Exhibit A

SHOWER AND RESTROOM BUILDINGS A & B

MISSOULA COUNTY - TSOS

1975 WEST BROADWAY
MISSOULA, MT 59808

LICENSED ARCHITECT
TODD E. SCHAPER
MISSOULA, MT
STATE OF MONTANA

encompass
design + architecture
inc

1535 liberty lane
suite 110b
missoula, montana
59808
phone: 406.540.4437

REST ROOM BUILDINGS FOR:
TEMPORARY SAFE OUTDOOR SPACE
1975 BROADWAY, MISSOULA MT 59808

PLAN REVIEW: 07.11.2025
BID SET: 07.11.2025
IFC SET: 06.26.2026

COVER SHEET

edinc Job #: 24.119

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Exhibit A

RELOCATED SHOWER AND RESTROOM BUILDINGS A & B
MISSOULA COUNTY - TSOS

1975 BROADWAY
MISSOULA, MT 59808

DIRECTORY

OWNER: MISSOULA COUNTY FACILITIES DIRECTOR
CONTACT: JASON HAUSER
PHONE: 406.258.4756
EMAIL: jhauser@missoulacounty.us

ARCHITECT: ENCOMPASS DESIGN INC.
CONTACT: TODD SCHAPER, PRINCIPAL ARCHITECT
PHONE: 406.540.4437
1535 LIBERTY LANE, SUITE 110B MISSOULA, MT 59808

STRUCTURAL ENGINEER: DCI ENGINEERS
CONTACT: MARK BRADFORD
PHONE: 406.532.4350
131 W MAIN, MISSOULA, MT 59802

ELECTRICAL ENGINEER: MORRISON MAIERLE
CONTACT: TREVOR LARSON
PHONE: 406.542.4871
1055 MOUNT AVE, MISSOULA, MT 59801

MECHANICAL ENGINEER: WESTERN MT ENGINEERING
CONTACT: JULIE ALDEGARIE, PE
PHONE: 406.721.5776
1527 SOUTH RUSSELL, MISSOULA, MT 59801

GOVERNING CODES

ALL CONSTRUCTION IN ASSOCIATION WITH THIS PROJECT SHALL COMPLY WITH THE CITY & STATE ADOPTED CODES LISTED BELOW:

- 2021 INTERNATIONAL BUILDING CODE
- 2021 INTERNATIONAL ENERGY CONSERVATION CODE
- 2021 UNIFORM PLUMBING CODE
- 2021 INTERNATIONAL MECHANICAL CODE
- 2020 NATIONAL ELECTRICAL CODE
- 2021 INTERNATIONAL FUEL GAS CODE
- ARM MODIFICATIONS TO THE ADOPTED BUILDING CODES
- ICC A117.1 - ACCESSIBILITY, 2017 EDITION

PROJECT INFORMATION

LEGAL ADDRESS:
S17, T13 N, R19 W, LOT 2, C.O.S. 4878
TRINITY MULLAN SUBDIVISION.
GEOCODE: 04-2200-17-2-14-03-0000

SITE INFO:

• SITE AREA:	~17.11 ACRES
• SITE ZONING:	M1-R2, CITY OF MISSOULA
• MAX BUILDING HEIGHT:	50'-0"
• ACTUAL BUILDING HEIGHT:	12'-0"
• PARKING PROVIDED	EXISTING PARKING TO REMAIN. NO NEW PARKING PROPOSED FOR THIS WORK.
• SETBACKS	
- FRONT SETBACK:	0'-0"
- REAR SETBACK:	25'-0"
- SIDE SETBACK:	NONE
• LANDSCAPE COVERAGE:	EXISTING COMPLIANT LANDSCAPE. NO NEW LANDSCAPE PROPOSED FOR THIS WORK.

BUILDING CODE INFORMATION

BUILDING OCCUPANCY GROUP:	U (SERVING 30 INDIVIDUAL R-1 SPACES LESS THAN 100 S.F. EACH)
CONSTRUCTION TYPE:	TYPE V-B
FIRE SPRINKLER:	NON SPRINKLERED
NUMBER OF STORIES:	1 MAX **(1 ACTUAL)**
BUILDING HEIGHT:	40' MAX **(12'-0" +/- ACTUAL)**

BUILDING AREA:

MAX:	9,000 SF
ACTUAL:	
BUILDING A	421 SF
BUILDING B	421 SF
TOTAL	**842 SF**

OCCUPANT LOAD:

ACCESSORY (300 SF / OCC.):	421 SF / 300 =	1.4
	421 SF / 300 =	1.4
TOTAL:	**3 OCCUPANTS**	

PLUMBING FIXTURE COUNTS CHAP 2902.1.1 IBC:
PRESUME 30 OCCUPANTS (SHELTER UNITS ONLY)
3 WC, 3 LAVS, 4 SHOWERS REQUIRED.
6 WC, 6 LAVS, 2 SHOWERS PROVIDED FOR WOMEN.
3 WC, 3 LAVS, 2 SHOWERS PROVIDED FOR MEN.

GENERAL PROJECT NOTES:

A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB SITE CONDITIONS BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO ENCOMPASS. USE WRITTEN DIMENSIONS. DO NOT SCALE DRAWINGS. WHERE NO DIMENSION IS PROVIDED, CONSULT ENCOMPASS FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
B. PLANS AND SPECIFICATIONS ARE TO BE TAKEN AS ONE DOCUMENT. ITEMS INCLUDED IN ONE AND NOT IN THE OTHER SHALL BE CONSIDERED AS IF IN BOTH. WHERE A CONFLICT EXISTS BETWEEN PLANS AND SPECIFICATION THE MORE STRINGENT REQUIREMENT SHALL PREVAIL.
C. ALL WORK TO BE PERFORMED UNDER THIS CONTRACT SHALL INCLUDE THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT, AND SUPERVISION TO PERFORM THE WORK AND CONSTRUCTION FOR THE PROJECT AS INDICATED IN THESE DOCUMENTS AND THE SPECIFICATIONS.
D. THE DESIGN, ADEQUACY AND SAFETY OF ERECTING BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HAS NOT BEEN CONSIDERED BY AN ENGINEER.
E. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE COMPLETION OF WALLS AND FINISH MATERIALS. GENERAL CONTRACTOR TO COORDINATE ARCHITECTURAL DRAWINGS WITH ALL TRADES.
F. GENERAL CONTRACTOR TO PROVIDE SECURITY AND PROTECTION FACILITIES THAT INCLUDE, BUT ARE NOT LIMITED TO; BARRICADES, WARNING SIGNS AND LIGHTING PROTECTION DURING ALL PHASES OF THE PROJECT.
G. ALL MATERIALS & FINISHES ARE TO BE AS SPECIFIED, OR APPROVED EQUAL, SEE SPECS.
H. SUBSTITUTIONS SHALL BE BY APPROVAL PRIOR TO THE BID; SEE SUBSTITUTION REQUEST SPECIFICATION. ALL SUBSTITUTIONS MUST BE APPROVED BY THE ARCHITECT/OWNER PRIOR TO COMMENCING WITH ANY FABRICATION AND/OR INSTALLATION.
I. PROVIDE (1) YEAR WARRANTY FOR ALL WORKMANSHIP.
J. PRIOR TO BEGINNING ANY WORK, CONTRACTOR TO OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES NECESSARY FOR OCCUPANCY BY TENANT U.N.O. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE CODE, LAWS, RULES, AND REGULATIONS OF ALL CONSTITUTED AUTHORITIES HAVING JURISDICTION. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF THE APPLICABLE BUILDING CODES IDENTIFIED ON CODE PLANS.
K. CONTRACTOR SHALL FURNISH OWN TRASH DISPOSAL AS WELL AS A CONSTRUCTION WASTE MANAGEMENT PLAN. WASTE DISPOSAL IN LANDFILLS SHALL BE MINIMIZED AND AS MANY OF THE MATERIALS AS ECONOMICALLY FEASIBLE SHALL BE REUSED, SALVAGED, OR RECYCLED. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A CONSTRUCTION WASTE MANAGEMENT PLAN FOR THIS CONTRACT. WHICH INCLUDES BUT IS NOT LIMITED TO, CONCRETE, ASPHALT AND WOOD.
L. CONTRACTOR SHALL BE HELD LIABLE FOR ALL DAMAGE TO THE PROPERTY, BUILDING AND ALL "EXISTING" ELEMENTS BY HIS/HER PERSONNEL OR SUBCONTRACTORS. ANY DAMAGE SHALL BE REPORTED TO ENCOMPASS IMMEDIATELY. CONTRACTOR SHALL BE RESPONSIBLE FOR RETURNING ITEMS TO ITS ORIGINAL CONDITION.
M. THE CONTRACTOR SHALL FOLLOW SIZES AS INDICATED IN THE CONSTRUCTION DOCUMENTS AND SHALL FOLLOW DETAIL DRAWINGS IN PREFERENCE TO GENERAL DRAWINGS. DO NOT SCALE THE DRAWINGS.
N. WHERE IT IS OBVIOUS THAT A DRAWING ILLUSTRATES ONLY A PART OF A GIVEN WORK OR OF A NUMBER OF ITEMS, THE REMAINDER SHALL BE DEEMED REPETITIVE AND SO CONSTRUCTED.
O. THE USE OF THESE DOCUMENTS SHALL BE RESTRICTED TO THE ORIGINAL PROJECT SITE FOR WHICH THEY WERE PREPARED. PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. ANY PUBLICATION, REUSE OR REPRODUCTION BY ANY METHOD IN WHOLE OR IN PART IS PROHIBITED. OWNERSHIP AND TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF ENCOMPASS DESIGN INC.. VISUAL CONTACT WITH THESE PLANS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.
P. ANY OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS WITHIN THESE DOCUMENTS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH ANY AFFECTED WORK.
Q. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION OF OTHER TRADES, INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, LANDSCAPE, ACOUSTIC, PLUMBING, LOW VOLTAGE (SECURITY, CONTROLS, ETC) AND STRUCTURAL COMPONENTS AS WELL AS THOSE ITEMS SUPPLIED BY THE OWNER. GENERAL CONTRACTORS AND SUBCONTRACTORS TO BRING ANY OMISSIONS OR CONFLICTS TO THE ATTENTION OF ENCOMPASS PRIOR TO BID FOR APPROPRIATE RESOLUTION.
R. THESE DOCUMENTS ARE THE PROPERTY OF ENCOMPASS AND ARE NOT TO BE REPRODUCED OR COPIED. THESE DRAWINGS ARE TO BE USED FOR THIS PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN AND ARE NOT TO BE USED ON ANY OTHER PROJECT.
S. THESE DOCUMENTS REPRESENT THE DESIRED RESULT OF CONSTRUCTION. THE METHODS OF SUCH CONSTRUCTION AND THE ASSOCIATED RISKS INVOLVED SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
T. DRAWINGS CONTAINED WITHIN THESE DOCUMENTS ARE ABBREVIATED IN NATURE. THE CONSTRUCTION DOCUMENTS SHOW THE DESIGN INTENT OF THE PROJECT AND MAY NOT SHOW MINOR DETAILS OF PROPOSED INSTALLATION OR MFR INSTALLATION INSTRUCTIONS. THE INCLUSION OF THESE MINOR DETAILS IS IMPLIED TO PROVIDE A COMPLETE DESIGN FOR THE PROJECT AND ARE TO BE INCLUDED AS PART OF A BID. THE CONTRACTOR IS EXPECTED TO USE QUALITY & ACCEPTABLE INDUSTRY STANDARDS OF CONSTRUCTION, PRACTICES AND TECHNIQUES.
U. CONTRACTOR RESPONSIBLE FOR CALLING LOCATES PRIOR TO COMMENCEMENT OF WORK, ALL SHOWN GRAPHICALLY.
V. PROVIDE ALL NECESSARY SETBACKS AND SAFETY MEASURES FOR CONSTRUCTION.

VICINITY MAP:

SHEET LIST

PROJECT SUMMARY

RELOCATION OF TWO EXISTING PREFABRICATED RESTROOM/SHOWER FACILITIES FROM THE JOHNSON ST SHELTER LOCATION TO THE TEMPORARY SHELTER LOCATION. OWNER TO TRANSPORT PREFABRICATED FACILITIES AND STAGE AT THE SITE, IN PREPARATION FOR THE PROJECT. CONTRACTOR SHALL DISCONNECT THE EXISTING UTILITIES FROM THE RESTROOM TRAILER UNITS, AND REMOVE THE EXISTING RESTROOM TRAILER UNITS FROM THE SITE AND COORDINATE TRANSPORT WITH THE OWNER. CONTRACTOR TO REMOVE EXISTING ASPHALT AND SUB-GRADE AS NEEDED, AND PLACE PREFABRICATED RESTROOM FACILITIES ON A PERMANENT CONCRETE FOUNDATION. EXTEND AND CONNECT THE EXISTING UTILITIES AND PROVIDE NOTED UPDATES TO THE PREFABRICATED RESTROOM.

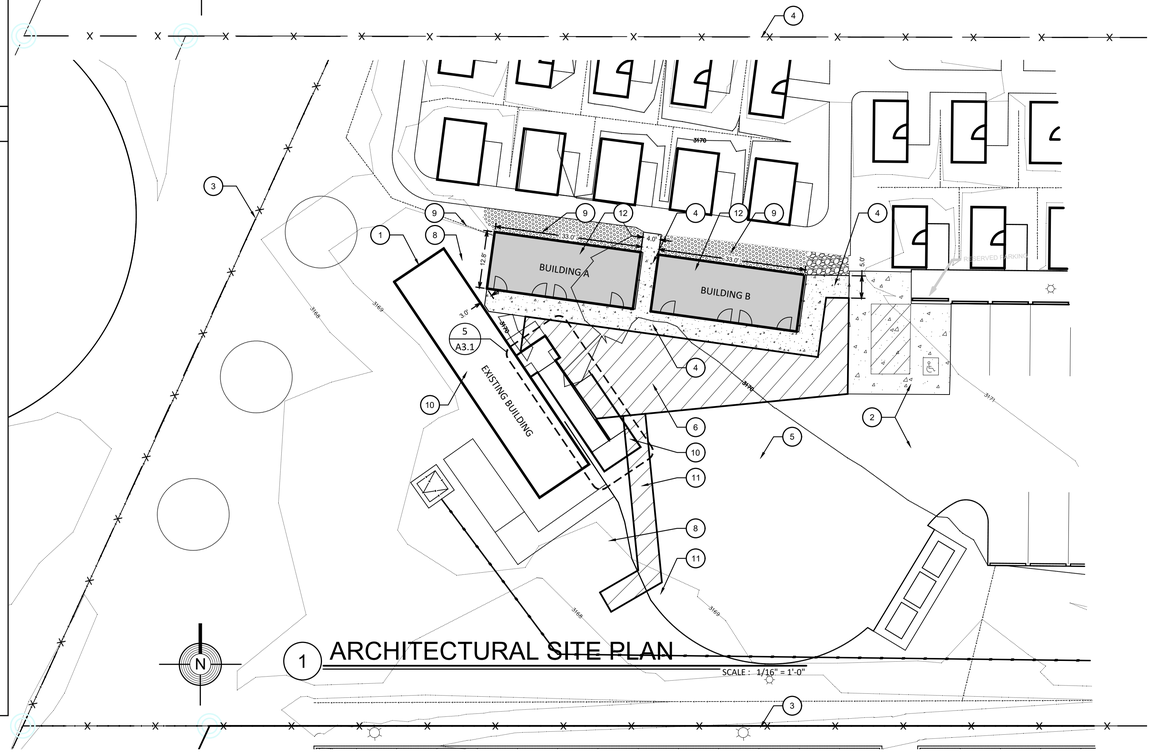
COORDINATE CONNECTIONS TO THE EXISTING STUBBED UTILITIES AND PROVIDE NECESSARY SETBACK AND SAFETY MEASURES FOR CONSTRUCTION.

(#) KEYED NOTES - THIS SHEET

1. BUILDING LOCATION & PROPERTY LINES ARE APPROXIMATE. FIELD VERIFY CONDITIONS. SEE CIVIL DRAWINGS.
2. EXISTING PARKING. SEE CIVIL DRAWINGS.
3. EXISTING GALVANIZED CHAIN LINK FENCE.
4. INSTALL 4" CONCRETE SLAB ON GRADE BETWEEN RELOCATED BUILDINGS. TIE INTO EXISTING GRADE, 2% MAX SLOPE. SLOPE CONCRETE TO DRAIN AWAY FROM THE BUILDINGS. SEE CIVIL DRAWINGS FOR DETAIL.
5. EXISTING ASPHALT PAVING TO REMAIN.
6. PATCH BACK ASPHALT PAVING, SEE CIVIL DRAWINGS FOR EXTENT OF SITE WORK.
7. NOT USED.
8. EXISTING LANDSCAPE TO REMAIN.
9. PROVIDE POSITIVE DRAINAGE AROUND NEW BUILDINGS. SEE CIVIL DRAWINGS.
10. EXISTING BUILDING AND PORTIONS OF THE RAMP TO REMAIN. REVISE RAMP TO INCREASE THE LANDING AND RUN THE RAMP PARALLEL WITH THE EXISTING RAMP RUN. INSTALL PER ALL ACCESSIBLE REQUIREMENTS. SEE CIVIL FOR GRADING.
11. COORDINATE WITH CIVIL, ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ROUTING OR CONNECTIONS TO EXISTING UTILITIES. GENERAL CONTRACTOR TO FIELD VERIFY ROUTING AND REMOVE AND PATCH BACK ANY MATERIALS DEMOED.
12. (E) BUILDING W/ TOILET AND SHOWER FACILITIES RELOCATED TO CURRENT LOCATION. GENERAL CONTRACTOR IS RESPONSIBLE FOR RIGGING, HOISTING, TRANSPORTATION AND SETTING OF BUILDING ON CONCRETE FOUNDATION.

D1. APPROXIMATE AREA OF DISTURBANCE, REMEDIATE CONDITIONS BACK TO ORIGINAL MATERIAL AND DRAINAGE. SEE CIVIL DRAWINGS FOR EXTENT OF WORK.
D2. REMOVE EXISTING GRADE AND SUBGRADE AS NECESSARY FOR NEW FOOTING AND FOUNDATIONS ON COMPACTED STRUCTURAL FILL. REMOVE CONCRETE / GRAVEL WALKS AND SUBGRADE AS NECESSARY FOR CONSTRUCTION OF FOUNDATION AND PLACEMENT OF RELOCATED BUILDINGS. SEE CIVIL DRAWINGS.
D3. SUBCONTRACTOR TO COORDINATE ROUTING OF ELECTRICAL FROM SERVICE TO BUILDING LOCATIONS, SEE ELECTRICAL AND CIVIL DRAWINGS. VERIFY EXISTING CONDITIONS.
D4. REMOVE AND RETAIN (E) RAMP LANDING AND RAMP TO ALLOW FOR WORK. EXTEND LANDING AND REINSTALL (E) RAMP COMPONENTS. REINSTALLED RAMP TO MEET CURRENT ACCESSIBLE REQUIREMENTS. CONTRACTOR TO FIELD VERIFY DIMENSIONS. KEEP RELOCATED RAMP CLEAR OF FIRE ACCESS TURN AROUND. SEE PLANS.
D5. REMOVE EXISTING TRAILER TOILET FACILITIES. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DISCONNECTION, TERMINATION, CAPPING AND UTILITIES FOR NEW WORK. REMOVED FACILITIES TO BE RETAINED BY OWNER.

1 ARCHITECTURAL - DEMO SITE PLAN
SCALE : 1/16" = 1'-0"



1 ARCHITECTURAL SITE PLAN
SCALE : 1/16" = 1'-0"

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PROJECT INFO & SITE PLAN

edinc Job #: 24.119

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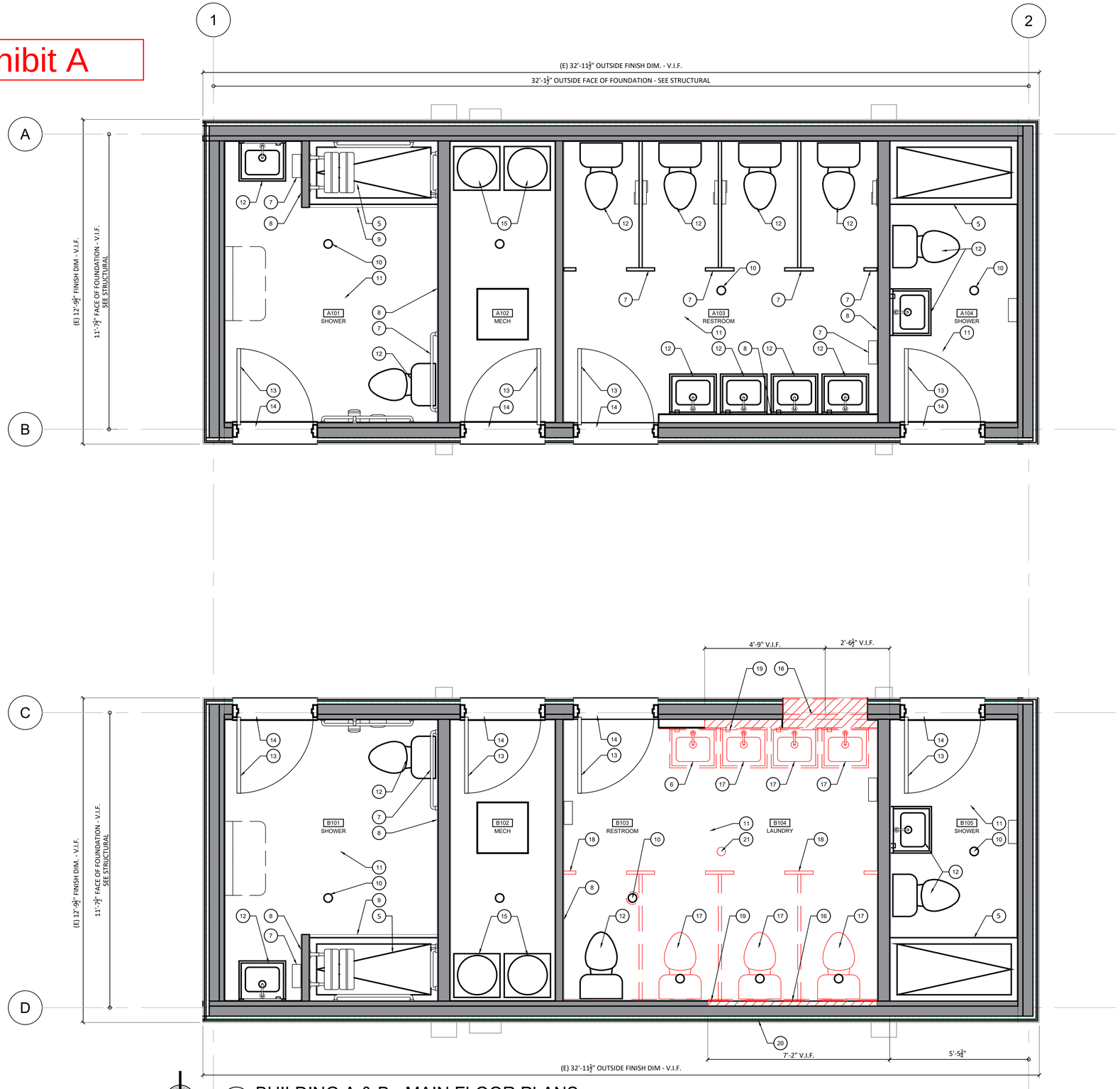
Exhibit A



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1 BUILDING A & B - MAIN FLOOR PLANS

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

RELOCATED EXISTING BUILDINGS -
EXISTING BUILDING DESIGN BY OTHERS

GENERAL NOTES - BUILDING PLANS

A. USE WRITTEN DIMENSIONS. DO NOT SCALE DRAWINGS. WHERE NO DIMENSION IS PROVIDED, CONSULT ENCOMPASS FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
B. DIMENSIONS ARE FROM FACE CONCRETE AND FACE OF STUD AT NEW WALLS. SEE WALL TYPES FOR ADDITIONAL WALL ASSEMBLY INFORMATION.
C. COORDINATE ALL STRUCTURAL MEMBERS AND LOCATIONS, SIZES WITH EXISTING CONDITIONS.
D. EXISTING ACCESSORIES (PT, TP, SOAP, MIRRORS, HOOKS, ETC) TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.
E. USE PAPERLESS OR WATER RESISTANT GWB IN ALL WET ROOMS.
F. SEE DOOR AND WINDOW SCHEDULES.
G. COORDINATE ALL FINAL PLUMBING FIXTURE LOCATIONS WITH PLUMBING DRAWINGS.
H. COORDINATE ALL FINAL POWER, ELECTRICAL FIXTURE LOCATIONS AND DATA LOCATIONS WITH BUILDING DRAWINGS.
I. SHUTTING OFF OF UTILITIES TO BE COORDINATED WITH UTILITY COMPANIES AND THE OWNER. PROVIDE THE OWNER WITH A 72 HOURS ADVANCED NOTICE OF UTILITY SHUT DOWNS.

(#) KEYED NOTES - THIS SHEET

1. NOT USED
2. NOT USED.
3. NOT USED.
4. NOT USED.
5. (E) PLUMBING FIXTURE RETAINED IN PLACE.
6. (E) PLUMBING FIXTURE RETAINED TO BE RE-INSTALLED, SEE PLUMB.
7. (E) TOILET ACCESSORY REMOVE FOR FRP INSTALLATION. REINSTALL TOILET ACCESSORY.
8. REMOVE (E) TRIM, ACCESSORIES AND PREPARE WALL FOR FRP.
9. REMOVE (E) TRANSITION RAMP AT SHOWER UNIT. REINSTALL OVER SHEET FLOORING.
10. REMOVE (E) FLOOR DRAIN. PREP FLOOR FOR NEW FLOOR DRAIN. COORDINATE WITH NEW FLOORING INSTALLATION WHERE OCCURS.
11. (E) SHEET FLOORING HAS BEEN REMOVED, REMOVE (E) SUBFLOOR.
12. REMOVE (E) PLUMBING FIXTURE FOR FRP AND FLOORING INSTALL. REINSTALL PLUMBING FIXTURE (PROVIDE NEW SUPPLY LINES, TOILET SEAL, RING,ETC.)
13. (E) DOOR TO REMAIN. REMOVE (E) HARDWARE.
14. ADJUST (E) OPENING TO ENSURE PROPER DOOR OPERATION.
15. (E) HOT WATER TANKS TO REMAIN, COORDINATE WITH (E) EQUIPMENT AS NECESSARY FOR NEW WORK AND CONNECTIONS.
16. REMOVE A PORTION OF THE (E) EXTERIOR AND INTERIOR WALLS FOR NEW OPENING.
17. REMOVE (E) PLUMBING FIXTURE. PLUG HOLES IN CLT FLOOR.
18. REMOVE (E) TOILET PARTITION.
19. REMOVE (E) FRP THIS WALL.
20. REMOVE PORTION OF THE EXTERIOR WALL FOR NEW VENT. SEE MECHANICAL.
21. REMOVE PORTION OF (E) CLT FLOOR FOR NEW FLOOR DRAIN. PREP OPENING AS NECESSARY FOR FLOORING TRANSITION.

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DEMO FLOOR PLANS

edinc Job #: 24.119

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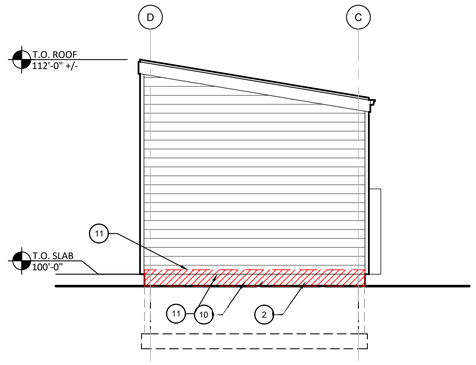
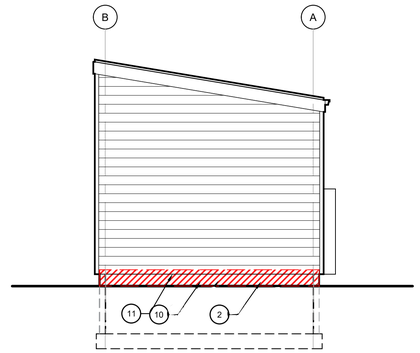
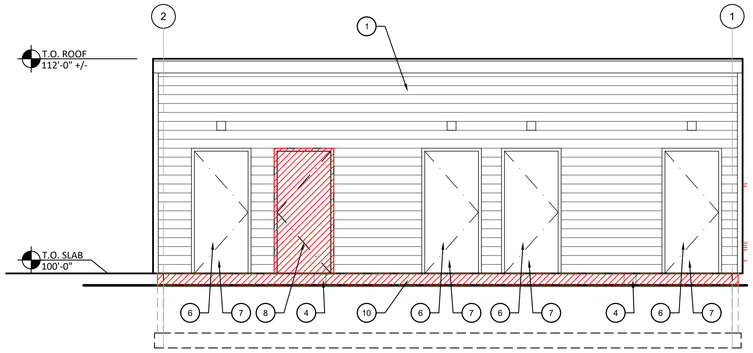
Exhibit A



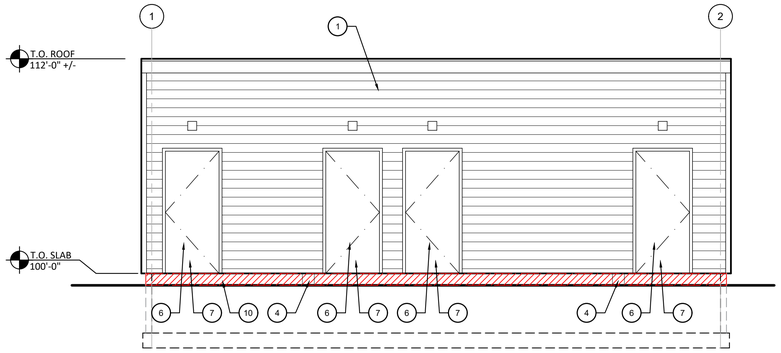
1 BLDG A - EXTERIOR ELEVATION
SCALE : 1/4" = 1'-0"



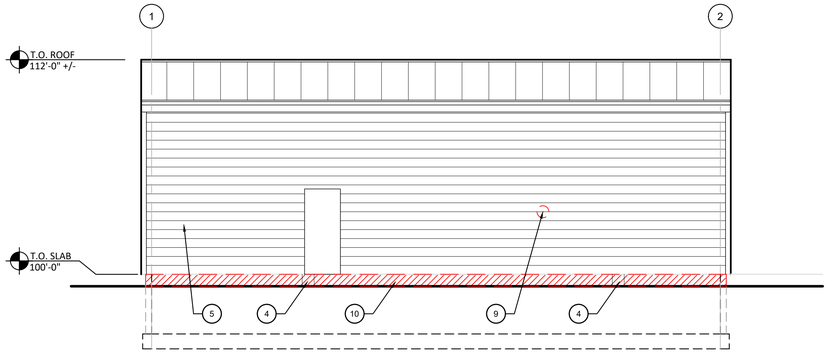
2 BLDG B - EXTERIOR ELEVATION
SCALE : 1/4" = 1'-0"



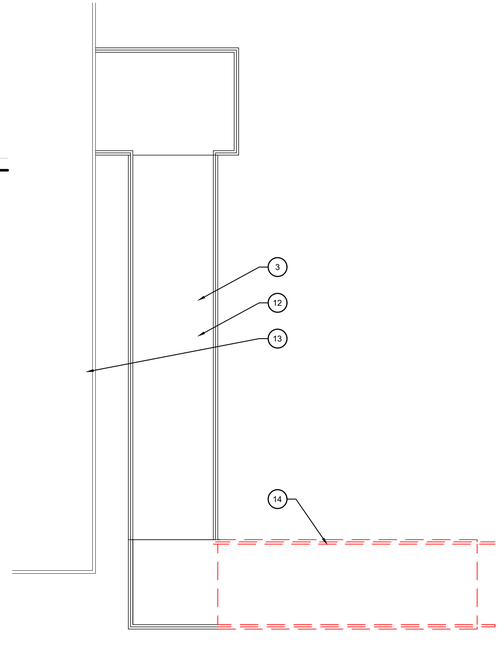
3 BLDG B - EXTERIOR ELEVATION
SCALE : 1/4" = 1'-0"



4 BLDG A - EXTERIOR ELEVATION
SCALE : 1/4" = 1'-0"



5 BLDG B - EXTERIOR ELEVATION (BLDG A - SIM)
SCALE : 1/4" = 1'-0"



6 RAMP - DEMO PLAN
SCALE : 1/4" = 1'-0"

GENERAL NOTES - BUILDING PLANS

A. USE WRITTEN DIMENSIONS. DO NOT SCALE DRAWINGS. WHERE NO DIMENSION IS PROVIDED, CONSULT ENCOMPASS FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
B. DIMENSIONS ARE FROM FACE CONCRETE AND FACE OF STUD AT NEW WALLS. SEE WALL TYPES FOR ADDITIONAL WALL ASSEMBLY INFORMATION.
C. COORDINATE ALL STRUCTURAL MEMBERS AND LOCATIONS, SIZES WITH EXISTING CONDITIONS.
D. EXISTING ACCESSORIES (PT, TP, SOAP, MIRRORS, HOOKS, ETC) TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.
E. USE PAPERLESS OR WATER RESISTANT GWB IN ALL WET ROOMS.
F. SEE DOOR AND WINDOW SCHEDULES.
G. COORDINATE ALL FINAL PLUMBING FIXTURE LOCATIONS WITH PLUMBING DRAWINGS.
H. COORDINATE ALL FINAL POWER, ELECTRICAL FIXTURE LOCATIONS AND DATA LOCATIONS WITH BUILDING DRAWINGS.
I. SHUTTING OFF OF UTILITIES TO BE COORDINATED WITH UTILITY COMPANIES AND THE OWNER. PROVIDE THE OWNER WITH A 72 HOURS ADVANCED NOTICE OF UTILITY SHUT DOWNS.

KEYED NOTES - THIS SHEET

1. (E) BUILDING W/ TOILET AND SHOWER FACILITIES RELOCATED TO CURRENT LOCATION. GENERAL CONTRACTOR IS RESPONSIBLE FOR RIGGING, HOISTING, TRANSPORTATION AND SETTING OF BUILDING ON CONCRETE FOUNDATION. SEE SITE PLAN AND CIVIL DRAWINGS FOR BUILDING LAYOUT.
2. REMOVE EXISTING GRADE AND SUBGRADE AS NECESSARY FOR NEW COMPACTED STRUCTURAL FILL AND FOOTING/FOUNDATIONS.
3. REMOVE AND RETAIN (E) RAMP LANDING AND RAMP TO ALLOW FOR NEW WORK. EXTEND LANDING AND REINSTALL (E) RAMP COMPONENTS. REINSTALLED RAMP TO MEET CURRENT ACCESSIBLE REQUIREMENTS. CONTRACTOR TO FIELD VERIFY DIMENSIONS. KEEP RELOCATED RAMP CLEAR OF FIRE ACCESS TURN AROUND. SEE PLANS.
4. PROVIDE BLOCK OUT FOR (E) STRUCTURE. CONTRACTOR TO COORDINATE SIZE IN FIELD.
5. COORDINATE ROUTING OF UNDERGROUND UTILITIES AND CONNECTIONS TO (E) BUILDINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ROUTING OF UTILITY EXTENSIONS. REMEDIATE, REPLACE OR REPAIR SURFACES (LAWN, LANDSCAPING, GRAVEL, PAVING, ETC.) THAT IS DAMAGED DURING CONSTRUCTION.
6. (E) DOOR TO REMAIN, REMOVE (E) HARDWARE.
7. ADJUST (E) OPENING TO ENSURE PROPER DOOR OPERATION.
8. REMOVE A PORTION OF THE (E) EXTERIOR AND INTERIOR WALLS FOR NEW OPENING.
9. REMOVE PORTION OF THE EXTERIOR WALL FOR NEW VENT. SEE MECHANICAL.
10. REMOVE (E) RIGID INSULATION AND FASTENERS TO ALLOW FOR INSTALLATION OF STRUCTURE ON FOUNDATION WALL. ADJUST AND RETAIN (E) METAL FLASHING.
11. REMOVE PORTION OF SIDING TO ALLOW FOR CONCRETE CURB INSTALL, SEE CIVIL.
12. REMOVE ALL COMPONENTS OF THE SLOPED PORTION OF (E) RAMP. RETAIN TO BE REINSTALLED IF COMPONENTS FIT THE REQUIRED SLOPES AND LAYOUT.
13. (E) BUILDING.
14. RETAIN PORTION OF THE (E) RAMP LANDINGS, RAMP, GUARDRAIL AND HANDRAILS.

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DEMO EXTERIOR ELEVATIONS, RAMP

edinc Job #: 24.119

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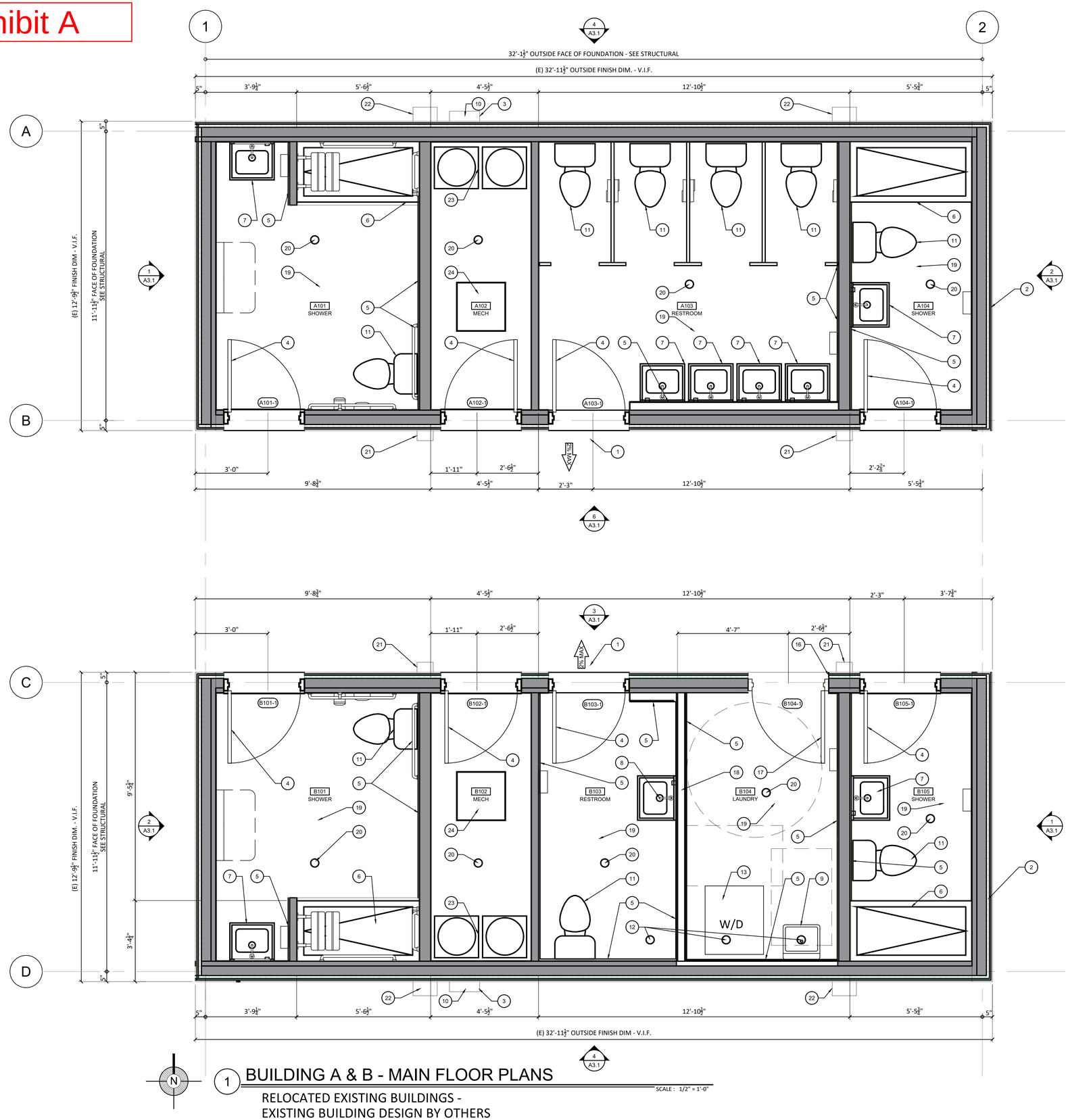
D3.1

Exhibit A



1 BUILDING A & B - MAIN FLOOR PLANS

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

RELOCATED EXISTING BUILDINGS -
EXISTING BUILDING DESIGN BY OTHERS

GENERAL NOTES - BUILDING PLANS

A. USE WRITTEN DIMENSIONS. DO NOT SCALE DRAWINGS. WHERE NO DIMENSION IS PROVIDED, CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY (E) CONDITIONS AND CONSULT ENCOMPASS FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
B. DIMENSIONS ARE FROM FACE CONCRETE AND FACE OF STUD AT NEW WALLS. SEE WALL TYPES FOR ADDITIONAL WALL ASSEMBLY INFORMATION.
C. COORDINATE ALL STRUCTURAL MEMBERS AND LOCATIONS, SIZES WITH EXISTING CONDITIONS.
D. EXISTING ACCESSORIES (PT, TP, SOAP, MIRRORS, HOOKS, ETC) TO REMAIN IN PLACE.
E. USE PAPERLESS OR WATER RESISTANT GWB IN ALL WET ROOMS.
F. SEE DOOR AND WINDOW SCHEDULES.
G. COORDINATE ALL FINAL PLUMBING FIXTURE LOCATIONS WITH PLUMBING DRAWINGS.
H. COORDINATE ALL FINAL POWER, ELECTRICAL FIXTURE LOCATIONS AND DATA LOCATIONS WITH BUILDING DRAWINGS.
I. SHUTTING OFF OF UTILITIES TO BE COORDINATED WITH UTILITY COMPANIES AND THE OWNER. PROVIDE THE OWNER WITH A 72 HOURS ADVANCED NOTICE OF UTILITY SHUT DOWNS.

