Plans and Specifications for the

AutoZone

AutoZone Store No. 10668; APN: 0419106022
4423 SOUTH MERIDIAN
PUYALLUP, WA 98373

7N2-REMODEL

PROJECT DIRECTORY

OWNER:
AUTOZONE, INC.
123 SOUTH FRONT STREET
MEMPHIS, TN 38103
TELEPHONE: (901) 495-7625
CONTACT: KEVIN MURPHY

LANDLORD:
HYPERION
13636 VENTURA BLVD., UNIT 677
SHERMAN OAKS, CA 91423
CONTACT: CRAIG MUELLER
EMAIL: cmueller@hyperioncre.com

PROJECT COORDINATOR - CLIENT REPRESENTATIVE:
HDG, INC.
1955 W DOWNER PLACE, SUITE 105
AURORA, IL 60506
TELEPHONE: (847) 719-0375
CONTACT: MICHAEL E. RICHARDSON

ARCHITECT:
R. GARY GLUECK
3797 LOOP ROAD
NASHVILLE, NV 27856
TELEPHONE: (252) 459-5900

MEP ENGINEER:
HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TELEPHONE: (913) 742-5000
MECHANICAL/PLUMBING ENGINEER:
CONTACT: ROBERT W. HARRIS JR., LICENSE: #22017869
ELECTRICAL ENGINEER:
CONTACT: BRIAN C. OLLIGES, LICENSE: #24015980

STRUCTURAL ENGINEER:
DLF ENGINEERS, INC.
P.O. BOX 717
WINDSOR, CA 95492
TELEPHONE: (707) 838-1505
CONTACT: JACOB GARZINI
LICENSE NUMBER: #24028133

BUILDING DEPARTMENT:
CITY OF PUYALLUP
333 SOUTH MERIDIAN
PUYALLUP, WA 98371
PHONE: (253) 864-4165

SCOPE OF WORK

THE FOLLOWING IS THE SCOPE OF WORK FOR THE TENANT IMPROVEMENTS INSIDE AN EXISTING BUILDING FOR AUTOZONE:

- DEMOLITION
- NEW ENTRY DOORS/GLAZING IN STOREFRONT
- NEW STOREFRONT WITH NEW HOLLOW METAL DOORS
- EXISTING STOREFRONT WITH NEW HOLLOW METAL DOORS
- NEW TRASH ENCLOSURE
- PATCH/REPAIR/PAINT EXISTING EXTERIOR EIFS
- DRYWALL/FRAMING
- DOOR/DOOR FRAME/DOOR HARDWARE INSTALL
- INTERIOR FINISHES
- MILLWORK INSTALL
- RACKING - UNDER SEPARATE PERMIT
- STOREFRONT SIGN - UNDER SEPARATE PERMIT
- MECHANICAL
- ELECTRICAL - POWER & LIGHTING
- PLUMBING
- FIRE ALARM - UNDER SEPARATE PERMIT
- FIRE SPRINKLER - UNDER SEPARATE PERMIT

PROJECT SUMMARY

SQUARE FOOTAGE: 27,730 SQ FT

TENANT FLOOR LEVEL: 1

BUILDING HEIGHT: 26'-8"

SPRINKLED: YES

FIRE ALARM: YES

CONSTRUCTION TYPE: V-B

OCCUPANCY TYPE: M - MERCANTILE & S-1 - STORAGE (1)

OCCUPANT LOAD: 202 (1)

NUMBER OF EXITS: 6

BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE

LIFE SAFETY CODE: 2021 INTERNATIONAL FIRE CODE

MECHANICAL CODE: 2021 INTERNATIONAL MECHANICAL CODE

ELECTRICAL CODE: 2025 NATIONAL ELECTRICAL CODE

ENERGY CODE: 2021 WASHINGTON STATE ENERGY CODE

PLUMBING CODE: 2021 UNIFORM PLUMBING CODE

ACCESSIBILITY:

DESIGN PARAMETERS

DESIGN CODES: 2021 INTERNATIONAL BUILDING CODE
OCCUPANCY CLASSIFICATION: GROUP M (MERCANTILE) & S-1 (STORAGE)
TYPE OF CONSTRUCTION: V-B
NUMBER OF STORIES: 1 ALLOWED / 1 SHOWN
PER 2021 INTERNATIONAL BUILDING CODE, TABLE 506.2
BUILDING AREA: 36,000 ALLOWED / 27,730 SHOWN
AREA INCREASE: NOT APPLICABLE

EXITING ANALYSIS

OCCUPANT LOAD FOR EGRESS: (1)

MERCANTILE:	8,258	/ 60 =	137
STORAGE:	19,472	/ 300 =	65
TOTAL:	27,730		202

EXITS:

2 EXITS REQUIRED FOR OCCUPANT LOAD > 50 (1)

EXIT WIDTH : 202 OCCUPANTS X .2 = 40.4" REQUIRED
ACTUAL = 344 IN. PROVIDED

EXIT SEPARATION: .5 X 238'-0" **= 119' REQUIRED
204' PROVIDED

** MAXIMUM OVERALL DIAGONAL DISTANCE

MAXIMUM TRAVEL DISTANCE: 250' / 204' SHOWN

AISLES:

MINIMUM WIDTH: 36 IN. REQUIRED / 39 IN. PROVIDED
(AREAS SERVING EMPLOYEES ONLY)

MINIMUM WIDTH: 44 IN. REQUIRED / 48 IN.(min) PROVIDED
(PUBLIC AREAS)

MAX. DEAD END LENGTH = 20 FT. / 15 FT. SHOWN

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

FIRE CODE & LIFE SAFETY NOTES:

1. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. EXCEPTION: MAIN EXIT DOOR HAS KEY LOCKING HARDWARE. G.C. SHALL PROVIDE A READABLE, DURABLE SIGN, ON OR ADJACENT TO THE EXIT DOOR, STATING "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED". SIGN TO BE ONE INCH HIGH LETTERS ON A CONTRASTING BACKGROUND.

2. MAINTAIN ONE HOUR FIRE RESISTIVE WALL CONSTRUCTION AT BUILT-IN FIXTURES SUCH AS FIRE EXTINGUISHER CABINETS, AND ELECTRICAL PANELS EXCEEDING 16 SQUARE INCHES IN AREA.

3. A MINIMUM OF ONE 2A10BC CLASSIFICATION FIRE EXTINGUISHER SHALL BE PROVIDED WITHIN 75' TRAVEL DISTANCE FOR EACH 6,000 SQ,. FT. OR PORTION THEREOF ON EACH FLOOR. TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR.

4. BUILDING ADDRESS LETTERS SHALL BE LOCATED ON BUILDING EXTERIOR IN ACCORDANCE WITH THE CITY MUNICIPAL CODE. ADDRESS NUMERALS SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR.

5. CONTRACTOR TO SECURE ALL PERMITS REQUIRED BY THE FIRE PREVENTION BUREAU PRIOR TO OCCUPANCY OF THIS BUILDING.

6. EXIT SIGNS ARE REQUIRED FOR ALL EXITS SERVING AN OCCUPANT LOAD EXCEEDING 50. SEE ELECTRICAL DRAWINGS FOR LOCATIONS.

7. INTERIOR FINISHES TO HAVE A FLAME SPREAD RATING OF 25 OR LESS.

8. FLAMMABLE AND COMBUSTIBLE MATERIAL WILL NOT EXCEED THE MAXIMUM ALLOWED UNDER TABLE 3404.3.4.1 OF THE IFC OR TABLE 7902.5-B OF THE UFC. THERE WILL BE NO HIGH PILED STORAGE AS DEFINED BY EITHER CODE.

9. ALL NEW WALL INSULATION IF INSTALLED UNDER THIS CONTRACT TO HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT RATING OF NOT MORE THAN 450. NEW ROOF INSULATION IF INSTALLED UNDER THIS CONTRACT TO HAVE A FLAME SPREAD RATING OF NOT MORE THAN 75 AND A SMOKE DEVELOPMENT RATING OF NOT MORE THAN 450. NEW ROOF COVERING IF INSTALLED UNDER THIS CONTRACT WILL BE CLASS "A".

10. SUBMITTALS FOR SPRINKLER SYSTEM MODIFICATION, WILL BE PROVIDED BY THE GC'S SUB CONTRACTOR AND SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION START. GC WILL ALSO HIRE INSTALLERS FOR ALL SPRINKLER.

11. GENERAL CONTRACTOR WILL COORDINATE ALL ALARM WORK AND INSTALLATION WITH AUTOZONE CONTACTS, KELLY CRUTCHER, TEL. 901-495-6699 OR DAVID RAKOWSKY TEL. 901-495-7241 PRIOR TO CONSTRUCTION START.

12. SUMITTALS FOR SIGNAGE PERMITS WILL BY FURNISHED BY THE INSTALLING CONTRACTOR, SIGNAGE DRAWINGS CONTAINED IN THIS SET ARE FOR GENERAL INFORMATION ONLY.

GENERAL NOTES

1. ALL SIGNAGE SHOWN WITHIN THESE DOCUMENTS (EITHER BUILDING OR FREESTANDING) SHALL BE SUPPLIED BY AUTOZONE, INC. AND INSTALLED BY THE SIGN VENDOR AT LOCATIONS INDICATED ON THE DRAWINGS. BUILDING WALL SURFACES SHALL BE MADE READY TO RECEIVE SIGNAGE BY THE GENERAL CONTRACTOR.

2. THE FOLLOWING ITEMS IF REQUIRED BY THE DOCUMENTS WILL BE SUPPLIED BY AUTOZONE, INC. AND INSTALLED BY THE GENERAL CONTRACTOR:
(A) ALL LIGHT FIXTURES, LAMPS, BALLASTS, ELECTRICAL PANELS, BREAKERS AND GEAR.
(B) ELECTRIC WATER HEATER
(C) NEW HVAC ROOF-TOP UNITS, ROOF CURBS OR ADAPTERS, FIRESTATS, SMOKE DETECTORS AND THERMOSTATS, REFER TO SHEET M-1.
(D) VENSTAR HVAC AND LIGHTING CONTROLS
(E) BEST CYLINDER LOCKS FOR GLASS AND ALUMINUM ENTRY DOORS AND FOR TELEPHONE CLOSET DOOR.

3. ALL UTILITIES SHALL BE PLACED IN AUTOZONE'S NAME FROM THE START OF THE PROJECT. THE GENERAL CONTRACTOR SHALL PAY DEPOSITS ON AUTOZONE'S BEHALF AND SHALL SUBMIT RECEIPTS FOR REIMBURSEMENT.

4. PHONEBOARD, PHONE EQUIPMENT AND ALARM EQUIPMENT INSTALLATION SHALL BE ACCOMPLISHED PRIOR TO COMPLETION OF THE PROJECT. FOR FURTHER INFORMATION PLEASE CALL ALARM SERVICES DEPARTMENT 8090: (901) 495-6699 or (901) 495-7197.

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

City of Puyallup Development Engineering APPROVED
See permit conditions.
AHunt
03/03/2026
12:07:26 PM

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

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

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

City of Puyallup Building REVIEWED FOR COMPLIANCE
SKinnear
02/27/2026
9:07:15 AM

INDEX TO DRAWINGS

SHEET	DESCRIPTION
	ARCHITECTURAL
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C-2	TRASH ENCLOSURE PLANS, ELEVATIONS & DETAILS
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A-1	FLOOR PLAN / NOTES / DETAILS
A-2	DOOR SCHEDULE / DETAILS
A-2.1	BREAKROOM PLAN / ELEVATIONS
A-3	EXTERIOR ELEVATIONS / NOTES
A-4	INTERIOR ELEVATIONS / DETAILS
A-4.1	INTERIOR ELEVATIONS / DETAILS
A-5	FIXTURE PLAN / DETAILS
A-6	REFLECTED CEILING PLAN / DETAILS
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	STRUCTURAL
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S0.2	GENERAL MASONRY NOTES & DETAILS
S0.3	GENERAL LIGHT GUAGE NOTES & DETAILS
S1	ALTERATION PLAN & DESIGN CRITERIA
S2	DETAILS
S3	DETAILS
S4	DETAILS
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M-2	MECHANICAL FLOOR PLAN
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M-5	MECHANICAL SCHEDULES & NOTES
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	ELECTRICAL
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E-1.1	ELECTRICAL POWER DETAILS & NOTES
E-2.0	ELECTRICAL DETAILS
E-2.1	DOOR ALARM AND EAS DETAILS
E-3.0	LIGHTING FLOOR PLAN
E-3.1	LIGHTING SCHEDULES
E-3.2	LIGHTING PHOTOMETRICS
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E-4.1	ELECTRICAL PANELBOARD SCHEDULES
E-5.0	LIGHTING CONTROL PANEL DETAILS
E-6.0	HVAC AND LIGHTING CONTROLS
E-7.0	ENERGY SHEETS
E-7.1	ENERGY SHEETS

SITE LOCATION PLAN
NTS

PROJECT LOCATION:
4423 SOUTH MERIDIAN
PUYALLUP, WA 98373

R. Gary Glueck
Architecture
Planning
3797 Loop Road
Nashville, NC 27856
Phone: 252-459-5900

4862 REGISTERED ARCHITECT
ROBERT GARY GLUECK
STATE OF WASHINGTON
5 FEB 26

ROBERT GARY GLUECK
STATE OF WASHINGTON
LICENSE NUMBER: #4862
EXPIRES: 1/6/2027

Plans and Specifications for the
AUTOZONE
AutoZone Store No. 10668
4423 SOUTH MERIDIAN
PUYALLUP, WA 98373

PRCTI20251723

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AT JOB SITE.

AND COPYRIGHTED BY AUTOZONE INC. CRIMINAL AND CIVIL PENALTIES AND DAMAGES, AND NOT TO BE USED, COPIED, OR DUPLICATED THESE DRAWINGS AND SPECIFICATIONS ARE OWNED WITHOUT PRIOR WRITTEN CONSENT. ANY UNAUTHORIZED USE OR DISCLOSURE OF THE PROPRIETARY INFORMATION CONTAINED HEREIN MAY SUBJECT SUCH PERSONS TO:
AUTOZONE, INC.
123 SOUTH FRONT STREET
MEMPHIS, TN 38103
TEL. 901-495-7625
CONTACT: KEVIN MURPHY

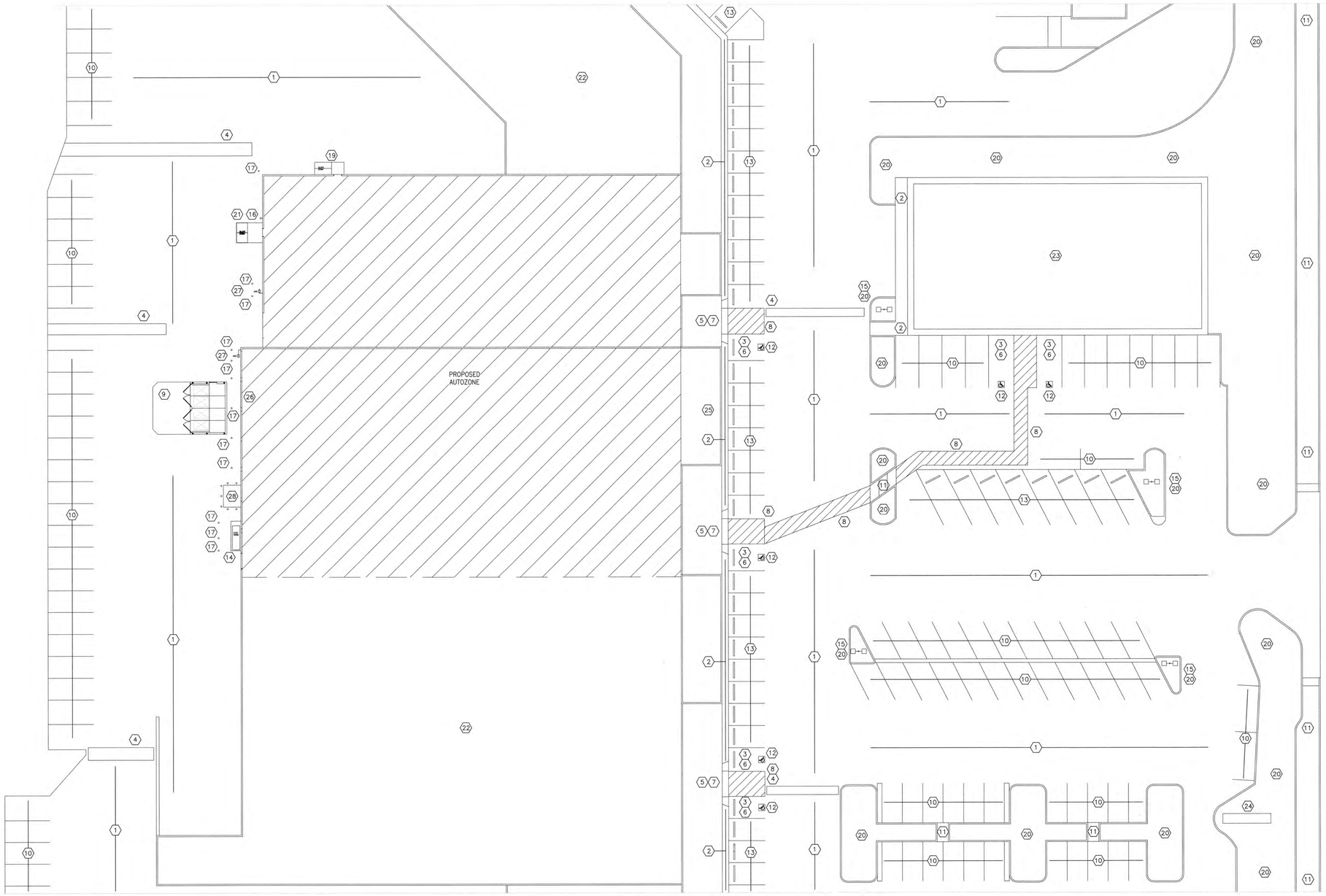
DRAWING HISTORY:

ISSUED FOR	DATE
ISSUED FOR AUTOZONE REVIEW	11/24/2025
ISSUED FOR PERMIT	11/24/2025
(1) REVISED FOR PERMIT	02/02/2026

DRAWN BY: CADD
CHECKED BY: RGG
DATE: 11/24/2025

COVER SHEET & CODE ANALYSIS

PROJECT	SHEET NO.
4406	CS



SITE PLAN
1" = 30'-0"

BUILDING & PAVING

1. EXISTING ASPHALT DRIVE LANE TO REMAIN
2. EXISTING SIDEWALK TO REMAIN
3. EXISTING HANDICAPPED PARKING STALL SIGNAGE TO REMAIN
4. EXISTING SPEED BUMP TO REMAIN
5. EXISTING COMPLIANT CONCRETE CURB RAMP TO REMAIN
6. EXISTING HANDICAPPED PARKING STALL TO REMAIN
7. EXISTING PATCH OF TRAVEL FROM ACCESSIBLE PARKING TO ENTRANCE
8. EXISTING ACCESS AISLE/CROSSWALK TO REMAIN
9. NEW TRASH ENCLOSURE WITH CONCRETE APRON, REFER TO SHEET C-2 & STRUCTURAL
10. EXISTING PARKING SPACE TO REMAIN
11. EXISTING PUBLIC SIDEWALK
12. EXISTING HANDICAPPED PARKING SYMBOLS TO REMAIN
13. EXISTING PARKING SPACE WITH TIRE STOPS TO REMAIN
14. EXISTING SPACE ELECTRICAL SERVICE TO REMAIN
15. EXISTING PARKING LOT LIGHT POLE TO REMAIN
16. EXISTING FIRE SPRINKLER RISER TO REMAIN
17. EXISTING BOLLARD TO REMAIN, PAINT RED
18. EXISTING CONCRETE CURB TO REMAIN
19. EXISTING RAMP/LANDING TO REMAIN
20. EXISTING LANDSCAPE TO REMAIN
21. EXISTING LANDING TO REMAIN, NEW CONCRETE RAMP ADDED TO LANDING REFER TO STRUCTURAL, SLOPE 1:12
22. EXISTING ADJACENT TENANT
23. EXISTING OUTLOT TENANT

SIGNAGE

24. EXISTING PYLON SIGN – AUTOZONE SIGN VENDOR TO FURNISH & INSTALL (2) PANELS TOTAL IN (1) LOCATION
25. NEW BUILDING SIGN – AUTOZONE SIGN VENDOR TO FURNISH & INSTALL – SEE SIGN DRAWINGS FOR ADDITIONAL INFORMATION, DETAILS AND REQUIREMENTS.

UTILITIES

26. EXISTING WATER SERVICE TO REMAIN
27. EXISTING GAS METER TO REMAIN
28. NEW GENERATOR, CAGE & BOLLARDS ON NEW CONCRETE SLAB, REFER TO ELECTRICAL, STRUCTURAL & D-1/A-1 FOR SLAB LOCATION

City of Puyallup Planning Division APPROVED

See permit conditions.

JHulseLew
01/23/2026
2:51:56 PM

R. Gary Glueck
Architecture
Planning

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

3797 Loop Road
Nashville, NC 27856
Phone: 252-459-5900

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1 REVISED FOR PERMIT	02/02/2026

DRAWN BY: CADD
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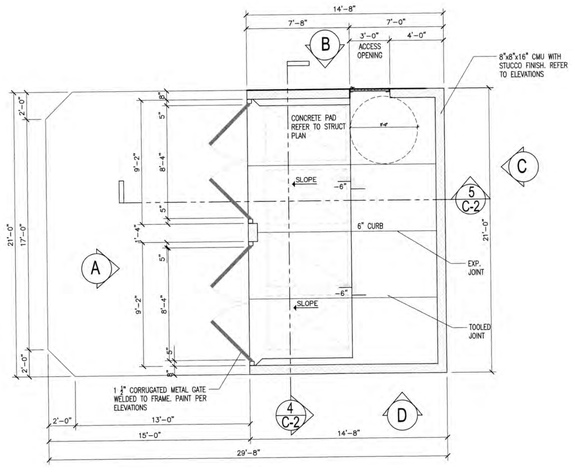
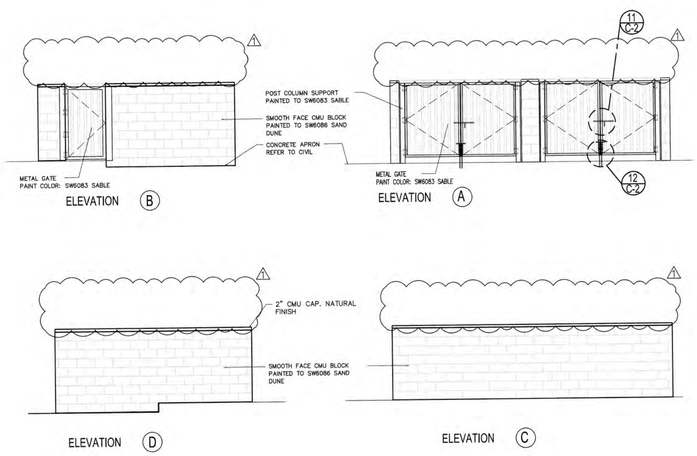
SITE PLAN/ NOTES/ DETAILS

PROJECT	SHEET NO.
4406	C-1



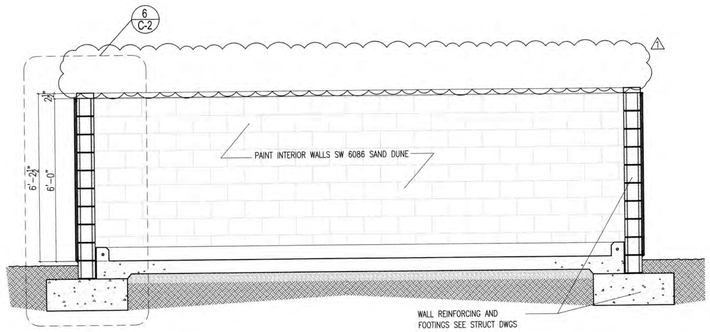
1 C-2 TRASH ENCLOSURE PLAN
3/16" = 1'-0"



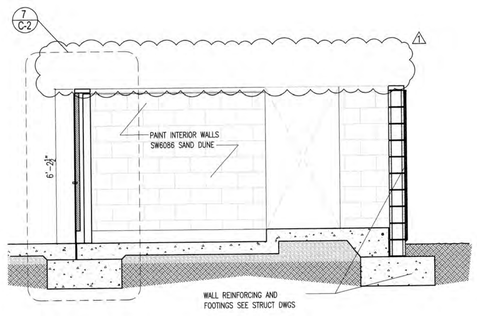
2 C-2 TRASH ENCLOSURE ELEVATIONS
3/16" = 1'-0"

NOT USED

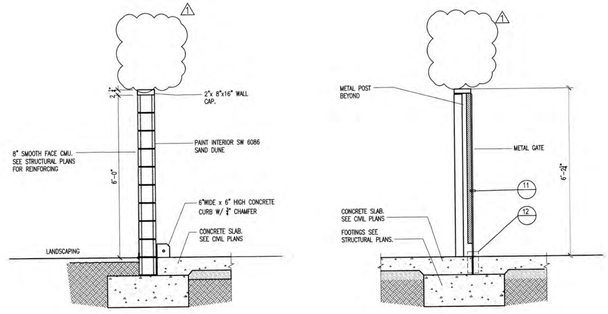
3 C-2 TRASH ENCLOSURE ROOF PLAN
3/16" = 1'-0"



4 C-2 LONGITUDINAL SECTION
3/8" = 1'-0"

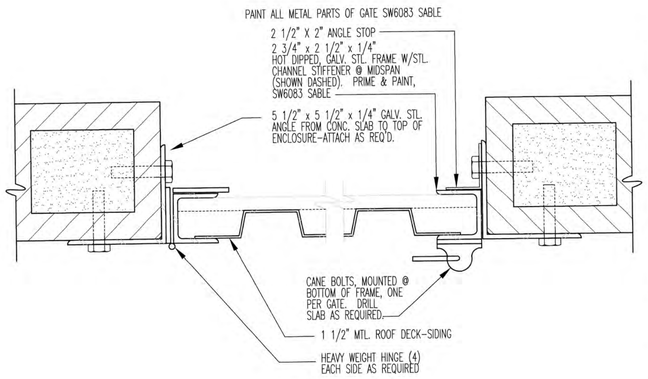


5 C-2 CROSS SECTION
3/8" = 1'-0"



6 C-2 SECTION
3/8" = 1'-0"

7 C-2 SECTION
3/8" = 1'-0"



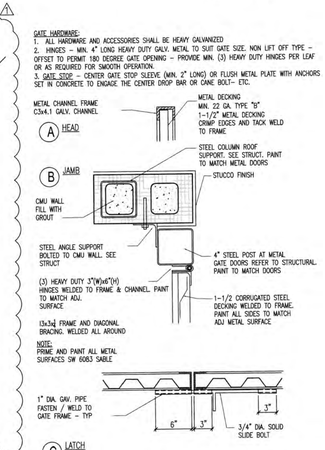
8 C-2 ACCESSIBLE GATE DETAIL
N.T.S.

NOT USED

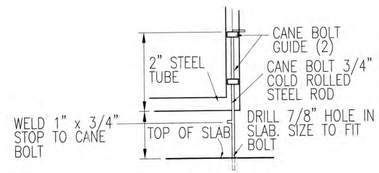
9 C-2 COLUMN EMBEDMENT
3" = 1'-0"

NOT USED

10 C-2 ROOF EAVE AT OVERHANG
3" = 1'-0"



11 C-2 HINGE & LATCH DETAILS
N.T.S.



12 C-2 CANE BOLT DETAIL
3" = 1'-0"

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1 REVISED FOR PERMIT	02/02/2026

DRAWN BY: CADD
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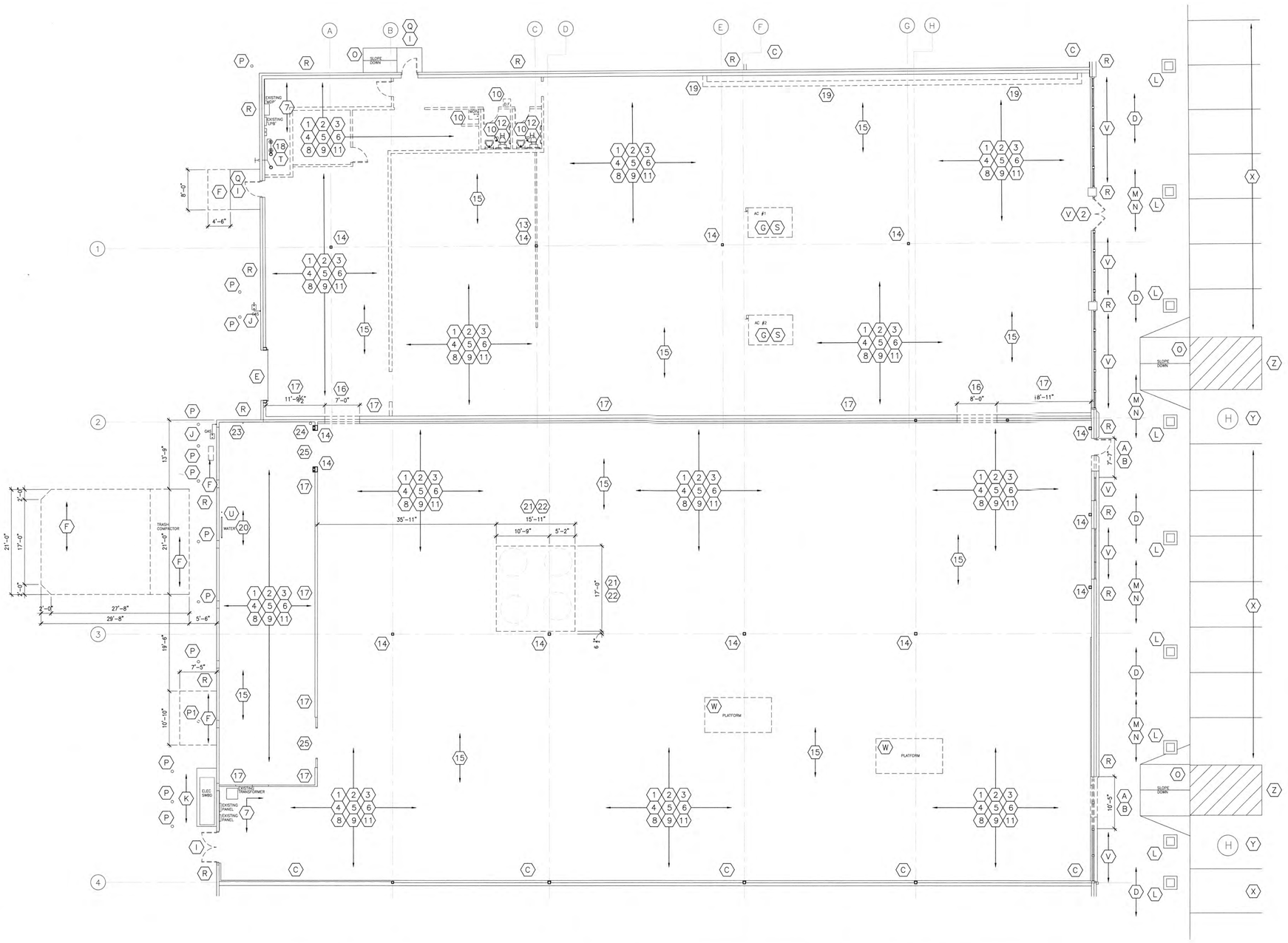
DATE: 11/24/2025

TRASH ENCLOSURE PLANS, ELEVATIONS & DETAILS

PROJECT	SHEET NO.
4406	C-2



DEMOLITION PLAN
3/32" = 1'-0"

FAILURE TO VERIFY ALL EXISTING DIMENSIONS AS SHOWN ON PLAN RESULTING IN ADDITIONAL EXPENSES OR COST SHALL BE AT THE COMPLETE EXPENSE OF THE GENERAL CONTRACTOR.

ASBESTOS REPORT NUMBER #BT25-5857, DATED 7/8/2025 FROM "NOVA GROUP" STATES THERE IS NO ASBESTOS PRESENT IN THE SPACE

GENERAL DEMOLITION NOTES

1. THE GENERAL CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS REQUIRED TO COMPLETE DEMOLITION, PROPER DISPOSITION OR REUSE OF ALL ITEMS SHOWN ON DRAWING AS NECESSARY IN PREPARATION FOR FINISH-OUT.
2. THE GENERAL CONTRACTOR SHALL PROTECT AT ALL TIMES THE PROPERTY OF THE OWNER AND OTHER TENANTS IN THE BUILDING. THIS INCLUDES BUT IS NOT LIMITED TO WINDOWS, FLOORS, CEILING, TOILETS, DOORS, TRIM, AND ELECTRICAL EQUIPMENT OR OPENINGS CREATED BY THE REMOVAL OF ANY ITEM.
3. THE GENERAL CONTRACTOR SHALL DIRECT ALL NECESSARY SHORING, BRACING, TEMPORARY PARTITIONS, AND COVERING OF OPENINGS TO PROTECT THE EXISTING BUILDING WHILE DEMOLITION AND CONSTRUCTION IS IN PROGRESS.
4. ALL WORK DEMOLISHED SHALL BE REMOVED FROM THE PREMISES DAILY, EXCEPT ITEMS TO BE RE-USED OR RETURNED TO THE OWNER OR AS DIRECTED OTHERWISE.
5. PATCH AND REPAIR EXISTING CONSTRUCTION IMPACTED BY DEMOLITION TO RESTORE FINISH TO "LIKE NEW" CONDITION UNLESS DIRECTED OTHERWISE.
6. DOOR HARDWARE, LIGHT FIXTURES, ETC. REMOVED AND NOT IMMEDIATELY RE-USED ARE TO BE STORED IN AN AREA DESIGNATED BY THE PROJECT MANAGER.
7. TAKE PRECAUTION AGAINST ELECTRICAL AND FIRE HAZARDS DURING DEMOLITION. DO NOT INTERRUPT POWER IN OCCUPIED TENANT SPACES WITHOUT PRIOR NOTICE AND APPROVAL OF LANDLORD/OWNER.
8. CONCRETE TO BE REMOVED SHALL BE SAWCUT PRIOR TO REMOVAL IN ORDER TO PROTECT SLAB TO REMAIN.
9. THE GENERAL CONTRACTOR SHALL REMOVE ALL UNUSED SWITCH PLATES, WIRING OR EQUIPMENT. ALL WIRES AND CONDUIT NOT COMPLETELY REMOVED TO THE SOURCE MUST TERMINATE IN A JUNCTION BOX WITH COVER AND APPROPRIATE INSULATORS SUFFICIENT TO MAINTAIN COMPLIANCE WITH APPLICABLE CODES.
10. ALL ITEMS GRAPHICALLY DEPICTED AS BEING DEMOLISHED SHALL BE REMOVED. THE KEY NOTES ARE A REFERENCE TO AID THE CONTRACTOR AND SHALL NOT BE INTERPRETED AS PRECISE INDICATIONS OF THE SCOPE OF DEMOLITION WORK DEPICTED IN THE DOCUMENTS.
11. THE REMOVAL AND LEGAL DISPOSAL OF ANY ASBESTOS SHALL BE THE RESPONSIBILITY OF THE 'LANDLORD' IF ANY ASBESTOS IS FOUND'. THE GENERAL CONTRACTOR SHALL RECEIVE THE BUILDING AFTER ASBESTOS ABATEMENT HAS CONCLUDED.
12. SHOULD CONFUSION EXIST RELATIVE TO THE REMOVAL OF SPECIFIC ITEMS OR THE RE-USE OF SAME, CONTACT THE AUTOZONE FIELD PROJECT MANAGER FOR INSTRUCTIONS.

EXTERIOR DEMOLITION NOTES

- (A) REMOVE INDICATED SECTIONS OF EXISTING STOREFRONT WALL TO ALLOW FOR THE INSTALLATION OF NEW DOOR/GLAZING
- (B) REMOVE EXISTING DOORS/GLAZING. PATCH AND PREPARE OPENING FOR INSTALLATION OF NEW STOREFRONT ENTRY/GLAZING TO MATCH EXISTING.
- (C) EXISTING DEMISING WALL TO REMAIN
- (D) EXISTING SIDEWALK TO REMAIN
- (E) EXISTING 10'-0" x 10'-0" OVERHEAD DOOR TO REMAIN, SERVICE TO "LIKE-NEW" CONDITION
- (F) REMOVE TRASH COMPACTOR PAD/EQUIPMENT & EXISTING ASPHALT AS SHOWN, PREP FOR NEW TRASH ENCLOSURE, REFER TO C-2 & STRUCTURAL
- (G) EXISTING RTU'S TO BE REMOVED, REFER TO MECHANICAL FOR FURTHER INFORMATION. EXISTING ROOF OPENING TO BE REWORKED FOR NEW RTU'S, REFER TO STRUCTURAL
- (H) REMOVE EXISTING ROOF EXHAUST ITEMS
- (I) EXISTING EXTERIOR DOOR/DOORS TO BE REMOVED, DOOR FRAME TO REMAIN, PREP FOR NEW DOOR/DOORS
- (J) EXISTING GAS METER TO REMAIN
- (K) EXISTING ELECTRICAL DISCONNECT/METER TO REMAIN
- (L) EXISTING EXTERIOR COLUMN TO REMAIN
- (M) EXISTING EXTERIOR (LANDLORD) SOFFIT/LIGHTING TO REMAIN
- (N) EXISTING EXTERIOR LIGHTING TO REMAIN
- (O) EXISTING ADA RAMP TO REMAIN
- (P) EXISTING BOLLARD TO REMAIN
- (P1) EXISTING BOLLARD TO BE REMOVED
- (Q) EXISTING LANDING TO REMAIN, PROTECT DURING CONSTRUCTION
- (R) EXISTING EXTERIOR WALL TO REMAIN, PREP FOR NEW PAINT
- (S) EXISTING GAS PIPING ON ROOF TO REMAIN
- (T) EXISTING FIRE SPRINKLER RISER TO REMAIN
- (U) EXISTING WATER SERVICE/METER TO REMAIN
- (V) EXISTING STOREFRONT GLAZING TO REMAIN, PROTECT DURING CONSTRUCTION
- (W) EXISTING ROOF CURBS TO BE REMOVED & ROOF OPENING TO BE REWORKED FOR NEW RTU'S, REFER TO STRUCTURAL
- (X) EXISTING PARKING SPACES TO REMAIN
- (Y) EXISTING HANDICAPPED PARKING SPACES TO REMAIN
- (Z) EXISTING ACCESS AISLE TO REMAIN

INTERIOR DEMOLITION NOTES

- (1) REMOVE ALL EXIST. PHONE LINES, EXPOSED CONDUIT, ALARM WIRES AND DETECTORS, ELECTRIC PANELS, SPEAKERS, WIRING, ETC. NOT NOTED FOR REUSE.
- (2) REMOVE ALL EXIST. WALLS, DOORS, FALSE FLOORS AND STEPS NOT NOTED FOR REUSE.
- (3) REMOVE ALL FLOORING & ADHESIVE THROUGHOUT LEASE SPACE
- (4) REMOVE EXISTING CEILING GRID AND TILE
- (5) REMOVE EXISTING LIGHT FIXTURES AND LAMPS
- (6) REMOVE ALL EXISTING DUCTWORK AND DIFFUSERS
- (7) EXISTING ELECTRIC SERVICE/PANELS TO REMAIN, REFER TO ELECTRICAL SHEETS
- (8) REMOVE EXIST. SLATWALL, PANELING AND ALL FOREIGN MATERIALS FROM EXISTING WALLS.
- (9) PATCH, REPAIR OR REMOVE ANY DAMAGED GYPSUM BOARD ON WALLS OR COLUMNS.
- (10) REMOVE ALL EXISTING RESTROOM WALLS, PLUMBING FIXTURES, WATER HEATER, ETC. CAP ALL EXISTING SEWER AND WATER LINES, NOT NOTED FOR REUSE
- (11) REMOVE EXISTING MILLWORK CABINETS & SINK
- (12) REMOVE EXISTING EXHAUST ITEMS
- (13) REMOVE COLUMN ENCLOSURE
- (14) EXISTING STEEL COLUMN TO REMAIN
- (15) REMOVE EXISTING DUCTWORK, T-STATS, RETURN & SUPPLY GRILLES COMPLETELY
- (16) REMOVE EXISTING SHEAR WALL AS SHOWN, REFER TO STRUCTURAL
- (17) EXISTING INTERIOR SHEAR WALL TO REMAIN
- (18) EXISTING FIRE SPRINKLER RISER TO REMAIN
- (19) EXISTING INTERIOR WALL AS SHOWN
- (20) EXISTING WATER SERVICE TO REMAIN, REFER TO PLUMBING
- (21) SURVEY, TELEVISE & LOCATE EXISTING UNDER-SLAB WASTEWATER PIPING AT TENANT SPACE & PREP
- (22) SAW-CUT, DEMO & REMOVE SLAB AND EXPOSE WASTEWATER CONNECTION FOR NEW RESTROOM, THIS LOCATION
- (23) EXISTING FIRE SPRINKLER INSPECTOR TEST TO REMAIN, PROTECT DURING CONSTRUCTION
- (24) EXISTING ROOF DRAIN TO REMAIN, PROTECT DURING CONSTRUCTION
- (25) EXISTING OPENING THRU SHEAR WALL TO REMAIN

R. Gary Glueck
Architecture
Planning

City of Puyallup
Development & Permitting Services
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Engineering	Public Works
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3797 Loop Road
Nashville, NC 27856
Phone: 252-459-5900

4862 REGISTERED ARCHITECT
ROBERT GARY GLUECK
STATE OF WASHINGTON
3 FEB 26

ROBERT GARY GLUECK
STATE OF WASHINGTON
LICENSE NUMBER: #4862
EXPIRES: 1/6/2027

Plans and Specifications for the

AUTOZONE

AutoZone Store No. 10668
4423 SOUTH MERIDIAN
PUYALLUP, WA 98373

PRCTI20251723

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123 SOUTH FRONT STREET
MEMPHIS, TN 38103
TEL. 901-495-7625
CONTACT: KEVIN MURPHY

DRAWING HISTORY:

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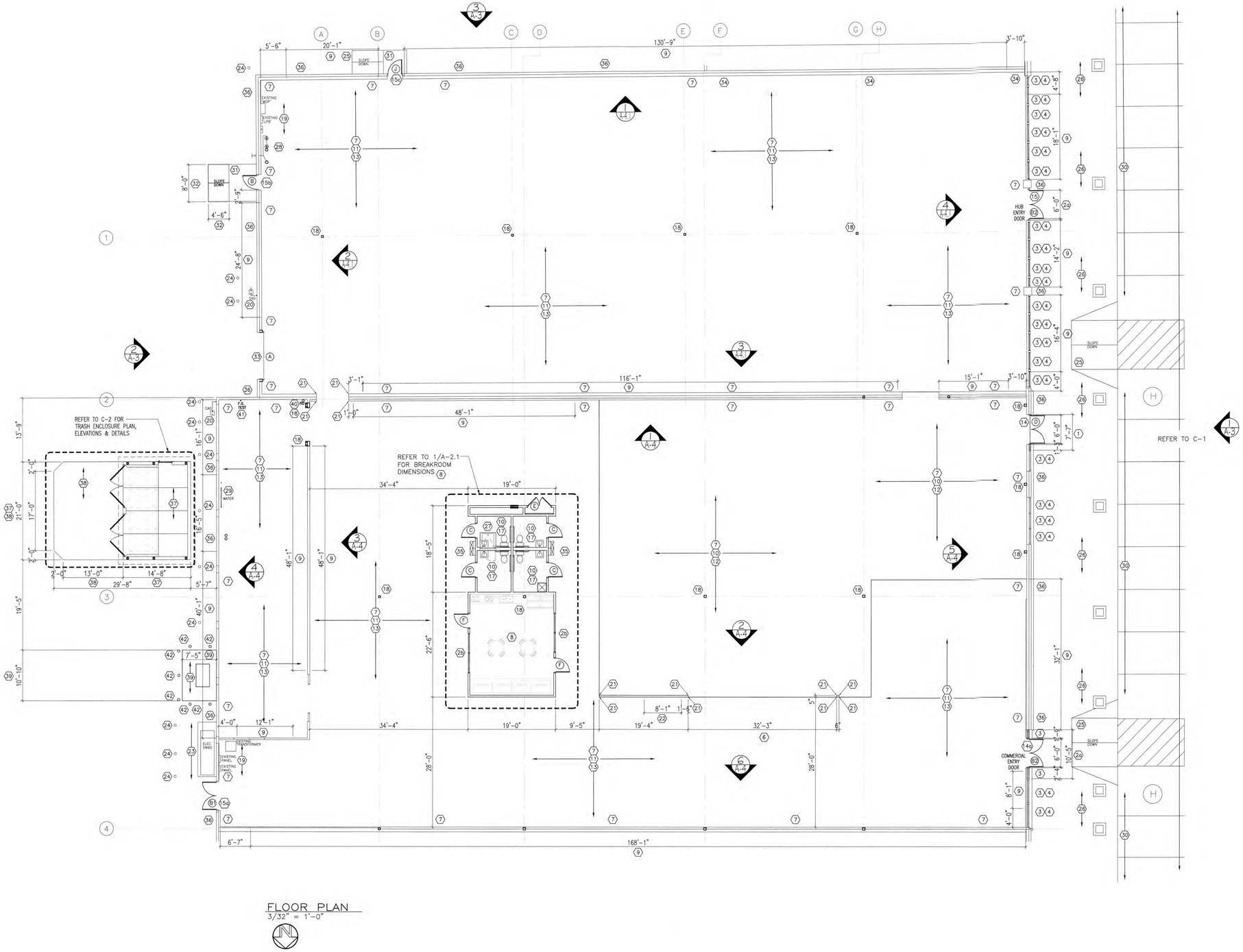
ISSUED FOR AUTOZONE REVIEW	11/24/2025
ISSUED FOR PERMIT	11/24/2025
1 REVISED FOR PERMIT	02/02/2026

DRAWN BY: CADD
CHECKED BY: RGG
DATE: 11/24/2025

DEMOLITION PLAN NOTES/ DETAILS

PROJECT	SHEET NO.
4406	D-1



FLOOR PLAN
3/32" = 1'-0"

STOREFRONT / EXTERIOR WALL NOTES

(1) PROVIDE AND INSTALL NEW ALUMINUM ENTRANCE DOORS, FRAMING, AND RELATED HARDWARE TO MATCH EXISTING STOREFRONT, DOOR TYPE D
(2a) PROVIDE AND INSTALL NEW ALUMINUM FRAMING AND RELATED HARDWARE TO MATCH EXISTING. NEW DOORS TO BE HOLLOW METAL DOORS, TYPE B2
(2b) PROVIDE AND INSTALL NEW MULLION / GLAZING SYSTEM FOR BREAK ROOM, REFER TO SHEET A-2.1
(3) CONSTRUCT PARTITION BEHIND STOREFRONT 4" METAL STUDS, R13 INSULATION & 1/2" GYPSUM BOARD. APPLY BLACK FILM ON INSIDE OF THE GLASS. HOLD 1" FROM FRAME EDGES. REFER TO DETAIL #1.
(4) EXISTING STOREFRONT GLAZING SYSTEM TO REMAIN

INTERIOR WALLS NOTES

~~(5) CONSTRUCT NEW PARTITION, 4" 20 GA. METAL STUDS, R13 INSULATION & 1/2" GYPSUM BOARD~~
(6) CONSTRUCT NEW CURTAIN WALL AND PARTITION PER PLAN AND DETAIL ON SHEET A-2.
(7) PATCH INTERIOR WALLS AS REQUIRED TO PROVIDE FLAT SMOOTH PAINTABLE SURFACE. PROVIDE AND INSTALL NEW DRYWALL, ONLY WHERE REQUIRED TO MATCH EXISTING SURROUNDING WALL SURFACES. ALL NEW FINISHES TO BE 'FLUSH' WITH EXISTING.
(8) NEW BREAK ROOM, REFER TO SHEET A-2.1
(9) FOR NEW GYPSUM BOARD AND STUD WALLS INSTALL 6" WIDE x 20 GAUGE STEEL STRIP ON THE FACE OF STUD BEHIND GYPSUM BOARD, CENTER STRIP 90" A.F.F. INSTALL STRIP BOTH SIDES OF DROPPED CURTAINWALL ON EXISTING WALLS INSTALL WOOD 1"x4" HORIZONTAL BEHIND ALL FIXTURES. TOP OF WOOD TO BE 90" A.F.F.

FLOORING NOTES

(11a) FILL HOLES AND CRACKS IN EXISTING FLOOR, PRESSURE CLEAN AND APPLY LEVELLER AS SPECIFIED. FINISHED FLOOR TO BE LEVEL WITHIN 1/8" PER 10' PLUS/MINUS NON-CUMULATIVE.
(11) NO FLOOR PREP WORK, OTHER THAN IN NEW RESTROOM AREA, WILL BE REQUIRED IN THIS REAR AREA. REFER TO SHEET A-2 FOR FLOOR COVERINGS AND SPECIFICATIONS. VERIFY CONDITION LANDLORD WILL LEAVE FLOOR.
(12) INSTALL NEW FLOOR TILE THIS AREA TO MATCH EXISTING REMAINING TILE. SEE SPECIFICATIONS SECTION 09660 FOR ADDITIONAL REQUIREMENTS.
(13) EXISTING CONCRETE FLOOR TO BE SEALED, SEE SPECIFICATION BOOK

DOORS NOTES (SEE SPECIFICATIONS FOR HARDWARE)

(14) INSTALL NEW (2) 3'-0" X 7'-0" GLASS & ALUMINUM DOOR AND RELATED HARDWARE – DOOR TYPE D
(14a) NEW (2) 3'-0" x 7'-0" DOOR IN NEW STOREFRONT 6'-4" W x 7'-2" H DOOR FRAME IN OPENING FOR NEW COMMERCIAL DOORS, COMMERCIAL DOORS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR – DOOR TYPE B2
(15) NEW (2) 3'-0" x 7'-0" DOOR IN EXISTING 6'-4" W x 7'-2" H DOOR FRAME IN EXISTING OPENING FOR NEW HUB DOORS, HUB DOORS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR – DOOR TYPE B2
(15a) NEW (2) 3'-0" x 7'-0" DOOR IN EXISTING 6'-4" W x 7'-2" H DOOR FRAME IN EXISTING OPENING FOR NEW MAN DOORS, MAN DOORS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR – DOOR TYPE B1
(16a) NEW 3'-0" x 7'-0" DOOR IN EXISTING 3'-4" W x 7'-2" H DOOR FRAME IN EXISTING OPENING FOR NEW MAN DOOR, MAN DOOR PROVIDED AND INSTALLED BY GENERAL CONTRACTOR – DOOR TYPE B
(16b) NEW 3'-0" x 7'-0" DOOR IN EXISTING 3'-4" W x 7'-2" H DOOR FRAME IN EXISTING OPENING FOR NEW MAN DOOR, MAN DOOR PROVIDED AND INSTALLED BY GENERAL CONTRACTOR – DOOR TYPE J
~~(16) NEW 3'-4" W X 7'-2" H NEW OPENING FOR MAN DOOR, SEE STRUCTURAL SHEETS. SEE A-2 FOR MAN DOOR PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.~~

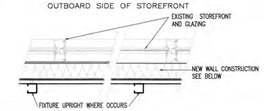
RESTROOMS NOTES

(17) CONSTRUCT (2) A.D.A. HANDICAP RESTROOMS, REFER TO SHEET A-2 FOR ENLARGED PLANS AND ELEVATIONS. SEE SHEET P-1 FOR PLUMBING LAYOUT AND RISER DETAILS. CONNECT TO NEAREST ACCESSIBLE LOCATION TO EXISTING SANITARY SEWER LINE. VERIFY 'FALL' TO BE ADEQUATE PRIOR TO BIDDING THE WORK.
1. CONSTRUCT NEW PARTITION WALL FOR RESTROOMS FROM FLOOR TO CEILING. TIE TO BAR JOIST AS REQUIRED FOR STABILITY.
2. SAWCUT EXISTING SLAB AS REQUIRED TO PROVIDE FOR NECESSARY EXTENSION OF THE EXISTING SANITARY SEWER LINE TO LOCATION OF EACH NEW PLUMBING FIXTURE. FIELD VERIFY EXACT LOCATION, FLOW LINE, AND FALL OF EXISTING SANITARY SEWER LINE. CONFIRM LOCATION IN ADVANCE.
3. COMPACT AND FILL ALL NEW OPENINGS WITH CONCRETE AS REQUIRED TO MATCH EXISTING FLOOR ELEVATION LEVEL AND SMOOTH.
4. PROVIDE NEW WATER SERVICE AND METER AS PER LOCAL UTILITY COMPANY.

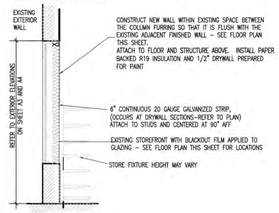
MISC. PLAN NOTES

(18) EXISTING COLUMN TO REMAIN, PAINT RED
(19) EXISTING ELECTRICAL PANEL LOCATION. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
(20) GAS METER LOCATION. REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
(21) INSTALL ALUMINUM CORNER GUARD 3"w. X 8'h. AT OUTSIDE CORNER OF GYPSUM BOARD WALLS.
(22) 8'x8' BLACK FRP TO BE INSTALLED BEHIND BATTERY STATION.
(23) EXISTING ELECTRICAL SERVICE (ELECT METER & DISCONNECTS, REFER TO E-SHEETS
(24) EXISTING BOLLARD TO REMAIN, PAINT RED
(25) EXISTING ADA RAMP TO REMAIN
(26) EXISTING SIDEWALK TO REMAIN
(27) NEW ROOF HATCH, REFER TO STRUCTURAL SHEETS
(28) EXISTING FIRE SPRINKLER RISER TO REMAIN
(29) EXISTING WATER METER/SERVICE TO REMAIN
(30) EXISTING CONCRETE CURB TO REMAIN
(31) EXISTING CONCRETE LANDING TO REMAIN
(32) NEW CONCRETE RAMP REQUIRED AT EXISTING LANDING, SLOPE RAMP TO BE 1:12 MINIMUM
(33) EXISTING 10'-0" x 10'-0" OVERHEAD DOOR TO REMAIN, SERVICE TO 'LIKE-NEW'
(34) PATCH DEMISING WALLS AS REQUIRED TO PROVIDE FLAT SMOOTH PAINTABLE SURFACE. PROVIDE AND INSTALL NEW DRYWALL, ONLY WHERE REQUIRED TO MATCH EXISTING SURROUNDING WALL SURFACES. ALL NEW FINISHES TO BE 'FLUSH' WITH EXISTING
(35) PATCH BACK ALL CONCRETE FLOORS AS NEW/DOWEL INTO EXISTING CONCRETE W/ #4x12" REBAR @ 12" O.C. AT NEW RESTROOM
(36) EXISTING EXTERIOR WALL TO REMAIN, PREP FOR NEW PAINT
(37) NEW TRASH ENCLOSURE, REFER TO SHEET C-2 & STRUCTURAL SHEET TE01 FOR FURTHER INFORMATION
(38) NEW TRASH ENCLOSURE APRON, REFER TO SHEET C-2 & STRUCTURAL SHEET TE01 FOR FURTHER INFORMATION
(39) NEW GENERATOR, CAGE & CONCRETE PAD, REFER TO ELECTRICAL & STRUCTURAL
(40) EXISTING ROOF DRAIN TO REMAIN, PROTECT DURING CONSTRUCTION
(41) EXISTING FIRE SPRINKLER INSPECTION TEST TO REMAIN, PROTECT DURING CONSTRUCTION
(42) NEW BOLLARD FOR NEW GENERATOR PROTECTION, REFER TO ELECTRICAL

OUTBOARD SIDE OF STOREFRONT



A PLAN VIEW SECTION



WALL SECTION

A-1 WALL IN-FILL AT FIXTURES
1/4" = 1'-0"

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4862 REGISTERED ARCHITECT ROBERT GARY GLUECK STATE OF WASHINGTON
3 FEB 26

ROBERT GARY GLUECK
STATE OF WASHINGTON
LICENSE NUMBER: #4862
EXPIRES: 1/6/2027

Plans and Specifications for the
AUTOZONE
AutoZone Store No. 10668
4423 SOUTH MERIDIAN
PUYALLUP, WA 98373

PRCTI20251723

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CONTACT: KEVIN MURPHY

DRAWING HISTORY:

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1 REVISED FOR PERMIT	02/02/2026

DRAWN BY: CADD
CHECKED BY: RGG
DATE: 11/24/2025

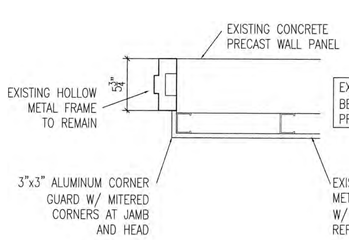
FLOOR PLAN/ KEYNOTES

PROJECT	SHEET NO.
4406	A-1

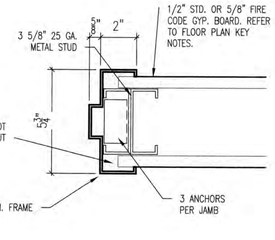
DOOR SCHEDULE

MARK	LOCATION	SIZE	TYPE	FRAME	JAMB DET.	HEAD DET.	REMARKS
A	OVERHEAD DOOR	10'-0"x10'-0"	EXISTING	EXISTING			EXISTING OVERHEAD DOOR TO REMAIN, SERVICE DOOR TO "LIKE-NEW" CONDITION
B	EMERGENCY EXIT	3'-0"x7'-0"x 1"-3/4"	HOLLOW METAL	EXISTING	6/A2	6/A2 SIM.	NEW HOLLOW METAL DOOR/HARDWARE TO BE INSTALLED IN EXISTING HOLLOW METAL FRAME, REPLACE DOOR FRAME IF REQUIRED
B1	EMERGENCY EXIT	(2)3'-0"x7'-0"x 1"-3/4"	HOLLOW METAL	EXISTING	6/A2	6/A2 SIM.	NEW HOLLOW METAL DOOR/HARDWARE TO BE INSTALLED IN EXISTING HOLLOW METAL FRAME, REPLACE DOOR FRAME IF REQUIRED
B2	HUB/COMMERCIAL DOOR	(2)3'-0"x7'-0"x 1"-3/4"	HOLLOW METAL	EXISTING			HUB ENTRY DOOR TO BE INSTALLED IN EXISTING STOREFRONT FRAME
				STOREFRONT			COMMERCIAL ENTRY DOOR TO BE INSTALLED IN NEW STOREFRONT FRAME
C	RESTROOM DOOR	3'-0"x7'-0"x 1"-3/4"	S.C. WOOD	HOLLOW METAL	5/A2	5/A2 SIM.	UNDER CUT DOOR 1"
D	ENTRANCE DOOR	(2)3'-0"x7'-0" x1"-3/4"	ALUMINUM W/ GLASS	EXISTING			PAIRED DOORS ARE USED THEY MUST HAVE THREE POINT LOCKING ENTRY DOORS TO MATCH EXISTING
E	PHONE ROOM	(2)3'-0"x7'-0"x 1"-3/4"	S.C. WOOD	HOLLOW METAL	5/A2	5/A2 SIM.	UNDER CUT DOOR 1"
F	BREAK ROOM	3'-0"x7'-0"x 1"-3/4"	S.C. WOOD	HOLLOW METAL	5/A2	5/A2 SIM.	UNDER CUT DOOR 1"
J	SINGLE EXTERIOR DOOR	3'-0"x7'-0"x 1"-3/4"	HOLLOW METAL	EXISTING	6/A2	6/A2 SIM.	NEW HOLLOW METAL DOOR/HARDWARE TO BE INSTALLED IN EXISTING HOLLOW METAL FRAME, REPLACE DOOR FRAME IF REQUIRED

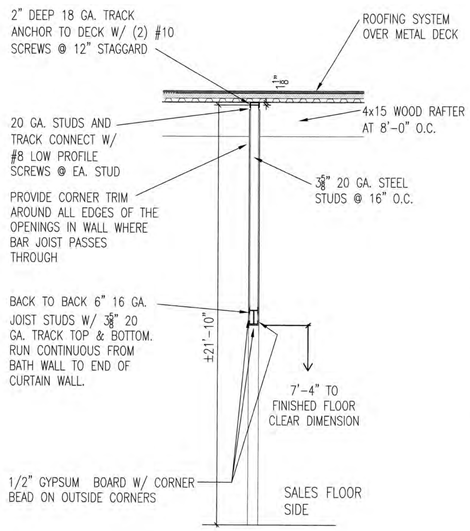
NOTE: NOT ALL DOORS MAY BE USED SEE FLOOR PLAN FOR LOCATIONS AND TYPES



5/A-2.0 HOLLOW METAL FRAME – BLOCK
1 1/2" = 1'-0"



5/A-2.0 HOLLOW METAL FRAME – DRYWALL
3" = 1'-0"



NOTE: INSTALL 6" WIDE, 20GA. METAL STRIP HORIZONTALLY BOTH SIDES OF WALL BEHIND GYP.BD. ATTACH TO HORIZONTAL TRACK AT 16" O.C. AND EACH STUD, CENTER OF STRIP TO BE 90" A.F.F.

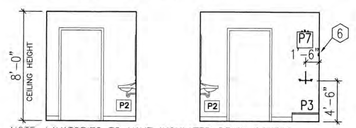
4/A-2.0 CURTAIN WALL
1/4" = 1'-0"

P1	TOILET	P5	NOT USED
P2	LAVATORY	P6	NOT USED
P3	MOP SINK	P7	WATER HEATER
P4	ELECTRIC DRINKING FOUNTAIN	P8	BACKFLOW PREVENTOR NOTE: WATER HEATER FURNISHED BY AUTOZONE

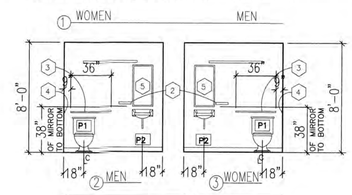
RESTROOM ELEVATION KEYNOTE

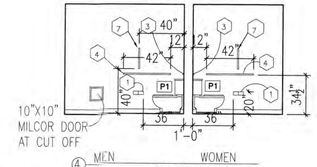
1. TOILET PAPER HOLDER–INTERDESIGN : (WHITE)
2. PAPER TOWEL HOLDER–INTERDESIGN : (WHITE)
3. 36" GRAB BAR–BOBRICK–#B–5806 x 36
4. 42" GRAB BAR–BOBRICK–#B–5806 X 42 .
5. MIRROR–18"X36"H. FRAMED GLASS–BOBRICK #B–165
6. MOP HOLDER–BOBRICK #B–223 X 24" LONG.
7. 18" GRAB BAR–BOBRICK–#B–5806 x 18

INTERDESIGN AVAILABLE FROM: RESOURCE MAINTENANCE INC. TEL. 704–792–1255 ATTN: THOMAS N. BOOE



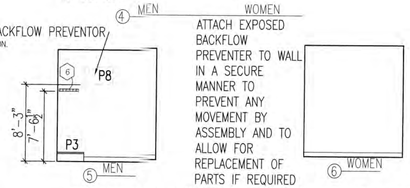
NOTE: LAVATORIES TO HAVE INSULATED DRAIN COVERS





10"X10" MILCOR DOOR AT CUT OFF

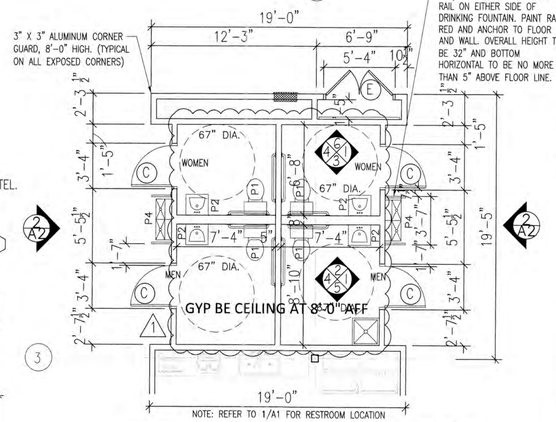
4 MEN WOMEN



NOTE: RESTROOMS AS DESIGNED ARE IN COMPLIANCE WITH CURRENT AMERICAN DISABILITIES ACT STANDARDS AND GUIDELINES. NOTIFY THE PROJECT MANAGER ON ANY LOCAL ADMENDMENTS FOR ADDITIONAL COMPLIANCE.
NOTE: CAULK AROUND ALL FIXTURES WITH WHITE SEALANT

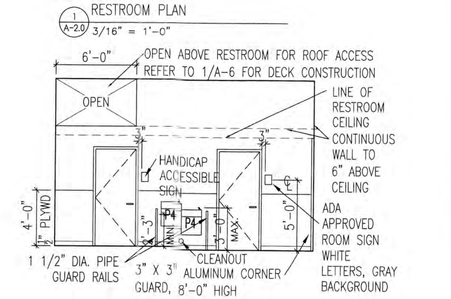
3/A-2.0 RESTROOM ELEVATIONS
3/16" = 1'-0"

NOTE: INTERIOR RESTROOM WALL SURFACES TO BE COVERED WITH GENERAL PURPOSE "FRP" BOARD, TEXTURED, COLOR WHITE.
NOTE: INTERIOR CEILING HEIGHT = 8'-0". CEILING TO BE SUSPENDED ½" GYPSUM BOARD PAINTED WHITE. INSTALL SOUND INSULATION ABOVE BATHROOM CEILING.
NOTE: INSTALL 1/2" CD PLYWOOD TO 4' ABOVE FLOOR AROUND EXTERIOR OF RESTROOMS, PAINT RED.
NOTE: INSTALL SEALANT BETWEEN MOP SINK AND ALL ADJOINING SURFACES.



NOTE: WALL CONSTRUCTION= 16 GA. 3-5/8" METAL STUDS AT 16" O.C., 1/2" GYPSUM BOARD BOTH SIDES WHERE REQUIRED, SOUND BATT INSULATION TO 8'-0" HIGH, FINISHED GYPSUM BOARD SURFACES TO 6" ABOVE MAIN CEILING. IF NO CEILING IN STORE RUN PERRIMETER WALLS AND FINISH TO UNDERSIDE OF EXPOSED STRUCTURE.

1/A-2.0 RESTROOM PLAN
3/16" = 1'-0"



2/A-2.0 RESTROOM EXTERIOR ELEVATION
3/16" = 1'-0"

[2021 Washington State Building Code, section 1101.2.6 (ICC A117.1 Section 703.6.3.1)]
International Symbol of Accessibility.
Where the International Symbol of Accessibility is required, it shall be proportioned complying with ICC A117.1 Figure 703.6.3.1. All interior and exterior signs depicting the International Symbol of Accessibility shall be white on a blue background.

