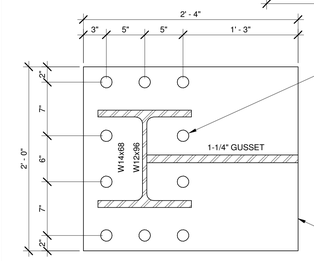


BP-14B



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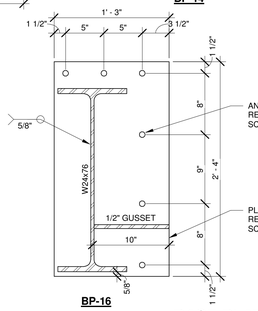
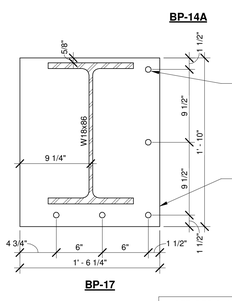


BP-16



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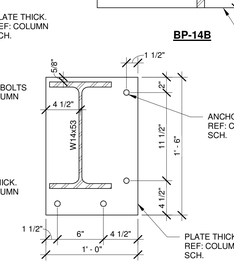
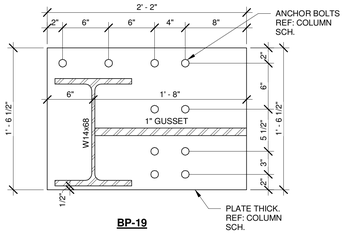


BP-18

NOTE: REF. PLANS FOR BASE PLATE ORIENTATION

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



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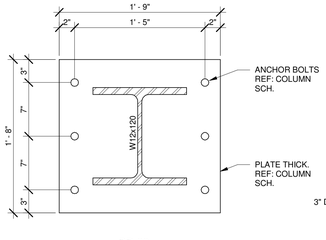

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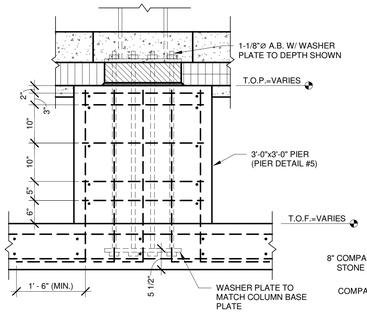
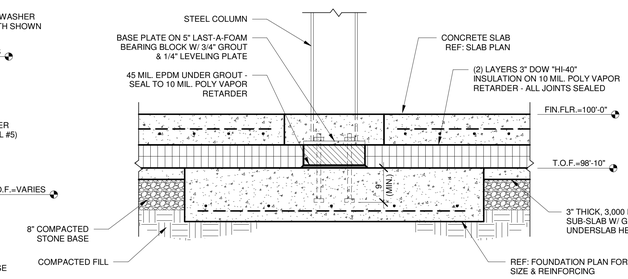
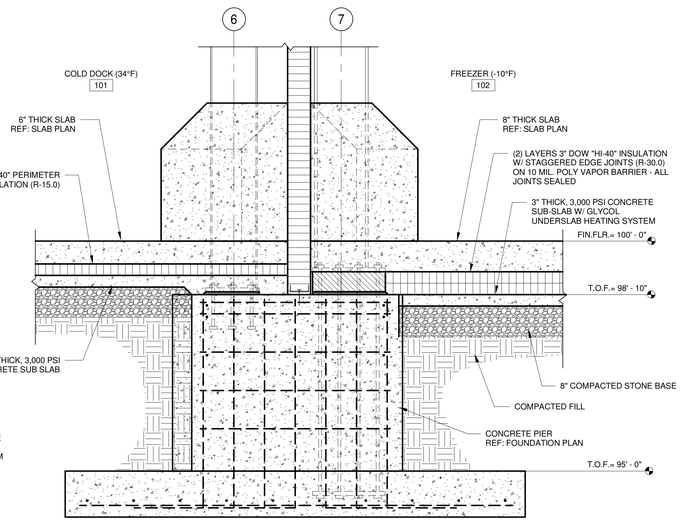


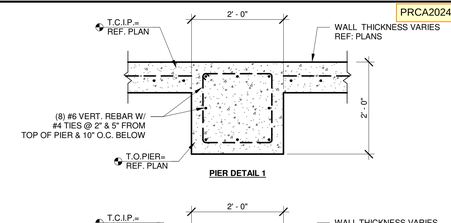
A S-601 **PIER SECTION W/ WASHER PLATE (FREEZER)**
SCALE: 3/4" = 1'-0"



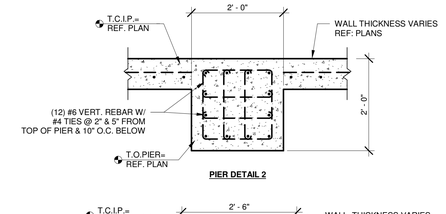
B S-601 **INTERIOR FOOTING SECTION (FREEZER)**
SCALE: 3/4" = 1'-0"



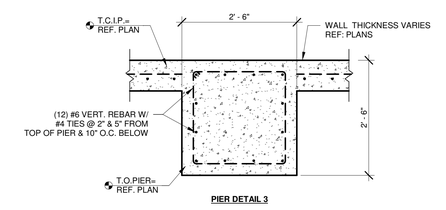
C S-601 **INTERIOR PIER SECTION @ DOCK WALL**
SCALE: 3/4" = 1'-0"



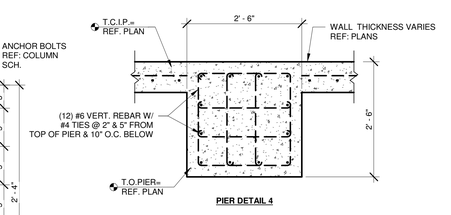
PIER DETAIL 1



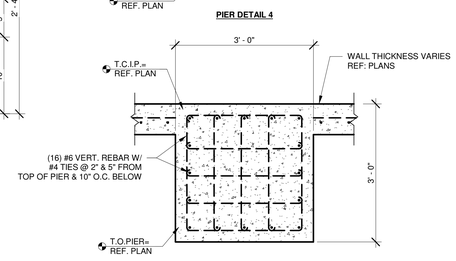
PIER DETAIL 2



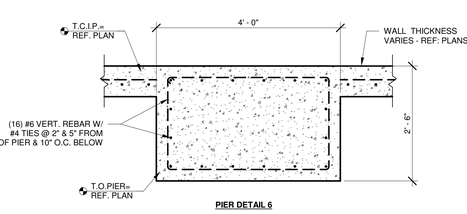
PIER DETAIL 3



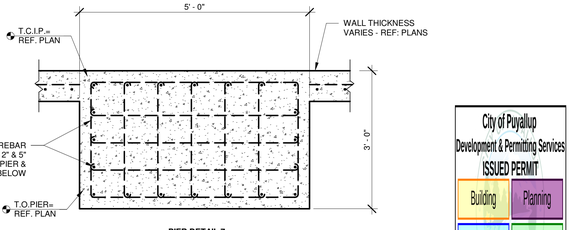
PIER DETAIL 4



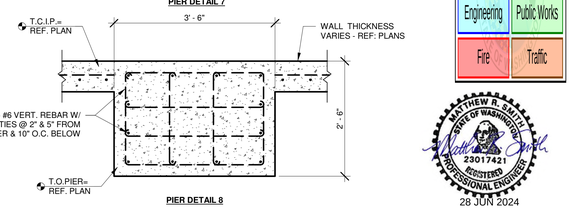
PIER DETAIL 5



PIER DETAIL 6



PIER DETAIL 7



PIER DETAIL 8

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

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MATTHEW R. MRTEK — STATE OF WASHINGTON — 23017421 — REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

REV	DESCRIPTION	BY	DATE
	OWNER REVIEW	GTB	21 JUL 23
	30% PRICING SET	GTB	28 JUL 23
	90% PRICING SET	CAS	26 JAN 24
	ISSUED FOR PERMIT	CAS	06 MAR 24
	STRUCTURAL REVISIONS	CAS	11 MAR 24
	ISSUED FOR PERMIT	CAS	15 MAY 24
	ISSUED FOR PERMIT	CAS	28 JUN 24
A			
B			

ENGINEERS / ARCHITECTS
1402 NORTHWOOD DRIVE, SALISBURY, MARYLAND 21801-7834
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AWB ENGINEERS

WHITING-TURNER

COLUMN SCHEDULE & BASE PLATES

FREEZER EXPANSION

PUYALLUP, WASHINGTON

SCALE	As indicated
DRAWN	GTB
PROJ.MGR.	MRS
JOB	221205
SHEET	S-601

6/28/2024 10:38:34 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt

PRCA20240398

3"FD1
3"SS, CONT. REF. CIVIL PLANS
2"SV UP, VTR FOR EACH RISER ROOM DRAIN. TYP.
PROVIDE 3"SS CONNECTION WITH TRAP TO RISER ROOM FLOOR DRAIN. TYP.

EW-2
3"FCO
3"FD1
3" SS
NOTE: SS PIPING AND FITTINGS TO NT-1 SHALL BE CPVC TO MEET ASTM F2618.
NT-1
COORDINATE OUTLET INVERT OF NT-1 WITH E3"SS INLET.
E3" SS
3" SS
E4" SS
4"SS @ E CO
INV= 92' - 2"
E6" SS

7'-11"x27'-9" GAS COOLER SHOWN FOR REFERENCE PURPOSES ONLY
8'-6"x37'-4" ENGINE ROOM SKID SHOWN FOR REFERENCE PURPOSES ONLY
MAU

4"HD
4"HD
4"HD
4"HD FOR EVAPORATOR CONDENSATE. SET RIM 6"A.F.F. INSTALL IN CONCRETE CURB. COORDINATE FINAL LOCATION WITH REFRIGERATION CONTRACTOR. TYP. OF 4.
4"WCO, 3"SV UP, VTR, INSTALL IN CURB
4" SS
4" SS
ESTIMATED LOCATION OF 6"SS FROM CIVIL PLANS. EXTEND 4"SS TO CONNECT TO EXISTING AS REQUIRED.
NOTE: 4"HD SHALL BE INSTALLED SO DEVELOPED LENGTH FROM HD TRAP WEIR TO INNER EDGE OF VENT IS NO MORE THAN 10' IN LENGTH.

4"WCO, 3"SV UP, VTR, INSTALL IN CURB
4"FCO
4"HD

PROVIDE SS PIPING, REDUCER AND SLOPE PER 2 / P-501 SIDE SEWER CONNECTION DETAIL.
CITY OF PUYALLUP TYPE 1 CATCH BASIN. REF. 1/P-501 FOR DETAIL. PROVIDE 4"SS CONNECTION MIN. 18" ABOVE BOTTOM OF CATCH BASIN WITH 90° ELL FITTING TO INLET 12" ABOVE BOTTOM OF CATCH BASIN TO PREVENT SEWER ODOR.
4"SS CONNECT TO EXISTING 6"SS PIPING, CONT. REF. CIVIL PLANS.
ELEV= 39.50
CATCH BASIN RIM ELEV= 39.42
COORDINATE OUTLET INVERT WITH E6"SS INLET.

NOTE: REF. DRAWING A-503 FOR ADDITIONAL TRASH ENCLOSURE INFORMATION.

3"FD1
3"SS, CONT. REF. CIVIL PLANS

NOTE: REF. CIVIL PLANS FOR FIRE PUMP ROOM LOCATION ON SITE.
4"FD1
3"SV UP VTR
COORDINATE FINAL FLOOR DRAIN LOCATION WITH SPRINKLER CONTRACTOR
4"SS, CONT. REF. CIVIL PLANS

1 P-101 UNDERSLAB PLUMBING PLAN - FIRST FLOOR
SCALE: 3/32" = 1'-0"

2 P-101 UNDERSLAB PLUMBING PLAN - FIRE PUMP ROOM
SCALE: 3/32" = 1'-0"

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

28 JUN 2024

REV	DESCRIPTION	DATE	BY
	OWNER REVIEW	21 JUL 23	RMB
	30% PRICING SET	28 JUL 23	RMB
	90% DESIGN DOCUMENTS	23 FEB 24	RMB
A	ISSUED FOR PERMIT	06 MAR 24	RMB
	ISSUED FOR PERMIT	15 MAY 24	RMB
B	ISSUED FOR PERMIT	28 JUN 24	RMB

PROJECT NORTH

ENGINEERS / ARCHITECTS
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WHITING-TURNER

UNDERSLAB PLUMBING PLAN

FREEZER EXPANSION
PUYALLUP, WASHINGTON

SCALE 3/32" = 1'-0"
DRAWN RMB
PROJ.MGR. MRS
JOB 221205
SHEET P-101

6/28/2024 7:24:59 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt

PRCA20240398

PROVIDE 4"RL-OF DISCHARGE WITH INLET INSECT SCREEN. COORDINATE DISCHARGE WITH EXISTING NG METER LOCATION.

CONNECT 1"CW TO E2"CW MAIN IN EXISTING MECHANICAL ROOM, FIELD VERIFY EXISTING LOCATION.

INSTALL WH-1 IN PLACE OF EXISTING GWH-1 WATER HEATER. RECONNECT CW, HW, NG PIPING TO PROPOSED WATER HEATER. EXTEND WH-1 VENTING AND TERMINATE AT NEAREST WALL OR ROOF PER MANUFACTURERS REQUIREMENTS.

WH-1

4"RL-OF, ROUTED AT MIN. 1/8" PER 12" (6,576 SQFT. CAPACITY)

EW-2

PROVIDE 1-1/4"CW, 3/4"HW TO EW-2 MIXING VALVE. PROVIDE 1-1/4" TEPID WATER OUTLET FROM MIXING VALVE TO EW-2 INLET. SET MIXING VALVE OUTLET FOR 65°F DISCHARGE.

E3" RL

E3"RL UP TO RD1 ON ROOF

3"RL-OF UP TO RD1 OVERFLOW DRAIN, CONT. REF: P-103

3"RL-OF, ROUTED AT MIN. 1/8" PER 12" (3,288 SQFT. CAPACITY)

1 1/4" CW
3/4" HW

E1 1/2" CW
E1" HW

E3" RL

1"CW

1"CW UP TO ROOF PIPING RACK FOR ROOFTOP HOSE BIBS, FOR CONT. ROUTING REF: P-103

E3"RL UP TO RD1 ON ROOF

3"RL-OF UP TO RD1 OVERFLOW DRAIN, CONT. REF. P-103. PROVIDE CLEANOUT AT CONNECTION IN DIRECTION OF RL-OF FLOW.

PROVIDE PIPING SUPPORTS PER DETAIL 4 / P-501

H.B.

1"CW DOWN FROM ROOF TO HOSE BIB IN DOCK AREA. PROVIDE SHUTOFF VALVE AND HOSE BIB WITH VACUUM BREAKER AT 3'-0" A.F.F. CW PIPING SHALL BE INSULATED AND HEAT TRACED TO MATCH ROOFTOP CW SPECIFICATION. 1"CW UP CONT. REF: P-103

H.B.

1"CW DOWN FROM ROOF TO HOSE BIB IN DOCK AREA. PROVIDE SHUTOFF VALVE AND HOSE BIB WITH VACUUM BREAKER AT 3'-0" A.F.F. CW PIPING SHALL BE INSULATED AND HEAT TRACED TO MATCH ROOFTOP CW SPECIFICATION. 1"CW UP CONT. REF: P-103

FENCE SHOWN FOR REFERENCE PURPOSES ONLY

EW-1

7'-11"x27'-9" GAS COOLER SHOWN FOR REFERENCE PURPOSES ONLY

H.B.

EW-1

1"CW DOWN FROM ROOF TO REFRIGERATION SKID. PROVIDE HOSE BIB AT BASE OF RISER. COORDINATE FINAL LOCATION WITH FINAL SKID LOCATION AND REFRIGERATION CONTRACTOR.FOR CONT. ROUTING REF: P-103

8'-6"x37'-4" ENGINE ROOM SKID SHOWN FOR REFERENCE PURPOSES ONLY

2" GWS
2" GWR

MAU

PROVIDE 2"GWS/2"GWR CONNECTION TO MAU UNIT PER DETAIL 3 / P-501

CONNECT 2"GWS/2"GWR TO REFRIGERATION SKID. COORDINATE CONNECTION LOCATIONS WITH REFRIGERATION CONTRACTOR. PROVIDE SHUTOFF VALVES AT CONNECTION POINTS. PUMP PROVIDED IN ENGINE ROOM SKID BY REFRIGERATION CONTRACTOR.

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MATHEW MASON TARANT
STATE OF WASHINGTON
23000492
REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

OVERHEAD PLUMBING PLAN - FIRST FLOOR
SCALE: 3/32" = 1'-0"

REV	DESCRIPTION	DATE	BY
	OWNER REVIEW	21 JUL 23	RMB
	30% PRICING SET	25 JUL 24	RMB
	90% CONSTRUCTION DOCUMENTS	05 JAN 24	RMB
A	ISSUED FOR PERMIT	05 MAR 24	RMB
	ISSUED FOR PERMIT	15 MAY 24	RMB
B	ISSUED FOR PERMIT	28 JUN 24	RMB

PROJECT NORTH

ENGINEERS / ARCHITECTS
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OVERHEAD PLUMBING PLAN

FREEZER EXPANSION
PUYALLUP, WASHINGTON

SCALE	3/32" = 1'-0"
DRAWN	RMB
PROJ.MGR.	MRS
JOB	221205
SHEET	P-102

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PRCA20240398

PROVIDE 3"RL-OF FOR EACH RD1. CONT. REF. P-102 FOR RL-OF PIPING.

RD1

CONNECT 3"RL TO E3"RL AS REQUIRED.

PROVIDE 3"RL-OF FOR EACH RD1. CONT. REF. P-102 FOR RL-OF PIPING.

RD1

CONNECT 3"RL TO E3"RL AS REQUIRED.

1"CW DOWN FROM PIPE BRIDGE(BY OTHERS). FOR CONT. ROUTING REF: P-102

1" CW(ROOF)

1" CW(ROOF)

1" CW(ROOF)

1"CW DOWN, FOR CONT. ROUTING REF: P-102

1" CW(ROOF)

1" CW(ROOF)

1"CW(ROOF) DOWN TO DOCK HOSE BIB, CONT. REF. P-102

1" CW(ROOF)

1" CW(ROOF)

1"CW(ROOF) DOWN TO DOCK HOSE BIB, CONT. REF. P-102

1" CW(ROOF)

1" CW(ROOF)

H.B.

ROOF PENTHOUSE

MOUNT VALVE AND HOSE BIB AT REFRIGERATION PIPING RACK NEAR PENTHOUSE.

H.B.

ROOF PENTHOUSE

H.B.

ROOF PENTHOUSE

PROVIDE 3/4"CW WITH SHUTOFF VALVE AND HOSE BIB MOUNTED TO EACH PENTHOUSE. HOSE BIB SHALL BE PROVIDED WITH VACUUM BREAKER.

NOTE: ALL ROOFTOP PIPING SHALL BE ROUTED ON REFRIGERATION PIPING RACK. COORDINATE FINAL PIPING LOCATION WITH FINAL RACK LOCATION.

DN

DN

DN

DN

OVERHEAD PLUMBING PLAN - ROOF

SCALE: 3/32" = 1'-0"

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MALCOLM MASON MARCEN — STATE OF WASHINGTON — 23003482 — REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

REV	DESCRIPTION	BY	DATE
	90% DESIGN DOCUMENTS	RMB	23 FEB 24
A	ISSUED FOR PERMIT	RMB	08 MAR 24
B	ISSUED FOR PERMIT	RMB	10 JUN 24
	ISSUED FOR PERMIT	RMB	28 JUN 24

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WHITING-TURNER

OVERHEAD PLUMBING PLAN - ROOF

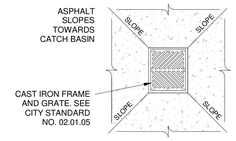
FREEZER EXPANSION

PUYALLUP, WASHINGTON

SCALE	3/32" = 1'-0"
DRAWN	RMB
PROJ.MGR.	MRS
JOB	221205
SHEET	P-103

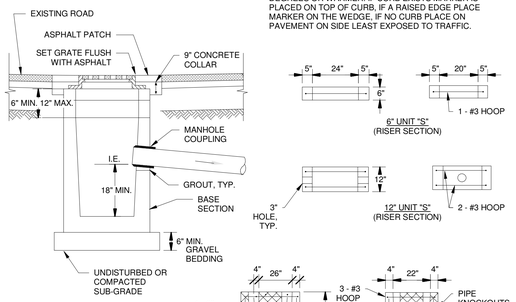
6/28/2024 7:22:23 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt

PRCA20240398

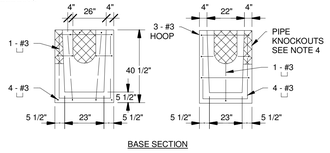


PLAN VIEW

NOTES:
1. MAXIMUM LENGTH OF PIPE BETWEEN CATCH BASINS SALL BE 400'.
2. TYPE 1 CATCH BASIN IS USED FOR DEPTHS LESS THAN 5'-0" FROM TOP OF GRATE TO I.E.(PIPE INVERT).
3. PRECAST BASE SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. KNOCKOUTS SHALL BE ON 4 SIDES WITH A MAXIMUM DIAMETER OF 20" TO PROVIDE FOR A MINIMUM SUMP DEPTH OF 18".
4. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION SHALL NOT EXCEED 1/2" PER FOOT.
5. CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (AASHTO M 199) AND ASTM C 890 UNLESS OTHERWISE NOTED.
6. CATCH BASIN MARKER WILL BE AFFIXED WITH MANUFACTURER'S EPOXY IN DRY WEATHER, 40 DEGREES OR WARMER. IF CURB EXISTS MARKER IS PLACED ON TOP OF CURB, IF A RAISED EDGE PLACE MARKER ON THE WEDGE, IF NO CURB PLACE ON PAVEMENT ON SIDE LEAST EXPOSED TO TRAFFIC.



SECTION VIEW

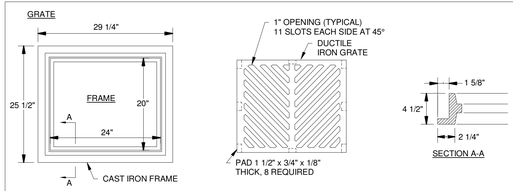


BASE SECTION

CITY OF PUYALLUP DEVELOPMENT ENGINEERING AND PUBLIC WORKS DEPARTMENTS	CATCH BASIN TYPE I (AREA DRAIN)				
	DRAWN BY LINDA LANSING	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY XXXX	CITY STANDARD 02.01.05
	FILE NAME F:\DWG\COMMON\STDS\CITY\2009\02_SD\02.01.02		DATE APPROVED 09/01/1992	DATE REVISED 06/01/2003	SCALE NTS

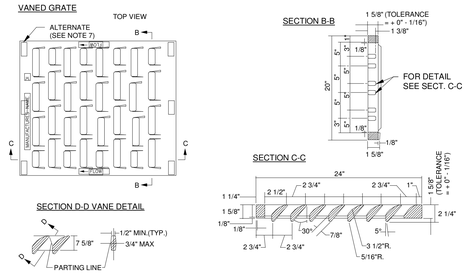
1 P-501 TYPE 1 GRATE AND FRAME CATCH BASIN DETAIL
SCALE: N.T.S.

GRATE



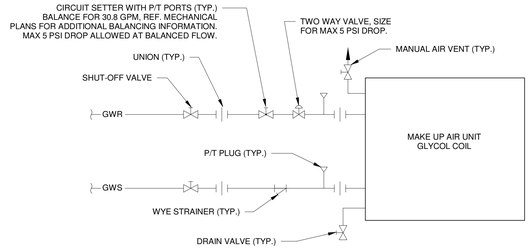
NOTES:
1. MATERIAL SHALL CONFORM TO SECTION 9-05 15 "METAL CASTINGS" OF THE "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION" PUBLISHED BY THE STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER.
2. THE NAME OF THE MANUFACTURE AND DIRECTION OF FLOW SHALL BE EMBOSSED ON THE TOP SURFACE OF EACH GRATE LETTERING TO BE RECESSED 1/16".
3. THE MATERIAL USED FOR THE GRATE SHALL BE DESIGNATED BY EMBASSING EITHER DI(FOR DUCTILE IRON) OR CSI(FOR CAST STEEL) NEAR THE NAME OF THE MANUFACTURER.
4. DIMENSIONS SHALL HAVE A +/- 1/16" TOLERANCE, EXCEPT AS NOTED.
5. EDGES SHALL HAVE 1/8" RADIUS.
6. WELDING IS NOT PERMITTED.
7. AS AN ALTERNATE, 8 PADS 1 1/2" x 3/4" x 1/8". INTEGRALLY CAST WITH THE GRATE. MAY BE USED.

