WTP BUILDING IMPROVEMENTS 2026

BID AND PERMIT SET

CLACKAMAS RIVER WATER
9100 SE MANGAN DR., CLACKAMAS, OR 97015

Tax Lot Information (22E16A, LOT 200)

PROJECT NOTES

1. **FIELD VERIFICATION**: ALL EXISTING CONDITIONS MUST BE FIELD-VERIFIED. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES WITH THE DRAWINGS OR SPECIFICATIONS TO THE PROJECT TEAM.
2. **CONSTRUCTION RESPONSIBILITY**: THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION METHODS, TECHNIQUES, SEQUENCING, SAFETY MEASURES, AND DEMOLITION ACTIVITIES.
3. **INSPECTION**: BEFORE STARTING WORK, THE CONTRACTOR MUST INSPECT PRIOR WORK TO ENSURE IT IS PROPERLY ALIGNED AND LEVEL, ALLOWING SEAMLESS INTEGRATION WITH ADJACENT WORK.
4. **CODE COMPLIANCE**: THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL MATERIALS AND WORKMANSHIP COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
5. **DOCUMENT VERIFICATION**: THE CONTRACTOR MUST VERIFY THE ACCURACY OF ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, AND DIMENSIONS BEFORE PROCEEDING. ANY QUESTIONS MUST BE CLARIFIED WITH THE PROJECT TEAM PRIOR TO THE COMMENCEMENT OF WORK.
6. **DIMENSIONS**: DRAWINGS SHALL NOT BE SCALED. IF DIMENSIONS ARE MISSING OR UNCLEAR, THE CONTRACTOR MUST SEEK CLARIFICATION FROM THE PROJECT TEAM BEFORE PROCEEDING.
7. **PROTECTION & REPAIR**: THE CONTRACTOR MUST PROTECT, PATCH, AND REPAIR ANY SURFACES DISTURBED DURING THE INSTALLATION OF MECHANICAL, ELECTRICAL, PLUMBING, OR OTHER WORK, ENSURING THEY MATCH EXISTING FINISHES.
8. **CUTTING & PATCHING**: THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, PATCHING, AND DEMOLITION NECESSARY FOR MATERIAL AND EQUIPMENT INSTALLATION, INCLUDING RELATED REPAIRS.
9. **UNFORESEEN CONDITIONS**: IF UNFORESEEN CONDITIONS ARE ENCOUNTERED, THE CONTRACTOR MUST NOTIFY THE PROJECT TEAM AND RESOLVE THE ISSUE BEFORE CONTINUING WORK.
10. **PERMITS**: THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PROJECT-RELATED PERMITS, UNLESS OTHERWISE AGREED UPON.
11. **JOB SITE SAFETY**: THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING JOB SITE SAFETY, INCLUDING THE PROTECTION OF PERSONNEL AND PROPERTY, IN COMPLIANCE WITH OSHA STANDARDS.
12. **DESIGN-BUILD COORDINATION**: FOR DESIGN-BUILD ELEMENTS, THE CONTRACTOR IS RESPONSIBLE FOR DESIGN, PERMITS, AND COORDINATION WITH SUBCONTRACTORS. ALL DESIGN-BUILD ELEMENTS MUST BE COORDINATED WITH THE ARCHITECT/ENGINEER OF RECORD BEFORE FIELDWORK IS COMPLETED.
13. **BUILDING OPERATIONS**: THE CONTRACTOR MUST AVOID DISRUPTING THE BUILDING'S NORMAL OPERATIONS AND FOLLOW RULES FOR SCHEDULING AND USING ELEVATORS, LOADING DOCKS, AND OTHER FACILITIES.
14. **ABATEMENT**: AN ABATEMENT REPORT PERFORMED BY "XXX," DATED "XXX," IS AVAILABLE FOR CONTRACTOR REVIEW BEFORE DEMOLITION BEGINS.

ABBREVIATIONS

AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ACT	ACOUSTIC CEILING TILE
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALM	ALUMINUM
ARCH	ARCHITECT
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BO	BOTTOM OF
BD	BOARD
BIT	BITUMINOUS
BTM	BOTTOM
BTWN	BETWEEN
BOD	BASIS OF DESIGN
CG	CORNER GUARD
CI	CONTINUOUS INSULATION
CJP	COMPLETE JOINT PENETRATION
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CARBON MONOXIDE
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRIDOR
CPT	CARPET
DBL	DOUBLE
DEMO	DEMOLISH
DF	DRINKING FOUNTAIN
DIA, ⌀	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DWGS	DRAWINGS
EA	EACH
(E)	EXISTING
ELEC	ELECTRICAL
EQ	EQUAL
EW	EACH WAY
ETR	EXISTING TO REMAIN
EXT	EXTERIOR
FA	FIRE ALARM
FD	FLOOR DRAIN
FND	FOUNDATION
FOF	FACE OF FINISH
FOS	FACE OF STUDS
FRT	PRESSURE-TREATED FIRE RETARDANT
FSD	FIRE SEPARATION DISTANCE
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GL	GRID LINE
GLB	GLULAM BEAM
GLC	GLULAM COLUMN
GB	GRAB BAR
GND	GROUND
GSM	GALVANIZED SHEET METAL
GYP	GYPSUM
GWB	GYPSUM WALL BOARD
HB	HOSE BIBB
HC	HOLLOW CORE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPC	HIGH PERFORMANCE COATING
HSS	HOLLOW STRUCTURAL STEEL
IBC	INTERNATIONAL BUILDING CODE
IN	INCH
INT	INTERIOR
LAM	LAMINATE
LB	POUND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LONG	LONGITUDINAL
LP	LOW POINT
LVL	LAMINATED VENEER LUMBER
LWR	LOWER
MAX	MAXIMUM
MBMA	METAL BUILDING MANUFACTURERS ASSOCIATION
ME	MATCH EXISTING
MEPT	MECHANICAL, ELECTRICAL, PLUMBING, TECHNOLOGY
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
(N)	NEW
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OPPOSITE HAND
OHD	OVERHEAD DOOR
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
OWSJ	OPEN WEB STEEL JOIST
OWWJ	OPEN WEB WOOD JOIST
OVHD	OVERHEAD
PVC	PRECAST (CONCRETE)
PL	PLATE
PLAM	PLASTIC LAMINATE
PLY	PLYWOOD
PJP	PARTIAL JOINT PENETRATION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P/T	POST-TENSIONED
PT	PRESSURE TREATED
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCING
REQ'D	REQUIRED
RO	ROUGH OPENING
SAM	SELF-ADHERED MEMBRANE
SAMF	SELF-ADHERED MEMBRANE FLASHING
SC	SOLID CORE
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SCHED	SCHEDULE
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSMA	STEEL STUD MANUFACTURERS ASSOCIATION
STD	STANDARD
STRUCT	STRUCTURAL
SYM	SYMMETRICAL
TECH	TECHNOLOGY
THRU	THROUGH
T&G	TONGUE AND GROOVE
TRANS	TRANSVERSE
TO	TOP OF
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UPR	UPPER
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WF	WIDE FLANGE
WWF	WELDED WIRE FABRIC

EXTERIOR RENDERING



PROJECT TEAM

OWNER:
CLACKAMAS RIVER WATER
CONTACT: *JASON BRANSTETTER, CHIEF ENGINEER*
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CLACKAMAS, OR 97015
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ZCS, INC.
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STRUCTURAL ENGINEERING:
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STAMPING REGISTRANT: *MATTHEW R. SMITH, PE, SE*
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T 503.659.2205

MECHANICAL:
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PORTLAND, OR 97204
T 503.382.2742

PLUMBING:
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ELECTRICAL:
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STAMPING REGISTRANT: *MARK O'LEARY, PE*
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ICT TECHNOLOGY:
CONTACT: *TODD SCHENBECK*
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FIRE PROTECTION:
CONTACT: *KAYLA AHNEM*
INTERFACE ENGINEERING
100 SW MAIN ST., SUITE 1600
PORTLAND, OR 97204
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DEFERRED SUBMITTALS

ZCS SHALL PERFORM GENERAL REVIEW OF ANY DEFERRED SUBMITTAL DESIGNS PRIOR TO SUBMITTING TO THE AHJ AND PRIOR TO CONSTRUCTION IMPLEMENTATION FOR GENERAL CONFORMANCE TO THE DESIGN INTENT. DEFERRED SUBMITTAL ITEMS SHALL NOT BE SPECIALLY FABRICATED OR INSTALLED UNTIL REVIEWED BY THE AHJ AND ZCS.

1. FIRE ALARM
2. PREMANUFACTURED AWNINGS

PROJECT NARRATIVE

PROJECT SCOPE:

THIS PROJECT CONSISTS OF THE REPAIR AND RENOVATION OF THE PRIMARY OCCUPIED SPACES WITHIN CLACKAMAS RIVER WATER DISTRICT'S CONTROL (WTP) BUILDING. THE WORK INCLUDES REPAIRS TO THE FAILING BUILDING ENVELOPE WHICH HAVE RESULTED IN SIGNIFICANT WATER INTRUSION AND ASSOCIATED BUILDING DAMAGE. THE WORK ALSO INCLUDES A REMODEL TO RECONFIGURE INTERIOR SPACES TO BETTER SUPPORT OPERATIONAL AND ACCESSIBILITY NEEDS.

THE PROJECT IS LIMITED IN SCOPE TO RENOVATION AND REPAIR ACTIVITIES. MODIFICATIONS TO THE BUILDING'S PRIMARY OR SECONDARY STRUCTURAL SYSTEMS ARE NOT ANTICIPATED AS PART OF THIS PROJECT.

UNDER SEPARATE CONTRACT

CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER'S VENDORS AND PROVIDE ALL NECESSARY ACCOMMODATIONS AND SCOPES OF WORK FOR THEIR INSTALLATIONS AND OPERATION. THE FOLLOWING SYSTEMS WILL BE PROVIDED BY THE OWNER UNDER SEPARATE CONTRACT:

ELECTRICAL: STONER ELECTRIC

SCADA: STONER ELECTRIC

FIRE ALARM: FIRST RESPONSE

SECURITY AND ACCESS CONTROL: POINT MONITOR

DESIGN-BUILD SCOPE

GENERAL CONTRACTOR AND SUBCONTRACTORS TO REVIEW CONSTRUCTION DOCUMENTS AND PROVIDE CODE REQUIRED MEP DESIGN IN COORDINATION WITH THE ARCHITECTURE PLANS. FURTHER MODIFICATION MAY BE REQUIRED.

ELECTRICAL:
1. SUBMIT CO DETECTION SYSTEM DESIGN FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. COMPLY WITH OSSC §3403.8.1, NFPA 72, AND AHJ REQUIREMENTS.

UNIT PRICING

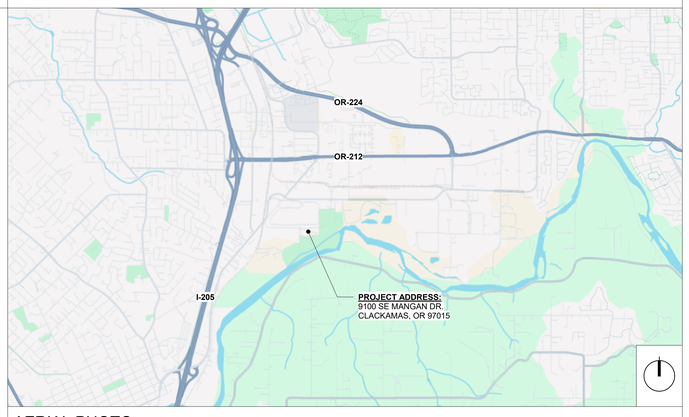
REMOVAL OF EXISTING UNDERLAYMENT:

PROVIDE A UNIT PRICE PER 10 SQUARE FEET OF REMOVAL OF EXISTING UNDERLAYMENT AS REQUIRED FOR INSTALLATION OF NEW UNDERLAYMENT.

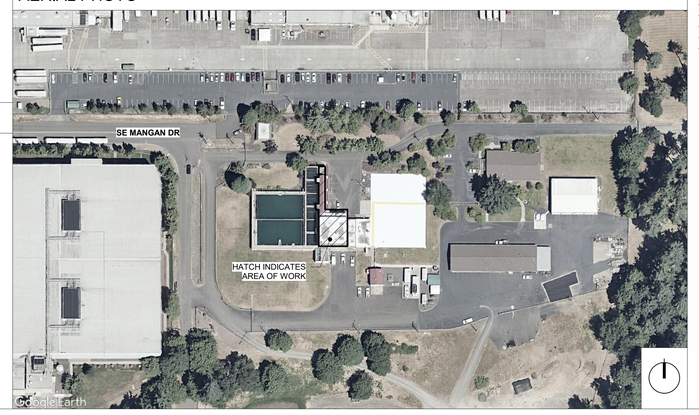
FLOOR LEVELING REPLACEMENT:

PROVIDE A UNIT PRICE PER ADDITIONAL 10 SQUARE FEET OF INSTALLATION OF SELF-LEVELING FLOOR UNDERLAYMENT FOR NEW FLOORING WITHIN THE CONTROL ROOM AND OPERATIONS OFFICE. ASSUME 200 SF IN BASE BID.

VICINITY MAP



AERIAL PHOTO



SHEET INDEX

-GENERAL-

G0.00	COVER SHEET
G1.00	CODE PLAN
G2.00	ACCESSIBILITY STANDARDS - EXISTING
G2.10	ACCESSIBILITY STANDARDS - EXISTING

-DEMO-

D1.10	DEMO FIRST FLOOR PLAN
D1.20	DEMO SECOND FLOOR PLAN
D1.30	DEMO THIRD FLOOR AND ROOF PLANS
D2.10	DEMO FIRST FLOOR REFLECTED CEILING PLAN
D2.20	DEMO SECOND FLOOR REFLECTED CEILING PLAN
D4.10	DEMO EXTERIOR ELEVATIONS
D4.20	DEMO EXTERIOR ELEVATIONS

-ARCHITECTURAL-

A0.10	ASSEMBLIES AND FINISH SCHEDULES
A0.20	DOOR AND WINDOW SCHEDULES
A0.30	DOOR HARDWARE SCHEDULE
A1.10	FIRST FLOOR PLAN
A1.20	SECOND FLOOR PLAN
A1.30	THIRD FLOOR PLAN AND ROOF PLAN
A2.10	FIRST FLOOR REFLECTED CEILING PLAN
A2.20	SECOND FLOOR REFLECTED CEILING PLAN
A3.10	FIRST FLOOR FINISH PLAN
A3.20	SECOND FLOOR FINISH PLAN
A4.00	OVERALL EXTERIOR ELEVATIONS
A4.10	EXTERIOR ELEVATIONS
A4.20	EXTERIOR ELEVATIONS
A5.00	BUILDING SECTIONS
A5.10	WALL SECTIONS
A5.20	WALL SECTIONS
A5.30	WALL SECTIONS
A5.40	WALL SECTIONS
A6.00	HANDRAIL AND GUARDRAIL PLANS AND SECTIONS
A6.10	FIRST FLOOR DIMENSION PLAN
A6.20	SECOND FLOOR DIMENSION PLAN
A6.30	THIRD FLOOR DIMENSION PLAN
A7.10	ENLARGED PLANS AND INTERIOR ELEVATIONS
A7.20	ENLARGED PLANS AND INTERIOR ELEVATIONS
A8.00	EXTERIOR DETAILS
A8.10	EXTERIOR DETAILS
A8.20	EXTERIOR DETAILS
A8.30	FRAMING DETAILS
A9.00	INTERIOR DETAILS
A9.10	INTERIOR DETAILS
A9.20	INTERIOR DETAILS

-PLUMBING-

P0.01	SYMBOL LIST AND GENERAL NOTES - PLUMBING
P0.02	SCHEDULES & DETAILS - PLUMBING
PD2.10	DEMO FIRST FLOOR PLAN - PLUMBING
PD2.20	DEMO SECOND FLOOR PLAN - PLUMBING
P2.10	FIRST FLOOR PLAN - PLUMBING
P2.20	SECOND FLOOR PLAN - PLUMBING

-MECHANICAL-

M0.01	SYMBOL LIST AND GENERAL NOTES - MECHANICAL
M0.02	SCHEDULES - MECHANICAL
MD2.10	DEMO FIRST FLOOR PLAN - MECHANICAL
MD2.20	DEMO SECOND FLOOR PLAN - MECHANICAL
MD2.30	DEMO THIRD FLR PLAN AND ROOF - MECHANICAL
M2.10	FIRST FLOOR PLAN - MECHANICAL
M2.20	SECOND FLOOR PLAN - MECHANICAL
M2.30	THIRD FLOOR PLAN AND ROOF - MECHANICAL
M3.01	SECTIONS & ELEVATIONS - MECHANICAL
M4.01	DETAILS - MECHANICAL
M4.02	DETAILS - MECHANICAL

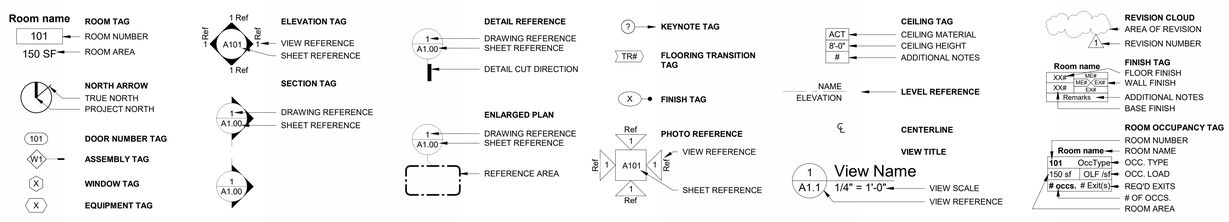
-ELECTRICAL-

E0.01	SYMBOL LIST AND GENERAL NOTES - ELECTRICAL
E0.02	LUMINAIRE SCHEDULES - ELECTRICAL
ED2.10	DEMO FIRST FLOOR PLAN - POWER
ED2.20	DEMO SECOND FLOOR PLAN - POWER
ED2.30	DEMO THIRD FLOOR PLAN - POWER
ED3.10	DEMO FIRST FLOOR PLAN - LIGHTING
ED3.20	DEMO SECOND FLOOR PLAN - LIGHTING
E2.10	FIRST FLOOR PLAN - POWER
E2.20	SECOND FLOOR PLAN - POWER
E2.30	THIRD FLOOR PLAN AND ROOF - POWER
E3.10	FIRST FLOOR PLAN - LIGHTING
E3.20	SECOND FLOOR PLAN - LIGHTING
E6.01	SCHEDULES - ELECTRICAL
E6.02	PANEL SCHEDULES - ELECTRICAL
E7.01	DETAILS - ELECTRICAL

-TECHNOLOGY-

T0.01	SYMBOL LIST AND GENERAL NOTES - TECHNOLOGY
TD2.10	FIRST FLOOR PLAN - TECHNOLOGY
TD2.20	SECOND FLOOR PLAN - TECHNOLOGY
T2.10	FIRST FLOOR PLAN - TECHNOLOGY
T2.20	SECOND FLOOR PLAN - TECHNOLOGY
T4.01	ENLARGED PLANS - TECHNOLOGY

SYMBOL LEGEND



ONE INCH EQUALS FULL SCALE

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ZCS
524 Main Street, Suite 2
Oregon City, OR 97045
503.659.2205

CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
STATE OF OREGON

△	DESCRIPTION	DATE:

PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

COVER SHEET

G0.00

BID AND PERMIT SET

CODE PLAN LEGEND

1 HOUR FIRE PARTITION

2 HOUR FIRE BARRIER

LINE INDICATES EGRESS PATH

HATCH INDICATES AREA OUT OF SCOPE OF WORK

FE — FIRE EXTINGUISHER

WALL MOUNTED ILLUMINATED EXIT SIGN

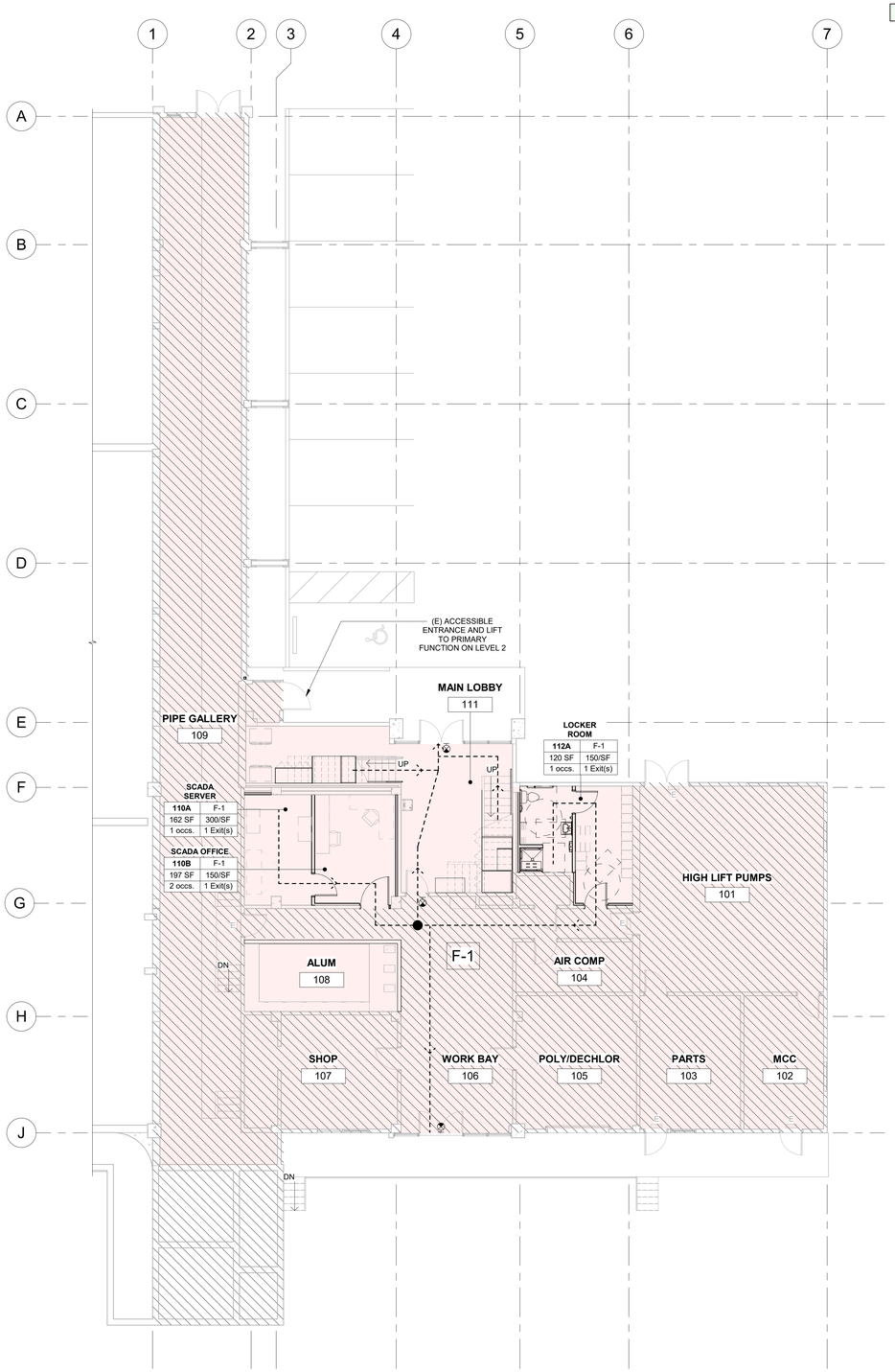
LOCATION OF (2) OPTIONS OF EGRESS

E — (E) EXIT SIGN PLACARD

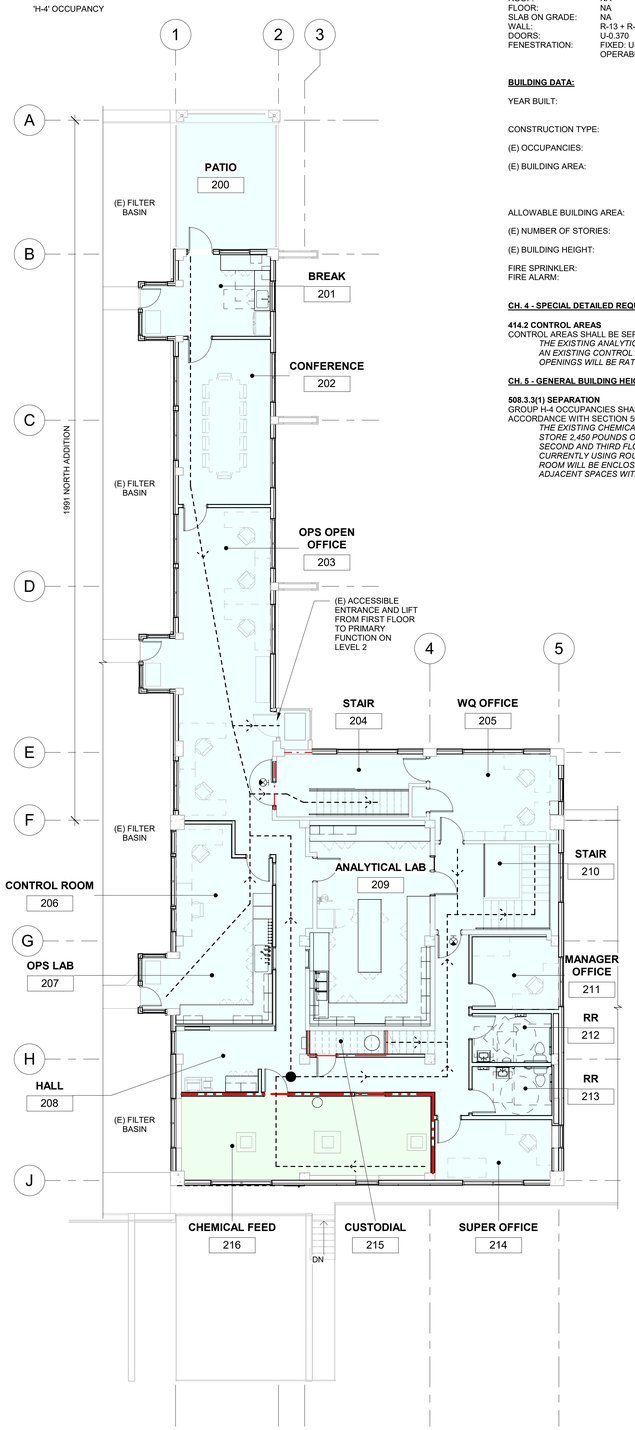
'B' OCCUPANCY

'F-1' OCCUPANCY

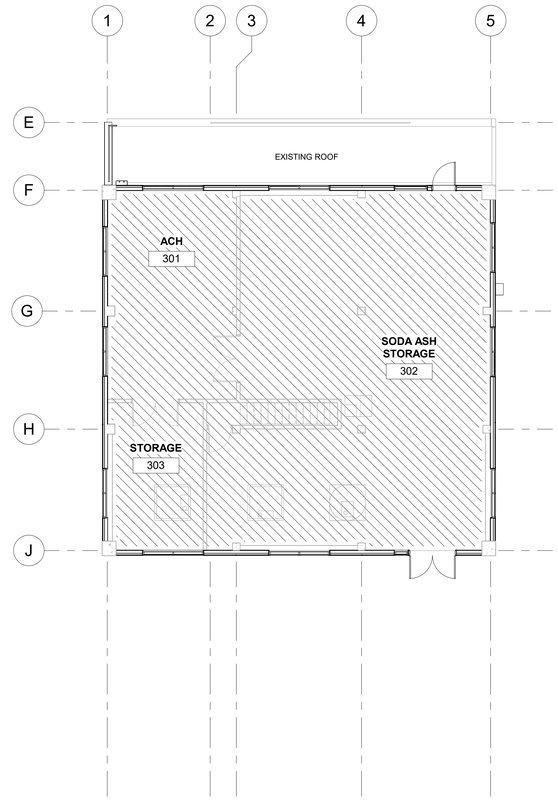
'H-4' OCCUPANCY



1 G1.00 FIRST FLOOR CODE PLAN
1/8" = 1'-0"



2 G1.00 SECOND FLOOR CODE PLAN
1/8" = 1'-0"



3 G1.00 THIRD FLOOR CODE PLAN
1/8" = 1'-0"

CODE SUMMARY

LIFE SAFETY NARRATIVE
PROJECT CONSISTS OF:
- DEMOLISHING AND RECONSTRUCTING THE EXISTING EXTERIOR NON-LOAD BEARING WALLS ON THE SECOND AND THIRD FLOORS
- INTERIOR ALTERATIONS ON THE FIRST AND SECOND FLOORS

EXISTING EGRESS ROUTES HAVE BEEN SLIGHTLY ALTERED ON THE SECOND FLOOR WHILE EXIT LOCATIONS REMAIN UNCHANGED. NEW EXTERIOR WALLS, DOORS AND WINDOWS WILL COMPLY WITH PRESCRIPTIVE ENVELOPE REQUIREMENTS OF THE ENERGY CODE

APPLICABLE CODES

BUILDING CODE	2025 OSSC
PLUMBING CODE	2023 OPSC
MECHANICAL CODE	2025 OMSC
ELECTRICAL CODE	2023 OESC
ENERGY EFFICIENCY	2024 OEESC
ACCESSIBILITY	2017 ICC A117.1
FIRE CODE	2025 OFC

ENERGY CODE REQUIREMENTS:

ROOF:	NA
FLOOR:	NA
SLAB ON GRADE:	NA
WALL:	R-13 + R-7.5 C.I.
DOORS:	U-0.370
FENESTRATION:	FIXED: U-0.36 MAX, SHGC 0.36 MAX OPERABLE: U-0.45 MAX, SHGC 0.33 MAX

BUILDING DATA:

YEAR BUILT:	1963 1991 NORTH ADDITION
CONSTRUCTION TYPE:	IIB (NON-SPRINKLERED)
(E) OCCUPANCIES:	F-1, B, H-4 (NONSEPARATED)
(E) BUILDING AREA:	1ST FLOOR: 6,368 SF 2ND FLOOR: 3,911 SF 3RD FLOOR: 2,474 SF TOTAL: 12,753 SF
ALLOWABLE BUILDING AREA:	15,500 SF
(E) NUMBER OF STORIES:	3
(E) BUILDING HEIGHT:	34'-4" ±
FIRE SPRINKLER:	NO
FIRE ALARM:	YES

CH. 4 - SPECIAL DETAILED REQUIREMENTS BASED ON OCCUPANCY AND USE

414.2 CONTROL AREAS
CONTROL AREAS SHALL BE SEPARATED FROM EACH OTHER BY FIRE BARRIERS
THE EXISTING ANALYTICAL LAB (RM 209) ON THE SECOND FLOOR IS TREATED AS AN EXISTING CONTROL AREA. THE WALLS ARE EXISTING BUT THE NEW OPENINGS WILL BE RATED

CH. 5 - GENERAL BUILDING HEIGHTS AND AREAS

508.3.3(1) SEPARATION
GROUP H-4 OCCUPANCIES SHALL BE SEPARATED FROM ALL OTHER OCCUPANCIES IN ACCORDANCE WITH SECTION 508.4
THE EXISTING CHEMICAL FEED ROOM HAS TWO HOPPERS THAT CAN EACH STORE 2,450 POUNDS OF SODA ASH. THE AMOUNT SPANS BETWEEN THE SECOND AND THIRD FLOORS BASED ON HOW FULL THE HOPPER IS. THEY ARE CURRENTLY USING ROUGHLY 400 – 600 POUNDS OF SODA ASH PER DAY. THE ROOM WILL BE ENCLOSED AS PART OF THIS PROJECT AND SEPARATED FROM ADJACENT SPACES WITH A 2-HOUR FIRE BARRIER PER TABLE 508.4

CH. 6 - TYPES OF CONSTRUCTION

602.2 TYPES I AND II
TYPES I AND II CONSTRUCTION ARE THOSE TYPES OF CONSTRUCTION IN WHICH THE BUILDING ELEMENTS SPECIFIED IN TABLE 601 ARE OF NONCOMBUSTIBLE MATERIALS, EXCEPT AS PERMITTED IN SECTION 603 AND ELSEWHERE IN THE CODE

CH. 7 - FIRE AND SMOKE PROTECTION FEATURES

707.5 CONTINUITY
FIRE BARRIERS SHALL EXTEND FROM THE TOP OF THE FOUNDATION OR FLOOR/CEILING ASSEMBLY BELOW TO THE UNDERSIDE OF THE FLOOR OR ROOF SHEATHING, SLAB OR DECK ABOVE AND SHALL BE SECURELY ATTACHED THERETO

TABLE 716.1(2) OPENING FIRE PROTECTION ASSEMBLIES, RATINGS AND MARKINGS
SEE DOOR SCHEDULE FOR COMPLIANCE

CH. 8 - INTERIOR FINISHES

TABLE 803.13 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY

	ROOMS AND ENCLOSED SPACES	CORRIDORS
GROUP B:	C	B
GROUP F:	C	C
GROUP H:	B	A

CLASS A = FLAME SPREAD INDEX 0-25; SMOKE DEVELOPED INDEX 0-450
CLASS B = FLAME SPREAD INDEX 26-75; SMOKE DEVELOPED INDEX 0-450
CLASS C = FLAME SPREAD INDEX 76-200; SMOKE DEVELOPED INDEX 0-450

CH. 10 - MEANS OF EGRESS

2ND FLOOR OCCUPANT LOAD SUMMARY

OCCUPANCY	ROOM #	FLOOR AREA	LOAD FACTOR	# OF OCCUPANTS
B	200	225 SF	1/15 NET	15
B	202	256 SF	1/15 NET	17
B	201, 203-211, 213-216	3001 SF	1/150 GROSS	20
H-4	217	355 SF	1/300 GROSS	2
TOTAL		3837 SF		54
ACTUAL # OF EMPLOYEES				11

1011.7.3 ENCLOSURES UNDER INTERIOR STAIRWAYS
THE WALLS AND SOFFITS WITHIN ENCLOSED USEABLE SPACES UNDER ENCLOSED STAIRWAYS SHALL BE PROTECTED BY 1-HOUR FIRE-RESISTANCE RATED CONSTRUCTION.

CH. 34 - EXISTING BUILDINGS

3403.1.3.1 PRESCRIPTIVE COMPLIANCE METHOD
ALTERATIONS COMPLYING WITH SECTION 3405 SHALL BE CONSIDERED IN COMPLIANCE WITH THE PROVISIONS OF THIS CHAPTER
PRESCRIPTIVE COMPLIANCE METHOD IS THE CHOSEN METHOD FOR THIS PROJECT

3403.6.7.1 ALTERATIONS AFFECTING AN AREA CONTAINING A PRIMARY FUNCTION
WHERE AN ALTERATION AFFECTS THE ACCESSIBILITY TO, OR CONTAINS AN AREA OF PRIMARY FUNCTION, THE ROUTE TO THE PRIMARY FUNCTION AREA SHALL BE ACCESSIBLE. TOILET FACILITIES AND DRINKING FOUNTAINS SERVING THE AREA OF PRIMARY FUNCTION, INCLUDING THE ROUTE FROM THE AREA OF PRIMARY FUNCTION TO THESE FACILITIES, SHALL BE ACCESSIBLE
THIS ALTERATION PROJECT INCLUDES REMODEL OF THE EXISTING RESTROOM AND LOCKER ROOM ON THE FIRST FLOOR TO BE ADA COMPLIANT, CONSTRUCTING TWO NEW ADA COMPLIANT SINGLE-USER RESTROOMS ON THE SECOND FLOOR, AND REPLACING EXISTING RAILING AT BOTH STAIRS TO THE SECOND FLOOR WITH ADA COMPLIANT HANDRAILS

3405.3.1 GENERAL
ALTERATIONS TO ANY BUILDING OR STRUCTURE SHALL COMPLY WITH THE REQUIREMENTS OF THIS CODE FOR NEW CONSTRUCTION. ALTERATION SHALL BE SUCH THAT THE EXISTING BUILDING OR STRUCTURE IS NOT LESS COMPLIANT WITH THE PROVISIONS OF THIS CODE FOR NEW CONSTRUCTION THAN THE EXISTING BUILDING OR STRUCTURE WAS PRIOR TO THE ALTERATION
THE PROPOSED ALTERATIONS DO NOT MAKE THE EXISTING BUILDING ANY LESS COMPLIANT THAN BEFORE. IN FACT, THE PROPOSED ALTERATIONS BRING THE BUILDING CLOSER INTO COMPLIANCE THAN IT WAS WITH THE FOLLOWING:
- *ADDS ADA COMPLIANT RESTROOMS ON THE SECOND FLOOR*
- *IMPROVES THERMAL ENVELOPE ON SECOND AND THIRD FLOORS*
- *ENCLOSES THE CHEMICAL FEED ROOM ON THE SECOND FLOOR IN AN 2-HR RATED ENCLOSURE*
- *ENCLOSES THE USABLE SPACE UNDER INTERIOR STAIRS ON THE SECOND FLOOR IN A 1-HR RATED ENCLOSURE*

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CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
1994
STATE OF OREGON

△	DESCRIPTION	DATE:

PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

CODE PLAN

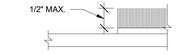
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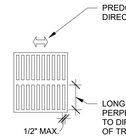
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8/7/2026 11:42:43 AM
ONE INCH EQUALS FULL SCALE

ICC A117.1 - 2017 EXISTING BUILDINGS

NOTE:
CARPET OR CARPET TILE SHALL HAVE A LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. THE PILE SHALL BE 1/2" MAX. IN HEIGHT. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO THE FLOOR AND SHALL HAVE TRIM ALONG THE ENTIRE LENGTH OF THE EXPOSED EDGE.

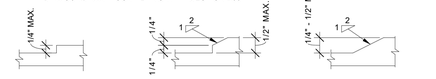


FLOOR SURFACES - SECTION 302



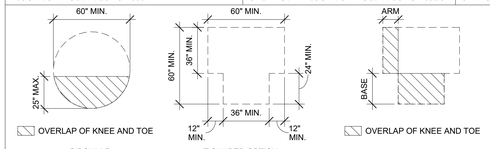
OPENINGS IN FLOOR SURFACES - SECTION 302.3

NOTE:
CHANGES IN LEVEL GREATER THAN 1/2" IN HEIGHT SHALL BE BY RAMP COMPLYING WITH SECTION 405 OR BY A CURB RAMP COMPLYING WITH SECTION 406

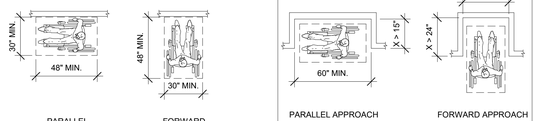


VERTICAL CHANGE IN LEVEL | BEVELED CHANGE IN LEVEL (A) | BEVELED CHANGE IN LEVEL (B)

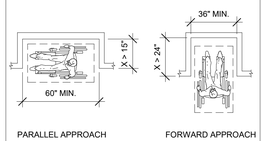
CHANGES IN LEVEL - SECTION 303



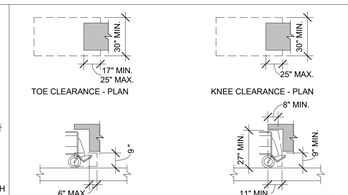
TURNING SPACE (EXISTING BUILDINGS) - SECTION 304



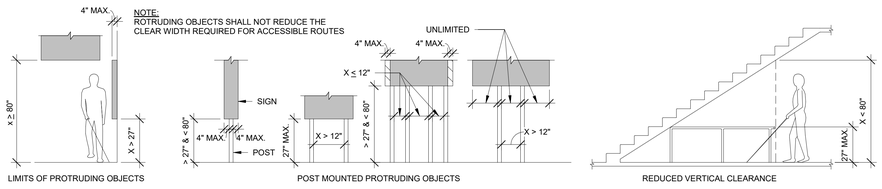
POSITION OF CLEAR FLOOR SPACE (EXISTING BUILDINGS) - SECTION 305.5



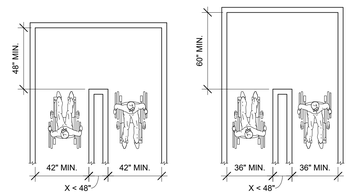
MANEUVERING CLEARANCE IN AN ALCOVE - SECTION 305.7

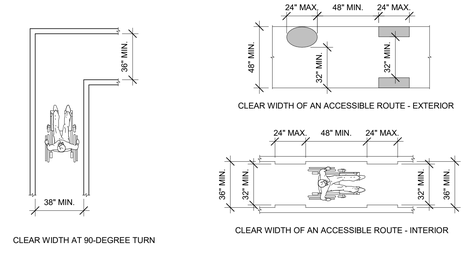


KNEE AND TOE CLEARANCE - SECTION 306

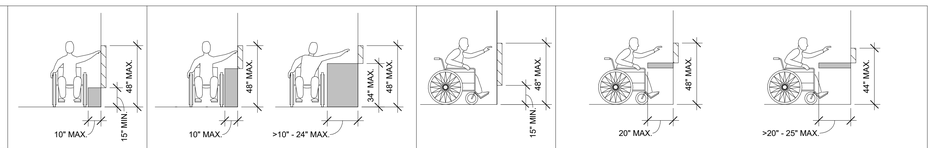


PROTRUDING OBJECTS - SECTION 307

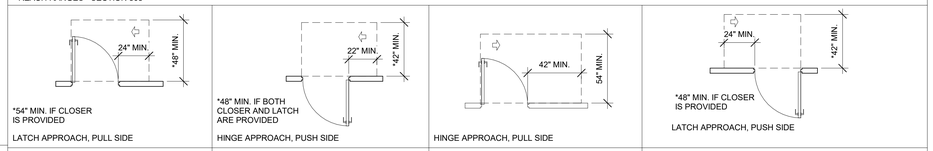




CLEAR WIDTH OF AN INTERIOR ACCESSIBLE ROUTE (EXISTING BUILDINGS) - SECTION 403.5

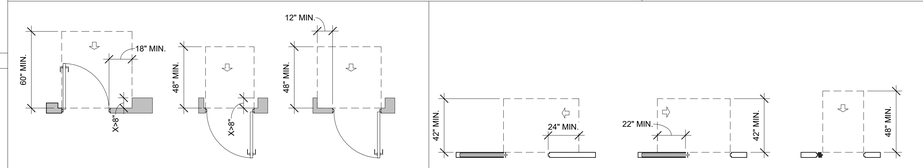


REACH RANGES - SECTION 308



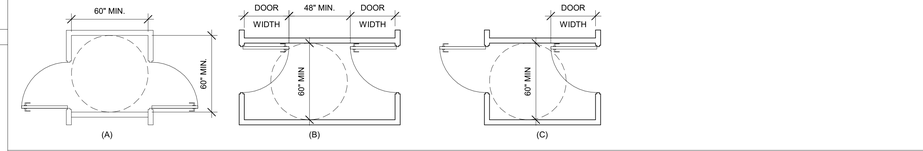
MANEUVERING CLEARANCE AT SWINGING DOORS (EXISTING BUILDINGS) - SECTION 404.2.3

CLEAR WIDTH OF DOORWAYS - SECTION 404.2

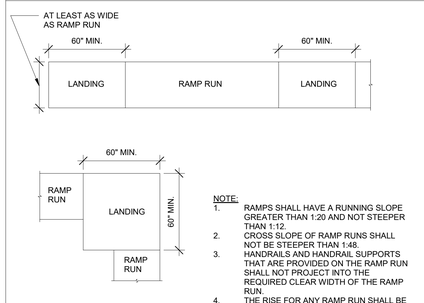


MANEUVERING CLEARANCES AT RECESSED DOORS (EXISTING BUILDINGS) - SECTION 404.2.3.5

MANEUVERING CLEARANCE AT SLIDING AND FOLDING DOORS (EXISTING BUILDINGS) - SECTION 404.2.3.3

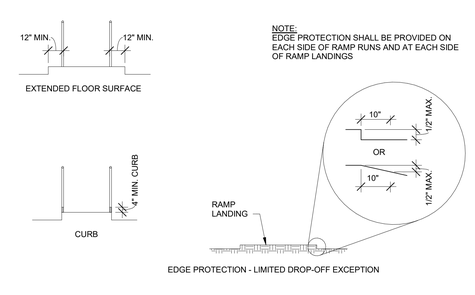


TWO DOORS OR GATES IN A SERIES (EXISTING BUILDINGS) - SECTION 404.2.5



NOTE:
1. RAMPS SHALL HAVE A RUNNING SLOPE GREATER THAN 1:20 AND NOT STEEPER THAN 1:12.
2. CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 1:48.
3. HANDRAILS AND HANDRAIL SUPPORTS THAT ARE PROVIDED ON THE RAMP RUN SHALL NOT PROJECT INTO THE REQUIRED CLEAR WIDTH OF THE RAMP RUN.
4. THE RISE FOR ANY RAMP RUN SHALL BE 30" MAX.
5. RAMPS SHALL HAVE LANDINGS AT THE BOTTOM AND TOP OF EACH RAMP RUN
6. LANDINGS SHALL HAVE A SLOPE NOT STEEPER THAN 1:48.
7. CLEAR WIDTH OF LANDINGS SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING.
8. RAMP RUNS WITH A RISE GREATER THAN 6" SHALL HAVE HANDRAILS.

RAMPS - SECTION 405



RAMP EDGE PROTECTION - SECTION 405.9

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CLACKAMAS COUNTY STAMP

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WTP BUILDING IMPROVEMENTS 2026

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Clackamas River Water

REGISTERED ARCHITECT
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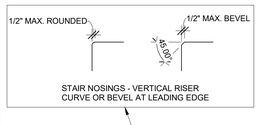
ACCESSIBILITY STANDARDS - EXISTING

G2.00

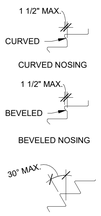
BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE
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ICC A117.1 - 2017 EXISTING BUILDINGS



TREADS AND RISERS

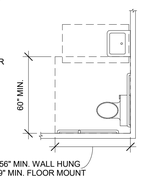


ANGLED RISER

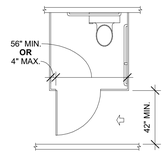
NOTES:
1. ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE A UNIFORM RISER HEIGHT AND UNIFORM TREAD DEPTH.
2. OPEN RISERS SHALL NOT BE PERMITTED.
3. NOSINGS WITHIN A STAIRWAY SHALL BE UNIFORM.
4. NOSINGS THAT PROJECT BEYOND RISERS SHALL HAVE THE UNDERSIDE OF THE LEADING EDGE CURVED OR BEVELED.
5. VISUAL CONTRAST SHALL COMPLY WITH EITHER A OR B:
   A. THE LEADING 1" - 2" OF EVERY TREAD AND LANDING, MEASURED HORIZONTALLY FROM THE LEADING EDGE OF THE NOSING, SHALL CONSIST OF A SOLID COLOR HAVING VISUAL CONTRAST OF DARK-ON-LIGHT OR LIGHT-ON-DARK FROM THE REMAINDER OF THE TREAD. THE CONTRASTING MARKING SHALL BE DURABLE AND SHALL EXTEND FROM ONE SIDE OF EACH TREAD TO THE OTHER SIDE OF EACH TREAD.
   B. DURABLE DISTINCTIVE WARNING MARKINGS REQUIRED BY THE ADOPTED BUILDING CODE OR ANSI SAFETY SANDARD.

STAIR TREADS AND RISERS - SECTION 504

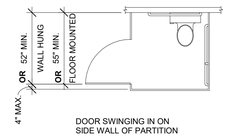
NOTE:
THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, PAPER DISPENSERS, SANITARY NAPKIN RECEPTACLES, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AT OTHER FIXTURES AND THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE WITHIN THE REQUIRED WATER CLOSET CLEARANCE



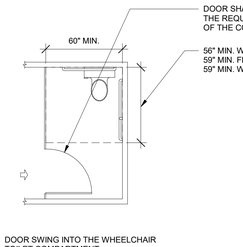
WATER CLOSET CLEARANCE SIZE - SECTION 604.3



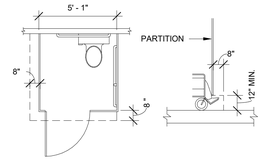
DOOR SWINGING IN ON
FRONT WALL OF PARTITION



DOOR SWINGING IN ON
SIDE WALL OF PARTITION

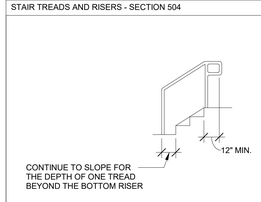


DOOR SWING INTO THE WHEELCHAIR
TOILET COMPARTMENT

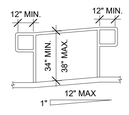


TOE CLEARANCE - PLAN TOE CLEARANCE - ELEVATION

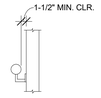
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT & DOOR OPENING LOCATION - SECTION 604.9



STAIR HANDRAIL & EXTENSIONS



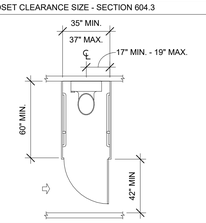
RAMP HANDRAIL & EXTENSIONS



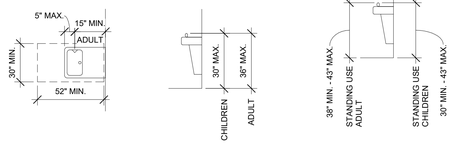
HANDRAIL CLEARANCE

NOTES:
1. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS.
2. HANDRAILS SHALL BE CONTINUOUS WITHIN FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON SWITCHBACK OR DOGLEG STAIRS OR RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHT FLIGHTS AND RUNS.
3. HANDRAIL HEIGHT SHALL BE MEASURED VERTICALLY ABOVE NOSINGS, RAMP SURFACES AND WALKING SURFACES.
4. GRIPPING SURFACES SHALL BE CONTINUOUS, WITHOUT INTERRUPTION BY NEWEL POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTTIONS.
5. HANDRAIL CROSS SECTIONS:
   A. CIRCULAR: 1 1/4" MIN. - 2" MAX.
   B. NONCIRCULAR PERIMETER: 4" MIN. - 6 1/4" MAX.
   C. NONCIRCULAR CROSS SECTION: 2 1/4" MAX.
6. HANDRAIL EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR FLOOR, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN OR AN ADJACENT STAIR FLIGHT.

HANDRAILS - SECTION 505



AMBULATORY ACCESSIBLE TOILET COMPARTMENT - SECTION 604.10



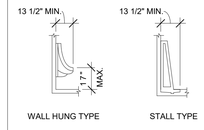
CLEAR FLOOR SPACE
& SPOUT LOCATION

WHEELCHAIR DRINKING FOUNTAIN
SPOUT HEIGHT & LOCATION

STANDING USE DRINKING FOUNTAIN
SPOUT HEIGHT & LOCATION

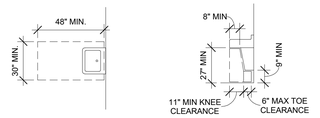
NOTE:
WHERE BOTTLE FILLING STATIONS ARE PART OF THE DRINKING FOUNTAIN FOR PERSONS WHO ARE STANDING, THE BOTTLE FILLING STATION IS NOT REQUIRED TO COMPLY WITH THIS SECTION PROVIDED A BOTTLE FILLING STATION IS LOCATED AT THE DRINKING FOUNTAIN FOR PERSONS USING WHEELCHAIRS.

DRINKING FOUNTAINS - SECTION 602



WALL HUNG TYPE STALL TYPE

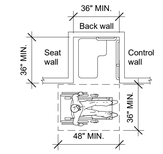
URINALS - SECTION 605



LAVATORY CLEAR FLOOR SPACE LAVATORY KNEE AND TOE CLEARANCE

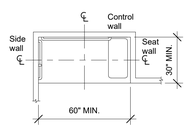
LAVATORIES - SECTION 606

NOTE:
PROVIDE HORIZONTAL
AND VERTICAL GRAB
BARS PER ICC A117.1



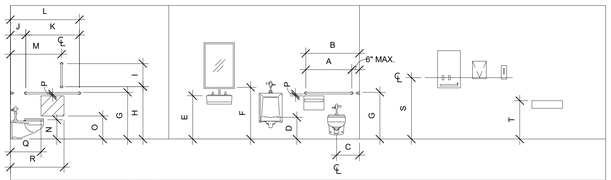
TRANSFER-TYPE COMPARTMENT CLEARANCES
(EXISTING BUILDINGS) - SECTION 608

NOTE:
PROVIDE HORIZONTAL
AND VERTICAL GRAB
BARS PER ICC A117.1



NOTE:
INSIDE FINISHED DIMENSIONS MEASURED AT
THE CENTER POINTS OF OPPOSING SIDES

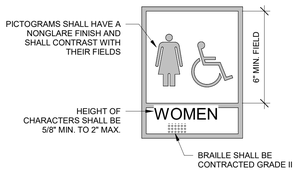
STANDARD ROLL-IN-TYPE SHOWER
COMPARTMENT SIZE - SECTION 608



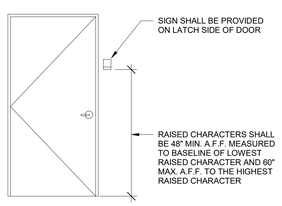
FIXTURES	DIM#	MOUNTING HEIGHT
REAR WALL GRAB BAR	A	36" MIN IN LENGTH
REAR WALL GRAB BAR	B	EXTEND 42" MIN FROM THE SIDE WALL
TOILET	C	16" MIN - 18" MAX TO CENTER FROM SIDE WALL
URINAL (ADA)	D	17" TO RIM A.F.F
URINAL	D	24" TO RIM A.F.F.
SINK (ADA)	E	34" MAX TO THE HIGHER OF THE RIM OR COUNTER SURFACE
MIRROR	F	40" MAX TO BOTTOM EDGE OF REFLECTING SURFACE
HORIZONTAL GRAB BAR	G	33" MIN - 36" MAX HEIGHT A.F.F. TO T.O. GRIPPING SURFACE
VERTICAL GRAB BAR	H	39" MIN - 41" MAX HEIGHT A.F.F.
VERTICAL GRAB BAR	I	18" MIN IN LENGTH
SIDE WALL GRAB BAR	J	12" MAX FROM REAR WALL
SIDE WALL GRAB BAR	K	42" MIN IN LENGTH
SIDE WALL GRAB BAR	L	EXTEND 54" MIN FROM REAR WALL
VERTICAL GRAB BAR	M	39" MIN - 41" MAX FROM THE REAR WALL TO CENTERLINE OF BAR
TOILET	N	17" MIN - 19" MAX TO T.O. SEAT A.F.F.
TOILET PAPER AND SANITARY NAPKIN DISPENSER	O	18" MIN. TO OUTLET OF DISPENSOR A.F.F.
TOILET PAPER AND SEAT COVER DISPENSER	P	1 1/2" MIN. FROM B.O. GRAB BAR
TOILET PAPER DISPENSER	Q	24" MIN - 36" MAX FROM WALL TO OUTLET OF DISPENSOR
TOILET PAPER DISPENSER	R	42" MAX FROM WALL TO OUTLET OF DISPENSOR
ACCESSORY DISPENSERS	S	48" MAX A.F.F. TO HIGHEST OPERABLE PARTS OR 44" MAX A.F.F. IF OVER AN OBSTRUCTION W/ A DEPTH OF >20"
BABY CHANGING TABLE	T	28" MIN - 34" MAX HEIGHT A.F.F.

TYPICAL MOUNTING REQUIREMENTS

NOTE:
LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MIN. AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED GRADE 2 BRAILLE WITH A CONTRASTING BACKGROUND.

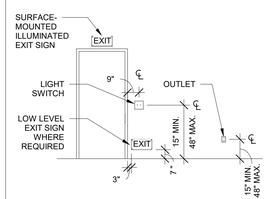


GENERAL SIGNAGE REQUIREMENTS

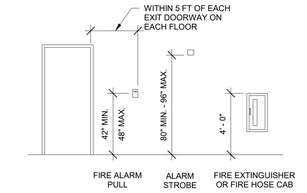


RESTROOM SIGN LOCATION

SIGNAGE, IDENTIFICATION & INTERNATIONAL SYMBOLS OF ACCESSIBILITY - SECTION 703

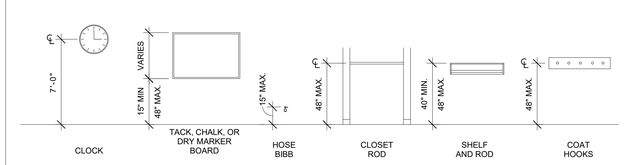


EXIT SIGNS, LIGHT SWITCHES & OUTLETS



FIRE ALARM
PULL
ALARM
STROBE
FIRE EXTINGUISHER
OR FIRE HOSE CAB

FIRE APPLIANCES



CLOCK
TACK, CHALK, OR
DRY MARKER
BOARD
HOSE
BIBB
CLOSET
ROD
SHELF
AND ROD
COAT
HOOKS

MISCELLANEOUS MOUNTING HEIGHTS

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CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
STATE OF OREGON

△	DESCRIPTION	DATE:

PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

ACCESSIBILITY STANDARDS - EXISTING

G2.10

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

8/7/2026 11:42:44 AM Autodesk Docs://P3116 Clackamas River Water/P3116_ARCH_R26.rvt



1 D1.10 DEMO FIRST FLOOR PLAN
1/4" = 1'-0"

DEMO PLAN GENERAL NOTES

A. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND TECHNOLOGY DRAWINGS FOR FULL SCOPE OF MEP DEMOLITION. ONLY SHOWN ON ARCHITECTURAL DRAWINGS FOR REFERENCE. PATCHING AND INFILL OF FLOORS, WALLS, CEILINGS, AND ROOF ASSEMBLIES AFFECTED BY MEP DEMOLITION IS INCLUDED IN THE SCOPE OF WORK, WHETHER OR NOT INDICATED. MATCH ADJACENT CONSTRUCTION AND MAINTAIN ALL REQUIRED FIRE-RESISTANCE RATINGS.

B. ALL EXISTING BUILDING COLUMNS AND STRUCTURAL MEMBERS TO REMAIN, U.N.O. CONTRACTOR TO SCAN CONCRETE SLAB FOR REBAR PRIOR TO CORE DRILLING.

C. OBTAIN DEMOLITION PERMITS AND INCLUDE ALL COSTS OF SAME IN CONTRACT PRICE.

D. CONTRACTOR SHALL MAINTAIN CONSTRUCTION AREA(S) FREE OF DUST AND DEBRIS FOR THE DURATION OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR DISPOSAL OR REMOVAL OF ALL DEBRIS AND MISCELLANEOUS MATERIALS. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION AREA(S) SHALL BE LEFT IN "BROOM CLEAN" CONDITION.

E. FURNISH ALL LABOR AND MATERIALS/EQUIPMENT TO COMPLETE DEMOLITION AND REMOVAL OF ALL ITEMS AS INDICATED. PATCH AND REPAIR INTERIOR SPACE AS REQUIRED UPON COMPLETION OF DEMOLITION. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, CLARIFY THE POINT IN QUESTION WITH PROJECT TEAM BEFORE PROCEEDING.

F. WHERE INTERIOR PARTITIONS, COLUMN FURRING, FIXTURES, CABINETRY, DOORS AND DOOR FRAMES, ARE SCHEDULED FOR REMOVAL, DISPOSE OF ALL DEBRIS AND PATCH FLOOR AND WALLS AS REQUIRED. PREPARE ALL WALL, CEILING, AND FLOOR SURFACES FOR NEW FINISHES U.N.O. TYPICAL THROUGHOUT ENTIRE SPACE.

G. IN ADDITION TO SPECIFIC DEMOLITION SCOPE IDENTIFIED, PERFORM MISCELLANEOUS DEMOLITION AS REQUIRED TO SUPPORT NEW CONSTRUCTION.

H. NO EXISTING SMOKE DETECTOR, FIRE ALARM BOX OR SIMILAR DEVICE, INCLUDING THE ASSOCIATED WIRING SHALL BE DAMAGED DURING DEMOLITION AND SUBSEQUENT CONSTRUCTION.

I. RELOCATION OF SMOKE DETECTORS, AND FIRE ALARM EQUIPMENT, NECESSITATED BY NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIORITY, AND PER THE PLANS. NO ACTIVE SMOKE DETECTOR SHALL BE PERMANENTLY COVERED OR OTHERWISE REMOVED OR USED FOR OTHER THAN ITS INTENDED PURPOSE. REMOVE TEMPORARY COVERS DAILY.

J. EXISTING ELEMENTS SHOWN ON PLANS ARE BASED ON AS-BUILT DRAWINGS AND NON-DESTRUCTIVE SITE OBSERVATION. FIELD VERIFY LOCATIONS, QUANTITIES AND CONFIGURATIONS OF EXISTING ELEMENTS. NOTIFY PROJECT TEAM IF EXISTING CONDITIONS ARE MATERIALLY DIFFERENT THAN WHAT IS SHOWN ON FLOOR PLANS. MARK MATERIAL DIFFERENCES DISCOVERED ON CONTRACTOR RED-LINED AS BUILTS.

K. REFER TO MEPT DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE NOT ADDRESSED BY ARCHITECTURAL DEMOLITION DRAWINGS.

L. COORDINATE ALL WORK WITH THE OWNER'S VENDORS RESPONSIBLE FOR ELECTRICAL, SCADA, FIRE ALARM, SECURITY, TELECOMMUNICATIONS, AND OTHER LOW-VOLTAGE SYSTEMS.