1 KEYED NOTES - THIS SHEET

1. 4" CONCRETE SLAB ON GRADE W/ BROOM FINISH, SLOPE TO DRAIN AWAY FROM BUILDING. MAINTAIN ACCESSIBLE SLOPES (MAX CROSS SLOPE 2%). SEE CIVIL DRAWINGS FOR EXTENTS OF CONCRETE SIDEWALKS AND ASPHALT PATCH BACK.
2. (E) BUILDING W/ TOILET AND SHOWER FACILITIES RELOCATED TO CURRENT LOCATION. GENERAL CONTRACTOR IS RESPONSIBLE FOR RIGGING, HOISTING, TRANSPORTATION AND SETTING OF BUILDING ON CONCRETE FOUNDATION. SEE SITE PLAN AND CIVIL DRAWINGS FOR BUILDING LAYOUT AND RELOCATION REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ROUTING OF UTILITY EXTENSIONS. REMEDIATE, REPLACE OR REPAIR SURFACES (LAWN, LANDSCAPING, GRAVEL, PAVING, ETC.) THAT IS DAMAGED DURING CONSTRUCTION. SEE SITE PLAN AND CIVIL DRAWINGS FOR BUILDING LAYOUT AND RELOCATION REQUIREMENTS.
4. (E) DOOR, FRAME TO REMAIN. INSTALL DOOR HARDWARE, SEE DOOR SCHEDULE FOR HARDWARE UPDATE.
5. INSTALL WHITE FRP 4'-0" HIGH ON THIS WALL, PROVIDE MFR STANDARD TRIM DETAILS TOP, BOTTOM AND AT SEAMS. SEAL BOTTOM. REMOVE AND REINSTALL (E) EQUIPMENT OR ACCESSORIES AS NECESSARY FOR COMPLETE INSTALL OF FRP.
6. (E) PLUMBING FIXTURE TO REMAIN. INSTALL A CLEAR FLEXIBLE WATERPROOF SEALANT AT TRANSITION TO FLOOR AND WALL PRODUCTS.
7. REINSTALL (E) PORCELAIN SINKS, WALL MOUNTED. PROVIDE SUPPLY LINES AND PROTECTIVE INSULATED GUARDS ON PIPING IN KNEE SPACE. SEE PLUMBING DRAWINGS.
8. RELOCATED SINK TO NEW DEMISING WALL. SEE PLUMBING DRAWINGS.
9. NEW LAV CONNECT TO NEAREST WASTE LINE. PROVIDE PROTECTIVE COVERS AT PIPING UNDER SINK. SEE PLUMBING DRAWINGS.
10. ROUTE NEW EXISTING ELECTRICAL SERVICE ~~AND PROVIDE METER BASE. SEE SITE CIVIL AND ELECTRICAL DRAWINGS.~~
11. (E) TOILET TO BE REINSTALLED IN EXISTING LOCATION.
12. WHERE WATER CLOSET WAS DEMOED. INSTALL A WOOD PLUG WHERE HOLE EXISTS IN CLT FLOOR.
13. OWNER SUPPLIED WASHER/DRYER WITH PAN AND DRAIN TO NEAREST WASTE LINE. COMPLY TO ADAAG 117.1 REQUIREMENTS. CONTRACTOR TO PROVIDE UTILITY CONNECTIONS. SEE ELECTRICAL & PLUMBING DRAWINGS.
14. NOT USED
15. NOT USED.
16. INSTALL PAINTED, TRIM AROUND DOOR TO MATCH EXISTING.
17. PREHUNG INSULATED METAL DOOR WITH FRAME, LEVER HARDWARE, DOOR SEALS, AND THRESHOLD. PAINT DOOR/FRAME TO MATCH EXISTING DOORS.
18. NEW 2X4 WOOD FRAMED WALL FULL HEIGHT, FOLLOW SLOPE OF CEILING. INSTALL BATT INSULATION IN WALL. T&G WOOD CEILING TO REMAIN. INSTALL WATER RESISTANT GYP BOARD BOTH SIDES OF WALL. TAPED, FINISHED AND PAINTED. INSTALL FRP 4'-0" HIGH ON EACH SIDE OF WALL.
19. PROVIDE AND INSTALL HOMOGENOUS SHEET FLOORING. BASIS-OF-DESIGN: MARMOLEUM CONCRETE, COLOR: #3732 ASTEROID. INSTALL WITH A 6" COVE, PROVIDE COVE STICK & CAP AND ADHERE PRODUCT TO WALL. INSTALL ON THE FLOOR OVER MFR. APPROVED ¼" UNDERLAYMENT. PROVIDE FRP PVC TRIM TRANSITION AT COVE TO WALL. SEAL JOINT BETWEEN COVE AND BOTTOM OF FRP. INSTALL PER MFR REQUIREMENTS.
20. WHERE (E) OR NEW FLOOR DRAINS OCCUR. PREP AREA AROUND FLOOR DRAIN BY REMOVING ANY WOOD DECAY AND PREP WITH WATER SEALER ON WOOD.
21. PROVIDE BLOCK OUT IN CONCRETE SLAB AND POUR BACK AROUND (E) STRUCTURAL FRAME. COORDINATE REQUIRED BLOCK OUT WITH (E) CONDITION.
22. PROVIDE A BLOCK OUT AROUND (E) STRUCTURE, COORDINATE SIZE WITH LOCATION IN THE FIELD. EXTEND RIGID INSULATION AROUND BLOCK AND (E) STRUCTURAL FRAME
23. (E) HOT WATER TANK AND EQUIPMENT TO BE RETAINED, NO NEW FLOORING INSTALLED IN THIS ROOM. RE-CONNECT (E) EQUIPMENT AS NECESSARY.
24. (E) CRAWLSPACE ACCESS. COVER ACCESS HATCH.
25. ~~REMOVE PORTION OF (E) RAMP TO BE RELOCATED. PROVIDE NEW PORTION OF INTERMEDIATE LANDING. TURNING LANDING MIN. SIZE OF 60"X60". RAMP IS AN ACCESSIBLE ROUTE. PROVIDE APPROPRIATE SUPPORT FOR THE RAMP, GUARDS AND CONTINUOUS HANDRAIL WITH HANDRAIL EXTENSIONS.~~

LEGEND - THIS SHEET

SYMBOL DESIGNATION

- # — GRID LINE
- # / XXX — SECTION CUT
- RM# / ROOM1 / ROOM2 — ROOM NUMBER / ROOM NAME
- D-100 — DOOR TAG - SEE SCHEDULE
- # — WINDOW TAG - SEE SCHEDULE & ELEVATIONS
- # — WALL TYPES - SEE A2.1
- # — KEYED NOTE

LICENSED ARCHITECT
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REST ROOM BUILDINGS FOR:
TEMPORARY SAFE OUTDOOR SPACE
1975 BROADWAY, MISSOULA MT 59808

PLAN REVIEW:	07.11.2025
BID SET:	07.11.2025
IFC SET:	06.26.2026

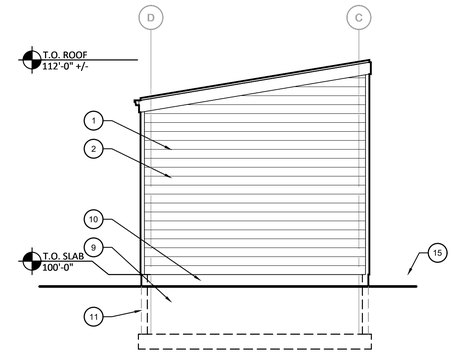
FLOOR PLANS

edinc Job #: 24.119

THIS SHEET IS INTENDED TO BE PRINTED IN COLOR TO FULLY UNDERSTAND THE INFORMATION BEING PRESENTED.

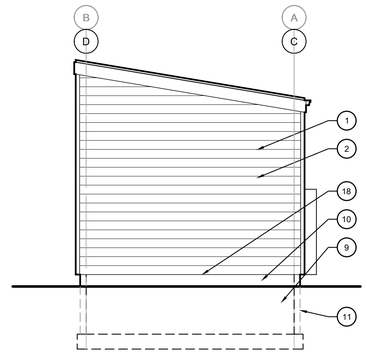
A2.1

Exhibit A



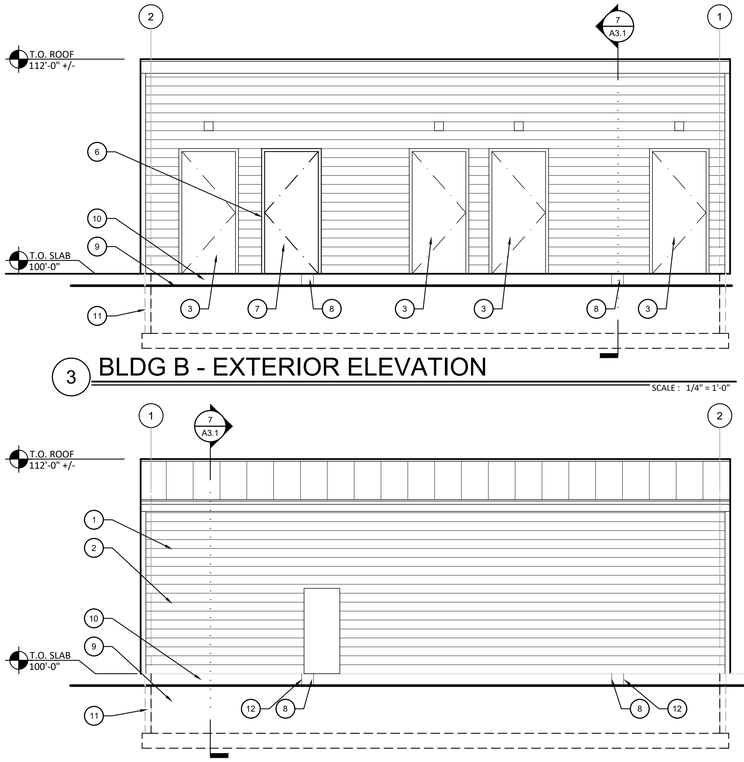
1 BLDG A - EXTERIOR ELEVATION

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



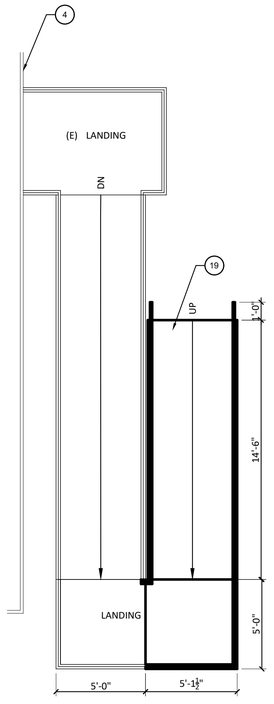
2 BLDG B - EXTERIOR ELEVATION (A SIM)

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



3 BLDG B - EXTERIOR ELEVATION

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

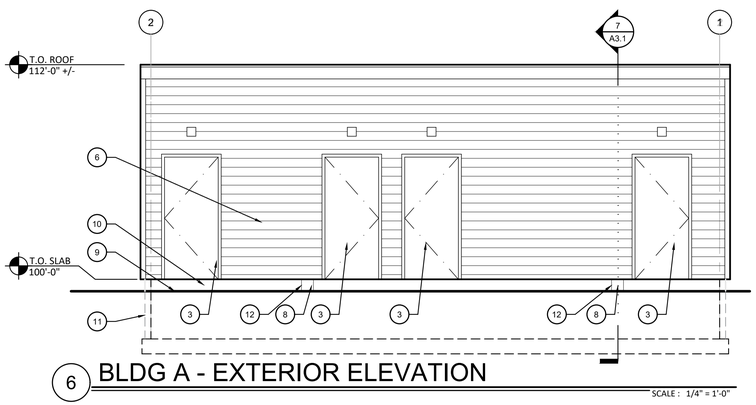


5 RAMP - PLAN

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

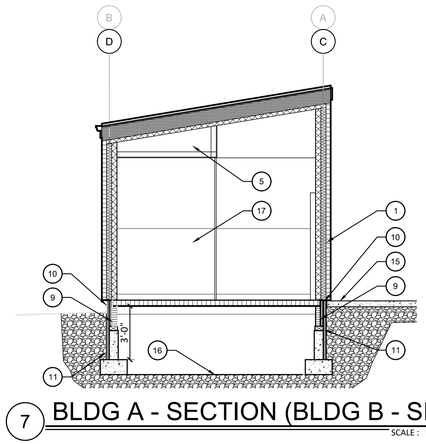
4 BLDG A - EXTERIOR ELEVATION (BLDG B - SIM)

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



6 BLDG A - EXTERIOR ELEVATION

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



7 BLDG A - SECTION (BLDG B - SIM)

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

GENERAL SPECIFICATIONS

THERMAL MOISTURE PROTECTION

WATERPROOFING

SELF ADHERED WATERPROOFING MEMBRANE, POST APPLIED.
THICKNESS: 60 MIL (56 MIL OF POLYMERIC WATERPROOFING MEMBRANE & 4 MIL CROSS-LAMINATED POLYETHYLENE CARRIER FILM)
BASIS-OF-DESIGN: WR MEADOWS MEL-ROL. INSTALL PER MFR REQUIREMENTS.

INSULATION

RIGID INSULATION FOR UNHEATED SLAB, FOR INSTALLATION BELOW GRADE (XPS), PROVIDE R-VALUE OF R7/INCH.
MINERAL-WOOL BLANKETS, UNFACED ASTM C 665, TYPE I, CLASS A, DENSITY: 4.0 PCF
PREFORMED, UNFACED FIBERGLASS BLANKET INSULATION FOR FRICTION FIT OR PIN IN PLACE AS NECESSARY FOR HEIGHT OF CAVITY. THICKNESS TO ACHIEVE R-VALUE AS INDICATED IN THE DRAWINGS.

SHEET METAL FLASHING AND TRIM

PREFINISHED METAL 26 GA, SP200 FINISH.
PROVIDE FLASHING AND TRIM FORMED FORM SIMILAR METAL. PROVIDE FINISHED APPEARANCE.
LOCATIONS AS INDICATED AND APPLICATIONS NOT LIMITED TO DRIP FLASHING, BASE FLASHING, J-METAL AT OPENINGS.
FABRICATION: FORM ACCURATELY TO DETAILS OR CONDITIONS. PROFILES, BENDS, AND INTERSECTION
SHALL BE EVEN AND TRUE. FOLD EXPOSED EDGES ½" TO PROVIDE THICKNESS.
GUTTERS AND DOWNSPOUTS PER SMACNA , GUTTER SUPPORT BRACKETS AT 30" O.C.

OPENINGS

HOLLOW METAL FRAMES

HOLLOW METAL FRAMES, 16 GA, COLD ROLLED, MITER KNOCK DOWN 2" WIDE FRAMES. PROVIDE ANCHORING FOR APPLICATION. SHOPPED PRIMED FOR PAINTED. PROVIDE REINFORCEMENT FOR HARDWARE.

HOLLOW METAL DOORS

HOLLOW METAL FLUSH PANEL DOORS, 1-3/4" THICK, 16 GA COLD ROLLED HEAVY DUTY, LEVEL 2/MODEL 2 FOR EXTERIOR APPLICATION. FLUSH WELDED DOORS. EXTERIOR DOORS TO BE INSULATED WITH RIGID INSULATION.
SHOPPED PRIMED FOR FINAL PAINTING. PROVIDE FINISHED PAINTED, INTEGRAL LIGHT KIT IN DOOR WHERE NOTED. SIZE: 4" W X 10"H.

FINISHES

INTERIOR GYPSUM BOARD

GLASS-MAT INTERIOR GYPSUM BOARD: ASTM C1658/C1658M. WITH FIBERGLASS MAT LAMINATED TO BOTH SIDES. SPECIFICALLY DESIGNED FOR INTERIOR USE. CORE: 5/8 INCH, TYPE X OR AS INDICATED ON DRAWINGS. LONG EDGES: TAPERED.
MUD AND TAPE, PRIME AND PAINT WITH LIGHT ORANGE PEAL TEXTURED FINISH. USE MOLD RESISTANT MUD COMPOUND AT WET LOCATIONS.
GLASS-MAT, WATER-RESISTANT BACKING PANELS: COMPLY WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND INSTALL AT SHOWERS, TUBS, AND WHERE INDICATED AND LOCATIONS INDICATED TO RECEIVE TILE.
HOLD DRYWALL UP MIN. 3/8" AT ALL LOCATIONS, PROVIDE CONT BEAD OF SEALANT BETWEEN EDGE OF DRYWALL AND FLOOR.\GYPSUM BOARD FINISH LEVELS: FINISH PANELS TO LEVELS INDICATED BELOW AND IN ACCORDANCE WITH ASTM C840:
LEVEL 2: PANELS THAT ARE SUBSTRATE FOR FRP.
LEVEL 4: AT PANEL SURFACES THAT WILL BE EXPOSED TO VIEW UNLESS OTHERWISE INDICATED.

PAINT

INTERIOR PAINT (P-1)
EXTRA WHITE (SW 7006). APPLICATION ALL DRYWALL LOCATIONS.
EXTERIOR/INTERIOR METAL PAINT (P-2)
DARK GRAY - MATCH EXISTING. APPLICATION TO EXPOSED STRUCTURAL STEEL, HM DOORS/FRAMES, MISC. UNCOATED STEEL.
EXTERIOR SIDING AND TRIM TO MATCH EXISTING COLOR AND FINISH.

PAINT CONT'D

EPOXY SYSTEMS: WATERBASED (RESTROOMS AND LAUNDRY TO RECEIVE EPOXY): EG-SHEL/LOW LUSTER FINISH.
1ST COAT: S-W PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER, B28W2600.
2ND AND 3RD COAT: S-W PRO INDUSTRIAL WATERBASED CATALYZED EPOXY, B73-360 SERIES.

EXTERIOR PAINT AND COATING SYSTEMS

METAL MISCELLANEOUS. IRON, ORNAMENTAL IRON, STRUCTURAL IRON AND STEEL, FERROUS METAL.
ALKYD SYSTEMS; WATERBASED: SEMI-GLOSS FINISH.
1ST COAT: S-W PRO INDUSTRIAL PRO-CRYL UNIVERSAL PRIMER, B66-1310 SERIES.
2ND AND 3RD COAT: S-W PRO INDUSTRIAL WATERBASED ALKYD URETHANE ENAMEL SEMI-GLOSS, B53-1150 SERIES.

NON-FERROUS METAL: GALVANIZED AND ALUMINUM.
URETHANE SYSTEMS; WATER BASED: SEMI-GLOSS FINISH.
1ST COAT: S-W DTM WASH PRIMER, B71Y1.
2ND COAT AND 3RD COAT: S-W HI-SOLIDS POLYURETHANE SEMI-GLOSS, B65-350/B60V30 SERIES

WOOD SIDING, TRIM, AND HARDBOARD-BARE/PRIMED.
STAIN; WATER REDUCIBLE SYSTEMS: SEMI-TRANSPARENT.
1ST AND 2ND COAT: S-W WOODSCAPES EXTERIOR POLYURETHANE SEMI-TRANSPARENT STAIN, A15T00005. TINTED PER ARCHITECT SELECTION.

FIBERGLASS REINFORCED PANEL (FRP)

COMMERCIAL GRADE FRP, BASIS OF DESIGN: MARLITE STANDARD FRP, CLASS A FRP, PEBBLED P100
PROVIDE AND INSTALL ALL NECESSARY TRIM COMPONENTS (TOP, BOTTOM AND VERTICAL JOINTS).

SPECIALTIES

TOILET, BATH AND LAUNDRY ACCESSORIES

BASIS OF DESIGN: BOBRICK, GLOBAL INDUSTRIES OR AMERICAN SPECIALTIES (ASI).

TOILET AND BATH ACCESSORY SCHEDULE

RESTROOMS OR SHOWER ROOMS:
MIRROR: 24 INCH X 36 INCH, CHANNEL LOCK, STAINLESS STEEL, QUANTITY (1) EACH SINK, ASI 0620-2436.
PAPER TOWEL DISPENSER: AUTOMATIC DISPENSER, QUANTITY (1) EACH LOCATION, GLOBAL INDUSTRIES #T9F640932.
SOAP DISPENSER: WALL MOUNT, QUANTITY (1) EACH SINK, W/ SOAP CARTRIDGE, GLOBAL INDUSTRIES #T9F640807.
SHOWER CURTAIN ROD: QUANTITY (1), SNAP OVER ESCUTCHEONS, ONE PIECE, 18 -20 GAUGE STAINLESS STEEL, 1 INCH DIAMETER, PROVIDE VINYL 72 INCH X 72 INCH CURTAIN AND CURTAIN HOOKS.
ROBE HOOK: DOUBLE HOOK, SURFACE MOUNT, QUANTITY (2) AT EACH SHOWER LOCATION.
TOWEL BAR ASI #10-0755-SS, 18" L. (1) EACH SHOWER LOCATION.

SIGNAGE

ALL BUILDING SIGNAGE (ADA SIGNAGE, ETC) WILL BE BY OWNER.

GENERAL NOTES

A. USE WRITTEN DIMENSIONS. DO NOT SCALE DRAWINGS. WHERE NO DIMENSION IS PROVIDED, CONSULT ENCOMPASS FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
B. DIMENSIONS ARE FROM FACE CONCRETE AND FACE OF STUD AT NEW WALLS.
C. COORDINATE ALL STRUCTURAL MEMBERS AND LOCATIONS, SIZES WITH EXISTING CONDITIONS.
D. EXISTING ACCESSORIES (PT, TP, SOAP, MIRRORS, HOOKS, ETC) TO REMAIN IN PLACE. WHERE REMOVED FOR NEW WORK REINSTALL.
E. USE PAPERLESS OR WATER RESISTANT GWB IN ALL WET ROOMS.
F. SEE DOOR SCHEDULE.
G. COORDINATE ALL FINAL PLUMBING FIXTURE LOCATIONS WITH PLUMBING DRAWINGS.
H. COORDINATE ALL FINAL POWER, ELECTRICAL FIXTURE LOCATIONS AND DATA LOCATIONS WITH BUILDING DRAWINGS.
I. SHUTTING OFF OF UTILITIES TO BE COORDINATED WITH UTILITY COMPANIES AND THE OWNER. PROVIDE THE OWNER WITH A 72 HOURS ADVANCED NOTICE OF UTILITY SHUT DOWNS.

1 KEYED NOTES - THIS SHEET

1. (E) BUILDING W/ TOILET AND SHOWER FACILITIES RELOCATED TO CURRENT LOCATION. GENERAL CONTRACTOR IS RESPONSIBLE FOR RIGGING, HOISTING, TRANSPORTATION AND SETTING OF BUILDING ON CONCRETE FOUNDATION. SEE CIVIL DRAWINGS.
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ROUTING OF UTILITY EXTENSIONS. REMEDIATE, REPLACE OR REPAIR SURFACES (LAWN, LANDSCAPING, GRAVEL, PAVING, ETC.) THAT IS DAMAGED DURING CONSTRUCTION. SEE CIVIL DRAWINGS.
3. (E) DOOR, FRAME TO REMAIN. INSTALL DOOR HARDWARE, SEE DOOR SCHEDULE FOR HARDWARE UPDATE.
4. EXISTING BUILDING VERIFY LOCATION OF EXISTING STRUCTURE(S).
5. (E) MECHANICAL CHASE TO REMAIN.
6. INSTALL PAINTED, TRIM AROUND DOOR TO MATCH EXISTING.
7. PREHUNG INSULATED METAL DOOR WITH FRAME, LEVER HARDWARE, DOOR SEALS, AND THRESHOLD. PAINT DOOR/FRAME (BUILDING B ONLY)
8. PROVIDE BLOCK OUT IN CONCRETE SLAB AND POUR BACK AROUND (E) STRUCTURAL FRAME. COORDINATE REQUIRED BLOCK OUT WITH (E) CONDITION.
9. INSTALL SELF ADHERED SHEET WATER PROOFING ON THE EXTERIOR FACE OF THE (E) BUILDING WOOD STRUCTURAL BEAM AND EXTEND WATER PROOFING DOWN AND OVER TOP OF FOOTING.
10. RETAIN (E) METAL FLASHING.
11. INSTALL (2) LAYERS OF 2" XPS RIGID INSULATION UP UNDER METAL FLASHING AND SECURE TO (E) BUILDING FRAMING & FOUNDATION WALL. COVER EXPOSED INSULATION WITH 24 GA PREFINISHED METAL FLASHING, EXTEND FLASHING 6" BELOW GRADE.
12. INSTALL 4" XPS RIGID INSULATION AROUND (E) STRUCTURAL FRAME
13. NOT USED.
14. NOT USED.
15. CONCRETE SLAB BETWEEN BUILDINGS, SEE STRUCTURAL AND CIVIL DRAWINGS.
16. 10 MIL VAPOR BARRIER OVER SUBGRADE AT CRAWLSPACE. WRAP UP FOUNDATION WALL AND TAPE ALL SEAMS.
17. FRP SEE FLOOR PLANS.
18. COORDINATE INSTALL OF DEMO SIDING WITH CONCRETE CURB SHOWN ON CIVIL DRAWINGS. INSTALL FLASHING UNDER EXTERIOR SIDING & TRIM. REINSTALL SIDING & TRIM, LAP BUILDING WRAP OVER FLASHING AND TAPE BUILDING WRAP.
19. REMOVE PORTION OF (E) RAMP TO BE RELOCATED. PROVIDE NEW PORTION OF INTERMEDIATE LANDING. TURNING LANDING MIN. SIZE OF 60"X60". RAMP IS AN ACCESSIBLE ROUTE. PROVIDE APPROPRIATE SUPPORT FOR THE RAMP, GUARDS AND CONTINUOUS HANDRAIL WITH HANDRAIL EXTENSIONS.

DOOR SCHEDULE

MARK	TYPE	DESCRIPTION	DOOR		FRAME		WIDTH	HEIGHT	FUNCTION	HARDWARE GROUP	FIRE RATING	KEYED NOTES
			MTL	FIN	MTL	FIN						
A101-1	(E)	ENTRY	(E)	PT	(E)	PT	3'-0"	7'-0"	PRIVACY	2	-	1
A102-1	(E)	ENTRY	(E)	PT	(E)	PT	3'-0"	7'-0"	STORAGE	1	-	1
A103-1	(E)	ENTRY	(E)	PT	(E)	PT	3'-0"	7'-0"	CLASSRM	3	-	1
A104-1	(E)	ENTRY	(E)	PT	(E)	PT	3'-0"	7'-0"	PRIVACY	2	-	1
B101-1	(E)	ENTRY	(E)	PT	(E)	PT	3'-0"	7'-0"	PRIVACY	2	-	1
B102-1	(E)	ENTRY	(E)	PT	(E)	PT	3'-0"	7'-0"	STORAGE	1	-	1
B103-1	(E)	ENTRY	(E)	PT	(E)	PT	3'-0"	7'-0"	PRIVACY	2	-	1
B104-1	NEW	ENTRY	HM-INS	PT	HM-INS	PT	3'-0"	7'-0"	CLASSRM	4	-	-
B105-1	(E)	ENTRY	(E)	PT	(E)	PT	3'-0"	7'-0"	PRIVACY	2	-	1

ABBREVIATIONS:

(E)EXIST	EXISTING
AL	ALUMINUM STOREFRONT
FF	FACTORY FINISH
HM	HOLLOW METAL
INS	INSULATED
PR	PAIR
PT	PAINT
SC-WD	SOLID CORE WOOD, PREFINISHED
T	TEMPERED GLASS
VIF	VERIFY IN FIELD

GENERAL NOTES:

A. CONTRACTOR TO VERIFY ALL EXISTING AND NEW ROUGH OPENING SIZES.
B. ROUGH OPENING TO BE 6" FROM FRAMED WALL UNLESS NOTED OTHERWISE.
C. PROVIDE BLOCKING & NECESSARY MOUNTING REQUIREMENTS FOR DOOR AND DOOR HARDWARE.
D. LEVER HANDLES REQUIRED AT ALL DOORS.
E. SEE FLOOR PLANS FOR DOOR SWING.
F. GC TO PROVIDE KEYING FOR DOORS. GC TO COORDINATE WITH OWNER.
G. DOOR, HARDWARE AND POWER CONNECTIONS TO BE COORDINATED BY GC.

KEYED NOTES:

1. PREP EXISTING DOORS FOR NEW HARDWARE.

HARDWARE GROUPS

HW 01

3	EA	EXISTING TO REMAIN
1	EA	STORAGE ALX80P ATH 622
1	EA	DEAD BOLT SCHALGE B560P GRADE 2 622
1	EA	DOOR SEAL S88D DKB PEM
1	EA	BOTTOM BRUSH SWEEP 315CN 36"

HW 02

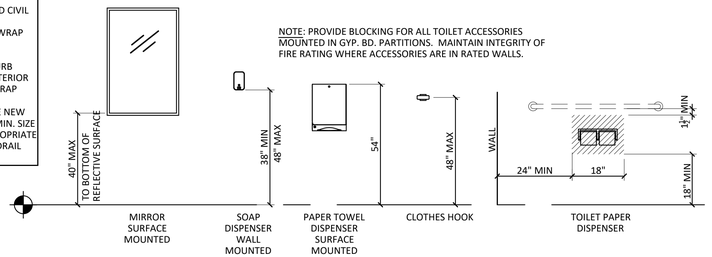
3	EA	EXISTING TO REMAIN
1	EA	PRIVACY ALX50P ATH 622
1	EA	DOOR SEAL S88D DKB PEM
1	EA	BOTTOM BRUSH SWEEP 315CN 36"

HW 03

3	EA	EXISTING TO REMAIN
1	EA	CLASSROOM ALX70P ATH 622
1	EA	DOOR SEAL S88D DKB PEM
1	EA	BOTTOM BRUSH SWEEP 315CN 36"

HW 04

3	EA	3.5X3.5 HINGES 622
1	EA	STORAGE LOCK ND80PD ATH 622
1	EA	DOOR SEAL S88D DKB PEM
1	EA	BOTTOM BRUSH SWEEP 315CN 36"



NOTE: PROVIDE BLOCKING FOR ALL TOILET ACCESSORIES MOUNTED IN GYP. BD. PARTITIONS. MAINTAIN INTEGRITY OF FIRE RATING WHERE ACCESSORIES ARE IN RATED WALLS.

8 RESTROOM ACCESSORY MOUNTING HEIGHTS

SCALE : 3/8" = 1'-0"

LICENSED ARCHITECT
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REST ROOM BUILDINGS FOR:
TEMPORARY SAFE OUTDOOR SPACE
1975 BROADWAY, MISSOULA MT 59808

PLAN REVIEW:	07.11.2025
BID SET:	07.11.2025
IFC SET:	05.13.2026

SPECS/ DOOR SCHEDULE, EXTERIOR ELEVATIONS SECTION

encinc Job #: 24.119

THIS SHEET IS INTENDED TO BE PRINTED IN COLOR TO FULLY UNDERSTAND THE INFORMATION BEING PRESENTED.

A3.1

Exhibit A

01.00.00 GENERAL REQUIREMENTS

1. **GOVERNING CODE:** THE DESIGN AND CONSTRUCTION OF THIS PROJECT IS GOVERNED BY THE "INTERNATIONAL BUILDING CODE (IBC)," 2021 EDITION, HEREAFTER REFERRED TO AS THE IBC, AS ADOPTED AND MODIFIED BY THE CITY OF MISSOULA, MT UNDERSTOOD TO BE THE AUTHORITY HAVING JURISDICTION (AHJ).

2. **REFERENCE STANDARDS:** REFER TO CHAPTER 35 OF THE 2021 IBC. WHERE OTHER STANDARDS ARE NOTED IN THE DRAWINGS, USE THE LATEST EDITION OF THE STANDARD UNLESS A SPECIFIC DATE IS INDICATED. REFERENCE TO A SPECIFIC SECTION IN A CODE DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE ENTIRE STANDARD.

3. **DEFINITIONS:** THE FOLLOWING DEFINITIONS COVER THE MEANINGS OF CERTAIN TERMS USED IN THESE NOTES:
   - 3.1. "ARCHITECT/ENGINEER" - THE ARCHITECT OF RECORD AND THE STRUCTURAL ENGINEER OF RECORD.
   - 3.2. "STRUCTURAL ENGINEER OF RECORD" (SER) - THE STRUCTURAL ENGINEER WHO IS LICENSED TO STAMP AND SIGN THE STRUCTURAL DOCUMENTS FOR THE PROJECT. THE SER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM.
   - 3.3. "SUBMIT FOR REVIEW" - SUBMIT TO THE ARCHITECT/SER FOR REVIEW PRIOR TO FABRICATION OR CONSTRUCTION.
   - 3.4. "PER PLAN" - INDICATES REFERENCES TO THE STRUCTURAL PLANS, ELEVATIONS, AND STRUCTURAL GENERAL NOTES.

4. **SPECIFICATIONS:** STRUCTURAL GENERAL NOTES ALSO SERVE AS THE STRUCTURAL SPECIFICATIONS.

5. **OTHER DRAWINGS:** REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, ELEVATIONS, SLOPES, DOOR AND WINDOW OPENINGS, NON-BEARING WALLS, STAIRS, FINISHES, DRAINS, WATERPROOFING, RAILINGS, CURTAIN WALLS, ELEVATORS, CURBS, DEPRESSIONS, MECHANICAL UNIT LOCATIONS, AND OTHER NON-STRUCTURAL ITEMS.

6. **STRUCTURAL DETAILS:** THE STRUCTURAL DRAWINGS ARE INTENDED TO SHOW THE GENERAL CHARACTER AND EXTENT OF THE PROJECT AND ARE NOT INTENDED TO SHOW ALL DETAILS OF THE WORK. USE ENTIRE DETAIL SHEETS AND SPECIFIC DETAILS REFERENCED IN THE PLANS AS "TYPICAL" WHEREVER THEY APPLY. SIMILARLY, USE DETAILS ON ENTIRE SHEETS WITH "TYPICAL" IN THE NAME WHEREVER THEY APPLY.

7. **STRUCTURAL RESPONSIBILITIES:** THE SER IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE PRIMARY STRUCTURE IN ITS COMPLETED FORM.

8. **COORDINATION:** THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DETAILS AND ACCURACY OF THE WORK, CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES, TECHNIQUES OF ASSEMBLY, AND PERFORMING WORK IN A SAFE AND SECURE MANNER.

9. **PRE-CONSTRUCTION MEETINGS:** THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING PRE-CONSTRUCTION MEETINGS PRIOR TO COMMENCING WORK. PRE-CON MEETINGS, SCHEDULED APPROXIMATELY TWO WEEKS PRIOR TO THE START OF THE RELEVANT WORK, ARE REQUIRED FOR THE FOLLOWING PHASES OF CONSTRUCTION: WOOD FRAMING, ATTENDEES FOR PRE-CONSTRUCTION MEETING ARE TO INCLUDE THE CONTRACTOR, RELEVANT SUBCONTRACTORS/FABRICATORS, INSPECTORS, ARCHITECT/SER, AND A REPRESENTATIVE OF THE AHJ WHERE REQUIRED. MEETING AGENDAS ARE TO INCLUDE REVIEW OF THE WORK SCOPE, PROJECT SCHEDULE RELEVANT TO THE WORK, CONTACT INFORMATION OF RESPONSIBLE PARTIES, INSPECTION POINTS, REVIEW OF MATERIALS AND ANY SPECIAL CASES OR ISSUES, PROCEDURES FOR CLARIFICATIONS IF REQUIRED, TESTING AND ACCEPTANCE, ETC.

10. **MEANS, METHODS, AND SAFETY REQUIREMENTS:** THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND ALL JOB-RELATED SAFETY STANDARDS SUCH AS OSHA AND DOSH (DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH). THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION RELATED TO THE INTERMEDIATE STRUCTURAL CONDITIONS (I.E., MOVEMENT OF THE STRUCTURE DUE TO MOISTURE AND THERMAL EFFECTS, CONSTRUCTION SEQUENCE, TEMPORARY BRACING, ETC.).

11. **BRACING/SHORING DESIGN ENGINEER:** THE CONTRACTOR SHALL, AT THEIR DISCRETION, EMPLOY AN SSE FOR THE DESIGN OF ANY TEMPORARY BRACING AND SHORING. SUBMIT CONSTRUCTION SEQUENCE TO ARCHITECT/ENGINEER FOR REVIEW.

12. **TEMPORARY SHORING, BRACING:** THE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING, BRACING, AND OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS AND THE REQUIREMENTS FOR EXECUTING IT PROPERLY.

13. **CONSTRUCTION LOADS:** LOADS ON THE STRUCTURE DURING CONSTRUCTION SHALL NOT EXCEED THE DESIGN LOADS AS NOTED IN DESIGN CRITERIA AND LOADS SECTION OF THESE GENERAL NOTES OR THE CAPACITY OF PARTIALLY COMPLETED CONSTRUCTION AS DETERMINED BY THE CONTRACTOR'S SSE FOR BRACING/SHORING.

14. **CHANGES IN LOADING:** THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY THE SER OF ANY ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING LOAD IMPOSED ONTO THE STRUCTURE THAT DIFFERS FROM, OR THAT IS NOT DOCUMENTED ON, THE ORIGINAL CONTRACT DOCUMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING DRAWINGS). PROVIDE DOCUMENTATION OF THE LOCATION, LOAD, SIZE, AND ANCHORAGE OF ALL UNDOCUMENTED LOADS IN EXCESS OF 400 LB. PROVIDE MARKED-UP STRUCTURAL PLANS INDICATING THE LOCATIONS OF ANY NEW EQUIPMENT OR LOADS. SUBMIT THESE PLANS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

15. **NOTE PRIORITIES:** PLAN AND DETAIL NOTES AND SPECIFIC LOADING DATA PROVIDED ON INDIVIDUAL PLANS AND DETAIL DRAWINGS SUPPLEMENTS INFORMATION IN THESE GENERAL NOTES.

16. **DISCREPANCIES:** IN CASE OF DISCREPANCIES BETWEEN THE GENERAL NOTES, SPECIFICATIONS, PLANS/DETAILS, OR REFERENCE STANDARDS, THE ARCHITECT/ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. SHOULD ANY DISCREPANCY BE FOUND IN THE CONTRACT DOCUMENTS, THE CONTRACTOR WILL BE DEEMED TO HAVE INCLUDED IN THE PRICE THE MOST EXPENSIVE WAY OF COMPLETING THE WORK UNLESS PRIOR TO THE SUBMISSION OF THE PRICE, THE CONTRACTOR ASKS FOR A DECISION FROM THE ARCHITECT AS TO WHICH SHALL GOVERN. ACCORDINGLY, ANY CONFLICT IN OR BETWEEN THE CONTRACT DOCUMENTS SHALL NOT BE A BASIS FOR ADJUSTMENT IN THE CONTRACT PRICE.

17. **SITE VERIFICATION:** THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. CONFLICTS BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.

18. **ADJACENT UTILITIES:** THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO EARTHWORK, FOUNDATION WORK, SHORING AND EXCAVATION. ANY UTILITY INFORMATION SHOWN ON THE DRAWINGS AND DETAILS IS APPROXIMATE AND NOT NECESSARILY COMPLETE.

19. **ALTERNATES:** ALTERNATE PRODUCTS OF SIMILAR STRENGTH, NATURE, AND FORM FOR SPECIFIED ITEMS MAY BE SUBMITTED WITH ADEQUATE TECHNICAL DOCUMENTATION (PROPER TEST REPORT, ETC.) TO THE ARCHITECT/ENGINEER FOR REVIEW. ALTERNATE MATERIALS THAT ARE SUBMITTED WITHOUT ADEQUATE TECHNICAL DOCUMENTATION OR THAT SIGNIFICANTLY DEVIATE FROM THE DESIGN INTENT OF MATERIALS SPECIFIED MAY BE RETURNED WITHOUT REVIEW. ALTERNATES THAT REQUIRE SUBSTANTIAL EFFORT TO REVIEW WILL NOT BE REVIEWED UNLESS AUTHORIZED BY THE OWNER.

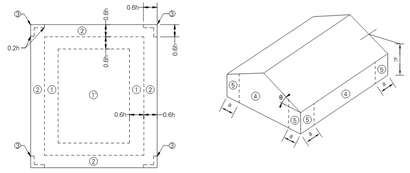
01.10.00 DESIGN CRITERIA AND LOADS

1. **OCCUPANCY:**
   RISK CATEGORY OF BUILDING PER IBC TABLE 1604.5 — II

2. **WIND DESIGN: MAIN WIND FORCE RESISTING SYSTEM:**

ULTIMATE DESIGN WIND SPEED, V_{ULT}	105 MPH
EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT, C_{pi}	±0.18
TOPOGRAPHIC FACTOR, K_{zt}	1.0
WIND ANALYSIS PROCEDURE USED	DIRECTIONAL

3. **WIND DESIGN: COMPONENTS AND CLADDING (C&C) PRESSURES FOR DESIGN (PSF, ULTIMATE):**



PLAN ISOMETRIC

EFFECTIVE WIND AREA (FT²)

a = 3'-0"	10	20	50	100	500
ZONE 1	-17.6/16	-17.6/16	-17.6/16	-17.6/16	-17.6/16
ZONE 2	-20.4/16	-20/16	-19.4/16	-19/16	-19/16
ZONE 3	-27.3/16	-24.8/16	-21.5/16	-19/16	-19/16
ZONE 4	-16.1/+16	-16/16	-16/16	-16/16	-16/16
ZONE 5	-19.9/+16	-18.5/16	-16.8/16	-16/16	-16/16

   - 3.1. COMPONENTS AND CLADDING WIND PRESSURES ARE BASED ON ASCE 7 CHAPTER 30 PART 1 "LOW-RISE BUILDINGS." PART 3 "BUILDINGS WITH H > 60 FT."
   - 3.2. COMPONENTS AND CLADDING ZONE LOCATIONS ARE BASED ON ASCE 7 FIGURE 30.3-2A FOR FLAT ROOFS.
   - 3.3. COMPONENTS AND CLADDING ZONE LOCATIONS ARE BASED ON ASCE 7 FIGURE 30.3-1 FOR WALLS.

4. **SEISMIC DESIGN:**

SEISMIC DESIGN CATEGORY, SDC	D
SITE CLASS PER IBC SECTION 1613.3.2 AND ASCE 7 CHAPTER	D

5. **SNOW LOAD:**

FLAT ROOF SNOW LOAD, P_f	30 PSF [NOTE 5.1]
SNOW LOAD IMPORTANCE FACTOR, I_s	1.00 [NOTE 5.3]
GROUND SNOW LOAD, P_g	34 PSF
SNOW EXPOSURE FACTOR, C_e	1.0
THERMAL FACTOR, C_t	1.1

   - 5.1. SNOW LOAD IS UN-REDUCIBLE AND INCLUDES 5 PSF RAIN-ON-SNOW SURCHARGE WHERE GROUND SNOW LOAD IS 20 PSF OR LESS, BUT NOT ZERO, PER ASCE 7 SECTION 7.10.
   - 5.2. SNOW LOAD BASED ON ASCE FIGURE 7-1.
   - 5.3. SNOW LOAD IMPORTANCE FACTOR PER ASCE 7 TABLE 1.5-2.

6. **DESIGN LIVE LOADS:** SEE STRUCTURAL LOADING PLANS FOR AREA LOADS AND LINE LOADS. LOADS LISTED BELOW ARE FOR MISCELLANEOUS ITEMS.

AREA	LIVE LOADS
HANDRAILS AND PEDESTRIAN GUARDRAILS	50 PLF OR 200 LB [NOTE 6.1]

   - 6.1. TOP RAIL SHALL BE DESIGNED TO RESIST A 50 PLF LINE LOAD OR 200 LB POINT LOAD APPLIED IN ANY DIRECTION AT ANY POINT. INTERMEDIATE RAILS (ALL THOSE EXCEPT THE HANDRAIL), BALUSTERS, AND PANEL FILLERS SHALL BE DESIGNED TO WITHSTAND A HORIZONTALLY APPLIED NORMAL LOAD OF 50 LB ON AN AREA NOT TO EXCEED 1'x1'. THESE THREE LOADS ARE TO BE CONSIDERED SEPARATELY WITH THE WORST CASE USED FOR DESIGN.

01.20.00 SUBMITTALS

1. **SUBMIT FOR REVIEW:** SUBMITTALS OF SHOP DRAWINGS AND PRODUCT DATA ARE REQUIRED FOR ITEMS NOTED IN THE INDIVIDUAL MATERIALS SECTIONS OF THESE GENERAL NOTES AND FOR BIDDER-DESIGNED ELEMENTS.

2. **SUBMITTAL REVIEW PERIOD:** SUBMITTALS SHALL BE MADE IN TIME TO PROVIDE A MINIMUM OF TWO WEEKS OR TEN WORKING DAYS FOR REVIEW BY THE ARCHITECT/ENGINEER PRIOR TO THE ONSET OF FABRICATION.