VANED GRATE

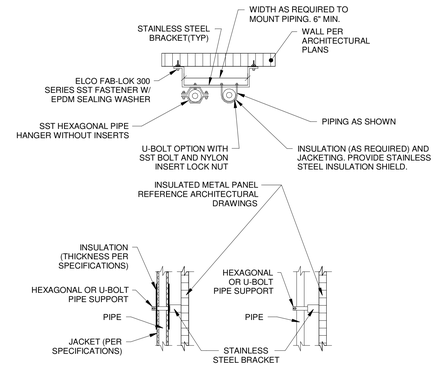


CITY OF PUYALLUP DEVELOPMENT ENGINEERING AND PUBLIC WORKS DEPARTMENTS	CATCH BASIN FRAME AND GRATE/VANED GRATE				
	DRAWN BY LINDA LANSING	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY LINDA LIAN	CITY STANDARD 02.01.05
	FILE NAME F:\DWG\COMMON\STDS\CITY\2009\02_SD\02.01.05		DATE APPROVED 07/01/2009	DATE REVISED 03/21/2011	SCALE NTS

NOTE: ALL PIPING, VALVES AND APPURTENANCES SHALL BE STAINLESS STEEL. COORDINATE FINAL REQUIREMENTS AND INSTALLATION WITH REFRIGERATION CONTRACTOR.



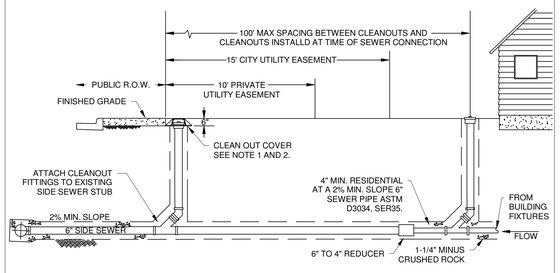
3 P-501 COIL PIPING CONNECTION DETAIL
SCALE: N.T.S.



4 P-501 PIPING SURFACE INSTALLATION DETAIL
SCALE: N.T.S.

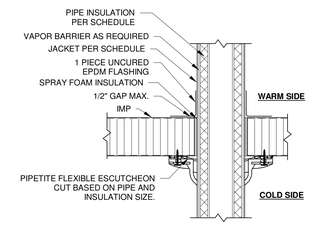
RESIDENTIAL SIDE SEWER CONNECTION

1. PRIOR TO CONNECTING A NEW LATERAL TO AN EXISTING SEWER STUB, THE STUB MUST BE INSPECTION AND APPROVED BY THE CITY ENGINEER.
2. WHEN THE SEWER MAIN IS IN A RIGHT-OF-WAY, A 6" CLEAN OUT IS REQUIRED AT THE EDGE OF THE RIGHT-OF-WAY.
3. WHEN THE SEWER MAIN IS IN AN EASEMENT, A 6" CLEAN OUT IS REQUIRED AT THE EDGE OF THE EASEMENT.
4. EACH CLEAN OUT ASSEMBLY SHALL CONSIST OF ONE CLEAN OUT ADAPTOR. (HUB x FEMALE INSIDE PIPE THREAD. PVC SLIP IN.) AND ONE CLEAN OUT PLUG (MALE OUTSIDE THREAD WITH RAISED NUT. PVC SDR 35).
5. FOR NON-VEHICULAR TRAFFIC INSTALLATIONS USE "CARSON" MODEL 910 GREEN YARD BOX WITH BOLT DOWN LID MARKED SEWER OR APPROVED EQUAL.
6. FOR ASPHALT GRAVEL OR TRAFFIC INSTALLATIONS SEE CITY STANDARD DETAIL NO. 040305 FRAME AND COVER SECTION.
7. SEWER PIPE, TRENCHING, BEDDING AND BACKFILL SHALL CONFORM TO CITY STANDARD NO 060101.



CITY OF PUYALLUP DEVELOPMENT ENGINEERING AND PUBLIC WORKS DEPARTMENTS	SIDE SEWER RESIDENTIAL CONNECTION				
	DRAWN BY JIM ERWIN-SVOBODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY LINDA LIAN	CITY STANDARD 04.03.03
	FILE NAME F:\DWG\COMMON\STDS\CITY\2009\04_SS\04.03\04.03.03		DATE APPROVED 07/01/2009	DATE REVISED 09/21/2012	SCALE NTS

2 P-501 SIDE SEWER CONNECTION
SCALE: N.T.S.



5 P-501 PIPE PENETRATION FLASHING DETAIL
SCALE: N.T.S.

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

28 JUN 2024

REV	DESCRIPTION	BY	DATE
	90% DESIGN DOCUMENTS	RMB	28 FEB 24
A	ISSUED FOR PERMIT	RMB	06 MAR 24
B	ISSUED FOR PERMIT	RMB	24 MAY 24
	ISSUED FOR PERMIT	RMB	28 JUN 24

ENGINEERS / ARCHITECTS
1402 NORTHWOOD DRIVE, SALISBURY, MARYLAND 21801-7834
PH: (410) 742-7299 FAX: (410) 742-0273

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AWB ENGINEERS

WHITING-TURNER

PLUMBING DETAILS

FREEZER EXPANSION
PUYALLUP, WASHINGTON

SCALE	As indicated
DRAWN	RMB
PROJ.MGR.	MRS
JOB	221205
SHEET	P-501

6/28/2024 7:20:14 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt

PRCA20240398

PIPING LEGEND AND SPECIFICATIONS

SYMBOL	PIPING DESCRIPTION
CD	CONDENSATE DRAIN (HVAC SYSTEMS) - PVC PLASTIC DWV SCHEDULE 40 PIPING (ASTM D 2665), FITTINGS PVC PLASTIC DWV SCHEDULE 40, 1/2" FIBERGLASS INSULATION WITH PVC JACKET, SOCKET SOLVENT WELD JOINTS. SLOPE ALL CD PIPING MIN. 1/8" PER 12" AS REQUIRED.
CW	COLD WATER ABOVE GRADE (UNDER 2") - STAINLESS STEEL SCHEDULE 10 TYPE 304 PIPING, WITH STAINLESS STEEL TYPE 304 SOCKET WELD FITTINGS. 1" FIBERGLASS INSULATION WITH WHITE PVC JACKET FOR INTERIOR PIPING. FOR ALL EXTERIOR CW PIPING, PROVIDE 1" CLOSED CELL FOAM INSULATION AND WHITE PVC JACKET WITH RAYCHEM CORPORATION # 8BTV2-CT 277-60-1 VOLT 20 AMP HEAT TRACE CIRCUIT EVERY 250'-0" OF PIPING . EACH HEAT TRACE SYSTEM CIRCUIT TO BE SELF REGULATING, BE GROUND FAULT PROTECTED AND UTILIZE #JBS-100-A POWER CONNECTION KIT WITH JUNCTION BOX, SPLICES, TEES AND END SEALS WITH #GS-54 FIBERGLASS TAPE, #910 CONTROLLER WITH RTD LINE SENSOR AND ADJUSTABLE TEMPERATURE SETTING, AND "ELECTRIC TRACED" PIPE LABEL. ROUTE ROOFTOP COLD WATER PIPING ON REFRIGERATION PIPING SUPPORTS, COORDINATE SUPPORT LOCATIONS WITH REFRIGERATION CONTRACTOR. FOR ANY ROOFTOP PIPING NOT ON REFRIGERATION SUPPORTS, PROVIDE MIFAB #C610 RUBBER SUPPORTS WITH GALVANIZED STEEL CHANNEL AND STRUT CLAMPS WITH ADDITIONAL SUPPORTS AS REQUIRED FOR SEISMIC CLASS. PROVIDE QUANTITIES AND SPACING PER MANUFACTURER RECOMMENDATIONS.
CW	COLD WATER ABOVE GRADE (OFFICE AREA ONLY) - COPPER TYPE "L" TUBING, WROT FITTINGS AND LEAD-FREE SOLDERED JOINTS (ASTM B88). 1/2" FIBERGLASS INSULATION FOR ALL PIPING UNDER 1-1/2", 1" FIBERGLASS INSULATION FOR PIPING 1-1/2" AND ABOVE, WHITE PVC JACKET.
FD1	FLOOR DRAIN - TUFCO # TD-30/40 304 STAINLESS STEEL FLOOR DRAIN WITH CONNECTION AND TRAP AS SHOWN ON PLANS. FOR BATTERY CHARGING AREA DRAINS, PROVIDE LOW PROFILE 3" SIDE CONNECTION AND NO TRAP FOR CONNECTION TO NT-1. PROVIDE WITH 10" ROUND TOP AND 1/2" THICK FLOOR DRAIN GRATE, 304 STAINLESS STEEL BODY WITH 14 GA PERFORATED BASKET AND 12 GA CEMENT RING.
GWS/GWR	GLYCOL WATER SUPPLY (30% PROPYLENE GLYCOL) - STAINLESS STEEL SCHEDULE 40 TYPE 304 PIPING, WITH STAINLESS STEEL TYPE 304 BUTT WELD FITTINGS. FOR ALL EXTERIOR GWS/GWR PIPING, PROVIDE 2" CLOSED CELL FOAM INSULATION AND STAINLESS STEEL JACKET. PROVIDE MIFAB SUPPORTS WITH GALVANIZED STEEL CHANNEL AND STRUT CLAMPS FOR ALL EXTERIOR GWS/GWR PIPING RUNS ALONG WITH ADDITIONAL SUPPORTS AS REQUIRED FOR SEISMIC CLASS. PROVIDE QUANTITIES AND SPACING PER MANUFACTURER RECOMMENDATIONS. COORDINATE FINAL PIPE ROUTING AND CONNECTION POINTS WITH REFRIGERATION CONTRACTOR. NOTE : GLYCOL PUMP AND HEAT EXCHANGER PROVIDED IN ENGINE ROOM SKID BY REFRIGERATION CONTRACTOR.
HW	HOT WATER ABOVE GRADE - COPPER TYPE "L" TUBING, WROT FITTINGS AND LEAD-FREE SOLDERED JOINTS (ASTM B88). 1" FIBERGLASS INSULATION FOR ALL PIPING UNDER 1-1/2", 1-1/2" FIBERGLASS INSULATION FOR PIPING 1-1/2" AND ABOVE, WHITE PVC JACKET.
HWR	HOT WATER RETURN ABOVE GRADE - COPPER TYPE "L" TUBING, WROT FITTINGS AND LEAD-FREE SOLDERED JOINTS (ASTM B88). 1" FIBERGLASS INSULATION FOR ALL PIPING UNDER 1-1/2", WHITE PVC JACKET.
RD1	ROOF DRAIN - JOSAM #22100 SERIES COATED CAST IRON COMBINATION ROOF DRAIN AND OVERFLOW DRAIN WITH CAST IRON DOMES. WEJLOC NON PUNCTURING CLAMP RINGS WITH INTEGRAL GRAVEL STOPS, INTEGRAL CAST IRON STANDPIPE IN CAST IRON DECK FLANGE AND DUAL NO-HUB BOTTOM OUTLETS. INSTALL TO REPLACE EXISTING ROOF DRAIN ASSEMBLY AS SHOWN. RECONNECT ROOF DRAIN TO EXISTING PIPING AS REQUIRED, EXTEND RL-OF PIPING FROM OVERFLOW DRAIN AS SHOWN ON PLANS.
RL	RAIN LEADER ABOVE GRADE (IN CEILING) - CAST IRON DWV SERVICE WEIGHT PIPING, FITTINGS DWV CAST IRON, NO-HUB RUBBER SLEEVE AND BAND JOINTS, INTERIOR AREAS 1" FIBER GLASS INSULATION AND ALL SERVICE JACKET
RL-OF	RAIN LEADER ABOVE GRADE OVERFLOW (IN CEILING) - CAST IRON DWV SERVICE WEIGHT PIPING, FITTINGS DWV CAST IRON, NO-HUB RUBBER SLEEVE AND BAND JOINTS, INTERIOR AREAS 1" FIBER GLASS INSULATION AND ALL SERVICE JACKET
SS	SANITARY SEWER BELOW GRADE - PVC PLASTIC DWV SCHEDULE 40 PIPING (ASTM D 2665), FITTINGS PVC PLASTIC DWV SCHEDULE 40, SOCKET SOLVENT WELD JOINTS.
SV	SANITARY SEWER VENTS ABOVE GRADE - PVC PLASTIC DWV SCHEDULE 40 PIPING (ASTM D 2665), FITTINGS PVC PLASTIC DWV SCHEDULE 40, SOCKET SOLVENT WELD JOINTS. NOTE: ALL SV VENT PIPING SHALL BE GRADED AND CONNECTED TO SS SYSTEM TO ALLOW POSITIVE DRAINAGE INTO SS SYSTEM.
TW	TEPID WATER ABOVE GRADE (OFFICE AREA ONLY) - COPPER TYPE "L" TUBING, WROT FITTINGS AND LEAD-FREE SOLDERED JOINTS (ASTM B88). 1" FIBERGLASS INSULATION, WHITE PVC JACKET.
WCO	WALL CLEAN OUT - PVC SCHEDULE 40 CLEANOUT PLUG TO MATCH SV SPECIFICATION.
	VALVE IN HORIZONTAL PIPING - SEE SPECIFIC PIPING SYSTEM FOR VALVE DESCRIPTION.
	VALVE IN VERTICAL PIPING - SEE SPECIFIC PIPING SYSTEM FOR VALVE DESCRIPTION.
	CHANGE IN ELEVATION OF PIPING SYSTEM
—E-XX—	INDICATES EXISTING PIPING. REF. DRAWING FOR MORE INFORMATION.
	CONNECT TO EXISTING. FIELD VERIFY EXACT TIE-IN POINT PRIOR TO STARTING WORK.

PLUMBING EQUIPMENT SCHEDULE

NT-1 ACID NEUTRALIZATION TANK - ZURN #Z9A-NT-55 NEUTRALIZATION TANK. 55 GALLON CAPACITY WITH 3" STANDARD INLET AND OUTLET CONNECTIONS AND 2" VENT CONNECTION. HIGH DENSITY POLYETHYLENE CONSTRUCTION WITH #Z9-MAC-36 MANHOLE ACCESS COVER. PROVIDE 3"SS INLET AND OUTLET AND 2"SV VENT THROUGH ROOF FOR TANK AS REQUIRED.

EW-1 PORTABLE EYEWASH STATION - BRADLEY #S19-941H GRAVITY FED PORTABLE EYEWASH STATION WITH HEATER JACKET. 121 WATT TANK HEATER AND 60 WATT TUBE HEATER WITH STANDARD 120-60-1 VOLT POWER CORD. COORDINATE FINAL LOCATIONS WITH REFRIGERATION CONTRACTOR. DIMENSIONS = 23" L X 19" W.

EW-2 COMBINATION DRENCH SHOWER AND EYE/FACE WASH UNIT - BRADLEY S19314 COMBINATION DRENCH SHOWER AND EYE/FACE WASH STATION. TYPE 304 SS BOWL AND DUST COVER, FACE SPRAY RING, PLASTIC HIGH PERFORMANCE SPINTEC SHOWER HEAD, 1/2" CHROME PLATED EYE WASH VALVE WITH TYPE 304 STAINLESS PUSH HANDLE, 1-1/4" YELLOW BRADTECT GALVANIZED STEEL PIPING. PROVIDE #S19-2150 EFX 20 EMERGENCY THERMOSTATIC MIXING VALVE TO DELIVER TEPID WATER TO FIXTURE.

WH-1 NATURAL GAS FIRED WATER HEATER (TO REPLACE EXISTING GWH-1) - A.O. SMITH #BTF-80 POWER VENT GAS WATER HEATER, 75-GALLON CAPACITY, 76,000 BTUH, HIGH EFFICIENCY FOAM INSULATION, DRAIN VALVE, BUILT IN TEMPERATURE & PRESSURE RELIEF VALVE. DESIGN CERTIFIED TO ANZI Z21.10.3 - CSA 4.3. MEETS THERMAL EFFICIENCY AND STANDBY LOSS REQUIREMENTS OF CURRENT EDITION OF ASHRAE/IESNA 90.1. 74 GPH RECOVERY AT 100 DEGREES F RISE. EST WEIGHT = 277 LBS. PROVIDE VENTING THROUGH SIDEWALL OR ROOF PER MANUFACTURER'S RECOMMENDATIONS. UNIT TO BE INSTALLED IN PLACE OF ORIGINAL GWH-1 WATER HEATER, WITH CW, HW AND NG PIPING RECONNECTED.

PLUMBING FIXTURE ROUGH-IN SCHEDULE

#	DESCRIPTION	HW	CW	SS/PW	VENT	RIM HEIGHT
EW-2	EYEWASH STATION	3/4"*	1-1/4"*	--	--	--
WH-1	GAS WATER HEATER	3/4"	3/4"	--	--	--

* TO MIXING VALVE, PROVIDE 1-1/4" TEPID WATER OUTLET FROM MIXING VALVE TO EW-2 AS REQUIRED. INSTALLATION TO MEET ANSI Z358.1

PLUMBING & PIPING SPECIFICATIONS

1. WORKMANSHIP SHALL BE IN KEEPING WITH GOOD STANDARD ACCEPTED PRACTICE FOR THE TRADES INVOLVED AND AS PERFORMED BY EXPERIENCED MECHANICS. MATERIALS SHALL BE NEW, OF THE BEST QUALITY AND STANDARD GRADE FOR THE PARTICULAR APPLICATION. CONTRACTOR SHALL FURNISH MANUFACTURER'S CUT SHEETS OR SUBMITTALS FOR ALL MAJOR PIECES OF EQUIPMENT PRIOR TO THEIR PURCHASE. SUBMITTALS SHALL CLEARLY SHOW PROPOSED EQUIPMENT SPECIFICATIONS, OPTIONAL ACCESSORIES, IF ANY, AND DIMENSIONAL PROPERTIES. ALL PIPING SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

2. CONTRACTOR TO FURNISH MATERIALS AND LABOR FOR HOOK-UP OF PIPING SYSTEMS TO EQUIPMENT FURNISHED BY OWNER OR OTHERS. CONTRACTOR WILL BE RESPONSIBLE FOR CONNECTION OF THE EQUIPMENT AS FURNISHED BY OTHERS. ALL FINAL HOSE DROP LOCATIONS SHALL BE COORDINATED WITH OWNER. ALL EQUIPMENT CONNECTIONS SHALL BE PROVIDED WITH A SHUTOFF VALVE AT THE EQUIPMENT CONNECTION TO FACILITATE SERVICING.

3. IT IS UNDERSTOOD THAT THE EXISTING PORTION OF MAIN BUILDING WILL REMAIN IN OPERATION DURING RENOVATIONS AND ADDITIONS FOR THIS PROJECT. CONTRACTOR TO COORDINATE INSTALLATION AND SEQUENCING OF ALL UTILITY WORK WITH OPERATION OF REMAINING PORTION OF MAIN BUILDING AS REQUIRED.

4. IT IS INTENDED THAT THE CONTRACTOR SHALL PROVIDE COMPLETE AND OPERABLE PLUMBING SYSTEMS EVEN THOUGH THE PLANS DO NOT NECESSARILY INDICATE ALL COMPONENTS REQUIRED FOR OPERATION. THE SYSTEM SHALL BE SUITABLE FOR CONTINUOUS SATISFACTORY OPERATION AND COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS, INCLUDING APPLICABLE INTERNATIONAL ENERGY CONSERVATION CODE REQUIREMENTS.

5. CLEVIS OR TRAPEZE HANGER ARE TO BE INSTALLED AS NECESSARY TO PREVENT SAGGING AND AT EVERY CHANGE IN DIRECTION, SPACING SHALL BE ON 8'-0" MAX CENTERS. HANGERS SHALL BE PROVIDED BASED ON SEISMIC CLASS AND PIPING IMPORTANCE FACTOR AS REQUIRED. FOR CPVC PIPING, INSTALL SUPPORTS PER MANUFACTURER'S RECOMMENDATIONS.

6. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS AND ROOFS AND INSTALLATION OF ALL PIPING AND DUCTWORK HANGERS, RODS, ANGLES AND OTHER SUPPORT MEMBERS TO PREVENT SAGGING.

7. ALL EXTERIOR VENTS SHALL BE PAINTED TO MATCH BUILDING EXTERIOR COLOR. ROOF FLASHINGS ARE TO BE FURNISHED AND INSTALLED BY THE ROOFING CONTRACTOR USING MATERIALS AS RECOMMENDED FOR INSTALLATION WITH THE ROOFING SYSTEM. COORDINATE THE INSTALLATION OF ALL FLASHINGS TO PROVIDE A WATER TIGHT INSTALLATION.

8. UNLESS NOTED OTHERWISE, ALL PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE TO ENSURE SERVICEABILITY AND ACCESS TO VALVES.

9. ALL VALVES SHALL BE THREE PIECE AND BE MADE ENTIRELY OF COPPER OR STAINLESS STEEL TO MATCH PIPING TYPES, UNLESS NOTED OTHERWISE.

10. INSTALLATION OF ALL UNDERGROUND PVC DRAINAGE PIPING SHALL BE PERFORMED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ASTM D2321 FOR BEDDING AND BACKFILLING REQUIREMENTS. ALL UNDERGROUND PIPING SHALL BE INSTALLED TO MINIMIZE MOVEMENT OF PIPING DUE TO EXPANDING SOILS.

11. ALL EMERGENCY FLOOR DRAINS SHALL BE PROVIDED WITH A BARRIER TRAP SEAL DEVICE TO PREVENT EVAPORATION IN TRAP.

12. DELEGATED-DESIGN SUBMITTAL: GENERAL AND MECHANICAL CONTRACTORS ARE RESPONSIBLE TO ENGAGE QUALIFIED PROFESSIONAL ENGINEER (REGISTERED IN JURISDICTION), TO DESIGN INSTALLATION, MOUNTING AND SEISMIC-RESTRAINTS FOR PIPING AND EQUIPMENT IF REQUIRED BY IMPORTANCE FACTOR OR SEISMIC CLASS, INCLUDING COMPREHENSIVE ENGINEERING ANALYSIS (IF REQUIRED FOR SPECIFIED SEISMIC CATEGORY). IT IS GENERAL AND MECHANICAL CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT SUBMITTALS ARE PROVIDED IN TIMELY MANNER SO AS TO ALLOW REVIEWS AND RE-SUBMISSIONS AS REQUIRED.

- INCLUDE DESIGN CALCULATIONS FOR SELECTING VIBRATION ISOLATORS, SEISMIC RESTRAINTS AND SUPPORTS FOR DESIGNING EQUIPMENT VIBRATION ISOLATION BASES AND SUPPORTS.
- INCLUDE DESIGN CALCULATIONS FOR HANGERS, SUPPORTS AND SEISMIC RESTRAINTS FOR PIPING.
- MATERIALS, FABRICATION, ASSEMBLY, AND SPACING OF HANGERS AND SUPPORTS FOR PIPING.
- SEISMIC RESTRAINT DETAILS: DETAIL FABRICATION AND ATTACHMENT OF WIND AND SEISMIC RESTRAINTS AND SNUBBERS. SHOW ANCHORAGE DETAILS AND INDICATE QUANTITY, DIAMETER, AND DEPTH OF PENETRATION OF ANCHORS.
- SEISMIC PERFORMANCE: ALL COMPONENTS SHALL WITHSTAND EFFECTS OF EARTHQUAKE MOTIONS DETERMINED ACCORDING TO CURRENT VERSION ASCE/SEI 7. TERM "WITHSTAND" MEANS "UNIT WILL REMAIN IN PLACE WITHOUT SEPARATION OF ANY PARTS WHEN SUBJECTED TO SEISMIC FORCES SPECIFIED.
- SEISMIC PERFORMANCE: PIPING HANGERS AND SEISMIC RESTRAINTS SHALL WITHSTAND EFFECTS OF GRAVITY AND SEISMIC LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS DESCRIBED IN CURRENT VERSION OF ASCE/SEI 7. SEISMICALLY BRACE PIPE HANGERS AND SUPPORTS IN ACCORDANCE ASCE/SEI 7
- COMPONENT IMPORTANCE FACTOR: [1.5, 1.0]. FOR LIFE SAFETY COMPONENTS REQUIRED TO FUNCTION AFTER AN EARTHQUAKE (INCLUDING BUT NOT LIMITED TO PIPING THAT CONTAINS HAZARDOUS CONTENT, FIRE PROTECTION SPRINKLER SYSTEM, ETC) THE COMPONENT IMPORTANCE FACTOR IS 1.5. FOR ALL OTHER COMPONENTS, THE COMPONENT IMPORTANCE FACTOR IS 1.0.
- SEISMIC HAZARD LEVEL (SHL): [D]

13. ALL INSTALLATION IN DAMP, WET, WASHDOWN OR OUTDOOR LOCATIONS SHALL BE SUITABLE/RATED FOR THOSE APPLICATIONS.

14. AS EQUAL EQUIPMENT AND DEVICES ARE PERMITTED ONLY IF SPECIFICALLY ALLOWED ON DRAWINGS AND SPECIFICATIONS. CONTROLLERS, DEVICES, ACCESSORIES, SENSORS THAT ARE NOT CALLED OUT WITH SPECIFIC MANUFACTURER OR MODEL, SHALL BE SELECTED BY CONTRACTOR TO PROPERLY INTEGRATE WITH BAS SYSTEM AND MEET GENERAL PROJECT REQUIREMENTS.