DEMO PLAN LEGEND

- (E) WALL TO BE DEMOLISHED
- (E) CONC WALL TO REMAIN
- (E) CMU WALL TO REMAIN
- ELEMENT TO BE DEMOLISHED
- SIDE OF (E) WALL FINISH TO BE DEMOLISHED
- (E) CONC COLUMN TO REMAIN
- (E) FLOOR FINISH TO BE DEMOLISHED TO (E) SLAB
- (E) CONC SLAB TO BE DEMOLISHED
- (E) 4" RAISED CONC BASE TO BE DEMOLISHED

KEYNOTES

1 DEMO DOOR AND FRAME
2 DEMO WINDOW
3 DEMO CASEWORK
4 DEMO PARTITION
5 REMOVE LOCKERS AND SALVAGE TO OWNER
6 REMOVE BENCH AND PREP FOR REINSTALLATION
7 REMOVE ALL WALL-MTD RR ACCESSORIES AND SALVAGE TO OWNER
8 DEMO CMU WALL AND RELOCATE ALL UTILITIES. SEE PLUMBING
9 SAWCUT AND DEMO FOOR SLAB AND TRENCH FOR UNDERGROUND PLUMBING CONNECTIONS. SEE PLUMBING
10 REMOVE DESK AND SALVAGE TO OWNER
11 DEMO FLOOR FINISH ON STAIRS; STAIR TO REMAIN
12 DEMO HANDRAIL
13 DEMO GUARDRAIL
14 REMOVE FISH TANK AND PREP FOR REINSTALLATION
15 REMOVE WALL-MTD MURAL AND PREP FOR REINSTALLATION
16 REMOVE PRINTER AND PREP FOR REINSTALLATION
17 REMOVE DATA CABINET AND PROTECT FOR REINSTALLATION. COORDINATE W/ OWNER'S VENDOR
18 DEMO PLYWOOD ATTACHED TO SIDE OF STAIRS
19 PIPING TO BE DEMOLISHED BY OWNER

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WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
2006
STATE OF OREGON

△	DESCRIPTION	DATE:

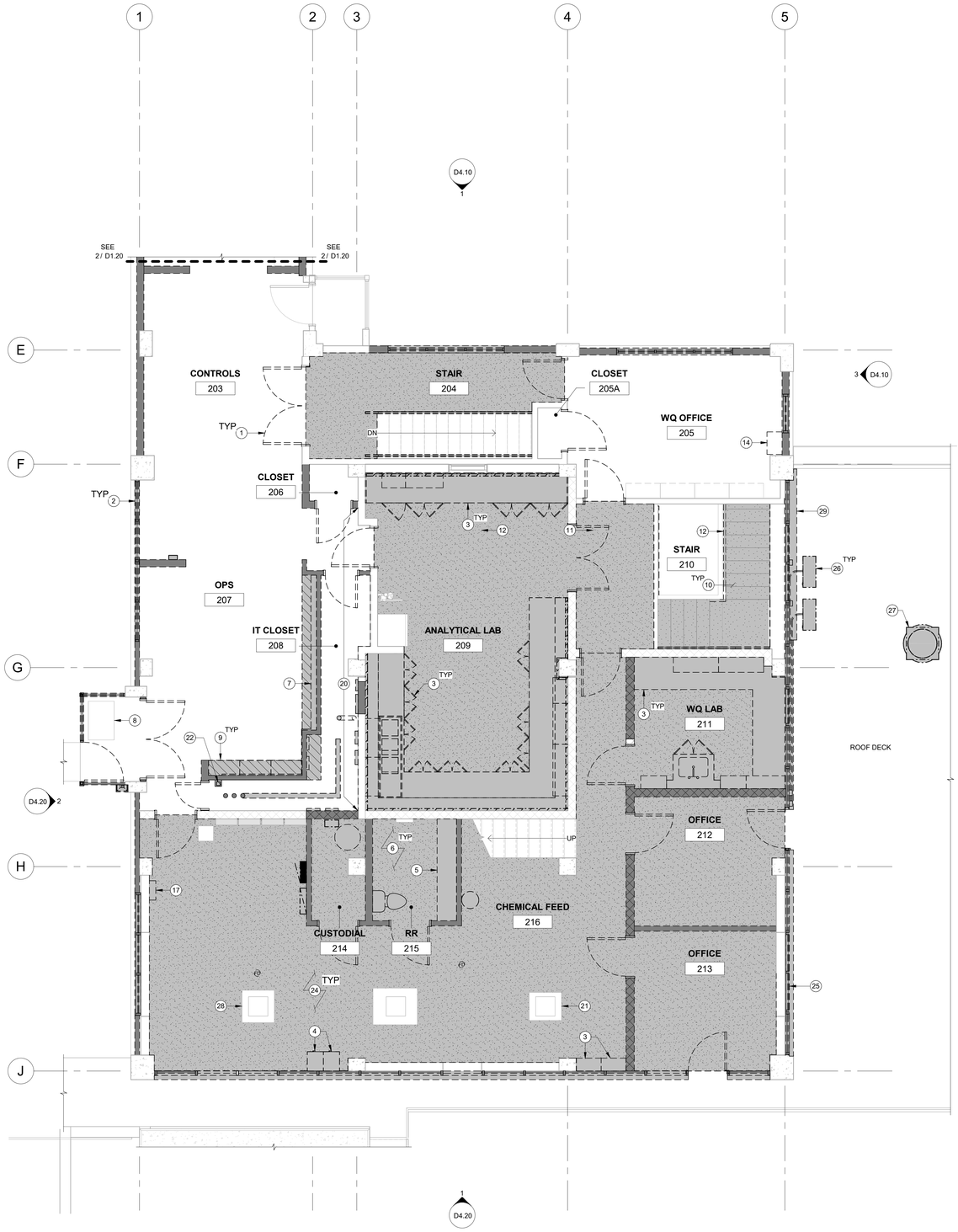
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DEMO FIRST FLOOR PLAN

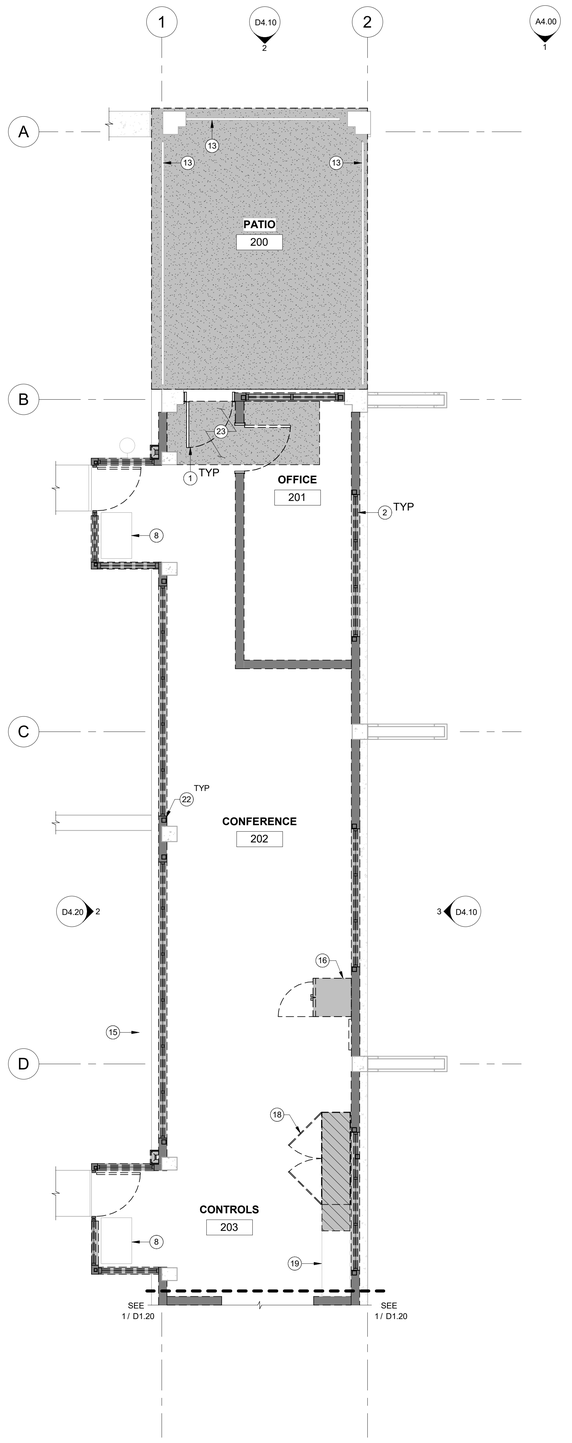
D1.10

BID AND PERMIT SET

1" ONE INCH EQUALS FULL SCALE
8/7/2026 11:42:45 AM Autodesk Docs://P3116 Clackamas River Water/P3116_ARCH_R26.rvt



1 D1.20 DEMO SECOND FLOOR PLAN
1/4" = 1'-0"



2 D1.20 DEMO SECOND FLOOR PLAN - NORTH WING
1/4" = 1'-0"

DEMO PLAN GENERAL NOTES

A. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND TECHNOLOGY DRAWINGS FOR FULL SCOPE OF MEP DEMOLITION. ONLY SHOWN ON ARCHITECTURAL DRAWINGS FOR REFERENCE. PATCHING AND INFILL OF FLOORS, WALLS, CEILINGS, AND ROOF ASSEMBLIES AFFECTED BY MEP DEMOLITION IS INCLUDED IN THE SCOPE OF WORK, WHETHER OR NOT INDICATED. MATCH ADJACENT CONSTRUCTION AND MAINTAIN ALL REQUIRED FIRE-RESISTANCE RATINGS.

B. ALL EXISTING BUILDING COLUMNS AND STRUCTURAL MEMBERS TO REMAIN, U.N.O. CONTRACTOR TO SCAN CONCRETE SLAB FOR REBAR PRIOR TO CORE DRILLING.

C. OBTAIN DEMOLITION PERMITS AND INCLUDE ALL COSTS OF SAME IN CONTRACT PRICE.

D. CONTRACTOR SHALL MAINTAIN CONSTRUCTION AREA(S) FREE OF DUST AND DEBRIS FOR THE DURATION OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR DISPOSAL OR REMOVAL OF ALL DEBRIS AND MISCELLANEOUS MATERIALS. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION AREA(S) SHALL BE LEFT IN "BROOM CLEAN" CONDITION.

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F. WHERE INTERIOR PARTITIONS, COLUMN FURRING, FIXTURES, CABINETRY, DOORS AND DOOR FRAMES, ARE SCHEDULED FOR REMOVAL, DISPOSE OF ALL DEBRIS AND PATCH FLOOR AND WALLS AS REQUIRED. PREPARE ALL WALL, CEILING, AND FLOOR SURFACES FOR NEW FINISHES U.N.O. TYPICAL THROUGHOUT ENTIRE SPACE.

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J. EXISTING ELEMENTS SHOWN ON PLANS ARE BASED ON AS-BUILT DRAWINGS AND NON-DESTRUCTIVE SITE OBSERVATION. FIELD VERIFY LOCATIONS, QUANTITIES AND CONFIGURATIONS OF EXISTING ELEMENTS. NOTIFY PROJECT TEAM IF EXISTING CONDITIONS ARE MATERIALLY DIFFERENT THAN WHAT IS SHOWN ON FLOOR PLANS. MARK MATERIAL DIFFERENCES DISCOVERED ON CONTRACTOR RED-LINED AS BUILTS.

K. REFER TO MEPT DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE NOT ADDRESSED BY ARCHITECTURAL DEMOLITION DRAWINGS.

L. COORDINATE ALL WORK WITH THE OWNER'S VENDORS RESPONSIBLE FOR ELECTRICAL, SCADA, FIRE ALARM, SECURITY, TELECOMMUNICATIONS, AND OTHER LOW-VOLTAGE SYSTEMS.

DEMO PLAN LEGEND

- (E) WALL TO BE DEMOLISHED
- (E) CONC WALL TO REMAIN
- (E) CMU WALL TO REMAIN
- ELEMENT TO BE DEMOLISHED
- SIDE OF (E) WALL FINISH TO BE DEMOLISHED
- (E) CONC COLUMN TO REMAIN
- (E) FLOOR FINISH TO BE DEMOLISHED TO (E) SLAB
- (E) CONC SLAB TO BE DEMOLISHED
- (E) 4" RAISED CONC BASE TO BE DEMOLISHED

KEYNOTES

1 DEMO DOOR AND FRAME
2 DEMO WINDOW
3 DEMO CASEWORK
4 REMOVE LOCKERS AND SALVAGE TO OWNER
5 DEMO BENCH
6 REMOVE ALL WALL-MTD RR ACCESSORIES AND SALVAGE TO OWNER
7 DEMO BACKSPLASH AND ELEC OUTLETS. CAP CONDUIT AND PREP FOR INSTALLATION OF (N) CASEWORK; SEE ELEC FOR FURTHER INFO
8 PROTECT EQUIPMENT DURING WORK
9 REMOVE EQUIPMENT AND SALVAGE TO OWNER. DEMO CASEWORK
10 DEMO FLOOR FINISH ON STAIRS; STAIR TO REMAIN
11 DEMO HANDRAIL
12 DEMO GUARDRAIL
13 GUARDRAILS TO REMAIN
14 REMOVE CASEWORK AND PREP FOR REINSTALLATION
15 REMOVE TV AND PREP FOR REINSTALLATION
16 REMOVE REFRIGERATOR AND PREP FOR REINSTALLATION
17 REMOVE WALL-MTD AED AND PREP FOR REINSTALLATION
18 REMOVE PLC CABINET AND SALVAGE TO OWNER. COORDINATE REMOVAL OF COMM CABINETS W/ OWNER; REMOVAL BY OTHERS. SEE MEPT DRAWINGS FOR FURTHER INFO
19 PORTION OF CONC PAD TO REMAIN FOR REMAINING CABINET. COORDINATE SIZE W/ OWNER
20 DEMO WALL FINISH DOWN TO STUDS. REMOVE ALL WALL-MTD ITEMS. COORDINATE W/ OWNER VENDOR
21 RECONFIGURE PIPING AS REQ'D TO INSTALL (N) WALL (BY OWNER). SEE MEPT DRAWINGS FOR FURTHER INFO
22 DEMO HSS COLUMN AND HORIZONTAL FRAME, HEAD AND SILL. CUT DOWN ANCHOR BOLTS FLUSH W/ CONC FLOOR AND BEAMS, TYP
23 SAND AND PREP SLAB FOR (N) SELF-LEVELING UNDERLAYMENT TREATMENT
24 GRIND EPOXY FLOORING AS REQ'D TO ACCEPT (N) EPOXY PER MFR'S INSTRUCTIONS
25 DEMO EDGE METAL FLASHING
26 DEMO MECH UNIT AND WD CURBS. SEE MECH
27 DEMO ROOFTOP FAN UNIT, PROTECT IN PLACE (E) WOOD CURB AND ROOF FLASHING AND PREP FOR (N) ROOFTOP UNIT. SEE MECH
28 DECOMMISSION PAC FEED HOPPER (BY OWNER)
29 DEMO EDGE METAL FLASHING OVER ROOFING

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Clackamas River Water

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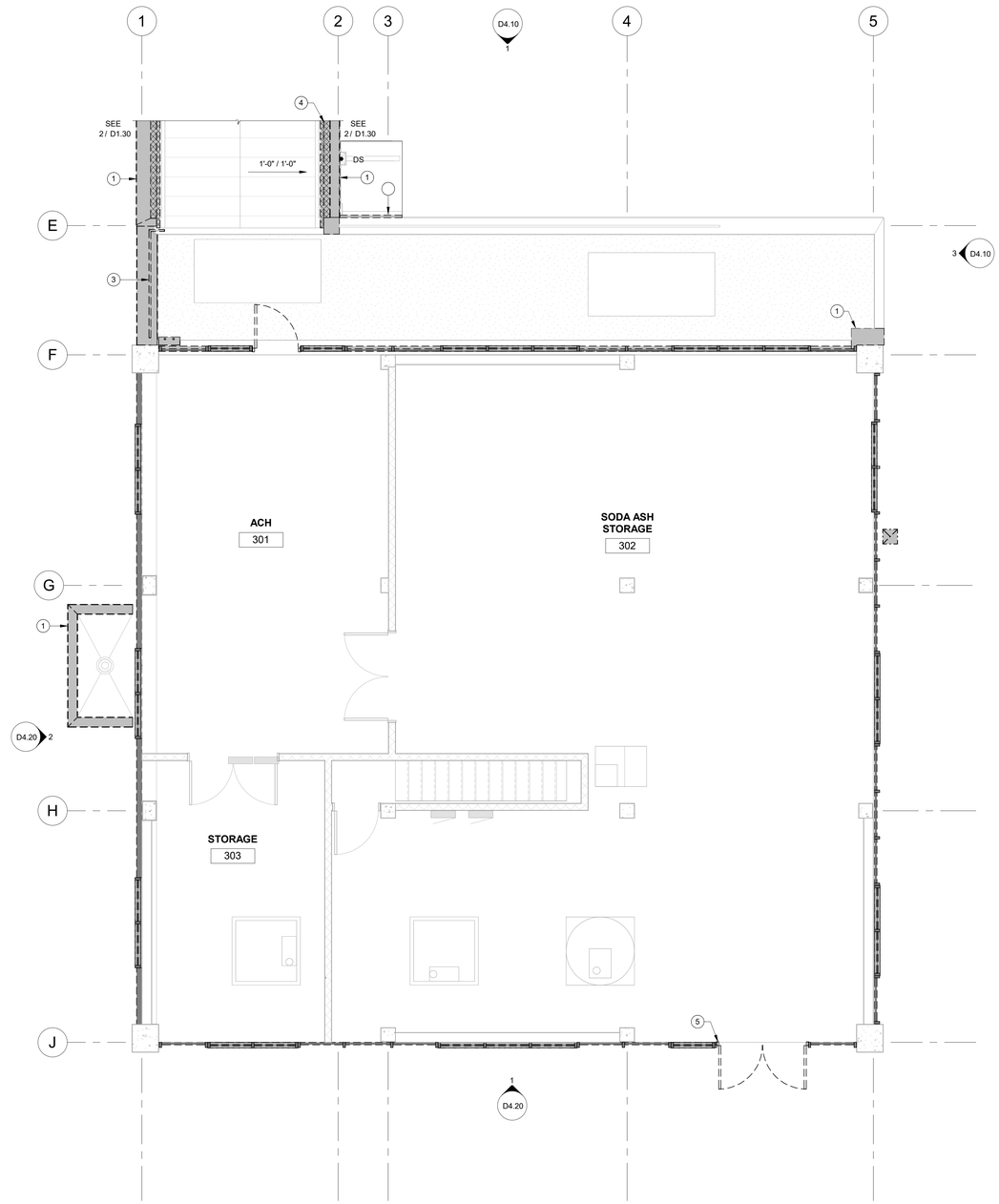
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DEMO SECOND FLOOR PLAN

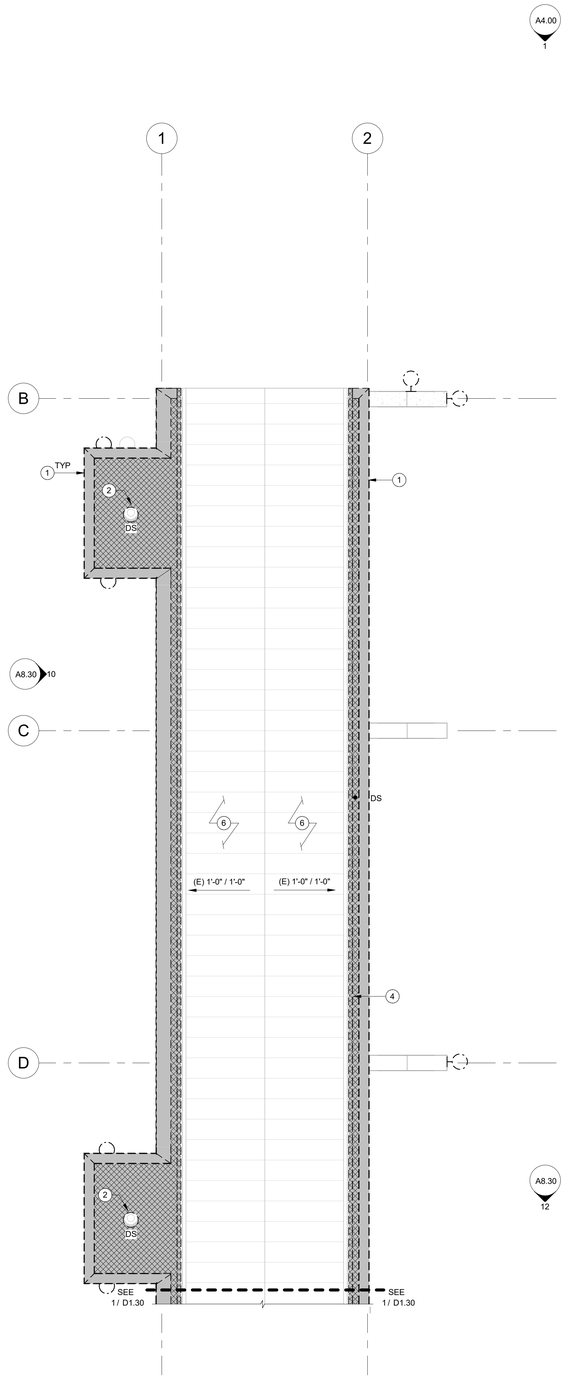
D1.20

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE
8/7/2026 11:42:46 AM Autodesk Docs://P3116 Clackamas River Water/P3116_ARCH_R26.rvt



1 D1.30 DEMO THIRD FLOOR PLAN
1/4" = 1'-0"



2 D1.30 DEMO ROOF PLAN - CONFERENCE ROOM
1/4" = 1'-0"

DEMO PLAN GENERAL NOTES

A. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND TECHNOLOGY DRAWINGS FOR FULL SCOPE OF MEP DEMOLITION. ONLY SHOWN ON ARCHITECTURAL DRAWINGS FOR REFERENCE. PATCHING AND INFILL OF FLOORS, WALLS, CEILINGS, AND ROOF ASSEMBLIES AFFECTED BY MEP DEMOLITION IS INCLUDED IN THE SCOPE OF WORK, WHETHER OR NOT INDICATED. MATCH ADJACENT CONSTRUCTION AND MAINTAIN ALL REQUIRED FIRE-RESISTANCE RATINGS.

B. ALL EXISTING BUILDING COLUMNS AND STRUCTURAL MEMBERS TO REMAIN, U.N.O. CONTRACTOR TO SCAN CONCRETE SLAB FOR REBAR PRIOR TO CORE DRILLING.

C. OBTAIN DEMOLITION PERMITS AND INCLUDE ALL COSTS OF SAME IN CONTRACT PRICE.

D. CONTRACTOR SHALL MAINTAIN CONSTRUCTION AREA(S) FREE OF DUST AND DEBRIS FOR THE DURATION OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR DISPOSAL OR REMOVAL OF ALL DEBRIS AND MISCELLANEOUS MATERIALS. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION AREA(S) SHALL BE LEFT IN "BROOM CLEAN" CONDITION.

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F. WHERE INTERIOR PARTITIONS, COLUMN FURRING, FIXTURES, CABINETRY, DOORS AND DOOR FRAMES, ARE SCHEDULED FOR REMOVAL, DISPOSE OF ALL DEBRIS AND PATCH FLOOR AND WALLS AS REQUIRED. PREPARE ALL WALL, CEILING, AND FLOOR SURFACES FOR NEW FINISHES U.N.O. TYPICAL THROUGHOUT ENTIRE SPACE.

G. IN ADDITION TO SPECIFIC DEMOLITION SCOPE IDENTIFIED, PERFORM MISCELLANEOUS DEMOLITION AS REQUIRED TO SUPPORT NEW CONSTRUCTION.

H. NO EXISTING SMOKE DETECTOR, FIRE ALARM BOX OR SIMILAR DEVICE, INCLUDING THE ASSOCIATED WIRING SHALL BE DAMAGED DURING DEMOLITION AND SUBSEQUENT CONSTRUCTION.

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K. REFER TO MEPT DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE NOT ADDRESSED BY ARCHITECTURAL DEMOLITION DRAWINGS.

L. COORDINATE ALL WORK WITH THE OWNER'S VENDORS RESPONSIBLE FOR ELECTRICAL, SCADA, FIRE ALARM, SECURITY, TELECOMMUNICATIONS, AND OTHER LOW-VOLTAGE SYSTEMS.

DEMO PLAN LEGEND

- (E) WALL TO BE DEMOLISHED
- (E) CONC WALL TO REMAIN
- (E) CMU WALL TO REMAIN
- ELEMENT TO BE DEMOLISHED
- SIDE OF (E) WALL FINISH TO BE DEMOLISHED
- (E) CONC COLUMN TO REMAIN
- (E) FLOOR FINISH TO BE DEMOLISHED TO (E) SLAB
- (E) CONC SLAB TO BE DEMOLISHED
- (E) 4" RAISED CONC BASE TO BE DEMOLISHED

DEMO ROOF PLAN LEGEND

- (E) MEMBRANE ROOFING
- (E) METAL ROOFING
- (E) MEMBRANE ROOFING TO BE DEMOLISHED AND CONCRETE SURFACE TO BE SANDED AND PREPPED AS REQ'D PER TRAFFIC COATING MFR INSTRUCTIONS
- INDICATES ITEM TO BE DEMOLISHED
- INDICATES ROOF STEP
- DS (E) ROOF DRAIN
- ROOF SLOPE (ALWAYS INDICATES DOWN)

KEYNOTES

DEMO EDGE METAL FLASHING, PROTECT IN PLACE (E) METAL FLASHING OVER EXISTING METAL ROOF
1 DEMO SHEET METAL COPING
2 REMOVE DRAIN BASKET ON (E) ROOF DRAIN, PRIME AND PREP (E) METAL OUTLET TUBE PER FLUID-APPLIED WATERPROOFING MFR WRITTEN INSTRUCTIONS
3 REMOVE GUARDRAIL AND PREP FOR REINSTALLATION
4 DEMO EDGE METAL FLASHING
5 REMOVE DOOR AND PREP FOR REINSTALLATION. DEMO FRAME
6 PREP MTL ROOFING FOR (N) PAINT

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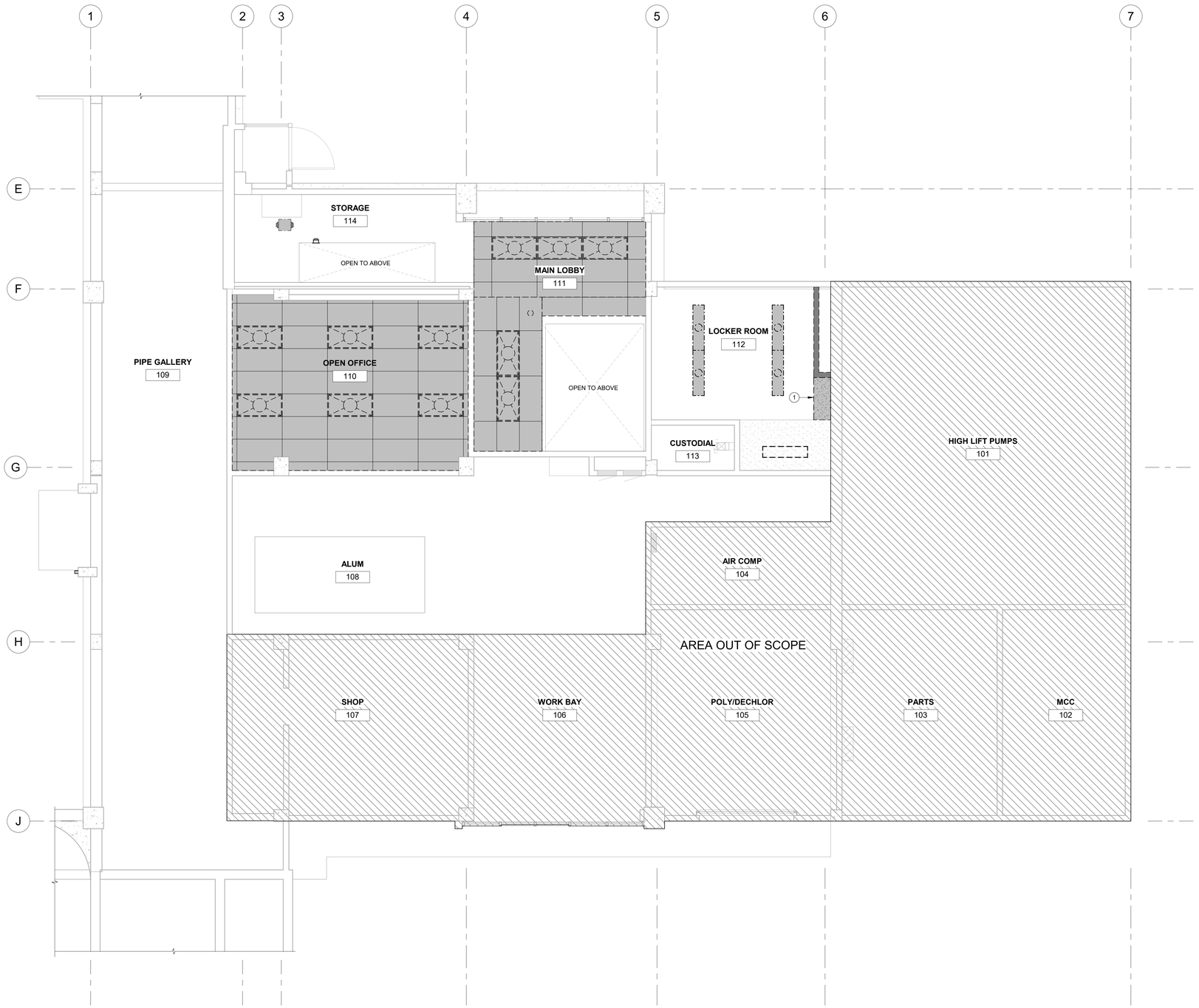
DEMO THIRD FLOOR AND ROOF PLANS

D1.30

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

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1 D2.10 DEMO REFLECTED CEILING PLAN - FIRST FLOOR
1/4" = 1'-0"

DEMO RCP GENERAL NOTES

A. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND TECHNOLOGY DRAWINGS FOR FULL SCOPE OF MEP DEMOLITION. ONLY SHOWN IN ARCHITECTURAL DRAWINGS FOR REFERENCE. PATCHING AND INFILL OF FLOORS, WALLS, CEILINGS, AND ROOF ASSEMBLIES AFFECTED BY MEP DEMOLITION IS INCLUDED IN THE SCOPE OF WORK, WHETHER OR NOT INDICATED. MATCH ADJACENT CONSTRUCTION AND MAINTAIN ALL REQUIRED FIRE-RESISTANCE RATINGS.

B. ALL EXISTING BUILDING COLUMNS, EXTERIOR WALLS AND STRUCTURAL MEMBERS TO REMAIN, U.N.O.

C. OBTAIN DEMOLITION PERMITS AND INCLUDE ALL COSTS OF SAME IN CONTRACT PRICE.

D. CONTRACTOR SHALL MAINTAIN CONSTRUCTION AREA(S) FREE OF DUST AND DEBRIS FOR THE DURATION OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR DISPOSAL OR REMOVAL OF ALL DEBRIS AND MISCELLANEOUS MATERIALS. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION AREA(S) SHALL BE LEFT IN "BROOM CLEAN" CONDITION

E. FURNISH ALL LABOR AND MATERIALS/EQUIPMENT TO COMPLETE DEMOLITION AND REMOVAL OF ALL ITEMS AS INDICATED. PATCH AND REPAIR INTERIOR SPACE AS REQUIRED UPON COMPLETION OF DEMOLITION. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, CLARIFY THE POINT IN QUESTION WITH PROJECT TEAM BEFORE PROCEEDING.

F. IN PARTITIONS TO BE REMOVED, REMOVE AND CAP ALL OUTLETS, SWITCHES, WIRES, THERMOSTATS, ETC., TO THEIR SOURCE.

G. WHERE INTERIOR PARTITIONS, COLUMN FURRING, FIXTURES, CABINETRY, DOORS AND DOOR FRAMES, ARE SCHEDULED FOR REMOVAL, DISPOSE OF ALL DEBRIS AND PATCH FLOOR AND WALLS AS REQUIRED. PREPARE SURFACES FOR NEW FINISHES U.N.O. TYPICAL THROUGHOUT ENTIRE SPACE.

H. REMOVE ALL ABANDONED ELECTRICAL CONDUIT, CABLING BACKBOARD AND EQUIPMENT, TYPICAL THROUGHOUT ENTIRE SPACE.

I. IN ADDITION TO SPECIFIC DEMOLITION SCOPE IDENTIFIED, PERFORM MISCELLANEOUS DEMOLITION AS REQUIRED TO SUPPORT NEW CONSTRUCTION.

J. NO EXISTING SMOKE DETECTOR, FIRE ALARM BOX OR SIMILAR DEVICE, INCLUDING THE ASSOCIATED WIRING SHALL BE DAMAGED DURING DEMOLITION AND SUBSEQUENT CONSTRUCTION.

K. RELOCATION OF SMOKE DETECTORS, AND FIRE ALARM EQUIPMENT, NECESSITATED BY NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIORITY, AND PER THE PLANS. NO ACTIVE SMOKE DETECTOR SHALL BE PERMANENTLY COVERED OR OTHERWISE REMOVED OR USED FOR OTHER THAN ITS INTENDED PURPOSE. REMOVE TEMPORARY COVERS DAILY.

L. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT PERTAINING TO DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WITH OWNER/TENANT AND PROJECT TEAM.

L. EXISTING ELEMENTS SHOWN ON PLANS IS BASED ON AS-BUILT DRAWINGS AND NON-DESTRUCTIVE SITE OBSERVATION. FIELD VERIFY LOCATIONS, QUANTITIES AND CONFIGURATIONS OF EXISTING ELEMENTS. NOTIFY PROJECT TEAM IF EXISTING CONDITIONS ARE MATERIALLY DIFFERENT THAN WHAT IS SHOWN ON FLOOR PLANS. MARK MATERIAL DIFFERENCES DISCOVERED ON CONTRACTOR RED-LINED AS BUILTS.

DEMO RCP LEGEND

- (E) CEILING TO BE DEMOLISHED
- (E) GYP BD CEILING
- (E) ACT CEILING
- (E) WALL TO BE DEMOLISHED
- (E) CEILING BEAM TO REMAIN
- ELEMENT TO BE DEMOLISHED
- (E) LIGHTING
- (E) HVAC REGISTER
- (E) EXIT PLACARD

(#) KEYNOTES

1 DEMO PORTION OF GYP BD SOFFIT

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WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
For the STATE OF OREGON

△	DESCRIPTION	DATE:

PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

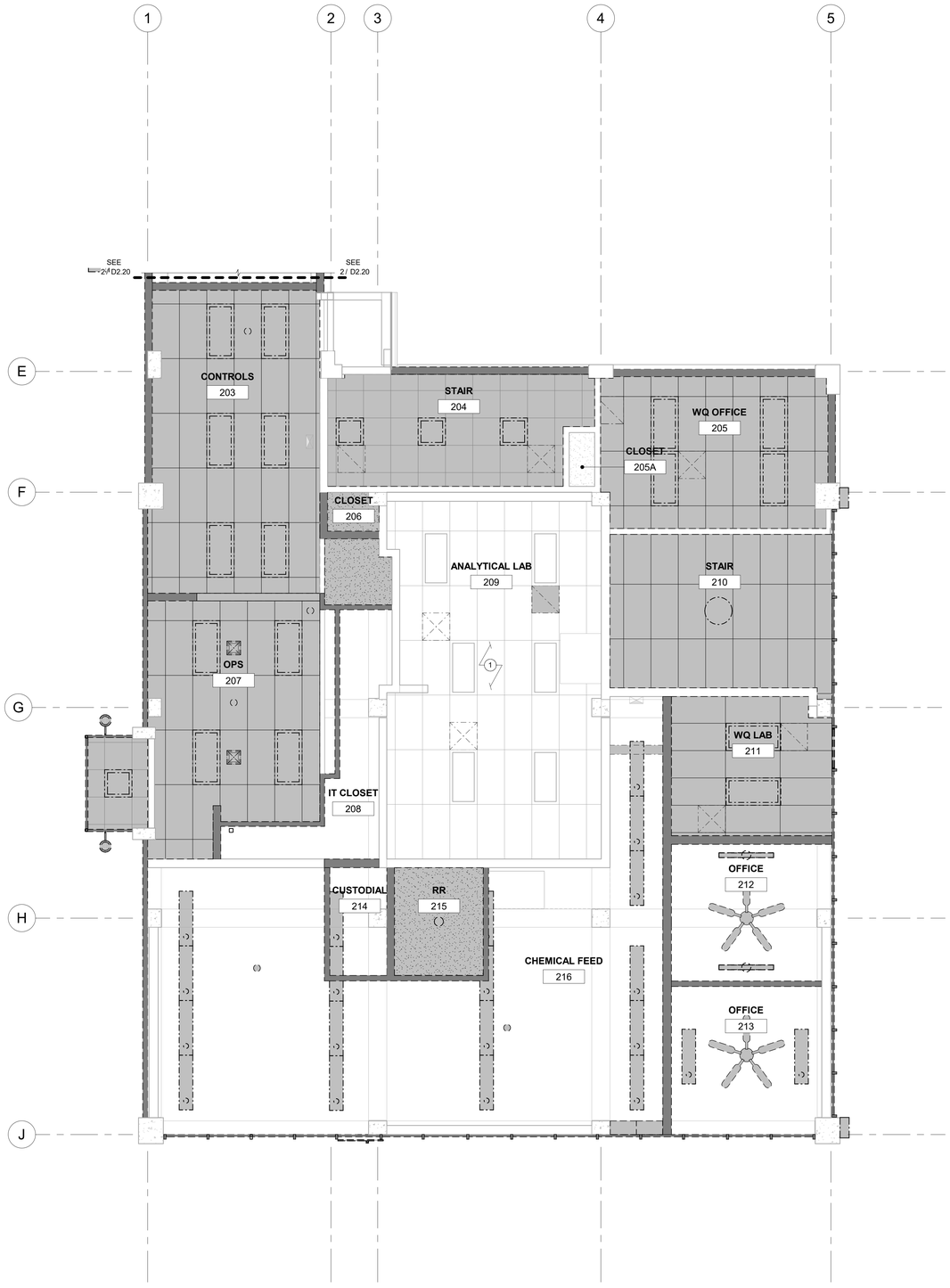
DEMO FIRST FLOOR REFLECTED CEILING PLAN

D2.10

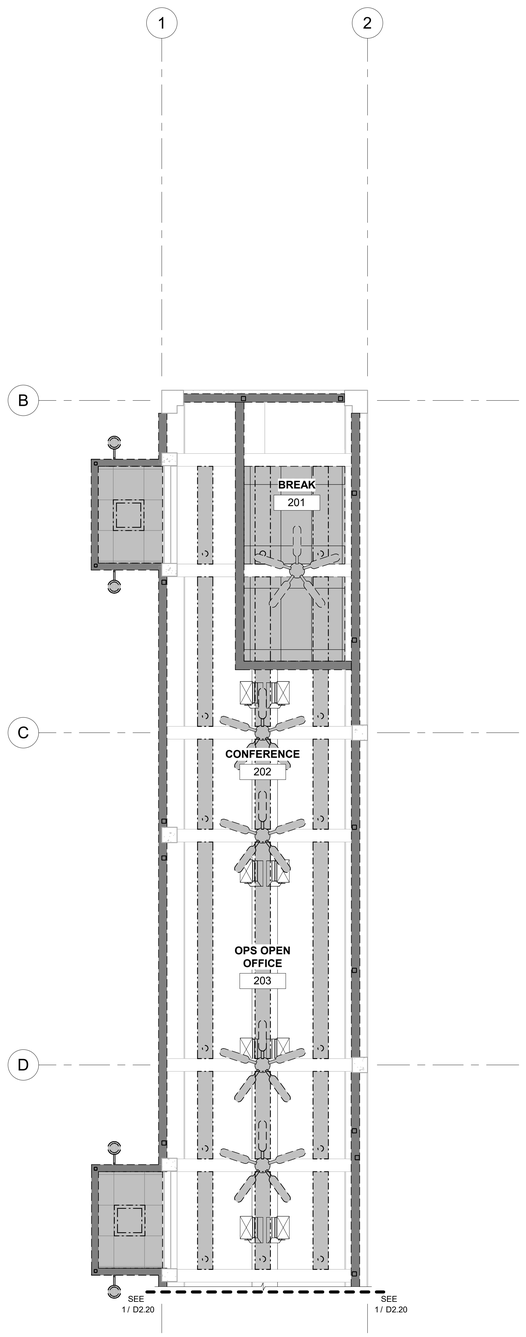
BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

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1 D2.20 DEMO REFLECTED CEILING PLAN - SECOND FLOOR
1/4" = 1'-0"



2 D2.20 DEMO REFLECTED CEILING PLAN - NORTH WING
1/4" = 1'-0"

DEMO RCP GENERAL NOTES

A. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND TECHNOLOGY DRAWINGS FOR FULL SCOPE OF MEP DEMOLITION. ONLY SHOWN IN ARCHITECTURAL DRAWINGS FOR REFERENCE. PATCHING AND INFILL OF FLOORS, WALLS, CEILINGS, AND ROOF ASSEMBLIES AFFECTED BY MEP DEMOLITION IS INCLUDED IN THE SCOPE OF WORK, WHETHER OR NOT INDICATED. MATCH ADJACENT CONSTRUCTION AND MAINTAIN ALL REQUIRED FIRE-RESISTANCE RATINGS.

B. ALL EXISTING BUILDING COLUMNS, EXTERIOR WALLS AND STRUCTURAL MEMBERS TO REMAIN, U.N.O.

C. OBTAIN DEMOLITION PERMITS AND INCLUDE ALL COSTS OF SAME IN CONTRACT PRICE.

D. CONTRACTOR SHALL MAINTAIN CONSTRUCTION AREA(S) FREE OF DUST AND DEBRIS FOR THE DURATION OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR DISPOSAL OR REMOVAL OF ALL DEBRIS AND MISCELLANEOUS MATERIALS. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION AREA(S) SHALL BE LEFT IN "BROOM CLEAN" CONDITION

E. FURNISH ALL LABOR AND MATERIALS/EQUIPMENT TO COMPLETE DEMOLITION AND REMOVAL OF ALL ITEMS AS INDICATED. PATCH AND REPAIR INTERIOR SPACE AS REQUIRED UPON COMPLETION OF DEMOLITION. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, CLARIFY THE POINT IN QUESTION WITH PROJECT TEAM BEFORE PROCEEDING.

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DEMO RCP LEGEND

- (E) CEILING TO BE DEMOLISHED
- (E) GYP BD CEILING
- (E) ACT CEILING
- (E) WALL TO BE DEMOLISHED
- (E) CEILING BEAM TO REMAIN
- ELEMENT TO BE DEMOLISHED
- (E) LIGHTING
- (E) HVAC REGISTER
- (E) EXIT PLACARD

(#) KEYNOTES

1 REMOVE AND REINSTALL ACT PANELS AS REQ'D FOR MEPT WORK. SEE MEPT DRAWINGS FOR FURTHER INFO

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WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
STATE OF OREGON

△	DESCRIPTION	DATE:

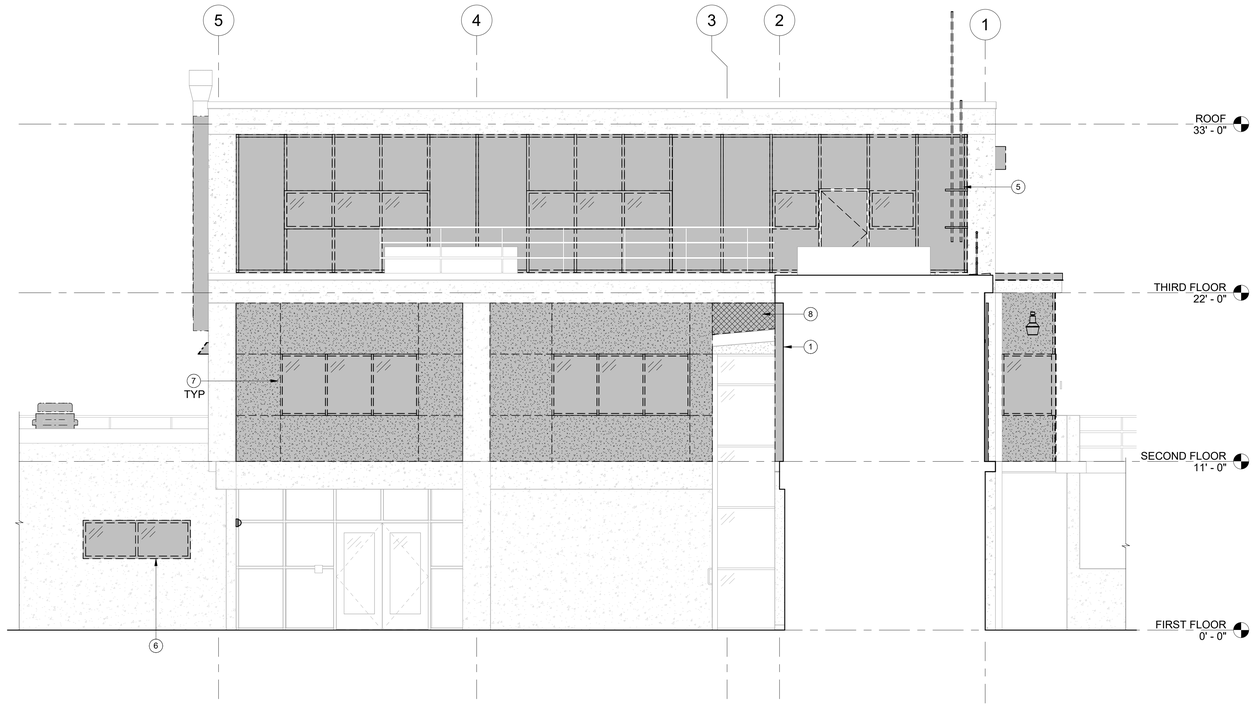
PROJECT NO.	P-3116-26
DESIGNED:	LJS
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DATE:	08-07-2026

DEMO SECOND FLOOR REFLECTED CEILING PLAN

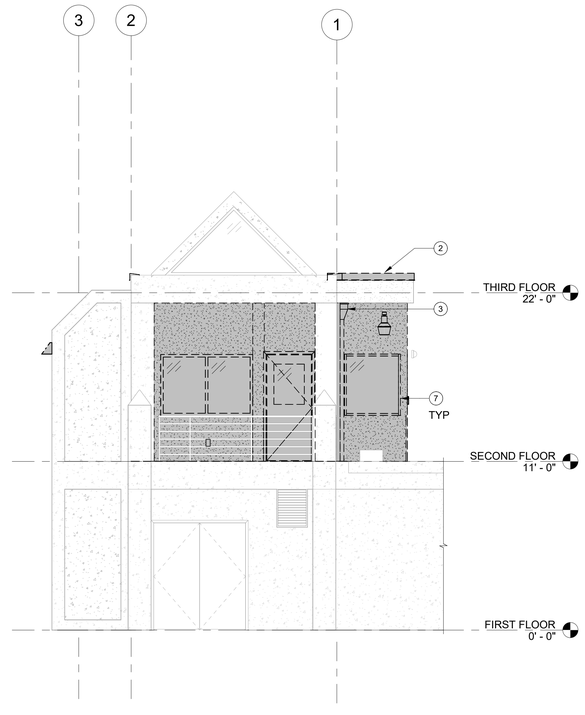
D2.20

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE
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1 D4.10 DEMO EXT ELEVATION - NORTH
1/4" = 1'-0"



2 D4.10 DEMO EXT ELEVATION - NORTH - NORTH WING
1/4" = 1'-0"

DEMO ELEVATION LEGEND

- (E) SIDING TO REMAIN. PREP FOR PAINT, TYP
- (E) CURTAIN WALL SYSTEM TO BE DEMOLISHED
- (E) EIFS SIDING TO BE DEMOLISHED
- (E) ALM LAP SIDING TO BE DEMOLISHED

KEYNOTES

1 REMOVE (E) PORTION OF SHEET METAL FLASHING AND PREP FOR REINSTALLATION
2 DEMO SHEET METAL COPING
3 DEMO PREFINISHED SHEET METAL CONDUCTOR HEAD AND DOWNSPOUT, PROTECT IN PLACE (E) DRAINAGE OUTLET AT CONCRETE FLOOR
4 PROTECT HOIST RAIL IN PLACE
5 REMOVE ANTENNA AND SUPPORT BRACKETS AND PREP FOR REINSTALLATION
6 DEMO VINYL WINDOW
7 DEMO STOREFRONT SYSTEM
8 DEMO EIFS WALL FINISH DOWN TO (E) METAL STUDS

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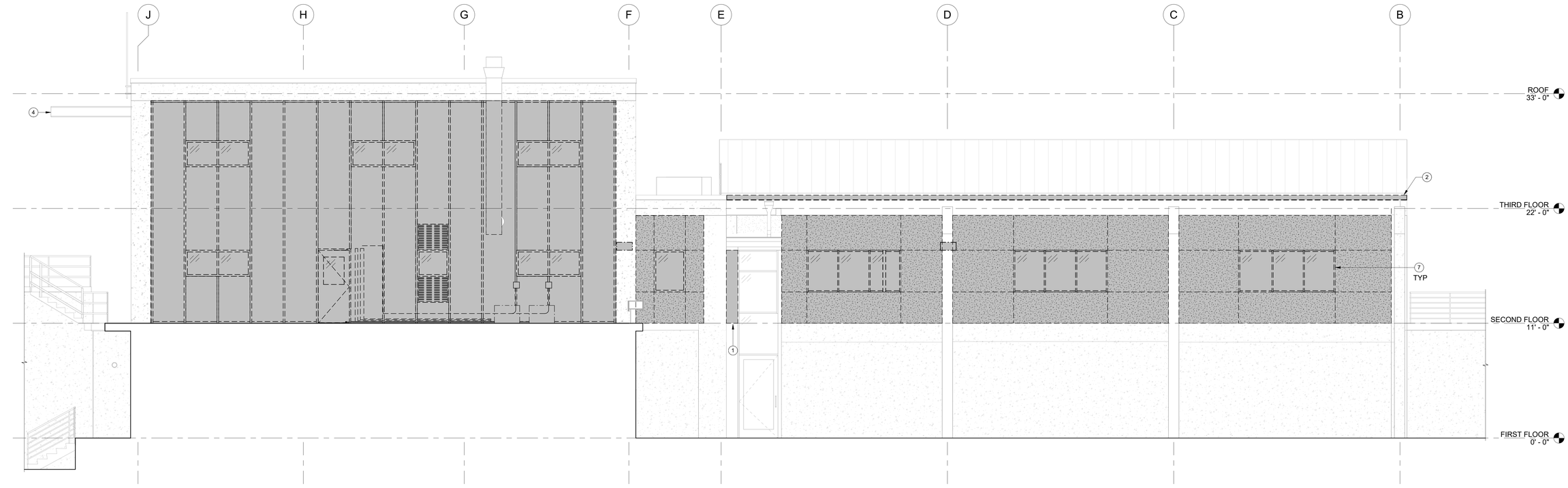
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WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water



3 D4.10 DEMO EXT ELEVATION - EAST
1/4" = 1'-0"

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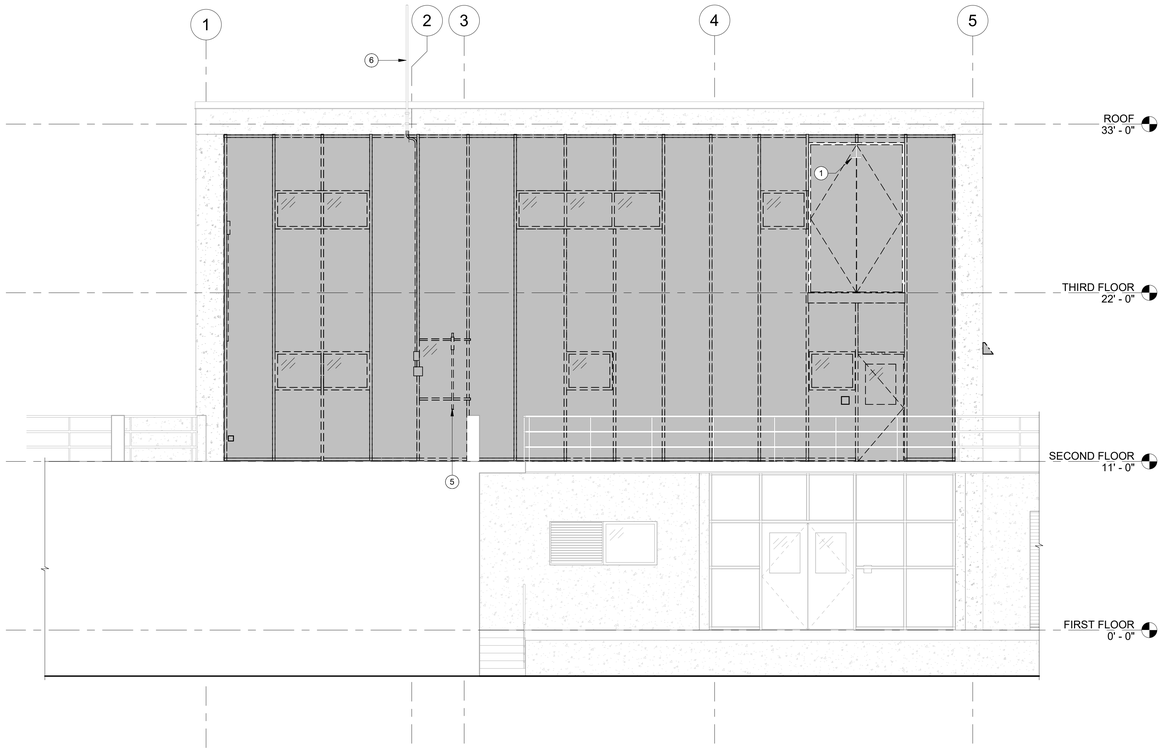
DEMO EXTERIOR ELEVATIONS

D4.10

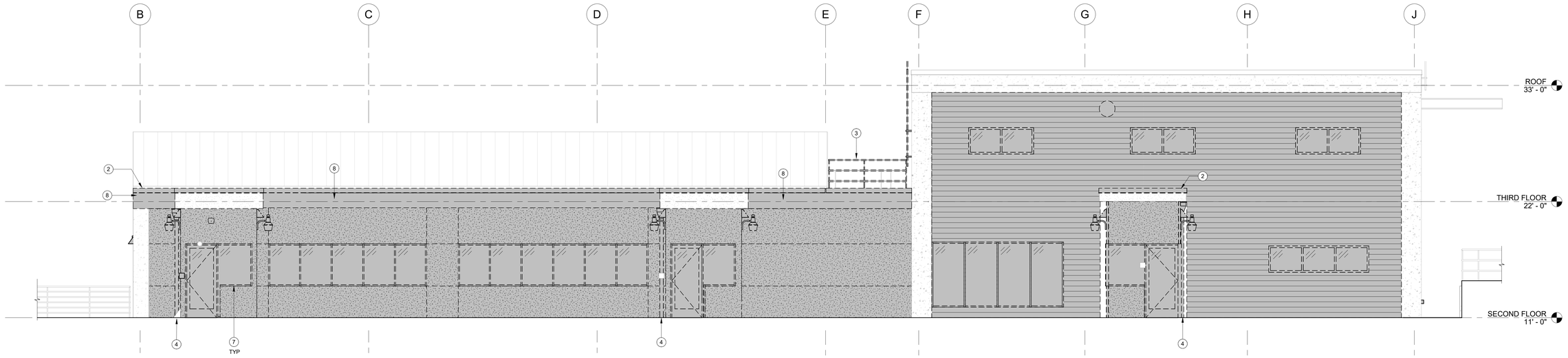
BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

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1 D4.20 DEMO EXT ELEVATION - SOUTH
1/4" = 1'-0"



2 D4.20 DEMO EXT ELEVATION - WEST
1/4" = 1'-0"

DEMO ELEVATION LEGEND

- (E) SIDING TO REMAIN. PREP FOR PAINT, TYP
- (E) CURTAIN WALL SYSTEM TO BE DEMOLISHED
- (E) EIFS SIDING TO BE DEMOLISHED
- (E) ALM LAP SIDING TO BE DEMOLISHED

KEYNOTES

1 PROTECT HOIST RAIL IN PLACE
2 DEMO SHEET METAL COPING
3 REMOVE GUARDRAIL AND PREP FOR REINSTALLATION
4 DEMO PREFINISHED SHEET METAL CONDUCTOR HEAD AND DOWNSPOUT, PROTECT IN PLACE (E) DRAINAGE OUTLET AT CONCRETE FLOOR
5 REMOVE ANTENNA AND SUPPORT BRACKETS AND PREP FOR REINSTALLATION
6 (E) ANTENNA, PROTECT IN PLACE, REMOVE (E) CONDUIT CONNECTION FOR REINSTALLATION IN CAVITY OF (N) WALL
7 DEMO STOREFRONT SYSTEM
8 DEMO PORTION OF SHEET METAL WALL FLASHING

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WTP BUILDING IMPROVEMENTS 2026

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DEMO EXTERIOR ELEVATIONS

D4.20

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE
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NOTE: ALL MATERIALS ARE BASIS OF DESIGN. SEE SPECIFICATIONS FOR FURTHER INFORMATION. SUBSTITUTIONS REQUIRE SHOP DRAWINGS AND PHYSICAL SAMPLES FOR SELECTION AND APPROVAL BY ARCHITECT / OWNER. ALLOW 15 BUSINESS DAYS FOR SELECTION.

EXTERIOR SIDING

FINISH CODE	MATERIAL	MANUFACTURER	STYLE / COLOR	SIZE / THICKNESS	INSTALLATION NOTES
FCP	FIBER CEMENT PANEL	JAMES HARDIE	ARCHITECTURAL PANEL / PAINT PT3	48" x 96" x 5/16"	-

CEILING FINISHES

FINISH CODE	MATERIAL	MANUFACTURER	STYLE / COLOR	SIZE / NRC RATING	INSTALLATION NOTES
ACT1	ACOUSTICAL CEILING TILE	ARMSTRONG	DUNE LAY-IN TEGULAR 1775 / WHITE	24" x 24" x 5/8" / 0.50	9/16" SUPRAFINE XL SUSPENSION SYSTEM
ACT2	ACOUSTICAL CEILING TILE	ARMSTRONG	FINE FISSURED HIGH NRC 1754 / WHITE	24" x 24" x 7/8" / 0.75	15/16" PRELUDE SUSPENSION SYSTEM
BAF	ACOUSTICAL BAFFLE	CSI CREATIVE	SINGLE BAFFLES 001 / COLOR TBD	3/4" T / LENGTH PER PLAN	SPACE 6" OC

PAINT / WALL FINISHES

FINISH CODE	MATERIAL	MANUFACTURER	STYLE / COLOR	FINISH SIZE / SHEEN	INSTALLATION NOTES
CG1	CORNER GUARD, 3-1/2" WING	INPRO	SURFACE MOUNT STAINLESS STEEL	3-1/2" WING, 48" H	MOUNT ABOVE WALL BASE. ADHERE TO SURFACE. SEE FINISH PLANS FOR LOCATIONS
CG2	CORNER GUARD, 1-1/2" WING	INPRO	SURFACE MOUNT STAINLESS STEEL	1-1/2" WING, 48" H	MOUNT ABOVE WALL BASE. ADHERE TO SURFACE. SEE FINISH PLANS FOR LOCATIONS
FRP	FIBER REINFORCED PLASTIC	CRANE COMPOSITES	GLASBORD FIRE-X CLASS 'A', SMOOTH TEXTURE / WHITE 85	0.12" T, 48" H	PROVIDE MFR'S STANDARD EDGE METAL TRIM
PT1	PAINT	SHERWIN WILLIAMS	SW 9623 SNOWBELT	SEE SPECS	-
PT2	PAINT	SHERWIN WILLIAMS	SW 6223 STILL WATER	SEE SPECS	-
PT3	PAINT	SHERWIN WILLIAMS	SW 7642 PAVESTONE	SEE SPECS	-
PT4	PAINT	SHERWIN WILLIAMS	SW 7069 IRON ORE	SEE SPECS	-
PT5	PAINT	SHERWIN WILLIAMS	SW 7605 GALE FORCE	SEE SPECS	-
PT6	PAINT	SHERWIN WILLIAMS	SW 6258 TRICORN BLACK	SEE SPECS	-
TL1	CERAMIC WALL TILE	DALTILE	LUMINIQUE / HANDCRAFTED WALL TILE / ARCTIC WHITE	12" x 24" / GLOSSY	INSTALL IN REGULAR GRID PATTERN. RUN TILE HORIZONTALLY
TL2	CERAMIC WALL TILE	DALTILE	REMEDY / HANDCRAFTED WALL TILE / HYDRO RD22	2" x 10" / GLOSSY	INSTALL IN REGULAR GRID PATTERN. RUN TILE VERTICALLY
WSP	WOOD SLAT PANEL	WOODUPP	AKUPANEL / ENGLISH OAK	-	INSTALL ON WALL FULL HEIGHT

WALL BASE

FINISH CODE	MATERIAL	MANUFACTURER	STYLE / COLOR	SIZE / THICKNESS	INSTALLATION NOTES
RB1	RUBBER BASE	JOHNSONITE	BASEWORKS THERMOSET / BLACK 40	4" H / 0.45" T	-
TB1	TILE BASE	DALTILE	PORTFOLIO / COLORBODY COVE BASE P36C9 / CHARCOAL	6" H x 12" L	ALIGN BASE GROUT LINES W/ GROUT LINES OF TILE FLOOR TL3

FLOORING FINISHES

FINISH CODE	MATERIAL	MANUFACTURER	STYLE / COLOR	SIZE	INSTALLATION NOTES
CPT	CARPET TILE	MOHAWK GROUP	REWILDED REFUGE / HIDDEN LANDSCAPE / COLOR TBD	12" x 36"	-
EPX1	EPOXY	TBD	TBD	TBD	WRAP UP WALL 4"
RUB	RUBBER TILE FLOORING	INTERFACE	NORAMENT ARAGO / CALM	39-1/2" x 19-3/4"	INSTALL W/ 4" INTEGRAL COVE BASE
ID	INTERLOCKING FLOOR DECKING	NEW TECH WOOD	ULTRASHIELD DECK TILE	12" x 12"	-
RS	RESILIENT SHEET FLOORING	SHAW CONTRACT	TRACTION SOLE / ABBUNDANCE	0.079" T	INSTALL W/ 4" INTEGRAL COVE BASE
SDF	STATIC DISSIPATING FLOORING	TARKETT	IQ GRANT SD ROLLS / BLACK GREY	6'-6" x 75'-6"	-
STR	STAIR TREAD	INTERFACE	NORAMENT ARAGO / CALM	(E) TREAD SIZE	-
TL3	CERAMIC FLOOR TILE	DALTILE	PORTFOLIO / COLORBODY / CHARCOAL	24" x 24"	INSTALL IN REGULAR GRID PATTERN

CASEWORK FINISHES

FINISH CODE	MATERIAL	MANUFACTURER	STYLE / COLOR	INSTALLATION NOTES
PL1	PLASTIC LAMINATE, VERTICAL	WILSONART	PASADENA OAK 7986-38	INSTALL GRAIN IN VERTICAL PATTERN
PL2	PLASTIC LAMINATE, VERTICAL	WILSONART	BLACK 1595-12	INSTALL GRAIN IN VERTICAL PATTERN
SS	SOLID SURFACE COUNTERTOP	CORIAN	SOLID SURFACE / DEEP NIGHT SKY	-
EPX2	EPOXY COUNTERTOP	DURCON	EPOXY RESIN / BLACK ONYX	-

MISC.

FINISH CODE	MATERIAL	MANUFACTURER	STYLE / COLOR	OPTIONS / NOTES	INSTALLATION NOTES
BN1	BENCH	SCRANTON	TUFFTEC, 42" x 24" x 16" / BLACK	-	INSTALL PER ADA STANDARDS
BN2	BENCH	SCRANTON	TUFFTEC, 36" x 9.5" x 16" / BLACK	-	-
LK	HDPE LOCKER	SCRANTON	TUFFTEC, SINGLE TIER, 15" x 18" x 72" / BLACK	DOUBLE PRONG BLACK HOOK	-
RS1	ROLLER SHADES, BLACKOUT	DRAPER	LIGHTBLOC MANUAL FLEXSHADE / FASCIA COLOR BLACK, SHADE COLOR TO MATCH OYSTER	-	FASCIA LENGTH TO MATCH WINDOW WIDTH
RS2	ROLLER SHADES, 1% OPEN	DRAPER	CLUTCH-OPERATED FLEXSHADE / FASCIA COLOR BLACK, SHADE COLOR OYSTER SW2701-P14	-	FASCIA LENGTH TO MATCH WINDOW WIDTH
RS3	ROLLER SHADES, 5% OPEN	DRAPER	CLUTCH-OPERATED FLEXSHADE / FASCIA COLOR BLACK, SHADE COLOR OYSTER SW2705-P14	-	FASCIA LENGTH TO MATCH WINDOW WIDTH

TRANSITIONS

FINISH CODE	TRANSITION TYPE	MANUFACTURER	PRODUCT / SIZE	FINISH	INSTALLATION NOTES
TR1	EPOXY TO RUB	SCHLUTER	VINPRO-U / 4MM	BRUSHED NICKEL	-
TR2	EPOXY TO CARPET	SCHLUTER	VINPRO-U / 3MM	BRUSHED NICKEL	-
TR3	RUB TO CARPET	SCHLUTER	VINPRU-S / 3MM	BRUSHED NICKEL	-
TR4	RUB TO TILE	SCHLUTER	VINPRO-U / 9MM	BRUSHED NICKEL	-
TR5	RUB TO RESILIENT SHEET	SCHLUTER	RENO-T / 14MM	STAIN NICKEL ANODIZED	-
TR6	EXT TO INT	NATIONAL GUARD	SADDLE THRESHOLD / 32" OR 36"; SEE DOOR HW SCHED	ALUMINUM	-

RESTROOM ACCESSORIES SCHEDULE

FINISH CODE	TYPE	MANUFACTURER	STYLE / COLOR / PRODUCT #'S	PRODUCT NOTES / SIZE	INSTALLATION NOTES
GB	GRAB BARS	BOBRICK	B-6806x18, x36, x42	18", 36", 42"	INSTALL PER ADA STANDARDS. SEE SHEETS G2.00 AND G2.10
HK	ROBE HOOK	BOBRICK	B-76727	2" x 3-15/16" x 1-7/8"	INSTALL PER ADA STANDARDS. SEE SHEETS G2.00 AND G2.10
MR	MIRROR	BOBRICK	B-165 2436	24" x 36"	INSTALL PER ADA STANDARDS. SEE SHEETS G2.00 AND G2.10
SND	SANITARY NAPKING DISPOSAL	BOBRICK	B-270	7-1/2" x 10" x 3-13/16"	INSTALL PER ADA STANDARDS. SEE SHEETS G2.00 AND G2.10
WR	WASTE RECEPTACLE	BOBRICK	B-279	14" x 18" x 6"	INSTALL PER ADA STANDARDS. SEE SHEETS G2.00 AND G2.10
TP	TOLIET PAPER DISPENSER	-	OFCI	-	INSTALL PER ADA STANDARDS. SEE SHEETS G2.00 AND G2.10
PT	PAPER TOWEL DISPENSOR	-	OFCI	-	INSTALL PER ADA STANDARDS. SEE SHEETS G2.00 AND G2.10
SP	SOAP DISPENSER	-	OFCI	-	INSTALL PER ADA STANDARDS. SEE SHEETS G2.00 AND G2.10

WALL ASSEMBLIES

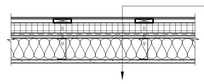
SCALE: 1" = 1'-0"

(#) INDICATES ASSEMBLY FOOTNOTE
(#) INDICATES ASSEMBLY TYPE

GENERAL ASSEMBLY NOTES:
A. PROVIDE BLOCKING AS REQUIRED TO SECURE WALL HUNG COMPONENTS.
B. PROVIDE "MOISTURE RESISTANT GYPSUM" IN ALL WET LOCATIONS ADJACENT TO PLUMBING FIXTURES
C. PROVIDE CEMENTITIOUS BOARD AT ALL SURFACES TO RECEIVE TILE FINISH
D. EXTEND ALL COMPONENTS THROUGH A CEILING/ATTIC TO UNDERSIDE OF DECK ABOVE, U.N.O.
E. ON EXPOSED GYPSUM SURFACES, FINISH SHALL BE LEVEL 4 U.N.O.
F. REFER TO SHEET A8.30 FOR TYPICAL CFS WALL FRAMING DETAILS.