3. **GENERAL CONTRACTOR'S PRIOR REVIEW:** PRIOR TO SUBMISSION TO THE ARCHITECT/ENGINEER, THE CONTRACTOR SHALL REVIEW THE SUBMITTAL FOR COMPLETENESS. DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE SER; THEREFORE, THEY MUST BE VERIFIED BY THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ANY NECESSARY DIMENSIONAL DETAILS REQUESTED BY THE DETAILER AND PROVIDE THE CONTRACTOR'S REVIEW STAMP AND SIGNATURE BEFORE FORWARDING TO THE ARCHITECT/ENGINEER.

4. **SHOP DRAWING REVIEW:** ONCE THE CONTRACTOR HAS COMPLETED THEIR REVIEW, THE SER WILL REVIEW THE SUBMITTAL FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND THE CONTRACT DOCUMENTS OF THE BUILDING AND WILL STAMP THE SUBMITTAL ACCORDINGLY. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, NOR DEPARTURES THERE FROM. THE SER WILL RETURN SUBMITTALS IN THE FORM IN WHICH THEY ARE SUBMITTED (EITHER HARD COPY OR ELECTRONIC). FOR HARD COPY SUBMITTALS, THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE REQUIRED NUMBER OF COPIES TO THE SER FOR REVIEW.

5. **SHOP DRAWING DEVIATIONS:** WHEN SHOP DRAWINGS (COMPONENT DESIGN DRAWINGS) DIFFER FROM OR ADD TO THE REQUIREMENTS OF THE STRUCTURAL DRAWINGS, THEY SHALL BE DESIGNED AND STAMPED BY THE RESPONSIBLE SSE.

01.30.00 DEFERRED SUBMITTALS

1. **BIDDER-DESIGNED ELEMENTS:** SUBMIT "BIDDER-DESIGNED" DEFERRED SUBMITTALS TO THE ARCHITECT AND SER FOR REVIEW. THE DEFERRED SUBMITTALS SHALL ALSO BE SUBMITTED TO THE CITY FOR APPROVAL IF REQUIRED BY THE CITY. DESIGN OF PREFABRICATED, "BIDDER-DESIGNED," MANUFACTURED, PRE-ENGINEERED, OR OTHER FABRICATED PRODUCTS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
   - 1.1. DESIGN CONSIDERS TRIBUTARY DEAD, LIVE, WIND, EARTHQUAKE LOADS IN COMBINATIONS REQUIRED BY THE IBC. IN ADDITION, TEMPORARY RIGGING, TRANSPORTING, AND ERECTING LOADS TO BE CONSIDERED IN COMBINATIONS REQUIRED BY THE IBC.
   - 1.2. DESIGN WITHIN THE DEFLECTION LIMITS AS SPECIFIED OR REFERENCED IN THE IBC.
   - 1.3. DESIGN SHALL CONFORM TO THE SPECIFICATIONS AND REFERENCE STANDARDS OF THE GOVERNING CODE.
   - 1.4. SUBMITTAL SHALL INCLUDE:
     - 1.4.1. CALCULATIONS PREPARED, STAMPED, AND SIGNED BY THE SSE DEMONSTRATING CODE CONFORMANCE.
     - 1.4.2. ENGINEERED RIGGING, TRANSPORTING, AND ERECTING DESIGN DRAWINGS ARE PREPARED, STAMPED, AND SIGNED BY THE SSE.
     - 1.4.3. PRODUCT DATA, TECHNICAL INFORMATION AND MANUFACTURER'S WRITTEN REQUIREMENTS, AND AGENCY APPROVALS AS APPLICABLE.
     - 1.4.4. THE SSE MAY SUBMIT TO THE ARCHITECT/ENGINEER A REQUEST TO UTILIZE RELEVANT ALTERNATE DESIGN CRITERIA OF SIMILAR NATURE AND GENERAL EQUIVALENCY WHICH IS RECOGNIZED BY THE CODE AND ACCEPTABLE TO THE AHJ. SUBMIT ADEQUATE DOCUMENTATION OF DESIGN.

2. **GENERAL CONTRACTOR'S PRIOR REVIEW:**
   - 2.1. ONCE THE CONTRACTOR HAS COMPLETED THEIR REVIEW OF THE SSE COMPONENT DRAWINGS, THE SER WILL REVIEW THE SUBMITTAL FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING AND WILL STAMP THE SUBMITTAL ACCORDINGLY.
   - 2.2. REVIEW OF THE SSE'S SHOP DRAWINGS (COMPONENT DESIGN DRAWINGS) IS FOR COMPLIANCE WITH DESIGN CRITERIA AND COMPATIBILITY WITH THE DESIGN OF THE PRIMARY STRUCTURE AND DOES NOT RELIEVE THE SSE OF RESPONSIBILITY FOR THAT DESIGN.

STRUCTURAL SHEET LIST

SHEET NUMBER	SHEET TITLE
S1.1	COVER SHEET - LEGEND AND ABBREVIATIONS
S1.2	GENERAL NOTES
S2.1	FOUNDATION PLAN
S4.1	FOUNDATION DETAILS
Sheet Total: 4	

DRAWING LEGEND

MARK	DESCRIPTION	MARK	DESCRIPTION
F2.0	FOOTING SYMBOL (REFER TO SPREAD FOOTING SCHEDULE)		INDICATES DIRECTION OF DECK SPAN
1P	PILE CAP SYMBOL (REFER TO PILE CAP SCHEDULE)		INDICATES WIDE FLANGE COLUMN
1	TILT-UP/PRECAST CONCRETE WALL CONNECTION SYMBOL (REFER TO CONNECTION DETAIL)		INDICATES HOLLOW STRUCTURAL SECTION (HSS) COLUMN OR TUBE STEEL (TS) COLUMN
2W4	SHEAR WALL SYMBOL (REFER TO SHEAR WALL SCHEDULE)		INDICATES HOLLOW STRUCTURAL SECTION (HSS) COLUMN OR STEEL PIPE COLUMN
0	REVISION TRIANGLE		INDICATES WOOD POST
1	TILT-UP/PRECAST CONCRETE WALL PANEL NUMBER (REFER TO TILT-UP/ PRECAST CONCRETE WALL ELEVATIONS)		INDICATES BUNDLED STUDS
1	CMU WALL REINFORCING SYMBOL (REFER TO CMU WALL REINFORCING SCHEDULE)		INDICATES CONCRETE COLUMN
8"	CONTINUITY PLATE LENGTH (REFER TO TYPICAL DETAIL)		INDICATES PRECAST CONCRETE COLUMN
DS	INDICATES DOUBLE SHEAR CONNECTION (REFER TO THE DOUBLE SHEAR PLATE CONNECTIONS DETAIL)		INDICATES MOMENT FRAME CONNECTION
00TB	INDICATES REINFORCING TYPE (REFER TO THE REINFORCING SCHEDULE)		INDICATES CANTILEVER CONNECTION
SR__	INDICATES NUMBER OF STUD RAIL REQUIRED AT COLUMN (REFER TO STUD RAIL DETAILS)		INDICATES DRAG CONNECTION
1	ROOF/FLOOR DIAPHRAGM NAILING SYMBOL (REFER TO DIAPHRAGM NAILING SCHEDULE)		INDICATES WOOD OR STEEL STUD BEARING WALL LINE PER KEY ON SHEET
C1 XX"x XX"	STEEL/CONCRETE COLUMN SYMBOL (REFER TO STEEL COLUMN SCHEDULE)		INDICATES WOOD OR STEEL STUD SHEAR WALL LINE AND HOLD-DOWNS PER KEY ON SHEET
T/FTG = X'-X"	ELEVATION SYMBOL (T/ REFERS TO COMPONENT THAT THE ELEVATION REFERENCES)		INDICATES MASONRY/CMU WALL
3	STUD BUBBLE (INDICATES NUMBER OF STUDS REQUIRED IF EXCEEDS NUMBER SPECIFIED IN PLAN NOTE)		INDICATES CONCRETE/TILT-UP CONCRETE WALL
	INDICATES STEP IN FOOTING (REFER TO TYPICAL STEP IN FOOTING DETAIL)		INDICATES BEARING WALL BELOW
X SX.X	DETAILS OR SECTION CUT (DETAIL NUMBER/SHEET NUMBER)		INDICATES EXISTING WALL
00 S0.0	DETAILS OR SECTION CUT IN PLAN VIEW (DETAIL NUMBER/SHEET NUMBER)		POST-TENSION DEAD END (PLAN)
XX/SXX.XX	INDICATES LOCATION OF CONCRETE WALLS, SHEAR WALLS OR BRACED FRAME ELEVATIONS		POST-TENSION STRESSING END (PLAN)
	STRUCTURAL EXTENT SYMBOL SINGLE ARROW - END OF EXTENT DOUBLE ARROW - CONTINUOUS EXTENT ALONG THE ELEMENT LINE UNTIL THE ELEMENT IS INTERRUPTED	3	POST-TENSION PROFILE (PLAN) (IN INCHES)
			INTERMEDIATE STRESSING (PLAN)

ABBREVIATIONS

L	Angle	EXT	Exterior	PREFAB	Prefabricated
AB	Anchor Bolt	FD	Floor Drain	PSF	Pounds per Square Foot
ADDL	Additional	FDN	Foundation	PSI	Pounds Per Square Inch
ADH	Adhesive	FIN	Finish	PSL	Parallel Strand Lumber
ALT	Alternate	FLR	Floor	P-T	Post-Tensioned
ARCH	Architectural	FRP	Fiberglass Reinforced Plastic	PT	Pressure Treated
B or BOT	Bottom	FRT	Fire Retardant Treated	R	Radius
B/	Bottom Of	FTG	Footing	RD	Roof Drain
BLDG	Building	F/	Face of	REF	Refer/Reference
BLKG	Blocking	GA	Gage	REINF	Reinforcing
BMU	Brick Masonry Unit	GALV	Galvanized	REQD	Required
BP	Baseplate	GEOTECH	Geotechnical	RET	Retaining
BRBF	Buckling Restrained Braced Frame	GL	Glue Laminated Timber	SCBF	Special Concentric Braced Frame
BRG	Bearing	GWB	Gypsum Wall Board		
BTWN	Between	HDR	Header	SCHED	Schedule
C	Camber	HF	Hem-Fir	SER	Structural Engineer of Record
CB	Castellated Beam	HGR	Hanger		
C'BORE	Counterbore	HD	Hold-down	SFRS	Seismic Force-Resisting System
CL or ℄	Centerline	HORIZ	Horizontal		
CLT	Cross-Laminated Timber	HP	High Point	SHTHG	Sheathing
CIP	Cast in Place	HSS = TS	(Hollow Structural Section)	SIM	Similar
CJ	Construction or Control Joint	IBC	International Building Code	SLBB	Short Leg Back-to-Back
		ID	Inside Diameter	SMF	Special Moment Frame
CJP	Complete Joint Penetration	IE	Invert Elevation	SOG	Slab on Grade
		IF	Inside Face	SP	Southern Pine
CLR	Clear	INT	Interior	SPEC	Specification
CLG	Ceiling	k	Kips	SQ	Square
CMU	Concrete Masonry Unit	KSF	Kips Per Square Foot	SR	Studrail
COL	Column	LF	Lineal Foot	SF	Square Foot
CONC	Concrete	LL	Live Load	SST	Stainless Steel
CONN	Connection	LLBB	Long Leg Back-to-Back	STAGG	Stagger/Staggered
CONST	Construction	LLH	Long Leg Horizontal	STD	Standard
CONT	Continuous	LLV	Long Leg Vertical	STIFF	Stiffener
C'SINK	Countersink	LP	Low Point	STL	Steel
CTRD	Centered	LONGIT	Longitudinal	STRUCT	Structural
DIA	Diameter	LSL	Laminated Strand Lumber	SWWJ	Solid Web Wood Joist
DB	Drop Beam	LVL	Laminated Veneer Lumber	SYM	Symmetrical
DBA	Deformed Bar Anchor	MAS	Masonry	T	Top
DBL	Double	MAX	Maximum	T/	Top Of
DEMO	Demolish	MECH	Mechanical	T&B	Top & Bottom
DEV	Development	MEZZ	Mezzanine	TC AX LD	Top Chord Axial Load
DF	Douglas Fir	MFR	Manufacturer	TCX	Top Chord Extension
DIAG	Diagonal	MIN	Minimum	TDS	Tie Down System
DIST	Distributed	MISC	Miscellaneous	T&G	Tongue & Groove
DL	Dead Load	(N)	New	THKND	Thickened
DN	Down	NIC	Not In Contract	THRD	Threaded
DO	Ditto	NLT	Nail-Laminated Timber	THRU	Through
DP	Depth/Deep	NTS	Not To Scale	TRANSV	Transverse
DWG	Drawing	OC	On Center	TYP	Typical
(E)	Existing	OCBF	Ordinary Concentric Braced Frame	UNO	Unless Noted Otherwise
EA	Each			URM	Unreinforced Masonry
EF	Each Face	OD	Outside Diameter		Unit
EL	Elevation	OF	Outside Face	(V)	Verify
ELEC	Electrical	OPNG	Opening	VERT	Vertical
ELEV	Elevator	OPP	Opposite	W	Wide
EMBED	Embedment	OWSJ	Open Web Steel Joist	W/	With
EQ	Equal	OWWJ	Open Web Wood Joist	W/O	Without
EQUIP	Equipment	PL	Plate	WHS	Welded Headed Stud
EW	Each Way	PAF	Powder Actuated Fastener	WP	Working Point
EXP	Expansion	PC	Precast	WS	Wall Step
EXP JT	Expansion Joint	PERP	Perpendicular	WWF	Welded Wire Fabric
		PLWD	Plywood	±	Plus or Minus
		PJP	Partial Joint Penetration		

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REST ROOM BUILDINGS FOR:
TEMPORARY SAFE OUTDOOR SPACE
1975 BROADWAY, MISSOULA MT 59808

PERMIT SET: 07/11/2025
REV 1: 03/17/2026

COVER SHEET - LEGEND AND ABBREVIATIONS

DCI Job #: 25141-0187
ARCHITECT: encor pass DESIGN INC.

THIS SHEET IS INTENDED TO BE PRINTED IN COLOR TO FULLY UNDERSTAND THE INFORMATION BEING PRESENTED.

S1.1

3/18/2026 10:37:00 AM C:\Users\mark\Documents\25141-0187 TSOS Restroom PKG R25_Mark\Arch\ARCH.rvt

Exhibit A

2.3. ALL NECESSARY BRACING, TIES, ANCHORAGE, AND PROPRIETARY PRODUCTS SHALL BE FURNISHED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS OR THE SSE'S DESIGN DRAWINGS AND CALCULATIONS.

2.4. BIDDER-DESIGNED ELEMENTS INCLUDE BUT ARE NOT LIMITED TO:

2.4.1. RIGGING, TRANSPORTING, AND ERECTING OF EXISTING BUILDINGS

01.40.00 INSPECTIONS, QUALITY ASSURANCE, AND TEST REQUIREMENTS

1. **INSPECTIONS:** FOUNDATIONS, FOOTINGS, AND UNDER SLAB SYSTEMS AND FRAMING ARE SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL IN ACCORDANCE WITH IBC SECTION 110.3. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH THE BUILDING OFFICIAL.

02.00.00 SOILS AND FOUNDATION

1. **REFERENCE STANDARDS:** CONFORM TO IBC CHAPTER 18 "SOILS AND FOUNDATIONS"

2. **CONTRACTOR'S RESPONSIBILITIES:**

3. **GEOTECHNICAL SUBGRADE INSPECTION:** ASSUMED VALUES SHALL BE FIELD VERIFIED BY THE BUILDING OFFICIAL OR THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE.

4. **DESIGN SOIL VALUES:**

SAFETY FACTOR	1.5
ALLOWABLE FOUNDATION BEARING PRESSURE	1,500 PSF - ASSUMED

5. **FOUNDATIONS AND FOOTINGS:** FOUNDATIONS SHALL BEAR ON EITHER COMPETENT NATIVE SOIL OR COMPACTED STRUCTURAL FILL.

6. **FOOTING DEPTH:** TOP OF FOOTINGS SHALL BE AS SHOWN ON PLANS. BOTTOM OF FOOTINGS TO BE 36" MIN FROM FINISHED EXTERIOR GRADE.

03.20.00 CONCRETE REINFORCEMENT

1. **REFERENCE STANDARDS:** CONFORM TO:

1.1. ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE," SECTION 3 "REINFORCEMENT AND REINFORCEMENT SUPPORTS"

1.2. ACI SP-66 "ACI DETAILING MANUAL"

1.3. CRSI MSP "MANUAL OF STANDARD PRACTICE"

1.4. ANSI/AWS D1.4 "STRUCTURAL WELDING CODE - REINFORCING STEEL"

1.5. IBC CHAPTER 19 "CONCRETE"

1.6. ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"

1.7. ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS"

2. **SUBMITTALS:**

2.1. CONFORM TO ACI 301 SECTION 3.1.2. SUBMIT PLACING DRAWINGS SHOWING FABRICATION DIMENSIONS AND PLACEMENT LOCATIONS OF REINFORCEMENT AND REINFORCEMENT SUPPORTS.

2.2. INDUSTRY-WIDE EPDS ARE ACCEPTABLE AS AN ALTERNATE TO FACILITY-SPECIFIC EPDS UPON REQUEST.

3. **MATERIALS:**

REINFORCING BARS	ASTM A615, GRADE 60, DEFORMED BARS ASTM A706, GRADE 60, DEFORMED BARS
BAR SUPPORTS	CRSI MSP CHAPTER 3
TIE WIRE	16 GAGE OR HEAVIER, BLACK ANNEALED

3.1. ASSUME GRADE 60 REINFORCEMENT UNLESS NOTED OTHERWISE ON PLAN. REFERENCE PLANS FOR HIGH STRENGTH REINFORCING LOCATIONS, INDICATED BY (GR 80) OR (GR 100).

4. **FABRICATION:** CONFORM TO ACI 301 SECTION 3.2.2 AND ACI SP-66.

5. **WELDING:** BARS SHALL NOT BE WELDED UNLESS AUTHORIZED. WHEN AUTHORIZED, CONFORM TO ACI 301 SECTION 3.2.2.2 AND AWS D1.4, AND PROVIDE ASTM A706, GRADE 60 REINFORCEMENT.

6. **PLACING:** CONFORM TO ACI 301 SECTION 3.3.2. PLACING TOLERANCES SHALL CONFORM TO ACI 117.

7. **CONCRETE COVER:** CONFORM TO THE FOLLOWING COVER REQUIREMENTS UNLESS NOTED OTHERWISE ON PLAN:

CONCRETE CAST AGAINST EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	2"
BARS IN SLABS	3/4"
BARS IN WALLS	3/4"

8. **SPLICES:** CONFORM TO ACI 301 SECTION 3.3.2.7. REFER TO TYPICAL LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE IN THESE DRAWINGS FOR TYPICAL REINFORCEMENT SPLICES. REFER TO "COLUMN VERTICAL REINFORCING SPLICE SCHEDULE" AND "SHEAR WALL REINFORCING SPLICE SCHEDULE" IN THESE DRAWINGS FOR THOSE SPECIFIC ELEMENTS. SPLICES INDICATED ON INDIVIDUAL SHEETS SHALL CONTROL OVER THE SCHEDULE. MECHANICAL CONNECTIONS MAY BE USED WHEN APPROVED BY THE SER. FOR REINFORCING WITHIN THE LATERAL SYSTEM AND REINFORCING CONNECTING THE DIAPHRAGM SLAB TO THE LATERAL SYSTEM, MECHANICAL SPLICE STRENGTH IS INCREASED TO DEVELOP 125% OF THE SPECIFIED TENSILE STRENGTH OF THE SPLICES BAR.

9. **FIELD BENDING:** CONFORM TO ACI 301 SECTION 3.3.2.8. BAR SIZES #3 THROUGH #5 MAY BE FIELD BENT COLD THE FIRST TIME. SUBSEQUENT BENDS AND OTHER BAR SIZES REQUIRE PREHEATING. DO NOT TWIST BARS. BARS SHALL NOT BE BENT PAST 45°.

03.30.00 CAST-IN-PLACE CONCRETE

1. **REFERENCE STANDARDS:** CONFORM TO:

1.1. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"

1.2. IBC CHAPTER 19 "CONCRETE"

1.3. ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"

1.4. ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS"

2. **FIELD REFERENCE:** THE CONTRACTOR SHALL KEEP A COPY OF ACI FIELD REFERENCE MANUAL SP-15.

3. **CONCRETE MIXTURES:** CONFORM TO ACI 301 SECTION 4 AND IBC SECTION 1904.1.

4. **MATERIALS:** CONFORM TO ACI 301 SECTION 4.2.1 FOR REQUIREMENTS FOR CEMENTITIOUS MATERIALS, AGGREGATES, MIXING WATER, AND ADMIXTURES.

5. **SUBMITTALS:**

5.1. PROVIDE ALL SUBMITTALS REQUIRED BY ACI 301 SECTION 4.1.2. SUBMIT MIX DESIGNS FOR EACH MIX IN THE TABLE BELOW. SUBSTANTIATING STRENGTH RESULTS FROM PAST TESTS SHALL NOT BE OLDER THAN 24 MONTHS PER ACI 318 SECTION 26.4.3.1(B).

6. **MIX DESIGN REQUIREMENTS [NOTES 7.1 TO 7.8, TYPICAL UNO]**

FOOTINGS AND FOUNDATION WALLS	
STRENGTH, f'_c	4,500 PSI
TEST AGE	28 DAYS
NOMINAL MAXIMUM AGGREGATE	1"
SLABS ON GRADE	
STRENGTH, f'_c	3,000 PSI
TEST AGE	28 DAYS
NOMINAL MAXIMUM AGGREGATE	1"

7. **MIX DESIGN REQUIREMENT NOTES:**

7.1. W/C RATIO: WATER-CEMENTITIOUS MATERIAL RATIOS SHALL BE BASED ON THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS. MAXIMUM RATIOS ARE CONTROLLED BY STRENGTH NOTED IN THE TABLE OF MIX DESIGN REQUIREMENTS AND DURABILITY REQUIREMENTS GIVEN IN ACI 318 SECTION 19.3. W/C RATIOS MAY BE EXCEEDED WITH APPROVAL OF SER AS LONG AS POTENTIAL SHRINKAGE IMPACTS ARE ACCOUNTED FOR.

7.2. CEMENTITIOUS MATERIALS:

7.2.1. DCI ENCOURAGES THE REDUCTION OF CEMENT CONTENT AND/OR THE USE OF ALTERNATE CEMENTITIOUS MATERIALS. WHERE REQUIREMENTS OF THIS SECTION PROHIBIT INCLUSION OF ANY OF THESE MIXES, CONTACT DCI FOR FURTHER COORDINATION.

7.2.2. CEMENTITIOUS MATERIALS SHALL CONFORM TO THE RELEVANT ASTM STANDARDS LISTED IN ACI 318 SECTION 26.4.1.1.1(A).

7.3. AIR CONTENT: CONFORM TO ACI 318 SECTION 19.3.3.1. MINIMUM STANDARDS FOR EXPOSURE CLASS ARE NOTED IN THE TABLE. IF FREEZING AND THAWING CLASS IS NOT NOTED, AIR CONTENT GIVEN IS THAT REQUIRED BY THE SER. TOLERANCE IS ±1-1/2%. AIR CONTENT SHALL BE MEASURED AT POINT OF PLACEMENT.

7.4. AGGREGATES SHALL CONFORM TO ASTM C33.

7.5. SLUMP: CONFORM TO ACI 301 SECTION 4.2.2.1. SLUMP SHALL BE DETERMINED AT POINT OF PLACEMENT.

7.6. NON-CHLORIDE ACCELERATOR: NON-CHLORIDE ACCELERATING ADMIXTURE MAY BE USED IN CONCRETE PLACED AT AMBIENT TEMPERATURES BELOW 50°F AT THE CONTRACTOR'S OPTION.

7.7. ACI 318 SECTION 19.3.1.1 EXPOSURE CLASSES SHALL BE ASSUMED TO BE F0, S0, W0, AND C0 UNLESS DIFFERENT EXPOSURE CLASSES ARE LISTED IN THE TABLE OF MIX DESIGN REQUIREMENTS THAT MODIFY THESE BASE REQUIREMENTS.

7.8. MODULUS OF ELASTICITY SHALL BE A MINIMUM OF 57,000 * $\sqrt{f'_c}$ FOR ALL MIX DESIGNS.

8. **STRENGTH TESTING AND ACCEPTANCE:**

8.1. TESTING: OBTAIN SAMPLES AND CONDUCT TESTS IN ACCORDANCE WITH ACI 301 SECTION 1.7.3.3. ADDITIONAL SAMPLES MAY BE REQUIRED TO OBTAIN CONCRETE STRENGTHS AT ALTERNATE INTERVALS THAN SHOWN BELOW AND SHOULD BE STANDARD CURED PER ACI SECTION 26.5.3.2.

8.1.1. CURE FOUR CYLINDERS FOR 28-DAY TEST AGE. TEST ONE CYLINDER AT 7 DAYS, TEST TWO CYLINDERS AT 28 DAYS, AND HOLD ONE CYLINDER IN RESERVE FOR USE AS THE ENGINEER DIRECTS. AFTER 56 DAYS, UNLESS NOTIFIED BY THE ENGINEER TO THE CONTRARY, THE RESERVE CYLINDER MAY BE DISCARDED WITHOUT BEING TESTED FOR SPECIMENS MEETING 28-DAY STRENGTH REQUIREMENTS.

8.1.2. THE NUMBER OF CYLINDERS INDICATED ABOVE REFERENCE 6"x12" CYLINDERS. IF 4"x8" CYLINDERS ARE TO BE USED, ADDITIONAL CYLINDERS MUST BE CURED FOR TESTING OF THREE CYLINDERS AT TEST AGE PER THE TABLE OF MIX DESIGN REQUIREMENTS IN THESE GENERAL NOTES.

8.2. ACCEPTANCE:

8.2.1. STRENGTH IS SATISFACTORY WHEN THE AVERAGES OF ALL SETS OF THREE CONSECUTIVE TESTS EQUAL OR EXCEED THE SPECIFIED STRENGTH AND NO INDIVIDUAL TEST FALLS BELOW THE SPECIFIED STRENGTH BY MORE THAN 500 PSI.

9. **FORMWORK & RESHORING:** CONFORM TO ACI 301 SECTION 2. REMOVAL OF FORMS SHALL CONFORM TO SECTION 2.3.2 EXCEPT THE STRENGTH INDICATED IN SECTION 2.3.2.4 SHALL BE 0.75 * $f'_{c\ -c}$

10. **MEASURING, MIXING, AND DELIVERY:** CONFORM TO ACI 301 SECTION 4.3.

11. **HANDLING, PLACING, CONSTRUCTING AND CURING:** CONFORM TO ACI 301 SECTION 5. IN ADDITION, HOT WEATHER CONCRETING SHALL CONFORM TO ACI 305R AND COLD WEATHER CONCRETING SHALL CONFORM TO ACI 306R.

12. **CONSTRUCTION JOINTS:** CONFORM TO ACI 301 SECTIONS 2.2.2.5 AND 5.3.2.6. CONSTRUCTION JOINTS SHALL BE LOCATED AND DETAILED AS ON THE CONSTRUCTION DRAWINGS. SUBMIT ALTERNATE LOCATIONS PER ACI 301 SECTION 5.1.2.3(A) FOR REVIEW AND APPROVAL BY THE SER TWO WEEKS MINIMUM PRIOR TO FORMING. USE OF AN ACCEPTABLE ADHESIVE, SURFACE RETARDANT, PORTLAND CEMENT GROUT, OR ROUGHENING THE SURFACE IS NOT REQUIRED UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.

13. **EMBEDDED ITEMS:** POSITION AND SECURE IN PLACE EXPANSION JOINT MATERIAL, ANCHORS, AND OTHER STRUCTURAL AND NON-STRUCTURAL EMBEDDED ITEMS BEFORE PLACING CONCRETE. CONTRACTOR SHALL REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND ARCHITECTURAL DRAWINGS AND COORDINATE OTHER EMBEDDED ITEMS.

14. **POST-INSTALLED ANCHORS TO CONCRETE:** ANCHOR LOCATION, TYPE, DIAMETER, AND EMBEDMENT SHALL BE AS INDICATED ON DRAWINGS. REFERENCE THE POST-INSTALLED ANCHORS SECTION OF THESE GENERAL NOTES FOR APPLICABLE POST-INSTALLED ANCHOR ADHESIVES. ANCHORS SHALL BE INSTALLED AND INSPECTED IN STRICT ACCORDANCE WITH THE APPLICABLE ICC-EVALUATION SERVICE REPORT (ESR). SPECIAL INSPECTION SHALL BE PER THE TESTS AND INSPECTIONS SECTION OF THESE GENERAL NOTES.

15. **SHRINKAGE:** CONVENTIONAL AND POST-TENSIONED CONCRETE SLABS WILL CONTINUE TO SHRINK AFTER INITIAL PLACEMENT AND STRESSING OF CONCRETE. CONTRACTOR AND SUBCONTRACTOR SHALL COORDINATE JOINTING AND INTERIOR MATERIAL FINISHES TO PROVIDE ADEQUATE TOLERANCE FOR EXPECTED STRUCTURAL FRAME SHRINKAGE AND SHALL INCLUDE, BUT NOT BE LIMITED TO, CURTAIN WALL, DRYVIT, STOREFRONT, SKYLIGHT, FLOOR FINISH, AND CEILING SUPPLIERS. CONTACT ENGINEER FOR EXPECTED RANGE OF SHRINKAGE.

06.11.00 WOOD FRAMING

1. **REFERENCE STANDARDS:** CONFORM TO:

1.1. IBC CHAPTER 23 "WOOD"

1.2. ANSI/AWC NDS "NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION - WITH NDS SUPPLEMENT"

1.3. ANSI/AWC SDPWS "SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC"

1.4. APA PDS "PANEL DESIGN SPECIFICATION"

1.5. TPI 1 "NATIONAL DESIGN STANDARD FOR METAL-PLATE-CONNECTED WOOD TRUSS CONSTRUCTION"

1.6. BCSI B1 "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING, AND BRACING OF TRUSSES"

1.7. DSB-89 "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES"

1.8. APA REPORT TT-045B "MINIMUM NAIL PENETRATION FOR WOOD STRUCTURAL PANEL CONNECTIONS SUBJECT TO LATERAL LOADS"

1.9. APA REPORT TT-061C "1-5/16" THICK I-JOIST FLANGES AND DIAPHRAGM NAIL PENETRATION"

2. **SUBMITTALS:**

3. **IDENTIFICATION:** ALL SAWN LUMBER AND PRE-MANUFACTURED WOOD PRODUCTS SHALL BE IDENTIFIED BY THE GRADE MARK OR A CERTIFICATE OF INSPECTION ISSUED BY THE CERTIFYING AGENCY.

4. **MATERIALS:**

4.1. SAWN LUMBER: CONFORM TO GRADING RULES OF WWPA, WCLIB OR NLGA AND REQUIREMENTS BELOW. FINGER JOINTED STUDS ACCEPTABLE AT INTERIOR WALLS ONLY.

MEMBER USE	SIZE	SPECIES	GRADE
SILL PLATES (AT CONCRETE)	2x4, 3x4, 2x6, 3x6	PT DOUG FIR LARCH	NO. 2

4.2. WOOD STRUCTURAL SHEATHING (PLYWOOD): WOOD APA-RATED STRUCTURAL SHEATHING INCLUDES: ALL VENEER PLYWOOD, ORIENTED STRAND BOARD, WAFERBOARD, PARTICLEBOARD, T1-11 SIDING, AND COMPOSITES OF VENEER AND WOOD-BASED MATERIAL WITH T&G JOINT. ARCHITECT MAY DISALLOW OSB. CONFIRM WITH ARCHITECT. CONFORM TO "STRUCTURAL PLYWOOD" BASED ON PRODUCT STANDARD PS 1-19 BY THE U.S. DEPT. OF COMMERCE, AND "PERFORMANCE STANDARD FOR WOOD STRUCTURAL PANELS" BASED ON PRODUCT STANDARD PS 2-18 BY THE U.S. DEPT. OF COMMERCE AND "PANEL DESIGN SPECIFICATION" BASED ON APA D510 BY THE ENGINEERED WOOD ASSOCIATION. UNLESS NOTED OTHERWISE, SHEATHING SHALL COMPLY WITH THE FOLLOWING TABLE:

4.3. TIMBER CONNECTORS: SHALL BE "STRONG TIE" BY SIMPSON COMPANY AS SPECIFIED IN THEIR LATEST CATALOG. ALTERNATE CONNECTORS BY OTHER MANUFACTURERS MAY BE SUBSTITUTED PROVIDED THEY HAVE CURRENT ICC APPROVAL FOR EQUIVALENT OR GREATER LOAD CAPACITIES AND ARE REVIEWED AND APPROVED BY THE SER PRIOR TO ORDERING. CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE HALF OF THE NAILS OR BOLTS IN EACH MEMBER. WHERE CONNECTORS ARE IN EXPOSED EXTERIOR APPLICATIONS IN CONTACT WITH PRESERVATIVE TREATED WOOD (PT) OTHER THAN CCA, CONNECTORS SHALL BE EITHER BATCH HOT-DIPPED GALVANIZED (HDG), MECHANICALLY GALVANIZED (ASTM B695, CLASS 55 MINIMUM) STAINLESS STEEL, OR PROVIDED WITH 1.85 OZ/SF OF ZINC GALVANIZING EQUAL TO OR BETTER THAN SIMPSON ZMAX FINISH.

4.3.1. WHERE STRAPS ARE USED AS HOLD-DOWNS, NAIL STRAPS TO WOOD FRAMING JUST PRIOR TO DRYWALL APPLICATION, AS LATE AS POSSIBLE IN THE FRAMING PROCESS TO ALLOW THE WOOD TO SHRINK AND THE BUILDING TO SETTLE. PREMATURE NAILING OF THE STRAP MAY LEAD TO STRAP BUCKLING AND POTENTIAL FINISH DAMAGE.

4.4. FASTENERS (NAILS, BOLTS, SCREWS, ETC.) ATTACHING TIMBER CONNECTORS (JOIST HANGERS, POST CAPS AND BASES, ETC.) TO PT WOOD SHALL HAVE SIMILAR CORROSION RESISTANCE PROPERTIES (MATCHING PROTECTIVE TREATMENTS) AS THE PROTECTED CONNECTOR. FASTENERS (NAILS, BOLTS, SCREWS, ETC.) ATTACHING SAWN TIMBER MEMBERS OR SHEATHING (SHEAR WALLS) TO PT WOOD SHALL BE CORROSION RESISTANT; NAILS AND LAG BOLTS SHALL BE EITHER HDG (ASTM A153) OR STAINLESS STEEL. VERIFY THE SUITABILITY OF THE FASTENER PROTECTION/COATING WITH THE WOOD TREATMENT CHEMICAL MANUFACTURER/SUPPLIER.

4.4.1. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD.

4.5. LAG SCREWS/BOLTS: CONFORM TO ASTM A307 AND NDS CHAPTER 12.

4.5.1. LAG SCREW INSTALLATION SHALL CONFORM TO NDS SECTION 12.1.4 INCLUDING REQUIRED DRILLED LEAD AND/OR CLEARANCE HOLES.

4.6. NAILS AND STAPLES: CONFORM TO ASTM F1667 AND IBC SECTIONS 2303.6 AND 2304.10.

5. **NAILING REQUIREMENTS:** CONFORM TO IBC SECTION 2304.10. UNLESS NOTED OTHERWISE ON PLAN, NAIL PER IBC TABLE 2304.10.2. NAILING FOR ROOFS/FLOORS AND DIAPHRAGMS/SHEAR WALLS SHALL BE PER DRAWINGS. NAILS SHALL BE DRIVEN FLUSH AND SHALL NOT FRACTURE THE SURFACE OF SHEATHING. ALTERNATE NAILS MAY BE USED BUT ARE SUBJECT TO REVIEW AND APPROVAL BY THE SER. SUBSTITUTION OF STAPLES FOR THE NAILING OF RATED SHEATHING IS SUBJECT TO REVIEW BY THE SER PRIOR TO CONSTRUCTION.

6. **STANDARD LIGHT-FRAME CONSTRUCTION:** UNLESS NOTED OTHERWISE ON PLAN, CONSTRUCTION SHALL CONFORM TO IBC SECTION 2308.

7. **WOOD SHRINKAGE AND EXPANSION:** WOOD MATERIALS WILL EXPAND OR CONTRACT BASED ON RELATIVE CHANGES IN MOISTURE. THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION RELATED TO MITIGATING AND MANAGING THE EFFECTS OF CHANGES IN MOISTURE.

8. **MOISTURE CONTENT:** THE CONTRACTOR SHALL MAKE PROVISIONS DURING HANDLING AND CONSTRUCTION TO PREVENT THE STRUCTURAL WOOD MEMBERS FROM EXCEEDING THE APPROPRIATE MOISTURE CONTENT LIMITS. THE MOISTURE CONTENT FOR SOLID SAWN WOOD MATERIAL USED FOR THIS PROJECT SHALL NOT EXCEED 19%. THE MOISTURE CONTENT FOR ENGINEERED WOOD PRODUCTS, LAMINATED LUMBER AND SHEATHING SHALL NOT EXCEED THE LIMITS REQUIRED BY THE MANUFACTURER OR 12%, WHICHEVER IS LESS. THE MOISTURE CONTENT LIMITS MAY BE MORE STRINGENT FOR PARTICULAR PRODUCT REQUIREMENTS (E.G., FINISHES, CLADDING, INSULATION SYSTEMS, ETC.). THE CONTRACTOR SHALL REFER TO THE ARCHITECT'S DRAWINGS, PROJECT SPECIFICATIONS, OR INSTALLER/PRODUCT REQUIREMENTS FOR ADDITIONAL REQUIREMENTS.

9. **CLADDING COMPATIBILITY:** THE ARCHITECT/OWNER AND CONTRACTOR SHALL REVIEW THE CLADDING, FINISHES, INSULATION SYSTEMS, OTHER NON-STRUCTURAL COMPONENTS, AND CONSTRUCTION PROCEDURES PROPOSED FOR THE PROJECT WITH RESPECT TO THEIR PERFORMANCE OVER WOOD FRAMING. EIFS SYSTEMS SHOULD BE AVOIDED ON WOOD-FRAMED PROJECTS DUE TO PROBLEMS WITH MOISTURE PROOFING. NOTE THAT DCI IS NOT RESPONSIBLE FOR THE ATTACHMENT OF THE CLADDING TO THE WOOD STUDS WHICH NEEDS TO BE VERIFIED AND PROVIDED BY THE CLADDING SUPPLIER.

10. **STORAGE AND HANDLING:**

10.1. ALL STORAGE AND HANDLING IS TO BE A MEANS AND METHODS PROVIDED BY THE CONTRACTOR. THE CONTRACTOR IS TO DETERMINE THE BEST PRACTICES IN ORDER TO AVOID DAMAGE TO THE MEMBERS DURING STORAGE, SUCH AS FUNGAL GROWTH AND EXPOSURE TO WEATHER CONDITIONS. THE FOLLOWING ARE SUGGESTIONS TO AID THE CONTRACTOR. ALL MATERIALS SHOULD BE STORED LEVEL ON SITE AND MUST BE RAISED OFF THE GROUND A MINIMUM OF 6" BY MEANS OF BLOCKING AND SEPARATING SPACERS. IT IS RECOMMENDED THAT THE MATERIALS ARE COVERED WITH AN ADDITIONAL OPAQUE WATERPROOF MATERIAL (I.E. GOOD QUALITY TARPAULIN). WHEN MEMBERS ARE WRAPPED IN POLY OR ANOTHER MATERIAL WHICH MAY INHIBIT AIR FLOW, THE MATERIAL SHOULD HAVE SLOTS OR PERFORATIONS TO ALLOW FOR AIR FLOW AND PREVENT THE ACCUMULATION OF WATER AND/OR CONDENSATION. ENSURE THAT ALL EXPOSED MEMBERS ARE PROTECTED. PROTECTIVE MATERIAL SHOULD BE REMOVED ONLY AFTER THE ROOF OR STRUCTURE PROVIDING COVER IS INSTALLED. MEMBERS SHOULD BE CONSTANTLY PROTECTED FROM WEATHER DURING TRANSPORTATION, STORAGE, AND ERECTION.

10.2. MEMBERS THAT ARE TO BE EXPOSED TO VIEW IN THE FINISHED STRUCTURE SHOULD BE HANDLED USING NYLON OR FABRIC SLINGS TO PREVENT SURFACE DAMAGE. THE CONTRACTOR SHOULD ALSO USE MEANS TO PROTECT CORNERS OF MEMBERS TO PREVENT CRUSHING DURING TRANSPORTATION, STORAGE, AND ERECTION. ALL BOLTS SHOULD BE GALVANIZED OR MADE SURE THAT THEY ARE FREE OF OIL TO PREVENT STAINING. GLULAM MEMBERS SHOULD BE TREATED AND STAINED PER THE ARCHITECT OF RECORD'S RECOMMENDATIONS. THE FOLLOWING ARE PROVIDED IN ORDER TO HELP GUIDE THE CONTRACTOR IN THE BEST PRACTICES TO PRESERVE THE QUALITY OF WOOD PRODUCTS. THESE NOTES ARE NOT INTENDED TO BE COMPREHENSIVE AND AN END ALL SOLUTION AND SHOULD BE TAKEN UNDER CONSIDERATION BY THE CONTRACTOR AND SUPPLEMENTED AS NECESSARY.

11. **PRESERVATIVE TREATMENT (PT):** WOOD MATERIALS THAT ARE REQUIRED TO BE "TREATED WOOD" IN ACCORDANCE WITH IBC SECTION 2304.12 SHALL CONFORM TO THE APPROPRIATE STANDARDS OF THE AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) FOR SAWN LUMBER, GLUED LAMINATED TIMBER, ROUND POLES, WOOD PILES, AND MARINE PILES. FOLLOW AMERICAN LUMBER STANDARDS COMMITTEE (ALSC) QUALITY ASSURANCE PROCEDURES. PRODUCTS SHALL BEAR THE APPROPRIATE MARK. FASTENERS OR ANCHORS IN TREATED WOOD SHALL BE STAINLESS STEEL OR HOT-DIPPED GALVANIZED OR AS PER IBC SECTION 2304.10.6.

11.1. MUD SILL PLATES IN NORMALLY DRY INTERIOR APPLICATIONS MAY BE TREATED WITH SODIUM BORATE (DOT - DISODIUM OCTABORATE TETRAHYDRATE) AS RECENT STUDIES HAVE NOTED LESS CONNECTOR CORROSION POTENTIAL THAN OTHER AVAILABLE WOOD TREATMENTS OR THE ORIGINAL CCA TREATED SILL PLATES. WOOD TREATED WITH SODIUM BORATE SHALL BE PROTECTED DURING SHIPMENT, STORAGE AND INSTALLATION TO MINIMIZE LEACHING OF THE WATER-SOLUBLE PRESERVATIVE FROM THE LUMBER. SODIUM BORATE PRESSURE TREATED PLATES DO NOT REQUIRE HOT-DIPPED GALVANIZED CONNECTORS.