[ICC A117.1 Section 404.2.6.1]
Door & Gate Hardware Height
Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the floor. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

RESTROOM NOTES

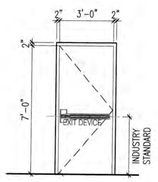
1. FOR NEW RESTROOM CONSTRUCTION, FRAME WALLS AND CEILINGS WITH 3 5/8" METAL STUDS 16" ON CENTER. PROVIDE ALL WOOD BLOCKING AS NECESSARY TO ADEQUATELY SUPPORT ALL RESTROOM ACCESSORIES. SEE PLANS AND ELEVATIONS THIS SHEET FOR DETAILS.
2. APPLY 1/2" GYPSUM BOARD TO ALL WALLS AND CEILING. TAPE, BED AND SAND SMOOTH.
3. APPLY WHITE FRP BOARD, .090 THICKNESS, TO ALL INTERIOR WALLS AND WALLS AROUND MOP SINK FULL HEIGHT.
4. PROVIDE 3" X 3" ALUMINUM CORNER GUARD, 8'-0" HIGH AT ALL EXPOSED CORNERS.
5. REFER TO SHEET P–1 FOR ALL PLUMBING DETAILS AND NOTES.
6. FOR EXISTING RESTROOMS, REFER TO SHEET A–1 FOR THE OVERALL SCOPE OF WORK AND THIS SHEET FOR SPECIFIC DETAILS.

DOOR (B) SINGLE EXTERIOR DOOR

DOOR: 18 GAUGE BONDERIZED STEEL PERMANENTLY BONDED TO RIGID POLYSTYRENE FOAM CORE. SEAMLESS FACES AND EDGES, G90.
FRAME: EXISTING HOLLOW METAL DOOR FRAME TO REMAIN. PREP FOR NEW DOORS/HARDWARE. REPLACE DOOR FRAME AS REQUIRED, VERIFY IN FIELD
HINGES: (1-1/2) PAIR 4-1/2"x4-1/2" HAGER BB1279-USP-NRP, 0.134" GAUGE FOR DOORS 42" AND WIDER: USE 2 PAIR OF HINGES.
EXIT DEVICE: DETEX EXIT DEVICE, WITH ALARM AND OUTSIDE TRIM. FURNISHED BY AUTOZONE. CONTRACTOR INSTALLED.
CLOSER: LCN 4040XP-72MC-629A-3077EDA, PARALLEL ARM, TB, ALUM., METAL PLATED US26D. HURRICANE LABELED IF REQUIRED BY CODE. PROVIDE ALL ACCESSORIES FOR PROPER INSTALLATION.

VIEWER: 185 DEGREES, SOLID BRASS, HAGER 1756 US26D CENTERED IN DOOR 5'-0" ABOVE FLOOR
WEATHERSTRIP: NGP 160S - 36x84 FULL PERIMETER
THRESHOLD: NGP 429HD - OPENING WIDTH
DOOR SWEEP: NGP 101VA - ANODIZED ALUMINUM
DRIP CAP: NGP 16A - ANOD. ALUM. - FRAME WIDTH
LOCK GUARD: IVES LG10-630 - STAINLESS
KICK-DOWN HOLDERS: IVES FS 45S US26D
SILENCERS: IVES SR64 - (3) PER STRIKE SIDE OF FRAME.

NOTES FOR FRAME REPLACEMENT:
1. USE HEAVY DUTY HINGES IF EXISTING DOOR HINGES BEING REPLACED ARE HD TO AVOID ADDITIONAL PREPPING.
2. REPAIR (BONDO), SAND, PRIME, PAINT FRAME.
3. FOR CMU WALLS - VERIFY BLOCK COURSE. ADJUST DOOR HEIGHT IF REUSING EXISTING FRAME.
4. PROVIDE 2" OR 4" FRAME HEADER TO MATCH BLOCK COURSE. FIELD VERIFY.



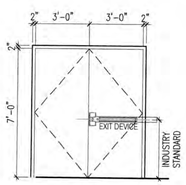
7/A-2.0 EMERGENCY EXIT DOOR

DOOR (B1) DOUBLE EXTERIOR DOOR

DOOR: 18 GAUGE BONDERIZED STEEL PERMANENTLY BONDED TO RIGID POLYSTYRENE FOAM CORE. SEAMLESS FACES AND EDGES, G90.
FRAME: EXISTING DOOR FRAME TO REMAIN, REPLACE AS REQUIRED
HINGES: (2) PAIR 4-1/2"x4-1/2" HAGER BB1279-USP-NRP, 0.134" GAUGE MATCH EXISTING NUMBER AND GAUGE IF RE-USING EXISTING FRAME.
EXIT DEVICE: DETEX EXIT DEVICE, WITH ALARM AND OUTSIDE TRIM. SIZED FOR 48" DOOR. FURNISHED BY AUTOZONE. CONTRACTOR INSTALLED.
CLOSER: LCN 4040XP-72MC-629A-3077EDA, PARALLEL ARM, TB, ALUM., METAL PLATED US26D. USE HEAVIER DUTY MODEL IF REQUIRED FOR 48" DOORS. HURRICANE LABELED IF REQUIRED BY CODE. PROVIDE ALL ACCESSORIES FOR PROPER INSTALLATION.

VIEWER: 185 DEGREES, SOLID BRASS, HAGER 1756 US26D CENTERED IN DOOR 5'-0" ABOVE FLOOR
WEATHERSTRIP: NGP 160S - 36x84 FULL PERIMETER
THRESHOLD: NGP 429HD - OPENING WIDTH
DOOR SWEEP: NGP 101VA - ANODIZED ALUMINUM
DRIP CAP: NGP 16A - ANOD. ALUM. - FRAME WIDTH
LOCK GUARD: IVES LG10-630 - STAINLESS
KICK-DOWN HOLDERS: IVES FS 45S US26D
SILENCERS: IVES SR64 - (3) PER STRIKE SIDE OF FRAME.

NOTES FOR FRAME REPLACEMENT:
1. USE HEAVY DUTY HINGES IF EXISTING DOOR HINGES BEING REPLACED ARE HD TO AVOID ADDITIONAL PREPPING.
2. REPAIR (BONDO), SAND, PRIME, PAINT FRAME.
3. FOR CMU WALLS - VERIFY BLOCK COURSE. ADJUST DOOR HEIGHT IF REUSING EXISTING FRAME.
4. PROVIDE 2" OR 4" FRAME HEADER TO MATCH BLOCK COURSE. FIELD VERIFY.



8/A-2.0 EMERGENCY EXIT DOOR – DOUBLE DOOR

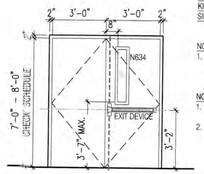
DOOR (B2) NEW DOUBLE EXTERIOR DOOR

DOOR: 18 GAUGE BONDERIZED STEEL PERMANENTLY BONDED TO RIGID POLYSTYRENE FOAM CORE. SEAMLESS FACES AND EDGES, G90
FRAME: NEW STOREFRONT FRAMING & EXISTING STOREFRONT FRAMING AS OPENING, REFER TO DOOR SCHEDULE & A-1
VISION GLASS: NON-RATED: N634 - NATIONAL GUARD PRODUCTS (NGP) I-FRA100-SP. FACTORY FINISHED COLOR GBL-GLOSS BLACK, 5/8" WIRED INSULATED TEMPERED GLASS. FL, TX, LA, MS, AL, IF WINDSTORM-RATING IS REQD: N634 - NGP STORM-PRO-HR, FACTORY FINISHED, COLOR GBL-GLOSS BLACK, 5/8"WIRED INSULATED TEMPERED GLASS.
HINGES: (3) PAIR 4-1/2"x4-1/2" HAGER BB1279-USP-NRP, 0.134" GAUGE (DOOR HEIGHT UP TO 7'-0"). (4) PAIR 4-1/2"x4-1/2" HAGER BB 1279-USP-NRP, 0.134" GAUGE (DOOR HEIGHT UP TO 9'-0").
EXIT DEVICE: (ACTIVE LEAF) - DETEX EXIT DEVICE, WITH CONCEALED RODS, ALARM, OUTSIDE TRIM AND CYLINDER, ELECTRONIC BOLT RETRACTION. 87-EUV-03CV-626-EA-ED-KS-36"-EC1-FC3-SLR. FURNISHED BY AUTOZONE. CONTRACTOR INSTALLED.
CLOSER: (2) LCN 4040XP-72MC-629A-3077EDA, PARALLEL ARM, TB, ALUM., METAL PLATED US26D. HURRICANE LABELED IF REQUIRED BY CODE. PROVIDE ALL ACCESSORIES FOR PROPER INSTALLATION.
POWER SUPPLY: DETEX 83-800

WEATHERSTRIP: NGP 160S - 72x84 FULL PERIMETER.
THRESHOLD: NGP 429HD - OPENING WIDTH.
DOOR SWEEP: (2) NGP 101VA - ANODIZED ALUMINUM.
DRIP CAP: NGP 16A - ANOD. ALUM. - FRAME WIDTH.
KICK-DOWN HOLDERS: (2) IVES FS 45S US26D
SILENCERS: IVES SR64 - (3) PER STRIKE SIDE OF FRAME.

NOTES:
1. KEYSWITCH TO RELEASE RODS - BY AUTOZONE ALARM SERVICES, TO BE INSTALLED PRIOR TO SUBSTANTIAL COMPLETION. GC TO COORDINATE TIMING.

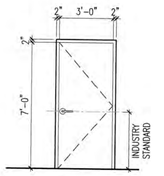
NOTES FOR FRAME REPLACEMENT:
1. PROVIDE 2" OR 4" FRAME HEADER TO MATCH BLOCK COURSE. FIELD VERIFY.
2. USE HEAVY DUTY HINGES IF EXISTING DOOR HINGES BEING REPLACED ARE HD TO AVOID ADDITIONAL PREPPING.



7/A-2.0 COMMERCIAL/HUB ENTRY DOOR – DOUBLE

DOOR (C) RESTROOM DOORS

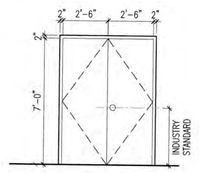
DOOR: FLUSH, SOLID CORE, AWI-PCS. SEE SPECS.
FRAME: 16 GAUGE CRS, KNOCK DOWN TYPE WITH MITER AND WELDED CORNERS. GROUND SMOOTH. PREPARE FRAME TO RECEIVE (3) SILENCERS. VERIFY AND COORDINATE ALL HARDWARE FOR PREPPING.
HINGES: (3) PAIR 4-1/2"x4-1/2" HAGER HEAVY DUTY BB1168-USP-NRP, 0.180" GAUGE
LOCKSET: PRIVACY LOCKSET, CYLINDRICAL, GRADE 2, ADA, HAGER 3540, US26D, WITN, ASA.
SIGNS: ADA TACTILE SIGNAGE, 6 INCHES BY 8 INCHES, BLUE WITH WHITE SYMBOL AND LETTERING. HAGER 368W FOR WOMEN, HAGER 368M FOR MEN. FOR CA, NY & CT - VERIFY SIGN COMPLIANCE AND PROVIDE ADDITIONAL REQUIRED SIGNAGE.
SILENCERS: IVES SR64 - (3) PER STRIKE SIDE OF FRAME.



12/A-2.0 RESTROOM DOOR

DOOR (E) PHONE CLOSET

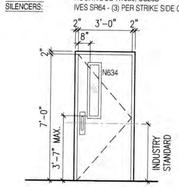
DOOR: FLUSH, SOLID CORE, AWI-PCS. SEE SPECS.
FRAME: 16 GAUGE CRS, KNOCK DOWN TYPE WITH MITER AND WELDED CORNERS. GROUND SMOOTH. PREPARE FRAME TO RECEIVE (3) SILENCERS. VERIFY AND COORDINATE ALL HARDWARE FOR PREPPING.
HINGES: (3) PAIR 4-1/2"x4-1/2" HAGER BB1279-USP-NRP, 0.134" GAUGE
LOCKSET: (ACTIVE LEAF) BEST 83T DEADLOCK WITH DEADBOLT AND TEMPORARY SFIC CORE. FURNISHED BY AUTOZONE. CONTRACTOR INSTALLED.
SURFACE BOLTS: (INACTIVE LEAF): BOLTS FURNISHED BY AUTOZONE, CONTRACTOR INSTALLED. ROCKWOOD 185-24-626, 24", MOUNTED AT TOP OF DOOR
SILENCERS: DON-JO 1578-626, 8", MOUNTED AT BOTTOM OF DOOR IVES SR64 - (2) AT TOP.



11/A-2.0 PHONE CLOSET DOOR

DOOR (F) SINGLE INTERIOR DOOR

DOOR: SOLID CORE. AWI-PCS. SEE SPECS.
FRAME: 16 GAUGE CRS, KNOCK DOWN TYPE WITH MITER AND WELDED CORNERS. GROUND SMOOTH. PREPARE FRAME TO RECEIVE (3) SILENCERS. VERIFY AND COORDINATE ALL HARDWARE FOR PREPPING.
VISION GLASS: NON-RATED: N634 - NATIONAL GUARD PRODUCTS (NGP) I-FRA100-SP. FACTORY FINISHED COLOR GBL-GLOSS BLACK, 1/4" TEMPERED GLASS.
HINGES: (1-1/2) PAIR 4-1/2"x4-1/2" HAGER HEAVY DUTY BB1168-USP-NRP, 0.180" GAUGE
LOCKSET: NON-RATED: PUSH-PULL PLATE - ROCKWOOD 107 x 738/738L CONCEALED MOUNT PUSH/PULL PLATE SET - 3-1/2"x15" W/ 3/4" ROUND PULL 8" CTC.
CLOSER: LCN 4040XP-72MC-629A-3077EDA, PARALLEL ARM, TB, ALUM., METAL PLATED US26D.
KICK DOWN: IVES FS 45S US26D
KICK PLATE: ROCKWOOD K1050, US26D
SILENCERS: IVES SR64 - (3) PER STRIKE SIDE OF FRAME.



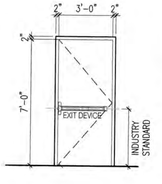
10/A-2.0 BREAK ROOM DOOR

DOOR (J) SINGLE EXTERIOR DOOR

DOOR: 18 GAUGE BONDERIZED STEEL PERMANENTLY BONDED TO RIGID POLYSTYRENE FOAM CORE. SEAMLESS FACES AND EDGES, G90.
FRAME: 16 GAUGE CRS, KNOCK DOWN TYPE WITH MITER AND WELDED CORNERS. GROUND SMOOTH. PREPARE FRAME TO RECEIVE (3) SILENCERS. VERIFY AND COORDINATE ALL HARDWARE FOR PREPPING. ATTACH TO CMU W/ (3) EXISTING MASONRY ANCHORS W/ EXPANSION BOLTS ON EACH SIDE.
HINGES: (1-1/2) PAIR 4-1/2"x4-1/2" HAGER BB1279-USP-NRP, 0.134" GAUGE FOR DOORS 42" AND WIDER: USE 2 PAIR OF HINGES.
EXIT DEVICE: DETEX EXIT DEVICE, NO ALARM. NO OUTSIDE TRIM. FURNISHED BY AUTOZONE. CONTRACTOR INSTALLED.
CLOSER: LCN 4040XP-72MC-629A-3077EDA, PARALLEL ARM, TB, ALUM., METAL PLATED US26D. HURRICANE LABELED IF REQUIRED BY CODE. PROVIDE ALL ACCESSORIES FOR PROPER INSTALLATION.

VIEWER: 185 DEGREES, SOLID BRASS, HAGER 1756 US26D CENTERED IN DOOR 5'-0" ABOVE FLOOR
WEATHERSTRIP: NGP 160S - 36x84 FULL PERIMETER
THRESHOLD: NGP 429HD - OPENING WIDTH
DOOR SWEEP: NGP 101VA - ANODIZED ALUMINUM
DRIP CAP: NGP 16A - ANOD. ALUM. - FRAME WIDTH
LOCK GUARD: IVES LG10-630 - STAINLESS
SILENCERS: IVES SR64 - (3) PER STRIKE SIDE OF FRAME.

NOTES FOR FRAME REPLACEMENT:
1. USE HEAVY DUTY HINGES IF EXISTING DOOR HINGES BEING REPLACED ARE HD TO AVOID ADDITIONAL PREPPING.
2. REPAIR (BONDO), SAND, PRIME, PAINT FRAME.
3. FOR CMU WALLS - VERIFY BLOCK COURSE. ADJUST DOOR HEIGHT IF REUSING EXISTING FRAME.
4. PROVIDE 2" OR 4" FRAME HEADER TO MATCH BLOCK COURSE. FIELD VERIFY.



13/A-2.0 SINGLE EXTERIOR DOOR

R. Gary Glueck
Architecture
Planning

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

3797 Loop Road
Nashville, NC 27856
Phone: 252-459-5900

4862 REGISTERED ARCHITECT ROBERT GARY GLUECK STATE OF WASHINGTON
3 FEB 26

ROBERT GARY GLUECK
STATE OF WASHINGTON
LICENSE NUMBER: #4862
EXPIRES: 1/6/2027

Plans and Specifications for the

AUTOZONE

AutoZone Store No. 10668
4423 SOUTH MERIDIAN
PUYALLUP, WA 98373

PRCTI20251723

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AT JOB SITE.

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AUTOZONE, INC.
123 SOUTH FRONT STREET
MEMPHIS, TN 38103
TEL: 901-495-7425
CONTACT: KEVIN MURPHY

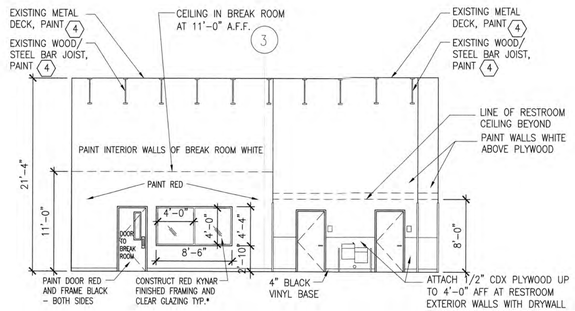
DRAWING HISTORY:

ISSUED FOR	DATE
ISSUED FOR AUTOZONE REVIEW	11/24/2025
ISSUED FOR PERMIT	11/24/2025
1 REVISED FOR PERMIT	02/02/2026

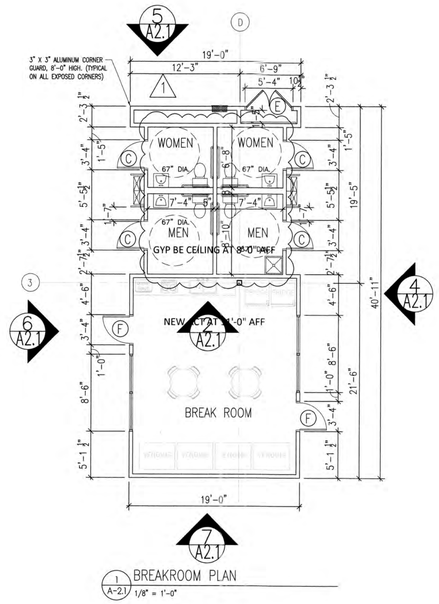
DRAWN BY: CADD
CHECKED BY: RGG
DATE: 11/24/2025

DOOR SCHEDULE DETAILS/RESTROOM PLAN/ELEVATION

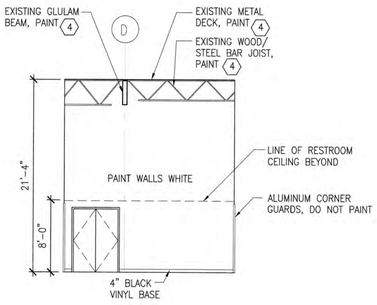
PROJECT	SHEET NO.
4406	A-2

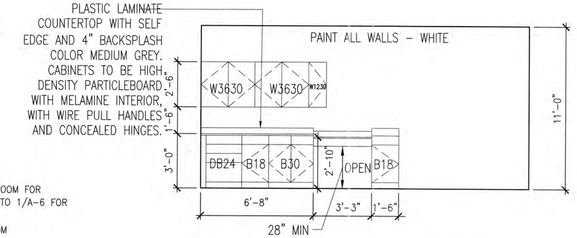


4 A-2.1 INTERIOR WALL ELEVATION – BREAK ROOM
1/4" = 1'-0"

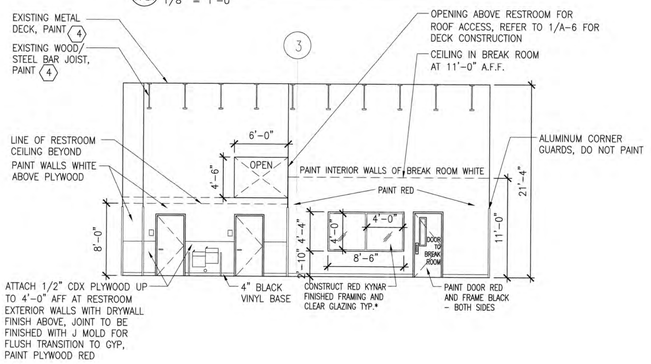


1 A-2.1 BREAKROOM PLAN
1/8" = 1'-0"

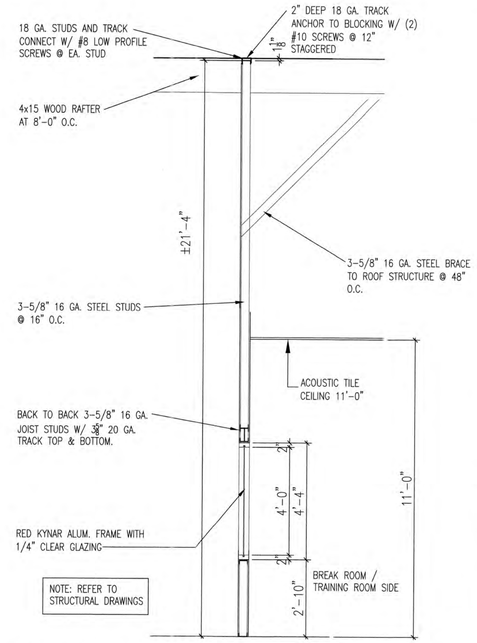




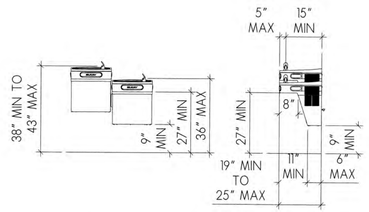
5 A-2.1 INTERIOR WALL ELEVATION – BREAK ROOM
1/8" = 1'-0"



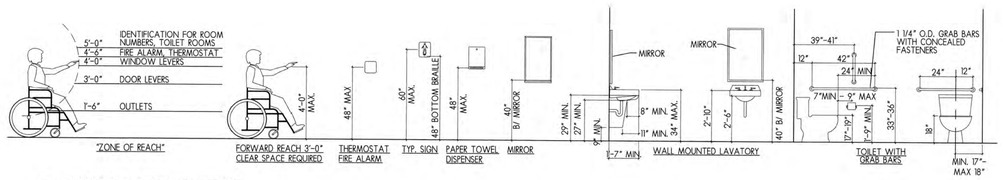
2 A-2.1 INTERIOR WALL ELEVATION – BREAK ROOM
1/4" = 1'-0"



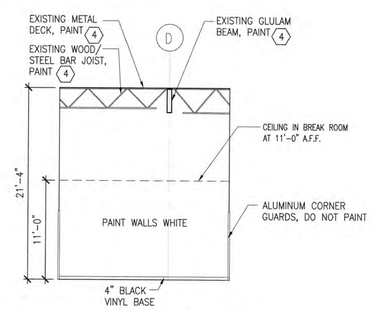
3 A-2.1 BREAK ROOM PARTITION DETAIL
3/8" = 1'-0"



9 A-2.1 ACCESSIBLE DRINKING FOUNTAIN DETAILS
N.T.S. (FOR REFERENCE ONLY)



8 A-2.1 ACCESSIBLE FACILITIES DETAILS
N.T.S. (FOR REFERENCE ONLY)



6 A-2.1 INTERIOR WALL ELEVATION – BREAK ROOM
1/8" = 1'-0"

7 A-2.1 INTERIOR WALL ELEVATION – BREAK ROOM
1/8" = 1'-0"

R. Gary Glueck
Architecture
Planning

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

3797 Loop Road
Nashville, NC 27856
Phone: 252-459-5900

4862 REGISTERED ARCHITECT
ROBERT GARY GLUECK
STATE OF WASHINGTON
3 FEB 26

ROBERT GARY GLUECK
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LICENSE NUMBER: #4862
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Plans and Specifications for the

AUTOZONE

AutoZone Store No. 10668
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PRCTI20251723

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123 SOUTH FRONT STREET
MEMPHIS, TN 38103
TEL: (901) 495-7505
CONTACT: HEIDI MURPHY

DRAWING HISTORY:

ISSUED FOR	DATE
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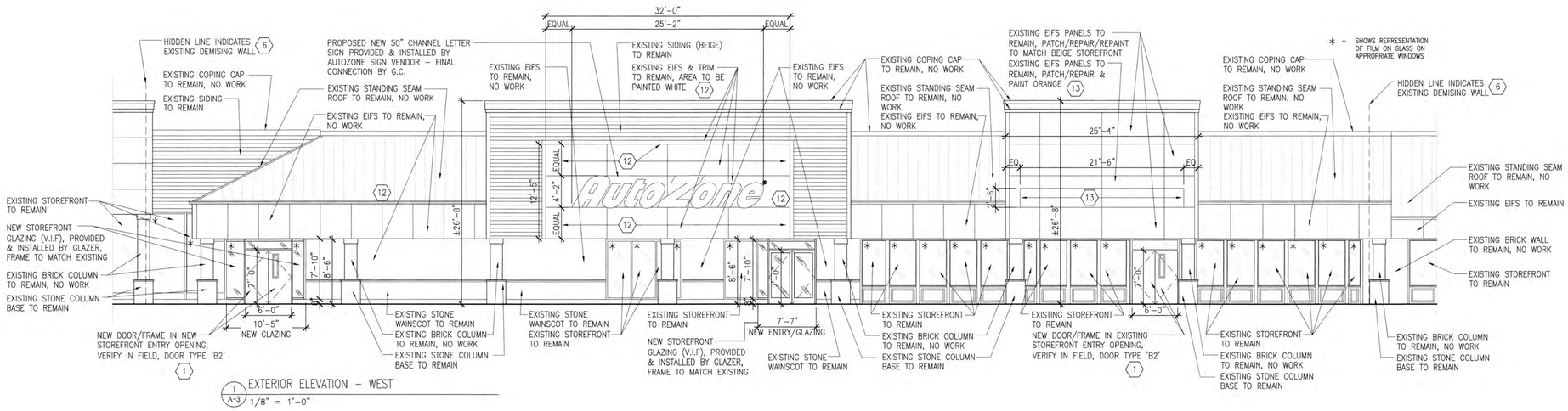
ISSUED FOR PERMIT	11/24/2025
1 REVISED FOR PERMIT	02/02/2026

DRAWN BY: CADD
CHECKED BY: RGG
DATE: 11/24/2025

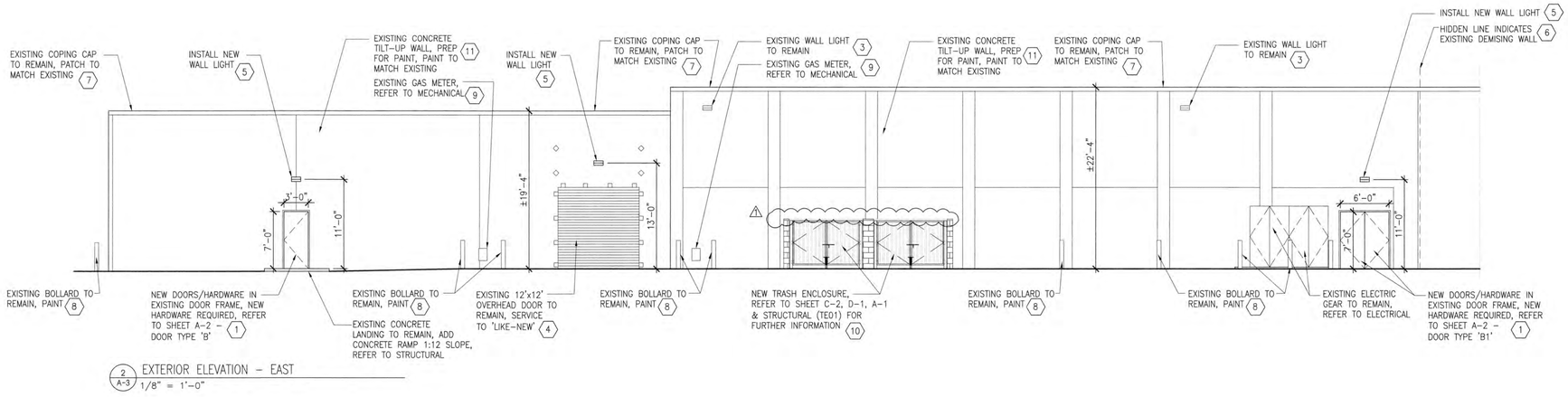
BREAKROOM DETAILS

PROJECT	SHEET NO.
4406	A-2.1

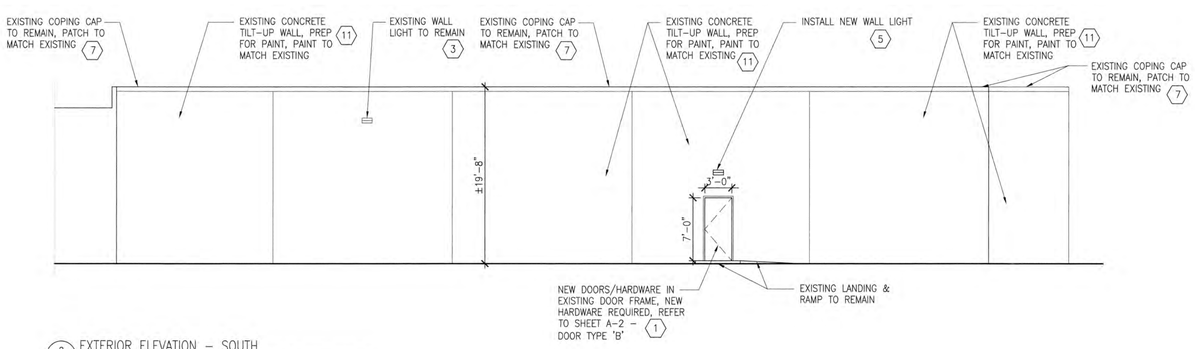
CONTRACTOR NOTE
Signs will require a separate permit



1 A-3 EXTERIOR ELEVATION – WEST
1/8" = 1'-0"



2 A-3 EXTERIOR ELEVATION – EAST
1/8" = 1'-0"



3 A-3 EXTERIOR ELEVATION – SOUTH
1/8" = 1'-0"

EXTERIOR ELEVATION KEY NOTES

1. PAINT HOLLOW METAL DOOR RED AND DOOR FRAME BLACK BOTH INSIDE AND OUTSIDE.
2. EXISTING EIFS TO REMAIN, PATCH/REPAIR AS REQUIRED
3. EXISTING LIGHT TO REMAIN
4. EXISTING OVERHEAD DOOR TO REMAIN, SERVICE TO 'LIKE-NEW'
5. MOUNT NEW 175W WALL PAK FIXTURE, REFER TO ELEVATION FOR HEIGHT AND CENTERED ABOVE SERVICE DOOR OPENING (SWING DOORS)
6. EXISTING DEMISING WALL
7. EXISTING COPING CAP TO REMAIN, PAINT TO MATCH EXISTING, REAR ELEVATIONS ONLY
8. EXISTING BOLLARDS, PAINT RED
9. LOCATION OF EXISTING GAS METER
10. NEW TRASH ENCLOSURE, REFER TO D-1, C-1, A-1 & STRUCTURAL
11. EXISTING CONCRETE TILT-UP WALL, PREP FOR PAINT, PAINT TO MATCH EXISTING
12. PAINT WHITE
13. PAINT ORANGE

FURNISH RIGID ALUMINUM DIAMOND PANEL SIGN IN SIZE TO MEET GOVERNING AUTHORITY REQUIREMENTS. FURNISH DIE CUT VINYL NUMBERS OF APPROPRIATE SIZE IN THE CONFIGURATION AS SHOWN.
SIGNS AND NUMBERS ARE AVAILABLE FROM EMEDCO tel. 800-442-3633.

GENERAL NOTES:

1. REFER TO SECTION 09900 OF THE SPECIFICATIONS FOR PAINT AND EXTERIOR COATINGS. ALL COLORS ARE BY SHERWIN-WILLIAMS PAINT COMPANY.
2. PAINT RESTROOM WALL VENTS TO MATCH THE ADJACENT WALL COLOR.
3. SEALANT AT EXPANSION JOINTS TO MATCH ADJACENT WALL COLOR.
4. ALL NEW MASONRY JOINTS TO BE CONCAVE TOOLED.

SIGNAGE NOTES:

1. AUTOZONE WILL FURNISH SIGNS UNLESS SPECIFICALLY NOTED ON THE DRAWINGS OTHERWISE. AUTOZONE'S SIGN VENDOR WILL PROVIDE FOR THE INSTALLATION OF THOSE SIGNS ON FOUNDATIONS AND WALL SURFACES THAT ARE FURNISHED AND PREPARED BY GENERAL CONTRACTOR.
2. SIGN INSTALLER SHALL OBTAIN SIGN PERMITS (UNDER SEPARATE SUBMITTAL) AND GENERAL CONTRACTOR SHALL OBTAIN FOUNDATION PERMIT FOR FREESTANDING SIGN.
3. GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLATION COORDINATION, PRIMARY ELECTRICAL, AND FINAL ELECTRICAL HOOK-UP. SEE "SN" SHEETS FOR ADDITIONAL INFORMATION.
4. SEE SHEET E3 FOR LOCATIONS OF J-BOXES TERMINATING EACH WALL SIGN CIRCUIT.

R. Gary Glueck
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City of Puyallup
Development & Permitting Services
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Nashville, NC 27856
Phone: 252-459-5900

4862 REGISTERED ARCHITECT ROBERT GARY GLUECK STATE OF WASHINGTON
5 FEB. 26

ROBERT GARY GLUECK
STATE OF WASHINGTON
LICENSE NUMBER: #4862
EXPIRES: 1/6/2027

Plans and Specifications for the
AUTOZONE
AutoZone Store No. 10668
4423 SOUTH MERIDIAN
PUYALLUP, WA 98373

PRCTI20251723

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TEL. 901-495-7425
CONTACT: KEVIN MURPHY

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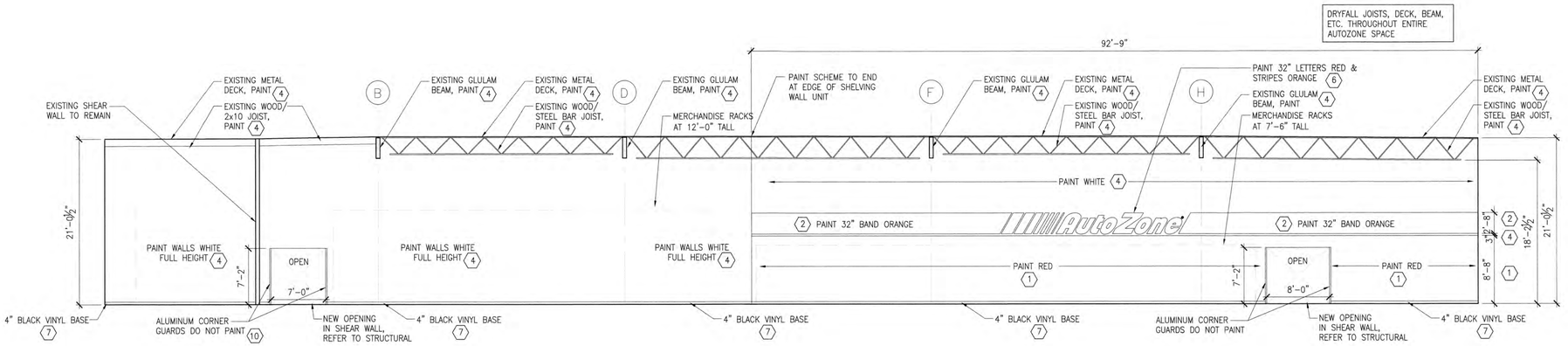
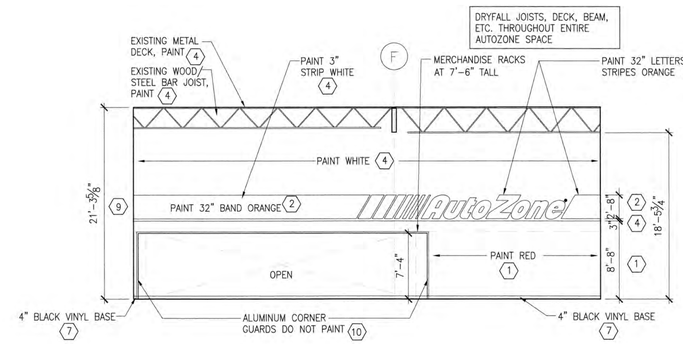
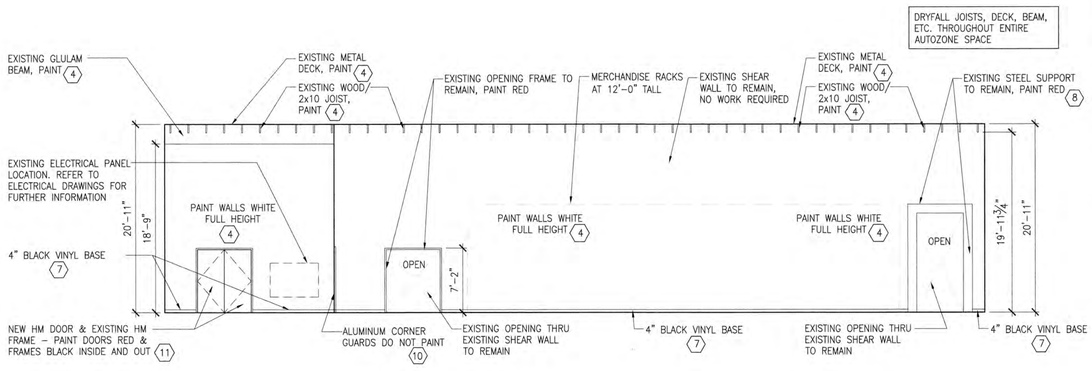
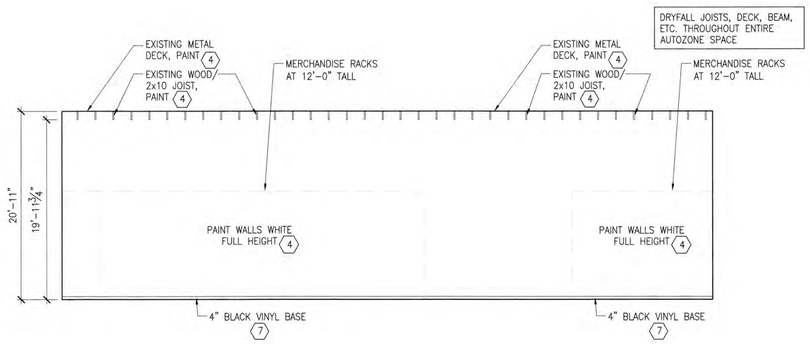
EXTERIOR ELEVATIONS/ NOTES

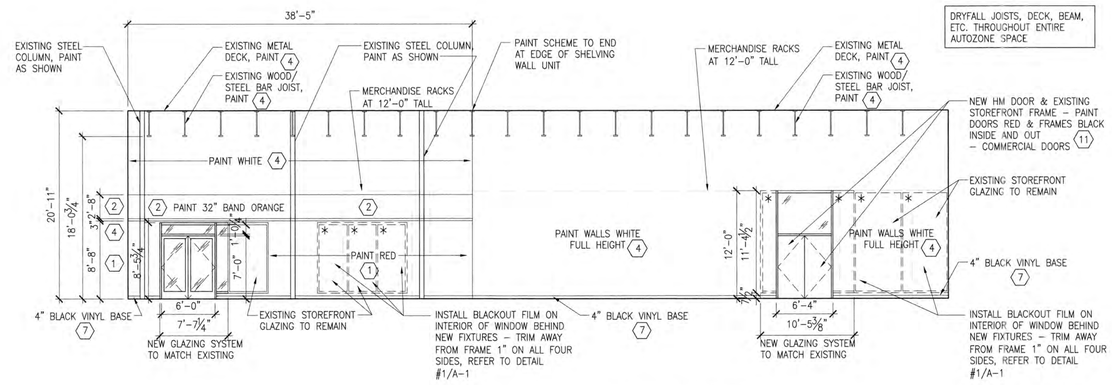
PROJECT	SHEET NO.
4406	A-3

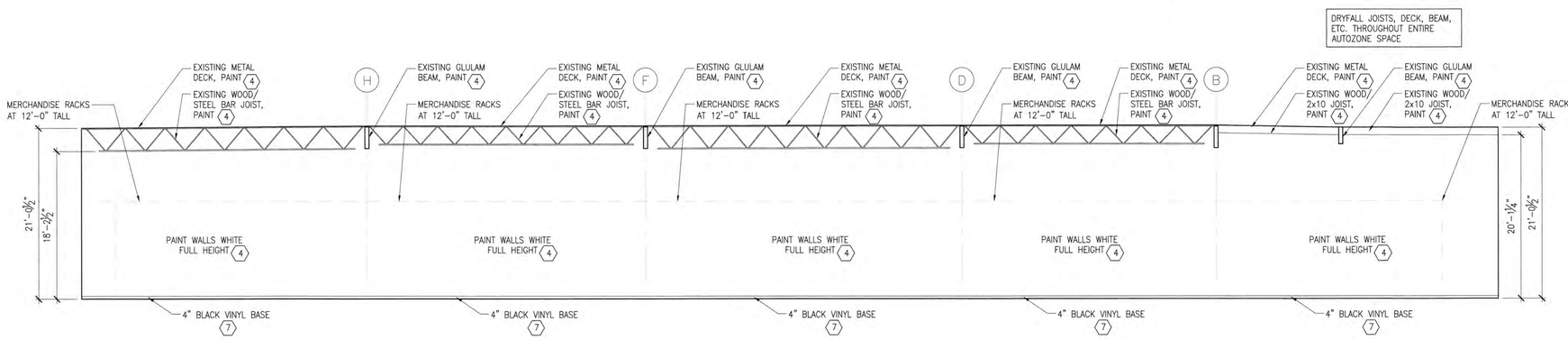












GENERAL PAINT NOTES

1. REFER TO PAINT SPECIFICATIONS SECTION 09900 FOR ALL INFORMATION AS WELL AS SPECIFIC REQUIREMENTS.
2. PAINT ALL EXPOSED CONDUIT TO MATCH WALL COLOR SCHEME.
3. PAINT INTERIOR SUPPORT COLUMNS TO MATCH WALL COLOR.
4. PAINT RESTROOM CEILING(S) WHITE.
5. DO NOT PAINT ANY ELECTRICAL EQUIPMENT.
6. PAINT WOOD/STEEL BAR JOISTS, GLULAMS & METAL DECK WHITE

INTERIOR PAINT KEY NOTES

1. PAINT RED
2. PAINT ORANGE
3. PAINT BLACK
4. PAINT WHITE BACKGROUND
5. PAINTED RED LETTERS
6. PAINTED ORANGE STRIPE AND MOTION BARS
7. 4" BLACK, VINYL BASE
8. EXISTING STEEL SUPPORT TO REMAIN, PAINT RED
9. CONTINUE PAINT SCHEME AND STRIPES ON ENDS OF CURTAIN WALL, PAINT BACK SIDE OF CURTAIN WALL RED
10. DO NOT PAINT ALUMINUM CORNER GUARDS
11. PAINT HOLLOW METAL DOORS RED AND DOOR FRAMES BLACK (EACH SIDE)
12. PAINT INTERIOR WALLS OF ELECTRICAL ROOM – WHITE, EXCEPT PHONE BOARD
13. EXISTING OVERHEAD DOOR TO REMAIN, DO NOT PAINT

CONTRACTOR NOTE
Signs will require a separate permit

R. Gary Glueck
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4862
REGISTERED ARCHITECT
ROBERT GARY GLUECK
STATE OF WASHINGTON

ROBERT GARY GLUECK
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LICENSE NUMBER: #4862
EXPIRES: 1/6/2027

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AutoZone Store No. 10668
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PUYALLUP, WA 98373

PRCTI20251723

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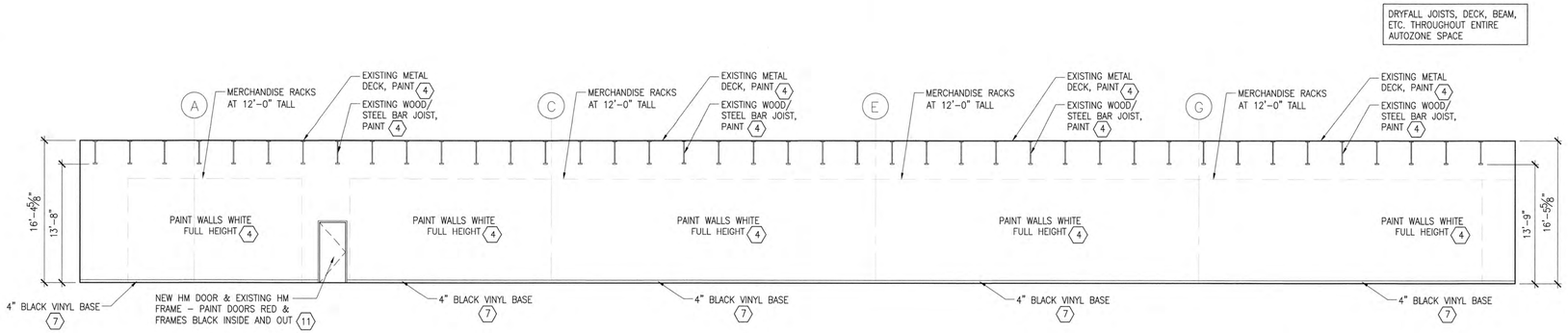
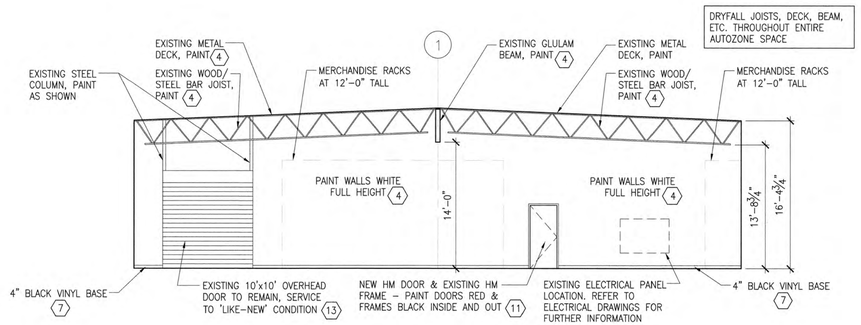
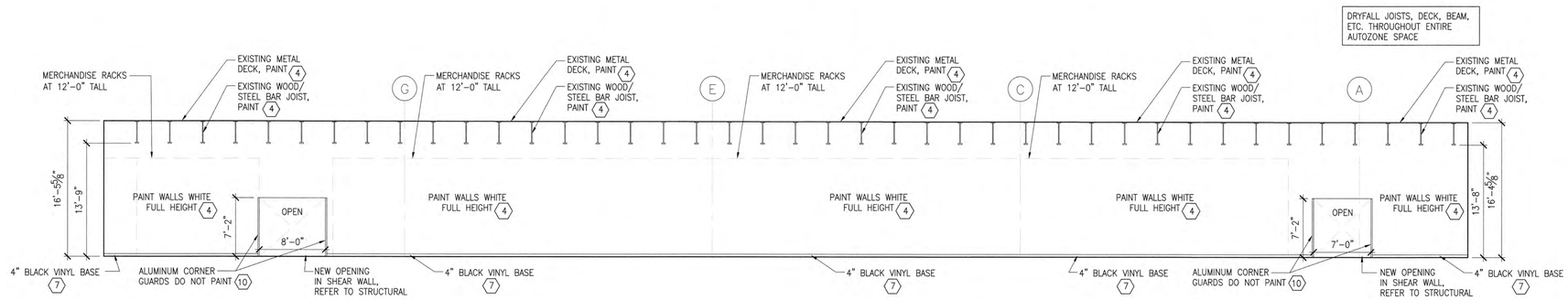
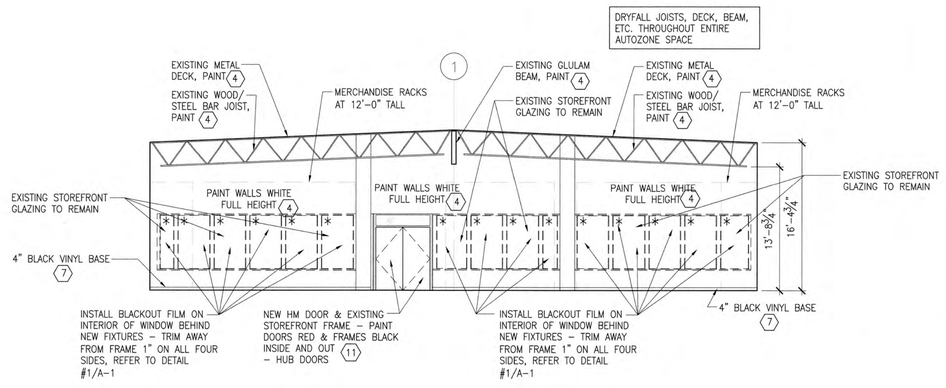
INTERIOR ELEVATIONS/ NOTES

PROJECT	SHEET NO.
4406	A-4









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INTERIOR PAINT KEY NOTES

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2. PAINT ORANGE
3. PAINT BLACK
4. PAINT WHITE BACKGROUND
5. PAINTED RED LETTERS
6. PAINTED ORANGE STRIPE AND MOTION BARS
7. 4" BLACK, VINYL BASE
8. EXISTING STEEL SUPPORT TO REMAIN, PAINT RED
9. CONTINUE PAINT SCHEME AND STRIPES ON ENDS OF CURTAIN WALL, PAINT BACK SIDE OF CURTAIN WALL RED
10. DO NOT PAINT ALUMINUM CORNER GUARDS
11. PAINT HOLLOW METAL DOORS RED AND DOOR FRAMES BLACK (EACH SIDE)
12. PAINT INTERIOR WALLS OF ELECTRICAL ROOM – WHITE, EXCEPT PHONE BOARD
13. EXISTING OVERHEAD DOOR TO REMAIN, DO NOT PAINT

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3 FEB 26

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PRCTI20251723

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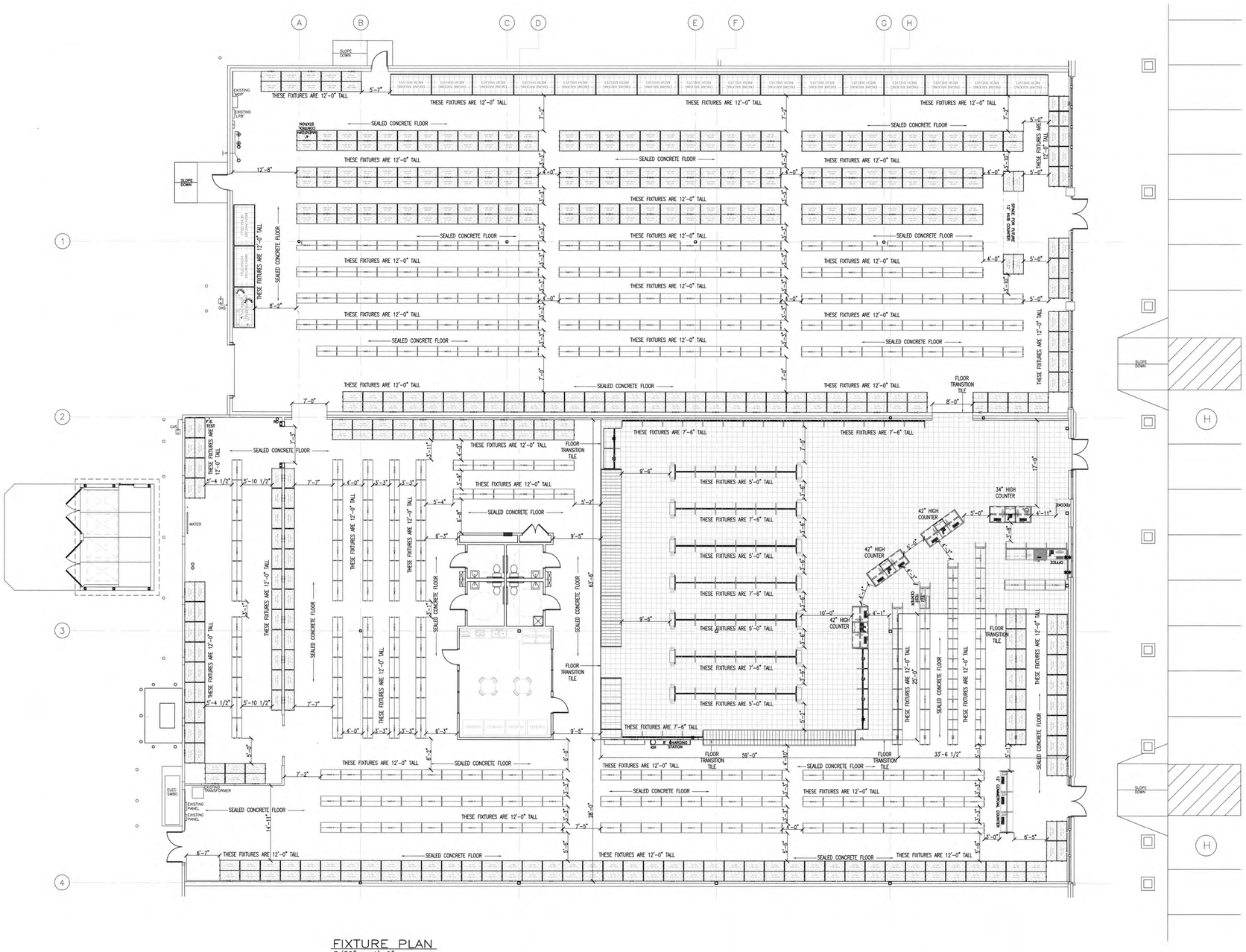
INTERIOR ELEVATIONS/ NOTES

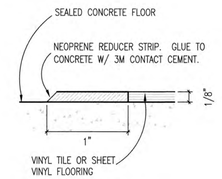
PROJECT	SHEET NO.
4406	A-4.1



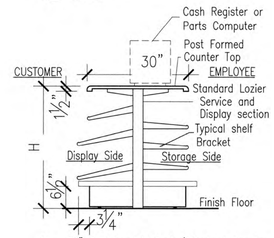
FIXTURE PLAN
3/32" = 1'-0"

FLOOR TILE NOTES

1. THE FOLLOWING IS GENERAL INFORMATION, REFER TO SPECIFICATIONS FOR FLOOR PREPARATION, TILE MANUFACTURER, STYLE, INSTALLATION INSTRUCTIONS, CLEANING AND WAXING.
2. ALL NEW TILE SHALL BE 12" X 12" X 1/8" VINYL FLOOR TILE, WHERE EXISTING TILE IS SHOWN TO REMAIN, NEW TILE REQUIRED TO COMPLETE THE INSTALLATION SHALL MATCH THE EXISTING. IF THE TILE IS NO LONGER AVAILABLE CONSULT THE AUTOZONE PROJECT MANAGER FOR INSTRUCTIONS BEFOR PROCEEDING ANY FURTHER. REFER TO FLOOR PLAN THIS SHEET FOR THE EXTENT OF NEW TILE REQUIRED.
3. PROVIDE TILE TRANSITION STRIPS WHERE TILE STOPS AND CONCRETE FLOOR IS LEFT EXPOSED.
4. 4" BLACK VINYL BASE ON ALL WALLS, INCLUDING INTERIOR & EXTERIOR OF ALL RESTROOM WALLS.
5. AT THE COMPLETION OF THE PROJECT, LEAVE ONE UN-OPENED BOX OF FLOOR TILE TO BE GIVEN TO THE PROJECT MANAGER, WHO WILL INTURN HAND IT OFF TO THE MAINTENANCE PERSONEL.



1/A-5 TRANSITION STRIP
FULL SIZE



H = 34" @ Accessible Parts/Checkout Counter
H = 42" @ Parts Counter
See Sheet A-1 for Locations

2/A-5 SECTION THRU COUNTER
3/4" = 1'-0"

CONTRACTOR NOTE

Per ESR 4266 periodic special inspection is required for Hilti Kiwi Bolt TZ2. Special inspection report will be provided to the city inspector at time of next inspection. See Racking Plans for details.

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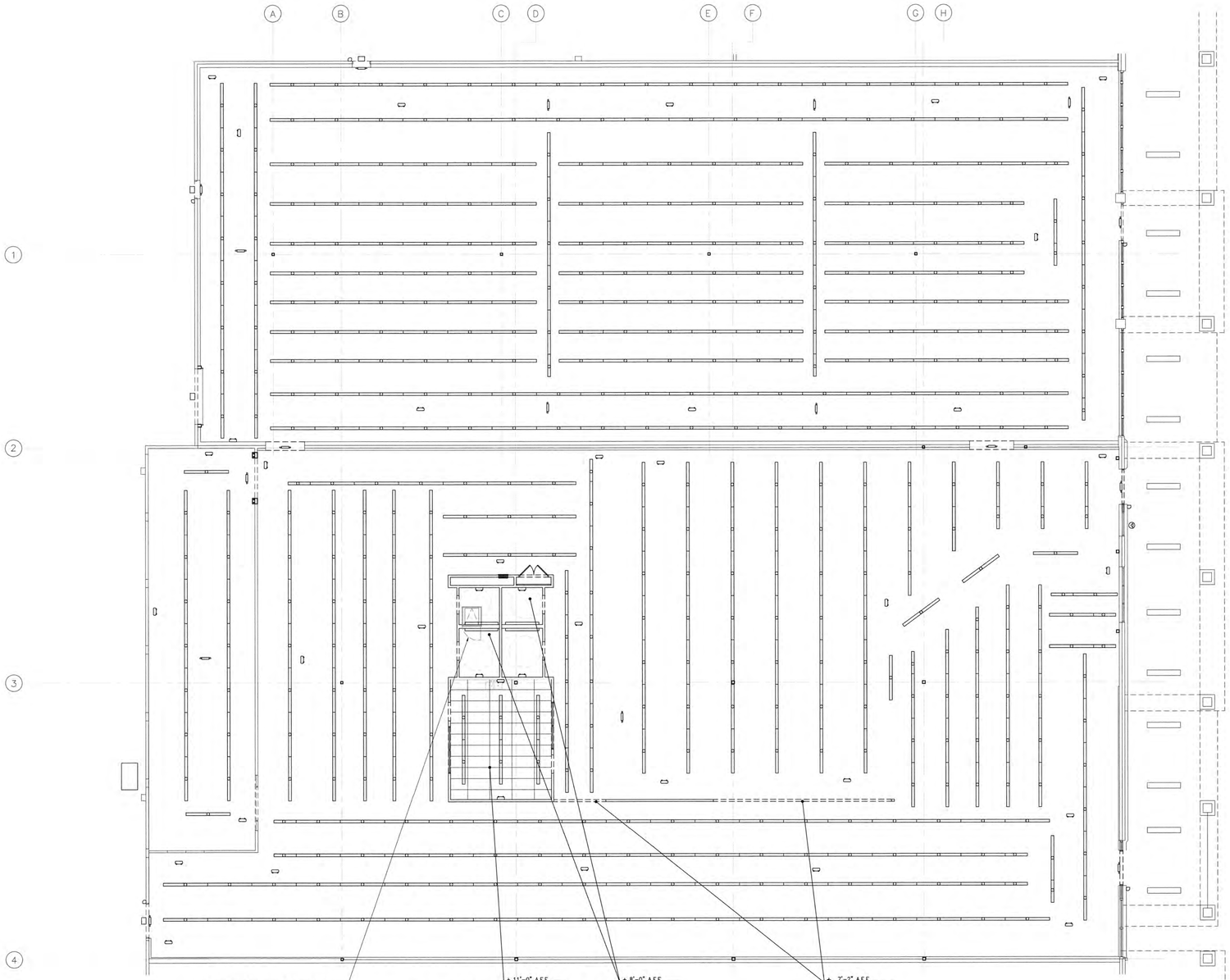
FIXTURE/FLOOR TILE PLAN/DETAILS NOTES

PROJECT	SHEET NO.
4406	A-5



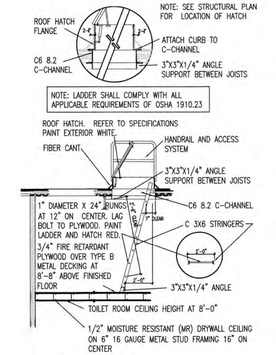
CEILING PLAN
3/32" = 1'-0"

BOTTOM OF BEAM IS AT 13'-4" AT LOWEST POINT. TALLEST MERCHANDISE SHELVING ARE 12'-0. LIGHTING SUSPENDED HEIGHT (SUSPEND CEILING IN THE BREAK ROOM AT 11'-0" & MOUNTED TO CEILING GRID; LIGHTING TO BE SUSPEND AT 13'-0" & MOUNTED TO UNISTRUT)

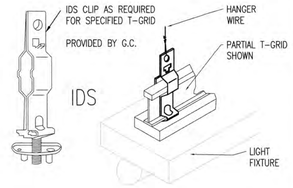
THIS BUILDING IS SPRINKLERED. GC WILL BE RESPONSIBLE FOR PROVIDING ALTERATION PLANS AND HIRE INSTALLERS. SEE NOTE #10 AND #11 ON SHEET A-0

CEILING NOTES:

1. CEILING GRID: ARMSTRONG PRELUDE 15/16" EXPOSED TEE GRID SYSTEM, INTERMEDIATE DUTY, PRE-PAINTED FLAT WHITE, IF NEW. OTHERWISE REPLACEMENTS SECTIONS OF GRID SHALL MATCH EXISTING. INSTALL ADDITIONAL HANGERS TO SUPPORT LIGHT FIXTURES. IN AREAS SUBJECT TO SEISMIC ACTIVITY PROVIDE GRID SYSTEM RATED FOR SAME.
2. CEILING TILES: ARMSTRONG MINERAL FIBER WITH FACTORY APPLIED VINYL LATEX FINISH, COLOR WHITE AND HAVING A FLAME SPREAD RATING OF 25 OR LESS EQUAL TO "CORTEGA #769A" SQUARE LAY-IN. SIZE SHALL BE NOMIALLY 24" X 48" X 5/8", OR SIZED TO FIT THE EXISTING GRID.
3. ~~THERMAL INSULATION: 6" ROLL FIBERGLASS BATTS WEIGHING NO MORE THAN .26 POUNDS PER SQUARE FOOT.~~
4. ALL ELEMENTS SHALL BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
5. INSTALL ALL MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS. INSTALL ROLL BATT INSULATION PERPENDICULAR TO THE CROSS TEES SO THAT THE WEIGHT IF THE INSULATION IS CARRIED BY THE GRID.
6. INSTALL NEW ACOUSTICAL CEILING TILES. ALLOW FOR (2) UNOPENED BOXES OF CEILING TILES TO REMAIN IN STORE.
7. CONTACT ARMSTRONG COMMERCIAL STRATEGIC ACCOUNTS FOR GUARANTEED PRICING FOR AUTOZONE PROJECT – (800)442-4212
8. BREAK ROOM ACT REQUIRES THE PERIMETER CEILING MOLDING TO BE 2" WIDE (MIN.) TO COMPLY WITH IBC CATEGORY D
9. SEISMIC SEPARATION JOINT NOT REQUIRED FOR CEILING AREA OF 2,500 SQ FT OR LESS – BREAK ROOM: 400 SQ FT CEILING AREA

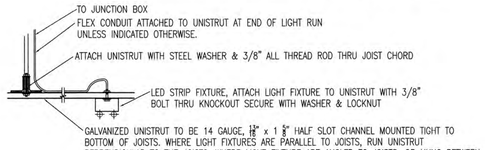


1 A-6 ROOF HATCH DETAIL
1/4" = 1'-0"

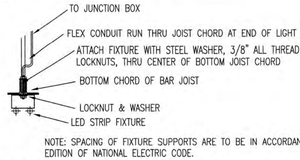


ERICO IDS CLIP CLAMP OVER THE T-GRID AND ATTACH TO THE C CHANNEL OF THE LIGHT FIXTURE REFER TO LIGHT FIXTURE AND CLIP MFGR INSTALLATION DETAILS. CLIPS SHALL MEET IBC STANDARDS AND BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S STANDARDS.

2 A-6 LIGHT FIXTURE GRID CLIP
1/8" = 1'-0"

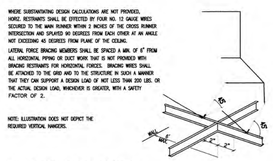


8 A-6 LED STRIP FIXTURE MOUNTING DETAIL BETWEEN JOISTS
1/8" = 1'-0"

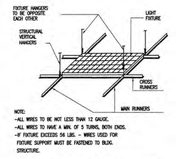


NOTE: SPACING OF FIXTURE SUPPORTS ARE TO BE IN ACCORDANCE WITH THE CURRENT EDITION OF NATIONAL ELECTRIC CODE.

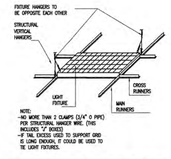
9 A-6 LED STRIP FIXTURE MOUNTING DETAIL AT JOISTS
1/8" = 1'-0"



7 A-6 LATERAL FORCE BRACING
3/16" = 1'-0"

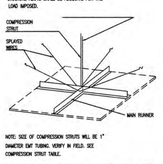


6 A-6 LIGHT FIXTURE SUPPORT DETAIL
NTS



1 A-6 LIGHT FIXTURE SUPPORT DETAIL
NTS (56 LBS. OR LESS, ONLY)

A STRUT FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS SUPPORTING THE ROOF OR FLOOR ABOVE. THE STRUT SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES. THESE HORIZONTAL RESTRAINT POINTS SHALL BE PLACED 12 FEET ON CENTER IN BOTH DIRECTIONS W/ THE FIRST POINT WITHIN 6 FEET OF EACH WALL. ATTACHMENT OF THE RESTRAINT WIRES TO THE STRUCTURE ABOVE SHALL BE ADEQUATE FOR THE LOAD IMPOSED.