PIPE LABELING SPECIFICATIONS

1. ALL OVERHEAD PIPING SHALL BE PROVIDED WITH LABELS TO CLEARLY IDENTIFY PIPING TYPE AND DIRECTION OF PIPING FLOW. PIPING LABELS SHALL BE SNAP AROUND TYPE WITH NO ADHESIVE REQUIRED. ALL OVERHEAD PIPING SHALL BE LABELED BASED ON SPECIFICATION TABLE BELOW. FOR ALL EXPOSED PIPING DROPS, PIPING LABELS SHALL BE PLACED ON EACH PIPE AT 24" ABOVE BENCH HEIGHT (VERIFY LABEL HEIGHT WITH OWNER). LABELS SHALL BE APPLIED CLOSE TO VALVES OR FLANGES AND ADJACENT TO CHANGES IN DIRECTION, BRANCHES AND WHERE PIPES PASS THROUGH WALLS OR FLOORS; AND AT 20'-0" INTERVALS ON STRAIGHT PIPE RUNS SUFFICIENT FOR IDENTIFICATION.

2. CLASSIFICATION OF HAZARDS OF MATERIALS

2.1 FLAMMABLE OR EXPLOSIVE: THIS CLASSIFICATION INCLUDES MATERIALS WHICH ARE EASILY IGNITED. IT INCLUDES MATERIALS KNOWN AS FIRE PROCEDURES OR THOSE CREATING AN EXPLOSIVE ATMOSPHERE.

2.2 CHEMICALLY ACTIVE OR TOXIC: THIS CLASSIFICATION INCLUDES MATERIALS WHICH ARE CORROSIVE, OR ARE IN THEMSELVES TOXIC OR PRODUCTIVE OF POISONOUS GASES

2.3 MATERIALS OF INHERENTLY LOW HAZARD: THIS CLASSIFICATION INCLUDES ALL MATERIALS WHICH ARE NOT HAZARDOUS BY NATURE, AND ARE NEAR ENOUGH TO AMBIENT PRESSURE AND TEMPERATURE THAT PEOPLE WORKING ON SYSTEMS CARRYING THESE MATERIALS RUN LITTLE RISK THROUGH THE RELEASE OF THESE MATERIALS.

3. DESIGNATION OF COLORS FOR LABELS

COLOR CLASSIFICATION	COLOR OF FIELD	LETTERS FOR LEGEND
FLAMMABLE OR EXPLOSIVE:	YELLOW	BLACK
CHEMICALLY ACTIVE OR TOXIC:	YELLOW	BLACK
MATERIALS OF INHERENTLY LOW HAZARD ;		
LIQUID OR LIQUID ADMIXTURE	GREEN	WHITE
GAS OR GASEOUS ADMIXTURE	BLUE	WHITE

4. TYPE AND SIZE OF LETTERS

OUTSIDE DIAMETER OF PIPE OR COVERING	LENGTH OF COLOR FIELD A	SIZE OF LETTERS B
INCHES	INCHES	INCHES
3/4 TO 1-1/4	8	1/2
1-1/2 TO 2	8	3/4
2-1/2 TO 6	12	1-1/4

5. SPECIFICATIONS

5.1 MATERIAL : OUTDOOR GRADE ACRYLIC PLASTIC.

5.2 TEMPERATURE RANGE : -40 DEGREES F TO +180 DEGREES F

5.3 APPLICATION TEMPERATURE : 40 DEGREES F

5.4 MATERIAL THICKNESS : DIAMETERS TO 6" - 16 MIL DIAMETERS

5.5 MANUFACTURE : SETON NAME PLATE, CO., NEW HAVEN, CT, 800-234-6624, WWW.SETON.COM OR EQUAL

REV	DESCRIPTION	DATE	BY
	OWNER REVIEW	21 JUL 23	RMB
	30% PRICING SET	28 JUL 23	RMB
	90% DESIGN DOCUMENTS	23 FEB 24	RMB
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B	ISSUED FOR PERMIT	15 MAY 24	RMB
	ISSUED FOR PERMIT	28 JUN 24	RMB

ENGINEERS / ARCHITECTS
1402 NORTHWOOD DRIVE, SALISBURY, MARYLAND 21801-7634
PH: (410) 742-7299 FAX: (410) 742-0273
AWB ENGINEERS

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CPFD

WHITING-TURNER

PLUMBING SCHEDULES AND SPECS

FREEZER EXPANSION
PUYALLUP, WASHINGTON

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

NATHAN MASON INGRAM — STATE OF WASHINGTON — 23000402 — REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

SCALE	As Indicated
DRAWN	RMB
PROJ.MGR.	MRS
JOB	221205
SHEET	P-601

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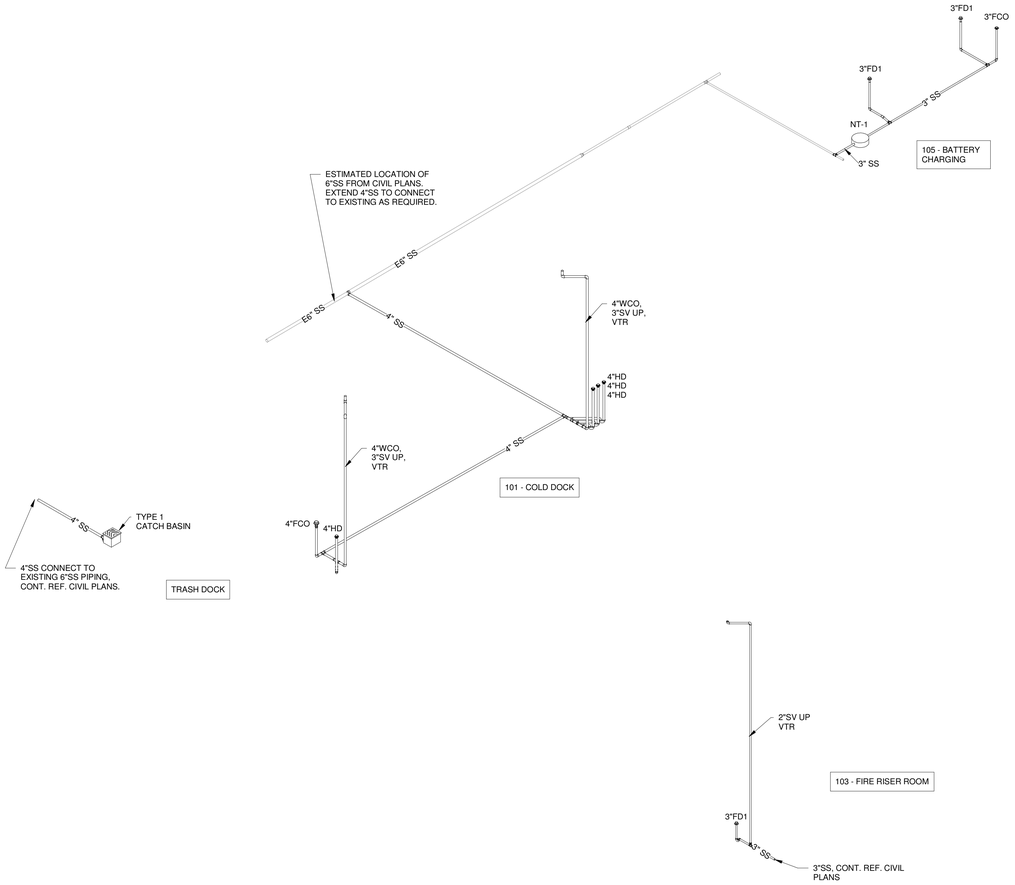

UNDERSLAB ISOMETRIC VIEW
SCALE:

REV	DESCRIPTION	BY	DATE
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	ISSUED FOR PERMIT	RMB	08 MAR 24
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WHITING-TURNER

UNDERSLAB ISOMETRIC VIEW

FREEZER EXPANSION
PUYALLUP, WASHINGTON

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

STATE OF WASHINGTON
23003482
REGISTERED PROFESSIONAL ENGINEER
MASON MASON JAMISON
28 JUN 2024

SCALE	3/32"=1'-0"
DRAWN	RMB
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JOB	221205
SHEET	P-901

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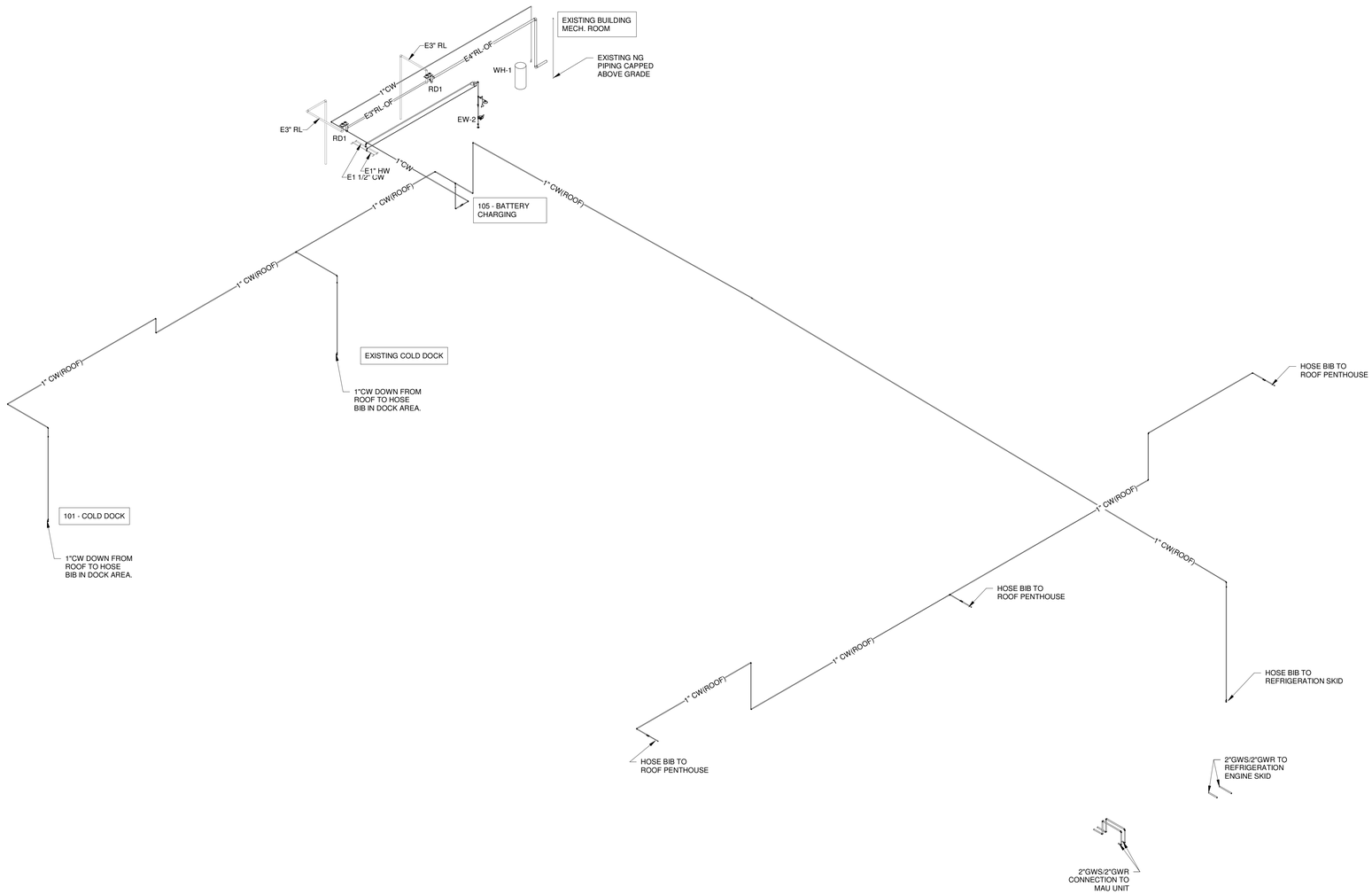

OVERHEAD ISOMETRIC VIEW
SCALE:

REV	DESCRIPTION	BY	DATE
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	ISSUED FOR PERMIT	RMB	08 MAR 24
A	ISSUED FOR PERMIT	RMB	15 MAY 24
B	ISSUED FOR PERMIT	RMB	28 JUN 24

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OVERHEAD ISOMETRIC VIEW

FREEZER EXPANSION
PUYALLUP, WASHINGTON

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

MATTHEW MASON JACKSON
STATE OF WASHINGTON
23004492
REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

SCALE	3/32"=1'-0"
DRAWN	RMB
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JOB	221205
SHEET	P-902

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PLUMBING DEMO PLAN - FIRST FLOOR

SCALE: 3/32" = 1'-0"

City of Puyallup
Development & Permitting Services
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Building | Planning
Engineering | Public Works
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28 JUN 2024

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B	ISSUED FOR PERMIT	28 JUN 24	RMB

PROJECT NORTH

ENGINEERS / ARCHITECTS
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WHITTING-TURNER

PLUMBING DEMO PLAN

FREEZER EXPANSION

PUYALLUP, WASHINGTON

SCALE	3/32" = 1'-0"
DRAWN	RMB
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JOB	221205
SHEET	PD-101

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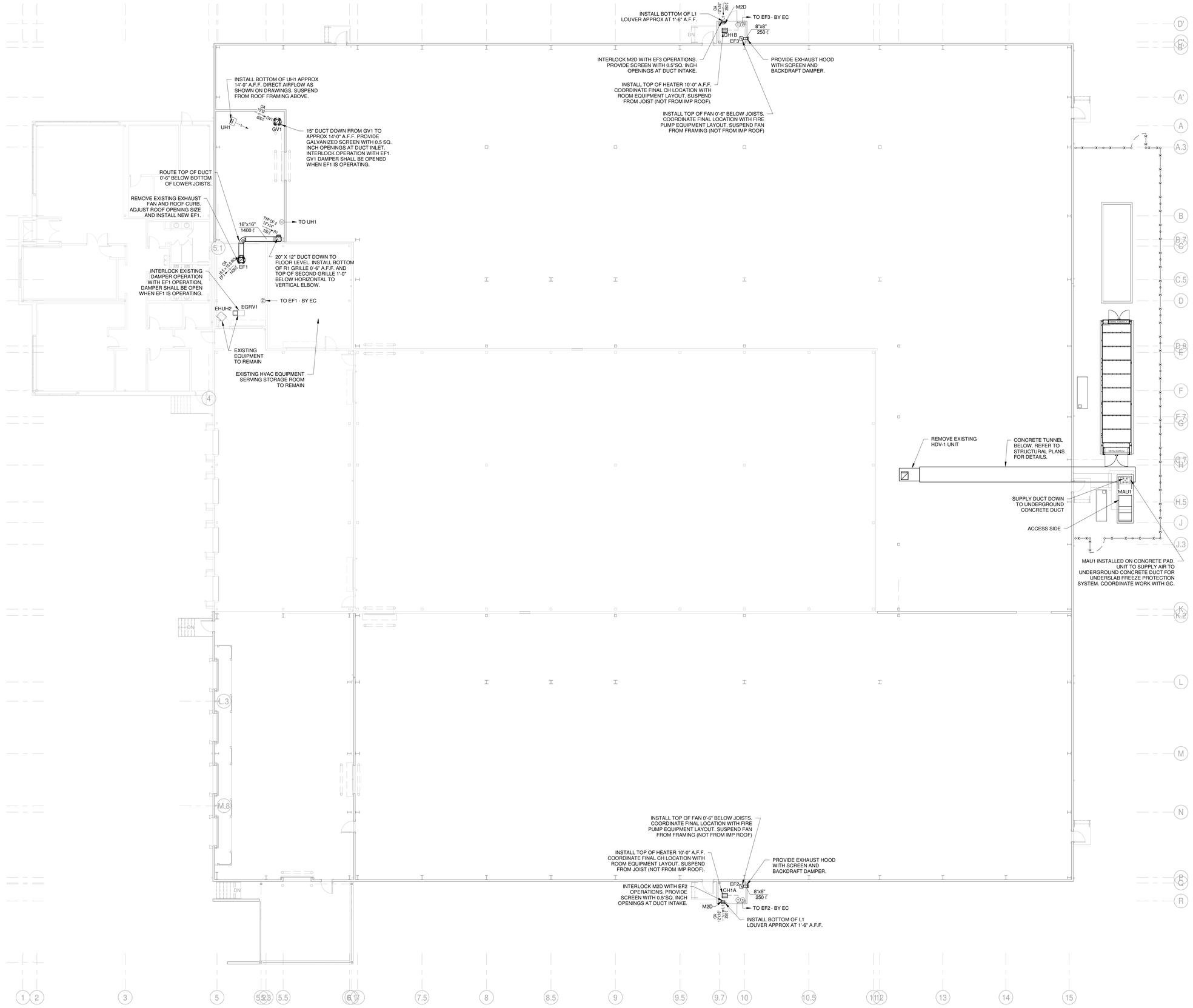

1 M-101 HVAC PLAN - FIRST FLOOR
SCALE: 3/32" = 1'-0"

2 M-101 HVAC PLAN - FIRE PUMP ROOM
SCALE: 3/32" = 1'-0"

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	OWNER REVIEW	21 JUL 23	NJA
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PROJECT NORTH

ENGINEERS / ARCHITECTS
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WHITING-TURNER

HVAC PLANS

FREEZER EXPANSION
PUYALLUP, WASHINGTON

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

MATTHEW MASON — STATE OF WASHINGTON — 23005482 — REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

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MECHANICAL EQUIPMENT SCHEDULE

MAU1 MAKEUP AIR UNIT - GREENHECK # MSX-P122-H22-D1 WITH HOT WATER HEATING COIL, 3 ROWS COIL, ENTERING AIR = 5°F, LEAVING AIR = 60°F, 30% GLYCOL(COIL FLOW RATE = 30.8 GPM @ 2.86 IN. PRESSURE DROP), 292.6 MBH HEATING OUTPUT, BOTTOM VERTICAL DISCHARGE POSITION, 100% OUTSIDE AIR = 5,000 CFM @ 3.6 E.S.P. DIRECT DRIVE BACKWARD CURVED PLENUM FAN, VIBRATION ISOLATORS, VFD FOR AIRFLOW BALANCING, VFD RATED FANMOTOR, EXTERIOR HOUSING CONSTRUCTED OF GALVANIZED STEEL, ENTIRE UNIT DOUBLE WALL WITH 1" FIBERGLASS INSULATION, BASE INSULATION WITH ENTIRE UNIT BASE PAN, OUTDOOR AIR WEATHERHOOD WITH BIRDSCREEN, ALUMINUM FILTER, LOW LEAKAGE OUTDOOR AIR INLET DAMPER, HEAT INLET AIR TEMPERATURE SENSOR, ACCESS SIDE AS SHOWN ON PLAN, HINGED ACCESS DOORS, DIRTY FILTER SWITCH, FREEZE PROTECTION, ALL NECESSARY SENSORS FACTORY MOUNTED OR MANUFACTURER SUPPLIED, SMOKE DETECTOR, AIRFLOW PROVING MONITORING CONTACT, HIGH AND LOW PRESSURE SWITCH, VISUAL INDICATION VALVES, FOR 480-60-3 VOLT HOOK-UP, MCA= 14.1 AMPS, MOCP=25 AMPS, APPROXIMATE WEIGHT=1,224 LBS. - MICROPROCESSOR UNIT LOCATED IN UNIT, INTERFACE/SEQUENCE OF OPERATION FOR FURTHER REQUIREMENTS. PROVIDE BASE FOR ON CONCRETE INSTALLATION, PANELED BOTTOM.

EF1 ROOFTOP EXHAUST FAN - GREENHECK # CUE-120-VG, DIRECT DRIVE WITH VARI-GREEN MOTOR, RATED 1400 CFM AT 0.6"ESP(0.94"W.G. INCLUDING BACKDRAFT DAMPER), WITH 1/2 HP 120-60-1 VOLT HOOK UP, HIGH EFFICIENCY MOTOR (DIAL ON MOTOR), 1725 FRPM, THERMAL OVERLOAD, 14" HIGH INSULATED SLOPED ROOF CURB FOR LEVEL FAN MOUNTING, FOR SEISMIC CATEGORY AS SPECIFIED ON DRAWINGS, 1-3/4" CURB CAP, GRAVITY BACKDRAFT DAMPER WD-100, HI-PRO POLYESTER COATING (FAN AND ATTACHED ACCESSORIES), BIRD SCREEN, APPROXIMATE WEIGHT= 53LBS. DAMPER SHALL BE TESTED IN ACCORDANCE WITH AMCA 500D.

EF2 EXHAUST FAN - GREENHECK SP-A250 CEILING EXHAUST FAN, RATED 250 CFM @ 0.3" ESP, 120-60-1 VOLT HOOK-UP, 0.56 AMPS, THERMAL OVERLOAD, 8x8 RECTANGULAR DUCT CONNECTION, INTEGRAL BACKDRAFT DAMPER WITH GRILLE, VIBRATION ISOLATORS, PROVIDE SOLID STATE SPEED CONTROL. ADJUST AIRFLOW RATE AS SHOWN PLANS.

EF3 EXHAUST FAN - GREENHECK SP-A250 CEILING EXHAUST FAN, RATED 250 CFM @ 0.3" ESP, 120-60-1 VOLT HOOK-UP, 0.56 AMPS, THERMAL OVERLOAD, 8x8 RECTANGULAR DUCT CONNECTION, INTEGRAL BACKDRAFT DAMPER WITH GRILLE, VIBRATION ISOLATORS, PROVIDE SOLID STATE SPEED CONTROL. ADJUST AIRFLOW RATE AS SHOWN PLANS.

UH1 ELECTRIC UNIT HEATER - QMARK MODEL #MUH-204, 20KW HORIZONTAL ELECTRIC UNIT HEATER, 1320 CFM, WITH 1/20 HP 480-60-3 MOTOR 24 AMPS, WALL MOUNT THERMOSTAT WITH LOCKING COVER, FAN RELAY, ADJUSTABLE DISCHARGE AIR LOUVER, SUSPENSION OR WALL MOUNTING KIT AS PER APPLICATION, SEALED JUNCTION BOX, FULL FAN GUARD, NET WEIGHT = 60 LBS.

CH1"X" ELECTRIC CEILING HEATER - QMARK #EFF1500 FAN FORCED HEAVY DUTY ELECTRIC CEILING HEATER, 1500 WATTS, 150 CFM, EFFT2 REMOTE THERMOSTAT, THERMAL OVERHEAT PROTECTOR, BUILT IN FAN DELAY. FOR 120-60-1 VOLT HOOK-UP, 12.5 AMPS. PROVIDE FRAME TO SUSPEND HEATER FROM STRUCTURE ABOVE AND SPACE TAMPER-RESISTANT THERMOSTAT.