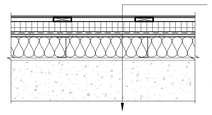
ASSEMBLY FOOTNOTES:
1. RUN TO BOTTOM OF CONC STAIRS.
2. PROVIDE ADDITIONAL LAYERS OF TYPE 'X' GYP BD TO FLUSH OUT W/ (E) WALL EACH SIDE.

W1 | EXTERIOR WALL | NON-RATED |



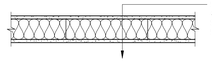
-EXTERIOR-
FIBER CEMENT PANEL SIDING
1x4 (FRT) PT FIRE-RETARDANT FURRING
2" MINERAL WOOL RIGID INSULATION, R-8 MIN
FLUID APPLIED AIR BARRIER MEMBRANE
1/2" FIRE-TREATED PLYWOOD SHEATHING
4" 400S162-54 [50] CFS STUDS @ 16" OC
MINERAL WOOL BATT INSULATION, R-13 MIN
5/8" GYP BD, FINISH PER PLAN
-INTERIOR-

W2 | EXTERIOR WALL | NON-RATED |



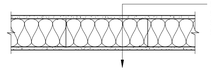
-EXTERIOR-
FIBER CEMENT PANEL SIDING
1x4 (FRT) PT FIRE-RETARDANT FURRING
2" MINERAL WOOL RIGID INSULATION, R-8 MIN
FLUID APPLIED AIR BARRIER MEMBRANE
1/2" FIRE-TREATED PLYWOOD SHEATHING
4" 400S162-54 [50] CFS STUDS @ 16" OC
MINERAL WOOL BATT INSULATION, R-13 MIN
(E) PLYWOOD
(E) CONCRETE WALL
-INTERIOR-

W3 | INTERIOR WALL | NON-RATED |



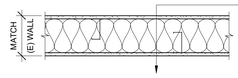
5/8" GYP BD, FINISH PER PLAN
4" 400S300-68 [50] CFS STUDS @ 16" OC
SOUND BATT INSULATION
5/8" GYP BD, FINISH PER PLAN

W4 | INTERIOR WALL | NON-RATED |



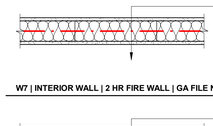
5/8" GYP BD, FINISH PER PLAN
5-1/2" 550S125-33 [33] CFS STUDS @ 16" OC
SOUND BATT INSULATION
5/8" GYP BD, FINISH PER PLAN

W5 | INTERIOR WALL | NON-RATED |



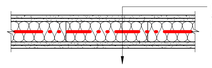
5/8" GYP BD, FINISH PER PLAN
ALIGN W/ FACE OF (E) WALL
4" 400S300-68 [50] CFS STUDS @ 16" OC
STAGGER EA STUD
SOUND BATT INSULATION
5/8" GYP BD, FINISH PER PLAN
ALIGN W/ FACE OF (E) WALL

W6 | INTERIOR WALL | 1 HR PARTITION | GA FILE NO. WP 1072



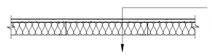
5/8" TYPE 'X' GYP BD, FINISH PER PLAN
4" 400S300-68 [50] CFS STUDS @ 16" OC
SOUND BATT INSULATION
5/8" TYPE 'X' GYP BD, FINISH PER PLAN

W7 | INTERIOR WALL | 2 HR FIRE WALL | GA FILE NO. WP 1522



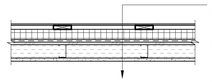
(2) LAYERS 5/8" TYPE 'X' GYP BD, FINISH PER PLAN
4" 400S300-68 [50] CFS STUDS @ 16" OC
SOUND BATT INSULATION
(2) LAYERS 5/8" TYPE 'X' GYP BD, FINISH PER PLAN

W8 | INTERIOR WALL | NON-RATED |



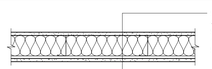
5/8" GYP BD, FINISH PER PLAN
2-1/2" 250S137-33 [33] CFS STUDS @ 16" OC
SOUND BATT INSULATION

W9 | EXTERIOR WALL | NON-RATED |



-EXTERIOR-
FIBER CEMENT PANEL SIDING
1x4 PT FIRE-RETARDANT FURRING
2" MINERAL WOOL RIGID INSULATION, R-8 MIN
FLUID APPLIED AIR BARRIER MEMBRANE
1/2" FIRE-TREATED PLYWOOD SHEATHING
2-1/2" 250S137-33 [33] CFS STUDS @ 16" OC
SPRAY FOAM INSULATION, R-13 MIN
5/8" GYP BD, FINISH PER PLAN
-INTERIOR-

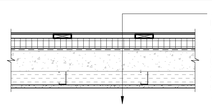
W10 | INTERIOR WALL | NON-RATED |



5/8" GYP BD, FINISH PER PLAN
4" 400S300-68 [50] CFS STUDS @ 16" OC
SOUND BATT INSULATION
1/2" RESILIENT CHANNEL, RUN HORIZ
5/8" GYP BD, FINISH PER PLAN

SPECIAL NOTES:
A. PROVIDE CONT ACOUSTIC SEALANT ALONG TOP AND BOTTOM TRACK, AND AT ALL PERIMETER CONDITIONS.
B. SEAL ALL THROUGH PENETRATIONS W/ ACOUSTIC SEALANT. WHERE WALL CROSSES DUCT OR CEILING PLENUM, SEAL DUCT PENETRATIONS AND PROVIDE DUCT SILENCERS
C. OFFSET ANY ELEC OR DATA BOXES ON OPPOSITE WALL FACES MIN 24" HORIZ. PROVIDE ACOUSTIC GASKET BOXES OR PUTTY PADS AT EA OUTLET.

W11 | EXTERIOR WALL | NON-RATED |



-EXTERIOR-
FIBER CEMENT PANEL SIDING
1x4 PT FIRE-RETARDANT FURRING
2" MINERAL WOOL RIGID INSULATION, R-8 MIN
FLUID APPLIED AIR BARRIER MEMBRANE
(E) CONCRETE WALL
2-1/2" 250S137-33 [33] CFS STUDS @ 16" OC
SPRAY FOAM INSULATION, R-13 MIN
5/8" GYP BD, FINISH PER PLAN
-INTERIOR-

ZCS
524 Main Street, Suite 2
Oregon City, OR 97045
503.659.2205

CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON JULY 09, 2004
STATE OF OREGON

△	DESCRIPTION	DATE:

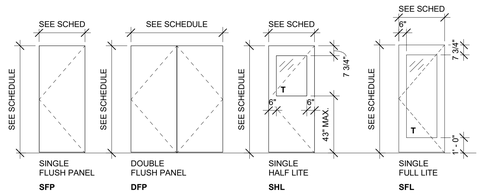
PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

ASSEMBLIES AND FINISH SCHEDULES

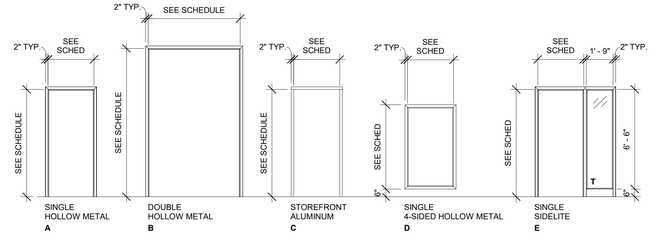
A0.10

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE 8/7/2026 11:42:52 AM Autodesk Docs://P3116 Clackamas River Water/P3116_ARCH_R26.rvt



DOOR TYPES
1/4" = 1'-0"



FRAME TYPES
1/4" = 1'-0"

DOOR, FRAME AND HARDWARE SCHEDULE

DOOR NUMBER	ROOM NUMBER	ROOM NAME	DOOR SIZE W	DOOR SIZE H	DOOR SIZE T	DOOR MTL	DOOR TYPE	DOOR GLAZING	DOOR NOTES	FRAME MTL	FRAME TYPE	FRAME NOTES	FIRE RATING	HARDWARE GROUP	HARDWARE NOTES	DETAILS HEAD	DETAILS JAMB	DETAILS SILL
110A	110A	SCADA SERVER	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SFP	-	6, 8	HM	A	1	-	1	1	6/A9.00	6/A9.00	-
110B	110B	SCADA OFFICE	3' - 10"	7' - 0"	0' - 1 3/4"	HM	SHL	T, 1" IGU	6, 7, 8	HM	E	1	-	18	1	10/A9.00	10/A9.00	-
112A	112A	RR	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SFP	-	3	HM	A	1	-	3	-	2/A9.00	2/A9.00	-
112B	112B	LOCKER ROOM	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SFP	-	6, 8	HM	A	1	-	4	-	9/A9.00	9/A9.00	-
201A	201	BREAK	3' - 0"	7' - 0"	0' - 1 3/4"	ALM	SFL	T, 1" IGU	1	ALM	C	1	-	5	-	3/A8.10	8/A8.10	13/A8.10
201B	201	BREAK	2' - 6"	7' - 0"	0' - 1 3/4"	ALM	SFL	T, 1" IGU	1, 9	ALM	C	1, 2	-	6	1	4/A8.10	9/A8.10	14/A8.10
201C	201	BREAK	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SHL	T	8	HM	A	1	-	19	-	2/A9.00	2/A9.00	-
202	202	CONFERENCE	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SHL	T	8	HM	A	1	-	7	-	2/A9.00	2/A9.00	-
203	203	OPS OPEN OFFICE	2' - 6"	7' - 0"	0' - 1 3/4"	ALM	SFL	T, 1" IGU	1, 9	ALM	C	1, 2	-	6	1	4/A8.10	9/A8.10	14/A8.10
204A	204	STAIR	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SFP	-	2, 8	HM	A	1	20 MIN	8	-	2/A9.00	2/A9.00	-
204B	204	STAIR	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SFP	-	-	HM	A	1	20 MIN	20	-	2/A9.00	2/A9.00	-
205A	205	WQ OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SFP	-	8	HM	A	1	-	19	-	2/A9.00	2/A9.00	-
205B	205	WQ OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SHL	T, D-H-T-W-60	8	HM	A	1	20 MIN	9	-	2/A9.00	2/A9.00	-
206	206	CONTROL ROOM	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SHL	T	6, 8	HM	A	1	-	2	1	2/A9.00	2/A9.00	-
207	207	OPS LAB	2' - 6"	7' - 0"	0' - 1 3/4"	ALM	SFL	T, IGU	1, 8, 9	ALM	C	1, 2	-	6	1	4/A8.10	9/A8.10	14/A8.10
209A	209	ANALYTICAL LAB	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SHL	T, D-H-45	8	HM	A	1	45 MIN	10	-	2/A9.00	2/A9.00	-
209B	209	ANALYTICAL LAB	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SHL	T, D-H-45	8	HM	E	1, 3	45 MIN	11	-	14/A9.00	14/A9.00	14/A9.00
210	210	STAIR	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SHL	T, D-H-T-W-60	-	HM	A	1	20 MIN	8	-	2/A9.00	2/A9.00	-
211	211	MANAGER OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SHL	T	8	HM	A	1	-		1	2/A9.00	2/A9.00	-
212	212	RR	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SFP	-	4	HM	A	1	-		-	2/A9.00	2/A9.00	-
213	213	RR	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SFP	-	5	HM	A	1	-	12	-	2/A9.00	2/A9.00	-
214	214	SUPER OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SHL	T	8	HM	A	1	-	2	1	2/A9.00	2/A9.00	-
215	215	CUSTODIAL	2' - 6"	7' - 0"	0' - 1 3/4"	HM	SFP		7	HM	A	1	20 MIN	13	-	2/A9.00	2/A9.00	-
216	216	CHEMICAL FEED	3' - 0"	7' - 0"	0' - 1 3/4"	HM	SHL	T, D-H-W-90	7	HM	A	1	90 MIN	14	-	2/A9.00	2/A9.00	-
302A	302	SODA ASH STORAGE	3' - 0"	7' - 0"	0' - 1 3/4"	EXISTING	EXISTING	EXISTING	-	EXISTING	EXISTING	1	EXISTING	15	2	-	-	-
302B	302	SODA ASH STORAGE	6' - 0"	9' - 8"	0' - 1 3/4"	FG	DFP	-	1	FG	B	1, 2, 4	-	16	-	1/A8.10	6/A8.10	11/A8.10
302C	302	SODA ASH STORAGE	3' - 0"	5' - 6"	0' - 1 3/4"	HM	SFP	-	1	HM	D	1, 2	-	17	-	2/A8.10	7/A8.10	12/A8.10

DOOR, FRAME AND HARDWARE SCHEDULE NOTES

DOOR, FRAME & HARDWARE GENERAL NOTES

A. ALL CLOSERS TO COMPLY WITH ANSI A117.1-2017, SECTION 404.2
B. CONTRACTOR TO VERIFY ALL ROUGH OPENING SIZES WITH DOOR MANUFACTURER.
C. SEE FLOOR PLANS FOR DOOR SWING
D. PROVIDE SAFETY GLAZING WHERE INDICATED
E. PROVIDE SHOP DRAWINGS FOR ZCS AND OWNER REVIEW AND APPROVAL.

DOOR NOTES

1. DOOR SHALL BE INSULATED W/ A MAX U-VALUE OF U-0.63 AND A MAX SHGC OF 0.33
2. 180 DEGREE SWING
3. PROVIDE ACCESSIBLE RESTROOM SIGNAGE ON DOOR
4. PROVIDE ACCESSIBLE MEN'S RESTROOM SIGNAGE ON DOOR
5. PROVIDE ACCESSIBLE WOMEN'S RESTROOM SIGNAGE ON DOOR
6. DOOR TO HAVE MIN STC RATING OF 50
7. PAINT PT3
8. PROVIDE SIGNAGE W/ ROOM NAME
9. DARKER TINT GLAZING; SEE SPECS

FRAME NOTES

1. PAINT PT6
2. FRAME SHALL BE INSULATED AND THERMALLY BROKEN
3. FIRE-RESISTANCE-RATED GLAZING ASSEMBLY TESTED TO ASTM E119 OR UL 263. PROVIDE FIRE-RATED GLAZING MARKING D-H-45
4. FIELD CUT HEAD FRAME AS REQ'D FOR INSTALLATION AROUND (E) HOIST BEAM

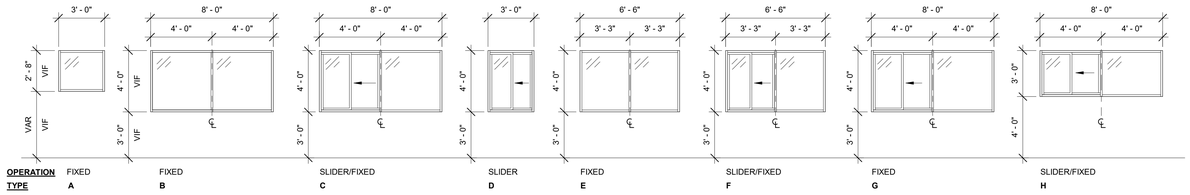
HARDWARE NOTES

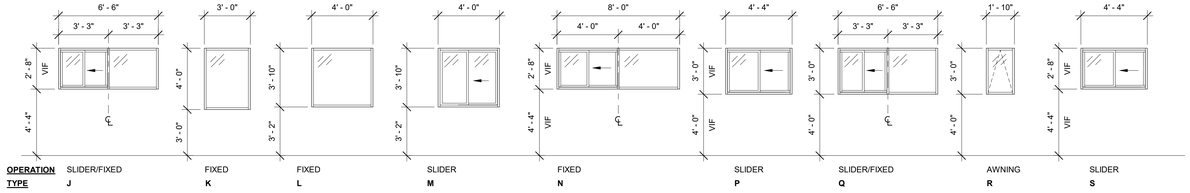
1. CARD READER, POWER SUPPLY ACCESS CONTROL, AND WIRING BY OTHERS
2. BALANCE OF EXISTING HARDWARE TO REMAIN

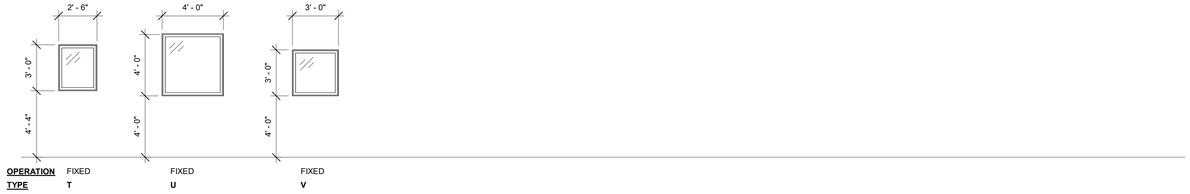
ABBREVIATIONS

ALM ALUMINUM STOREFRONT
FG FIBERGLASS
HM WELDED HOLLOW METAL
IGU INSULATED GLASS UNIT
T TEMPERED SAFETY GLASS
WD WOOD, SOLID CORE WHITE OAK W/ CLEAR STAIN - SEE SPECS

D-H-45 FIRE-RATED GLAZING MARKING - SEE OSSC 716.1(1)
D-H-W-90
D-H-T-W-60







WINDOW TYPES
1/4" = 1'-0"

WINDOW SCHEDULE

WINDOW TYPE	ROOM NUMBER	ROOM NAME	FRAME SIZE HEIGHT	FRAME SIZE WIDTH	FRAME SILL HEIGHT	FRAME MATERIAL	FRAME FINISH	FRAME NOTES	GLAZING OPERATION	GLAZING TYPE	GLAZING NOTES	FIRE RATED GLAZING MARKING	DETAILS HEAD	DETAILS JAMB	DETAILS SILL
A	214	SUPER OFFICE	2' - 8"	3' - 0"	4' - 4"	ALM	-	-	FIXED	IGU		-	5/A8.10	10/A8.10	15/A8.10
A	216	CHEMICAL FEED	2' - 8"	3' - 0"	4' - 4"	ALM	-	-	FIXED	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
B	204	STAIR	4' - 0"	8' - 0"	3' - 0"	ALM	-	-	FIXED	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
C	205	WQ OFFICE	4' - 0"	8' - 0"	3' - 0"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
D	205	WQ OFFICE	4' - 0"	3' - 0"	3' - 0"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
D	206	CONTROL ROOM	4' - 0"	3' - 0"	3' - 0"	ALM	-	-	SLIDING	IGU	4	-	5/A8.10	10/A8.10	15/A8.10
E	210	STAIR	4' - 0"	6' - 6"	3' - 0"	ALM	-	-	FIXED	IGU, T	-	-	5/A8.10	10/A8.10	15/A8.10
F	211	MANAGER OFFICE	4' - 0"	6' - 6"	3' - 0"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
F	206	CONTROL ROOM	4' - 0"	6' - 6"	3' - 0"	ALM	-	-	SLIDING	IGU	4	-	5/A8.10	10/A8.10	15/A8.10
F	203	OPS OPEN OFFICE	4' - 0"	6' - 6"	3' - 0"	ALM	-	-	SLIDING	IGU	4	-	5/A8.10	10/A8.10	15/A8.10
F	203	OPS OPEN OFFICE	4' - 0"	6' - 6"	3' - 0"	ALM	-	-	SLIDING	IGU	4	-	5/A8.10	10/A8.10	15/A8.10
F	203	OPS OPEN OFFICE	4' - 0"	6' - 6"	3' - 0"	ALM	-	-	SLIDING	IGU, T	4	-	5/A8.10	10/A8.10	15/A8.10
F	202	CONFERENCE	4' - 0"	6' - 6"	3' - 0"	ALM	-	-	SLIDING	IGU	4	-	5/A8.10	10/A8.10	15/A8.10
F	202	CONFERENCE	4' - 0"	6' - 6"	3' - 0"	ALM	-	-	SLIDING	IGU	4	-	5/A8.10	10/A8.10	15/A8.10
F	202	CONFERENCE	4' - 0"	6' - 6"	3' - 0"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
F	202	CONFERENCE	4' - 0"	6' - 6"	3' - 0"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
F	203	OPS OPEN OFFICE	4' - 0"	6' - 6"	3' - 0"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
F	203	OPS OPEN OFFICE	4' - 0"	6' - 6"	3' - 0"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
G	214	SUPER OFFICE	4' - 0"	8' - 0"	3' - 0"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
H	216	CHEMICAL FEED	3' - 0"	8' - 0"	4' - 0"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
H	301	ACH	3' - 0"	8' - 0"	4' - 0"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
H	303	STORAGE	3' - 0"	8' - 0"	4' - 0"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
J	216	CHEMICAL FEED	2' - 8"	6' - 6"	4' - 4"	ALM	-	-	SLIDING	IGU	4	-	5/A8.10	10/A8.10	15/A8.10
J	302	SODA ASH STORAGE	2' - 8"	6' - 6"	4' - 4"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
J	303	STORAGE	2' - 8"	6' - 6"	4' - 4"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
K	207	OPS LAB	4' - 0"	3' - 0"	3' - 0"	ALM	-	-	FIXED	IGU, T	4	-	5/A8.10	10/A8.10	15/A8.10
K	207	OPS LAB	4' - 0"	3' - 0"	3' - 0"	ALM	-	-	FIXED	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
K	207	OPS LAB	4' - 0"	3' - 0"	3' - 0"	ALM	-	-	FIXED	IGU, T	-	-	5/A8.10	10/A8.10	15/A8.10
K	206	CONTROL ROOM	4' - 0"	3' - 0"	3' - 0"	ALM	-	-	FIXED	IGU	4	-	5/A8.10	10/A8.10	15/A8.10
K	203	OPS OPEN OFFICE	4' - 0"	3' - 0"	3' - 0"	ALM	-	-	FIXED	IGU, T	4	-	5/A8.10	10/A8.10	15/A8.10
K	203	OPS OPEN OFFICE	4' - 0"	3' - 0"	3' - 0"	ALM	-	-	FIXED	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
K	203	OPS OPEN OFFICE	4' - 0"	3' - 0"	3' - 0"	ALM	-	-	FIXED	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
K	201	BREAK	4' - 0"	3' - 0"	3' - 0"	ALM	-	-	FIXED	IGU, T	4	-	5/A8.10	10/A8.10	15/A8.10
K	201	BREAK	4' - 0"	3' - 0"	3' - 0"	ALM	-	-	FIXED	IGU, T	-	-	5/A8.10	10/A8.10	15/A8.10
K	201	BREAK	4' - 0"	3' - 0"	3' - 0"	ALM	-	-	FIXED	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
K	208	HALL	4' - 0"	3' - 0"	3' - 0"	ALM	-	-	FIXED	IGU	4	-	5/A8.10	10/A8.10	15/A8.10
L	201	BREAK	3' - 6"	3' - 0"	3' - 2"	ALM	-	-	FIXED	IGU, T	-	-	5/A8.10	10/A8.10	15/A8.10
M	201	BREAK	3' - 6"	4' - 0"	3' - 2"	ALM	-	-	FIXED	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
N	302	SODA ASH STORAGE	2' - 8"	8' - 0"	4' - 4"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
N	302	SODA ASH STORAGE	2' - 8"	8' - 0"	4' - 4"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
P	302	SODA ASH STORAGE	3' - 0"	4' - 4"	4' - 0"	ALM	-	-	SLIDING	IGU, T	-	-	5/A8.10	10/A8.10	15/A8.10
Q	302	SODA ASH STORAGE	3' - 0"	6' - 6"	4' - 0"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
Q	302	SODA ASH STORAGE	3' - 0"	6' - 6"	4' - 0"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
Q	301	ACH	3' - 0"	6' - 6"	4' - 0"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
Q	301	ACH	3' - 0"	6' - 6"	4' - 0"	ALM	-	-	SLIDING	IGU	-	-	5/A8.10	10/A8.10	15/A8.10
R	302	SODA ASH STORAGE	3' - 0"	1' - 10"	4' - 0"	ALM	-	-	AWNING	IGU, T	-	-	5/A8.10	10/A8.10	15/A8.10
S	112A	RR	2' - 6"	4' - 4"	4' - 8"	ALM	-	-	SLIDING	IGU, T	1	-	18/A8.10	19/A8.10	20/A8.10
T	209	ANALYTICAL LAB	3' - 0"	2' - 6"	4' - 4"	HM	PT7	1	FIXED	FRG	2	W-60	7/A9.00	7/A9.00	7/A9.00
U	216	CHEMICAL FEED	4' - 0"	4' - 0"	4' - 0"	ALM		2	FIXED	FRG	3	W-120	3/A9.00	3/A9.00	3/A9.00
V	206	CONTROL ROOM	3' - 0"	3' - 0"	4' - 0"	HM	PT7	-	FIXED	GL	-	-	7/A9.00	7/A9.00	7/A9.00
V	207	OPS LAB	3' - 0"	3' - 0"	4' - 0"	HM	PT7	-	FIXED	GL	-	-	7/A9.00	7/A9.00	7/A9.00

WINDOW SCHEDULE NOTES

DOOR, FRAME & HARDWARE GENERAL NOTES

1. ALL EXTERIOR WINDOWS SHALL BE INSULATED GLAZING UNITS (IGU'S)
2. ALL WINDOWS SHALL BE CLEAR GLAZING UNO
3. SURFACE 2 OF OUTER PANE OF GLASS TO BE LOW-E
4. ALL WINDOWS SHALL COMPLY WITH ASTM E 774
5. G.C. TO PROVIDE SAFETY GLAZING AS INDICATED ON PLANS

FRAME NOTES

1. 1 HR FIRE-RATED WINDOW FRAME ASSEMBLY
2. 2 HR FIRE-RATED PROTECTIVE FRAMED GLAZING ASSEMBLY

GLAZING NOTES

1. PRIVACY GLAZING
2. FIRE-RESISTANCE-RATED GLAZING ASSEMBLY TESTED TO ASTM E119 OR UL 263. PROVIDE FIRE-RATED GLAZING MARKING W-60
3. FIRE-RESISTANCE-RATED GLAZING ASSEMBLY TESTED TO ASTM E119 OR UL 263. PROVIDE FIRE-RATED GLAZING MARKING W-120
4. DARKER TINT GLAZING; SEE SPECS

ABBREVIATIONS

ALM ALUMINUM
IGU INSULATED GLASS UNIT
T TEMPERED SAFETY GLASS
FRG FIRE-RESISITVE-RATED GLAZING
GL GLAZING

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CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
2026
STATE OF OREGON

△	DESCRIPTION	DATE:

PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

DOOR AND WINDOW SCHEDULES

A0.20

BID AND PERMIT SET

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ONE INCH EQUALS FULL SCALE

HARDWARE SCHEDULE

MANUFACTURER LIST

CODE	MFR SPECIFIED
DJ	DON-JO
GL	GLYNN JOHNSON
IV	IVES
LC	LCN
NA	NATIONAL GUARD
PE	PEMKO
SC	SCHLAGE
ST	BEST
STE	STEELCRAFT
VO	VON DUPRIN

FINISH LIST

CODE	DESCRIPTION
26D	SATIN CHROME
626	SATIN CHROME PLATED
AL	ALUMINUM (BHMA 689)
CP	CHROME PLATED
US26D	CHROMIUM PLATED, DULL
US32D	STAINLESS STEEL, DULL

GROUP 1 (ELECTRIFIED HARDWARE SET)
Doors: 110A

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
3	BUTT HINGE	FBB179 4.5" x 4.5" NRP	26D	ST
1	LOCKSET	ND80P RHO	626	SC
1	ELECTRIC STRIKE	6211	US32D	VO
1	CLOSER	4111 EDA	AL	LC
1	PROTECTION PLATE	8400 10" x 34"	US32D	IV
1	WALL STOP	WS406/407CCV	US32D	IV
1	WEATHERSTRIP	PS074 1 x 36" 2 x 84"	BLACK	STE

CARD READER, POWER SUPPLY, ACCESS CONTROL, WIRING BY OTHERS.

GROUP 2 (ELECTRIFIED HARDWARE SET)
Doors: 206, 211, 214

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
3	BUTT HINGE	FBB179 4.5" x 4.5"	26D	ST
1	LOCKSET	ND50P RHO	626	SC
1	ELECTRIC STRIKE	6211	US32D	VO
1	CLOSER	4111 REGARM	AL	LC
1	PROTECTION PLATE	8400 10" x 34"	US32D	IV
1	WALL STOP	WS406/407CCV	US32D	IV
1	WEATHERSTRIP	PS074 1 x 36" 2 x 84"	BLACK	STE

CARD READER, POWER SUPPLY, ACCESS CONTROL, WIRING BY OTHERS.

GROUP 3
Doors: 112A

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
3	BUTT HINGE	FBB179 4.5" x 4.5"	26D	ST
1	LEVERSET	ND40 RHO OS-OCC	626	SC
1	CLOSER	4111 SCUSH	AL	LC
1	PROTECTION PLATE	8400 10" x 34"	US32D	IV
1	WEATHERSTRIP	PS074 1 x 36" 2 x 84"	BLACK	STE

GROUP 4
Doors: 112B

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
3	BUTT HINGE	FBB179 4.5" x 4.5"	26D	ST
1	LEVERSET	ND10 RHO	626	SC
1	CLOSER	4011 REGARM	AL	LC
1	OVERHEAD STOP	904S	US32D	GL
1	PROTECTION PLATE	8400 10" x 34"	US32D	IV
1	WEATHERSTRIP	PS074 1 x 36" 2 x 84"	BLACK	STE
1	AUTO DOOR BOTTOM	335 SA 36"	-	NA

GROUP 5
Doors: 201A

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
1	LOCKSET	ND50P RHO	626	SC
1	CLOSER	4111 SHCUSH 30 SHOE SUPPORT 4110-18CUSH 61 STOP SPACER	AL	LC
1	DRIP CAP	16 A 40" SMS-TEKS 6 x 3/4"	-	NA
1	SADDLE THRESHOLD	425 36"	AL	NA

CONTINUOUS HINGE, GASKET, DOOR SWEEP BY DOOR SUPPLIER.

GROUP 6 (ELECTRIFIED HARDWARE SET)
Doors: 201B, 203, 207

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
1	LOCKSET	ND80P RHO	626	SC
1	ELECTRIC STRIKE	6211	US32D	VO
1	CLOSER	4111 REGARM	AL	LC
1	OVERHEAD STOP	103S	US32D	GL
1	SADDLE THRESHOLD	425 32"	AL	NA

CONTINUOUS HINGE, GASKET, DOOR SWEEP BY BY DOOR SUPPLIER.
CARD READER, POWER SUPPLY, ACCESS CONTROL, WIRING BY OTHERS.

GROUP 7
Doors: 202

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
3	BUTT HINGE	FBB179 4.5" x 4.5"	26D	ST
1	LEVERSET	ND10 RHO	626	SC
1	CLOSER	4111 SCUSH	AL	LC
1	PROTECTION PLATE	8400 10" x 34"	US32D	IV
1	WEATHERSTRIP	PS074 1 x 36" 2 x 84"	BLACK	STE

GROUP 8
Doors: 204A, 210

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
3	BUTT HINGE	FBB179 4.5" x 4.5"	26D	ST
1	LEVERSET	ND10 RHO	626	SC
1	MAGNETIC HOLDER	SEM7850	AL	LC
1	CLOSER	4111 EDA	AL	LC
1	PROTECTION PLATE	8400 10" x 34"	US32D	IV
1	WALL STOP	WS406/407CCV	US32D	IV
1	WEATHERSTRIP	PS074 1 x 36" 2 x 84"	BLACK	STE

GROUP 9
Doors: 205B

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
3	BUTT HINGE	FBB179 4.5" x 4.5"	26D	ST
1	LOCKSET	ND50P RHO	626	SC
1	CLOSER	4011 REGARM	AL	LC
1	PROTECTION PLATE	8400 10" x 34"	US32D	IV
1	WALL STOP	WS406/407CCV	US32D	IV
1	WEATHERSTRIP	PS074 1 x 36" 2 x 84"	BLACK	STE

GROUP 10
Doors: 209A

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
3	BUTT HINGE	FBB179 4.5" x 4.5"	26D	ST
1	LEVERSET	ND10 RHO	626	SC
1	CLOSER	4011 REGARM	AL	LC
1	OVERHEAD STOP	904S	US32D	GL
1	PROTECTION PLATE	8400 10" x 34"	US32D	IV

GROUP 11
Doors: 209B

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
3	BUTT HINGE	FBB179 4.5" x 4.5"	26D	ST
1	LEVERSET	ND10 RHO	626	SC
1	CLOSER	4011 SCUSH	AL	LC
1	PROTECTION PLATE	8400 10" x 34"	US32D	IV
1	WEATHERSTRIP	PS074 1 x 36" 2 x 84"	BLACK	STE

GROUP 12
Doors: 212, 213

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
3	BUTT HINGE	FBB179 4.5" x 4.5"	26D	ST
1	LEVERSET	ND40 RHO OS-OCC	626	SC
1	CLOSER	4011 REGARM	AL	LC
1	PROTECTION PLATE	8400 10" x 34"	US32D	IV
1	WALL STOP	WS406/407CCV	US32D	IV
1	WEATHERSTRIP	PS074 1 x 36" 2 x 84"	BLACK	STE

GROUP 13
Doors: 215

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
3	BUTT HINGE	FBB179 4.5" x 4.5"	26D	ST
1	LOCKSET	ND80P RHO	626	SC
1	CLOSER	4011 SCUSH	AL	LC
1	PROTECTION PLATE	8400 10" x 34"	US32D	IV
1	WEATHERSTRIP	PS074 1 x 36" 2 x 84"	BLACK	STE
1	AUTO DOOR BOTTOM	335 SA 30"	-	NA

GROUP 14
Doors: 216

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
3	BUTT HINGE	FBB179 4.5" x 4.5"	26D	ST
1	EXIT DEVICE	98L-F x 996L-R&V	US26D	VO
1	RIM CYLINDER	20-057	626	SC
1	CLOSER	4011 SCUSH	AL	LC
1	PROTECTION PLATE	8400 10" x 34"	US32D	IV
1	WEATHERSTRIP	PS074 1 x 36" 2 x 84"	BLACK	STE
1	AUTO DOOR BOTTOM	320 SA 36" END CAP STD	-	NA

GROUP 15 (EXISTING DOOR)
Doors: 302A

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
1	WEATHERSTRIP	PS074 1 x 36" 2 x 84"	BLACK	STE
1	DOOR SWEEP	200 NA 36" SMS-TEKS 6 x 3/4"	-	NA

BALANCE OF EXISTING HARDWARE TO REMAIN

GROUP 16
Doors: 302B

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
2	CONTINUOUS HINGE	CFM 120 HD1 CUSTOM LENGTH	-	PE
1	PULL CHAIN BOLT	1540	CP	DJ
1	FLUSH BOLT SET	FB51P	US32D	IV
1	LOCKSET	ND80P RHO	626	SC
2	CLOSER	4111 SCUSH	AL	LC
2	GASKETING	5050 B-17 17'	-	NA
1	DRIP CAP	16 A 76" SMS-TEKS 6 x 3/4"	-	NA
2	DOOR SWEEP	200 NA 36" SMS-TEKS 6 x 3/4"	-	NA
1	SADDLE THRESHOLD	425 72"	AL	NA

BOTTOM AUTO FLUSHBOLT ONLY. NO TOP BOLT.
PROVIDE CONTINUOUS HINGE WITH METAL SCREWS.

GROUP 17
Doors: 302C

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
3	BUTT HINGE	FBB179 4.5" x 4.5" NRP	26D	ST
1	LOCKSET	ND50P RHO	626	SC
1	CLOSER	4111 SHCUSH	AL	LC
1	PROTECTION PLATE	8400 10" x 34"	US32D	IV
1	DRIP CAP	16 A 40" SMS-TEKS 6 x 3/4"	-	NA
2	WEATHERSTRIP	PS074 36"	BLACK	STE
2	WEATHERSTRIP	PS074 84"	BLACK	STE
1	AUTO DOOR BOTTOM	320 SA 36" END CAP STD	-	NA

GROUP 18 (ELECTRIFIED HARDWARE SET)
Doors: 110B

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
3	BUTT HINGE	FBB168 4.5" x 4.5"	26D	ST
1	LOCKSET	ND50P RHO	626	SC
1	ELECTRIC STRIKE	6211	US32D	VO
1	CLOSER	4011 REGARM	AL	LC
1	PROTECTION PLATE	8400 10" x 44"	US32D	IV
1	WALL STOP	WS406/407CCV	US32D	IV
1	WEATHERSTRIP	PS074 1 x 72" 2 x 84"	BLACK	STE
1	AUTO DOOR BOTTOM	335 SA 44"	-	NA

CARD READER, POWER SUPPLY, ACCESS CONTROL, WIRING BY OTHERS.

GROUP 19
Doors: 201C, 205A

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
3	BUTT HINGE	FBB179 4.5" x 4.5"	26D	ST
1	LEVERSET	ND10 RHO	626	SC
1	OVERHEAD STOP	904S	US32D	GL
1	PROTECTION PLATE	8400 10" x 34"	US32D	IV
1	WEATHERSTRIP	PS074 1 x 36" 2 x 84"	BLACK	STE

GROUP 20
Doors: 204B

QTY	ITEM	PRODUCT NUMBER	FINISH	MFR
3	BUTT HINGE	FBB179 4.5" x 4.5" NRP	26D	ST
1	LOCKSET	ND50P RHO	626	SC
1	CLOSER	4111 EDA	AL	LC
1	PROTECTION PLATE	8400 10" x 34"	US32D	IV
1	WALL STOP	WS406/407CCV	US32D	IV
1	WEATHERSTRIP	PS074 1 x 36" 2 x 84"	BLACK	STE

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CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
1766
STATE OF OREGON

△	DESCRIPTION	DATE:

PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

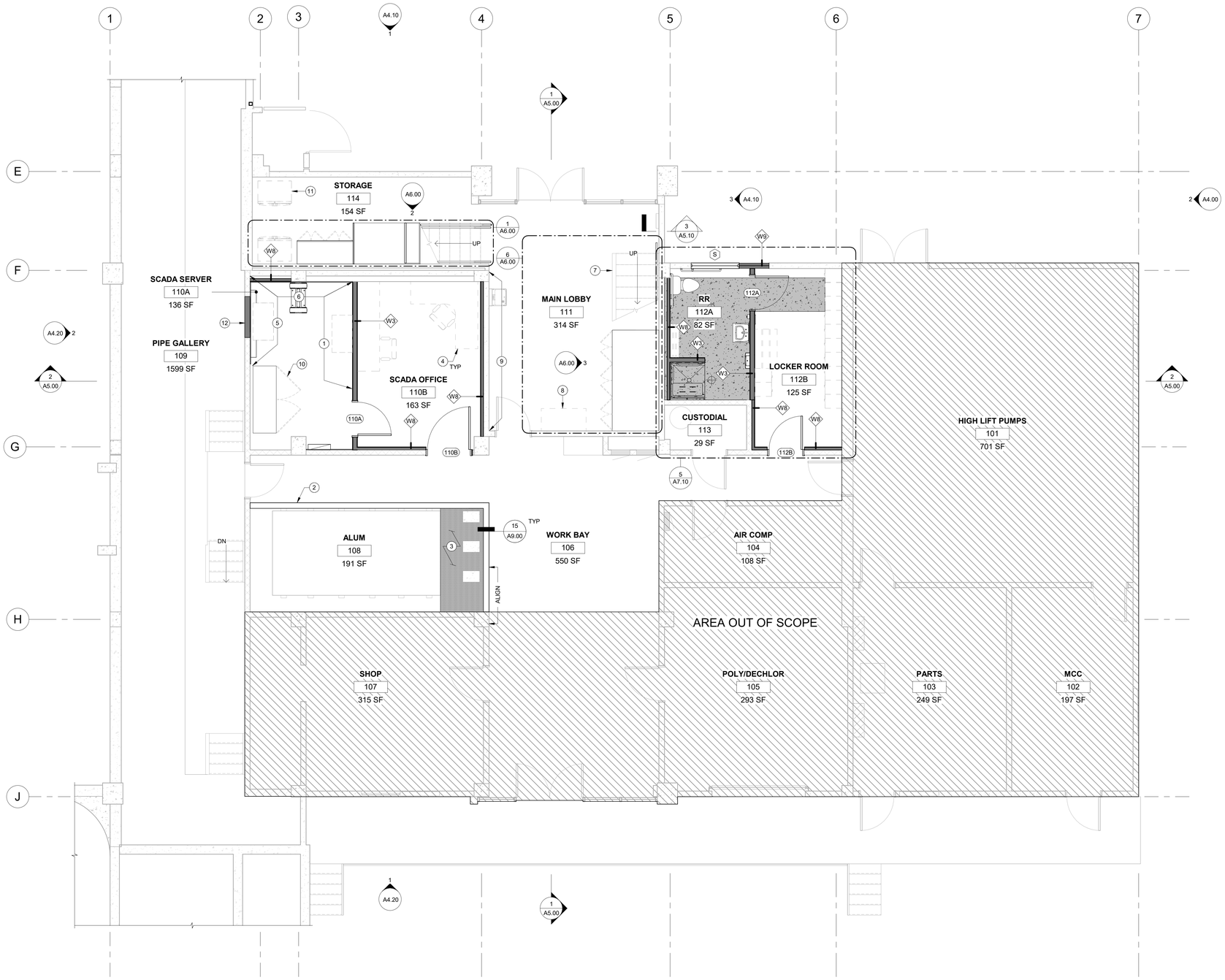
DOOR HARDWARE SCHEDULE

A0.30

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

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1 A1.10 FIRST FLOOR PLAN
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. VERIFY ALL DIMENSIONS AND NOTIFY PROJECT TEAM IF DISCREPANCIES OCCUR.

B. G.C. TO PROVIDE FIRE BLOCKING AS REQUIRED PER CODE.

C. G.C. SHALL PROVIDE ALL APPROPRIATE BACKING AS REQUIRED FOR ACCESSORIES AND OTHER MISCELLANEOUS ITEMS.

D. G.C. TO COORDINATE INSTALLATION OF ALL UTILITIES WITH RESPECTIVE SUPPLIERS/SUBCONTRACTORS PRIOR TO CONSTRUCTION, TYPICAL.

E. ALL ELECTRICAL, MECHANICAL, PLUMBING, FIRE SUPPRESSION AND LANDSCAPE TO BE DESIGN BUILD PER APPLICABLE CODES.

F. ALL DIMENSION LINES TO THE FACE OF FRAMING, U.N.O.

G. NEW OR RELOCATED DOORS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL OR SHALL BE RELOCATED FOUR INCHES FROM FINISH WALL TO HINGE SIDE OF DOOR.

H. PATCH ALL ABANDONED CORE DRILL HOLES THROUGH CONCRETE FLOOR SLAB.

FLOOR PLAN LEGEND

- (E) CONC COLUMN TO REMAIN
- CONC PATCH OF (E) SLAB - SEE DETAIL 5/A9.00
- CAST UNDERLAYMENT
- VINYL ESTER COATING
- TRAFFIC COATING OVER (E) CONC FLOOR
- (N) WALL, SEE ASSEMBLIES A0.10
- (E) CONC WALL TO REMAIN
- (E) CMU WALL TO REMAIN
- INDICATES (1) HR FIRE PARTITION
- INDICATES (2) HR FIRE WALL

KEYNOTES

1 WALL AREA RESERVED FOR SCADA RACKS, BY OTHERS. SEE MEPT DRAWINGS FOR FURTHER INFO

2 18" H x 6" W CONC EQUIPMENT CURB W/ #4 @ 12" O.C. VERTICAL & HORIZONTAL REINFORCEMENT. DRILL AND BOND VERTICAL BARS 4" MIN INTO (E) SLAB

3 EPOXY COATING APPLIED TO (N) CONC EQUIPMENT CURB, (E) CONC FLOOR, AND (E) CONC SUPPORT BRACKETS FOR ALUM TANK TO A HEIGHT OF 18" AFF

4 FURNITURE, OFCI

5 WALL AREA RESERVED FOR SECURITY RACKS/PANELS, BY OTHERS. SEE MEPT DRAWINGS FOR FURTHER INFO

6 WALL AREA RESERVED FOR FIRE PANELS, BY OTHERS. SEE MEPT DRAWINGS FOR FURTHER INFO

7 PATCH HOLES IN (E) CONC STRINGER WHERE GUARDRAIL WAS DEMO'D. PAINT STRINGER BLACK.

8 REINSTALL (E) FISH TANK. COORDINATE FINAL LOCATION W/ OWNER

9 REINSTALL (E) WALL-MTD MURAL OVER WD SLAT WALL FINISH

10 REINSTALL (E) DATA CABINET

11 FREEZER, OFCI

12 INFILL WALL AT LOCATION OF DEMO'D AIR CONDITIONER. MATCH ADJ WALL FINISH

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Matthew J. Crawford
OREGON CITY, OR
FOR
STATE OF OREGON

△	DESCRIPTION	DATE:

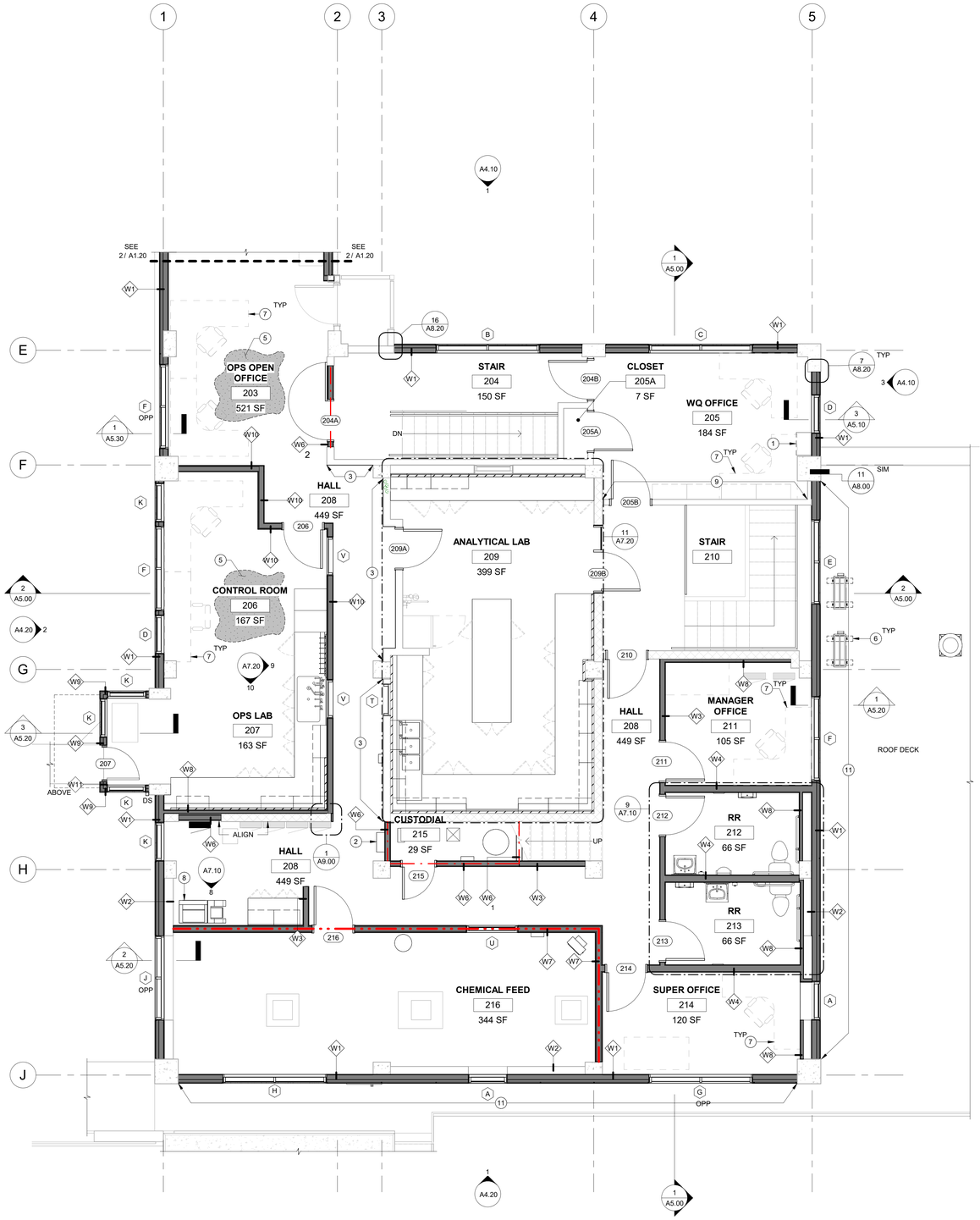
PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

FIRST FLOOR PLAN

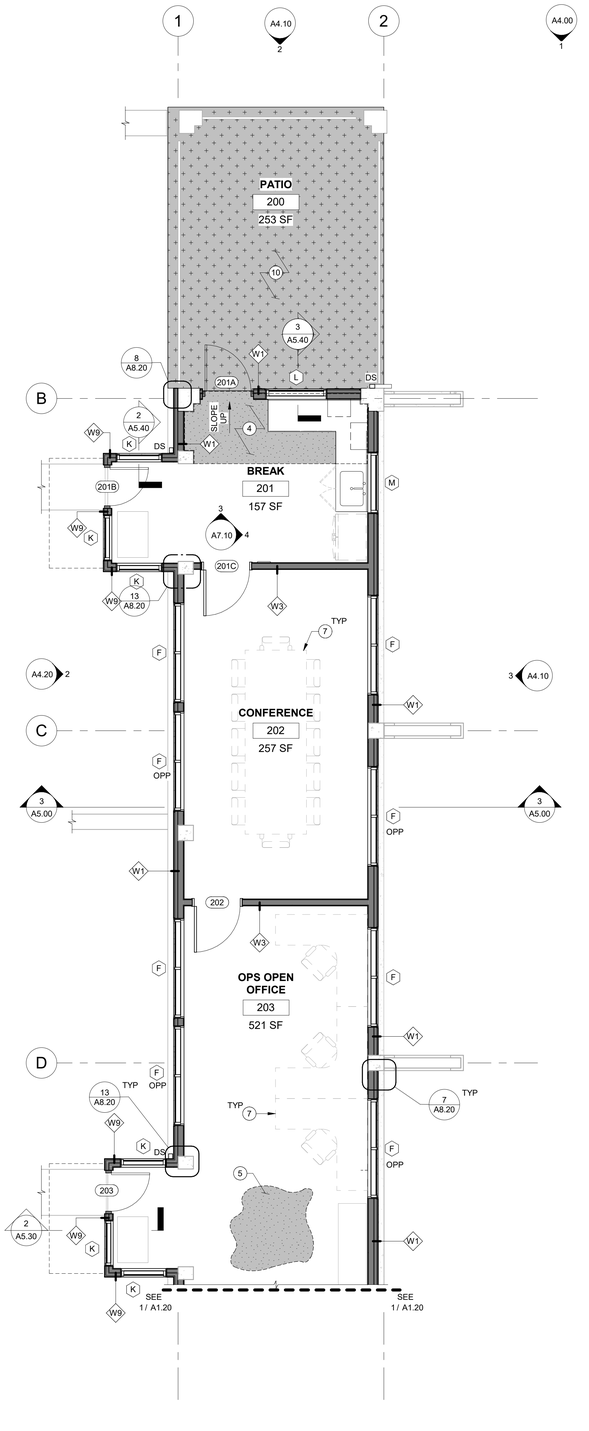
A1.10

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE
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1 SECOND FLOOR PLAN
A1.20 1/4" = 1'-0"



2 SECOND FLOOR PLAN - CONFERENCE ROOM
A1.20 1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. VERIFY ALL DIMENSIONS AND NOTIFY PROJECT TEAM IF DISCREPANCIES OCCUR.

B. G.C. TO PROVIDE FIRE BLOCKING AS REQUIRED PER CODE.

C. G.C. SHALL PROVIDE ALL APPROPRIATE BACKING AS REQUIRED FOR ACCESSORIES AND OTHER MISCELLANEOUS ITEMS.

D. G.C. TO COORDINATE INSTALLATION OF ALL UTILITIES WITH RESPECTIVE SUPPLIERS/SUBCONTRACTORS PRIOR TO CONSTRUCTION, TYPICAL.

E. ALL ELECTRICAL, MECHANICAL, PLUMBING, FIRE SUPPRESSION AND LANDSCAPE TO BE DESIGN BUILD PER APPLICABLE CODES.

F. ALL DIMENSION LINES TO THE FACE OF FRAMING, U.N.O.

G. NEW OR RELOCATED DOORS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL OR SHALL BE RELOCATED FOUR INCHES FROM FINISH WALL TO HINGE SIDE OF DOOR.

H. PATCH ALL ABANDONED CORE DRILL HOLES THROUGH CONCRETE FLOOR SLAB.

FLOOR PLAN LEGEND

- (E) CONC COLUMN TO REMAIN
- CONC PATCH OF (E) SLAB - SEE DETAIL 5/A9.00
- CAST UNDERLAYMENT
- VINYL ESTER COATING
- TRAFFIC COATING OVER (E) CONC FLOOR
- (N) WALL, SEE ASSEMBLIES A0.10
- (E) CONC WALL TO REMAIN
- (E) CMU WALL TO REMAIN
- INDICATES (1) HR FIRE PARTITION
- INDICATES (2) HR FIRE WALL

KEYNOTES

1 REINSTALL (E) CASEWORK

2 REINSTALL (E) WALL-MTD AED

3 APPLY 5/8" TYPE 'X' GYP BD TO (E) STUD WALL, FULL HEIGHT

4 SELF-LEVELING UNDERLAYMENT, SLOPE TO 3/4" HIGH ABOVE (E) FLOOR LEVEL AT GRIDLINE 'B'

5 PROVIDE SELF-LEVELING UNDERLAYMENT AS REQ'D TO ESTABLISH LEVEL SLAB THROUGHOUT ROOM. VERIFY EXTENTS IN FIELD; PROVIDE 200 TOTAL SQUARE FEET. SEE COVER SHEET G0.00 FOR ADDITIONAL UNIT PRICE.

6 (N) PREMANUFACTURED SUPPORT CURBS FOR ROOFTOP UNIT SET IN MASTIC TO (E) ROOFING, SEE MECH

7 FURNITURE, OFCI

8 RELOCATE (E) PRINTER. SEE ELEC

9 PATCH LOWER 24" OF GYP BD TO MATCH (E)

10 FLUID-APPLIED TRAFFIC COATING OVER (E) CONCRETE AT PATIO

11 PROVIDE 4" CONC CURB ANCHORED TO (E) SLAB W/ #5 DOWELS W/ STD 90 HOOK W/ HIT-RE 500 V3 W/ 4" EMBED @ 32" OC MAX AND #4 HORIZ. ROUGHEN (E) CONC SURFACE AND SET IN BONDING ADHESIVE PRIOR TO PLACEMENT OF (N) CURB.

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CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
STATE OF OREGON

△	DESCRIPTION	DATE:

PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

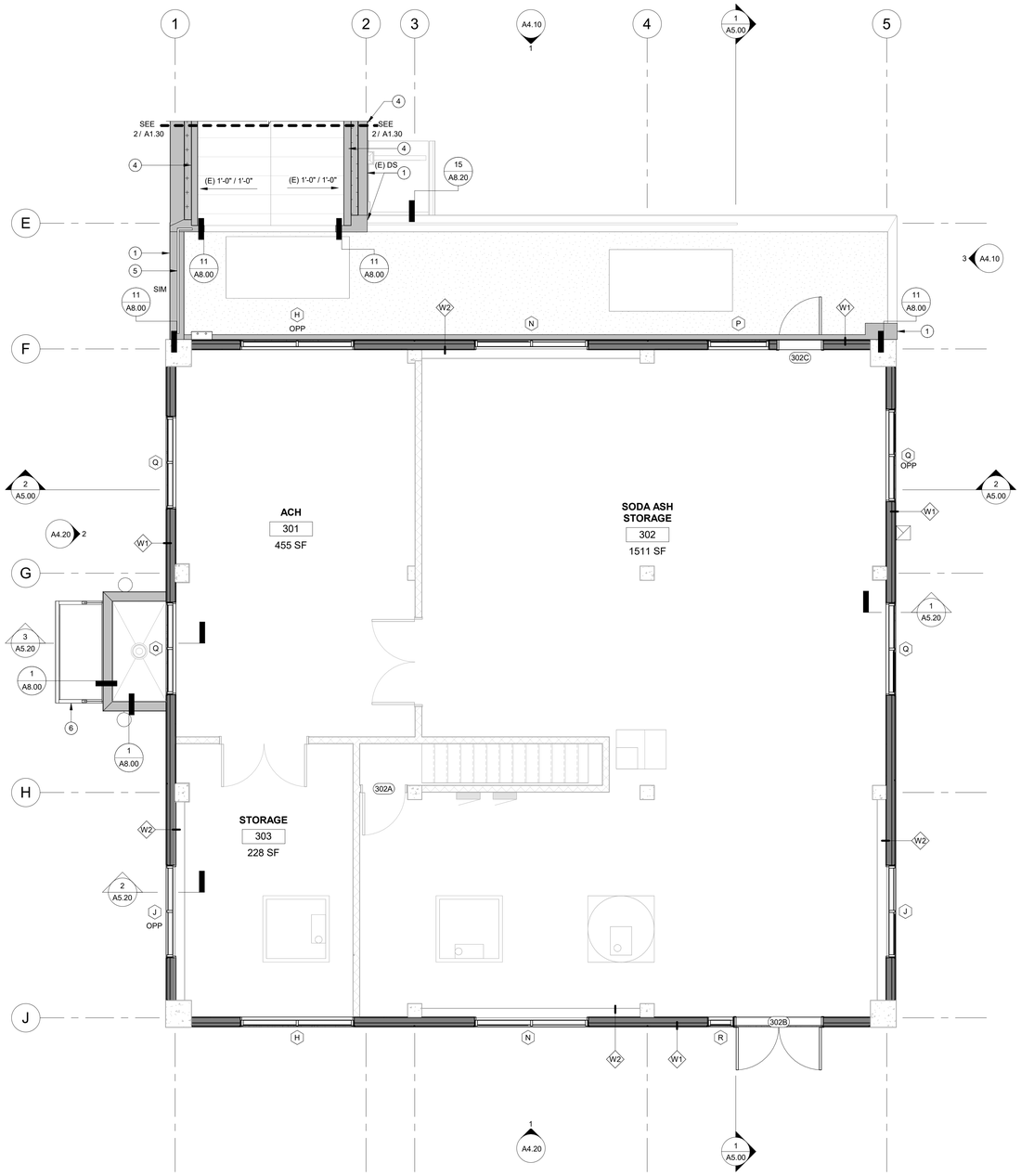
SECOND FLOOR PLAN

A1.20

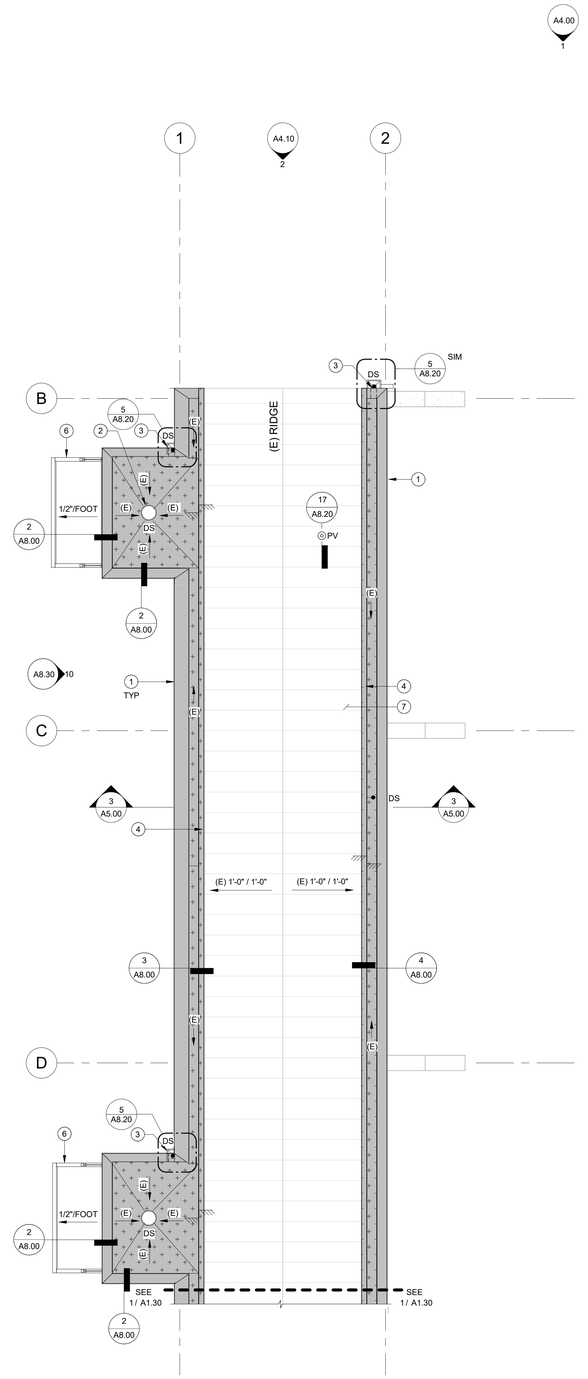
BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

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1 THIRD FLOOR PLAN
A1.30 1/4" = 1'-0"



2 ROOF PLAN - CONFERENCE ROOM
A1.30 1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. VERIFY ALL DIMENSIONS AND NOTIFY PROJECT TEAM IF DISCREPANCIES OCCUR.

B. G.C. TO PROVIDE FIRE BLOCKING AS REQUIRED PER CODE.

C. G.C. SHALL PROVIDE ALL APPROPRIATE BACKING AS REQUIRED FOR ACCESSORIES AND OTHER MISCELLANEOUS ITEMS.

D. G.C. TO COORDINATE INSTALLATION OF ALL UTILITIES WITH RESPECTIVE SUPPLIERS/SUBCONTRACTORS PRIOR TO CONSTRUCTION, TYPICAL.

E. ALL ELECTRICAL, MECHANICAL, PLUMBING, FIRE SUPPRESSION AND LANDSCAPE TO BE DESIGN BUILD PER APPLICABLE CODES.

F. ALL DIMENSION LINES TO THE FACE OF FRAMING, U.N.O.

G. NEW OR RELOCATED DOORS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL OR SHALL BE RELOCATED FOUR INCHES FROM FINISH WALL TO HINGE SIDE OF DOOR.