NOTE: SIZE OF COMPRESSION STRUTS WILL BE 1" DIAMETER EMT TUBING. HEAVY IN FIELD. SEE COMPRESSION STRUT TABLE.

2 A-6 COMPRESSION STRUT DETAIL
3/16" = 1'-0"

THE TERMINAL ENDS OF EACH CROSS RUNNER AND MAIN RUNNER SHALL BE SUPPORTED INDEPENDENTLY A MAXIMUM OF 8 IN. FROM EACH WALL OR CEILING DISCONTINUITY W/ NO. 12 GAUGE WIRE OR APPROVED WALL SUPPORT. APPROVED WALL SUPPORT WILL CONSIST OF ANGLES OR CHANNELS ATTACHED TO EACH WALL STUD (WOOD OR METAL) W/ TEX-SCREWS OR SIMILAR. MAIN OR CROSS RUNNERS SHALL BE ATTACHED TO THIS WALL SUPPORT W/ SUPPORT W/ SCREWS, RIVOTS, OR SIMILAR.

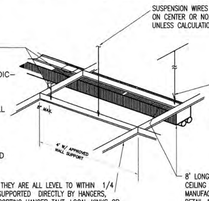
NOTE:
IF FOLLOWING CONDITIONS OCCUR IN CORRIDORS:
(A) WIDTH IS 4 FEET OR LESS
(B) MAIN RUNNERS ARE PERPINDICULAR TO CORRIDOR WALLS.
(C) PERIMETER HANGERS ARE ATTACHED BY APPROVED WALL SUPPORTS

THEN:
(1) NO SEIMIC TIES ARE REQ'D
(2) NO VERTICAL HANGERS REQ'D

MAIN RUNNERS SHALL BE INSTALLED SO THAT THEY ARE ALL LEVEL TO WITHIN 1/4 INCH IN 12 FEET. WHERE MAIN RUNNERS ARE SUPPORTED DIRECTLY BY HANGERS, LEVELING SHALL BE PERFORMED WITH THE SUPPORTING HANGER TAUT. LOCAL KINKS OR BENDS SHALL NOT BE MADE IN HANGER WIRES IN LEVELING OF MAIN RUNNERS. IN INSTALLATIONS WHERE HANGER WIRES ARE WRAPPED THROUGH OR AROUND MAIN RUNNERS, THE WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT. CROSS RUNNERS SHALL BE SUPPORTED BY EITHER MAIN RUNNERS OR BY OTHER CROSS RUNNERS TO WITHIN 1/32 IN. OF THE REQUIRED CENTER DISTANCES. THIS TOLARENCE SHALL BE NONCUMULATIVE BEYOND 12 FEET. INTERSECTING RUNNERS SHALL FORM RIGHT ANGLES.

EACH VERTICAL WIRE SHALL BE ATTACHED TO THE CEILING SUSPENSION MEMBER AND TO THE SUPPORT ABOVE W/ A MIN. OF THREE TURNS. ANY CONNECTION DEVICE AT THE SUPPORTING CONSTRUCTION SHALL BE CAPABLE OF CARRYING NOT LESS THAN 100 POUNDS. SUSPENSION WIRES SHALL NOT HANG MORE THAN 1 IN 6 OUT-OF-PLUMB UNLESS COUNTERSLOPING WIRES ARE PROVIDED. WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. A TRAPEZE OR EQUIVALENT DEVICE SHALL BE USED WHERE OBSTRUCTIONS PRECLUDE DIRECT SUSPENSION. TRAPEZE SUSPENSIONS SHALL BE A MIN. OF BACK-TO-BACK 1 1/4-INCH COLD ROLLED CHANNELS FOR SPANS EXCEEDING 48 INCHES.

SUSPENSION WIRES SHALL BE NOT SMALLER THAN NO.12 GAUGE SPACED 4 FEET ON CENTER OR NO. 10 GAUGE AT 5 FEET ON CENTER ALONG EACH MAIN RUNNER UNLESS CALCULATIONS JUSTIFYING THE INCREASED SPACING ARE PROVIDED.



IF ROOF FRAMING STRUCTURE IS MADE UP OF WOOD JOIST SYSTEM, HANGERS SHALL BE ATTACHED TO THE BOTTOM EDGE OF THE WOOD JOISTS OR TO THE VERTICAL FACE OF THE WOOD JOISTS NEAR THE BOTTOM EDGE. BOTTOM EDGE ATTACHMENT DEVICES SHALL BE AN APPROVED TYPE.

8' LONG FLUORESCENT LIGHT FIXTURE LOCATED PER PLAN ATTACH TO CEILING GRID WITH IDS CLIPS– 4 REQD PER FIXTURE SEE MANUFACTURERS RECOMMENDED INSTALLATION INSTRUCTIONS AND DETAIL 10 THIS SHEET.

3 A-6 LIGHT FIXTURE MOUNTING DETAIL
1/8" = 1'-0"

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Planning

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Phone: 252-459-5900

4862 REGISTERED ARCHITECT
ROBERT GARY GLUECK
STATE OF WASHINGTON

ROBERT GARY GLUECK
STATE OF WASHINGTON
LICENSE NUMBER: #4862
EXPIRES: 1/6/2027

Plans and Specifications for the
AUTOZONE
AutoZone Store No. 10668
4423 SOUTH MERIDIAN
PUYALLUP, WA 98373

PRCTI20251723

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123 SOUTH FRONT STREET
MEMPHIS, TN 38103
TEL: 901-495-7625
CONTACT: KEVIN MURPHY

DRAWING HISTORY:

ISSUED FOR	DATE
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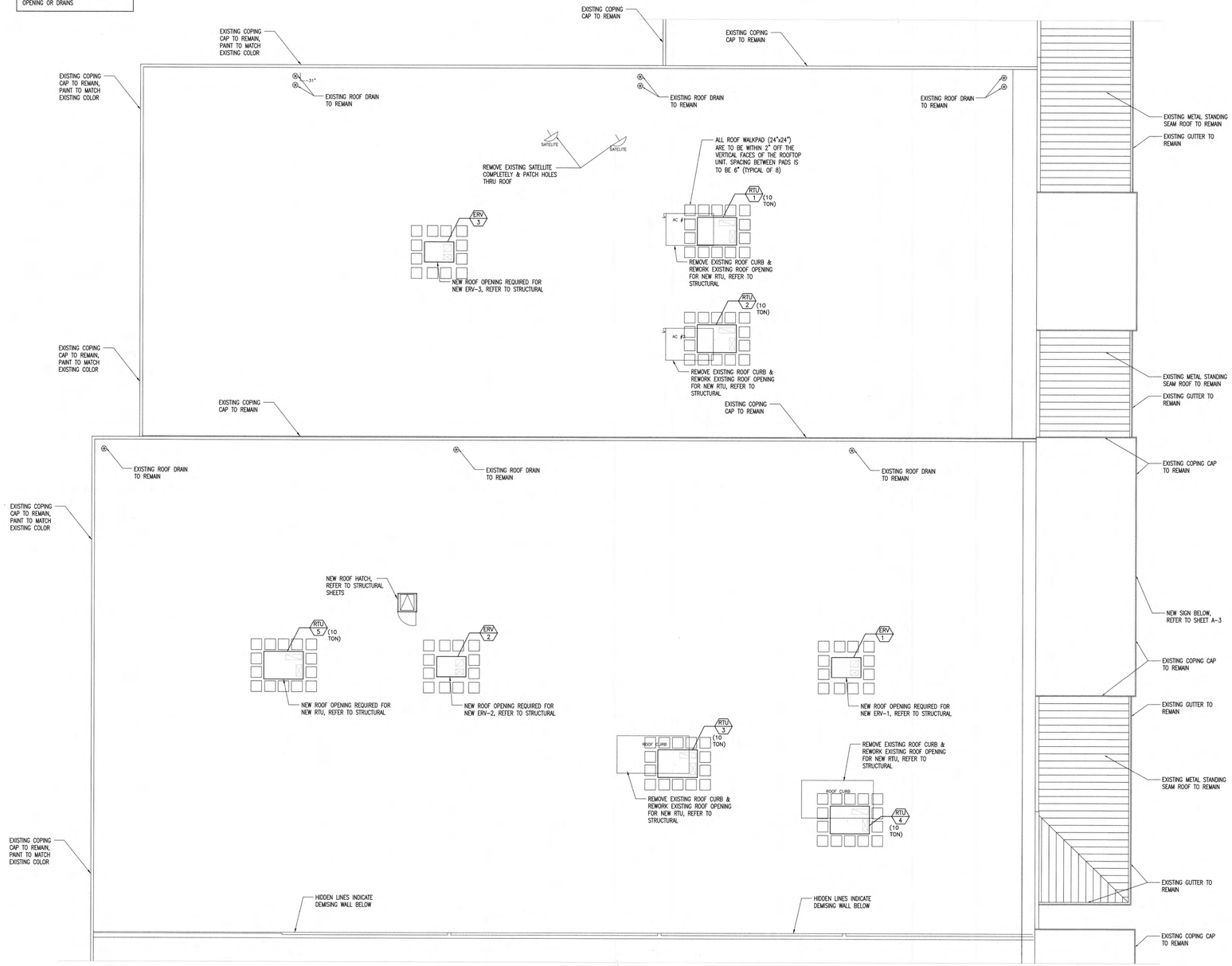
ISSUED FOR PERMIT	11/24/2025
⚠1 REVISED FOR PERMIT	02/02/2026

DRAWN BY: CADD
CHECKED BY: RGG
DATE: 11/24/2025

REFLECTED CEILING PLAN/ DETAILS

PROJECT	SHEET NO.
4406	A-6

ALL ROOF CRICKETS OR SADDLES TO BE 3" HIGH AT THE CENTER AND LOCATED AT THE HIGH SIDE OF ANY ROOF OPENING. SLOPE DOWNWARD TO EDGE OF ROOF OPENING OR DRAINS



ROOF PLAN
3/32" = 1'-0"

ROOF PLAN NOTES:

1. ALL ROOF CRICKETS OR SADDLES TO BE 3" HIGH AT THE CENTER AND LOCATED AT THE HIGH SIDE OF ANY ROOF OPENING. SLOPE DOWNWARD TO EDGE OF ROOF OPENINGS OR DRAINS.

2. REFER TO STRUCTURAL DRAWINGS FOR ROOF FRAMING TO IN-FILL OPENING FOR REMOVED ROOF HATCH

3. EXISTING HVAC ROOF CURBS TO BE REMOVED

4. EXISTING ROOF HATCH TO BE REMOVED & IN-FILLED

5. EXISTING RTU'S TO BE REMOVED, REFER TO MECHANICAL FOR NEW RTU'S

6. ALL ROOF WALKPADS (24" x 24") ARE TO BE WITHIN 2" OF VERTICAL FACES OF THE ROOFTOP UNIT. SPACING BETWEEN THE PADS IS TO BE 6"

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4862 REGISTERED ARCHITECT ROBERT GARY GLUECK STATE OF WASHINGTON 3 FEB 26

ROBERT GARY GLUECK
STATE OF WASHINGTON
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EXPIRES: 1/6/2027

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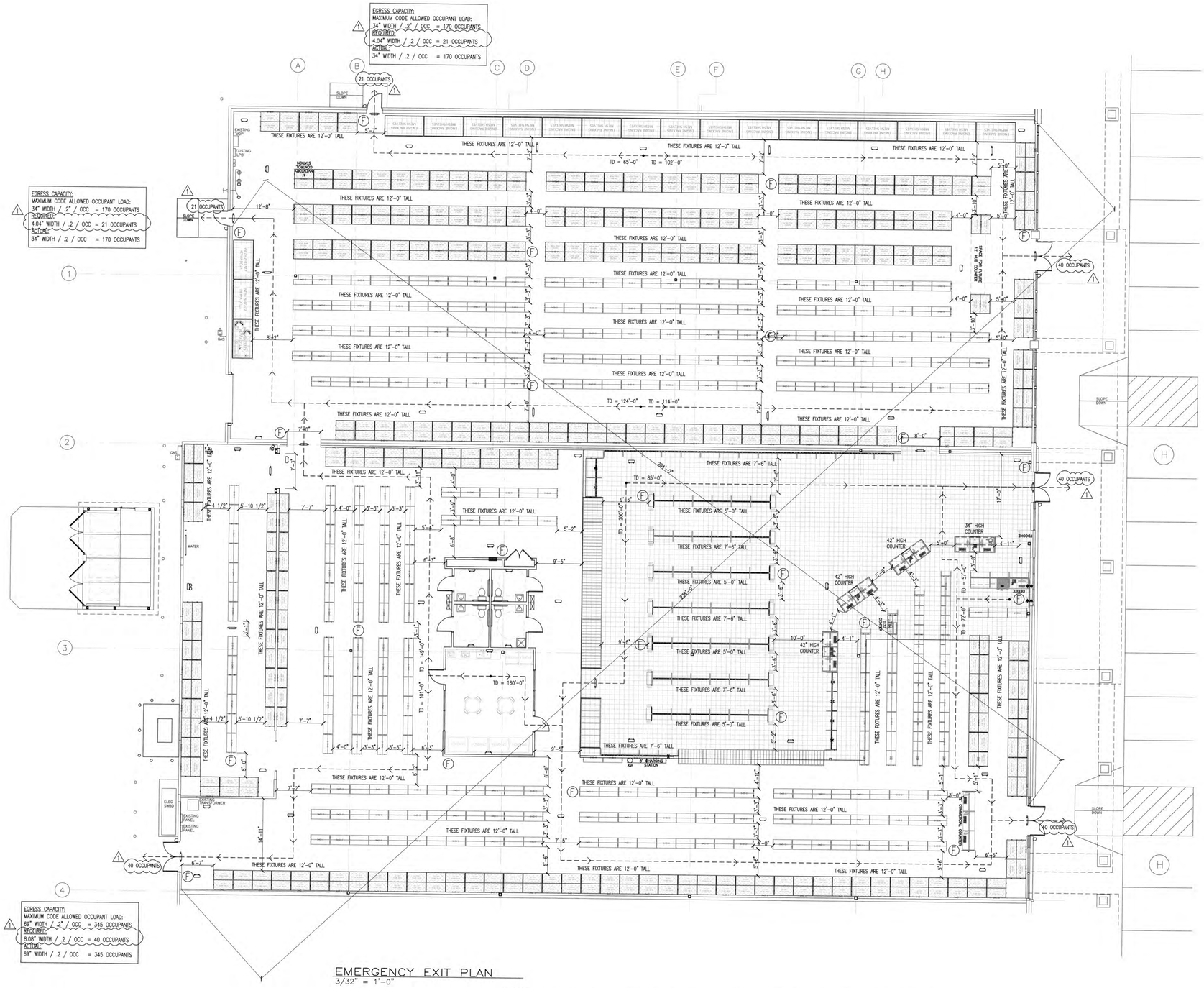
ROOF PLAN/ KEYNOTES

PROJECT	SHEET NO.
4406	A-7



EMERGENCY EXIT PLAN

3/32" = 1'-0"

NOTE: (F) = NEW DRY CHEMICAL FIRE EXTINGUISHER. GENERAL CONTRACTOR TO INSTALL ONE KIDDE 10 lb #46620420 AT BATTERY CHARGING AND KIDDE 5 lb #FC-340M-VB AT ALL OTHER LOCATIONS. INSTALL EITHER ON WALL SURFACE, FIXTURE UPRIGHT OR ALUMINUM MULLION. MOUNTING HEIGHT = 3'-6" ABOVE FINISHED FLOOR TO TOP OF EXTINGUISHER.

NOTE: = PROVIDE ADDITIONAL EXIT SIGNS AND MEANS OF EGRESS ILLUMINATION WHERE STORAGE RACKS OBSTRUCT THE VISIBILITY OF THE EXIT SIGNS OR EGRESS PATH

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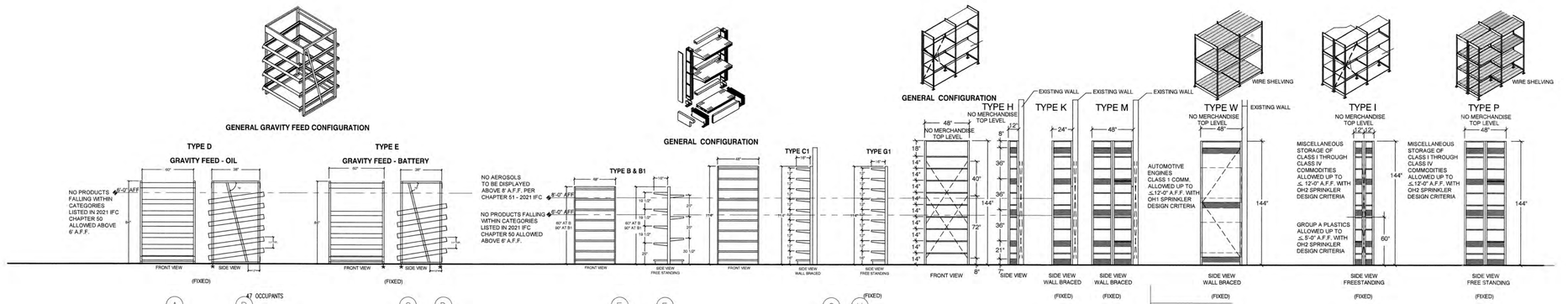
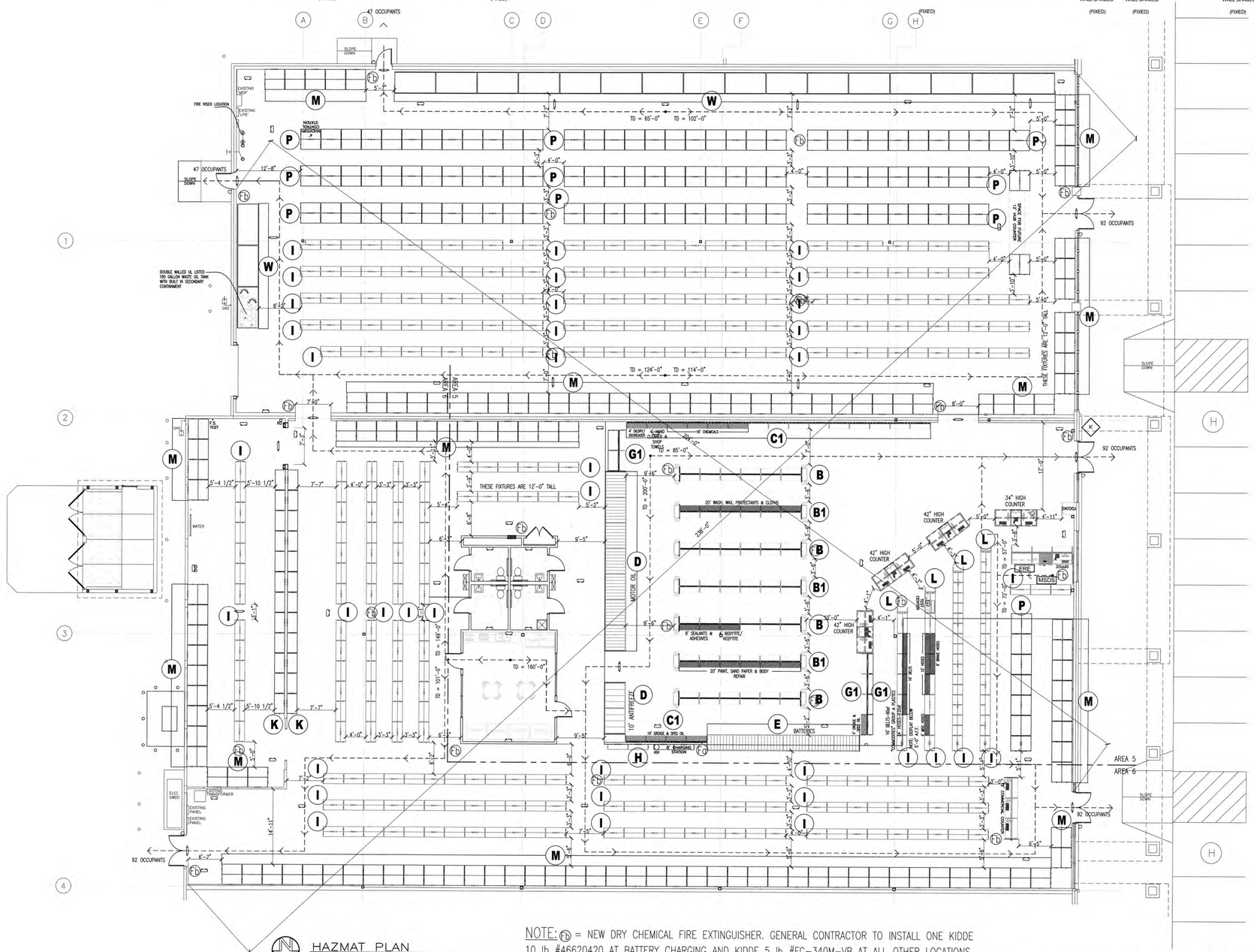
EMERGENCY EXIT PLAN

PROJECT	SHEET NO.
4406	A-8





HAZMAT PLAN
3/32" = 1'-0"

NOTE: (Fb) = NEW DRY CHEMICAL FIRE EXTINGUISHER. GENERAL CONTRACTOR TO INSTALL ONE KIDDE 10 lb #46620420 AT BATTERY CHARGING AND KIDDE 5 lb #FC-340M-VB AT ALL OTHER LOCATIONS. INSTALL EITHER ON WALL SURFACE, FIXTURE UPRIGHT OR ALUMINUM MULLION. MOUNTING HEIGHT = 3'-6" ABOVE FINISHED FLOOR TO TOP OF EXTINGUISHER.

NOTE: = PROVIDE ADDITIONAL EXIT SIGNS AND MEANS OF EGRESS ILLUMINATION WHERE STORAGE RACKS OBSTRUCT THE VISIBILITY OF THE EXIT SIGNS OR EGRESS PATH

DESIGN PARAMETERS

- 2021 International Building Code
- 2021 International Mechanical Code
- 2021 Uniform Plumbing Code
- 2025 National Electrical Code
- 2021 Washington State Energy Code
- 2021 International Fire Code
- 2010 ADA, 2009 ANSI A117.1

CODE ANALYSIS

OCCUPANCY CLASSIFICATIONS: GROUP M (MERCANTILE)
GROUP S1 (STORAGE)
MERCANTILE: 8,258 Sq.Ft. / 60 = 137
STORAGE: 19,472 Sq.Ft. / 300 = 65
TOTAL: 27,730 Sq.Ft. / 202 OCCUPANTS

TYPE OF CONSTRUCTION: V-B
NUMBER OF STORIES: 1 ALLOWED / 1 SHOWN
BUILDING AREA: 36,000 SF ALLOWED / 27,730 SF SHOWN

Description of Containers & Packaging Materials: Cartoned or Exposed, Non-Banded or Banded

Detailed Description of Products to be Stored:

- Various metal (steel or aluminum) automobile parts (Class I) - 12'-0" High (Low-Piled Storage)
- Paper air filters (Class III) - 12'-0" High (Low-Piled Storage)
- Various plastic and rubber automobile parts (rubber belts and hoses, parts with plastic components) (Exposed Unexpanded Group A Plastic) - 5-0" High (Low-Piled Storage). Shown on "I" type fixtures in the hatched area

  360 sf total area =

- Automobile batteries (Class I) - 6'-0" High (Low-Piled Storage) in Retail Store Sales Floor Only (
- Hazardous materials (flammable & combustible liquids, aerosols, compressed gases, and unstable reactives) in retail sales area - 6'-0" High (Low-Piled Storage) in Retail Sales Floor only. Shelving Type: open wire mesh decks (on Single Row Storage Rack) and solid shelving (on single shelf units)

Pallet Type: Hand stacked (not on pallets)

Storage Method(s): Single Row Storage Rack and single shelf units

Maximum Storage Height:

- Storage Rack: 12'-0"
- Shelf Storage: 12'-0"

MERCHANDISE PLAN

Knox box (F.D. key box) - if required	K
Material Safety Data Sheets	MSDS
Emergency Response Equipment	ERE
Denotes location of lighted exit signs.	EXIT
Fire Department Connection	
(Fb) KIDDE 5 lb #FC-340M-VB	
(Fo) KIDDE 10 lb #46620420	

CONTRACTOR NOTE
Per ESR 4266 periodic special inspection is required for Hilti Kiwi Bolt TZ2. Special inspection report will be provided to the city inspector at time of next inspection. See Racking Plans for details.

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PRCTI20251723

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TITLE: PROJECT MANAGER
CONTACT: KEVIN MURPHY

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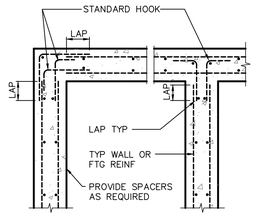
HAZMAT PLAN

PROJECT	SHEET NO.
4406	HM-1

K1 CONCRETE REINFORCING - PLAN VIEW

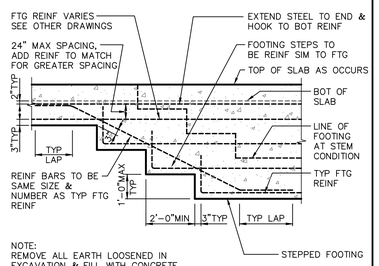
NTS



NOTE:
CONTINUOUS BARS MAY BE BENT TO REPLACE BARS W/ STD HOOK OR LAPPED BARS

K4 TYPICAL STEPPED FOOTING

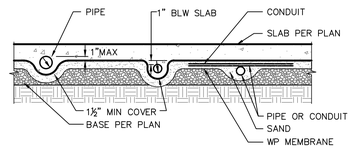
NTS



NOTE:
REMOVE ALL EARTH LOOSENED IN EXCAVATION & FILL WITH CONCRETE

K7 CONDUIT AND PIPE AT SLAB

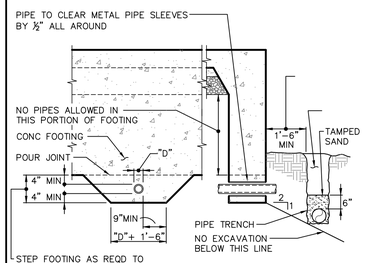
NTS



PIPE IN CONC **CONDUIT IN CONC** **CONDUIT OR PIPE BELOW CONCRETE**

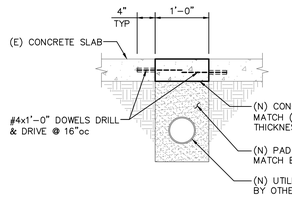
K10 TYPICAL PIPE PENETRATION

NTS



K13 UTILITY TRENCH

¾"=1'-0"



K16 (NOT USED)

–

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DIE ENGINEERS INC.
P.O. Box 712 Winfield, CA 95693
(707) 838-1565 FAX (707) 838-1970

SEAL AND SIGNATURE APPLIED PURSUANT TO CHAPTER 196-23 WAC SECTIONS 010, 020, AND 010.

JACOB F. GARZINN
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER

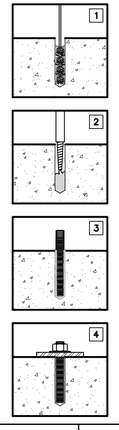
EXPIRATION: 05-09-26
DATE SIGNED: 11-24-25

G1 (NOT USED)

–

EPOXY HOLE PREPARATION:

1. EPOXY SHALL BE ONE OF THE FOLLOWING:
   SIMPSON SET-3G ICC ESR-4844 (MASONRY)
   SIMPSON SET-3G ICC ESR-4057 (CONCRETE)
2. HOLES FOR ADHESIVE ANCHOR SHALL BE DRILLED WITH A ROTARY DRILL.
3. HOLES FOR ADHESIVE ANCHOR SHALL BE THOROUGHLY CLEANED WITH THE FOLLOWING PROCEDURE:
   A. BLOW OUT ALL DUST AND LOOSE MATERIAL WITH COMPRESSED AIR EXTENSION NOZZLE PLACED AT BOTTOM OF HOLE.
   B. CLEAN HOLE SURFACE WITH A NYLON BRUSH WHICH IS SLIGHTLY LARGER THAN THE HOLE DIAMETER.
   C. BLOW OUT HOLE WITH COMPRESSED AIR PER A.
   D. REPEAT A–C AS REQUIRED. UNTIL ALL SURFACES ARE CLEAN, DRY AND DUST FREE.
4. EPOXY SHALL BE INSTALLED WHILE IN LIQUID FORM BY POURING OR INJECTING INTO CLEANED HOLE.



1. DRILL PROPER HOLE. CLEAN OUT HOLE. COMPLETE HOLE PREPARATION WITH USE OF NYLON BRUSH (DO NOT USE WIRE BRUSH)
2. PRIOR TO PLACEMENT, DISCHARGE APPROXIMATELY ONE FLUID OUNCE OF EPOXY. EPOXY MUST BE UNIFORM IN COLOR. INSERT THE NOZZLE INTO THE BOTTOM OF THE HOLE AND FILL THE HOLE TO ½ THE HOLE DEPTH
3. INSERT THE SELECTED ROD SLOWLY BY HAND INTO THE BOTTOM OF THE HOLE USING A SLOW TWISTING MOTION
4. AFTER RECOMMENDED CURE TIME INSTALL AND TIGHTEN FIXTURE

NOTE:
SPECIAL INSPECTION REQUIRED

A1 EPOXY ANCHOR BOLT DETAIL

NTS

G4 REINFORCING STEEL DATA

–

MINIMUM BAR LAPS FOR REINFORCING STEEL CONCRETE STRENGTH: 3,000 psi OR LESS (STAGGER SPLICES)					
SIZE	LAP LENGTH	SIZE	LAP LENGTH	SIZE	LAP LENGTH
#3	16"	#6	36"	#9	62"
#4	24"	#7	48"	#10	68"
#5	28"	#8	54"	#11	76"

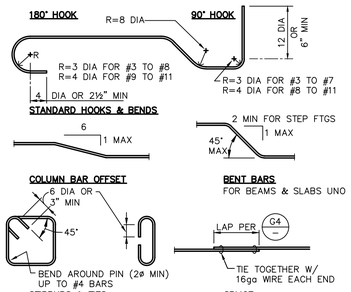
MINIMUM BAR SPACING (INCLUDING LAPS): 2" CLR OR 1½ x BAR DIAMETER. 1.5 x LAP EQUALS 150% LAP LENGTH REQUIRED

CONCRETE COVER FOR REINFORCING STEEL 'CLR'
CAST AGAINST EARTH OR GRADE ..... 3"
EXPOSED TO EARTH OR WEATHER (FORMED)
#5 & SMALLER ..... 1½"
#6 & LARGER ..... 2"
NOT EXPOSED TO EARTH OR WEATHER ..... 1½"
SLABS – FROM TOP OF CONC UNO ..... 2"

ALL REINFORCING BARS SHALL EXTEND AS FAR AS POSSIBLE AND END IN A STANDARD 90° or 180° HOOK UNLESS DETAILED OTHERWISE

D4 REINFORCING STEEL DATA

NTS



A4 (NOT USED)

–

G7 (NOT USED)

–

REQUIRED SPECIAL INSPECTION
IN ADDITION TO THE REGULAR INSPECTIONS, THE FOLLOWING ITEMS WILL REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1704 OF THE 2021 INTERNATIONAL BUILDING CODE:

1. STRUCTURAL WELDING
   A. ALL WELDING, BOTH SHOP AND FIELD.
   B. INSPECTION TO BE PERFORMED DURING FABRICATION OF MATERIAL IN THE SHOP. SUBMIT ALL REPORTS & CERTIFICATIONS TO BUILDING DEPARTMENT AND COPIES TO ENGINEER OF RECORD PRIOR TO ERECTION.
   C. INSPECTION TO BE PERFORMED DURING FIELD WELDING OF MATERIAL, CERTS AND REPORTS TO INSPECTOR WITHIN 2 WEEKS OF ERECTION.
   D. STRUCTURAL WELDS SHALL BE DONE BY A CERTIFIED WELDER IN ACCORDANCE WITH THE CURRENTLY ADOPTED EDITION OF AWS D1.1.
   E. FULL TIME INSPECTION REQUIRED DURING FINAL FIELD WELDING OF CONNECTIONS.
   F. SPECIAL INSPECTOR TO BE HIRED BY OWNER.
   G. REFER TO A16/S0.1 FOR STRUCTURAL STEEL.
3. EPOXIED DOWELS OR THREADED ROD
   B. DURING INSTALLATION OF DOWELS OR THREADED ROD SEE A1/S0.1
4. MASONRY CONSTRUCTION PER A13/S0.2 NOTE #8
   A. PERIODIC INSPECTION REQUIRED AT THE START OF LAYING OF UNITS, TAKING OF TEST PRISMS OR SPECIMENS, LAYING OF UNITS, AFTER REINFORCING PLACEMENT, GROUT SPACES PRIOR TO AND DURING ALL GROUTING INSTALLATION. REFER TO A13/S0.2.

THE SPECIAL INSPECTOR FOR ALL WORK OUTLINED IN IBC SECTION 104 AND AS REQUIRED BY THE CITY OF PUYALLUP SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE HIS COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR INSPECTION FOR THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION AND SHALL BE CHARGED WITH THE DUTIES AND RESPONSIBILITIES AS OUTLINED IN IBC SECTION 104.4.

THE SPECIAL INSPECTOR SHALL BE RESPONSIBLE FOR COMPLETING, MAINTAINING AND RE-SUBMITTING ALL SPECIAL INSPECTION LOGS AND FORMS REQUIRED BY THE CITY OF PUYALLUP.

THE OWNER, CONTRACTOR, SPECIAL INSPECTOR OR INSPECTION AGENCY, AND PROJECT ENGINEER AND/OR ARCHITECT SHALL COMPLETE TO THE SATISFACTION OF THE CITY OF PUYALLUPE THE ATTACHED SPECIAL INSPECTION AND TESTING AGREEMENT. THIS FORM IS REQUIRED TO BE SIGNED BY ALL PARTIES NOTED ABOVE PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.

A7 SPECIAL INSPECTION NOTES

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D10 FOUNDATION NOTES

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1. ALL SOILS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 18 OF THE 2021 INTERNATIONAL BUILDING CODE. FOUNDATION DESIGN PRESSURES ARE 1,500 psf D+L. ALL FOUNDATIONS SHALL BEAR ON FIRM, UNDISTURBED NATIVE SOILS AT OR EXCEEDING DEPTHS SHOWN ON THE DRAWINGS. ALL FOOTING EXCAVATIONS SHALL BE AS NEAT AS PRACTICABLE. OVER-EXCAVATIONS IN DEPTH SHALL BE FILLED WITH CONCRETE. ALL LOOSE SOILS SHALL BE REMOVED FROM EXCAVATIONS PRIOR TO PLACEMENT OF REINFORCING OR CONCRETE.
2. PROVIDE SLAB JOINTS PER PLAN. SUBMIT ALTERNATE JOINT LAYOUT PLAN FOR REVIEW IF CHANGED. PROVIDE DOWEL JOINTS INSTEAD OF CONTROL JOINTS AS REQUIRED FOR DISCONTINUOUS FOUNDATION CONSTRUCTION. JOINT SPACING SHALL NOT EXCEED 15'-0"oc UNO.
3. PRIOR TO PLACEMENT OF CONCRETE, FOUNDATION EXCAVATIONS AND REINFORCING STEEL SHALL BE INSPECTED BY THE BUILDING INSPECTOR, UNO.
4. CONCRETE SLABS SHALL BE KEPT CONTINUOUSLY WET FOR 48 HOURS AFTER PLACEMENT AND SHALL BE KEPT DAMP FOR 7 DAYS AFTER PLACEMENT OR SLAB SHALL HAVE CURER/SEALER APPLIED IMMEDIATELY AFTER FINISHING IF OTHER FINISHES ARE NOT AFFECTED. CURER SHALL BE OF A TYPE THAT WILL NOT BE DETRIMENTAL TO SEALER WHICH MAY BE APPLIED LATER.
5. DO NOT UNDERMINE EXISTING FOUNDATION CONSTRUCTION. NOTIFY ENGINEER FOR REVIEW AND REVISION IF EXISTING FOUNDATION CONDITIONS ARE NOT AS SHOWN.
6. PLUMBING, UTILITY PIPES AND ELECTRICAL CONDUIT SHALL NOT BE LAID WITHIN FOUNDATIONS. NO PIPES OR CONDUITS PERMITTED THROUGH SILL PLATES WITHIN 12" OF HOLDOWN BOLTS. NO MECHANICAL, ELECTRICAL, OR PLUMBING OPENINGS LARGER THAN 24" SQUARE SHALL BE LOCATED IN SHEAR WALLS UNLESS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS. NO VERTICAL OR HORIZONTAL PIPES OR CONDUITS PERMITTED TO PENETRATE STEEL FRAMES, STEEL COLUMNS, OR STEEL BASE PLATES. PROVIDE FURRING AND/OR THICKENED CONCRETE WHERE REQUIRED TO CONCEAL OR CLEAR UTILITY SYSTEMS. ALL PLUMBING AND CONDUIT THROUGH FOUNDATIONS SHALL BE PER K10/– & K7/–.

A10 SPECIAL MATERIALS NOTE

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1. STEEL HARDWARE SHALL COMPLY WITH ASTM A7 OR A36, HOT-DIP GALVANIZED IF EXPOSED TO WEATHER.
2. MACHINE BOLTS (MB): ASTM A307. HEX HEAD TYPE WITH MATCHING NUT AND STANDARD CUT WASHER OR MALLEABLE IRON WASHER AT WOOD BEARING SURFACE.
3. LAG BOLTS AND SCREWS: FEDERAL SPECIFICATIONS FF-B-561.

   NAILS:
   A. COMMON (EXCEPT AS NOTED) FEDERAL SPECIFICATIONS FF-N-1-1 GALVANIZED.
   B. FINISH NAILS FOR FINISH TRIM WORK. GALVANIZED FOR EXTERIOR APPLICATION.
   C. ALL EXTERIOR NAILS TO BE GALVANIZED, SIZE AS NOTED.
4. METAL CONNECTORS AS SHOWN ON DRAWINGS TO BE "SIMPSON", (HOT-DIP GALVANIZED AT EXTERIOR CONDITIONS) **NO SUBSTITUTIONS PERMITTED.**
5. CONCRETE ANCHORS SHALL BE "HILTI" ANCHORS AS MANUFACTURED BY THE HILTI CO, OR APPROVED EQUAL (UNO).
6. **ALL MATERIAL DESIGNATED AS GALVANIZED SHALL BE HOT-DIP GALVANIZED (NO EXCEPTIONS); NO ELECTRO-GALVANIZATION PERMITTED.**

AB	ANCHOR BOLT	DJ	DOWEL JOINT	HS	HIGH STRENGTH	NIC	NOT IN CONTRACT	SPCG	SPACING
ABV	ABOVE	DL	DEAD LOAD	HSB	HIGH STRENGTH BOLT	NO or #	NUMBER	SPEC	SPECIFICATION
AC	AIR CONDITIONING	DN	DOWN	HSFB	HIGH STRENGTH FRICTION BOLT	NS	NEAR SIDE	SQ	SQUARE
ADJ	ADJACENT	DO	DITTO	HSG	HIGH STRENGTH GROUT	NTS	NOT TO SCALE	SS	SELECT STRUCTURAL or STAINLESS STEEL
ALT	ALTERNATE	DWG	DRAWING	HSH	HORIZONTAL SLOTTED HOLE	OC	ON CENTER	STD	STANDARD
@	AT	EA	EACH	HSS	HOLLOW STRUCTURAL SECTIONS	OD	OUTSIDE DIAMETER	STIFF	STIFFENER
BLDG	BUILDING	EE	EACH END	HT	HEIGHT	OH	OPPOSITE HAND	STL	STEEL
BLK/BLKG	BLOCK/BLOCKING	EF	EACH FACE	ID	INSIDE DIAMETER	OPNG	OPENING	STRUCT	STRUCTURAL
BLW	BELOW	ELEC	ELECTRICAL	IJ	I SHAPED WOOD BUILT-UP TRUSS	OPP	OPPOSITE	SW	SHEAR WALL
BM	BEAM	ELEV	ELEVATOR/ELEVATION			OW	OTHERWISE	SYM	SYMMETRICAL
BN	BOUNDARY NAIL	EMBED	EMBEDMENT	JST	JOIST	P	PLATE or PROPERTY LINE	T&B	TOP AND BOTTOM
BOT	BOTTOM	EQ	EQUAL or EQUIVALENT	JT	JOINT	PEN	PLYWOOD EDGE NAIL	T&G	TONGUE AND GROOVE
BRG	BEARING	EQUIP	EQUIPMENT	ksi	KIPS PER SQUARE INCH	PLY	PLYWOOD	THK	THICK
BTWN	BETWEEN	ES	EACH SIDE	L	STEEL ANGLE	PLF	POUNDS PER LINEAR FOOT	THRD	THREADED
BW	BRACED WALL	EW	EACH WAY	Lb or #	POUND(s)	PNL	PANEL	THRU	THROUGH
C	AMERICAN STANDARD CHANNEL	EXIST or (E)	EXISTING	LGMF	LIGHT GAGE METAL FRAMING	PP	PARTIAL PENETRATION	TL	TOTAL LOAD
CB	CARRIAGE BOLT	EXP	EXPANSION	LGMFC	LIGHT GAGE METAL FRAMING CONTRACTOR	psf	POUNDS PER SQUARE FOOT	TN	TOE NAIL
CBC	CALIFORNIA BUILDING CODE	FDN	FOUNDATION	LL	LIVE LOAD	psi	POUNDS PER SQUARE INCH	TOC	TOP OF CONCRETE
℄	CENTERLINE	FIN	FINISH	LLH	LONG LEG HORIZONTAL	PTBP	PLANEL TEE BAR	TOF	TOP OF FRAMING
CJ	CONTROL JOINT	FG	FINISH GRADE	LLV	LONG LEG VERTICAL	PTDF	PRESSURE TREATED DOUGLAS FIR	TOM	TOP OF MASONRY
CLG	CEILING	FLR	FLOOR	MAX	MAXIMUM	R	RADIUS	TOP	TOP OF PLYWOOD
CLR	CLEAR	FN	FACE NAIL	MB	MACHINE BOLT	PT	POINT	TOS	TOP OF STEEL
COL	COLUMN	FOC	FACE OF CONCRETE	MBM	METAL BUILDING MANUFACTURER	RFTR	RAFTER	TOT	TOTAL
CONC	CONCRETE	FOM	FACE OF MASONRY	MC	MISCELLANEOUS CHANNEL	REF	REFERENCE	TU	TILT UP
CONN	CONNECTION	FOS	FACE OF STUD	MCJ	MASONRY CONTROL JOINT	REINF	REINFORCING	TYP	TYPICAL
CONT	CONTINUOUS	FRMG	FRAMING	MECH	MECHANICAL	REQD	REQUIRED	UNO	UNLESS NOTED OTHERWISE
CP	COMPLETE PENETRATION	FTG	FOOTING	MFR	MANUFACTURER	REV	REVISION	VERT	VERTICAL
CMU	CONCRETE MASONRY UNIT	FS	FAR SIDE	MIN	MINIMUM	RF	ROOF	VIF	VERIFY IN FIELD
CSK	COUNTERSINK	GA	GAGE or GAUGE	MISC	MISCELLANEOUS	SAD	SEE ARCHITECTURAL DRAWINGS	VSH	VERTICAL SLOTTED HOLE
CW	CUT WASHER	GALV	GALVANIZED	MW	MALLEABLE IRON WASHER	SB	SOLID BLOCK	W	WIDE FLANGE STEEL BEAM
DBL	DOUBLE	GLB	GLUE LAMINATED BEAM	MTL	METAL	SCD	SEE CIVIL DRAWINGS	WITH	WITH
DF	DOUGLAS FIR	GR	GRADE	NEW	NEW	SCHED	SCHEDULE	W/O	WITHOUT
DIA or ø	DIAMETER	HD	HOLDOWN			SED	SEE ELECTRICAL DRAWINGS	WD	WOOD
DIAG	DIAGONAL	HDG	HOT DIP GALVANIZED			SIM	SIMILAR	WP	WORK POINT/WATERPROOF
DIM	DIMENSION	HGR	HANGER			SMD	SEE MECHANICAL DRAWINGS	WT	WEIGHT
		HORIZ	HORIZONTAL					WWF	WELDED WIRE FABRIC

G13 ABBREVIATIONS

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1. ALL CONCRETE SHALL CONFORM TO THE 2021 INTERNATIONAL BUILDING CODE (IBC).
2. ALL CONCRETE SHALL ATTAIN A STRENGTH OF 3,000 psi WITHIN 28 DAYS, UNO.

   NOTE: NOT STRUCTURAL CRITERIA–THIS IS REQUIRED PER 2021 IBC SECTION 1808.8 FOR SEISMIC DESIGN CATEGORY D. STRUCTURAL DESIGN BASED ON 2,500 psi. SPECIAL INSPECTION IS NOT REQUIRED BY ENGINEER OF RECORD
3. ALL CEMENT USED TO BE TYPE II OF ASTM C-150.
4. DRYPACK TO BE COMPOSED OF 1 PART PORTLAND CEMENT TO NOT MORE THAN THREE PARTS SAND.
5. CONCRETE SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 10 DAYS OR BY AN APPROVED CURING COMPOUND (UNO).
6. ALL REINFORCING STEEL, ANCHOR BOLTS AND OTHER INSERTS TO BE ACCURATELY PLACED AND SECURED SO THAT THEY WILL NOT BE DISPLACED.
7. ALL CONSTRUCTION JOINT LOCATIONS TO BE APPROVED BY THE ENGINEER, IF NOT NOTED ON DRAWINGS.

D13 CONCRETE NOTES

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STRUCTURAL PLAN SPECIFICATIONS TAKE PRECEDENCE OVER THESE SHOWN HERE OR ON ANY STANDARD SCHEDULE

1. ALL REINFORCING STEEL SHALL CONFORM TO ASTM (A615M-60) UNLESS NOTED OTHERWISE.
2. ALL REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM (A706M-60). USE LOW HYDROGEN ELECTRODES, GRADE (E-70) FOR WELDING OF REINFORCING BARS (IF APPLICABLE).
3. REINFORCING BARS MARKED CONTINUOUS TO BE SPLICED PER G4/– UNLESS NOTED OTHERWISE. LAPS IN ALL GRADE BEAMS OR CONCRETE POURED ABOVE GRADE TO BE VERIFIED WITH ENGINEER, PRIOR TO POURING.
4. ALL REINFORCING SHALL BE SECURELY TIED AND BRACED IN PLACE PRIOR TO PLACEMENT OF CONCRETE.
5. ALL REINFORCING SHALL BE KEPT CLEAN AND FREE OF RUST.

A13 REINFORCING STEEL NOTES

–

1. ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL CONFORM TO THE SPECIFICATIONS AS STATED IN THE "MANUAL OF STEEL CONSTRUCTION" BY AISC (LATEST EDITION). STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:

PLATE STEEL	ASTM A36	Fy=36ksi
W SHAPES	ASTM A992	Fy=50ksi
M, S, HP, C, MC & L SHAPES	ASTM A36	Fy=36ksi
WT SHAPES	ASTM A992	Fy=50ksi
MT & ST SHAPES	ASTM A36	Fy=36ksi
RECTANGULAR & SQUARE HSS	ASTM A500, GRADE B	Fy=46ksi
ROUND HSS	ASTM A500, GRADE B	Fy=42ksi
STEEL PIPE	ASTM A53, GRADE B	Fy=35ksi
COMMON BOLTS	ASTM A307, GRADE A	
HIGH STRENGTH BOLTS	ASTM A325 OR A490, TYPE 1	
TWIST-OFF-TYPE TENSION CONTROL BOLTS	ASTM F1852, TYPE 1	
HEAVY HEX NUTS	ASTM A563	
WASHERS	ASTM F436	
COMPRESSIBLE-WASHER-TYPE DIRECT-TENSION INDICATORS	ASTM F959, TYPE 325 OR 490	
THREADED RODS	ASTM A36	Fy=36ksi
ANCHOR BOLTS & RODS	ASTM F1554, GRADE 36	Fy=36ksi
CLEVISES & TURNBUCKLES	AISI C1035	
EYE NUTS & EYE BOLTS	AISI C1030	
SLEEVE NUTS	AISI C1018, GRADE 2	
ROD ENDS, YOKE ENDS & PINS, COTTER PINS & COUPLING NUTS	CARBON STEEL	

2. ALL STEEL MEMBERS SHALL BE GIVEN ONE SHOP COAT OF RUST-INHIBITIVE PRIMER PRIOR TO ERECTION. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED. STAINLESS STEEL OR EFFECTIVELY PROTECTED FROM CORROSION BY PAINTING.
3. COMMON BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A307. BOLT HOLES SHALL BE ⅛" LARGER IN DIAMETER THAN THE BOLT, UNLESS NOTED OTHERWISE (UNO) ON THE DRAWINGS. IF HIGH STRENGTH BOLTS ARE USED, BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325 OR A490.
4. WELDING ELECTRODES SHALL MEET AWS REQUIREMENTS. WELD METAL SHALL MATCH OR EXCEED TENSILE STRENGTH OF PARENT METAL. ELECTRODES SHALL BE E70XX FOR SHIELDED METAL ARC, F7XX-EXXX FOR SUBMERGED ARC, AND E70-X FOR GAS METAL ARC, UNO.
5. **ALL STRUCTURAL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER IN ACCORDANCE WITH THE CURRENTLY ADOPTED EDITION OF AWS D1.1. SPECIAL INSPECTION REQUIRED FOR ALL WELDING PER ENGINEER OF RECORD. INSPECTIONS TO MEET THE REQUIREMENTS SET FORTH PER THE LOCAL BUILDING CODE.**
6. GROUT UNDER COLUMN BASE PLATES SHALL BE NON-FERROUS NON-SHRINK GROUT BY FIVE-STAR/US GROUT CORP, BURKE OR APPROVED EQUAL.
7. ALL PAINTED MEMBERS ARE REQUIRED TO HAVE MINIMUM DRY FILM THICKNESS OF 0.5 mil. OF PRIMER COAT AND 1.0 mil. OF FINISHED COAT FOR TOTAL OF 1.5 mil. DRY FILM THICKNESS.
8. ALL STRUCTURAL STEEL SURFACE PREPARATION TO BE HAND TOOL CLEANED, REMOVING ALL LOOSE MILL SCALES, LOOSE RUST, OIL, GREASE, FOREIGN MATTER, ETC., AND TO COMPLY WITH SPECIFICATION SSP6-SP2 (OR EQUAL) IN THE "PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL STRUCTURES".
9. FINISH PAINTING: ALL PAINTED SURFACES REQUIRE 2 COATS OF GRAY PRIMER. STRUCTURAL STEEL COLUMNS, COLUMN BASES, BEAMS AND MISCELLANEOUS SUPPORTS TO BE PAINTED WITH A FINISH COAT TO MEET ARCHITECTURAL REQUIREMENTS IF EXPOSED.
10. REFER TO ARCHITECTURAL DRAWINGS FOR FINISH COAT SPECIFICATION.

A16 STRUCTURAL STEEL NOTES AND SPECS

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11-24-25

DRAWN BY: KS
CHECKED BY: JFG

PRCTI20251723

AUTOZONE #10668
BUILDING ALTERATIONS
4423 SOUTH MERIDIAN
PUYALLUP, WASHINGTON 98373

PLOT DATE
11/24/2025 3:02 PM

JOB NUMBER
5255.2.1.25

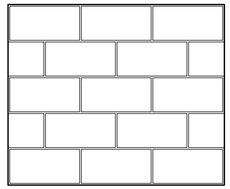
SCALE
AS NOTED

SHEET NUMBER
S0.1

X:\X\ZWORK45\525525 – AUTOZONE\5255.2.1.25 – PUYALLUP, WA (10668)\52552125-S0.1-16

K1 TYPICAL CMU WALL PATTERN

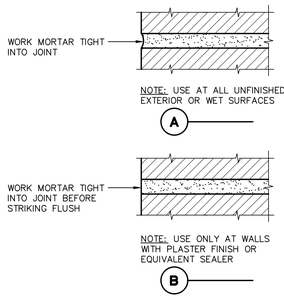
3/4"=1'-0"



TYPICAL ELEVATION
COMMON BOND PATTERN
SAD OTHERWISE

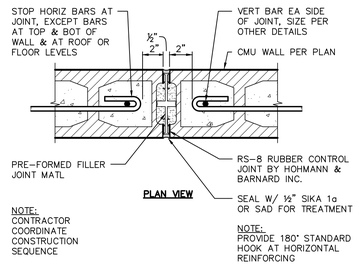
K4 TYPICAL CMU MORTAR JOINTS

NTS



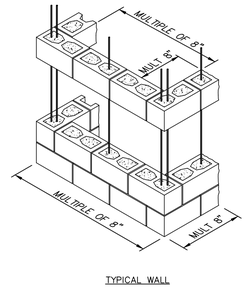
K7 CMU CONTROL JOINT (30'-8" MAX SPACING)

1½"=1'-0"



K10 TYPICAL CMU CORNER DETAILS

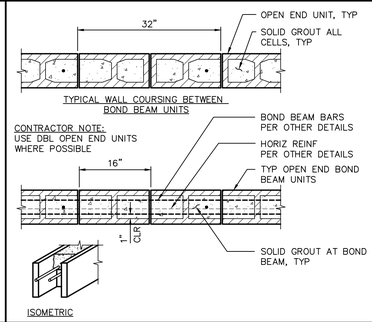
NTS



TYPICAL WALL

K13 TYPICAL CMU BOND BEAM COURSE

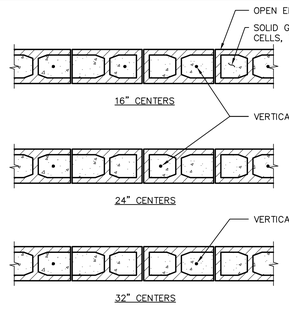
3/4"=1'-0"



ISOMETRIC

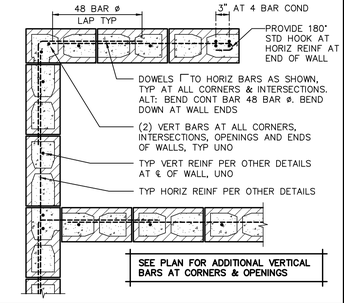
K16 VERTICAL STEEL PLACEMENT IN CMU

3/4"=1'-0"



G1 TYPICAL REINFORCING AT CORNER

3/4"=1'-0"



G4 (NOT USED)

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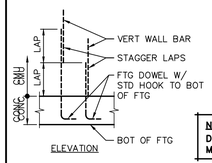
G10 TYPICAL CMU REINFORCING SPLICES

NTS

TYPICAL REBAR LAP SPLICES EXCEPT AS NOTED OTHERWISE	
BAR SIZE	LAP SPLICE
#4	30"
#5	32"
#6	36"
#7	42"
#8	48"
#9	54"

MIN CLEARANCES OF REINFORCING STEEL	
CMU TO REBAR	½" MIN
REBAR TO REBAR	2" MIN

NOTE: REFER TO (D4 / S0.1) FOR HOOKS & BENDS

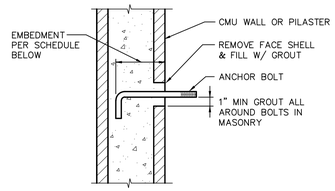


ELEVATION

NOTE:
DO NOT SPLICE REINFORCING IN MIDDLE ⅓ OF WALL HEIGHT, UNO

G13 BOLT INSTALLATION DETAIL

1½"=1'-0"



EMBEDMENT SCHEDULE		
8" CMU WALL EMBEDMENT	12" CMU WALL EMBEDMENT	16" PILASTER EMBEDMENT
5½"	9½"	13"

NOTE:
USE TEMPLATE TO SET ALL BOLTS.

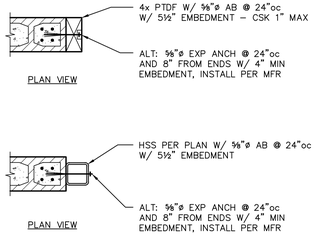
G16 (NOT USED)

–

D1 JAMB AT OPENINGS

SAD FOR ALTERNATE CONFIGURATION

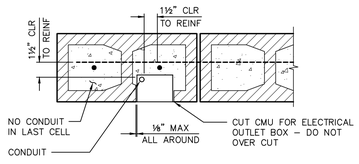
3/4"=1'-0"



D4 CONDUIT IN CMU

1½"=1'-0"

NOTES:
1. DO NOT TIE CONDUIT TO REINFORCING.
2. PLACE CONDUIT IN CELLS W/O REINF WHERE POSSIBLE.



D7 (NOT USED)

–

D10 (NOT USED)

–

D16 (NOT USED)

–

A1 (NOT USED)

–

A4 (NOT USED)

–

A7 (NOT USED)

–

A10 (NOT USED)

–

A13 MASONRY GENERAL NOTES

–

1. CONCRETE BLOCK SHALL BE NORMAL WEIGHT UNITS CONFORMING TO ASTM C90 HIGH STRENGTH, WITH MINIMUM PRISM STRENGTH f'm OF 2,000 psi.
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C150.
3. MORTAR SHALL BE TYPE S CONFORMING TO ASTM C270, WITH MINIMUM COMPRESSIVE STRENGTH OF 1,800 psi AT 28 DAYS. MORTAR SHALL BE FRESHLY PREPARED AND UNIFORMLY MIXED. MIX MORTAR AS REQUIRED TO ACHIEVE MINIMUM COMPRESSIVE STRENGTH. SUGGESTED MIX GUIDELINE: MIX BY WEIGHT; 1 PART PORTLAND CEMENT, ½ PART LIME PUTTY, AND 4½ PARTS SAND. IF PLASTIC TYPE CEMENT IS USED THE LIME PUTTY SHALL BE OMITTED. NOTE: FOR COMPRESSIVE STRENGTH GREATER THAN 1,800 psi, ADJUST MIX AS REQUIRED.
4. GROUT SHALL CONFORM TO ASTM C476, WITH MINIMUM COMPRESSIVE STRENGTH OF 2,500 psi AT 28 DAYS. GROUT SHALL BE OF FLUID CONSISTENCY. **GROUT ALL CELLS.** MIX GROUT AS REQUIRED TO ACHIEVE MINIMUM COMPRESSIVE STRENGTH. SUGGESTED MIX GUIDELINE: MIX BY WEIGHT; 1 PART CEMENT, 3 PARTS SAND, 2 PARTS PEA GRAVEL. NOTE: FOR COMPRESSIVE STRENGTH GREATER THAN 2,500 psi, ADJUST MIX AS REQUIRED.
5. THE THICKNESS OF GROUT BETWEEN BLOCK UNITS AND REINFORCING STEEL SHALL NOT BE LESS THAN ½" AND BETWEEN ADJACENT REINFORCING BARS NOT LESS THAN ¾".
6. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM (A615M–40) FOR #4 BARS AND SMALLER AND ASTM (A615M–60) FOR #5 BARS AND LARGER. WIRE REINFORCEMENT SHALL CONFORM TO ASTM A82.
7. IF WORK IS STOPPED ONE HOUR OR LONGER, PROVIDE HORIZONTAL CONSTRUCTION JOINTS BY STOPPING GROUT 1½" BELOW THE TOP OF THE BLOCK.
8. **SPECIAL INSPECTION PER SECTION 1704 OF THE 2021 IBC BY AN INSPECTOR APPROVED BY THE ENGINEER AND THE APPLICABLE BUILDING DEPARTMENT IS REQUIRED, UNLESS OTHERWISE NOTED.**
   A. PERIODIC INSPECTION REQUIRED AT THE START OF LAYING OF UNITS, TAKING OF TEST PRISMS OR SPECIMENS AND LAYING OF UNITS. INSPECT REINFORCING PLACEMENT AND GROUT SPACES PRIOR TO AND DURING ALL GROUTING INSTALLATION. REFER TO (A7 / S0.1).
9. USE DOUBLE OPEN END UNITS WHERE POSSIBLE AND SINGLE OPEN END UNITS OTHERWISE.
10. PROVIDE AN INVERTED BOND COURSE AT THE FOUNDATION LEVEL AND AT THE BOTTOM OF EACH LIFT TO FACILITATE CLEAN OUT. CLEAN OUTS SHALL BE PROVIDED AS NECESSARY IN THE BOND UNIT LEVEL.
11. DOWELS FROM FOUNDATION ARE TO MATCH SIZE AND SPACING OF WALL REINFORCING. ALIGN, LAP AND TIE DOWELS TO VERTICAL WALL REINFORCING. PROVIDE MINIMUM LAP SPECIFIED WITH ALL DOWELS EXTENDING TO LOWEST FOUNDATION REINFORCING AND ENDING WITH A STANDARD HOOK.
12. SET ALL LEDGER AND HARDWARE BOLTS WITH TEMPLATES. REMOVE CMU FACE SHELL 1" LARGER THAN BOLT DIAMETER AND FILL WITH GROUT. REFER TO (G13 / –).
13. SAD FOR CMU FINISH TYPE, LOCATION, COLOR, ETC.
14. PROVIDE VERTICAL CONTROL JOINTS AT 30'–8"oc MAX PER (K7 / –) UNO, OR AS SHOWN ON PLAN.

CONTRACTOR NOTE
Special inspection report shall be provided at the next city inspection.

DLR ENGINEERS INC.
P.O. Box 717, Winlock, CA 95693
(707) 838-1565 FAX (707) 838-1970

SEAL AND SIGNATURE APPLIED PURSUANT TO CHAPTER 196-23 WAC SECTIONS 010, 020, AND 010.

JACOB F. GARZINI
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER

EXPIRATION: 05-09-26
DATE SIGNED: 11-24-25

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
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11-24-25	
DRAWN BY: KS	
CHECKED BY: JFG	

PRCTI20251723

AUTOZONE #10668
BUILDING ALTERATIONS
4423 SOUTH MERIDIAN
PUYALLUP, WASHINGTON 98373

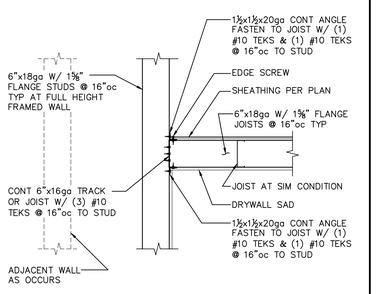
PLOT DATE
11/24/2025 3:02 PM

JOB NUMBER
5255.2.1.25

SCALE
AS NOTED

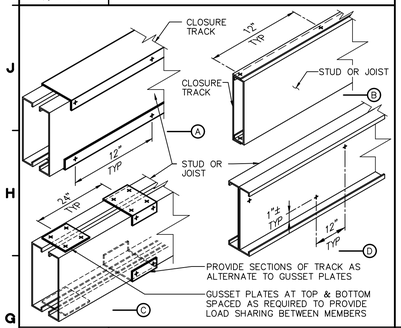
SHEET NUMBER
S0.2

X:\X\ZWORK45\525525 – AUTOZONE\5255.2.1.25 – PUYALLUP, WA (10668)\52552125-S0.2-16



K1 DETAIL

¾"=1'-0"



G1 TYPICAL MULTIPLE MEMBER CONFIG

NTS

G4 LIGHT GAUGE NOTES and SPECS

1. LOAD-BEARING STEEL STUD FRAMING SHALL CONFORM TO RECOMMENDED STANDARDS OF THE AMERICAN IRON AND STEEL INSTITUTE, UNLESS NOTED OTHERWISE.
2. GALVANIZED STEEL MUST MEET THE MINIMUM REQUIREMENTS OF ASTM A653 GRADE 50 (Fy=50ksi) FOR 12 GAUGE, ASTM A653 GRADE 50 (Fy=50ksi) OR ASTM A653 GRADE 33 (Fy=33ksi) FOR 14 AND 16 GAUGE, AND ASTM A653 GRADE 33 (Fy=33ksi) FOR 18 GAUGE AND LIGHTER FOR THE ITEM AND USE INTENDED. GALVANIZED COATINGS MUST MEET THE ASTM A924 SPECIFICATION.

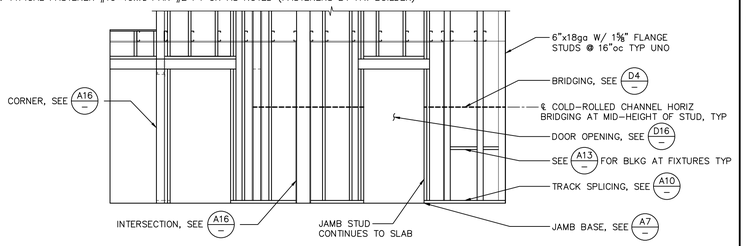
   NOTE: CARBON SHEET STEEL MUST MEET THE MINIMUM REQUIREMENTS OF ASTM A570 GRADE 50ksi FOR 12 GAUGE, ASTM A570 GRADE 50ksi OR GRADE 33ksi FOR 14 AND 16 GAUGE AND GRADE 33ksi FOR 18 GAUGE AND LIGHTER MEMBERS. CARBON SHEET STEEL PRODUCTS MUST BE THOROUGHLY COATED WITH A RUST INHIBITIVE PAINT.
3. ALL MATERIALS AND WORK TO CONFORM TO MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS UNO.
4. WELDING ELECTRODES: AWS A5.1 E 6013 RODS, AWS A5.18 (GAS METAL ARC).
5. PRIMER: FS TT-P-664, COMPOSITION G - GENERAL USE.
6. ALL LIGHT GAUGE STUDS AND JOISTS SHALL BE SUPPLIED BY CLARK DIETRICH CORPORATION OR EQUAL. PHONE: (800) 365-5284.
7. ALL MATERIAL SUPPLIED BY CLARK DIETRICH IS COVERED UNDER ICC-ESR REPORT #1166P & RR-25889.
8. SCREWS:
   A. ITW BUILDEX TEKS SELF-DRILLING FASTENERS OR EQUAL. USE #10-16 x⅞" PAN OR HWH FOR METAL TO METAL ATTACHMENTS AND #10-24 x1¼" OR #10-24 x1" WAFER HEAD FOR SHEATHING ATTACHMENT. SCREWS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE FULL PENETRATION INTO ALL MEMBERS AT CONNECTIONS. (USED UNDER RR-25915)
   B. SCREW MINIMUM EDGE DISTANCE IS ⅜" IN ALL MEMBERS. MINIMUM SPACING IS 1".