GV1 INTAKE GRAVITY HOOD - GREENHECK #GRSI ROOF INTAKE VENTILATOR WITH INTEGRAL BIRD SCREEN AND INSECT SCREEN, BUILT IN 1-3/4" CURB CAP, 14" INSULATED SLOPED ROOF CURB FOR LEVEL MOUNTING AND SEISMIC RESTRAINT CATEGORY AS SPECIFIED ON DRAWINGS AND VCD-33 LOW LEAKAGE MOTORIZED OPPOSED BLADE OPERATION OUTSIDE AIR DAMPER WITH ACTUATOR (EXTERNALLY MOUNTED, SPRING RETURN FAIL CLOSED ACTUATOR). ACTUATOR VOLTAGE (AND CONTROL TRANSFORMER) AS REQUIRED FOR SEQUENCE OF OPERATION (COORDINATE WORK WITH ELECTRICAL CONTRACTOR). SIZE AS SHOWN ON DRAWINGS.

L1 INTAKE LOUVER - GREENHECK EDJ-401, HEAVY GAUGE 6063T5 EXTRUDED ALUMINUM, 4 IN. X 0.081 IN. NOMINAL DIMENSIONS, 3 COAT 70% KYNAR 500/HYLAR 5000, DRAINABLE HEAD MEMBER WITH STATIONARY J STYLE BLADE, FRAME WITH CHANNEL, WITH INTERNALLY MOUNTED FLATTENED EXPANDED ALUMINUM BIRD SCREEN, INTERNALLY MOUNTED ALUMINUM INSECT SCREEN, SIZE AS SHOWN ON DRAWINGS, PAINT TO MATCH BUILDING EXTERIOR COLORS. PROVIDE AND ATTACH TO LOUVER: LOW LEAKAGE DAMPER - GREENHECK VCD-40, 3 CFM/SQ FT. AT 1"W.G. LEAKAGE, EXTRUDED ALUMINUM AIRFOIL BLADES WITH OPPOSED BLADE ACTION AND SEAL, ALUMINUM FRAME, LINKAGE OUT OF AIRSTREAM, EXTERNAL KIT FOR ACTUATOR MOUNTING, ACTUATOR WITH SPRING RETURN AND FAIL OPEN, ACTUATOR VOLTAGE AS REQUIRED TO INTERLOCK WITH MECHANICAL EQUIPMENT, OUT OF AIRSTREAM RIGHT/LEFT SIDE ACTUATOR LOCATION (PER AVAILABLE SPACE), AUXILIARY OPEN/CLOSED SWITCH. SIZE TO MATCH LOUVER SIZE.

R1 HEAVY DUTY GYM GRILLE - PRICE SERIES 96 HEAVY DUTY GYM GRILLE, 45° DEFLECTION GRILLE, 1-1/4" HEAVY GAUGE FLAT STEEL BORDER, SIZE AS INDICATED ON DRAWING

MECHANICAL EQUIPMENT SCHEDULE - FIRE PUMP ROOM

EF4 EXHAUST FAN - GREENHECK SP-700-VG CEILING EXHAUST FAN, RATED 700 CFM @ 0.39" SP, 120-60-1 VOLT HOOK-UP, 0.33 AMPS, THERMAL OVERLOAD, 19.5x8 RECTANGULAR DUCT CONNECTION, INTEGRAL BACKDRAFT DAMPER WITH GRILLE, VIBRATION ISOLATORS, PROVIDE SOLID STATE SPEED CONTROL. ADJUST AIRFLOW RATE AS SHOWN PLANS.

CH2"X" ELECTRIC CEILING HEATER - QMARK #EFF1500 FAN FORCED HEAVY DUTY ELECTRIC CEILING HEATER, 1500 WATTS, 150 CFM, EFFT2 REMOTE THERMOSTAT, THERMAL OVERHEAT PROTECTOR, BUILT IN FAN DELAY. FOR 120-60-1 VOLT HOOK-UP, 12.5 AMPS. PROVIDE FRAME TO SUSPEND HEATER FROM STRUCTURE ABOVE AND SPACE TAMPER-RESISTANT THERMOSTAT.

L2"X" INTAKE LOUVER - GREENHECK EDJ-401, HEAVY GAUGE 6063T5 EXTRUDED ALUMINUM, 4 IN. X 0.081 IN. NOMINAL DIMENSIONS, 3 COAT 70% KYNAR 500/HYLAR 5000, DRAINABLE HEAD MEMBER WITH STATIONARY J STYLE BLADE, FRAME WITH CHANNEL, WITH INTERNALLY MOUNTED FLATTENED EXPANDED ALUMINUM BIRD SCREEN, INTERNALLY MOUNTED ALUMINUM INSECT SCREEN, SIZE AS SHOWN ON DRAWINGS, PAINT TO MATCH BUILDING EXTERIOR COLORS. PROVIDE AND ATTACH TO LOUVER: LOW LEAKAGE DAMPER - GREENHECK VCD-40, 3 CFM/SQ FT. AT 1"W.G. LEAKAGE, EXTRUDED ALUMINUM AIRFOIL BLADES WITH OPPOSED BLADE ACTION AND SEAL, ALUMINUM FRAME, LINKAGE OUT OF AIRSTREAM, EXTERNAL KIT FOR ACTUATOR MOUNTING, ACTUATOR WITH SPRING RETURN AND FAIL OPEN, ACTUATOR VOLTAGE AS REQUIRED TO INTERLOCK WITH MECHANICAL EQUIPMENT, OUT OF AIRSTREAM RIGHT/LEFT SIDE ACTUATOR LOCATION (PER AVAILABLE SPACE), AUXILIARY OPEN/CLOSED SWITCH. SIZE TO MATCH LOUVER SIZE.

MECHANICAL EQUIPMENT GENERAL SEQUENCE OF OPERATION

SEQUENCE OF OPERATION IS OF GENERAL FORM TO HIGHLIGHT MAIN EQUIPMENT FUNCTIONS. CONTRACTOR SHALL PROVIDE ALL CONTROL HARDWARE, ACCESSORIES, CONTROL WIRING AND PROGRAMMING IN ORDER TO PROVIDE PROPER SEQUENCE OF OPERATION. COORDINATE WITH ELECTRICAL AND BAS CONTRACTOR TYPE AND LOCATIONS OF CONTROL TRANSFORMERS, POWER SUPPLIES AND OCCUPANCY SENSORS. ALL INSTALLATION IN DAMP, WET, WASHDOWN OR OUTDOOR LOCATIONS SHALL BE SUITABLE/RATED FOR THOSE APPLICATIONS.

-EF1/GV1

· FAN SHALL OPERATE CONTINUOUSLY.

· GV DAMPER OPERATION SHALL BE INTERLOCKED WITH FAN OPERATION. DAMPER SHALL BE OPEN WHEN FAN IS OPERATING.

-EF2/L1, EF3/L1, EF4/L2A

· EF SHALL OPERATE BASED ON SPACE TEMPERATURE IN ORDER TO AVOID HEAT BUILDUP IN SPACE.
TEMP SETPOINT 80 DEG F.

· LOUVER DAMPER SHALL BE OPEN WHEN EF IS OPERATING.

-L2B/L2C

· LOUVER DAMPER SHALL BE OPEN WHEN FIRE PUMP IS OPERATING.

-ELECTRIC HEATER - UH1/CH1

· UNIT HEATERS SHALL MAINTAIN TEMPERATURE IN SPACE AND SHALL START OPERATION BASED ON THERMOSTAT MINIMUM SPACE TEMPERATURE SETPOINT.

a. SPACE TEMPERATURE SETPOINT (HEATING) =50°F

-MAU1 UNIT

· OWNER SHALL BE ABLE TO CONTROL UNIT OPERATION FROM CONTROL PANEL LOCATED AT UNIT.

· UNIT SHALL MAINTAIN HEATING DISCHARGE TEMPERATURE SETPOINT (DT). DT SHALL BE ADJUSTABLE FROM CONTROL PANEL AND SHALL BE SET TO DT=60°F. HEATING SHALL BE LOCKED OUT AT OUTDOOR TEMPERATURES ABOVE 60°F (ADJ.) SYSTEM SHALL MODULATE HEATING CAPACITY IN ORDER TO MAINTAIN DISCHARGE TEMPERATURE SETPOINT.

· UNIT SHALL PROVIDE CONSTANT AIRFLOW RATE AND CONTINUOUS OPERATION.

MECHANICAL SYSTEM BALANCING AND TESTING SPECIFICATIONS

1. TESTING AND BALANCING OF MECHANICAL SYSTEMS MUST BE PERFORMED BY AN APPROVED MEMBER OF ASSOCIATED AIR BALANCE COUNCIL (AABC) WHO SHALL TEST, ADJUST, AND BALANCE AIR/WATER SYSTEMS FOR THIS PROJECT.

2. ALL INSTRUMENTS USED SHALL BE ACCURATELY CALIBRATED AND MAINTAINED IN GOOD WORKING ORDER. IF REQUESTED, CALIBRATION TESTS OF EQUIPMENT TO BE USED SHALL BE PERFORMED IN PRESENCE OF ENGINEER.

3. TESTING AND BALANCING CONTRACTOR SHALL REVIEW CONSTRUCTION DOCUMENTS AND HVAC SYSTEM LAYOUT AND PROVIDE RECOMMENDATION FOR ANY ADDITIONAL BALANCING EQUIPMENT (OR LOCATIONS) BEFORE ANY DUCT OR PIPING MANUFACTURING AND INSTALLATION. MECHANICAL CONTRACTOR SHALL IMPLEMENT TAB CONTRACTOR RECOMMENDATIONS.

4. MECHANICAL EQUIPMENT IS TO HAVE AIR/WATER FLOWS BALANCED AS SPECIFIED ON DRAWINGS AND AS REQUIRED FOR PROPER OPERATION OF MECHANICAL EQUIPMENT. EQUIPMENT TOTAL BALANCED AIR/WATER FLOW RATE SHALL NOT BE LESS THAN SPECIFIED ON DRAWINGS.EQUIPMENT WITH VFD SHALL HAVE TOTAL AIRFLOW BALANCED WITH VFD. VOLUME DAMPERS SHALL BE USED ONLY TO "HELP" WITH BALANCING PROCESS BUT NOT INTRODUCE UNNECESSARY PRESSURE DROP IN SYSTEM.

5. EACH INDIVIDUAL SUPPLY, RETURN AND EXHAUST AIRFLOW DEVICE (DIFFUSER, GRILLE, FAN, ETC.) SHALL HAVE AIRFLOW BALANCED WITHIN (-)5% TO (+)10% SPECIFIED AIRFLOW RATE. DAMPERS INSTALLED TO OBTAIN REQUIRED AIR FLOW ARE TO BE PERMANENTLY MARKED AT BALANCED POSITION.

6. THE BALANCING AGENCY SHALL PREPARE A WRITTEN REPORT WHICH SHALL INCLUDE DIAGRAMS AND DESCRIPTION OF PROCEDURES TOGETHER WITH ALL RECORDED TEST DATA INCLUDING BUT NOT LIMITED TO:

· BALANCED AIRFLOW RATES (INCLUDING OA RATE) FOR EACH INDIVIDUAL AIRFLOW DEVICE, OA DUCT AND TOTAL FLOW RATES AT UNIT DISCHARGE AND RETURN. TOTAL FLOW RATES AT UNIT SHALL BE MEASURED (NOT SUM OF INDIVIDUAL OUTLETS).
· PRESSURE READINGS (PRESSURE READING LOCATIONS SHALL BE SHOWN ON A DIAGRAM). AT MINIMUM, PRESSURE READINGS SHALL BE:
·· UPFLOW AND DOWNFLOW FILTERS,
·· UPFLOW AND DOWNFLOW AIR UNIT,
·· UPFLOW AND DOWNFLOW COILS(IF READING IS FEASIBLE)
· RETURN, EXHAUST, MIXED AND DISCHARGE AIR TEMPERATURE (DRY AND WET BULB TEMP) OF ALL HVAC UNITS IN COOLING AND HEATING MODE.
· HVAC PLAN WITH DEVICE TAG CORRESPONDING TO TAG NUMBER WITH MEASURED VALUES

7. THE BALANCING AGENCY SHALL SUBMIT THE AGENCY CERTIFICATION AND AN EXAMPLE REPORT FOR REVIEW. THE SUBMITTED EXAMPLE REPORT SHALL INCLUDE LIST OF ALL BALANCED AND MEASURED PARAMETERS THAT WILL BE RECORDED AND SUBMITTED FOR FINAL APPROVAL.

8. TESTING AND BALANCING PROCEDURES SHALL BE COORDINATED WITH MECHANICAL AND BAS CONTRACTOR IN ORDER TO ACHIEVE AIR FLOWS PER FINAL SEQUENCE OF OPERATION.

9. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PERFORMANCE OF ENTIRE HVAC SYSTEM, INCLUDING TESTING AND BALANCING WORK. MECHANICAL CONTRACTOR SHALL MONITOR BALANCING AND TESTING OF SYSTEM AND SHALL CERTIFY THAT READINGS REQUIRED UNDER THIS SECTION HAVE ACTUALLY BEEN MADE AND THAT ALL SYSTEMS ARE IN ACTUAL OPERATION. TEST AND BALANCE DATA SHALL BE SIGNED BY MECHANICAL CONTRACTOR. AT TIME OF FINAL REVIEW, IF IT IS APPARENT THAT THESE READINGS HAVE NOT BEEN MADE, OR THAT EQUIPMENT IS NOT IN OPERATION, EXPENSE FOR RETURN OF ENGINEER AND/OR ARCHITECT SHALL BE BILLED TO MECHANICAL CONTRACTOR.

MECHANICAL SPECIFICATIONS

1. ALL WORK SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANSHIP LIKE MANNER, UTILIZING NEW MATERIALS OF THE BEST QUALITY AND OF STANDARD GRADE, SUITABLE FOR THE PARTICULAR APPLICATION. CONTRACTOR SHALL FURNISH MANUFACTURER'S CUT SHEETS OR SUBMITTALS FOR ALL MAJOR PIECES OF EQUIPMENT (INCLUDING BUT NOT LIMITED TO HVAC UNITS, FANS, DAMPERS, LOUVERS, INSULATION, DUCTWORK AND OTHER SIMILAR DEVICES) PRIOR TO THEIR PURCHASE. SUBMITTALS SHALL INCLUDE RATED CAPACITIES, OPERATING CHARACTERISTICS, CONSTRUCTION, FURNISHED ACCESSORIES AND SPECIALTIES. SUBMITTALS SHALL CLEARLY HIGHLIGHT ALL REQUIRED PRODUCT DATA. GENERAL PRODUCT BROCHURE IS NOT ACCEPTABLE AND WILL BE REJECTED WITHOUT REVIEW.

2. U.N.O. AS EQUAL EQUIPMENT AND DEVICES ARE PERMITTED. SHOULD AS EQUAL EQUIPMENT BE SUBMITTED, IT IS CONSTRUCTOR RESPONSIBILITY TO PROVIDE ALL DATA PROVING THAT SUBMITTED EQUIPMENT HAVE EQUAL (OR BETTER) CONSTRUCTION QUALITY AND PERFORMANCE CHARACTERISTICS AS EQUIPMENT SPECIFIED FOR THIS PROJECT. SUBMITTAL SHALL INCLUDE CONSTRUCTION AND PERFORMANCE COMPARISON. IT ALSO SHALL INCLUDE LAYOUT SHOWING THAT NEW EQUIPMENT (WITH CLEARANCES) WILL PROPERLY FIT IN LOCATION AND WILL WORK WITH BUILDING STRUCTURE AND DUCTWORK. AS EQUAL SUBMITTAL WITHOUT CONSTRUCTION AND PERFORMANCE COMPARISON AND EQUIPMENT LAYOUT WILL BE REJECTED AND SUBMITTED EQUIPMENT CONSIDERED AS NOT EQUAL.

3. ALL MODEL NUMBERS LISTED ON DRAWINGS AND IN SPECIFICATIONS ARE BASIS OF DESIGN ONLY. FINAL MODEL NUMBER SHALL BE ESTABLISHED BY MANUFACTURER BASED ON EQUIPMENT DESCRIPTION, CALLED OUT FEATURES AND SEQUANCE OF OPERATION.

4. IT IS INTENDED THAT CONTRACTOR SHALL PROVIDE COMPLETE AND OPERABLE HVAC SYSTEMS EVEN THOUGH THE PLANS DO NOT NECESSARILY INDICATE ALL COMPONENTS REQUIRED FOR OPERATION. THE SYSTEM SHALL BE SUITABLE FOR CONTINUOUS SATISFACTORY OPERATION AND COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS, INCLUDING ENERGY CONSERVATION CODE. MECHANICAL AND ENERGY CONSERVATION CODE IS THE BASIS OF DESIGN FOR THIS PROJECT.

5. CONTRACTOR IS RESPONSIBLE FOR CREATING RED LINE MARKUPS TO OWNER. SHOULD IT BE FOUND THAT RED LINE MARKUPS ARE NOT CORRECT, CONTRACTOR SHALL BE RESPONSIBLE FOR RETURNING TO PROJECT SITE AND CORRECTING RED LINE MARKUPS AT NO ADDITIONAL COST.

6. UNLESS NOTED OTHERWISE, CONTRACTOR TO FURNISH MATERIALS AND LABOR FOR HOOK-UP OF MECHANICAL SYSTEMS TO EQUIPMENT FURNISHED BY OWNER OR OTHERS. VERIFY THE EXACT LOCATION OF THE HOOK-UP PRIOR TO THE INSTALLATION OF SYSTEMS CONNECTED TO EQUIPMENT BEING SUPPLIED BY OTHERS.

7. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS AND ROOFS. PROVIDE SLEEVES OF PVC PIPING OF AN ADEQUATE SIZE TO ACCOMMODATE PIPING AND INSULATION. DUCTS OR OTHER LARGE SYSTEMS SHALL HAVE SLEEVES CONSTRUCTED OF GALVANIZED SHEET METAL. ALL EXPOSED STEEL EDGES SHALL BE COATED WITH COLD GALVANIZING COMPOUND. VOIDS OR CRACKS AROUND PIPING OR DUCTS SHALL BE SEALED TO PREVENT THE ENTRY OF WATER.

8. U.N.O. PIPING AND DUCTWORK HANGERS, RODS, ANGLES, AND OTHER SUPPORT MEMBERS SHALL BE GALVANIZED STEEL (STAINLESS STEEL IN LABORATORY AND FOOD PROCESSING AREAS). SPACING SHALL CONFORM WITH SMACNA REQUIREMENTS.

9. UNLESS NOTED OTHERWISE ALL RIGID DUCTWORK (ROUND AND RECTANGULAR) SHALL BE CONSTRUCTED OF G-60 OR G-90 (CONFORMING TO ASTM A653 AND A924 STANDARDS) GALVANIZED SHEET METAL. SHEET METAL GAUGE SHALL BE IN ACCORDANCE WITH SMACNA GUIDELINES AND SHALL FOLLOW GOOD CONSTRUCTION PRACTICES. ALL JOINTS AND SEAMS SHALL BE MADE AIRTIGHT WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

10. ALL RECTANGULAR DUCTWORK ELBOWS SHALL BE SMOOTH RADIUS WITH SPLITTER VANES OR METER ELBOWS WITH 1-1/2" SPACING SINGLE THICKNESS VANES AS SHOWN ON THE DRAWINGS. All DUCTWORK TRANSITIONS SHALL BE MAX. 30° PER ONE SIDE (UNLESS GREATER TRANSITION REQUIRED DUE TO SPACE INSTALLATION SPACE). DUCT TURNING RELAYING ON ADHESIVE CONNECTIONS ARE NOT ALLOWED.

11. RECTANGULAR BRANCH CONNECTION SHALL BE 45 DEGREE ENTRY OR SIMILAR. ROUND BRANCH CONNECTIONS SHALL BE RECTANGULAR TO ROUND ECCENTRIC FITTING, CONICAL TYPE OR BELL MOUTH TYPE. DO NOT USE STRAIGHT TAP CONNECTIONS.

12. U.N.O. PROVIDE VOLUME DAMPERS FOR EACH DIFFUSER BRANCH AT MAIN DUCT TAKEOFF (OR CLOSE VICINITY). ALL VOLUME AND MODULATING DAMPERS SHALL BE OPPOSED 3V OR AIRFOIL BLADES. VOLUME DAMPERS SHALL HAVE LOCKING FEATURE. U.N.O. VOLUME DAMPER MATERIAL SHALL MATCH DUCT MATERIAL.

13. ALL EXTERIOR LOUVERS, VENTS AND CONCENTRIC VENT TERMINATIONS SHALL BE PAINTED TO MATCH BUILDING EXTERIOR COLOR

14. DUCTWORK SHALL HAVE REINFORCING RIBS, CROSS-BROKEN SIDES OR OTHER SUPPLEMENTAL STIFFENERS AS REQUIRED TO PREVENT DRUMMING AND PROVIDE A STRUCTURALLY SOUND ASSEMBLY. ITS CONSTRUCTION SHALL BE AS REQUIRED TO PROVIDE A LOW RESISTANCE TO AIR FLOW FOLLOWING GOOD CONSTRUCTION PRACTICES AND IN ACCORDANCE WITH ASHRAE AND SMACNA GUIDELINES.

15. ALL DUCTWORK PENETRATIONS THROUGH FIRE RATED SURFACES UNDER 3 HOURS SHALL BE EQUIPPED WITH A MINIMUM 1.5 HOUR RATED FIRE DAMPER. ALL DUCTWORK PENETRATIONS THROUGH 3 HOUR FIRE RATED SURFACES OR GREATER SHALL BE EQUIPPED WITH A MINIMUM 3 HOUR RATED FIRE DAMPER. ALL DAMPERS SERVING HVAC UNITS (UNITS WITH LESS THAN 5 TONS) SHALL BE DYNAMIC FIRE DAMPERS. ALL DAMPERS SHALL BE LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH UL LISTING AND MANUFACTURER REQUIREMENTS. REVIEW ARCHITECTURAL DRAWINGS FOR ALL FIRE RATED ASSEMBLIES.

16. U.N.O. ALL DUCTS, EXCEPT THOSE EXHAUSTING DIRECTLY TO OUTSIDE, ARE TO BE WRAPPED WITH BLANKET ALUMINUM FOIL FACED REINFORCED FIBERGLASS, PHENOL/FORMALDEHYDE FREE, INSULATION WITH INSTALLED R=7 VALUE WHEN LOCATED IN CONDITIONED OR UNCONDITIONED SPACES (DUCTWORK IN ATTIC AREAS SHALL HAVE INSTALLED R-8 VALUE). TYPE FSK. INSULATION IS TO BE INSTALLED LOOSELY WITH MINIMUM OF COMPRESSION BEING CLINCH STAPLED AND SEALED WITH AN APPROVED SEALANT. INSULATE TOP (ABOVE CEILING) OF ALL DIFFUSERS. INSULATION SHALL NOT BE EXPOSED TO AIRSTREAM.

17. ALL EXTERIOR DUCTWORK SHALL BE SUPPORTED, CONSTRUCTED AND SEALED (WEATHERPROOF) IN ACCORDANCE WITH ALL SMACNA REQUIREMENTS AND SHALL HAVE MIN R=8 INSULATION (PHENOL/FORMALDEHYDE FREE). INSULATION SHALL NOT BE EXPOSED TO AIRSTREAM. WATER SHALL NOT COLLECT AT ANY POINT OF DUCTWORK. TOP SURFACES SHALL BE SLOPED IN ORDER TO ALLOW WATER FLOWING OF DUCT.

18. ALL EXTERIOR DEVICES AND WIRING SHALL BE RATED FOR OUTDOOR APPLICATIONS.

19. DUCT LINERS SHALL BE USED ONLY IF SPECIFICALLY CALLED OUT ON PLANS. DUCT LINERS SHALL BE ELASTOMETRIC DUCT LINERS, PREFORMED, CELLURAL, CLOSED-CELL SHEET MATERIALS COMPLYING WITH ASTM C534/C534M, TYPE II, GRADE I, AND WITH NFPA 90A/B. LINER ADHESIVE AS RECOMMENDED BY INSULATION MANUFACTURER AND COMPLYING WITH NFPA 90A/B.

20. INSULATION, COVERINGS AND LININGS SHALL HAVE FLAME SPREAD INDEX NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX NOT MORE THAN 50 WHEN TESTED PER PROCEDURES REFERENCED IN APPLICABLE CODES.