11.2. IF USING PRESERVATIVE TREATMENTS OTHER THAN CCA OR SODIUM BORATE, FASTENERS MUST BE HOT-DIPPED GALVANIZED OR STAINLESS-STEEL. WOOD TREATED WITH ALKALINE COPPER QUATERNARY (ACQ) REQUIRES STEEL COMPONENTS IN CONTACT WITH THE WOOD TO BE STAINLESS (NAILS, BOLTS, SCREWS, WASHERS, AND LAG SCREWS). FASTENERS (NAILS, BOLTS, SCREWS, WASHERS, AND LAG SCREWS) ATTACHING TIMBER CONNECTORS (JOIST HANGERS, POST CAPS AND BASES, ETC.) TO PT WOOD SHALL HAVE SIMILAR CORROSION RESISTANCE PROPERTIES (MATCHING PROTECTIVE TREATMENTS) AS THE PROTECTED CONNECTOR; THAT IS, USE HOT-DIPPED GALVANIZED OR STAINLESS-STEEL FASTENERS. FASTENERS (NAILS, BOLTS, SCREWS, WASHERS, AND LAG SCREWS) ATTACHING SAWN TIMBER MEMBERS OR SHEATHING (SHEAR WALLS) TO PRESSURE TREATED WOOD SHALL BE CORROSION RESISTANT (HOT-DIPPED GALVANIZED OR STAINLESS-STEEL).

11.3. ALWAYS VERIFY THE SUITABILITY OF THE FASTENER PROTECTION/COATING WITH THE WOOD TREATMENT CHEMICAL MANUFACTURER/SUPPLIER.

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GENERAL NOTES

DCI Job #: 25141-0187
ENCOR PASS DESIGN INC.

THIS SHEET IS INTENDED TO BE PRINTED IN COLOR TO FULLY UNDERSTAND THE INFORMATION BEING PRESENTED.

SI.2

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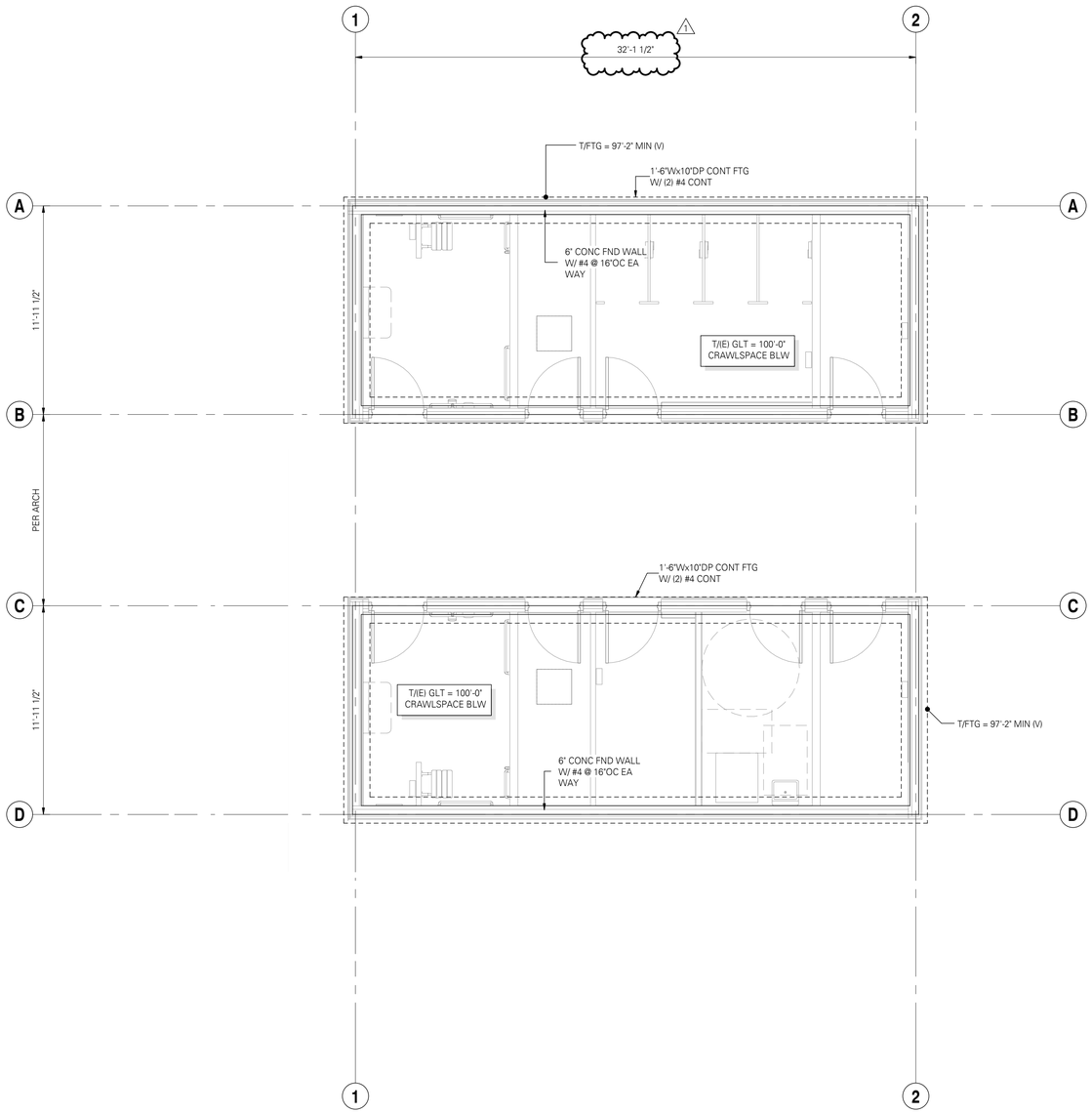
Exhibit A



FOUNDATION PLAN NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.1 AND S1.2.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED.
3. CONTRACTOR SHALL LOCATE AND VERIFY THE FOLLOWING WITH OTHERS PRIOR TO POURING CONCRETE: ALL DOOR OPENINGS IN FOUNDATION WALLS; DRAINS AND SLOPES; BLOCKOUTS FOR POOLS, SPAS, FREEZERS, COOLERS, PLUMBING, SPRINKLERS AND HVAC. ALL DUCTS, CHASES AND PIPES PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS. STAIR DETAILS AND GUARDRAILS PER ARCHITECTURAL DRAWINGS.
4. BOTTOM OF EXTERIOR FOOTINGS TO BE A MINIMUM OF 36" FROM FINISHED GRADE.
5. ALL FOOTINGS AND SLABS TO BEAR ON COMPETENT NATIVE SOIL. COORDINATE NATIVE SOILS CONDITION W/ GEOTECH AS REQUIRED.
6. CJ INDICATES CONTROL JOINT PER PLAN.
7. CONTRACTOR TO VERIFY TOP OF CONCRETE (T/CONC) WALL ELEVATIONS. MAINTAIN T/WALL ELEVATION A MINIMUM OF 8" ABOVE FINISH GRADE PER DETAILS.
8. MOISTURE PROOF ALL CONCRETE STEM WALLS PER ARCHITECT.
9. (E) INDICATES EXISTING CONDITION OR CONSTRUCTION
   (N) INDICATES NEW CONDITION OR CONSTRUCTION
   (V) INDICATES NEW OR EXISTING CONDITION OR CONSTRUCTION OR CONSTRUCTION TO BE VERIFIED.
10. TYPICAL DETAILS PER:
    - 1/S4.1 TYPICAL LAP SPLICE SCHEDULE
    - 3/S4.1 TYPICAL CORNER REINFORCING
    - 7/S4.1 TYPICAL PIPE AND TRENCH LOCATIONS AT CONCRETE STEMWALL/FOOTING

RIGGING, TRANSPORT, AND ERECTION OF EXISTING BUILDINGS IS THE RESPONSIBILITY OF THE CONTRACTOR AND TO BE FULLY COORDINATED WITH EXISTING CONDITIONS.

FOUNDATION PLAN

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

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FOUNDATION PLAN

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S2.1

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Exhibit A

01403B	GRADE 60 REINFORCING				
BAR SIZE	MISCELLANEOUS BARS		TOP BARS (see note #3)		HOOKED BARS
	Ld	Splice	Ld	Splice	Ldh
f'c = 4000psi					
#3	15	19	19	25	8
#4	19	25	25	33	10
#5	24	31	31	41	12

NOTES:

1. ALL TABULATED VALUES ARE IN INCHES.

2. VALUES FOR UNCOATED REINFORCING AND NORMAL WEIGHT CONCRETE WITH CLEAR SPACING > db, CLEAR COVER > db AND MINIMUM STIRRUPS OR TIES THROUGHOUT Ld OR CLEAR SPACING > 2db AND CLEAR COVER > db.

3. TOP REINFORCING = HORIZONTAL REINFORCING WITH MORE THAN 12" OF FRESH CONCRETE BELOW OR AS NOTED ON DOCUMENTS AS "TOP BAR".

1 LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE

SCALE: 3/4" = 1'-0" (01403B)

01901	TYPICAL ANCHOR BOLT SCHEDULE					
INSTALLATION TYPE	CAST-IN-PLACE (PRE-AUTHORIZED) [2]				DRILL-IN OPTIONS (SUBMITTAL REQUIRED) [3]	
BOLT TYPE	STANDARD J-BOLT	HEADED ANCHOR	THREADED ROD ANCHOR	SIMPSON "SSTB" ANCHOR BOLT	ADHESIVE ANCHOR	EXPANSION ANCHOR
EMBEDMENT REQUIREMENTS	7 1/2"	12x DIA	TACK 1/4" MIN	PER MFR	NOTE [4]	
LIMITS	5/8"Ø MAX	5/8"Ø THRU 2 1/2"Ø		FOR WOOD FRAME ONLY	NOT ALLOWED AT P-T SLAB	5/8"Ø THRU 1"Ø
DIA = ANCHOR BOLT DIAMETER (NOMINAL)						

PROJECTION NOTE [1]

MIN EMBED. UNO PER PLAN

NOTES:

[1] CONTRACTOR SHALL DETERMINE THE REQUIRED THREAD PROJECTION SUITABLE FOR THE THICKNESS OF MATERIAL BEING FASTENED PLUS GROUT ALLOWANCE, IF ANY, AND CONSTRUCTION TOLERANCES, UNO.

[2] CONTRACTOR MAY SELECT APPROPRIATE CAST-IN-PLACE ANCHOR BOLT OPTION WITHOUT SUBMITTAL.

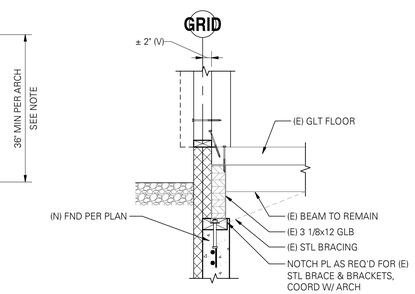
[3] DRILL-IN OPTIONS ARE NOT APPROPRIATE AT ALL CONDITIONS. IF DRILL-IN METHOD IS PREFERRED, SUBMIT MANUFACTURER'S INFORMATION, ALLOWABLE LOAD VS EMBEDMENT DATA AND LOCATIONS OF WHERE SUBSTITUTIONS ARE REQUESTED. ENGINEER WILL DETERMINE IF SUBSTITUTION IS APPROPRIATE FOR LOCATION AND LOADING.

[4] EMBEDMENT OF DRILL-IN ANCHORS SHALL BE PER ENGINEERS'S SUBMITTAL REVIEW COMMENTS. EMBEDMENT SHALL BE (9) NINE TIMES FOR NOMINAL ANCHOR DIAMETER, UNO.

[5] AT PRESSURE TREATED SILLS, PROVIDE HOT-DIPPED GALVANIZED OR STAINLESS STEEL ANCHORS WITH THE EXCEPTION OF SODIUM BORATE TREATED MUD SILLS PER "WOOD FRAMING" GENERAL NOTES (PRESERVATIVE TREATMENT).

2 TYPICAL ANCHOR BOLT SCHEDULE

SCALE: 1" = 1'-0" (01901M)



NOTES:

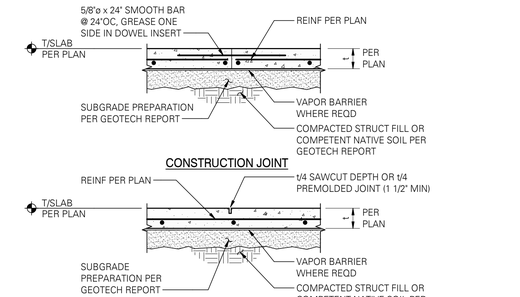
1. SPLICE LENGTHS PER LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE.

2. WALL REINFORCING PER PLAN OR ELEVATIONS, SECTIONS AND DETAILS.

3. AT FOOTINGS AND STEMWALLS, CORNER REINFORCING TO MATCH FOOTING AND STEMWALL HORIZONTAL REINFORCING.

3 PLAN - TYPICAL CORNER REINFORCING AT CONCRETE WALLS

SCALE: 3/4" = 1'-0" (03402-SINGLE MAT)



NOTES:

1. CONSTRUCTION JOINT IS A JOINT BETWEEN DIFFERENT POURS. CONTROL JOINT IS A CRACK CONTROL JOINT WITHIN THE SAME POUR.

2. USE "EARLY ENTRY DRY-CUT SAW" AS SOON AS POSSIBLE WITHOUT CAUSING RAVELING OF CONCRETE EDGES. SAWCUT ALONG SHORT DIRECTION OF POUR FIRST.

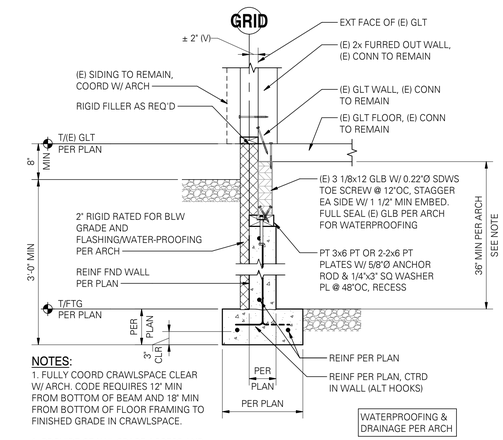
3. ALIGN A CONSTRUCTION OR CONTROL JOINT WITH RE-ENTRANT SLAB CORNERS, EACH WAY, TYPICAL.

4. CONSTRUCTION/CONTROL JOINT TO ENCLOSE APPROXIMATE SQUARE AREAS 225 SQUARE FEET MAXIMUM, WITH MAXIMUM PANEL ASPECT RATIO OF 1.3 TO 1.0.

5. CONTRACTOR TO SUBMIT CONSTRUCTION/CONTROL JOINT PLAN TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW/APPROVAL.

4 TYPICAL SLAB ON GRADE JOINT DETAILS WITH REINFORCING

SCALE: 3/4" = 1'-0" (03201)



NOTES:

1. FULLY COORD CRAWLSPACE CLEAR W/ ARCH. CODE REQUIRES 12" MIN FROM BOTTOM OF BEAM AND 18" MIN FROM BOTTOM OF FLOOR FRAMING TO FINISHED GRADE IN CRAWLSPACE.

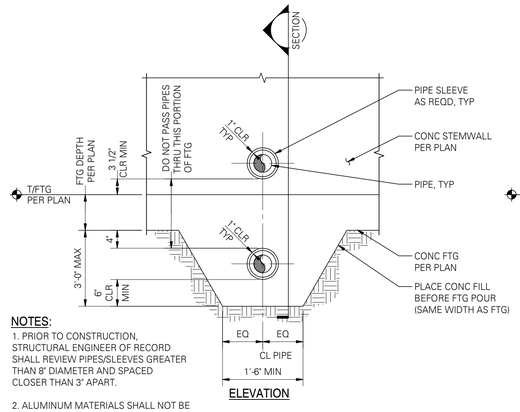
2. PROVIDE CRAWL SPACE ACCESS AND VENTING PER ARCHITECTURAL.

(E) RIM AND (E) BEAM AT (N) FND

5 TYPICAL (E)GLT FLOOR PLATE BEARING CRAWL SPACE FOUNDATION

SCALE: 3/4" = 1'-0" (03040M)

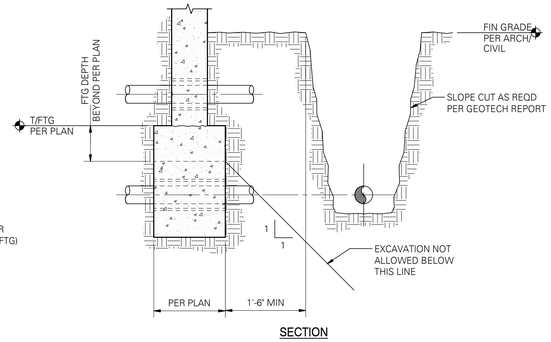
1



NOTES:

1. PRIOR TO CONSTRUCTION, STRUCTURAL ENGINEER OF RECORD SHALL REVIEW PIPES/SLEEVES GREATER THAN 8" DIAMETER AND SPACED CLOSER THAN 3" APART.

2. ALUMINUM MATERIALS SHALL NOT BE EMBEDDED IN CONCRETE.



7 TYPICAL PIPE AND TRENCH LOCATIONS AT CONCRETE STEMWALL/FOOTING

SCALE: 3/4" = 1'-0" (03190)

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CIVIL / STRUCTURAL

REST ROOM BUILDINGS FOR:
TEMPORARY SAFE OUTDOOR SPACE
1975 BROADWAY, MISSOULA MT 59808

PERMIT SET: 07/11/2025
REV 1: 03/17/2026

FOUNDATION DETAILS

DCI Job #: 25141-0187
[redacted] PASS DESIGN INC.

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Exhibit A

MECHANICAL LEGEND

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	(N)	NEW
AG	ABOVE GRADE	NC	NORMALLY CLOSED
ARCH	ARCHITECT OR ARCHITECTURAL	NO	NORMALLY OPEN
C.O.	CLEANOUT	RA	RETURN AIR
DN	DOWN	SA	SUPPLY AIR
(E)	EXISTING	SS	STAINLESS STEEL
FCO	FLOOR CLEANOUT	TYP	TYPICAL
FA	FRESH AIR	VTR	VENT THROUGH ROOF
MECH.	MECHANICAL	WCO	WALL CLEANOUT

CONVENTIONS

NEW WORK (DARK)
EXISTING (LIGHT)
DEMOLISH

1 / M1.0 — SECTION REFERENCE

SD-# / # CFM — AIR DEVICE MARK: AIR DEVICE NUMBER ON TOP, CFM ON BOTTOM

HVAC

SUPPLY AIR DUCT
RETURN AIR DUCT
RECTANGULAR DUCT
RECTANGULAR TO ROUND DUCT TRANSITION
HEEL TAP BRANCH
ELBOW W/ TURNING VANES
HIGH-EFFICIENCY TAKE-OFF WITH DAMPER
FLEXIBLE DUCT
HATCH INDICATES NEW MECHANICAL EQUIPMENT
HATCH INDICATES EXPOSED DUCTWORK AND AIR DEVICES

M — MOTOR OPERATED DAMPER
VOLUME DAMPER
BD — BACKDRAFT DAMPER
F — FIRE DAMPER
FS — COMBINATION FIRE/SMOKE DAMPER
T — THERMOSTAT
S — TEMPERATURE SENSOR
MS — MANUAL SWITCH
CO — CARBON MONOXIDE SENSOR
CO2 — CARBON DIOXIDE SENSOR
SUPPLY AIR DEVICE WITH AIR FLOW DIRECTIONS INDICATED
RETURN AIR DEVICE

PLUMBING AND HYDRONIC

C	DOMESTIC COLD WATER	CD	CONDENSATE DRAIN
SC	SOFTENED COLD WATER	IRR	IRRIGATION PIPING
H	DOMESTIC HOT WATER	LPS	LOW PRESSURE STEAM
R	HOT WATER RECIRCULATION	MPS	MEDIUM PRESSURE STEAM
	WASTE	GCR	GRAVITY CONDENSATE RETURN
SW	SANITARY WASTE	PCR	PUMPED CONDENSATE RETURN
GW	GREASE WASTE	NG	NATURAL GAS
	VENT	LPG	PROPANE PIPING
HWS	HEATING WATER SUPPLY	CA	COMPRESSED AIR PIPING
HWR	HEATING WATER RETURN	VAC	VACUUM PIPING
CWS	CHILLED WATER SUPPLY	NO	NITROUS OXIDE GAS PIPING
CWR	CHILLED WATER RETURN	RD	ROOF DRAINAGE PIPING
GWS	GROUNDWATER SUPPLY	RDO	ROOF DRAIN OVERFLOW PIPING
GWR	GROUNDWATER RETURN		

TEE UP
TEE DOWN
ELBOW UP
ELBOW DOWN
CLEANOUT
CLEANOUT
FLOOR DRAIN
FLOOR SINK

COLD SUPPLY STOP
HOT SUPPLY STOP
P-TRAP
P-TRAP
HOSE END DRAIN
CAP
UNION

GLOBE VALVE
ISOLATION VALVE
PRESSURE REDUCING VALVE
CHECK VALVE
BACKFLOW PREVENTOR
GAS VALVE
MANUAL BALANCE VALVE
RELIEF VALVE
TWO-WAY CONTROL VALVE
THREE-WAY CONTROL VALVE
CONCENTRIC REDUCER
ECCENTRIC REDUCER

TRAP
TEST PLUG
STRAINER
THERMOMETER
IMMERSION WELL & SENSOR
PUMP
FIRE SPRINKLER HEAD
METER
MANUAL AIR VENT
PIPING ISOLATOR
GAUGE
POINT OF CONNECTION

GENERAL SPECIFICATIONS

PART 1-GENERAL

All work shall be performed in accordance with the governing codes. Comply with the requirements of the local jurisdiction and all supplying utilities. Comply with EPA Safe Water Drinking Act, including all lead-free requirements.

The intent of the drawings is to depict fully functioning new and revised HVAC and plumbing systems. All incidental and necessary items that are normally required for the type of work shown on the plans, but that are not explicitly shown on the plans, shall be included in the work.

All work shall be performed in a neat and professional manner. The appearance of the finished work is important to the owner. All piping shall be run parallel to building structure. All penetrations shall be neat.

All materials shall be new and in good condition.

Contractor shall obtain and pay for all necessary permits.

Contractor shall provide engineer with a complete copy of all comments received from the City or County Building Inspection department, Health Department, and all other reviewing agencies. Comments shall be provided within five days of the contractor receiving them. Engineer shall not be held responsible for delays to the project resulting from untimely receipt of comments from the contractor.

Contractor may substitute fixtures and equipment by alternate manufacturers provided they are of substantially equivalent quality and capacity.

Contractor shall notify Engineer (through Architect) within 24 hours if he is notified, becomes aware of himself, or is of the opinion, that there is an error or omission in the specifications or drawings. Engineer shall have seven calendar days to address any alleged error or omission. If Contractor does not notify Engineer within 24 hours and/or if Contractor continues to work in and around the area of the alleged error or omission prior to a resolution of the alleged error or omission, Engineer shall not be liable for any rework required to correct the alleged error or omission. Rework shall be defined as any additional costs above what the Owner would have incurred if the alleged error were not in the construction drawings and/or any materials or equipment omitted were included in the construction drawings.

PART 2–COORDINATION

Contractor shall recognize that plans are diagrammatic in nature.

Consult all drawings of each contract for the project to predetermine that work and equipment will fit as planned. Check the location of piping, ducts, equipment, etc., to determine that all work clears openings, structural members, cabinets, lights, outlets, and other work or equipment having fixed locations.

Plan all work so that it proceeds with a minimum of interference with other trades. All openings required in the building construction for the installation of mechanical work are the responsibility of the trade providing such work unless otherwise noted or shown. Provisions shall be made for all special frames, openings, and pipe sleeves as required.

Cooperate with other trades in furnishing material and information for correct location, in proper sequence, of all wiring, openings, clearances, access doors, and the like.

If at any time and in any case a change in location of piping, ducts, equipment, etc., becomes necessary due to obstacles or the installation of the work of other trades shown on any of the project drawings, make such required changes at no extra cost for materials or labor.

Cutting and patching shall be the responsibility of the trade requiring cutting and patching.

PART 3–ACCESS TO EQUIPMENT

Locate all motors, valves, control devices, specialties, fire dampers, etc., to provide easy access for operation, repair, and maintenance. If concealed in ductwork, walls, ceilings or other locations, provide and install access doors. Access doors in fire-rated assemblies shall have fire-rating suitable for assembly.

PART 4–SHOP DRAWINGS

Provide Architect and Engineer each with one electronic copy of submittals on all equipment, fixtures, materials and other manufactured items. In general, all submittals and shop drawings must be received and accepted prior to construction. Engineer will have 10 business days to review submittals.

All submittals shall include the mark of the piece of equipment being submitted on; if a mark was not indicated on the drawings or elsewhere in these specs, a short description of the item may be used instead. The model number of proposed item shall be highlighted on the cut sheets. All proposed options or accessories shall also be highlighted. Submittals that do not contain this identifying information shall be REJECTED.

PART 5–TESTING AND BALANCING

Contractor shall adjust all exhaust fans to the quantities shown on the drawings, with variances from design as allowed by the current edition of the National Environmental Balancing Bureau Standards. Submit one electronic copy of the test and balance report to the Engineer.

PART 6–OPERATING TESTS AND ADJUSTMENTS

After substantial completion of the work, but before final payment is made, run a test over a sufficient period of time to prove the proper capacity and performance of all apparatus and of the systems as a whole. Test and adjust alarms for satisfactory operation. Thoroughly check all safety and protection devices to assure proper operation and protection.

PART 7–INSTRUCTIONS IN OPERATION

At the conclusion of the project, Contractor shall give complete operating and maintenance instructions to the operating personnel selected by the Owner.

PART 8–WARRANTY AND SERVICE

Contractor shall provide one year warranty on all work and equipment commencing from the date of substantial completion.

Contractor shall provide all service, maintenance, and trouble-shooting on all mechanical work through the date of completion and continuing for a period of 30 days after that date.

PART 9–MAINTENANCE MANUALS

At the conclusion of the project, Contractor shall provide one set of the maintenance manuals to Owner. Manuals shall be either paper or electronic as directed by Owner. Collect literature in like new condition for all pieces of mechanical equipment. If manuals are to be paper, assemble literature in three-ring, loose-leaf binders with appropriately labeled dividers.

HVAC SPECIFICATIONS

PART 1—DUCTWORK

Quality Assurance:
- All ductwork shall be fabricated and installed in accordance with the following manuals, standards and guides:
  - HVAC Duct Construction Standards, most current edition, by SMACNA.
  - NFPA 90A: "Standard for the Installation of Air Conditioning and Ventilating Systems of Other than Residence Type," most current edition, by NFPA.
- All ductwork shall be braced and supported for Seismic Hazard Level B, as shown in the "Seismic Restraint Manual Guideline for Mechanical Systems," most recent edition, published by SMACNA.

Galvanized Steel Ductwork:
- New supply, return, exhaust, and outdoor air ductwork shall be galvanized steel. All ductwork shall be reinforced for 1" positive or negative pressure, as appropriate.
- Construct ducts of galvanized steel in the gauges and with reinforcement as specified in Chapter 2 of the HVAC Duct Construction Standards.

Dryer Vent:
- Dryer vent in non-fire-rated walls shall be aluminum, sized per SMACNA guidelines.
- Flexible dryer vent is not allowed.

Installation:
- All sizes shown on the plans are clear inside dimensions.
- Seal new interior ductwork in accordance with requirements for Seal Class B.
- Ducts shall be free from sag, sway, deformation, collapse, or vibration.
- Adhere to drawings as closely as possible. If approved by Engineer prior to installation, the contractor may vary run and scope of ducts and make offsets during the progress of work required to meet structural or other interferences. If approved by Engineer prior to installation, Contractor may also run ducts in sizes larger than those shown to standardize or eliminate custom-made fittings.
- Provide single thickness turning vanes at all rectangular elbows.

PART 2—AIR DISTRIBUTION SPECIALTIES

Wall Caps:
- Wall caps shall be black or dark bronze.
- Wall caps for bathroom and domestic range hood exhaust shall have screens and dampers.
- Wall caps serving clothes dryers shall have dampers but no screen.

Dryer Vent Boxes:
- Provide 22 gauge minimum aluminumized steel, recessed dryer vent box, Dryerbox DB series or equivalent. Provide in thickness required for wall the box is to be installed in.
- Vent box shall be installed behind dryer so long as there are no conflicts with other trades. If installation in wall behind dryer is not possible, box may be installed in sidewall adjacent to dryers.
- Install dryer box near dryer vent connection; coordinate with manufacturer's installation instructions.
- If dryer box has oval connection (3.5"" wall), provide transition or adapter as necessary to connect to 4" round dryer vent in wall.

PART 3—MECHANICAL EQUIPMENT

Electric Wall Heaters:
- Provide electric forced-air wall or toe-kick heater as manufactured by Cadet, or equivalent.
- Install heaters where shown on drawings and in accordance with manufacturer's instructions.
- Observe all required clearances from combustibles.
- Locate thermostats where indicated on drawings. Coordinate with Owner for schedule and set points.

Bathroom Exhaust Fans:
- Provide Panasonic Whisper Green ceiling fans, or equivalent, as scheduled.
- Install fans in the locations shown on the drawings. Comply with manufacturer's installation instructions; the instructions take priority over any location or other detail shown on the construction drawings. Support from substantial structure.
- Exhaust fans shall be wired to operate on high whenever the lights in the room are turned on; coordinate with electrical as required. See fan schedule for additional settings at fans for continuous ventilation and time delay.

PART 4—CONTROLS

Energy Recovery Ventilator and Duct Heater:
- ERV shall be controlled by a time clock or digital controller. Unit shall run at scheduled cfm continuously during the occupied period. During the unoccupied period, ERV shall operate whenever the lights in the room are turned on.
- Whenever the ERV is running, the duct heater shall modulate to hold a 35 F discharge air temperature.
- Coordinate with owner for occupancy schedule.

MECHANICAL SHEET INDEX

GOVERNING CODES

2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 UNIFORM PLUMBING CODE
2021 INTERNATIONAL FUEL GAS CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2020 NATIONAL ELECTRIC CODE

GENERAL NOTES

THESE BUILDINGS ARE BEING RELOCATED FROM ANOTHER SITE. BUILDING A HAS NO FLOOR PLAN CHANGES. BUILDING B INCLUDES SOME FLOOR PLAN CHANGES. NEW WORK IS INDICATED ON THE FOLLOWING SHEETS.

COMPLETE HVAC AND PLUMBING PLANS AND SCHEDULES FROM THE ORIGINAL BUILDING DESIGN ARE BEING PROVIDED FOR REFERENCE.

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REST ROOM BUILDINGS FOR:
TEMPORARY SAFE OUTDOOR SPACE
1975 BROADWAY, MISSOULA MT 59808

PLAN REVIEW: 07.11.2025
BID SET: 06.26.2026

GENERAL AND HVAC SPECIFICATIONS

edinc Job #: 24.119

THIS SHEET IS INTENDED TO BE PRINTED IN COLOR TO FULLY UNDERSTAND THE INFORMATION BEING PRESENTED.

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Exhibit A

EXISTING ELECTRIC DUCT HEATER SCHEDULE

MARK	MANUFACTURER AND MODEL	KW	CFM	DUCT COLLAR	VOLT/PHASE	COMMENTS
DH-1	NEPTRONIC DF CF00H	3	200	8"	208 V / 1Ø	1, 2

1. UNIT TO HAVE FULLY MODULATING DISCHARGE AIR TEMPERATURE CONTROL.
2. PROVIDE WITH NEMA 1 CONTROL PANEL, CONTROLLER, MANUAL AND AUTOMATIC THERMAL CUTOUTS, ELECTRONIC AIR FLOW SENSORS, CONTACTORS, AND OTHER ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.

EXISTING ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	MANUFACTURER AND MODEL	SUPPLY CFM	SUPPLY E.S.P.	SUPPLY FAN HP	EXHAUST CFM	EXHAUST E.S.P.	EXHAUST FAN HP	VOLT/PH	COMMENTS
ERV-1	FANTECH SER 260D	200	0.60"	FRAC.	200	0.60"	FRAC.	120V / 1Ø	1

1. SEE SPECIFICATIONS FOR CONTROL SEQUENCE.

EXISTING AIR DEVICE SCHEDULE

MARK	MANUFACTURER AND NUMBER	FACE SIZE	NECK SIZE	THROW	FINISH	MOUNTING/FRAME	OBD
SD-1	SHOEMAKER 904	12 X 6	12 X 6	DEFL A	WHITE	SURFACE MOUNT	NO
RG-1	SHOEMAKER 905	14 X 6	14 X 6	-	WHITE	SURFACE MOUNT	NO
L-1	RUSKIN ELF6375DX	12" W X 12" H	12 X 12	-	NOTE 3	SURFACE MOUNT	NO

EXISTING EXHAUST FAN SCHEDULE

MARK	MANUFACTURER AND NUMBER	CFM	E.S. P. (IN. W. C.)	RPM	SONES (AT 5 FT)	H.P.	VOLT/PHASE	FLA	COMMENTS
EF-1	PANASONIC FV-0511VKS2	70	0.25"	1112	0.5	FRAC.	120V / 1Ø	0.09	1, 2, 3

1. PROVIDE WITH CONDENSATION SENSOR MODULE.
2. FAN SHALL BE CONTROLLED BY A TIME-CLOCK OR OTHER CONTROLLER. FAN SHALL RUN AT SCHEDULED CFM CONTINUOUSLY DURING OCCUPIED PERIOD. COORDINATE WITH OWNER FOR SCHEDULE. DURING UNOCCUPIED PERIOD, UNIT SHALL OPERATE WHENEVER LIGHTS IN ROOM ARE TURNED ON OR WHEN THE CONDENSATION SENSOR DETECTS RELATIVE HUMIDITY ABOVE 50%.
3. SET CONTINUOUS VENTILATION TO 0 CFM AND TIME DELAY TO 5 MINUTES.

EXISTING ELECTRIC HEATER SCHEDULE

MARK	MANUFACTURER AND MODEL	CAPACITY	CFM	VOLT/PHASE	AMPERAGE	COMMENTS
EH-1	NOT USED					
EH-2	CADET CS051	500 WATTS	45	120V/ 1Ø	4.2	1, 2, 5, 6
EH-3	CADET CSC208	2000 WATTS	45	208V/ 1Ø	9.6	1, 2, 8
EH-4	QMARK CDF-558	5000 WATTS	300	208V/ 3Ø	12.9	1, 2, 5, 7, 8

1. PROVIDE UNIT COMPLETE WITH HEATER, FAN, BACK BOX AND WHITE GRILLE.
2. ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE BERKO, CADET, KING, MARKEL, MARLEY, AND QMARK.
5. HEATER TO BE CEILING MOUNTED.
6. PROVIDE WALL-MOUNTED NON-PROGRAMMABLE THERMOSTAT.
7. PROVIDE WITH MODEL CDFSENW SURFACE ENCLOSURE.
8. PROVIDE WALL-MOUNTED 7-DAY PROGRAMMABLE THERMOSTAT WITH LOCKING COVER.

NEW EXHAUST FAN SCHEDULE

MARK	MANUFACTURER AND NUMBER	CFM	E.S. P. (IN. W. C.)	RPM	SONES (AT 5 FT)	H.P.	VOLT/PHASE	FLA	COMMENTS
EF-2	PANASONIC FV-0511VKS2	70	0.25"	1112	0.5	FRAC.	120V / 1Ø	0.09	1, 2

1. FAN SHALL BE CONTROLLED BY A TIME-CLOCK OR OTHER CONTROLLER. FAN SHALL RUN AT SCHEDULED CFM CONTINUOUSLY DURING OCCUPIED PERIOD. COORDINATE WITH OWNER FOR SCHEDULE. DURING UNOCCUPIED PERIOD, UNIT SHALL OPERATE WHENEVER LIGHTS IN ROOM ARE TURNED ON OR WHEN THE CONDENSATION SENSOR DETECTS RELATIVE HUMIDITY ABOVE 50%.
2. SET CONTINUOUS VENTILATION TO 0 CFM AND TIME DELAY TO 5 MINUTES.

NEW ELECTRIC HEATER SCHEDULE

MARK	MANUFACTURER AND MODEL	CAPACITY	CFM	VOLT/PHASE	AMPERAGE	COMMENTS
EH-5	CADET CS051	500 WATTS	45	120V/ 1Ø	4.2	1, 2, 5
EH-6	CADET CSC208	2000 WATTS	45	208V/ 1Ø	9.6	3, 4, 5

1. PROVIDE UNIT COMPLETE WITH HEATER, FAN, BACK BOX, SURFACE-MOUNTING DRAM, WHITE GRILLE, AND UNIT-MOUNTED THERMOSTAT.
2. SET THERMOSTAT TO 55° F.
3. PROVIDE UNIT COMPLETE WITH HEATER, FAN, BACK BOX AND WHITE GRILLE.
4. PROVIDE WALL-MOUNTED 7-DAY PROGRAMMABLE THERMOSTAT WITH LOCKING COVER.
5. ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE BERKO, KING, MARKEL, MARLEY, AND QMARK.

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REST ROOM BUILDING B FOR:
TEMPORARY SAFE OUTDOOR SPACE
1975 BROADWAY, MISSOULA MT 59808

PERMIT SET: 12.29.2025
BID SET:

HVAC SCHEDULES

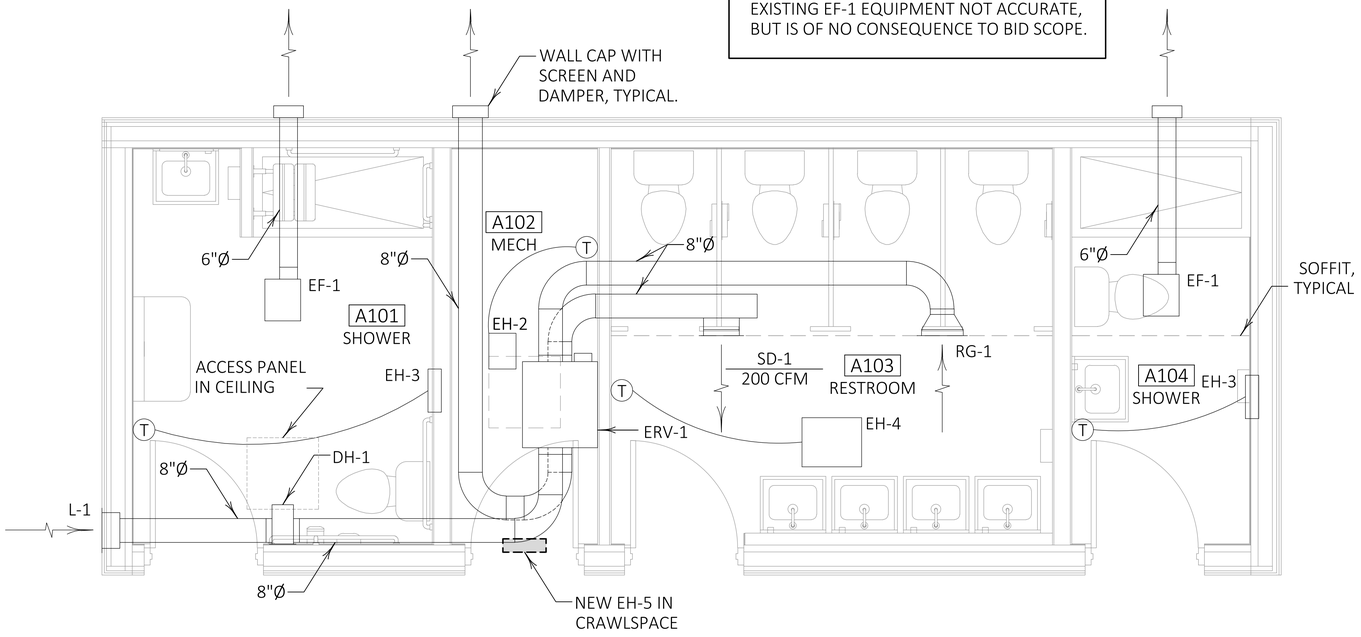
edinc Job #: 24.119

THIS SHEET IS INTENDED TO BE PRINTED IN COLOR TO FULLY UNDERSTAND THE INFORMATION BEING PRESENTED.

M0.1

Exhibit A

NOTE TO CONTRACTOR:
ROUTING OF EXHAUST DUCT SHOWN FOR EXISTING EF-1 EQUIPMENT NOT ACCURATE, BUT IS OF NO CONSEQUENCE TO BID SCOPE.



1 / M0.1 BUILDING A HVAC PLAN

1/4" = 1'-0"

GENERAL NOTES

1. ALL HVAC EQUIPMENT AND MATERIALS, EXCEPT EH-5 IN CRAWLSPACE, ARE EXISTING WITH NO CHANGES AND ARE SHOWN FOR REFERENCE ONLY.