H. PATCH ALL ABANDONED CORE DRILL HOLES THROUGH CONCRETE FLOOR SLAB.

FLOOR PLAN LEGEND

- (E) CONC COLUMN TO REMAIN
- CONC PATCH OF (E) SLAB - SEE DETAIL 5/A9.00
- CAST UNDERLAYMENT
- VINYL ESTER COATING
- TRAFFIC COATING OVER (E) CONC FLOOR
- (N) WALL, SEE ASSEMBLIES A0.10
- (E) CONC WALL TO REMAIN
- (E) CMU WALL TO REMAIN
- INDICATES (1) HR FIRE PARTITION
- INDICATES (2) HR FIRE WALL

ROOF PLAN LEGEND

- (E) MEMBRANE ROOFING
- (E) METAL ROOFING
- TRAFFIC COATING ROOF COVERING OVER (E) CONCRETE ROOF DECK AND INTERNAL GUTTER
- INDICATES (N) ITEM
- INDICATES ROOF STEP
- DS DOWNSPOUT
- PV PIPE VENT THRU (E) ROOF
- ROOF SLOPE (ALWAYS INDICATES DOWN)

KEYNOTES

1 SHEET METAL COPING W/ HEMMED EDGES AND VERTICAL SEAM AT 10'-0" MAX
2 REINSTALL DRAIN BASKET ON (E) ROOF DRAIN
3 CORE DRILL OPENING IN (E) CONC PARAPET FOR A (N) 4"W X 4"H STAINLESS STEEL OVERFLOW SCUPPER ABOVE CONDUCTOR HEAD, DO NOT DRILL THROUGH (E) REBAR
4 PREFINISHED SHEET METAL EDGE FLASHING
5 REINSTALL (E) GUARDRAIL. SEAL ANCHOR BOLT AND STEEL PLATE TO (N) PREFINISHED SHEET METAL FLASHING W/ PMMA PER FLUID-APPLIED WATERPROOFING MFR INSTRUCTIONS
6 7' - 6" X 3' - 6" PREMANUFACTURED METAL AWNING ON HANGER RODS, DELEGATED DESIGN
7 PAINT (E) MTL ROOF PT5

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WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
STATE OF OREGON

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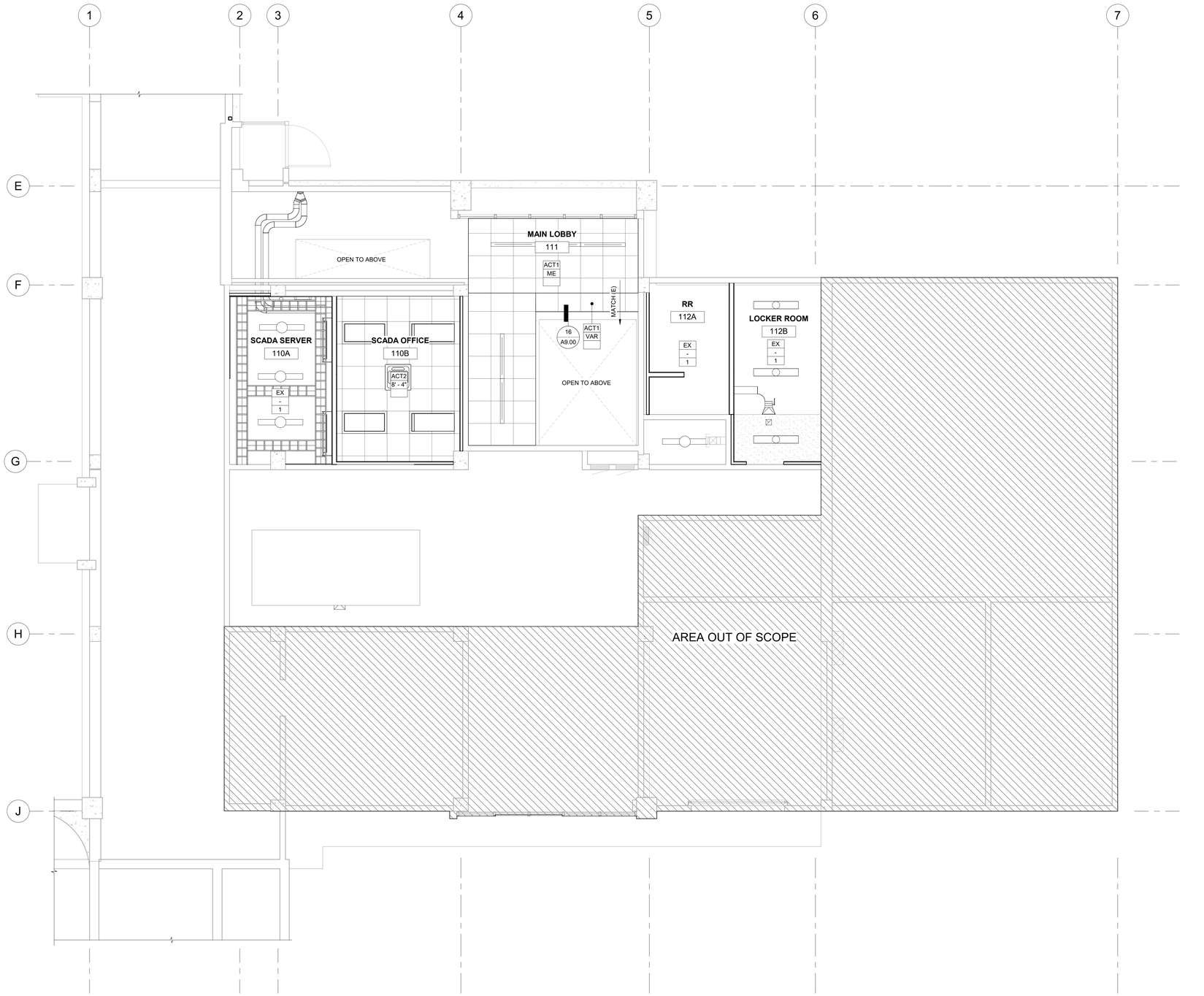
PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

THIRD FLOOR PLAN AND ROOF PLAN

A1.30

BID AND PERMIT SET

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ONE INCH EQUALS FULL SCALE



1 A2.10 REFLECTED CEILING PLAN - FIRST FLOOR
1/4" = 1'-0"

RCP GENERAL NOTES

A. REFER TO ARCHITECTURAL FLOOR PLAN FOR ADDITIONAL DIMENSIONS.

B. ALL DIMENSIONS ARE REFERENCED TO FACE OF FRAMING U.N.O.

C. ALL HEIGHT REFERENCES ARE TAKEN FROM DATUM-T.O.S. FOR AREA INDICATED.

D. PROVIDE WALL BACKING FOR REINFORCEMENT AS REQUIRED.

E. PROVIDE SOLID BLOCKING FOR ALL 'J' BOXES SUSPENDED LIGHT AND CEILING FAN FIXTURES, TELEVISION SUPPORT, ARTIFACT SHELVES AND ANY OTHER CEILING MOUNTED EQUIPMENT.

F. ANY LIGHT NOT DIMENSIONALLY LOCATED TO BE CENTERED IN THE CEILING AREA OR ROOM AS APPLICABLE. ALL "CAN" TYPE FIXTURES TO BE MOUNTED IN THE CENTER OF THE CEILING TILES U.N.O.

G. THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL BE NOT LESS THAN 1 FOOTCANDLE AT THE WALKING SURFACE. ALONG EXIT ACCESS STAIRWAYS, EXIT STAIRWAYS AND AT THEIR REQUIRED LANDINGS, THE ILLUMINATION LEVEL SHALL NOT BE LESS THAN 10 FOOTCANDLES AT THE WALKING SURFACE WHEN THE STAIRWAY IS IN USE.

H. PROVIDE OCCUPANCY SENSORS AND EMERGENCY BATTERY BACKUP IN ALL SPACES RECEIVING NEW LIGHTING.

I. ALL EXPOSED CONDUITS AND 'J' BOXES SHALL BE PAINTED TO MATCH THE ADJACENT FINISH U.N.O.

J. ALL ROOMS THAT ARE TO RECEIVE A CEILING PATCH SHALL BE PAINTED **PTX** IN ITS ENTIRETY U.N.O.

RCP LEGEND

(N) SUSPENDED GYP BD CEILING

(N) ACT CEILING

LIGHTING FIXTURE - SEE ELEC

MECHANICAL UNIT - SEE MECH

CEILING FINISHES

ACT	2X2 ACOUSTICAL LAY-IN PANEL
BAF	ACOUSTICAL BAFFLE
EX	EXPOSED TO STRUCTURE
GYP	GYPUSM BOARD

CEILING HEIGHT

VAR	VARIES
TTS	TIGHT TO STRUCTURE

ADDITIONAL NOTES

1. PAINT EXPOSED CONC DECK AND BEAMS PT6
2. REMOVE AND REINSTALL ACT PANELS AS REQ'D FOR MEPT WORK. SEE MEPT DRAWINGS FOR FURTHER INFO

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Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
STATE OF OREGON

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REVIEWED:	MJC
DATE:	08-07-2026

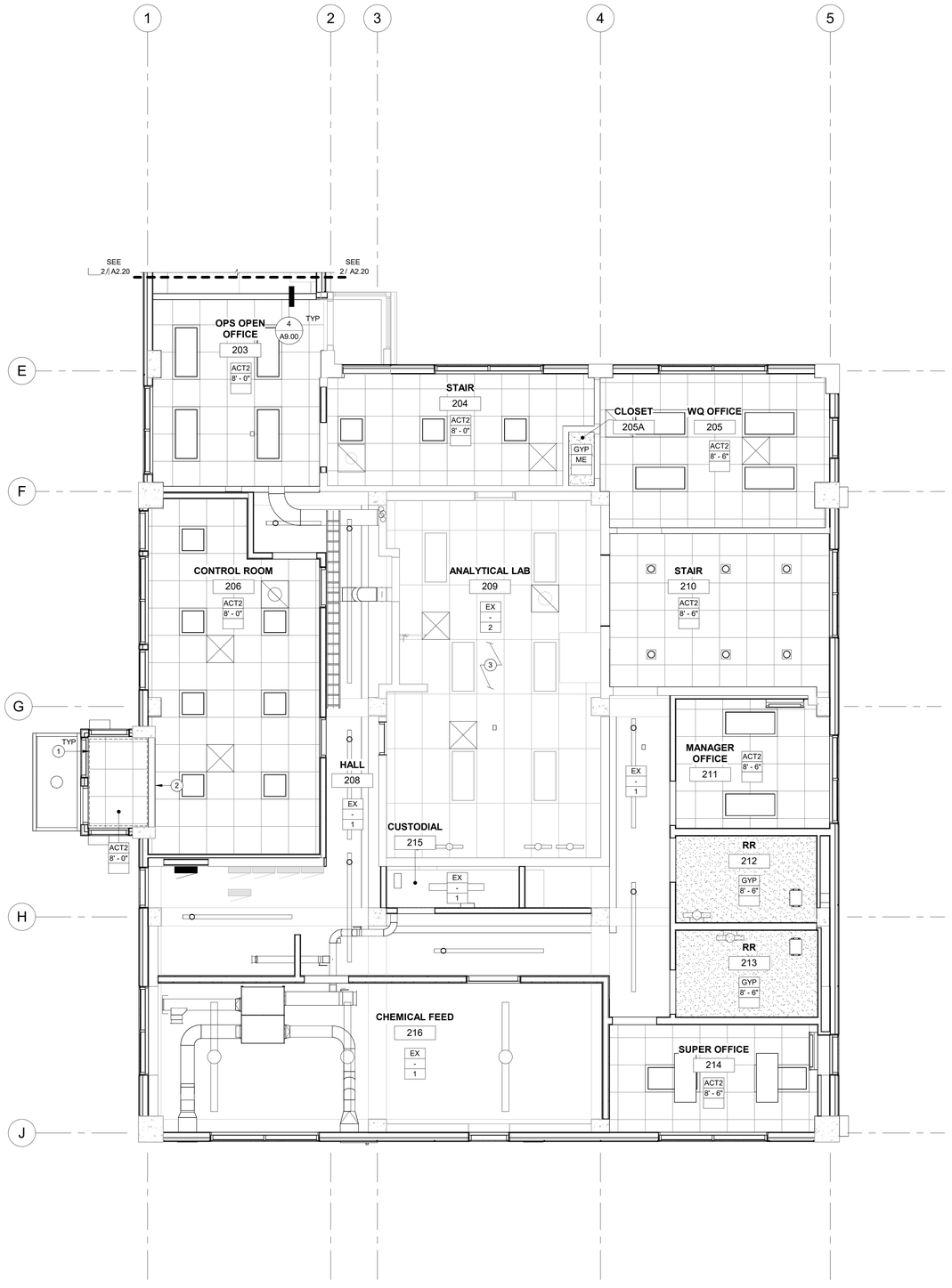
FIRST FLOOR REFLECTED CEILING PLAN

A2.10

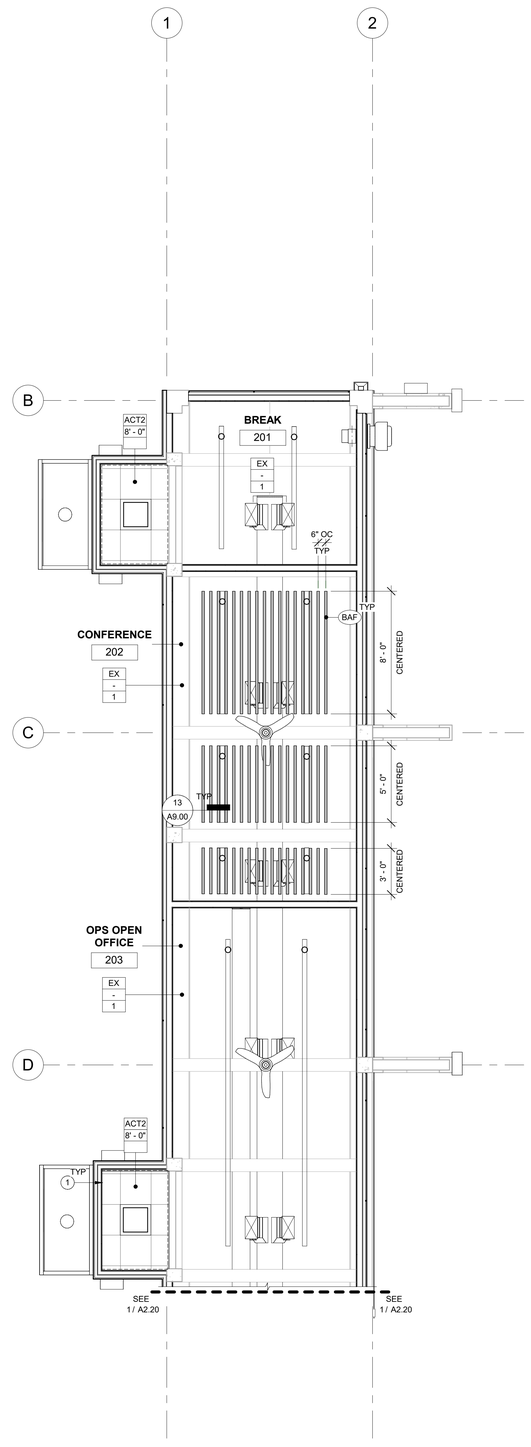
BID AND PERMIT SET

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1 / A2.20 REFLECTED CEILING PLAN - SECOND FLOOR
1/4" = 1'-0"



2 / A2.20 REFLECTED CEILING PLAN - NORTH WING
1/4" = 1'-0"

RCP GENERAL NOTES

A. REFER TO ARCHITECTURAL FLOOR PLAN FOR ADDITIONAL DIMENSIONS.

B. ALL DIMENSIONS ARE REFERENCED TO FACE OF FRAMING U.N.O.

C. ALL HEIGHT REFERENCES ARE TAKEN FROM DATUM-T.O.S. FOR AREA INDICATED.

D. PROVIDE WALL BACKING FOR REINFORCEMENT AS REQUIRED.

E. PROVIDE SOLID BLOCKING FOR ALL 'J' BOXES SUSPENDED LIGHT AND CEILING FAN FIXTURES, TELEVISION SUPPORT, ARTIFACT SHELVES AND ANY OTHER CEILING MOUNTED EQUIPMENT.

F. ANY LIGHT NOT DIMENSIONALLY LOCATED TO BE CENTERED IN THE CEILING AREA OR ROOM AS APPLICABLE. ALL "CAN" TYPE FIXTURES TO BE MOUNTED IN THE CENTER OF THE CEILING TILES U.N.O.

G. THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL BE NOT LESS THAN 1 FOOTCANDLE AT THE WALKING SURFACE. ALONG EXIT ACCESS STAIRWAYS, EXIT STAIRWAYS AND AT THEIR REQUIRED LANDINGS, THE ILLUMINATION LEVEL SHALL NOT BE LESS THAN 10 FOOTCANDLES AT THE WALKING SURFACE WHEN THE STAIRWAY IS IN USE.

H. PROVIDE OCCUPANCY SENSORS AND EMERGENCY BATTERY BACKUP IN ALL SPACES RECEIVING NEW LIGHTING.

I. ALL EXPOSED CONDUITS AND 'J' BOXES SHALL BE PAINTED TO MATCH THE ADJACENT FINISH U.N.O.

J. ALL ROOMS THAT ARE TO RECEIVE A CEILING PATCH SHALL BE PAINTED **PTX** IN ITS ENTIRETY U.N.O.

RCP LEGEND

(N) SUSPENDED GYP BD CEILING

(N) ACT CEILING

LIGHTING FIXTURE - SEE ELEC

MECHANICAL UNIT - SEE MECH

CEILING FINISHES

ACT	2X2 ACOUSTICAL LAY-IN PANEL
BAF	ACOUSTICAL BAFFLE
EX	EXPOSED TO STRUCTURE
GYP	GYPUSM BOARD

CEILING HEIGHT

VAR	VARIES
TTS	TIGHT TO STRUCTURE

ADDITIONAL NOTES

1. PAINT EXPOSED CONC DECK AND BEAMS PT6
2. REMOVE AND REINSTALL ACT PANELS AS REQ'D FOR MEPT WORK. SEE MEPT DRAWINGS FOR FURTHER INFO

(#) KEYNOTES

1 R-30 SPRAY FOAM AT BOTTOM OF CONCRETE ROOF DECK WITH 400S 137-33 [33] CEILING JOIST AT 16" OC WITH 1/2" GYP BD COVER OVER SPRAY FOAM INSULATION

2 PATCH GYP BD WHERE DOOR FRAME WAS DEMOLISHED

3 REMOVE AND REINSTALL ACT PANELS AS REQ'D FOR MEPT WORK. SEE MEPT DRAWINGS FOR FURTHER INFO

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WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT Matthew J. Crawford OREGON JULY 19, 2016 STATE OF OREGON

△	DESCRIPTION	DATE:

PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

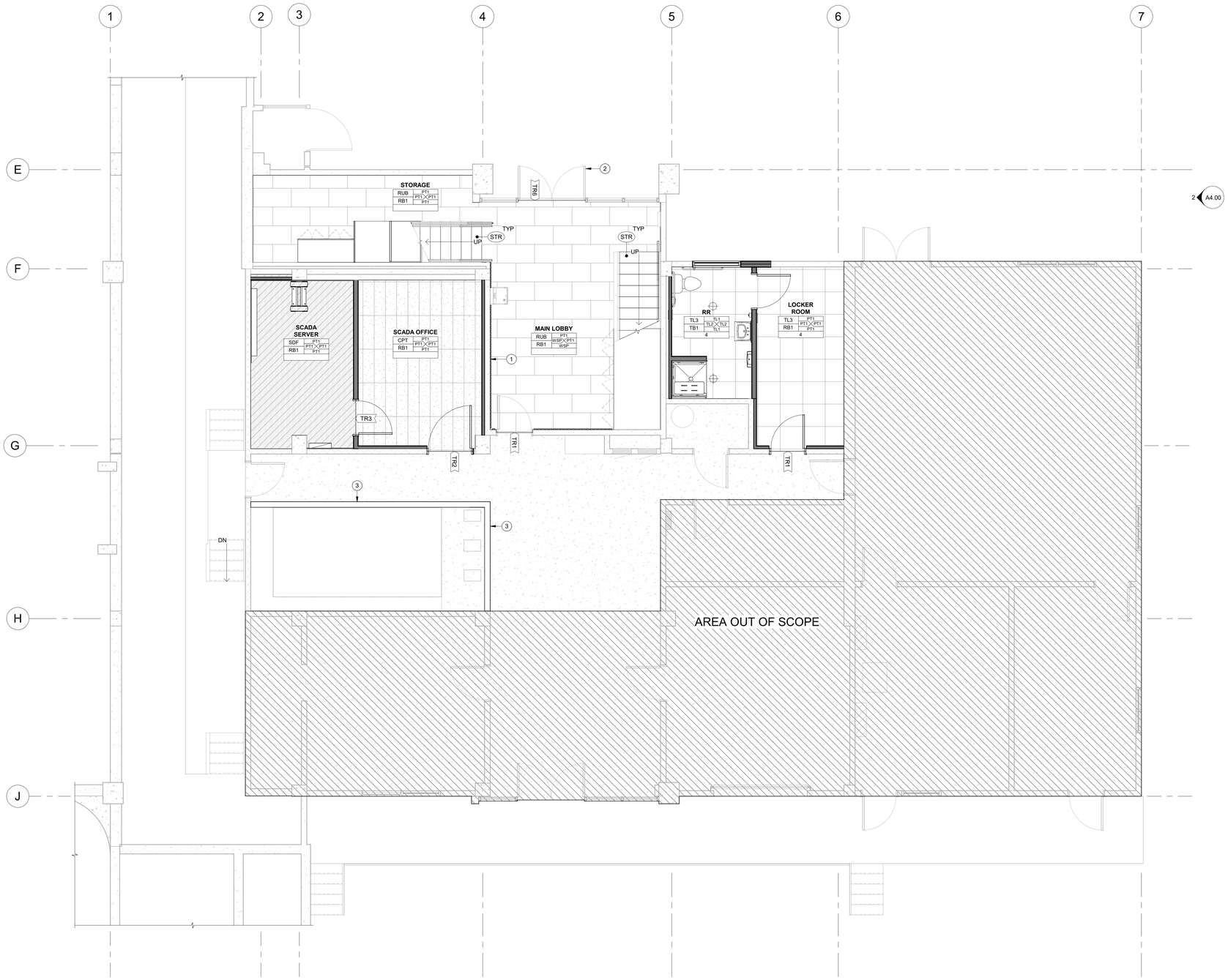
SECOND FLOOR REFLECTED CEILING PLAN

A2.20

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

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1 A3.10 FIRST FLOOR FINISH PLAN

1/4" = 1'-0"

FINISH PLAN GENERAL NOTES

A. ALL PRODUCTS ARE TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS, USING MANUFACTURERS ADHESIVES, TOOLS AND METHODS.

B. REFER TO SPECIFICATIONS AND FINISH SCHEDULES FOR FURTHER FINISH MATERIAL PRODUCT INFORMATION.

C. SEE ELEVATIONS FOR ADDITIONAL FINISHES

D. FOR CEILING HEIGHTS AND ADDITIONAL FINISHES SEE RCP

E. COORDINATE ALL OWNER FURNISHED EQUIPMENT, ACCESSORIES, AND FURNITURE WITH OWNER.

F. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

G. ALL FLOOR TRANSITIONS ARE TO OCCUR DIRECTLY BENEATH DOOR U.N.O.

H. PROVIDE TRANSITION STRIPS/REDUCERS AT ALL LOCATIONS WHERE DIFFERENT FLOORING MATERIALS MEET. PROVIDE APPROPRIATE TRANSITIONS STRIPS/REDUCERS AT ALL OTHER LOCATIONS BETWEEN DIFFERING MATERIALS U.N.O. SEE TRANSITION CALL OUTS. ALL FLOOR TRANSITIONS TO MEET ACCESSIBILITY REQUIREMENTS.

I. REFER TO FINISH PLAN FOR LOCATION OF CORNER GUARDS. ALL CORNER GUARDS ARE TO BE INSTALLED WITH BOTTOM OF CORNER GUARD AT TOP OF WALL BASE AND EXTEND 48" A.F.F. U.N.O.

J. ALL AFFECTED GYPSUM WALLS, CEILINGS AND SOFFITS SHALL BE PAINTED U.N.O.

K. ALL METAL ACCESS PANELS, COVER PLATES, VENTS AND GRILLES TO BE PAINTED TO MATCH THE SURFACE IT IS LOCATED ON, UNLESS PREFINISHED.

L. ALL BASE CABINETS AND UPPER CABINETS ARE TO RECEIVE PLASTIC LAMINATED ON ALL EXPOSED EXTERIOR SURFACES AS INDICATED ON INTERIOR ELEVATIONS, U.N.O. ALL INTERIOR SURFACES TO RECEIVE WHITE MELAMINE ON ALL CONCEALED SURFACES. RUN WOOD GRAIN IN VERTICAL DIRECTIONS AND USE 0.020" THICK MATCHING PVC T-MOULDING ON CABINET DOORS AND DRAWERS.

M. ALL COUNTERTOPS ARE TO RECEIVE BACKSPLASHES TO MATCH. PROVIDE PAINTABLE SEALANT AT WALL.

N. PAINT VISIBLE PORTION OF INSIDE OF DUCT WORK FLAT BLACK.

O. PAINT SHEEN - INTERIOR AND EXTERIOR WALL AND TRIM: SATIN/EGG SHELL, CEILING & SOFFIT: FLAT/MATTE, INT. DOORS AND FRAMES: SEMI-GLOSS

FINISH LEGEND

- CPT - CARPET TILE
- EPX - EPOXY
- SDF - STATIC DISSIPATING FLOORING
- ID - INTERLOCKING FLOOR DECKING
- RS - RESILIENT SHEET
- RUB - RUBBER TILE
- WOM - WALK OFF MAT
- CG# CORNER GUARD

ROOM FINISH ABBREVIATIONS

FLOORING

ETR	(E) TO REMAIN
CPT	CARPET TILE
EPX#	EPOXY
ID	INTERLOCKING FLOOR DECKING
RUB	RUBBER TILE
SDF	STATIC DISSIPATING FLOORING
STR	STAIR TREAD
TL#	CERAMIC TILE
WOM	WALK OFF MAT

TRANSITIONS

TR#	TRANSITION

BASE

RB#	RUBBER BASE
TB#	TILE BASE

WALL

ETR	(E) TO REMAIN
PT#	PAINT
WSP	WOOD SLAT PANEL

WALL PROTECTION

CG	CORNER GUARD
FRP	FIBER REINFORCED PANEL
TL#	CERAMIC TILE

CASEWORK

PL#	PLASTIC LAMINATE
SS	SOLID SURFACE
EPX#	EPOXY COUNTERTOP

MISCELLANEOUS

RS#	ROLLER SHADE

ADDITIONAL NOTES

1. PATCH AREAS OF EXPOSED CONC SLAB WHERE (E) WALLS WERE DEMO'D W/ (N) EPX1
2. INSTALL FRP FULL HEIGHT
3. PROVIDE INTEGRAL EPOXY COVE BASE @ WALLS. MATCH (E) FLOOR COLOR AND TEXTURE. PREPARE AND RECOAT (E) FLOOR W/ (N) TOPCOAT OVER FULL FLOOR AREA
4. PROVIDE CRACK ISOLATION MEMBRANE BELOW FLOOR TILE
5. INSTALL W/ 4" INTEGRAL COVE BASE

KEYNOTES

1 REINSTALL (E) WALL-MTD MURAL OVER WD SLAT WALL FINISH

2 (E) DOOR FINISH TO REMAIN

3 PROVIDE INTEGRAL EPOXY COVE BASE @ CONC CURB, MATCH COLOR AND TEXTURE OF (E) EPOXY FLOORING. PREP AND RECOAT (E) FLOORING AS REQ'D TO INTEGRATE INTO COVE BASE

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CLACKAMAS COUNTY STAMP

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WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT Matthew J. Crawford EXPIRES: 06/30/2026 STATE OF OREGON

△	DESCRIPTION	DATE:

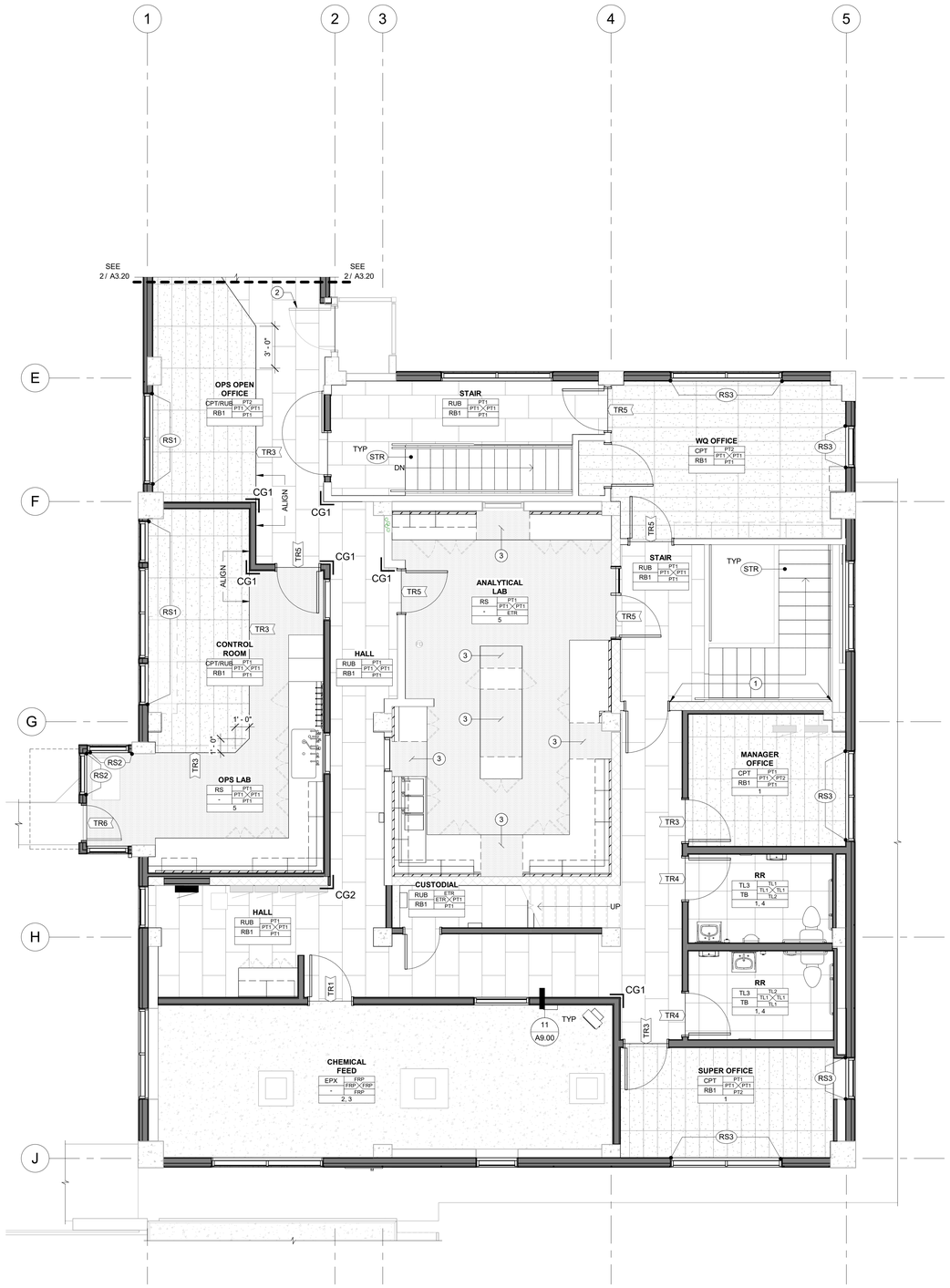
PROJECT NO.	P-3116-26
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FIRST FLOOR FINISH PLAN

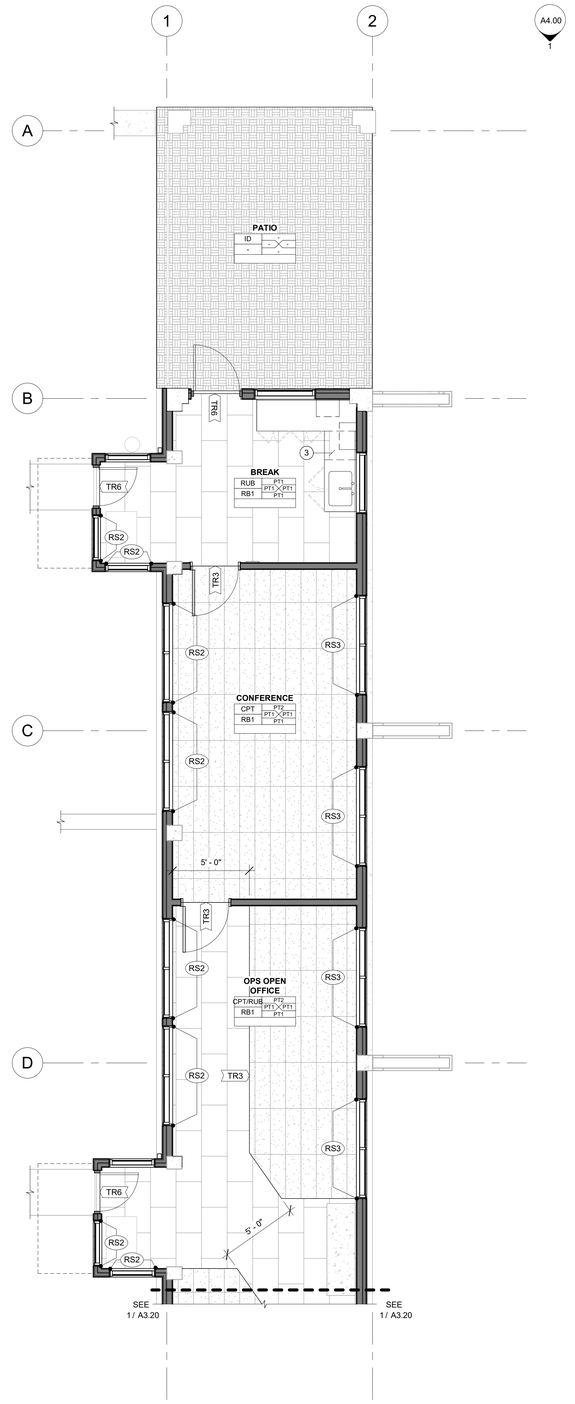
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ONE INCH EQUALS FULL SCALE



1 A3.20 FINISH PLAN
1/4" = 1'-0"



2 A3.20 FINISH PLAN - CONFERENCE ROOM
1/4" = 1'-0"

FINISH PLAN GENERAL NOTES

A. ALL PRODUCTS ARE TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS, USING MANUFACTURERS ADHESIVES, TOOLS AND METHODS.

B. REFER TO SPECIFICATIONS AND FINISH SCHEDULES FOR FURTHER FINISH MATERIAL PRODUCT INFORMATION.

C. SEE ELEVATIONS FOR ADDITIONAL FINISHES

D. FOR CEILING HEIGHTS AND ADDITIONAL FINISHES SEE RCP

E. COORDINATE ALL OWNER FURNISHED EQUIPMENT, ACCESSORIES, AND FURNITURE WITH OWNER.

F. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

G. ALL FLOOR TRANSITIONS ARE TO OCCUR DIRECTLY BENEATH DOOR U.N.O.

H. PROVIDE TRANSITION STRIPS/REDUCERS AT ALL LOCATIONS WHERE DIFFERENT FLOORING MATERIALS MEET. PROVIDE APPROPRIATE TRANSITIONS STRIPS/REDUCERS AT ALL OTHER LOCATIONS BETWEEN DIFFERING MATERIALS U.N.O. SEE TRANSITION CALL OUTS. ALL FLOOR TRANSITIONS TO MEET ACCESSIBILITY REQUIREMENTS.

I. REFER TO FINISH PLAN FOR LOCATION OF CORNER GUARDS. ALL CORNER GUARDS ARE TO BE INSTALLED WITH BOTTOM OF CORNER GUARD AT TOP OF WALL BASE AND EXTEND 48" A.F.F. U.N.O.

J. ALL AFFECTED GYPSUM WALLS, CEILINGS AND SOFFITS SHALL BE PAINTED U.N.O.

K. ALL METAL ACCESS PANELS, COVER PLATES, VENTS AND GRILLES TO BE PAINTED TO MATCH THE SURFACE IT IS LOCATED ON, UNLESS PREFINISHED.

L. ALL BASE CABINETS AND UPPER CABINETS ARE TO RECEIVE PLASTIC LAMINATED ON ALL EXPOSED EXTERIOR SURFACES AS INDICATED ON INTERIOR ELEVATIONS, U.N.O. ALL INTERIOR SURFACES TO RECEIVE WHITE MELAMINE ON ALL CONCEALED SURFACES. RUN WOOD GRAIN IN VERTICAL DIRECTIONS AND USE 0.020" THICK MATCHING PVC T-MOULDING ON CABINET DOORS AND DRAWERS.

M. ALL COUNTERTOPS ARE TO RECEIVE BACKSPLASHES TO MATCH. PROVIDE PAINTABLE SEALANT AT WALL.

N. PAINT VISIBLE PORTION OF INSIDE OF DUCT WORK FLAT BLACK.

O. PAINT SHEEN - INTERIOR AND EXTERIOR WALL AND TRIM: SATIN/EGG SHELL, CEILING & SOFFIT: FLAT/MATTE, INT. DOORS AND FRAMES: SEMI-GLOSS

FINISH LEGEND

- CPT - CARPET TILE
- EPX - EPOXY
- SDF - STATIC DISSIPATING FLOORING
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- RS - RESILIENT SHEET
- RUB - RUBBER TILE
- WOM - WALK OFF MAT
- CG# - CORNER GUARD

ROOM FINISH ABBREVIATIONS

FLOORING

ETR	(E) TO REMAIN
CPT	CARPET TILE
EPX#	EPOXY
ID	INTERLOCKING FLOOR DECKING
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STR	STAIR TREAD
TL#	CERAMIC TILE
WOM	WALK OFF MAT

TRANSITIONS

TR#	TRANSITION

BASE

RB#	RUBBER BASE
TB#	TILE BASE

WALL

ETR	(E) TO REMAIN
PT#	PAINT
WSP	WOOD SLAT PANEL

WALL PROTECTION

CG	CORNER GUARD
FRP	FIBER REINFORCED PANEL
TL#	CERAMIC TILE

CASEWORK

PL#	PLASTIC LAMINATE
SS	SOLID SURFACE
EPX#	EPOXY COUNTERTOP

MISCELLANEOUS

RS#	ROLLER SHADE

ADDITIONAL NOTES

1. PATCH AREAS OF EXPOSED CONC SLAB WHERE (E) WALLS WERE DEMO'D W/ (N) EPX1
2. INSTALL FRP FULL HEIGHT
3. PROVIDE INTEGRAL EPOXY COVE BASE @ WALLS. MATCH (E) FLOOR COLOR AND TEXTURE. PREPARE AND RECOAT (E) FLOOR W/ (N) TOPCOAT OVER FULL FLOOR AREA
4. PROVIDE CRACK ISOLATION MEMBRANE BELOW FLOOR TILE
5. INSTALL W/ 4" INTEGRAL COVE BASE

KEYNOTES

1 PAINTED WATER DISTRICT MAP WALL GRAPHIC

2 PAINT DOOR PT3 AND FRAME PT6

3 EXTEND FLOOR FINISH BELOW COUNTERTOP

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STATE OF OREGON

△	DESCRIPTION	DATE:

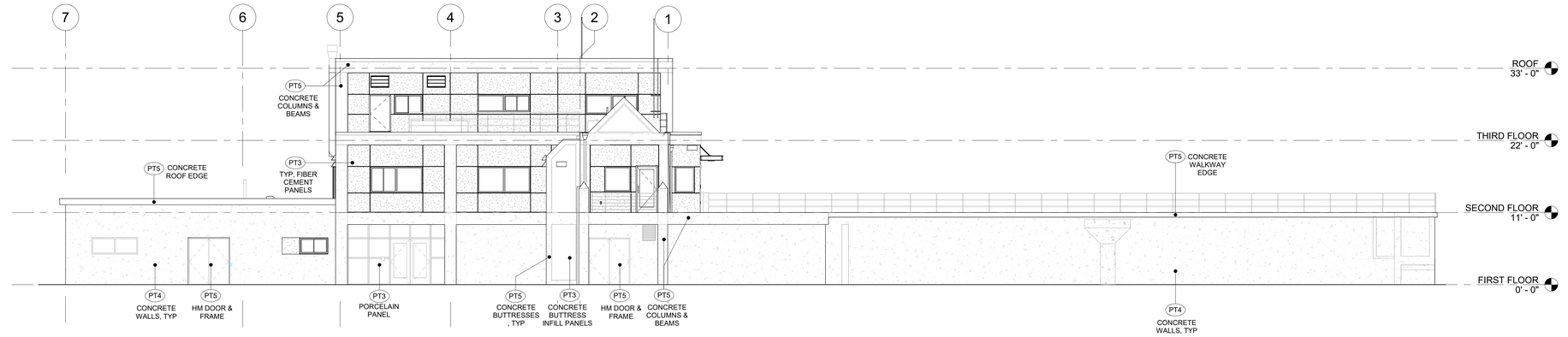
PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

SECOND FLOOR FINISH PLAN

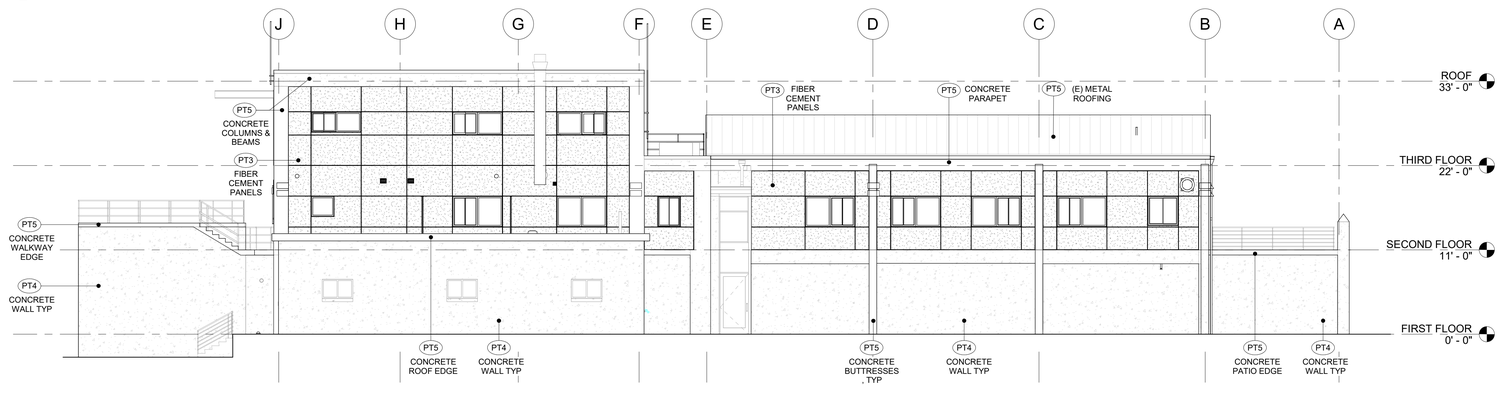
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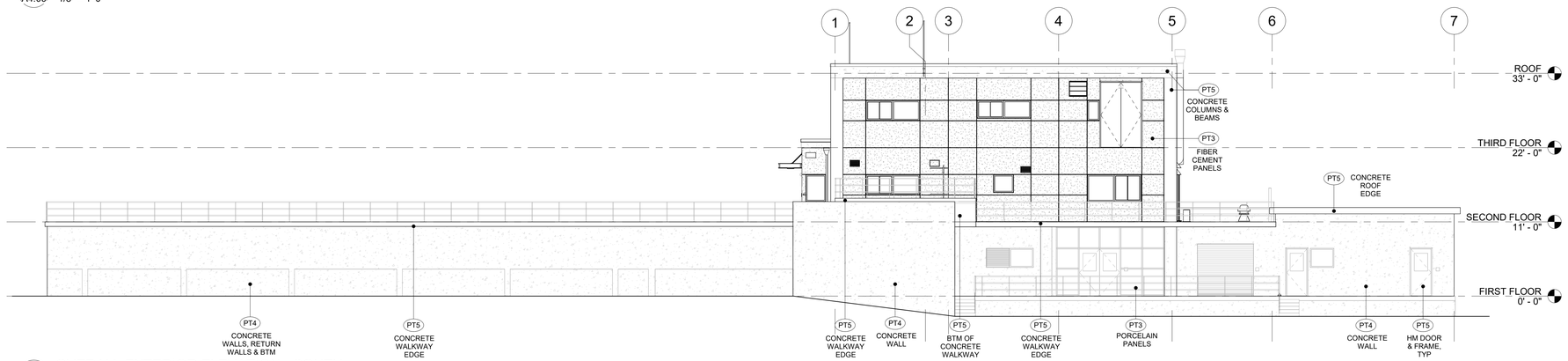
ONE INCH EQUALS FULL SCALE
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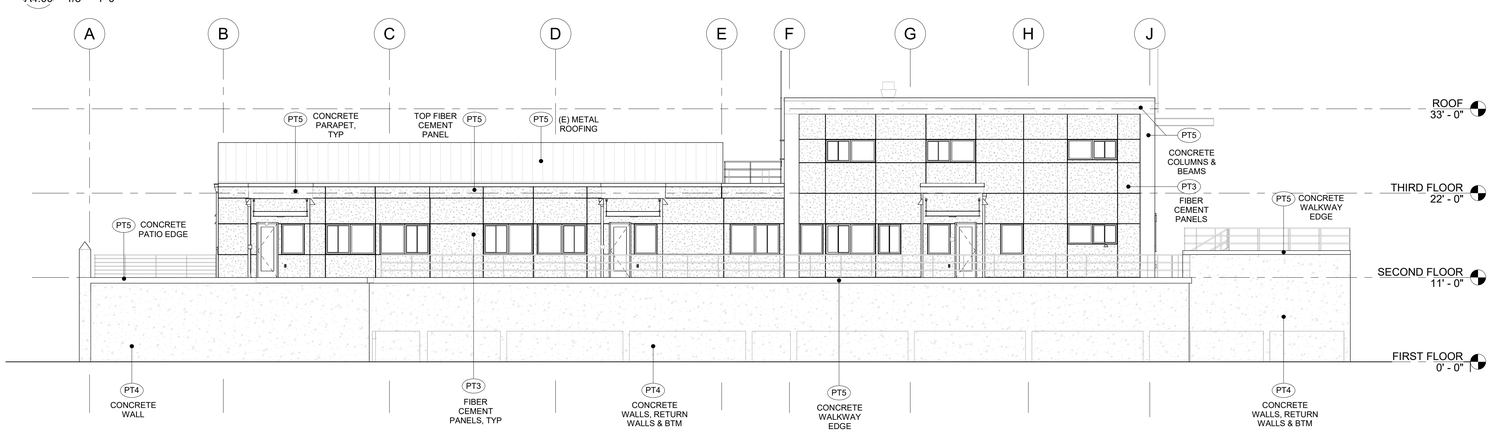
1 A4.00 OVERALL EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"



2 A4.00 OVERALL EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



3 A4.00 OVERALL EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



4 A4.00 OVERALL EXTERIOR ELEVATION - WEST
1/8" = 1'-0"

ELEVATION GENERAL NOTES

A. PREP ALL EXTERIOR SURFACES TO RECEIVE NEW PAINT. FILL ALL CONCRETE CRACKS LARGER THAN 0.01" IN WIDTH. REMOVE LOOSE CONCRETE AND CLEAN AREAS OF SPALLED CONCRETE FOR NEW PAINT.

B. PAINT (E) SURFACE-MOUNT CONDUIT, STEEL SUPPORTS, PIPES, LOUVERS, DUCTS, EXPOSED FACE OF SHEET METAL ROOF EDGE, CONDUCTOR HEAD AND DOWNSPOUTS TO MATCH ADJACENT WALL CALLED OUT TO BE PAINTED.

C. ALL ANODIZED ALUMINUM, LIGHT FIXTURES, PLUMBING FIXTURES, SIGNAGE, VINYL WINDOWS, GALVANIZED HANDRAILS AND GALVANIZED CATWALK SUPPORT TO REMAIN UNPAINTED, UNO

ELEVATION LEGEND

(N) FIBER CEMENT PANEL SIDING

(N) PREFINISHED SHEET METAL WALL FLASHING

(E) CONCRETE COLUMNS, BEAMS AND WALLS

X FINISH TAG; SEE FINISH SCHEDULE

ZCS
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Oregon City, OR 97045
503.659.2205

CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON
JULY 19, 1996
STATE OF OREGON

△	DESCRIPTION	DATE:

PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

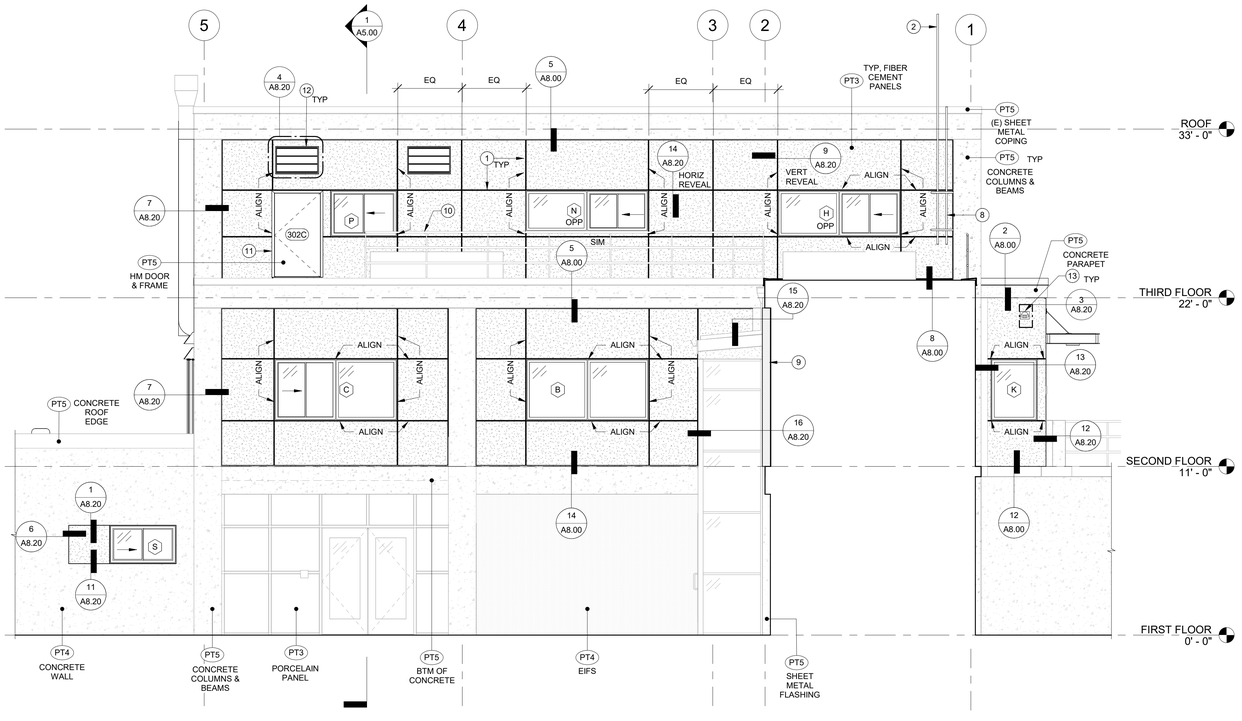
OVERALL EXTERIOR ELEVATIONS

A4.00

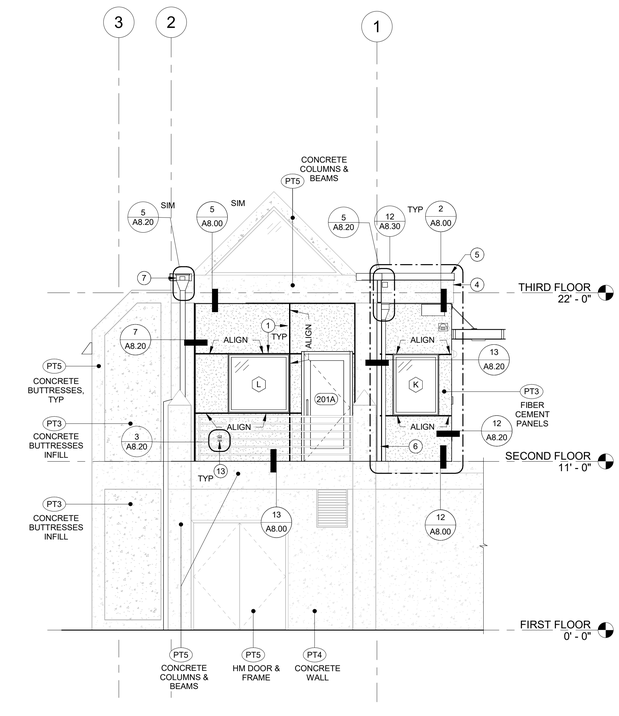
BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

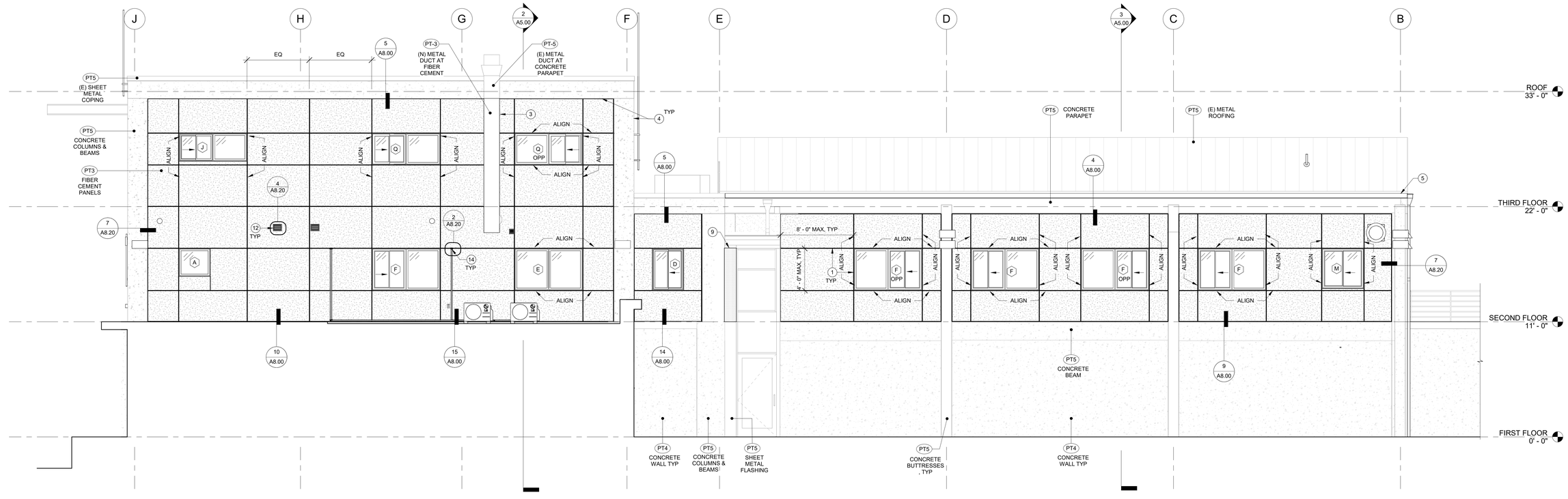
8/7/2026 11:43:05 AM Autodesk Docs://P3116 Clackamas River Water/P3116_ARCH_R26.rvt



1 A4.10 EXTERIOR ELEVATION - NORTH
1/4" = 1'-0"



2 A4.10 EXTERIOR ELEVATION - BREAK ROOM - NORTH
1/4" = 1'-0"



3 A4.10 EXTERIOR ELEVATION - EAST
1/4" = 1'-0"

ELEVATION GENERAL NOTES

A. PREP ALL EXTERIOR SURFACES TO RECEIVE NEW PAINT. FILL ALL CONCRETE CRACKS LARGER THAN 0.01" IN WIDTH. REMOVE LOOSE CONCRETE AND CLEAN AREAS OF SPALLED CONCRETE FOR NEW PAINT.

B. PAINT (E) SURFACE-MOUNT CONDUIT, STEEL SUPPORTS, PIPES, LOUVERS, DUCTS, EXPOSED FACE OF SHEET METAL ROOF EDGE, CONDUCTOR HEAD AND DOWNSPOUTS TO MATCH ADJACENT WALL CALLED OUT TO BE PAINTED.

C. ALL ANODIZED ALUMINUM, LIGHT FIXTURES, PLUMBING FIXTURES, SIGNAGE, VINYL WINDOWS, GALVANIZED HANDRAILS AND GALVANIZED CATWALK SUPPORT TO REMAIN UNPAINTED, UNO

ELEVATION LEGEND

- (N) FIBER CEMENT PANEL SIDING
- (N) PREFINISHED SHEET METAL WALL FLASHING
- (E) CONC WALL, COLUMN AND BEAM
- X — FINISH TAG; SEE FINISH SCHEDULE

KEYNOTES

1 1/2" ALUMINUM REVEALS
2 REINSTALL (E) ELECTRICAL CONDUIT/ANTENNA, PROVIDE FURRING BACKING TO ANCHOR TO (N) WALL. SEE ELEC
3 (N) MECHANICAL DUCT, PROVIDE FURRING BACKING TO ANCHOR TO (N) WALL. SEE MECH
4 (E) CONCRETE COLUMNS AND BEAMS, PAINT
5 PREFINISHED SHEET METAL COPING
6 PREFINISHED EDGE METAL AT WALL END
7 PREFINISHED SHEET METAL CONDUCTOR HEAD AND DOWNSPOUT AT ROOF DRAIN OVERFLOW, DAYLIGHT DRAINAGE OUTLET AT GRADE ON CONC SPLASH BLOCK
8 REINSTALL (E) ANTENNA AND SUPPORT BRACKETS ANCHORED TO (N) WALL, ROUTE CONDUIT IN (N) WALL CAVITY. SEE ELEC
9 MODIFY AND REINSTALL (E) SHEET METAL FLASHING AND FASTEN VERICALLY EACH SIDE WITH STAINLESS STEEL SCREW AND NEOPRENE WASHER AT 12" OC
10 PAINT (E) GUARDRAIL PTX
11 HOLLOW METAL DOOR IN (4) SIDED HOLLOW METAL FRAME
12 MECHANICAL OUTLET LOUVER, SEE MECH DWGS
13 ELECTRICAL PENETRATION THRU WALL, SEE ELECT DWGS
14 PIPE/CONDUIT PENETRATION THRU WALL, SEE MECH/ELEC DRAWINGS

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CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
FOR
STATE OF OREGON

△	DESCRIPTION	DATE:

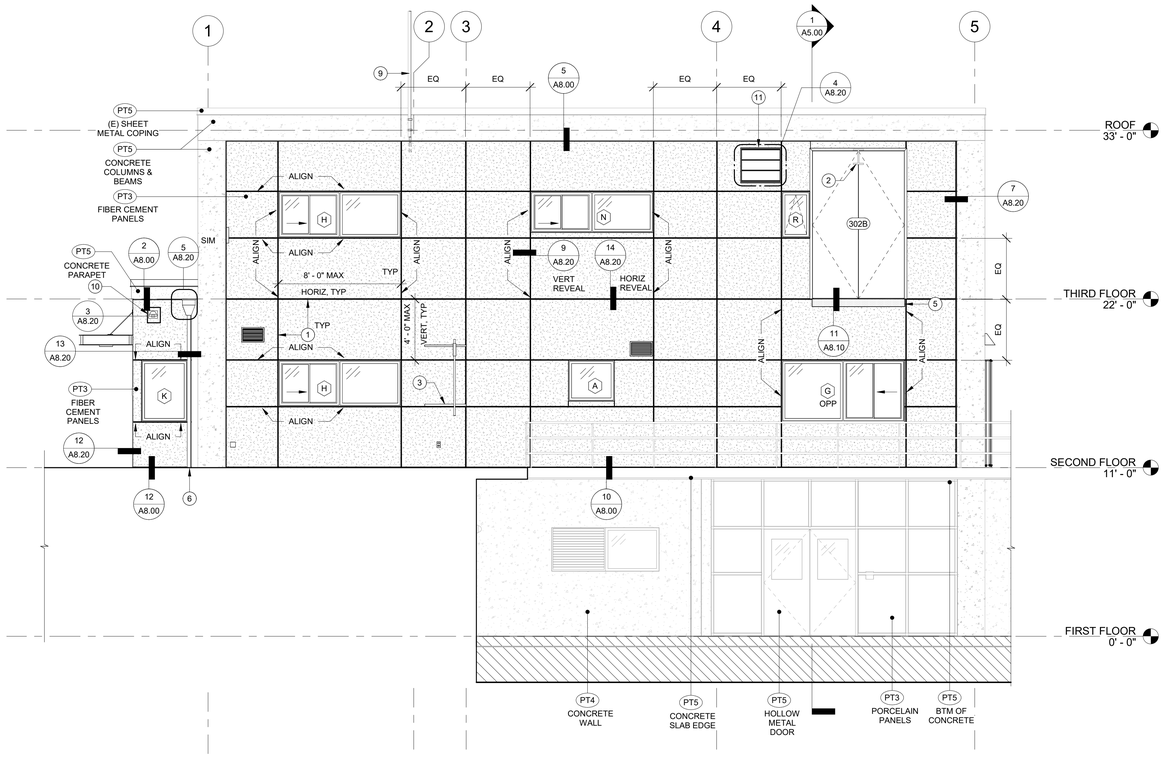
PROJECT NO.	P-3116-26
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DATE:	08-07-2026

EXTERIOR ELEVATIONS

A4.10

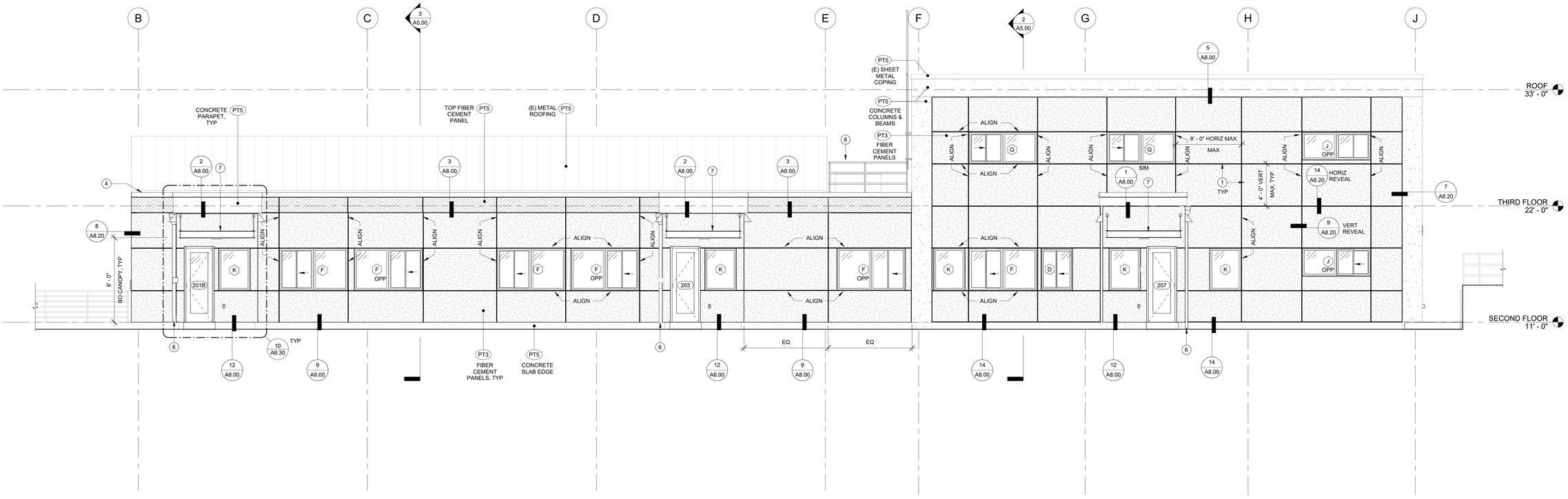
BID AND PERMIT SET

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8/7/2026 11:43:08 AM
ONE INCH EQUALS FULL SCALE



1 A4.20 EXTERIOR ELEVATION - SOUTH

1/4" = 1'-0"



2 A4.20 EXTERIOR ELEVATION - WEST

1/4" = 1'-0"

ONE INCH EQUALS FULL SCALE

8/7/2026 11:43:10 AM Autodesk Docs://P3116.Clackamas River Water/P3116_ARCH_R26.rvt

ELEVATION GENERAL NOTES

A. PREP ALL EXTERIOR SURFACES TO RECEIVE NEW PAINT. FILL ALL CONCRETE CRACKS LARGER THAN 0.01" IN WIDTH. REMOVE LOOSE CONCRETE AND CLEAN AREAS OF SPALLED CONCRETE FOR NEW PAINT.