G7 (NOT USED)

–

NOTES:
1. JAMB MEMBERS MUST BE CARRIED DOWN ALL WALLS TO FOUNDATION TYP.
2. STUD WEB PENETRATIONS, SEE (D7)
3. TYPICAL FASTENER #10-16x½ PAN #2 PT OR AS NOTED (FASTENERS BY ITW BUILDEX)

SEE ARCH DRAWINGS FOR EXACT LAYOUT



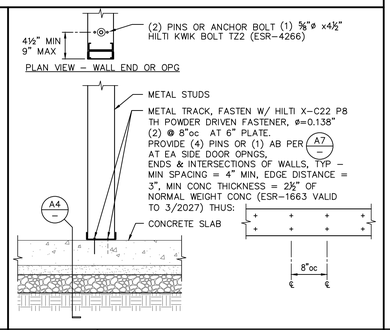
K7 TYPICAL WALL FRAMING ELEVATION

NTS

ALSO REFER TO (A13) (G1) (G4) (G13) (G16)

G10 NON-BEARING STUD WALL

¾"=1'-0"



G13 PLYWOOD SHEATHING NOTES

–

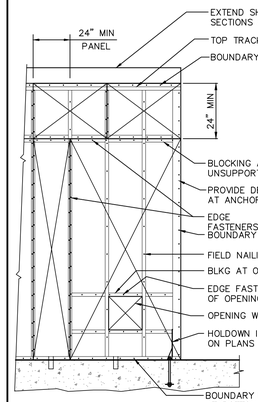
INSTALLATION:

1. STRUCTURAL FLOOR, ROOF & WALL SHEATHING:
   A. INSTALL SHEATHING WITH FACE GRAIN PARALLEL TO SUPPORTS AT WALL FRAMING ONLY. STAGGER JOINTS PARALLEL TO THE LONG AXIS (UNO). INSTALLATION PERPENDICULAR ALSO ACCEPTABLE (BLOCK UNSUPPORTED EDGES), VERIFY WITH ENGINEER. INSTALL PERPENDICULAR ELSEWHERE.
   B. ALLOW 1/8" MINIMUM SPACE BETWEEN END JOINTS AND ⅛" AT EDGE JOINTS FOR EXPANSION AND CONTRACTION OF PANELS.
   C. SUITABLE EDGE SUPPORT SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS BY BLOCKING BETWEEN FRAMING.
   D. PANEL END JOINTS TO OCCUR OVER FRAMING.
   E. SEE PLAN FOR FASTENER REQUIREMENTS. FASTENER HEADS SHALL BE SET FLUSH WITH SHEATHING FACES. ALL JOINTS OF SHEATHING SHALL BE ON SOLID BEARING. SURFACES SHALL BE FREE FROM WARP, TWIST, BUCKLES, HOLES AND OTHER DEFECTS. SHEATHING SHALL BE APPLIED WITH JOINTS IN LOCATIONS SHOWN ON DRAWINGS.
2. FOUNDATION TRACKS:
   A. SET LEVEL TO 1/16" IN 6 FEET. GROUT SHALL BE USED WHEN NECESSARY TO ACHIEVE FULL BEARING.
   B. SECURE SILLS WITH PINS ANCHORS OR BOLTS EMBEDDED IN THE STRUCTURAL SLAB PER TYPICAL DETAILS, PROVIDE ADDITIONAL OR OTHER ANCHORAGE AS REQUIRED ON THE DRAWINGS, 2 INCHES FROM ENDS.
   C. SILLS SHALL BE SET TO THE EXACT DIMENSIONS SHOWN ON THE DRAWINGS WITH A TOLERANCE OF ⅛" IN EITHER DIRECTION. THE OWNER SHALL BE IMMEDIATELY NOTIFIED IF THIS CONDITION WOULD BE VIOLATED.
   D. ALLOW NO CROOKS OR WAVES IN SILLS THAT WILL NOT PROVIDE STRAIGHT LINE FOR STUD WORK.
3. WALL BLOCKING:
   A. ENCLOSED SPACES IN STUD WALL SHALL BE BLOCKED AT MIDPOINT IN WALLS MORE THAN 8 FEET HIGH (UNO).
   B. LOCATE ADEQUATE BLOCKING AND BACKING TO FACILITATE THE FIRM INSTALLATION OF FINISHING MATERIALS, PLUMBING FIXTURES, LIGHTING FIXTURES, TOILET PARTITIONS, SPECIALTY ITEMS AND TRIM.

4. NOTCHING AND DRILLING HOLES NOTE:
A. NOTCHING AND DRILLING HOLES IN STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT PRIOR REVIEW OF THE ENGINEER UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.

G16 TYPICAL PLYWOOD PANEL LAYOUT

NTS



NOTES:

1. ALL FASTENERS TO HAVE A MINIMUM OF ⅜" EDGE DISTANCE.
2. PROVIDE STUDS AND BLOCKING AT ALL SHEATHING JOINTS UNLESS NOTED OTHERWISE.
3. PROVIDE BOUNDARY FASTENERS AT ALL DOUBLE STUDS, ENDS OF WALLS AND EDGES OF ALL OPENINGS.
4. LONG DIRECTION OF SHEATHING SHEETS TO RUN PARALLEL TO STUDS, REFER TO (G13) NOTE #1

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DCE ENGINEERS INC.
P.O. Box 717, Winfield, CA 95693
(707) 838-1565 FAX #(707) 838-1970

SEAL AND SIGNATURE APPLIED PURSUANT TO CHAPTER 196-23 WAC SECTIONS 010, 020, AND 010.

JACOB F. GARZINI — STATE OF WASHINGTON — 24010 — REGISTERED PROFESSIONAL ENGINEER

EXPIRATION: 05-09-26
DATE SIGNED: 11-24-25

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PUYALLUP, WASHINGTON 98373

PLOT DATE
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AS NOTED

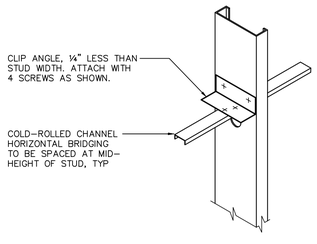
SHEET NUMBER
S0.3

D1 (NOT USED)

–

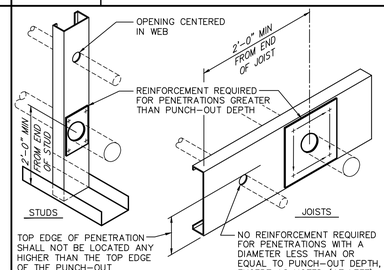
D4 TYPICAL WALL BRIDGING

NTS



D7 JOIST, STUD, WEB PENETRATIONS

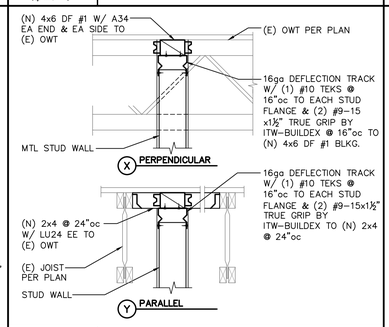
NTS



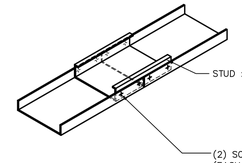
NOTES:
1. FLANGES SHALL NOT BE NOTCHED OR CUT
2. FOR UNPUNCHED MEMBERS CONSULT THE MANUFACTURER

D10 NON-BEARING STUD WALL

¾"=1'-0"

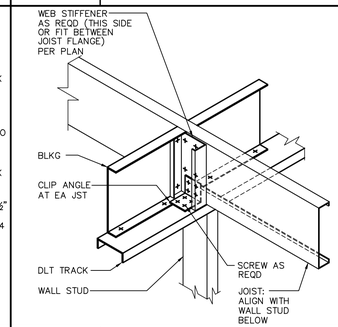


STRUCTURAL PLAN SPECIFICATIONS TAKE PRECEDENCE OVER THESE SHOWN HERE OR ON ANY STANDARD SCHEDULE



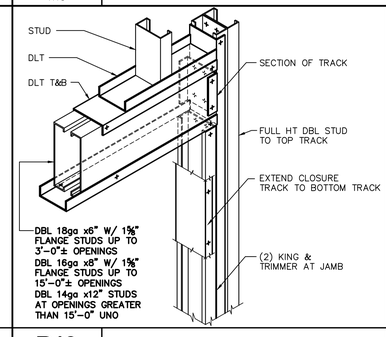
D13 TOP OF INTERIOR WALL PERPENDICULAR TO JOISTS

NTS



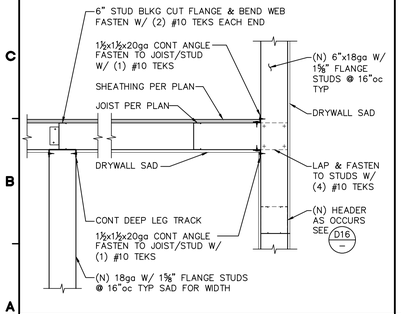
D16 TYPICAL BEARING JAMB and HEAD

NTS



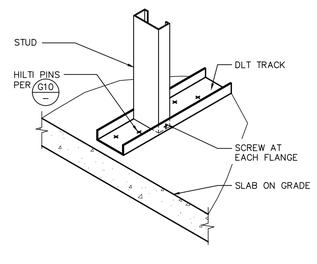
A1 DETAIL

¾"=1'-0"



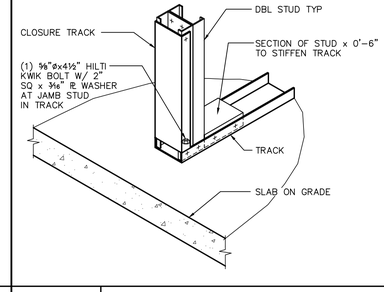
A4 BASE OF WALL AT SLAB ON GRADE

NTS



A7 TYPICAL DOOR JAMB AT SLAB

NTS

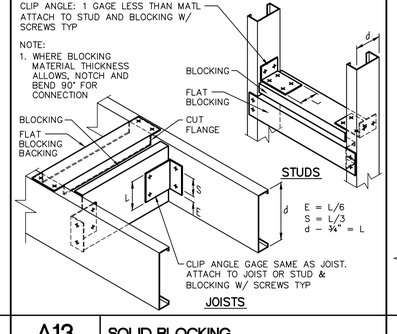


A10 TOP AND BOTTOM TRACK SPLICE

NTS

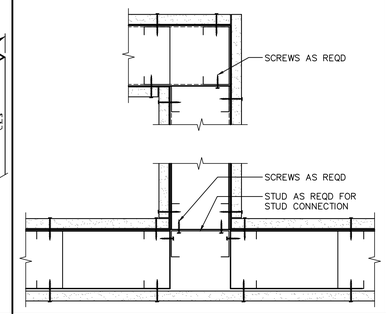
A13 SOLID BLOCKING

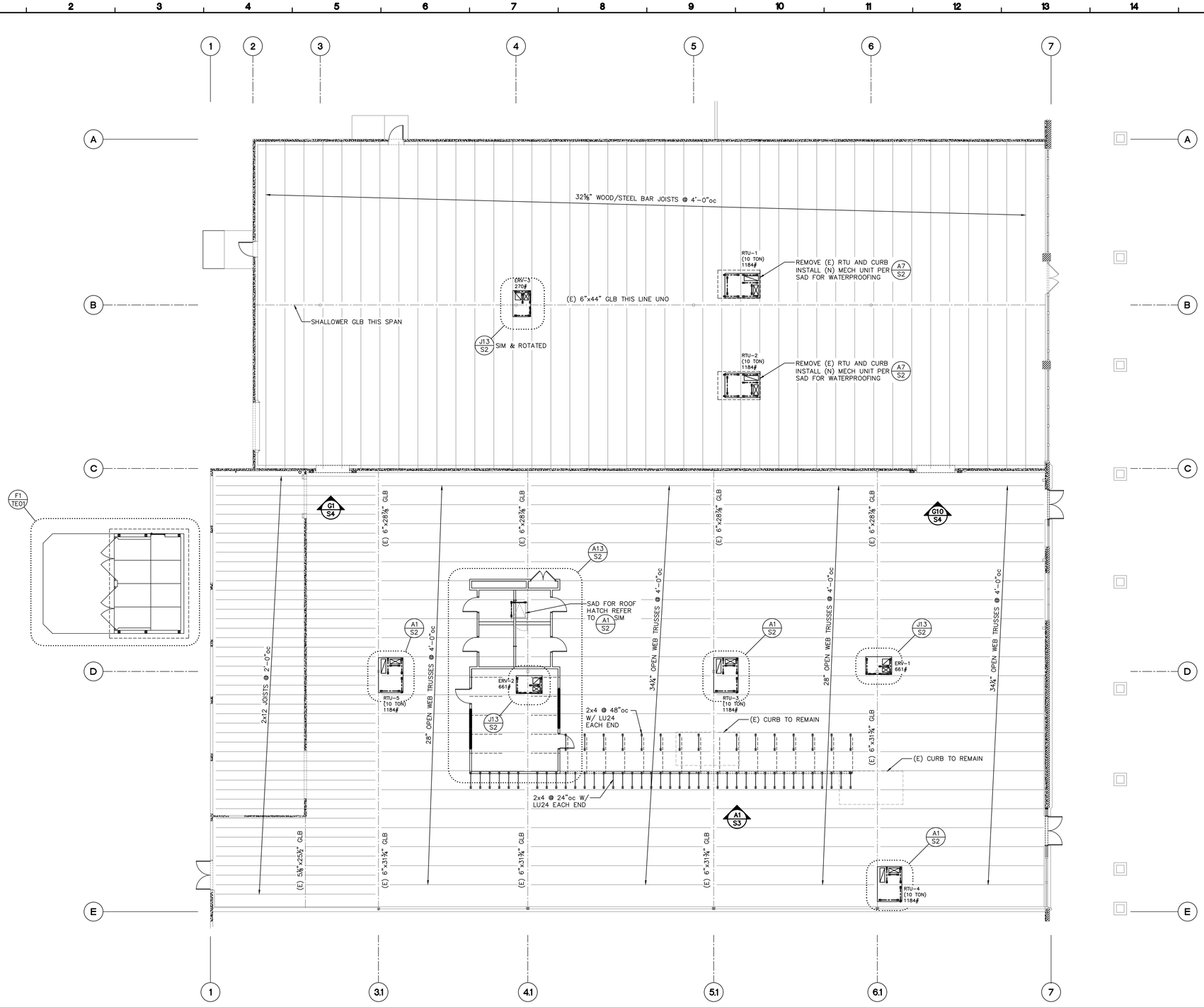
NTS



A16 WALL INTERSECTION and CORNER

NTS





A1 ALTERATION PLAN

ALSO REFER TO A16 – D16 – G16 –

3/32"=1'-0"

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

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE 2021 INTERNATIONAL BUILDING CODE (IBC) AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK.
2. CONFORMS TO 2021 IBC, LOCAL & OTHER APPLICABLE CODES.
3. SITE WORK BY OTHERS.
4. DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING WORK. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS. TYPICAL DETAILS AND GENERAL NOTES ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE.
5. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN CONSTRUCTION SHALL BE OF SAME NATURE AS SIMILAR CONDITIONS ON THE PROJECT.
6. ELEVATIONS SHOWN ON PLANS AND DETAILS ARE TO HEIGHTS ABOVE FINISHED GROUND FLOOR ELEVATION REFERENCE 0'-0".
7. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE OWNER/ ENGINEER TO BE NOTIFIED OF ANY DISCREPANCY BEFORE PROCEEDING WITH THE WORK.
8. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOFS. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING FOR TEMPORARY LOADS.
9. ALL SHORING AND BRACING DESIGN, MATERIALS AND INSTALLATION SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. SHORING AND BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY AND UNTIL STRUCTURAL CONSTRUCTION IS COMPLETE.
10. LOCATIONS OF DRAINS, PIPES, CONDUIT, EQUIPMENT, DUCTS, ETC. SHOWN ON DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR TO ADJUST ROUTING AND LAYOUT TO CONFORM TO REQUIREMENTS SHOWN ON STRUCTURAL AND ARCHITECTURAL DRAWINGS.
11. THE ENGINEER IS NOT IN RESPONSIBLE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN ASSOCIATION WITH THE WORK, FOR THE ACTS OF OR OMISSIONS BY THE CONTRACTOR, SUBCONTRACTOR OR ANY PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

G16 GENERAL NOTES

–

1. REFER TO FOLLOWING SHEETS FOR STANDARD DETAILS OF CONSTRUCTION, FOR MIN REQUIREMENTS FOR CONDITIONS & MATERIALS NOT NOTED BUT AS OCCURS THROUGHOUT THE PROJECT. SAD FOR SPECIFICATIONS, MATERIALS, AND METHODS.
2. BUILDING DIMENSIONS SHOWN ARE FOR GENERAL REFERENCE ONLY. SAD FOR ALL ACTUAL BUILDING DIMENSIONS. ANY DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER SO CLARIFICATION CAN BE MADE.
3. DETAILS NOT FULLY SHOWN SHALL BE OF SAME NATURE AS OTHER SIMILAR CONDITIONS.
4. SUBMIT ENGINEERING FOR DEFERRED APPROVAL ITEMS TO ARCHITECT FOR REVIEW AND BUILDING DEPARTMENT APPROVAL PRIOR TO FABRICATION. MANUFACTURER TO PROVIDE CERTIFIED DRAWINGS AND CALCULATIONS.

D16 BUILDING NOTES

–

ROOF LIVE LOAD–REDUCIBLE		= 20 psf
ACCESSIBLE CEILING LOADS PER TBL 1607.1–(28)		= 200 lb. POINT LOAD
SNOW LOAD		= P_g = 20 psf
		= P_{ROOF} = 20 psf
BASIC WIND SPEED (3–SECOND GUST)		= 97 mph
WIND – BUILDING RISK CATEGORY		= II
WIND EXPOSURE FACTOR	Exp	= C
INTERNAL PRESSURE COEFF (ENCLOSED)	GCpi	= ±0.18
COMPONENTS AND CLADDING PRESSURE		= SEE CALCS FOR ZONE

SEISMIC DESIGN PARAMETERS–EQUIVALENT LATERAL FORCE PROCEDURE

SEISMIC FORCE RESISTING SYSTEM = SPECIAL REINFORCED MASONRY SHEARWALL

SITE CLASS = D–DEFAULT
SEISMIC DESIGN CAT = D BLDG OCC CAT = II

S_S	= 1.259	α_P	= 2.5 (MECH UNITS)
S_1	= 0.435	α_P	= 1.0 (NON–STRUCTURAL WALLS)
S_{DS}	= 1.007	R_P	= 6.0 (MECH UNITS)
S_{D1}	= N/A	R_P	= 2.5 (NON–STRUCTURAL WALLS)
		I_P	= 1.0
		Cs	= N/A
		V_{ASD}	= N/A W
		$F_{P\ ASD}$	= 0.353W_P (MECH UNITS)
		$F_{P\ ASD}$	= 0.339W_P (NON–STRUCTURAL WALLS)
		$F_{P\ ASD}$	= 0.283W_P (OUT–OF–PLANE FORCES)

A16 2021 IBC DESIGN CRITERIA

–

DLE ENGINEERS INC.
P.O. Box 717, Winters, CA 95694
(707)838-1505 FAX #(707)838-1970

SEAL AND SIGNATURE APPLIED PURSUANT TO CHAPTER 196–23 WAC SECTIONS 010, 020, AND 010.

JACOB F. GARZINI — STATE OF WASHINGTON — 24877 — REGISTERED PROFESSIONAL ENGINEER

EXPIRATION: 05–09–26
DATE SIGNED: 11–24–25

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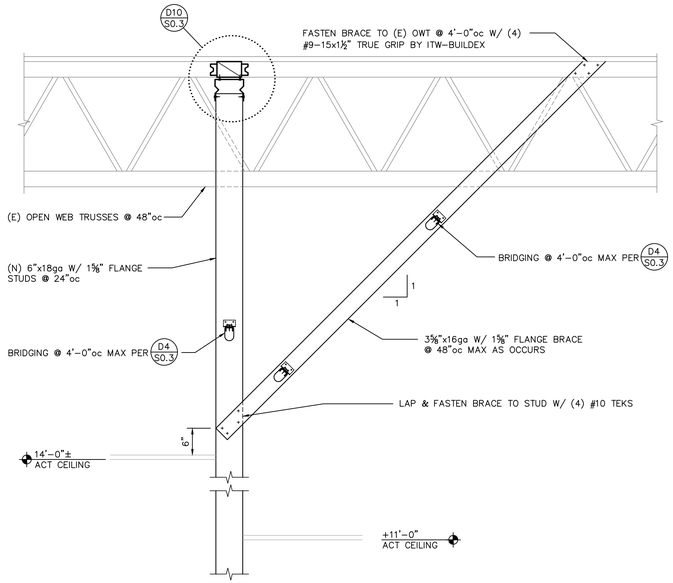

G1 DETAIL

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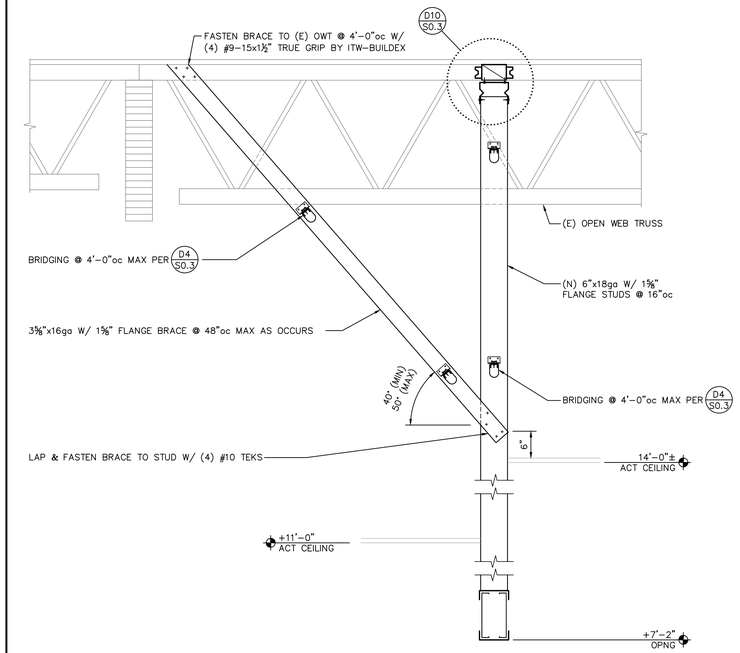
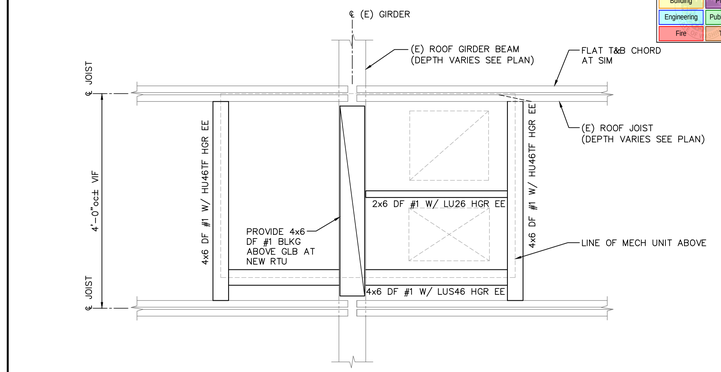


G7 DETAIL

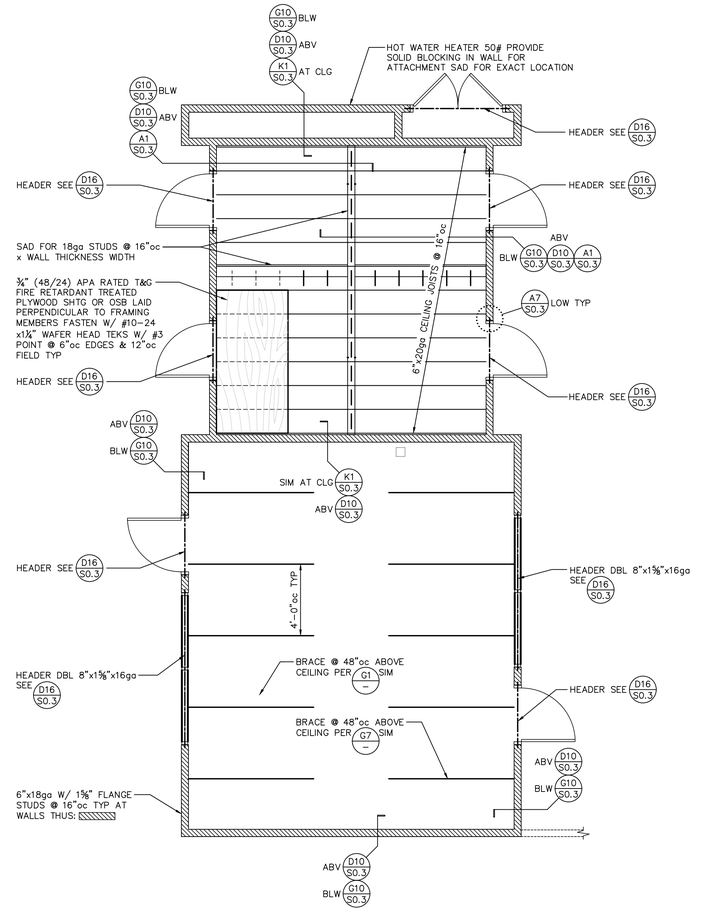
¾"=1'-0"



J13 DETAIL

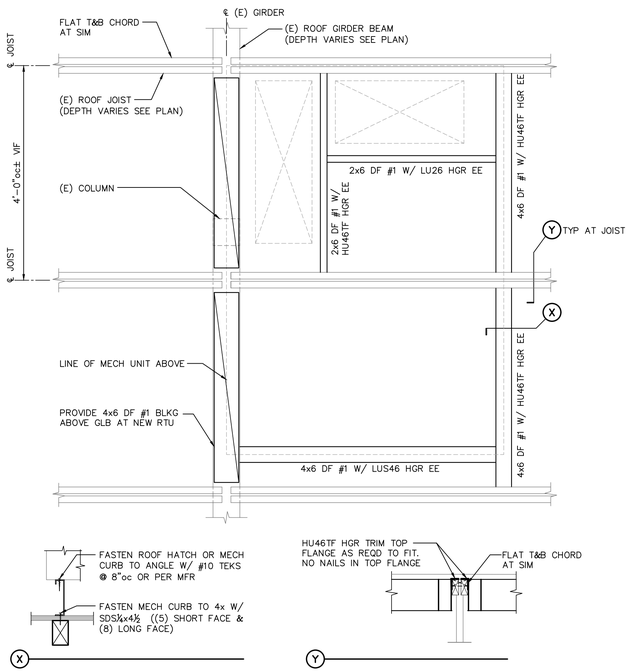
¾"=1'-0"

ALSO SEE A1 – G7 S3



A13 CEILING FRAMING PLAN

½"=1'-0"



A1 DETAIL

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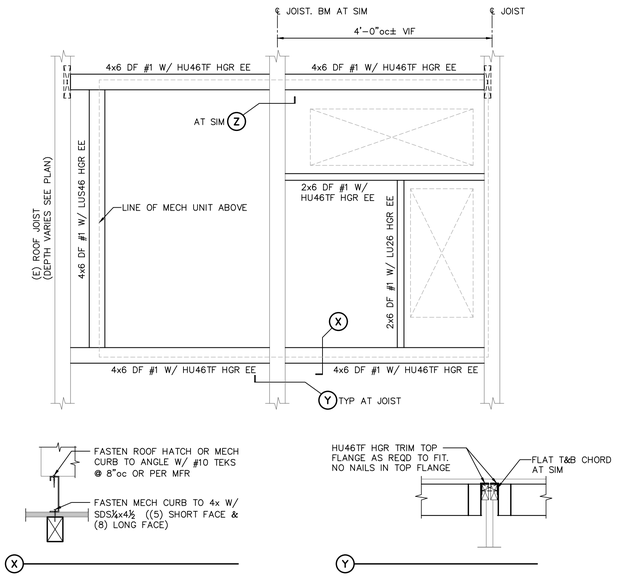

A7 DETAIL

¾"=1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

DLR ENGINEERS INC.
P.O. Box 717, Winlock, WA 98596
(360) 785-1565 FAX (360) 785-1970

SEAL AND SIGNATURE APPLIED PURSUANT TO CHAPTER 196-23 WAC SECTIONS 010, 020, AND 010.

JACOB F. GARZINI
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER

EXPIRATION: 05-09-26
DATE SIGNED: 11-24-25

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CHECKED BY:	JFG

11-24-25

PRCTI20251723

AUTOZONE #10668
BUILDING ALTERATIONS
4423 SOUTH MERIDIAN
PUYALLUP, WASHINGTON 98373

PLOT DATE
11/24/2025 3:02 PM

JOB NUMBER
5255.2.1.25

SCALE
AS NOTED

SHEET NUMBER
S2

X:\X\ZWORK45\525525 – AUTOZONE\5255.2.1.25 – PUYALLUP, WA (10668)\52552125-S2-48

G1 (NOT USED)

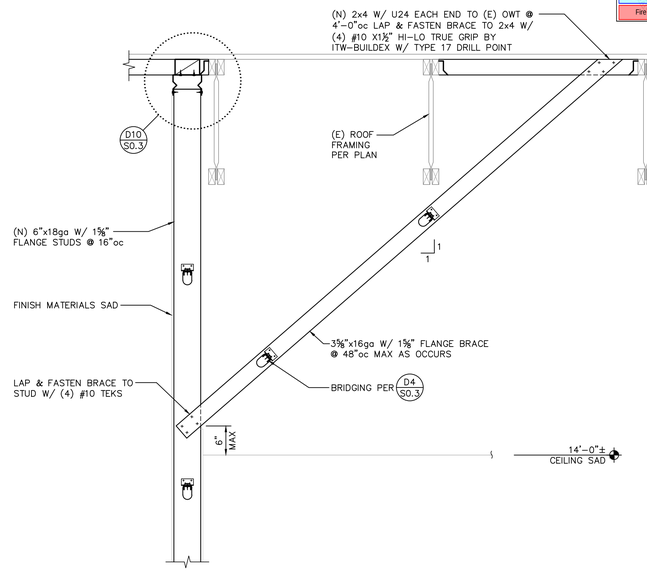
–

G7 (NOT USED)

–

G13 DETAIL

¾"=1'-0"



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

DLR ENGINEERS INC.
P.O. Box 712, Windsor, CA 95492
(707) 838-1565 FAX #(707) 838-1970

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JACOB F. GARZINN
STATE OF WASHINGTON
24012
REGISTERED
PROFESSIONAL ENGINEER

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DRAWN BY:	KS
CHECKED BY:	JFG

11-24-25

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3	
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5	
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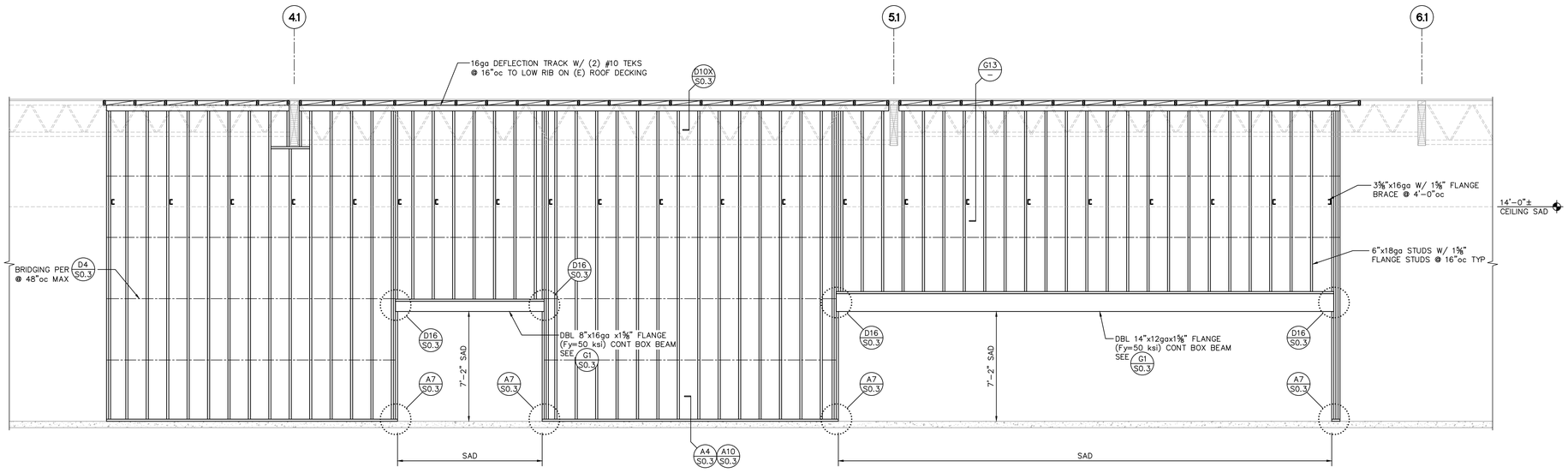
7	

PRCTI20251723



AUTOZONE #10668

BUILDING ALTERATIONS
4423 SOUTH MERIDIAN
PUYALLUP, WASHINGTON 98373

PLOT DATE
11/24/2025 3:02 PM

JOB NUMBER
5255.2.1.25

SCALE
AS NOTED

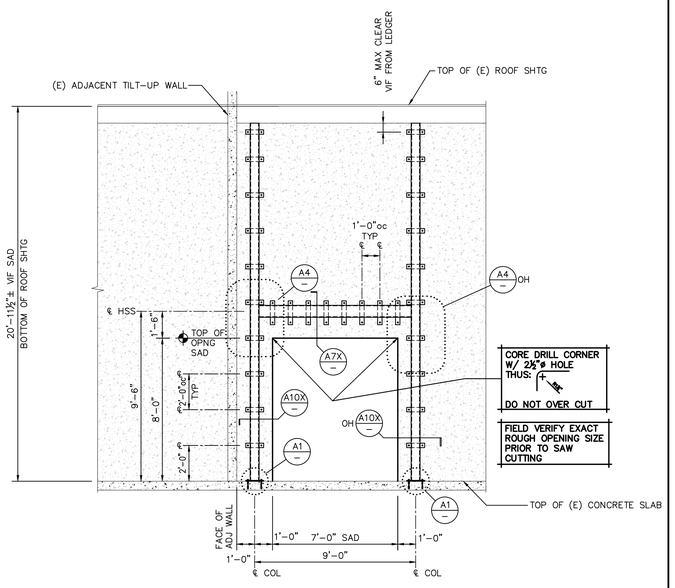
SHEET NUMBER
S3

A1 INTERIOR WALL FRAMING ELEVATION

¼"=1'-0"

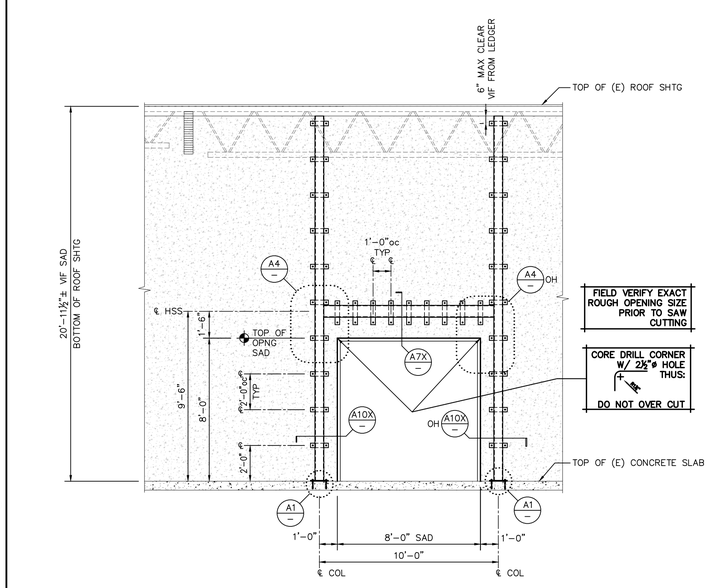
ALSO REFER TO (*) S0.3 AS OCCURS

X:\X\ZWORK45\525525 - AUTOZONE\5255.2.1.25 - PUYALLUP, WA (10668)\52552125-S3-48



G1 INTERIOR WALL FRAMING ELEVATION

¼"=1'-0"



G7 INTERIOR WALL FRAMING ELEVATION

¼"=1'-0"

K13 (NOT USED)

–

K16 (NOT USED)

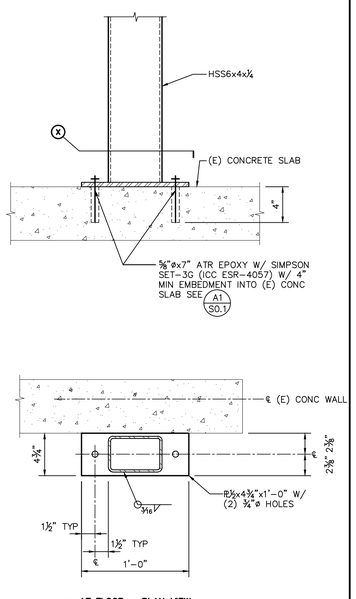
–

G13 (NOT USED)

–

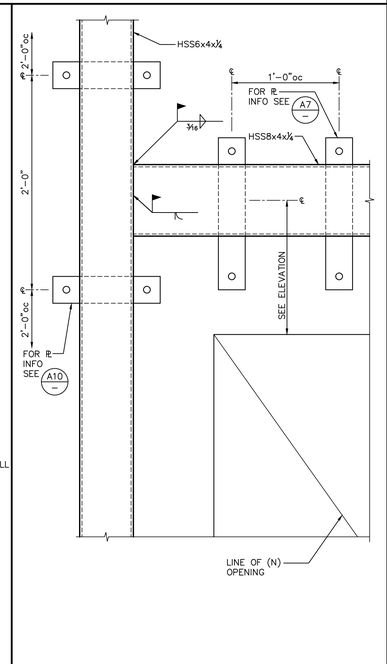
G16 (NOT USED)

–



A1 DETAIL

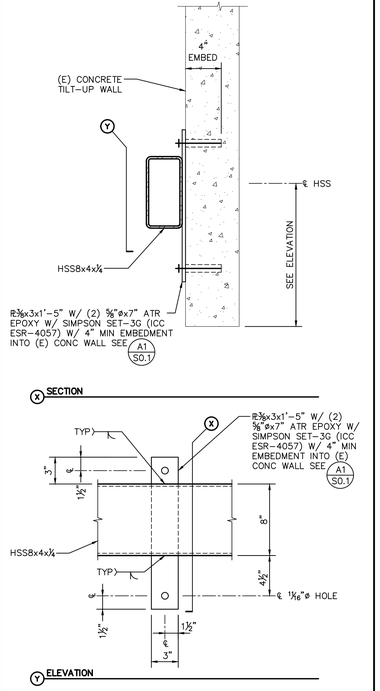
1½"=1'-0"



A4 DETAIL

ALSO REFER TO A7 S0.1 A16 S0.1

1½"=1'-0"



A7 DETAIL

ALSO REFER TO A7 S0.1 A16 S0.1

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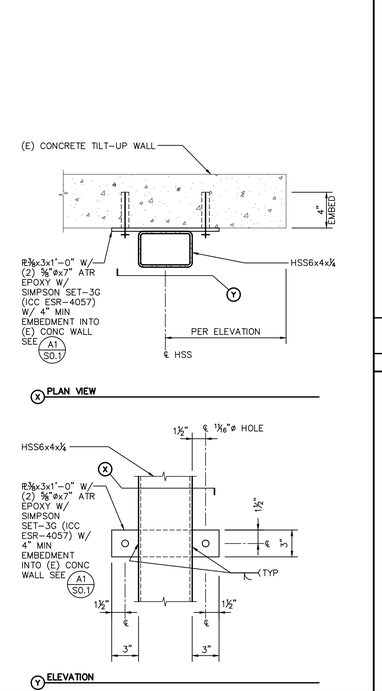

A10 DETAIL

ALSO REFER TO A7 S0.1 A16 S0.1

1½"=1'-0"

D13 (NOT USED)

–

D16 (NOT USED)

–

A13 (NOT USED)

–

A16 (NOT USED)

–

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

DLF ENGINEERS INC.
P.O. Box 712, Winfield, CA 95693
(707) 838-1565 FAX (707) 838-1970

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JACOB F. GARZINI
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER

EXPIRATION: 05-09-26
DATE SIGNED: 11-24-25

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11-24-25	
DRAWN BY: KS	
CHECKED BY: JFG	

PRCTI20251723

AUTOZONE #10668

BUILDING ALTERATIONS
4423 SOUTH MERIDIAN
PUYALLUP, WASHINGTON 98373

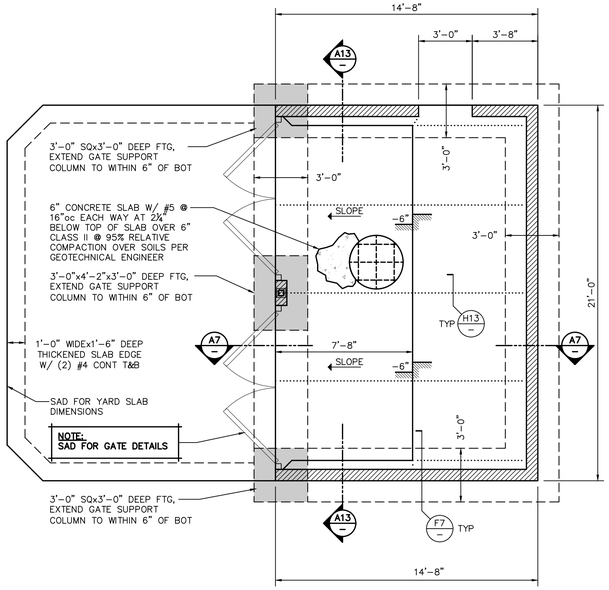
PLOT DATE
11/24/2025 3:32 PM

JOB NUMBER
5255.2.1.25

SCALE
AS NOTED

SHEET NUMBER
S4

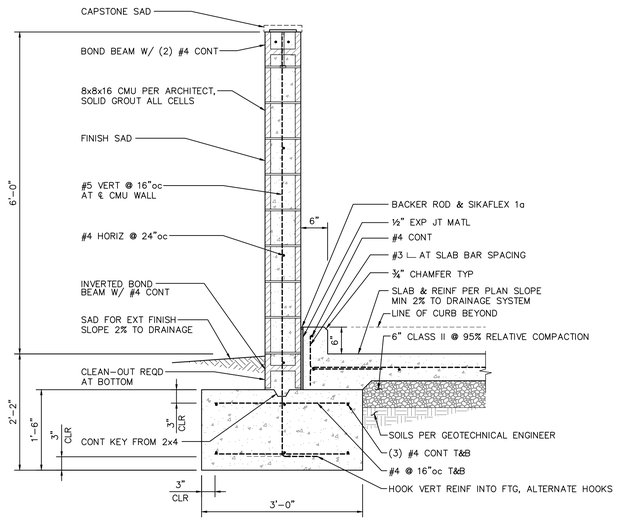
X:\X\ZWORK45\525525 – AUTOZONE\5255.2.1.25 – PUYALLUP, WA (10668)\52552125-S4-48



F1 TRASH ENCLOSURE FOUNDATION PLAN

ALSO REFER TO S0.1 S0.2

1/4"=1'-0"

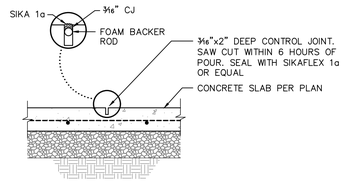


F7 DETAIL

3/4"=1'-0"

K13 (NOT USED)

1½"=1'-0"



H13 DETAIL

NTS

F13 (NOT USED)

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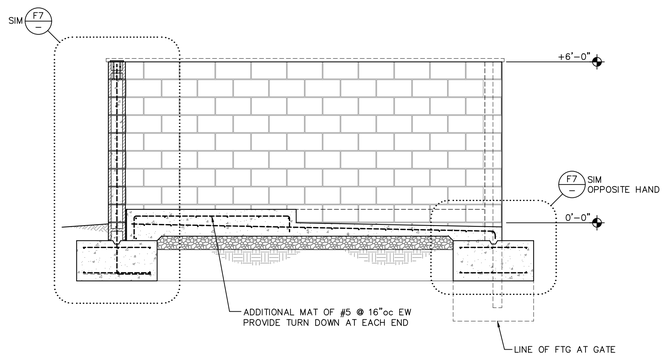
F16 (NOT USED)

–

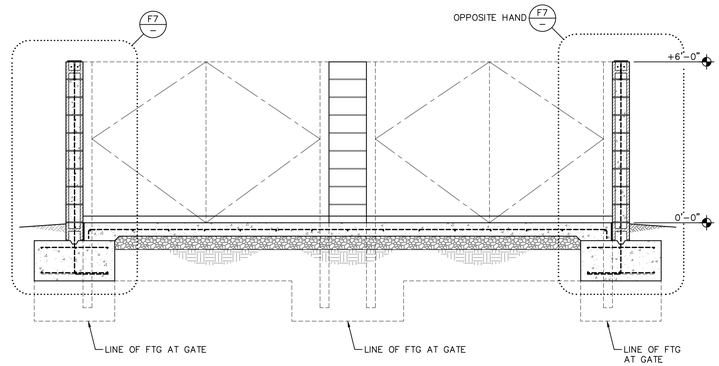
A1 (NOT USED)

–



A7 SECTION

3/8"=1'-0"



A13 SECTION

3/8"=1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

DLF ENGINEERS INC.
P.O. Box 717 Woodway, CA 95492
(707) 838-1505 FAX (707) 838-1970

SEAL AND SIGNATURE APPLIED PURSUANT TO CHAPTER 196-23 WAC SECTIONS 010, 020, AND 010.

JACOB F. GARZINN
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER

EXPIRATION: 05-09-26
DATE SIGNED: 11-24-25

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DRAWN BY:	KS
CHECKED BY:	JFG
11-24-25	
12-01-2025	AUTOZONE COMMENTS

PRCTI20251723

AUTOZONE #10668
BUILDING ALTERATIONS
4423 SOUTH MERIDIAN
PUYALLUP, WASHINGTON 98373

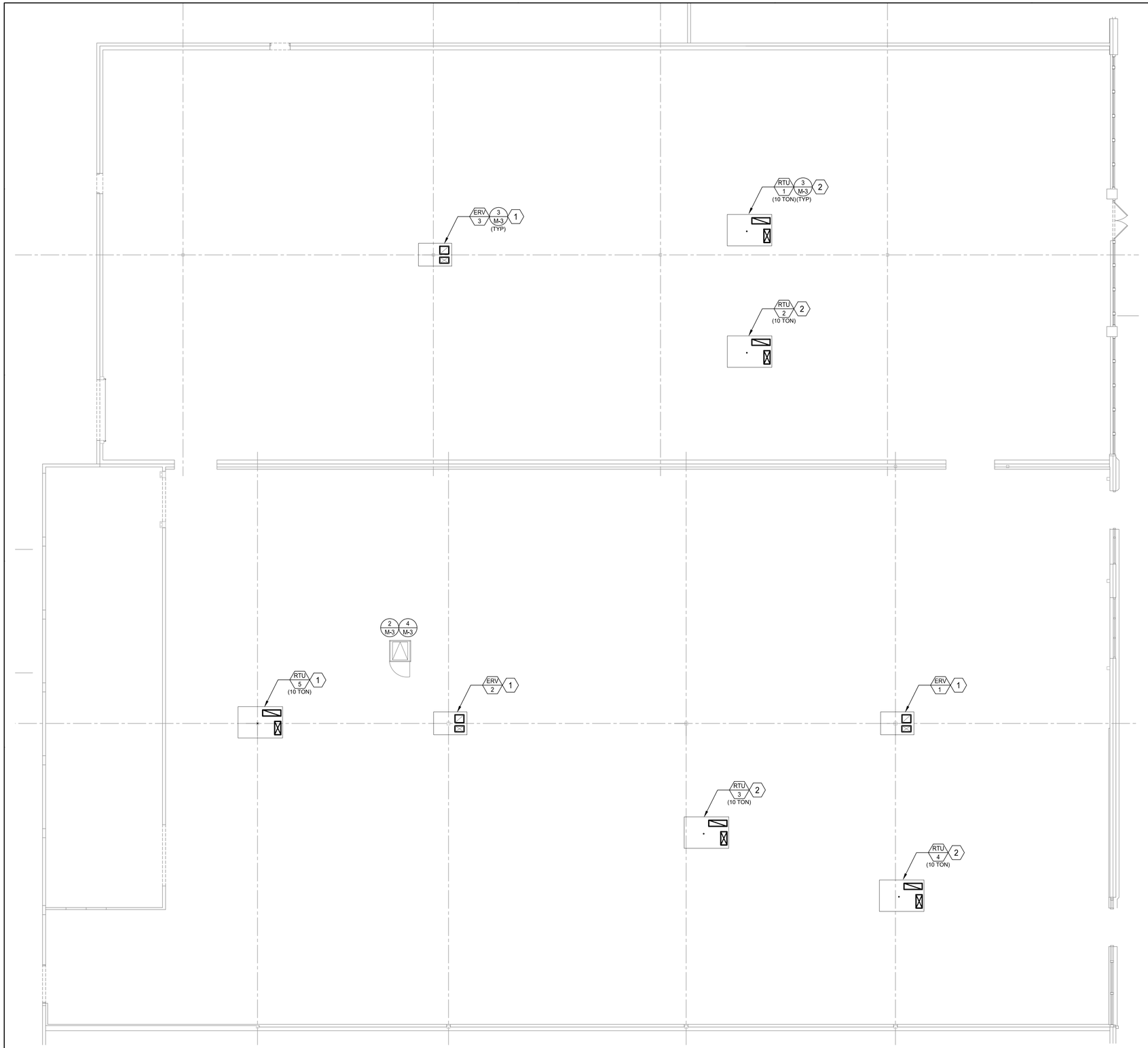
PLOT DATE
12/01/2025 10:44 AM

JOB NUMBER
5255.2.1.25

SCALE
AS NOTED

SHEET NUMBER
TE01

X:\X\ZWORK45\525525 - AUTOZONE\5255.2.1.25 - PUYALLUP, WA (10668)\52552125-TE01-48



1 MECHANICAL ROOF PLAN
SCALE: 1/8"=1'-0"

MECHANICAL NOTES -DESIGN PARAMETERS
1. MECHANICAL CODE: 2021 WASHINGTON MECHANICAL CODE
2. OUTSIDE AIR REQUIREMENTS:
OCCUPANCY CLASSIFICATION - MERCANTILE
BUILDING AREA FOR OCCUPANCY - 35218 SQFT
OCCUPANT LOAD -
OUTSIDE AIR PER PERSON -
TOTAL OUTSIDE AIR REQUIRED - 3090 CFM
3. BUILDING ENVELOPE COMPLIES WITH ASHRAE 90.1 2010
GENERAL MECHANICAL NOTES
A. ALL DUCTWORK IS EXPOSED IN THE CONDITIONED SPACE AND DOES NOT REQUIRE ANY INSULATION. THE DUCTWORK PACKAGE AND AIR DEVICES WILL BE FURNISHED BY AUTOZONE FOR INSTALLATION BY THE CONTRACTOR.
B. THE FIRESTATS, SMOKE DETECTORS, FRESH AIR INTAKES AND/OR ECONOMIZERS WILL BE PROVIDED, AS REQUIRED BY LOCAL CODE, BY AUTOZONE FOR INSTALLATION BY THE CONTRACTOR.
C. THE PACKAGE ROOF MOUNTED HEATING / COOLING UNITS, ROOF CURBS, AND VENSTAR THERMOSTATS WILL BE FURNISHED BY AUTOZONE FOR INSTALLATION BY THE CONTRACTOR. SEE SCHEDULE ON SHEET M-1 FOR THE AIR FLOW FOR EACH UNIT SCHEDULED. PRIOR TO ACTIVATING ANY RTU PLACE ALL OPERATING MANUALS AND LITERATURE IN THE PHONE/ALARM CLOSET FOR USE BY THE OWNER.
D. THE THERMOSTATS SHALL BE SET FOR 78° F IN THE COOLING MODE AND 68° F IN THE HEATING MODE.
E. THE FLEXIBLE GAS CONNECTION TO EACH UNIT TO BE NO MORE THAN 2'-0" LONG.
F. CONTRACTOR SHALL STENCIL RTU NUMBER ON ALL ROOFTOP UNITS. STENCILING SHALL BE ON ROOF HATCH SIDE ONLY.
G. REFER TO SHEET A1 FOR BUILDING DIMENSIONS AND S2 FOR HVAC LOCATIONS.
H. ALL ABOVE GROUND WATER SUPPLY PIPING SHALL BE INSULATED.
I. ATTACH LIGHTING CONTROL PANEL PHOTOCELL TO THE NORTH FACING SIDE OF ONE OF THE ROOF TOP HVAC UNITS. DO NOT ATTACH PHOTOCELL TO A REMOVABLE PANEL. CONNECT PHOTOCELL THROUGH ONE OF THE HVAC UNIT HUBS - DO NOT DRILL A HOLE IN THE BOTTOM OF THE UNIT - TO A JUNCTION BOX MOUNTED ON THE UNDERSIDE OF THE ROOF DECK AND THEN ON TO THE LIGHTING CONTROL PANEL. SEE SHEETS M-1.1 AND E-6 FOR ADDITIONAL INFORMATION.

3/32" = 1'-0" MGN01

3 MECHANICAL NOTES

A. THE EQUIPMENT AND MATERIALS FOR THIS PROJECT HAVE BEEN SPECIFICALLY SELECTED FOR THIS APPLICATION. MANY ITEMS FOUND IN THE HVAC PACKAGE ARE UNIQUE TO AUTOZONE. THE HVAC PACKAGE WILL BE FURNISHED TO THE CONTRACTOR FOR INSTALLATION, START-UP, AND SYSTEM VERIFICATION.

B. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE SYSTEM THAT CONFORMS TO THE PLANS AND SPECIFICATIONS.

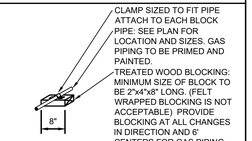
C. ALL DAMAGE AND / OR WARRANTY CLAIMS ARE SUBJECT TO INSPECTION AND REVIEW BY BOTH AUTOZONE AND THE EQUIPMENT MANUFACTURER. SEE NOTES ON SHEET M-1 FOR FURTHER INFORMATION REGARDING DAMAGE AND WARRANTY CLAIMS. FILING OF A CLAIM DOES NOT RELIEVE THE HVAC CONTRACTOR OF HIS RESPONSIBILITIES DESCRIBED ABOVE AND IN THE SPECIFICATIONS TO PROVIDE A COMPLETE AND FINISHED SYSTEM.

D. FIRESTATS, SMOKE DETECTORS, DUCT SENSORS AND REMOTE THERMOSTATS TO BE INSTALLED ACCORDING TO THE MANUFACTURERS' SPECIFICATIONS AND INSTRUCTIONS.

E. ROOFTOP UNITS MAY CONTAIN ONE OR MORE OF THE FOLLOWING ITEMS DEPENDENT ON PROJECT GEOGRAPHIC LOCATION AND CODE REQUIREMENTS: ECONOMIZER, HAIL GUARDS, CORROSION PROTECTION, HORN AND STROBE UNITS, ETC.
F. CUT NO HOLES IN BOTTOM PAN OF ROOFTOP UNIT. CONTRACTOR TO USE FACTORY INSTALLED HUB LOCATIONS TO RUN POWER AND/OR CONTROL WIRING.

1/8" = 1'-0" MHN02

4 PIPE SUPPORT



CLAMP SIZED TO FIT PIPE ATTACH TO EACH BLOCK
PIPE: SEE PLAN FOR LOCATION AND SIZES. GAS PIPING TO BE PRIMED AND PAINTED.
TREATED WOOD BLOCKING: MINIMUM SIZE OF BLOCK TO BE 2"x4"x8" LONG. (FELT WRAPPED BLOCKING IS NOT ACCEPTABLE) PROVIDE BLOCKING AT ALL CHANGES IN DIRECTION AND 6' CENTERS FOR GAS PIPING AND 3' CENTERS FOR PVC CONDENSATE PIPING.

3/4" = 1'-0" MHI01

1. SUPPORT ALL PIPING ON TREATED 2"X4" WOOD BLOCKING SET DIRECTLY ON ROOFING, AND CLAMP PIPE TO EACH SUPPORT. BLOCKING SHALL BE SPACED A MAXIMUM OF 6'-0" ON CENTER FOR GAS PIPE AND 3'-0" FOR PVC PIPE. PROVIDE ADDITIONAL SUPPORTS AT EACH BEND AND "T" CONNECTION.
2. MOUNT TWO (2) THERMOSTATS ON THE WALL - SEE SHEET E5.
3. CONTRACTOR TO FURNISH & INSTALL METAL EXHAUST DUCT AND METAL WALL CAP FOR EACH BATHROOM EXHAUST FAN, RUN DUCT WORK IN CEILING JOIST SPACE. SEE ELECTRICAL SHEETS FOR FAN LOCATION AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. COORDINATE WITH THE LOCAL UTILITY COMPANY FOR GAS METER LOCATION AND GAS PIPE SIZES. REFER TO THE SCHEDULE ON SHEET M-1 FOR MAXIMUM ESTIMATED LOAD.

1/8" = 1'-0" MHN01

5 HVAC PACKAGE NOTES

6 HEATING & COOLING PLAN NOTES

REMODEL SCOPE OF WORK

1. INSTALL DUCTS PER REMODEL PLAN. ALL DUCTS, ELBOWS AND RELATED ACCESSORIES SHALL BE FURNISHED BY CONTRACTOR.
2. PROVIDE AND INSTALL DUCT TYPE SMOKE DETECTORS ON THE RETURN AIR DUCT PLENUM FOR ALL NEW HVAC UNITS. THEY SHALL BE INTERLOCKED WITH THE UNIT FOR SHUTDOWN AND TIED INTO THE BUILDING DIRE LIFE SAFETY CONTROL PANEL. PROVIDE WITH REMOTE STATUS PANEL WITH RESET LED PUSH BUTTON.
3. INSTALL ENERGY MANAGEMENT SYSTEM AND EQUIPMENT PER ELECTRICAL DRAWINGS. FIELD INSTALL SENSORS IN RTUS.
4. HVAC UNIT CONDENSATE DRAINS SHALL BE PROPERLYTRAPPED, SUPPORTED AND SLOPED TO THE NEAREST CODE APPROVED PLUMBING RECEPTORS.
5. MECHANICAL CONTRACTOR TO COORDINATE AND OBTAIN APPROVAL FROM STRUCTURAL ENGINEER FOR PIPE AND EQUIPMENT SUPPORTS, SEISMIC RESTRAINTS, CONNECTION AND ANCHORAGE/MOUNTING TO THE STRUCTURE.
6. AFTER COMPLETION OF WORK, TESTS ON THE HVAC SYSTEMS, INCLUDING AN AIR BALANCE PERFORMANCE TEST SHALL BE PERFORMED IN ACCORDANCE WITH AN APPROVED METHOD PER WASHINGTON STATE MECHANICAL CODE.

- INDICATES ROOF OPENING
- CONDENSATE DRAIN
- (T) THERMOSTAT
- WP GFI WEATHERPROOF GFI OUTLET
- M ELECTRICAL DISCONNECT
- DW DOMESTIC WATER
- GAS INLET

1/8"=1'-0" MHL01

2 HVAC LEGEND

(#) KEY NOTES

1. PROVIDE ROOFTOP EQUIPMENT ON NEW ROOF CURB ON EXISTING ROOF. COORDINATE CURB INSTALLATION WITH STRUCTURAL ENGINEER AND EXISTING CONDITIONS. NOTIFY ARCHITECT AND ENGINEER OF ANY ISSUES WITH INSTALLATION OF EQUIPMENT IN PROPOSED LOCATION PRIOR TO INSTALLATION.
2. PROVIDE NEW ROOFTOP UNIT ON EXISTING ROOF CURB UTILIZING CURB ADAPTER.

1. GENERAL CONTRACTOR WILL BE REQUIRED TO FILL-OUT AND COMPLETE HVAC START-UP FORMS FOR EACH UNIT ON THE PROJECT, ALONG WITH COMPLETING THE VENSTAR COMMISSIONING PROCESS.
2. BLANK FORMS FOR BOTH DAIKIN AND YORK AS WELL AS THE COMISSIONING PROCESS REQUIREMENTS WILL BE ATTACHED AND A PART OF THE NTP PACKAGE AND IT WILL BE THE CONTRACTORS RESPONSIBILITY TO MAKE ENOUGH COPIES TO GIVE TO THE INSTALLING CONTRACTOR TO COMPLETE.
3. COMPLETED FORMS MUST BE SUBMITTED TO AUTOZONE PROJECT COORDINATOR VIA THE CONSTRUCTION PROJECT MANAGER. FAILURE TO DO SO WILL RESULT IN CONSTRUCTION PROGRESS PAYMENTS BEING SUSPENDED UNTIL COMPLETED FORMS HAVE BEEN RECIEVED.

1/8" = 1'-0" MHN09

8 HVAC START-UP REQUIREMENTS

REVISIONS

1	2	3
CITY COMMENTS		
4	5	6

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PUYALLUP WA 98373

MECHANICAL ROOF PLAN

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WA. CORPORATE NUMBER: 1754
06/30/26

ROBERT W. HARRIS STATE OF WASHINGTON 22017869 REGISTERED PROFESSIONAL ENGINEER

02/04/2026

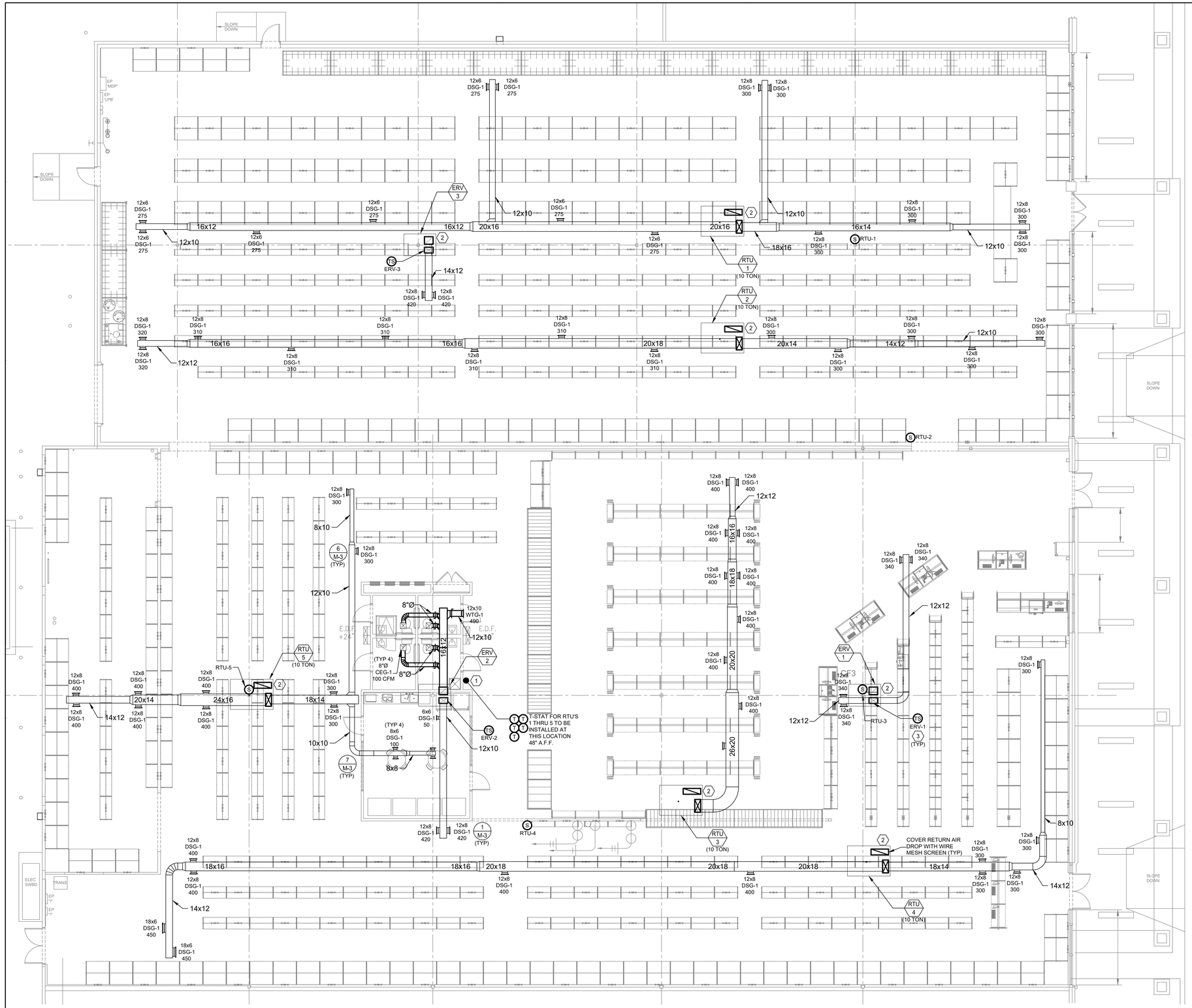
PRCTI20251723

11/21/2025

65W2-REMODEL

M-1

ROBERT W. HARRIS



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

KEY NOTES

1. NEW T-STAT FOR RTU'S 1 THRU 5 INSTALLED AT INDICATED LOCATION MOUNTED AT 48" AFF.
2. COVER OPEN RETURN AIR DUCT WITH WIRE MESH SCREEN.
3. PROVIDE FACTORY-SUPPLIED DISCHARGE AIR TEMPERATURE SENSOR FOR ERV CONTROL.

REMODEL SCOPE OF WORK

1. INSTALL DUCTS PER REMODEL PLAN. ALL DUCTS, ELBOWS AND RELATED ACCESSORIES SHALL BE FURNISHED BY CONTRACTOR.
2. PROVIDE AND INSTALL DUCT TYPE SMOKE DETECTORS ON THE RETURN AIR DUCT PLENUM FOR ALL NEW HVAC UNITS. THEY SHALL BE INTERLOCKED WITH THE UNIT FOR SHUTDOWN AND TIED INTO THE BUILDING DIRE LIFE SAFETY CONTROL PANEL. PROVIDE WITH REMOTE STATUS PANEL WITH RESET LED PUSH BUTTON.
3. INSTALL ENERGY MANAGEMENT SYSTEM AND EQUIPMENT PER ELECTRICAL DRAWINGS. FIELD INSTALL SENSORS IN RTUS.
4. HVAC UNIT CONDENSATE DRAINS SHALL BE PROPERLYTRAPPED, SUPPORTED AND SLOPED TO THE NEAREST CODE APPROVED PLUMBING RECEPTORS.
5. MECHANICAL CONTRACTOR TO COORDINATE AND OBTAIN APPROVAL FROM STRUCTURAL ENGINEER FOR PIPE AND EQUIPMENT SUPPORTS, SEISMIC RESTRAINTS, CONNECTION AND ANCHORAGE/MOUNTING TO THE STRUCTURE.
6. AFTER COMPLETION OF WORK, TESTS ON THE HVAC SYSTEMS, INCLUDING AN AIR BALANCE PERFORMANCE TEST SHALL BE PERFORMED IN ACCORDANCE WITH AN APPROVED METHOD PER WASHINGTON STATE MECHANICAL CODE.