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REST ROOM BUILDINGS FOR:
TEMPORARY SAFE OUTDOOR SPACE
1975 BROADWAY, MISSOULA MT 59808

PLAN REVIEW: 07.11.2025
BID SET: 06.26.2026

BUILDING A HVAC PLAN

edinc Job #: 24.119

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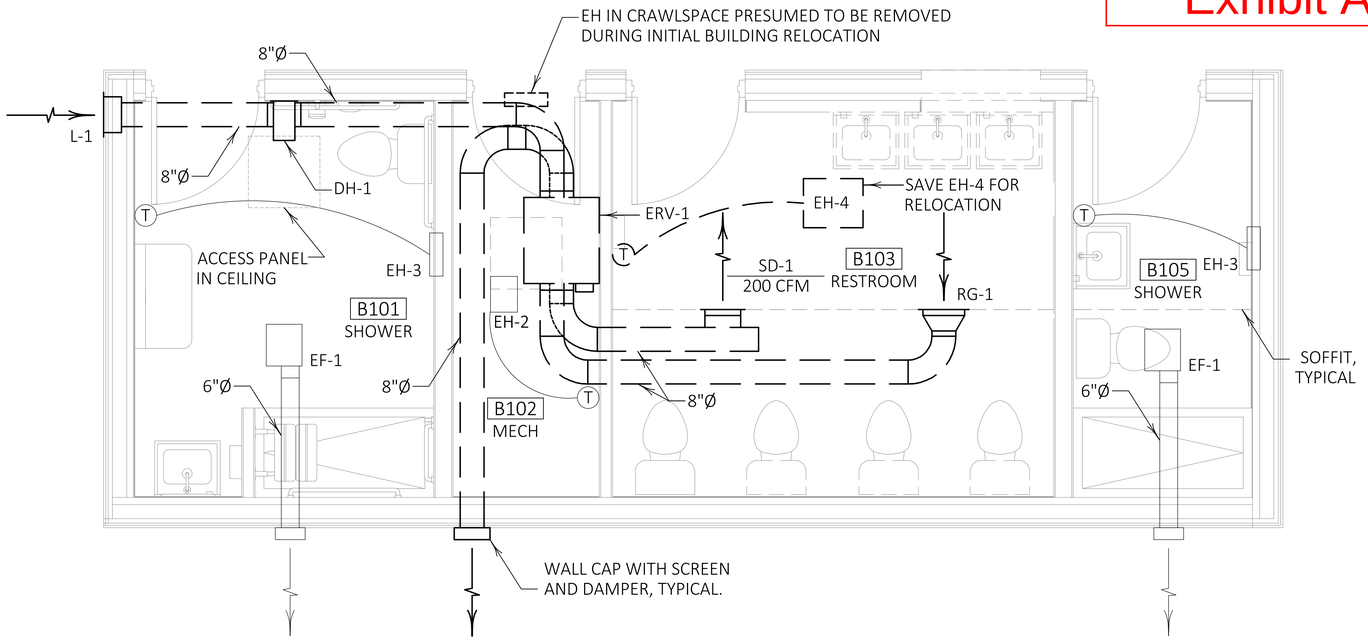
M1.1

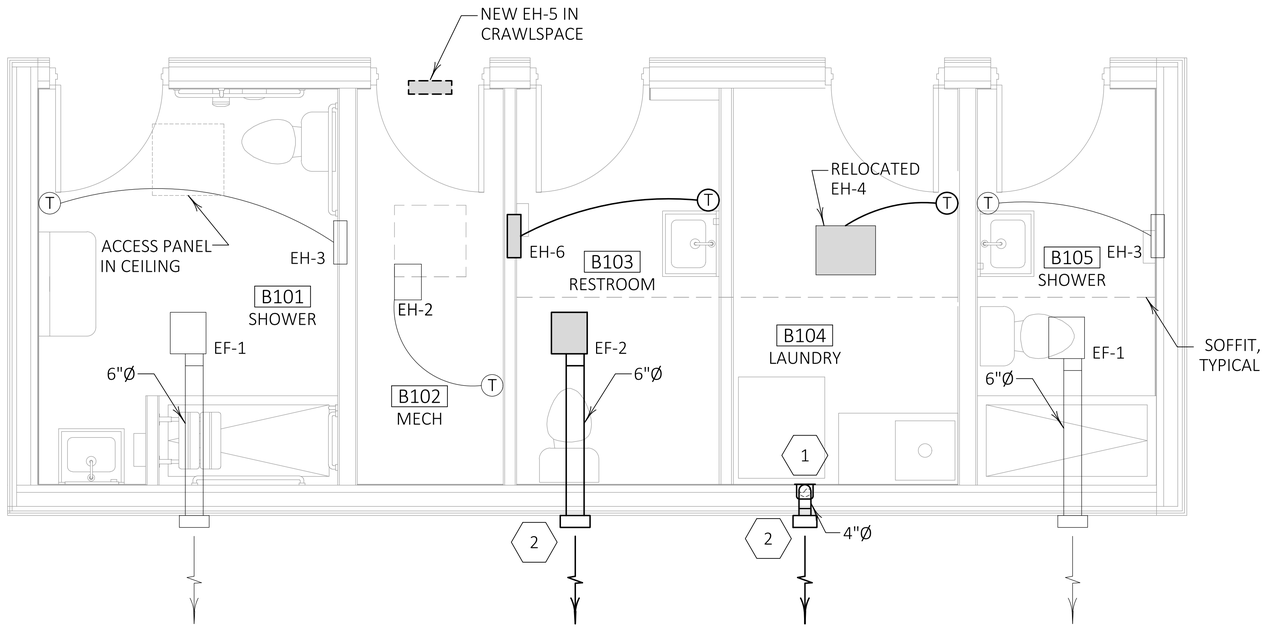
Exhibit A



1 / M1.2 BUILDING B HVAC DEMOLITION PLAN

1/4" = 1'-0"

NOTE TO CONTRACTOR:
ROUTING OF EXHAUST DUCT SHOWN FOR EXISTING EF-1 EQUIPMENT NOT ACCURATE, BUT IS OF NO CONSEQUENCE TO BID SCOPE.



2 / M1.2 BUILDING B HVAC PLAN

1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. DO NOT SCALE FROM DRAWINGS.
2. COORDINATE MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AIR DEVICE, ETC. INSTALLATION AND LOCATION WITH OTHER ITEMS AND TRADES, SUCH AS ELECTRICAL, LIGHTING, FIRE SPRINKLER, ETC.
3. DO NOT RUN DUCTWORK OR PIPING OVER OR WITHIN NEC REQUIRED SERVICE CLEARANCE OF ELECTRICAL PANELS AND LOAD CENTERS.
4. UNLESS OTHERWISE NOTED ON THE DRAWINGS, AIR DEVICE LOCATIONS MAY BE ADJUSTED TO MISS LIGHTING, STRUCTURE OR OTHER OBSTACLES.
5. MOUNT THERMOSTATS WITH TOP AT 48" AFF.
6. MOUNT ELECTRIC WALL HEATERS WITH BOTTOM OF UNIT AT 12" AFF.

CONSTRUCTION NOTES

1. 4"Ø DOWN IN WALL TO DRYER BOX (SEE SPECS). COORDINATE DRYER BOX MOUNTING HEIGHT WITH DRYER MODEL.
2. HIGH SIDEWALL WALL CAP.

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REST ROOM BUILDINGS FOR:
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PLAN REVIEW: 07.11.2025
BID SET: 08.26.2026

BUILDING B HVAC PLANS

edinc Job #: 24.119

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M1.2

Exhibit A

PLUMBING SPECIFICATIONS

PART 1—PIPING MATERIALS

Quality Assurance:
- Comply with all requirements of the 2021 Uniform Plumbing Code (UPC) as officially amended for local conditions.
- Comply with all requirements of the 2021 International Energy Conservation Code (IECC) as officially amended for local conditions.

Seismic Bracing
- All new piping in excess of 1" size shall be braced and supported for Seismic Design Category D as shown in Mason Industries "Seismic Restraint Guidelines," 2005 edition. In addition to seismic load, pipe expansion loads must also be considered
- Pipe supports and anchors must conform to the 2018 International Building Code.
- Any system of pipe supporting and anchoring shall have supporting engineering data bearing the seal of the licensed professional engineer in the employ of the company furnishing the support and anchor systems.
- Whenever possible, pipes may be located on sufficiently short hangars as to not require seismic treatment if allowed by the suspension system.

Material Generally
- Copper Pipe and Fittings:
  - Copper Pipe: Seamless ASTM B88 Type L or K, annealed or hard drawn, as specified.
  - Copper Tubing: ASTM B280, Type ACR hard drawn.
  - Fittings for Copper Pipe: Wrought Copper Fittings: ANSI B16.22, or Cast Bronze Fittings: ANSI B16.18.
- PEX Piping
  - PEX-a and PEX-b piping produced in compliance with ASTM F876 are allowed.
  - Joints shall be F1960 style
  - PEX pipe and fittings used in potable water systems shall be certified by NSF International for use in potable water systems.
- PVC Plastic Pipe and Fittings:
  - Schedule 40 DWV conforming to ASTM D2672-80 or D1785-76 with ASTM D2466-78 solvent weld socket fittings.
  - Joints shall be made with primer and cement in accordance with manufacturer's recommendations, and conforming to ASTM D2564-80.

Domestic Water Piping
- Piping exposed in crawl space and mechanical rooms shall be Copper.
- Piping concealed in walls and above ceilings may be either PEX or Copper, unless otherwise noted on the drawings.

Drainage Waste and Vent Piping
- All above and below ground drainage and vent piping within five feet of the building shall be Schedule 40 PVC with solvent weld sanitary fittings, except as follows:
  - Where indicated on the drawings to be a different material,
  - The first 20 feet downstream of any floor drain or floor sink receiving discharge from a commercial dishwasher, glasswasher, or other appliance that uses rinse water in excess of 160 F.
  - All exposed sanitary piping in finished rooms used in connection with the plumbing fixtures shall be chromium plated brass with plated cast brass fittings.
- Low temperature (fluids under 140 F) drains from mechanical equipment such as cooling coils and make-up air units shall be Schedule 40 PVC with solvent weld fittings.
- High temperature (fluids over 140 F) drains from mechanical equipment such as furnaces, boilers, and water heaters shall be Schedule 40 CPVC with solvent weld fittings or PEX piping.

PART 2—PIPE INSULATION

Quality Assurance:
- Insulation assemblies consisting of insulation, jacket and facing, and adhesives for jacket and facing shall have a composite smoke and fire rating as tested by procedure ASTM E-84, NFPA 255, and UL 723 which does not exceed a rating of 25 for flame spread or 50 for smoke developed. This specification shall apply to all insulation other than elastomeric type.
- Accessories such as adhesives, mastics, cements, tapes, and cloth for fittings shall have the same component rating as listed above.

Fiberglass Pipe Insulation:
- Pipe insulation shall be fibrous glass accurately molded to conform to the outside diameter of the pipe. Insulation shall be one piece snap-on type with white paper all-service jacket.
- Insulation shall be suitable for use on either hot or cold water pipes with temperature range of 35 degrees F to 400 degrees F. Thermal conductivity shall not exceed 0.26 at 100 degrees F mean temperature.

Foam Pipe Insulation:
- Insulation shall be a flexible, closed-cell elastomeric pipe insulation: AP Armaflex, AC Accoflex, or equivalent by alternate manufacturer. Adhesive shall be Armaflex 520, 520 Black or 520 BLV Adhesive, or equivalent manufacturer. The insulation must conform to ASTM C534 Grade 1, Type I.
- Insulation materials shall have a closed cell structure to prevent moisture from wicking.
- Insulation materials shall be manufactured without the use of CFC's, HFC's or HCFC's. It shall also be formaldehyde free, low VOCs, fiber free, dust free and resists mold and mildew.
- Insulation materials shall have a flame-spread index of less than 25 and a smoke-developed index of less than 50 as tested in accordance with ASTM E 84. In addition, the products, when tested, shall not melt or drip flaming particles, and the flame shall not be progressive.
- Insulation materials shall have a maximum thermal conductivity of 0.27 Btu-in./h-ft 2 -°F at a 75°F mean temperature as tested in accordance with ASTM C 177 or ASTM C 518.
- Insulation materials shall have a maximum water vapor transmission of 0.08 perm-inches when tested in accordance with ASTM E 96, Procedure A.

Insulation Schedule:

System	Insulation and Thickness	Jacket
Domestic cold water	½" Fiberglass on copper pipe; ½" foam on PEX piping	ASJ on fiberglass
Domestic hot water and hot water recirc piping	1" Fiberglass on copper pipe; 1" foam on PEX piping.	ASJ on fiberglass

PART 3—PIPING SPECIALTIES

Quality Assurance:
- Unless otherwise specifically mentioned, all valves of all types installed in connection with mechanical piping shall comply with the following requirements.
- Provide one make throughout the project, except valves in pipes 2-1/2" in diameter and larger may be Victaulic or equivalent.
- Valves two inches and smaller shall be threaded and have bronze bodies. Valves 2-1/2" and larger shall be iron body bronze mounted (IBBM) type and shall be flanged or suitable for Victaulic mechanical couplings.
- All valves shall bear NSF or other suitable approval for potable water service.

Unions: All unions shall be 150 psig rated malleable iron, screwed, with brass to iron ground joints. Provide dielectric unions at dissimilar metal connections in cold water systems. For copper pipe, provide copper sweat unions or disassemble-able mechanical joints.

Ball Valves: Provide for isolation duty in piping systems 2-1/2" inches and smaller. Provide full ported 90 degree bronze ball valves with teflon seats, brass packing gland, and TFE impregnated adjustable packing, rated for 600 psi WOG (non-shock). Valves for potable water service must be lead-free.

Water Hammer Arrestors: Provide and install water hammer arrestors where shown on the drawings and in accordance with the Uniform Plumbing Code. Shock arrestors shall be lead free and shall have a piston, o-ring, and inert gas for shock absorption. Size shock arrestors per manufacturer's instructions except as otherwise noted on the plans. Provide Zurn 1260XL series, Sioux Chief, or equivalent.

Strainers: Provide Y-type strainers designed for a minimum of 125 psig working pressure and equipped with blow-off plugs. Strainers 2" and larger shall have flanged ends. Screens shall be made of stainless steel with 3/64 inch openings for water service or 1/64 inch for steam service. Provide bronze body strainers for copper piping and iron body strainers for steel piping. Strainers in potable water piping shall be lead-free

Cleanouts: Cleanouts on bare pipe shall be Zurn Z-1445 for cleanouts in straight runs. Cleanouts at end of pipe run may be generic plug. Cleanouts in walls shall be bronze plug with stainless steel cleanout cover. Cleanouts in floors shall be Sioux Chief with PVC body and nickel bronze top. Provide concealed cleanouts with stainless steel covers. Equivalent products of J.R. Smith, Sioux Chief, and Watts are acceptable.

PART 4—PIPING AND SPECIALTY INSTALLATION

General:
- Ream all pipe to full inside diameter after cutting and thoroughly clean before installation. Run all piping as directly as possible, avoiding unnecessary offsets. Conceal piping in finished rooms unless noted or specified otherwise. Arrange pipelines to give ample room for the pipe insulation specified.
- Thoroughly flush all piping after installation.
- Provide the appropriate sizes of insulating couplings between piping systems of dissimilar materials and at all equipment where piping and equipment are of dissimilar materials.
- Verify local government and utility company's inspection requirements and abide by their rights of inspection before covering or otherwise concealing any piping.
- Pipe support style and interval shall be as required by applicable code and as detailed on the drawings.
- All openings in pipes shall be kept closed during the progress of the work with tape, caps, or test plugs. Rags and paper wads shall not be used.
- Allowance for expansion shall be made in the installation of all piping so that usual variation in temperature will not cause undue stress at any point. Pipe shall be securely anchored where necessary to properly distribute expansion stresses.
- Escutcheons shall be provided at all pipe penetrations in occupied spaces or visible locations.
- All lines and risers shall be blocked as may be necessary to prevent noise or vibration when water is turned on or off.
- Water hammer air chambers, 18 inches long and of the same size as the branches shall be placed vertically on the end of all supply branches to each fixture.
- Locate all specialties for easy access.
- Run all horizontal drainage and vent piping at a uniform grade of ¼" per foot in the direction of flow unless otherwise indicated on the drawings.
- Support above-grade sanitary piping to ceiling, underside of floor, or within walls as required, and at the maximum elevation possible.
- Vents shall be installed using a neoprene boot with galvanized plate as manufactured by Oatey's; equivalent products by other manufacturers are acceptable. Paint all vents in color similar to roof.
- Provide cleanouts as shown on the plans and as required by applicable codes. Cleanouts shall be the same size as the pipe, up to 4".
- Provide cleanouts to grade outside building as shown. Cleanouts and/or cleanout covers, where provided, shall be installed flush with surrounding surfaces.
- Pressure test all new piping in accordance with governing codes.

Sleeves:
- Provide sleeves large enough for pipe and insulation, if insulated, for all pipes penetrating floors or walls. Cut openings only as large as required for the installation. Holes for sleeves in concrete or masonry shall be core drilled.
- Non-Fire Rated Walls and Floors: Caulk between pipe and all sleeves. Provide chromed plates for pipe penetrations of walls and floors where exposed to view. Install sleeves flush with finished surfaces of walls and ceilings and grout in place. Surfaces around openings shall be left smooth and finished to match surrounding surface. Sleeves in floors shall extend 1/4 inch above finished floor and be caulked to floor with silicone.
- Fire-Rated Walls and Floors: For protection of penetrations of fire-rated walls, see notes on drawings.

PART 5—DOMESTIC WATER DISINFECTION

Disinfecting Agent:
- Free chlorine in liquid, powder, tablet or gas form.

Procedure:
- Treatment will occur after the work is completed but before system is placed into service.
- Disinfection shall comply with requirements listed in 2021 Uniform Plumbing Code (UPC). If there is a conflict between this section and the UPC, the UPC shall take precedence.
- Prior to starting work, verify that system is complete, flushed, and clean. Ensure that PH of water supply is between 7.4 and 7.6 by adding alkali in the form of caustic soda or soda ash if PH is too high, or hydrochloric acid if PH is too low, to adjust PH.
- Inject disinfectant and bleed water from outlets to ensure distribution; test for disinfectant residual. Maintain disinfectant in new portions of system for 24 hours. Cooperate with test and balance agency to perform tests. Repeat disinfectant residual tests. If less than 25 mg/L, repeat treatment.
- Flush disinfectant from system until residual equal to that of incoming water, or, if domestic water supply is not treated, 1.0 mg/L. Take samples no sooner than 24 hours after flushing; analyze in accordance with AWWA C651. Make written reports of disinfectant agents and test results for placement into Operation and Maintenance manuals.

PART 6—PLUMBING FIXTURES AND EQUIPMENT

Quality Assurance:
- Plumbing fixtures specified hereinafter shall be provided free of flaws and defects of any sort in material and workmanship and shall operate perfectly when installed in accordance with manufacturer's directions.
- Chrome plated plastic is not an acceptable material for fixtures or trim.
- Chrome plated brass escutcheons shall be provided at each point a pipe or other fitting enters the wall or floor at a fixture or enters a finished space.
- Provide all vitreous china and enameled cast iron fixtures in standard white finish. Provide showers in standard white.

Plumbing Fixtures and Trim
- Acceptable Manufacturers:
  - Lavatories: America Standard, Kohler, Mansfield, Zurn.
  - Stainless Steel Sinks: American Standard, CECO, Elkay, Franke, Just, Kohler, or Moen.
  - Faucets and Tailpieces: American Standard, Cambridge Brass, Chicago, Delta, Eljer, Just, Kohler, Moen, Speakman, Symmons, or T & S Brass, or equivalent.
  - Floor Drains and Floor Sinks: Josam, MIFAB, Sioux Chief, Smith, Wade, Watts, Zurn.
- All stops shall be quarter-turn ball valve style.
- Installation:
  - Plumbing fixtures shall be installed where shown on the drawings in a neat and workmanlike manner with proper connections to supply and drainage piping.
  - Protect the plumbing fixtures and accessories and cover fixtures with building paper and wooden crates during construction. Replace at no cost to the Owner any fixture or accessory that is marred, scratched, defaced, or broken.
  - Water shall be turned on to all supply lines and all fixtures shall be demonstrated to operate properly.
  - All fixtures and trim shall be cleaned thoroughly.

Requirements for Handicapped Accessible Plumbing Fixtures
- Refer also to details on architectural drawings. The architectural drawings and specifications shall take precedence over any handicapped accessibility requirements listed in this paragraph or on the Plumbing Fixture Schedule.
- Water Closets: Trip lever must be on wide side of installation.
- Sinks and lavatories in counter tops without cabinets below: Provide insulation under lavatories, TrueBro LavGuard package in white; insulation to be on hot, cold, and waste piping.
- Showers: See architectural drawings for faucet and grab bar requirements.

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REST ROOM BUILDINGS FOR:
TEMPORARY SAFE OUTDOOR SPACE
1975 BROADWAY, MISSOULA MT 59808

PLAN REVIEW: 07.11.2025
BID SET: 06.26.2026

PLUMBING SPECIFICATIONS

edinc Job #: 24.119

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Exhibit A

EXISTING PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER AND NUMBER	FAUCET OR VALVE	ACCESSORIES	MOUNT HEIGHT	SUPPLY	WASTE	VENT	COMMENTS
WC-1	KOHLER K-3999 HIGHLINE	---	KOHLER K-4670-C SEAT, STOP	FLOOR	1/2" C.	3"	2"	NOTE 1
WC-2	KOHLER K-3998 WELLWORTH	---	KOHLER K-4670-C SEAT, STOP	FLOOR	1/2" C.	3"	2"	NOTE 3
LAV-1	KOHLER K-2054 SOHO	MOEN CA8301	STOPS, P-TRAP, GRID DRAIN	RIM AT 34" AFF	1/2" H. & C.	1-1/2"	1-1/2"	NOTES 2, 3
SH-1	AQUATIC 1623BFSTD	INCLUDED	STOPS, P-TRAP, GRID DRAIN	FLOOR	1/2" H. & C.	2"	1-1/2"	NOTE 5
SH-2	AQUATIC 16030STT	MOEN L2352	STOPS, P-TRAP, COLLAPSIBLE WATER RETAINER WITH END CAPS	FLOOR	1/2" H. & C.	2"	---	NOTE 3
HB-1	WOODFORD 24 HOSE BIBB	---	---	18" AFF	3/4" C.	---	---	
FD-1	SMITH 2005-NB FLOOR DRAIN	---	ROUND STRAINER	FLOOR	---	2"	1-1/2"	NOTES 3, 4
FD-2	SMITH 2005-NB FLOOR DRAIN	---	ROUND STRAINER	FLOOR	---	4"	2"	NOTE 4

GENERAL: ARCHITECTURAL PLANS AND DETAILS TAKE PRECEDENCE FOR LOCATION, MOUNTING HEIGHTS, CLEARANCES, ETC.

1. TRIP LEVER MUST BE INSTALLED ON WIDE SIDE OF INSTALLATION.
2. PROVIDE WITH TRUE-BRO LAV GUARD INSULATION PACKAGE IN WHITE FOR ALL PIPING UNDER LAV.
3. SOME INSTANCES ARE INCLUDED IN A CIRCUIT-VENTED SYSTEM AND DO NOT HAVE AN INDIVIDUAL VENT.
4. PROVIDE WITH RECTORSEAL SURESEAL, OR EQUIVALENT, WATERLESS TRAP SEAL.
5. PROVIDE WITH STAINLESS STEEL GRAB BARS, PHENOLIC WHITE FOLD-UP SEAT, HAND-HELD SHOWER ASSEMBLY WITH SLIDE BAR AND HOSE, PRESSURE BALANCING MIXING VALVE, VINYL FLEXIBLE DAM, AND BRASS DRAIN.

NEW PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER AND NUMBER	FAUCET OR VALVE	ACCESSORIES	MOUNT HEIGHT	SUPPLY	WASTE	VENT	COMMENTS
LAV-2	KOHLER K-2054 SOHO	MOEN CA8301	STOPS, P-TRAP, GRID DRAIN	RIM AT 34" AFF	1/2" H. & C.	1-1/2"	1-1/2"	NOTE 1
SK-1	ELKAY DPC1202010	MOEN 8279	STOPS, P-TRAP, STAINLESS STEEL BASKET STRAINER	COUNTER	1/2" H. & C.	2"	1-1/2"	
UT-1	OATEY 38791	---	1/4 TURN BALL VALVES PRODUCT NO. 38962	40" ABOVE FLOOR	1/2" H. & C.	2"	1-1/2"	
FD-3	SMITH 2005-NB FLOOR DRAIN	---	ROUND STRAINER	FLOOR	---	2"	1-1/2"	NOTES 2, 3

GENERAL: ARCHITECTURAL PLANS AND DETAILS TAKE PRECEDENCE FOR LOCATION, MOUNTING HEIGHTS, CLEARANCES, ETC.

1. PROVIDE WITH TRUE-BRO LAV GUARD INSULATION PACKAGE IN WHITE FOR ALL PIPING UNDER LAV.
2. SOME INSTANCES ARE INCLUDED IN A CIRCUIT-VENTED SYSTEM AND DO NOT HAVE AN INDIVIDUAL VENT.
3. PROVIDE WITH RECTORSEAL SURESEAL, OR EQUIVALENT, WATERLESS TRAP SEAL.

EXISTING ELECTRIC WATER HEATER SCHEDULE

MARK	MANUFACTURER AND NUMBER	CAPACITY (BTU/HR)	STORAGE TANK CAPACITY	GPH @90°F RISE	STANDBY LOSS (%/HR)	VOLT/PHASE	COMMENTS
WH-1	A.O. SMITH LTE 66	4500/4500	66 GALLONS	42	0.75	208V / 1Ø	1, 2
WH-2	A.O. SMITH LTE 66	4500/4500	66 GALLONS	42	0.75	208V / 1Ø	1, 2

GENERAL: EXTERNAL HEAT TRAPS SHALL BE INSTALLED ON ALL WATER HEATERS THAT DO NOT HAVE INTERNAL HEAT TRAPS.

1. ELEMENTS OPERATE SIMULTANEOUSLY.
2. ACCEPTABLE ALTERNATE MANUFACTURERS: BRADFORD WHITE, LOCHINVAR, RHEEM, STATE.

EXISTING DOMESTIC RECIRC PUMP SCHEDULE

MARK	MANUFACTURER AND MODEL	GPM	HEAD	RPM	H.P.	VOLT/PHASE	COMMENTS
RCP-1	TACO SPE-1 SYSTEM	0.7	7.0'	VARIABLE	1/40	115V / 1Ø	1, 2, 3

1. PUMP SHALL BE SUITABLE FOR POTABLE WATER SERVICE.
2. PROVIDE COMPLETE SYSTEM WITH MODEL 006E3 PUMP, SMART PLUG AND TEMPERATURE SENSOR.
3. COORDINATE WITH OWNER FOR SCHEDULE.

GENERAL NOTES - ALL SHEETS

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DO NOT SCALE FROM DRAWINGS.
2. COORDINATE PIPING INSTALLATION AND LOCATION WITH OTHER ITEMS AND TRADES, SUCH AS DUCTWORK, ELECTRICAL, LIGHTING, FIRE SPRINKLER, ETC.
3. DO NOT RUN PIPING OVER OR WITHIN NEC REQUIRED SERVICE CLEARANCE OF ELECTRICAL PANELS AND LOAD CENTERS.
4. PROVIDE CLEANOUTS WHERE SHOWN ON THE PLANS AND WHERE REQUIRED BY THE GOVERNING CODE AND AUTHORITY HAVING JURISDICTION.
5. CONTRACTOR SHALL VERIFY SEWER INVERT PRIOR TO BEGINNING ANY CONSTRUCTION WORK OR PIPE LAYOUT. NOTIFY ENGINEER IMMEDIATELY IF SEWER IS SHALLOWER THAN EXPECTED AND/OR IF PROBLEMS CONNECTING TO IT ARE ANTICIPATED.
6. NEW DRAINAGE, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC DWV WITH SOLVENT WELD FITTINGS SLOPED AT 1/4" PER FOOT.
7. NEW SUPPLY PIPING INSIDE THE CRAWLSPACE PERIMETER SHALL BE TYPE L COPPER WITH EITHER SOLDERED OR MECHANICAL JOINTS. INSULATION IS NOT REQUIRED ON PIPING.
8. WATER SERVICE ENTRANCE IS NEW FOR EACH BUILDING. PROVIDE SPECIALTIES AS INDICATED IN SCHEMATICS OR EQUIVALENT BY ALTERNATE MANUFACTURERS.
9. SEE ARCHITECTURAL DRAWINGS FOR ADA INSTALLATION REQUIREMENTS. ALL LAVS SHALL HAVE TRUBRO LAV-GUARD PACKAGE, INCLUDING COVERINGS FOR HOT, COLD, AND WASTE PIPING.
10. ALL SHOWER HEADS SHALL BE LIMITED TO 1.75 GPM MAX FLOW RATE.

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PLUMBING SCHEDULES AND NOTES

edinc Job #: 24.119

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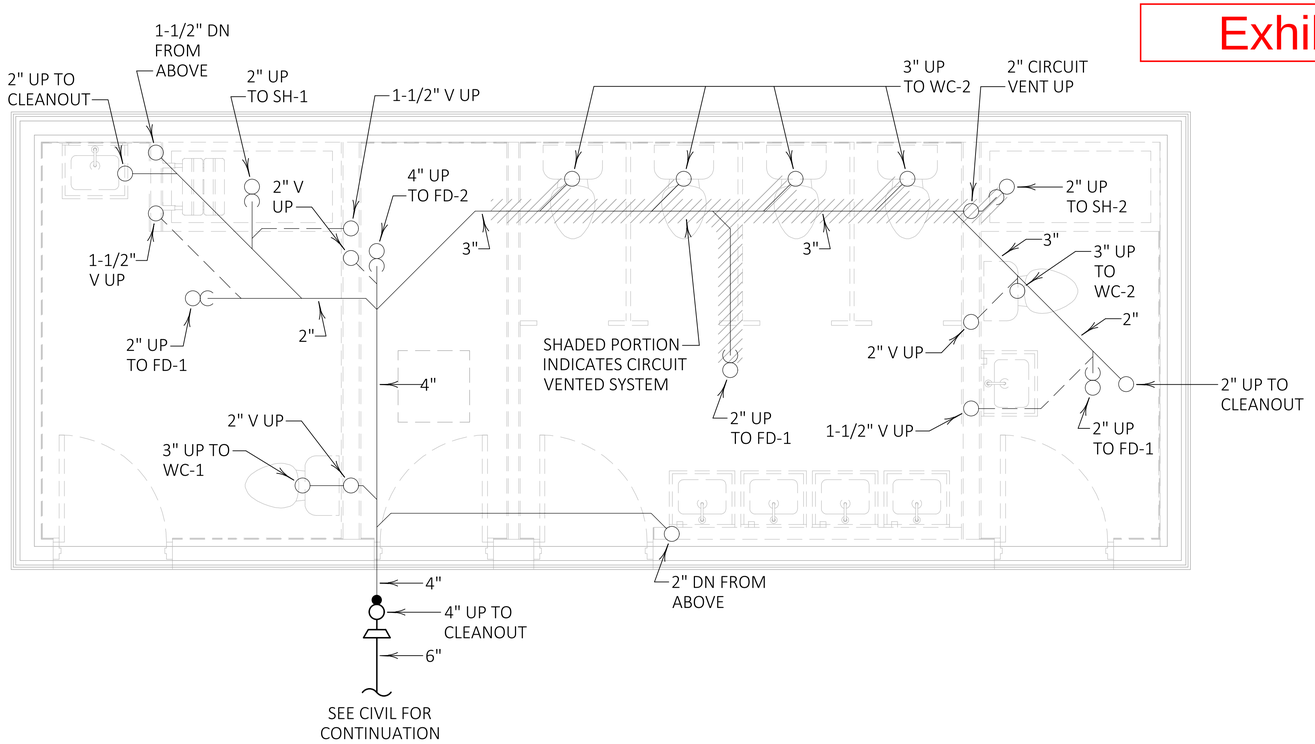
Exhibit A



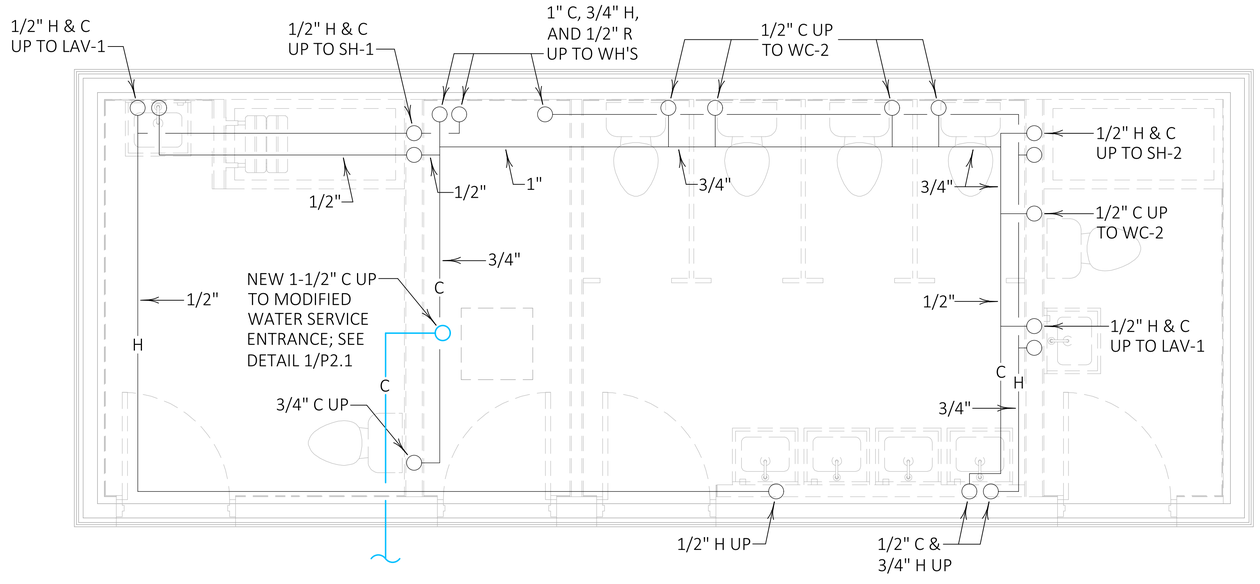
1 / P1.1

BUILDING A CRAWLSPACE WASTE AND VENT PLAN

1/2" = 1'-0"

GENERAL NOTES

1. MOST PIPING SHOWN ON THIS SHEET IS EXISTING. THE ONLY NEW WORK IS CONNECTION TO NEW WATER AND SEWER SERVICES. OTHER PIPING IS SHOWN FOR REFERENCE ONLY.



2 / P1.1

BUILDING A CRAWLSPACE SUPPLY PIPING PLAN

1/2" = 1'-0"

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WESTERN MONTANA ENGINEERING, INC
1527 South Russell, Missoula MT 59801
(406) 721-5776 julie@westernmtengineering.com

REST ROOM BUILDINGS FOR:
TEMPORARY SAFE OUTDOOR SPACE
1975 BROADWAY, MISSOULA MT 59808

PLAN REVIEW: 07.11.2025
BID SET: 06.26.2026

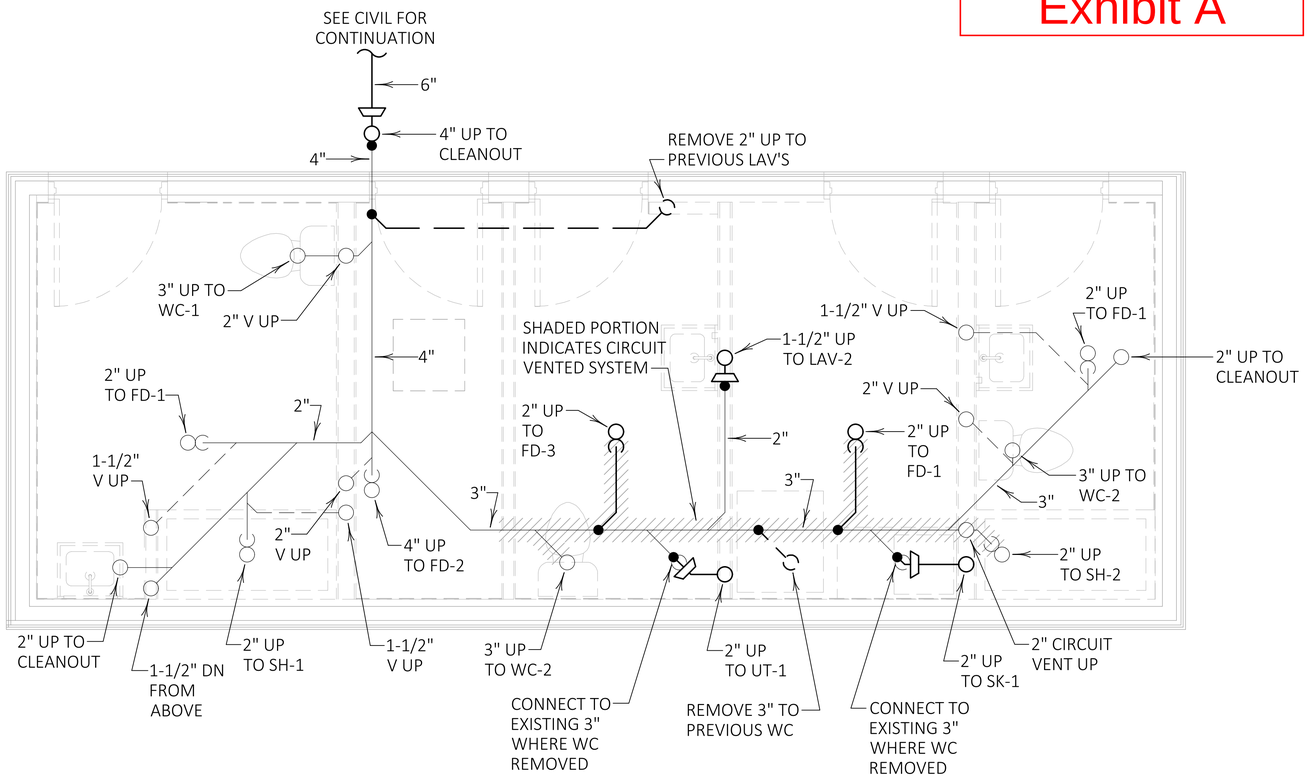
BUILDING A PLUMBING PLANS

edinc Job #: 24.119

THIS SHEET IS INTENDED TO BE PRINTED IN COLOR TO FULLY UNDERSTAND THE INFORMATION BEING PRESENTED.

P1.1

Exhibit A



1 / P1.2 BUILDING B CRAWLSPACE WASTE AND VENT PLAN

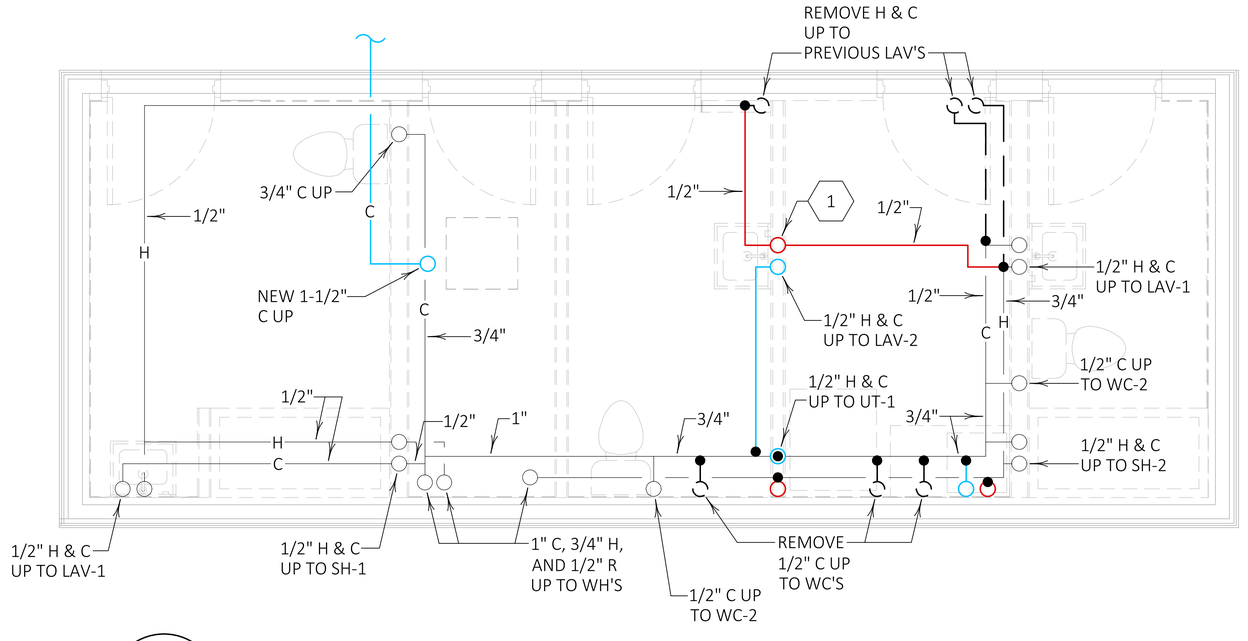
1/2" = 1'-0"

CIRCUIT VENTING NOTES

1. BRANCH DRAINS SHALL CONNECT HORIZONTALLY TO THE HORIZONTAL BRANCH BEING CIRCUIT VENTED.
2. VENTS SHALL CONNECT TO THE HORIZONTAL BRANCH BEING CIRCUIT VENTED ON THE VERTICAL.
3. FOR ALL REQUIREMENTS, SEE SECTION 911.0 OF THE 2021 UNIFORM PLUMBING CODE.

CONSTRUCTION NOTES

1. H LINE MUST RUN UP FROM CRAWLSPACE, PAST H STOP, AND BACK DN INTO CRAWLSPACE. SEE 3/P2.1.



2 / P1.2 BUILDING B CRAWLSPACE SUPPLY PIPING PLAN

1/2" = 1'-0"

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P1.2

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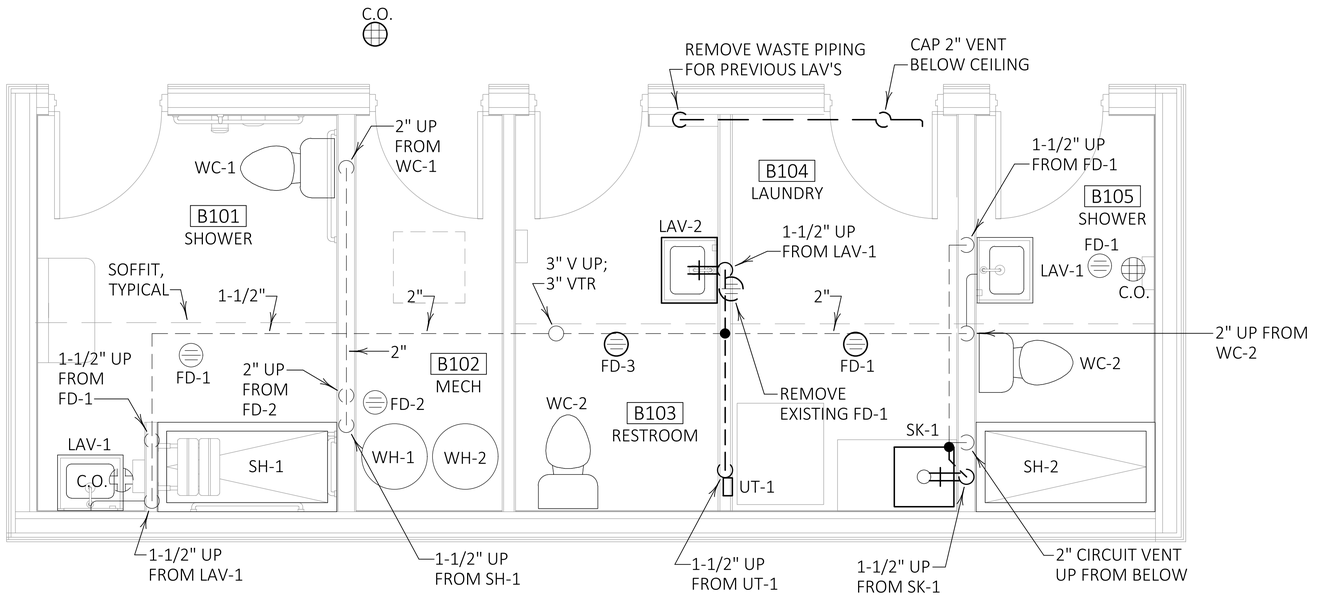
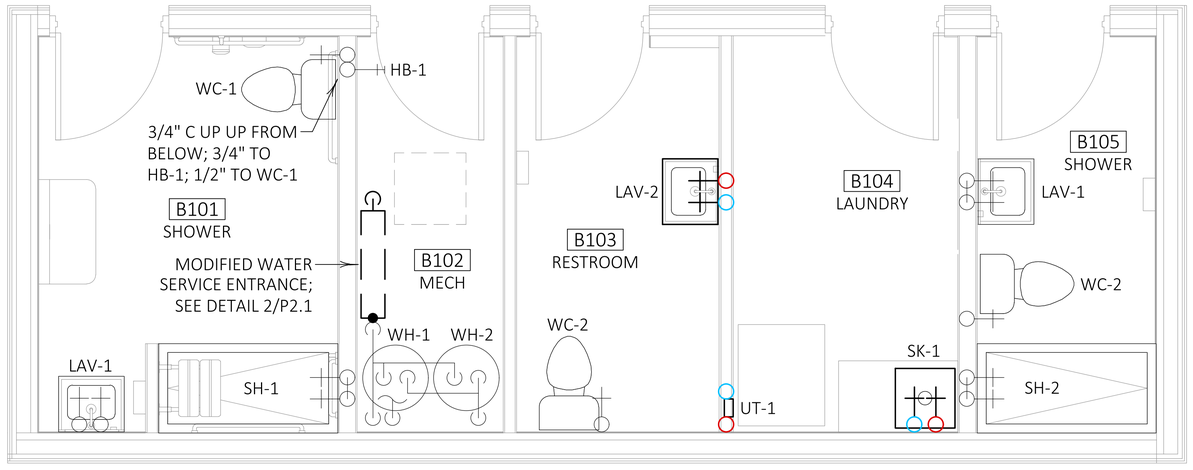


1 / P1.3 BUILDING B MAIN FLOOR WASTE AND VENT PLAN

1/2" = 1'-0"

CIRCUIT VENTING NOTES

1. BRANCH DRAINS SHALL CONNECT HORIZONTALLY TO THE HORIZONTAL BRANCH BEING CIRCUIT VENTED.
2. VENTS SHALL CONNECT TO THE HORIZONTAL BRANCH BEING CIRCUIT VENTED ON THE VERTICAL.
3. FOR ALL REQUIREMENTS, SEE SECTION 911.0 OF THE 2021 UNIFORM PLUMBING CODE.