21. ALL UNITS 2000 CFM AIR FLOW RATE (OR 5 TON NOMINAL RATING) OR MORE SHALL BE EQUIPPED WITH A RETURN AIR DUCT SMOKE DETECTOR PER INTERNATIONAL MECHANICAL CODE AND A SUPPLY DUCT SMOKE DETECTOR PER NFPA 72 AND NFPA 90A REQUIREMENTS. DUCT SMOKE DETECTORS SHALL BE CONNECTED TO FIRE ALARM SYSTEM. UPON ACTIVATION, SMOKE DETECTORS SHALL SHUT DOWN EQUIPMENT FANS. UNITS SERVING SMOKE CONTROL SYSTEM SHALL SWITCH TO SMOKE CONTROL MODE.

22. U.N.O INTERIOR DUCTWORK CONSTRUCTION SHALL CONFORM TO SMACNA 1" W.G. PRESSURE CLASS CONSTRUCTION REQUIREMENTS AND SHALL CONFORM TO SMACNA "C" DUCT SEAL CLASS REQUIREMENTS (OR HIGHER SEAL CLASS AS PER SMACNA PRESSURE CLASS). EXTERIOR DUCTWORK CONSTRUCTION SHALL CONFORM TO SMACNA 3" W.G. PRESSURE CLASS CONSTRUCTION REQUIREMENTS AND SHALL CONFORM TO SMACNA "A" DUCT SEAL CLASS REQUIREMENTS (OR HIGHER SEAL CLASS AS PER SMACNA PRESSURE CLASS). ALL DUCT SEALANTS USED FOR FOOD AND PHARMACEUTICAL PRODUCTION SPACES SHALL BE FDA FOOD GRADE QUALITY.

23. FLEXIBLE DUCT NOT ALLOWED.

24. ALL HVAC EQUIPMENT PRODUCING CONDENSATE (INCLUDING HUMIDIFIERS) SHALL HAVE DRAIN PANS WITH CONDENSATE OVERFLOW SWITCH.

25. PROVIDE DUCT ACCESS DOORS FOR AUTOMATIC DAMPERS, HUMIDIFIERS, CONTROL DEVICES, FIRE AND SMOKE DAMPERS, SOUNDS TRAPS, IN-LINE FANS, COILS, AIRFLOW SENSORS AND OTHER ACCESSORIES REQUIRING ADJUSTMENT OR MAINTENANCE. PROVIDE CEILING OR WALL ACCESS DOORS FOR EQUIPMENT, DAMPERS AND OTHER ACCESSORIES REQUIRING ADJUSTMENT OR MAINTENANCE AND ARE LOCATED ABOVE HARD CEILING OR BEHIND WALLS. DOORS SHALL BE STAINLESS STEEL IN PROCESSING SPACES AND GALVANIZED IN OTHER SPACES. SIZES AS REQUIRED FOR MAINTENANCE. COLOR TO MATCH WALL/CEILING IN NON PROCESSING SPACES. ACCESS DOORS SHALL BE HINGED, LOCKABLE AND HAVE GASKETS. COORDINATE LOCATIONS WITH OTHER TRADES.

26. U.N.O. DUCT TRANSITION SHALL BE LOCATED MINIMUM 3'-0" AWAY FROM DUCT CONNECTION AT FAN.

27. ALL DUCT DIMENSIONS ARE INNER DIMENSIONS ONLY. UPSIZE DUCT IF SOUND REDUCTION LINER OR INNER THERMAL INSULATION IS PROVIDED IN ORDER TO MAINTAIN INNER DIMENSIONS AS SHOWN ON PLANS.

28. EACH EXTERIOR UNIT SHALL BE ATTACHED TO STRUCTURE IT IS INSTALLED ON IN ORDER TO PREVENT UNIT FALL. UNITS LOCATED ON ROOF SHALL BE PROVIDED WITH CURB OR FRAMING (AS REQUIRED FOR PROPER INSTALLATION) THAT IS ATTACHED TO ROOF STRUCTURE. INSTALLATION SHALL CONFORM WITH REQUIREMENTS FOR SEISMIC CATEGORY SPECIFIED ON DRAWINGS.

29. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING WORK, INCLUDING BUT NOT LIMITED TO EXISTING DUCT CONNECTION POINTS, DUCT ROUTING AS WELL AS EQUIPMENT QUANTITIES, LOCATIONS AND SIZES TO BE DEMOLISHED AND SEQUENCING OF WORK. IT IS EXPECTED THAT DURING CONSTRUCTION, EXISTING FACILITY WILL STAY IN OPERATION AS MUCH AS POSSIBLE WHILE PROPOSED WORK IS COMPLETED. THIS MAY REQUIRE WEEKEND OR EVENING/NIGHT CONSTRUCTION IN ORDER TO MINIMIZE PRODUCTION SHUTDOWN. CONTRACTOR SHALL REVIEW PHASING OF WORK DURING BIDDING PROCESS.

30. CONTRACTOR SHALL COORDINATE ALL DUCTWORK ROUTING AND DIFFUSER AND HVAC UNIT LOCATIONS (INCLUDING BUT NOT LIMITED TO HVAC UNITS, MUA UNITS, LOUVERS, ROOF HOODS, FANS) WITH BUILDING STRUCTURAL MEMBERS AND OTHER TRADES (INCLUDING T&B CONTRACTOR) BEFORE MATERIAL ORDER AND DUCTWORK MANUFACTURING OR EQUIPMENT INSTALLATION. COORDINATION SHALL INCLUDE BUT NOT BE LIMITED TO BUILDING STRUCTURAL MEMBERS, PROCESSING EQUIPMENT, CEILING ELEVATIONS, ELECTRICAL PANELS, LIGHTS, SPRINKLER SYSTEM, CABLE TRAY AND EXISTING CONDITIONS, ETC.

31. CONTRACTOR SHALL PERFORM COMMISSIONING OF HVAC SYSTEMS AND ITS OPERATION. REPORT WITH TEST PROCEDURES AND RESULTS (INCLUDING FUNCTIONAL TESTING CHECK LIST) SHALL BE PROVIDED TO ENGINEER OF RECORD FOR RECORD PURPOSES ONLY.

32. UNLESS REQUIRED OTHERWISE BY CONTROL SYSTEM MANUFACTURER AND CONTROL SYSTEM DESIGNER, COMMUNICATION/CONTROL CABLE SHALL BE SHIELDED TWISTED PAIR, STRANDED, TINNED COPPER CONDUCTORS OR ETHERNET CABLE FOR DATA OVER IP COMMUNICATION (AS REQUIRED FOR SYSTEM DESIGN, CONSTRUCTION AND OPERATION). WIRE GAUGE AS REQUIRED FOR LENGTH AND SIGNAL. SHIELD MUST BE CONTINUOUS THROUGHOUT, ISOLATED FROM OTHER CONDUCTORS OR GROUND, AND GROUNDED AT SYSTEM CONTROLLER ONLY. COMMUNICATION/CONTROL WIRING SHALL BE ROUTED SEPARATELY FROM AC-POWER WIRES. CONTROL WIRING IN EXPOSED LOCATIONS AND INSIDE WALLS SHALL BE ROUTED IN CONDUIT. CONTROL WIRING ABOVE CEILING SHALL BE ROUTED IN CONDUIT OR ROUTED ON CABLE TRAY. CONDUIT, COUPLINGS AND ALL ASSOCIATED FITTINGS SHALL BE (BASED ON LOCATION)
a. EXTERIOR ABOVE GRADE - GALVANIZED RIGID STEEL
b. UNDERGROUND (INSTALL BELOW FROST LINE) - PVC SCHEDULE 40
c. PROCESSING/WASHDOWN/WET/DAMP AREAS - GALVANIZED RIGID STEEL
d. INSIDE WALLS AND OTHER INDOOR AREAS - EMT

CONTROLS (SENSORS, HARDWARE, WIRING, CONTROL PROGRAM AND CONTROL LOOPS) SHALL BE CALIBRATED IN ORDER TO ACHIEVE SENSING AND CONTROL ACCURACY.

CONDUIT INSTALLATION SHALL FOLLOW INSTALLATION REQUIREMENTS LISTED ON ELECTRICAL PLANS AND SPECIFICATIONS. ALL FIRE RATED PENETRATIONS SHALL BE SEALED TO ORIGINAL FIRE RATED CONDITIONS PER APPLICABLE CODES. WIRING IN HAZARDOUS CLASSIFIED AREAS

PRCA20240398

EC TO LOCK OUT, TAG OUT BREAKERS FOR DEMOLITION OF SITE LIGHT POLES (BY OTHERS). COORDINATE BREAKERS WITH EXISTING CONDITIONS AND CIVIL DRAWINGS

BOTTOM FIXTURES IN THIS AREA TO BE 19'-0" A.F.F.

BOTTOM OF THIS ROW OF FIXTURES TO BE 40'-0" A.F.F.

BOTTOM OF THIS ROW OF FIXTURES TO BE 29'-0" A.F.F.

ALL EXISTING LIGHTING, ASSOCIATED CONTROLS AND ASSOCIATED WIRING / CONDUIT IN HATCHED AREA TO BE REMOVED BACK TO SOURCE

BOTTOM FIXTURES IN THIS AREA TO BE 18'-0" A.F.F.

BOTTOM FIXTURES IN THIS AREA TO BE 19'-0" A.F.F.

BOTTOM OF THIS FIXTURE TO BE 12'-0" A.F.F.

EINV - 1
EINV - 2
EINV - 3
EINV - 4
MH1 - 2
MH1 - 4
MH1 - 6
MH1 - 8
MH1 - 10
MH1 - 12
MH1 - 14

ELECTRICAL LIGHTING BUBBLE NOTES

BUBBLE #

1. TYPICAL TYPE "A", "AE", "A1", "A1E" FIXTURES SUSPENDED FROM JOISTS. REFERENCE PLANS FOR BOTTOM OF FIXTURE ELEVATIONS. PROVIDE ACCESSORIES FOR SUSPENDED INSTALLATION.
2. TYPICAL TYPE "B" FIXTURE SURFACE MOUNTED TO GIRT APPROXIMATELY 10'-0" ABOVE RISER ROOM FLOOR. ANGLE FIXTURE 45° TOWARDS FLOOR. PROVIDE ACCESSORIES FOR SURFACE MOUNTING.
3. U.N.O. TYPICAL TYPE "D", "DE" FIXTURES WALL MOUNTED WITH BOTTOM OF FIXTURE 20'-0" A.F.F. PROVIDE ACCESSORIES FOR WALL MOUNTING.
4. LIGHTING IN EACH AISLEWAY SHALL BE GROUP CONTROLLED INDEPENDENTLY OF LIGHTING IN ALL OTHER AISLEWAYS AND OPEN AREAS. LIGHTS SHALL BE GROUP PROGRAMMED FOR LIGHT LEVELS TO BE AUTOMATIC 100% UPON DETECTION OF OCCUPANCY, AUTOMATIC 50% AFTER 20 MIN OF NO OCCUPANCY DETECTION IN THAT OPEN AREA / AISELWAY AND THEN AUTOMATIC "OFF" AFTER 20 MIN OF NO OCCUPANCY DETECTION IN ROOM.
5. LIGHTING IN EACH OPEN AREA SHALL BE GROUP CONTROLLED INDEPENDENTLY OF LIGHTING IN ALL OTHER OPEN AREAS. LIGHTS SHALL BE GROUP PROGRAMMED FOR LIGHT LEVELS TO BE AUTOMATIC 100% UPON DETECTION OF OCCUPANCY, AUTOMATIC 50% AFTER 20 MIN OF NO OCCUPANCY DETECTION IN THAT OPEN AREA AND THEN AUTOMATIC "OFF" AFTER 20 MIN OF NO OCCUPANCY DETECTION IN ROOM.
6. LIGHTING IN EACH OPEN AREA SHALL BE GROUP CONTROLLED INDEPENDENTLY OF LIGHTING IN ALL OTHER OPEN AREAS. LIGHTS SHALL BE GROUP PROGRAMMED FOR LIGHT LEVELS TO BE AUTOMATIC 100% UPON DETECTION OF OCCUPANCY, AUTOMATIC 50% AFTER 20 MIN OF NO OCCUPANCY DETECTION IN THAT OPEN AREA AND THEN AUTOMATIC "OFF" AFTER 20 MIN OF NO OCCUPANCY DETECTION IN ROOM. SWITCHES SHALL BE FOR MANUAL OVERRIDE OF LIGHTS ONLY.
7. FOR SECURITY, EXTERIOR LIGHTING CONTROLS SHALL BE PROGRAMMED FOR LIGHTS AUTOMATIC "OFF" WHEN DAYLIGHT IS PRESENT AND SATISFIES LIGHTING NEEDS. EXTERIOR LIGHTS HAVE CAPABILITY TO BE AUTOMATICALLY DIMMED BY NOT LESS THAN 30% AFTER 15 MIN OF NO OCCUPANCY DETECTION - COORDINATE CONTROLS WITH OWNER.
8. PROVIDE ALL CIRCUIT, CONDUIT AND WIRING FROM UN-SWITCHED SIDE OF LOCAL LIGHTING CIRCUIT FOR ALL EXIT LIGHTS, EMERGENCY LIGHTS AND EMERGENCY BATTERY PACKS.
9. ALL EXIT LIGHTS SHOWN ABOVE DOORS SHALL BE BACK MOUNTED. ALL OTHER EXIT LIGHTS SHALL BE BACK, END OR TOP MOUNTED TO RACKING. COORDINATE FINAL LOCATION OF EVERY SIGN SO THAT IT DOES NOT INTERFERE WITH PROPER DOOR OPERATION, FORKLIFT TRAFFIC AND IS READILY VISIBLE WITH NO DECORATIONS, FURNISHINGS, EQUIPMENT, ETC. IMPAIRING VISIBILITY OF SIGN.
10. PROVIDE DOUBLE SIDED EXIT SIGN
11. CONDUIT AND WIRING SHOWN ON EXTERIOR OF BUILDING IS FOR CLARITY OF DRAWING ONLY. ALL EXTERIOR LIGHTING CONDUIT AND WIRING TO BE INSIDE OF BUILDING.

ELECTRICAL LIGHTING PLAN
SCALE: 3/32" = 1'-0"

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RICHARD MARC SMITH — 23001613 — REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON
28 JUN 2024

REV	DESCRIPTION	DATE	BY
	OWNER REVIEW	21 JUL 23	SRP
	30% PRICING SET	28 JUL 23	SRP
	90% DESIGN DOCUMENTS	25 JAN 24	SRP
A	CONSTRUCTION USE	06 MAR 24	SRP
	ISSUED FOR PERMIT	15 MAY 24	SRP
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PROJECT NORTH

ENGINEERS / ARCHITECTS
1942 NORTHWOOD DRIVE, SALISBURY, MARYLAND 21801-7834
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AWB ENGINEERS

CPFD

WHITING-TURNER

ELECTRICAL LIGHTING PLAN

FREEZER EXPANSION
PUYALLUP, WASHINGTON

SCALE	3/32"=1'-0"
DRAWN	SRP
PROJ.MGR.	MRS
JOB	221205
SHEET	E-101

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PRCA20240398

RELOCATED GENERATOR. REWIRE FROM SOURCE BACK TO GENERATOR.

REFERENCE E-401 FOR POWER DESIGN

PROVIDE 3/4" CONDUIT FROM FIRE CONTROL PANEL TO EACH EXTERIOR DOOR FOR SECURITY ROUGH-IN BY OTHERS. COORDINATE EXACT DOORS AND FIRE CONTROL PANEL LOCATION WITH SECURITY CONTRACTOR.

EXISTING UTILITY TRANSFORMER

EXISTING 2000 AMP MCB SWITCHBOARD MSB11
EXISTING FEEDERS = 8 SETS OF 4C500 WIRE AND 1C400 GROUND
MAXIMUM EXISTING LOAD (BASED FROM 12 MONTHS POWER COMPANY BILLS) = 186.12kW = 224A
PER NEC 220.87 1.25 = 280A
ADDED LOAD = 455A
EXISTING + ADDED = 735A

PROVIDE 600 AMP, 480 VOLT, 3 POLE BREAKER IN EXISTING MSB11. RUN .2 SETS OF 4C350 WIRE AND 1C1 GROUND IN .3" CONDUIT TO PANEL MH1. PROVIDE 400 AMP, 480 VOLT, 3POLE BREAKER IN EXISTING MSB11. RUN 4C500 WIRE AND 1C3 GROUND IN 3" CONDUIT TO PANEL BCH1. MATCH AIC RATING WITH EXISTING CONDITIONS.

EXISTING GENERATOR TO BE RELOCATED. ABANDON / REMOVE ALL EXISTING WIRING / CONDUIT BACK TO SOURCE.

BCH1 TO BE METERED. OPTION #1: EACH INDIVIDUAL BREAKER SHALL BE METERED IN BCH1. OPTION #2: NEW 400 AMP BREAKER IN MSB11 TO BE METERED. COORDINATE WITH OWNER.

DEDICATED CIRCUIT 7'-0" A.F.F. COORDINATE POWER REQUIREMENTS AND HOOKUP WITH OWNER.

INTERLOCK DAMPER OPERATION WITH EF1 OPERATION.

ALL ELECTRICAL EQUIPMENT IN THIS ROOM IS EXISTING AND TO REMAIN.

NEW WH-1 TO REPLACE EXISTING GWH-1 WATER HEATER (BY OTHERS). DISCONNECT EXISTING WATER HEATER AND RECONNECT NEW WATER HEATER

COORDINATE MOUNTING HEIGHT OF HEATER BOX (ANTENNAS) RECEPTACLES WITH EQUIPMENT. TYPICAL OF RECEPTACLES IN FREEZER

EXISTING UNIT HEATER TO REMAIN.

INTERLOCK EXISTING DAMPER OPERATION WITH EF1 OPERATION.

EXISTING REFRIGERATION EQUIPMENT TO BE REMOVED (BY OTHERS). REMOVE ALL ASSOCIATED EQUIPMENT AND ASSOCIATED WIRING / CONDUIT BACK TO SOURCE. (600 AMP OF EXISTING BREAKERS BEING REMOVED.)

UTILITY XFMR

TO FIRE PUMP BUILDING. REFERENCE SITE PLANS FOR BUILDING LOCATION.

DEDICATED CIRCUIT 7'-0" A.F.F. COORDINATE POWER REQUIREMENTS AND HOOKUP WITH OWNER.

COORDINATE POWER REQUIREMENTS AND HOOKUP FOR SWITCH WITH OWNER.

COORDINATE DISCONNECT WITH JIB CRANE INSTALLATION.

COORDINATE POWER REQUIREMENTS AND HOOKUP FOR SWITCH WITH OWNER.

REFERENCE E-401 FOR POWER DESIGN

ELECTRICAL POWER BUBBLE NOTES

BUBBLE #

1. RECEPTACLE FOR HACR (HEATING, AIR CONDITIONING AND REFRIGERATION) SERVICE. RECEPTACLE SHALL BE WITHIN 25'-0" OF HACR EQUIPMENT. COORDINATE FINAL RECEPTACLE LOCATION WITH HACR EQUIPMENT.
2. DOOR CONTROL PANEL WITH MOTOR, TIME DELAY AND PHOTO-EYE SENSORS, PULL STRING (PROVIDED BY OTHERS). INSTALL CONDUIT AND WIRING, COORDINATE/CONFIRM LOCATION AND ELECTRICAL REQUIREMENTS/HOOK-UP WITH EQUIPMENT (INCLUDING LOW VOLTAGE).
3. TYPICAL DOCK DOOR AND DOCK LEVELER. REFERENCE 1 / E-501 FOR DOCK LEVELER DETAIL.
4. PROVIDE CURRENT SWITCH, LOW VOLTAGE CONTROL TRANSFORMER, WIRING, ETC. FOR COMPLIANT INTERLOCKING SYSTEM. COORDINATE WITH MECHANICAL SEQUENCE OF OPERATION. TYPICAL OF ALL MECHANICAL EQUIPMENT BEING INTERLOCKED.
5. BELOW GRADE CONDUIT ROUTE TO EACH EQUIPMENT. COORDINATE EXACT LOCATION WITH ALL OTHER SITE WORK. REFERENCE 2 / E-501
6. TYPICAL FLOOR HEATING CABLE WITH CONTROL. SELF REGULATING HEATING CABLE (54 WATTS PER FOOT USED AS BASIS OF DESIGN, BUT FINAL WATTAGE SHALL BE PER MANUFACTURERS RECOMMENDATIONS BASED ON DESIGN REQUIREMENTS) WITH SLAB SENSING THERMOSTAT, CONNECTION KIT AND ACCESSORIES WITH CONTROLLER, RAYCHEM OR EQUAL. VOLTAGE 277 VOLT. COORDINATE WITH MANUFACTURER/OWNER TO PROVIDE FLOOR HEATING SYSTEM TO PREVENT FORMATION OF ICE ON FLOOR SURFACE. MANUFACTURER TO PROVIDE SHOP DRAWINGS FOR APPROVAL. REFERENCE 4 / E-501

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ELECTRICAL POWER PLAN

FREEZER EXPANSION

PUYALLUP, WASHINGTON

SCALE	3/32"=1'-0"
DRAWN	SRP
PROJ.MGR.	MRS
JOB	221205
SHEET	E-102

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RICHARD MARC SWINTON — STATE OF WASHINGTON — 23001613 — REGISTERED PROFESSIONAL ENGINEER
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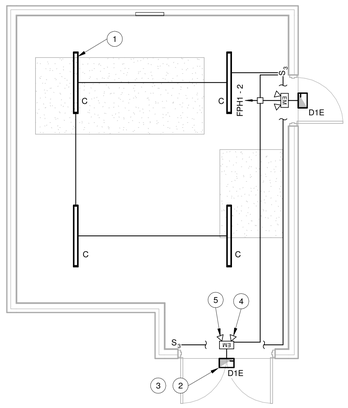
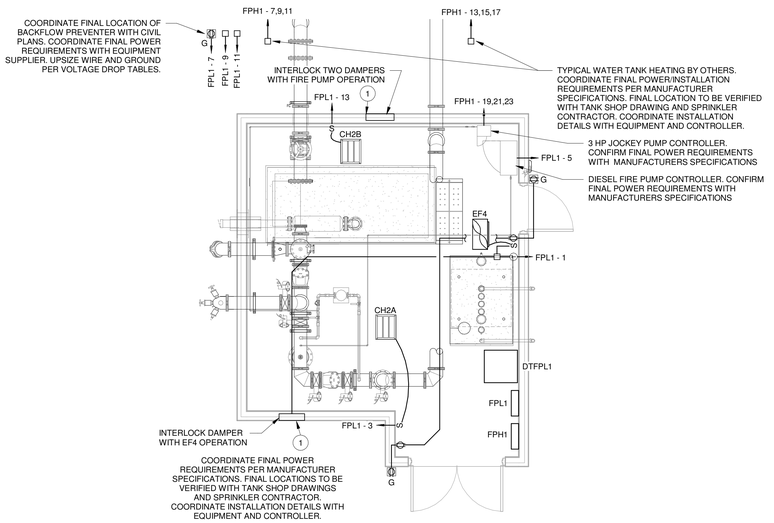


FIRE PUMP BLDG LIGHTING PLAN
SCALE: 1/4" = 1'-0"

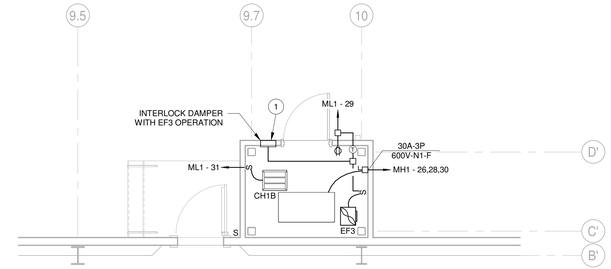
ELECTRICAL LIGHTING BUBBLE NOTES

BUBBLE #

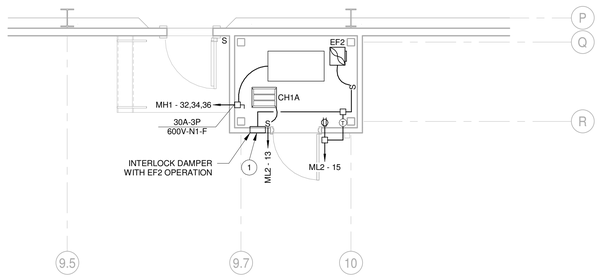
1. TYPICAL TYPE "C" FIXTURE SURFACE MOUNTED TO BOTTOM OF CEILING. PROVIDE ACCESSORIES FOR SURFACE MOUNTING.
2. TYPICAL TYPE "D", "DE" FIXTURES WALL MOUNTED WITH BOTTOM OF FIXTURE 9'-0" A.F.F. PROVIDE ACCESSORIES FOR WALL MOUNTING.
3. FOR SECURITY, EXTERIOR LIGHTING CONTROLS SHALL BE PROGRAMMED FOR LIGHTS AUTOMATIC "OFF" WHEN DAYLIGHT IS PRESENT AND SATISFIES LIGHTING NEEDS. EXTERIOR LIGHTS HAVE CAPABILITY TO BE AUTOMATICALLY DIMMED BY NOT LESS THAN 30% AFTER 15 MIN OF NO OCCUPANCY DETECTION - COORDINATE CONTROLS WITH OWNER.
4. PROVIDE ALL CIRCUIT, CONDUIT AND WIRING FROM UN-SWITCHED SIDE OF LOCAL LIGHTING CIRCUIT FOR ALL EXIT LIGHTS, EMERGENCY LIGHTS AND EMERGENCY BATTERY PACKS.
5. ALL EMERGENCY LIGHTS SHOWN ABOVE DOORS SHALL BE BACK MOUNTED.