B. PAINT (E) SURFACE-MOUNT CONDUIT, STEEL SUPPORTS, PIPES, LOUVERS, DUCTS, EXPOSED FACE OF SHEET METAL ROOF EDGE, CONDUCTOR HEAD AND DOWNSPOUTS TO MATCH ADJACENT WALL CALLED OUT TO BE PAINTED.

C. ALL ANODIZED ALUMINUM, LIGHT FIXTURES, PLUMBING FIXTURES, SIGNAGE, VINYL WINDOWS, GALVANIZED HANDRAILS AND GALVANIZED CATWALK SUPPORT TO REMAIN UNPAINTED, UNO

ELEVATION LEGEND

- (N) FIBER CEMENT PANEL SIDING
- (N) PREFINISHED SHEET METAL WALL FLASHING
- (E) CONC WALL, COLUMN AND BEAM
- X — FINISH TAG; SEE FINISH SCHEDULE

KEYNOTES

1 1/2" ALUMINUM REVEALS

2 (E) HOIST BEAM, PAINT

3 REINSTALL (E) ELECTRICAL CONDUIT/ANTENNA, PROVIDE FURRING BACKING TO ANCHOR TO (N) WALL. SEE ELEC

4 PREFINISHED SHEET METAL COPING

5 PREFINISHED SHEET METAL WALL FLASHING OVER (E) FLOOR SLAB EDGE

6 PREFINISHED SHEET METAL CONDUCTOR HEAD AND DOWNSPOUT, CONNECT (E) ROOF DRAIN OUTLET AT TOP AND (E) ROOF DRAIN OUTLET AT FLOOR

7 7' - 6" X 3' - 6" PREMANUFACTURED METAL AWNING ON HANGER RODS, DELEGATED DESIGN

8 REINSTALL (E) GUARDRAIL. SEAL ANCHOR BOLT AND STEEL PLATE TO (N) PREFINISHED SHEET METAL FLASHING W/ PMMA PER FLUID-APPLIED WATERPROOFING MFR INSTRUCTIONS

9 REINSTALL (E) ANTENNA AND SUPPORT BRACKETS ANCHORED TO (N) WALL, ROUTE CONDUIT IN (N) WALL CAVITY. SEE ELEC

10 ELECTRICAL PENETRATION THRU WALL, SEE ELECT DWGS

11 DEMO LOUVER AND DUCT OUTLET. SEE MECH

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CLACKAMAS COUNTY STAMP

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WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
STATE OF OREGON

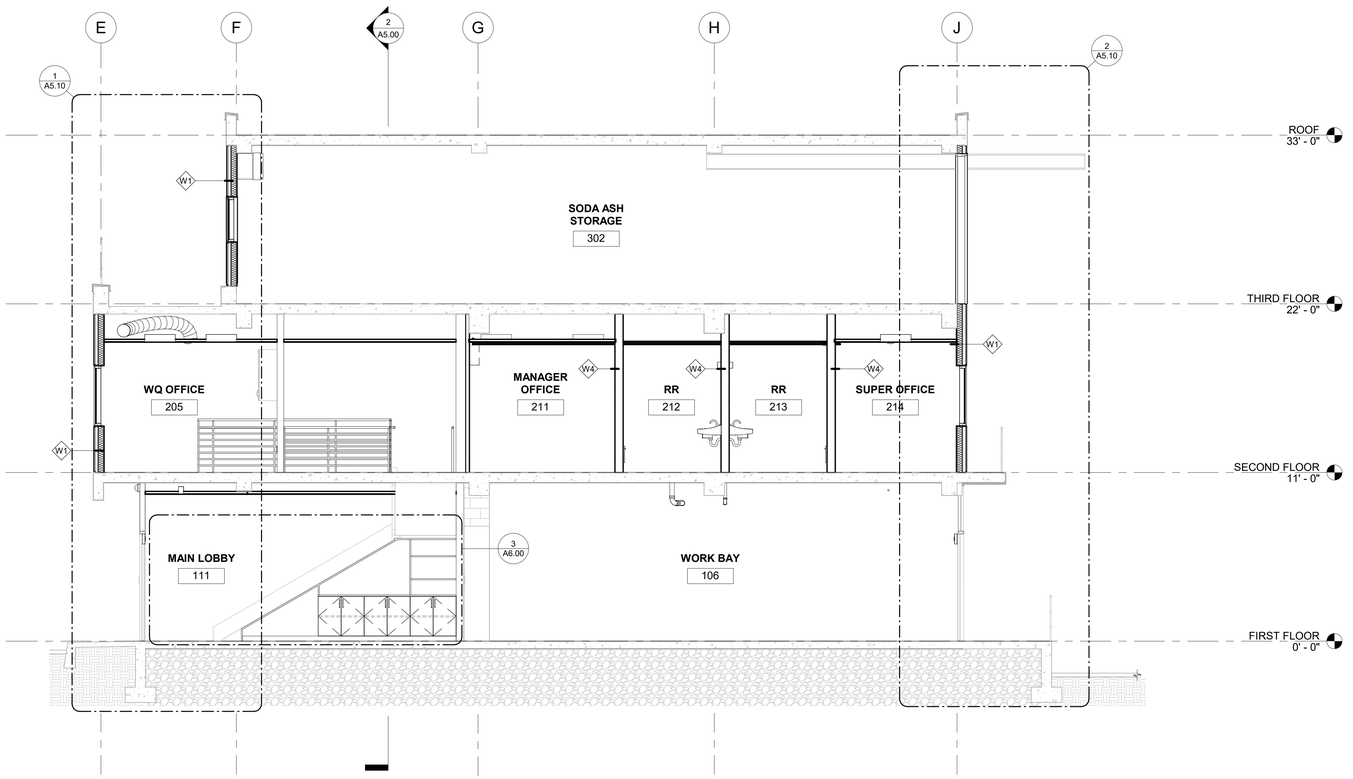
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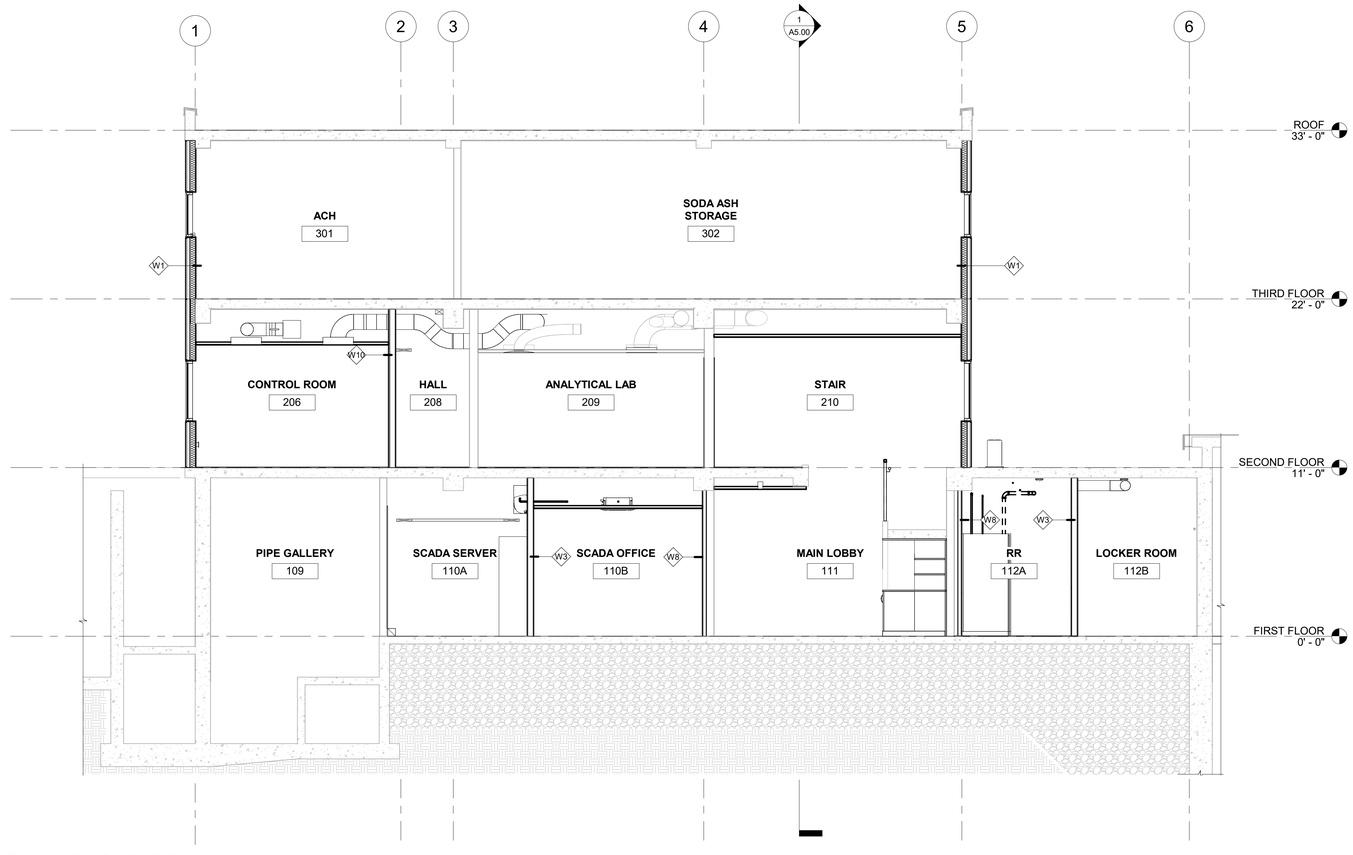
EXTERIOR ELEVATIONS

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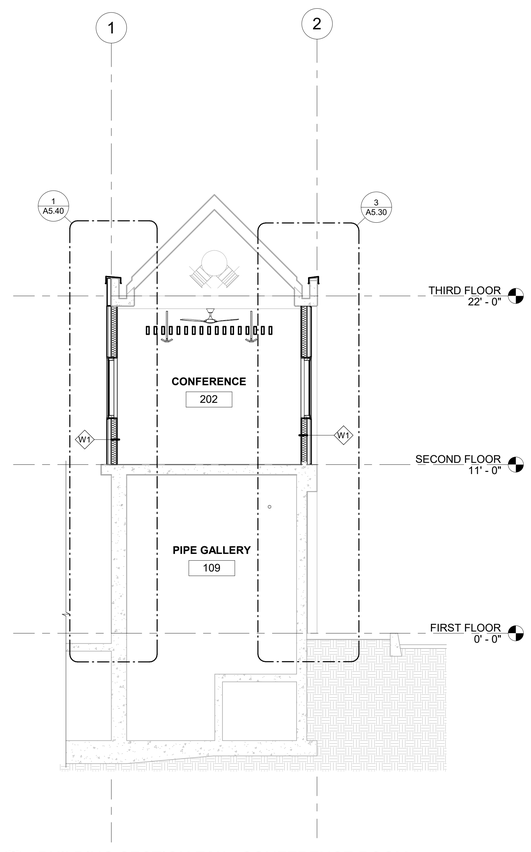
BID AND PERMIT SET



1 A5.00 BUILDING SECTION - N/S
1/4" = 1'-0"



2 A5.00 BUILDING SECTION - E/W
1/4" = 1'-0"



3 A5.00 BUILDING SECTION E/W - CONFERENCE ROOM
1/4" = 1'-0"

ONE INCH EQUALS FULL SCALE

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Clackamas River Water

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Matthew J. Crawford
OREGON CITY, OR
2026
STATE OF OREGON

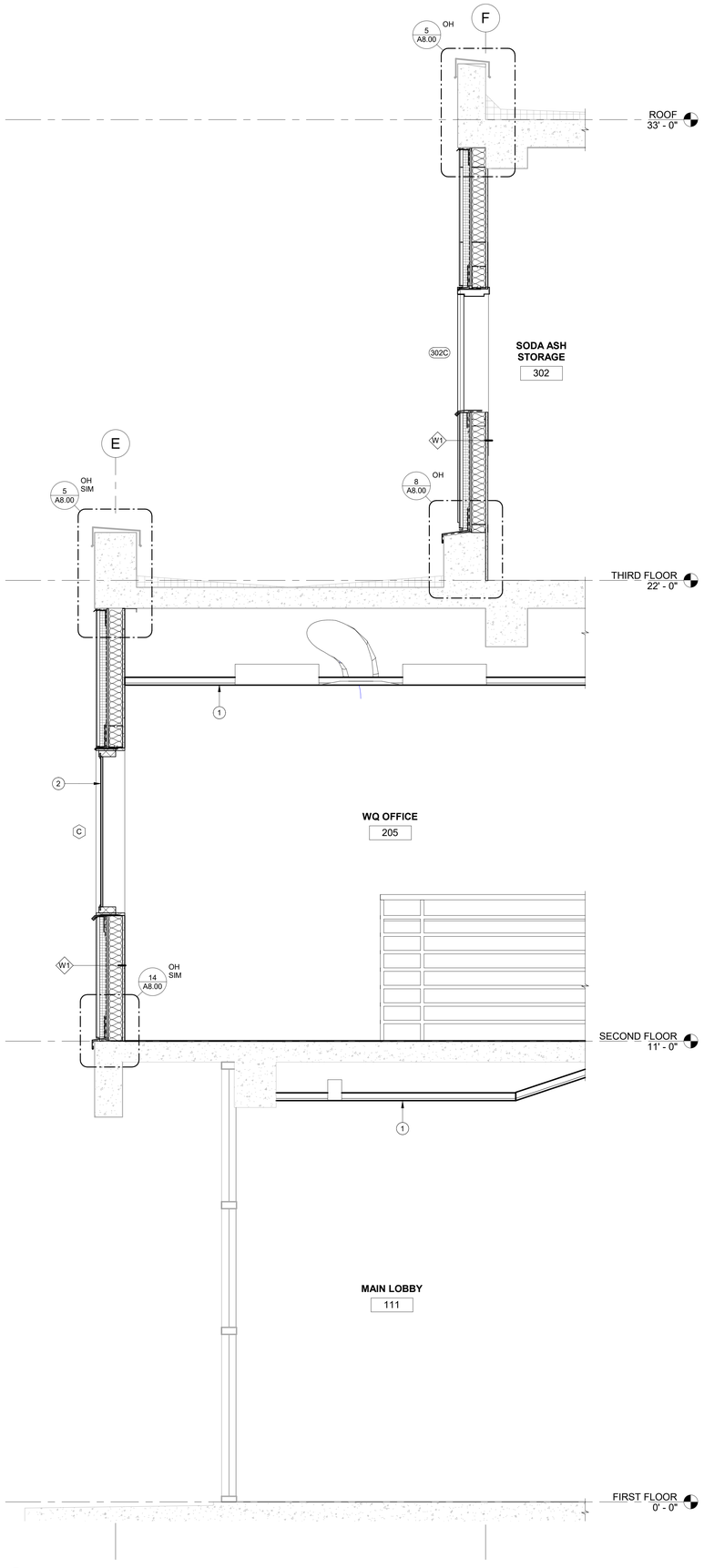
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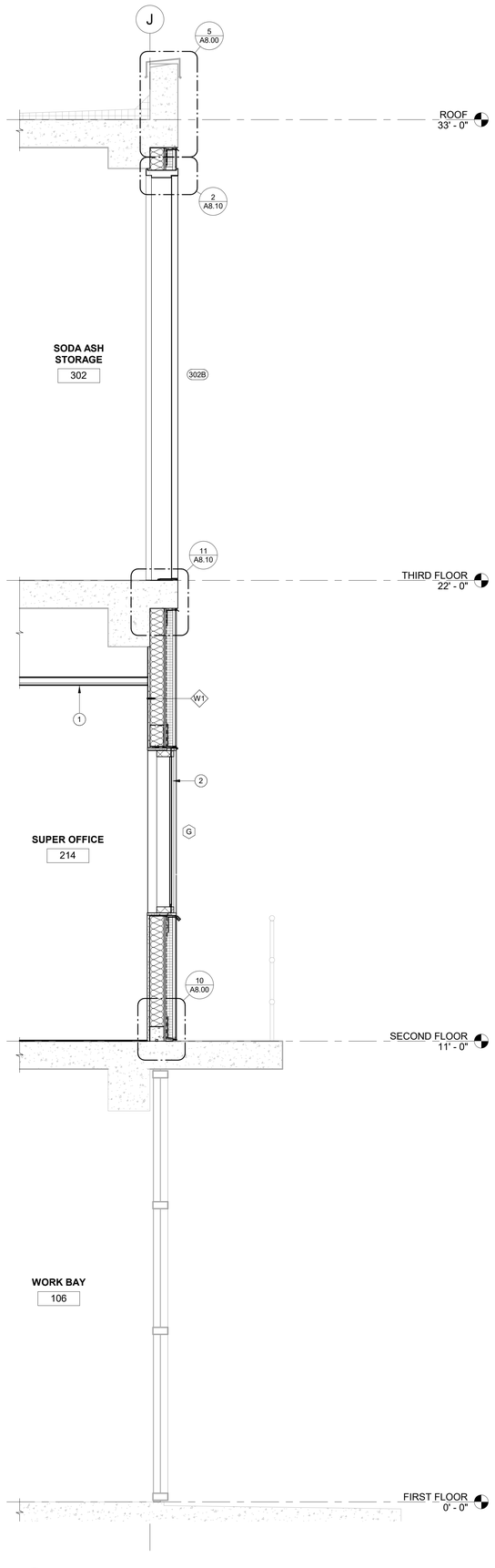
BUILDING SECTIONS

A5.00

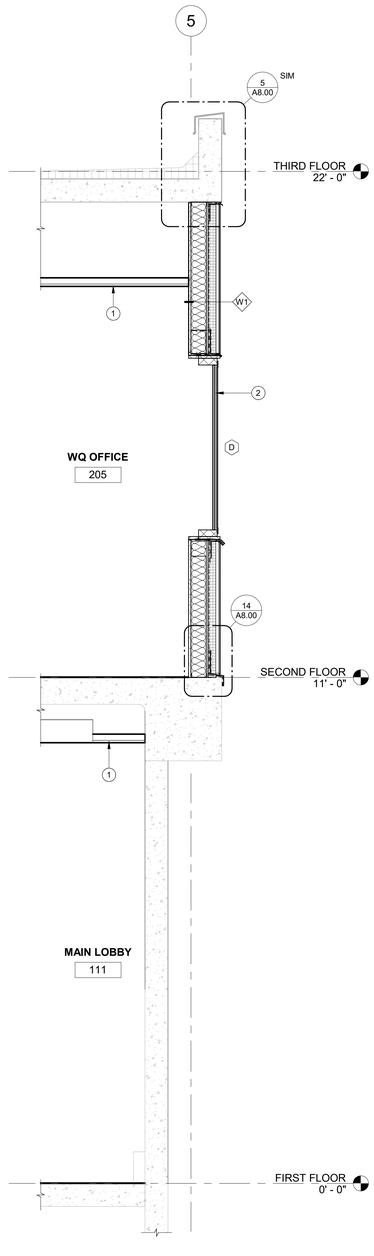
BID AND PERMIT SET



1 WALL SECTION - GL D
A5.10 3/4" = 1'-0"



2 WALL SECTION - GL J
A5.10 3/4" = 1'-0"



3 WALL SECTION - GL 5 - LAB OFFICE 205
A5.10 3/4" = 1'-0"

KEYNOTES

1 ACT CEILING, SEE RCP FOR HEIGHT

2 WINDOW, SEE SCHEDULE ON A0.20 FOR TYPE, SIZE AND SILL HEIGHT

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CLACKAMAS COUNTY STAMP

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Clackamas River Water

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Matthew J. Crawford
OREGON CITY, OR
STATE OF OREGON

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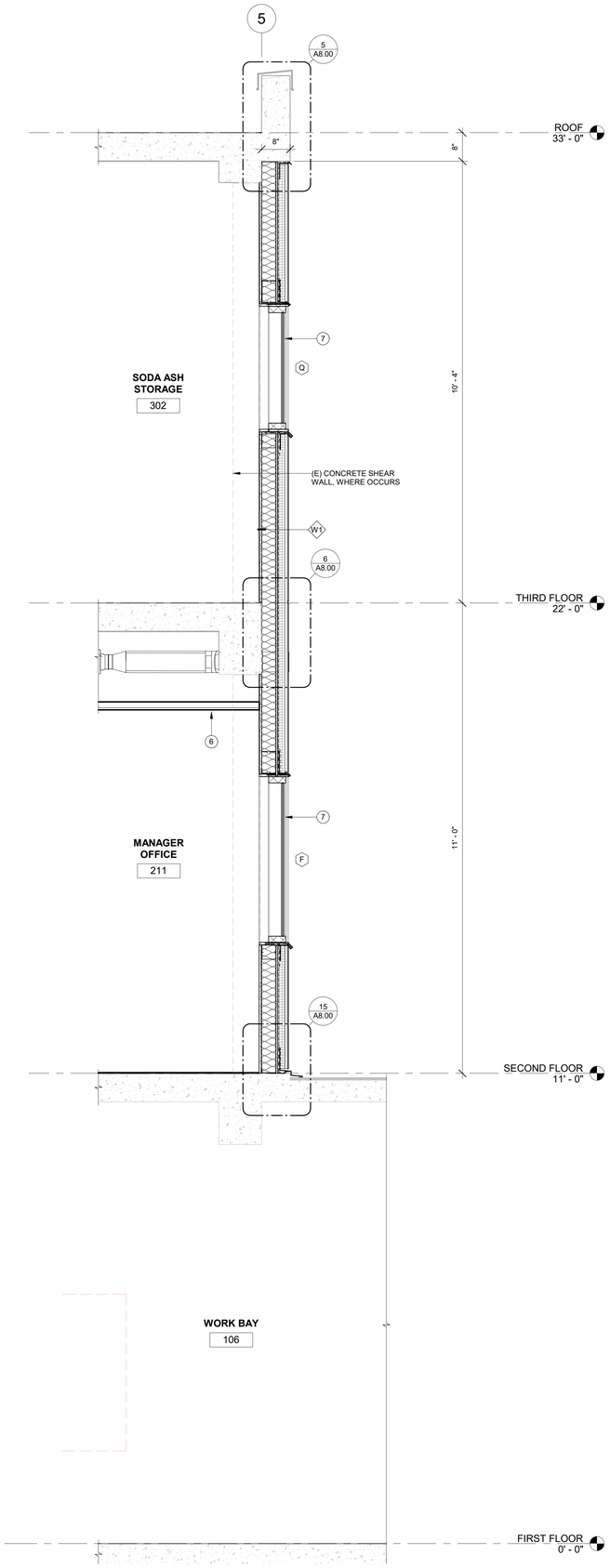
WALL SECTIONS

A5.10

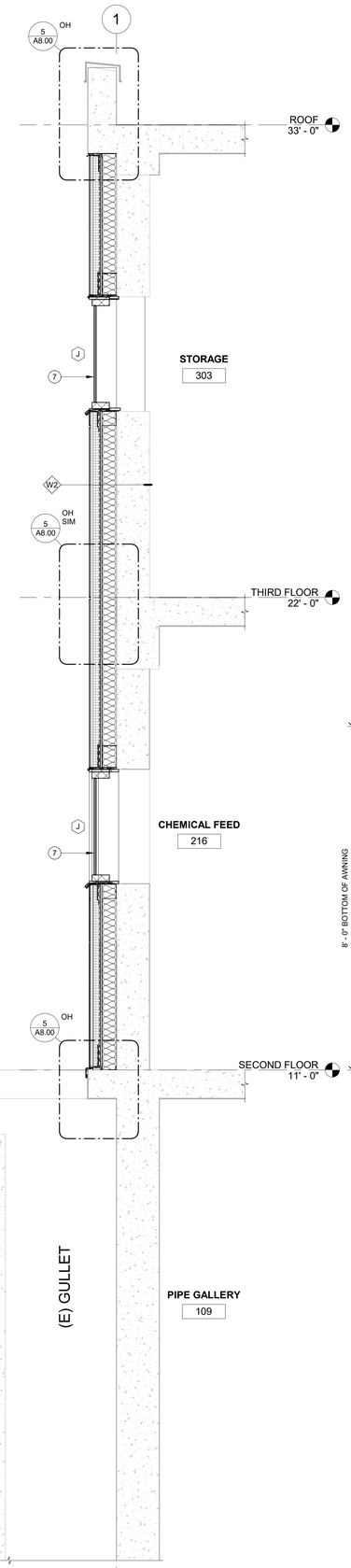
BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

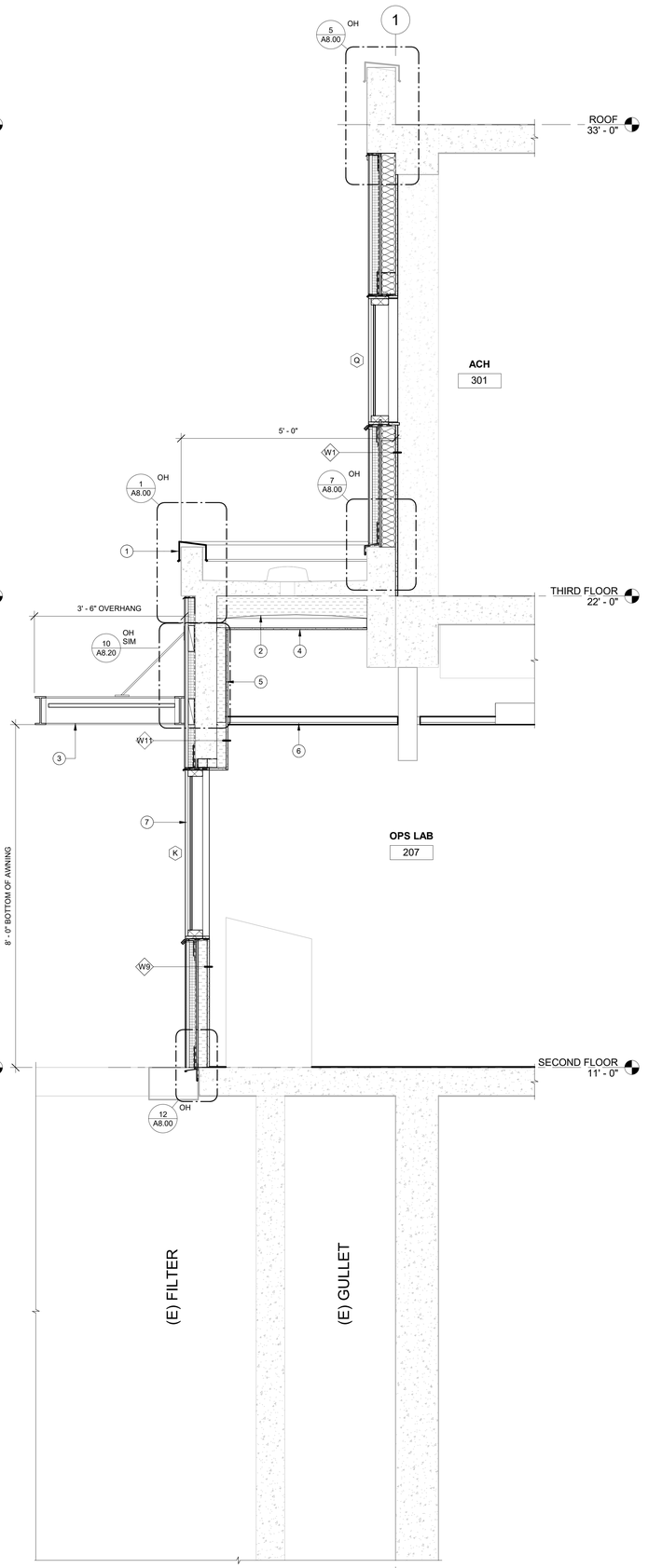
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1 A5.20 WALL SECTION - GL 5 - MANAGER OFFICE 211
3/4" = 1'-0"



2 A5.20 WALL SECTION - GL 1 - CHEMICAL FEED 217
3/4" = 1'-0"



3 A5.20 WALL SECTION - GL 1 - CONTROL LAB 207
3/4" = 1'-0"

KEYNOTES

1 PREFINISHED SHEET METAL COPING

2 SPRAY FOAM AT BOTTOM OF CONCRETE ROOF DECK AND BACK OF CONCRETE BEAM SUPPORTS R-30 OVER (3) CONTROL ROOMS

3 7' - 6" X 3' - 6" PREMANUFACTURED METAL AWNING ON HANGER RODS. DELEGATED DESIGN

4 400S 137-33 [33] CEILING JOIST AT 16" OC WITH 1/2" GYP BD COVER OVER SPRAY FOAM INSULATION

5 R-13 SPRAY FOAM INSULATION WITH 2502S137-33 [33] CFS STUDS @ 16" OC WITH 1/2" GYP BD COVER OVER SPRAY FOAM INSULATION

6 ACT CEILING, SEE RCP FOR HEIGHT

7 WINDOW, SEE SCHEDULE ON A0.20 FOR TYPE, SIZE AND SILL HEIGHT

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CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
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WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
JAN 20
STATE OF OREGON

△	DESCRIPTION	DATE:

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WALL SECTIONS

A5.20

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE
8/7/2026 11:43:12 AM Autodesk Docs://P3116.Clackamas River Water/P3116_ARCH_R26.rvt

KEYNOTES

1 PREFINISHED SHEET METAL COPING

2 FLUID-APPLIED WATERPROOFING OVER (E) CONCRETE ROOF DECK AND PARAPET

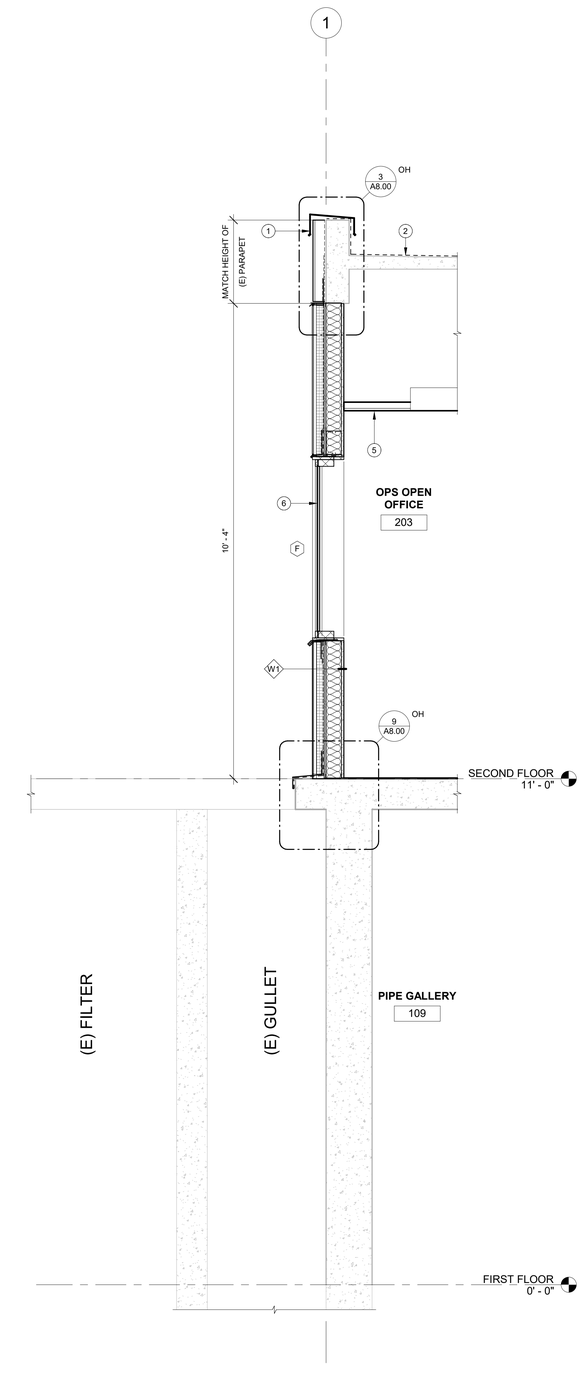
3 SPRAY FOAM AT BOTTOM OF CONCRETE ROOF DECK AND BACK OF CONCRETE BEAM SUPPORTS R-30 OVER (3) CONTROL ROOMS

4 400S 137-33 [33] CEILING JOIST AT 16" OC WITH 1/2" GYP BD COVER OVER SPRAY FOAM INSULATION

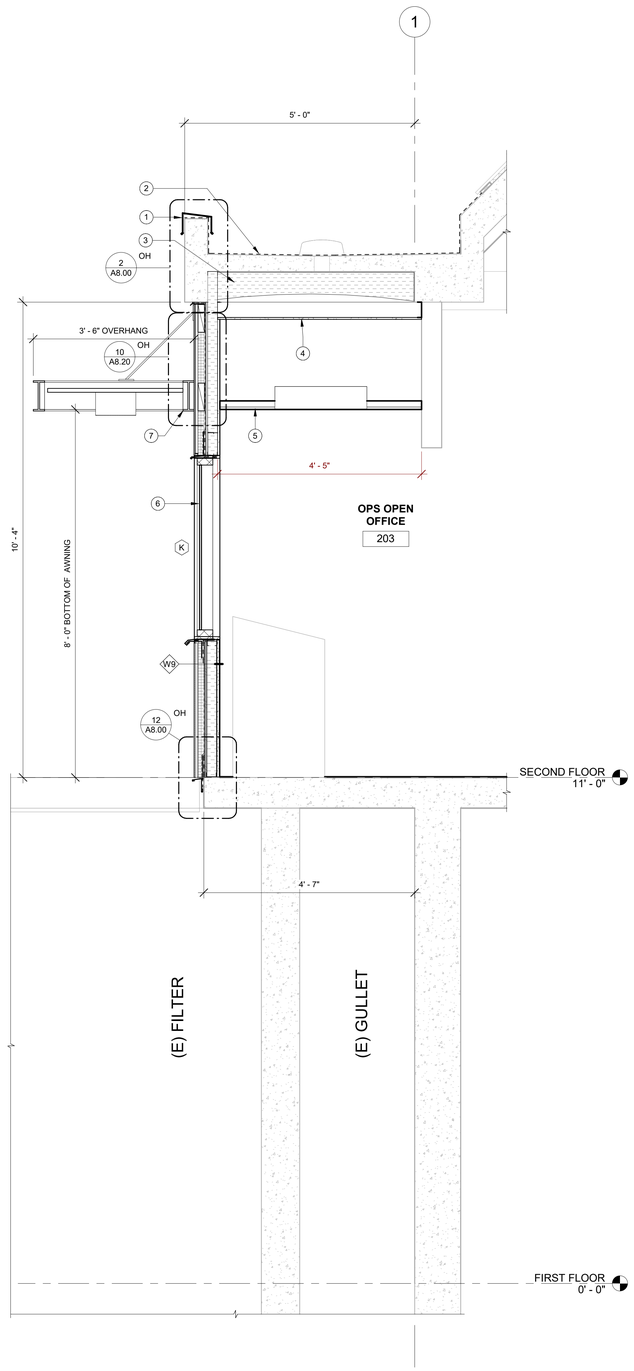
5 ACT CEILING, SEE RCP FOR HEIGHT

6 WINDOW, SEE SCHEDULE ON A0.20 FOR TYPE, SIZE AND SILL HEIGHT

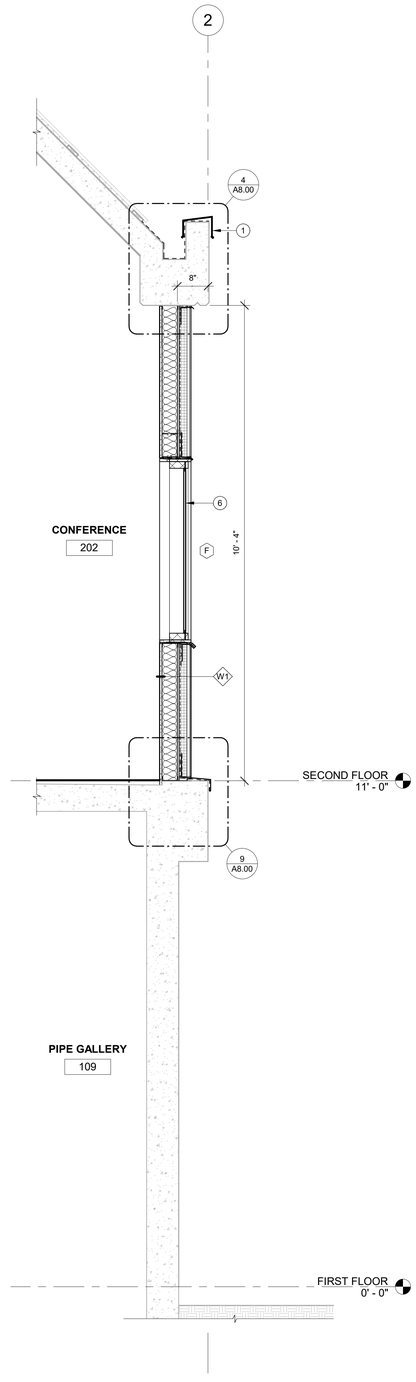
7 7' - 6" X 3' - 6" PREMANUFACTURED METAL AWNING ON HANGER RODS, DELEGATED DESIGN



1 A5.30 WALL SECTION - GL 1 - OPS OPEN OFFICE 203 S
3/4" = 1'-0"



2 A5.30 WALL SECTION - GL 1 - OPS OPEN OFFICE 203 N
3/4" = 1'-0"



3 A5.30 WALL SECTION - GL 2
3/4" = 1'-0"

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CLACKAMAS COUNTY STAMP

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WTP BUILDING IMPROVEMENTS 2026

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Clackamas River Water

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Matthew J. Crawford
OREGON CITY, OR
STATE OF OREGON

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WALL SECTIONS

A5.30

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

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KEYNOTES

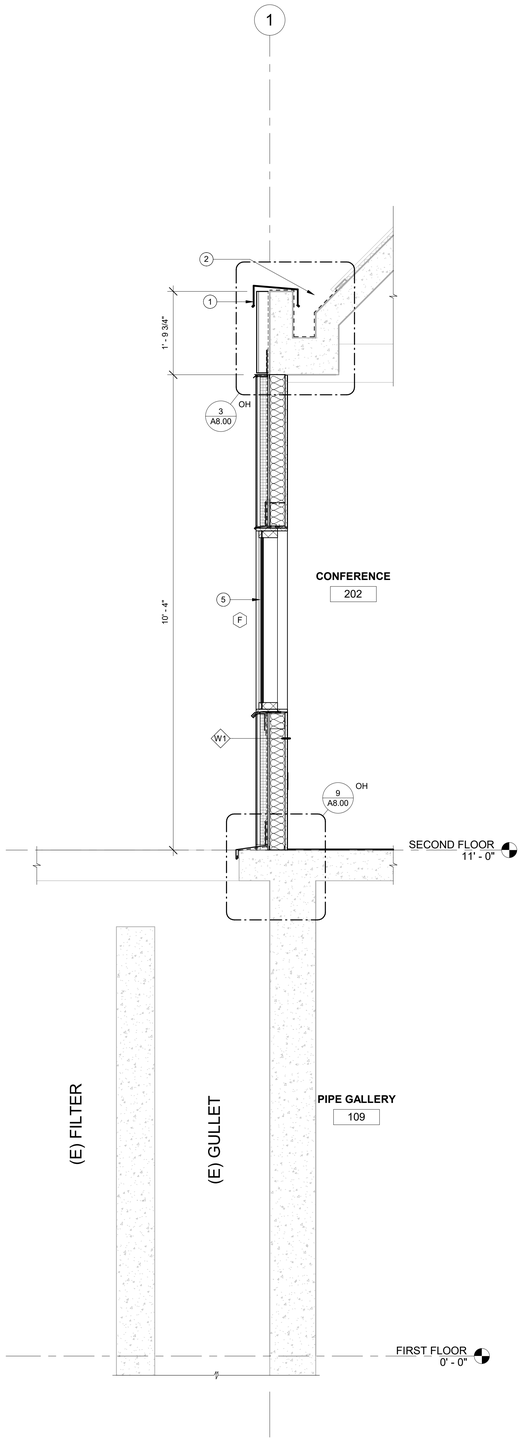
1 PREFINISHED SHEET METAL COPING

2 FLUID-APPLIED WATERPROOFING OVER (E) CONCRETE ROOF DECK AND PARAPET

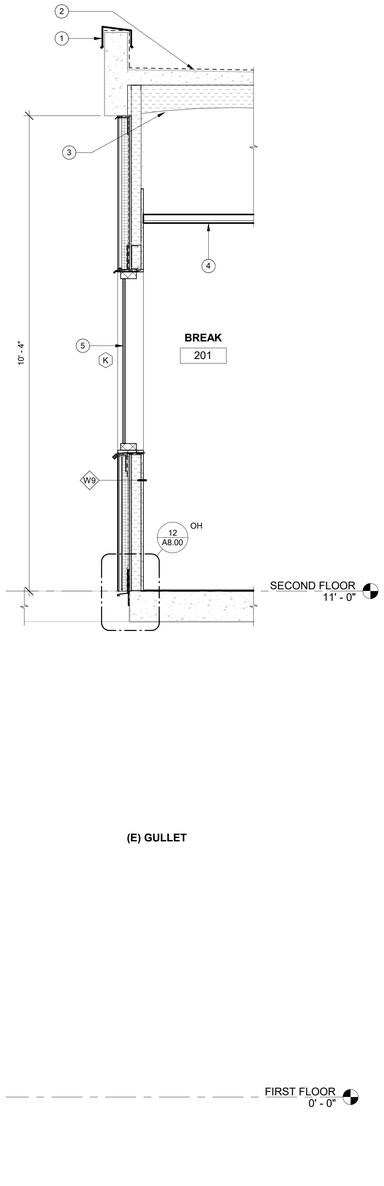
3 SPRAY FOAM AT BOTTOM OF CONCRETE ROOF DECK AND BACK OF CONCRETE BEAM SUPPORTS R-30 OVER (3) CONTROL ROOMS

4 ACT CEILING, SEE RCP FOR HEIGHT

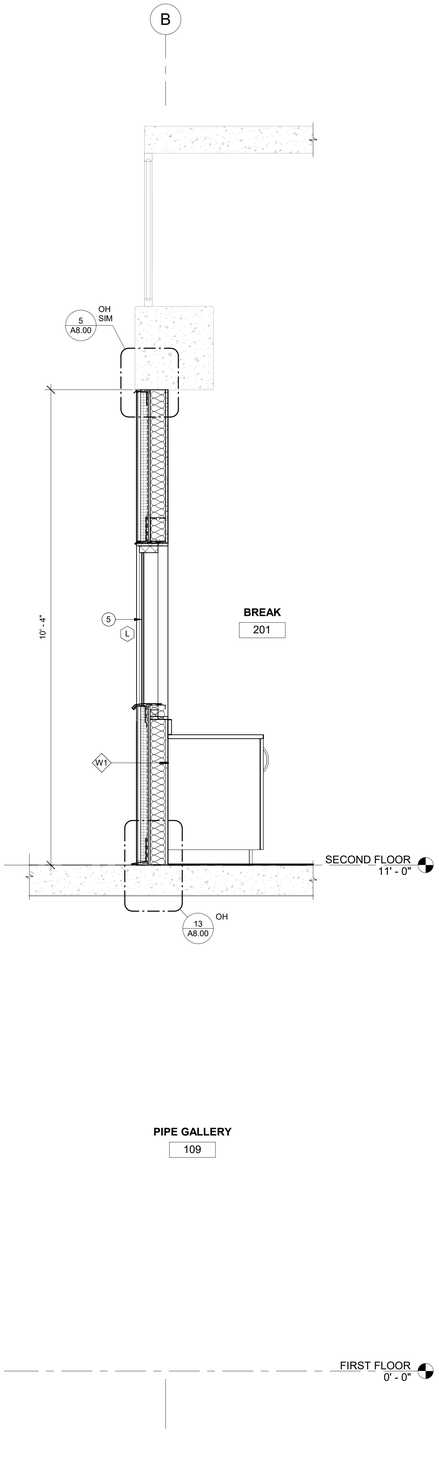
5 WINDOW, SEE SCHEDULE ON A0.20 FOR TYPE, SIZE AND SILL HEIGHT



1 A5.40 WALL SECTION - GL 1 - CONFERENCE 202
3/4" = 1'-0"



2 A5.40 WALL SECTION - GL B.2
3/4" = 1'-0"



3 A5.40 WALL SECTION - GL B
3/4" = 1'-0"

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Oregon City, OR 97045
503.659.2205

CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
STATE OF OREGON

△	DESCRIPTION	DATE:

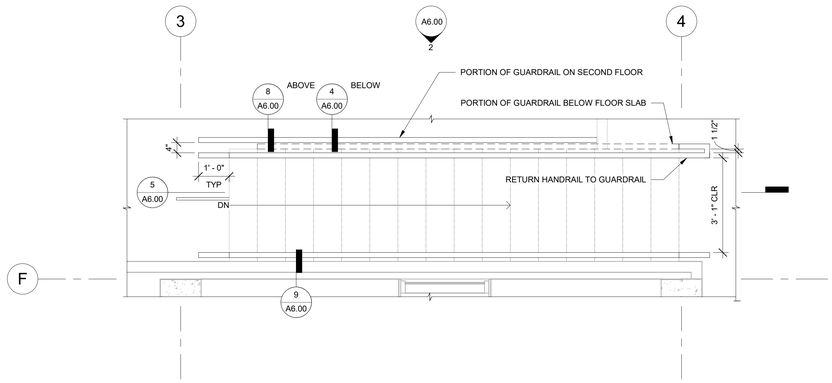
PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

WALL SECTIONS

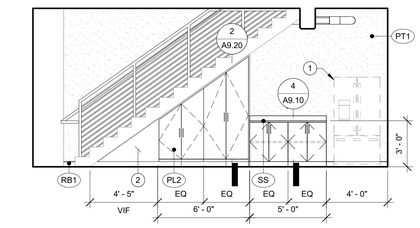
A5.40

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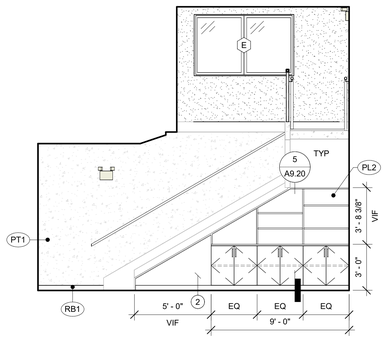
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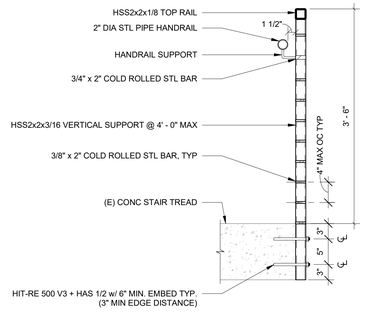
1 A6.00 ENLARGED STAIR PLAN - STAIR 204
1/2" = 1'-0"



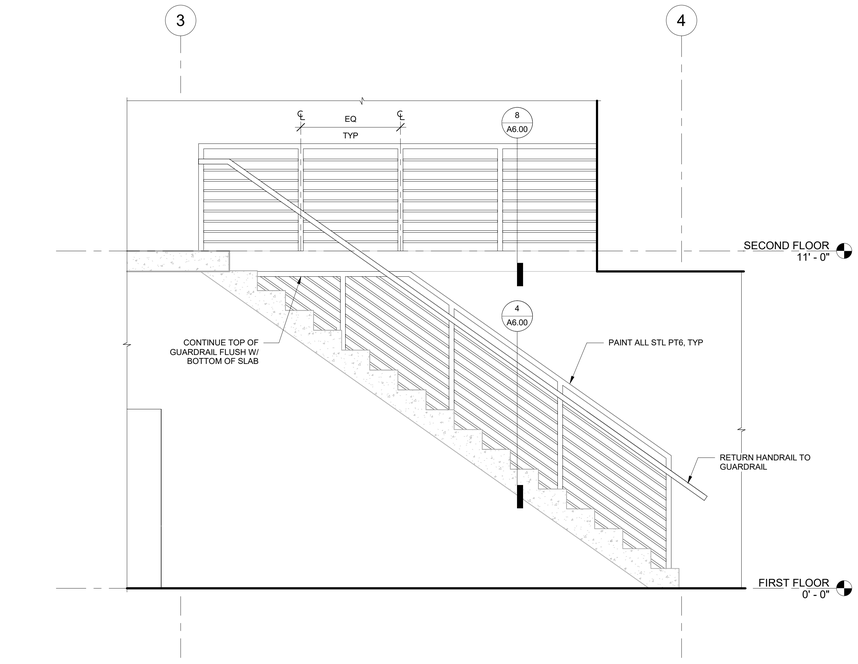
2 A6.00 INT ELEVATION - STORAGE 114 S
1/4" = 1'-0"



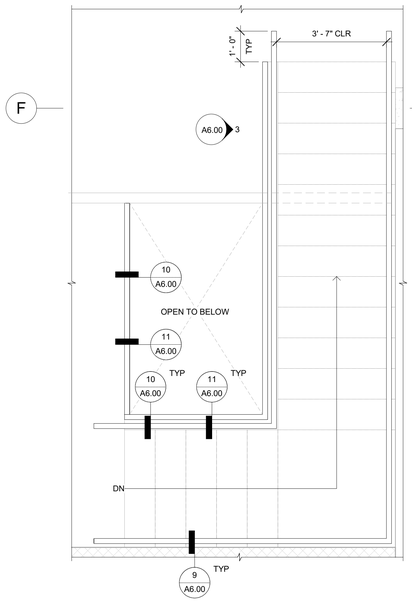
3 A6.00 INT ELEVATION - MAIN LOBBY 111 E
1/4" = 1'-0"



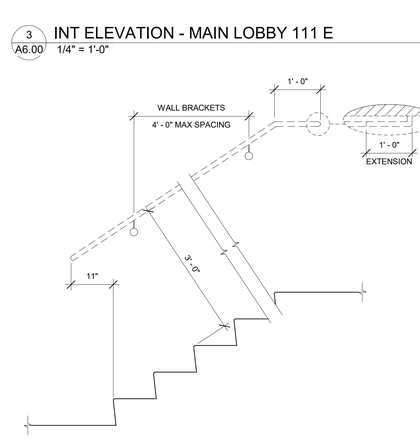
4 A6.00 GUARDRAIL DETAIL - SIDE MOUNT
1" = 1'-0"



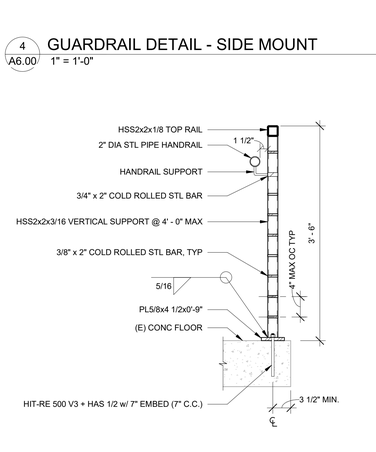
5 A6.00 STAIR SECTION - STAIR 204 N
1/2" = 1'-0"



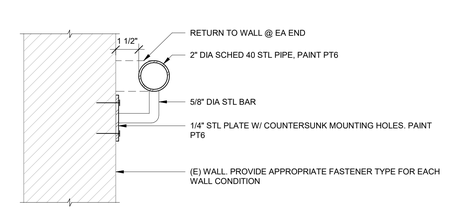
6 A6.00 ENLARGED STAIR PLAN - STAIR 210
1/2" = 1'-0"



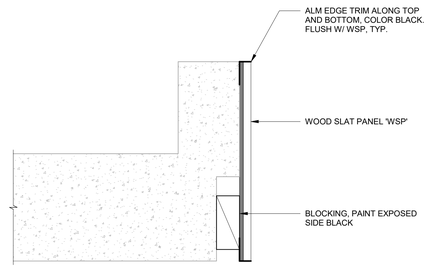
7 A6.00 WALL-MOUNTED HANDRAIL PLAN & ELEVATION
3/4" = 1'-0"



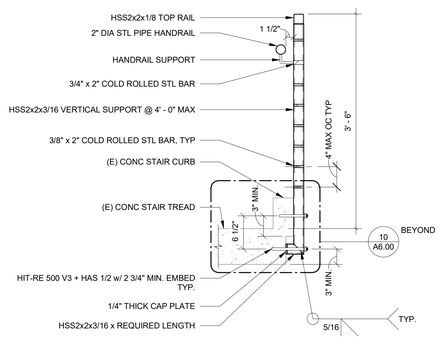
8 A6.00 GUARDRAIL DETAIL - TOP MOUNT
1" = 1'-0"



9 A6.00 HANDRAIL DETAIL
3" = 1'-0"



10 A6.00 GUARDRAIL DETAIL - WD SLAT ALONG STRINGER
3" = 1'-0"



11 A6.00 GUARDRAIL DETAIL - SIDE MOUNT W/ STRINGER
1" = 1'-0"

KEYNOTES

1 REFRIGERATOR, OFCI

2 PLASTIC LAMINATE PANEL FLUSH W/ FACE OF CABINET

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CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
STATE OF OREGON

△	DESCRIPTION	DATE:

PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

HANDRAIL AND GUARDRAIL PLANS AND SECTIONS

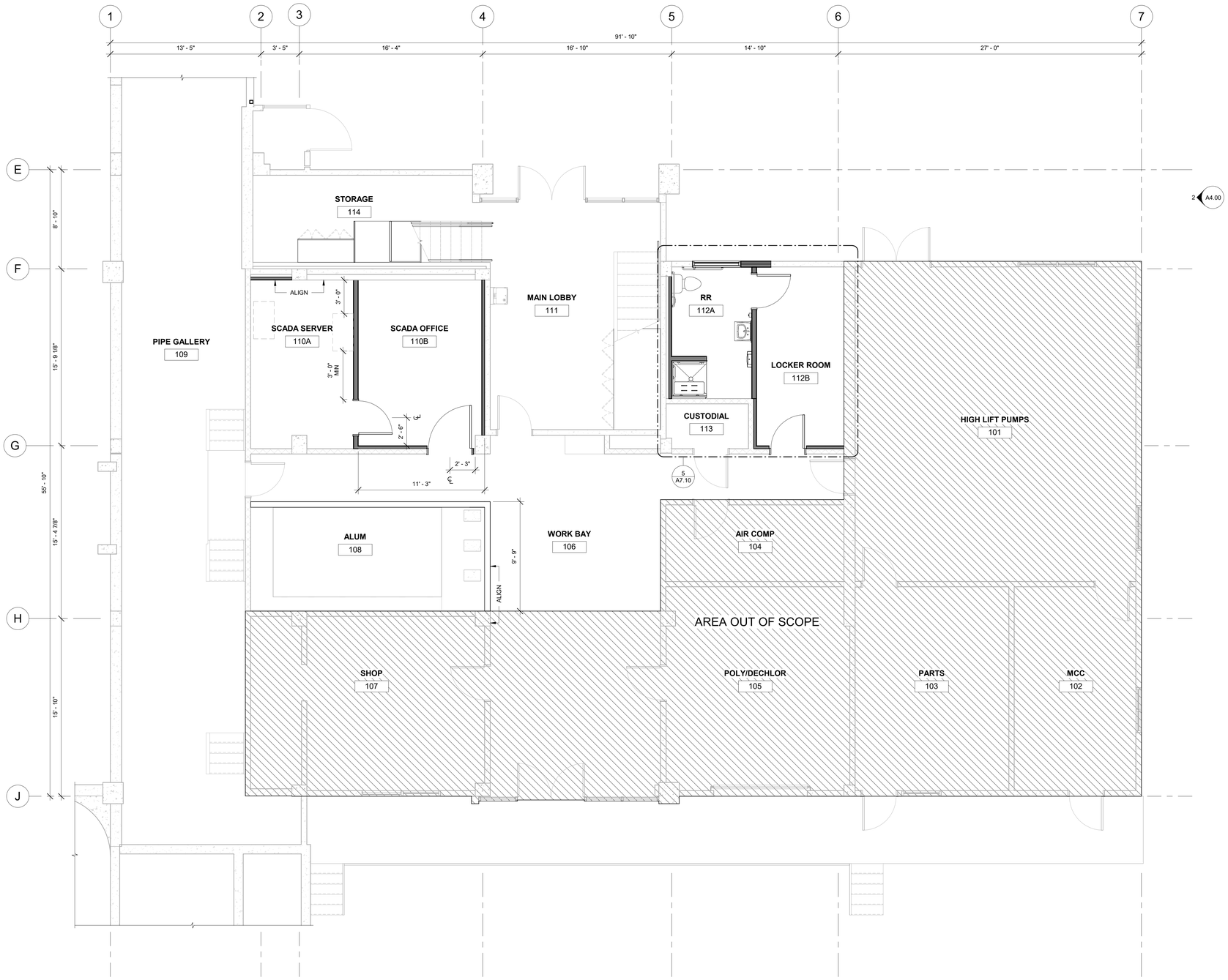
A6.00

BID AND PERMIT SET

Autodesk Docs://P3116 Clackamas River Water/P3116_ARCH_R26.rvt
8/7/2026 11:43:15 AM
ONE INCH EQUALS FULL SCALE

DIM PLAN GENERAL NOTES

A. GC SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS AT THE JOB SITE AND SHALL NOTIFY THE PROJECT TEAM OF ANY OMISSIONS, DISCREPANCIES, AND/OR CONFLICTS PRIOR TO CONSTRUCTION/INSTALLATION.
B. ALL DIMENSIONS ARE FROM FACE OF FINISH TO FACE OF FINISH, CENTER OF OPENINGS, AND GRID LINES, UNO.
C. DO NOT SCALE DRAWINGS. FOLLOW DIMENSIONS ONLY.



1 A6.10 FIRST FLOOR DIMENSION PLAN
1/4" = 1'-0"

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CLACKAMAS COUNTY STAMP

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Matthew J. Crawford
OREGON CITY, OR
STATE OF OREGON

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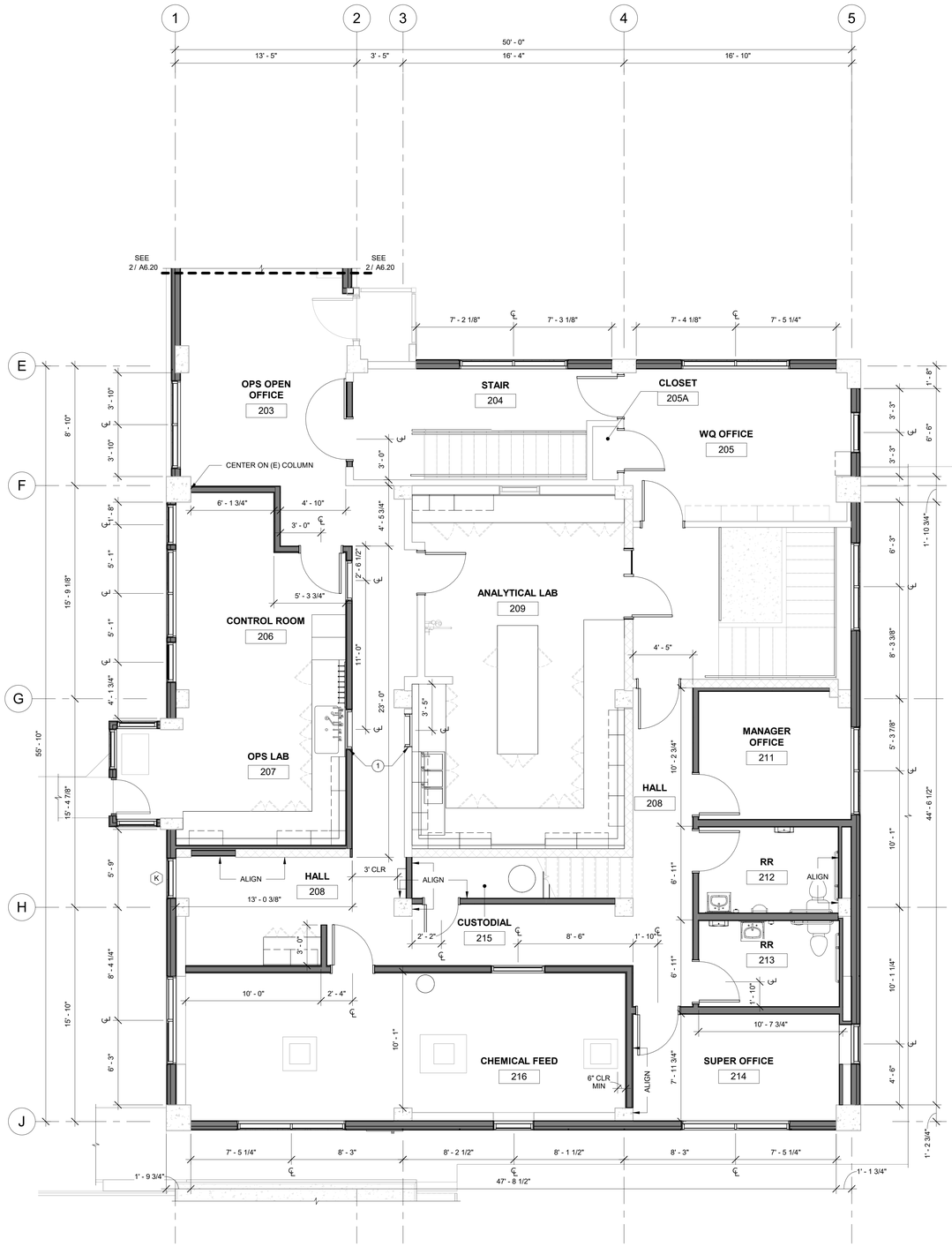
PROJECT NO.	P-3116-26
DESIGNED:	LJS
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DATE:	08-07-2026

FIRST FLOOR DIMENSION PLAN

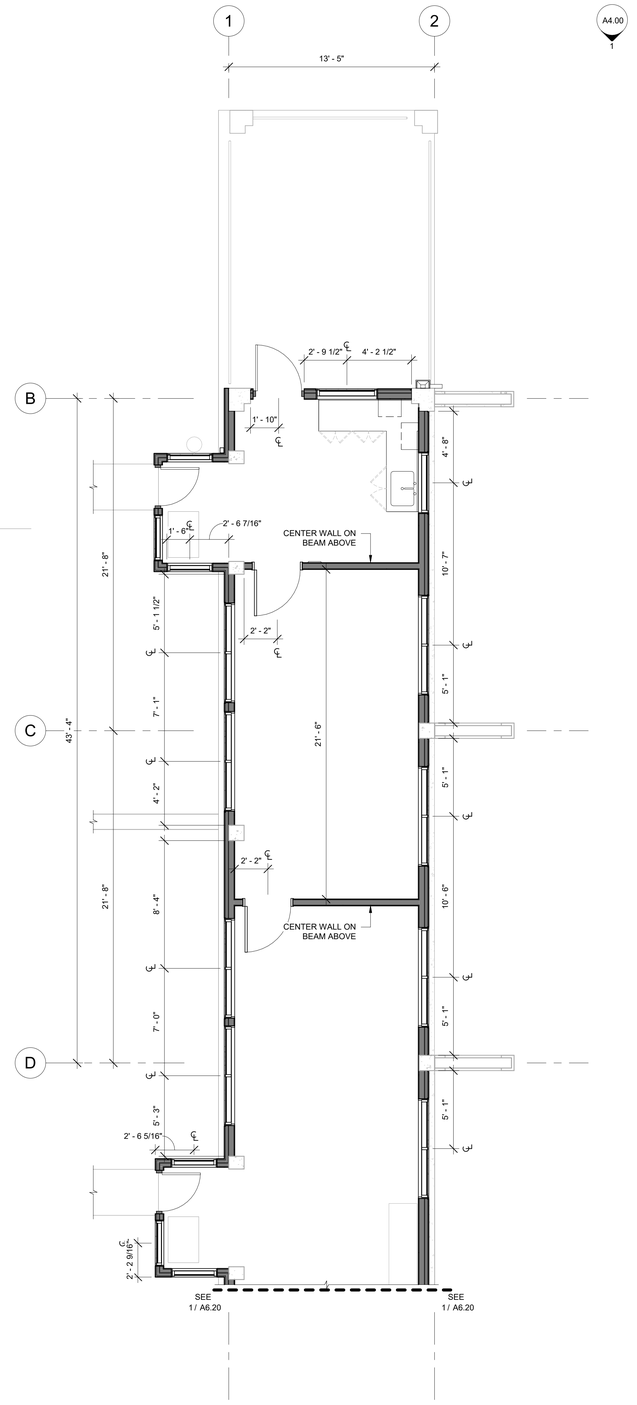
A6.10

BID AND PERMIT SET

8/7/2026 11:43:16 AM Autodesk Docs://P3116 Clackamas River Water/P3116_ARCH_R26.rvt
ONE INCH EQUALS FULL SCALE



1 SECOND FLOOR DIMENSION PLAN
A6.20 1/4" = 1'-0"



2 SECOND FLOOR DIMENSION PLAN - CONFERENCE ROOM
A6.20 1/4" = 1'-0"

DIM PLAN GENERAL NOTES

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B. ALL DIMENSIONS ARE FROM FACE OF FINISH TO FACE OF FINISH, CENTER OF OPENINGS, AND GRID LINES, UNO.
C. DO NOT SCALE DRAWINGS. FOLLOW DIMENSIONS ONLY.