REVISIONS

1	2	3
CITY COMMENTS		
4	5	6

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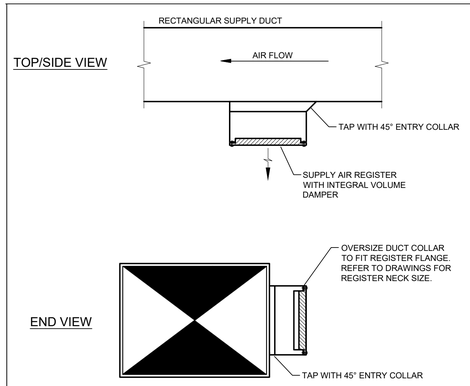
65W2-REMODEL

M-2

ROBERT W. HARRIS



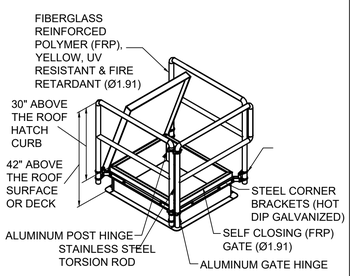
NOTES:

1. POSITION ADJUSTABLE LOUVERS DURING TESTING AND BALANCING FOR OCCUPANT COMFORT AND TO DECREASE DRAFTS IN THE SPACE.

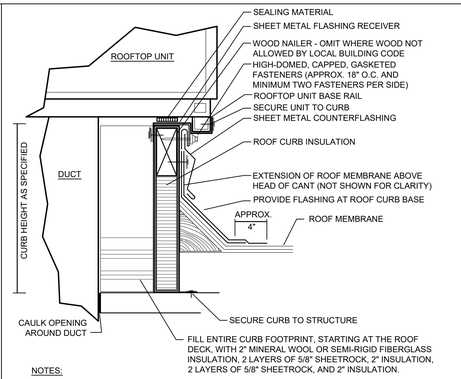
1 REGISTER MOUNTING TO RECT DUCT DETAIL
NO SCALE

BILCO
BIL-GUARD TYPE S E F
HATCH RAIL SYSTEM

SINGLE LEAF ROOF SCUTTLE
MEETS AND EXCEEDS OSHA FALL PROTECTION
REGULATIONS (29 FR 1910.23)



2 GUARD RAIL DETAIL
NO SCALE

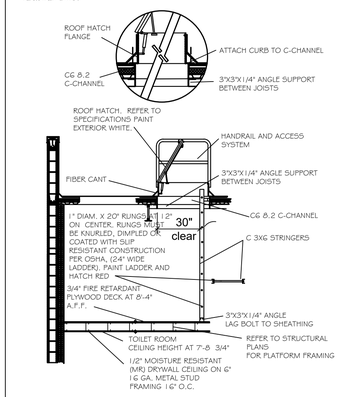


NOTES:

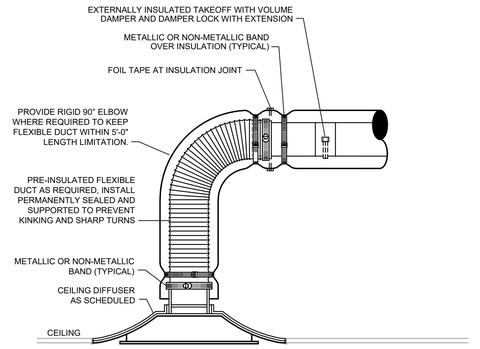
1. CUT METAL DECKING TO ALLOW CURB INSTALLATION ON STEEL FRAMING. AFTER CURB IS SET IN PLACE, TRIM REMAINING METAL DECKING AND INSTALL WITHIN CURB. TACK WELD DECKING TO SUPPORT STEEL. DO NOT WELD INTERIOR DECKING TO ROOF CURB. PROVIDE ADDITIONAL CROSS FRAMING TO SUPPORT INTERIOR DECKING AND FILL MATERIAL AS REQUIRED.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR ROOF CURBS, ANCHORING AND SEISMIC/WIND RESISTANCE.

3 ROOF CURB DETAIL
NO SCALE

NOTE: SEE STRUCTURAL PLAN FOR LOCATION OF HATCH FRAMING. SEE SHEET A1 FLOOR PLAN FOR LOCATION OF LADDER. LADDER TO COMPLY WITH OSHA 1910.23 REQUIREMENTS.



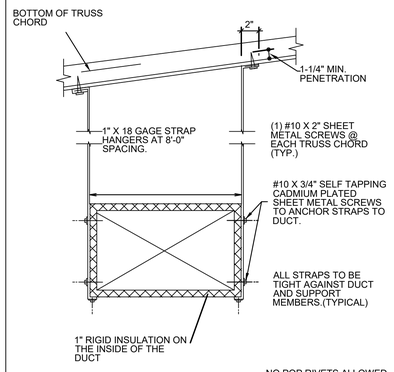
4 ROOF HATCH DETAIL
NO SCALE



NOTES:

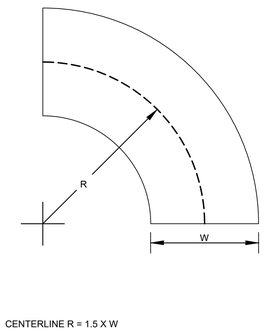
1. FLEXIBLE DUCT LENGTH MAY NOT EXCEED 5'-0". EXTEND RIGID DUCT AS REQUIRED.
2. REFER TO SPECIFICATIONS FOR FLEXIBLE DUCTWORK INSTALLATION REQUIREMENTS.

5 CEILING DIFFUSER DETAIL
NO SCALE

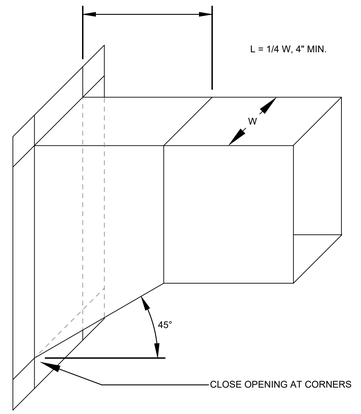


NO POP RIVETS ALLOWED

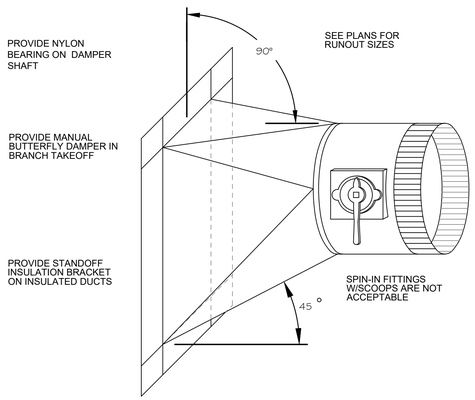
6 DUCT STRAP HANGER DETAIL
NO SCALE



7 RADIUS ELBOW
NO SCALE



8 RECTANGULAR BRANCH DUCT TAKEOFF
NO SCALE



9 ROUND BRANCH DUCT TAKE-OFF
NO SCALE

1. All air diffusers and return air grills are new, to be supplied and installed by the general contractor.

LEGEND FOR NEW GRILLES

- 24"x24" or 24"x48" RETURN AIR CLG. GRILLS TITUS MODEL # 50F. T-BAR LAY-IN. R/A= SEE PLAN
- INDICATES ROOF OPENING
- NOMINAL 24" X 24" CEILING DIFFUSER W/ 12" AND 10" COLLAR, TITUS MODEL # TMSA SQ. CLG. DIFF. FULL ADJ. PATTERN S/A = SEE PLAN
- 6" x 6" CLG. DIFF. SURFACE MOUNT, TOILET ROOMS, TITUS TMS. S/A = 75 CFM
- M — ELECTRICAL DISCONNECT PROVIDED BY G.C.

NTS hvac-legend

6 HVAC LEGEND

MARK	MANUFACTURER MODEL NO. NEW/EXISTING	SUPPLY AIR MIN. O.S.A. E.S.P.	COOLING DATA ENT. AIR D.B.	W.B.	TOTAL COOLING SENSIBLE COOLING	EER	HEAT PUMP OUTPUT ENT. AIR D.B.	INPUT OUTPUT	ELECTRICAL REQ. UNIT M.C.A.	BREAKER
RTU-1,2,3 4,5	YORK WXE12 NEW	4,000 CFM 0 CFM 0.6 IN.	76	63	128,000 BTUH 108,600 BTUH	–	60	112,000 BTUH –	460/3Ø/60Hz 25	30A

NTS rtu-sched

· ROOF TOP UNIT SCHEDULE

ROBERT W. HARRIS

REVISIONS					
1	CITY COMMENTS	4			
2		5			
3		6			

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02/04/2026

PRCTI20251723

11/21/2025

65W2-REMODEL

M-3

ROOFTOP UNIT CONTROL MATRIX

CONTROL FEATURE	UNITS	RTU-1 THRU RTU-5 SETPOINT OR Y/N	NOTES
SETPOINTS			
COOLING - OCCUPIED SETPOINT	°F	78	
COOLING - UNOCCUPIED SETPOINT	°F	83	
DEAD BAND - MINIMUM HEATING AND COOLING TEMPERATURE SETPOINT DIFFERENCE	°F	5	
HEATING - OCCUPIED SETPOINT	°F	68	
HEATING - UNOCCUPIED SETPOINT	°F	60	
PROGRAMMED CONTROL FEATURES			
HVAC SYSTEM OCCUPIED/UNOCCUPIED MODE - PROGRAMMABLE THERMOSTAT		Y	B
MORNING WARM-UP SEQUENCE		Y	
MORNING COOL-DOWN SEQUENCE		Y	
EQUIPMENT ACCESSORIES AND CONTROL MODULES			
INTEGRATED ECONOMIZER - DRY BULB TEMPERATURE ENABLE	°F	75	E
ECONOMIZER FAULT DETECTION AND DIAGNOSTICS (FDD) SYSTEM		Y	F, G
RELIEF - BAROMETRIC DAMPER		Y	
COOLING COIL (DX - STAGED)		Y	M
HEAT PUMP AUXILIARY HEATING COIL		Y	M, N
SUPPLY FAN CONTROL METHODS			
ON CONTINUOUSLY		Y	
CYCLE WITH LOADS DURING UNOCCUPIED HOURS		Y	
OPTIMUM START SEQUENCE		Y	T
VARIABLE VOLUME - MODULATE FAN SPEED IN RESPONSE TO ZONE TEMPERATURE		Y	M, R
SAFETIES, INTERLOCKS, AND ALARMS			
RETURN AIR SMOKE DETECTOR - SAFETY SHUTDOWN		Y	F

DIV. 23 CONTRACTOR SHALL PROVIDE CONTROL PANEL(S), WIRING, THERMOSTAT(S), TEMPERATURE SENSOR(S), HUMIDISTAT(S), AND/OR CO2 SENSOR(S) WHERE SHOWN ON THE DRAWINGS AND AS REQUIRED TO FACILITATE THE SCHEDULED CONTROL MODULES AND SEQUENCES OF OPERATION. EACH UNIT SHALL CONTROL BASED ON ITS OWN INTERNAL SAFETIES, TIME DELAYS, AND SEQUENCES UNLESS NOTED OTHERWISE. COORDINATE WITH OWNER FINAL BUILDING AND EQUIPMENT SCHEDULES DURING STARTUP. REFERENCE DIVISION SPECIFICATIONS FOR INDIVIDUAL DEVICE REQUIREMENTS.

NOTES:

B. DIVISION 23 CONTRACTOR SHALL PROVIDE DEVICE.
E. IF SETPOINT VALUE IS LISTED, IT INDICATES ECONOMIZER HIGH-LIMIT SHUTOFF. UNIT SHALL BE IN ECONOMIZER IF CONDITIONS ARE LESS THAN SETPOINT. THE FOLLOWING SENSORS SHALL DETERMINE ECONOMIZER ON POINT.
   OUTSIDE AIR TEMPERATURE; DIVISION 23 PROVIDED AS PART OF ECONOMIZER CONTROL MODULE.
   RETURN AIR TEMPERATURE; DIVISION 23 PROVIDED AS PART OF ECONOMIZER CONTROL MODULE.
   OUTSIDE AIR HUMIDITY; DIVISION 23 PROVIDED AS PART OF ECONOMIZER CONTROL MODULE.
   RETURN AIR HUMIDITY; DIVISION 23 PROVIDED AS PART OF ECONOMIZER CONTROL MODULE.
F. DEVICE SHALL BE FACTORY MOUNTED AND PRE-WIRED FOR OPERATION SUBJECT TO THE ONBOARD CONTROLLER.
G. PROVIDE UNIT WITH AN FDD SYSTEM CONSISTING OF PERMANENTLY INSTALLED OUTSIDE AIR, SUPPLY AIR, AND RETURN AIR TEMPERATURE SENSORS. THE UNIT CONTROLLER SHALL AT A MINIMUM BE CAPABLE OF PROVIDING SYSTEM STATUS OF ECONOMIZER, COMPRESSOR, HEATING, MIXED AIR LOW LIMIT ALARM, AND SENSOR VALUES. EACH OPERATING MODE SHALL BE CAPABLE OF INDEPENDENTLY OPERATING FOR TESTING. THE SYSTEM SHALL REPORT FAULTS TO AN APPLICATION ACCESSIBLE BY SERVICE PERSONNEL. THE FOLLOWING FAULTS SHALL BE DETECTED: AIR TEMPERATURE SENSOR FAILURE, ECONOMIZER ENABLED/DISABLED WHEN ECONOMIZER SHOULD BE OFF/ON, RESPECTIVELY, DAMPER NOT MODULATING, AND EXCESS OUTSIDE AIR.
M. UNITARY CONTROLLER SHALL MODULATE AND/OR CYCLE SUPPLY FAN SPEED SETTING AND COIL CAPACITY STAGES SUBJECT TO THE INTERNAL SAFETIES AND SEQUENCES TO MAINTAIN SCHEDULED SETPOINTS.
N. CONTROLS FOR AUXILIARY HEATING COIL SHALL PREVENT HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE. AUXILIARY HEATER OPERATION SHALL BE ALLOWED DURING DEFROST CYCLES.
R. PROVIDE MODULATING FAN CONTROL WITH MINIMUM SPEED LESS THAN 50% OF FULL SPEED. AT MINIMUM SPEED THE FAN SHALL DRAW NO MORE THAN 30% OF FULL SPEED POWER.
T. DURING OPTIMUM START SEQUENCE, THE UNIT SHALL SUPPLY THE LESSER OF THE MINIMUM RATE OF OUTDOOR AIR OR SUPPLY 3 COMPLETE AIR CHANGES DURING THE 1-HOUR PERIOD BEFORE NORMAL OCCUPIED MODE.

OUTSIDE AIR REQUIREMENTS, IMC-2021 (IP)

SYSTEM DESIGNATION	SYSTEM TAB NAME OR LIST 'SINGLE'	SINGLE-ZONE SYSTEMS ONLY: SINGLE-ZONE SYSTEM ASSOCIATED VENTILATION ZONE	SINGLE-ZONE SYSTEMS ONLY: SINGLE ZONE WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS [Ez]	MULTI-ZONE SYSTEMS ONLY: SYSTEM VENTILATION EFFICIENCY [Ev]	FLOOR AREA SERVED BY SYSTEM [As] (SF)	SYSTEM AVERAGED AREA-BASED OUTDOOR AIR RATE (CFM/SF)	SYSTEM POPULATION [Ps] (PEOPLE)	SYSTEM AVERAGED PEOPLE-BASED OUTDOOR AIR RATE (CFM/P)	REQUIRED OA INTAKE FLOW [Vot] (CFM)	REQUIRED DCV OA INTAKE FLOW [Vot] (CFM)	DESIGN OA INTAKE FLOW [Vot] (CFM)	NOTES
ERV-1	100% OA (ERV-1)	-	-		4,658	0.150	69.87	9.38	1,354	N/A	1,360	
ERV-2	100% OA (ERV-2)	-	-		11,894	0.073	1.97	6.25	886	N/A	890	
ERV-3	100% OA (ERV-3)	-	-		11,185	0.075	0.001	0.00	839	N/A	840	
								TOTALS	3,079	0	3,090	

GENERAL NOTES:
1. VENTILATION CALCULATIONS BASED ON IMC-2021.
2. SYSTEM POPULATIONS BASED ON MAX SEATING AND/OR CODE MAXIMUM VALUES.
3. 100% OA SYSTEMS (Vot = $\sum_{all\ zones}$ Voz): WHEN ONE AIR HANDLER SUPPLIES ONLY OUTDOOR AIR TO ONE OR MORE ZONES. EACH ZONE IS INDIVIDUALLY CALCULATED WITH ITS WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS (HEATING/COOLING).

GRILLE, REGISTER AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	SERVICE	MODEL	CONSTRUCTION TYPE	FACE TYPE	MOUNTING LOCATION	BORDER TYPE	FACE SIZE (IN)	MAX NC	NOTES
DSG-1	TITUS	SUPPLY	300RL	STEEL	LOUVERED	RECTANGULAR DUCT	SURFACE MOUNT	RE:FLOOR PLAN	30	A-E & G-K
CRG-1	TITUS	RETURN	PAR	STEEL	PERFORATED	CEILING	LAY-IN	24"X24"	30	A,B,F,J,K
WTG-1	TITUS	RETURN	350RL	STEEL	LOUVERED	WALL	SURFACE MOUNT	RE:FLOOR PLAN	30	A-E & G-K
CEG-1	TITUS	EXHAUST	350RL	STEEL	LOUVERED	CEILING	LAY-IN	RE:FLOOR PLAN	30	A-E & G-K

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTU

NOTES:

A. NECK SIZE SHOWN ON DRAWINGS. PROVIDE BRANCH DUCT TO MATCH NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS.
B. BAKED ENAMEL FINISH, WHITE TO MATCH CEILING COLOR. CONFIRM FINISH WITH ARCH./CLIENT PRIOR TO PROCUREMENT.
C. FRONT BLADES PARALLEL TO LONG DIMENSION.
E. DOUBLE DEFLECTION BARS SHALL BE ADJUSTABLE.
F. FRAME TYPE TO MATCH CEILING/WALL CONSTRUCTION, COORDINATE WITH ARCHITECTURAL REFLECTED CEILING/WALL PLAN.
G. PROVIDE OPPOSED BLADE DAMPER ADJUSTABLE FROM FACE OF DEVICE.
J. PROVIDE BORDER TYPE TO MATCH CEILING CONSTRUCTION.
K. PROVIDE DIFFUSERS, AND GRILLES WITH NO EXPOSED MOUNTING SCREWS.

ENERGY RECOVERY VENTILATOR CONTROL MATRIX

CONTROL FEATURE	UNITS	ERV-1 THRU ERV-3 SETPOINT OR Y/N	NOTES
ENERGY RECOVERY			
ENERGY RECOVERY WHEEL (TOTAL ENTHALPY) - CONSTANT SPEED		Y/N	
ENERGY RECOVERY TIMED DEFROST SEQUENCE		Y/N	
ENERGY RECOVERY ECONOMIZER MODE		Y/N	L
PROGRAMMED CONTROL FEATURES			
HVAC SYSTEM OCCUPIED/UNOCCUPIED MODE - SCHEDULED AT DOAS INTERNAL UNIT CONTROLLER		Y/N	B
EQUIPMENT COMPONENTS, ACCESSORIES AND CONTROL FEATURES			
OUTSIDE AIR DAMPER - MOTOR OPERATED		Y/N	H
RELIEF/EXHAUST AIR DAMPER - BAROMETRIC		Y/N	
SUPPLY FAN CONTROL METHODS			
ON DURING OCCUPIED MODE		Y	
CONSTANT SPEED SUPPLY FAN OPERATION		Y/N	
EXHAUST FAN CONTROL METHODS			
CONSTANT SPEED EXHAUST FAN OPERATION		Y/N	
SAFETIES, INTERLOCKS, AND ALARMS			
LOW LIMIT FREEZESTAT - FREEZE PROTECTION SAFETY SHUTDOWN		Y	E
DIFFERENTIAL PRESSURE SWITCH - FILTER CHANGE ALARM		Y	E
OUTSIDE AIR DAMPER END SWITCH - SAFETY SHUTDOWN		Y	J
EXHAUST AIR DAMPER END SWITCH - SAFETY SHUTDOWN		Y	K

DIV. 23 CONTRACTOR SHALL PROVIDE CONTROL PANEL(S), WIRING, THERMOSTAT(S), TEMPERATURE SENSOR(S), HUMIDISTAT(S), AND/OR CO2 SENSOR(S) WHERE SHOWN ON THE DRAWINGS AND AS REQUIRED TO FACILITATE THE SCHEDULED CONTROL MODULES AND SEQUENCES OF OPERATION. EACH UNIT SHALL CONTROL BASED ON ITS OWN INTERNAL SAFETIES, TIME DELAYS, AND SEQUENCES UNLESS NOTED OTHERWISE. COORDINATE WITH OWNER FINAL BUILDING AND EQUIPMENT SCHEDULES DURING STARTUP. REFERENCE DIVISION SPECIFICATIONS FOR INDIVIDUAL DEVICE REQUIREMENTS.

NOTES:

B. DIVISION 23 CONTRACTOR SHALL PROVIDE DEVICE.
E. DEVICE SHALL BE FACTORY MOUNTED AND PRE-WIRED FOR OPERATION SUBJECT TO THE ONBOARD CONTROLLER.
H. DAMPER SHALL BE CLOSED DURING UNOCCUPIED MODE.
J. PROVIDE END SWITCH ON THE OUTSIDE AIR DAMPER AND INTERLOCK THE SWITCH WITH THE SUPPLY FAN TO KEEP IT FROM STARTING IF END SWITCH DOES NOT PROVE DAMPER OPEN.
K. PROVIDE END SWITCH ON THE EXHAUST AIR DAMPER AND INTERLOCK THE SWITCH WITH THE EXHAUST FAN TO KEEP IT FROM STARTING IF END SWITCH DOES NOT PROVE DAMPER OPEN.
L. WHEN SPACE IS IN COOLING MODE AND OUTSIDE AIR CONDITIONS ARE SUCH THAT FREE COOLING IS AVAILABLE, UNIT CONTROLS SHALL MODULATE ERV WHEEL MOTOR SPEED OR MODULATE ENERGY RECOVERY BYPASS DAMPERS TO MAINTAIN SCHEDULED COOLING SUPPLY AIR TEMPERATURE SETPOINT.

PROJECT DESIGN CONDITIONS

CLIMATE CONDITONS		WEATHER STATION	REFERENCE
WEATHER STATION:		MCCHORD AFB, WA USA	2025 ASHRAE / 2021 WMC
CLIMATE ZONE:		4C	
ASHRAE HEATING:	99.6%	21.3 °F DB	
DESIGN HEATING CONDITIONS:		21.3 °F DB	
HUMIDIFICATION:	99.6%	13.9 °F DP	11.3 gr/lb 27.2 °F DB
ASHRAE COOLING:	0.4%	87.4 °F DB	65.9 °F WB
DESIGN COOLING CONDITIONS:		87.4 °F DB	65.9 °F WB
DEHUMIDIFICATION:	0.4%	63.3 °F DP	88.1 gr/lb 70.8 °F DB

BUILDING OPERATING HOURS:	
MONDAY - FRIDAY	TBD BY OWNER
SATURDAY	TBD BY OWNER
SUNDAY	TBD BY OWNER
HOLIDAY	TBD BY OWNER

SPACE / UNIT DESCRIPTION	SET POINTS: COOLING / DE-HUMIDIFICATION: OCC °F	UNOCC °F	MAX RH %	MIN RH %	HEATING: OCC °F	UNOCC °F	HUMIDIFICATION: MIN RH %	MAX RH %	ZONE VENTILATION RESET: CONTROL METHOD	BASE PPM	MAXIMUM PPM	SPACE OPERATING HOURS OCCUPIED / UNOCCUPIED: DAYS OF THE WEEK M-F	SAT	SUN	NOTES
SALES	78	83	50%	NA	68	60	NA	NA	NA	NA	NA	TBD	TBD	TBD	A-D
BACK OF HOUSE	78	83	50%	NA	68	60	NA	NA	NA	NA	NA	TBD	TBD	TBD	A-D

NOTES:
A. ZONE LEVEL VENTILATION RESET / DEMAND CONTROL VENTILATION (DCV) CONTROL METHOD: CARBON DIOXIDE SENSOR (CO2).
B. ZONE LEVEL SET POINT CONDITIONS SHALL BE AS SCHEDULED UNLESS OTHERWISE SCHEDULED OR NOTED ON THE DRAWINGS FOR ROOM SPECIFIC SPACE CONDITIONS.
C. ZONE LEVEL OCCUPANCY HOUR SCHEDULE SHALL BE PER BUILDING OPERATING HOURS UNLESS OTHERWISE SCHEDULED.
D. ZONE LEVEL CONTROLS SHALL BE CAPABLE OF OPERATING WITH INDEPENDENT OCCUPANCY SCHEDULES.

ENERGY RECOVERY VENTILATION UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	SUPPLY FAN: FAN TYPE	OA (CFM)	ESP (IN)	BHP	NOM HP	VFD (Y/N)	EXHAUST FAN: FAN TYPE	EXH (CFM)	ESP (IN)	BHP	NOM HP	VFD (Y/N)	SUMMER EXHAUST: EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	LAT (°F WB)	SUMMER SUPPLY: OAT (°F DB)	OAT (°F WB)	LAT (°F DB)	LAT (°F WB)	WINTER EXHAUST: EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	LAT (°F WB)	WINTER SUPPLY: OAT (°F DB)	OAT (°F WB)	LAT (°F DB)	LAT (°F WB)	ELECTRICAL: V/PH	MCA	MOCP	DISC TYPE	STARTER TYPE	WEIGHT (LBS)	NOTES
ERV-1	GREENHECK	ERV-20-15L	FC	1,360	0.5	0.76	1/2	N	FC	1,260	0.5	0.57	0.5	N	75	61.6	85.2	65.3	87.4	65.9	77.7	62.5	72	55.8	30	26.6	21.3	17.4	60.3	48.2	208/1	16.5	20	NF	COMBINATION	722	ALL
ERV-2	GREENHECK	ERV-20-15L	FC	890	0.5	0.30	1/3	N	FC	880	0.5	0.26	1/3	N	75	61.6	85.4	65.4	87.4	65.9	76.9	62.3	72	55.8	29.4	25.6	21.3	17.4	63.5	50.4	208/1	7.5	15	NF	COMBINATION	661	ALL
ERV-3	GREENHECK	ERV-10-20H-VG	FC	840	0.5	0.43	3/4	N	FC	830	0.5	0.61	3/4	N	75	61.8	84.4	65	87.4	65.9	77.8	62.6	72	55.8	33.3	29.2	21.3	17.4	59.8	47.9	208/1	29.9	40	NF	COMBINATION	270	ALL

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NOTES:

A. PROVIDE 2" MERV 13, PLEATED THROWAWAY AIR FILTERS IN EACH AIRSTREAM.
B. PROVIDE FACTORY MOUNTED DISCONNECT INSTALLED ON SERVICE SIDE OF UNIT.
C. PROVIDE INSULATED ROOF CURB WITH MINIMUM HEIGHT REQUIRED TO MAINTAIN BOTTOM OF EQUIPMENT A MINIMUM OF 8 INCHES ABOVE FINISHED ROOF SURFACE. PROVIDE SLOPED CURB IF NEEDED TO MATCH ROOF SLOPE. COORDINATE WITH ROOF INSULATION THICKNESS AND ROOF TAPER AT INSTALLED LOCATION. COORDINATE CURB TYPE WITH DRAWINGS.
D. SCHEDULED WEIGHT IS THE MAXIMUM ALLOWABLE OPERATING WEIGHT OF THE EQUIPMENT.

REVISIONS

1	CITY COMMENTS	4
2		5
3		6

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

AutoZone Store No. 10668
4423 SOUTH MERIDIAN
PUYALLUP WA 98373

MECHANICAL SCHEDULES AND NOTES

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
2550003925
WA. CORPORATE NUMBER: 1754
06/30/26
ROBERT W. HARRIS — STATE OF WASHINGTON — 22017869 — REGISTERED PROFESSIONAL ENGINEER
02/04/2026

PRCTI20251723

11/21/2025

65W2-REMODEL

M-5

ROBERT W. HARRIS

MECHANICAL COMPLIANCE SUMMARY

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

Project & Applicant Information	Project Title	Autozone Mega-Hub New Store 10668 - 2021 WSEC	For Building Department Use: Date: Feb 3, 2026
	Project Address	4433 South Meridian Puyallup, WA 98373	
	Applicant Name	Sydney White	
	Applicant Phone	402-336-5316	
	Applicant Email	Sydney.White@hendersonengineers.com	

Mechanical Compliance Summary Scope - Compliance verification provided in this report is limited to code minimum efficiency requirements for mechanical equipment types defined in Tables C403.3.2(1) through C403.3.2(4) of the 2021 WSEC-C, Prescriptive Building Packages for economizer exceptions. Performance criteria for additional energy efficiency and load management measures ARE NOT included in this report. Additional documentation is required to demonstrate compliance with all other provisions of the energy code, including better than code efficiency criteria for Section C406. 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(s)	Retail, General Sales	Building Cond. Floor Area: 27,764
General Project Types	Alteration	New Building or Addition Mechanical Scope		Alteration Mechanical Scope	Single Zone Systems & Equipment	Project Cond. Floor Area: 27,764 Floors Above Grade: 1 Overall Compliance Path: General Prescriptive
Mechanical Project Description	This project includes the installation of new HVAC systems and air distribution within an existing building, including packaged heat pumps, energy recovery ventilators (ERVs), ductwork, controls, and air distribution devices.				

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

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

Single Zone Air Systems Category - Heat pump, packaged (PTHP, SPHW, Room)

Air Systems Summary Information

System/Equip ID	Quantity of Units	Supply Air/Flow Control	Ventilation Standard	Ventilation CFM (Sum for Multiple Items)	Ventilation Air Source	Paired with DOAS	Ventilation energy recovery	Energy Recovery Efficiency (%)
RTU-1,2	2	Staged volume	IMC Ventilation	840	Separate DOAS	ERV-3		
RTU-3,4	2	Staged volume	IMC Ventilation	1260	Separate DOAS	ERV-1		
RTU-5	1	Staged volume	IMC Ventilation	890	Separate DOAS	ERV-2		

Air Systems & Equipment - Cooling

System/ Equip ID	Cooling System/Equip Type	Specific Type	Cooling Capacity per Item (Btu/h)	Econo Exception Multiplier (Full)	Required Cooling Efficiency (Code Min + Econo)	Proposed Cooling Efficiency	CE Units	Efficiency Compliance Verification
RTU-1,2	Heat pump, vertical (SPHP)	Single package, vertical	126,000	0	10.0	11.2	EER	COMPLIES
RTU-3,4	Heat pump, vertical (SPHP)	Single package, vertical	126,000	0	10.0	11.2	EER	COMPLIES
RTU-5	Heat pump, vertical (SPHP)	Single package, vertical	126,000	0	10.0	11.2	EER	COMPLIES

Air Systems & Equipment - Heating

System /Equip ID	Heating System/Equip Type	Specific Type	Heat Pump Heating Capacity per Item (Btu/h)	Cooling Capacity per Item (Btu/h) (Identical to Cooling Table)	Required Heat Pump Heating Efficiency	Proposed Heat Pump Heating Efficiency	HPH Units	Efficiency Compliance Verification
RTU-1,2	Heat pump, vertical (SPHP), heating	Single package, vertical heat pump	112,000	126,000	3.0	3.4	COP	COMPLIES
RTU-3,4	Heat pump, vertical (SPHP), heating	Single package, vertical heat pump	112,000	126,000	3.0	3.4	COP	COMPLIES
RTU-5	Heat pump, vertical (SPHP), heating	Single package, vertical heat pump	112,000	126,000	3.0	3.4	COP	COMPLIES

Air Systems & Equipment Details

System/Equip ID	Discrete Area(s) Served	Location in Project Documents – Plan/Detail #	System/Equip Certification
RTU-1,2	Sales	ALL	General Prescriptive
	Economizer Compliance Method: All-side economizer provided		WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(4) Packaged Terminal, Vertical AC & HP and Room AC Units
	WSEC Equip Efficiency Reference Table - Heating: Table C403.3.2(4) Packaged Terminal, Vertical AC & HP and Room AC Units		
RTU-3,4	Sales	ALL	General Prescriptive
	Economizer Compliance Method: All-side economizer provided		WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(4) Packaged Terminal, Vertical AC & HP and Room AC Units
	WSEC Equip Efficiency Reference Table - Heating: Table C403.3.2(4) Packaged Terminal, Vertical AC & HP and Room AC Units		
RTU-5	Sales	ALL	General Prescriptive
	Economizer Compliance Method: All-side economizer provided		WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(4) Packaged Terminal, Vertical AC & HP and Room AC Units
	WSEC Equip Efficiency Reference Table - Heating: Table C403.3.2(4) Packaged Terminal, Vertical AC & HP and Room AC Units		

Mechanical Requirements List, pg 1 of 32

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 — Administered by ©2026 NEEA, All rights reserved

The following information is necessary to check a mechanical permit application for compliance with the mechanical systems and equipment requirements in the Washington State Energy Code, Commercial Provisions.
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

Project:
Autozone Mega-Hub New Store 10668 - 2021 WSEC
4433 South Meridian
Puyallup, WA 98373

Date: 2026-02-03

Applies	Code Section	Code Provision	Compliance Information Required In Permit Documentation	Location in Documents	Building Department Notes
SCOPE					
	C103.3	Construction documents - General	For a shell & core or tenant space (First build-out) project, indicate if there is no mechanical scope included in the project.		
YES	C103.1	Construction documents - General	For an alteration project, indicate if there is no mechanical scope included in the project.	ALL	
PERFORMANCE CRITERIA & SYSTEM DESIGN					
NA	C403.1	Exempt process equipment	Identify equipment used by manufacturing, industrial or commercial processes that are not for space conditioning or maintaining comfort and amenities for occupants; identify provisions applicable to this equipment per C403.1 exception		
YES	C403.1.1	HVAC total system performance ratio (TSPR)	For systems serving office (including medical office), retail, library, or education occupancies, or serving R-2 dwelling units or common areas, provide a TSPR report that demonstrates the proposed design ratio is equal to or greater than the standard reference design ratio, or exception applied		
YES	C403.1.2	Calculation of heating and cooling loads	Provide load calculations in accordance with ASHRAE Std 183 or equivalent, using design parameters per C202 and Appendix C; include load adjustments to account for energy recovery		
NA	C403.1.3	Data centers	Provide documentation that demonstrates that data center systems comply with the maximum allowed Design MLC and Annualized MLC per ASHRAE 90.4-2019.		
NO	C403.2.1 C403.4.2.2	Zone isolation	If there are HVAC zones that are intended to be heated or cooled differently than adjacent zones, or zones that are intended to be operated on different schedules, or zones intended to be occupied simultaneously with the combined area greater than 25,000 sf and does not include more than one floor; or exception applied		
NO	C403.2.1 C403.4.2.2	Zone isolation	Indicate locations of associated zone isolation dampers in HVAC and DOAS distribution systems and exhaust systems		
YES	C403.2.1 C403.4.2.2	Zone isolation	Refer to HVAC Controls section in Requirements List section for automatic setback and shutdown controls requirements	M-5	
EQUIPMENT SELECTION & PERFORMANCE					

Mechanical Requirements List, pg 2 of 32

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 — Administered by ©2026 NEEA, All rights reserved

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YES	C403.3.2.6	Electric heating / cooling equipment	Verify all packaged and split electric equipment with ≤ 6,000 Btu/h cooling capacity and any amount of heating is a heat pump with reverse-cycle defrost and operates in heat pump mode when outdoor air temperature is > 25 degrees F; include in equipment schedules.		
NA	C403.3.2.6	Electric heating / cooling equipment	Identify electric heat in the main supply duct when VAV boxes served by cooling only systems > 6,000 Btu/h is a heat pump with reverse-cycle defrost and operates in heat pump mode when outdoor air temperature is > 25 degree F; include in equipment schedules.		
YES	C403.3 C403.1.4	HVAC Heating Fuel	For all heating equipment, identify whether it qualifies for the C403.1.4 general prescriptive path, a C403.1.4 exception, or for the C403.3 Fossil Fuel Heating path; for equipment qualifying for the C403.1.4 general prescriptive path by exception, document the exception and provide supporting information		
NO	C403.3 C403.1.4 C406.1	HVAC Heating Fuel	For projects with equipment utilizing the C403.3 Fossil Fuel Heating path, provide an accounting of the total heating and capacity of the C403.3 equipment heating capacity for each distinct area utilized in the C406 calculation.		
NA	C403.1.4	HVAC Heating Fuel, each separate I Dwelling and sleeping units	To qualify for exception 2, provide a list of each separate space in the dwelling or sleeping unit, indicate the number of exterior walls the space has, the presence of fenestration, and the allowed watts; document the heat provided in each space is below the allowed capacity in the space		
YES	C403.1.4	HVAC Heating Fuel, exception 5 Air-to-air heat pumps	To qualify for exception 5, provide documentation that the heat pump is sized to meet the heating load at an outdoor air temperature 4.32°F and has a ratio of heating capacity at 47°F to supplemental resistance heat capacity ≥ 2.0 in zone 4 and ≥ 1.0 in zone 5; indicate unit control by either a thermostat designed for heat pump use, a digital thermostat that prevents the use of supplemental heat except during defrost or emergency heat, or a thermostat with outdoor air temperature set to 42°F or less, or indicate exception applied and specify equipment meeting the exception requirements		

Mechanical Requirements List, pg 3 of 32

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 — Administered by ©2026 NEEA, All rights reserved

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NO	C403.1.4	HVAC Heating Fuel, exception 6 Air-to-water heat pumps	To qualify for exception 6, provide documentation that building heating is provided by air-to-water heat pumps with a heating capacity ≥75% of the design heating load at 29°F; indicate controls configured to lock out supplemental heat when the outdoor air temperature is 30°F unless the hot water supply set point has not been maintained for 20 minutes; indicate controls configured to use the compressor as the first stage of heating; indicate the compressor minimum total temperature rise setpoint is 10°F and defrost		
NO	C403.1.4	HVAC Heating Fuel, exception 7 Ground source heat pumps	To qualify for exception 7, provide documentation that building heating provided by ground source heat pumps; ; indicate controls configured to lock out supplemental resistance heat when the source-side entering water temperature is 242°F unless the hot water supply set point has not been maintained for 20 minutes; indicate controls configured to use the compressor as the first stage of heating; indicate the ground source heat exchanger shall be sized so heat pump annual output is ≥70% for the total annual heating output based upon the final year of a 30-year simulation using ICI0IPA Intial software		
NO	C403.1.4	HVAC Heating Fuel, exception 8 Small systems	To qualify for exception 8, document the capacity or area served for the electric resistance and fossil fuel systems and demonstrate that it is ≤ 5% of the building heating capacity or area		
NO	C401.3.6	Electrification readiness	For all equipment following the fossil fuel path, indicate on plans that space electrical branch circuit and service entrance conduit is installed and sized to support future conversion of fossil fuel heaters to heat pumps; indicate on plans additional room in the electric room and transformer rooms and vaults be provided and sized to accommodate future service upgrades for conversion of all fossil fuel equipment to heat pumps		
YES	C403.3.1	Equipment and system sizing	Indicate that output capacities of heating and cooling equipment and systems are no greater than the smallest available equipment size that exceeds the calculated loads; note exceptions applied		
YES	C403.3.2 C403.9.1	HVAC equipment performance requirements (efficiency)	Provide equipment schedules on plans and in WSEC-mechanical equipment compliance reports; indicate equipment type, calculated loads, capacity, rated and WSEC minimum efficiencies for all heating and cooling equipment; include supply and ventilation air equipment serving each space; for equipment identify heating and cooling equipment that does not have a corresponding WSEC minimum efficiency (manufacturer rated)		

Mechanical Requirements List, pg 4 of 32

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 — Administered by ©2026 NEEA, All rights reserved

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YES	C405.8	Electric motor efficiency	List all motors ≥ 1/12 hp (that are not integral to a rated piece of equipment) in the mechanical schedules equipment schedules on plans; Indicate motor type and applicable NEMA design A, B, or C; indicate motor size and rated efficiency; or exception applied		
NO	C403.3.2.1	Gas and oil-fired forced air furnaces	For gas and oil fired forced air furnaces with capacity ≥ 225,000 Btu/h and all unit heaters, indicate in equipment schedule Intermittent ignition or IID, flue or damb damper, and rated jacket loss		
NO	C403.3.3	Hot gas bypass limitation for DX cooling equipment	For cooling equipment with hot gas bypass, provide either multiple step unloading or continuous capacity modulation; indicate bypass capacity per Table C403.3.3		
NO	C403.3.2.7	Humidification	For cooling systems with humidification equipment that are also required to have air economizer, indicate humidifier is adiabatic (direct evaporative or fog atomization), or exception applied		
	C403.3.2	Hydronic equipment	Refer to Requirements List section Hydronic Systems - Equipment Selection & Performance for selection criteria specific to chillers and boilers		
NO	C403.9	Heat rejection equipment	Refer to Requirements List section Heat Rejection Systems Selection & Performance for selection criteria specific to cooling towers, closed-circuit condensers and enclosed and evaporative		
NO	C403.13	Dehumidification in spaces for plant growth	Indicate dehumidification equipment serving plant growth spaces and which C403.13 exception applied		
EQUIPMENT SELECTION & PERFORMANCE - DEDICATED OUTSIDE AIR SYSTEMS (DOAS)					
NO	C403.3.5.5 C403.7.3	DOAS supplemental heating and cooling	If DOAS has heating capability, indicate heating controlled to limit supply air to ≤ 55°F. If heating is used for defrost control, indicate heat is to be locked out when outdoor air temperature is ≤ 55°F; modulates to 10% of peak capacity. Provide sizing calculations that show heating capacity sized at design temperatures to prevent damage to unit and heat supply air ≤ 55°F		
NO	C403.3.5.5 C403.7.3	DOAS supplemental heating and cooling	If DOAS has cooling capability, indicate cooling coil is sized for dehumidification only, is sized to meet the peak dehumidification requirement at design conditions, and is controlled to maintain supply air ≥ zone relative humidity.		

Mechanical Requirements List, pg 5 of 32

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 — Administered by ©2026 NEEA, All rights reserved

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YES	C403.3.5 C403.3.3.4	Dedicated outdoor air systems	For buildings with occupancies required to comply with the DOAS provisions per Table C403.3.5, identify on plans all occupancies in the building and indicate which occupied spaces have their ventilation requirements delivered by a DOAS; or exception applied		
NO	C403.3.5 C403.3.3.4	Dedicated outdoor air systems	If natural ventilation exception is applied, identify these spaces on plans; indicate operable window area complies with IMC-Section 402; provide documentation describing how required ventilation will be provided during all occupied hours, including during inclement weather		
NO	C403.3.5 C403.3.3.4	Dedicated outdoor air systems	If high efficiency VAV exception is applied, identify these spaces on plans; refer to Single Zone VAV section for Groups A-1, A-2 and A-3 occupancy classifications, or Multiple Zone VAV for other than Groups A-1, A-2 and A-3 per Table C403.3.5		
NO	C403.3.5 C403.3.3.4	Dedicated outdoor air systems	If compliance with the DOAS provisions is deemed to be impractical, provide documentation that demonstrates the alternate design strategy applied that achieves a comparable level of energy efficiency, as pre-approved by the AHJ		
NO	C403.3.5	Dedicated outdoor air systems	Refer to Requirements List section after Multiple-Zone Air Systems for High Efficiency Multiple-Zone VAV Systems exception to C403.3.5 DOAS		
NO	C403.3.5	Dedicated outdoor air systems	Refer to Requirements List section after High Efficiency Multiple-Zone Air Systems for High Efficiency Single-Zone VAV Systems exception to C403.3.5 DOAS		
YES	C403.3.5.1	DOAS energy recovery ER method and heat of exchanger effectiveness	For all DOAS systems, indicate exhaust air ER method and heat exchanger effectiveness (sensible or latent); indicate ≥ 68% sensible or ≥ 60% enthalpy recovery ratio or design condition; or exception applied		
YES	C403.3.5.2	DOAS fan power	For DOAS with no fans or fan arrays with input power ≥ 1kW, indicate total system fan power does not exceed 1 watt per cfm		
YES	C403.3.5.2	DOAS fan power	For DOAS with any fans or fan arrays with input power ≥ 1kW, indicate total system fan power complies with fan power limitation per Section C403.8.1		
NO	C403.3.5.3	Heating / cooling system fan controls with DOAS	Indicate systems and equipment associated with the delivery of zone level heating and cooling (fans, hydronic pumps, primary air dampers, etc.) are configured to shut off, and central equipment is configured to turn down, when there is no call for heating or cooling in the zone they serve		

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NO	C403.3.5.3	Heating / cooling system fan controls with DOAS	If applying Exception to heating / cooling fans used for air mixing in the space during deadband periods, include fan watts per cfm in equipment schedule		
YES	C403.3.3.4	Decoupled DOAS supply air	Indicate method of delivery of DOAS supply air to the occupied space (directly into space, downstream of terminal heating / cooling coils); or exception applied	M-2	
NO	C403.6.5	Multiple zone DOAS	For DOAS serving multiple zones with DDC controls, indicate controls configured to: reduce the volume of outdoor air in each zone independently when the zone is unoccupied; or exception applied		
ADDITIONAL ENERGY EFFICIENCY MEASURE - DEDICATED OUTSIDE AIR SYSTEMS (DOAS)					
	C406.2.2.b	High-performance DOAS - Energy recovery effectiveness and fan power	For all building occupancies ≥ 10,000 sf, indicate compliance with this additional efficiency credit; demonstrate compliance with C403.3.3		
	C406.2.2.b	High-performance DOAS - Energy recovery effectiveness and fan power	Indicate energy recovery sensible effectiveness of all DOAS is ≥ 80%		
	C406.2.2.b	High-performance DOAS - Energy recovery effectiveness and fan power	For each system, indicate that total system fan power does not exceed 0.769 watts per cfm or is ≤ 80% of the fan power allowance for a comparable volume system calculated per C403.8.1		
FANS AND FAN CONTROLS					
YES	C403.8.1.2	Fan power limitation	For all HVAC fan systems associated with conditioned space and containing 1 or more fans with electrical input power ≥ 1 kW, provide the total nameplate hp and the fan system electrical input power calculated per C403.8.1.2 in equipment schedules on project plans		
YES	C403.8.1.1	Fan power limitation	For all HVAC and DOAS systems associated with conditioned spaces with 1 or more fans with electrical input power ≥ 1 kW, provide the total nameplate hp and the fan system electrical input power calculated per C403.8.1.1 in equipment schedules on project plans		
YES	C403.8.2	Motor nameplate hp	For HVAC systems with total fan motor nameplate hp > 5hp, indicate fan motors specified are the smallest available motor hp size greater than fan bhp, note exceptions applied		

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YES	C405.8	Fractional hp fan motors	For all fractional hp fan motors (1/12 < 1 hp), indicate that motors comply with applicable WSEC minimum efficiency tables; if motor type is not listed in an efficiency table, indicate motor is electronically commutated motor, has motor nameplate efficiency of at least 70%, or exception applied		
YES	C403.8.3	Fan efficiency	For individual fans or fan arrays, indicate in equipment schedule that fan efficiency at all applicable fan points of a variable flow system is ≥ 0.95 and ≥ 1.0 in all other systems, or exception applied; indicate these fans are sized at the design point of operation		
	C403.8.4	Low-capacity ventilation fans	For all ventilation system fans with motors ≤ 1/12 hp, indicate in equipment schedule the fan efficacy at the minimum rated cfm; or exception applied; refer to Table C403.8.4		
NO	C403.2.4	Variable flow capacity - fans	For fan motors ≥ 5 hp, indicate method of variable flow control (VSD or equivalent method) in equipment schedules; or exception applied		
NO	C403.8.5.1	Fan airflow control	For DX air handling units with cooling capacity ≥ 42,000 Btu/h and evaporative and chilled water air handling units with fan ≥ 0.25 hp, indicate whether system is single zone or multiple zone and related control method (cooling capacity controlled in response to space temperature, space temperature is controlled by modulating supply airflow, or both)		
YES	C403.8.5.1	Fan airflow control	For mechanical cooling systems (includes DX and chilled water coils) that control capacity in response to space temperature - Provide a maximum cfm/sqft (maximum fan speed) is ≤ 50% of full speed drawing ≤ 66% of full speed drawing ≤ 40% of full speed fan power during periods of low cooling or ventilation only; or exception applied		
YES	C403.8.5.1	Fan airflow control	For other mechanical cooling systems (includes DX and chilled water coils) that control space temperature by modulating airflow (i.e. fan-powered VAV boxes,		

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	C406.2.2.1	Improved HVAC TSPR	To comply with this additional efficiency credit, indicate systems are required to provide a TSPR report per C403.1.1c; demonstrate that the proposed design saves ≥ 10% relative to the standard reference design rules; for projects pursuing the credit the TSPR report must show the proposed design exceeds the claimed increase used for pursuance		
ADDITIONAL ENERGY EFFICIENCY MEASURE - MORE EFFICIENT HVAC EQUIPMENT COOLING AND FAN PERFORMANCE					
	C406.2.2.2 C406.2.2.2.1	More efficient cooling and fan performance	To comply with this additional efficiency credit, provide a list of all cooling equipment in the building or credit area and calculations that demonstrate (based on cooling input capacity) that 90% or more of all HVAC cooling equipment serving conditioned floor areas in the building or credit area is delivered by equipment at least 5% better than the values in Tables C403.3.2		
YES	C406.2.2.2 C406.2.2.2.1	More efficient cooling and fan performance	In addition to system selection requirement, demonstrate that 90% or more of all HVAC cooling capacity serving conditioned floor areas in the building or credit area is delivered by equipment at least 5% better than the listed WSEC-efficiency, seasonal or annualized where available other wise use full load efficiency		
	C406.2.2.2 C406.2.2.2.1	More efficient cooling and fan performance	For projects pursuing the credit in accordance with Equation 4-15 include calculations for equipment representing at least 90% of the cooling capacity in the building or credit area that demonstrate the capacity weighted average better than code efficiency; for equipment with multiple requirements the seasonal or annualized efficiency shall be used		
	C406.2.2.2 C406.2.2.2.3	More efficient cooling and fan performance	In addition to system selection and efficiency requirements, if fan energy is not included in equipment sizing or if it has the fan has been upsized from rated conditions, demonstrate fan power is ≤ 0.95% of the allowed fan power in Section C403.8.1		
ADDITIONAL ENERGY EFFICIENCY MEASURE - MORE EFFICIENT HVAC EQUIPMENT HEATING PERFORMANCE					
NO	C406.2.3	More efficient HVAC equipment heating performance	To comply with this additional efficiency credit, provide a list of all heating equipment in the building or credit area and calculations that demonstrate that 90% or more of all HVAC heating capacity serving conditioned floor areas in the building or credit area is delivered by equipment listed in the tables of Section C403.3.2		

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NO	C406.2.3 C406.2.3.2	More efficient HVAC equipment heating performance	In addition to system selection requirement, demonstrate that 90% or more of all HVAC heating capacity serving the building or credit area is delivered by equipment at least 5% better than the values in Tables C403.3.2 seasonal or annualized where available other wise use full load efficiency		
NO	C406.2.3 C406.2.3.3	More efficient HVAC equipment heating performance	For projects pursuing the credit in accordance with Equation 4-16 include calculations for equipment representing at least 90% of the heating capacity in the building or credit area that demonstrate the capacity weighted average better than code efficiency; for equipment with multiple code requirements the seasonal or annualized efficiency shall be used		
NO	C406.2.3 C406.2.3.3	More efficient HVAC equipment heating performance	In C402.1.1 low energy and C402.1.1.1 semi-heated space demonstrate that 90% of the heating capacity in the building or area is provided by electric infrared or gas-fired radiant equipment for localized heating applications.		
VENTILATION, EXHAUST & ENERGY RECOVERY					
NO	C403.7.1.2	Demand control ventilation design	For each required demand control ventilation system, indicate outdoor air automatically changes in response to a CO2 sensor and utilizes a variable speed fan control to reduce systems flow; or exception applied		
YES	C403.2.2.1	Ventilation	If mechanically delivered, indicate that ventilation systems are configured to provide not more than 150% of, but at least the minimum required volume of outdoor air to each zone per IMC, ASHRAE 62.1 or other applicable code (WAC, OSHA, etc.); or exception applied		
	C403.2.2.1	Ventilation	If delivered via natural ventilation, identify required openable area for IMC including minimum openable area to the outdoors or qualifying adjoining spaces; criteria for ensuring required ventilation is provided during all occupied hours of the year (including during inclement outdoor conditions)		
YES	C403.2.2.2	Exhaust	Indicate that exhaust systems are configured to provide not more than 150% of, but at least the minimum required volume from each zone per IMC, or other applicable code (WAC, OSHA, etc.); or exception applied		
YES	C403.4.2.4	Exhaust system off-hour controls	Refer to Requirements List section HVAC Controls for off-hour controls requirements for exhaust systems		

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	C403.7.6.1	Balanced ventilation for Group R-2 occupancy	For Group R-2 dwelling and sleeping units, indicate that each habitable space is provided with a balanced ventilation system; indicate system is configured to provide supply air with ≥ 80% sensible recovery effectiveness		
NO	C403.7.1.1	Demand control ventilation	Identify spaces with ventilation provided by single zone system with air economizer; for each space indicate controls are configured to provide demand controlled ventilation or provide supporting documentation for applied exception		
NO	C403.7.1.1	Demand control ventilation	Provide list of spaces with IMC ventilation occupant load and the occupant outdoor airflow rate listed; for spaces with occupant load ≥ 15 people/1,000 sf per IMC or occupancy sensors, CO2 sensors, or manual controls indicate controls are configured to provide demand controlled ventilation or provide supporting documentation for applied exception		
NO	C403.7.2	Occupancy sensors	For gyms, classrooms, auditoriums, conference/multi-purpose rooms with occupant load ≥ 25 people/1,000 sf per IMC, indicate that these spaces are provided with occupancy-based ventilation air control when space is unoccupied and method (closes outdoor air damper or shuts-off equipment); or alternate means provided to automatically reduce ventilation air when space is partially occupied; or exception applied		
NO	C403.7.3	Ventilation air heating control	For ventilation air systems with supplemental heating capacity that operate in conjunction with heating and cooling systems, indicate that ventilation air is tempered (via heating or heat recovery) to ≥ upper setpoint than 55° F when the space conditioning system is in cooling mode		
	C403.7.4.2	Ventilation controls for Group R-1 guestrooms	Indicate method of ventilation and exhaust isolation for each guest room and automatic controls that are configured to turn off ventilation and exhaust airflow when each room is unoccupied		
	C403.8.4	Group R occupancy exhaust fan efficacy	Refer to Requirements List section Fans & Fan Controls		
	C403.7.5 C403.7.5.1	Enclosed loading dock, indicate ventilation / exhaust system method of activation (gas detection system for CO and NO2, or occupancy sensors), and control method (staged or modulating); if total ventilation system fan motor nameplate horsepower is ≥ 5 hp, indicate VSD or equivalent motor drives			

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	C403.7.5 C403.7.5.2	Enclosed parking garage ventilation	For enclosed parking garages, indicate ventilation / exhaust system activated by gas detection system for CO and NO2, and configured to operate at ≤ 25% capacity; or exception applied; if total ventilation system fan motor nameplate horsepower is > 5 hp, indicate VSD or equivalent motor drives		
NO	C403.7.6.2	Ventilation / exhaust systems energy recovery	For systems with design ventilation air > 5,000 cfm, or design supply air cfm and % outdoor air that exceeds the values in Tables C403.7.6(1) or (2), indicate exhaust air energy recovery method; or exception applied with supporting calculations		
YES	C403.7.6.2	Ventilation / exhaust systems energy recovery	For rooms served by multiple systems with aggregate design ventilation air > 5,000 cfm, indicate exhaust air energy recovery for the ventilation air exceeding the values in Tables C403.7.6(1) or (2), indicate exhaust air energy recovery method; or exception applied with supporting calculations		
YES	C403.7.6.2	Ventilation / exhaust systems energy recovery	Indicate energy recovery rated sensible recovery effectiveness ≥ 68% or a enthalpy recovery ratio ≥ 60%		
	C403.7.7.1 C403.7.7.2 C403.7.7.3	Kitchen exhaust hood system	Indicate on plans the type, duty, UL rating and exhaust airflow rate of each kitchen hood		
	C403.7.7.1 C403.7.7.2 C403.7.7.3	Kitchen exhaust hood system	Provide calculations that show a balanced accounting of total kitchen exhaust (include all hoods) with % of: supply air, transfer air from adjacent spaces, and make-up air		
	C403.7.7.1 C403.7.7.2 C403.7.7.3	Kitchen exhaust hood system	For hoods with make-up air drawn directly into the exhaust air cavity of each hood, indicate that the supply airflow rate does not exceed 10% of hood exhaust airflow rate		
	C403.7.7.1 C403.7.7.2 C403.7.7.3	Kitchen exhaust hood system	For kitchens with total hood exhaust exceeding 2,000 cfm, indicate that each hood in UL 710 rated and maximum exhaust airflow rate of each hood is per Table C403.7.7.1.1; or exception applied		
	C403.7.7.1 C403.7.7.2 C403.7.7.3	Kitchen exhaust hood system	For kitchens with total hood exhaust exceeding 2,000 cfm, indicate demand control kitchen ventilation configured to a minimum 50% reduction in exhaust and replacement air system flows in response to alliance operation; or exception applied		
	C403.7.7.2	Laboratory exhaust systems energy recovery	For buildings with total lab exh

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NO	C403.4.11.1 C403.4.11.2 C403.4.11.3	Indicate system has the capability and is configured for trending and graphically displaying input / output points					
NO	C403.4.14.4	DDC demand response setpoint adjustment	For buildings with ≥ 780,000 Btu/h of mechanical cooling, indicate controls are configured to automatically increase the cooling setpoint and decrease the heating setpoint by 2°F (1.1°C) in response to a demand response signal.				
NO	C403.4.1.7	Demand responsive controls	Indicate thermostatic controls for heating or cooling systems are provided with demand response controls are capable of increasing the cooling setpoint and decreasing the heating setpoint by 4°F (2.2°C) in response to an override of energy consumption or demand automatically in a demand response signal.				
NO	C403.2.3	HVAC System Fault detection and diagnostics	For buildings ≥ 150,000 square feet, indicate HVAC systems have fault detection and diagnostics with sensors and communications capable of detecting HVAC system faults, provide prioritized recommendations for fault repair, and communicate faults and recommendations to remotely located authorized personnel.				

ADDITIONAL ENERGY EFFICIENCY MEASURE – DWELLING UNIT HVAC CONTROLS

NO	C406.2.1	Dwelling unit HVAC controls	To comply with this additional efficiency credit, provide control design for a manual main control or occupancy sensor based controls, or provide control specification and provide test sheets demonstrating compliance with learning thermostat or geographic sensing options.				