FIRE PUMP BLDG POWER PLAN
SCALE: 1/4" = 1'-0"



NORTH RISER ROOM POWER PLAN
SCALE: 1/4" = 1'-0"



SOUTH RISER ROOM POWER PLAN
SCALE: 1/4" = 1'-0"

ELECTRICAL POWER BUBBLE NOTES

BUBBLE #

1. PROVIDE CURRENT SWITCH, LOW VOLTAGE CONTROL TRANSFORMER, WIRING, ETC. FOR COMPLIANT INTERLOCKING SYSTEM. COORDINATE WITH MECHANICAL SEQUENCE OF OPERATION. TYPICAL OF ALL MECHANICAL EQUIPMENT BEING INTERLOCKED.

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STATE OF WASHINGTON
23001613
REGISTERED
PROFESSIONAL ENGINEER
28 JUN 2024

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AWB ENGINEERS

CPFD

WHITING-TURNER

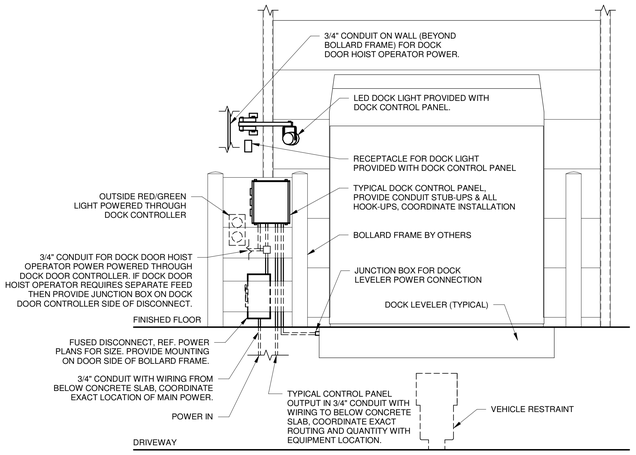
ENLARGED ELECTRICAL PLANS

FREEZER EXPANSION
PUYALLUP, WASHINGTON

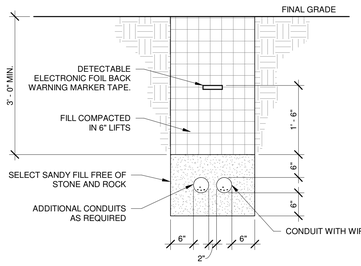
SCALE	1/4"=1'-0"
DRAWN	SRP
PROJ.MGR.	MRS
JOB	221205
SHEET	E-401

6/28/2024 7:00:32 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt

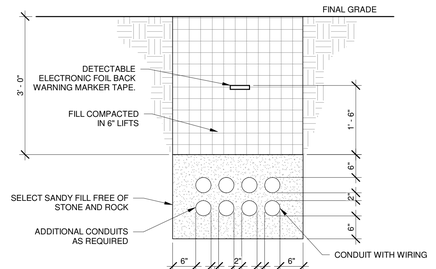
PRCA20240398



1 LEVELER CONTROL PANEL ELEVATION
E-501 SCALE: N.T.S.

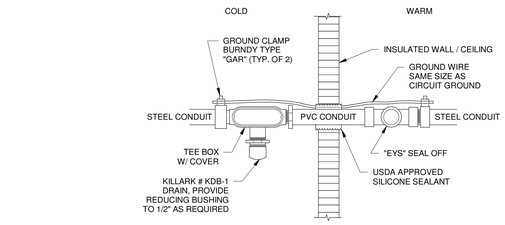


NOTE: MAINTAIN 2" BETWEEN EACH ADDITIONAL CONDUIT WITH 6" OF SANDY FILL SURROUNDING INSTALLATION.

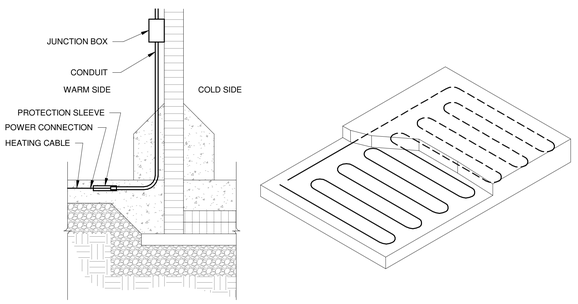


NOTE: MAINTAIN 2" BETWEEN EACH ADDITIONAL CONDUIT WITH 6" OF SANDY FILL SURROUNDING INSTALLATION.

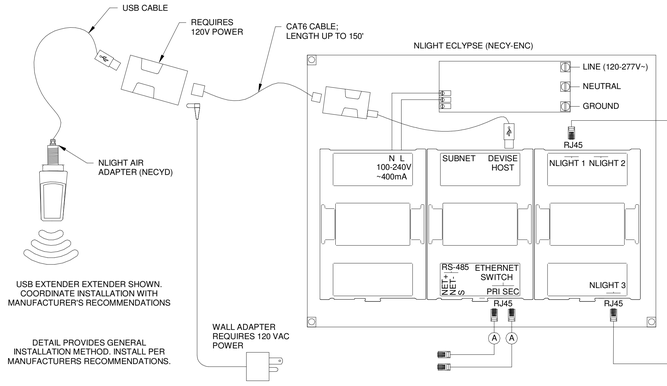
2 UNDERGROUND CONDUIT
E-501 SCALE: N.T.S.



3 CONDUIT PENETRATION OF COLD TO WARM DETAIL
E-501 SCALE: N.T.S.



4 FLOOR HEATING CABLE DETAIL
E-501 SCALE: N.T.S.



NLIGHT ECLYPSE (NECY)

- THE NECY HAS THREE NLIGHT PORTS; PORT 1 IS TYPICALLY USED TO HOST THE NLIGHT NETWORK; PORT 2 IS TYPICALLY LEFT SPARE, AND PORT 3 IS TYPICALLY RESERVED FOR AN NGWY2 GFX TOUCHSCREEN. TWO ETHERNET PORTS ARE AVAILABLE WITH A BUILT-IN ETHERNET SWITCH. THE ETHERNET PORTS MAY BE USED TO CONNECT TO A BUILDING LAN, BUILDING MANAGEMENT SYSTEM, OR A PERSONAL COMPUTER.

NLIGHT BRIDGE (NBRG 8)

- THE NBRG 8 BRIDGE FEATURES 8 NLIGHT PORTS. ONE PORT IS RESERVED FOR UPSTREAM COMMUNICATION, AND ANY NUMBER OF THE REMAINING 7 CAN BE USED FOR DOWNSTREAM COMMUNICATION. ALLOWANCE OF AT LEAST ONE SPARE PORT IS TYPICAL.

WIRE LEGEND	
A	CAT 5-E (CLASS E)
C	LOW VOLTAGE

DETAIL PROVIDES GENERAL INSTALLATION METHOD. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

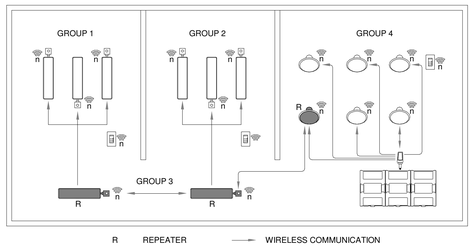
5 TYPICAL nLIGHT SYSTEM CONTROLLER WIRING DIAGRAM
E-501 SCALE: N.T.S.

NLIGHT AIR SYSTEM NOTES:

1. FOR MAXIMUM RANGE, THE NLIGHT AIR ADAPTER, WHICH IS USED FOR NETWORK COMMUNICATION, SHOULD BE MOUNTED IN AN OPEN INDOOR AREA (SUCH AS A CORRIDOR) AND SHOULD NOT BE LOCATED IN AN ENCLOSED SPACE (SUCH AS AN ELECTRICAL CLOSET).
2. A MAXIMUM 1,000-FOOT, LINE-OF-SIGHT DISTANCE SHOULD BE USED FOR OUTDOOR APPLICATIONS WHERE LINE OF SIGHT IS AVAILABLE BETWEEN THE NLIGHT AIR ADAPTER AND DEVICES RECEIVING AN INITIAL BROADCAST.
3. AN NLIGHT ECLYPSE WITH CONNECTED NLIGHT AIR ADAPTER CAN SUPPORT 750 DEVICES TOTAL. STANDALONE NLIGHT AIR GROUPS CAN CONTAIN UP TO 128 NLIGHT AIR DEVICES, AND ALL DEVICES SHOULD BE LOCATED WITHIN A MAXIMUM OF 1,000 FEET CLEAR LINE-OF-SIGHT OF EACH DEVICE WITHIN THE GROUP.
4. NLIGHT AIR DEVICES MUST BE PROGRAMMED THROUGH THE CLAIRITY PRO MOBILE APPLICATION BEFORE THEY CAN BE CONTROLLED OR NETWORKED TO AN NLIGHT ECLYPSE WITH CORRESPONDING NLIGHT AIR ADAPTER.

NLIGHT AIR NETWORKED SYSTEM:

EACH NLIGHT AIR GROUP IS BOUND TO THE NLIGHT ECLYPSE, PROVIDING SYSTEM-WIDE COMMUNICATION. MESSAGES ARE SENT TO AND FROM THE ECLYPSE WITH ALL DEVICES IN RANGE. FOR DEVICES NOT IN DIRECT RANGE, AUTONOMOUS BRIDGING TECHNOLOGY CREATES REPEATERS TO CARRY MESSAGES TO THOSE DEVICES OUT OF RANGE. STANDALONE COMMUNICATION WITH A GROUP MONITOR STILL HAPPENS INDEPENDENT OF SYSTEM-WIDE COMMUNICATION.



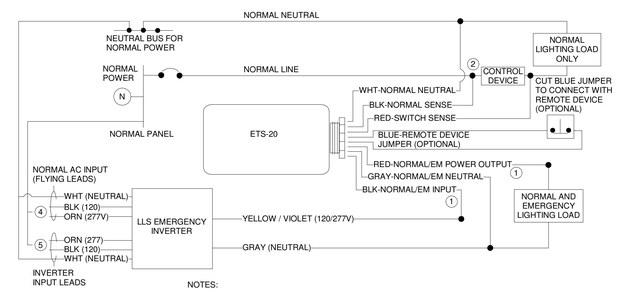
6 TYPICAL nLIGHT AIR NETWORK SYSTEM
E-501 SCALE: N.T.S.

EMERGENCY SEQUENCE OF OPERATION

1. NORMAL CONDITION:
   A. DEVICES THAT ARE CONNECTED TO NORMAL POWER AND HAVE BEEN SELECTED AS NPS DEVICES PROVIDE NPS BROADCASTS.
   B. CONTROL DEVICE CAN DIM AND TURN OFF THE LOAD AS NORMAL IN RESPONSE TO AUTOMATIC AND MANUAL CONTROL.
2. EMERGENCY CONDITION:
   A. WHETHER DUE TO FAILURE OF UTILITY POWER OR OPENING OF NORMAL HOT CIRCUIT BREAKER, THE NPS DEVICES LOSE POWER AND NO LONGER SEND NPS BROADCASTS.
   B. BACKUP POWER SOURCE ACTIVATES; TRANSFER SWITCH MOVES THE EMERGENCY CIRCUIT POWERING THE EM CONTROL DEVICE ONTO THE BACKUP SOURCE, AND THE EM CONTROL DEVICE REGAINS POWER.
   C. THE EM CONTROL DEVICE INITIALIZES AT FULL OUTPUT BECAUSE, UPON BOOT UP, IT DOES NOT HAVE RECORD OF A NORMAL POWER SENSE (NPS) BROADCASTHAVING BEEN RECEIVED.
   D. EM CONTROL DEVICE IGNORES ALL AUTOMATIC AND MANUAL COMMANDS AND CONTROLS THE DRIVER OR BALLAST TO ITS FULL OUTPUT. FOR LINE VOLTAGE DEVICES,THE RELAY IS CLOSED AND 0-10V DIMMING IS SET AT THE MAXIMUM TRIM LEVEL. FOR LOW VOLTAGE DEVICES, THE DRIVER IS CONTROLLED TO THE MAXIMUM TRIM LEVEL.
   E. FOR DEVICES THAT DID NOT LOSE POWER, EM CONTROL DEVICES WILL GO TO FULL OUTPUT AFTER NOT RECEIVING AN NPS BROADCAST FROM ONE OR MORE ASSOCIATED NPS DEVICES FOR 8 SECONDS.
3. RESTORATION OF NORMAL POWER:
   A. UTILITY POWER RECOVERS OR A CIRCUITBREAKER POWERING NPS DEVICES IS CLOSED.
   B. NPS DEVICES RECEIVE NORMAL POWER AND SEND A BROADCAST IDENTIFYING THAT NORMAL POWER IS PRESENT WITHIN 250MS OF COMPLETING THEIR BOOTUP.
   C. ONCE EM DEVICES RECEIVE AN NPS BROADCAST FROM ALL ASSOCIATED NPS DEVICES, THEY WILL EXIT EMERGENCY OPERATION AND CAN ONCE AGAIN BECONTROLLED.

NOTE: NORMAL POWER SENSING (NPS) CONTROL DEVICES PROVIDE NORMAL POWER SENSING BROADCASTS TO EM DEVICES IN THE SAME GROUP, ALLOWING EM DEVICES TO KNOW WHEN NORMAL POWER IS AVAILABLE

7 EMERGENCY GENERATOR / INVERTER LIGHTING DETAIL
E-501 SCALE: N.T.S.

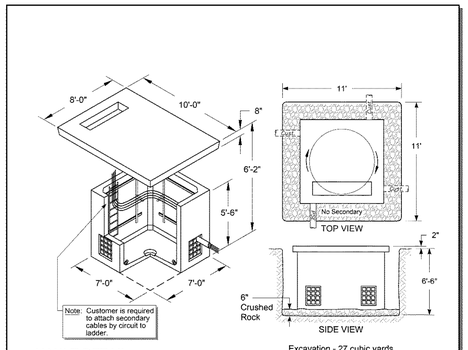


NOTES:

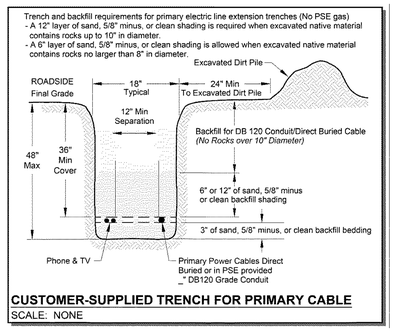
1. THE RED AND BLACK WIRES OF THE ETS-20 AND ETS-20-DR ARE DISTINGUISHED BY WIRE GAUGE. USE THE 12 AWG WIRES FOR CONNECTION TO THE EMERGENCY CIRCUIT.
2. THE BLACK (NORMAL POWER SENSE) LEAD SHOULD BE CONNECTED TO THE LINE SIDE OF THE MASTER SWITCH CONTROL THAT SERVES THE SAME AREA AS THE EMERGENCY LIGHTING, ENSURING THAT THE EMERGENCY LIGHTING IN THE CONTROLLED AREA TURNS ON DURING A LOCALIZED POWER FAILURE.
3. CAP UNUSED LEAD.
4. FLYING LEADS ARE FOR THE NORMAL AC INPUT (SWITCHED OR UNSWITCHED) - SELECT PROPER VOLTAGE LEAD AND CAP UNUSED LEAD.
5. AC INPUT FOR THE INVERTER - MUST BE UNSWITCHED. SELECT PROPER VOLTAGE LEAD AND CAP UNUSED LEAD.

DETAIL PROVIDES GENERAL INSTALLATION METHOD. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

8 EMERGENCY INVERTER WITH EMERGENCY CONTROL BYPASS
E-501 SCALE: N.T.S.



VAULT DETAIL
SCALE: NONE



CUSTOMER-SUPPLIED TRENCH FOR PRIMARY CABLE
SCALE: NONE

9 PUGET SOUND ENERGY ELECTRICAL DETAILS
E-501 SCALE: N.T.S.

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

RICHARD MARC SWINGLE — STATE OF WASHINGTON — 23001613 — REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

REV	DESCRIPTION	BY	DATE
	OWNER REVIEW	SRP	21 JUL 23
	30% PROGRESS SET	SRP	28 JUL 23
	90% CONSTRUCTION DOCUMENTS	SRP	25 JAN 24
A	CONSTRUCTION USE	SRP	06 MAR 24
	ISSUED FOR PERMIT	SRP	15 MAY 24
B	ISSUED FOR PERMIT	SRP	28 JUN 24

ENGINEERS / ARCHITECTS
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PH: (410) 742-7299 FAX: (410) 742-0273

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AWB ENGINEERS

WHITING-TURNER

ELECTRICAL DETAILS

FREEZER EXPANSION
PUYALLUP, WASHINGTON

SCALE	NONE
DRAWN	SRP
PROJ.MGR.	MRS
JOB	221205
SHEET	E-501

6/28/2024 6:57:50 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt

PRCA20240398

ELECTRICAL LIGHTING LEGEND

SYMBOL	DESCRIPTION
S	SINGLE POLE SPECIFICATION GRADE 20A SWITCH WITH COVER PLATE. FLUSH MOUNTED IN ALL FINISHED AREAS, SURFACE MOUNTED IN ALL UNFINISHED AREAS IN A 4" SQUARE BOX WITH RAISED COVER.
S_{WI}	WIRELESS SENSOR INTERFACE WITH LED INDICATORS AND COVER PLATE, NLIGHT #PRODLA-MVOLT-_-G2. FOR WIRELESS AUTO AND MANUAL LIGHT OPERATION WITH SENSORS AND RELAYS. SINGLE (CONTROL GROUP) CHANNEL COMMUNICATION. 120-277 VAC INPUT, 32°F AND 140°F, UP TO 1,000 FT WIRELESS RANGE IN FREE SPACE AND 150 FT THROUGH TYPICAL CONSTRUCTION. FLUSH MOUNTED IN ALL FINISHED AREAS; SURFACE MOUNTED IN ALL UNFINISHED AREAS IN A 4" SQUARE BOX WITH RAISED COVER. COORDINATE COLOR WITH OWNER.

ELECTRICAL LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION
A, AE	192 WATT LED HIGH BAY FIXTURE - LITHONIA #XIB-L48-30000LM-ATND-MVOLT-GZ10-40K-80CRI-NLTAIR2-RMSOD45A-DWHXD, IP65 AND NSF SPLASH ZONE 2 LOCATION RATED 48" LONG HIGH BAY FIXTURE FOR OPERATION BETWEEN -40°F AND 131°F WITH 30,000 NOM. LUMEN OUTPUT, ACRYLIC FROSTED MEDIUM DISTRIBUTION LENS, 120-277 VAC LED DRIVER WITH 0-10 VOLT DIMMING (DOWN TO 10%), 4000K CCT, 80 CRI, NLIGHT (WIRELESS) GEN 2 OCCUPANCY AND DAYLIGHT SENSOR (45A - HIGH MOUNT AISLEWAY SENSOR PROVIDES 1.5*MOUNTING HEIGHT BY 30 FEET COVERAGE WHEN MOUNTED 10 TO 30 FEET FOR PEDESTRIAN WALKING AND 10 TO 40 FEET FOR FORKLIFT TRAFFIC) AND SUPER DURABLE WHITE FINISH. "AE" IS SAME FIXTURE WITH #NLTAIR2-RMSOD45AEM, NLIGHT (WIRELESS) GEN 2 OCCUPANCY AND DAYLIGHT SENSOR FOR EMERGENCY OPERATION. OR APPROVED EQUAL.
A1, A1E	153 WATT LED HIGH BAY FIXTURE - LITHONIA #XIB-L24-24000LM-AFMD-MVOLT-GZ10-40K-80CRI-NLTAIR2-RMSOD45-DWHXD, IP65 AND NSF SPLASH ZONE 2 LOCATION RATED 24" LONG HIGH BAY FIXTURE FOR OPERATION BETWEEN -40°F AND 131°F WITH 36,000 NOM. LUMEN OUTPUT, ACRYLIC FROSTED MEDIUM DISTRIBUTION LENS, 120-277 VAC LED DRIVER WITH 0-10 VOLT DIMMING (DOWN TO 10%), 4000K CCT, 80 CRI, NLIGHT (WIRELESS) GEN 2 OCCUPANCY AND DAYLIGHT SENSOR (45 - HIGH MOUNT 360° SENSOR PROVIDES 40 FEET RADIAL COVERAGE WHEN MOUNTED 10 TO 30 FEET FOR PEDESTRIAN WALKING AND 10 TO 40 FEET FOR FORKLIFT TRAFFIC) AND SUPER DURABLE WHITE FINISH. "A1E" IS SAME FIXTURE WITH #NLTAIR2-RMSOD45EM, NLIGHT (WIRELESS) GEN 2 OCCUPANCY AND DAYLIGHT SENSOR FOR EMERGENCY OPERATION. OR APPROVED EQUAL.
B	51 WATT LED ENCLOSED AND GASKETED FIXTURE - LITHONIA #FEM-L48-8000LM-LPAFL-MD-MVOLT-GZ10-40K-80CRI-FEMANGBKT, IP65 AND NSF SPLASH ZONE 2 LOCATION RATED 48" LONG FIXTURE FOR OPERATION BETWEEN -22°F AND 95°F WITH 8,000 NOM. LUMEN OUTPUT, LOW PROFILE FROSTED ACRYLIC DIFFUSER, MEDIUM DISTRIBUTION, 120-277 VAC LED DRIVER WITH 0-10 VOLT DIMMING (DOWN TO 10%), 4000K CCT, 80 CRI AND ANGLED BRACKET. OR APPROVED EQUAL.
C	47 WATT LED STRIPLIGHT - LITHONIA #CLX-L48-7000LM-SEF-FDL-MVOLT-GZ10-40K-80CRI-WH, DAMP LOCATION RATED 48" STRIPLIGHT FOR OPERATION BETWEEN -4°F AND 104°F WITH 7,000 NOM. LUMEN OUTPUT, STANDARD EFFICIENCY, LESS LOUVER, FLAT DIFFUSE LENS, GENERAL DISTRIBUTION, 120-277 VAC LED DRIVER WITH 0-10 VOLT DIMMING (DOWN TO 10%), 4000K CCT, 80 CRI AND WHITE FINISH. OR APPROVED EQUAL.
D, DE	88 WATT LED WALL PACK - LITHONIA #WDGE3-LED-P4-40K-80CRI-R4-MVOLT-SRM-NLTAIR2-PIRH-DDBXD, IP65 RATED WALL PACK FOR OPERATION DOWN TO -40°F WITH PERFORMANCE PACKAGE 4 (12,500 NOM. LUMEN OUTPUT), 4000K CCT, 80 CRI, TYPE 4 DISTRIBUTION, 120-277 VAC LED DRIVER WITH 0-10 VOLT DIMMING, SURFACE MOUNTING BRACKET, NLIGHTAIR WIRELESS ENABLED BI-LEVEL MOTION / AMBIENT SENSOR FOR 15-30' MOUNTING HEIGHTS. "DE" IS SAME FIXTURE WITH #E20WC, 18 WATT EMERGENCY BATTERY PACK FOR OPERATION DOWN TO -4°. FOR APPROVED EQUAL
D1, D1E	23 WATT LED WALL PACK - LITHONIA #WDGE2-LED-P3SW-40K-80CRI-VW-MVOLT-SRM-NLTAIR2-PIR-DDBXD, IP65 RATED WALL PACK FOR OPERATION DOWN TO -40°F WITH PERFORMANCE PACKAGE 3 WITH SMALL WINDOW FOR SENSORS (3,000 NOM. LUMEN OUTPUT), 4000K CCT, 80 CRI, VISUAL COMFORT WIDE DISTRIBUTION, 120-277 VAC LED DRIVER WITH 0-10 VOLT DIMMING, SURFACE MOUNTING BRACKET, NLIGHTAIR WIRELESS ENABLED BI-LEVEL MOTION / AMBIENT SENSOR FOR 8-15' MOUNTING HEIGHTS. "D1E" IS SAME FIXTURE WITH #E20WC, 18 WATT EMERGENCY BATTERY PACK FOR OPERATION DOWN TO -4°. FOR APPROVED EQUAL
EM	LED EMERGENCY LIGHT - LITHONIA #ELML6L-UVOLT-LTP-SDRT-HO, DAMP LOCATION RATED EMERGENCY LIGHT FOR OPERATION BETWEEN 50°F AND 104°F WITH STANDARD MOUNT (WALL OR CEILING), TWO 5.3W LED LAMPS (550 LUMENS PER HEAD), LITHIUM IRON PHOSPHATE HIGH OUTPUT BATTERY FOR 2 HOUR RUN TIME AND SELF DIAGNOSTICS / REMOTE TEST. INPUT VOLTAGE TO BE 120-347 VAC. OR APPROVED EQUAL.
EX	WASHDOWN/COLD LOCATION LED EXIT LIGHT - SURE-LITES #UX6-1-WH, NFPA 101, NSF RATED AND NEMA 4X RATED EXIT SIGN FOR OPERATION BETWEEN -40°F AND 122°F WITH UNIVERSAL MOUNT (TOP, END OR BACK), WHITE HOUSING. INPUT VOLTAGE 120/240/277 VAC. U.N.O. FIXTURE TO BE PROVIDED WITH SINGLE FACE. OR APPROVED EQUAL.