2 / P1.3 BUILDING B MAIN FLOOR SUPPLY PIPING PLAN

1/2" = 1'-0"

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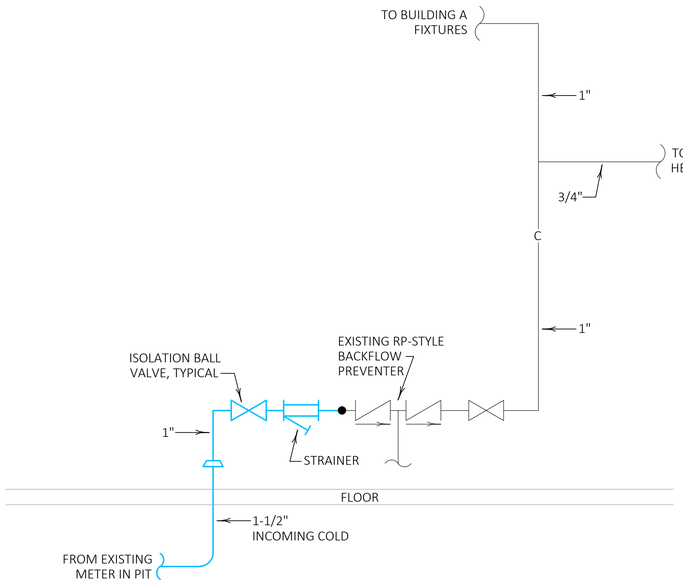
P1.3

Exhibit A



NOTES:

AFTER CONSTRUCTION IS COMPLETE, AND BEFORE TURNING PROJECT OVER TO OWNER, CONTRACTOR SHALL HAVE THE BACKFLOW PREVENTION ASSEMBLY TESTED BY A PERSON WHO HOLDS A CURRENT CERTIFICATION FROM ANY STATE CERTIFICATION PROGRAM AUTHORIZING THE PERSON TO TEST BACKFLOW PREVENTION ASSEMBLIES OR WHO HOLDS A CURRENT CERTIFICATE FROM THE AMERICAN SOCIETY OF SANITARY ENGINEERS. CONTRACTOR SHALL PROVIDE FORM TO OWNER VERIFYING PROPER PERFORMANCE OF THE ASSEMBLY.

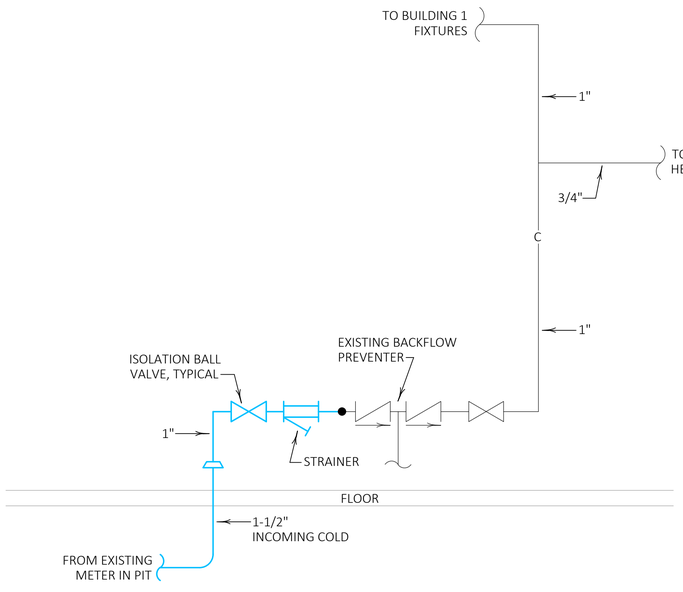
POTABLE WATER SIZING:

- TOTAL OF 27.5 SFU'S.

- SIZING BASED ON 46-60 PSIG RANGE.

1 / P2.1 BUILDING A WATER SERVICE ENTRANCE

NO SCALE



NOTES:

AFTER CONSTRUCTION IS COMPLETE, AND BEFORE TURNING PROJECT OVER TO OWNER, CONTRACTOR SHALL HAVE THE BACKFLOW PREVENTION ASSEMBLY TESTED BY A PERSON WHO HOLDS A CURRENT CERTIFICATION FROM ANY STATE CERTIFICATION PROGRAM AUTHORIZING THE PERSON TO TEST BACKFLOW PREVENTION ASSEMBLIES OR WHO HOLDS A CURRENT CERTIFICATE FROM THE AMERICAN SOCIETY OF SANITARY ENGINEERS. CONTRACTOR SHALL PROVIDE FORM TO OWNER VERIFYING PROPER PERFORMANCE OF THE ASSEMBLY.

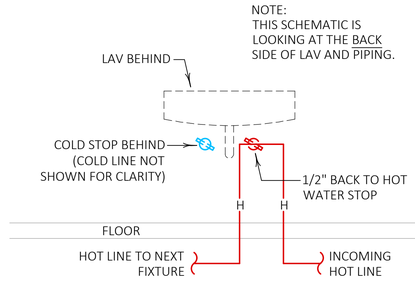
POTABLE WATER SIZING:

- TOTAL OF 22.5 SFU'S.

- SIZING BASED ON 46-60 PSIG RANGE.

2 / P2.1 BUILDING B WATER SERVICE ENTRANCE

NO SCALE



3 / P2.1 LAV HOT WATER CONNECTION SCHEMATIC

NO SCALE

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PLUMBING DETAILS

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P2.1

Exhibit A

ELECTRICAL ABBREVIATIONS LEGEND

A, AMP	AMPERES	MAN	MANUAL
AC	ALTERNATING CURRENT	MAX	MAXIMUM
A/C	AIR CONDITIONING	MC	MECHANICAL CONTRACTOR
AF	AMP FUSE	MCA	MINIMUM CIRCUIT AMPACITY
AFC	AVAILABLE FAULT CURRENT	MCC	MOTOR CONTROL CENTER
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MDP	MAIN DISTRIBUTION PANEL
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AFG	ABOVE FINISHED GRADE	MEP	MECHANICAL, ELECTRICAL, PLUMBING
AHU	AIR HANDLING UNIT	MH	METAL HALIDE
AL	ALUMINUM	MIN	MINIMUM
AS	AMP SWITCH	MOCP	MAXIMUM OVERCURRENT PROTECTION
ATS	AUTOMATIC TRANSFER SWITCH	MSS	MOTOR STARTER SWITCH WITH THERMAL OVERLOADS
BAS	BUILDING AUTOMATION SYSTEM	N	NEUTRAL
BKR	BREAKER	NC	NORMALLY CLOSED
BOF	BOTTOM OF FIXTURE	NEC	NATIONAL ELECTRIC CODE
C	RACEWAY/CONDUIT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CB	CIRCUIT BREAKER	NFD	NON-FUSED DISCONNECT
CCT	COLOR RENDERING TEMPERATURE	NL	NIGHT LIGHT, UN-SWITCHED 24/7 OPERATION
CCTV	CLOSED CIRCUIT TELEVISION	NIC	NOT IN CONTRACT
CKT	CIRCUIT	NO	NORMALLY OPEN
CLG	CEILING	#	NUMBER
C.O.	RACEWAY/CONDUIT ONLY, WITH PULL STRING	OAE	OR APPROVED EQUAL
COD	CENTER OF DEVICE	OC	ON CENTER
CNTRL	CONTROL	OCPD	OVERCURRENT PROTECTIVE DEVICE
CU	COPPER	OH	OVERHEAD
(D)	EXISTING TO BE DEMOLISHED	P	POLE
DISC	DISCONNECT	PB	PUSHBUTTON
DIST	DISTRIBUTION	PC	PLUMBING CONTRACTOR
DPDT	DOUBLE POLE DOUBLE THROW	PH	PHASE
DWG	DRAWING	PNL	PANEL
EA	EACH	PVC	POLYVINYL CHLORIDE CONDUIT
EC	ELECTRICAL CONTRACTOR	PWR	POWER
EF	EXHAUST FAN	(R)	EXISTING TO REMAIN
ELEC	ELECTRIC	RCPT	RECEPTACLE
EMT	ELECTRICAL METALLIC TUBING	RECEPT	RECEPTACLE
EQUIP	EQUIPMENT	RGS	RIGID GALVANIZED STEEL
EX, EXIST	EXISTING	RM	ROOM
FA	FIRE ALARM	RVNR	REDUCED VOLTAGE NON-REVERSING
FAA	FIRE ALARM ANNUNCIATOR	RVR	REDUCED VOLTAGE REVERSING
FACP	FIRE ALARM CONTROL PANEL	SP	SINGLE POLE TOGGLE SWITCH
FD	FUSED DISCONNECT	SPD	SURGE PROTECTIVE DEVICE (TVSS)
FLR	FLOOR	SPEC	SPECIFICATION
FO	FIBER OPTIC	SPST	SINGLE POLE SINGLE THROW
FSD	FIRE SMOKE DAMPER RELAY, CONTROLLED BY ASSOCIATED SMOKE DETECTOR AND CIRCUITED BACK TO FACP	SSPB	START-STOP PUSHBUTTON
		SW	SWITCH
		SWBD	SWITCHBOARD
FVNR	FULL VOLTAGE NON-REVERSING	SWGR	SWITCHGEAR
FVR	FULL VOLTAGE REVERSING	TB	TELEPHONE BOARD
GEC	GROUNDED ELECTRODE CONDUCTOR	TC	TIME CLOCK
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TD	TIME DELAY
GFI	GROUND FAULT INTERRUPTER	TEL	TELEPHONE
GFP	GROUND FAULT PROTECTION	TR	TAMPER RESISTANT
GND	GROUND	TSP	TWISTED SHIELDED PAIR
GRC	GALVANIZED RIGID CONDUIT	TTB	TELEPHONE TERMINAL BOARD
HID	HIGH INTENSITY DISCHARGE	TYP	TYPICAL
HOA	HAND-OFF-AUTOMATIC	UG	UNDERGROUND
HP	HORSEPOWER	UH	UNIT HEATER
HPS	HIGH PRESSURE SODIUM	UNO	UNLESS NOTED OTHERWISE
HTR	HEATER	V	VOLT
HVAC	HEATING, VENTILATION & AIR CONDITIONING	VA	VOLT-AMPERES
HZ	HERTZ	VFD	VARIABLE FREQUENCY DRIVE
J-BOX	JUNCTION BOX	W	WATTS
KVA	KILOVOLT-AMPERES	WAO	WORK AREA OUTLET
KW	KILOWATTS	WP	WEATHERPROOF
LCP	LIGHTING CONTROL PANEL	WPI	WEATHERPROOF WHILE-IN-USE
LPW	LUMENS PER WATT	WR	WEATHER RESISTANT
LTG	LIGHTING	W/O	WITHOUT
LM	LUMENS	XFMR	TRANSFORMER
LV	LOW VOLTAGE	Y	WYE-CONNECTED
MAG	MAGNETIC STARTER	Δ	DELTA-CONNECTED
		ø	PHASE

ELECTRICAL LIGHTING FIXTURE LEGEND

- RECESSED LED FIXTURE - "a" & "b" DESIGNATES SWITCH
- RECESSED EMERGENCY LED FIXTURE - "a" & "b" DESIGNATES SWITCH
- SURFACE LED FIXTURE - "a" & "b" DESIGNATES SWITCH
- SURFACE EMERGENCY LED FIXTURE - "a" & "b" DESIGNATES SWITCH
- SURFACE WALL MOUNT LED FIXTURE
- LED STRIP OR INDUSTRIAL, SURFACE OR CHAIN HUNG
- EMERGENCY LED STRIP OR INDUSTRIAL, SURFACE OR CHAIN HUNG
- POLE MOUNTED FIXTURE
- LIGHTED BOLLARD
- PENDANT FIXTURE; HIGH BAY, LOW BAY, DECORATIVE
- EXIT SIGN - WALL MOUNT, CEILING MOUNT. ARROW INDICATES DIRECTION OF TRAVEL, SHADING INDICATES LIGHTED FACE.
- COMBINATION EXIT SIGN/ EGRESS LIGHTING UNIT - WALL MOUNT, CEILING MOUNT. ARROW INDICATES DIRECTION OF TRAVEL, SHADING INDICATES LIGHTED FACE.
- DUAL HEAD EMERGENCY EGRESS BATTERY PACK, WALL MOUNT OR CEILING MOUNT
- WALL MOUNTED SCONCE
- SURFACE DOWNLIGHT
- SURFACE EMERGENCY DOWNLIGHT
- RECESSED CAN DOWNLIGHT
- RECESSED CAN EMERGENCY DOWNLIGHT
- RECESSED CAN WALL WASHER
- TRACK LIGHTING. SEE FIXTURE SCHEDULE AND LIGHTING PLANS.

ELECTRICAL LIGHTING CONTROL LEGEND

STANDARD LIGHTING CONTROLS:
SWITCHES AND LINE VOLTAGE DIMMERS

TOGGLE SWITCH (MOUNT AT +48", UNO)
"X" INDICATES TYPE:
- BLANK - SINGLE POLE
- 3 - INDICATES THREE-WAY
- 4 - INDICATES FOUR-WAY
- D - INDICATES DIMMER SWITCH PHILIPS SUNRISE - ON/OFF
- K - INDICATES KEYED SWITCH
- T - INDICATES TIMER
- P - INDICATES PILOT LIGHT
- OS - INDICATES WALL SWITCH OCC SENSOR WATTSTOPPER DW100 (SINGLE OR DUAL DW-200 SWITCH)
- OSD - INDICATES WALL SWITCH OCC SENSOR WITH 0-10V DIMMING - WATTSTOPPER DW-311
- a - SINGLE POLE LIGHTING SWITCH ZONE 'a'
- b - SINGLE POLE LIGHTING SWITCH ZONE 'b'
- ab - INDICATES LIGHTING SWITCHES WITH MULTIPLE ZONES

OCCUPANCY SENSOR - DUAL TECHNOLOGY CEILING MOUNT: WATTSTOPPER DT-300, OR EQUAL WALL MOUNT: WATTSTOPPER DT-200, OR EQUAL WALL MOUNTED SHALL BE AT +96", UNO PROVIDE WITH BZ-50 POWER PACKS AS NEEDED.

PHOTOCELL - CEILING MOUNT, WATTSTOPPER LS-301, OR EQUAL

ELECTRICAL ONE-LINE LEGEND

- CT AND CUSTOMER POWER METER
- MOTOR
- UTILITY ELECTRIC METER AND BASE (BASE BY CUSTOMER)
- SURGE PROTECTION DEVICE
- LIGHTNING ARRESTER, TYPE 1 SPD, MOUNTED ON EXTERIOR OF MAIN SWITCHGEAR (SQUARE D. SDSA SERIES, OAE)
- STRESS RELIEF CONE
- POWER FACTOR CORRECTION CAPACITOR
- EQUIPMENT TOGGLE DISCONNECT SWITCH
  "X" INDICATES TYPE:
  - F - FUSTAT
  - M - MOTOR STARTER SWITCH W/ THERMAL OVERLOADS
- CONTACTOR NORMALLY OPEN, NORMALLY CLOSED
- TRANSFORMER, 3-PH, 3-WIRE DELTA CONNECTION
- TRANSFORMER, 3-PH, 4-WIRE GROUNDED WYE CONNECTION
- AUTOMATIC TRANSFER SWITCH
- VARIABLE FREQUENCY DRIVE
- FIXED MOUNT LV BREAKER
- FUSED SWITCH ("XXAS/XXAF" - SW AND FUSE AMP RATING)
- GENERATOR
- WALL MOUNTED BREAKER
- THERMAL OVERLOAD ELEMENT
- DISCONNECT SWITCH ("XXAS" = SWITCH AMP RATING)
- FUSED DISCONNECT SWITCH ("XXAS/XXAF" = SW AND FUSE AMP RATING)
- COMBINATION MOTOR STARTER (STR SIZE, TYP, AS, AF, SEE MEP COORDINATION SCHEDULE)
- SWITCHBOARD OR PANELBOARD; NAME, VOLTAGE, PHASE, NUMBER OF WIRES WHEN INDICATED

ELECTRICAL POWER LEGEND

PANEL AND CIRCUIT DESIGNATION ARE NEXT TO EACH DEVICE (PANEL NAME - CIRCUIT NUMBER). MINIMUM BRANCH CIRCUIT WIRE SIZE IS #12, UNO. A SINGLE INSULATED GREEN GROUND CONDUCTOR SHALL BE PROVIDED WITH EACH HOME RUN. PROVIDE A SEPARATE NEUTRAL FOR EACH CIRCUIT. HOME RUNS SHALL HAVE NO MORE THAN THREE CIRCUITS. LINE VOLTAGE AND LOW VOLTAGE WIRING IS NOT SHOWN ON PLANS.
"X" INDICATES TYPE:
- C - AUTOMATIC CONTROL
- GFI - GROUND FAULT INTERRUPTER
- WP - WEATHERPROOF FLIP COVER
- WPI - WEATHERPROOF WHILE-IN-USE COVER
- WR - WEATHER-RESISTANT TYPE
- U - PROVIDE WITH (2) USB PORTS
- TR - TAMPER RESISTANT

- SIMPLEX RECEPTACLE - CEILING MOUNT, WALL MOUNT (+18", UNO)
- DUPLEX RECEPTACLE - CEILING MOUNT, WALL MOUNT (+18", UNO)
- QUADRUPLEX RECEPTACLE - CEILING MOUNT, WALL MOUNT (+18", UNO)
- ABOVE COUNTER RECEPTACLE - MOUNT AT +4" ABOVE BACKSPLASH
- FLOOR BOX WITH (2) DUPLEX RECEPTACLES - FURNISH WITH (1) 3/4" MIN. CONDUIT FOR POWER FROM BOX. INCLUDE ALL HARDWARE/ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION. PROVIDE COVER (COORDINATE WITH ARCHITECT FOR FLOORING TYPE AND FINISH).
  "X" INDICATES TYPE:
  - A - 4-GANG FLOOR BOX, CORROSION RESISTANT COATING FOR CONCRETE FLOORS (3" MIN. POUR DEPTH), (HUBBELL NO. CFB4G30CR, OAE)
  - B - 4-GANG FLOOR BOX FOR RAISED ACCESS FLOORS, (HUBBELL NO. AFB4G50, OAE)
  - C - FIRE RATED POKE-THROUGH FLOOR BOX FOR ELEVATED CONCRETE SLABS, 3" DIA. CORE (HUBBELL NO. PT7FSD, OAE)
  - D - 8" DIA., FIRE RATED POKE-THROUGH FLOOR BOX FOR ELEVATED CONCRETE* SLABS, (HUBBELL NO. S1R8PTFIT1, OAE)
  - E - FLUSH, ROUND SINGLE SERVICE FLOOR BOX FOR CONCRETE* FLOORS, UP TO 1" CONDUIT FEED (HUBBELL NO. B2506, OAE)
  - F - TOMBSTONE PEDESTAL FLOOR BOX, 1" CONDUIT FEED (HUBBELL NO. 6301, OAE)

  *POKE-THROUGH FLOOR BOXES CAN ALSO BE USED FOR TILE, CARPET, OR WOOD FLOORS.
- FLOOR BOX WITH ADDITIONAL C.O. FOR DATA. FURNISH (1) 1-1/4" DEDICATED CONDUIT FROM EACH DATA COMPARTMENT, COMPLETE WITH PULL STRINGS OVER TO AND UP WALL INTO ACCESSIBLE CEILING SPACE, UNO.
- PANELBOARD OR LOAD CENTER
- SPECIAL PURPOSE RECEPTACLE (MOUNT AT +18", UNO)
  "X" INDICATES TYPE:
  - A - NEMA 5-20R, #12 CU; B - NEMA 5-30R, #10 CU;
  - C - NEMA 5-50R, #6 CU; D - NEMA 6-20R, #12 CU;
  - E - NEMA 6-30R, #10 CU; F - NEMA 6-50R, #6 CU;
  - G - NEMA 14-20R, #12 CU; H - NEMA 14-30R, #10 CU;
  - I - NEMA 14-50R, #6 CU*

  * +4" AFF FOR RANGE
- PUSHBUTTON (MOUNT AT +48", UNO)
  "X" INDICATES TYPE:
  - EPO - EMERGENCY POWER OFF
  - ADA - HANDICAPPED ACCESSIBLE DOOR (DEVICE BY OTHERS)
  - ODD - OVERHEAD DOOR OPERATOR (DEVICE BY OTHERS)
- RECESSED TV BOX, WITH BLANK COVERS FOR LOW VOLTAGE OPENINGS. MOUNT AT +72", UNO.
  X INDICATES TYPE:
  - A - 2-GANG, WITH DUPLEX RECEPTACLE & SINGLE GANG DATA OPENING. HUBBELL RACO NSAV62M, WITH NSAV6C COVER
  - B - 3-GANG, WITH DUPLEX RECEPTACLE, LOW VOLTAGE DIVIDER, SINGLE GANG FOR DATA (CENTER), AND REMOVABLE SINGLE GANG FOR AUDIO/VISUAL (SIDE). ARLINGTON TVBS507

  NOTE: ROUTE (1) 1" C. TO DATA OPENING AND (1) 1-1/4" C. TO AUDIO/VISUAL OPENING, FROM TOP OF GANG IN WALL INTO ACCESSIBLE CEILING SPACE. ALSO ROUTE 1-1/4" C. FROM AUDIO/VISUAL OPENING TO FLOOR BOX WHERE APPLICABLE.
- JUNCTION BOX
- DROP-DOWN RECEPTACLE
- PS-X — SURFACE MOUNTED PLUGSTRIP
  "X" INDICATES TYPE:
  - A - PLUGSTRIP, POWER ONLY, OUTLET EVERY 3' OC
  - B - WIREMOLD SERIES 4000 POWER AND DATA
  - C - WIREMOLD SERIES 5000 POWER AND DATA
- SURFACE MOUNTED RACEWAY
- RACEWAY CONCEALED IN WALL, FLOOR, OR CEILING IN FINISHED SPACES, EXPOSED IN UNFINISHED SPACES
- RACEWAY BELOW FLOOR OR BELOW GRADE
- RACEWAY STUB-OUT WITH CAPPED END
- RACEWAY STUB-OUT WITH BUSHED END
- GROUNDING BUS

ABBREVIATIONS AND SYMBOLS GENERAL NOTES

A. THE ABBREVIATIONS ON THIS SHEET COMPRISE A STANDARD LIST; NOT ALL ABBREVIATIONS APPEAR ON THIS PROJECT.
B. THE SYMBOLS ON THIS SHEET COMPRISE A STANDARD LIST; NOT ALL SYMBOLS APPEAR ON THIS PROJECT.
C. ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS, MAKING ADJUSTMENTS AS REQUIRED TO AVOID INTERFERENCE WITH EQUIPMENT SUCH AS BASEBOARD FIN-TUBE, CABINET UNIT HEATERS, ETC. ARCHITECT/ENGINEER SHALL BE NOTIFIED OF ALL SUCH HEIGHT ADJUSTMENTS. MOUNTING HEIGHTS INDICATED ON ARCHITECTURAL WALL ELEVATIONS OR AS NOTED SPECIFICALLY ON THE DRAWINGS OR IN THE SPECIFICATIONS SHALL TAKE PRECEDENCE OVER MOUNTING HEIGHTS LISTED.

ELECTRICAL PROJECT GENERAL NOTES

A. PRIOR TO BID CONTRACTOR SHALL VISIT THE SITE. NOT ALL WORK REQUIRED TO COMPLETE THE PROJECT IS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH ALL THE WORK REQUIRED TO COMPLETE THE PROJECT IN ADDITION TO THE LOCAL CONDITIONS AND INCLUDE SAID WORK IN THE BID.
B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL ELECTRICAL SERVICE WORK WITH UTILITY. OWNER PAYS ALL FEES. CONTRACTOR DOES ALL SCHEDULING AND COORDINATION OF WORK. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL SCHEDULES ARE MET.
C. GENERAL WORK PRACTICES FOR ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NECA 1, "STANDARD PRACTICES FOR GOOD WORKMANSHIP IN ELECTRICAL CONTRACTING." THIS PUBLICATION IS AVAILABLE FROM NECA BY TELEPHONE AT 301-657-3110 OR ON-LINE AT WWW.NECANET.ORG.
D. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE WITH MECHANICAL FOR PLENUM SPACES AND PROVIDE PLENUM RATED CABLES WHERE REQUIRED FOR LIGHTING CONTROL, DATA, FIRE ALARM AND ALL OTHER L.V. SYSTEMS NOT INSTALLED IN CONDUIT. VERIFY CONDUIT REQUIREMENTS ON DRAWINGS AND SPECIFICATIONS.
E. FIRE-RESISTANCE: PROVIDE A MINIMUM HORIZONTAL DISTANCE OF 24" BETWEEN OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE-RESISTANCE RATED WALLS. WHERE THIS IS NOT POSSIBLE INSTALL UL LISTED PUTTY PADS ON ALL OUTLET BOXES NOT MEETING THE 24" SEPARATION. PROVIDE A UL LISTED THROUGH -PENETRATION FIRESTOP FOR PENETRATIONS OF FIRE-RESISTANCE RATED ASSEMBLIES.
F. CONDUCTORS ARE SIZED PER THE 75 DEGREE C RATING COLUMN OF NEC TABLE 310.16. IF THE TERMINAL USED FOR A TERMINATION OF A PARTICULAR CONDUCTOR IS NOT MARKED, OR THE TERMINAL IS MARKED FOR 60 DEGREE C CONDUCTORS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EITHER ADJUST THE AMPACITY OF THE CONDUCTOR TO MATCH THE 60 DEGREE COLUMN OF TABLE 310.16, OR REPLACE THE TERMINAL WITH ONE RATED FOR AT LEAST 75 DEGREES C.
G. BASED ON ACTUAL HOMERUN LENGTHS REQUIRED IN THE FIELD, THE CONTRACTOR SHALL CALCULATE AND INCREASE THE WIRE SIZES AS REQUIRED TO LIMIT BRANCH CIRCUIT VOLTAGE DROP TO 3%. FOR 20A BRANCH CIRCUITS THE MINIMUM CONDUCTOR SIZES SHALL BE AS FOLLOWS: #10 AWG CU FOR RUNS BETWEEN 100 AND 200 LINEAR FEET, #8 AWG CU FOR RUNS BETWEEN 200 AND 325 LINEAR FEET, AND AS CALCULATED BY THE CONTRACTOR FOR CIRCUITS EXTENDING BEYOND 325 LINEAR FEET. IN ALL CASES WHERE WIRE SIZES INCREASE, THE CONTRACTOR SHALL PROVIDE LARGER CONDUITS AS REQUIRED.
H. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V BRANCH CIRCUIT.

ELECTRICAL PROJECT DEMO NOTES

A. DURING DEMOLITION, THE CONTRACTOR SHALL NOTE ALL EXISTING RACEWAY (BOTH SURFACE AND CONCEALED) TO THE EXTENT POSSIBLE. THESE RACEWAYS SHALL BE REUSED TO THE GREATEST EXTENT POSSIBLE TO INSURE A CLEAN FINISHED PRODUCT. WHERE PRACTICAL, AND ALLOWED PER CODE, FISHING THROUGH WALLS WITH MC CABLE IS PREFERRED TO SURFACE-MOUNTED CONDUIT.
B. CONTRACTOR SHALL REMOVE, TRANSPORT, AND LEGALLY DISPOSE OF LAMPS AND BALLASTS OFF-SITE. IT IS ASSUMED THAT THE BALLASTS DO NOT CONTAIN PCBs. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY IF IT IS SUSPECTED THAT BALLASTS CONTAIN PCBs.
C. ALL POWER INTERRUPTIONS SHALL BE COORDINATED WITH OWNER. ANY DISRUPTION OF WORKERS IN THE SPACE SHALL BE KEPT TO A MINIMUM AND BE COORDINATED WITH THE OWNER PRIOR TO WORK COMMENCING IN THAT SPACE.
D. CONTRACTOR SHALL EXTEND UNSWITCHED HOT LEG FROM EXISTING EMERGENCY FIXTURE LOCATION TO NEW EMERGENCY FIXTURES, AS NEEDED. SEE DEMO PLANS FOR AN APPROXIMATION OF EXISTING EMERGENCY FIXTURE LOCATIONS. FIELD VERIFY EXACT LOCATION PRIOR TO BID.
E. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY EXISTING CONDUIT OR FEEDER CIRCUITS THAT ARE INTENDED TO REMAIN THAT ARE SAW-CUT, OR OTHERWISE DAMAGED, AS PART OF THE DEMOLITION PROCESS. PROVISION FOR THIS WORK SHALL INCLUDE, BUT NOT BE LIMITED TO: ALL NECESSARY CONDUIT AND CONDUCTORS, MOUNTING ACCESSORIES AND LABOR, TO RESTORE THE SYSTEM TO ITS INTENDED FUNCTION.
F. ELECTRICAL DRAWINGS SHOWING EXISTING BUILDING CONDITIONS, SUCH AS DEMOLITION DRAWINGS, EXISTING PANEL SCHEDULES, ETC ARE BASED ON RECORD DRAWINGS AND SITE VISITS. IF ACTUAL EXISTING CONDITIONS DIFFER FROM THOSE SHOWN ON DRAWINGS, PLEASE NOTIFY ENGINEER.

ELECTRICAL SHEET INDEX

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REST ROOM BUILDINGS FOR:
TEMPORARY SAFE
OUTDOOR SPACE
1975 BROADWAY, MISSOULA MT 59808

PLAN REVIEW : 06.24.2025
BID SET: 07.11.2025

edinc Job #: 24.119

THIS SHEET IS INTENDED TO BE PRINTED IN COLOR TO FULLY UNDERSTAND THE INFORMATION BEING PRESENTED.

E0.1

Exhibit A

260519 - CONDUCTORS

A. FEEDERS: COPPER , TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY.
B. BRANCH CIRCUITS: COPPER, TYPE THHN/THWN-2, SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR NO. 8 AWG AND LARGER. SINGLE CONDUCTORS IN RACEWAY OR METAL-CLAD CABLE, (TYPE MC).
C. CORD DROPS AND PORTABLE APPLIANCE CONNECTIONS: TYPE SO, CORD WITH STAINLESS-STEEL, WIRE-MESH, STRAIN RELIEF DEVICE AT TERMINATIONS.
D. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120 V BRANCH CIRCUIT.

260526 - GROUNDING AND BONDING

A. GROUNDING ELECTRODE CONDUCTOR: BARE COPPER, SIZED PER NEC 250.66.
B. BONDING CONDUCTOR: BARE COPPER FOR LENGTHS OF 6 FEET OR LESS, COPPER WITH INSULATION IN PVC CONDUIT (METALLIC CONDUIT IN AIR PLENUM) WHERE LONGER THAN 6 FEET IN LENGTH. IF METALLIC CONDUIT IS USED, PROVIDE BONDING BUSHING AT EACH END. SIZE PER NEC 250.102.
C. EQUIPMENT GROUND CONDUCTOR: COPPER WITH GREEN INSULATION (LARGER WIRES MAY BE PERMANENTLY MARKED WITH GREEN), SIZED PER NEC 250.122. DO NOT RELY ON CONDUIT FOR THE GROUNDING PATH.
D. GROUNDING BUS: RECTANGULAR COPPER BAR, 1/4" X 4" X 12" WITH 9/32" HOLES SPACED 1-1/8" APART. WALL-MOUNT WITH STAND-OFF INSULATORS.
E. UFER GROUND (CONCRETE-ENCASED GROUNDING ELECTRODE): FABRICATE ACCORDING TO NFPA 70. USE A MINIMUM OF 20 FEET OF BARE COPPER CONDUCTOR NOT SMALLER THAN #4 AWG. IF CONCRETE FOUNDATION IS LESS THAN 20 FEET LONG, COIL EXCESS CONDUCTOR WITHIN BASE OF FOUNDATION. BOND GROUNDING CONDUCTOR TO REINFORCING STEEL IN AT LEAST FOUR LOCATIONS AND TO ANCHOR BOLTS. EXTEND GROUNDING CONDUCTOR BELOW GRADE AND CONNECT TO BUILDING'S GROUNDING GRID OR TO GROUNDING ELECTRODE EXTERNAL TO CONCRETE.
F. GROUND RODS: COPPER-CLAD STEEL; 3/4 INCH BY 10 FEET. DRIVE RODS UNTIL TOPS ARE 2 INCHES BELOW FINISHED FLOOR OR FINAL GRADE. INSTALL AT LEAST 2 GROUND RODS, SPACED AT LEAST 10 FEET FROM EACH OTHER AND LOCATED AT LEAST THE SAME DISTANCE FROM OTHER GROUNDING ELECTRODES.
G. GROUND ROD CLAMPS: MECHANICAL TYPE, COPPER OR COPPER ALLOY, TERMINAL WITH HEX HEAD BOLT.
H. PIPE CONNECTORS: COPPER OR COPPER ALLOY, PRESSURE TYPE CLAMP, SIZED FOR PIPE. SECURED WITH AT LEAST TWO BOLTS. BOND EACH ABOVEGROUND PORTION OF GAS PIPING SYSTEM DOWNSTREAM FROM EQUIPMENT SHUTOFF VALVE.
I. WATER PIPE CONNECTORS: MECHANICAL TYPE, TWO-PIECE, DIE-CAST ZINC ALLOY WITH ZINC-PLATED BOLTS. LISTED FOR DIRECT BURIAL. WHERE A DIELECTRIC MAIN WATER FITTING IS INSTALLED, CONNECT GROUNDING CONDUCTOR ON STREET SIDE OF FITTING. BOND METAL GROUNDING CONDUCTOR CONDUIT OR SLEEVE TO CONDUCTOR AT EACH END. USE BRAIDED-TYPE BONDING JUMPERS TO ELECTRICALLY BYPASS WATER METERS. CONNECT TO PIPE WITH A BOLTED CONNECTOR.
J. WELDED CONNECTORS: EXOTHERMIC-WELDING KITS OF TYPES RECOMMENDED BY KIT MANUFACTURER FOR MATERIALS BEING JOINED AND INSTALLATION CONDITIONS.
K. BUS-BAR CONNECTORS: MECHANICAL TYPE, CAST SILICON BRONZE, SOLDERLESS COMPRESSION-TYPE WIRE TERMINALS, AND LONG-BARREL, TWO-BOLT CONNECTION TO GROUND BUS BAR.
L. BEAM CLAMPS: WHEN AVAILABLE, BOND STRUCTURAL STEEL TO GROUNDING ELECTRODE SYSTEM WITH MECHANICAL TYPE CLAMP TERMINAL WITH GROUND WIRE ACCESS FROM FOUR DIRECTIONS, AND DUAL, TIN-PLATED OR SILICON BRONZE BOLTS.
M. UNDERGROUND GROUNDING CONDUCTORS: INSTALL BARE TINNED-COPPER CONDUCTOR, NO. 2/0 AWG MINIMUM. BURY AT LEAST 24 INCHES BELOW GRADE.
N. BONDING INTERIOR METAL DUCTS: BOND METAL AIR DUCTS TO EQUIPMENT GROUNDING CONDUCTORS OF ASSOCIATED FANS, BLOWERS, ELECTRIC HEATERS, AND AIR CLEANERS. INSTALL BONDING JUMPER TO BOND ACROSS FLEXIBLE DUCT CONNECTIONS TO ACHIEVE CONTINUITY. SIZE BONDING CONDUCTORS AND JUMPERS IN ACCORDANCE WITH NEC 250.122, USING THE RATING OF THE CIRCUIT THAT IS LIKELY TO ENERGIZE THE DUCTS.

260533 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

A. MINIMUM RACEWAY SIZE: 1 INCH TRADE SIZE FOR TELECOM/DATA AND 3/4 INCH TRADE SIZE FOR ALL OTHER APPLICATIONS.
B. INSTALL NONMETALLIC CONDUIT OR TUBING FOR PROTECTING BARE GROUNDING CONDUCTORS.
C. DO NOT INSTALL RACEWAYS OR ELECTRICAL ITEMS ON ANY "EXPLOSION-RELIEF" WALLS OR ROTATING EQUIPMENT.
D. DO NOT FASTEN CONDUITS ONTO THE BOTTOM SIDE OF A METAL DECK ROOF.
E. KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES AND STEAM OR HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER AND STEAM PIPING.
F. ARRANGE STUB-UPS SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE FINISHED SLAB.
G. INSTALL NO MORE THAN THE EQUIVALENT OF THREE 90-DEGREE BENDS IN ANY CONDUIT RUN EXCEPT FOR CONTROL WIRING CONDUITS, FOR WHICH FEWER BENDS ARE ALLOWED. SUPPORT WITHIN 12 INCHES OF CHANGES IN DIRECTION. SUPPORT CONDUIT WITHIN 12 INCHES OF ENCLOSURES TO WHICH IT IS ATTACHED.
H. UNLESS BURIED, INSTALL ALL CONDUITS PARALLEL OR PERPENDICULAR TO BUILDING LINES.
I. INSTALL RACEWAYS SQUARE TO THE ENCLOSURE AND TERMINATE AT ENCLOSURES WITH LOCKNUTS. INSTALL LOCKNUTS HAND TIGHT PLUS 1/4 TURN MORE. DO NOT RELY ON LOCKNUTS TO PENETRATE NONCONDUCTIVE COATINGS ON ENCLOSURES. REMOVE COATINGS IN THE LOCKNUT AREA PRIOR TO ASSEMBLING CONDUIT TO ENCLOSURE TO ENSURE A CONTINUOUS GROUND PATH.
J. RACEWAYS MAY BE INSTALLED UNDER THE CONCRETE SLAB, BUT NO CONDUITS SHALL BE EMBEDDED WITHIN THE SLAB. DIRECT-BURIED CONDUIT - INSTALL MANUFACTURED RIGID STEEL CONDUIT ELBOWS FOR STUB-UPS AT POLES AND EQUIPMENT AND AT BUILDING ENTRANCES THROUGH FLOOR. ANY METALLIC CONDUIT THAT DOES OR MAY COME INTO CONTACT WITH SOIL SHALL BE COATED WITH TWO COATS OF BITUMASTIC OR TWO LAYERS OF 10 MIL. CORROSION PROTECTION TAPE.
K. INSTALL FIRESTOPPING AT PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES.
L. INSTALL SLEEVES AND SLEEVE SEALS AT PENETRATIONS OF EXTERIOR FLOOR AND WALL ASSEMBLIES. INCLUDE CAST-IRON PIPE SLEEVES SIZED TO ALLOW FOR 1-INCH ANNULAR CLEAR SPACE BETWEEN RACEWAY OR CABLE AND SLEEVE FOR INSTALLING SLEEVE-SEAL SYSTEM WHICH INCLUDES MANUFACTURED EPDM RUBBER INTERLOCKING LINKS SHAPED TO FIT SURFACE OF PIPE AND WITH NUMBER REQUIRED FOR PIPE MATERIAL AND SIZE OF PIPE. INCLUDE STAINLESS STEEL PRESSURE PLATES AND CONNECTING BOLTS AND NUTS.
M. INDOOR RACEWAYS:
   1. EXPOSED, NOT SUBJECT TO PHYSICAL DAMAGE: EMT.
   2. EXPOSED AND SUBJECT TO SEVERE PHYSICAL DAMAGE: RIGID STEEL CONDUIT.
   3. CONCEALED IN NEW CEILINGS AND INTERIOR WALLS AND PARTITIONS: EMT OR MC CABLE.
   4. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): FMC, EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
   5. DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT.
   6. BOXES AND ENCLOSURES: NEMA 250, TYPE 1, EXCEPT USE NEMA 250, TYPE 3R, NONMETALLIC IN DAMP OR WET LOCATIONS.
   7. RACEWAY FITTINGS: COMPATIBLE WITH RACEWAYS AND SUITABLE FOR USE AND LOCATION.
   8. RIGID AND INTERMEDIATE STEEL CONDUIT: USE THREADED RIGID STEEL CONDUIT FITTINGS, UNLESS NOTED OTHERWISE.
   9. INSTALL SURFACE RACEWAYS ONLY WHERE SPECIFICALLY INDICATED ON DRAWINGS. INSTALL SURFACE RACEWAY WITH A MINIMUM 2-INCH RADIUS CONTROL AT BEND POINTS.
   10. FLEXIBLE CONDUIT CONNECTIONS: MAXIMUM OF 72 INCHES OF FLEXIBLE CONDUIT FOR RECESSED AND SEMI-RECESSED LUMINAIRES, EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT; AND FOR TRANSFORMERS AND MOTORS. USE LFMC IN DAMP OR WET LOCATIONS SUBJECT TO SEVERE PHYSICAL DAMAGE. USE LFMC OR LFNC IN DAMP OR WET LOCATIONS NOT SUBJECT TO SEVERE PHYSICAL DAMAGE.
N. OUTDOOR RACEWAYS:
   1. EXPOSED CONDUIT: RIGID STEEL CONDUIT.
   2. CONCEALED CONDUIT, ABOVE GROUND: EMT.
   3. UNDERGROUND CONDUIT: RNC, TYPE EPC-40-PVC, DIRECT BURIED. USE TYPE EPC-80-PVC UNDER PAVED SURFACES.
   4. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): LFNC.
   5. BOXES AND ENCLOSURES, ABOVE GROUND: NEMA250, TYPE 3R.
O. ENCLOSURES – BOXES AND ENCLOSURES FOR PANELBOARD, DISCONNECT SWITCH AND MOTOR CONTROL UNITS, ETC. BASED ON THE INSTALLATION LOCATIONS/ENVIRONMENTS.
   1. INDOOR, DRY AND CLEAN LOCATIONS: NEMA 250, TYPE 1.
   2. OUTDOOR LOCATIONS: NEMA 250, TYPE 3R.
   3. KITCHEN/WASH-DOWN AREAS: NEMA 250, TYPE 4X, STAINLESS STEEL.
   4. OTHER WET OR DAMP, INDOOR LOCATIONS: NEMA 250, TYPE 4.
   5. INDOOR LOCATIONS SUBJECT TO DUST, FALLING DIRT, AND DRIPPING NONCORROSIVE LIQUIDS: NEMA 250, TYPE 12.
   6. HAZARDOUS AREAS INDICATED ON DRAWINGS: NEMA 250, TYPE 7/TYPE 9 WITH COVER ATTACHED BY TYPE 316 STAINLESS STEEL BOLTS.
P. GENERAL BOX MOUNTING
   1. MOUNT BOXES AT HEIGHTS INDICATED ON DRAWINGS. IF MOUNTING HEIGHTS OF BOXES ARE NOT INDIVIDUALLY INDICATED, GIVE PRIORITY TO ADA REQUIREMENTS. INSTALL BOXES WITH HEIGHT MEASURED TO CENTER OF BOX UNLESS OTHERWISE INDICATED.
   2. HORIZONTALLY SEPARATE BOXES MOUNTED ON OPPOSITE SIDES OF WALL SO THEY ARE NOT IN THE SAME VERTICAL CHANNEL.
   3. LOCATE BOXES SO THAT COVER OR PLATE WILL NOT SPAN DIFFERENT BUILDING FINISHES.
   4. FASTEN JUNCTION AND PULL BOXES TO OR SUPPORT FROM BUILDING STRUCTURE. DO NOT SUPPORT BOXES BY CONDUITS.
   5. SET METAL FLOOR BOXES LEVEL AND FLUSH WITH FINISHED FLOOR SURFACE.