(#) KEYNOTES

1 ALIGN WINDOW CL PER PLAN

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CLACKAMAS COUNTY STAMP

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WTP BUILDING IMPROVEMENTS 2026

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Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR 1986
STATE OF OREGON

△	DESCRIPTION	DATE:

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DATE:	08-07-2026

SECOND FLOOR DIMENSION PLAN

A6.20

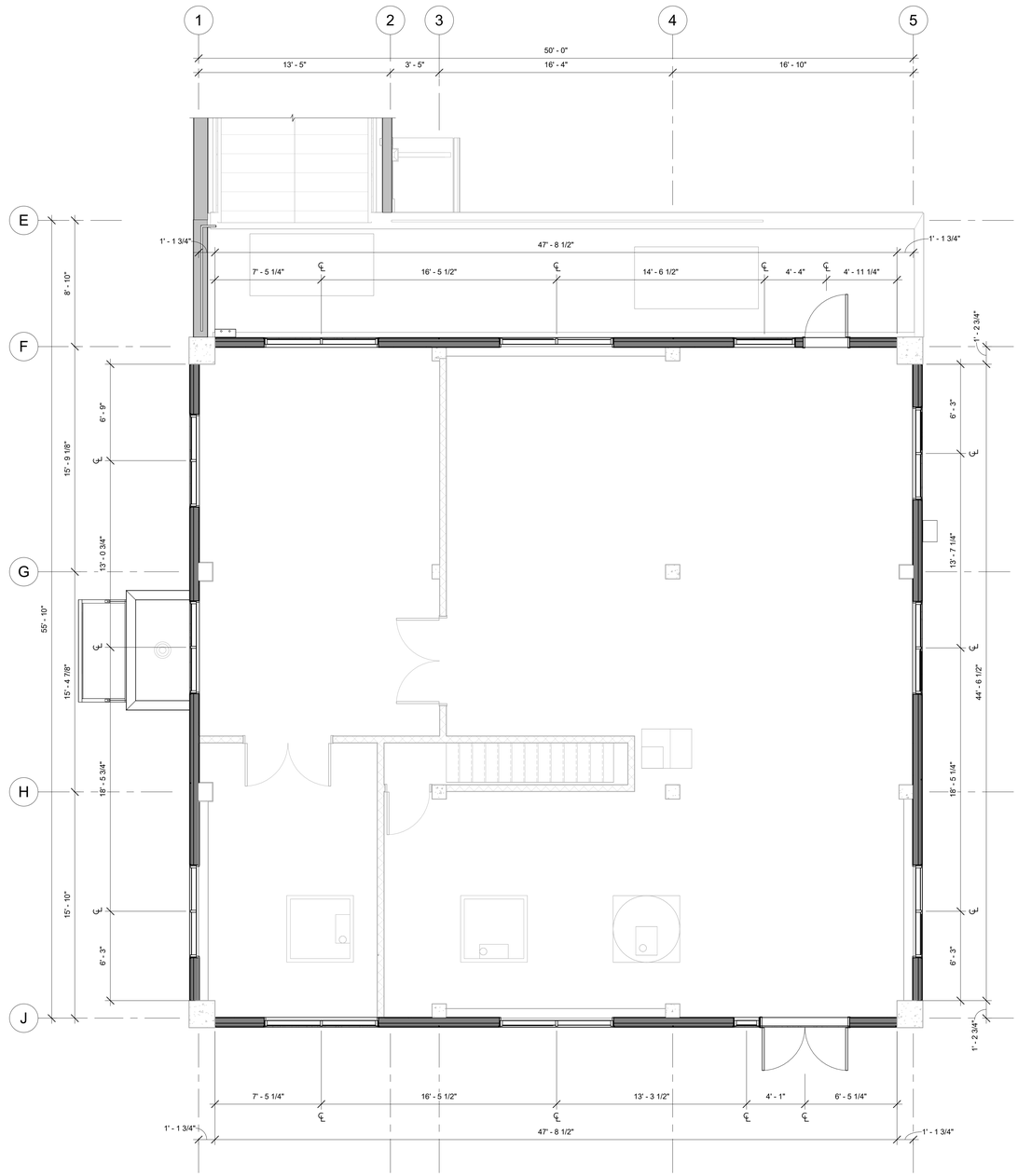
BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

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DIM PLAN GENERAL NOTES

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B. ALL DIMENSIONS ARE FROM FACE OF FINISH TO FACE OF FINISH, CENTER OF OPENINGS, AND GRID LINES, UNO.
C. DO NOT SCALE DRAWINGS. FOLLOW DIMENSIONS ONLY.



1 / A6.30 THIRD FLOOR DIMENSION PLAN
1/4" = 1'-0"

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WTP BUILDING IMPROVEMENTS 2026

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Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
JULY 28, 2026
STATE OF OREGON

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PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

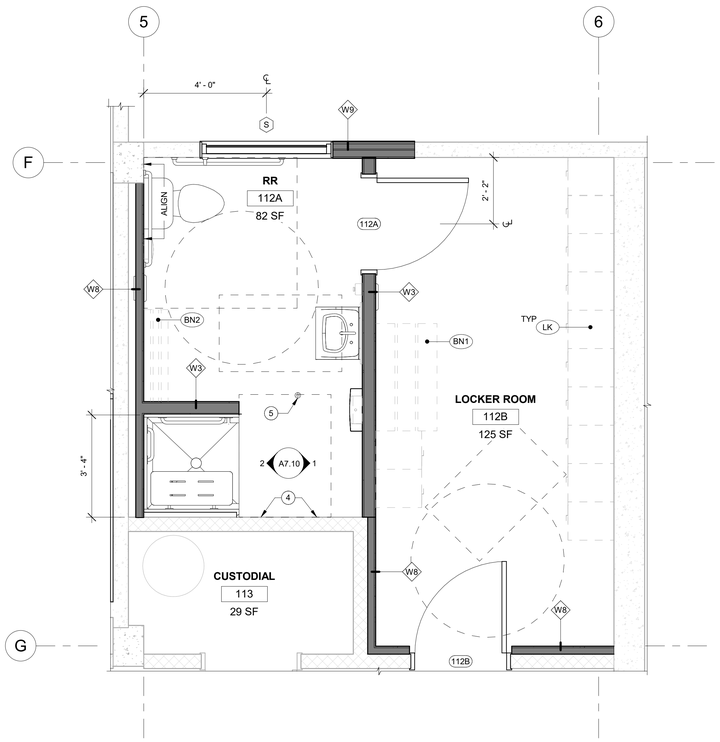
THIRD FLOOR DIMENSION PLAN

A6.30

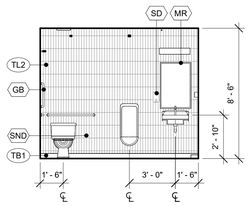
BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

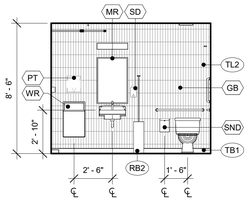
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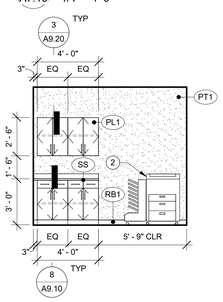
5 A7.10 ENLARGED PLAN - RR 112A & LOCKER ROOM 112B
1/2" = 1'-0"



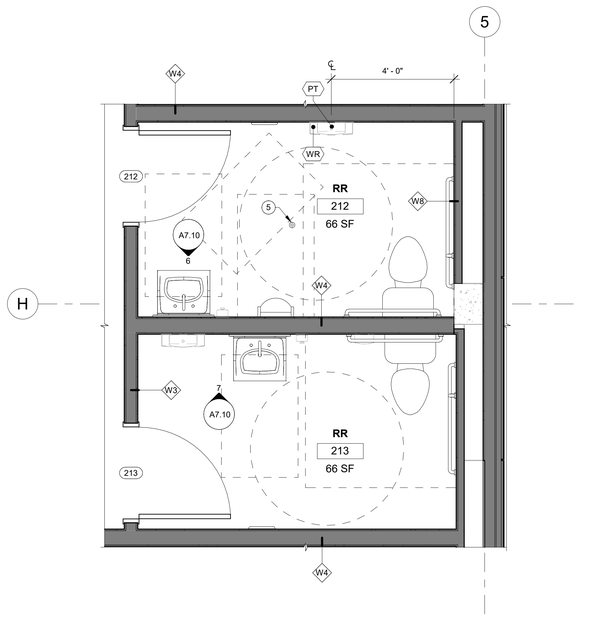
6 A7.10 INT ELEVATION - RR 213 S
1/4" = 1'-0"



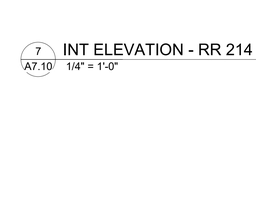
7 A7.10 INT ELEVATION - RR 214 N
1/4" = 1'-0"



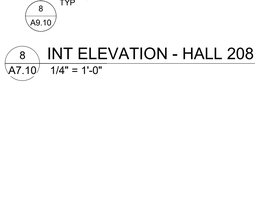
8 A7.10 INT ELEVATION - HALL 208 S
1/4" = 1'-0"



9 A7.10 ENLARGED PLAN - RR 213 & RR 214
1/2" = 1'-0"



1 A7.10 INT ELEVATION - RR 112A E
1/4" = 1'-0"



2 A7.10 INT ELEVATION - RR 112A W
1/4" = 1'-0"

3 A7.10 INT ELEVATION - BREAK 201 N
1/4" = 1'-0"

4 A7.10 INT ELEVATION - BREAK 201 E
1/4" = 1'-0"

ROOM FINISH ABBREVIATIONS

BASE

RB#	RUBBER BASE
TB#	TILE BASE

WALL

PT#	PAINT

WALL PROTECTION

TL#	CERAMIC TILE

CASEWORK

PL#	PLASTIC LAMINATE
SS	SOLID SURFACE
EPX#	EPOXY COUNTERTOP

RESTROOM ACCESSORIES

GB	GRAB BARS
MR	MIRROR
SND	SANITARY NAPKIN DISPOSAL
WR	WASTE RECEPTACLE
TP	TOILET PAPER DISPENSER (OFCI)
PT	PAPER TOWEL DISPENSER (OFCI)
SP	SOAP DISPENSER (OFCI)

MISC

BN#	BENCH

KEYNOTES

1 REFRIGERATOR, OFCI
2 RELOCATE (E) PRINTER. SEE ELEC
3 18" DISHWASHER, OFCI
4 WALL-MTD ROBE HOOK 'HK'. SEE FINISH SCHED
5 SLOPE TILE TO FLOOR DRAIN

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WTP BUILDING IMPROVEMENTS 2026

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Clackamas River Water

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OREGON CITY, OR
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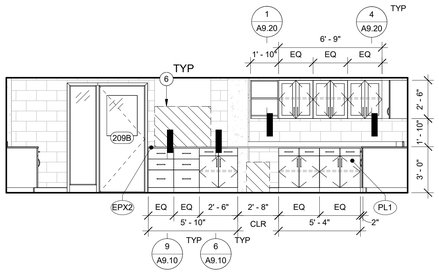
PROJECT NO.	P-3116-26
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ENLARGED PLANS AND INTERIOR ELEVATIONS

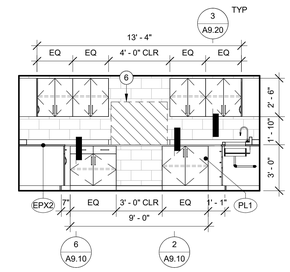
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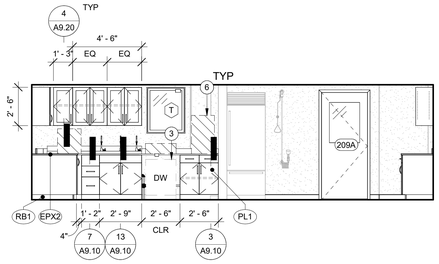
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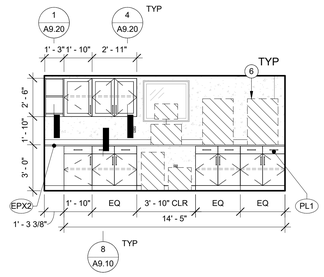
1 A7.20 INT ELEVATION - ANALYTICAL LAB 209 E
1/4" = 1'-0"



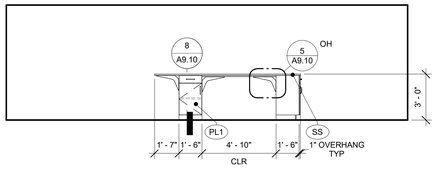
2 A7.20 INT ELEVATION - ANALYTICAL LAB 209 S
1/4" = 1'-0"



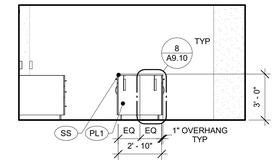
3 A7.20 INT ELEVATION - ANALYTICAL LAB 209 W
1/4" = 1'-0"



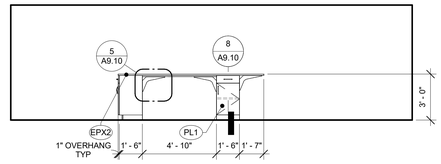
4 A7.20 INT ELEVATION - ANALYTICAL LAB 209 N
1/4" = 1'-0"



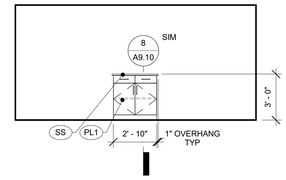
5 A7.20 INT ELEVATION - LAB 209 ISLAND E
1/4" = 1'-0"



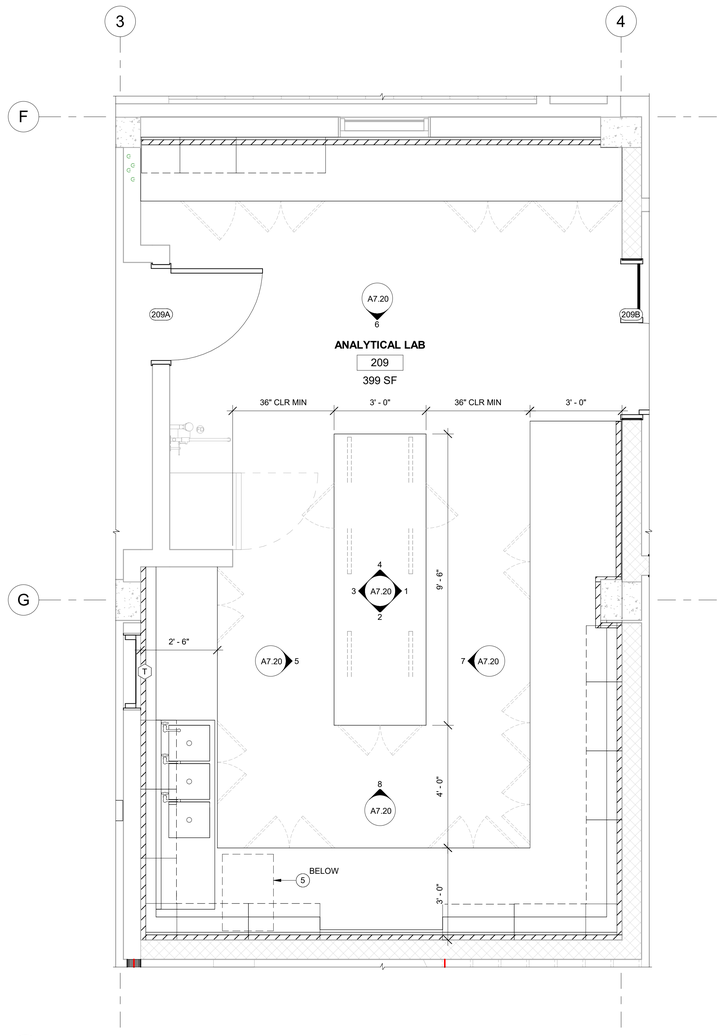
6 A7.20 INT ELEVATION - LAB 209 ISLAND S
1/4" = 1'-0"



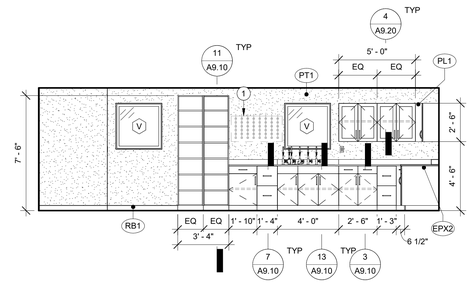
7 A7.20 INT ELEVATION - LAB 209 ISLAND W
1/4" = 1'-0"



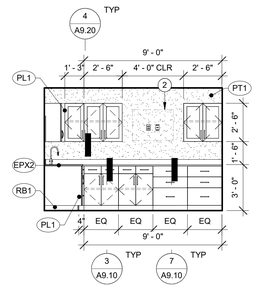
8 A7.20 INT ELEVATION - LAB 209 ISLAND N
1/4" = 1'-0"



11 A7.20 ENLARGED PLAN - ANALYTICAL LAB 209
1/2" = 1'-0"



9 A7.20 INT ELEVATION - OPS LAB 207 E
1/4" = 1'-0"



10 A7.20 INT ELEVATION - OPS LAB 207 S
1/4" = 1'-0"

ROOM FINISH ABBREVIATIONS

BASE

RB#	RUBBER BASE
TB#	TILE BASE

WALL

PT#	PAINT

WALL PROTECTION

TL#	CERAMIC TILE

CASEWORK

PL#	PLASTIC LAMINATE
SS	SOLID SURFACE
EPX#	EPOXY COUNTERTOP

RESTROOM ACCESSORIES

GB	GRAB BARS
MR	MIRROR
SND	SANITARY NAPKIN DISPOSAL
WR	WASTE RECEPTACLE
TP	TOILET PAPER DISPENSER (OFCI)
PT	PAPER TOWEL DISPENSER (OFCI)
SP	SOAP DISPENSER (OFCI)

MISC

BN#	BENCH

KEYNOTES

1 DRYING RACK, OFCI

2 MONITOR, OFCI

3 DISHWASHER, OFCI

5 PROVIDE REMOVABLE PLAM-FACED PLY PANEL MATCHING SIZE AND PLACEMENT OF (E) FLOOR OPENING ABOVE ALUM TANK

6 LAB EQUIPMENT, OFCI. COORDINATE FINAL LOCATION W/ OWNER

ZCS
524 Main Street, Suite 2
Oregon City, OR 97045
503.659.2205

CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
1984
STATE OF OREGON

△	DESCRIPTION	DATE:

PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

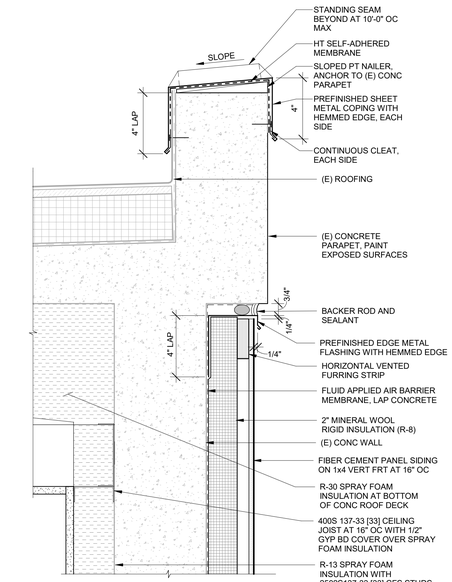
ENLARGED PLANS AND INTERIOR ELEVATIONS

A7.20

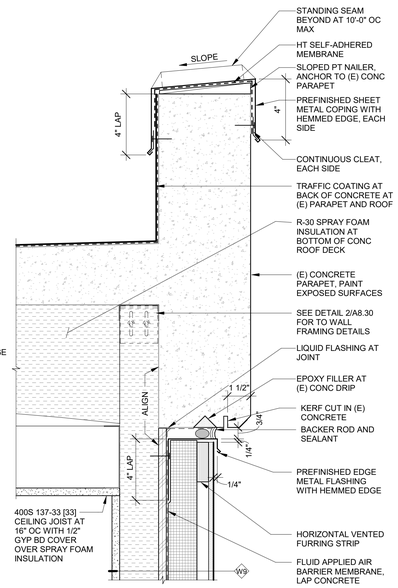
BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

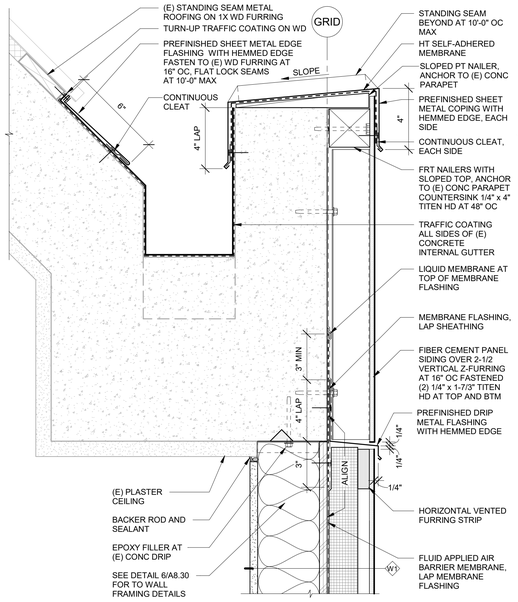
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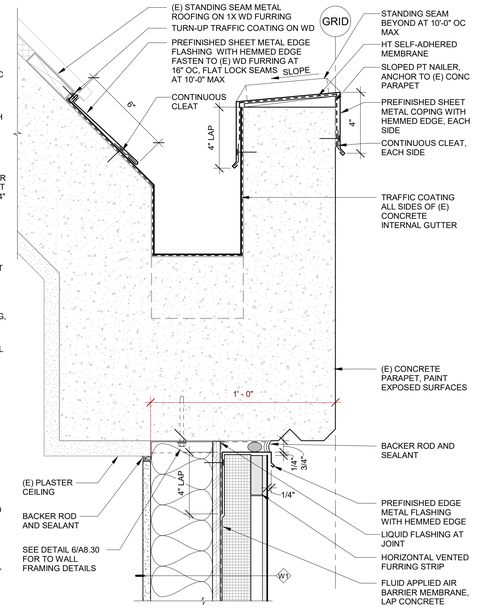
1 A8.00 TOP OF WALL AT CONC PARAPET
3" = 1'-0"



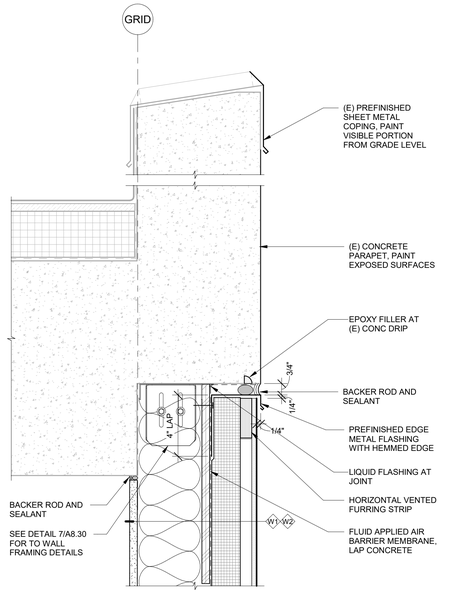
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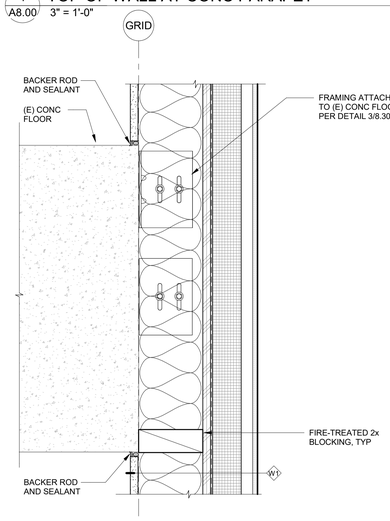
3 A8.00 TOP OF WALL AT CONC PARAPET/INTERNAL GUTTER
3" = 1'-0"



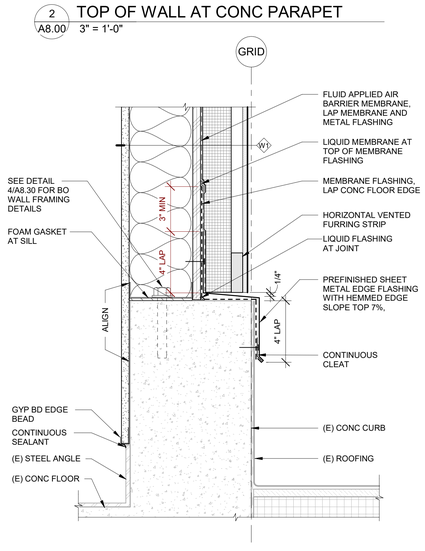
4 A8.00 TOP OF WALL AT CONC PARAPET/INTERNAL GUTTER
3" = 1'-0"



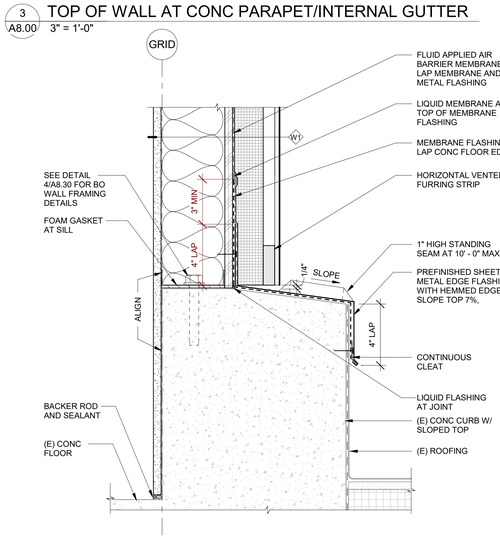
5 A8.00 TOP OF WALL AT UPPER ROOF CONC PARAPET
3" = 1'-0"



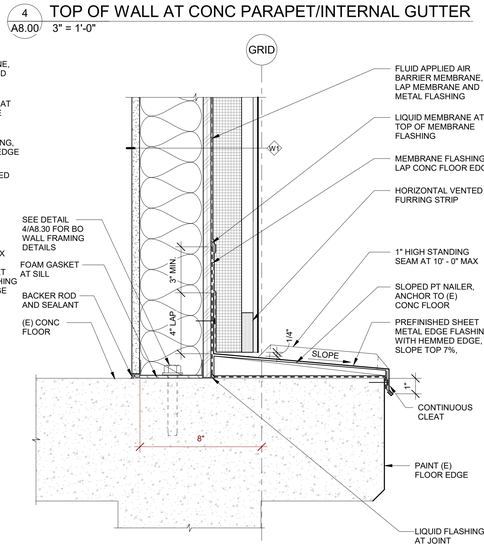
6 A8.00 WALL AT (E) FOOR EDGE
3" = 1'-0"



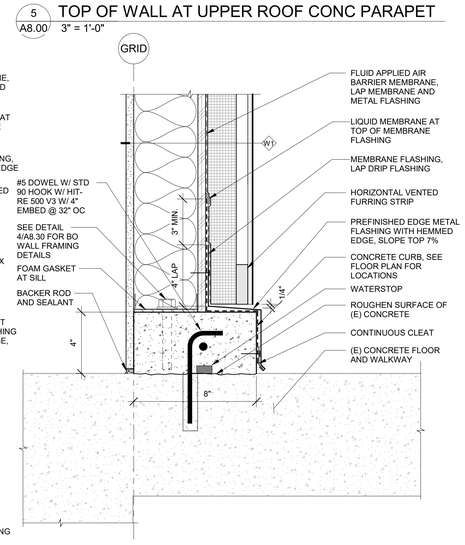
7 A8.00 BOTTOM OF WALL AT (E) UPPER ROOFING
3" = 1'-0"



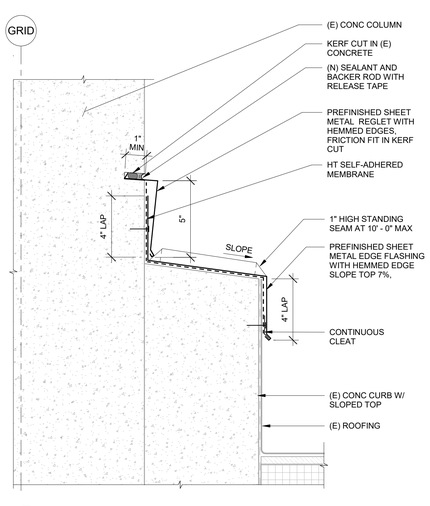
8 A8.00 BOTTOM OF WALL AT (E) UPPER ROOFING
3" = 1'-0"



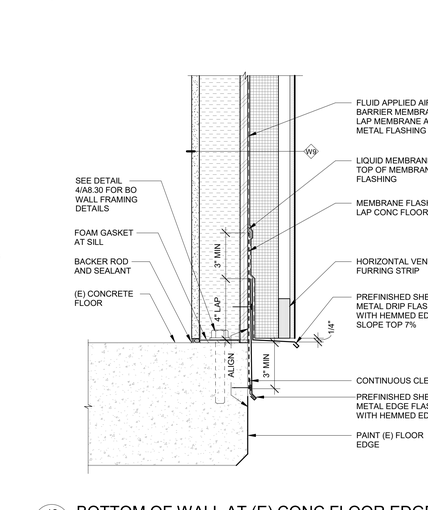
9 A8.00 BOTTOM OF WALL AT (E) CONC FLOOR EDGE
3" = 1'-0"



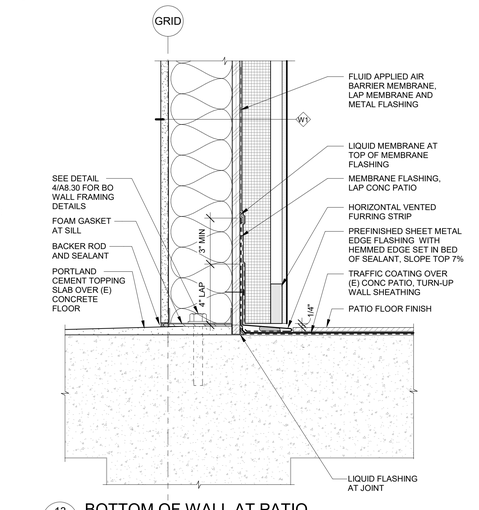
10 A8.00 BOTTOM OF WALL AT CONC WALKWAY
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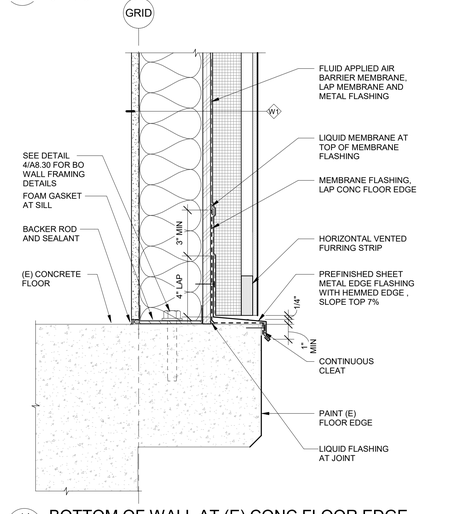
11 A8.00 ROOFING - REGLET FLASHING AT CONC
3" = 1'-0"



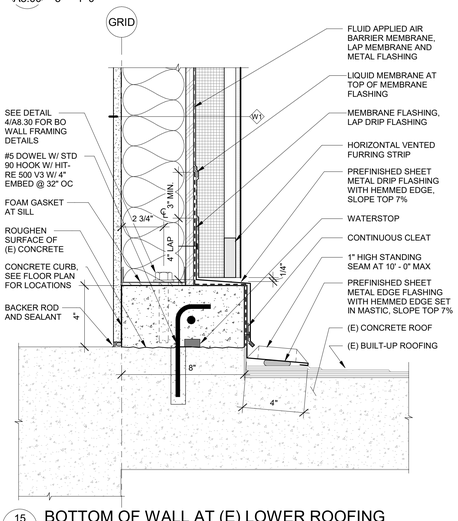
12 A8.00 BOTTOM OF WALL AT (E) CONC FLOOR EDGE
3" = 1'-0"



13 A8.00 BOTTOM OF WALL AT PATIO
3" = 1'-0"



14 A8.00 BOTTOM OF WALL AT (E) CONC FLOOR EDGE
3" = 1'-0"



15 A8.00 BOTTOM OF WALL AT (E) LOWER ROOFING
3" = 1'-0"

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CLACKAMAS COUNTY STAMP

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WTP BUILDING IMPROVEMENTS 2026

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Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
JAN. 10, 2012
STATE OF OREGON

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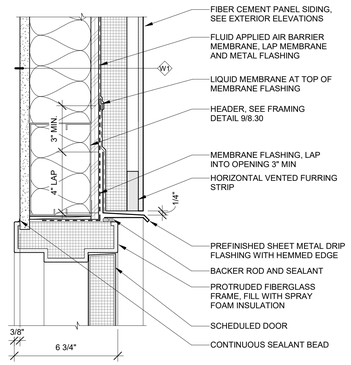
EXTERIOR DETAILS

A8.00

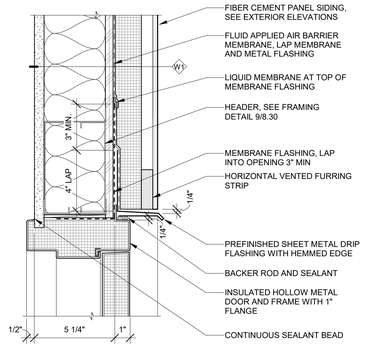
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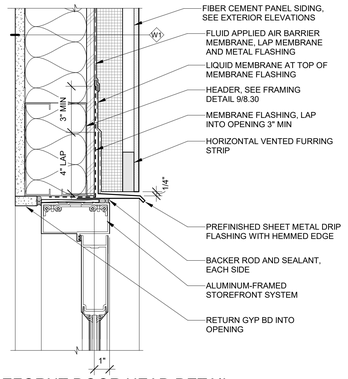
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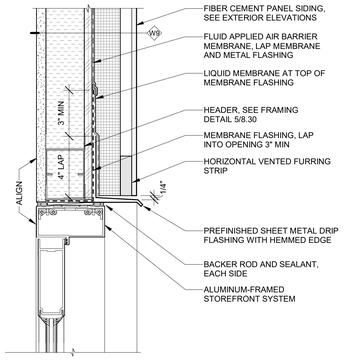
1 A8.10 FIBERGLASS DOOR HEAD DETAIL
3" = 1'-0"



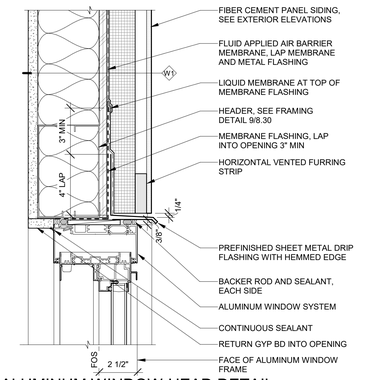
2 A8.10 HOLLOW METAL DOOR HEAD DETAIL
3" = 1'-0"



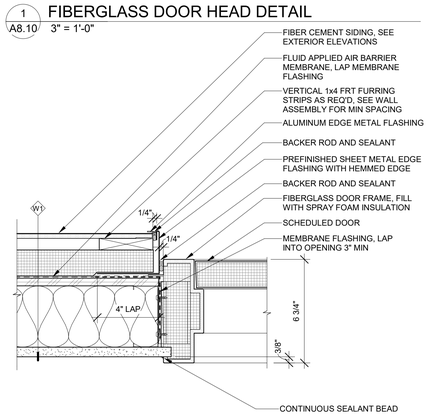
3 A8.10 STOREFORNT DOOR HEAD DETAIL
3" = 1'-0"



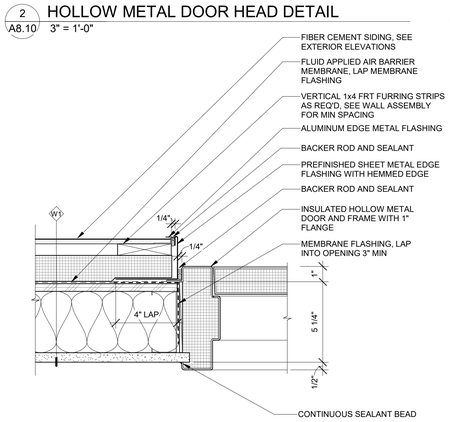
4 A8.10 STOREFRONT DOOR HEAD DETAIL
3" = 1'-0"



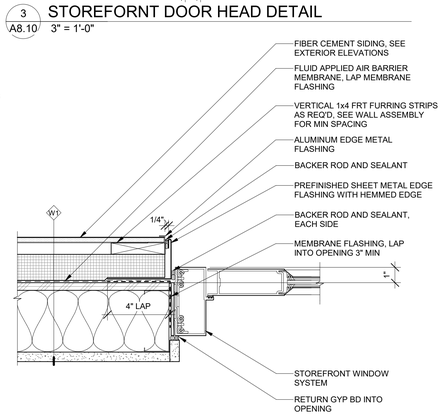
5 A8.10 ALUMINUM WINDOW HEAD DETAIL
3" = 1'-0"



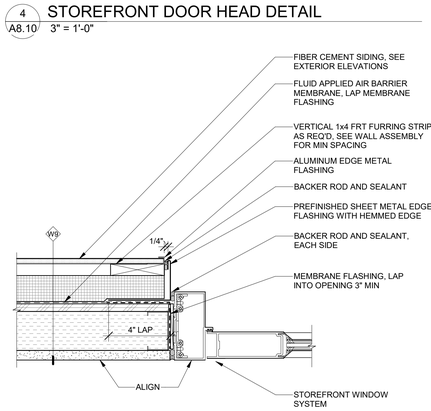
6 A8.10 FIBERGLASS DOOR JAMB DETAIL
3" = 1'-0"



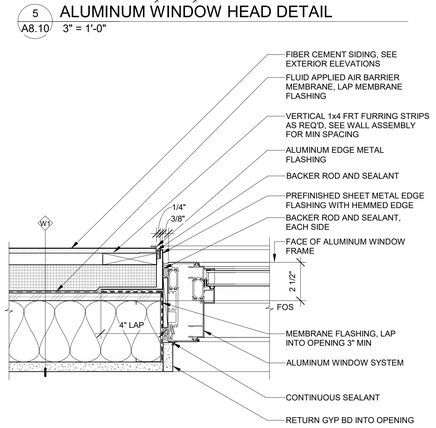
7 A8.10 HOLLOW METAL DOOR JAMB DETAIL
3" = 1'-0"



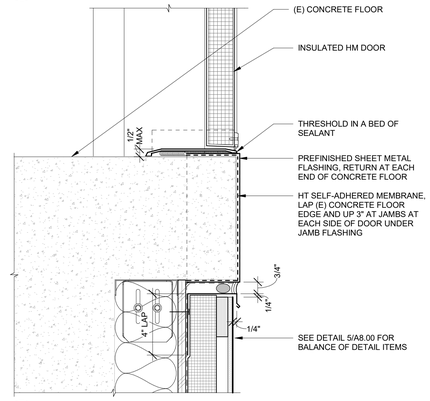
8 A8.10 STOREFRONT DOOR JAMB DETAIL
3" = 1'-0"



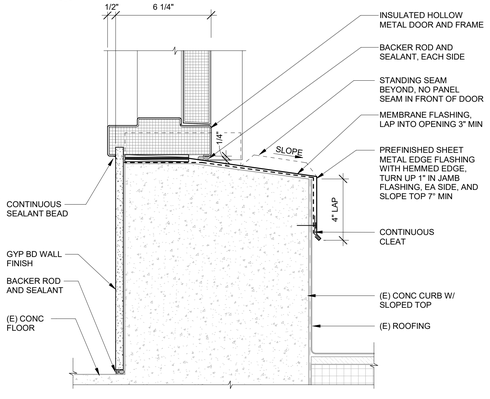
9 A8.10 STOREFRONT DOOR JAMB DETAIL
3" = 1'-0"



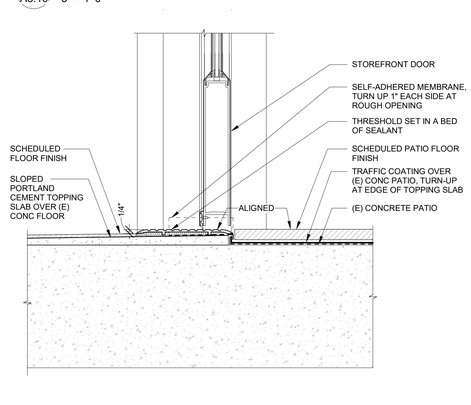
10 A8.10 ALUMINUM WINDOW JAMB DETAIL
3" = 1'-0"



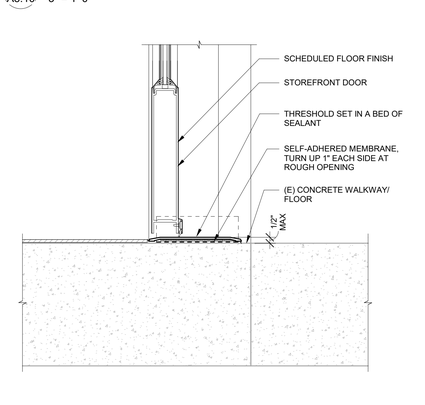
11 A8.10 FIBERGLASS DOOR THRESHOLD DETAIL
3" = 1'-0"



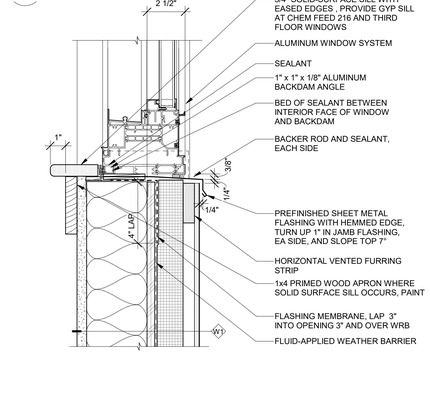
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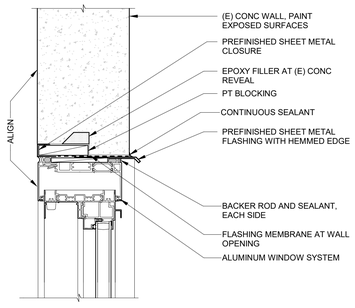
13 A8.10 STOREFRONT DOOR THRESHOLD DETAIL
3" = 1'-0"



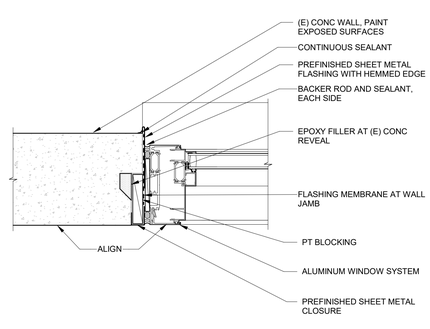
14 A8.10 STOREFRONT DOOR THRESHOLD DETAIL
3" = 1'-0"



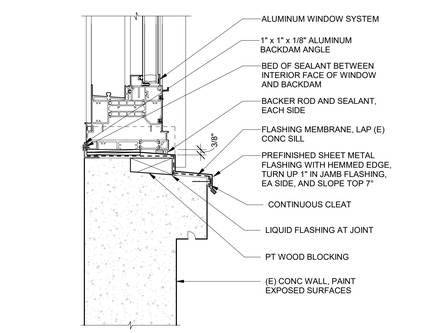
15 A8.10 ALUMINUM WINDOW SILL DETAIL
3" = 1'-0"



16 A8.10 ALUMINUM WINDOW HEAD DETAIL
3" = 1'-0"



17 A8.10 ALUMINUM WINDOW HEAD DETAIL
3" = 1'-0"



18 A8.10 ALUMINUM WINDOW SILL DETAIL
3" = 1'-0"

ONE INCH EQUALS FULL SCALE

8/7/2026 11:40:20 AM Autodesk Docs://P3116 Clackamas River Water/P3116_ARCH_R26.rvt

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CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON
JULY 19, 1996
STATE OF OREGON

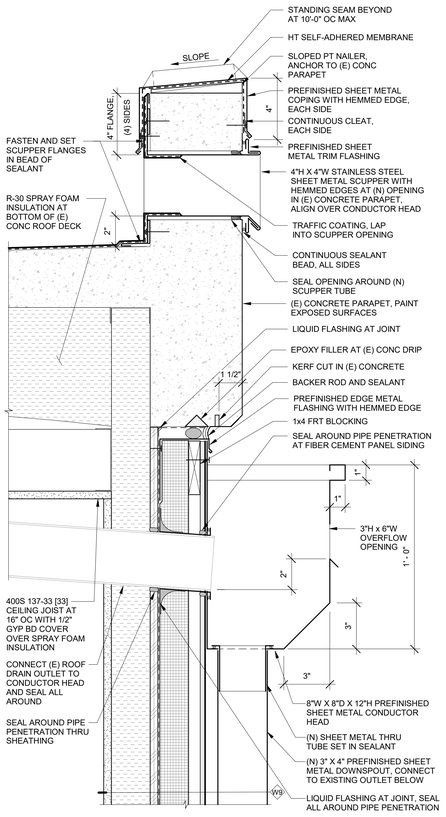
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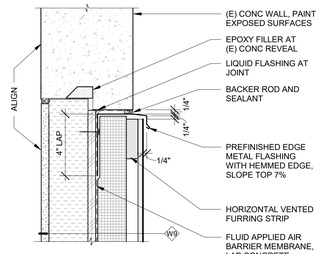
EXTERIOR DETAILS

A8.10

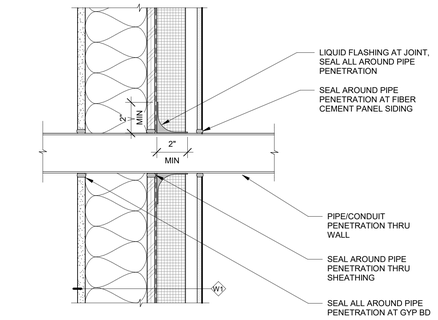
BID AND PERMIT SET



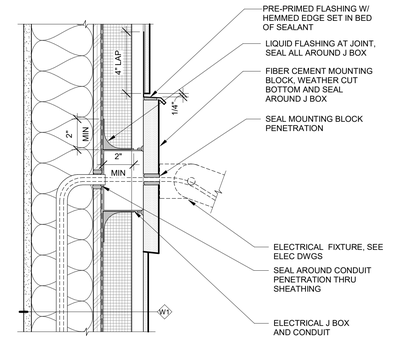
5 A8.20 SCUPPER THRU (E) PARAPET/CONDUCTOR HEAD
3" = 1'-0"



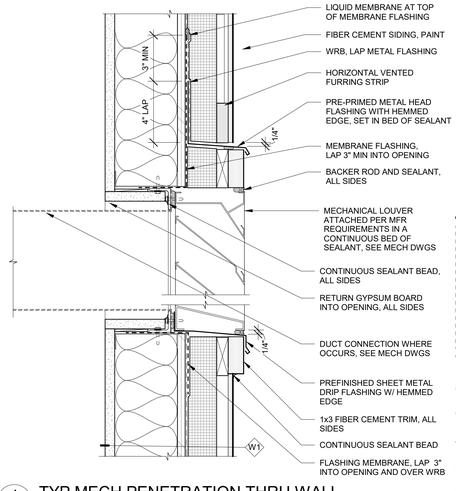
1 A8.20 WALL HEAD AT (E) CONC WALL OPENING
3" = 1'-0"



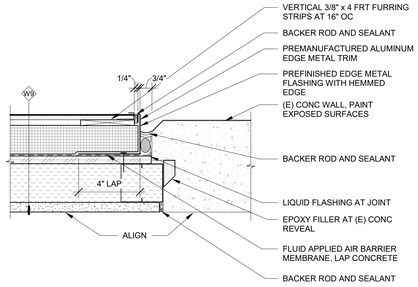
2 A8.20 TYP PIPE/CONDUIT PENETRATION THRU WALL
3" = 1'-0"



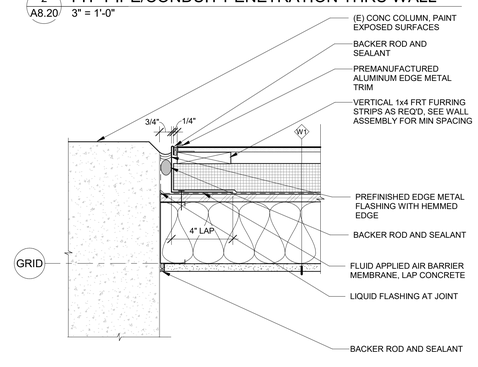
3 A8.20 TYP ELECTRICAL PENETRATION THRU WALL
3" = 1'-0"



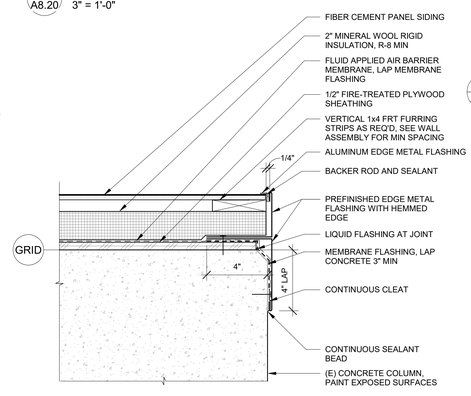
4 A8.20 TYP MECH PENETRATION THRU WALL
3" = 1'-0"



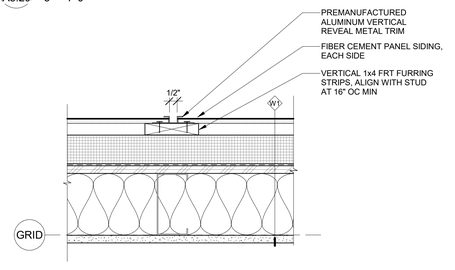
6 A8.20 WALL JAMB AT (E) CONC WALL OPENING
3" = 1'-0"



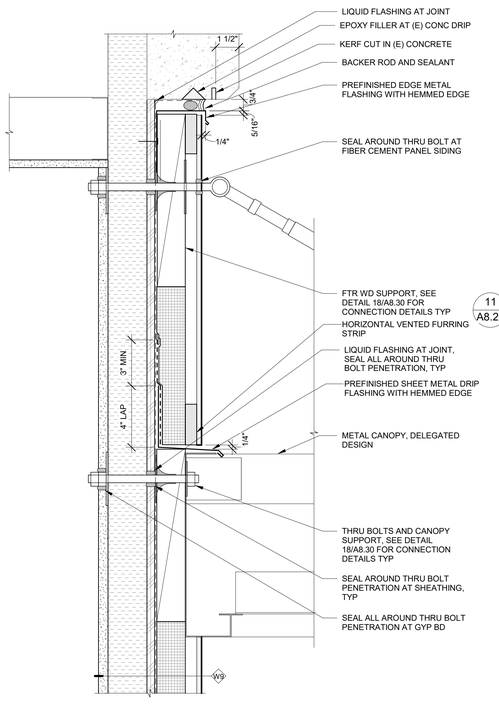
7 A8.20 WALL JAMB AT (E) CONC COLUMN
3" = 1'-0"



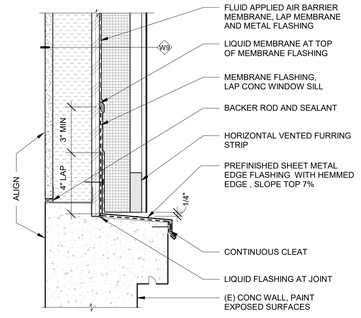
8 A8.20 WALL EDGE AT (E) CONC CORNER
3" = 1'-0"



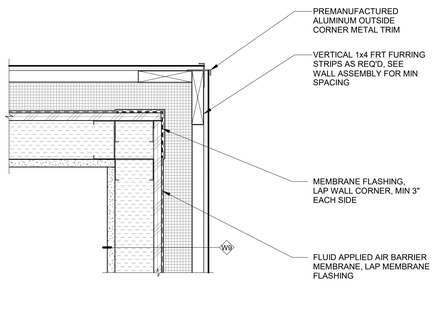
9 A8.20 VERTICAL FIBER CEMENT PANEL REVEAL
3" = 1'-0"



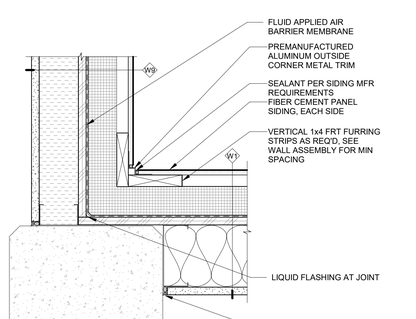
10 A8.20 CANOPY ATTACHMENT DETAIL
3" = 1'-0"



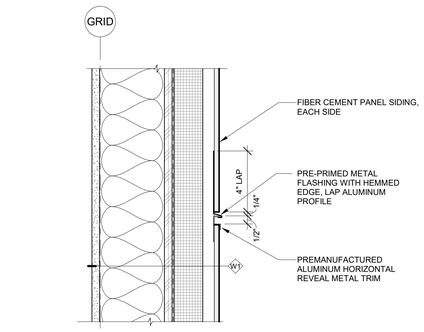
11 A8.20 WALL BOTTOM AT (E) CONC WALL OPENING
3" = 1'-0"



12 A8.20 WALL OUTSIDE CORNER AT SIDING
3" = 1'-0"

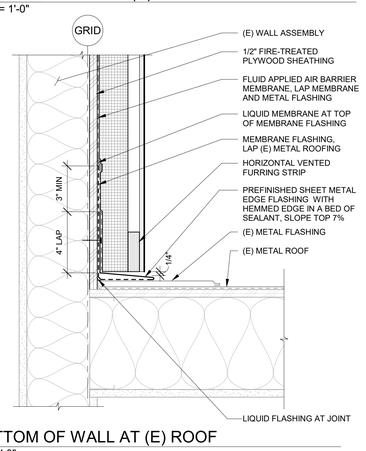


13 A8.20 WALL OUTSIDE CORNER AT SIDING
3" = 1'-0"

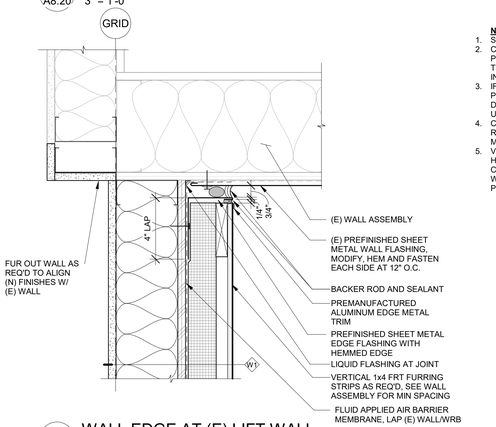


14 A8.20 HORIZONTAL FIBER CEMENT PANEL REVEAL
3" = 1'-0"

10 A8.20 CANOPY ATTACHMENT DETAIL
3" = 1'-0"

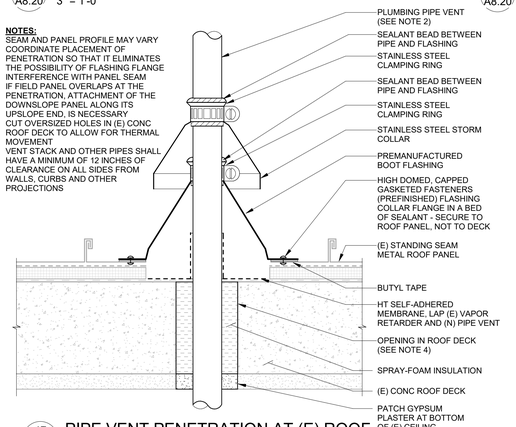


15 A8.20 BOTTOM OF WALL AT (E) ROOF
3" = 1'-0"



16 A8.20 WALL EDGE AT (E) LIFT WALL
3" = 1'-0"

NOTES:
1. SEAM AND PANEL PROFILE MAY VARY
2. COORDINATE PLACEMENT OF PENETRATION SO THAT IT ELIMINATES THE POSSIBILITY OF FLASHING FLANGE INTERFERENCE WITH PANEL SEAM
3. IF FIELD PANEL OVERLAPS AT THE PENETRATION, ATTACHMENT OF THE DOWNSLOPE PANEL ALONG ITS UPSLOPE END, IS NECESSARY
4. CUT OVERSIZED HOLES IN (E) CONC ROOF DECK TO ALLOW FOR THERMAL MOVEMENT
5. VENT STACK AND OTHER PIPES SHALL HAVE A MINIMUM OF 12 INCHES OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS AND OTHER PROJECTIONS



17 A8.20 PIPE VENT PENETRATION AT (E) ROOF
3" = 1'-0"

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CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
JULY 1, 2014
STATE OF OREGON

△	DESCRIPTION	DATE:

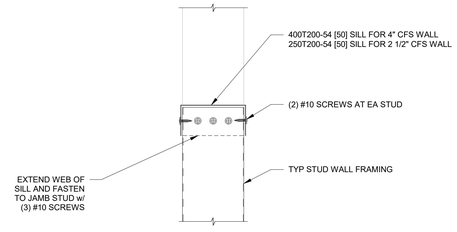
PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

EXTERIOR DETAILS

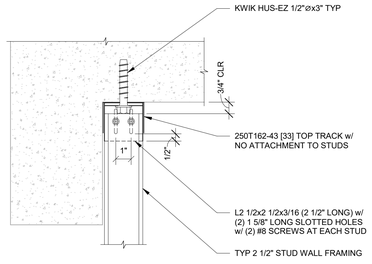
A8.20

BID AND PERMIT SET

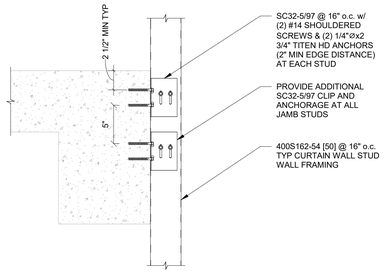
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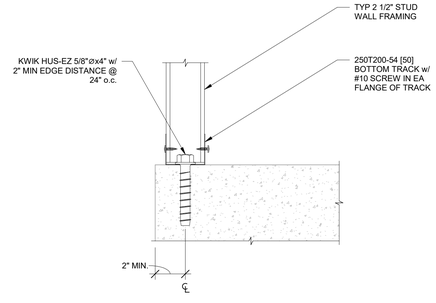
1 A8.30 TYP CFS SILL ATTACHMENT
3" = 1'-0"



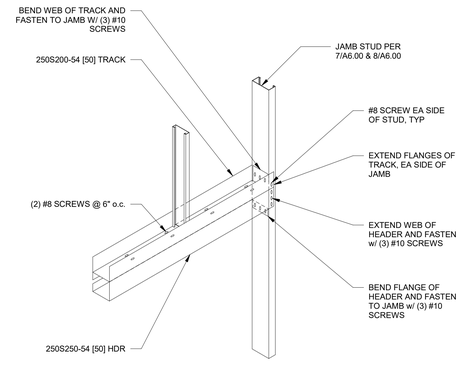
2 A8.30 TOP OF CFS WALL
AT (E) ROOF BEAM (2 1/2" CFS WALL)
3" = 1'-0"



3 A8.30 CFS CURTAIN WALL
TO (E) FLOOR BEAM (4" CFS WALL)
1 1/2" = 1'-0"



4 A8.30 BOTTOM OF CFS WALL
TO (E) FLOOR SLAB (2 1/2" CFS WALL)
3" = 1'-0"



5 A8.30 TYP HEADER TO JAMB DETAIL (2 1/2" CFS WALL)
1 1/2" = 1'-0"

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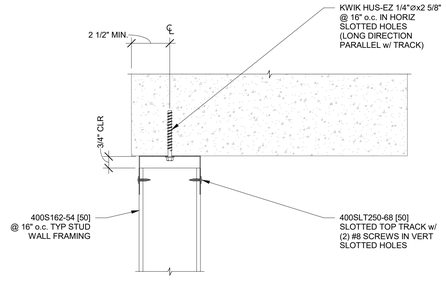
CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

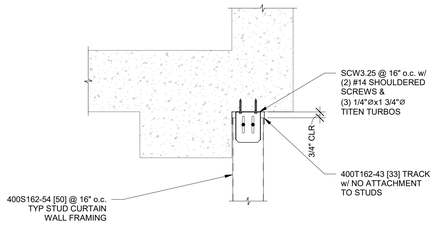
WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

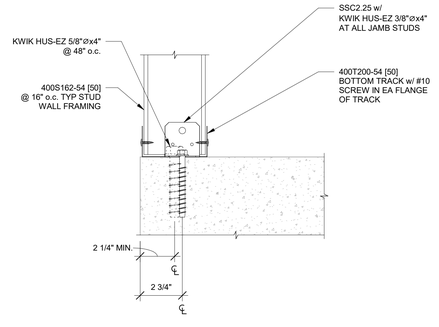
Clackamas River Water



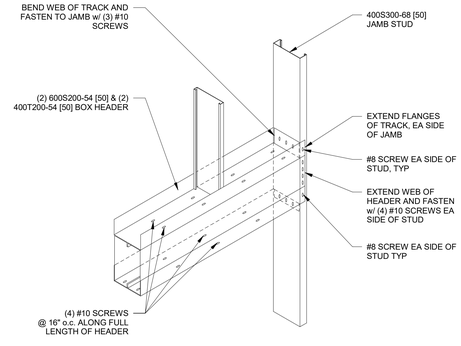
6 A8.30 TOP OF CFS WALL
TO (E) ROOF BEAM (4" CFS WALL)
3" = 1'-0"



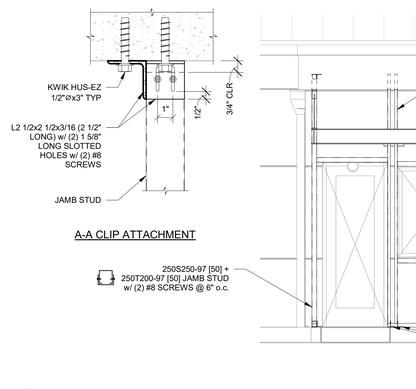
7 A8.30 CFS CURTAIN WALL
TO (E) ROOF BEAM (4" CFS WALL)
1 1/2" = 1'-0"



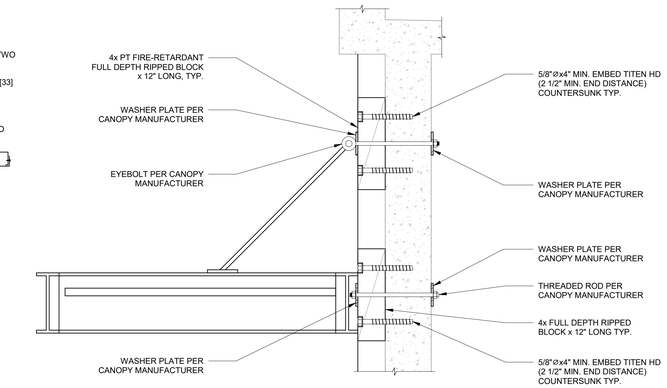
8 A8.30 BOTTOM OF CFS WALL
TO (E) FLOOR SLAB (4" CFS WALL)
3" = 1'-0"



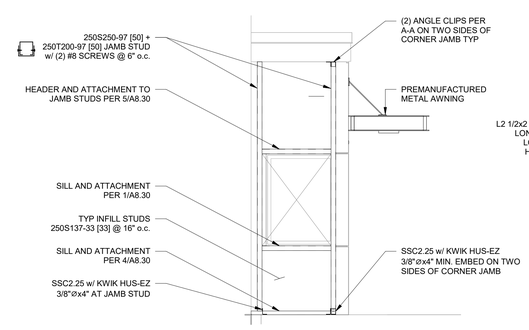
9 A8.30 TYP HEADER TO JAMB DETAIL (4" CFS WALL)
1 1/2" = 1'-0"