LIGHTING COMPLIANCE SUMMARY

2018 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1 — Administered by: ©2024 NEEA, All rights reserved

Project & Applicant Information	Project Title	Coastal Pacific Food Distributors - 2018 WSEC	For Building Department Use:
	Project Address	320 Valley Ave. NW Puyallup, WA 98371	Date: May 15, 2024
	Applicant Name	Layne Bysom	
	Applicant Phone	410-742-7299	
	Applicant Email	lbysom@awbengineers.com	

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

General Occupancy	All Commercial		General Building Use Type		Warehouse, Refrigerated	Building Cond. Floor Area	63,506
General Project Types	Building Addition	New Building or Addition Lighting Scope	Interior Lighting Exterior Lighting	Alteration Lighting Scope		Project Cond. Floor Area	43,633
						Floors Above Grade	1
						Compliance Method	General Prescriptive
Lighting Project Description	Construction of a 43,633sf refrigerated warehouse cooler and freezer addition to an existing 19,873sf refrigerated warehouse building. With interior and exterior lighting.						

Lighting Compliance Scope and Method	Project Type	Interior / Exterior (Interior includes both interior & parking)	Luminaire Replacement Scope	Compliance Method	LPA Calculation Adjustment	Compliance Verification
	Building Addition	Interior Lighting		Space by space	Reduced lighting power density option - 10%	COMPLIES
	Building Addition	Exterior Lighting			Not applicable to exterior	COMPLIES

Project Title	Coastal Pacific Food Distributors - 2018 WSEC		Date	May 15, 2024
Lighting Power Calculation	BUILDING ADDITION - INTERIOR LIGHTING		Compliance Verification	COMPLIES
Compliance Method	Space by space	LPA Calculation Adjustment		LPA x 0.9

Interior Lighting Power Allowance - Space by Space

General Space Type	Specific Space Type	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 0.9)	Total Proposed Watts (LPD = Display LPD)	Compliance Status
Electrical/mechanical		356	0.43	153		
Electrical/mechanical		48	0.43	21		
Electrical/mechanical		48	0.43	21		
Electrical/mechanical		725	0.43	312		
Loading dock		3,054	0.88	2,688		
Loading dock		3,073	0.88	2,704		
Manufacturing facility	Equipment room	729	0.76	554		
Manufacturing facility	Equipment room	350	0.76	266		
Warehouse/storage area	Medium to bulky palletized items	15,721	0.33	5,188		
Warehouse/storage area	Medium to bulky palletized items	11,238	0.33	3,709		
Warehouse/storage area	Medium to bulky palletized items	23,590	0.33	7,785		
			Proposed Total LPD		20,435	
	Totals		Calculation Adjustment Applied - LPA x 0.9	21,059	20,435	COMPLIES

Proposed Lighting Power Density

Fixture Type	Fixture ID	Quantity of Fixtures (#F)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures						
Suspended	A1	25	153			3,825
Suspended	A	85	192			16,320
Other fixture type	C	4	47			188
Other fixture type	H	2	51			102
					Proposed Total LPD	20,435

Project Title	Coastal Pacific Food Distributors - 2018 WSEC	Date	May 15, 2024
Proposed Fixtures Details	BUILDING ADDITION - INTERIOR LIGHTING		

Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type	New or Existing-to-Remain
Individual Fixtures				
Suspended	A1	Existing Battery Charging, Existing Dry Storage, Existing Cold Dock, Cold Dock, 104-Freezer, 105 - B	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Suspended	A	Existing Freezer, 102 - Freezer, 104 - Freezer	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Other fixture type	C	130 - Fire Pump	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Other fixture type	H	100, First Riser Room, 106 - Fire Riser Room	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			

Project Title	Coastal Pacific Food Distributors - 2018 WSEC		Date	May 15, 2024
Lighting Power Calculation	BUILDING ADDITION - EXTERIOR LIGHTING		Compliance Verification	COMPLIES
Exterior Lighting Zone	ZONE 3	Base Site Allowance		500

Exterior Tradable Lighting Power Allowance

Exterior Surface	Surface Sub-Type	Surface Area (SF)	LPA (Watts/SF)	Linear Feet (LF)	LPA (Watts/LF)	Total Watts Allowed (LPA x SF) or (LPA x LF)	Total Proposed Watts	Compliance Status
Building entrances and exits	Loading dock	9,213	0.35			3,225		
Building entrances and exits	Pedestrian entrances & exits			27	21	567		
					Base Site Allowance	500		
					Totals	4,292	1,630	COMPLIES

Proposed Tradable Lighting Power Density

Fixture Type	Fixture ID	Exterior Surface Type	Quantity of Fixtures (#F)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures							
Wall-mounted	D1	Building entrances and exits - Pedestrian entrances & exits	2	23			46
Wall-mounted	D	Building entrances and exits - Pedestrian entrances & exits	14	88			1,232
Wall-mounted	D	Building entrances and exits - Loading dock	4	88			352
						Proposed Total LPD	1,630

ELECTRICAL POWER LEGEND

SYMBOL	DESCRIPTION
	SIMPLEX RECEPTACLE WITH COVER PLATE, FLUSH MOUNTED IN ALL FINISHED AREAS, SURFACE MOUNTED IN ALL UNFINISHED AREAS IN A 4" SQUARE BOX WITH RAISED COVER. PROVIDE NEMA 3R ENCLOSURE FOR DAMP/WET LOCATIONS AND EXTRA DUTY NEMA 4X ENCLOSURE IN WASHDOWN LOCATIONS. RECEPTACLE TO BE SPECIFICATION GRADE NEMA 5-20 UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE WITH COVER PLATE, FLUSH MOUNTED IN ALL FINISHED AREAS, SURFACE MOUNTED IN ALL UNFINISHED AREAS IN A 4" SQUARE BOX WITH RAISED COVER. PROVIDE NEMA 3R ENCLOSURE FOR DAMP/WET LOCATIONS AND EXTRA DUTY NEMA 4X ENCLOSURE IN WASHDOWN LOCATIONS. RECEPTACLE TO BE SPECIFICATION GRADE NEMA 5-20 UNLESS NOTED OTHERWISE.
	QUADPLEX RECEPTACLE WITH COVER PLATE, FLUSH MOUNTED IN ALL FINISHED AREAS, SURFACE MOUNTED IN ALL UNFINISHED AREAS IN A 4" SQUARE BOX WITH RAISED COVER. PROVIDE NEMA 3R ENCLOSURE FOR DAMP/WET LOCATIONS AND EXTRA DUTY NEMA 4X ENCLOSURE IN WASHDOWN LOCATIONS. RECEPTACLE TO BE SPECIFICATION GRADE NEMA 5-20 UNLESS NOTED OTHERWISE.
	SIMPLEX RECEPTACLE WITH COVER PLATE AND EXTRA-DUTY IN-USE COVER. PROVIDE NEMA 3R IN-USE COVER FOR DAMP/WET LOCATIONS AND EXTRA DUTY NEMA 4X IN-USE COVER IN WASHDOWN LOCATIONS. RECEPTACLE TO BE SPECIFICATION GRADE NEMA 5-20 UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE WITH COVER PLATE AND EXTRA-DUTY IN-USE COVER. PROVIDE NEMA 3R IN-USE COVER FOR DAMP/WET LOCATIONS AND EXTRA DUTY NEMA 4X IN-USE COVER IN WASHDOWN LOCATIONS. RECEPTACLE TO BE SPECIFICATION GRADE NEMA 5-20 UNLESS NOTED OTHERWISE.
	QUADPLEX RECEPTACLE WITH COVER PLATE AND EXTRA-DUTY IN-USE COVER. PROVIDE NEMA 3R IN-USE COVER FOR DAMP/WET LOCATIONS AND EXTRA DUTY NEMA 4X IN-USE COVER IN WASHDOWN LOCATIONS. RECEPTACLE TO BE SPECIFICATION GRADE NEMA 5-20 UNLESS NOTED OTHERWISE
G	RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER "GFCI" PROTECTION. RECEPTACLE SHALL BE LISTED WEATHER RESISTANT TYPE IF INSTALLED IN DAMP, WET OR WASHDOWN LOCATIONS.
L16-50	480 VOLT, 3 PHASE, 50 AMP, 3 POLE, 4 WIRE SPECIFICATION GRADE NEMA L16-50 LOCKING RECEPTACLE
#"	INDICATES ELEVATION TO BOTTOM OF RECEPTACLE AND/OR DATA/COMMUNICATION/CATV
	CONDUIT WITH THHN/THWN-2 WIRES UNLESS NOTED OTHERWISE, NUMBER OF CONDUCTORS AS NEEDED. CONDUIT TO BE SIZED AS PER NEC, WITH MINIMUM SIZE TO BE 3/4" UNLESS SMALLER SIZE IS INDICATED ON THE DRAWINGS.
	JUNCTION BOX SIZE AS REQUIRED FOR CODE COMPLIANCE TO BE WEATHER-PROOF IN ALL AREAS WHERE EXPOSED TO WATER AND MOISTURE.
T	FAN THERMOSTAT - DAYTON #1UHH2 ADJUSTABLE SET POINT, COOROSION RESISTANT STEEL HOUSING, LINE VOLTAGE RATED 120 VOLT 16 FLA, WITH SPDT SNAP SWITCH AND CONTROL RANGE OF 30 TO 110°F. OR APPROVED EQUAL.
D	7-DAY PROGRAMMABLE TIMER WITH MANUAL OVERRIDE, INTERMATIC #ET1705C OR APPROVED EQUAL.
	DISCONNECT SWITCH, SIZE AND ENCLOSURE TYPE AS INDICATED TO PROTECT DEVICE CONNECTED. FUSES TO BE PROVIDED WERE INDICATED.
	COMBINATION MOTOR STARTER AND DISCONNECT, SIZE AND ENCLOSURE TYPE AS INDICATED TO PROTECT DEVICE CONNECTED. FUSES TO BE PROVIDED WHERE LOCATED.
	MOTOR STARTER, SIZE AND ENCLOSURE TYPE AS INDICATED TO PROTECT DEVICE CONNECTED. PROVIDE OVERLOAD RELAYS
30A-3P 240V-N3R-F	= 30AMP - 3POLE = 240VOLT - NEMA 3R - FUSED
STARTER-N0 30A-3P 240V-N3R-F-24V COIL	= STARTER SIZE - NEMA 0 = 30AMP - 3POLE = 240VOLT - NEMA 3R - FUSED - 24VOLT COIL
STARTER-7.5HP-3P 600V-120V COIL	= STARTER 7.5 HORSEPOWER - 3POLE = 600VOLT - 120VOLT COIL
S	SINGLE POLE SPECIFICATION GRADE 20A SWITCH 120-277V WITH COVER PLATE, MOUNTED IN A 4" SQUARE BOX. PROVIDE NEMA 3R ENCLOSURE FOR DAMP/WET LOCATIONS AND EXTRA DUTY NEMA 4X ENCLOSURE IN WASHDOWN LOCATIONS. COORDINATE MOUNTING HEIGHT WITH EQUIPMENT.
S_2	DUAL POLE SPECIFICATION GRADE 20A SWITCH 120-277V WITH COVER PLATE, MOUNTED IN A 4" SQUARE BOX. PROVIDE NEMA 3R ENCLOSURE FOR DAMP/WET LOCATIONS AND EXTRA DUTY NEMA 4X ENCLOSURE IN WASHDOWN LOCATIONS. COORDINATE MOUNTING HEIGHT WITH EQUIPMENT.
EINV	10.0 KW / KVA SINGLE PHASE SINE WAVE OUTPUT INVERTER - IOTA #IIS-SZ-10000-277IN-277OUT-FT-BLOCK(24)-BYPASS-24-1P277-20AMP-ON, INVERTER WITH 10.0 KW OUTPUT WATTAGE, 277 VAC INPUT, 277 VAC OUTPUT, FAST TRANSFER (2ms), 90 MINUTE RUNTIME, 24 OUTPUT BREAKER LOCKS, INTERNAL MAINTENANCE BYPASS (BREAK BEFORE MAKE) AND 24, 1 POLE, 277 VOLT, 20 AMP NORMALLY ON OUTPUT BREAKERS. MAX INPUT CURRENT = 45 AMPS, MOCP = 60 AMPS, WEIGHT =2600 LBS.

LIGHTING SYSTEM COMMISSIONING SPECIFICATIONS

1. PER 2018 WASHINGTON ENERGY CONSERVATION CODE REQUIREMENTS, SYSTEM ELECTRICAL COMMISSIONING SHALL BE PERFORMED AS SPECIFIED HEREIN BY THE ELECTRICAL CONTRACTOR.
2. PRIOR TO THE FINAL ELECTRICAL INSPECTION, AN APPROVED AGENCY (APPROVED BY CODE OFFICIAL) OR REGISTERED DESIGN PROFESSIONAL SHALL PROVIDE EVIDENCE OF ELECTRICAL SYSTEMS COMMISSIONING AND COMPLETION IN ACCORDANCE WITH THE 2018 IECC REQUIREMENTS. IT IS ELECTRICAL CONTRACTOR RESPONSIBILITY TO PERFORM ALL TESTS, RECORD ALL RESULTS AND PROVIDE DOCUMENTATION TO APPROVED AGENCY OR REGISTERED DESIGN PROFESSIONAL. APPROVED AGENCY OR REGISTERED DESIGN PROFESSIONAL MAY VISIT THE SITE AND REQUEST CONTRACTOR TO PERFORM SAMPLE TESTING.
3. SYSTEMS TO BE COMMISSIONED FOR THIS PROJECT INCLUDE (BUT IS NOT LIMITED TO) OCCUPANT SENSOR CONTROLS, TIME-SWITCH CONTROLS AND DAYLIGHT RESPONSIVE CONTROLS.
4. FUNCTIONAL TESTING SHALL BE CONDUCTED FOR THE ABOVE REFERENCED SYSTEMS. THE TESTING SHALL DEMONSTRATE THAT THE INSTALLATION AND OPERATION OF SYSTEMS IS IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. FUNCTIONAL TESTING CHECKLISTS SHALL BE WRITTEN AND INCLUDE AT MINIMUM:
   - A. OCCUPANT SENSOR CONTROLS (WHERE PROVIDED). WHERE 7 OR FEWER OCCUPANT SENSORS ARE PROVIDED TESTING SHALL BE PERFORMED FOR EACH SENSOR. WHERE MORE THAN 7 OCCUPANT SENSORS ARE PROVIDED TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY. WHERE MULTIPLES OF EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY ARE PROVIDED, NOT LESS THAN 10 PERCENT, BUT IN NO CASE LESS THAN ONE, OF EACH COMBINATION SHALL BE TESTED. WHERE 30 PERCENT OR MORE OF THE TESTED CONTROLS FAIL, ALL REMAINING IDENTICAL COMBINATIONS SHALL BE TESTED.
     - A. LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
     - B. STATUS INDICATORS (WHERE INCLUDED) VERIFY CORRECT OPERATION.
     - C. CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME.
     - D. FOR AUTO ON, LIGHTS TURN ON TO PERMITTED LEVEL WHEN OCCUPANCY IS DETECTED.
     - E. FOR MANUAL ON, LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED.
     - F. LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN ADJACENT AREAS OR BY HVAC OPERATION.
   - B. TIME SWITCH CONTROLS (WHERE PROVIDED)
     - a. PROGRAMMED WITH ACCURATE WEEKDAY, WEEKEND, AND HOLIDAY SCHEDULES.
     - b. PROGRAMMED CORRECT TIME AND DATE.
     - c. BATTERY BACK UP IS INSTALLED AND ENERGIZED.
     - d. OVERRIDE TIME LIMIT IS SET TO NOT MORE THAN 2 HOURS.
     - e. ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH.
     - f. SWITCH ONLY OPERATES LIGHTING IN ENCLOSED SPACE IN WHICH SWITCH IS LOCATED.
     - g. NONEXEMPT LIGHTING TURNS OFF WHEN REQUIRED.
     - h. MANUAL OVERRIDE SWITCH ALLOWS ONLY LIGHTS IN ENCLOSED SPACE WHERE OVERRIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL NEXT SCHEDULED SHUTOFF OCCURS.
   - C. DAYLIGHT RESPONSIVE CONTROLS (WHERE PROVIDED)
     - a. PROPERLY LOCATED, FIELD CALIBRATED AND SET FOR ACCURATE SET POINTS AND THRESHOLD LIGHT LEVELS.
     - b. DAYLIGHT CONTROLLED LIGHTING LOADS ADJUST TO LIGHT LEVEL SET POINTS IN RESPONSE TO AVAILABLE DAYLIGHT.
     - c. CALIBRATION ADJUSTMENT EQUIPMENT IS LOCATED FOR READY ACCESS ONLY BY AUTHORIZED PERSONNEL.
5. A REGISTERED DESIGN PROFESSIONAL MAY PROVIDE A COPY OF THE COMMISSIONING REPORT TO THE BUILDING OWNER UPON REVIEW. THE BUILDING OWNER MAY PROVIDE A LETTER OF TRANSMITTAL TO THE AUTHORITY HAVING JURISDICTION STATING THAT THE BUILDING OWNER HAS RECEIVED THE COMMISSIONING REPORT. IT IS POSSIBLE THAT THE BUILDING MAY NOT PASS FINAL ELECTRICAL INSPECTION UNTIL THE TRANSMITTAL HAS BEEN RECEIVED BY THE AUTHORITY HAVING JURISDICTION.
6. UPON COMPLETION OF THE COMMISSIONING REPORT, ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING TO THE BUILDING OWNER WITHIN 90 DAYS OF RECEIPT OF CERTIFICATE OF OCCUPANCY:
   - A. AS-BUILTS WITH LOCATION AND CATALOGUE NUMBER OF EACH PIECE OF EQUIPMENT
   - B. O&M MANUAL. THE MANUALS SHALL INCLUDE:
     - a. NAME AND ADDRESS OF NOT LESS THAN ONE SERVICE AGENCY FOR INSTALLED EQUIPMENT
     - b. A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SET POINTS.
     - c. SUBMITTAL DATA INDICATING ALL SELECTED OPTIONS FOR EACH PIECE OF LIGHTING EQUIPMENT AND LIGHTING CONTROLS
     - d. OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF LIGHTING EQUIPMENT. REQUIRED ROUTINE MAINTENANCE ACTIONS, CLEANING AND RECOMMENDED RE-LAMPING SHALL BE CLEARLY IDENTIFIED.
     - e. A SCHEDULE FOR INSPECTING AND RECALIBRATING ALL LIGHTING CONTROLS.
   - C. DOCUMENTATION OF PROGRAMMING SETTINGS INCLUDING WEEKDAY, WEEKEND, HOLIDAY SCHEDULES, SET UP AND PREFERENCE PROGRAM SETTINGS.
   - D. RESULTS OF FUNCTIONAL PERFORMANCE TESTS
   - E. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.
   - F. TRAINING OF OWNER'S OPERATING STAFF AND BUILDING OCCUPANT USING QUALIFIED PERSONNEL HAS BEEN PERFORMED

EQUIPMENT	LOCATION MOUNTING	HEIGHT
LIGHT FIXTURES	ALL LOCATIONS	REFERENCE LIGHTING DRAWINGS
EXIT SIGNS	ABOVE DOORS (WALL MOUNTING)	6" MIN ABOVE TOP OF DOOR TO BOTTOM OF SIGN
		6'-8" MAX ABOVE TOP EDGE OF EGRESS OPENING TO BOTTOM OF SIGN
	FLOOR PROXIMITY (WALL MOUNTING)	0'-6" A.F.F. TO BOTTOM OF SIGN
		0'-4" FROM FRONT EDGE OF SIGN TO DOOR FRAME
	ALL OTHER (WALL MOUNTING)	7'-6" MIN A.F.F. TO BOTTOM OF SIGN
		6'-8" MAX ABOVE TOP EDGE OF EGRESS OPENING TO BOTTOM OF SIGN
EMERGENCY LIGHTS	ALL LOCATIONS (WALL MOUNTING)	7'-6" MIN A.F.F. TO BOTTOM OF DEVICE
LIGHT SWITCH / INTERFACE	ALL LOCATIONS	3'-6" A.F.F TO BOTTOM OF DEVICE
RECEPTACLES	TYPICAL INDOOR	1'-6" A.F.F TO BOTTOM OF DEVICE
	MECHANICAL/ELECTRICAL ROOMS	3'-6" A.F.F TO BOTTOM OF DEVICE
	WET/WASHDOWN/PROCESSING	3'-6" A.F.F TO BOTTOM OF DEVICE
	EXTERIOR	2'-0" A.F.F TO BOTTOM OF DEVICE
DATA / COMMUNICATION / CATV	ALL LOCATIONS	SAME ELEVATION AS ADJACENT RECEPTACLE
THERMOSTATS	ALL LOCATIONS	3'-6" A.F.F TO BOTTOM OF DEVICE
TIMERS	ALL LOCATIONS	3'-6" A.F.F TO BOTTOM OF DEVICE
MOTOR STARTERS	ALL LOCATIONS	6'-7" A.F.F. MAX TO CENTERLINE OF OPERATING HANDLE
SAFETY SWITCHES	ALL LOCATIONS	6'-7" A.F.F. MAX TO CENTERLINE OF OPERATING HANDLE
PANELBOARDS	ALL LOCATIONS	6'-7" A.F.F. MAX TO CENTERLINE OF TOP CIRCUIT BREAKER

NOTE: MOUNTING HEIGHTS FOR THE EQUIPMENT ABOVE SHALL BE USED UNLESS OTHERWISE NOTED. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA, NEC AND LOCAL REQUIREMENTS.