262416 - PANELBOARDS

A. FLUSH AND SURFACE-MOUNTED ENCLOSURES (AS NOTED ON PLANS) WITH DEAD-FRONT CABINETS. RATED FOR ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION.
B. MAXIMUM HEIGHT CABINET
   a. STANDARD: 84 INCHES TO TOP OF ENCLOSURE (SO THAT MAXIMUM HEIGHT OF HIGHEST BREAKER IS 78 INCHES MAXIMUM).
   b. ADA DWELLING UNITS: 54 INCHES TO TOP OF ENCLOSURE (SO THAT MAXIMUM HEIGHT OF HIGHEST BRANCH BREAKER IS 48 INCHES MAXIMUM AND THE MINIMUM HEIGHT OF LOWEST BRANCH BREAKER IS 16 INCHES).
C. INCOMING MAINS LOCATION: TOP OR BOTTOM AS DETERMINED BY CONTRACTOR, UNLESS OTHERWISE INDICATED ON DRAWINGS, UNO.
D. HARD-DRAWN COPPER PHASE, NEUTRAL, AND GROUND BUSES WITH 98 PERCENT CONDUCTIVITY. MECHANICAL TYPE LUGS WITH A LUG ON THE NEUTRAL AND GROUND BARS FOR EACH BREAKER POLE IN THE PANELBOARD. CONDUCTOR CONNECTORS SHALL BE SUITABLE FOR USE WITH CONDUCTOR MATERIAL, QUANTITY AND SIZES (REFER TO THE FEEDER SCHEDULE).
E. PANELBOARD SHORT-CIRCUIT CURRENT RATING: FULLY RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AVAILABLE AT TERMINALS. ASSEMBLY SHALL BE LISTED BY AN NRTL FOR 100 PERCENT INTERRUPTING CAPACITY. ALL OVERCURRENT PROTECTIVE DEVICES (OCPDS) SHALL BE FULLY RATED FOR AVAILABLE FAULT CURRENT. NO SERIES RATING WILL BE ALLOWED.
F. BRANCH OVERCURRENT PROTECTIVE DEVICES - BOLT-ON CIRCUIT BREAKERS OR PLUG-IN CIRCUIT BREAKERS WHERE INDIVIDUAL POSITIVE-LOCKING DEVICE REQUIRES MECHANICAL RELEASE FOR REMOVAL. REPLACEABLE WITHOUT DISTURBING ADJACENT UNITS. MOLDED CASE CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE ONLY AND SUITABLE FOR INDIVIDUAL AS WELL AS PANELBOARD MOUNTING. NO BREAKERS DESIGNATED "PLUG-ON" TYPE ALLOWED UNLESS SPECIFICALLY NOTED ON PLANS.
G. BREAKERS SHALL BE ONE- OR TWO POLE AS SCHEDULED, OPERATE MANUALLY FOR NORMAL ON-OFF SWITCHING AND AUTOMATICALLY UNDER OVERLOAD AND SHORT CIRCUIT CONDITIONS.
H. THE OPERATING HANDLE SHALL OPEN AND CLOSE ALL POLES SIMULTANEOUSLY ON MULTI-POLE BREAKERS. THE OPERATING MECHANISM SHALL BE TRIP-FREE SO THAT CONTACTS CANNOT BE HELD CLOSED AGAINST ABNORMAL OVERCURRENT OR SHORT CIRCUIT CONDITIONS. DO NOT USE SINGLE-POLE CIRCUIT BREAKERS WITH HANDLE TIES WHERE MULTI-POLE BREAKERS ARE INDICATED ON THE PANEL SCHEDULE OR WHERE REQUIRED FOR POLY-PHASE LOADS.
I. BREAKERS SHALL BE OF THE TYPE NOTED ON PANEL SCHEDULE (SHUNT-TRIP, GFI, ARC-FAULT, ETC.) OR AS REQUIRED BY THE EQUIPMENT BEING PROVIDED.
J. BREAKERS NOTED AS GFI PROTECTED FOR EQUIPMENT SHALL HAVE A 30mA OR GREATER TRIP.
K. BREAKERS NOTED AS GFI PROTECTED FOR PERSONNEL SHALL HAVE A 6mA TRIP.
L. A CONTROL TRANSFORMER WITH PRIMARY AND SECONDARY FUSING SHALL BE PROVIDED AS REQUIRED FOR CONTROL OF SHUNT-TRIP BREAKERS.
M. ARRANGE CONDUCTORS IN GUTTERS INTO GROUPS AND BUNDLE AND WRAP WITH WIRE TIES.

262726 - WIRING DEVICES

A. STRAIGHT-BLADE RECEPTACLES - DUPLEX CONVENIENCE RECEPTACLES, 125V, 20A: COMPLY WITH NEMA WD 1, NEMA WD 6 CONFIGURATION 5-20R, UL 498, AND FS W-C-596.
   1. COOPER; 5351 (SINGLE), 5362 (DUPLEX), 5362CH (HALF-CONTROLLED DUPLEX) TR5362 (TAMPER DUPLEX).
   2. HUBBELL; HBL5361 (SINGLE), HBL5362 (DUPLEX), BR20C1 (HALF-CONTROLLED DUPLEX) HBL5362TR (TAMPER DUPLEX).
   3. LEVITON; 5361 (SINGLE), 5362 (DUPLEX), 5362-S1 (HALF-CONTROLLED DUPLEX)5362-SG (TAMPER DUPLEX).
   4. P&S; 5351 (SINGLE), CRB5362 (DUPLEX), 5362CDW (HALF-CONTROLLED DUPLEX) TR5352 (TAMPER DUPLEX).
B. GFCI RECEPTACLES - 125V, 20A, DUPLEX, STRAIGHT BLADE, NON-FEED-THROUGH TYPE. COMPLY WITH NEMA WD 1, NEMA WD 6 CONFIGURATION 5-20R, UL 498, UL 943 CLASS A, AND FS W-C-596. INCLUDE SELF-TESTING AND INDICATOR LIGHT THAT SHOWS WHEN THE GFCI HAS MALFUNCTIONED AND NO LONGER PROVIDES PROPER GFCI PROTECTION.
   1. COOPER; VGF20 (STANDARD), TRVGF20 (TAMPER), WRSGF20 (OUTDOOR).
   2. HUBBELL; GFR5352L (STANDARD), GFRTRST20 (TAMPER), GFTWRST20 (OUTDOOR).
   3. LEVITON; GFNT2 (STANDARD), GFTR2-KW (TAMPER), GFWR2 (OUTDOOR).
   4. P&S; 2097 (STANDARD), 2097TR (TAMPER), 2097TRWR (OUTDOOR).
C. TOGGLE SWITCHES - 120/277V, 20A. COMPLY WITH NEMA WD 1, UL 20, AND FS W-S-896.
   1. COOPER; AH1221 (SINGLE-POLE), AH1222 (TWO-POLE), AH1223 (THREE-WAY), AH1224 (FOUR-WAY).
   2. HUBBELL; HBL1221 (SINGLE-POLE), HBL1222 (TWO-POLE), HBL1223 (THREE-WAY), HBL1224 (FOUR-WAY).
   3. LEVITON; 1221-2 (SINGLE-POLE), 1222-2 (TWO-POLE), 1223-2 (THREE-WAY), 1224-2 (FOUR-WAY).
   4. P&S; CSB20AC1 (SINGLE-POLE), CSB20AC2 (TWO-POLE), CSB20AC3 (THREE-WAY), CSB20AC4 (FOUR-WAY).
D. DEVICE COLOR - AS SELECTED BY ARCHITECT UNLESS OTHERWISE INDICATED OR REQUIRED BY NFPA 70 OR DEVICE LISTING.
E. WALL PLATES
   1. INDOOR FINISHED AREAS - SMOOTH, HIGH-IMPACT THERMOPLASTIC WITH COLOR TO MATCH CORRESPONDING WIRING DEVICES.
   2. INDOOR UNFINISHED AREAS - GALVANIZED STEEL.
   3. OUTSIDE AND WET-LOCATIONS - NEMA 250, COMPLYING WITH TYPE 3R, WEATHERPROOF-IN-USE, DIE-CAST ALUMINUM WITH LOCKABLE COVER.
F. IDENTIFICATION - IDENTIFY PANELBOARD AND CIRCUIT NUMBER FROM WHICH THE DEVICE IS SERVED.
   1. MARK INSIDE OF BOX OR COVERPLATE WITH PERMANENT MARKER. TEST TO ENSURE THAT MARKER LINES ARE NOT VISIBLE ON OUTSIDE OF COVER WHEN IT IS INSTALLED.
   2. MARK OUTSIDE OF COVERPLATE USING LABELER SUCH AS BROTHER PT-90 TO PRODUCE 1/8" BLACK LETTERS (WHITE LETTERS IF COVER IS DARK) ON CLEAR TAPE.
G. WEATHER STRIPPING - BEHIND EXTERIOR WALL DEVICES INSTALL A PRECUT FOAM INSULATION PAD OVER THE FIXTURE AND REINSTALL THE COVER.

262813 - FUSES

A. APPLY FUSES IN THE FOLLOWING CIRCUMSTANCES:
   1. SERVICE ENTRANCE: CLASS L OR CLASS RK-1, TIME DELAY.
   2. FEEDERS AND BRANCH CIRCUITS: CLASS L OR CLASS RK-1, TIME DELAY.
   3. MOTORS, WELDERS, TRANSFORMERS: CLASS RK-5, TIME DELAY.
   4. CONTROL CIRCUITS: CLASS CC, FAST ACTING.
   5. LUMINAIRES: IN ACCORDANCE WITH FIXTURE MANUFACTURER'S GUIDELINES.
   6. PLUG FUSTATS: TYPE S, TIME DELAY WITH REJECTION BASE.
B. SIZE FUSES AS SHOWN AND SPECIFIED, OR AS REQUIRED BY LOAD BEING SERVED. WHERE FUSING IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES REQUIRES SMALLER FUSES, PROVIDE NECESSARY REDUCERS WITH NO ADDITIONAL COST TO OWNER.

265110 - LED LIGHTING

A. GENERAL - ALL FIXTURES SHALL HAVE LED LIGHT SOURCES UNO.
   1. INTERNAL FACTORY INSTALLED BALLAST/DRIVER UNO.
   2. DIMMABLE FROM 100% TO 10% OF MAXIMUM LIGHT OUTPUT.
   3. NOMINAL OPERATING VOLTAGE: AS NOTED ON THE PLANS.
   4. LENS THICKNESS: AT LEAST 0.125 INCH MINIMUM UNO.
   5. INDOOR FIXTURES: MINIMUM CRI OF 80 UNO AND CCT OF 4100K UNO.
   6. OUTDOOR FIXTURES: MINIMUM CRI OF 65 UNO AND CCT OF 3000K UNO.
   7. OUTDOOR FIXTURES SHALL HAVE FULL CUT-OFF REFLECTORS WITH MOUNTING TYPE AND DISTRIBUTION AS NOTED ON PLANS.
B. LED ASSEMBLIES - UL RATED FOR 40 DEGREE C AMBIENT ENVIRONMENTS, 50,000 HOUR FIXTURE LIFE INCLUDING DRIVER, 5 YEAR WARRANTY AND COMPLIANT WITH IESNA LM-79 AND LM-80 STANDARDS.
C. STANDARDS - UNO, COMPLY WITH THE FOLLOWING:
   1. ENERGY STAR OR DESIGN LIGHTS CONSORTIUM (DLC) CERTIFIED.
   2. NRTL COMPLIANCE: LUMINAIRES FOR HAZARDOUS LOCATIONS SHALL BE LISTED AND LABELED FOR INDICATED CLASS AND DIVISION OF HAZARD BY AN NRTL.
   3. UL LISTING: LISTED FOR DAMP AND/OR WET LOCATIONS AS REQUIRED.
   4. RECESSED LUMINAIRES SHALL COMPLY WITH NEMA LE 4.
   5. EXTERIOR LUMINAIRES SHALL HAVE INTERNATIONAL DARK-SKY ASSOCIATION (IDA) - FIXTURE SEAL OF APPROVAL (FSA).
D. FIRE RATED ASSEMBLIES: FIXTURES INSTALLED IN FIRE RATED ASSEMBLIES SHALL MAINTAIN THE FIRE RATING OF SAID ASSEMBLY. CONTRACTOR IS REQUIRED TO COORDINATE WITH ARCHITECTURAL DRAWINGS TO VERIFY ASSEMBLY RATINGS.
E. INSULATED CEILING SPACE: FIXTURES INSTALLED IN AN INSULATED CEILING SHALL BE IC RATED AND HAVE MANUFACTURER RECOMMENDED CLEARANCES BETWEEN FIXTURE AND INSULATION. CONTRACTOR IS REQUIRED TO COORDINATE WITH ARCHITECTURAL DRAWINGS TO VERIFY INSULATED AREAS ABOVE CEILINGS.
F. EMERGENCY POWER UNIT - OPERATES ALL OR A PORTION OF LED LAMPS CONTINUOUSLY AT AN OUTPUT OF 1100 LUMENS. SEALED, MAINTENANCE-FREE, NICKEL-CADMIUM BATTERY, FULLY AUTOMATIC, SOLID-STATE CHARGER WITH SEALED TRANSFER RELAY, PUSH-TO-TEST BUTTON, LED INDICATOR LIGHT AND INTEGRAL SELF-TEST FUNCTION.
   1. INTERNAL TYPE - SELF-CONTAINED. FACTORY MOUNTED WITHIN LIGHTING FIXTURE BODY AND COMPATIBLE WITH BALLAST/DRIVER.
   2. EXTERNAL TYPE - SELF-CONTAINED, REMOTE MOUNTED FROM LIGHTING FIXTURE AND COMPATIBLE WITH FIXTURE BALLAST/DRIVER.
G. EXIT SIGNS - INTERNALLY LIT WITH 50,000 HOURS MINIMUM RATED LEDS, SEALED, MAINTENANCE-FREE, NICKEL-CADMIUM BATTERY, FULLY AUTOMATIC, SOLID-STATE CHARGER WITH SEALED TRANSFER RELAY, PUSH-TO-TEST BUTTON, LED INDICATOR LIGHT AND INTEGRAL SELF-TEST FUNCTION.
H. EMERGENCY LIGHTING UNITS – SIZED FOR 90-MINUTE EMERGENCY OPERATION OF FIXTURE(S). SEALED, MAINTENANCE-FREE, LEAD-ACID BATTERY, FULLY AUTOMATIC, SOLID-STATE CHARGER WITH SEALED TRANSFER RELAY, PUSH-TO-TEST BUTTON, LED INDICATOR LIGHT AND INTEGRAL SELF-TEST FUNCTION.
I. STEEL POLES – POWDER COATED, ROUND OR SQUARE TO BEST MATCH FIXTURE. STRAIGHT FOR POLES UP TO 25 FEET, TAPERED FOR POLES GREATER THAN 25 FEET. INCLUDE VIBRATION DAMPER. PROVIDE BUTT FLANGE FOR BOLTED MOUNTING ON FOUNDATION, OR BREAKAWAY SUPPORT AS REQUIRED. PROVIDE OVAL SHAPED HANDHOLE, MINIMUM CLEAR OPENING OF 2-1/2 BY 5 INCHES, WITH COVER SECURED BY STAINLESS-STEEL CAPTIVE SCREWS.

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TEMPORARY SAFE OUTDOOR SPACE
1975 BROADWAY, MISSOULA MT 59808

PLAN REVIEW : 06.24.2025
BID SET: 07.11.2025

edinc Job #: 24.119

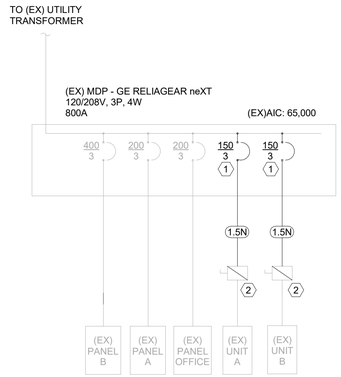
THIS SHEET IS INTENDED TO BE PRINTED IN COLOR TO FULLY UNDERSTAND THE INFORMATION BEING PRESENTED.

E0.1

Exhibit A

KEY NOTES:

1. PROVIDE NEW 100% RATED BREAKER IN EXISTING GE RELIAGEAR neXT.
2. REPLACE EXISTING FUSES WITH NEW 150A FUSES.



1 ONE-LINE DIAGRAM
N.T.S.

NOTE:
EXISTING ELECTRICAL SERVICE TO REMAIN.

FEEDER SIZE:
(1.5N) = (4) #1/0 CU & (1) #6 CU CABLE IN 2-1/2" C .

Branch Panel: A (EXISTING)

Location: RESTROOM/SHOWER BUILDING
Supply From: SEE ONE-LINE
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.F.C.: 21,703
Mains Type: MLO
Mains Rating: 150 A

Notes:

CKT	Circuit Description	Load Classification	Trip	Poles	A		B		C		Poles	Trip	Load Classification	Circuit Description	CKT
1	EH-5 - CRAWLSPACE	Heating	20 A	1	500	5288					2	20 A	Heating	(EX) WH-1	2
3	(EX) EH-2 - MECHANICAL ROOM 02	Heating	20 A	1			500	5288							4
5	(EX) EH-3 - ACCESSIBLE SHOWER ROOM 01	Heating	20 A	2					1000	5288	2	20 A	Heating	(EX) WH-2	6
7					1000	5288									8
9	(EX) EH-3 - SHOWER ROOM 04	Heating	20 A	2			1000	1260			1	20 A	Receptacle	(EX) RCPT - GENERAL	10
11									1000	240	1	20 A	HVAC	(EX) ERV-1	12
13	(EX) EH-4 - MAIN BATHROOM	Heating	20 A	3	1667	44					1	20 A	Lighting	(EX) LTG - EXTERIOR	14
15							1667	1012			1	20 A	Motor	(EX) RCP-1	16
17									1667	0	1	20 A	--	SPARE	18
19	(EX) LTG - GENERAL & EF-1 01/04	Lighting; Motor	20 A	1	708	0					1	20 A	--	SPARE	20
21	(EX) PWR - DUCT HEATER DH	Power	20 A	2			1500	0			1	20 A	--	SPARE	22
23									1500	0	1	20 A	--	SPARE	24
				Total Load:	14448 VA		12226 VA		10694 VA						
				Total Amps:	122 A		104 A		89 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	240 VA	100.00%	240 VA		
Heating	31150 VA	100.00%	31150 VA	**Total Conn. Load:**	37368 VA
Lighting	244 VA	125.00%	305 VA	**Total Est. Demand:**	37678 VA
Motor	1492 VA	116.96%	1745 VA	**Total Conn.:**	104 A
Power	3000 VA	100.00%	3000 VA	**Total Est. Demand:**	105 A
Receptacle	1260 VA	100.00%	1260 VA		

Notes:

Branch Panel: B (EXISTING)

Location: RESTROOM/SHOWER BUILDING
Supply From: SEE ONE-LINE
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.F.C.: 21,703
Mains Type: MLO
Mains Rating: 150 A

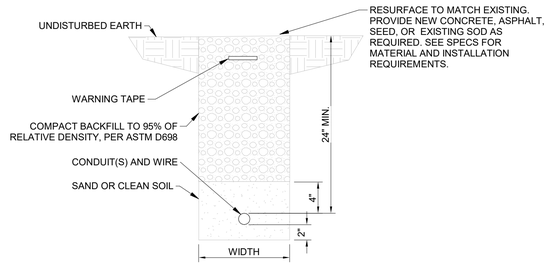
Notes:

CKT	Circuit Description	Load Classification	Trip	Poles	A		B		Poles	Trip	Load Classification	Circuit Description	CKT
1	EH-5 - CRAWLSPACE	Heating	20 A	1	500	5288			2	20 A	Heating	(EX) WH-1	2
3	(EX) EH-2 - MECHANICAL ROOM 02	Heating	20 A	1			500	5288					4
5	(EX) EH-3 - ACCESSIBLE SHOWER ROOM 01	Heating	20 A	2	1000	5288			2	20 A	Heating	(EX) WH-2	6
7							0	0					8
9	(EX) EH-3 - SHOWER ROOM 04	Heating	20 A	2	0	0			1	20 A	Receptacle	(EX) RCPT - GENERAL	10
11							1000	0	1	20 A	Motor	MTR - EF-2	12
13	(EX) EH-4 - LAUNDRY	Heating	20 A	3	1667	44			1	20 A	Lighting	(EX) LTG - EXTERIOR	14
15							1667	1012	1	20 A	Motor	(EX) RCP-1	16
17					1667	0			1	20 A	--	(EX) RCPT - UNDER SINK	18
19	(EX) LTG - GENERAL & EF-1 01/04	Lighting	20 A	1			0	0	1	20 A	Receptacle	RCPT - WASHER	20
21	EH-6 - RESTROOM	Heating	20 A	2	0	0			2	30 A	Receptacle	RCPT - DRYER	22
23							2500	2500					24
				Total Load:	14323 VA		15906 VA						
				Total Amps:	120 A		133 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Heating	36150 VA	100.00%	36150 VA		
Lighting	239 VA	125.00%	299 VA	**Total Conn. Load:**	44423 VA
Motor	1252 VA	120.21%	1505 VA	**Total Est. Demand:**	44732 VA
Receptacle	6800 VA	100.00%	6800 VA	**Total Conn.:**	123 A
				Total Est. Demand:	124 A

Notes:



NOTES:
1. WIDTH: MINIMUM 6"
2. WHERE POSSIBLE PUSH CONDUIT UNDER SIDEWALKS AND DRIVES TO AVOID EXCAVATION.
3. CONTRACTOR MAY USE BORING MACHINE IN LIEU OF TRENCHING WHERE CONDITIONS PERMIT. EQUIPMENT AND CONDUIT SHALL BE PRE-APPROVED BY ARCHITECT/ENGINEER.
4. PROVIDE PRIMARY CONDUIT QUANTITY & SIZE(S) PER UTILITY REQUIREMENTS.

3 TRENCH DETAIL - SINGLE CONDUIT
N.T.S.

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suite 110b
missoula, montana
59808
phone: 406.540.4437

Morrison Maierle engineers · surveyors · planners · scientists

REST ROOM BUILDINGS FOR:
TEMPORARY SAFE OUTDOOR SPACE
1975 BROADWAY, MISSOULA MT 59808

PLAN REVIEW : 06.24.2025
BID SET: 07.11.2025

edinc Job #: 24.119

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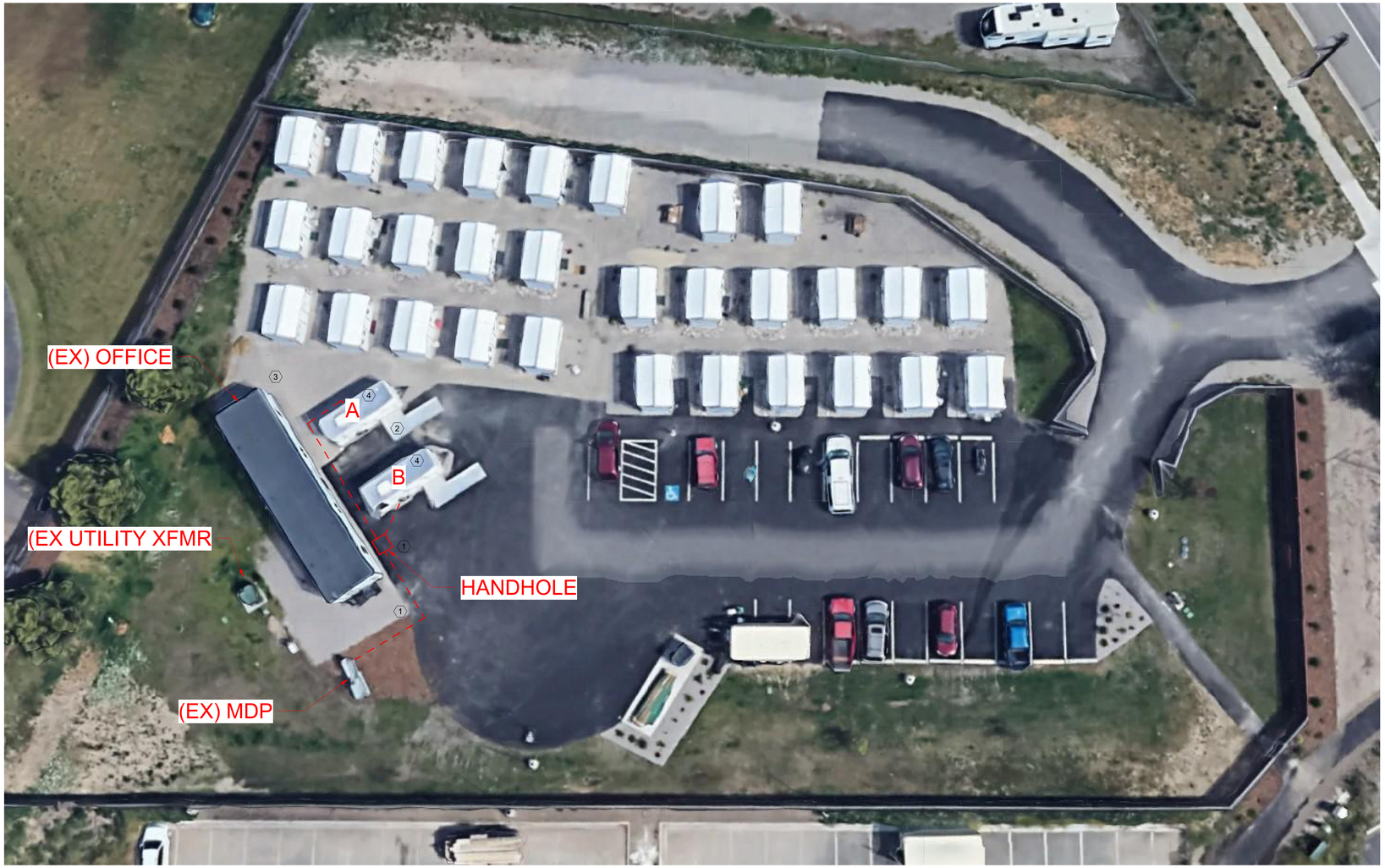
E0.2

Exhibit A



1 ELECTRICAL SITE PLAN (FOR REFERENCE ONLY)
N.T.S.

ELECTRICAL SITE PLAN GENERAL NOTES

A. IT IS ABSOLUTELY NECESSARY FOR ALL TRADES INVOLVED TO COORDINATE WITH EACH OTHER AND VERIFY THAT THERE ARE NO CONFLICTS IN LOCATION OF CONTRACTOR PLACED EQUIPMENT AND ITEMS THROUGHOUT THIS PROJECT BEFORE FINAL PLACEMENT OF MATERIALS.
B. PRIOR TO PROCEEDING WITH ANY WORK, REVIEW A FULL SET OF PLANS, WITH EMPHASIS ON CIVIL FOR LOCATIONS OF ALL UNDERGROUND UTILITIES AND SLEEVES.
C. LINES SHOWN ON THE PLAN FROM ELECTRICAL BASED DEVICES TO THE BUILDING REPRESENT THE PROPOSED ROUTING PATH FOR RACEWAYS. CONTRACTOR SHALL SELECT BEST PATH WHEN ROUTING FOR THE LEAST IMPACT ON SITE OR BUILDING.
D. EC SHALL BE RESPONSIBLE FOR ALL TRENCHING ASSOCIATED WITH ELECTRICAL WORK, WHETHER THE ACTUAL WORK IS ACCOMPLISHED BY THE EC, THE GENERAL CONTRACTOR (GC) OR OTHER CONTRACTORS. EC SHALL ENSURE COMPLIANCE WITH REQUIREMENTS NOTED IN SPECIFICATION SECTION 26 0533 FOR INSTALLATION OF UNDERGROUND CONDUIT.
E. PRIOR TO ANY TRENCHING, CONTACT 811 'CALL-BEFORE-YOU-DIG' AND COORDINATE WITH OWNER AND UTILITIES TO LOCATE ALL BURIED POWER, COMMUNICATIONS, GAS, WATER, SEWER, IRRIGATION PIPING, ETC. FROM THIS INFORMATION, ESTABLISH THE BEST ROUTING AND PLAN FOR AREAS THAT WILL REQUIRE HAND DIGGING.
F. UNLESS NOTED OTHERWISE, PROVIDE A CIRCUIT CONSISTING OF #10'S THROUGHOUT IN 1" PVC FOR ALL SITE BASED POWER CONSUMING DEVICES: LIGHTS, SIGNS, ETC.
G. ALL BUILDING EXTERIOR RECEPTACLES SHALL BE: GFI STYLE, TAMPERPROOF, WEATHER RESISTIVE CONSTRUCTION AND FEATURE A LOCKABLE, WEATHERPROOF-IN-USE COVER.
H. ALL ELECTRICAL RACEWAYS ROUTED ON SITE SHALL HAVE A MINIMUM OF 24" OF CLEAN, PROPERLY COMPACTED COVER.
I. EC IS RESPONSIBLE FOR ALL CUTTING OF SIDEWALKS, PAVEMENT, FLOORS, WALLS, CEILINGS, ROOFS, ETC. TO PERFORM THE REQUIRED WORK DEPICTED IN THESE DOCUMENTS. EC IS RESPONSIBLE FOR ALL PATCHING OF HOLES TO MATCH ADJACENT SURFACES AND TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.
J. INCLUDE GROUND WIRE WITH CIRCUITING TO ALL EXTERIOR DEVICES AND LIGHTS.
K. CAREFULLY CUT AND RETAIN SOD ALIVE FOR REINSTALLATION. SAW CUT, REMOVE AND DISPOSE OF CONCRETE AND ASPHALT.
L. INSTALL CONDUITS AS NOTED ON THE ONE LINE DIAGRAM AND/OR SHOWN ON PLANS.
M. WHERE SPARE CONDUITS ARE INDICATED, PROVIDE PULL STRING AND CAPS AT EACH END OF CONDUIT TO AVOID ENTRANCE OF MOISTURE OR VERMIN. MARK CONDUIT TERMINATION LOCATIONS WITH A 12" PIECE OF BURIED REBAR FOR FUTURE LOCATING PURPOSES AND CLEARLY MARK AS-BUILT, RED-LINE PLANS WITH DIMENSIONED LOCATIONS.
N. INSTALL MOLDED PLASTIC INTERMEDIATE (HORIZONTAL) SPACERS EVERY SIX FEET WHENEVER TWO OR MORE CONDUITS ARE INSTALLED IN A TRENCH. MAINTAIN A MINIMUM 3-INCH SEPARATION BETWEEN POWER CONDUITS. MAINTAIN A MINIMUM 12-INCH SEPARATION BETWEEN POWER AND COMMUNICATIONS CONDUITS. WHERE ELECTRICAL TRENCH IS SHARED WITH OTHER UTILITIES, A MINIMUM 24-INCH SEPARATION SHALL BE MAINTAINED FROM WATER, GAS OR SEWER LINES. ALL CONDUIT SEPARATIONS ARE MEASURED SURFACE-TO-SURFACE AND NOT CENTER-TO-CENTER.
O. IN ACCORDANCE WITH SPECIFICATION SECTION 260533, FILL TRENCH AND COMPACT TO MATCH ADJACENT UNDISTURBED SOIL. REPLACE SOD TO MATCH EXISTING. POUR CONCRETE AND REPLACE ASPHALT TO MATCH ADJACENT SURFACES.
P. EC SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO EXISTING BURIED POWER, COMMUNICATIONS, GAS, WATER, SEWER, IRRIGATION PIPING, ETC. AND SHALL HIRE TRAINED AND CERTIFIED CRAFTSMEN TO PERFORM THE REPAIRS AND BRING THEM BACK TO 'LIKE EXISTING CONDITIONS'. REPAIR WORK WILL NOT BE CONSIDERED COMPLETE UNTIL ALL SYSTEMS ARE ONCE AGAIN FUNCTIONING PROPERLY AND OWNER IS SATISFIED WITH THE REPAIRS.

(#) KEY NOTES:

1. ROUTE POWER FEEDS UNDERGROUND AROUND EXISTING OFFICE BUILDING. PROVIDE HANDHOLES AS REQUIRED TO PROPERLY PULL NEW CONDUCTORS.
2. APPROXIMATE LOCATION OF RELOCATED PANELS 'A' AND 'B'. EXISTING BUILDINGS ARE SHOWN AND ARE NOT THE NEW SHOWER/RESTROOM BUILDINGS.
3. EXISTING BURIED ELECTRICAL CONDUIT BANK IN THIS AREA. BANK IS APPROXIMATELY 2' WIDE. CONTRACTOR SHALL LOCATE AND MARK CONDUIT BANK IN THE AREA OF WORK PRIOR TO ANY TRENCHING.
4. REMOVE EXISTING POWER CONDUCTORS TO EXISTING BUILDING BACK TO IT'S SOURCE. CONTRACTOR MAY LEAVE EXISTING UNDERGROUND PATHWAYS IF SIZED ACCORDINGLY TO NEW ONE-LINE DIAGRAM.

MONTANA GARY STEVENS No. 14697PE LICENSED PROFESSIONAL ENGINEER

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engineers · surveyors · planners · scientists

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Exhibit A

1 POWER AND SIGNAL PLAN
1/2" = 1'-0"

POWER AND SIGNAL PLAN GENERAL NOTES

A. IT IS ABSOLUTELY NECESSARY FOR ALL TRADES INVOLVED TO COORDINATE WITH EACH OTHER AND VERIFY THAT THERE ARE NO CONFLICTS IN LOCATION OF DUCTS, CONDUITS, DIFFUSERS, BOXES, AND OTHER ITEMS THROUGHOUT THIS PROJECT BEFORE FINAL PLACEMENT OF MATERIALS.
B. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING OF FLOORS, WALLS, CEILINGS, AND ROOFS TO PERFORM THE REQUIRED WORK DEPICTED IN THESE DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PATCHING OF HOLES TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.
C. LOW VOLTAGE CABLES (LIGHTING CONTROLS) ABOVE ACCESSIBLE CEILINGS SHALL BE SUPPORTED USING J-HOOKS AT INTERVALS NOT TO EXCEED 48" OC, UNO.

(#) KEY NOTES:

1. REPLACE EXISTING FUSES WITH NEW 150A FUSES.
2. CONNECT NEW RECEPTACLE TO EXISTING CIRCUIT SHOWN. MODIFY AND EXTEND CONDUIT AND WIRING AS REQUIRED.
3. REPLACE (2) EXISTING SINGLE-POLE 20A BREAKERS WITH (1) 30A, 2-POLE BREAKER.
4. PROVIDE NEW DEVICES AND RE-CIRCUIT AS IN PREVIOUS LOCATION.
5. CONNECT NEW RECEPTACLE TO EXISTING RECEPTACLE CIRCUIT IN THIS AREA. MODIFY AND EXTEND WIRING AS REQUIRED.

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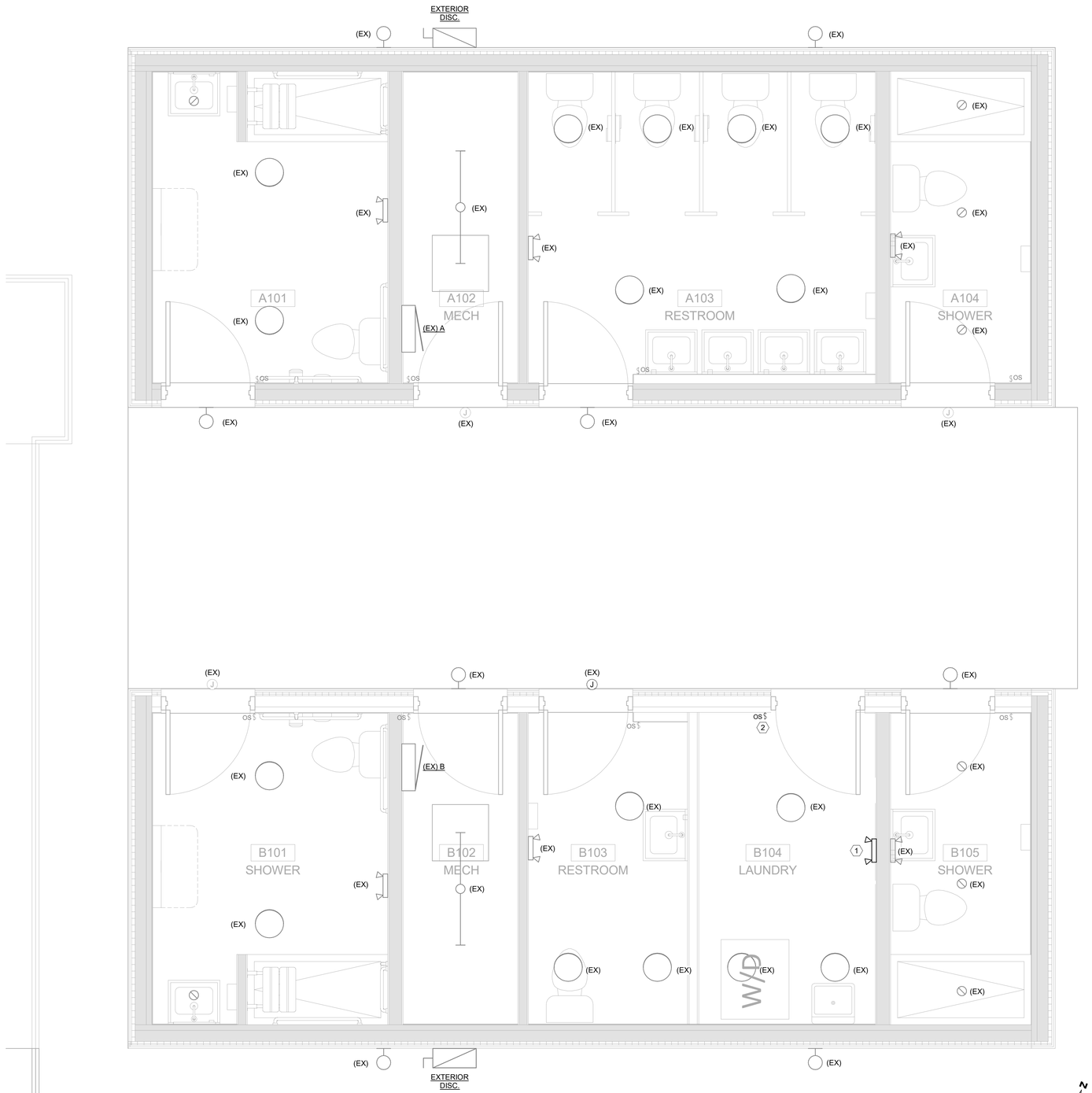
Exhibit A



1 LIGHTING PLAN
1/2" = 1'-0"

LIGHTING PLAN GENERAL NOTES

A. IT IS ABSOLUTELY NECESSARY FOR ALL TRADES INVOLVED TO COORDINATE WITH EACH OTHER AND VERIFY THAT THERE ARE NO CONFLICTS IN LOCATION OF DUCTS, CONDUITS, DIFFUSERS, BOXES, AND OTHER ITEMS THROUGHOUT THIS PROJECT BEFORE FINAL PLACEMENT OF MATERIALS.
B. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING OF FLOORS, WALLS, CEILINGS, AND ROOFS TO PERFORM THE REQUIRED WORK DEPICTED IN THESE DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PATCHING OF HOLES TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.
C. LOW VOLTAGE CABLES (LIGHTING CONTROLS) ABOVE ACCESSIBLE CEILINGS SHALL BE SUPPORTED USING J-HOOKS AT INTERVALS NOT TO EXCEED 48" OC, UNO.

KEY NOTES:

1. PROVIDE EMERGENCY FIXTURE AND TIE INTO EXISTING CIRCUIT IN ROOM.
2. PROVIDE OCCUPANCY SENSOR SWITCH FOR LIGHTS IN LAUNDRY ROOM.