ADDITIONAL EFFICIENCY CREDIT - FAULT DETECTION AND DIAGNOSTICS

NO	C406.2.2.7	Fault detection and diagnostics	To comply with this additional efficiency credit, demonstrate HVAC systems comply with Items 1 through 6 in Section C403.2.3, Exception 1 to Section C403.2.3 may comply with Section C403.2.3 or C403.4.10(16) can use this credit				

LOAD MANAGEMENT MEASURE - HVAC LOAD MANAGEMENT

NO	C406.3.2	HVAC load management	To comply with the additional efficiency credit, indicate automatic controls connected to central DDC having digital input capable of being activated by external utility signal, where utility real-time demand or wireless demand monitoring installed and controls configured to utilize demand signals				

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NO	C406.3.2	HVAC load management	Indicate electric cooling controls configured to gradually increase the cooling setpoint by at least 3°F over 3 hours during summer peak periods; , indicate electric heating controls configured to gradually decrease the heating setpoint by at least 3°F over 3 hours during winter peak periods				

DUCTWORK, SHAFTS AND PLENUMS

YES	C403.10.1.1 C403.10.2	Duct construction	Indicate on plans that all ductwork is constructed and sealed per SMC				
YES	C403.10.1.1 C403.10.2	Duct construction	For outdoor air ductwork, also indicate on plans that ductwork meets air leakage requirements per C402.5 and vapor retarder requirements per the IBC				
YES	C403.10.2.1 C403.10.2.2 C403.10.2.3	Duct pressure classifications	Identify location of low, medium and high pressure ductwork on plans				
NO	C403.10.2.3	High pressure duct leakage test requirements	Indicate high pressure duct leakage testing requirements on plans; provide test results to jurisdiction when completed				
YES	C403.10.1.1 C403.10.1.2	Duct insulation	For outdoor air ductwork located within conditioned space (upstream or downstream of shutoff damper), identify continuous duct airflow, and indicate ductwork insulation R-value per Table C403.10.1.2 on plans; or exception applied				
YES	C403.10.1.1 C403.10.1.2	Duct insulation	For supply and return air ductwork located within unconditioned space or outdoors, identify continuous duct airflow and indicate ductwork insulation R-value per Table C403.10.1.2 on plans; or exception applied				
YES	C403.10.1.1 C403.10.1.2	Duct insulation	For supply air ductwork located within conditioned space, identify on plans if design supply air temperature is < 55°F or > 105°F; indicate ductwork insulation R-value per Table C403.10.1.2 on plans; or exception applied				
YES	C403.10.1.1 C403.10.1.2	Duct insulation	For return and exhaust air ductwork located within conditioned space (upstream of the shutoff damper) and downstream of an energy recovery media, indicate ductwork insulation R-value per Table C403.10.1.2; or exception applied				
YES	C403.10.1.1 C403.10.1.2	Duct insulation	For exhaust and relief air ductwork located within conditioned space (upstream of the shutoff damper), indicate ductwork insulation R-value per Table C403.10.1.2; or exception applied				
YES	C403.10.1.1 C402.1.3	Shaft and plenum insulation	For outdoor air shaft and plenums, indicate on plans that the R-value of insulation in these elements complies with Table C402.1.3 for steel-framed walls				

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PIPING

	C403.10.5	Piping insulation	Indicate design temperature range of fluid conveyed in piping and thickness of insulation (in inches) on hydronic piping plans; or exception applied				
	C403.10.5.1	Protection of piping insulation	Indicate method of protection of pipe insulation from damage / degradation on hydronic piping plans				
YES	C403.10.6	HVAC w/Ingerant piping insulation	Indicate refrigerant piping insulation to be installed on all but gas lines and on some liquid lines per C403.10.6; indicate insulation conductivity ≤ 0.26 Btu x in/(h x ft2 x °F)				

ECONOMIZERS

YES	C403.5	Air economizer required	Identify all cooling systems requiring air economizer controls in equipment schedules on plans and in WSEC mechanical equipment compliance reports				
NO	C403.5	Air economizer exceptions	Indicate all systems utilizing air economizer exceptions in WSEC mechanical equipment compliance report, including those with water-side economizer in lieu of air economizer; indicate on plans and in WSEC mechanical equipment compliance reports of eligible exception(s) taken and measures to comply with exception(s)				
YES	C403.4.1 C403.5.1	Integrated economizer operation - air and water	Indicate air and water-side economizers are configured for partial cooling operation even where additional mechanical cooling is required to meet the load				
NO	C403.4.1 C403.5.1	Integrated economizer operation - air and water	For DX air handlers with single or multiple stages of mechanical cooling; indicate controls are configured with a minimum of 2 compressors in the first stage of cooling				
NO	C403.4.1 C403.5.1	Integrated economizer operation - air and water	Refer to Requirements List section HVAC Controls for additional requirements for DX air handlers				
YES	C403.5.2	Economizer heating system impact - air and water	Verify control method of HVAC systems with economizers does not increase building heating energy usage during normal operation				
YES	C403.5.3.3	Air economizer capacity	Indicate modulating outdoor air and return air dampers are configured to provide up to 100% outdoor air for cooling				
YES	C403.5.1 C403.5.3.2	Air economizer controls and integrated operation	Indicate that economizer controls are configured to provide partial economizer cooling when additional mechanical cooling is also required to meet the cooling load				
YES	C403.5.1 C403.5.3.2	Air economizer controls and integrated operation	Indicate that control of economizer dampers is not based only on mixed air temperature; or exception applied for systems with cooling capacity ≤ 65,000 Btu/h				

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YES	C403.5.3.3	Air economizer high limit controls	Indicate high limit shut-off control method and required high limit per Table C403.5.3.3				
NO	C403.5.3.4	Relief of excess outdoor air	Refer to Requirements List section Ventilation, Exhaust & Energy Recovery				
NO	C403.5.3.4	Relief of excess outdoor air	Indicate relief air outlets are sized and configured to relieve excess building air during air economizer operation to prevent building over pressurization				
NO	C403.5.3.4	Relief of excess outdoor air	Indicate relief air outlet are located to avoid recirculation into the building				
	C403.5.4.4.1	Water economizer capacity	For eligible systems where water-side economizer may be provided in lieu of air economizer, indicate system is capable of 100% design cooling capacity at 55°F db / 45°F wb outdoor air temperature; indicate if threshold for 100% design cooling capacity at outdoor air temperature is lowered to 45°F db / 40°F wb due to dehumidification requirements				
	C403.5.4.4.2	Water economizer pressure drop	Indicate that the pressure drop across waterside cooling coils and heat exchangers in water economizer systems do not exceed 15 feet (4572 mm)				
NO	C403.5.5	DX equipment economizer fault detection and diagnostics	For DX air handlers with economizer and cooling capacity ≥ 54,000 Btu/h, provide a fault detection and diagnostics (FDD) system to monitor economizer system operation and report faults				

HYDRONIC SYSTEMS - EQUIPMENT SELECTION & PERFORMANCE

NO	C403.3.2.5	Maximum air cooled chiller capacity	For chilled water plants and buildings with > 500 tons of cooling capacity, indicate air-cooled chiller capacity is ≤ 300 tons, or exception applied				
	C403.3.2.2	Large capacity cooling systems	For buildings ≥ 500 tons of cooling capacity, indicate method of multi-stage or variable capacity control (VSD, multiple-speed compressors, or max capacity of any single unit				
	C403.3.2.4	Non-standard water-cooled centrifugal chillers	For water-cooled centrifugal chillers not designed for operation at standard conditions, provide calculations documenting maximum full load and part load rated equipment performance requirements				
	C403.3.3	Hot gas bypass limitation for chillers	For cooling equipment with hot gas bypass, provide either multiple step unloading or continuous capacity modulation; indicate bypass capacity per Table C403.3.3				
	C403.4.3 C403.3.4.4	Large capacity boiler systems	For hydronic systems with only a single boiler with ≥ 1,000,000 Btu/h input capacity, indicate multi-stage or modulating burner				

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	C403.4.3 C403.3.4.4	Large capacity boiler systems	For hydronic systems with input capacity ≥ 1,000,000 Btu/h input capacity, indicate turndown ratio per Table C403.3.4.4 and method (multiple single input boilers, modulating boilers, or combination)				
NO	C403.3.4.1	Large capacity boiler systems	For all boiler systems with input capacity ≥ 2,500,000 Btu/h and all systems where one stack serves 2 or more boilers with a combined input capacity ≥ 2,500,000 Btu/h, indicate combustion air positive shut-off is provided to restrict airflow through the combustion chamber during standby (e.g. flue or vent dampers).				
NO	C403.3.4.2	Large capacity boiler systems	For boiler systems with combustion air fans ≥ 10 hp, indicate variable speed fan				
NO	C403.3.4.3	Large capacity boiler systems	For boiler systems with input capacity ≥ 5,000,000 and a steady state full-load combustion efficiency <90 percent, indicate combustion air volume to be automatically regulated to within 5% of the minimum required to maintain the efficiency specified in Table C403.3.4.3. Exception: If applied.				
NO	C403.3.4.5 C403.3.4.5.1 C403.3.4.5.2	High capacity space heating gas boiler systems	For gas hot water space heating systems with ≥ 1,000,000 Btu/h and ≤ 10,000,000 Btu/h capacity, indicate boiler thermal efficiency ≥ 90 percent at design input when supplying hot water at design conditions or have a boiler return water temperature ≤ 120°F; values and controls to ensure under all operating conditions the water temperature entering the boiler is ≤ 120°F or the cooling loads, or discrete, are directly into the return system is ≤ 20 percent of design flow of the operating boilers.				
	C403.2.4	Variable flow capacity - pumps	For pump motors ≥ 5 hp, indicate method of variable flow control (VSD or equivalent method) in equipment schedule, or exception applied				
NO	C403.3.7	Hydronic system flow rate	Indicate chilled water and condenser water flow types and operating hours, and maximum flow rate is less than or equal to Table C403.3.7.				
NO	C403.3.8.1	Chilled-water coil selection	Indicate chilled-water coils sized to provide a 15°F difference between leaving and entering water temperature and a minimum 57°F leaving water temperature at design conditions , or exception applied				
NO	C403.3.8.2	Hot-water coil selection	Indicate hot-water coils sized to provide a 20°F difference between leaving and entering water temperature and a maximum 110°F entering water temperature at design conditions , or exception applied				

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NO	C403.4.12	Pressure independent control valves	For heating and cooling water coils with a design flow ≥ 5 gpm, indicate modulating pressure independent control values are provided				

HYDRONIC SYSTEMS - CONTROLS

	C403.4.1	Boiler sequencing	Indicate automatic controls that sequence operation of multiple boilers				
	C403.4.3.2	Two-pipe changeover systems	Indicate changeover deadband is ≥ 35°F (19°C) and changeover controls are configured to restrict activation of heating modes are active for a minimum 4 hours before changeover and that the delta between heating / cooling supply temperatures at changeover point is				
	C403.4.1.5	Hot water boilers	For hot water boilers that provide building heating via one- or two- pipe systems, indicate controls are configured to provide temperature setback based on outdoor temperature				
	C403.4.4	Hydronic system part load controls and supply-water temperature reset	For heating and chilled water systems with ≥ 500,000 Btu/h input capacity, indicate system controls are configured to automatically reset supply water temperature based upon demand or exception applied				
	C403.4.4	Hydronic system part load controls and supply-water temperature reset	Indicate automatic pump flow controls are configured to reduce system flow rate by ≥ 50%, or the maximum allowed by the equipment manufacturer, based upon the heating or cooling loads, or discrete, or by any required				
	C403.4.4	Hydronic system part load controls and supply-water temperature reset	For hydronic systems with output capacity ≥ 300,000 Btu/h that serve heating water systems, chilled water systems and water-cooled unitary air conditioners, indicate that pumps are controlled with a variable speed drive if one of the following conditions apply: 1) Design heat loss or cool load is ≥ 5 hp and pumps are designed to operate continuously or per time schedule; 2) System pump motor hp is ≥ 7.5 hp and pumps are controlled by automatic DDC configured to only operate pumps when there is a call for zone heating or cooling				
	C403.4.4	Hydronic system part load controls and supply-water temperature reset	Where variable speed drives are required, indicate system is configured so that pump motor power is ≤ 30% of design wattage at 50% of design flow rate; indicate pump flow is controlled to maintain one control valve nearly wide open, or to maintain a minimum differential pressure; or exception applied				

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	C403.4.6	Hydronic system variable pump flow control	For individual pumps required to have variable speed controls, indicate manner of pump speed control (differential pressure, static pressure setpoint, zone heating or cooling demand, or based on the relationship between variable speed controller frequency and power)				
	C403.4.5	Chiller / boiler plant pump isolation	Indicate controls are configured to automatically reduce minimum flow and shut-off flow through individual chillers and boilers when not in use				
	C403.4.3.3.1	Water loop heat pump - temperature deadband	Indicate method of water loop temperature control (zoned plant equipment controls are configured to provide ≥ 20°F water supply temperature deadband between heat injection and heat addition modes, or controls are configured for system loop temperature optimization)				
	C403.4.3.3.2	Water loop heat pump - heat rejection equipment	Indicate type of cooling tower (open- or closed-circuit) in equipment schedule; indicate whether the cooling tower is used directly in the heat pump loop or in conjunction with a separate heat exchanger; indicate method used to limit system heat loss when heat rejection is not needed				
	C403.4.3.3.3	Water loop heat pump - isolation valves	For hydronic heat pump systems with total system power > 10 hp, indicate 2-way isolation valves on each heat pump and variable flow system operation				

HEAT REJECTION & RECOVERY - EQUIPMENT SELECTION & PERFORMANCE

	C403.9.1.3	Cooling tower flow turndown	For open-circuit cooling towers configured with multiple- or variable-speed condenser water pumps, indicate system is designed so all cells can be run in parallel; indicate method of condenser pump turn-down control				
	C403.9.2.1	Heat recovery for service water heating	For buildings with 24-hour operation and > 1,500,000 Btu/h of heat rejection capacity and design service hot water load is ≥ 250,000 Btu/h, indicate condenser heat recovery is pre-heat service water; or exception applied. Indicate design service water heating rate of recovered heat based on annual service water heat rejection load or per Section C406				
	C403.9.2.2	Steam condensate systems heat recovery	For buildings with on-site steam heating systems, indicate condensate water heat recovery; or exception applied				
	C403.9.2.2	Steam condensate systems heat recovery	For buildings that use off-site generated steam where condensate is not returned to the source, indicate on-site condensate water heat recovery				
	C403.9.2.3	Refrigeration condenser heat recovery	For buildings with food service, meat or deli departments that have ≥ 500,000 Btu/h of remote refrigeration capacity for coolers / freezers, indicate condenser heat recovery and use of captured energy (service water heating, space heating, or dehumidification reheating)				
	C403.9.2.3	Refrigeration condenser heat recovery	For buildings with ≥ 40,000 sf conditioned floor area and ≥ 1,000,000 Btu/h of remote refrigeration capacity, indicate condenser heat recovery to pre-heat service water; indicate remaining recovered heat is applied to space heating or dehumidification reheating				
	C403.9.2.4	Condenser heat recovery for space heating	For buildings that operate ≥ 70 hour per week, that are not served by a DX/AS with energy recovery, and have ≥ 3,500,000 Btu/h of heat rejection capacity and ≥ 0.45 cfm per sf of design minimum supply airflow with reheat, indicate condenser heat recovery is provided for space heating that complies with Sections C403.9.2.4.1 or C403.9.2.4.2 or C403.9.2.4.3				
	C403.9.2.4.1	Water to water heat recovery	Indicate that 90% or more of the total building space heating and ventilation air design loads are served by heat energy rejected from either a heat recovery chiller or the cooling loop of water to water heat pump equipment				
	C403.9.2.4.2	Exhaust heat recovery	Indicate that waste heat is recovered from heat 90% of the total building exhaust airflow such that leaving exhaust air temperature while in heat recovery mode is 55°F dry bulb; note exhaust air systems eligible for exception to this requirement				

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	C403.9.2.4	Condenser heat recovery for space heating	For open-circuit cooling towers configured with multiple- or variable-speed condenser water pumps, indicate system is designed so all cells can be run in parallel; indicate method of condenser pump turn-down control				
	C403.9.2.5	Heat recovery for service water heating	For buildings with 24-hour operation and > 1,500,000 Btu/h of heat rejection capacity and design service hot water load is 250,000 Btu/h, indicate condenser heat recovery is pre-heat service water; or exception applied. Indicate design service water heating rate of recovered heat based on annual service water heat rejection load or per Section C406				
	C403.9.2.2	Steam condensate systems heat recovery	For buildings with on-site steam heating systems, indicate condensate water heat recovery; or exception applied				
	C403.9.2.2	Steam condensate systems heat recovery	For buildings that use off-site generated steam where condensate is not returned to the source, indicate on-site condensate water heat recovery				
	C403.9.2.3	Refrigeration condenser heat recovery	For buildings with food service, meat or deli departments that have ≥ 500,000 Btu/h of remote refrigeration capacity for coolers / freezers, indicate condenser heat recovery and use of captured energy (service water heating, space heating, or dehumidification reheating)				
	C403.9.2.3	Refrigeration condenser heat recovery	For buildings with ≥ 40,000 sf conditioned floor area and ≥ 1,000,000 Btu/h of remote refrigeration capacity, indicate condenser heat recovery to pre-heat service water; indicate remaining recovered heat is applied to space heating or dehumidification reheating				
	C403.9.2.4	Condenser heat recovery for space heating	For buildings that operate ≥ 70 hour per week, that are not served by a DX/AS with energy recovery, and have ≥ 3,500,000 Btu/h of heat rejection capacity and ≥ 0.45 cfm per sf of design minimum supply airflow with reheat, indicate condenser heat recovery is provided for space heating that complies with Sections C403.9.2.4.1 or C403.9.2.4.2 or C403.9.2.4.3				
	C403.9.2.4.1	Water to water heat recovery	Indicate that 90% or more of the total building space heating and ventilation air design loads are served by heat energy rejected from either a heat recovery chiller or the cooling loop of water to water heat pump equipment				
	C403.9.2.4.2	Exhaust heat recovery	Indicate that waste heat is recovered from heat 90% of the total building exhaust airflow such that leaving exhaust air temperature while in heat recovery mode is 55°F dry bulb; note exhaust air systems eligible for exception to this requirement				

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	C403.9.2.4.3	Process heat recovery	In spaces with 5 watts per sf year-round cooling loads from lights and equipment, indicate that these spaces are served by water-cooled equipment configured for heat recovery				
	C403.9.2.4.3	Process heat recovery	If these spaces are served by economizer (air or water), indicate automatic controls are configured to disable economizer operation when the heat recovery mode is active				

ADDITIONAL ENERGY EFFICIENCY MEASURE - IMPROVED LOW CARBON DISTRICT ENERGY SYSTEMS (10%)

NO	C406.2.2.4	Improved low-carbon district energy systems (10 percent better).	Provide calculations showing 50% or more of the annual service water and space heat energy use or 90% or more of the annual heating energy use is met by a district energy exchange system complying with C406.2.2.4.1 or a district energy heating and/or cooling system complying with C406.2.2.4.2; provide documentation the system is operational and is in accordance with this section prior to the final inspection.				
NO	C406.2.2.5.1	Improved low-carbon district energy exchange systems (20 percent better)	Provide calculations and documentation that 50% of the annual district-system-net-load-met (sum of heating and cooling energy provided to attached building) comes from heat recovery between connected buildings, waste heat, or renewable energy resources; and no more than 10% of the annual heat input to the system comes from fossil fuel or electric-resistance sources.				
NO	C406.2.2.5.2	Improved low-carbon district energy heating and cooling energy systems (20 percent better)	Provide calculations and documentation that distribution losses are less than or equal to 5% of the annual load delivered to buildings served by the system; and that the system complies with one of the following: 1) 65% of the annual district-system-net-load-met (sum of heating and cooling energy provided to attached buildings) comes from heat recovery between connected buildings, waste heat, or renewable energy resources and no more than 25% of the annual heat input to the system comes from fossil fuel or electric-resistance sources, or, 2) 10% or less of the system annual heat input to the system comes from fossil fuels, electric-resistance sources, or heat pump sources with an annual COP < 3				

ADDITIONAL ENERGY EFFICIENCY MEASURE - IMPROVED LOW CARBON DISTRICT ENERGY SYSTEMS (20%)

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NO	C406.2.2.5	Improved low-carbon district energy systems (20 percent better).	Provide calculations showing 90% or more of the annual service water and space heat energy use or 90% or more of the annual heating energy use is met by a district energy exchange system complying with C406.2.2.4.1 or a district energy heating and/or cooling system complying with C406.2.2.4.2; provide documentation the system is operational and is in accordance with this section prior to the final inspection.				
NO	C406.2.2.5.1	Improved low-carbon district energy exchange systems (20 percent better)	Provide calculations and documentation that 50% of the annual district-system-net-load-met (sum of heating and cooling energy provided to attached building) comes from heat recovery between connected buildings, waste heat, or renewable energy resources; and no more than 10% of the annual heat input to the system comes from fossil fuel or electric-resistance sources.				
NO	C406.2.2.5.2	Improved low-carbon district energy heating and cooling energy systems (20 percent better)	Provide calculations and documentation that distribution losses are less than or equal to 5% of the annual load delivered to buildings served by the system; and that the system complies with one of the following: 1) 65% of the annual district-system-net-load-met (sum of heating and cooling energy provided to attached buildings) comes from heat recovery between connected buildings, waste heat, or renewable energy resources and no more than 25% of the annual heat input to the system comes from fossil fuel or electric-resistance sources, or, 2) 10% or less of the system annual heat input to the system comes from fossil fuels, electric-resistance sources, or heat pump sources with an annual COP < 4				

LOAD MANAGEMENT MEASURE - COOLING ENERGY STORAGE

NO	C406.3. 5	Cooling energy storage	To comply with this additional efficiency credit, indicate automatic controls connected to central DDC having digital input capable of being activated by external utility signal, where utility real-time demand or wireless demand monitoring installed and controls configured to utilize demand signals				
NO	C406.3. 5	Cooling energy storage	Provide calculation of ice or chilled water storage capacity with maximum 6 1/3% per day capacity loss and controls to activate storage to reduce peak period electric demand; provide calculation of storage capacity				

MULTIPLE ZONE AIR SYSTEMS

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	C403.8.1	Air systems serving multiple zones	Identify supply air systems serving multiple zones and the zones they serve on plans; indicate whether system is VAV and method of primary air control; or provide supporting documentation for applied exception to VAV				
	C403.8.1	VAV air terminal primary supply airflow	Provide equipment schedules on plans that list all VAV air terminals and specify Class 2 airflow sensors and parallel air terminals; single duct and dual duct air terminals, etc.)				
	C403.8.1	VAV air terminal primary supply airflow	For each air terminal include: maximum primary supply airflow rates during zone peak heating and zone peak cooling; minimum terminal airflow during reheating, recooling or mixing; minimum ventilation airflow rate, and the basis for these values; if IMC or ASHRAE 62.1 multiple zone equation is the basis for minimum flow rates, provide this calculation on plans				
	C403.8.2	Single duct VAV terminal units	Indicate single duct terminal units are configured to reduce primary supply air before reheating or recooling				
	C403.8.3	Dual duct systems - terminal units	For systems with separate warm air and cool air ducts, indicate terminal units are configured to reduce the flow from one duct to minimum before mixing with air from the other duct				
	C403.8.8 C403.8.9	VAV system static - pressure sensors and DDC set points	Indicate locations of duct static pressure sensors on plans; include at least one sensor per major duct branch; verify controller setpoint pressure at each sensor is ≤ 1.2 inches w.g.				
	C403.8.8 C403.8.9	VAV system static - pressure sensors and DDC set points	For systems with zone level DDC, indicate controls are configured to monitor zone damper positions and reset static pressure setpoint based on the zone requiring most pressure; include control logic that automatically detects and generates an alarm if any zone excessively drives reset logic, and allows building operators to exclude zones from reset logic				
	C403.6.4	VAV system supply air reset	Indicate controls automatically reset supply air temperature in response to building loads or outdoor air temperature; or exception applied				
NO	C403.6.4	VAV system supply air reset	Indicate zones expected to experience relatively constant loads and that maximum air flow is designed to deliver peak capacity at the fully reset supply air temperature.				
	C403.8.5	Multiple-zone VAV system ventilation optimization controls	For systems with zone level DDC controls, indicate controls are configured to automatically reduce outdoor airflow in response to changes in system ventilation efficiency; or exception applied				

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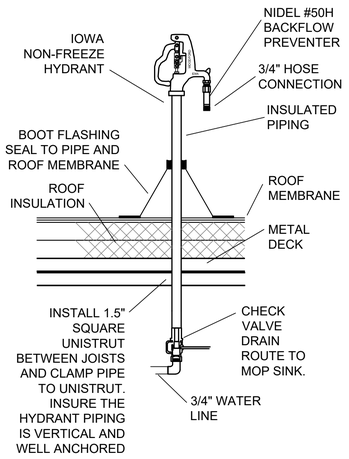
	C403.8.4	Parallel fan powered VAV air terminals	Indicate controls automatically activate or shut off the air terminal fan based on call for heating and / or ventilation; unoccupied modes are configured to activate the terminal fan as needed to maintain space temperatures above the heating cntl; indicate control method of the primary air during warmup or temperature setback mode				

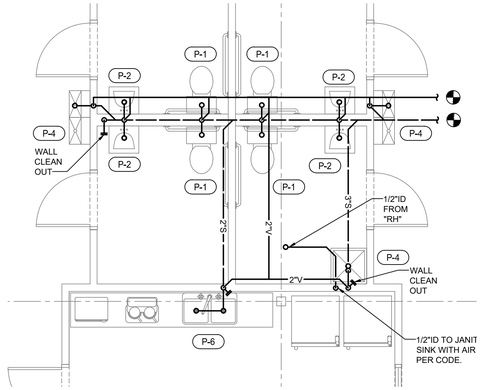
HIGH EFFICIENCY MULTIPLE-ZONE VAV SYSTEMS - EXCEPTION TO C403.3.5 DOAS, MUST COMPLY WITH ALL 15 PROVISIONS TO BE ELIGIBLE

	C403.8.10, Item 1	Minimum area served and zoning	Indicate that each high efficiency multiple-zone VAV system serves an area ≥ 3,000 sf and includes ≥ 3 zones				
	C403.8.10, Item 2	Air economizer	Indicate system is configured for 100% air economizer operation and complies with all related economizer requirements per C403.5 without economizer exceptions				
	C403.8.10, Item 3	Direct digital controls (DDC)	Provide DDC controls for all components of system per C403.4.11 (regardless of system size); identify all DDC system hardware, control points, indicate capability for trending and graphical display				
	C403.8.10, Items 4 and 5	Supply and outdoor airflow measurement and control	For systems with minimum required outdoor air ≥ 2,500 cfm, provide airflow monitoring station that is configured to measure outdoor air intake and total supply airflow; indicate controls are configured for VAV terminal feedback of ventilation system efficiency (per C403.8.5 without exception) and per DCV (per C403.7.1)				
	C403.8.10, Item 6	Zone isolation and maximum area served	Provide a supply airflow monitoring station that is configured to measure supply air volume to each VAV terminals under all load conditions				
	C403.8.10, Item 7	Interior / exterior zone design supply air temperature	Verify maximum area served by a single VAV system is ≤ 50,000 sf, or one entire floor, whichever is greater; in addition if a system serves > 25,000 sf, that includes areas that are expected to be occupied non-simultaneously, indicate zone isolation controls per C403.2.1				
	C403.8.10, Item 8	Maximum air terminal inlet velocity	Verify that VAV terminals serving exterior cooling driven loads are sized per a design supply air temperature that is 5°F higher than VAV terminals serving exterior zones while in cooling mode.				
	C403.8.10, Item 8	Maximum air terminal inlet velocity	Identify all air terminals with minimum primary airflow setpoints ≥ 50% of maximum setpoint in mechanical equipment schedule for those air terminals indicate inlet velocity does not exce



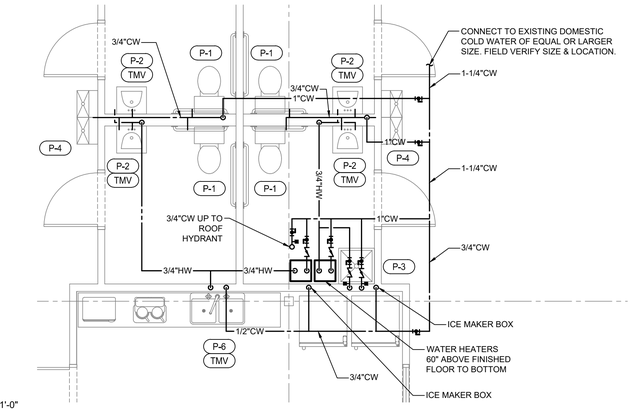
NOT TO SCALE PPS04

7 ROOF HYDRANT



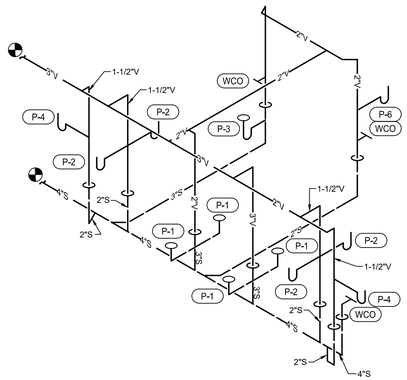
1/4" = 1'-0"

9 RESTROOM SEWER PLAN



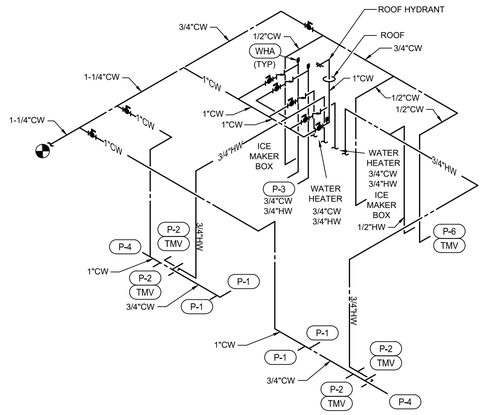
1/4" = 1'-0"

10 RESTROOM WATER PLAN



NOT TO SCALE

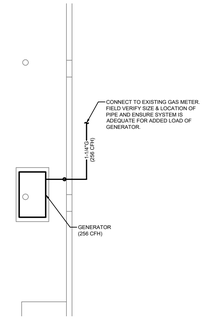
6 PLUMBING WASTE/VENT RISER



NOT TO SCALE

5 PLUMBING WATER RISER

Per City Standard Detail 03.04.02, an approved reduced pressure backflow assembly (RPBA) device is required to be installed on the commercial water service. Upon approval of the installation by the city inspector, the backflow device shall be tested by a Washington State certified backflow assembly tester, and the test report results shall be submitted to the City prior to occupancy of the building.



1/4" = 1'-0"

14 GENERATOR GAS PLAN

LOW PRESSURE GAS PIPE SIZING CHART

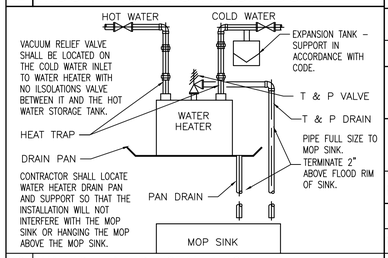
PIPE SIZE	LOAD (CFH)
1/2"	50
3/4"	105
1"	197
1-1/4"	404
1-1/2"	606
2"	1,167
2-1/2"	1,859
3"	3,267
4"	6,704
5"	12,129
6"	19,640
8"	40,353
10"	73,291
12"	116,029

FOR SCHEDULE 40 STEEL PIPE
OPERATING PRESSURE OF 7"WC WITH A
PRESSURE DROP OF 0.5"WC
TOTAL DEVELOPED
LENGTH (FEET) = 100
BASED ON NFPA 54 EQUATION 4-1

FIXTURE	DIM.	REMARKS
TOILET SEATS (ACCESSIBLE)	17"	19" TOP OF SEAT MAX.
URINALS (WHEN REQ'D) (ACCESSIBLE)	17"	TO RIM
LAVATORIES (ACCESSIBLE)	34"	TO RIM, 29" MIN. TO BOTTOM OF APRON
WATER COOLER (ACCESSIBLE)	36"	TO SPOUT
WATER HEATER	60"	A.F.F. TO BOTTOM OF HEATER

PPC01

12 MOUNTING HEIGHT SCHEDULE



13 WATER HEATER INSTALLATION

PLUMBING NOTES:

DESIGN PARAMETERS

1. PLUMBING CODE: UNIFORM PLUMBING CODE
2. PLUMBING OCCUPANCY CLASSIFICATION: Mercantile
   - BUILDING AREA FOR OCCUPANCY - See Sheet A-0 for area
   - OCCUPANT LOAD - See Sheet A-0 for occupancy
   - FIXTURE REQUIREMENTS:
     - WATER CLOSETS - 1 per 500 people
     - LAVATORY - 1 per 750 people
     - DRINKING FOUNTAIN - 1 per 1000 people
     - SERVICE (MOP) SINK - 1 per store
3. SEPARATE FACILITIES ARE REQUIRED FOR MEN AND WOMEN. THERE IS 1 WATER CLOSET AND 1 LAVATORY FOR EACH RESTROOM. IF REQUIRED BY CODE, THERE SHOULD BE 1 URINAL IN THE MEN'S RESTROOM.

GENERAL PLUMBING NOTES:

A. PIPE MATERIAL SHALL BE AS FOLLOWS:

SOIL, WASTE AND VENT (INSIDE BLDG.)	ASTM D2665 PVC-DWV WITH NSF SEAL
SOIL AND WASTE (OUTSIDE BLDG.)	ASTM D3034 PVC
DOMESTIC WATER (UNDER SLAB)	PEX PIPE SEE SPECIFICATIONS
DOMESTIC WATER (INSIDE ABOVE SLAB)	PEX PIPE SEE SPECIFICATIONS
DOMESTIC WATER MAIN (TO WITHIN 5' OF BLDG.)	PEX PIPE SEE SPECIFICATIONS
NATURAL GAS	ASTM A120, SCHEDULE 40 BLACK STEEL WITH FACTORY APPLIED PROTECTIVE COATING FOR UNDERGROUND APPLICATION.
CONDENSATE	PVC, SOLVENT WELDED

B. THE PIPE INSULATION SHALL BE AS FOLLOWS:

DOMESTIC COLD WATER	1/2" POLYOLEFIN CLOSED CELL
DOMESTIC HOT WATER	ABOVE GRADE - SAME AS COLD WATER BELOW GRADE - 3/8" CLOSED CELL SUITABLE FOR UNDERGROUND USE
CONDENSATE (INSIDE BUILDING)	1/2" POLYOLEFIN CLOSED CELL

C. THE ELECTRIC WATER HEATER WILL BE A MINITANK, BOSCH MODEL ES-41M, FURNISHED BY AUTOZONE FOR INSTALLATION BY THE CONTRACTOR.

D. A BACKFLOW PREVENTER SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR, WHEN REQUIRED BY LOCAL CODE. THE BACKFLOW PREVENTER SHALL BE A REDUCED PRESSURE ZONE TYPE, WATTS 909 SERIES. INSTALL THE BACKFLOW PREVENTER IN ACCORDANCE WITH LOCAL CODE. IF BACKFLOW PREVENTER IS INSTALLED INSIDE THE BUILDING, ROUTE THE DRAIN IN THE WALL TO THE MOP SINK AND TERMINATE ABOVE THE FLOOD RIM OF THE SINK.

E. THE WATER CLOSET SHALL BE A 1.6 GALLON PER FLUSH, MAXIMUM.

F. THE LAVATORY FAUCET SHALL HAVE A MAXIMUM FLOW RATE OF 1.0 GPM. THE HANDLES SHALL BE ALL BRASS AND HANDICAP ACCESSIBLE.

G. THE MOP SINK SHALL BE FLOOR MOUNTED. THE FAUCET SHALL HAVE AN INTEGRAL VACUUM BREAKER AND BUCKET HOOK.

H. ALL ABOVE GROUND WATER SUPPLY PIPING SHALL BE INSULATED.

I. FLOOR DRAINS SHALL BE PROVIDED ONLY WHEN REQUIRED BY CODE.

J. PROVIDE WATTS SERIES SHOCK ABSORBERS AT ALL QUICK CLOSING VALVES WHERE APPLICABLE.

K. SHUT OFF VALVES SHALL BE INSTALLED FOR EACH PLUMBING FIXTURE.

PGN01

8 PLUMBING NOTES

	AMERICAN STANDARD	KOHLER	ELJER
P-1 TOILET (ELONGATED HANDICAP)1.28 GPF	"CADET Pro" #215AA104	"HIGHLINE" #K-76301-0	"BELMONT" #091-0120-001BW
	NOTE: TOILET TANK TRIP LEVER TO BE LOCATED ON LAVATORY SIDE OF TANK.		
P-2 LAVATORY	"LUCERNE" #0355.012	"PINIOR" #K-2035	"MURRAY II" #0244
FAUCET	MOEN #8800, 4 INCH CENTERS, 4 INCH WRIST BLADE WITH 1/4 TURN HANDLES, WASHERLESS CARTRIDGES, AND MOEN #52602 0.5 GALLON PER MINUTE FLOW REDUCER. OR CHICAGO FAUCET 895-317E35XKABCP		
DRAIN	MOEN "52660, OFFSET CHROME PLATED TAILPIECE.		
P-3 SERVICE SINK	FIAT #MSB-2424 OR MUSTEE #63		
FAUCET	MOEN #8124 OR CHICAGO FAUCET 897-244XKCABRCF		
P-4 WATER FOUNTAIN	HANDICAP ACCESSIBLE DUAL HEIGHT: ELKAY EZTL-8C OR HALSEY TAYLOR HTV8BL-Q		
P-5 URINAL (IF REQUIRED	"TRIMBROOK" #6561.017	"BARDEN" #K-4960-T	"SAVON" #161-1090
FLUSH VALVE	SLOAN #186-1 OR ZURN #Z6003XL-WS1 OR A/S 6045.101		
P-6 KITCHEN SINK	SINK: JUST #DFL-ADA-1933-A-GR		
FAUCET & DISPOSER	FAUCET: CHICAGO #1100-G2AE35VP317AB		

PPC02

11 PLUMBING FIXTURE SCHEDULE

REVISIONS

1	CITY COMMENTS	4
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AutoZone Store No. 10668
4423 SOUTH MERIDIAN
PUYALLUP WA 98373

PLUMBING PLANS / FIXTURE SCHEDULE / NOTES / DETAILS

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
2550003925
WA. CORPORATE NUMBER: 1754
06/30/26
ROBERT W. HARRIS
STATE OF WASHINGTON
22017869
REGISTERED
PROFESSIONAL ENGINEER
02/04/2026

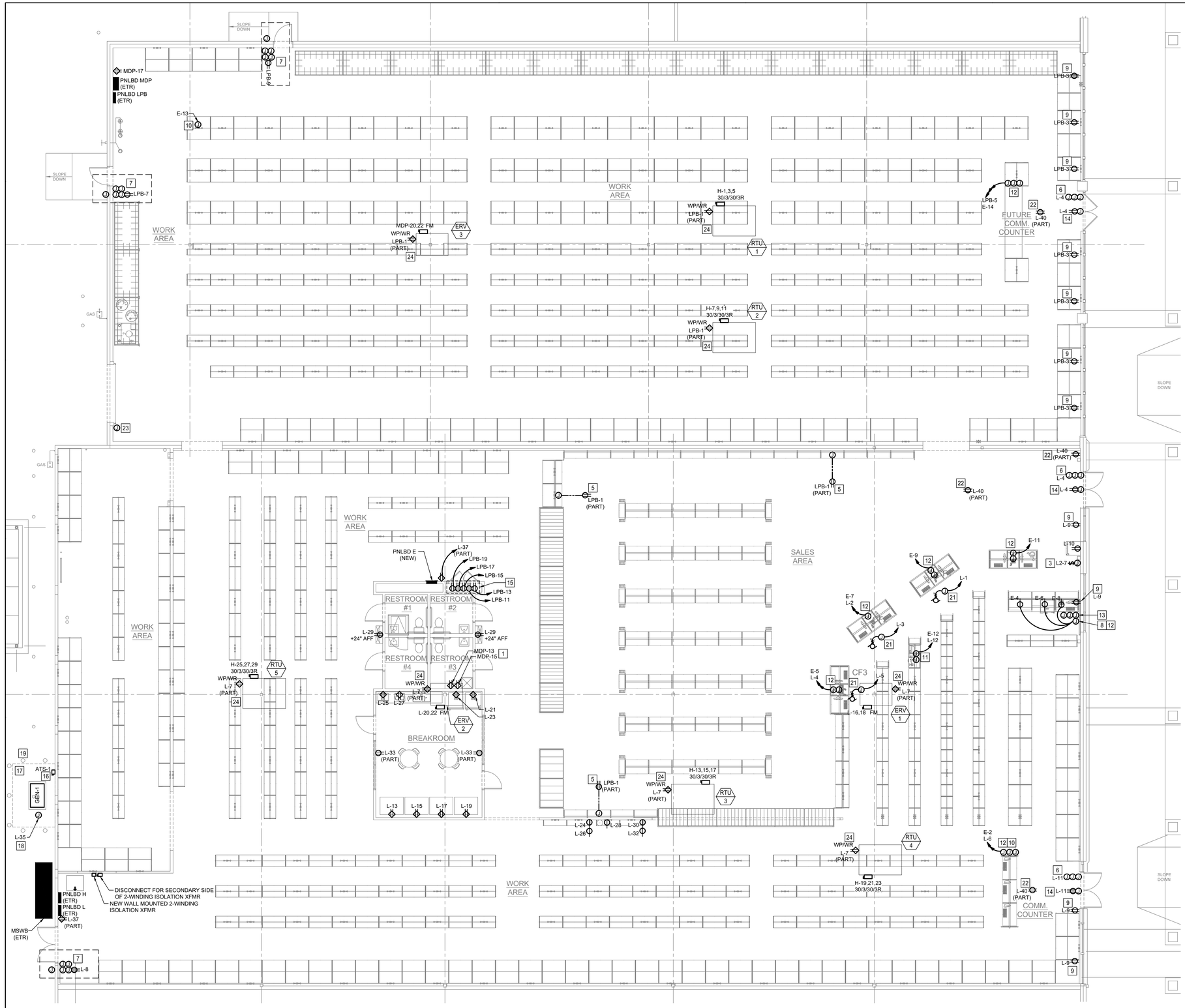
PRCTI20251723

11/21/2025

65W2-REMODEL

P-1

ROBERT W. HARRIS



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

ELECTRICAL POWER PLAN NOTES

1. PROVIDE DEDICATED 20A-1P GFCI RECEPTACLE FOR CONNECTION TO ELECTRIC MINI-TANK WATER HEATER. PROVIDED BY AUTOZONE, ARISTON MODEL GL 4 TI. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS.
2. NOT USED.
3. POWER CONNECTION FOR EXTERIOR SIGNAGE. PROVIDE LOCAL DISCONNECT SWITCH FOR CONNECTION TO SIGNAGE ON EXTERIOR WALL. SIGNAGE CONNECTION IS TO EXTEND THROUGH WALL TO INTERIOR JUNCTION BOX WITH WALL PENETRATION. COORDINATE EXACT EXTERIOR SIGN AND INTERIOR CONNECTION LOCATION WITH ARCHITECT. COORDINATE MOUNTING AND INSTALLATION WITH SIGNAGE VENDOR AND SHOP DRAWINGS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS.
4. PROVIDE DEDICATED 20A-1P RECEPTACLE FOR CONNECTION TO CAMERA. MOUNT OUTLET ON UNISTRUT BELOW ROOF DECK.
5. PROVIDE JUNCTION BOX AT FLOOR LEVEL AND (1) DUPLEX RECEPTACLE MOUNTED TO BASE PLATE. GENERAL CONTRACTOR SHALL SHALL ROUTE 1/2" FLEXIBLE CONDUIT FROM JUNCTION BOX TO RECEPTACLE, FLEXIBLE CONDUIT NOT TO EXCEED 6'. VERIFY EXACT LENGTHS WITH ARCHITECT. REFER TO DETAIL 3 ON SHEET E-1.1 AND ARCHITECT PLANS FOR ADDITIONAL INFORMATION.
6. PROVIDE JUNCTION BOX AT 40" AFF FOR VENSTAR PUSH BUTTON. PROVIDE JUNCTION BOX AT 54" AFF FOR ALARM KEY PAD. PROVIDE JUNCTION BOX 6" ABOVE DOOR FOR BURGULAR ALARM. JUNCTION BOXES ARE TO BE LOCATED ABOVE ONE ANOTHER AND MOUNTED ON POWER POLE, MULLION OR WALL CLOSEST TO OFFICE AREA. REFER TO DETAIL 1, SHEET E-2.1 FOR ADDITIONAL INFORMATION.
7. PROVIDE JUNCTION BOX FOR ACCESS CONTROL. PROVIDE JUNCTION BOX FOR BURGULAR ALARM. PROVIDE JUNCTION BOX FOR FIRE ALARM HORN/STROBE. PROVIDE JUNCTION BOX PULL STATION. PROVIDE JUNCTION BOX ON INSIDE AND OUTSIDE WALL FOR CARD READER. PROVIDE (1) DUPLEX RECEPTACLE. REFER TO DETAIL 3 ON SHEET E-2.1 FOR EXACT HEIGHTS AND ADDITIONAL INFORMATION.
8. PROVIDE (2) JUNCTION BOXES AND POWER POLE ABOVE SUSPENDED CEILING. PROVIDE (2) DUPLEX RECEPTACLES PRE-WIRED ON POLE. PROVIDE (4) SIMPLEX RECEPTACLES HARD-WIRED TO POWER POLE. ROUTE SIMPLEX RECEPTACLES USING FLEXIBLE CONDUIT. INSTALL IN INCONSPICUOUS MANNER AND IN SUCH A MANNER TO NOT AFFECT OPERATION OF DOORS, DRAWERS, ETC. COORDINATE WORK WITH MILLWORK SUPPLIER/INSTALLER. LABEL ALL CIRCUITS AND RECEPTACLES INDIVIDUALLY.
9. PROVIDE SHOW WINDOW RECEPTACLE WITHIN 18" OF TOP OF WINDOW. NO POINT ALONG THE TOP OF WINDOW SHALL BE FARTHER THAN 6'-0" FROM RECEPTACLE IN ACCORDANCE WITH CEC 210.62. MOUNT RECEPTACLE ON WALL OR CEILING AS APPLICABLE. COORDINATE LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN.
10. PROVIDE JUNCTION BOX UNDER ROOF DECK FOR POWER POLE WITH PRE-WIRED DUPLEX RECEPTACLES TO POLE. GENERAL CONTRACTOR SHALL HARDWIRE POWER POLE TO JUNCTION BOX. REFER TO DETAIL 1 ON SHEET E2.0 FOR ADDITIONAL INFORMATION.
11. PROVIDE JUNCTION BOX UNDER ROOF DECK FOR POWER POLE WITH (1) SIMPLE RECEPTACLE AND (1) DUPLEX RECEPTACLE PRE-WIRED TO POLE. GENERAL CONTRACTOR SHALL HARDWIRE POWER POLE TO JUNCTION BOX. LABEL ALL CIRCUITS AND RECEPTACLES INDIVIDUALLY. REFER TO DETAIL 1 ON SHEET E2.0 FOR ADDITIONAL INFORMATION.
12. PROVIDE JUNCTION BOX UNDER ROOF DECK FOR POWER POLE WITH (2) DUPLEX RECEPTACLES PRE-WIRED TO POLE. GENERAL CONTRACTOR SHALL HARDWIRE POWER POLE TO JUNCTION BOX. LABEL ALL CIRCUITS AND RECEPTACLES INDIVIDUALLY. REFER TO DETAIL 1 ON SHEET E2.0 AND ADDITIONAL INFORMATION.
13. PROVIDE (2) JUNCTION BOXES ABOVE SUSPENDED CEILING TO POWER POLE FOR "DATA' & "SECURITY". LABEL EACH JUNCTION BOX INDIVIDUALLY.
14. PROVIDE JUNCTION BOX FOR ALARM AND (1) DUPLEX RECEPTACLE ABOVE DOOR. REFER TO DETAIL 2, SHEET E-2.1 FOR EXACT HEIGHTS AND ADDITIONAL INFORMATION.
15. ALARM AND PHONE BOARD CLOSET. REFER TO DETAIL 5, SHEET E-5.0 FOR EXACT RECEPTACLE HEIGHT AND PLACEMENTS.
16. MOUNT NEMA 3R RATED AUTOMATIC TRANSFER SWITCH TO CHANNEL-STRUT (UNISTRUT) SECURED TO STRUCTURE ADJACENT TO EQUIPMENT IN ACCORDANCE WITH OWNER REQUIREMENTS AND MANUFACTURER'S RECOMMENDATIONS. REFER TO SHEET E1.1, COORDINATE REQUIREMENTS WITH OTHER TRADES PRIOR TO INSTALLATION. T AND OWNER FINAL REQUIREMENTS PRIOR TO FURNISHING AND INSTALLATION.
17. CONTRACTOR TO INSTALL OWNER PROVIDED NEW GENERAC MODEL G007224-0 NG GENERATOR. CONTRACTOR TO PROVIDE NEW 6" CONCRETE HOUSEKEEPING PAD. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS FOR NEW STANDBY GENERATOR WITH BUILDING OWNER, TENANT AND STRUCTURAL ENGINEER PRIOR TO FURNISHING AND INSTALLATION.
18. COORDINATE FINAL CONNECTION REQUIREMENTS FOR GENERATOR CONTROL PANEL WITH MANUFACTURER PRIOR TO FURNISHING AND INSTALLATION.
19. CONTRACTOR SHALL PROVIDE AND INSTALL BOLLARDS TO PROTECT THE GENERATOR FROM PHYSICAL DAMAGE. BOLLARDS SHALL BE OF SUFFICIENT HEIGHT, DIAMETER, AND STRENGTH TO EFFECTIVELY PREVENT VEHICLE IMPACT AND OTHER POTENTIAL HAZARDS AND SHALL BE INSTALLED IN ACCORDANCE WITH AHJ REQUIREMENT, LOCAL BUILDING CODES AND REGULATIONS. COORDINATE WITH THE ARCHITECT AND OWNER FINAL REQUIREMENTS PRIOR TO FURNISHING AND INSTALLATION.
20. NOT USED.
21. PROVIDE JUNCTION BOX FOR AN ON UNISTRUT WHICH HAS BEEN ATTACHED TO THE BOTTOM OF THE CHORD OF THE BAR JOISTS. PROVIDED BY AUTOZONE, FANS ARE HUNTER MODEL #28692 AND THE WALL MOUNTED SPEED CONTROLER IS MODEL #27180. REFER TO DETAIL 2, SHEET E-5 FOR ADDITIONAL INFORMATION. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS.
22. CONTRACTOR TO PROVIDE DUPLEX RECEPTACLE ON UNISTRUT WHICH HAS BEEN ATTACHED TO THE BOTTOM OF THE CHORD OF THE BAR JOISTS FOR OX BLUE SECURITY CAMERA. PROVIDE 3/4" CONDUIT FOR LOW-VOLTAGE WIRING TO LOCATION FROM SECURITY PANEL AS REQUIRED. COORDINATE FINAL REQUIREMENTS WITH OWNER PRIOR TO FURNISHING AND INSTALLATION.
23. PROVIDE JUNCTION BOX FOR ALARM AND (1) 1/2" CONDUIT ABOVE DOOR. REFER TO DETAIL 4, SHEET E-2.1 FOR ADDITIONAL INFORMATION.
24. MOUNT MAINTENANCE RECEPTACLE TO EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. WHERE EQUIPMENT MOUNTING IS NOT ALLOWED, PROVIDE CHANNEL-STRUT (UNISTRUT) SECURED TO STRUCTURE ADJACENT TO EQUIPMENT IN ACCORDANCE WITH OWNER REQUIREMENTS. COORDINATE REQUIREMENTS WITH OTHER TRADES PRIOR TO INSTALLATION.

REVISIONS

1	2	3
4	5	6

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4423 SOUTH MERIDIAN
PUYALLUP WA 98373

ELECTRICAL FLOOR PLAN

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2550003925
WA. CORPORATE NUMBER: 1754
06/30/26

BRIAN C. OLLIGES 11/21/2025
STATE OF WASHINGTON
24015980
REGISTERED PROFESSIONAL ENGINEER

PRCTI20251723

11/21/2025

65W2-REMODEL

E-1.0

BRIAN C. OLLIGES

ELECTRICAL SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

POWER EQUIPMENT V4.03

ELECTRICAL PANELBOARD (SURFACE OR FLUSH MOUNT)

FRONT — TRANSFORMER

200/3/150/3R — DISCONNECT SWITCH,
200/3/150/3R = AMPERES/POLES/FUSE/NEMA ENCLOSURE RATING
CB = CIRCUIT BREAKER (200/3/CB)
FM = FACTORY FURNISHED AND MOUNTED
NF = NON-FUSED
OL = SIZE INDICATED ON ONE-LINE DIAGRAM
NO VALUE FOR NEMA ENCLOSURE = NEMA 1

ELECTRICAL ONE-LINE & RISER DIAGRAM

30A — SWITCH (RATING AND POLES AS INDICATED)

30A 3P 480/277V 20kAIC — DRAWOUT CIRCUIT BREAKER (RATING, POLES, TRIP SIZE AND BREAKER TYPE AS INDICATED)

60A/3 or 100A/3 480/277V 20kAIC — FUSED SWITCH (RATING, POLES, FUSE SIZE AND TYPE AS INDICATED)

60A 3P 480/277V 20kAIC — CIRCUIT BREAKER (RATING, POLES, TRIP SIZE AND BREAKER TYPE AS INDICATED)

PANELBOARD, SINGLE OR MULTI-SECTION (REFER TO SCHEDULES)

75E — TRANSFORMER (TYPE AND RATINGS AS INDICATED)

ATS# — TRANSFER SWITCH (RATINGS AS INDICATED)
ATS = AUTOMATIC TRANSFER SWITCH
MTS = MANUAL TRANSFER SWITCH
NTS = NON-AUTOMATIC TRANSFER SWITCH

(E) ATS — GENERATOR (RATINGS AS INDICATED)

INDICATES CONNECTION TO GROUNDING ELECTRODE SYSTEM IF GENERATOR IS CONNECTED AS A SEPARATELY DERIVED SOURCE

MDP — SWITCHGEAR, SWITCHBOARD AND/OR DISTRIBUTION PANELBOARD (TYPE, RATING, DEVICES AND ACCESSORIES AS INDICATED)

✕F# ✕FP# — FAULT POINT REFERENCED IN SHORT CIRCUIT CURRENT AND VOLTAGE DROP SPREADSHEET

APPLICABLE ELECTRICAL CODES

NOTE: PROJECT IS DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES. THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES STANDARDS AND LOCAL.
REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ELECTRICAL CODE:	**2023 NATIONAL ELECTRICAL CODE**
BUILDING CODE:	**2021 WASHINGTON STATE BUILDING CODE**
ENERGY CODE:	**2021 WASHINGTON STATE ENERGY CODE**

ELECTRICAL GENERAL NOTES:

1. CONTRACTOR'S BID SHALL INCLUDE PROVISIONS TO PROVIDE ALL SERVICES RELATED TO THE CODE REQUIRED BUILDING COMMISSIONING. THIS INCLUDES RETAINING THE SERVICES OF A CERTIFIED COMMISSIONING PROFESSIONAL. PROJECT COMMISSIONING SHALL CONFORM TO THE REQUIREMENTS SECTION C408 OF THE WASHINGTON STATE NON-RESIDENTIAL ENERGY CODE.
2. ALL APPLICABLE LIGHT FIXTURES, EXIT SIGNS AND LIGHTING CONTROL DEVICES AS INSTALLED SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE APPLICABLE ENERGY CODE, AND ANY OTHER STATE AND LOCAL REQUIREMENTS.
3. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: REPAIR OR REPLACE ANY EXISTING DAMAGED OR RECALLED ELECTRICAL EQUIPMENT, LIGHT FIXTURES, WIRING DEVICES AND RELATED CIRCUITRY AND RESTORE ALL ELECTRICAL SYSTEMS TO PROPER WORKING ORDER. THE FINAL ELECTRICAL INSTALLATION SHALL BE FREE FROM ELECTRICAL DEFECTS TO THE SATISFACTION OF THE AHJ, OWNER, ARCHITECT AND ENGINEER.
4. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: VERIFY CONDITION AND AGE OF EXISTING REUSED ELECTRICAL EQUIPMENT, LIGHT FIXTURES, CIRCUIT BREAKERS, FUSES, CONDUIT, SWITCHES AND RELATED WIRING. NOTIFY OWNER OF ANY ELECTRICAL EQUIPMENT, LIGHT FIXTURES AND WIRING AGED BEYOND ITS USEFUL LIFE AND REPLACE AS DIRECTED. THE MAXIMUM EXPECTED USEFUL LIFE SHALL NOT EXCEED THE FOLLOWING. (AS DATED FROM THE POINT OF MANUFACTURE), UNLESS APPROVED BY THE ENGINEER, MANUFACTURER AND OWNER: 20 YEARS FOR CIRCUIT BREAKERS, GENERATOR/UPS SYSTEMS AND LIGHT FIXTURES, 30 YEARS FOR TRANSFORMERS AND PANELBOARDS, 40 YEARS FOR SWITCHBOARDS AND OTHER ELECTRICAL EQUIPMENT.

ITEMS FURNISHED BY AUTOZONE:

A. FUSED DISCONNECTS
B. PANELBOARDS
C. CIRCUIT BREAKERS
D. ALL LIGHT FIXTURES
E. LAMPS
F. LIGHTING CONTROL PANEL & ACC
G. OCCUPANCY SENSING LIGHT SWITCHES
H. PHOTOCELLS
I. CONTROL RELAYS
J. BALLASTS
K. SITE LIGHT POLES OR PREVIOUS

1. ALL WIRING SHALL COMPLY WITH LOCAL AND NATIONAL CODES: THE MOST STRINGENT SHALL GOVERN.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING:
   A. FIELD VERIFIED TYPEWRITTEN PANEL SCHEDULES
   B. COMPLETE "AS BUILT" RED LINE DRAWINGS TO INCLUDE RISER DIAGRAM AND PANEL SCHEDULES.
   C. LABEL ALL ABANDONED BREAKERS AND SEAL BLANKS AS REQUIRED.
3. ALL EXPOSED CONDUIT SHALL BE THE INTERMEDIATE METAL TYPE.
4. ALL INTERIOR WIRING SHALL BE SOFT-DRAWN COPPER. NO ALUMINUM WIRING PERMITTED.
5. ELECTRICAL CONTRACTOR SHALL VERIFY THAT THE ELECTRIC METER AND BASE ARE IN CLEAN SERVICEABLE CONDITION AND THAT ALL PRIMARY CONNECTIONS ARE TIGHT AND SECURE.
6. ALL CIRCUITS SHALL BE GROUNDED AS PER THE NATIONAL ELECTRIC CODE.
7. IF AN ALARM SYSTEM IS REQUIRED SEE SHEET E-7 FOR ELECTRICAL REQUIREMENTS.
8. ALL PRIMARY VOLTAGE WIRE SHALL BE IN CONDUIT END TO END OF CIRCUIT RUN. SIZE CONDUIT AND PROVIDE AND JUNCTION BOXES TO MEET THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE.
9. FOR STORES WITH CEILINGS EXTEND ALL CONDUITS FOR LOW VOLTAGE WIRE, TELEPHONE AND DATA CABLES 8" ABOVE THE PLANE OF THE CEILING WITH A HORIZONTAL TURN OUT.
10. FOR STORES WITHOUT CEILINGS CONDUITS FOR LOW VOLTAGE WIRE, TELEPHONE AND DATA CABLES SHALL BE CONTINUOUS END TO END OF WIRE RUN.
11. REFER TO OTHER SHEETS FOR POWER POLE NOTES AND LOCATIONS, MAN AND SERVICE DOOR REQUIREMENTS AND TO SHEET M-1 FOR LOCATION OF RTU CONVENIENCE OUTLET.
12. PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
13. ELECTRICAL CONTRACTOR TO PROVIDE EMPTY CONDUIT & BOXES BETWEEN RTU'S AND THERMOSTAT LOCATIONS INDICATED. MECHANICAL CONTRACTOR TO PROVIDE CONTROL WIRING AND COMPLETE INSTALLATION.
14. MOUNT JUNCTION BOX TIGHT TO FLOOR FOR DISPLAY BASE FLEX OUTLET. OUTLET ON FLEX TO BE INSTALLED HORIZONTALLY IN FIXTURE BASE AFTER FIXTURES ARE SET IN PLACE.
15. NO RECEPTACLE BRANCH CIRCUIT SHALL BE INSTALLED IN A MULTIWIRE BRANCH CIRCUIT CONFIGURATION. NEUTRAL CONDUCTORS SHALL NOT BE SHARED BETWEEN DIFFERENT CIRCUITS.
16. ALL NEW CONDUIT SHALL BE INSTALLED SO THAT THE CONDUIT IS 1 1/2" FROM THE SURFACE OF THE ROOF DECK IN COMPLIANCE WITH THE REQUIREMENTS OF THE NEC.

1/8" = 1'-0" elec-notes

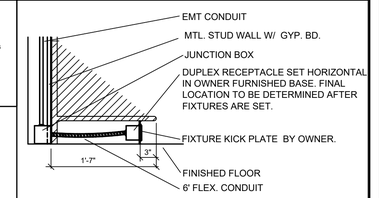
1 ELECTRICAL NOTES

SYM	DESCRIPTION	FURN.	REMARKS
	EXHAUST FAN RECESSED	AUTOZONE	INSTALLED BY HVAC CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
J	JUNCTION BOX	G.C.	SEE SHT. E2 FOR ADDITIONAL JUNCTION BOX LOCATIONS AND REQUIREMENTS AT DOORS FOR ALARMS.
T	THERMOSTAT	AUTOZONE	WALL MOUNT ABOVE ELECTRICAL PANELS. 9'-0" A.F.F. MAX.
FM	HVAC DISCONNECT WITH UNIT		REFER TO HVAC SPECIFICATIONS
P	POWER POLES	AUTOZONE	REFER TO PLAN FOR LOCATION
	SIMPLEX RECPT.	G.C.	REFER TO PLAN FOR LOCATIONS
	DUPLEX RECPT./ FLOOR RECPT.	G.C.	REFER TO PLAN FOR LOCATIONS
	QUADPLEX RECPT.	G.C.	REFER TO PLAN FOR LOCATIONS
WP/WR	WEATHERPROOF DUPLEX RECPT. (GFI)	G.C.	REFER TO PLAN FOR LOCATIONS
J	JUNCTION BOX WITH 6'-0" FLEX CONDUIT AT WALL & H.P. COUNTERS	G.C. (FIXTURE KICK PLATE BY OWNER)	J-BOX AT FLOOR LEVEL, FLEX CONDUIT SET UNDER DISPLAY FIXTURES. RECEPTACLE MOUNTED TO BASE PLATE. SEE DETAIL THIS SHEET

N.T.S. EPL01

2 POWER SCHEDULE

1. ALL WALL SIGNS WILL BE CONNECTED TO HOME RUN CIRCUITRY INSIDE THE BUILDING. THE DETAIL SIGN DRAWINGS WILL INDICATE WHERE THE EXTERIOR WALL PENETRATIONS WILL OCCUR. CONNECT TO J-BOXES LOCATED ON THIS SHEET.
2. IF THE SIGN IS MADE UP OF CHANNEL LETTERS, THEN INSTALL A SECOND J-BOX IN THE LOCATION PRESCRIBED BY THE DETAIL SIGN DRAWINGS.
3. GENERAL CONTRACTOR IS TO COORDINATE THE INSTALLATION BY THE SIGN VENDOR'S INSTALLER OF ALL SIGNS PER THE DETAIL SIGN DRAWING REQUIREMENTS AND MAKE ALL FINAL ELECTRICAL CONNECTIONS.
4. IF SIGNS ARE REQUIRED ON THE SIDE OR REAR WALLS OF THE BUILDING ALL NOTES ABOVE ARE APPLICABLE. SIGN WIRING WILL BE EXTENDED THROUGH WALL TO CONNECT TO SIGN.
5. WHERE NIPPLE PASSES THROUGH THE EXTERIOR WALL INSURE THE PENETRATION IS WATERTIGHT.



NO SCALE

NOTE: REFER TO POWER PLAN FOR LOCATIONS

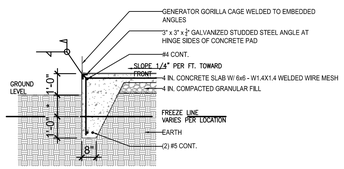
3 RECEPTACLE DETAIL / SUPPLY FIXTURES

FOR REFERENCE ONLY

GENERATOR PAD STRUCTURAL DETAILS

EDGE DETAIL: PROVIDE TURN DOWN CONCRETE EDGE. EXTEND 12 INCHES BELOW FREEZE LINE, TYP.

CONCRETE MIX: 4,000 PSI @ 28 DAYS

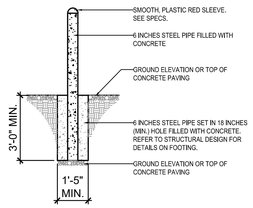


(NOTE – ONE OF OUR ENGINEERS WILL NEED TO EDIT THIS DETAIL AND MAKE IT GENERIC)

4 GENERATOR PAD DETAILS

GENERATOR BOLLARD DETAILS

BOLLARDS: 6 INCHES STEEL PIPE FILLED WITH CONCRETE. VERIFY STRUCTURAL FOR REQUIRED BEARING DEPTH.



5 GENERATOR BOLLARD DETAILS

GENERATOR DETAILS

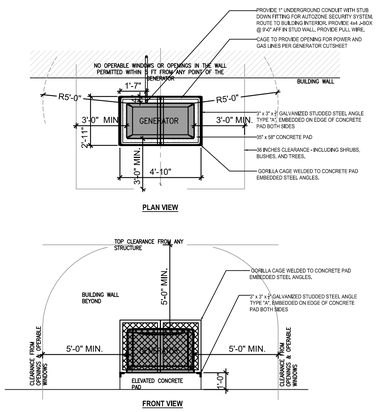
GENERATOR: GENERAC MODEL G007224-0 14kW 60Hz AIR-COOLED GENERATOR FURNISHED BY AUTOZONE. INSTALLED BY GENERAL CONTRACTOR. OVERALL DIMENSIONS: 48.5" WIDE x 25.5" DEEP x 28.8" HIGH

CONCRETE PAD: VERIFY STRUCTURAL DRAWINGS FOR REINFORCING REQUIREMENTS AND DETAILS. DIMENSIONS: 58" WIDE x 35" DEEP. PAD TO BE 12 INCHES ABOVE GROUND SURFACE, UNLESS NOTED OTHERWISE. EDGES RECEIVING CAGE HINGES TO HAVE 3"x3"x¼" GALVANIZED STUDDED STEEL ANGLE TYPE "A" EMBEDDED IN CONCRETE PAD

SECURITY CAGE: CONTACT GORILLA MANUFACTURING – (281) 705-9701 FOR ORDERING CAGES. ASK FOR AUTOZONE SPECIFIC MODEL. VERIFY STRUCTURAL DESIGN FOR DETAILS. CONFIRM GENERATOR BEING PURCHASED WITH MODEL INDICATED ON THIS DETAIL. CONTACT AUTOZONE FOR DIRECTIONS FOR DIFFERENT MODELS. CONTRACTOR RESPONSIBLE TO WELD CAGE TO PAD STEEL ANGLES. SEE STRUCTURAL FOR WELDING DIRECTIONS.

LOCKSET: CAGES ARE DELIVERED WITH AMERICAN LOCK HIDDEN SHACKLE PADLOCK WITH INTERCHANGEABLE CYLINDER TO MATCH AUTOZONE MASTERKEY SYSTEM. CONTRACTOR TO PROVIDE TEMPORARY CORE AND KEY (DIFFERENT THAN CONSTRUCTION CORE) UNTIL PERMANENT CORE IS INSTALLED. AUTOZONE WILL PROVIDE AND INSTALL FINAL CORE.

CONDUIT: PROVIDE 1" UNDERGROUND CONDUIT AS SHOWN ON PLAN. STUB DOWN SIMILAR TO KRALOY FITTINGS, 90 DEGREES STUB DOWN KT90-20.



PLAN VIEW

FRONT VIEW

6 GENERATOR DETAILS

BRIAN C. OLLIGES

REVISIONS

1	2	3
4	5	6

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ELECTRICAL POWER DETAILS

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2500003925
WA. CORPORATE NUMBER: 1754
06/30/26

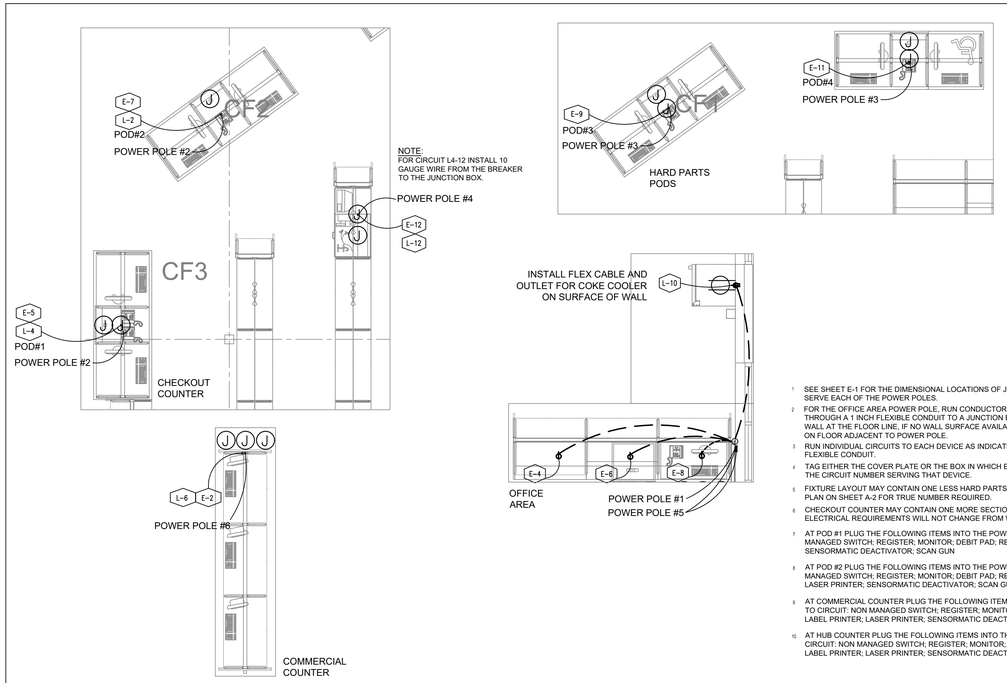
BRIAN OLLIGES 11/21/2025
STATE OF WASHINGTON
24015980
REGISTERED PROFESSIONAL ENGINEER

PRCTI20251723

11/21/2025

65W2-REMODEL

E-1.1



1. SEE SHEET E-1 FOR THE DIMENSIONAL LOCATIONS OF JUNCTION BOXES THAT WILL SERVE EACH OF THE POWER POLES.
2. FOR THE OFFICE AREA POWER POLE, RUN CONDUCTORS DOWN POLE AND OUT THROUGH A 1 INCH FLEXIBLE CONDUIT TO A JUNCTION BOX. MOUNT JUNCTION BOX ON WALL AT THE FLOOR LINE; IF NO WALL SURFACE AVAILABLE THEN LEAVE JUNCTION BOX ON FLOOR ADJACENT TO POWER POLE.
3. RUN INDIVIDUAL CIRCUITS TO EACH DEVICE AS INDICATED IN THE DRAWING IN ½ INCH FLEXIBLE CONDUIT.
4. TAG EITHER THE COVER PLATE OR THE BOX IN WHICH EACH DEVICES IS PLACED WITH THE CIRCUIT NUMBER SERVING THAT DEVICE.
5. FIXTURE LAYOUT MAY CONTAIN ONE LESS HARD PARTS POD SEE OVERALL FIXTURE PLAN ON SHEET A-2 FOR TRUE NUMBER REQUIRED.
6. CHECKOUT COUNTER MAY CONTAIN ONE MORE SECTION THAN SHOWN, HOWEVER, THE ELECTRICAL REQUIREMENTS WILL NOT CHANGE FROM WHAT IS CURRENTLY INDICATED.
7. AT POD #1 PLUG THE FOLLOWING ITEMS INTO THE POWER CONNECTED TO CIRCUIT: NON MANAGED SWITCH; REGISTER; MONITOR; DEBIT PAD; RECEIPT PRINTER; LABEL PRINTER; SENSORMATIC DEACTIVATOR; SCAN GUN
8. AT POD #2 PLUG THE FOLLOWING ITEMS INTO THE POWER CONNECTED TO CIRCUIT: NON MANAGED SWITCH; REGISTER; MONITOR; DEBIT PAD; RECEIPT PRINTER; LABEL PRINTER; LASER PRINTER; SENSORMATIC DEACTIVATOR; SCAN GUN
9. AT COMMERCIAL COUNTER PLUG THE FOLLOWING ITEMS INTO THE POWER CONNECTED TO CIRCUIT: NON MANAGED SWITCH; REGISTER; MONITOR; DEBIT PAD; RECEIPT PRINTER; LABEL PRINTER; LASER PRINTER; SENSORMATIC DEACTIVATOR; SCAN GUN
10. AT HUB COUNTER PLUG THE FOLLOWING ITEMS INTO THE POWER BARS CONNECTED TO CIRCUIT: NON MANAGED SWITCH; REGISTER; MONITOR; DEBIT PAD; RECEIPT PRINTER; LABEL PRINTER; LASER PRINTER; SENSORMATIC DEACTIVATOR; SCAN GUN

1 WIDE FIXTURE LAYOUT - UNDERCOUNTER WIRING

1. OFFICE AREA POWER POLE - 3" DIA. PVC PIPE LABEL FOR POWER WITH BOTTOM OF PIPE 4" ABOVE FLOOR - TWO DUPLEX OUTLETS HARD WIRE TO JUNCTION BOX AT UNDERSIDE OF ROOF DECK BY G.C. ADDITIONALLY SIMPLEX OUTLETS IN JUNCTION BOXES ON FLOOR TO BE HARD WIRED TO POLE WITH FLEXIBLE CONDUIT AND CONNECTED TO MATCHING HOME RUN CIRCUITS IN THE JUNCTION BOX AT THE UNDERSIDE OF THE ROOF DECK.
2. CHECKOUT COUNTER POWER POLE WITH ONE DUPLEX OUTLET PRE-WIRED ON POLE TO BE HARD WIRED TO JUNCTION BOX AT THE INDERSIDE OF THE ROOF DECK BY G.C.
3. PARTS POD POWER POLE WITH ONE DUPLEX OUTLET PRE-WIRED ON POLE TO BE HARD WIRED TO JUNCTION BOX AT THE UNDERSIDE OF THE ROOF DECKBY THE G.C.
4. TEST STATION POWER POLE WITH ONE SIMPLEX OUTLET AND ONE DUPLEX OUTLET PRE-WIRED ON POLE TO BE HARD WIRED TO JUNCTION BOX AT THE UNDERSIDE OF THE ROOF DECK BY G.C. ATTACH TOP OF POWER POLE TO ROOF DECK AND STRAP POLE TO THE FACE OF THE FIXTURE UPRIGHT. BOTTOM OF POLE SHOULD BE A MINIMUM OF 30" ABOVE FLOOR AND OUTLETS SHOULD FACE THE TEST STATION.
5. TWO 2" DIA. PVC PIPES TO BE LOCATED ADJACENT TO POWER POLE #1. LABEL ONE FOR "DATA" AND THE OTHER FOR "SECURITY" POLES TO BE RUN FROM THE BOTTOM CHORD OF ROOF JOIST TO 4" ABOVE THE FLOOR. SUPPORT PIPE WITH CLIP ANGLES AT THE FLOOR AND ANCHOR TO STRUCTURE AT THE TOP.
6. COMMERCIAL COUNTER POWER POLE WITH TWO DUPLEX OUTLETS PRE-WIRED ON POLE TO BE HARD WIRED TO JUNCTION BOX AT THE UNDERSIDE OF THE ROOF DECK BY G.C.
7. FOR HUB & MEGAHUB STORES - 2" x 2" TWO CHANNEL POWER POLE.