CONDUCTOR SIZING TABLE

FOR 120V-20A BRANCH CIRCUITS

DISTANCE	USE COPPER WIRE AWG SIZE AS FOLLOWS ON ENTIRE CIRCUIT
0'-75'	#12 (MIN)
75'-175'	#10
175'-300'	#8
300'-450'	#6

CONDUCTOR SIZING TABLE

FOR 208V-20A BRANCH CIRCUITS

DISTANCE	USE COPPER WIRE AWG SIZE AS FOLLOWS ON ENTIRE CIRCUIT
0'-175'	#12 (MIN)
175'-300'	#10
300'-500'	#8
500'-750'	#6

CONDUCTOR SIZING TABLE

FOR 277V-20A BRANCH CIRCUITS

DISTANCE	USE COPPER WIRE AWG SIZE AS FOLLOWS ON ENTIRE CIRCUIT
0'-250'	#12 (MIN)
250'-400'	#10
400'-700'	#8
700'-1000'	#6

2018 - Interior Lighting Power Allowances

Space-by-Space Method	2018 - Washington State Energy Code		Base Efficiency		Addional Efficiency	Design
Room Number - Name	Space Type	Area [SQ. FT.]	Allowable LPD [W/ft2]	Allowable Watts	Allowable LPD [W/ft2]	Allowable Watts	Total Room Watts
Number - Fixture Type	Watts per Fixture						
2 - EX. BATTERY CHARGING	Manufacturing Facility - Equipment	350	0.76	266	0.68	239	306
2 - A1	153 W						
4 - EX. DRY STORAGE	Electrical/Mechanical Room	725	0.43	312	0.39	281	612
4 - A1	153 W						
9 - EXISTING FREEZER (-10°F)	Warhouse-Storage Area - Medium to Bulky, Palletized Items	11238	0.33	3708	0.30	3338	3072
16 - A	192 W						
14 - EX. COLD DOCK (34°F)	Loading Dock, Interior	3073	0.88	2704	0.79	2434	1071
7 - A1	153 W						
101 - COLD DOCK (34°F)	Loading Dock, Interior	2985	0.88	2627	0.79	2364	918
6 - A1	153 W						
102 - FREEZER (-10°F)	Warhouse-Storage Area - Medium to Bulky, Palletized Items	15721	0.33	5188	0.30	4669	5184
27 - A	192 W						
103 - FIRE RISER	Electrical/Mechanical Room	48	0.43	21	0.39	19	51
1 - B	51 W						
104 - FREEZER (-10°F)	Warhouse-Storage Area - Medium to Bulky, Palletized Items	23590	0.33	7785	0.30	7006	8523
42 - A	192 W						
3 - A1	153 W						
105 - BATTERY CHARGING	Manufacturing Facility - Equipment	729	0.76	554	0.68	499	459
3 - A1	153 W						
106 - FIRE RISER	Electrical/Mechanical Room	48	0.43	21	0.39	19	51
1 - B	51 W						
U01 - FIRE PUMP	Electrical/Mechanical Room	356	0.43	153	0.39	138	188
4 - C	47 W						
Grand total		58862		23338		21

PRCA20240398

Switchboard Schedule: MSB1 **Mains Rating:** 2000 A MCB 100% Rated **Voltage:** 480/277 Volt **Phases:** 3 **Wires:** 4
Fed From: UTILITY XFMR **Location:** OUTSIDE **Mounting:** Floor **Enclosure:** NEMA 3R

MSB1

Ckt #	Note	Load Name	Frame	Trip	Poles	L1	L2	L3	Conduit	Wire	Ground
1		Refrigeration Single Point	800	800	3	589	589	589	SEE SINGLE LINE	SEE SINGLE LINE	SEE SINGLE LINE
2		Refrigeration Single Point	800	800	3	589	589	589	SEE SINGLE LINE	SEE SINGLE LINE	SEE SINGLE LINE
3		FPH1	250	225	3	57	53	53	SEE SINGLE LINE	SEE SINGLE LINE	SEE SINGLE LINE
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											

	L1	L2	L3
Connected Kilo Volt-Amperes =	342	341	341
Connected Total Amperes =	1236	1232	1232
Amperes Per Phase @ 25% Diversity =	927	925	925

VERIFY ALL EQUIPMENT REQUIREMENTS WITH MANUFACTURERS

NOTES:
1.) 3.)
2.) 4.)

Panel Schedule: FPH1 **Mains Rating:** 225 A MCB **Voltage:** 480/277 Volt **Phases:** 3 **Wires:** 4
Fed From: MSB1 **Location:** FIRE PUMP U01 **Mounting:** SURFACE **Enclosure:** NEMA 1

FPH1

Ckt #	Note	Circuit Description	Conduit	Wire	Ground	Frame	Trip	Pole	L1	L2	L3	Pole	Trip	Frame	Ground	Wire	Conduit	Circuit Description	Note	Ckt #
1			SEE XFMR SCHD.	SEE XFMR SCHD.	SEE XFMR SCHD.	100	70	3	15.1		0.9	1	20	100	1C12	2C12	3/4"	Lts. U01		2
3		DTFPL1							12.4											4
5										12.1										6
7									18.1											8
9		Storage Tank Heater	3/4"	3C10	1C10	100	25	3	18.1											10
11										18.1										12
13									18.1											14
15		Storage Tank Heater	3/4"	3C10	1C10	100	25	3	18.1											16
17										18.1										18
19									4.8											20
21		Jockey Pump Controller	3/4"	3C12	1C12	100	20	3		4.8										22
23											4.8									24
25																				26
27																				28
29																				30
31																				32
33																				34
35																				36
37																				38
39																				40
41																				42

	L1	L2	L3
Connected Total Amperes =	57	53	53
Amperes Per Phase @ 25% Diversity =	43	40	40

VERIFY ALL EQUIPMENT REQUIREMENTS WITH MANUFACTURERS

NOTES:
1.) 3.)
2.) 4.)

Panel Schedule: FPL1 **Mains Rating:** 150 A MCB **Voltage:** 208/120 Volt **Phases:** 3 **Wires:** 4
Fed From: DTFPL1 **Location:** FIRE PUMP U01 **Mounting:** SURFACE **Enclosure:** NEMA 1

FPL1

Ckt #	Note	Circuit Description	Conduit	Wire	Ground	Frame	Trip	Pole	L1	L2	L3	L1	L2	L3	Pole	Trip	Frame	Ground	Wire	Conduit	Circuit Description	Note	Ckt #
1		EF4	3/4"	2C12	1C12	100	20	1	0.3			6.0			1	20	100	1C12	2C12	3/4"	Rec. U01, Outside		2
3		CH2A	3/4"	2C12	1C12	100	20	1		12.5													4
5		Fire Pump Controller	3/4"	2C12	1C12	100	20	1			16.0												6
7		Rec. Backflow Preventer	3/4"	2C12	1C12	100	20	1	16.0														8
9		Dedicated Circuit	3/4"	2C12	1C12	100	20	1		16.0													10
11		Self Regulating Cables	3/4"	2C12	1C12	100	15	1			12.0												12
13		CH2B	3/4"	2C12	1C12	100	20	1	12.5														14
15																							16
17																							18
19																							20
21																							22
23																							24
25																							26
27																							28
29																							30
31																							32
33																							34
35																							36
37																							38
39																							40
41																							42

	L1	L2	L3
Connected Total Amperes =	35	29	28
Amperes Per Phase @ 25% Diversity =	27	22	21

VERIFY ALL EQUIPMENT REQUIREMENTS WITH MANUFACTURERS

NOTES:
1.) 3.)
2.) 4.)

Panel Schedule: ML2 **Mains Rating:** 100 A MCB **Voltage:** 208/120 Volt **Phases:** 3 **Wires:** 4
Fed From: ML1 **Location:** **Mounting:** SURFACE **Enclosure:** NEMA 3R

ML2

Ckt #	Note	Circuit Description	Conduit	Wire	Ground	Frame	Trip	Pole	L1	L2	L3	L1	L2	L3	Pole	Trip	Frame	Ground	Wire	Conduit	Circuit Description	Note	Ckt #
1	1	Door 104B Heat Trace	3/4"	2C12	1C12	100	20	1	3.0			12.0			1	20	100	1C12	2C12	3/4"	Switch		2
3	1	Door 104A Heat Trace	3/4"	2C12	1C12	100	20	1		3.0			12.0		1	20	100	1C8	2C8	3/4"	Rec. Heater Box (Antennas)		4
5	1	Door 102B Heat Trace	3/4"	2C12	1C12	100	20	1			3.0			12.0	1	20	100	1C12	2C12	3/4"	Rec. Heater Box (Antennas)		6
7	1	Door 102A Heat Trace	3/4"	2C10	1C10	100	20	1	3.0			12.0			1	20	100	1C8	2C8	3/4"	Rec. Heater Box (Antennas)		8
9		Rec.	3/4"	2C12	1C12	100	20	1		4.5			12.0		1	20	100	1C12	2C12	3/4"	Dedicated		10
11		Jib Crane	3/4"	2C12	1C12	100	20	1			16.0			12.0	1	20	100	1C12	2C12	3/4"	Dedicated		12
13		CH1A	3/4"	2C6	1C6	100	20	1	12.5														14
15		Rec. 103, EF2	3/4"	2C10	1C10	100	20	1		2.1													16
17																							18
19																							20
21																							22
23																							24
25																							26
27																							28
29																							30

	L1	L2	L3
Connected Total Amperes =	44	34	44
Amperes Per Phase @ 25% Diversity =	33	26	34

VERIFY ALL EQUIPMENT REQUIREMENTS WITH MANUFACTURERS

NOTES:
1.) Provide GFEP Breaker 3.)
2.) 4.)

TRANSFORMER SCHEDULE

#	SIZE KVA	TRANSFORMER TYPE	ENCLOSURE TYPE	TYPE OF INSTALLATION	VOLTAGE - CONDUIT AND WIRING PRIMARY	VOLTAGE - CONDUIT AND WIRING SECONDARY	PHASE	DESCRIPTION OF PROPOSED WORK
DTML1	75.0	DRY	NEMA 1	FLOOR MOUNT	480V-3PH-3W (DELTA) 2"C, 3C1, 1C6 GRD	208Y / 120V-3PH-4W (WYE) 2-1/2"C, 4C4/0, 1C2 GRD	3	PRIMARY - FROM PANEL MH1 SECONDARY - TO PANEL ML1
DTFPL1	45.0	DRY	NEMA 1	FLOOR MOUNT	480V-3PH-3W (DELTA) 1"C, 3C4, 1C8 GRD	208Y / 120V-3PH-4W (WYE) 1-1/2"C, 4C1/0, 1C6 GRD	3	PRIMARY - FROM PANEL FPH1 SECONDARY - TO PANEL FPL1

Panel Schedule: MH1 **Mains Rating:** 600 A MLO **Voltage:** 480/277 Volt **Phases:** 3 **Wires:** 4
Fed From: MSB11 **Location:** EX. DRY STORAGE 4 **Mounting:** SURFACE **Enclosure:** NEMA 1

MH1

Ckt #	Note	Circuit Description	Conduit	Wire	Ground	Frame	Trip	Pole	L1	L2	L3	L1	L2	L3	Pole	Trip	Frame	Ground	Wire	Conduit	Circuit Description	Note	Ckt #
1									6.0			8.3			1	20	100	1C12	2C12	3/4"	Lts. Exist. Dock, Battery, Storage, 101, 105		2
3		Dock Leveler 101C	3/4"	3C12	1C12	100	20	3		6.0			6.2		1	20	100	1C10	2C10	3/4"	Lts. 102		4
5											6.0			7.1	1	20	100	1C10	2C10	3/4"	Lts. 102, 103		6
7									6.0			10.3			1	20	100	1C10	2C10	3/4"	Lts. 104, 106		8
9		Dock Leveler 101D	3/4"	3C12	1C12	100	20	3		6.0			8.3		1	20	100	1C10	2C10	3/4"	Lts. 104		10
11											6.0			11.1	1	20	100	1C8	2C8	3/4"	Lts. Exist. Freezer, 104		12
13									6.0			5.7			1	20	100	1C10	2C10	3/4"	Lts. Wallpacks		14
15		Dock Leveler 101E	3/4"	3C12	1C12	100	20	3		6.0			23.5		1	60	100	1C10	2C4	1"	Emergency Inverter		16
17											6.0												18
19									6.0														20
21		Dock Leveler 101F	3/4"	3C12	1C12	100	20	3		6.0													22
23											6.0												24
25									32.0			7.6											26
27		Reefer Plug 101C	1"	4C6	1C10	100	50	3		32.0			7.6		3	20	100	1C12	3C12	3/4"	North Riser Room Compressor		28
29											32.0			7.6									30
31									32.0			7.6											32
33		Reefer Plug 101D	1"	4C6	1C10	100	50	3		32.0			7.6		3	20	100	1C12	3C12	3/4"	South Riser Room Compressor		34
35											32.0			7.6									36
37									32.0			10.5			1	20	100	1C10	2C10	3/4"	Heating Mat 102D, 102E	1	38
39		Reefer Plug 101E	1"	4C6	1C10	100	50	3		32.0			8.2		1	20	100	1C12	2C12	3/4"	Heating Mat 102C	1	40
41											32.0			8.2	1	20	100	1C12	2C12	3/4"	Heating Mat 105A	1	42
43									32.0			9.0			1	20	100	1C12	2C12	3/4"	Piping Heat Trace	1	44
45		Reefer Plug 101F	1"	4C6	1C10	100	50	3		32.0			6.9		1	20	100	1C10	2C10	3/4"	Piping Heat Trace	1	46
47											32.0												48
49									10.5														50
51		Door 101B, 102C, 102D	3/4"	3C12	1C12	100	20	3		10.5													52
53											10.5												54
55									3.5														56
57		Door 106A	3/4"	3C12	1C12	100	20	3		3.5													58
59											3.5												60
61									14.1														62
63		MAU1	3/4"	3C10	1C10	100	25	3		14.1													64
65											14.1												66
67									24.0														68
69		UH1	3/4"	3C10	1C10	100	30	3		24.0													70
71											24.0												72
73																							74
75																							76
77																							78
79									46.9														80
81		DTML1	2"	3C1	1C6	125	125	3		41.1													82
83											36.1												84

	L1	L2	L3
Connected Total Amperes =	313	317	282
Amperes Per Phase @ 25% Diversity =	236	238	212

VERIFY ALL EQUIPMENT REQUIREMENTS WITH MANUFACTURERS

NOTES:
1.) Provide GFEP Breaker 3.)
2.) 4.)

Panel Schedule: ML1 **Mains Rating:** 225 A MCB **Voltage:** 208/120 Volt **Phases:** 3 **Wires:** 4
Fed From: DTML1 **Location:** EX. DRY STORAGE 4 **Mounting:** SURFACE **Enclosure:** NEMA 1

ML1

Ckt #	Note	Circuit Description	Conduit	Wire	Ground	Frame	Trip	Pole	L1	L2	L3	L1	L2	L3	Pole	Trip	Frame	Ground	Wire	Conduit	Circuit Description	Note	Ckt #
1									43.9			4.5			1	20	100	1C12	2C12	3/4"	Rec. Exist. Storage, 105		2
3		ML2	1 1/2"	4C1	1C8	100	100	3		33.6			12.0		1	20	100	1C6	2C6	3/4"	Switch		4
5											44.4			12.0	1	20	100	1C12	2C12	3/4"	Rec. Heater Box (Antennas)		6
7	1	Door 101A, 102E Heat Trace	3/4"	2C10	1C10	100	20	1	6.0			12.0			1	20	100	1C8	2C8	3/4"	Rec. Heater Box (Antennas)		8
9	1	Door 101B Heat Trace	3/4"	2C10	1C10	100	20	1		5.3			12.0		1	20	100	1C6	2C6	3/4"	Rec. Heater Box		10
11	1	Door 101C Heat Trace	3/4"	2C10	1C10	100	20	1			5.7			12.0	1	20	100	1C6	2C6	3/4"	Rec. Heater Box (Antennas)		12
13	1	Door 101D Heat Trace	3/4"	2C10	1C10	100	20	1	5.7			12.0			1	20	100	1C12	2C12	3/4"	Dedicated		14
15	1	Door 101E Heat Trace	3/4"	2C10	1C10	100	20	1	5.7			12.0			1	20	100	1C12	2C12	3/4"	Dedicated		16
17	1	Door 101F Heat Trace	3/4"	2C10	1C10	100	20	1		5.7													18
19	1	Door 101G Heat Trace	3/4"	2C10	1C10	100	20	1	3.0														20
21	1	Door 104C Heat Trace	3/4"	2C10	1C10	100	20	1		3.0													22
23	1	Door 104D Heat Trace	3/4"	2C12	1C12	100	20	1			3.0												24
25	1	Door 105A Heat Trace	3/4"	2C12	1C12	100	20	1	8.7														26
27		EF1	3/4"	2C12	1C12	100	20	1		9.8													28
29		Rec. 106, EF3	3/4"	2C10	1C10	100	20	1			2.1												30
31		CH1B	3/4"	2C6	1C6	100	20	1	12.5														32
33																							34
35																							36
37																							38
39																							40
41																							42

	L1	L2	L3
Connected Total Amperes =	108	95	83
Amperes Per Phase @ 25% Diversity =	82	72	63

VERIFY ALL EQUIPMENT REQUIREMENTS WITH MANUFACTURERS

NOTES:
1.) Provide GFEP Breaker 3.)
2.) 4.)

Panel Schedule: BCH1 **Mains Rating:** 400 A MLO **Voltage:** 480/277 Volt **Phases:** 3 **Wires:** 4
Fed From: MSB11 **Location:** BATTERY CHARGING 105 **Mounting:** SURFACE **Enclosure:** NEMA 1

BCH1

Ckt #	Note	Circuit Description	Conduit	Wire	Ground	Frame	Trip	Pole	L1	L2	L3	L1	L2	L3	Pole	Trip	Frame	Ground	Wire	Conduit	Circuit Description	Note	Ckt #
1									13.8			13.8											2
3		Battery Charger 1	3/4"	3C12	1C12	100	20	3		13.8			13.8		3	20	100	--	--	--	Existing Battery Charger 11		4
5											13.8			13.8									6
7									13.8			13.8											8
9		Battery Charger 2	3/4"	3C12	1C12	100	20	3		13.8			13.8		3	20	100	--	--	--	Existing Battery Charger 12		10
11											13.8			13.8									12
13									13.8			13.8											14
15		Battery Charger 3	3/4"	3C12	1C12	100	20	3		13.8			13.8		3	20	100	--	--	--	Existing Battery Charger 13		16
17											13.8			13.8									18
19									13.8			13.8											20
21		Battery Charger 4	3/4"	3C12	1C12	100	20	3		13.8			13.8		3	20	100	--	--	--	Existing Battery Charger 14		22
23											13.8			13.8									24
25									13.8			13.8											26
27		Battery Charger 5	3/4"	3C12	1C12	100	20	3		13.8			13.8		3	20	100	--	--	--	Existing Battery Charger 15		28
29											13.8			13.8									30
31									13.8			13.8											32
33		Battery Charger 6	3/4"	3C12	1C12	100	20	3		13.8			13.8		3	20	100	--	--	--	Existing Battery Charger 16		34
35											13.8			13.8									36
37									13.8			13.8											38
39		Battery Charger 7	3/4"	3C12	1C12	100	20	3		13.8			13.8		3	20	100	--	--	--	Existing Battery Charger 17		40
41											13.8			13.8									42
43									13.8			13.8											44
45		Battery Charger 8	3/4"	3C12	1C12	100	20	3		13.8			13.8		3	20	100	--	--	--	Existing Battery Charger 18		46
47											13.8			13.8									48
49									13.8														50
51		Battery Charger 9	3/4"	3C12	1C12	100	20	3		13.8													52
53											13.8												54
55									13.8														56
57		Battery Charger 10	3/4"	3C12	1C12	100	20	3		13.8													58
59											13.8												60
61																							62
63																							64
65																							66

	L1	L2	L3
Connected Total Amperes =	248	248	248
Amperes Per Phase @ 25% Diversity =	187	187	187

VERIFY ALL EQUIPMENT REQUIREMENTS WITH MANUFACTURERS

NOTES:
1.) 3.)
2.) 4.)

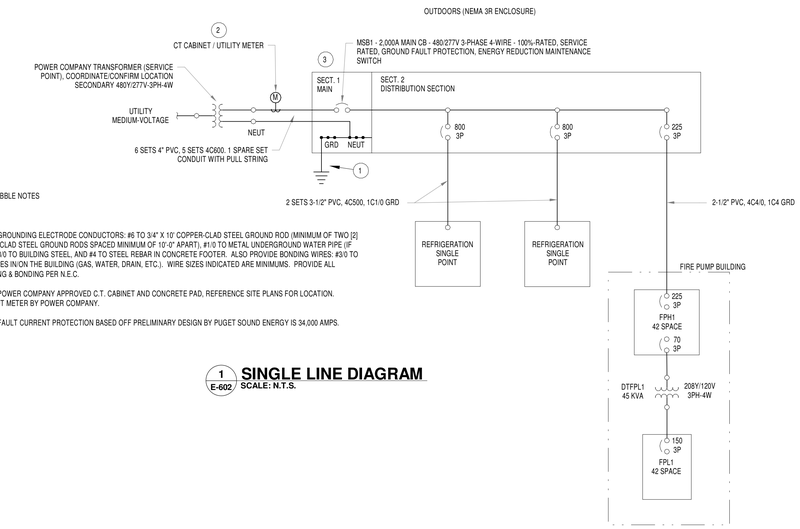
Inverter Schedule: EINV **Rating:** 10.0 kVA **Voltage:** 277 Volt **Phases:** 1 **Wires:** 2
Fed From: MH1 **Location:** EX. DRY STORAGE 4 **Mounting:** **Enclosure:**

EINV

Ckt #	Note	Load Name	Frame	Trip	Poles	L2	Conduit	Wire	Ground
1		EM Lts. 104	100	20	1	7	3/4"	2C10	1C10
2		Em Lts. Exist. Freezer, 104	100	20	1	6	3/4"	2C10	1C10
3		EM Lts. 102	100	20	1	6	3/4"	2C10	1C10
4		EM Lts. Exist. Dock, Battery, Storage, 101, 105	100	20	1	4	3/4"	2C12	1C12
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

	L2
Connected Total Amperes =	23

NOTES:
1.) 3.)
2.) 4.)



ELECTRICAL BUBBLE NOTES

BUBBLE (#)

1. PROVIDE GROUNDING ELECTRODE CONDUCTORS: #6 TO 3/4" X 10' COPPER-CLAD STEEL GROUND ROD (MINIMUM OF TWO [2] COPPER - CLAD STEEL GROUND RODS SPACED MINIMUM OF 10'-0" APART). #1/0 TO METAL UNDERGROUND WATER PIPE (IF METAL). #3/0 TO BUILDING STEEL, AND #4 TO STEEL REBAR IN CONCRETE FOOTER. ALSO PROVIDE BONDING WIRES: #3/0 TO METAL PIPES IN/ON THE BUILDING (GAS, WATER, DRAIN, ETC.). WIRE SIZES INDICATED ARE MINIMUMS. PROVIDE ALL GROUNDING & BONDING PER N.E.C.
2. PROVIDE POWER COMPANY APPROVED C.T. CABINET AND CONCRETE PAD, REFERENCE SITE PLANS FOR LOCATION. INSTUMENT METER BY POWER COMPANY.
3. MINIMUM FAULT CURRENT PROTECTION BASED OFF PRELIMINARY DESIGN BY PUGET SOUND ENERGY IS 34,000 AMPS.

1 E-602 **SINGLE LINE DIAGRAM**
SCALE: N.T.S.

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

RICHARD MARC WEAVER
STATE OF WASHINGTON
23001613
REGISTERED PROFESSIONAL ENGINEER
28 JUN 2024

REV	DESCRIPTION	BY	DATE
	30% PRICING SET	SRP	28 JUL 23
	PROGRESS RELEASE	SRP	25 JAN 24
	FAU, SPRINKLER, SPR	SRP	23 FEB 24
	90% DESIGN DOCUMENTS	SRP	06 MAR 24
	CONSTRUCTION USE	SRP	11 MAR 24
A	CONSTRUCTION USE REVISION	SRP	15 MAY 24
B	ISSUED FOR PERMIT	SRP	28 JUN 24
C			

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AWB ENGINEERS

GPD

WHITING-TURNER

ELECTRICAL SINGLE LINE AND PANEL SCHEDULES

FREEZER EXPANSION

PUYALLUP, WASHINGTON

SCALE	NONE
DRAWN	SRP
PROJ.MGR.	MRS
JOB	221205
SHEET	E-602

6/28/2024 6:57:09 AM Autodesk Docs://221205 - CPFD Freezer Expansion/221205_CPFD_Revit 2024.rvt