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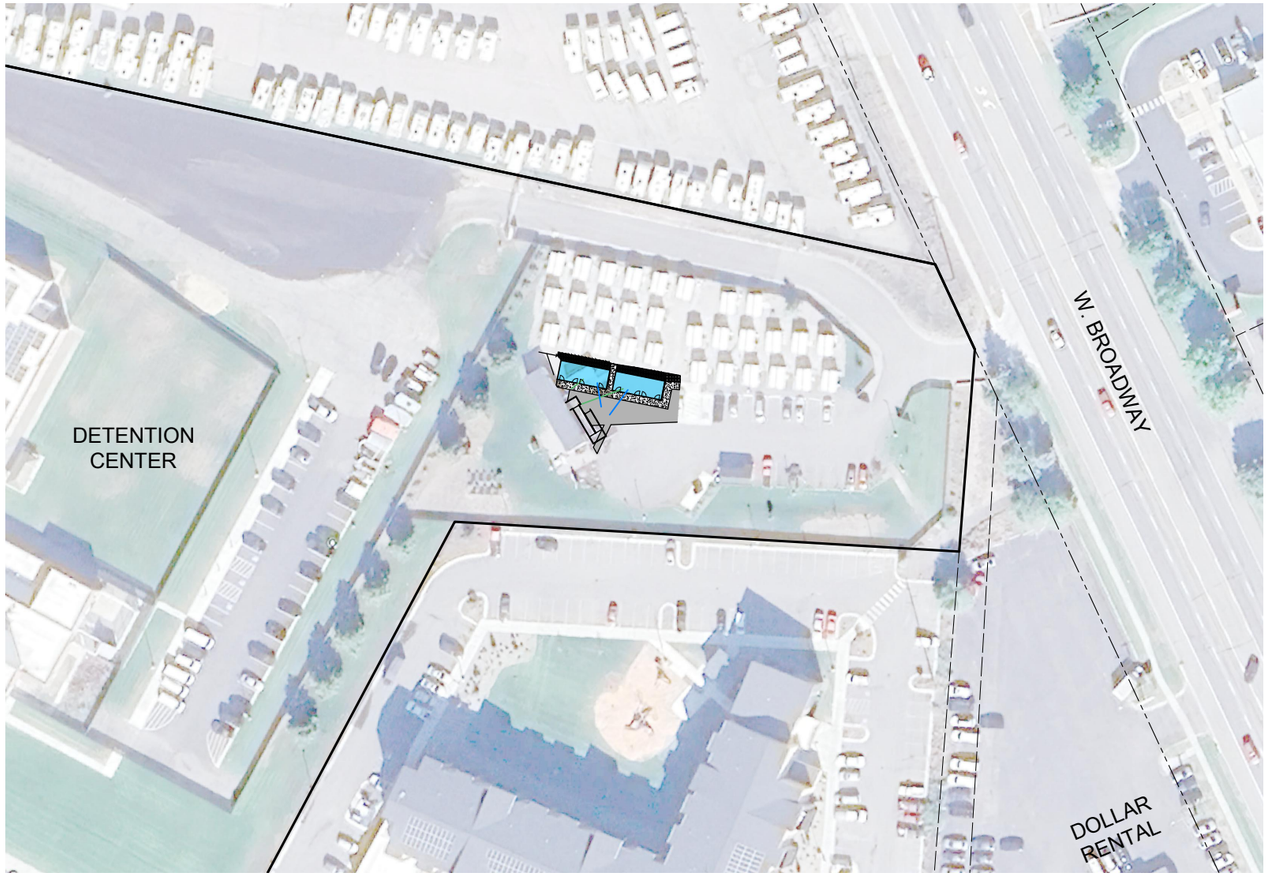
E0.5

Exhibit A

MISSOULA PALLET SHELTER
MISSOULA, MONTANA



PROJECT OVERVIEW

LEGEND-PROPOSED

- BUILDING
- 4" THICK CONCRETE SIDEWALK
- ASPHALT
- GRAVEL PATHWAY
- DRAINAGE GRAVEL
- SWALE
- WATER SERVICE
- SEWER SERVICE
- PERFORATED STORM DRAIN WITH OUTLET
- CONTOUR (1 FOOT INTERVAL)

LEGEND-EXISTING

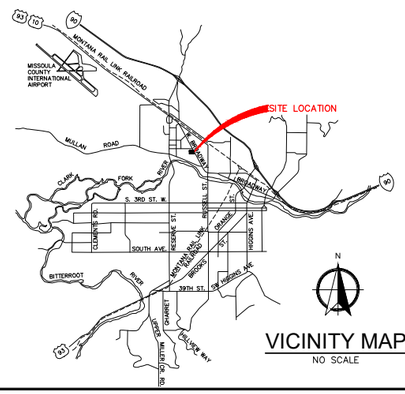
- SUBJECT PROPERTY BOUNDARY
- RIGHT-OF-WAY
- EASEMENT LINE
- LOT LINE
- EXTERIOR BUILDING WALL
- GRAVEL PATH
- 8" THICK CONCRETE SIDEWALK
- 6" THICK CONCRETE SIDEWALK
- CONCRETE SIDEWALK
- ASPHALT
- EDGE OF ASPHALT
- CURB AND GUTTER
- CURB AND GUTTER W/LAYDOWN
- COVE GUTTER
- PIN DOWN CURB
- EDGE OF GRAVEL
- WATER MAIN
- WATER SERVICE
- SANITARY SEWER MAIN
- SANITARY SEWER SERVICE
- STORM DRAIN LINE
- AERIAL POWER LINE
- BURIED ELECTRIC LINE
- BURIED TELEPHONE LINE
- GAS MAIN
- JOINT UTILITY TRENCH
- FENCE
- IRRIGATION DITCH
- SWALE
- CONTOUR (1 FOOT INTERVAL)
- FENCE
- MANUAL SWING GATE WITH LOCKING POSTS
- WATER VALVE
- FIRE HYDRANT
- WELL
- CURB BOX
- METER PIT
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- DRAINAGE SUMP
- UTILITY POLE
- GUY WIRE
- LIGHT POLE
- ELECTRICAL TRANSFORMER
- ELECTRIC PEDESTAL
- COMMUNICATIONS PEDESTAL
- IRRIGATION CONTROL VALVE
- GAS RISER
- GAS MAIN VALVE
- EVERGREEN TREE (SIZE AS NOTED)
- DECIDUOUS TREE (SIZE AS NOTED)
- SIGN
- ADA RAMP

SHEET INDEX

N

50 0 50 100

SCALE - FEET



VICINITY MAP

NO SCALE

811

Know what's **below.**
Call before you dig.

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

WGM GROUP, INC. ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL AND VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.

CIVIL DRAWINGS GENERAL NOTES:

1) ALL WORK SHALL CONFORM TO MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS, SEVENTH EDITION, APRIL 2021, AS AMENDED BY THE CITY OF MISSOULA.

2) CONTRACTOR SHALL FIELD VERIFY THE LOCATION, SIZE, AND DEPTH OF ALL UTILITIES INCLUDING ALL SERVICES TO ALL PROPERTIES. THESE DRAWINGS MAY NOT SHOW ALL FACILITIES. THE DEPTHS OF ALL EXISTING UTILITIES ARE UNKNOWN. BURIED UTILITIES SHOWN ON THIS SITE ARE BASED ON AVAILABLE RECORDS AND UTILITY LOCATOR PAINT MARKS. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.

2) CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM CITY OF MISSOULA, STATE OF MONTANA, AND UTILITY COMPANIES PRIOR TO STARTING WORK.

3) ALL CONCRETE AREAS ARE DESIGNED TO HAVE A 1.0% MAXIMUM CROSS SLOPE UNLESS OTHERWISE SHOWN ON THE PLANS.

4) ALL MATERIALS AND WORKMANSHIP OF IMPROVEMENTS SHALL MEET OR EXCEED ADA AS WELL AS STATE AND LOCAL REGULATIONS. WHERE THERE IS A CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARD, THE HIGHER QUALITY STANDARD SHALL APPLY.

5) CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO BIDDING THE PROJECT AND BEGINNING CONSTRUCTION.

6) CONTRACTOR RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL MEASURES, AND PROTECTING HAUL OFF/DRAG ON ONTO ADJACENT PARKING AREAS AND PUBLIC RIGHTS OF WAY. CONTRACTOR RESPONSIBLE FOR CLEANING ANY MATERIAL HAULED OFF/DRUG ONTO ADJACENT PARKING AREAS OR PUBLIC RIGHTS OF WAY.

7) CONTRACTOR RESPONSIBLE FOR LOCATING EXISTING IRRIGATION SYSTEM AND REPAIRING ANY CONTRACTOR DAMAGE TO SYSTEM.

8) GRADING AND SLOPE INFORMATION PRESENTED IN THIS PLAN SET IS BASED ON DESIGN GRADES AND BEST AVAILABLE MAPPING INFORMATION. EXISTING ELEVATIONS AT TIE IN POINT ELEVATIONS SHALL BE VERIFIED PRIOR TO INSTALLATION OF EXTERIOR IMPROVEMENTS. NOTIFY ENGINEER IF DIFFERENT CONDITIONS ARE FOUND. CONTRACTOR RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE AND ADA COMPLIANCE FOR CONSTRUCTED IMPROVEMENTS.

9) THIS PLAN IS TO BE USED TO ASSIST THE CONTRACTOR IN HORIZONTAL LOCATION DURING THE STAKING AND LAYOUT. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCY BETWEEN THE GIVEN DATA AND THE INTENT SHOWED BY THE DRAWINGS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION.

10) CONTRACTOR TO CONTACT MONTANA UTILITIES UNDERGROUND LOCATION CENTER (UULC) OR MONTANA 811 AT MONTANA811.ORG OR BY TELEPHONE AT 811 PRIOR TO ANY DIGGING OR EXCAVATION WORK, AS PER THE MONTANA DIG LAW.

11) CONTRACTOR TO COORDINATE WITH MONTANA DEPARTMENT OF TRANSPORTATION (MDT) AND CITY OF MISSOULA FOR GENERAL REQUIREMENTS AND TRAFFIC CONTROL REQUIREMENTS PRIOR TO BEGINNING ANY WORK WITHIN SOUTH RUSSELL STREET RIGHT-OF-WAY.

12) CONSTRUCTION MEANS AND METHODS FOR DIFFERENT PHASES OF CONSTRUCTION AND LOCATION OF STAGING AREAS ARE AT THE DISCRETION OF THE CONTRACTOR.

13) SWPPP ADMINISTRATOR TO UPDATE PLAN TO REFLECT CURRENTLY INSTALLED BMPS.

14) DAMAGED CONCRETE AREAS SHALL BE REPAIRED, CITY MANDATED SIDEWALK REPAIRS: REPAIR DAMAGED OR DETERIORATED CONCRETE SIDEWALK ALONG ALL ADA ROUTES BY INSTALLING ELASTOMERIC SEAL IN OPEN JOINTS OR GRINDING TRIP HAZARDS. CONTRACTOR TO COORDINATE IDENTIFICATION OF DAMAGED OR HAZARDOUS SIDEWALK WITH CITY ENGINEERING.

WGM GROUP
WWW.WGMGROUP.COM

PERMIT SET

MONTANA
KEVIN D. L. BILANT
59777 PE
LICENSED
PROFESSIONAL ENGINEER

COVER SHEET
PALLET SHELTER RENOVATIONS
MISSOULA, MONTANA

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT: 22-01-01
LAYOUT: C1.0
SURVEYED: WGM GROUP
DESIGN: KDLB
DRAFT: EDI
APPROVE: KDLB
DATE:

MAY 8, 2026

SHEET C1.0

FILE: W:\Projects\220101\CAD Data\Design\220101PH2--CV.dwg

Exhibit A

LEGEND-EXISTING

- SUBJECT PROPERTY BOUNDARY
- RIGHT-OF-WAY
- EASEMENT LINE
- LOT LINE
- EXTERIOR BUILDING WALL
- GRAVEL PATH
- 8" THICK CONCRETE SIDEWALK
- 6" THICK CONCRETE SIDEWALK
- CONCRETE SIDEWALK
- ASPHALT
- EDGE OF ASPHALT
- CURB AND GUTTER
- CURB AND GUTTER W/LAYDOWN
- COVE GUTTER
- PIN DOWN CURB
- EDGE OF GRAVEL
- W — WATER MAIN
- WS — WATER SERVICE
- S — SANITARY SEWER MAIN
- SS — SANITARY SEWER SERVICE
- SD — STORM DRAIN LINE
- AP — AERIAL POWER LINE
- BE — BURIED ELECTRIC LINE
- T — BURIED TELEPHONE LINE
- G — GAS MAIN
- JUT — JOINT UTILITY TRENCH
- X — FENCE
- IRRIGATION DITCH
- SWALE
- CONTOUR (1 FOOT INTERVAL)
- X — FENCE
- MANUAL SWING GATE WITH LOCKING POSTS
- W/V — WATER VALVE
- FIRE HYDRANT
- W — WELL
- CB — CURB BOX
- MM — METER PIT
- S — SANITARY SEWER MANHOLE
- CO — SANITARY SEWER CLEANOUT
- DRAINAGE SUMP
- UTILITY POLE
- GUY WIRE
- LIGHT POLE
- ELECTRICAL TRANSFORMER
- ELEC — ELECTRIC PEDESTAL
- TEL — COMMUNICATIONS PEDESTAL
- IRR — IRRIGATION CONTROL VALVE
- GM — GAS RISER
- GV — GAS MAIN VALVE
- EVERGREEN TREE (SIZE AS NOTED)
- DECIDUOUS TREE (SIZE AS NOTED)
- SIGN
- ADA RAMP

N

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SCALE - FEET

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MONTANA
KEVIN D. L. BILANT
59777 PE
LICENSED PROFESSIONAL ENGINEER

EXISTING CONDITIONS AND DEMOLITION PLAN
PALLET SHELTER RENOVATIONS
MISSOULA, MONTANA

REVISIONS:

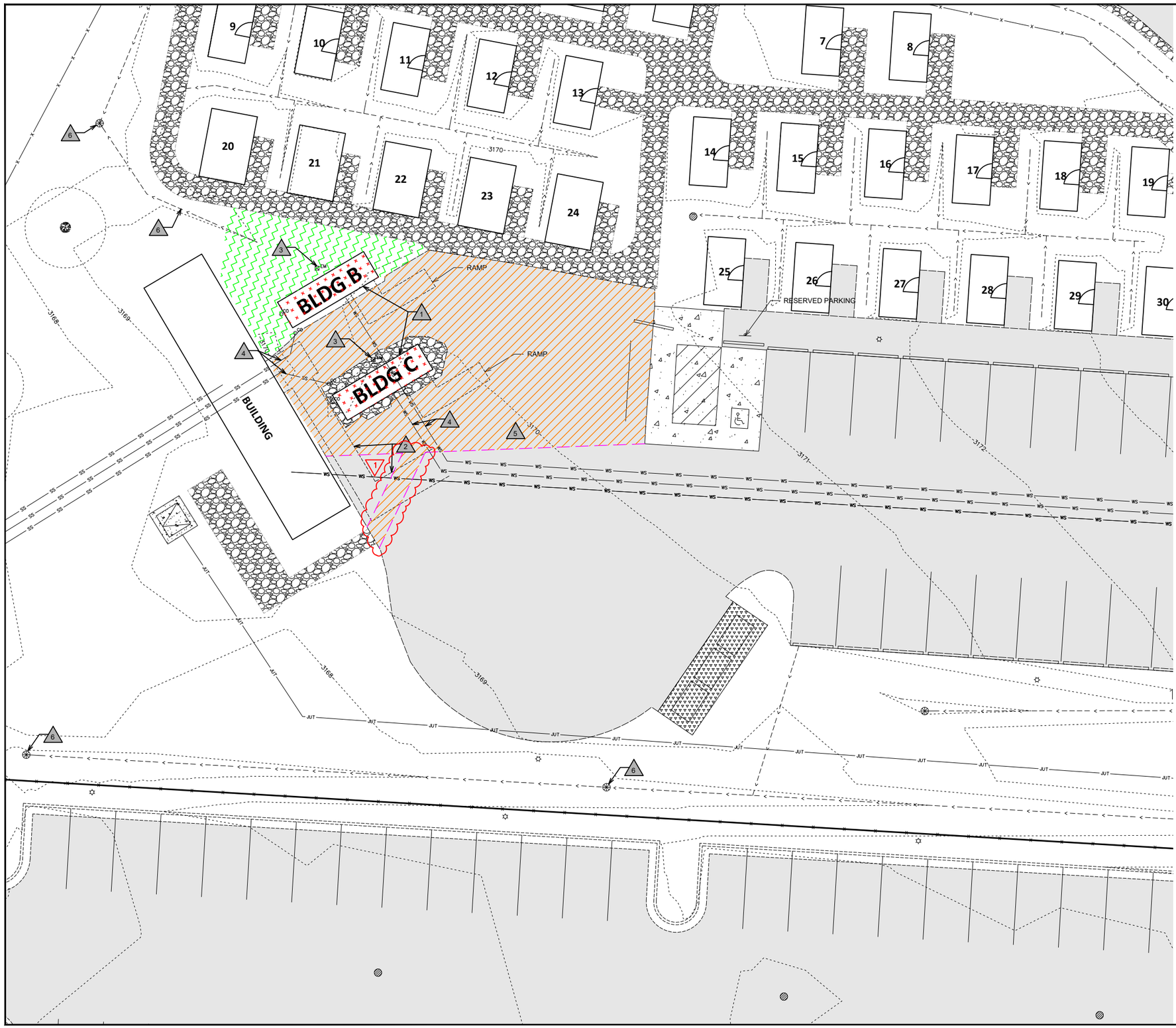
NO.	DESCRIPTION	DATE

PROJECT: 22-01-01
LAYOUT: C1.1
SURVEYED: WGM GROUP
DESIGN: KDLB
DRAFT: EDI
APPROVE: KDLB
DATE: MAY 8, 2026

SHEET C1.1

FILE: W:\Projects\220101\CAD Data\Design\220101PH2-DM.dwg

Exhibit A



LEGEND-DEMOLITION

- SAWCUT LIMIT
- ASPHALT REMOVAL AREA
- BUILDING REMOVAL
- LANDSCAPE REMOVAL AREA

DEMOLITION KEYED NOTES:

1. CONTRACTOR TO DEMO EXISTING TRAILER SKIRTING, RAMP, AND PERFORM ALL UTILITY DISCONNECT, ALONG WITH TRAILER HAUL OFF FROM THE SITE. COORDINATE WITH MISSOULA COUNTY ON OFF-SITE DELIVERY TO A STORAGE LOCATION IN MISSOULA.
2. COORDINATE WITH COUNTY PRIOR TO PERFORMING NECESSARY RAMP DEMO.
3. DEMO OR REMOVE ELECTRICAL METER. COORDINATE WITH COUNTY.
4. PROTECT EXISTING SEWER AND WATER LINES IN PLACE.
5. COORDINATE WITH MISSOULA COUNTY FOR SITE ACCESS AND TEMPORARY FACILITY BATHROOMS DURING CONSTRUCTION.
6. PROVIDE NECESSARY EROSION CONTROL BMPS AND INLET PROTECTION TO PREVENT SEDIMENT AND CONSTRUCTION DEBRIS FROM ENTERING EXISTING STORMWATER MANAGEMENT SYSTEM.

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SCALE - FEET

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DEMOLITION PLAN
PALLET SHELTER RENOVATIONS
MISSOULA, MONTANA

REVISIONS:

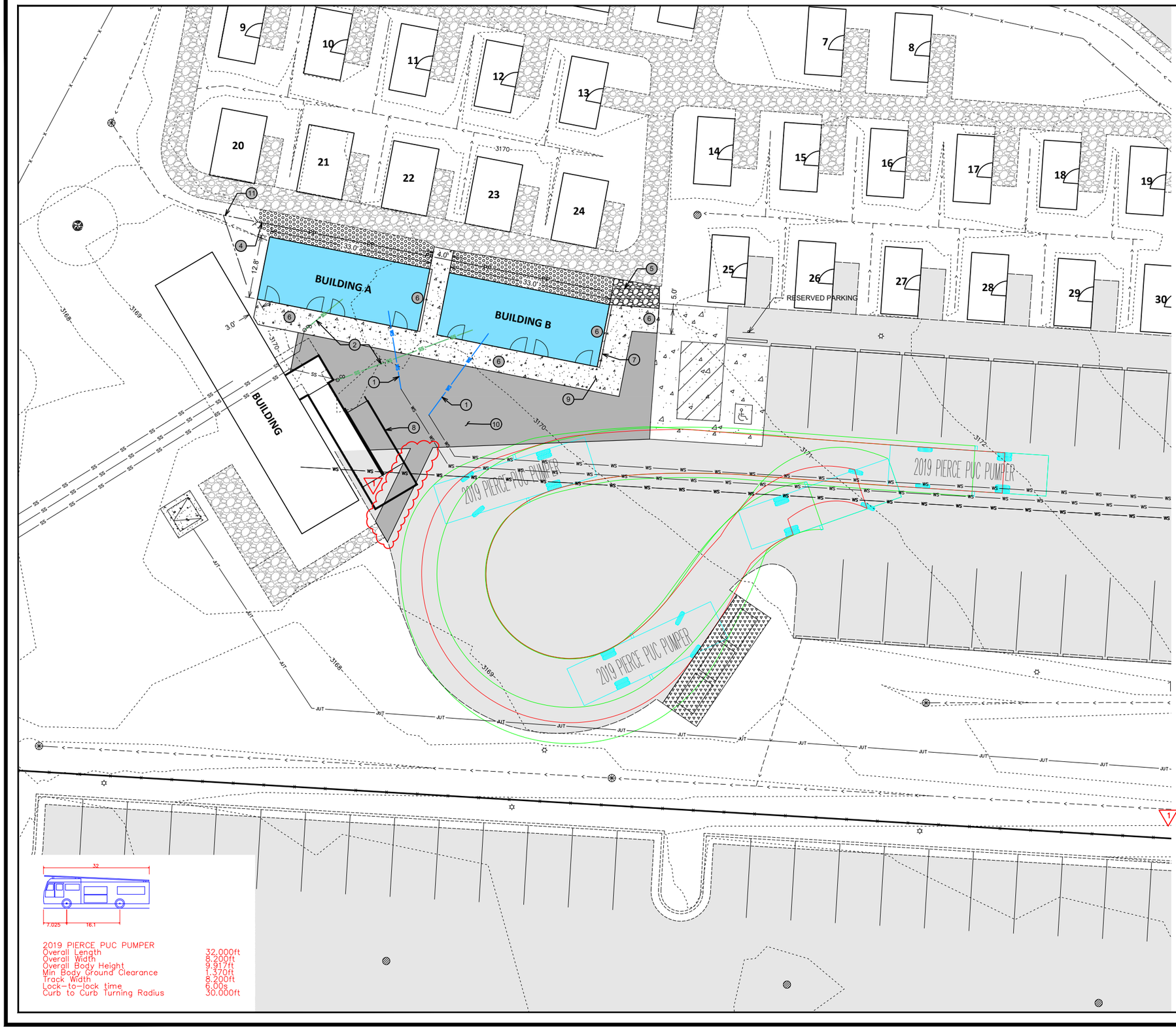
NO.	DESCRIPTION	DATE
1	REVISION 1	6/5/2026

PROJECT: 22-01-01
LAYOUT: C1.2
SURVEYED: WGM GROUP
DESIGN: KDLB
DRAFT: EDI
APPROVE: KDLB
DATE: MAY 8, 2026

SHEET C1.2

FILE: W:\Projects\220101\CAD Data\Design\220101PH2-DM.dwg

Exhibit A



2019 PIERCE PUC PUMPER	
Overall Length	32.000ft
Overall Width	8.200ft
Overall Body Height	9.917ft
Min Body Ground Clearance	1.370ft
Track Width	8.200ft
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	30.000ft

LEGEND-PROPOSED

- BUILDING
- 4" THICK CONCRETE SIDEWALK
- ASPHALT
- GRAVEL PATHWAY
- DRAINAGE GRAVEL
- SWALE
- WS — WATER SERVICE
- SS — SEWER SERVICE
- PP — PERFORATED STORM DRAIN WITH OUTLET
- CONTOUR (1 FOOT INTERVAL)

SITE PLAN KEYED NOTES:

1. REFER TO ARCHITECTURAL PLAN FOR NEW BATHROOM BUILDINGS
2. INSTALL 1.5" SIDR 7 WATER SERVICE. CONNECT TO EXISTING WATER SERVICE AND EXTEND TO NEW BATHROOM BUILDING. COORDINATE WITH ARCHITECTURAL PLANS FOR BUILDING CONNECTION DETAILS. CONTRACTOR TO PROVIDE ALL FITTINGS. ENSURE 6-FOOT MINIMUM BURY DEPTH OVER ENTIRE LENGTH OF PIPE. PROVIDE 2" OF 35 PSI COMPRESSIVE STRENGTH RIGID INSULATION FOR EVERY 1FT OF MISSING COVER. PIPE ROUTINGS TO BUILDINGS ARE SCHEMATIC. SEE ARCHITECTURAL FOR CONNECTION LOCATIONS.
3. INSTALL 6" SCH 40 PVC SEWER SERVICE AT 1.0% MINIMUM SLOPE. CONNECT TO EXISTING SEWER SERVICE AND EXTEND TO NEW BATHROOM BUILDING. COORDINATE WITH ARCHITECTURAL PLANS FOR BUILDING CONNECTION DETAILS. CONTRACTOR TO PROVIDE ALL FITTINGS. ENSURE 4-FOOT MINIMUM BURY DEPTH OVER ENTIRE LENGTH OF PIPE. PROVIDE 2" OF 35 PSI COMPRESSIVE STRENGTH RIGID INSULATION FOR EVERY 1FT OF MISSING COVER. PIPE ROUTINGS TO BUILDINGS ARE SCHEMATIC. SEE ARCHITECTURAL FOR CONNECTION LOCATIONS.
4. INSTALL 6" SCH 40 PVC PERF PIPE BELOW 1-1/2" WASHED DRAIN ROCK. REFER TO DETAIL X ON SHEET CX.X. PROVIDE 6" RODENT GUARD ON END OF PIPE.
5. PROVIDE 4" THICKNESS OF 3/4" CRUSHED BASE COURSE FOR GRAVEL PATHWAY. PLACE ON NATIVE GROUND OR ENGINEERED FILL COMPACTED TO 95%.
6. PROVIDE 1/2" EXPANSION JOINT WHERE NEW CONCRETE ABUTS EXISTING CONCRETE, BUILDING FOUNDATIONS, OR OTHER RIGID STATIONARY OBJECTS.
7. SEE GRADING PLAN FOR ROLLED CURB SECTION ADJACENT TO BUILDING.
8. REFER TO ARCHITECTURAL PLANS FOR BUILDING A ACCESSIBLE RAMP RECONFIGURATION.
9. INSTALL 542 SF OF 4" THICKNESS CONCRETE SIDEWALK PER TYPICAL SIDEWALK SECTION SHOWN ON DETAIL 3 ON SHEET C4.0 PROVIDE THICKENED EDGE WHERE CONCRETE INTERFACES WITH PROPOSED ASPHALT.
10. INSTALL 124 SY OF ASPHALT PER TYPICAL ASPHALT SECTION . ENSURE FULL DEPTH SECTION IS PROVIDED.
11. SEE GRADING PLAN FOR ELEVATION, SLOPE, AND SWALE GRADING INFORMATION.

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SCALE - FEET

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LICENSED PROFESSIONAL ENGINEER

SITE PLAN
PALLET SHELTER RENOVATIONS
MISSOULA, MONTANA

REVISIONS:

NO.	DESCRIPTION	DATE
1	REVISION 1	6/5/2026

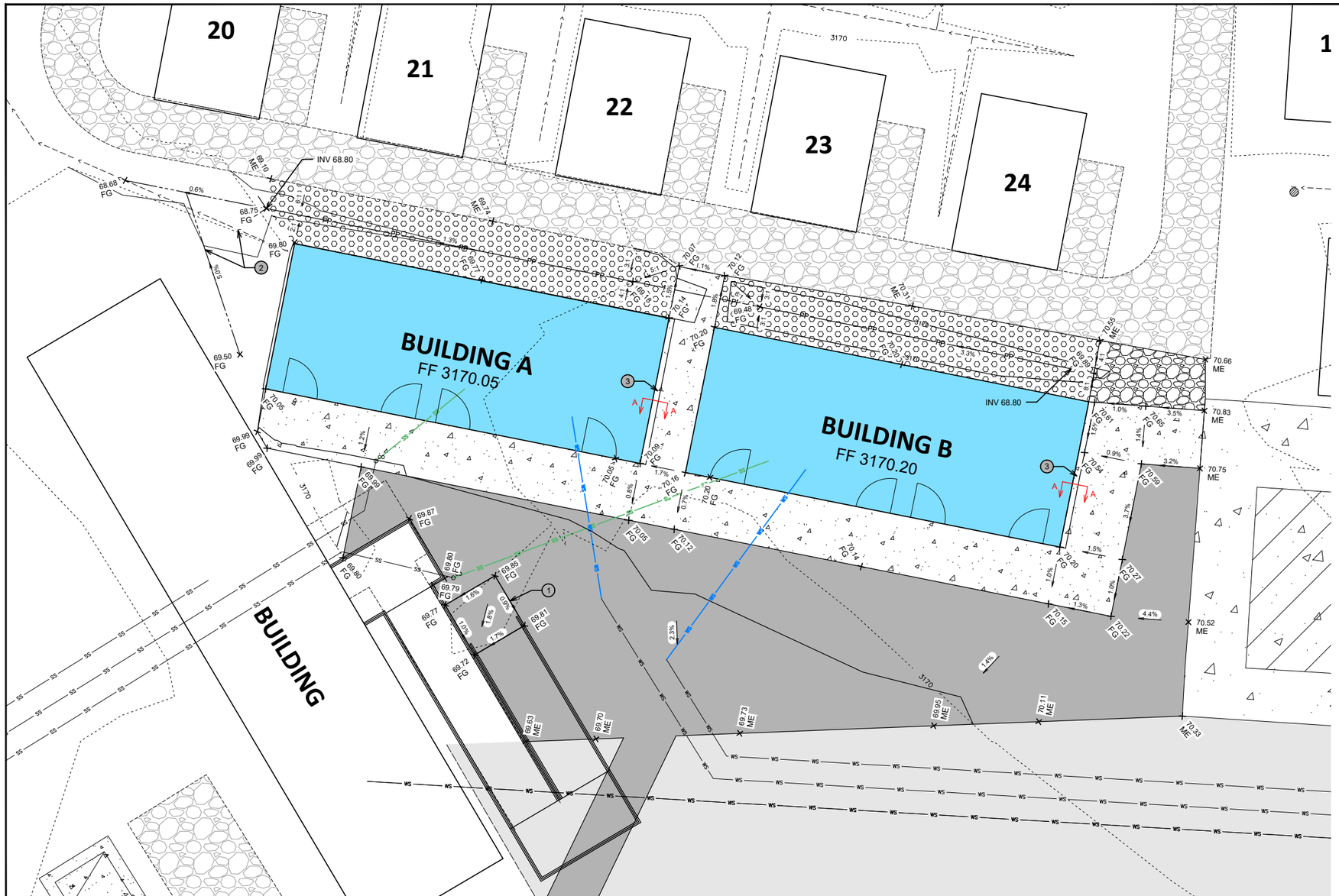
PROJECT: 22-01-01
LAYOUT: C2.0
SURVEYED: WGM GROUP
DESIGN: KDLB
DRAFT: EDI
APPROVE: KDLB
DATE:

MAY 8, 2026

SHEET C2.0

FILE: W:\Projects\220101\CAD Data\Design\220101PH2-SP.dwg

Exhibit A

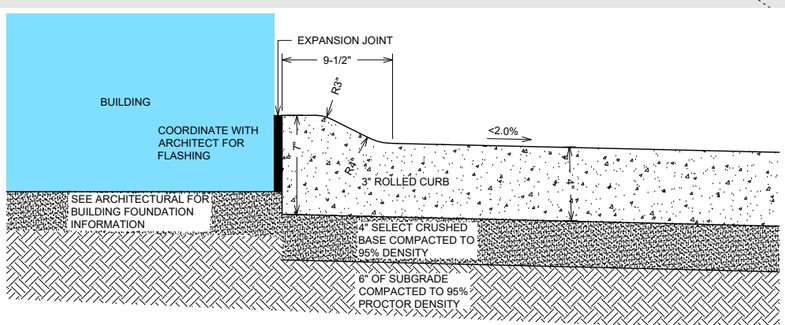


LEGEND-GRADING

X 72.50	PROPOSED FINISH GRADE (+3100')
1.4% →	PROPOSED SLOPE
ME	MATCH EXISTING
FG	FINISH GRADE
FF	FINISH FLOOR

KEYED NOTES:

1. PROVIDE 5.0'X5.0' LEVEL LANDING (LESS THAN 2.0% ALL DIRECTIONS) AT BOTTOM OF RECONFIGURED RAMP FOR BUILDING A. REFER TO ARCHITECTURAL PLANS FOR RAMP RECONFIGURATION PRIOR TO PAVING AND ENSURE LANDINGS IS PLACED AND LEVEL PRIOR TO RAMP CONSTRUCTION.
2. REGRADE AREA AND GRADE IN SWALE TO ENSURE POSITIVE DRAINAGE TO EXISTING DRAINAGE SUMP.
3. ROLL CURB PER SECTION A-A AS DEPICTED. WHERE ADJACENT SIDEWALK WALKING SURFACE IS HIGHER THAN FINISHED FLOOR COORDINATE WITH ARCHITECT FOR WATERPROOF FLASHING.



SECTION A-A
NOT TO SCALE

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SCALE - FEET

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GRADING PLAN
PALLET SHELTER RENOVATIONS
MISSOULA, MONTANA

REVISIONS:

NO.	DESCRIPTION	DATE

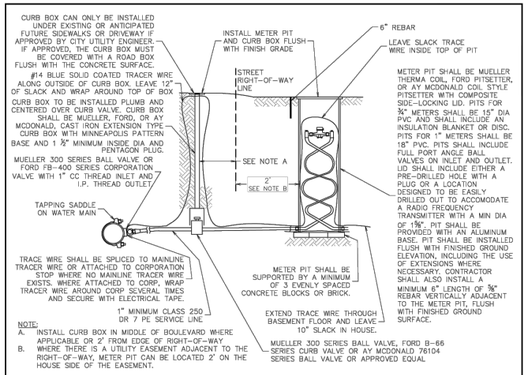
PROJECT: 22-01-01
LAYOUT: C3.0
SURVEYED: WGM GROUP
DESIGN: KDLB
DRAFT: EDI
APPROVE: KDLB
DATE:

MAY 8, 2026

SHEET C3.0

FILE: W:\Projects\220101\CAD Data\Design\220101PH2 - GP.dwg

Exhibit A



NOTE:
A. INSTALL CURB BOX IN MIDDLE OF BOULEVARD WHERE APPLICABLE OR 2' FROM EDGE OF RIGHT-OF-WAY
B. WHERE THERE IS A UTILITY EASEMENT ADJACENT TO THE RIGHT-OF-WAY, METER PIT CAN BE LOCATED 2' ON THE HOUSE SIDE OF THE EASEMENT.

GENERAL NOTES:

1. CONSTRUCTION MATERIALS AND PROCEDURES SHALL COMPLY WITH MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS (MPWSS), 7TH EDITION, APRIL 2021, AS MODIFIED BY THE CITY OF MISSOULA STANDARDS AND SPECIFICATIONS MANUAL, APPENDIX 2-A (STANDARD MODIFICATIONS TO MPWSS), CURRENT EDITION.
2. WATER SERVICES SHALL BE BURIED A MINIMUM OF 6' DEEP.
3. THIS DETAIL APPROPRIATE FOR 3/4" OR 1" METERS. CONTRACT CITY UTILITY ENGINEER FOR RESIDENTIAL METERS LARGER THAN 1". IRRIGATION METERS LARGER THAN 1" MUST BE INSTALLED IN A CONCRETE PIT PER STD-412 OR OTHER APPROVED DRAWING.
4. PLASTIC METER PITS ARE NOT TRAFFIC RATED. METER PITS ARE NOT ALLOWED IN SIDEWALKS OR IN A TRAFFIC AREA UNLESS APPROVED BY THE CITY UTILITY ENGINEER. IF APPROVED BY THE CITY UTILITY ENGINEER. INSTALLATION SHALL HAVE A FLUSH MOUNTED, TRAFFIC RATED CASTING INSTALLED OVER THE PIT. THE CASTING DIA SHALL BE AT LEAST 3" LARGER THAN THE METER PIT. THE METER TRANSMITTER SHALL BE INSTALLED ON THE BUILDING WALL WITH A 1/2" CONDUIT BETWEEN THE PIT AND THE WALL.
5. NO OBSTRUCTIONS SHALL BE PLACED WITHIN A MIN 4' RADIUS AROUND THE METER PIT TO ENSURE ACCESS TO THE PIT.
6. NO PRV'S, CHECK VALVES, OR BACKFLOW DEVICES ALLOWED IN METER PIT.
7. THIS DIAGRAM IS NOT PROJECT SPECIFIC AND IS NOT INTENDED TO BE A DESIGN DRAWING. THE OWNER IS RESPONSIBLE TO COMPLY WITH ALL APPLICABLE BUILDING CODES. THIS DETAIL MAY CHANGE AT ANY TIME AND IT IS THE OWNER'S RESPONSIBILITY TO OBTAIN THE MOST CURRENT VERSION OF THIS AND OTHER CITY REQUIREMENTS.
8. IF PROPERTY DOES NOT FRONT A STREET WITH A WATER MAIN, CONTACT CITY FOR SPECIFIC REQUIREMENTS RELATED TO EASEMENTS AND METER PIT LOCATIONS.
9. WHERE NEW WATER SERVICE LINE TRANSITIONS TO EXISTING GALVANIZED SERVICE LINE, THE NEW TRACER WIRE SHOULD BE ATTACHED TO THE GALVANIZED PIPE USING A CHRISTY'S OR APPROVED EQUAL UL APPROVED BRONZE GROUNDING CLAMP SUITABLE FOR DIRECT BURIAL.
10. IF METER PIT IS INSTALLED TOO LOW THE CONTRACTOR/DEVELOPER SHALL BE RESPONSIBLE FOR THE PURCHASE AND INSTALLATION OF A METER RESETTER TO BRING TO FINISHED GRADE.

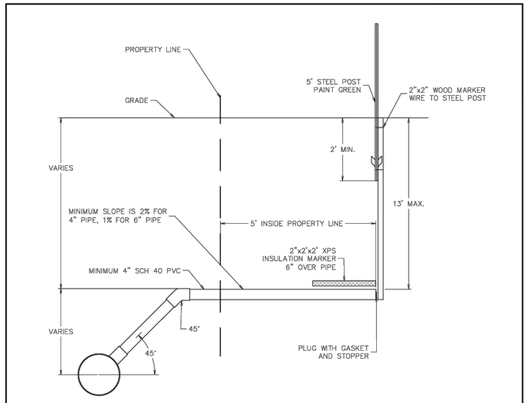
MISSOULA Engineering Division

Typical Residential Water Service Detail — COMSSM-2026

Approved By Utilities Engineer Logan McInnis, PE
Adopted: 09/28/2020
Revised: 10/29/2025

STD - 404A

1 C4.0



GENERAL NOTES:

1. CONSTRUCTION MATERIALS AND PROCEDURES SHALL COMPLY WITH MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS (MPWSS), 7TH EDITION, APRIL 2021, AS MODIFIED BY THE CITY OF MISSOULA STANDARDS AND SPECIFICATIONS MANUAL, APPENDIX 2-A (STANDARD MODIFICATIONS TO MPWSS), CURRENT EDITION.
2. MAXIMUM LINE DEPTH IS 13'. DEVIATIONS MAY BE ALLOWED BY CITY ENGINEERING.
3. CONNECTIONS TO EXISTING SEWER MAINS SHALL BE TAPPED AT THE CONTRACTORS EXPENSE, AND PREDCO FAST FIT SADDLES OR APPROVED EQUAL SHALL BE USED. WHEN THE SEWER MAIN AND SEWER SERVICE LATERALS ARE INSTALLED UNDER ONE CONTRACT, IN-LINE TEES ONLY SHALL SHALL BE PROVIDED FOR THE SERVICE LATERALS. TEES SHALL BE ROLLED TO A 45 DEGREE ANGLE.
4. AN EXCAVATION PERMIT IS REQUIRED FOR EACH STUB.
5. SEWER SERVICE STUBS SHALL BE INSTALLED WHERE SHOWN ON THE DRAWINGS OR AS SPECIFIED BY CITY ENGINEERING.
6. IN ORDER TO KEEP SERVICE LINES DEEP ENOUGH TO SERVE EACH HOME AND PASS UNDER WATER MAINS, A 22 DEGREE FITTING MAY BE ALLOWED BY THE CITY ENGINEER AT THE SEWER MAIN TAP.
7. ALL COMMERCIAL SERVICE STUBS SHALL BE 6" MINIMUM DIAMETER.
8. ALL SINGLE DWELLING UNIT SERVICE STUBS SHALL BE 4" MINIMUM DIAMETER.

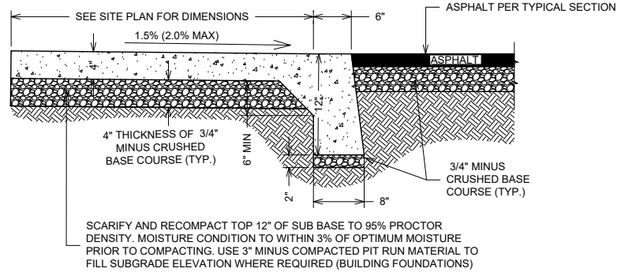
MISSOULA Engineering Division

Standard Sewer Service Stub — COMSSM-2026

Approved By Utility Project Manager Ross Mollenhauer, PE
Revised: 10/31/2025

STD - 520

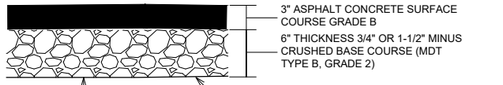
2 C4.0



SCARIFY AND RECOMPACT TOP 12" OF SUB BASE TO 95% PROCTOR DENSITY. MOISTURE CONDITION TO WITHIN 3% OF OPTIMUM MOISTURE PRIOR TO COMPACTING. USE 3" MINUS COMPACTED PIT RUN MATERIAL TO FILL SUBGRADE ELEVATION WHERE REQUIRED (BUILDING FOUNDATIONS)

PROOF ROLL ALL SUBGRADE IN PRESENCE OF PROJECT REPRESENTATIVE PRIOR TO PLACING GEOTEXTILE.

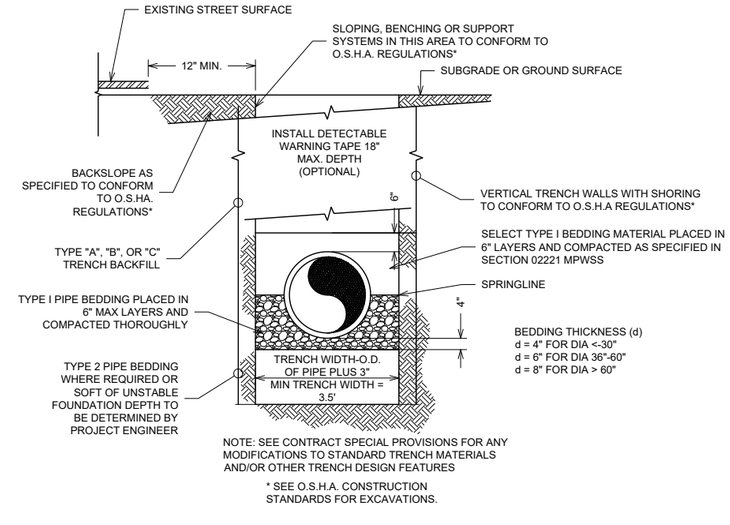
3 C4.0 TYPICAL SIDEWALK SECTION
NOT TO SCALE



SCARIFY AND RECOMPACT TOP 12" OF SUB BASE TO 95% PROCTOR DENSITY. MOISTURE CONDITION TO WITHIN 3% OF OPTIMUM MOISTURE PRIOR TO COMPACTING. USE 3" MINUS COMPACTED PIT RUN MATERIAL TO FILL SUBGRADE ELEVATION WHERE REQUIRED (BUILDING FOUNDATIONS)

PROOF ROLL ALL SUBGRADE IN PRESENCE OF PROJECT REPRESENTATIVE PRIOR TO PLACING GEOTEXTILE.

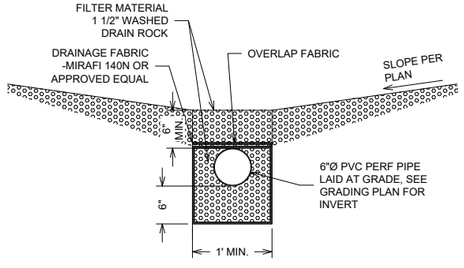
4 C4.0 TYPICAL ASPHALT SECTION
NOT TO SCALE



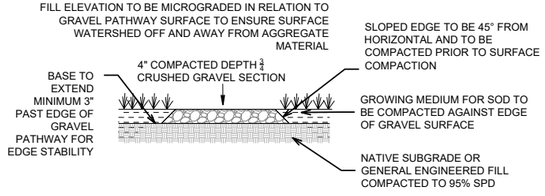
NOTE: SEE CONTRACT SPECIAL PROVISIONS FOR ANY MODIFICATIONS TO STANDARD TRENCH MATERIALS AND/OR OTHER TRENCH DESIGN FEATURES

* SEE O.S.H.A. CONSTRUCTION STANDARDS FOR EXCAVATIONS.

5 C4.0 STANDARD PIPE EMBEDMENT
NOT TO SCALE



6 C4.0 SUBDRAIN TRENCH DETAIL
NO SCALE



7 C4.0 GRAVEL PEDESTRIAN PATHWAY SECTION
NOT TO SCALE

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MONTANA
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59777 PE
LICENSED PROFESSIONAL ENGINEER

DETAILS

PALLET SHELTER RENOVATIONS
MISSOULA, MONTANA

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT: 22-01-01
LAYOUT: C4.0
SURVEYED: WGM GROUP
DESIGN: KDLB
DRAFT: EDI
APPROVE: KDLB
DATE:

MAY 8, 2026

SHEET C4.0

FILE: W:\Projects\220101\CAD Data\Design\220101PH2-DT.dwg