NOTE: ALL POWER POLES TO BE FURNISHED BY GENERAL CONTRACTOR

EPP02.1xx

1. GENERAL CONTRACTOR TO FURNISH ALL POWER POLES. POWER POLES ARE AVAILABLE AT GRAYBAR ELECTRIC 314-573-2080, EMAIL: AUTOZONE@GRAYBAR.COM THIS INFORMATION IS ONE SOURCE, COTRACTOR IS FREE TO SOURCE POWER POLES FROM ANY SOURCE OF THEIR CHOOSING.
2. GENERAL CONTRACTOR TO HARD WIRE ALL POWER POLES TO JUNCTION BOXES LOCATED AT THE UNDERSIDE OF THE ROOF DECK. SEE PLAN VIEW THIS SHEET FOR DIMENSIONAL LOCATIONS.
3. POSITION NON-POD POWER POLES AFTER FIXTURES ARE IN PLACE, ANCHOR ALL POLES PER MANUFACTURER'S INSTRUCTIONS. MAKE FINAL CONNECTIONS THROUGH FLEX CONDUIT TO JUNCTION BOXES AT ROOF DECK.
4. AT THE BOTTOM OF THE OFFICE POWER POLE MAKE 1" FLEX CONNECTIONS TO JUNCTION BOXES AND FROM THE JUNCTION BOX MAKE CONNECTIONS USING 3/8" FLEX TO EACH OF THE DEVICES.

EPN01xx

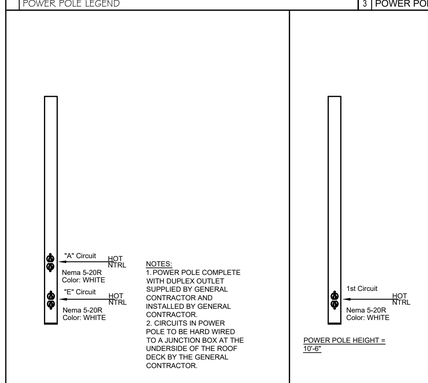
A. LABEL ALL CIRCUITS ON J-BOXES AND ALL OUTLETS WITH MULTIPLE CIRCUITS.
B. ALL WIRING ON FLOOR UNDER COUNTERS SHALL BE IN 3/8" FLEXIBLE CONDUIT.
C. RUN ALL CONDUIT AND CABLES UNDER AND NOT THROUGH SHELF SUPPORTS.
D. DO NOT PERMANENTLY ATTACH OUTLET BOXES OR FLEX CONDUIT TO FLOOR.
E. MOUNT OUTLETS IN KICKPLATES AFTER OWNER'S FIXTURES HAVE BEEN INSTALLED.
F. INSTALL JUNCTION BOXES AT LOCATIONS SHOWN FOR POWER.
G. AUTOZONE'S CONTRACTOR WILL INSTALL CAT. 5 CABLE FOR DATA AND PHONE LINES IN CONDUIT TO BE INSTALLED UNDER THIS CONTRACT.
H. ALL CIRCUITS OVER 100 FEET IN LENGTH SHALL BE RUN WITH #10 AWG.
I. PROVIDE 2 PULL WIRES IN ALL EMPTY CONDUITS.
J. LOCATE ALL POWER POLES AFTER FIXTURES ARE IN PLACE.
K. CONNECT OWNER FURNISHED PREWIRED FLEXIBLE QUICK CONNECTORS, SEE ADDITIONAL NOTES THIS SHEET.

WIRE-POWER-NOTES

SIMPLEX OUTLET
DUPLEX OUTLET
QUADRAPLEX OUTLET
JUNCTION BOX

POWER-LEGEND

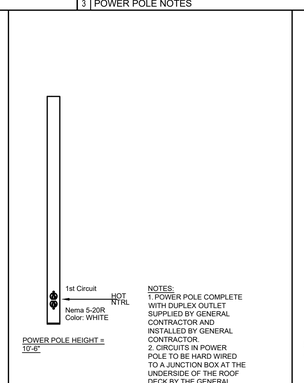
POWER POLE LEGEND	3 POWER POLE NOTES	4 GENERAL WIRING AND POWER NOTES	5 POWER LEGEND



NOTES:
1. POWER POLE COMPLETE WITH DUPLEX OUTLET SUPPLIED BY GENERAL CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR.
2. CIRCUITS IN POWER POLE TO BE HARD WIRED TO A JUNCTION BOX AT THE UNDERSIDE OF THE ROOF DECK BY THE GENERAL CONTRACTOR.

1/8" = 1'-0" EPP06.1

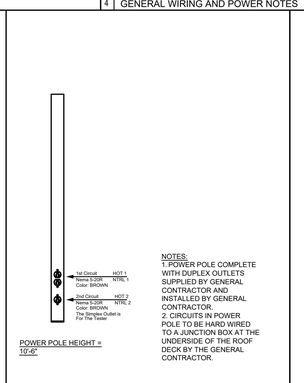
3 PARTS POD POWER POLE #2



NOTES:
1. POWER POLE COMPLETE WITH DUPLEX OUTLET SUPPLIED BY GENERAL CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR.
2. CIRCUITS IN POWER POLE TO BE HARD WIRED TO A JUNCTION BOX AT THE UNDERSIDE OF THE ROOF DECK BY THE GENERAL CONTRACTOR.

1/8" = 1'-0" EPP01.1

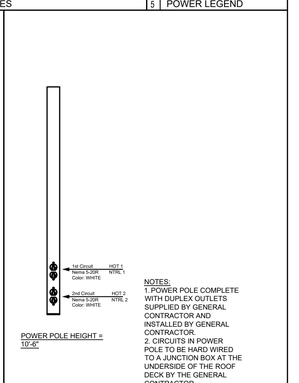
7 PARTS POD POWER POLE #3



NOTES:
1. POWER POLE COMPLETE WITH DUPLEX OUTLETS SUPPLIED BY GENERAL CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR.
2. CIRCUITS IN POWER POLE TO BE HARD WIRED TO A JUNCTION BOX AT THE UNDERSIDE OF THE ROOF DECK BY THE GENERAL CONTRACTOR.

1/8" = 1'-0" EPP03.1

8 TESTER POWER POLE #4



NOTES:
1. POWER POLE COMPLETE WITH DUPLEX OUTLETS SUPPLIED BY GENERAL CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR.
2. CIRCUITS IN POWER POLE TO BE HARD WIRED TO A JUNCTION BOX AT THE UNDERSIDE OF THE ROOF DECK BY THE GENERAL CONTRACTOR.

1/8" = 1'-0" EPP02.1

5 COMMERCIAL COUNTER POWER POLE #6

BRIAN C. OLLIGES

REVISIONS			
1	2	3	
4	5	6	

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Development & Permitting Services
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AutoZone Store No. 10668
4423 SOUTH MERIDIAN
PUYALLUP WA 98373

ELECTRICAL DETAILS

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WWW.HENDERSONENGINEERS.COM
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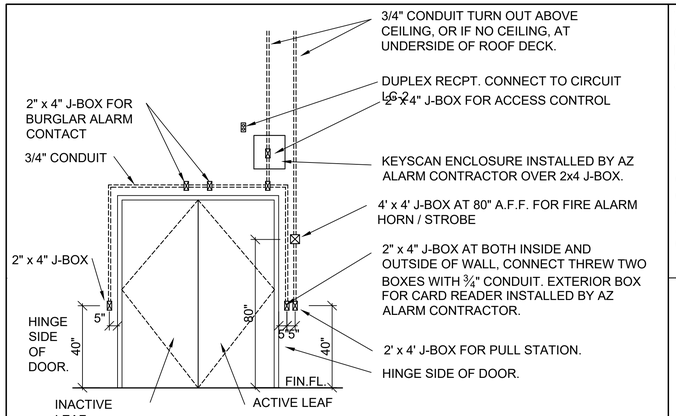
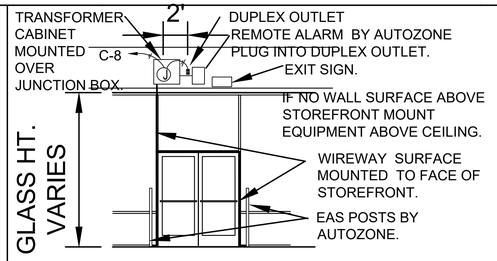
65W2-REMODEL

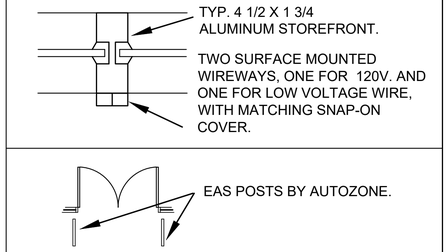
E-2.0



N.T.S. ALARM-SWING

1 ALARM-RECEIVING/EXIT DOOR-PR. 3'-0"x8'-0" H.M.DOORS





NOTES:

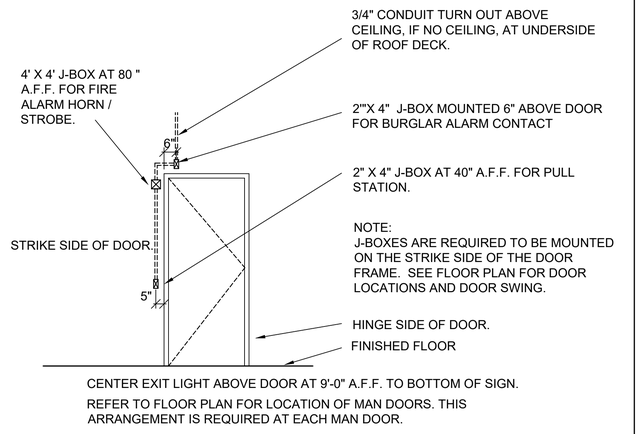
1. AUTOZONE'S EQUIPMENT INSTALLER WILL FURNISH & INSTALL ALL REQUIRED SECURITY ALARM EQUIPMENT INCLUDING FLOOR POSTS, TRANSFORMER CABINET AND REMOTE ALARM SOUNDER AND COUNTER ABOVE THE DOOR.

2. GENERAL CONTRACTOR TO INSTALL JUNCTION BOX EITHER ON WALL ABOVE STOREFRONT, OR IF NO WALL SURFACE AVAILABLE THEN ABOVE CEILING ALONG WITH DUAL WIREWAY ON THE SURFACE OF THE STOREFRONT IN ROUTING AS INDICATED TO CONNECT FLOOR-MOUNTED EAS POSTS BOTH TO THE JUNCTION BOX ABOVE AND TO EACH OTHER.

3. GENERAL CONTRACTOR TO RUN 120 VOLT POWER FROM THE JUNCTION BOX ABOVE DOWN TO ONE OF THE PEDESTALS. LEAVE SNAP-ON COVER OFF THE RACEWAY SO THAT AUTOZONE'S EQUIPMENT VENDOR CAN INSTALL BOTH THE CROSSOVER CONNECTION TO THE OTHER PEDESTAL AND LOW VOLTAGE WIRING FOR THE SYSTEM.

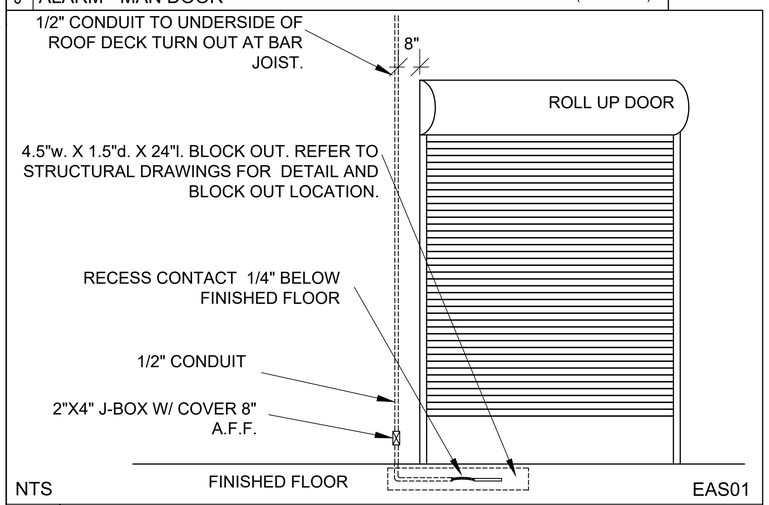
N.T.S. EAS-PAIR

2 ELECTRONIC SECURITY DETAIL



N.T.S. ALARM-MAN

3 ALARM - MAN DOOR (interior view)



4 ALARM - ROLLUP DOOR

ROBERT W. HARRIS

REVISIONS

1	2	3
4	5	6

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

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Engineering	Public Works
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AutoZone Store No. 10668
4423 SOUTH MERIDAN
PUYALLUP WA 98373

DOOR ALARM AND EAS DETAILS

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65W2-REMODEL

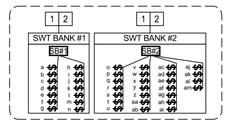
E-2.1

ELECTRICAL LIGHTING GENERAL NOTES

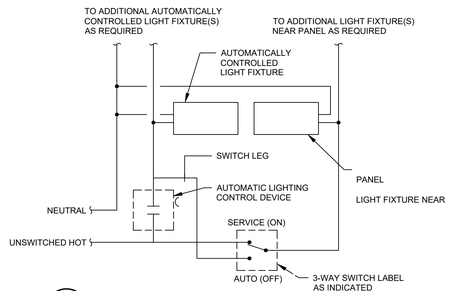
1. THE EMERGENCY LIGHTING SYSTEM HAS BEEN DESIGNED TO PROVIDE AN INITIAL FLOOR ILLUMINANCE LEVEL OF 1FC AVERAGE, 0.1FC MINIMUM AND NO MORE THAN A 40:1 MAX/MIN RATIO ALONG THE EMERGENCY EGRESS PATHS. WHERE APPLICABLE, ADJUST THE AIMING OF EMERGENCY LIGHTS AS REQUIRED TO PROVIDE PROPER ILLUMINATION AT FLOOR AVOIDING OBSTACLES AND SHADOWS AFTER STORE SET-UP IS COMPLETE.
2. PROVIDE LABEL AT EACH MANUAL LIGHT SWITCH INDICATING THE LIGHT FIXTURE(S) THAT THE SWITCH CONTROLS AND THE RESPECTIVE "PNLBD CKT#" DESCRIPTION. A SINGLE LIGHT SWITCH FOR A SMALL ROOM DOES NOT NEED TO INDICATED THE SPACE CONTROLLED SINCE IT IS INTUITIVELY OBVIOUS. COORDINATE LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
3. ALL REMOTELY LOCATED LIGHT FIXTURE POWER SUPPLIES SHALL BE LOCATED IN AN ACCESSIBLE LOCATION WITH PROPER VENTILATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONCEAL DEVICES AND RELATED WIRING FROM CUSTOMER/PUBLIC VIEW. PROVIDE ENCLOSURE IF REQUIRED. COORDINATE LOCATION AND ENCLOSURE TYPE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LIGHT FIXTURE LOCATIONS, MOUNTING HEIGHT, TRACK LENGTHS AND ADDITIONAL MOUNTING INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT COORDINATION AND CONFLICT ISSUES ARE RESOLVED PRIOR TO INSTALLATION OF LIGHT FIXTURES. CONTACT ARCHITECT/ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES.
5. THROUGH WIRING OF RECESSED LIGHT FIXTURES, IN SUSPENDED CEILINGS IS NOT PERMITTED. CONNECT EACH LIGHT FIXTURE BY A WHIP TO JUNCTION BOX. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTHS TO ALLOW FOR RELOCATION OF EACH LIGHT FIXTURE WITHIN 5'-0" RADIUS OF ITS INDICATED LOCATION. CABLE WHIPS SHALL NOT EXCEED 6'-0" OF UNSUPPORTED LENGTHS.
6. ALL EMERGENCY LIGHTS AND EXIT SIGNS WITH INTEGRAL BATTERY BACK-UP SHALL BE CONNECTED TO A SEPARATE UNSWITCHED CONDUCTOR BYPASSING ALL OTHER CONTROLS AND CONTACTORS, UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL NOT BE SWITCHED. REFER TO MANUFACTURER;S WRITTEN INSTRUCTIONS FOR PROPER INSTALLATION AND TESTING. ALLOW BATTERY TO CHARGE FOR A MINIMUM OF 48 HOURS BEFORE LIGHT LEVEL TESTING. IN ORDER PREVENT BATTERY DAMAGE, DO NOT TURN OFF POWER FOR EXTENDED PERIODS OF TIME AFTER EMERGENCY LIGHTING HAS BEEN POWERED.
7. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL MOUNTED LINE VOLTAGE LIGHT SWITCHES, UNLESS NOTED OTHERWISE. IF NEUTRAL TERMINATION IS NOT REQUIRED FOR THE DEVICE THEN CAP CONDUCTOR AND TAG AS "NEUTRAL FOR FUTURE USE".
8. COORDINATE ALL OCCUPANCY/VACANCY SENSOR SETTINGS WITH OWNER AND ADJUST AS NECESSARY FOR PROPER OPERATION. SETTINGS MUST COMPLY WITH AHJ AND LOCAL ENERGY CODE REQUIREMENTS.
9. DO NOT INSTALL OCCUPANCY/VACANCY SENSORS WITHIN 48" OF AIR DIFFUSER OR SIMILAR OBSTRUCTIONS THAT MAY ADVERSLY AFFECT THE SENSOR PERFORMANCE. COORDINATE FINAL SENSOR LOCATIONS WITH OTHER TRADES AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
10. SALES FLOOR EXEMPT FROM DAYLIGHT ZONE REQUIREMENT PER EXCEPTION 7 TO SECTION 130.1(d).

ELECTRICAL LIGHTING PLAN NOTES

1. LINE VOLTAGE SWITCHES FOR LOCAL LIGHTING ZONE AS SPECIFIED ON PLAN.
2. PROVIDE SINGLE GANG JUNCTION BOX FOR EACH SWITCH LEG. MULTI-GANG SWITCHES ARE NOT ALLOWED. LABEL EACH SWITCH INDIVIDUALLY WITH LIGHTING ZONE CONTROLLED.
3. PHOTOCELL SENSOR WIRED TO LIGHTING CONTACTOR PANEL AND VENSTAR SURVEYOR SYSTEM. INSTALLED ON ROOFTOP, SEE DETAIL 1, SHEET E-5.0 FOR ADDITIONAL INFORMATION.
4. VENSTAR SURVEYOR NETWORK OVERRIDE SWITCH. VERIFY FINAL LOCATION WITH OWNER AND ARCHITECT.
5. PROVIDE SWITCH BANK FOR FRONT OF HOUSE AND BACK OF HOUSE CONTROLS. REFER TO DETAIL 2, THIS SHEET FOR ADDITIONAL INFORMATION.
6. PROVIDE 3-WAY SWITCH FOR OVERRIDE OF AUTOMATIC LIGHTING CONTROLS NEAR PANELBOARD RE NEC 110.26 (D). PROVIDE ENGRAVED LABEL ON COVERPLATE STATING "PANELBOARD MAINTENANCE". REFER TO DETAIL 3, THIS SHEET.



2 DIMMER SWITCHBANK DETAIL
SCALE: N.T.S.



3 PANELBOARD MAINTENANCE SWITCH
SCALE: N.T.S.

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

REVISIONS			
1	2	3	4
			5
			6

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PUYALLUP WA 98373

LIGHTING FLOOR PLAN

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65W2-REMODEL

E-3.0

ROBERT W. HARRIS

LIGHTING CONTROL DEVICE SCHEDULE

LINE-VOLTAGE DIMMING WALL SWITCH

SYMBOL TAG	DEVICE DESCRIPTION	VOLTAGE	NOTES
$	20-AMP SINGLE-POLE PADDLE SWITCH FOR ON/OFF CONTROL, UL OR EQUIVALENT NRTL LISTED.	120/ 277	1
$D	0-10V SLIDE DIMMER SWITCH FOR LED OR FLUORESCENT BALLASTS, COMPATIBLE WITH CLASS 1 OR CLASS 2 WIRING. SUPPORTS UP TO 600VA AT 120VAC SINGLE POLE OR 3-WAY CONTROL. UL OR EQUIVALENT NRTL LISTED.	120 /277	1

AUXILIARY EQUIPMENT

SYMBOL TAG	DEVICE DESCRIPTION	VOLTAGE	NOTES
DS	EXTERIOR MOUNTED PHOTOSENSOR WITH IP66 WATERTIGHT RATING, RATED FOR LOW AND HIGH TEMPERATURES. CAPABLE OF INTERFACING WITH VENSTAR BMS SYSTEM. UL OR EQUIVALENT NRTL LISTED.	120	1
$MS	NETWORKED LIGHT SWITCH WITH 2-HOUR OVERRIDE CAPABILITY, COMPATIBLE WITH CENTRALIZED LIGHTING CONTROL SYSTEMS AND VENNSTAR BMS. ALLOWS FOR A MAXIMUM OF 2-HOUR GENERAL LIGHTING OVERRIDE OUTSIDE STANDARD BUSINESS HOURS. UL OR EQUIVALENT NRTL LISTED.	120 /277	1

GENERAL NOTES:

A. OCCUPANCY SENSOR LAYOUT DESIGNED FROM BASIS-OF-DESIGN COVERAGE PATTERNS. IF SUBMITTING ALTERNATE PER 'EQUIVALENT MANUFACTURER' COLUMN, ADJUST SENSOR QUANTITIES AND LOCATIONS PER MANUFACTURER-SPECIFIC SPACING CRITERIA.
B. PROVIDE SHOP DRAWINGS FOR ENGINEER AND ARCHITECT REVIEW THAT INCLUDE PRODUCT CUTSHEETS AND PROJECT-SPECIFIC LAYOUTS. LAYOUTS MUST INCLUDE SENSOR LOCATIONS, HEIGHTS, ORIENTATION, AND COVERAGE AREAS. SHOW COORDINATION WITH ALL OTHER CEILING DEVICES INCLUDING BUT NOT LIMITED TO HVAC SUPPLY AND RETURN GRILLES, SPRINKLERS, LIGHT FIXTURES, AND OTHER OWNER-PROVIDED CEILING MOUNTED DEVICES SUCH AS SPEAKERS, SECURITY CAMERAS, PROJECTORS, ETC. (SENSORS MAY BE ADVERSELY AFFECTED IF LOCATED TOO CLOSE TO OTHER CEILING MOUNTED DEVICES). ALSO PROVIDE SCHEMATICS AND SCHEDULES WHEN APPLICABLE.
C. LIGHTING CONTROLS PRICING SHALL BE COMPLETELY SEPARATE OF ANY LIGHT FIXTURE PRICING.
D. VERIFY COLOR(S) FOR ALL WALL AND CEILING MOUNTED DEVICES WITH THE ARCHITECT.
E. ALL WALL SWITCH AND CEILING SENSORS SHALL HAVE AN ADJUSTABLE TIME DELAY RANGE OF 0-30 MIN, UNO. CONFIRM SENSOR SETTINGS WITH SEQUENCE OF OPERATIONS AND OWNER PRIOR TO SYSTEM COMMISSIONING.
F. PROVIDE COPIES OF OPERATION AND MAINTENANCE INSTRUCTIONS FOR ALL DEVICES TO OWNER.
G. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL SWITCH LOCATIONS PER NEC REQUIREMENTS.
H. DO NOT SHARE NEUTRAL CONDUCTOR ON LOAD SIDE OF DIMMERS.

NOTES:

1. AUTOZONE SHALL FURNISH ALL DEVICES AND TO ENSURE THAT MINIMUM CODE REQUIREMENTS ARE MET. REFER TO AUTOZONE FOR EXACT MANUFACTURER AND MODEL.

VERSION #31

SYMBOL	DESCRIPTION	SUPPLIED	LAMPS	MOUNTING
A	8' LED STRIP 48 WATTS INPUT	AUTOZONE	4 - 12 WATT T8 - 4' LED TUBE - DIMMABLE	SEE PLAN FOR LOCATIONS
B	8' LED STRIP 24 WATTS INPUT	AUTOZONE	2 - 12 WATT T8 - 4' LED TUBE - DIMMABLE	SEE PLAN FOR LOCATIONS
C	4' LED STRIP 10.5 WATTS INPUT WALL LIGHT	AUTOZONE	1 - 10.5 WATT T-8 - 4' LED TUBE	SURFACE MOUNTED @ 6'-8" ABOVE FINISHED FLOOR CENTER ON WALL
D	D-Series Size 1 Luminaire DSXW1 LED 10C 1000 40K T3M MVOLT	AUTOZONE	40 WATT	MOUNT TOP OF FIXTURE AT THE SAME ELEVATION AS TOP OF THE STOREFRONT
E	EMERGENCY LIGHT WITH BATTERY BACKUP	AUTOZONE	INCLUDED WITH FIXTURE	MOUNTED TO BOTTOM OF BAR JOIST OR UNISTRUT
F	EXIT SIGN WITH BATTERY BACKUP FOR REMOTE EXIT EMERGENCY HEAD	AUTOZONE	INCLUDED WITH FIXTURE	SEE PLAN FOR LOCATIONS AND MOUNTING INFORMATION
G	GOTHAM 8" LED DOWN LIGHT EVO R 35/20 8AR 120 TRW	AUTOZONE	49 WATT	MOUNTED IN SOFFIT SEE PLAN FOR LOCATIONS
J	EXTERIOR EMERGENCY LIGHT WITH TWO HEADS	AUTOZONE	INCLUDED WITH FIXTURE	REMOTE HEAD MOUNTED OUTSIDE ABOVE DOOR WIRE TO EXIT LIGHT FIXTURE
K	EXIT SIGN WITH BATTERY BACKUP	AUTOZONE	INCLUDED WITH FIXTURE	MOUNTED TO BOTTOM OF BAR JOIST OR UNISTRUT
L	D-Series Size 1 Luminaire DSXW1 LED 10C 530 40K T3M MVOLT	AUTOZONE	20 WATT	MOUNT TOP OF FIXTURE AT THE SAME ELEVATION AS TOP OF THE STOREFRONT
M	4' LED STRIP 24 WATTS INPUT	AUTOZONE	2 - 12 WATT T8 - 4' LED TUBE - DIMMABLE	SEE PLAN FOR LOCATIONS
N	4' LED STRIP 12 WATTS INPUT	AUTOZONE	1 - 12 WATT T8 - 4' LED TUBE - DIMMABLE	SEE PLAN FOR LOCATIONS
M	MOTION SENSOR FOR ALC PANEL	AUTOZONE	— — — — —	J-BOX HORIZONTAL BOTTOM OF JOIST OR UNISTRUT
M1	OCCUPANCY SENSOR-CMR-9	AUTOZONE	— — — — —	RESTROOM CEILING - CONNECT TO FAN & LIGHT
P	PHOTOCELL SENSOR-CMRB-ADC	AUTOZONE	— — — — —	J-BOX HORIZONTAL BOTTOM OF JOIST OR UNISTRUT
P	8' LED STRIP 72 WATTS INPUT	AUTOZONE	4 - 18 WATT T8 - 4' LED TUBE - DIMMABLE	SEE PLAN FOR LOCATIONS
SITE LIGHT	D-Series Size 1 Luminaire DSX1 LED 60C 1000 40K T3M MVOLT	AUTOZONE	209 WATT	SEE CIVIL SHEETS FOR POLE AND FIXTURE LOCATIONS
M2	MOTION SENSOR-10 MINUTE ON LSXR-50-HL	AUTOZONE	— — — — —	J-BOX HORIZONTAL MOUNT TO SIDE OF LIGHT FIXTURE INSTALL AISLEWAY LENS #50

LIGHT FIXTURE SCHEDULE NOTES:

1. NOT EVERY SYMBOL WILL BE UTILIZED ON EACH PROJECT SEE FLOOR PLAN ON THIS SHEET FOR THE ITEMS THAT APPLY TO THIS SPECIFIC PROJECT.
2. AUTOZONE WILL FURNISHED LED STRIP FIXTURES, MOTION SENSORS AND LINE VOLTAGE DIMMER WALL SWITCHES SHOWN IN SCHEDULE ABOVE AND / OR CALLED FOR ON THE PLAN. SEE MOUNTING DETAILS THIS SHEET.
3. MOTION SENSOR M2 WILL BE USED IN HUB AND MEGA HUB STORES ONLY.

1/8" = 1'-0

4 LIGHT FIXTURE SCHEDULE

LIGHTING CONTROL SEQUENCE OF OPERATIONS

GENERAL NOTES

1. CONTRACTOR TO COMMISSION SYSTEM USING VENSTAR SURVEYOR FOR ALL AREAS BASED ON ZONING SHOWN IN LIGHTING PLANS. PROVIDE BUDGET AND SCHEDULE FOR TWO DAYS OF COMMISSIONING ASSISTANCE AND LIGHTING LEVEL WALK-THROUGH FOR FINAL CHECK OF SYSTEM SET UP BY VENSTAR COMPANY REPRESENTATIVE ONCE SYSTEM IS IN INSTALLED AND COMMISSIONED.
2. CONFIRM ALL TIMECLOCK SCHEDULES, SCENE LEVELS, SWITCH ENGRAVING LABELS, AND SENSOR TIME DELAYS WITH OWNER PRIOR TO ORDERING LIGHTING CONTROL PRODUCTS AND FINAL PROGRAMMING.
   - 2.1. OCCUPIED HOURS: MON-SAT 6:00 AM - 9:00 PM, SUN 8:00 AM - 7:00 PM
   - 2.2. BUSINESS HOURS: MON-SAT 8:00 AM - 7:00 PM, SUN 10:00 AM - 5:00 PM
   - 2.3. OVERRIDE LIMIT: 2 HOURS.
3. OVERRIDE OPERATION: GENERAL LIGHTS SHALL ONLY REMAIN ON FOR THE DURATION OF THE OVERRIDE LIMIT, AFTER WHICH ALL ZONES SHALL TURN OFF. SUBSEQUENT OPERATION OF ASSOCIATED MANUAL CONTROL SHALL RESTART THE OVERRIDE LIMIT, EVEN IF DURING A CURRENT OVERRIDE OPERATION.

GENERAL REQUIREMENTS

1. EMERGENCY LIGHTING: EMERGENCY EGRESS LIGHTING IS POWERED BY DEDICATED EMERGENCY LIGHT FIXTURES WITH INTEGRAL AND REMOTELY LOCATED BATTERY BALLASTS. UPON LOSS OF POWER, ALL LIGHTS DESIGNATED AS EMERGENCY SHALL TURN ON AT EMERGENCY BATTERY BACK-UP AT MAXIMUM AVAILABLE OUTPUT.
   - 1.1. SUPPLEMENTARY TO BATTERY-POWERED EMERGENCY LIGHTING, A NON-EMERGENCY STANDBY GENERATOR SHALL AUTOMATICALLY START UPON LOSS OF UTILITY POWER. THE GENERATOR SHALL SUPPLY POWER TO DESIGNATED NON-EMERGENCY SUPPLEMENTAL LIGHT FIXTURES TO ENHANCE OVERALL EGRESS VISIBILITY.

MAIN RETAIL SALES AREA

1. TIMECLOCK: SPACE IS NETWORKED TO A CENTRAL TIMECLOCK, VIA VENSTAR SURVEYOR LIGHTING CONTROL SYSTEM PROCESSOR AND NETWORKED CONTROLLER.
2. MANUAL CONTROL: AUTHORIZED PERSONNEL CAN ADJUST LIGHTING LEVELS AND LIGHT FIXTURE CONFIGURATION DIMMER SWITCHBANK TO ADJUST DIMMING LEVEL OF FIXTURES.
3. OCCUPANCY:
   - 3.1. DURING OCCUPIED HOURS, ALL ZONES SHALL TURN ON AUTOMATICALLY VIA TIMER. AUTHORIZED PERSONNEL CAN THEN MANUALLY OPERATE LOCAL DIMMER SWITCHBANK TO ADJUST DIMMING LEVEL OF FIXTURES, IF APPLICABLE.
   - 3.2. DURING UNOCCUPIED HOURS, GENERAL LIGHTING ZONES SHALL TURN ON TO FULL UPON SENSING AN OCCUPANT; ALL OTHER ZONES SHALL REMAIN OFF.
4. VACANCY:
   - 4.1. DURING OCCUPIED HOURS, CONTROLLED LOADS SHALL REMAIN ON.
   - 4.2. DURING UNOCCUPIED HOURS, AFTER 20 MINUTES ALL CONTROLLED LOADS SHALL TURN OFF UPON SENSING NO ACTIVITY.

BOH INVENTORY

1. TIMECLOCK: SPACE IS NETWORKED TO A CENTRAL TIMECLOCK, VIA VENSTAR SURVEYOR LIGHTING CONTROL SYSTEM PROCESSOR AND NETWORKED CONTROLLER.
2. MANUAL CONTROL: OCCUPANT CAN MANUALLY CONTROL LIGHTS VIA LOCAL SWITCH(ES).
3. OCCUPANCY: AREA/GENERAL LIGHTING SHALL AUTOMATICALLY TURN ON TO NOT MORE THAN 50% UPON SENSING AN OCCUPANT, AND TASK LIGHTING SHALL TURN ON TO FULL. OCCUPANT CAN THEN MANUALLY OPERATE LOCAL SCENE OR DIMMER SWITCH(ES) TO ADJUST DIMMING LEVEL OF FIXTURES, IF APPLICABLE.
4. VACANCY: AT ALL TIMES, AFTER 20 MINUTES ALL CONTROLLED LOADS SHALL TURN OFF UPON SENSING NO ACTIVITY.

RESTROOMS

1. OCCUPANCY: ALL CONTROLLED LOADS SHALL AUTOMATICALLY TURN ON AS A RESULT OF SENSING OCCUPANTS.
2. VACANCY: AFTER 20 MINUTES, ALL CONTROLLED LOADS SHALL TURN OFF UPON SENSING NO ACTIVITY.

EXTERIOR SIGNAGE

3. TIMECLOCK: SPACE IS NETWORKED TO A CENTRAL TIMECLOCK, VIA VENSTAR SURVEYOR LIGHTING CONTROL SYSTEM PROCESSOR AND NETWORKED CONTROLLER.

EXTERIOR BUILDING MOUNTED LIGHTING

1. TIMECLOCK: SPACE IS NETWORKED TO A CENTRAL TIMECLOCK, VIA VENSTAR SURVEYOR LIGHTING CONTROL SYSTEM PROCESSOR AND NETWORKED CONTROLLER.
2. OCCUPANCY: ALL ZONES SHALL TURN ON AUTOMATICALLY VIA TIMER DURING OCCUPIED HOURS. AUTHORIZED PERSONNEL CAN THEN MANUALLY OPERATE LOCAL DIMMER SWITCHBANK TO ADJUST DIMMING LEVEL OF FIXTURES, IF APPLICABLE. EXTERIOR PHOTOSENSOR SHALL OVERRIDE TIME SCHEDULING FUNCTION DURING DAYTIME IF NATURAL OUTDOOR LIGHTING CONDITIONS HAVE BEEN ADVERSELY AFFECTED BY INCLEMENT WEATHER.
3. VACANCY: EXTERIOR LIGHTING CONTROLLED LOADS SHALL TURN OFF DURING UNOCCUPIED HOURS. CONFIRM FINAL OPERATING HOURS OF EXTERIOR LIGHT FIXTURES WITH OWNER.

ALL OTHER SPACES

1. MANUAL CONTROL: ON/OFF WITH ABILITY TO RAISE/LOWER DIMMING.
2. OCCUPANCY: LIGHTS SHALL TURN ON MANUALLY UNLESS NOTED OTHERWISE. OCCUPANT CAN THEN MANUALLY OPERATE LOCAL SCENE OR DIMMER SWITCH(ES) TO ADJUST DIMMING LEVEL OF FIXTURES, IF APPLICABLE.
3. VACANCY: AFTER 20 MINUTES, ALL CONTROLLED LOADS SHALL TURN OFF UPON SENSING NO ACTIVITY.

A. ALL DIMENSIONS ARE FROM FACE OF EITHER CMU OR FINISHED WALL AND TO THE EDGE, CENTER OR ENDS OF LIGHT FIXTURES.
B. INSTALL MOTION SENSOR ON BATHROOM CEILING TO CONTROL LIGHT / FAN.
C. RUN ALL CONDUIT IN STRICT CONFORMANCE WITH CURRENT VERSION OF THE NATIONAL ELECTRIC CODE APPLICABLE TO THE PROJECT. CONDUIT SHALL BE INSTALLED EITHER PARALLEL OR PERPENDICULAR TO DECK RIBS. USE FLEX CONDUIT FROM J-BOX TO TO LIGHT FIXTURE.
D. INSTALL 8'-0" LONG LED FIXTURES EITHER TO THE BOTTOM OF ROOF STRUCTURE MEMBERS, UNISTRUT, OR SUSPENDED CEILING GRID AS SHOWN AND CALLED FOR ON THE DRAWINGS.
E. EXIT AND EMERGENCY LIGHTS SHALL BE MOUNTED ON WALLS, ATTACHED TO UNISTRUT OR THE CEILING GRID AS INDICATED.
F. FRONT DOOR EXIT SIGN: SURFACE MOUNT ON WALL 9'-0" A.F.F. TO BOTTOM OF FIXTURE MAN DOOR EXIT SIGN: SURFACE MOUNT ON WALL 9'-0" A.F.F. TO BOTTOM OF FIXTURE.
G. ALL NON-SWITCHED LIGHTING CIRCUITS TO BE CONTROLLED BY AUTOMATIC LIGHTING CONTROL PANEL. SEE LIGHTING CONTROL DIAGRAM FOR DETAILS AND REQUIREMENTS.
H. NO INTERIOR LIGHTING BRANCH CIRCUIT SHALL BE INSTALLED IN A MULTIWIRE BRANCH CIRCUIT. NEUTRAL CONDUCTORS SHALL NOT BE SHARED BETWEEN DIFFERENT CIRCUITS.

1 LED LIGHTING NOTES

1. ALL WALL SIGNS SHALL BE INSTALLED BY AUTOZONE'S SIGN VENDOR WHO WILL PUSH SIGN WIRING THROUGH WALL ASSEMBLY. CONNECTIONS OF SIGN WIRING TO HOME RUN CIRCUITRY WILL BE BY GENERAL CONTRACTOR.
2. FOR ALL REMOTE CHANNEL LETTER SIGNS AUTOZONE'S SIGN VENDOR WILL INSTALL AN INTERIOR SURFACE MOUNTED RACEWAY FOR TRANSFORMERS AND WIRE, SO THAT GENERAL CONTRACTOR CAN TIE ALL INDIVIDUAL LETTER WIRING TOGETHER AND THEN CONNECT TO THE HOME RUN CIRCUIT.
3. SIGN VENDOR SHALL BE RESPONSIBLE FOR SEALING ALL OF HIS WIRING PENETRATIONS THROUGH THE EXTERIOR WALLS WITH THE EXCEPTION OF PENETRATIONS THROUGH PARAPET WALLS OR ROOFING. THOSE PENETRATIONS SHALL BE SEALED BY GENERAL CONTRACTOR SO AS NOT TO VOID ANY WARRANTY CONNECTED WITH THE ROOFING INSTALLATION. GENERAL CONTRACTOR SHALL PAINT ALL EXPOSED BOXES, CONDUIT AND RACEWAYS TO MATCH SURROUNDING WALLS SURFACES.

2 SIGNAGE INSTALLATION GENERAL NOTES

REVISIONS

1	2	3	4	5	6

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

AutoZone Store No. 10668
4423 SOUTH MERIDIAN
PUYALLUP WA 98373

LIGHTING SCHEDULES

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
2550003925
WA. CORPORATE NUMBER: 1754
06/30/26

BRIAN OLLIVIER 11/21/2025
STATE OF WASHINGTON
24015980
REGISTERED
PROFESSIONAL ENGINEER

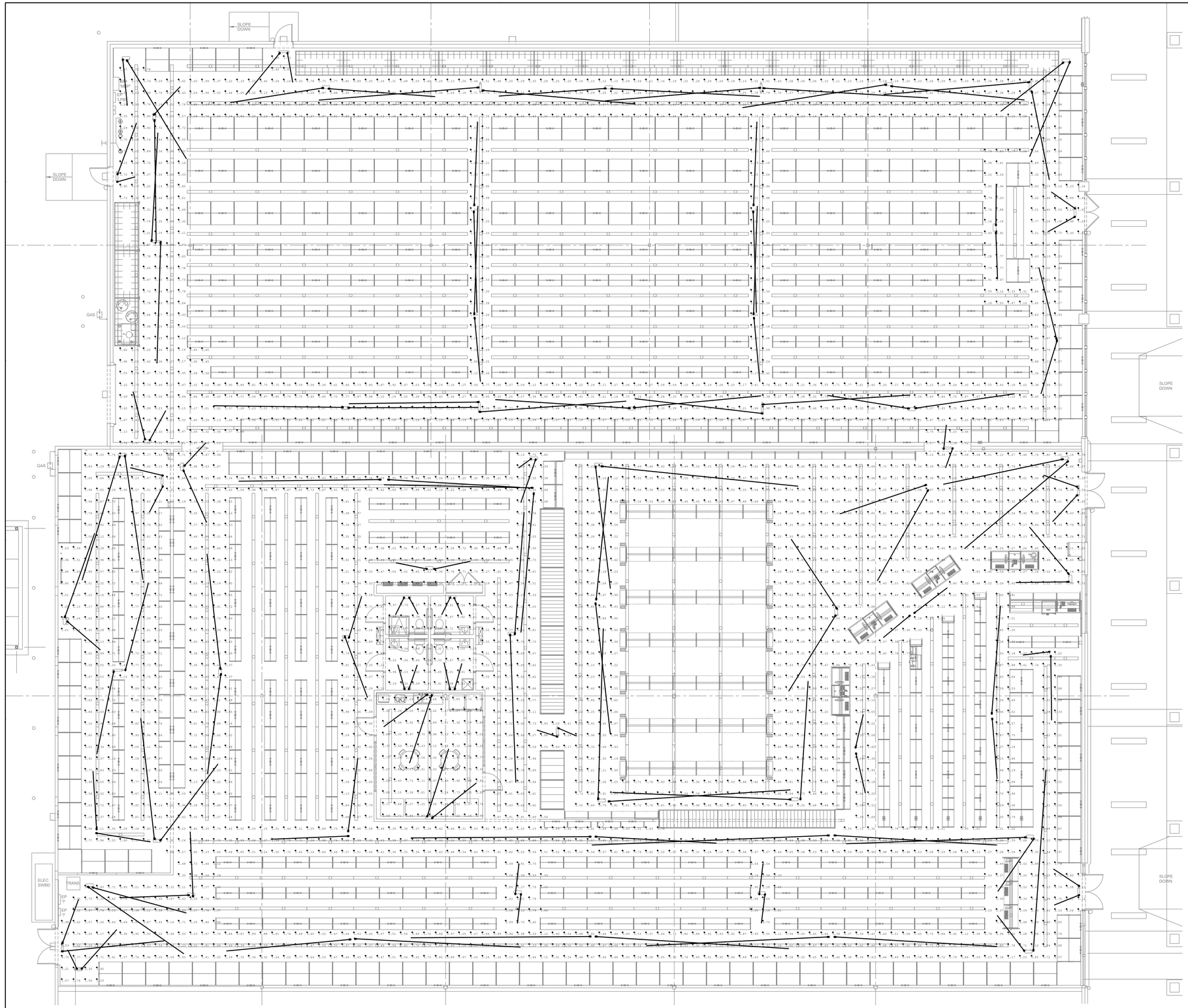
PRCTI20251723

11/21/2025

65W2-REMODEL

E-3.1

ROBERT W. HARRIS



Luminaire Schedule

Symbol	Qty	Label	Arrangement	LLF	Description	Luminaire Lumens
⊕	152	SLM4L	SINGLE	0.800	SLM4L	346

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
SALES FLOOR	Illuminance	FC	4.59	8.13	2.81	1.63	2.89
BREAK ROOM Floor	Illuminance	FC	4.95	8.13	2.81	1.76	2.89
RESTROOM 1 Floor	Illuminance	FC	4.93	8.01	2.57	1.92	3.12
RESTROOM 2 Floor	Illuminance	FC	5.48	8.34	3.97	1.47	2.10
RESTROOM 3 Floor	Illuminance	FC	5.48	8.34	3.69	1.49	2.27
RESTROOM 4 Floor	Illuminance	FC	5.48	8.34	3.69	1.49	2.27

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

ROBERT W. HARRIS

REVISIONS

1	2	3
4	5	6

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

AutoZone Store No. 10668
4423 SOUTH MERIDIAN
PUYALLUP WA 98373

EMERGENCY LIGHTING PHOTOMETRICS

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
2550003925
WA. CORPORATE NUMBER: 1754
06/30/26

BRIAN OLTMAN 11/21/2025
STATE OF WASHINGTON
24015980
REGISTERED PROFESSIONAL ENGINEER

PRCTI20251723

11/21/2025

65W2-REMODEL

E-3.2

UTILITY CONTACT INFORMATION:

COMPANY: PUGET SOUND ENERGY (PSE)

CONTACT: BUILDING AND RENOVATION SERVICE CENTER

PHONE #: 1-(888)-225-5773

MONDAY TO FRIDAY FROM 7:30 AM PST THROUGH 6:30 PM PST

FAULT CURRENT GENERAL NOTE (ESTIMATED VALUE):

THE MAXIMUM AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT VALUE AT THE UTILITY TRANSFORMER SECONDARY/POINT OF SERVICE IS ESTIMATED TO BE **60,000**A BASED ON FAULT CURRENT INFORMATION AVAILABLE BY PSE ELECTRIC SERVICE HANDBOOK. CONTRACTOR SHALL VERIFY ACTUAL AVAILABLE FAULT CURRENT VALUE WITH UTILITY. NOTIFY ENGINEER IF ACTUAL VALUE EXCEEDS ESTIMATED CALCULATED VALUE.

Short-Circuit and Voltage Drop Calculations

Version 2.13

Distances are for calculation purposes only and shall not be used for contractor takeoffs nor bidding - Contractor shall notify Engineer of any field condition that results in a change of 10% or greater circuit distance

The following calculations are based on the "Point-by-Point" method where:

$ISC_{(2)} = ISC_{(1)} \times M_{(1)}$ M= 1/(1+f)

$ISC_{(1)}$ = short circuit current at fault point 1

$ISC_{(2)}$ = short circuit current at fault point 2

Feeder: $f_{(3\varnothing)} = \frac{1.732 \times L \times Isc}{C \times E}$

Feeder: $f_{(1\varnothing)} = \frac{2 \times L \times Isc}{C \times E}$

XFMR: $f_{(3\varnothing)} = \frac{IP(sca) \times Vp \times 1.73 \times \%Z}{100{,}000 \times KVA}$

XFMR: $f_{(1\varnothing)} = \frac{IP(sca) \times Vp \times \%Z}{100{,}000 \times KVA}$

$IS_{(sca)} = \frac{Vp \times M \times IP_{(sca)}}{Vs}$

VOLTAGE DROP (3Ø):

%VD = ((R x cos(arccos(pf)) + X x sin (arccos(pf))) x L/# x I x 1.73) / E

VOLTAGE DROP (1Ø):

%VD = ((R x cos(arccos(pf)) + X x sin(arccos(pf))) x 2 x L/# x I) / E

E = Line to line volts

IP = Primary short circuit current

Vp = Primary voltage

IS= Secondary short circuit current

Vs= Secondary voltage

L = Length of circuit

C = "C" Factor from Bussman table where "C" = 1 / impedance per linear foot

%VD CUM = Cumulative Voltage Drop from Fault Point 1 to Fault Point #

R = resistance in ohms per LF

X= reactances in ohms per LF

Feeder Types: NM - Non Magnetic Conduit, M - Magnetic Conduit, FB - Feeder Busway, PB - Plug-in Busway, TX - Transformer

System Voltage: 480Y/277V - 3 phase

Fault Point (F#)	Bus/Feeder Description	Source (Fault Point)	Phase	Source Isc (amps)	Feeder: Conduit Type/ TX	Feeder: Material	Feeder: Quantity of Parallel Sets and Bus/ Phase & Neutral Size	Conductor 'C' Value	Busway 'C' Value	L-L Voltage (E)	Circuit Length (L)	Load Power Factor (pf)	Circuit Load (Amperage)	Conductor: Resistance (R)	Conductor: Reactance (X)	Conductor: Arccos (pf) (Radians)	Transformer: Type	Degree Rise	kVA	New Xfmr Z	Existing Xfmr Z	Secondary Voltage	Tap Setting	f	M	Fault Current (amps)	Voltage Drop (%VD)	Cumulative Voltage Drop (%VD)	Fault Point (F#)
1	Utility Service Point			26,100																			Source Isc + 6X Motor Contribution =			27,300			1
	Motor Contribution			200 The connected full load motor amps (includes compressors) on the system																									
2	PNLBD H (ETR)	1	3	27,300	M	CU	2 Set(s) of 3/0 AWG	12844	--	480	225	0.9	160	0.000079	0.000052	0.451027								0.863	0.54	14,655	-0.61%	-0.61%	2
3	75kVA XFMR PRIMARY (ETR)	2	3	14,655	M	CU	1 Set(s) of 3 AWG	4774	--	480	15	0.9	72	0.000250	0.000059	0.451027								0.166	0.86	12,567	-0.10%	-0.71%	3
4	75kVA XFMR SECONDARY (ETR)	2	3	14,655	TX					480							DOE	150	75	3.61		208		5.864	0.15	4,927		-0.61%	4
5	PNLBD L (ETR)	4	3	4,927	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	15	0.9	180	0.000063	0.000051	0.451027								0.041	0.96	4,734	-0.18%	-0.79%	5
6	2-WINDING XFMR (NEW)	5	1	4,734	M	CU	1 Set(s) of 6 AWG	2425	--	208	15	0.9	48	0.000490	0.000064	0.451027								0.282	0.78	3,694	-0.32%	-1.11%	6
7	60A2P/60AF FUSED DISC. (NEW)	6	1	3,694	M	CU	1 Set(s) of 6 AWG	2425	--	208	5	0.9	48	0.000490	0.000064	0.451027								0.073	0.93	3,442	-0.11%	-1.22%	7
8	ATS-1 (NEW)	7	1	3,442	M	CU	1 Set(s) of 6 AWG	2425	--	208	45	0.9	48	0.000490	0.000064	0.451027								0.614	0.62	2,132	-0.97%	-2.19%	8
9	PNLBD E (NEW)	8	1	2,132	M	CU	1 Set(s) of 6 AWG	2425	--	208	175	0.9	48	0.000490	0.000064	0.451027								1.480	0.40	860	-3.79%	-5.98%	9

FAULT CURRENT GENERAL NOTE (ESTIMATED VALUE):

THE MAXIMUM AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT VALUE AT THE UTILITY TRANSFORMER SECONDARY/POINT OF SERVICE IS ESTIMATED TO BE **26,100**A BASED ON FAULT CURRENT INFORMATION AVAILABLE BY PSE ELECTRIC SERVICE HANDBOOK. CONTRACTOR SHALL VERIFY ACTUAL AVAILABLE FAULT CURRENT VALUE WITH UTILITY. NOTIFY ENGINEER IF ACTUAL VALUE EXCEEDS ESTIMATED CALCULATED VALUE.

1 ONE-LINE RISER DIAGRAM
SCALE:NTS

FEEDER SCHEDULE:

SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNO. NUMBER DESIGNATIONS PRECEDED BY "A" INDICATE THAT THE SIZE IS BASED ON ALUMINUM (AL) WIRE. AL CONDUCTOR SIZES ARE BASED ON XHHW-2 INSULATION, UNO. ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS, UNO. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

63	60A, (3)#6, (1)#10G, 3/4" C
93	90A, (3)#3, (1)#8G, 1" C
204	200A, (4)#3/0, (1)#6G, 2" C
224	225A, (4)#4/0, (1)#4G, 2-1/2" C
404	400A, (2) 2" C, EACH W/ (4)#3/0, (1)#3G
2004	2000A, (6) 3" C, EACH W/ (4)-400kcmil, (1)-250kcmil G
G6	GND, #6 COPPER GROUND, 3/4" C

ONELINE NOTES:

1. PROVIDE NEW NEMA 3R 2/60A RATED AUTOMATIC TRANSFER SWITCH RATED FOR 120/240V SINGLE PHASE SYSTEM.
2. DO NOT CONNECT GENERATOR AS SEPARATELY DERIVED SYSTEM. CONTRACTOR SHALL CONFIRM THAT THE NEUTRAL IS NOT BONDED TO THE GROUND AT THE GENERATOR.
3. PROVIDE RELAY AND RELATED WIRING TO INTERLOCK EMERGENCY SHUT-OFF SWITCH WITH GENERATOR CONTROL PANEL. COORDINATE REQUIREMENTS WITH EQUIPMENT MANUFACTURER. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO FURNISHING AND INSTALLATION.
4. AUTOMATIC TRANSFER SWITCH, ATS-1, IS PART OF A LEVEL 2 EMERGENCY POWER SUPPLY SYSTEM (EPSS) AS DEFINED BY NFPA 110 AND SHALL TRANSFER WITH A DELAYED AUTOMATIC TRANSFER. THIS ATS SHALL ONLY SERVE NON-ESSENTIAL OPTIONAL STAND-BY LOADS (SUPPLEMENTAL LIGHTING, COMPUTERS, HVAC, REFRIGERATION, ETC.) THIS ATS SERVES LOADS WHERE FAILURE OF THE EQUIPMENT TO PERFORM MAY CAUSE DISCOMFORT, INTERRUPTION OF INDUSTRIAL PROCESSES OR DISRUPTION OF BUSINESS. REFER TO NFPA 70 AND NFPA 110 FOR ADDITIONAL DETAILS.
5. INSTALL FEEDERS CONCEALED AND TIGHT TO STRUCTURE. COORDINATE ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.

MDP ELECTRICAL SERVICE LOAD SUMMARY

SERVICE OCCUPANCY TYPE: Retail
SERVICE SQUARE FOOTAGE: 28,100
SERVICE DESCRIPTION: 208Y/120V, 3PH

LOAD DESCRIPTION	Connected KVA	Demand FACTOR	Demand KVA
HVAC - SUMMER	4.78	100%	4.78
HVAC - WINTER	4.78	0%	0.00
LIGHTING	53.39	100%	53.39
RECEPTACLES	2.52	100/50%	2.52
MOTOR LOADS	1.44	100%	1.44
LARGEST MOTOR LOAD	0.00	125%	0.00
SUPPLEMENTAL ELECTRIC HEAT	2.88	100%	2.88
MISCELLANEOUS EQUIPMENT	1.26	100%	1.26
SIGNAGE	0.00	125%	0.00
SHOW WINDOW & TRACK LTG	0.00	PER NEC	0.00
TOTAL LOAD	71.05	KVA	66.27
TOTAL AMPACITY	197.22	AMPS	183.94
SERVICE AMPACITY	400	AMPS	400.00
SPARE CAPACITY		AMPS	216

H ELECTRICAL SERVICE LOAD SUMMARY

SERVICE OCCUPANCY TYPE: Retail
SERVICE SQUARE FOOTAGE: 28,100
SERVICE DESCRIPTION: 480Y/277V, 3PH

LOAD DESCRIPTION	Connected KVA	Demand FACTOR	Demand KVA
HVAC - SUMMER	66.17	100%	66.17
HVAC - WINTER	66.17	0%	0.00
LIGHTING	4.89	125%	6.11
RECEPTACLES	8.28	100/50%	8.28
MOTOR LOADS	35.38	100%	35.38
LARGEST MOTOR LOAD	0.00	125%	0.00
SUPPLEMENTAL ELECTRIC HEAT	0.00	100%	0.00
MISCELLANEOUS EQUIPMENT	18.24	100%	18.24
SIGNAGE	1.20	125%	1.50
SHOW WINDOW & TRACK LTG	0.00	PER NEC	0.00
TOTAL LOAD	200.33	KVA	135.68
TOTAL AMPACITY	240.96	AMPS	163.20
SERVICE AMPACITY	200	AMPS	200.00
SPARE CAPACITY		AMPS	37

ONELINE GENERAL NOTES:

1. THE INFORMATION SHOWN IN THE SHORT CIRCUIT AND VOLTAGE DROP SCHEDULES ARE SHOWN FOR CALCULATION PURPOSES ONLY. CONTRACTOR SHALL NOT USE THE CONDUIT TYPES, CONDUCTOR TYPES, SIZES, QUANTITIES OR LENGTHS FOR TAKEOFFS OR BIDDING PURPOSES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THIS SCHEDULE AND OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY ENGINEER OF AS-BUILT CONDITIONS THAT CONSTITUTE A CHANGE FROM WHAT IS SHOWN BELOW; THIS INCLUDES THE CONDUCTOR LENGTHS DIFFERING BY MORE THAN 10%.
2. REFER TO THE SHORT CIRCUIT AND VOLTAGE DROP AT THIS TABLE. AVAILABLE FAULT CURRENT INFORMATION IS LISTED UNDER THE "FAULT CURRENT" COLUMN VOLTAGE DROP VALUES ARE LISTED UNDER THE :"CUMULATIVE VOLTAGE DROP" COLUMN. THE AIC/SCCR RATING OF THE EQUIPMENT SHALL NOT BE LESS THAN THE AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT +10$. ALL SERIES RATED EQUIPMENT SHALL BE PROPERLY LISTED AND LABELED PER CODE.
3. FEEDER SIZES ARE BASED ON CUPPER THHN/THWN-2 INSULATION, UNLESS NOTED OTHERWISE. NUMBER DESIGNATIONS PRECEDED BY "A" INDICATE THAT THE SIZE IS BASED ON ALUMININUM WIRE. AL CONDUCTOR SIZES ARE BASED XHHW-2 INSULATION. UNLESS OTHERWISE NOTED. AL WIRE MAY BE SUBSTITUTED FOR CU FEEDERS AS ALLOWED PER CODE, SPECIFICATIONS AND OWNER. UNLESS NOTED OTHERWISE. AT CONTRACTOR'S OPTION, CU WIRES MAY BE SUBSTITUTED FOR AL UNLESS NOTED OTHERWISE. ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS, UNLESS NOTED OTHERWISE. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC, RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. PROVIDE CIRCUIT BREAKER FRAME SIZE AND TERMINATIONS FOR CONDUCTORS SHOWN, TRIP UNIT MODULE RATING SHALL NOT EXCEED RATING SHOWN.
5. PROVIDE PERMANENT LABELS ON FRONT OF ELECTRICAL EQUIPMENT ENCLOSURES PER SPECIFICATIONS INDUSTRY SHADOW AND LOCAL REQUIREMENTS.
6. CONTRACTOR SHALL NOT CONNECT GENERATOR AS A SEPARATELY DERIVED SYSTEM. VERIFY NEUTRAL IS NOT BONDED TO GROUND
7. PROVIDED RELAY AND RELATED WIRING TO EXTERIOR EMERGENCY SHUT-OFF SWITCH WITH GENERATOR CONTROL PANEL. COORDINATE REQUIREMENTS WITH EQUIPMENT MANUFACTURER. REFER TO 1/E3.0 FOR MORE INFORMATION.
8. AUTOMATIC TRANSFER SWITCH ATS-1 IS PART OF A LEVEL 2 EMERGENCY POWER SUPPLY SYSTEM (EPSS) AS DEFINED BY NFPA110 AND SHALL TRANSFER WITH A DELAYED AUTOMATIC TRANSFER. THIS ATS SHALL ONLY SERVE NON-ESSENTIAL OPTIONAL STAND-BY LOADS. (SUPPLEMENTAL LIGHTING COMPUTERS, HVAC, REFRIGERATION, ETC.), THIS ATS SERVES LOADS WHERE FAILURE OF THE EQUIPMENT TO PERFORM MAY CAUSE DISCOMFORT. INTERRUPTION OF INDUSTRIAL PROCESS, OR DISRUPTION OF BUSINESS. REFER TO NFPA 70 AND NFPA 110 FOR MORE INFORMATION.
9. INSTALL FEEDERS UNDERSLAB. COORDINATE ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.
10. COORDINATE WORK WITH ARCHITECTURAL PHASING DRAWINGS TO PROPERLY STAGE TRANSITION TO PROVIDE POWER TO EXISTING, NEW AND TEMPORARY LOADS. MONITOR LOADS ON DISTRIBUTION SYSTEM TO MAKE SURE SHIFTING OF LOADS DOES NOT OVERLOAD ELECTRICAL EQUIPMENT.
11. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXISTING AIC/SCCR RATING OF EACH PANELBOARD/SWITCHBOARD. ALL NEW AND EXISTING OVER-CURRENT PROTECTION DEVICES (CIRCUIT BREAKERS AND FUSES) MUST HAVE AN AIC/SCCR RATING EXCEEDING THE AVAILABLE FAULT CURRENT AT THAT POINT IN THE SYSTEM. NOTIFY THE OWNER AND THE ENGINEER IF THE EXISTING EQUIPMENT DOES NOT COMPLY WITH THIS REQUIREMENT.
12. VERIFY THE INTEGRITY OF THE EXISTING GROUNDING ELECTRODE SYSTEM AND THAT THE NEUTRAL AND GROUND ARE PROPERLY BONDED TOGETHER AT THE POINT OF SERVICE ENTRANCE. NOTIFY THE LANDLORD, OWNER AND THE ENGINEER OF ANY EXISTING DEFICIENCIES.
13. VACUUM CLEAN ALL NEW AND EXISTING ELECTRICAL EQUIPMENT ALTERED UNDER THIS PROJECT TO REMOVE FOREIGN DEBRIS AND DUST. ALL OPENINGS SHALL BE SEALED PER CODE; PROVIDE LISTED KNOCKOUT PLUGS AND CIRCUIT BREAKER BLANKS AS NEEDED.
14. AS APPLICABLE, OBTAIN THE FOLLOWING INFORMATION IN REGARD TO THE EXISTING ELECTRICAL SERVICE AND DISTRIBUTION SYSTEM AND REPORT FINDINGS TO THE ENGINEER FOR ANALYSIS PRIOR TO BEGINNING CONSTRUCTION:
    - A. AVAILABLE FAULT CURRENT DELIVERED BY THE UTILITY COMPANY AT THE POINT OF SERVICE. INCLUDE THE AVAILABLE FAULT CURRENT DELIVERED TO THE TENANT SPACE BY THE LANDLORD'S DISTRIBUTION SYSTEM.
    - B. PROVIDE A PLAN SKETCH OF THE LANDLORD'S DISTRIBUTION EQUIPMENT LOCATION RELATIVE TO THE ENTIRE BUILDING. INCLUDE THE LOCATION OF TENANT SPACE UTILITY METER AND SERVICE DISCONNECT, RELEVANT FEEDER ROUTING AND LENGTHS.
    - C. PROVIDE A SKETCH OF THE ONE-LINE SHOWING THE PATH FROM THE UTILITY TRANSFORMER TO THE LANDLORD EQUIPMENT TO THE TENANT SPACE. INCLUDE FEEDER CONDUCTOR MATERIAL (AL OR CU), NUMBER AND SIZE OF CONDUCTORS, GROUND, LENGTH, CONDUIT SIZE AND CONDUIT TYPE.
    - D. TYPE OF SERVICE DISCONNECT OVER-CURRENT PROTECTION DEVICE, (FUSE OR CIRCUIT BREAKER), AMPERE RATING OF THE DEVICE AND AIC/SCCR RATING OF THE DEVICE.
    - E. AIC/SCCR RATING AT EACH EXISTING SWITCHBOARD/PANELBOARD.