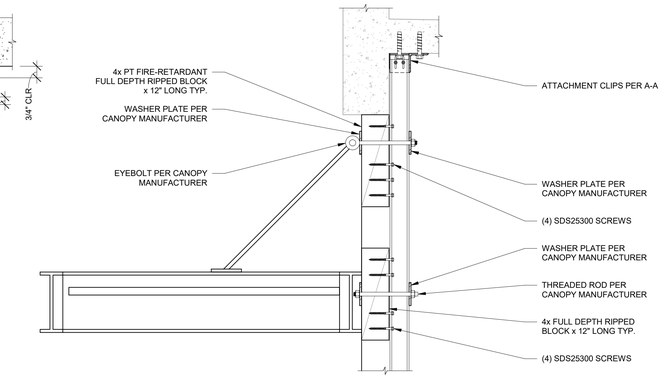
10 A8.30 CFS FRAMING ELEVATION - WEST
3/8" = 1'-0"



11 A8.30 AWNING ATTACHMENT TO (E) CONC WALL
1 1/2" = 1'-0"



12 A8.30 CFS FRAMING ELEVATION - NORTH (SOUTH SIM)
3/8" = 1'-0"



13 A8.30 AWNING ATTACHMENT TO (N) STUD WALL
1 1/2" = 1'-0"

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
FOR
STATE OF OREGON

△	DESCRIPTION	DATE:

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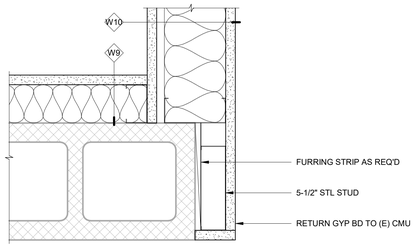
FRAMING DETAILS

A8.30

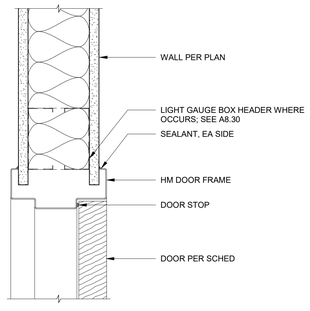
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ONE INCH EQUALS FULL SCALE

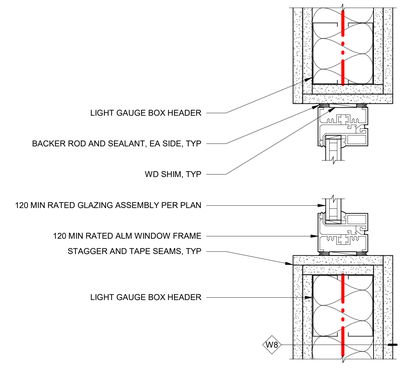
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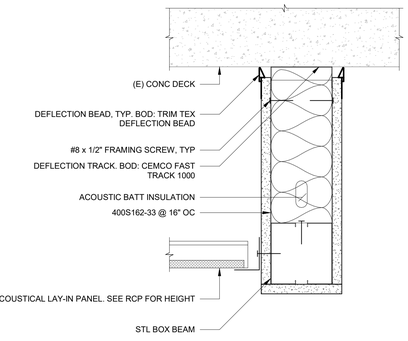
1 A9.00 CONTROL LAB 207 SE CORNER
3" = 1'-0"



2 A9.00 TYP INT DOOR HEAD/JAMB
3" = 1'-0"



3 A9.00 INT WINDOW HEAD/SILL - 2 HR WALL (JAMB SIM)
3" = 1'-0"



4 A9.00 GYP BULKHEAD DETAIL
3" = 1'-0"

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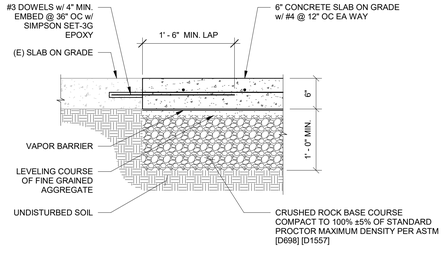
CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

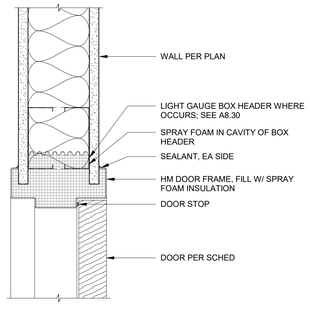
WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

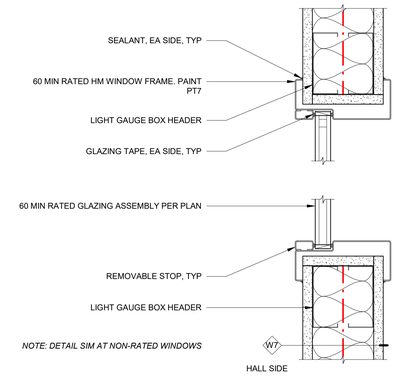
Clackamas River Water



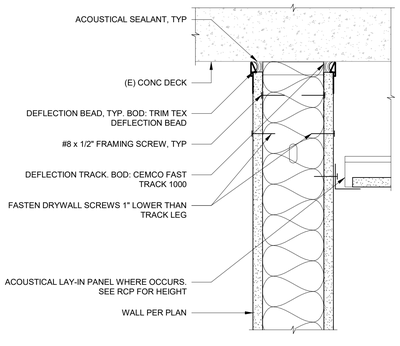
5 A9.00 SLAB PATCH DETAIL
1" = 1'-0"



6 A9.00 INSULATED INT DOOR HEAD/JAMB
3" = 1'-0"

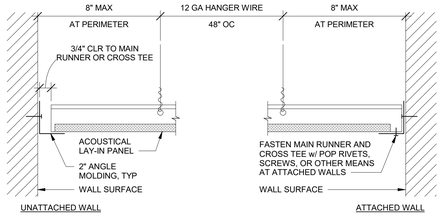


7 A9.00 INT WINDOW HEAD/SILL - 1 HR (JAMB SIM)
3" = 1'-0"

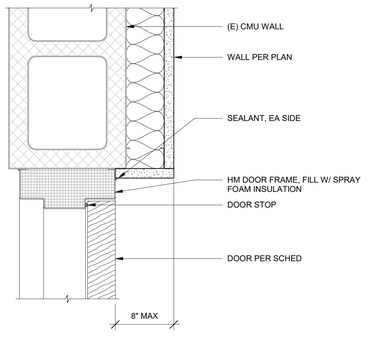


8 A9.00 CEILING DETAIL - TYP PARTITION BRACING
3" = 1'-0"

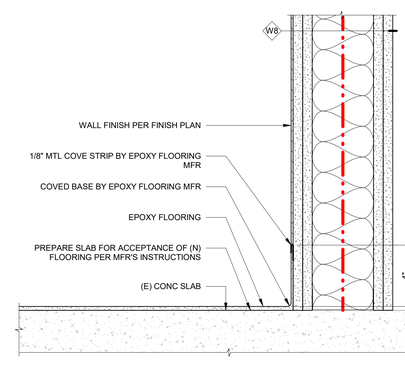
NOTES:
- SUSPENDED ACOUSTICAL CEILING TILES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND ANY APPLICABLE BUILDING CODES
- SUSPENSION GRIDS MUST BE ATTACHED TO 2" MINIMUM ANGLE MOLDING ON TWO ADJACENT WALLS. OPPOSITE WALLS MUST HAVE A 3/4" CLEARANCE
- ATTACH SUSPENSION SYSTEM ON TWO ADJACENT WALLS w/ POP RIVETS, SCREWS, OR OTHER MEANS
- 3/4" CLEARANCE AT PERIMETER ON UNATTACHED WALLS AND STABILIZER BARS TO PREVENT THE SPREAD OF MAIN BEAMS AND CROSS TEES
- SUSPENSION SYSTEM SHALL BE HEAVY-DUTY
- 12 GA HANGER WIRES ARE REQUIRED ON PERIMETER MAINS AND CROSS TEES WITHIN 8" OF WALL
- ENDS OF MAIN BEAMS AND CROSS TEES MUST BE TIED TOGETHER TO PREVENT THEIR SPREADING
- CEILINGS OVER 1,000 SF MUST HAVE HORIZONTAL RESTRAINT WIRE OR RIGID BRACING
- CEILINGS OVER 2,500 SF MUST HAVE SEISMIC SEPARATION JOINTS OR FULL HEIGHT PARTITIONS
- CEILINGS WITHOUT RIGID BRACING MUST HAVE 2" OVERSIZED TRIM RINGS FOR SPRINKLERS AND OTHER PENETRATIONS
- CHANGES IN CEILING PLANE MUST HAVE POSITIVE BRACING
- CABLE TRAYS AND ELECTRICAL CONDUITS MUST BE INDEPENDENTLY SUPPORTED AND BRACED



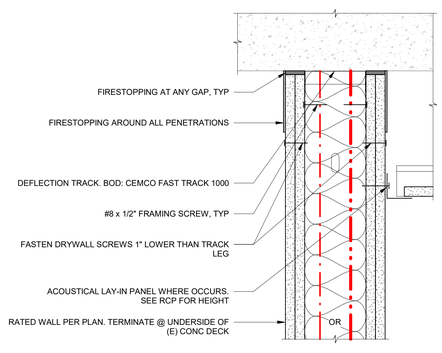
9 A9.00 TYP SUSPENDED CEILING DETAIL
3" = 1'-0"



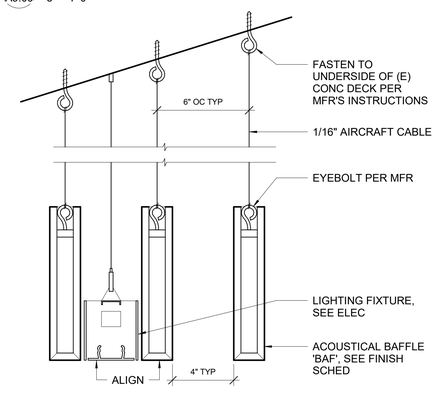
10 A9.00 INSET INT DOOR HEAD/JAMB
3" = 1'-0"



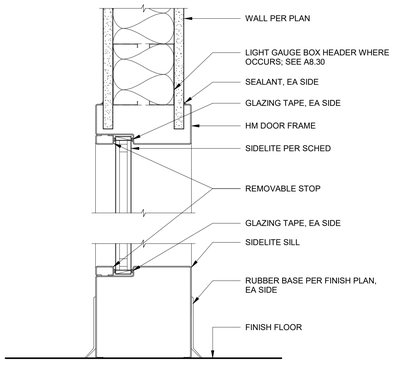
11 A9.00 EPOXY FLOOR TO WALL TRANSITION
3" = 1'-0"



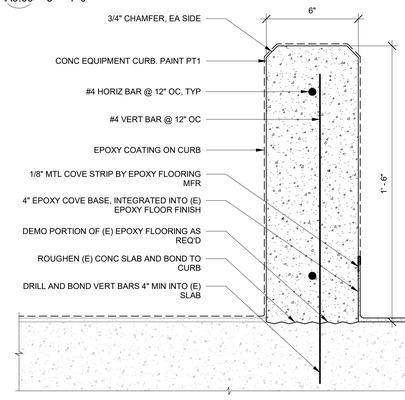
12 A9.00 CEILING DETAIL - RATED WALL
3" = 1'-0"



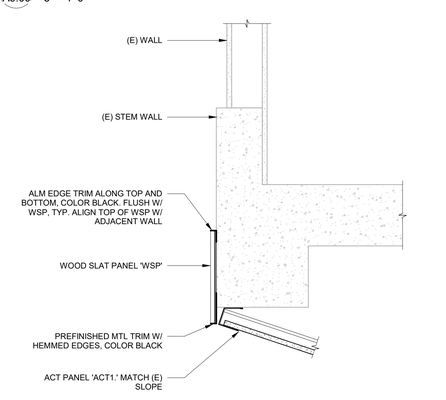
13 A9.00 CEILING BAFFLE DETAIL
3" = 1'-0"



14 A9.00 INT SIDELITE HEAD & SILL (JAMB SIM)
3" = 1'-0"



15 A9.00 EQUIP CURB @ ALUM 108
3" = 1'-0"



16 A9.00 LOBBY CEILING
1 1/2" = 1'-0"

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
JULY 1, 2014
STATE OF OREGON

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PROJECT NO.	P-3116-26
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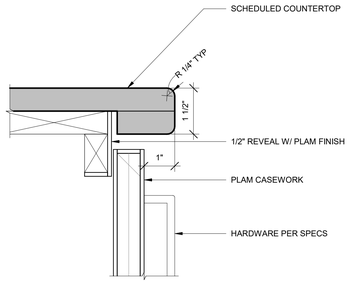
INTERIOR DETAILS

A9.00

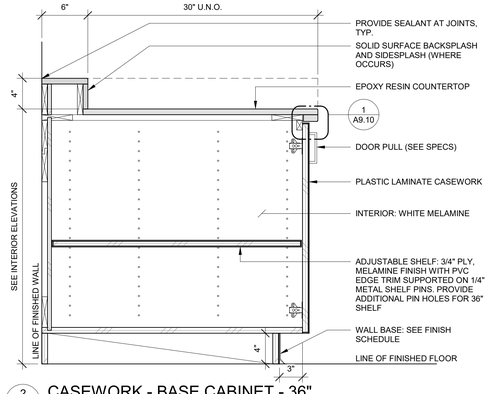
BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

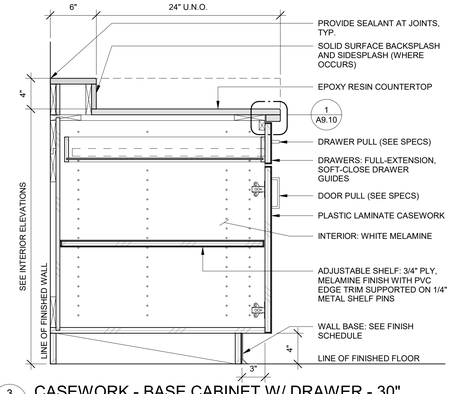
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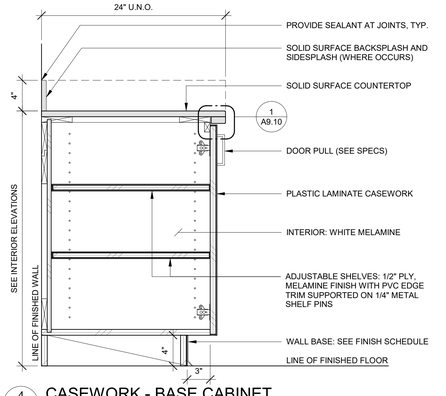
1 A9.10 TYP COUNTERTOP EDGE DETAIL
6" = 1'-0"



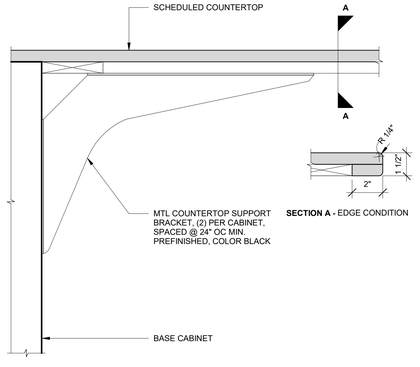
2 A9.10 CASEWORK - BASE CABINET - 36"
1 1/2" = 1'-0"



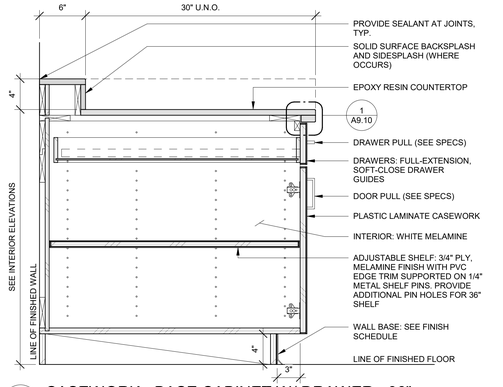
3 A9.10 CASEWORK - BASE CABINET W/ DRAWER - 30"
1 1/2" = 1'-0"



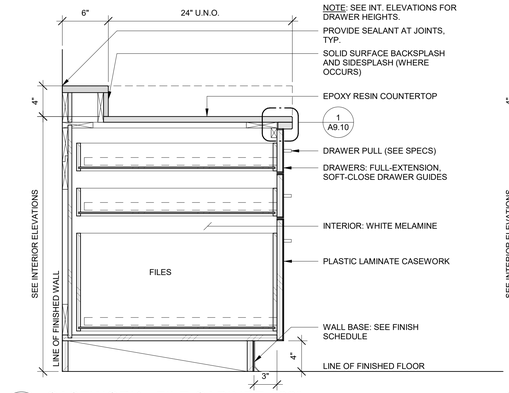
4 A9.10 CASEWORK - BASE CABINET
1 1/2" = 1'-0"



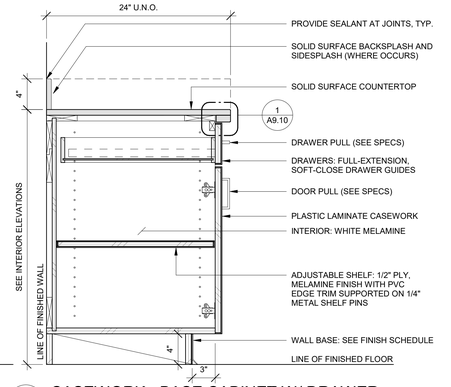
5 A9.10 ISLAND COUNTERTOP
3" = 1'-0"



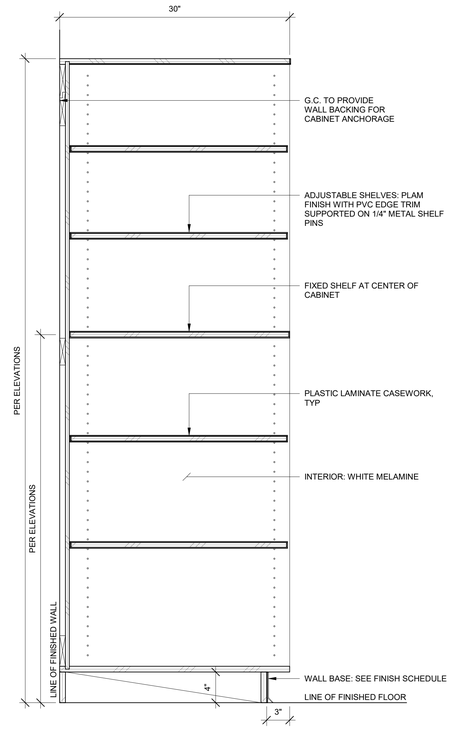
6 A9.10 CASEWORK - BASE CABINET W/ DRAWER - 36"
1 1/2" = 1'-0"



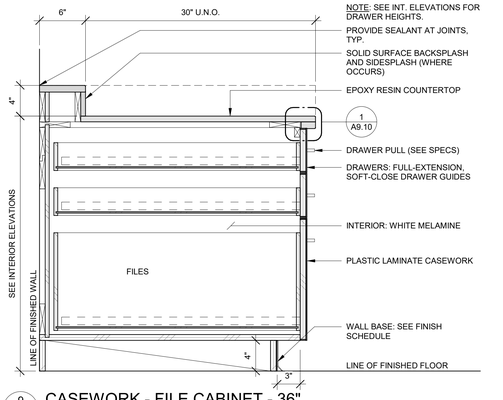
7 A9.10 CASEWORK - FILE CABINET - 30"
1 1/2" = 1'-0"



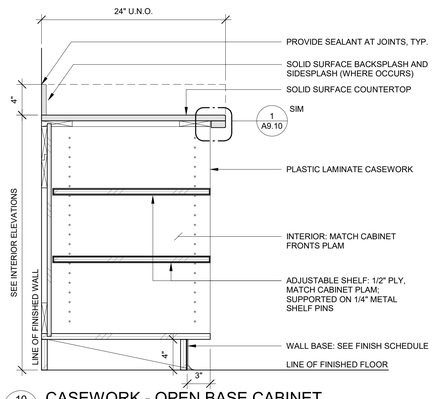
8 A9.10 CASEWORK - BASE CABINET W/ DRAWER
1 1/2" = 1'-0"



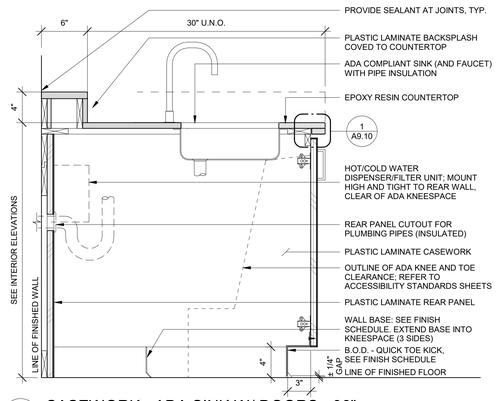
11 A9.10 CASEWORK - TALL CABINET
1 1/2" = 1'-0"



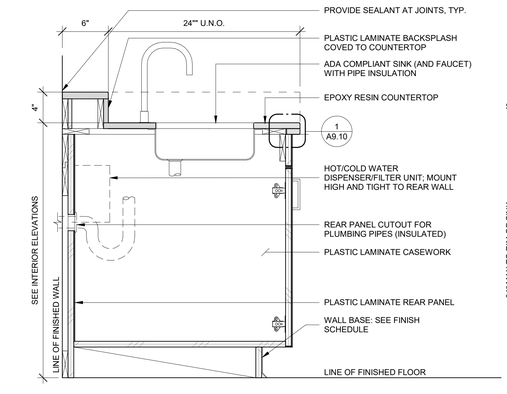
9 A9.10 CASEWORK - FILE CABINET - 36"
1 1/2" = 1'-0"



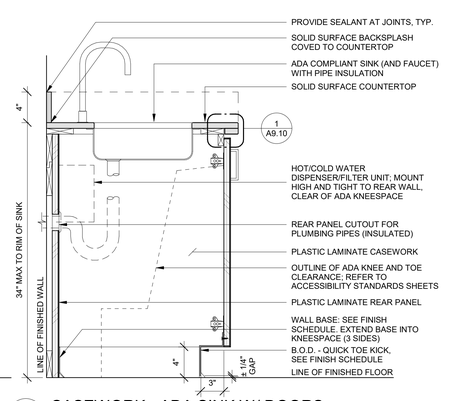
10 A9.10 CASEWORK - OPEN BASE CABINET
1 1/2" = 1'-0"



12 A9.10 CASEWORK - ADA SINK W/ DOORS - 36"
1 1/2" = 1'-0"



13 A9.10 CASEWORK - UNDERMOUNT SINK W/ DOORS - 30"
1 1/2" = 1'-0"



14 A9.10 CASEWORK - ADA SINK W/ DOORS
1 1/2" = 1'-0"

ZCS
524 Main Street, Suite 2
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503.659.2205

CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

REGISTERED ARCHITECT
Matthew J. Crawford
OREGON CITY, OR
FOR THE STATE OF OREGON

△	DESCRIPTION	DATE:

PROJECT NO.	P-3116-26
DESIGNED:	LJS
REVIEWED:	MJC
DATE:	08-07-2026

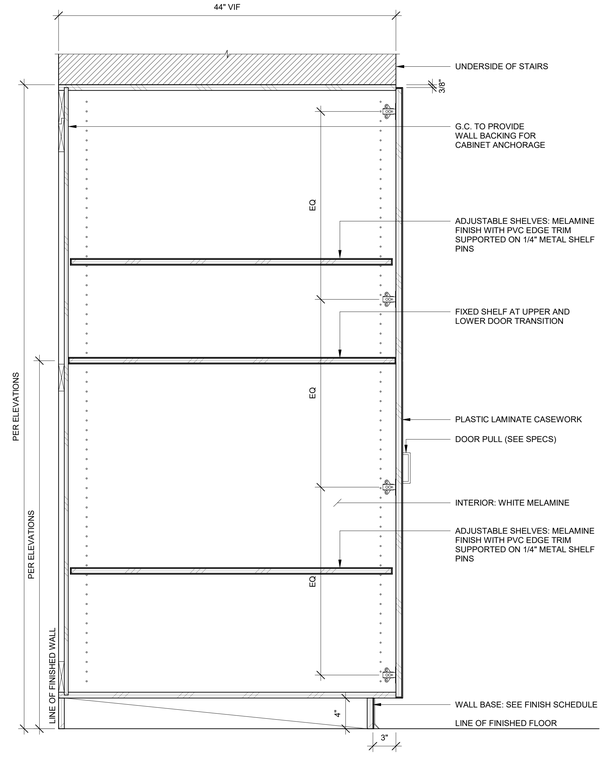
INTERIOR DETAILS

A9.10

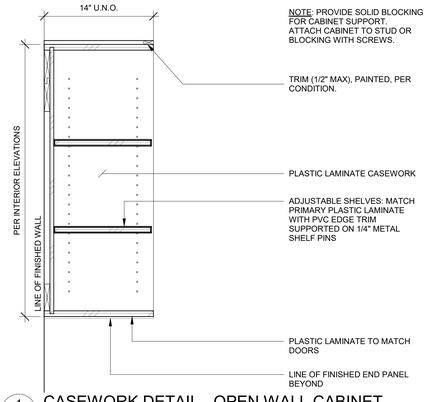
BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

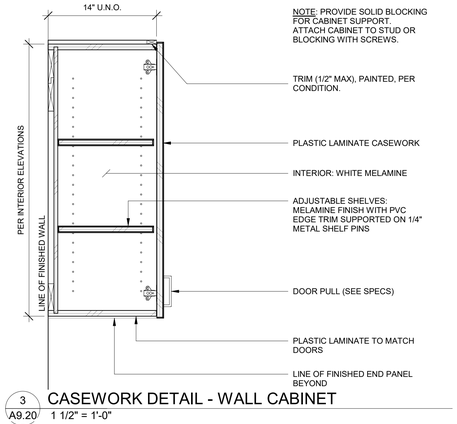
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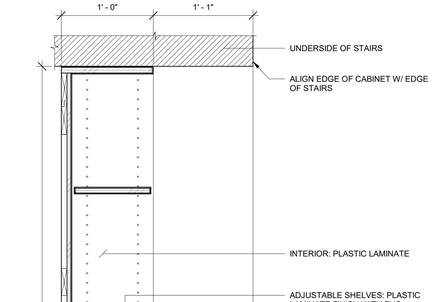
2 A9.20 CASEWORK DETAIL - UNDER-STAIRS TALL CABINET
1 1/2" = 1'-0"



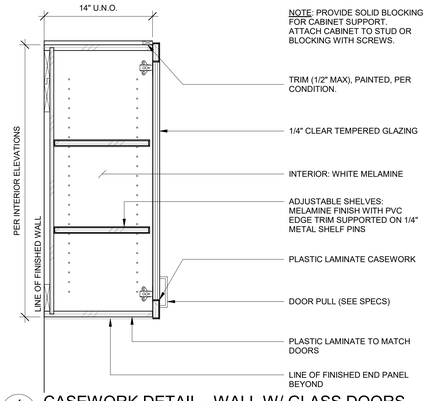
1 A9.20 CASEWORK DETAIL - OPEN WALL CABINET
1 1/2" = 1'-0"



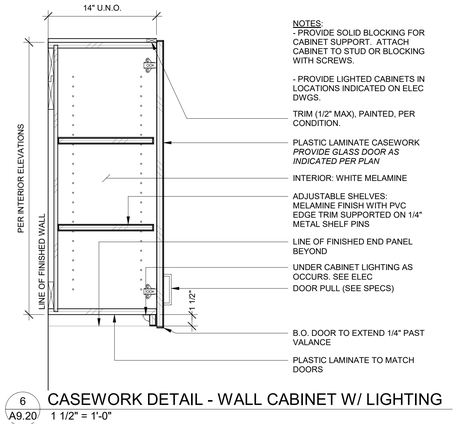
3 A9.20 CASEWORK DETAIL - WALL CABINET
1 1/2" = 1'-0"



5 A9.20 CASEWORK - UNDER-STAIRS W/ UPPERS
1 1/2" = 1'-0"



4 A9.20 CASEWORK DETAIL - WALL W/ GLASS DOORS
1 1/2" = 1'-0"



6 A9.20 CASEWORK DETAIL - WALL CABINET W/ LIGHTING
1 1/2" = 1'-0"

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PROJECT NO.	P-3116-26
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INTERIOR DETAILS

A9.20

BID AND PERMIT SET

ONE INCH EQUALS 1 FULL SCALE
8/7/2026 11:43:44 AM Autodesk Docs://P3116 Clackamas River Water/P3116_ARCH_R26.rvt

PLUMBING SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(A)	ABANDON IN PLACE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
&	AND
A	AQUASTAT, ARCHITECT, ANCHOR, AMPHERE
@	AT
BFP	BACKFLOW PREVENTER
BFF	BELOW FINISHED FLOOR
BTUH	BRITISH THERMAL UNITS PER HOUR
BLDG	BUILDING
CV	CHECK VALVE
CO	CLEANOUT
CW	COLD WATER
CD	CONDENSATE DRAIN
CONT.	CONTINUATION
CFH	CUBIC FEET PER HOUR
CFS	CUBIC FEET PER SECOND
(X)	DEMOLISH
DW	DISHWASHER, DOMESTIC WATER
DET	DOMESTIC EXPANSION TANK
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DN	DOWN
DS	DOWNSPOUT
DSN	DOWNSPOUT NOZZLE
D	DRAIN
DFU	DRAINAGE FIXTURE UNIT
DWV	DRAINAGE, WASTE AND VENT
DF	DRINKING FOUNTAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
(E)	EXISTING
FT	FEET
FFE	FINISHED FLOOR ELEVATION
F	FIRE, FAHRENHEIT
FL	FLOOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FV	FLUSH VALVE
'	FOOT, FEET
(F)	FUTURE
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HZ	HERTZ
HB	HOSE BIBB
HW	HOT WATER
HWFU	HOT WATER FIXTURE UNIT
HWR	HOT WATER RETURN
IN, "	INCHES
IW	INDIRECT WASTE
INV	INVERT ELEVATION
L	LAVATORY
MIN	MINIMUM
MX	MIXING VALVE
MS	MOP SINK
(N)	NEW
N	NORTH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
#	NUMBER
NO.	NUMBER
OD	OVERFLOW DRAIN, OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PLBG	PLUMBING
P	PLUMBING, PUMP
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP, PLUMBING DEMOLITION, PUMPED DISCHARGE
PRV	PRESSURE REDUCING VALVE
QTY	QUANTITY
RWL	RAINWATER LEADER
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
(R)	RELOCATE / RELOCATED LOCATION
RD	ROOF DRAIN
SAN	SANITARY
SB	SERVICE BOX
SHT	SHEET
SA	SHOCK ARRESTOR
SOV	SHUT OFF VALVE
S, SK	SINK
SF	SQUARE FEET
SD	STORM DRAIN
SP	SUMP PUMP, STATIC PRESSURE
TEMP	TEMPERATURE
TP	TRAP PRIMER, TOTAL PRESSURE
TYP	TYPICAL
U, UR	URINAL
V	VACUUM, VENT, VOLT
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
W	WASTE
WC	WATER COLUMN, WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WH	WATER HEATER, WALL HYDRANT
WSFU	WATER SUPPLY FIXTURE UNIT
W/	WITH

General

- KEYED NOTE
- DEMOLISH
- EXISTING WORK
- NEW WORK
- PIPE OR CONDUIT BELOW GRADE
- CONTINUATION
- EXTENT OF DEMOLITION
- POINT OF CONNECTION
- FIXTURE TAG (LEVEL BELOW FIXTURE)
- XXX-X — HVAC EQUIPMENT IDENTIFICATION (REF. ONLY)
- XX-X — PLUMBING EQUIPMENT IDENTIFICATION

Piping Fittings

- AP — ACCESS PANEL
- AQUASTAT
- BLIND FLANGE
- CAP
- COTG — CLEANOUT TO GRADE
- CONCENTRIC REDUCER
- DSN — DOWNSPOUT NOZZLE
- ECCENTRIC REDUCER
- FCO — FLOOR CLEANOUT
- FD — FLOOR DRAIN
- FS — FLOOR SINK
- FLOW DIRECTION
- HOSE BIBB / WALL HYDRANT
- OD — OVERFLOW ROOF DRAIN
- PIPE DROP
- PIPE RISE
- PUMP
- RD — ROOF DRAIN
- SHOCK ABSORBER / WATER HAMMER ARRESTOR
- STRAINER
- T&P RELIEF VALVE WITH PIPE TO DRAIN
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- VTR — VENT THROUGH ROOF
- WCO — WALL CLEANOUT

Piping Systems

- COLD WATER PIPING
- CD — CONDENSATE / INDIRECT DRAIN PIPING
- HOT WATER PIPING
- HOT WATER RETURN PIPING
- 2IG — NATURAL GAS PIPING, 2 LB
- G — NATURAL GAS PIPING, 7" WC PRESSURE
- OD — OVERFLOW DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
- SANITARY VENT PIPING
- SANITARY WASTE OR SOIL PIPING ABOVE GRADE OR FINISHED FLOOR
- SANITARY WASTE OR SOIL PIPING BELOW GRADE OR FINISHED FLOOR
- SD — STORM DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
- SD — STORM DRAIN PIPING BELOW GRADE OR FINISHED FLOOR
- TW — TEMPERED WATER PIPING
- TP — TRAP PRIMER PIPING

Valves

- BFP — BACKFLOW PREVENTER
- CHECK VALVE
- SHUTOFF VALVE, GENERAL

GENERAL DEMOLITION NOTES

AA. COORDINATE DEMOLITION, CUTTING, PATCHING, ETC. WITH GENERAL CONTRACTOR AND EXISTING FIELD CONDITIONS PRIOR TO SUBMITTING CONSTRUCTION CONTRACT BIDS. SEE SPECIFICATIONS GENERAL PROVISIONS, NOT ALL PIPING IS ILLUSTRATED.

BB. SAW CUTTING OF ANY FLOOR, AND CORE DRILLING HOLES LARGER THAN EIGHT INCHES DIAMETER IN STRUCTURAL WALLS, FLOOR OR ROOF REQUIRES THE APPROVAL OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON. CONTRACTOR TO RETAIN THE SERVICES OF THE STRUCTURAL ENGINEER AND FORWARD WET STAMPED STRUCTURAL CALCULATIONS TO THE ARCHITECT PRIOR TO BEGINNING WORK. HOLES SMALLER THAN EIGHT INCHES DIAMETER IN STRUCTURAL WALLS, FLOOR OR ROOF SHALL BE REVIEWED BY THE ARCHITECT AND AUTHORIZED IN WRITING PRIOR TO BEGINNING OF WORK.

CC. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SPACE ALLOTMENT, BEAM LOCATION AND COORDINATION PURPOSES. CONFLICTS REGARDING SPACE REQUIREMENTS, CLEARANCES, INTERFERENCE WITH STRUCTURE OR OTHER WORK, ETC., SHALL BEDIRECTED TO THE ARCHITECT FOR RESOLUTION PRIOR TO INSTALLATION OF WORK.

DD. THE COST OF CUTTING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS, AND FLOOR AS REQUIRED TO ACCOMMODATE WORK AS SHOWN OR SPECIFIED HEREIN, SHALL BE INCLUDED IN THE COST OF THE WORKFOR EACH TRADE. EMPLOY SKILLED WORKMEN TO PERFORM CUTTING AND PATCHING AND RESTORE DISTURBED SURFACES TO ORIGINAL CONDITION.

SPECIFIED IN THE RESPECTIVE SECTIONS OF THE ARCHITECTURAL SPECIFICATIONS, OR AS DIRECTED BY THE ARCHITECT.

EE. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EXISTING WASTE, VENT AND WATER PIPING TO REMAIN IN SERVICE. EXISTING WASTE, VENT AND WATER PIPING SERVING EXISTING PLUMBING FIXTURES, FLOOR SINKS AND FLOOR DRAINS TO BE REMOVED ARE TO BE CAPPED BELOW FLOOR OR REMOVED BACK TO PLUMBING PIPING REMAINING IN SERVICE THEN CAPPED, EXCEPT AS NOTED. CONTRACTOR SHALL REROUTE/REPIPE EXISTING PIPING TO REMAIN AS REQUIRED TO MAINTAIN SERVICE. EXISTING PIPING SERVING OTHER TENANTS/BUILDING SPACES IS TO REMAIN.

FF. REMOVE EXISTING FIXTURES, CLEAN AND RE-CONNECT TO EXISTING SERVICES AFTER NEW WALL AND/OR COUNTER FINISHES HAVE BEEN INSTALLED. COORDINATE LOCATION OF EACH FIXTURE WITH ARCHITECT.

GENERAL PLUMBING NOTES

A. CONDITIONS SHOW ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES TO BE CROSSED OR CONNECTED. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER OF CONDITION IN CONFLICT WITH THE DETAILS/PLANS.

B. COORDINATE INSTALLATION OF PIPING BELOW AND ABOVE GRADE WITH STRUCTURAL COMPONENTS AND OTHER SYSTEMS INSTALLATIONS.

C. COORDINATE FIXTURES, EQUIPMENT, PIPE ROUGH-IN/CONNECTION LOCATIONS AND DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS.

D. ALL PIPING SYSTEMS CROSSING SEISMIC SEPARATIONS SHALL UTILIZE PRE-MANUFACTURED EXPANSION JOINT SYSTEM, SIZED FOR 4 INCH X,Y, AND Z MOVEMENT. UNISOURCE "V" TYPE, HYSPAN OR APPROVED.

E. PIPING ROUTED THROUGH ROOF TO BE INSTALLED PER ARCHITECTURAL REQUIREMENTS (SEE ARCHITECTURAL DETAILS).

F. LOCATE ALL VTR A MINIMUM OF 10'-0" FROM OUTSIDE AIR OPENINGS OF ROOFTOP HVAC EQUIPMENT.

G. LOCATE VALVES FOR SERVICE ACCESSIBILITY. VALVES INSTALLED ABOVE CEILING SHALL BE WITHIN 18" OF CEILING.

H. INSTALL OVERHEAD PIPING AS CLOSE TO STRUCTURE AS POSSIBLE IN AREAS WITH EXPOSED ROOF STRUCTURE.

I. REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS FOR PIPING AND EQUIPMENT.

J. DOWNSPOUT RISERS AND STORM DRAIN RISERS TO BE PROVIDED WITH CLEANOUT AT BASE OF VERTICAL STACK. SIMILAR TO DETAILS _&_/__.

K. PROVIDE CLEANOUTS FOR SANITARY WASTE AND STORM DRAINAGE SYSTEMS WHERE SHOWN AND AS OTHERWISE REQUIRED BY CODE.

L. VERIFY LOCATIONS OF CONNECTIONS TO PIPING INSTALLED BY SITE CONTRACTOR.

M. FURNISH AND INSTALL VALVES, TRAPS, STRAINERS, BACK FLOW PREVENTERS, ETC. NOT FURNISHED BY EQUIPMENT SUPPLIER, BUT REQUIRED FOR PROPER EQUIPMENT OPERATION.

N. CONTRACTOR TO PROVIDE LOCATE/SCOPING SERVICES FOR EXISTING PIPING BELOW GRADE AND DOCUMENT/RECORD, COORDINATE WITH NEW WORK PRIOR TO START OF CONSTRUCTION.

O. ROOF PENETRATIONS TO BE MINIMUM 5'-0" CLEAR OF TWO HOUR WALL SEPARATIONS.

P. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE CONNECTION SIZES.

Q. COORDINATE INSTALLATION OF DUCTWORK, PIPING, FIXTURES, EQUIPMENT, ETC. WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND FIRE PROTECTION SYSTEMS PRIOR TO INSTALLATION.

R. REFER TO ARCHITECTURAL DRAWINGS FOR ADA ACCESSIBILITY REQUIREMENTS.

S. PROVIDE CEILING ACCESS PANELS FOR VALVES LOCATED ABOVE INACCESSIBLE CEILING SYSTEMS. VALVES INSTALLED ABOVE CEILING SHALL BE WITHIN 18" OF CEILING. MAINTAIN FIRE RATINGS WHERE REQUIRED.

T. SEE ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE LOCATIONS.

SHEET INDEX

P0.01 SYMBOL LIST AND GENERAL NOTES - PLUMBING
P0.02 SCHEDULES & DETAILS - PLUMBING

PD2.10 DEMO FIRST FLOOR PLAN - PLUMBING
PD2.20 DEMO SECOND FLOOR PLAN - PLUMBING

P2.10 FIRST FLOOR PLAN - PLUMBING
P2.20 SECOND FLOOR PLAN - PLUMBING

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CLACKAMAS COUNTY STAMP

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WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

INTERFACE ENGINEERING
PROJECT 2026-0405
CONTACT Chris Scott
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

REGISTERED PROFESSIONAL ENGINEER — 65428PE — OREGON — JULY 10, 2005 — ANDREW LASSE

EXPIRES: 12/31/26

△	DESCRIPTION	DATE:

PROJECT NO. P-3116-26
DESIGNED: CS
REVIEWED: AL
DATE: 08-07-26

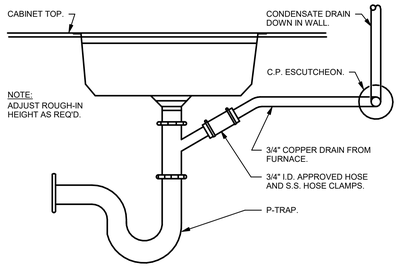
SYMBOL LIST AND GENERAL NOTES - PLUMBING

P0.01

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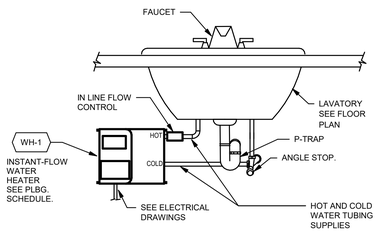
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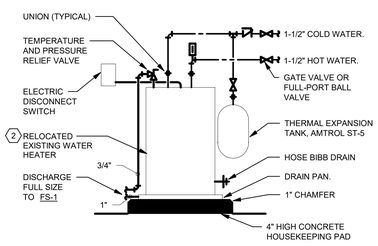
1 CONDENSATE DRAIN CONNECTION

NO SCALE



2 LAV/INSTANT FLOW WATER HEATER

NO SCALE



DETAIL KEYNOTES

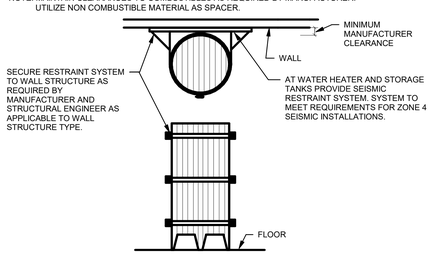
1. LOCATE DISCONNECT SWITCH WITH 50-FEET OF UNIT AND WITHIN CLEAR SIGHT OF UNIT.
2. PROVIDE SEISMIC SUPPORT AT ONE-THIRD AND TWO-THIRDS. REFERENCE DETAIL 5/P4.1.

3 ELECTRIC WATER HEATER

NO SCALE

SIZE	TANK HGT ABOVE FLOOR	NO. OF STRAPS	LOCATION
66 GAL OR LESS	12" OR LESS	1	BETWEEN TOP 1/3 AND 1/2 OF TANK
66 GAL OR LESS	MORE THAN 12"	2	TOP-IN TOP 1/3 OF TANK BOTTOM-3" ABOVE OR BELOW ACCESS PANEL
66 GAL OR 100	12" OR LESS	2	TOP-IN TOP 1/3 OF TANK BOTTOM-3" ABOVE OR BELOW ACCESS PANEL
66 GAL OR 100	MORE THAN 12"	3	TOP-IN TOP 1/3 OF TANK BOTTOM-3" ABOVE OR BELOW ACCESS PANEL MIDDLE-CENTER OF TANK

NOTE: MAINTAIN CLEARANCES TO COMBUSTIBLES AS REQUIRED BY MANUFACTURER.
UTILIZE NON COMBUSTIBLE MATERIAL AS SPACER.



EARTHQUAKE BRACING
4 (WATER HEATERS AND STORAGE TANKS)

NO SCALE

PLUMBING FIXTURE SCHEDULE

				BASIS OF DESIGN			CONNECTION					
SYMBOL	FIXTURE TYPE	ACCESSIBLE	DESCRIPTION	FIXTURE MODEL	FAUCET/VALVE	ACCESSORIES	W	V	CW	HW	ELECTRICAL	COMMENTS
F-1	FAUCET (SAMPLE)	Yes	SINGLE INLET WATER FAUCET, RIGHT HAND CONTROL, 5-1/4-INCH RIGID/SWING GOOSENECK SPOUT, SERATED NOZZLE, CROSS HANDLE WITH CW INDEXED BUTTON	---	CHICAGO FAUCETS LWS1-A11-A		---	---	1/2	---	- - -	SEE ARCHITECTURAL PLANS FOR HEIGHT AND LOCATION. SEE SPECIFICATION SECTION 224000 FOR FLOOR-MOUNTED CARRIER, TRAP COVERS, SUPPLY STOPS AND ADDITIONAL ACCESSORIES
FS-1	FLOOR SINK	No	12-1/2" TOP, CAST IRON FLANGED RECEPTOR, SEEPAGE HOLES, ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM, 1/2-GRATE, ALUMINUM DOME BOTTOM STRAINER, 6-INCH DEEP, NO-HUB OUTLET	JR SMITH 3140Y-12			SEE PLANS	SEE PLANS	PRIMER CONN.	--	--	
HB-1	HOSE BIBB	No	MILD CLIMATE HOSE BIBB, ASSE 1011, VACUUM BREAKER PROTECTED, SURFACE MOUNTED, WITH OPTIONAL METAL WHEEL HANDLE AND LOOSE TEE KEY.	WOODFORD 24			--	--	--	3/4"	--	
IM-1	OUTLET BOX	No	ICE MAKER OUTLET BOX (FIRE RATED) - NSF-372 COMPLIANT, ABS BOX/FRAME, NO-LEAD BRASS VALVE, ASSE 1010 WATER HAMMER ARRESTOR, 1/4" OUTLET CONNECTION	SIOUX CHIEF 696RG1010			--	--	1/2	--	--	SUPPLY CONNECTION TYPE PER PIPING MATERIAL STANDARD PACK (SUPPLY BOX, FRAME, BRACKET & DEBRI COVER). INSTALL WITH BOTTOM OF BOX AT 18 A.F.F. UNLESS NOTED OTHERWISE.
L-1	LAVATORY	Yes	WALL HUNG, ADA COMPLIANT, VITREOUS CHINA, SINGLE-HOLE PUNCH, FRONT OVERFLOW, DECK MOUNTED, MANUAL FAUCET, 4-INCH CENTERS, SINGLE LEVER HOT AND COLD WATER MIXING, 0.5 GPM	AMERICAN STANDARD 0356.421	CHICAGO FAUCETS 420-E2805ABCP	ASSE 1070 COMPLIANT MIXING VALVE	1-1/2	1-1/2	1/2	1/2	- - -	SEE ARCHITECTURAL PLANS FOR HEIGHT AND LOCATION. SEE SPECIFICATION SECTION 224000 FOR FLOOR-MOUNTED CARRIER, TRAP COVERS, SUPPLY STOPS AND ADDITIONAL ACCESSORIES
S-1	SINK	Yes	DROP-IN, SINGLE BOWL, 18 GAUGE STAINLESS STEEL, 22-INCHES X 22-INCHES X 6-1/2-INCHES DEEP, 27-INCH MINIMUM CABINET SIZE, 1-HOLE PUNCH, BARRIER FREE; DECK MOUNTED FAUCET, HIGH ARC KITCHEN FAUCET WITH FULL DOWN SPOUT, SINGLE HOLE MOUNT, 1.5 GPM AERATED FLOW RATE	ELKAY LRAD222265	CHICAGO FAUCETS MODEL 434-ABCP		2	1-1/2	1/2	1/2	- - -	SEE SPECIFICATION SECTION 224000 FOR SUPPLY STOPS AND ADDITIONAL ACCESSORIES.
S-2	SINK (SAMPLE)	Yes	UNDERMOUNT, SINGLE BOWL, STAINLESS STEEL, 32-INCHES X 18-INCHES X 9-INCHES DEEP; DECK MOUNTED FAUCET, 5-3/8-INCH RIGID/SWING GOOSENECK, SINGLE HOLE MOUNTE, SERATED NOZZLE, CROSS HANDLES WITH INDEX BUTTONS	FRANKE VXT11030	CHICAGO FAUCETS LWM1-A11-A		2	1-1/2	1/2	1/2	- - -	SEE SPECIFICATION SECTION 224000 FOR SUPPLY STOPS AND ADDITIONAL ACCESSORIES.
SH-1	SHOWER	Yes	BARRIER FREE, ONE PIECE, 36-INCHES X 36-INCHES X 82-INCHES INSIDE DIMENSIONS, SLIP RESISTANT TEXTURED BOTTOM, HORIZONTAL L-GRAB BAR, VERTICAL GRAB BAR, FOLD UP SEAT, STEEL CURTAIN ROD, 5/8-INCH THRESHOLD; SINGLE HANDLE PRESSURE BALANCING SHOWER VALVE, SERVICE/CHECK STOPS, 1.5 GPM HANDHELD SHOWER HEAD FLOW RATE, 60-INCH FLEXIBLE METAL HOSE, 24-INCH MOUNTING BAR, VACUUM BREAKER	COMFORT DESIGNS SSS 3682BF RRF	ZURN Z7300-SS-HW-MT-H9		2	1-1/2	1/2	1/2	- - -	HANDING BASED ON SEAT LOCATION, COORDINATE WITH ARCHITECT PRIOR TO PROCUREMENT. PROVIDE WITH OPTIONS AS LISTED IN DESCRIPTION.
UR-1	URINAL	No	WALL HUNG, 0.125 GPF FLUSHOMETER, VITREOUS CHINA, TOP SPUD; FLUSH VALVE - MANUAL OPERATION, 0.125 GPF, DUAL-FILTERED BYPASS, POLISHED CHROME FINISH, TOP SPUD	AMERICAN STANDARD 6590.001	SLOAN ROYAL 186-0.125		2	1-1/2	3/4	--	- - -	MOUNT URINAL AT STANDARD HEIGHT, SEE ARCHITECTURAL PLANS FOR HEIGHT AND LOCATION. SEE SPECIFICATION SECTION 224000 FOR FLOOR MOUNTED CARRIER AND ADDITIONAL ACCESSORIES.
WC-1	WATER CLOSET	Yes	FLOOR MOUNTED, FLOOR OUTLET, GRAVITY TANK TYPE, VITREOUS CHINA, ADA HEIGHT, ELONGATED, 1.28 GPF, 12" ROUGH-IN	AMERICAN STANDARD 215AA.104		SEAT - ELONGATED, PLASTIC, SELF-SUSTAINING CHECK HINGES WITH NON-CORRODING STAINLESS STEEL POSTS; BEMIS MODEL 1955SSCT	3	2	1/2	--	--	SEE ARCHITECTURAL PLANS FOR LOCATION. SEE SPECIFICATION SECTION 224000 FOR ADDITIONAL ACCESSORIES.

NOTES:
1 SEE ARCHITECTURAL DRAWINGS FOR ALL FIXTURE MOUNTING HEIGHTS AND LOCATIONS.
* UNLESS NOTED OTHERWISE ON DRAWINGS

ELECTRIC WATER HEATER SCHEDULE - TANKLESS

			BASIS OF DESIGN		CAPACITY		ELECTRICAL				
SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	MFR	MODEL	FLOW RATE (GPM)	TEMPERATURE RISE (DEG F)	VOLTS	PH	WATTS	AMPS	COMMENTS
WH-1	WATER HEATER	BREAK 201 / SINK	EEMAX	XTP020480	2	68	480	3	2400	72	24 AMPS PER PHASE

NOTES:

MISCELLANEOUS EQUIPMENT SCHEDULE

			BASIS OF DESIGN			GAS DATA	ELECTRICAL					
SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	MFR	MODEL	CAPACITY	INPUT (MBH)	VOLTS	PH	AMPS	WATTS	HP	COMMENTS
TP-1 TP-2	TRAP PRIMER		PRECISION PLUMBING PRODUCTS	MP-500			120	1	2	6.3	---	CONTROLLER INCLUDES CIRCUIT BREAKER, MANUAL SWITCH, AND TIME CLOCK. SERVES 1 TO 4 DRAINS.

NOTES:

PLUMBING DEVICES SCHEDULE

			BASIS OF DESIGN			CONNECTION				
SYMBOL	FIXTURE TYPE	DESCRIPTION	MFR	MODEL	ACCESSORIES	W	V	CW	HW	NOTES
LMV-1	LAVATORY MIXING VALVE	THERMOSTATIC MIXING VALVE, ASSE 1070 COMPLIANT, INTEGRAL CHECK VALVES, LEAD FREE: WATTS LFMMV	WATTS	LFMMV		---	---	1/2"	1/2"	

NOTES:

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CLACKAMAS COUNTY STAMP

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WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

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REGISTERED PROFESSIONAL ENGINEER
OREGON
MAY 10, 2002
ANDREW LASSE
EXPIRES: 12/31/26

△	DESCRIPTION	DATE:

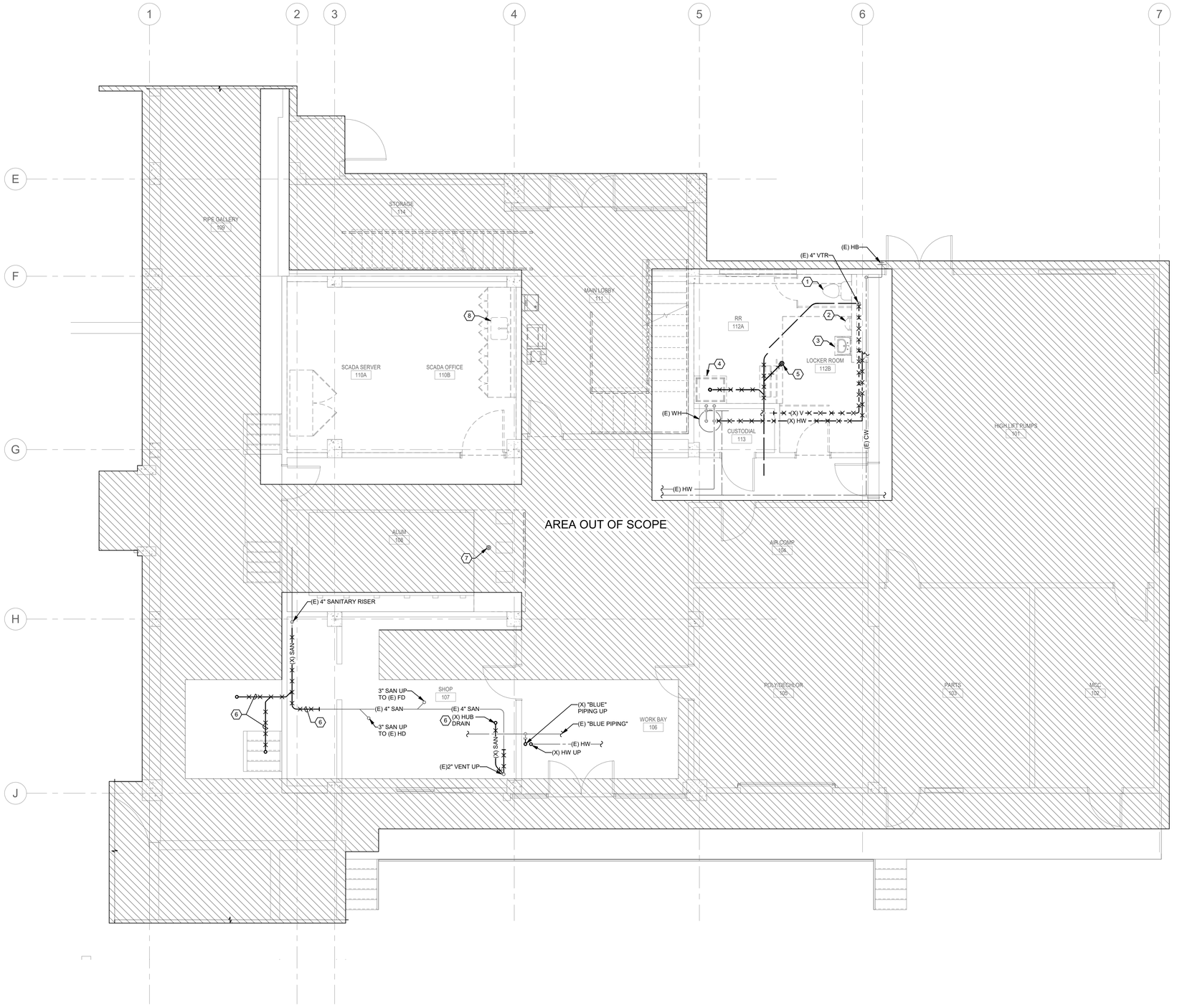
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SCHEDULES & DETAILS - PLUMBING

P0.02

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1 DEMO FIRST FLOOR PLAN - PLUMBING

0' 2' 4' 8'

1/4" = 1'-0"

SHEET KEYNOTES

1. EXISTING WATER CLOSET TO BE DEMOLISHED. CAP EXISTING WATER PIPING IN WALL AND ABANDON. CAP EXISTING WASTE PIPING BELOW FLOOR AND ABANDON.
2. EXISTING URINAL TO BE DEMOLISHED. CAP EXISTING WATER AND WASTE PIPING IN WALL AND ABANDON.
3. EXISTING LAVATORY TO BE DEMOLISHED. CAP EXISTING WATER PIPING AND WASTE PIPING IN WALL AND ABANDON.
4. EXISTING SHOWER TO BE DEMOLISHED AND REPLACED WITH NEW. MODIFY EXISTING WATER, WASTE AND VENT PIPING AS NEEDED TO ACCOMMODATE NEW FIXTURE.
5. DEMOLISH EXISTING FLOOR DRAIN. CAP PIPING BELOW FLOOR.
6. REPLACE EXISTING CAST IRON PIPING WITH SOLID WALL PVC. REFER TO SPECIFICATIONS.
7. EXISTING FLOOR DRAIN. SCOPE OF WORK IN THIS AREA IS BY OWNER.
8. EXISTING SINK TO BE DEMOLISHED. CAP WASTE PIPING BELOW THE FLOOR. CAP WATER AND VENT PIPING ABOVE CEILING AND CAP.

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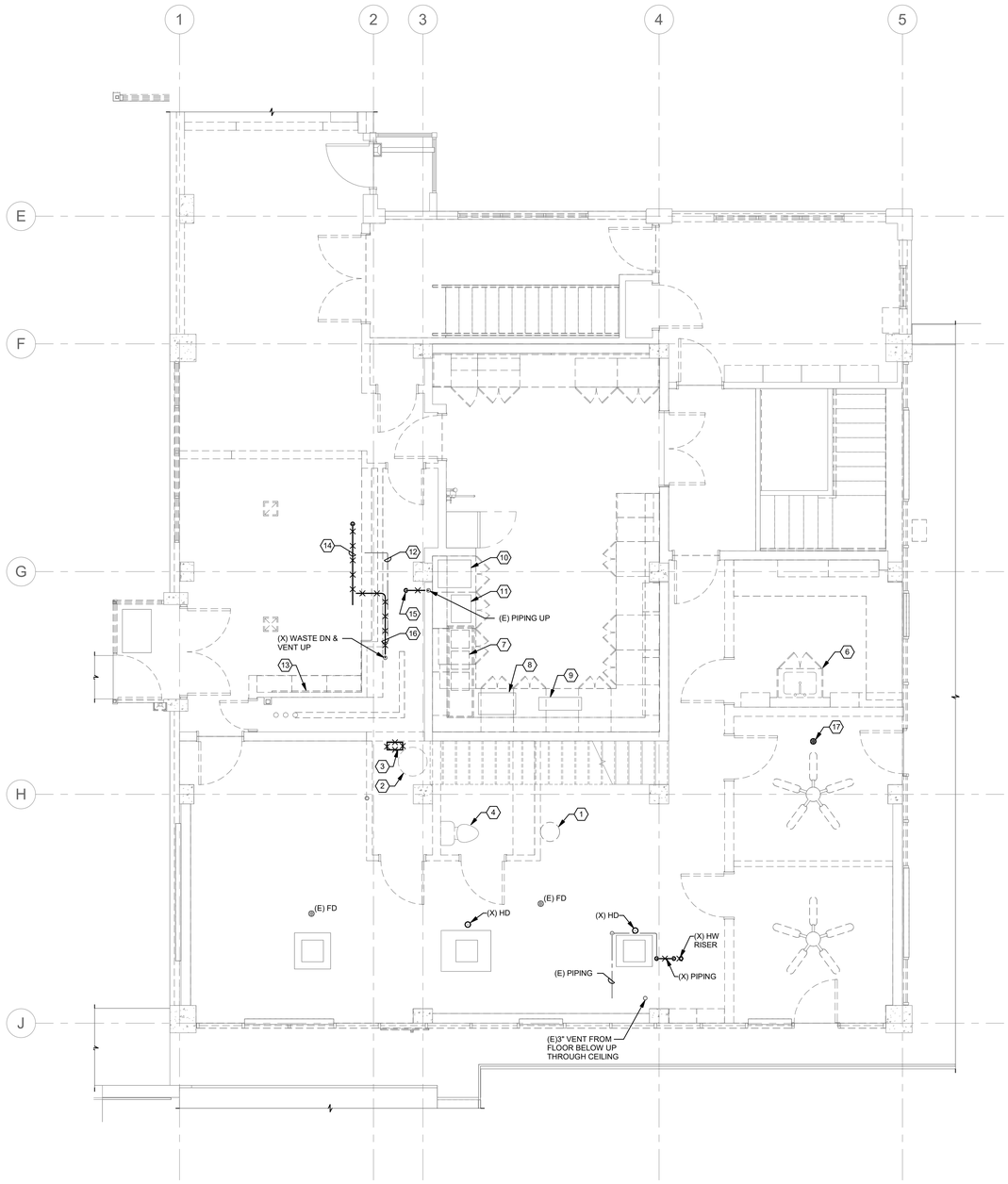
PROJECT NO.	P-3116-26
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DEMO FIRST FLOOR PLAN - PLUMBING

PD2.10

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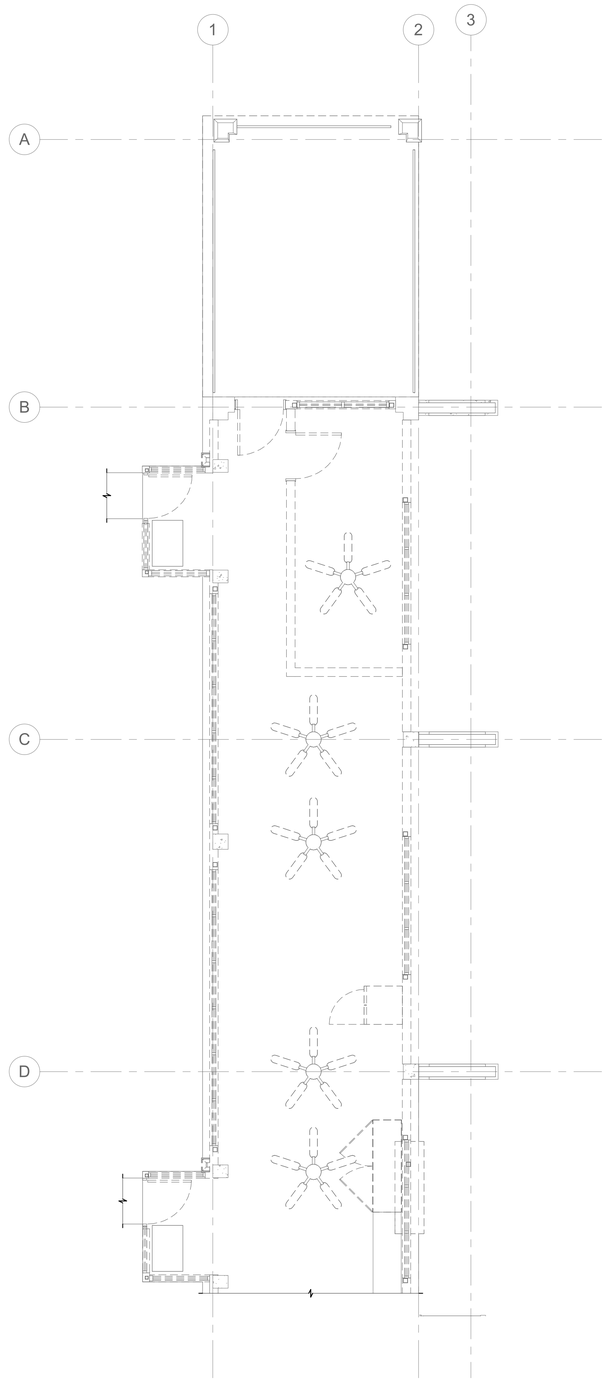
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ONE INCH EQUALS FULL SCALE



1 DEMO SECOND FLOOR PLAN - PLUMBING

0' 2' 4' 8'

1/4" = 1'-0"



2 DEMO SECOND FLOOR PLAN - CONFERENCE - PLUMBING

0' 2' 4' 8'

1/4" = 1'-0"

SHEET KEYNOTES

1. EXISTING EMERGENCY EYE WASH TO BE REMOVED AND REINSTALLED AT A NEW LOCATION. REMOVE EXSTG TEMPERED WATER PIPING.
2. EXISTING WATER HEATER TO BE REMOVED AND REINSTALLED AT A NEW LOCATION. MODIFY EXISTING COLD WATER PIPING AS NEEDED TO ROUTE TO NEW LOCATION.
3. EXISTING EMERGENCY MIXING VALVE TO BE REMOVED AND REINSTALLED AT A NEW LOCATION. REMOVE ALL ASSOCIATED PIPING.
4. EXISTING WATER CLOSET TO BE DEMOLISHED AND ALL ASSOCIATED PIPING IN THE WALL. CAP PIPING WASTE PIPING BELOW CEILING.
5. EXISTING FLOOR DRAIN TO REMAIN. CAST IRON PIPING DOWNSTREAM OF DRAIN TO BE REPLACED WITH PVC.
6. EXISTING SINK TO BE DEMOLISHED AND ALL ASSOCIATED PIPING. REMOVE WATER PIPING BACK TO MAIN AND CAP. REMOVE WASTE AND VENT PIPING BACK TO MAINS AND CAP.
7. EXISTING 3-COMPARTMENT SINK TO BE REMOVED AND REINSTALLED. MODIFY EXISTING UTILITIES AS NEEDED.
8. EXISTING SINK AND METAL PANEL OVER SINK TO BE DEMOLISHED. REMOVE WASTE AND WATER PIPING SERVING SINK AND CAP IN WALL.
9. EXISTING EQUIPMENT WITH DRAIN TO BE REMOVED AND REINSTALLED. REMOVE DRAIN GOING TO DEMOLISHED SINK.
10. EXISTING EQUIPMENT WITH DRAIN TO BE REMOVED AND REINSTALLED. DRAIN TO BE MODIFIED AS PART OF NEW WORK.
11. EXISTING EQUIPMENT WITH DRAIN TO BE REMOVED AND REINSTALLED. NO CHANGES TO EQUIPMENT OR DRAIN.
12. EXISTING (5) WATER SAMPLE PIPES ROUTED ON WALL IN HALLWAY. MODIFY AS NEEDED TO BE IN NEW WALL BEING INSTALLED.
13. EXISTING WASTE, VENT AND WATER PIPING STUBBED OUT OF WALL TO BE REMOVED AND CAPPED AT MAINS.
14. EXISTING WASTE PIPING ON FLOOR TO BE REMOVED AND CAPPED BELOW FLOOR.
15. DEMO EXISTING PIPING IN CHASE DN TO BELOW FLOOR.
16. EXISTING WASTE AND VENT PIPING TO BE DEMOLISHED AND REPLACED WITH NEW.
17. EXISTING FLOOR DRAIN TO BE REMOVED. DEMO PIPING BACK TO MAIN AND CAP.