REVISIONS

1	2	3
4	5	6

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

AutoZone Store No. 10668
4423 SOUTH MERIDIAN
PUYALLUP WA 98373

ONE-LINE RISER DIAGRAM AND SCHEDULES

HENDERSON ENGINEERS
5201 TENNYSON PARKWAY, SUITE 210
PLANO, TX 75024
TEL 972.386.6888 FAX 972.386.6887
WWW.HENDERSONENGINEERS.COM
2550003925
WA. CORPORATE NUMBER: 1754
06/30/26

BRIAN C. OLLIGES
STATE OF WASHINGTON
24015980
REGISTERED PROFESSIONAL ENGINEER
11/21/2025

PRCTI20251723

11/21/2025

65W2-REMODEL

E-4.0

PANELBOARD: E (NEW)

BUS AMPS: 100A
MAIN SIZE/TYPE: 60A MCB
VOLTS/PHASE: 120/240V, 1PH, 3W
SECTION: 1

FED FROM: **ATS-1 VIA PNLBD L**
AIC RATING: FCA +10% MINIMUM, FULLY RATED
MOUNTING: RECESSED
SERVES: NON-EM STANDBY LOADS
LOCATION: BOH OUTSIDE OF RESTROOMS

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	DESCRIPTION	CKT NO.
	1	RCPT - ELEC EQ. MAINTENANCE [R]	180		12	20	1	1	20	12	360		COMMERCIAL COUNTER #1 [R]	2
	3	LTG - SALES SUPP. REGISTERS [L]		192	12	20	1	1	20	12		360	COMMERCIAL HUB #1 [R]	4
	5	CHECKOUT POS #1 [R]	360		12	20	1	1	20	12	360		COMMERCIAL HUB #2 [R]	6
	7	CHECKOUT POS #2 [R]		360	12	20	1	1	20	12		360	COMMERCIAL HUB #3 [R]	8
	9	CHECKOUT POS #3 [R]	360		12	20	1	1	20				SPARE	10
	11	CHECKOUT POS #4 [R]		360	12	20	1	1	20	12		360	TESTER POS #1 [R]	12
VD	13	SUITE 725/727 INVT. CNTR. STAT.	900		10	20	1	1	20	12	360		FTR COMM. CNTR #2 [R]	14
	15	SPARE				20	1	1	20				SPARE	16
	17	SPARE				20	1	1	20				SPARE	18
	19	EQUIPPED SPACE			--	--	1	1	--	--			EQUIPPED SPACE	20
	21	EQUIPPED SPACE			--	--	1	1	--	--			EQUIPPED SPACE	22
	23	EQUIPPED SPACE			--	--	1	1	--	--			EQUIPPED SPACE	24
	25	EQUIPPED SPACE			--	--	1	1	--	--			EQUIPPED SPACE	26
	27	EQUIPPED SPACE			--	--	1	1	--	--			EQUIPPED SPACE	28
	29	EQUIPPED SPACE			--	--	1	1	--	--			EQUIPPED SPACE	30
		SUBTOTAL	1,800	912							1,080	1,080	SUBTOTAL	

TOTAL PHASE A - VA	2,880	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	24	COOLING [C]		1.00	REFRIG [F]		1.00	
TOTAL PHASE B - VA	1,992	HEATING [H]		0	SIGNAGE [S]		1.25	
AMPS	17	LIGHTING [L]	192	1.25	KITCHEN [K]		1.00	
TOTAL PNLBD - VA	4,872	RECEPTACLES [R]	4,680	1.0/.5	EXISTING [E]		1.00	
AMPS	20	MOTORS [M]		1.00	LRG MOTOR		1.25	TOTAL DEMAND
		SUPP HEAT [U]		1.00	SHOW WIND [W]		1.25	4,920 VA
		MISC EQUIP [Z]		1.00	LTG TRACK		1.00	21 A

PANELBOARD NOTES

PANELBOARD: H (ETR)

BUS AMPS: 225A
MAIN SIZE/TYPE: 200A MCB
VOLTS/PHASE: 480Y/277V, 3PH, 4W
SECTION: 1

FED FROM: **TBD**
AIC RATING: CONTRACTOR TO VERIFY & NOTIFY EOR
MOUNTING: SURFACE
SERVES: SUITE 723B HVAC LOADS
LOCATION: BOH EGRESS EXIT, SUITE 723B

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	VOLTAMPS/PHASE C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	VOLTAMPS/PHASE C	DESCRIPTION	CKT NO.	
	1		6,343													2	
VD,N	3	RTU-1 [HCM]		6,343		8	30	3	3	20					SPARE	4	V
	5				6,343											6	
	7		6,343													8	
VD,N	9	RTU-2 [HCM]		6,343		8	30	3	3	60					SPARE	10	V
	11				6,343											12	
	13		6,343													14	
N	15	RTU-3 [HCM]		6,343		10	30	3	3	60					SPARE	16	V
	17				6,343											18	
	19		6,343													20	
VD,N	21	RTU-4 [HCM]		6,343		8	30	3	3	60					SPARE	22	V
	23				6,343											24	
	25		6,343						1	20					SPARE	26	V
N	27	RTU-5 [HCM]		6,343		10	30	3	1	20					SPARE	28	V
	29				6,343				1	20					SPARE	30	V
V	31	SPARE					20	1	1	20					SPARE	32	V
V	33	SPARE					20	1	1	20					SPARE	34	V
V	35	SPARE					20	1	1	20					SPARE	36	V
	37		11,111						1	20					SPARE	38	V
EX	39	PNLBD L VIA 75kVA XFMR		14,418		ETR	90	3	1	20					SPARE	40	V
	41				13,478				1	20					SPARE	42	V
		SUBTOTAL	42,827	46,135	45,194										SUBTOTAL		

TOTAL PHASE A - VA	42,827	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	155	COOLING [C]	66,171	1.00	REFRIG [F]		1.00	
TOTAL PHASE B - VA	46,135	HEATING [H]	66,171	0	SIGNAGE [S]	1,200	1.25	
AMPS	167	LIGHTING [L]	4,890	1.25	KITCHEN [K]		1.00	
TOTAL PHASE C - VA	45,194	RECEPTACLES [R]	8,280	1.0/.5	EXISTING [E]		1.00	
AMPS	163	MOTORS [M]	35,375	1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	134,156	SUPP HEAT [U]		1.00	SHOW WIND [W]		1.25	135,679 VA
AMPS	161	MISC EQUIP [Z]	18,240	1.00	LTG TRACK		1.00	163 A

PANELBOARD NOTES

PANELBOARD: L (ETR)

BUS AMPS: 225A
MAIN SIZE/TYPE: 200A MCB
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: **PNLBD H VIA 75kVA XFMR**
AIC RATING: CONTRACTOR TO VERIFY & NOTIFY EOR
MOUNTING: SURFACE
SERVES: SUITE 723B GENERAL LOADS
LOCATION: BOH EGRESS EXIT, SUITE 723B

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	VOLTAMPS/PHASE C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	VOLTAMPS/PHASE C	DESCRIPTION	CKT NO.	
VD,R	1	POS CEILING FAN #1 [M]	600			10	20	1	1	20	12	180			RCPT - POD#2 COUNTER [R]	2	R
VD,R	3	POS CEILING FAN #2 [M]		600		10	20	1	1	20	12		180		RCPT - CHECKOUT COUNTER [R]	4	R
VD,R	5	POS CEILING FAN #3 [M]			600	10	20	1	1	20	12			180	RCPT - COMM. COUNTER #1 [R]	6	R,VD
VD,R	7	SUITE 723B RFTP MNTC RCPT [R]	720			10	20	1	1	20	12	180			RCPT - SUITE 723B BCK ENTR W [Z]	8	R
VD,R	9	SHOW WINDOW RCPT [R]		720		10	20	1	1	20	12		900		RCPT - OFFICE AREA VND MCHN [R]	10	R
VD,R	11	STE 723B MAIN COM ENTR ALRM [Z]			540	10	20	1	1	20	12			180	RCPT - TESTER POS #2 [R]	12	R
N	13	RCPT - BRK RM. VNDG MCHN #1 [Z]	900			12	20	1	1	20	10	540			SUITE 723B MAIN ENTRC ALARM [Z]	14	R
N	15	RCPT - BRK RM. VNDG MCHN #2 [Z]		900		12	20	1	2	20	10		1,550		ERV-1 [HCM]	16	N,VD
N	17	RCPT - BRK RM. VNDG MCHN #3 [Z]			900	12	20	1						1,550		18	
N	19	RCPT - BRK RM. VNDG MCHN #4 [Z]	900			12	20	1	2	15	12	749			ERV-2 [HCM]	20	N
N	21	RCPT - BRK RM. FRIDGE #1 [Z]		720		12	20	1					749			22	
N	23	RCPT - BRK RM. FRIDGE #2 [Z]			720	12	20	1	1	20	10			1,440	RCPT - BATT. CHRG SIMPLEX #1 [Z]	24	N,VD
VD,N	25	RCPT - BRK RM. MICROWAVE [Z]	1,440			10	20	1	1	20	10	1,440			RCPT - BATT. CHRG SIMPLEX #2 [Z]	26	N,VD
VD,N	27	RCPT - BRK RM. COFF. MCHN [Z]		1,440		10	20	1	1	20	10		1,440		RCPT - BATT. CHRG SIMPLEX #3 [Z]	28	N,VD
N	29	RCPT - WTR FOUNTAIN #1 [Z]			360	12	20	1	1	20	10			1,440	RCPT - BATT. CHRG SIMPLEX #4 [Z]	30	N,VD
N	31	RCPT - WTR FOUNTAIN #2 [Z]	360			12	20	1	1	20	10	1,440			RCPT - BATT. CHRG SIMPLEX #5 [Z]	32	N,VD
N	33	RCPT - BREAK ROOM CONV. [R]		360		12	20	1	1	20	8		1,440		LTG - STE 723B BOH WRK AREA A [L]	34	N,VD,EM
LCK,N	35	GENERATOR CNTRL PANEL [Z]			600	12	20	1	1	20	8			1,776	LTG - STE 723B BOH WRK AREA B [L]	36	N,VD,EM
N	37	RCPT - ELEC. PNL. MAINTENANCE [R]	180			12	20	1	1	20	8	1,482			LTG - STE 723B BOH WRK AREA C [L]	38	N,VD,EM
N	39	PNLBD E VIA ATS-1		2,880		OL	60	2	1	20	10		540		SUITE 723B SALES CAMERAS	40	R,VD
	41				1,992				1	20	10			1,200	STOREFRONT SIGNAGE [S]	42	R,VD
		SUBTOTAL	5,100	7,620	5,712							6,011	6,798	7,766	SUBTOTAL		

TOTAL PHASE A - VA	11,111	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	93	COOLING [C]	2,184	1.00	REFRIG [F]		1.00	
TOTAL PHASE B - VA	14,418	HEATING [H]	2,184	0	SIGNAGE [S]	1,200	1.25	
AMPS	120	LIGHTING [L]	4,890	1.25	KITCHEN [K]		1.00	
TOTAL PHASE C - VA	13,478	RECEPTACLES [R]	8,280	1.0/.5	EXISTING [E]		1.00	
AMPS	112	MOTORS [M]	4,213	1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	39,007	SUPP HEAT [U]		1.00	SHOW WIND [W]		1.25	40,529 VA
AMPS	108	MISC EQUIP [Z]	18,240	1.00	LTG TRACK		1.00	112 A

PANELBOARD NOTES

PANELBOARD: MDP (ETR)

BUS AMPS: 400A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: **TBD**
AIC RATING: CONTRACTOR TO VERIFY & NOTIFY EOR
MOUNTING: SURFACE
SERVES: SUITE 725/727 HVAC LOADS
LOCATION: SUITE 725/727 ELEC RM.

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	VOLTAMPS/PHASE C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	VOLTAMPS/PHASE C	DESCRIPTION	CKT NO.	
	1															2	
V	3	SPARE					90	3	3	90					SPARE	4	V
	5															6	
	7		4,200													8	
EX	9	PNLBD LPB		4,828		EX	225	3	3	225					SPARE	10	V
	11				3,324											12	
VD	13	MINI EWH-1 (1.4kW)	1,440			10	20	1							SPARE	14	V
VD	15	MINI EWH-2 (1.4kW)		1,440		10	20	1	2	20						16	
N	17	RCPT - ELEC EQ. MAINT. [R]			180	12	20	1	1	--	--				EQUIPPED SPACE	18	
	19								2	40	6	3,110			ERV-3 [HCM]	20	N,VD
	21	EQUIPPED SPACE				--	--	3					3,110			22	
	23								1						EQUIPPED SPACE	24	
	25															26	
	27	EQUIPPED SPACE				--	--	3	3	--	--				EQUIPPED SPACE	28	
	29															30	
	31															32	
	33	EQUIPPED SPACE				--	--	3	3	--	--				EQUIPPED SPACE	34	
	35															36	
	37															38	
	39	EQUIPPED SPACE				--	--	3	3	--	--				EQUIPPED SPACE	40	
	41															42	
		SUBTOTAL	5,640	6,268	3,504							3,110	3,110		SUBTOTAL		

TOTAL PHASE A - VA	8,750	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	73	COOLING [C]	4,784	1.00	REFRIG [F]		1.00	
TOTAL PHASE B - VA	9,378	HEATING [H]	4,784	0	SIGNAGE [S]		1.25	
AMPS	78	LIGHTING [L]	8,752	1.25	KITCHEN [K]		1.00	
TOTAL PHASE C - VA	3,504	RECEPTACLES [R]	2,520	1.0/.5	EXISTING [E]		1.00	
AMPS	29	MOTORS [M]	1,435	1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	21,631	SUPP HEAT [U]	2,880	1.00	SHOW WIND [W]		1.25	23,819 VA
AMPS	60	MISC EQUIP [Z]	1,260	1.00	LTG TRACK		1.00	66 A

PANELBOARD NOTES

PANELBOARD: LPB (ETR)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: **MDP VIA 3P/225A BREAKER**
AIC RATING: CONTRACTOR TO VERIFY & NOTIFY EOR
MOUNTING: SURFACE
SERVES: GENERAL LOADS SUITE 725/727
LOCATION: SUITE 725/727 ELEC RM.

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	VOLTAMPS/PHASE C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	VOLTAMPS/PHASE B	VOLTAMPS/PHASE C	DESCRIPTION	CKT NO.	
R	1	SUITE 725/727 RFTP RCPT [R]	360			12	20	1	1	20	10	540			RCPT - STE 723B CONV. SALES	2	R,VD
VD,R	3	SHOW WINDOW RCPT [R]		1,260		10	20	1	1	20	8		1,536		LTG - MAIN SALES AREA A	4	R,EM,VD
VD,R	5	RCPT - FTR COMM. CNTR #2 [R]			180	10	20	1	1	20	8			1,200	LTG - MAIN SALES AREA B	6	R,EM,VD
R	7	SUITE 725/727 BCK ENTR W [Z]	180			12	20	1	1	20	10	1,392			LTG - SUITE 725/727 BOH AREA A	8	R,EM,VD
R	9	SUITE 725/727 BCK ENTR N [Z]		180		12	20	1	1	20	10		1,368		LTG - SUITE 725/727 BOH AREA B	10	R,EM,VD
VD,R	11	TELEPHONE BACKBOARD [Z]			180	10	20	1	1	20	8			1,584	LTG - SUITE 725/727 BOH AREA C	12	R,VD
VD,R	13	ALC PANEL [Z]	180			10	20	1	1	20	8	1,368			LTG - SUITE 725/727 BOH AREA D	14	R,VD
VD,R	15	ALARM PANEL RCPTS [Z]		180		10	20	1	1	20	8		304		LTG - BUILDING EXITS	16	R,VD,EM
VD,R	17	TELEPHONE COMMS 1 [Z]			180	10	20	1	1	20					SPARE	18	V
VD,R	19	TELEPHONE COMMS 2 [Z]	180			10	20	1	1	20					SPARE	20	V
V	21	SPARE					20	1	1	20					SPARE	22	V
V	23	SPARE					20	1	1	20					SPARE	24	V
V	25	SPARE					20	1	1	20					SPARE	26	V
V	27	SPARE					20	1	1	20					SPARE	28	V
V	29	SPARE					20	1	1	20					SPARE	30	V
V	31	SPARE					20	1	1	20					SPARE	32	V
V	33	SPARE					20	1	1	20					SPARE	34	V
V	35	SPARE					20	1	1	20					SPARE	36	V
V	37	SPARE					20	1	1	20					SPARE	38	V
V	39	SPARE					20	1	1	20					SPARE	40	V
V	41	SPARE					20	1	1	20					SPARE	42	V
		SUBTOTAL	900	1,620	540							3,300	3,208	2,784	SUBTOTAL		

TOTAL PHASE A - VA	4,200	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	35	COOLING [C]		1.00	REFRIG [F]		1.00	
TOTAL PHASE B - VA	4,828	HEATING [H]		0	SIGNAGE [S]		1.25	
AMPS	40	LIGHTING [L]	8,752	1.25	KITCHEN [K]		1.00	
TOTAL PHASE C - VA	3,324	RECEPTACLES [R]	2,340	1.0/.5	EXISTING [E]		1.00	
AMPS	28	MOTORS [M]		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	12,352	SUPP HEAT [U]		1.00	SHOW WIND [W]		1.25	14,540 VA
AMPS	34	MISC EQUIP [Z]	1,260	1.00	LTG TRACK		1.00	40 A

PANELBOARD NOTES

PANELBOARD LEGEND

ABBREVIATIONS V1.03

AF	ARC FAULT CIRCUIT INTERRUPTER.
C#	CIRCUIT VIA CONTACTOR #.
CL	CIRCUIT VIA CURRENT LIMITING DEVICE.
D	DISCONNECT CIRCUITRY FOR REMOVED LOAD, UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.
EM	EMERGENCY LIGHTING HANDLE-ON CLAMP.
EX	EXISTING.
F	FUTURE LOAD; NOTE AS SPARE AND TURN OFF.
FA	RED HANDLE-ON CLAMP.
GF	GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA). (WHERE GFCI CIRCUIT BREAKERS ARE INDICATED BUT NOT AVAILABLE: PROVIDE UL 943 LISTED, CLASS A GFCI DEVICE FOR BRANCH CIRCUIT BY NORTHSHORE SAFETY OR LITTLEFUSE SHOCK BLOCK AT APPROPRIATE AMPERAGE AND LOCATE ADJACENT TO THE PANELBOARD IN A READILY ACCESSIBLE LOCATION).
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).
HT	PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.
IG	ISOLATED GROUND CIRCUIT.
L#	LIGHTING CONTROL SCHEME NUMBER.
LCK	HANDLE PADLOCKABLE-OFF DEVICE.
LO	HANDLE-ON CLAMP.
N	PROVIDE NEW CIRCUIT BREAKER.
OL	REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.
PS	POWER-SWITCHING CIRCUIT BREAKER.
PSE	EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.
R	REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD.
RP	CIRCUIT VIA RELAY PANEL.
ST	SHUNT TRIP CIRCUIT BREAKER.
STC	SHUNT TRIP CONTACTOR
V	VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED, NOTE AS SPARE AND TURN OFF.
VD	BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.
Z	CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION.

NOT ALL ABBREVIATIONS ARE USED.

REVISIONS

1	2	3	4	5	6

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PUYALLUP WA 98373

ELECTRICAL PANEL SCHEDULES

HENDERSON ENGINEERS
5201 TENNYSON PARKWAY, SUITE 210
PLANO, TX 75024
TEL 972.386.6888 FAX 972.386.6887
WWW.HENDERSONENGINEERS.COM

2550003925
WA. CORPORATE NUMBER: 1754
06/30/26

BRIAN C. OLLIGES — STATE OF WASHINGTON — 24015980 — REGISTERED PROFESSIONAL ENGINEER — 11/2025

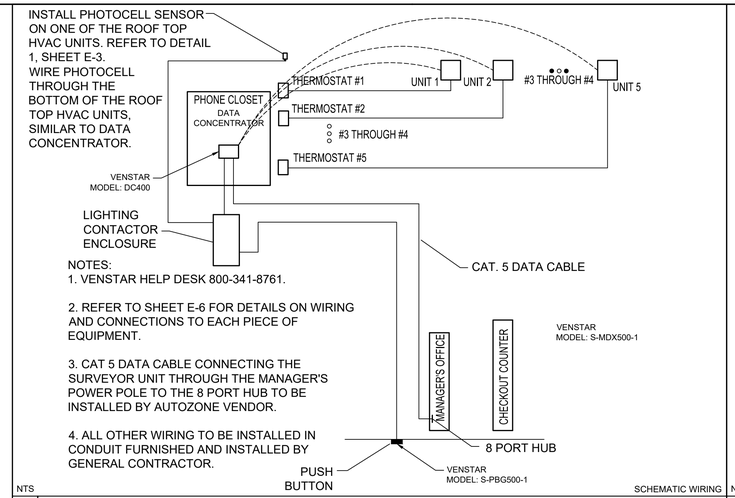
PRCTI20251723

11/21/2025

65W2-REMODEL

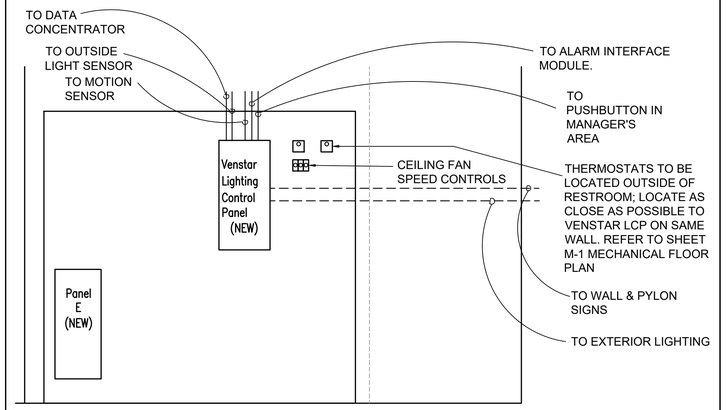
E-4.1

BRIAN C. OLLIGES



NTS SCHEMATIC WIRING

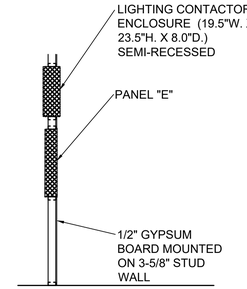
1 SCHEMATIC WIRING DIAGRAM - VENSTAR / LIGHTING CONTROL PANEL



REFER TO PANELBOARD SCHEDULE FOR LIGHTING CIRCUIT NUMBERS.

NTS pnl-elev

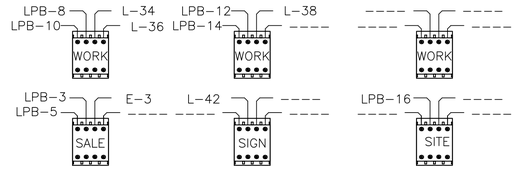
2 PANELBOARD - DIAGRAM



NTS pnl-sect

3 PANELBOARD - MOUNTING HEIGHT SECTION

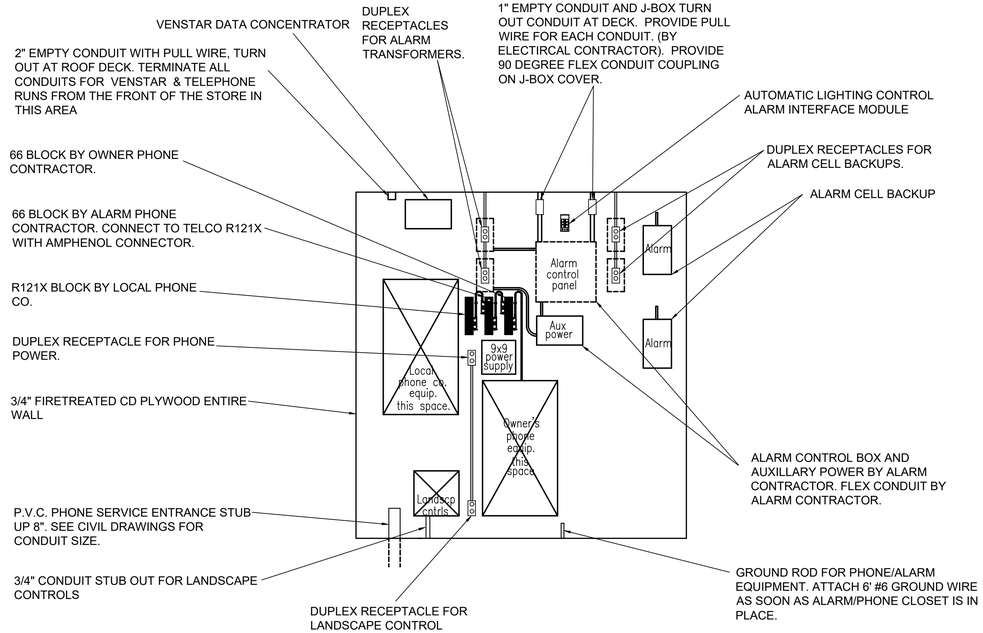
LINE VOLTAGE CONNECTIONS FROM CIRCUIT BREAKER PANEL TO TOP TERMINALS OF CONTACTORS CONTROL CIRCUIT.



LOAD CONNECTIONS TO LIGHTS ON BOTTOM TERMINALS.

NTS

4 LIGHTING CONTROL SCHEDULE



NOTE: MOUNT ALL DUPLEX OUTLETS IN SHALLOW 2" X 4" HANDY BOXES.

NTS PHONE-BDrev

5 ALARM / PHONE BOARD REQUIREMENTS

REVISIONS

1	2	3
4	5	6

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65W2-REMODEL

E-5.0

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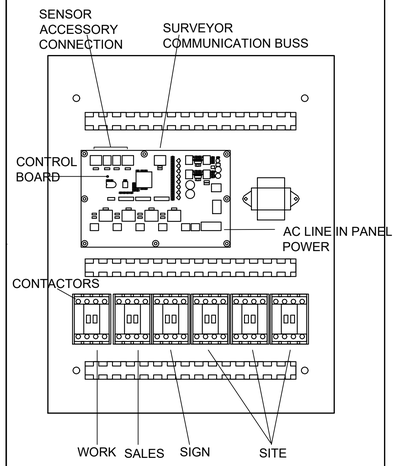
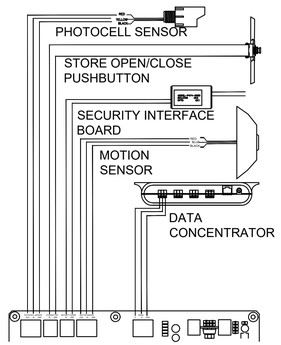


3" = 1'-0" VENSTAR1

1 LOCATION OF CONTROLS

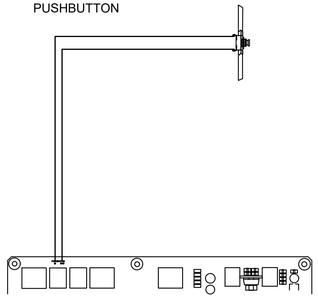
DO NOT FORGET TO CONNECT THE LIGHTING CONTROL PANEL (LCP) TO THE DATA CONCETRATOR.



1' = 1'-0" VENSTAR2

2 WIRING DIAGRAM - LCP

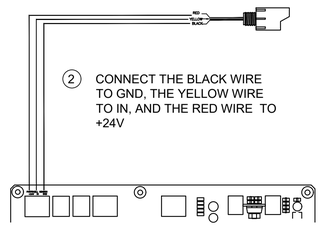
1. ELECTRIC PLAN FOR LOCATION JUNCTION BOX, SEE THE IN A STANDARD 2 X 4 MOUNT THE PUSHBUTTON



6" = 1'-0" VENSTAR3

3 OPEN / CLOSE BUTTON

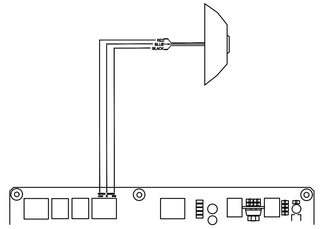
1. MOUNT THE PHOTOCELL ON THE ROOF FACING NORTH, SEE ARCHITECTURAL DRAWINGS FOR DETAILS
2. CONNECT THE BLACK WIRE TO GND, THE YELLOW WIRE TO IN, AND THE RED WIRE TO +24V



6" = 1'-0" VENSTAR4

4 PHOTOCELL SENSOR

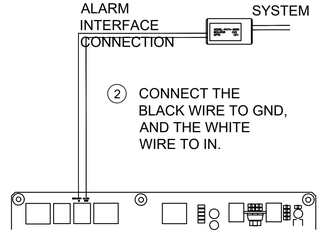
1. MOUNT THE MOTION SENSORS IN LOCATIONS SHOWN IN THE LIGHTING PLAN
2. CONNECT THE BLACK WIRE TO GND, THE BLUE WIRE TO IN, AND THE RED WIRE TO +24V



6" = 1'-0" VENSTAR5

5 MOTION SENSOR

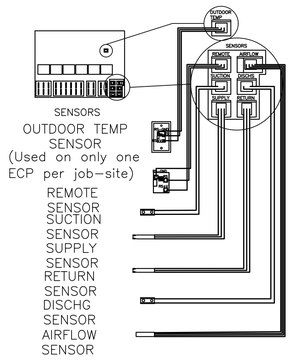
1. MOUNT THE INTERFACE DEVICE ON THE BOARD IN THE TELEPHONE CLOSET SEE DETAIL SHEET E-4
2. CONNECT THE BLACK WIRE TO GND, AND THE WHITE WIRE TO IN.



6" = 1'-0" VENSTAR6

6 ALARM INTERFACE

UNLESS NOTED ON SHEET M-1 FOR THE CONTRACTOR TO FIELD INSTALL ALL VENSTAR SENSORS AND EQUIPMENT; THE EQUIPMENT CONTROL PAC (ECP) WILL BE FACTORY INSTALLED INSIDE EACH HVAC UNIT. THE FACTORY INSTALLATION WILL INCLUDE ALL SENSORS SHOWN BELOW EXCEPT THE OUTDOOR TEMP AND REMOTE SENSORS WHICH ARE TO BE INSTALLED AND WIRED BY THE HVAC SUBCONTRACTOR.

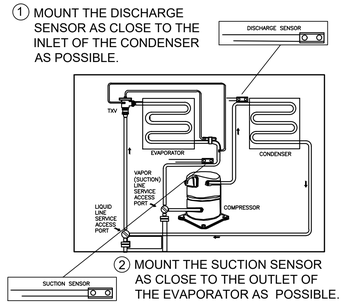


3" = 1'-0" VENSTAR7

7 ECP SENSOR CONNECTIONS

IF DRAWINGS INDICATE THAT SENSORS AND EQUIPMENT ARE TO BE FIELD INSTALLED, THEN MOUNT SENSORS AS SHOWN IN THE DIAGRAM BELOW. ATTACH SENSORS TO PIPE USING ZIP TIES.

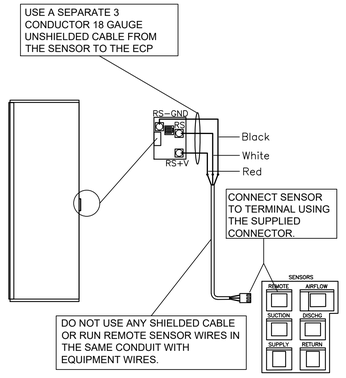
1. MOUNT THE DISCHARGE SENSOR AS CLOSE TO THE INLET OF THE CONDENSER AS POSSIBLE.
2. MOUNT THE SUCTION SENSOR AS CLOSE TO THE OUTLET OF THE EVAPORATOR AS POSSIBLE.



1' = 1'-0" VENSTAR8

8 LOCATION OF SENSORS

MOUNT REMOTE TEMPERATURE SENSOR ON RETURN AIR DUCT AS INDICATED IN THE ISOMETRIC DRAWING THIS SHEET.



1' = 1'-0" VENSTAR9

9 LOCATION OF SENSORS

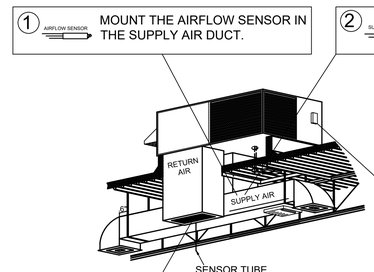
MOUNT OUTDOOR TEMPERATURE SENSOR ON VERTICAL EXTERIOR FACE OF HVAC UNIT NEAR THE TOP OF THE UNIT. DO NOT MOUNT ON ACCESS DOOR OR PANELS. ONLY ONE PER STORE IS REQUIRED.

1' = 1'-0" VENSTAR10

10 LOCATION OF SENSORS

IF DRAWINGS INDICATE THAT SENSORS AND EQUIPMENT ARE TO BE FIELD INSTALLED, THEN MOUNT THE AIRFLOW SENSOR, SUPPLY SENSOR, RETURN SENSOR WHERE SHOWN IN THE DIAGRAM BELOW. IN ALL CASES THE CONTRACTOR WILL MOUNT THE REMOTE TEMP SENSOR AND THE OUTSIDE SENSOR WHERE INDICATED IN THIS DRAWING.

1. MOUNT THE AIRFLOW SENSOR IN THE SUPPLY AIR DUCT.
2. MOUNT THE SUPPLY SENSOR IN THE SUPPLY AIR DUCT.



CARRIER ROOFTOP UNIT-VIEW OF RTU SEE SHEET M-1 FOR ADDITIONAL INFO.

3. MOUNT THE RETURN AIR SENSOR ON THE RETURN AIR DUCT.
4. MOUNT THE OUTSIDE SENSOR ON THE SIDE OF THE HVAC UNIT.

5/16" = 1'-0" SENSOR LOCATION

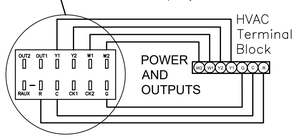
11 SENSOR LOCATION

IF DRAWINGS INDICATE THAT SENSORS AND EQUIPMENT ARE TO BE FIELD INSTALLED, THEN CONNECT HVAC TREMINAL BLOCK TO EQUIPMENT CONTROL PAC USING 18 GAUGE WIRE PER THE DIAGRAM OR TABLE BELOW.

MOUNT EQUIPMENT CONTROL PAC INSIDE THE HVAC UNIT

Wire from the HVAC terminal block marked	Function	Install on the EPC connector marked
G or F	Fan	G
Y1, Y or C	Cooling	Y1
W1, W or H	Heating	W1, O, B
Rh, R, M, Vr, A	Power	R
C	Common	C
O/B	Rev. Valve	W1, O, B **
W2	2nd Stage Heat	W2
Y2	2nd Stage Cool	Y2

* C may not be used on all systems
** O/B is used for Heat Pumps only

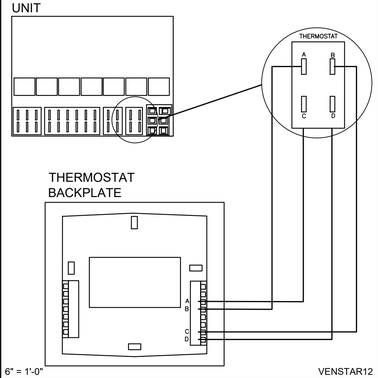


3" = 1'-0" VENSTAR11

12 HVAC CONNECTIONS

CONNECT THERMOSTATS TO EQUIPMENT CONTROL PAC USING 18 GAUGE WIRE PER THE DIAGRAM BELOW.

MOUNT EQUIPMENT CONTROL PAC INSIDE THE HVAC UNIT

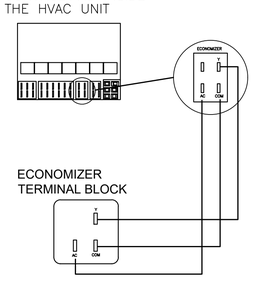


6" = 1'-0" VENSTAR12

13 THERMOSTAT CONNECTIONS

CONNECT ECONOMIZER, IF REQUIRED TO EQUIPMENT CONTROL PAC USING 18 GAUGE WIRE PER THE DIAGRAM BELOW.

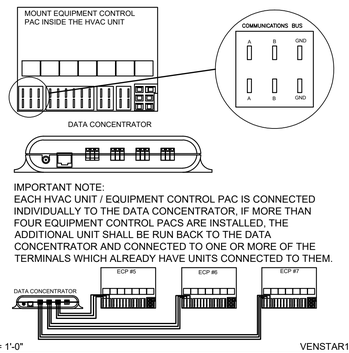
MOUNT EQUIPMENT CONTROL PAC INSIDE THE HVAC UNIT



3" = 1'-0" VENSTAR13

14 ECONOMIZER CONNECTIONS

CONTRACTOR TO CONNECT EACH EQUIPMENT CONTROL PACS TO THE DATA CONCENTRATOR USING 18 GAUGE WIRE PER THE DIAGRAM BELOW. ADDITIONALLY, RUN 4 CONDUCTOR 18 GAUGE WIRE BETWEEN THE DATA CONCENTRATOR AND EACH HVAC UNIT LEAVING 5 FOOT OF WIRE AT EACH END; AND RUN ONE 22/2 GAUGE PLENUM RATED WIRE BETWEEN EACH UNIT AND THE DATA CONCENTRATOR, LEAVE 10 FEET OF WIRE IN THE UNIT AND 2 FEET AT THE DATA CONCENTRATOR.



IMPORTANT NOTE:
EACH HVAC UNIT / EQUIPMENT CONTROL PAC IS CONNECTED INDIVIDUALLY TO THE DATA CONCENTRATOR, IF MORE THAN FOUR EQUIPMENT CONTROL PACS ARE INSTALLED, THE ADDITIONAL UNIT SHALL BE RUN BACK TO THE DATA CONCENTRATOR AND CONNECTED TO ONE OR MORE OF THE TERMINALS WHICH ALREADY HAVE UNITS CONNECTED TO THEM.

1' = 1'-0" VENSTAR14

15 CONCENTRATOR CONNECTIONS

VENSTAR CONTROL WIRING GENERAL NOTES - PROTOTYPE

1. AUTOZONE WILL FURNISH VENSTAR LIGHTING AND HVAC CONTROL DEVICES AS INDICATED ON THIS SHEET, CONTRACTOR WILL FURNISH ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE INSTALLATION.

2. UNLESS NOTED OTHERWISE ELSEWHERE IN THE DRAWINGS ROOF TOP UNITS WILL COME WITH FACTORY INSTALLED SUCTION, DISCHARGE, SUPPLY, RETURN AND AIRFLOW SENSORS, AS WELL AS AN EQUIPMENT CONTROL PAC INSIDE THE UNIT. THE OUTDOOR TEMP. AND REMOTE TEMP. SENSORS ARE TO BE INSTALLED BY CONTRACTOR. MOUNT THE DATA CONCENTRATOR ON THE PHONE BOARD UPPER LEFT HAND SIDE ABOVE THE LOCAL PHONE COMPANY'S EQUIPMENT SPACE, AND MOUNT THE LIGHTING CONTROL UNIT AND THERMOSTATS ON THE WALL ABOVE THE ELECTRIC PANELS, ALL AS INDICATED ON DRAWINGS.

3. ALL WIRING TO BE RUN IN 1/2" CONDUIT.

4. FOLLOW VENSTAR INSTALLATION INSTRUCTIONS OUTLINED ON THIS SHEET. FOR ANY QUESTIONS OR CLARIFICATIONS CONTACT AUTOZONE'S PROJECT MANAGER.

5. AUTOZONE'S VENDOR WILL RUN ONE CATAGORY 5 DATA CABLE FROM THE DATA CONCENTRATOR IN THE TELEPHONE CLOSET DOWN THROUGH THE POWER POLE IN THE MANAGER'S OFFICE AREA IN ORDER TO ACTIVATE THE COMMUNICATIONS.

6. NORMALLY THE HVAC CONTRACTOR WILL INSTALL ALL HVAC SENSORS AND WIRING FOR SAME, AND THE ELECTRICAL CONTRACTOR WILL INSTALL LIGHTING CONTROL PANEL, ALL ACCESSORIES, DATA CONCENTRATOR AND DATA CABLE.

7. CONTRACTOR MAY USE ONE OF THE CONTACTORS DEDICATED TO SIGNAGE FOR ADDITIONAL SITE LIGHT CIRCUITS IF NEEDED. CONTRACTOR WILL NEED TO CHANGE THE CONTACTORS CONNECTION ON THE CONTROL BOARD TO MATCH THE SITE LIGHT CONTACTORS.

8. THE PHONE NUMBER FOR VENSTAR TECHNICAL SERVICES IS: 818-812-9812

1/8" = 1'-0" VENSTAR-TEXT

16 CONTROL WIRING GENERAL NOTES

REVISIONS

1	2	3
4	5	6

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FOR REFERENCE ONLY

11/21/2025

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E-6.0

BRIAN C. OLLIGES

LIGHTING COMPLIANCE SUMMARY

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

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Project & Applicant Information	**Project Title**	2550003925 AutoZone Mega HUB 10668 - 2021 WSEC	For Building Department Use: **Date: Nov 24, 2025**
	Project Address	4423 SOUTH MERIDIAN PUYALLUP, WA 98373	
	Applicant Name	Adrian Sosa	
	Applicant Phone	913-742-5000	
	Applicant Email	adrian.sosa@hendersonengineers.com	

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

General Occupancy	All Commercial	**General Building Use Type**		Retail, General Sales	**Building Cond. Floor Area**	28,100
General Project Types	Alteration	**New Building or Addition / Lighting Scope**		**Alteration Lighting Scope**	Interior Lighting Exterior Lighting	**Project Cond. Floor Area**	28,100
						Floors Above Grade	1
						Compliance Method	General Prescriptive
Lighting Project Description	Interior Existing Tenant Space Alteration.						

Lighting Compliance Scope and Method	**Project Type**	**Interior / Exterior** (Interior includes both interior & parking)	**Luminaire Replacement Scope**	**Compliance Method**	**LPA Calculation Adjustment**	**Compliance Verification**
	Alteration	Interior Lighting	20% or more replaced	Building area	No Calculation Adjustments allowed	**COMPLIES**
	Alteration	Exterior Lighting	less than 20% replaced		Not applicable to exterior	**COMPLIES**
Additional Energy Efficiency (AEC) Measures Included	No lighting or electrical additional energy efficiency measures included in project		**Load Management (LDM) Measures Included**		No lighting or electrical load management measures included in project	

Project Title	2550003925 AutoZone Mega HUB 10668 - 2021 WSEC	**Date**	Nov 24, 2025
Lighting Power Calculation	**ALTERATION - INTERIOR LIGHTING (20% or more replaced)**	**Compliance Verification**	**COMPLIES**
Compliance Method	**Building area**	**LPA Calculation Adjustment**	**none**

Interior Lighting Power Allowance - Building Area

Building Areas	**Gross Interior Area (SF)**	**LPA (Watts/SF)**	**Total Watts Allowed (SF x LPA x 1)**	**Total Proposed Watts By Building Area**	**Compliance Status by Building Area**
Retail	28,100	0.84	23,604	14,424	COMPLIES

Proposed Lighting Power Density

Fixture Type/Application	**Fixture ID**	**Building Area**	**New or Existing-to-Remain**	**Quantity of Fixtures, CLDs or Luminaires (#F)**	**Watts per Fixture, CLD or Luminaire (WpF)**	**Total Linear Feet (LF)**	**Watts per Linear Foot (WpLF)**	**Total Watts Proposed (#F x WpF) or (LF x WpLF)**
Individual Fixtures								
Other fixture type	C	Retail	New	5	24			120
Other fixture type	N	Retail	New	28	12			336
Other fixture type	A	Retail	New	57	48			2,736
Other fixture type	B	Retail	New	468	24			11,232

Project Title	2550003925 AutoZone Mega HUB 10668 - 2021 WSEC	**Date**	Nov 24, 2025
Proposed Fixtures Details	**ALTERATION - INTERIOR LIGHTING (20% or more replaced)**		

Fixture Type/Application	**Fixture ID**	**Location in Documents**	**Lamp Type**	**Building Area**	**New or Existing-to-Remain**
Individual Fixtures					
Other fixture type	C	E-3, E-3.1	LED	Retail	New
	Fixture Description: 4-LF LED LINEAR			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: None required				
Other fixture type	N	E-3, E-3.1	LED	Retail	New
	Fixture Description: 4-LF LED LINEAR			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: None required				
Other fixture type	A	E-3, E-3.1	LED	Retail	New
	Fixture Description: 8-LF LED LINEAR			Are these fixtures located within a daylight zone?: Yes, applying exception for controls	
	Daylight sensing controls exception applied: Street-level lighting in Group A-2 or M occupancy			Do these fixtures require specific application lighting controls?: None required	
Other fixture type	B	E-3, E-3.1	LED	Retail	New
	Fixture Description: 8-FOOT LINEAR LED			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: None required				

Project Title	2550003925 AutoZone Mega HUB 10668 - 2021 WSEC	**Date**	Nov 24, 2025
Lighting Power Calculation	**ALTERATION - EXTERIOR LIGHTING (less than 20% replaced)**	**Compliance Verification**	**COMPLIES**

Exterior Lighting Power Allowance

Category	**Existing Lighting-Wattage Prior to Alteration**	**Total Watts Allowed**	**Proposed Total LPD**	**Compliance Status**
Existing Lighting	780	780	304	COMPLIES

Proposed Exterior Lighting Power Density

Fixture Type	**Fixture ID**	**New or Existing-to-Remain**	**Quantity of Fixtures, CLDs or Luminaires (#F)**	**Watts per Fixture, CLD or Luminaire (WpF)**	**Total Linear Feet (LF)**	**Watts per Linear Foot (WpLF)**	**Total Watts Proposed (#F x WpF) or (LF x WpLF)**
Individual Fixtures							
Other fixture type	J	New	6	24			144
Other fixture type	D	New	4	40			160

Project Title	2550003925 AutoZone Mega HUB 10668 - 2021 WSEC	**Date**	Nov 24, 2025
Proposed Fixtures Details	**ALTERATION - EXTERIOR LIGHTING (less than 20% replaced)**		

Fixture Type/Application	**Fixture ID**	**Location in Documents**	**Lamp Type**	**New or Existing-to-Remain**
Individual Fixtures				
Other fixture type	J	E-3, E-3.1	LED	New
	Fixture Description: WALL MOUNTED LED FIXTURE FOR EXIT ILLUMINATION			Do these fixtures require specific exterior lighting controls?: None required
Other fixture type	D	E-3, E-3.1	LED	New
	Fixture Description: WALL MOUNTED LED FIXTURE FOR NORMAL ILLUMINATION			Do these fixtures require specific exterior lighting controls?: None required

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

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Project:
2550003925 AutoZone Mega HUB 10668 - 2021 WSEC
4423 SOUTH MERIDIAN
PUYALLUP, WA 98373

Date: 2025-11-24

Applies	Code Section	Component	Compliance Information Required In Permit Documentation	Location in Documents	Building Department Notes
LIGHTING SCOPE					
	C103.1	Construction documents - General	For a shell & core or tenant space (first build-out) project, indicate if there is no lighting scope included in the project.		
YES	C103.1	Construction documents - General	For an alteration project, indicate if there is no lighting scope included in the project.	SHEET E3.0	
	C405.1	Lighting in sleeping units	Indicate general compliance path for permanently installed luminaires in sleeping units - vacancy controls & luminaire efficacy; or lighting power allowance.		
INTERIOR LIGHTING CONTROLS					
YES	C405.2	Interior lighting controls, general	For all interior lighting systems, indicate lighting control method (general lighting controls requirements or luminaire level lighting controls) on plans for all spaces and lighting zone(s) served; indicate exceptions applied to eligible spaces and light	SHEET E5.0	
YES	C405.2.3	Manual controls	Indicate on plans the method of manual lighting control, location of manual control device and the area or specific application it serves.	SHEET E3.0	
YES	C405.2.4 C405.2.4.1	Manual interior light reduction controls	For general lighting not controlled by occupancy sensors, indicate on plans which method of manual 50% lighting load reduction is provided, or indicate applicable exception.	SHEET E5.0	
YES	C405.2.1 C405.2.2	Method of automatic shut-off control	Indicate on plans the method of automatic shut-off control during unoccupied periods (occupancy sensor or time switch) for all lighting zones.	SHEET E5.0	
YES	C405.2.1	Occupant sensor controls	Indicate on plans all luminaires that are controlled by occupant sensor controls; indicate controls are configured to turn luminaires 100% off when the space is unoccupied	SHEET E3.0	
YES	C405.2.1 C405.2.1.1	Occupant sensor controls	Indicate if occupant sensor controls are configured to be manual on or automatic on to not more than 50% power; indicate spaces eligible for exception that allows automatic on to 100% power.	SHEET E3.0	
YES	C405.2.1.2	Occupant sensor controls - warehouse storage areas & library stacks	Indicate each aisleway within a warehouse or library stack space designated as a separate zone that is independently controlled	SHEET E3.0	

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YES			Indicate occupant sensors are configured to automatically reduce lighting power by ≥ 50% when the zone is unoccupied for over 20 minutes; indicate controls are configured to automatically restore lighting to full power when the zone or space is occupie	SHEET E3.0	
YES	C405.2.1.2	Occupant sensor controls - warehouse storage areas & library stacks	Indicate method of automatic 100% shut-off (occupancy sensor or time switch)	SHEET E3.0	
NA	C405.2.1.3	Occupant sensor controls - open plan office areas	For open plan office areas larger than 300 sf, indicate all general lighting control zones are ≤ 600 sf	SHEET E3.0	
NA	C405.2.1.3	Occupant sensor controls - open plan office areas	Indicate all general lighting control zones are provided with vacancy controls that are configured to reduce lighting power by not less than 80% when the zone is unoccupied and turn luminaires 100% off when the control zone is unoccupied; indicate unoccup	SHEET E3.0	
NA	C405.2.1.4	Occupant sensor controls - enclosed fire-rated stairwells	Indicate stairway lighting is provided with occupancy sensor controls that reduce lighting power by not less than 50% when the stairway in unoccupied and restore lighting to 100% when it is occupied.	SHEET E3.0	
NA	C405.2.1.5	Occupant sensor controls - corridors	Indicate corridor lighting is provided with occupancy sensor controls that reduce lighting power by not less than 50% when the corridor is unoccupied.	SHEET E3.0	
YES	C405.2.2.1	Automatic time switch controls	Indicate spaces on plans where time switch controls are configured to turn luminaires 100% off during unoccupied hours	SHEET E5.0	
YES			Indicate spaces on plans where time switch controls are configured to turn on lighting to full power versus 50% power	SHEET E5.0	
YES			Indicate locations of override switches on plans and the lighting zone(s) served; indicate that the area(s) served by each override switch does not exceed 5,000 sf.	SHEET E5.0	
NA	C405.2.5.2 C405.2.5.4	Daylight zones - Sidelit zones	Indicate primary and secondary sidelit daylight zone floor areas on plans	Sidelighting Daylight Controls Exempt; Ground Floor Mercantile Occupancy.	
NA			For small vertical fenestration assemblies (rough opening less than 10% of primary daylight zone floor area) where daylight responsive controls are not required, provide fenestration area to daylight zone floor area calculation(s).	Sidelighting Daylight Controls Exempt; Ground Floor Mercantile Occupancy.	
NA			Indicate toplit daylight zone floor areas on plans.	Exempt, site has no Skylights	

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WA. CORPORATE NUMBER: 1754
06/30/26

BRIAN C. OLLIGES
STATE OF WASHINGTON
24015980
REGISTERED
PROFESSIONAL ENGINEER
11/21/2025

PRCTI20251723

11/21/2025

65W2-REMODEL

E-7.0

BRIAN C. OLLIGES

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

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NA	C405.2.5 C405.2.5.1	Daylight responsive controls	Indicate on plans all lighting zone(s) served by daylight responsive controls; indicate that the area served by each control device does not exceed 2,500 SF	Exempt, site has no Skylights	
NA			Identify sidelit and toplit daylight zones that are not provided with daylight responsive controls and the exception(s) that apply	Exempt, site has no Skylights	
NA	C405.2.5.1	Daylight responsive controls	Indicate on plans that all daylight responsive controls provide continuous dimming to ≤15% full light output	Exempt, site has no Skylights	
NA	C405.2.5.1	Daylight responsive controls	Indicate that daylight responsive controls are configured to completely shut off all controlled lighting fixtures within the lighting zone.	Exempt, site has no Skylights	
NA	C405.2.6	Additional controls - Specific application lighting controls	Identify spaces and lighting fixtures on plans that require specific application lighting controls per this section.		
NA	C405.2.6, Items 1.1 thru 1.6	Additional lighting controls for display, accent & supplemental task lighting	Indicate on plans that all display, accent and supplemental task lighting fixtures are controlled independently from general area lighting		
NA	C405.2.6, Items 1.1 and 1.2	Display and accent lighting	For display and accent lighting fixtures, including lighting fixtures added per the C405.2.2.1 additional interior lighting power allowance, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupanc		
NA			For display case lighting fixtures, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch)		
NA	C405.2.6, Item 1.4	Supplemental task lighting	For supplemental task lighting fixtures including under-shelf or under-cabinet lighting, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch)		
NA	C405.2.6, Item 1.5	Lighting equipment for sale or demonstration	For lighting equipment for sale or demonstration, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch)		
NA			For exhibit lighting fixtures in galleries, museums and monuments, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch).		
NA	C405.2.6; Item 2	Permanently installed lighting in sleeping units	Indicate method of automatic off control of all installed luminaires in sleeping units (vacancy or captive key card control); also refer to Receptacles.		

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

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NA	C405.2.6, Item 3	Lighting for non-visual applications	For lighting serving non-visual applications (food warming and lighting for life support of nonhuman life forms), indicate on plans that lighting fixtures are controlled independently from both general area lighting and other lighting applications within		
NA			Indicate on plans separate manual controls for non-visual lighting application fixtures and applicable automatic lighting controls; indicate that the area served by each control device does not exceed 4,000 sf.		
NA			For task lighting that serves medical & dental purposes, indicate on plans that lighting fixtures are provided with manual control that is independent from general area lighting.		
YES	C405.2.6, Item 5	Means of egress lighting	Identify all means of egress lighting fixtures on plans including fixtures that function as both normal and emergency illumination	SHEET E3.0, E3.1, E3.2	
NA			Provide calculation for total lighting power density (LPD) of all means of egress lighting fixtures; if total LPD is ≥ 0.01 Watts/SF, indicate on plans the method of automatic shut-off control during unoccupied periods (emergency relay & occupancy sens	No Nightlights in Space.	
NA	C405.2.8	Advanced lighting controls in open office areas	For open office areas ≥ 5,000 sf, indicate which advanced lighting control system is provided (luminaire level lighting controls or networked lighting controls).		
	C405.2.8.1	Luminaire level lighting controls (LLLC)	Where LLLC are provided to comply with C405.2.8, or provided as the alternate lighting controls compliance method per C405.2, or to comply with C406.2.4.2 Enhanced digital interior lighting controls; provide sequence of operations that describes required		
NA	C405.2.8.1 C405.2.8.3	Luminaire level lighting controls (LLLC)	Indicate on plans that each LLLC luminaire is configured with occupancy sensing control functions (including C405.2.1.3 requirements for open office areas) and continuous full range dimming controls to brighten or dim lights based on occupancy and availab		
NA	C405.2.8.2	Networked lighting control (NLC)	Where NLC are provided to comply with C405.2.8, or to comply with C406.2.4.2 Enhanced digital interior lighting controls; provide sequence of operations that describes required NLC capabilities and performance parameters		
NA	C405.2.8.2 C405.2.8.3	Networked lighting control (NLC)	Indicate on plans that each NLC luminaire is individually addressable or document exception applied; Indicate on plans that each NLC luminaire is configured with occupancy sensing control functions (including C405.2.1.3 requirements for open office areas)		

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

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NA	C405.8.3	High end trim	Where high end trim is required, luminaires shall be initially configured to limit maximum lumen output or lighting power to 85% or to the target design lighting power.		
INTERIOR LIGHTING CONTROLS - ADDITIONAL ENERGY EFFICIENCY MEASURE					
NA	C406.2.4.2	Enhanced digital interior lighting controls	To comply with the enhanced interior lighting controls measure, provide calculations that demonstrate that lighting in ≥ 50% of the project floor area is provided with LLLC (C405.2.8.1) or NLC (C405.2.8.2) controls with high end trim (C405.2.8.3)		
NA			Where LLLC is provided, indicate on plans that each LLLC controlled luminaire is configured with integral sensors; where NLC is provided, indicate on plans that each NLC controlled luminaire is configured to be independently addressable; provide sequence		
NA	C406.2.4.1	Enhanced lighting controls in Group R-2	In Group R-2 occupancies, indicate on plans a master control at the main entrance to each dwelling or sleeping unit that switches off all lights and switched receptacles (may be two controls, one for lights and the other for receptacles); indicate on plan		
INTERIOR LIGHTING CONTROLS - LIGHTING LOAD MANAGEMENT MEASURE					
NA	C406.3.1	Interior lighting DDC controls & real-time demand response	To comply with the interior lighting load management measure, indicate automatic lighting controls are connected to a central DDC system capable of activation by an external utility signal; where utility real-time demand or pricing program exists, indicat		
NA	C406.3.1	Interior lighting power reduction controls	Indicate lighting controls are configured to gradually reduce by continuous dimming the interior general area lighting power by ? 20% in response to a peak demand signal; calculate the percentage of total building floor area served by load management ligh		
YES	C406.3.1	Warehouse & retail storage interior lighting power reduction controls	For warehouse & retail storage areas, indicate method of interior general area lighting power reduction (continuous dimming by ? 20%; switching off ? 25% of lighting power).	SHEET E5.0; Dimming	
EXTERIOR LIGHTING CONTROLS					
YES	C405.2.9 C405.2.9.1 C405.2.9	Exterior lighting controls	For all exterior lighting, indicate on plans automatic controls (either daylight sensing or astronomic time clock) configured to turn lighting off when daylight is present; or indicate exception applied.	SHEET E3.0, E5.0	
YES			For exterior building facade & landscape lighting, indicate that controls are configured to turn this lighting off when daylight is present for a minimum of 6 hours per night, or from 1 hour after closing to 1 hour before opening per the occupancy schedul	SHEET E3.0, E5.0	

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

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YES			Identify spaces eligible for lighting power exemption on plans and in WSEC interior lighting compliance reports; indicate the exception applied	SHEET E3.0	
NA			Identify lighting equipment eligible for lighting power exemption in fixture schedule and in WSEC interior lighting compliance reports; indicate the exception applied.		
NA	C405.1.1	Lighting in dwelling units	Include all permanently installed luminaires in dwelling units in interior lighting fixture schedule; include luminaire lighting power and efficacy (lumens)		
NA			Include all permanently installed luminaires in sleeping units in interior lighting fixture schedule; include luminaire lighting power or efficacy (lumens) depending on compliance path taken per C405.1		
NA			For all permenantly installed luminaires, indicate in interior lighting fixture schedule that rated lamp efficacy is ≥ 65 lumens/watt or luminaire efficacy is ≥ 45 lumens/watt.		
YES	C405.4.2	Interior lighting power allowance (LPA)	Indicate which interior LPA method is applied to the entire building (Building Area Method or Space-by-Space Method); indicate LPA applied is Space-by-Space Method for partial building projects and for buildings with unfinished spaces.	BUILDING AREA METHOD	
INTERIOR LIGHTING POWER CALCULATION - INDICATE COMPLIANCE PATH TAKEN					
YES	C405.4.2.1	Building Area Method	Demonstrate that total proposed interior lighting wattage per building does not exceed the sum of the maximum allowed wattages for all building area types; identify locations of building areas on plans; provide WSEC interior lighting compliance reports.	SHEET E3.0, E7.0, E7.1, E7.2	
NO	C405.4.2.2	Space-By-Space Method	Demonstrate that total proposed interior lighting wattage does not exceed the maximum allowed wattage; identify locations of space types on plans, including additional allowance retail display areas and areas with display, highlight and decorative lightin		
INTERIOR LIGHTING POWER & EFFICACY - ADDITIONAL ENERGY EFFICIENCY MEASURES					
NA	C406.2.3.1 C406.2.3.2	Reduced interior lighting power density (LPD)	To comply with the reduced interior LPD additional energy efficiency measure, demonstrate that total proposed interior LPD wattage is 10% or 20% lower than the total interior LPA wattage for the area the reduced lighting power measure is being applied to		

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	C406.2.3.3	Reduced interior LPD - Dwelling & sleeping unit lamp efficacy	To comply with reduced interior LPD additional energy efficiency measure for a building with dwelling units or sleeping units, indicate in interior lighting fixture schedule that all permenantly installed luminaires have a rated lamp efficacy ≥ 90 lume		
EXTERIOR LIGHTING POWER & EFFICACY					
YES	C405.5.2	Total connected exterior lighting power	Include all luminaires in exterior lighting fixture schedule; indicate fixture types, lamps, ballasts and rated watts per fixture; include rated wattage of lamps for luminaires with lamps connected directly to building power; include wattage limit of tran	SHEET E3.0, E3.1	
YES			Identify exterior lighting applications eligible for lighting power exemption on plans and in WSEC exterior lighting compliance reports; indicate the exception applied.	SHEET E3.1, E5.0	
YES	TABLE C405.5.3(1)	Exterior lighting zone	Indicate the building exterior lighting zone as specified by the AHJ.	SHEET E3.0, E3.1	
NA	C405.5.1	Exterior building grounds lighting	For building grounds lighting fixtures rated at greater than 25 watts, indicate in exterior lighting fixture schedule that fixtures have a rated lamp efficacy ≥ 100 lumens/watt or indicate the exception applied.		
EXTERIOR LIGHTING POWER CALCULATION					
YES	C405.5.3	Exterior lighting power allowance (LPA)	Demonstrate that total proposed exterior surface lighting wattage does not exceed the maximum allowed wattage (including base site allowance); identify locations of exterior surfaces on plans; provide WSEC exterior lighting compliance reports	SHEET E3.0, E3.1, E7.0, E7.1	
NA			Demonstrate that total proposed wattage for each additional allowance exterior surface type does not exceed the LPA for the surface type (includes base site allowance remaining after C405.5.3 LPA calculation); identify locations of additional allowance ex		
LIGHTING SYSTEMS ALTERATIONS					
YES	C503.7.1	New lighting systems and controls	Where new interior or exterior lighting systems are installed within an existing building site, indicate new lighting controls comply with C405.2; indicate commissioning of lighting controls (C408.4) and lighting system energy end-use metering (C409.3) wi	SHEET E3.0, E3.1, E5.0, E7.0, E7.1	
YES	C503.7.2	Interior lighting & parking garage lighting alteration	Include all new luminaires in interior lighting fixture schedule in plans, provide same lighting fixture information as for new construction per C405.4.1 and C405.4.2	SHEET E3.0, E3.1, E5.0	

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NA			For alterations that add or replace ≥ 20% of luminaires within an interior space or parking garage, indicate which interior lighting power allowance (LPA) method is applied to the alteration project area (Space-by-Space Method for partial building alte		
NA			Demonstrate that total proposed interior lighting wattage (including existing-to-remain lighting wattage) within the alteration project area does not exceed the maximum allowed wattage (Space-by-Space Method) or the sum of the maximum allowed wattages for		
NA	C503.7.2	Interior lighting alterations (LPA) - Add/replace	For alterations that add or replace ≤ 20% of luminaires in an interior space or parking garage, calculate total existing interior lighting wattage within the project area prior to the alteration		
YES	C503.7.2	Interior lighting alterations (LPD) - Add/replace	Demonstrate that total proposed interior lighting wattage (including existing-to-remain lighting wattage) within the alteration project area does not exceed the total existing interior lighting wattage prior to the alteration; provide WSEC interior lighti	SHEET E3.0, E3.1, E5.0	
YES			Include all new luminaires in exterior lighting fixture schedule in plans, provide same lighting fixture information as for new construction per C405.5.2	SHEET E3.0, E3.1, E5.0	
	C503.7.2	Exterior lighting alterations (LPA) - Add/replace &ge 20%	For alterations that add or replace ≥ 20% of exterior lighting wattage, indicate exterior lighting power allowance (LPA) calculated in the same manner as for new construction		
YES	C503.7.2	Exterior lighting alterations (LPD) - Add/replace &ge 20%	Demonstrate that total proposed exterior lighting wattage (including existing-to-remain lighting wattage) does not exceed the maximum allowed wattage; identify locations of surface types on plans, including additional allowance surfaces; provide WSEC exte	SHEET E3.0, E3.1, E5.0	
NA	C503.7.2	Exterior lighting alterations (LPA) - Add/replace	For alterations that add or replace ≤ 20% of exterior lighting wattage, calculate total existing exterior lighting wattage prior to the alteration		
NA	C503.7.2	Exterior lighting alterations (LPD) - Add/replace	Demonstrate that total proposed exterior lighting wattage (including existing-to-remain lighting wattage) does not exceed the total existing exterior lighting wattage prior to the alteration; identify locations of surface types on plans, including additio		
YES	C503.7.3	Interior lighting wiring & circuiting alterations	Where new wiring is installed to serve new interior luminaires and /or luminaires are relocated to a new circuit; indicate manual and automatic lighting controls are provided (as applicable) - manual & light reduction (C405.2.3 & C405.2.4); occupancy sens	SHEET E3.0, E3.1, E5.0	

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NA			For outdoor parking area (not parking garage) luminaires that are mounted ≤ 24 feet high and are rated at ≥ 40 watts, indicate that controls are configured to turn this lighting off when daylight is present; in addition, indicate controls are config		
YES			For exterior lighting other than building facade, landscape and outdoor parking area lighting, indicate controls are configured to reduce lighting power by at least 50% from 12am-6am, or 1 hour after closing to 1 hour before opening, or when no activity i	SHEET E3.0, E5.0	
	C405.2.10	Parking garage lighting control	Indicate all interior parking garage lighting fixtures are provided with time switch controls (per C405.2.2.1) or occupancy sensor controls (per C405.2.1.1); indicate controls are configured to reduce lighting power by at least 30% when no activity is det		
NA	C405.2.10	Parking garage lighting control - Perimeter lighting zones	For parking garage lighting fixtures located within 20 feet of perimeter wall openings, indicate on plans that daylight sensing controls are configured to reduce lighting power by at least 50%, or exception applied		
	C405.2.10	Parking garage lighting control - Eye adaptation lighting	For lighting fixtures at vehicle entrances & exits, indicate on plans that daylight sensing controls are configured to reduce lighting power by at least 50% from sunrise to sunset.		
NA	C405.3	Lighting for plant growth and maintenance	For permanently installed lighting fixtures used specifically for plant growth and maintenance, indicate that the photosynthetic photon efficacy measured at the lamp or luminaire is ≥ 1.7 i_2?mol/J in greenhouses and ≥ 1.9 i_2?mol/J in all other indoo		
NA	C405.5.4	Exterior gas-fired lighting appliances	Indicate ignition system is a method other then continuously burning pilot light.		
INTERIOR & EXTERIOR LIGHTING CONTROL CIRCUITS					
YES	C405.2.7	Area controls - Master control switches	Indicate location(s) of lighting master control switch(es) intended to control multiple independent switches; a circuit breaker may not be used as a lighting master control switch	SHEET E3.0	
YES			Verify the maximum power controlled by any single lighting control switch or automatic control device is no more than a 20 amp circuit loaded to ? 80%.	SHEET E3.0	
INTERIOR LIGHTING POWER & EFFICACY					
YES	C405.4.1	Total connected interior lighting power	Include all luminaires in interior lighting fixture schedule; indicate fixture types, lamps, ballasts and rated watts per fixture; include rated wattage of lamps for luminaires with lamps connected directly to building power; include wattage limit of tran	SHEET E7.0,E7.1	

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WA. CORPORATE NUMBER: 1754
06/30/26

BRIAN O. OLLIGES 11/21/2025
STATE OF WASHINGTON
24015980
REGISTERED PROFESSIONAL ENGINEER

PRCTI20251723

11/21/2025

65W2-REMODEL

E-7.1

BRIAN C. OLLIGES