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MAY 10, 2005
ANDREW LASSE

EXPIRES: 12/31/26

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DEMO SECOND FLOOR PLAN - PLUMBING

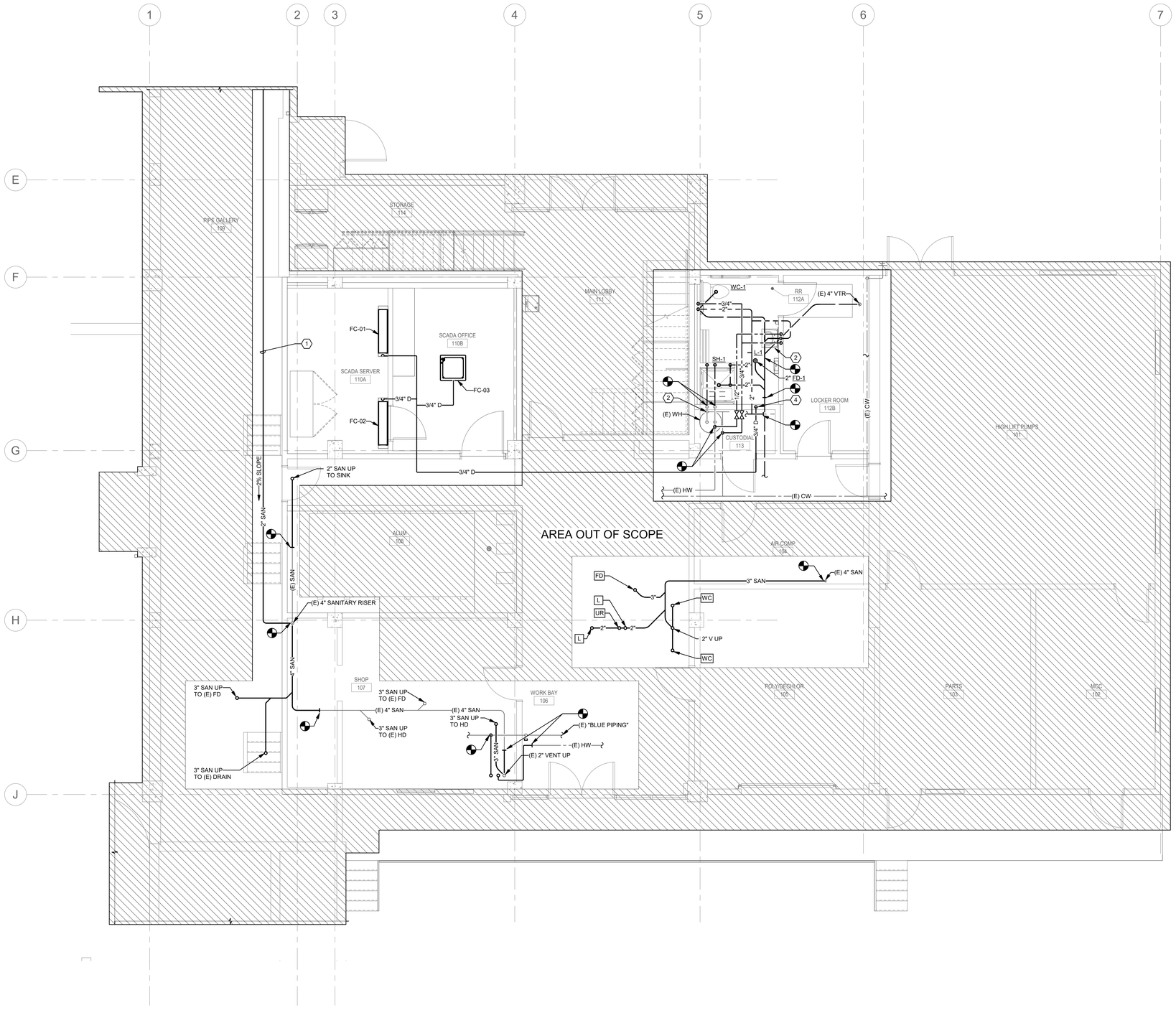
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SHEET KEYNOTES

1. ROUTE PIPING AS HIGH AS POSSIBLE IN PIPE GALLERY.
2. MODIFY EXISTING PIPING SERVING DEMOLISHED SHOWER AS NEEDED TO SERVE NEW SHOWER.
3. INSTALL TRAP PRIMER ON LAVATORY TAILPIECE TO SERVE FLOOR DRAIN.
4. ROUTE CONDENSATE DN ON WALL AND SPILL TO SERVICE SINK WITH CODE APPROVED AIR GAP.



1 FIRST FLOOR PLAN - PLUMBING

0' 2' 4' 8'

1/4" = 1'-0"

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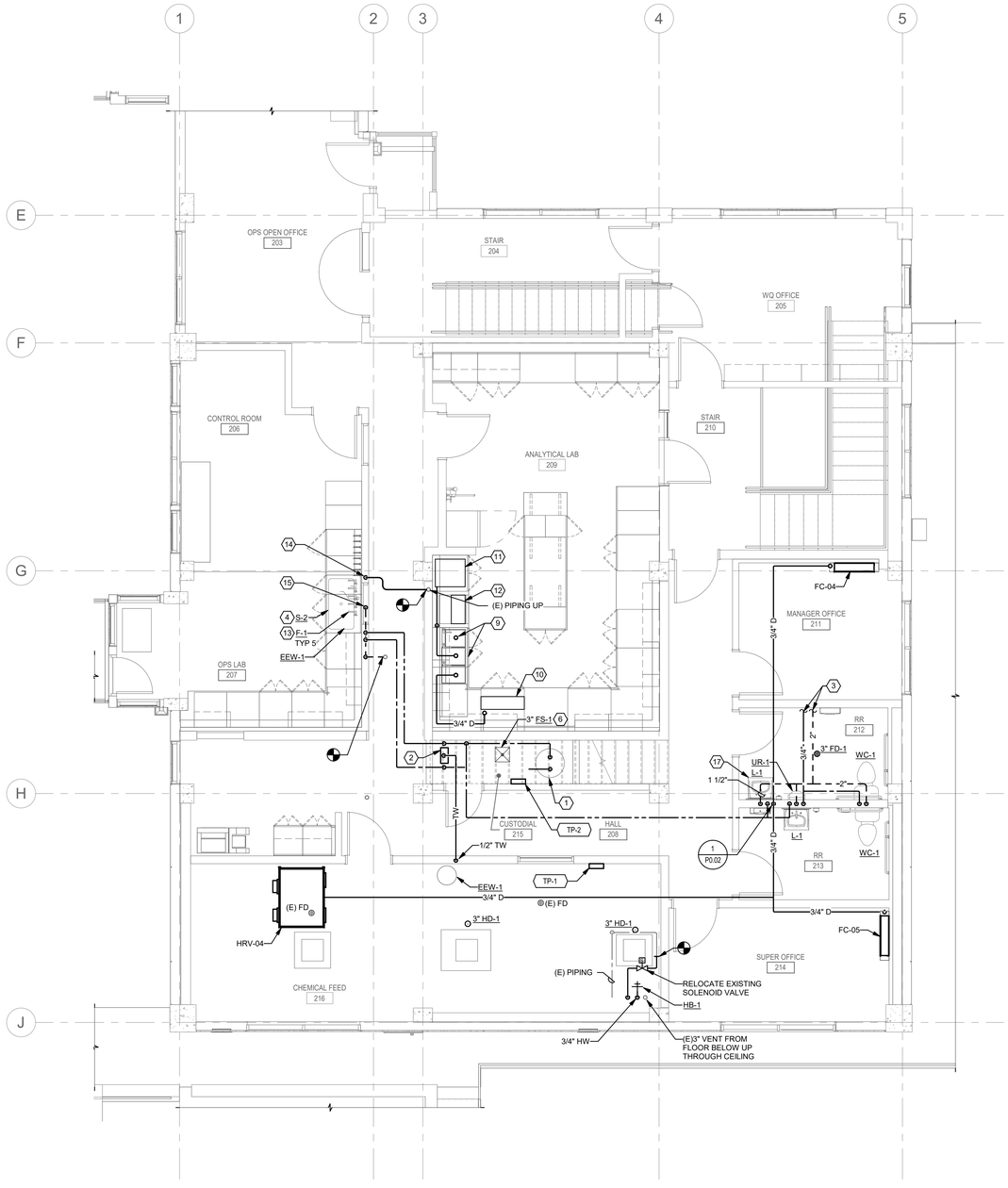
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FIRST FLOOR PLAN - PLUMBING

P2.10

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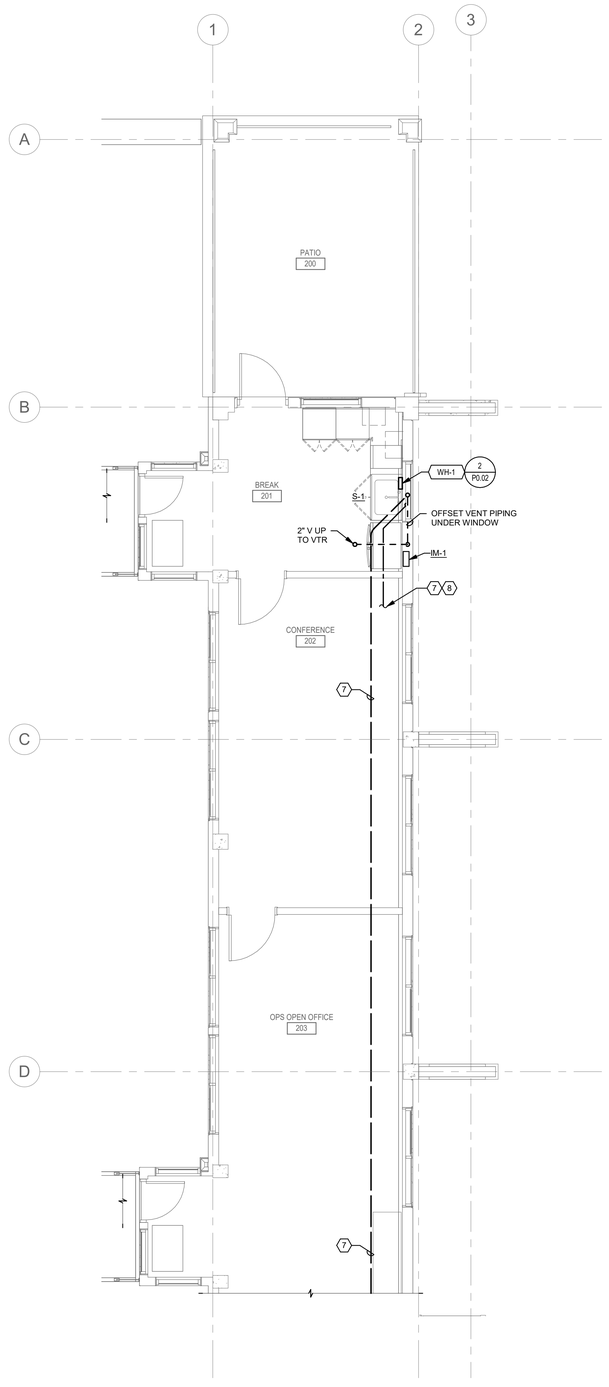
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1 SECOND FLOOR PLAN - PLUMBING

0' 2' 4' 8'

1/4" = 1'-0"



2 SECOND FLOOR PLAN - CONFERENCE - PLUMBING

0' 2' 4' 8'

1/4" = 1'-0"

SHEET KEYNOTES

1. RELOCATED WATER HEATER. SEE 3/P0.02.
2. RELOCATED EMERGENCY MIXING VALVE.
3. CONNECT NEW WATER AND VENT PIPING TO EXISTING PIPING SERVING DEMOLISHED SINK AT THIS LOCATION.
4. ROUTE VENT PIPING FROM SINK IN WALL BELOW WINDOW AND RISE UP ONCE PIPING IS PAST THE WINDOW.
5. RELOCATED EMERGENCY EYE WASH. ROUTE 3/4" TEMPERED WATER LINE FROM MIXING VALVE TO FIXTURE.
6. ROUTE DRAIN LINE FROM EMERGENCY EYE WASH AND WATER HEATER TO FLOOR SINK. CONNECT WASTE PIPING FROM FLOOR SINK TO EXISTING WASTE PIPING SERVING DEMOLISHED WATER CLOSET.
7. PIPING IS ROUTED BELOW THE FLOOR IN THE PIPE GALLERY. SEE 1/P2.10 FOR CONTINUATION.
8. CONNECT NEW WATER PIPING TO EXISTING DOMESTIC WATER PIPING NEAR THE MAIN WATER SERVICE BACKFLOW PREVENTER AT THE END OF THE PIPE GALLERY
9. REINSTALL EXISTING SINK AND FAUCETS. CONNECT TO EXISTING UTILITIES. CONNECT DRAIN LINE FROM NEW DISHWASHER TO SINK TAILPIECE. EXTEND HW LINE OVER TO DISHWASHER.
10. ROUTE DRAIN LINE FROM EQUIPMENT DOWN THROUGH COUNTER. ROUTE BELOW COUNTER AND CONNECT TO SINK DRAIN TAILPIECE. AVOID HATCH THROUGH FLOOR.
11. ROUTE DRAIN LINE FROM EQUIPMENT ALONG COUNTER AND CONNECT TO SINK DRAIN TAILPIECE.
12. DRAIN LINE FROM EQUIPMENT TO DRAIN INTO SINK WITH AIRGAP.
13. CONNECT NEW FAUCETS TO EXISTING SAMPLE LINES. MODIFY SAMPLE PIPING AS NEEDED TO ACCOMMODATE NEW WALL.
14. CONNECT NEW PIPING TO EXISTING AND ROUTE DOWN IN WALL. RECONNECT TO EXISTING PIPING BELOW THE FLOOR IN CEILING SPACE BELOW. CORE DRILL THROUGH SLAB AS NEEDED.
15. 2" WASTE PIPING DOWN. CONNECT TO EXISTING WASTE PIPING IN THE CEILING BELOW. CORE DRILL THROUGH SLAB AS NEEDED.
16. INSTALL TRAP PRIMER ON LAVATORY TAILPIECE TO SERVE FLOOR DRAIN IN RESTROOM.

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Clackamas River Water

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OREGON
MAY 10, 2005
ANDREW LASSE

EXPIRES: 12/31/26

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SECOND FLOOR PLAN - PLUMBING

P2.20

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ONE INCH EQUALS FULL SCALE

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MECHANICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AFF	ABOVE FINISHED FLOOR
AD	ACCESS DOOR
A/C	AIR CONDITION(ED)
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSEPOWER
CD	CEILING DIFFUSER
CV	CHECK VALVE
COP	COEFFICIENT OF PERFORMANCE
CW	COLD WATER
CD	CONDENSATE DRAIN
CU	CONDENSING UNIT
CONT.	CONTINUATION
DB	DECIBEL
(X)	DEMOLISH
DIA	DIAMETER
DX	DIRECT EXPANSION
D	DROP
DB	DRY BULB
EFF	EFFICIENT
ELECT	ELECTRICAL
EER	ENERGY EFFICIENCY RATING
EAT	ENTERING AIR TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EF	EXHAUST FAN
(E)	EXISTING
F	FAHRENHEIT
FT	FEET
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HEAD
HTR	HEATER
HTG	HEATING
HP	HORSEPOWER
HWC	HOT WATER COIL
IN	INCHES
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
KW	KILOWATT
LH	LATENT HEAT
LAT	LEAVING AIR TEMPERATURE
MAX	MAXIMUM
MIN	MINIMUM
MA	MIXED AIR
MD	MOTORIZED DAMPER
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO.	NUMBER
OC	ON CENTER
OBD	OPPOSED BLADE DAMPER
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
PH	PHASE
LBS.	POUNDS
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
QTY	QUANTITY
RET	RETURN
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
R	RISE
SEER	SEASONAL ENERGY EFFICIENCY RATING
SH	SENSIBLE HEAT
SOV	SHUT OFF VALVE
SF	SQUARE FEET
SP	STATIC PRESSURE
SA	SUPPLY AIR
T, TEMP	TEMPERATURE
TD	TEMPERATURE DIFFERENCE
MBH	THOUSAND BTU'S PER HOUR
TH	TOTAL HEAT
TP	TOTAL PRESSURE
V	VOLT
WC	WATER COLUMN
W	WATT
WB	WET BULB
W/	WITH

Control Symbols

- CO2 — CARBON DIOXIDE SENSOR
- T AC-1 — SPACE TEMPERATURE SENSOR/THERMOSTAT

Dampers

- FIRE DAMPER
- MOTORIZED DAMPER
- VOLUME DAMPER

Diffusers and Grilles

- NECK SIZE / TAG / CFM — DIFFUSER OR GRILLE IDENTIFICATION
- EXHAUST AIR
- RETURN AIR
- RETURN/EXHAUST AIR FLOW
- SUPPLY AIR
- SUPPLY AIR FLOW

Ductwork Fittings

- ACOUSTICALLY LINED DUCT (SIZES SHOWN ARE NET INSIDE)
- BELLMOUTH
- CONCENTRIC SQUARE TO ROUND
- CONCENTRIC TRANSITION, RECTANGULAR OR ROUND
- ECCENTRIC TRANSITION, RECTANGULAR OR ROUND
- FLEXIBLE CONNECTION
- NON-SYMMETRICAL WYE
- RECTANGULAR DUCT DROP
- RECTANGULAR DUCT RISER
- RECTANGULAR MAIN WITH RECTANGULAR BRANCH
- RECTANGULAR MAIN WITH ROUND BRANCH
- RECTANGULAR OFFSET LESS THAN 15%%d
- RECTANGULAR OFFSET MORE THAN 15%%d
- ROUND DUCT DROP
- ROUND DUCT RISER
- ROUND DUCT WITH ROUND BRANCH
- ROUND WYE
- SYMMETRICAL WYE
- MITERED ELBOW WITH TURNING VANES
- RADIUSED ELBOW

General

- CONTINUATION
- X / X — DETAIL NUMBER AND SHEET LOCATION
- XX.X — EQUIPMENT IDENTIFICATION
- X — KEYED NOTE
- LIMIT OF DEMOLITION
- POINT OF CONNECTION
- A / M20 — SECTION NUMBER AND SHEET LOCATION
- DEMOLISH
- EXISTING WORK
- NEW WORK
- 30X16 — RECTANGULAR DUCT SIZING
- 30"Ø — ROUND DUCT SIZING

Piping Systems

- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION

GENERAL DEMOLITION NOTES

AA. EXISTING DRAWINGS ARE BASED ON ORIGINAL 1963 DRAWINGS BY CARL E GREEN & ASSOC., 1991 DRAWINGS BY LEE ENGINEERING, AND 2009 DRAWINGS BY WEST YOST ASSOC.

BB. VERIFY CONDITION OF EXISTING EQUIPMENT, EXACT SIZES AND LOCATION OF EXISTING DUCTS AND PIPING, ETC. BEFORE DEMOLITION WORK BEGINS. REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS TO ARCHITECT AND ENGINEER PRIOR TO THE COMMENCEMENT OF DEMOLITION WORK.

CC. SCHEDULE NEW AND DEMOLITION WORK IN ADVANCE WITH OWNER.

DD. REMOVE EXISTING HVAC EQUIPMENT AND ASSOCIATED MATERIALS AS SHOWN AND TURN OVER TO OWNER OR REMOVE FROM SITE, AS DIRECTED BY OWNER.

EE. COORDINATE CEILING REMOVAL WHICH IS REQUIRED FOR ACCESS TO WORK THAT IS NOT DESIGNATED FOR REMOVAL. NOTIFY ARCHITECT AND OWNER PRIOR TO COMMENCING REMOVAL OF EXISTING CEILING WHICH IS DETERMINED TO BE REQUIRED FOR REMOVAL WORK. REMOVE ONLY THAT PORTION NECESSARY TO ACCESS AND COMPLETE THE WORK. UPON COMPLETION OF THE ABOVE CEILING WORK, REPLACE CEILING TO MATCH EXISTING CEILING.

FF. NOTIFY OWNER UPON DISCOVERY OF ANY DUCT DEBRIS, MOLD, ETC. THAT REQUIRE ADDITIONAL CLEANING PRIOR TO RECONNECTING TO NEW DUCTS.

GENERAL MECHANICAL NOTES

A. CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT OF CONDITION IN CONFLICT WITH THE PLANS.

B. COORDINATE INSTALLATION OF DUCTWORK, PIPING, FIXTURES, EQUIPMENT, ETC. WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL SYSTEMS PRIOR TO INSTALLATION.

C. PROVIDE ONE BALANCING DAMPER FOR EACH AIR INLET/ OUTLET SHOWN ON PLAN. WHERE DAMPERS ARE LOCATED ABOVE INACCESSIBLE CEILING SYSTEMS, PROVIDE CEILING ACCESS PANELS FOR DAMPERS OR CONCEALED VOLUME DAMPER REGULATORS. MAINTAIN ASSEMBLY FIRE RATINGS WHERE REQUIRED.

D. INSTALL THERMOSTATS AT 48-INCHES AFF TO TOP OF SENSOR UNLESS OTHERWISE NOTED ON DRAWINGS. WHERE THERE ARE ADJACENT SWITCHES, SENSORS, CONTROLS, ETC, ALIGN THERMOSTAT, CENTERLINE TO CENTERLINE, WITH ADJACENT COMPONENTS, UNLESS OTHERWISE NOTED ON DRAWINGS.

E. COORDINATE EXACT LOCATION OF ALL CEILING GRILLES AND DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLAN, ARCHITECTURAL INTERIOR ELEVATIONS, LIGHTING, AND STRUCTURAL CONDITIONS. ARCHITECTURAL PLANS TO PROVIDE FINAL GRILLE AND DIFFUSER LOCATIONS IN THE EVENT OF A CONFLICT.

F. ALL WORK PERFORMED AND MATERIAL SUPPLIED SHALL CONFORM TO ALL STATE AND LOCAL CODES AND ALL OTHER APPLICABLE LAWS AND STATE REGULATIONS INCLUDING APPLICABLE SEISMIC REQUIREMENTS.

G. MAINTAIN ALL OUTSIDE AIR INTAKE OPENINGS MINIMUM 10-FEET FROM ALL MECHANICAL VENTS, PLUMBING VENTS AND EXHAUST FANS.

H. PAINT ALL DIFFUSERS, REGISTERS AND GRILLES PER ARCHITECTURAL INSTRUCTIONS. ANY GRILLES INSTALLED IN GYPSUM BOARD WALLS AND CEILINGS ARE TO BE FURNISHED WITH FACTORY MILL OR PRIMER FINISH, READY FOR PAINTING IN THE FIELD.

I. DIFFUSER/GRILLE RUNOUTS ARE SAME SIZE AS DIFFUSER/GRILLE NECK SIZE UNLESS OTHERWISE NOTED ON PLANS.

J. DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INTERNAL DIMENSIONS. WHEN ACOUSTICAL DUCT LINING IS REQUIRED INCREASE DUCT SIZE AS NECESSARY TO MAINTAIN THE CLEAR INTERNAL DIMENSIONS.

K. EQUIPMENT TO BE ACCESSIBLE FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT WITHOUT REMOVING PERMANENT CONSTRUCTION, OTHER EQUIPMENT, VENTING SYSTEMS, PIPING, OR DUCTS CONNECTED TO THE EQUIPMENT BEING SERVICED.

L. MAINTAIN MINIMUM DISTANCE OF 3-FEET BETWEEN ALL EXHAUST OUTLETS AND DOORS/OPERABLE WINDOWS.

M. FOR ALL DUCT CONNECTIONS TO MECHANICAL EQUIPMENT, PROVIDE TRANSITION FROM DUCT SIZE SHOWN TO EQUIPMENT CONNECTION SIZE.

N. ADJUST THROW OF ALL AIR DEVICES TO NOT INTERFERE WITH SUSPENDED LIGHTING.

O. FAN COIL UNITS AND ASSOCIATED PIPING IN SCADA ARE NOT TO BE LOCATED DIRECTLY OVER EQUIPMENT IN THE SPACE.

P. INSTALL ALL EQUIPMENT SUCH THAT MANUFACTURER RECOMMENDED CLEARANCES ARE MAINTAINED.

Q. DETAILS APPLY EVEN IF NOT REFERENCED ON PLANS OR DETAILS.

R. INSTALL 1.5X RADIUS ELBOWS WHERE SPACE ALLOWS. OTHERWISE INSTALL MITERED ELBOWS WITH TURNING VANES CONSISTENT WITH SPECIFICATIONS.

S. DUCTS, PIPING, AND EQUIPMENT TO BE INSTALLED AS HIGH AS POSSIBLE IN SPACES UNLESS OTHERWISE NOTED.

T. COORDINATE WITH STRUCTURAL DRAWINGS FOR ALL SLAB AND WALL PENETRATIONS.

U. SUPPORT EQUIPMENT, DUCTS, PIPING AS SPECIFIED AND AS SHOWN IN DETAILS. ENSURE EQUIPMENT WILL OPERATE WITHOUT OBJECTIONABLE VIBRATION AND NOISE.

V. WHERE THE INSIDE OF DUCTS ARE VISIBLE FROM GRILLES OR DIFFUSERS, PAINT VISIBLE PORTION OF INSIDE OF DUCT FLAT BLACK.

W. PENETRATIONS THRU RATED ASSEMBLIES TO BE APPROPRIATELY SEALED.

SHEET INDEX

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M2.10	FIRST FLOOR PLAN - MECHANICAL
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CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
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WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

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PROJECT 2026-0405
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REGISTERED PROFESSIONAL ENGINEER — OREGON — 95438PE — MAY 10, 2005 — ANDREW LASSE

EXPIRES: 12/31/26

△	DESCRIPTION	DATE:

PROJECT NO.	P-3116-26
DESIGNED:	TL
REVIEWED:	AL
DATE:	08-07-26

SYMBOL LIST AND GENERAL NOTES - MECHANICAL

M0.01

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

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HEAT RECOVERY UNIT SCHEDULE

		BASIS OF DESIGN		SUPPLY FAN					EXHAUST FAN				HEAT RECOVERY	FILTER	ELECTRICAL					
SYMBOL	AREA SERVED	MFR	MODEL	TOTAL CFM	MIN OSA CFM	ESP (IN H2O)	MHP / WATTS	VFD/ ECM	TOTAL CFM	ESP (IN H2O)	MHP / WATTS	VFD/ ECM	TYPE	EFF MERV	VOLTS	PH	MCA	MOCP	APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
HRV-01	SCADA OFFICE 10B	PANASONIC	FV-06VE1	60	60	0.35	20 (W)	ECM	60	0.35	20 (W)	ECM	CORE	13	120	1	-	-	24x16x9	12	1,3
HRV-02	MANAGER OFFICE 211	PANASONIC	FV-06VE1	60	60	0.35	20 (W)	ECM	60	0.35	20 (W)	ECM	CORE	13	120	1	-	-	24x16x9	12	1,3
HRV-03	SUPER OFFICE 215	PANASONIC	FV-06VE1	60	60	0.35	20 (W)	ECM	60	0.35	20 (W)	ECM	CORE	13	120	1	-	-	24x16x9	12	1,3
HRV-04	CHEMICAL FEED 217	RENEWAIRE	HE07IN	360	360	1	1/2	ECM	500	1	1/2	ECM	CORE	13	120	1	12.2	15	50x38x18	250	2,3

NOTES:
1. PROVIDE WITH INTERNAL MULTI-SPEED SELECTOR SWITCH ADJUSTS FROM 20 TO 50 CFM, AND OCCUPANT-CONTROLLED WALL SWITCH HIGH-SPEED OPERATION UP TO 60 CFM ON DEMAND. PROVIDE WITH CONCENTRIC WALL VENT KIT.
2. PROVIDE WITH WALL MOUNTED RENEWAIRE DIGITAL TIME CLOCK MODEL TC7D-W.
3. MINIMUM ENERGY RECOVERY EFFICIENCY: 63% HEATING, 60% COOLING.

FAN SCHEDULE

		BASIS OF DESIGN				AIR FLOW (CFM)	ESP (IN H2O)	FAN RPM	MAX RPM	SOUND (dB)	ELECTRICAL			APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
SYMBOL	AREA SERVED	MFR	MODEL	TYPE	DRIVE						VOLTS	PH	MHP / WATTS			
EF-01	RR/LOCKER 112	GREENHECK	G-095-VG	CENT. DOWNBLAST	DIRECT	400	0.35	1197	1725	49	120	1	1/6	22x22x17	35	3,4
EF-02	RR 212	PANASONIC	FV-0511VKS3	CEILING CABINET	DIRECT	75	0.35	1120	1300	-	120	1	16.8 (W)	13x13x8	10	1,5
EF-03	RR 213	PANASONIC	FV-0511VKS3	CEILING CABINET	DIRECT	75	0.35	1120	1300	-	120	1	16.8 (W)	13x13x8	10	1,5
EF-04	BREAK 201	GREENHECK	CUE-080-VG	CENT. SIDEWALL	DIRECT	240	0.35	1372	1725	51	120	1	1/10	23x23x19	40	3,5
EF-05	SODA ASH STORAGE 302	GREENHECK	SQ-160-VG	CENT. INLINE	DIRECT	1750	0.5	889	1140	54	277	1	3/4	26x26x26	110	3
CF-01	CONFERENCE 202	BIG ASS FANS	HAIKU MK-HK4-04	CEILING	DIRECT	5170	-	-	177	35	120	1	14.7 (W)	52" DIA	20	2
CF-02	OPS OPEN OFFICE 203	BIG ASS FANS	HAIKU MK-HK4-04	CEILING	DIRECT	5170	-	-	177	35	120	1	14.7 (W)	52" DIA	20	2

NOTES:
1. PROVIDE WITH DUAL MOTION AND HUMIDITY SENSORS WITH ADJUSTABLE DELAY OFF TIMER THAT CAN BE SET FROM 30 SECONDS TO 60 MINUTES.
2. PROVIDE WITH WALL CONTROLLER WITH FAN SPEED AND DIRECTION ADJUSTMENT.
3. ELECTRONICALLY COMMUTATED MOTOR (ECM).
4. MOTORIZED DAMPER
5. BACKDRAFT DAMPER

CONDENSING UNIT SCHEDULE

		BASIS OF DESIGN			AIR SOURCE HEAT PUMP CONDENSER							ELECTRICAL					
						COOLING			HEATING								
SYMBOL	AREA SERVED	MFR	MODEL	ASSOC FAN COIL	NOM TONS	CAP (MBH)	AMBIENT DB (°F)	EER	CAP (MBH)	AMBIENT WB (°F)	HSPF	VOLTS	PH	MCA	MOCP	MAX WT (LBS)	NOTES
CU-01	SCADA SERVER 110A	LG	KUSAP301A	FC-01	2.5	30	95	11.3	32.4	47	8.5	208	1	23	30	160	1
CU-02	SCADA SERVER 110A	LG	KUSAP301A	FC-02	2.5	30	95	11.3	32.4	47	8.5	208	1	23	30	160	1
CU-03	SCADA OFFICE 110B	LG	KUSX091A	FC-03	0.75	9	95	13.9	11	47	10	208	1	13.4	15	75	1
CU-04	MANAGER OFFICE 210	LG	KUSAE091A	FC-04	0.75	9	95	12	10.9	47	8.7	208	1	10	15	60	1
CU-05	SUPER OFFICE 215	LG	KUSAE091A	FC-05	0.75	9	95	12	10.9	47	8.7	208	1	10	15	60	1
																	1

NOTES:
1. FAN COIL UNIT POWERED FROM CONDENSING UNIT.

FAN COIL SCHEDULE (DX)

		BASIS OF DESIGN				DX COOLING COIL			HEAT PUMP HTG	ELECTRICAL			
SYMBOL	AREA SERVED	MFR	MODEL	UNIT TYPE	ASSOC CU	NOM TONS	TOTAL CAP (MBH)	SENS CAP (MBH)	(MBH)	VOLTS	PH	MAX WT (LBS)	NOTES
FC-01	SCADA SERVER 110A	LG	KNSAP301A	WALL-MOUNTED	CU-01	2.5	30	24	32.4	208	1	50	1
FC-02	SCADA SERVER 110A	LG	KNSAP301A	WALL-MOUNTED	CU-02	2.5	30	24	32.4	208	1	50	1
FC-03	SCADA OFFICE 110B	LG	KNUDB091A	CASSETTE	CU-03	0.75	9	7.2	11	208	1	30	1
FC-04	MANAGER OFFICE 210	LG	KNSAE091A	WALL-MOUNTED	CU-04	0.75	9	7.2	10.9	208	1	20	1
FC-05	SUPER OFFICE 215	LG	KNSAE091A	WALL-MOUNTED	CU-05	0.75	9	7.2	10.9	208	1	20	1

NOTES:
1. FAN COIL UNIT POWERED FROM CONDENSING UNIT.

ELECTRIC WALL HEATER SCHEDULE

		BASIS OF DESIGN			ELECTRICAL			APPROX. DIMS (WxHxD)	MAX WT (LBS)	NOTES
SYMBOL	AREA SERVED	MFR	MODEL	TYPE	VOLTS	PH	HEAT KW			
EWH-01	RR 112A	QMARK	CWH	RECESSED	277	1	1	10-5/8 x 12-1/8 x 4	12	1
EWH-02	LOCKER ROOM 112B	QMARK	CWH	RECESSED	277	1	1	10-5/8 x 12-1/8 x 4	12	1
EWH-03	RR 212	QMARK	CWH	RECESSED	277	1	1	10-5/8 x 12-1/8 x 4	12	1
EWH-04	RR 213	QMARK	CWH	RECESSED	277	1	1	10-5/8 x 12-1/8 x 4	12	1
EWH-05	BREAK 201	QMARK	CWH	RECESSED	277	1	1.5	10-5/8 x 12-1/8 x 4	12	1

NOTES:
1. PROVIDE INTEGRAL THERMOSTAT.

DIFFUSER, REGISTER AND GRILLE SCHEDULE

SYMBOL	TYPE	FACE	FRAME	DAMPER	BASIS OF DESIGN	NOTES
CD-1	CEILING DIFFUSER	LOUVERED	LAY-IN	NO	PRICE SMD	1
SG-1	SUPPLY GRILLE	DOUBLE DEFL	1-1/4" BORDER	NO	PRICE 520	1
CRG-1	CEILING RETURN GRILLE	PERFORATED	LAY-IN	NO	PRICE PDDR	1
RG-1	RETURN GRILLE	FIXED BAR	1-1/4" BORDER	NO	PRICE 530	1
CEG-1	CEILING EXHAUST GRILLE	PERFORATED	LAY-IN	NO	PRICE PDDR	1
CEG-2	CEILING EXHAUST GRILLE	PERFORATED	SURFACE	YES	PRICE PDDR	1
EG-1	EXHAUST GRILLE	FIXED BAR	1-1/4" BORDER	NO	PRICE 530	1

NOTES:
1. REFER TO ARCHITECTURAL FOR FINISH. WHITE FINISH IF NOT OTHERWISE NOTED.

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REGISTERED PROFESSIONAL ENGINEER
65438PE
OREGON
MAY 10, 2002
ANDREW LASSE

EXPIRES: 12/31/26

△	DESCRIPTION	DATE:

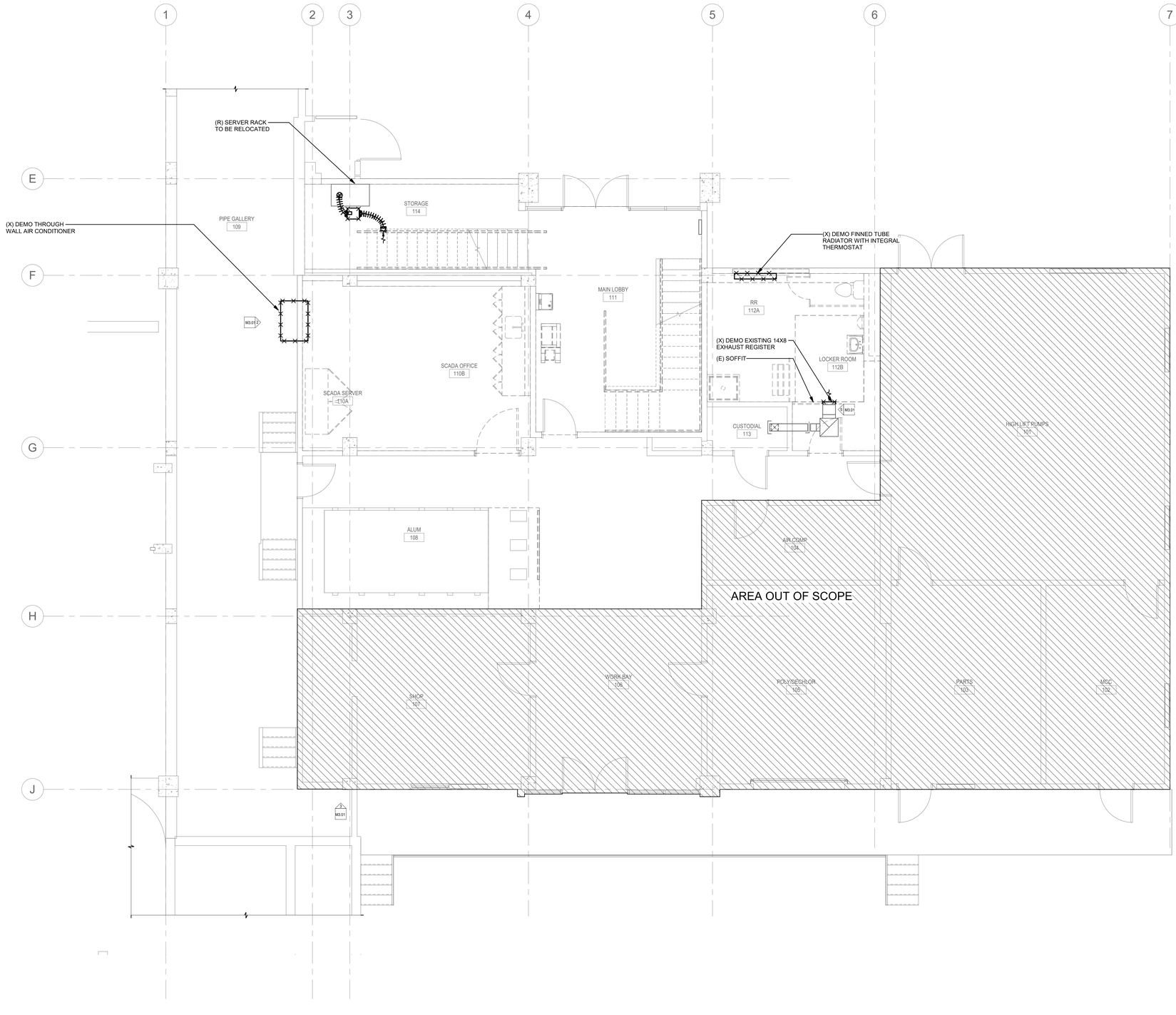
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SCHEDULES - MECHANICAL

M0.02

BID AND PERMIT SET

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1 DEMO FIRST FLOOR PLAN - MECHANICAL

0' 2' 4' 8'

1/4" = 1'-0"

ONE INCH EQUALS FULL SCALE

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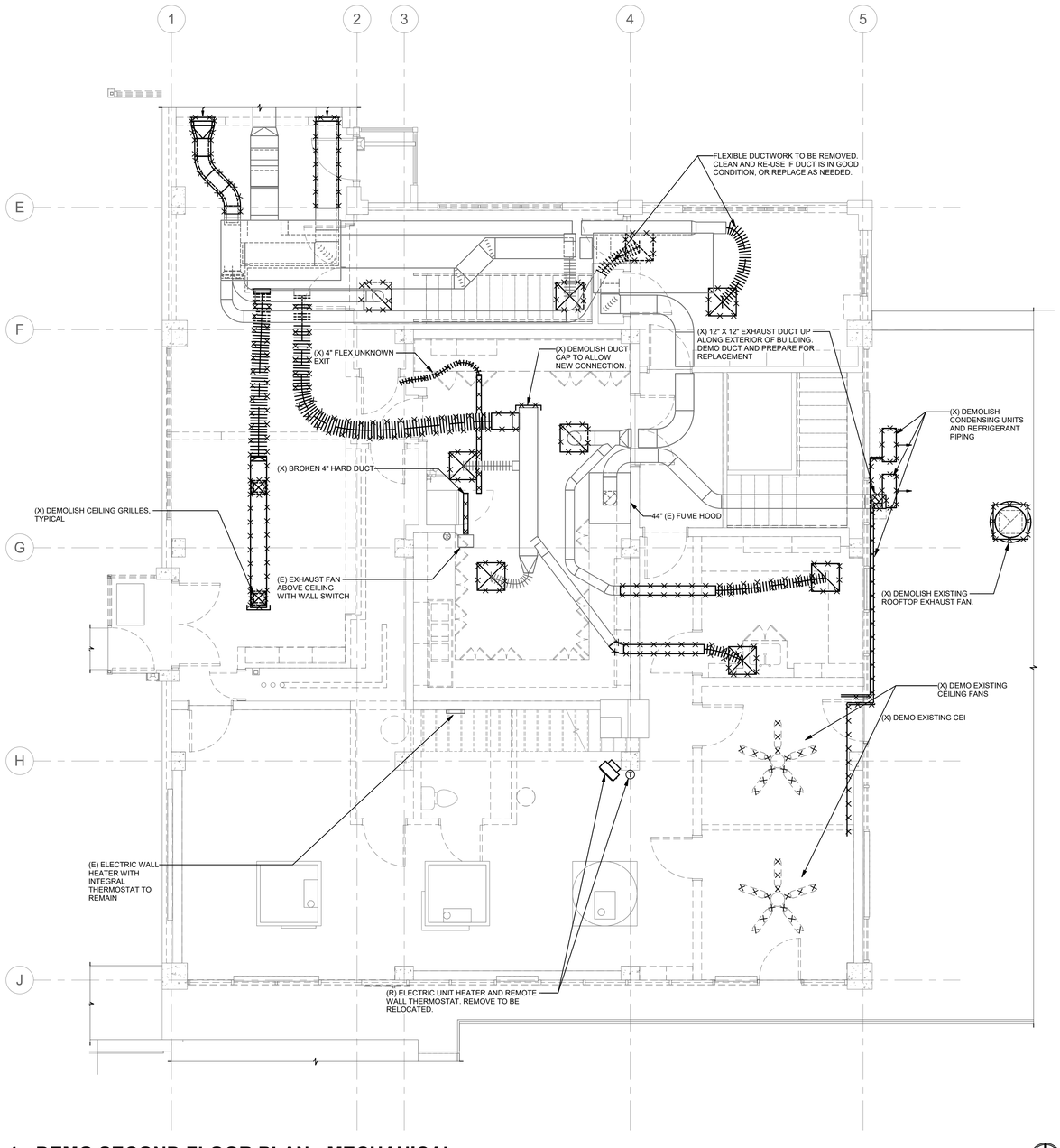
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DEMO FIRST FLOOR PLAN - MECHANICAL

MD2.10

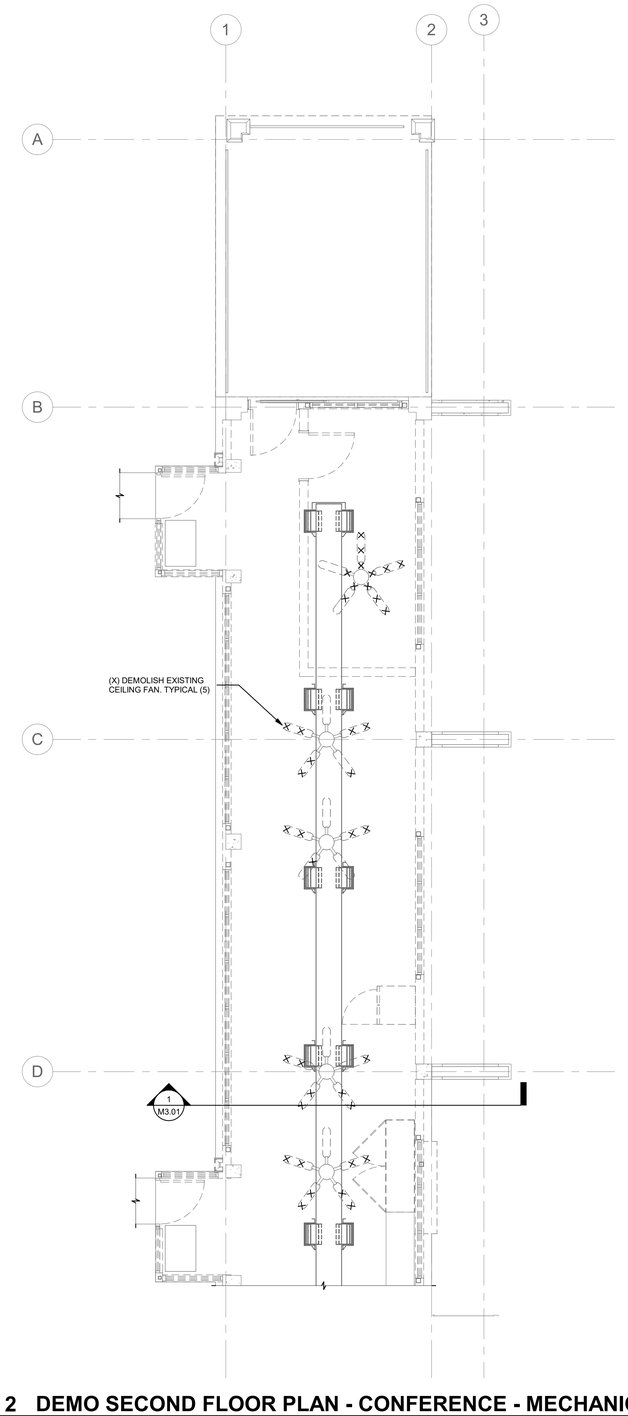
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1 DEMO SECOND FLOOR PLAN - MECHANICAL

0' 2' 4' 8'

1/4" = 1'-0"



2 DEMO SECOND FLOOR PLAN - CONFERENCE - MECHANICAL

0' 2' 4' 8'

1/4" = 1'-0"

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OREGON
JULY 10, 2005
ANDREW LASSE
EXPIRES: 12/31/26

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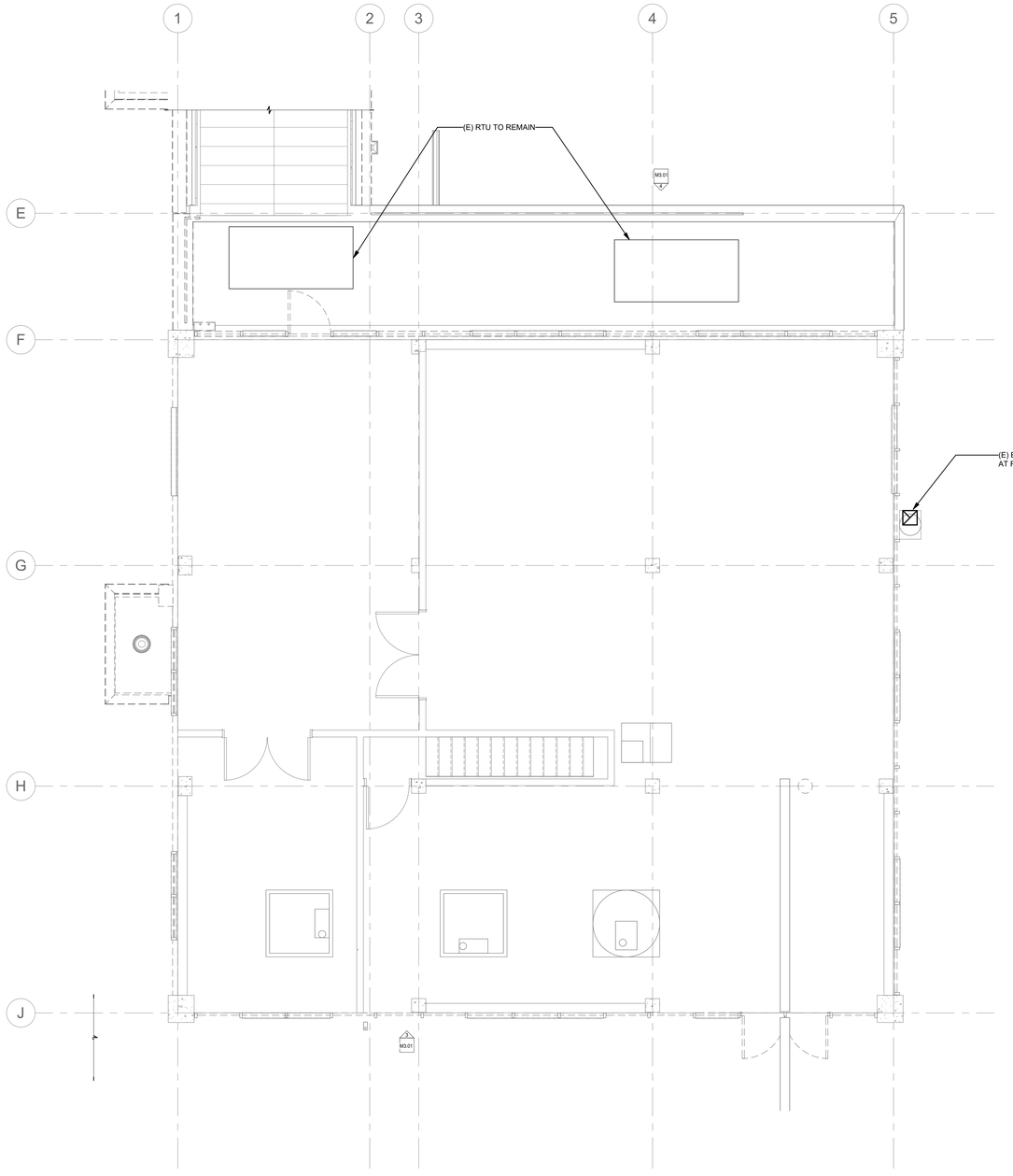
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DEMO SECOND FLOOR PLAN - MECHANICAL

MD2.20

BID AND PERMIT SET

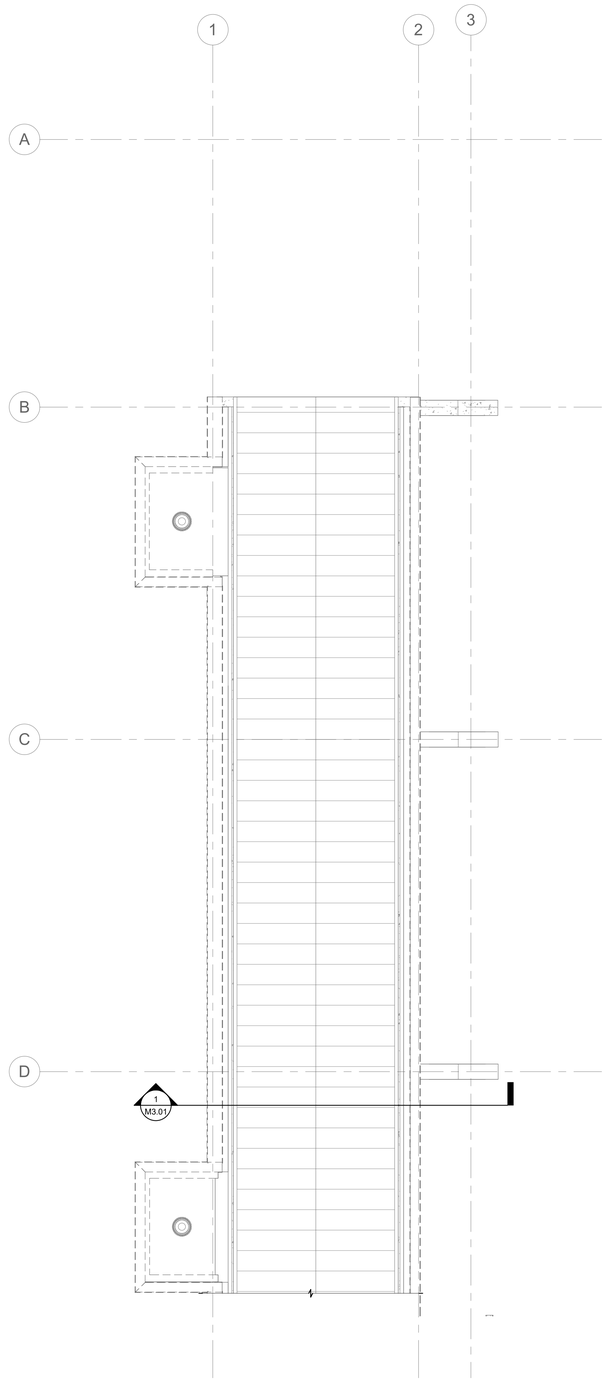
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1 DEMO THIRD FLOOR PLAN - MECHANICAL

0' 2' 4' 8'

1/4" = 1'-0"



2 ROOF PLAN - MECHANICAL

0' 2' 4' 8'

1/4" = 1'-0"

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DEMO THIRD FLR PLAN AND ROOF - MECHANICAL

MD2.30

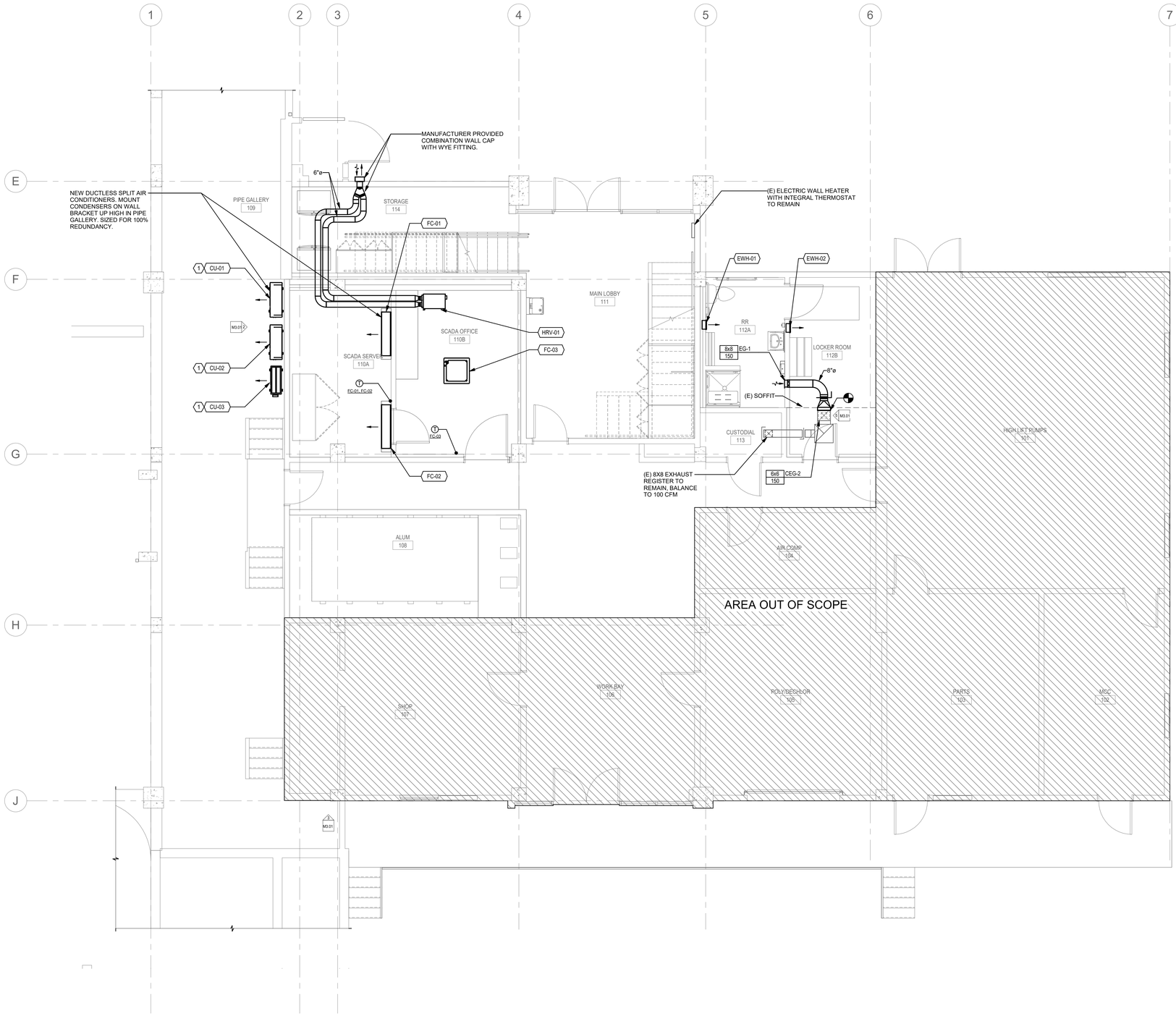
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SHEET KEYNOTES

1. MOUNT CONDENSING UNIT ON WALL RACK WITH BOTTOM OF RACK MINIMUM 7'-6" ABOVE GRADE. SEE DETAIL 3/M4.01.



1 FIRST FLOOR PLAN - MECHANICAL

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FIRST FLOOR PLAN - MECHANICAL

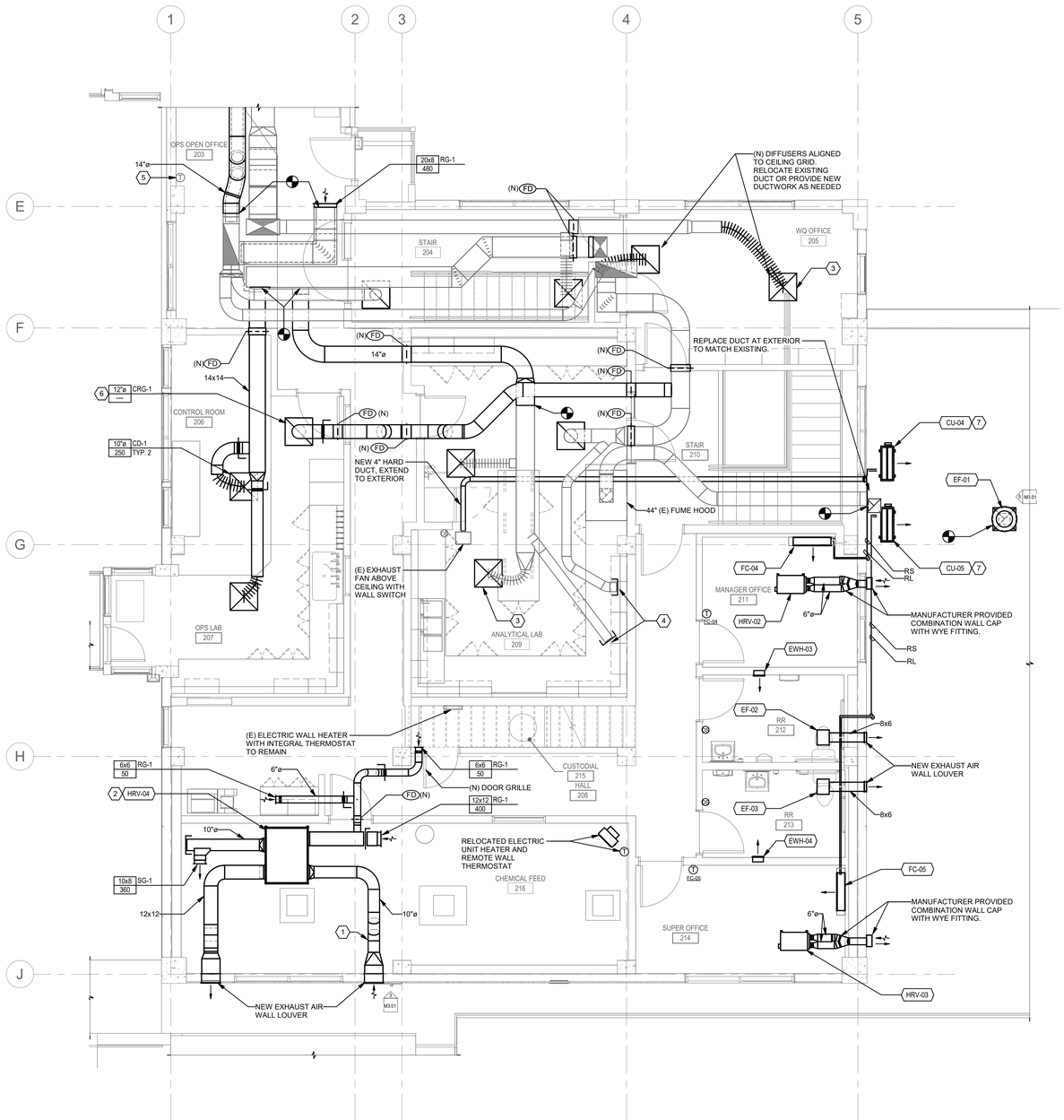
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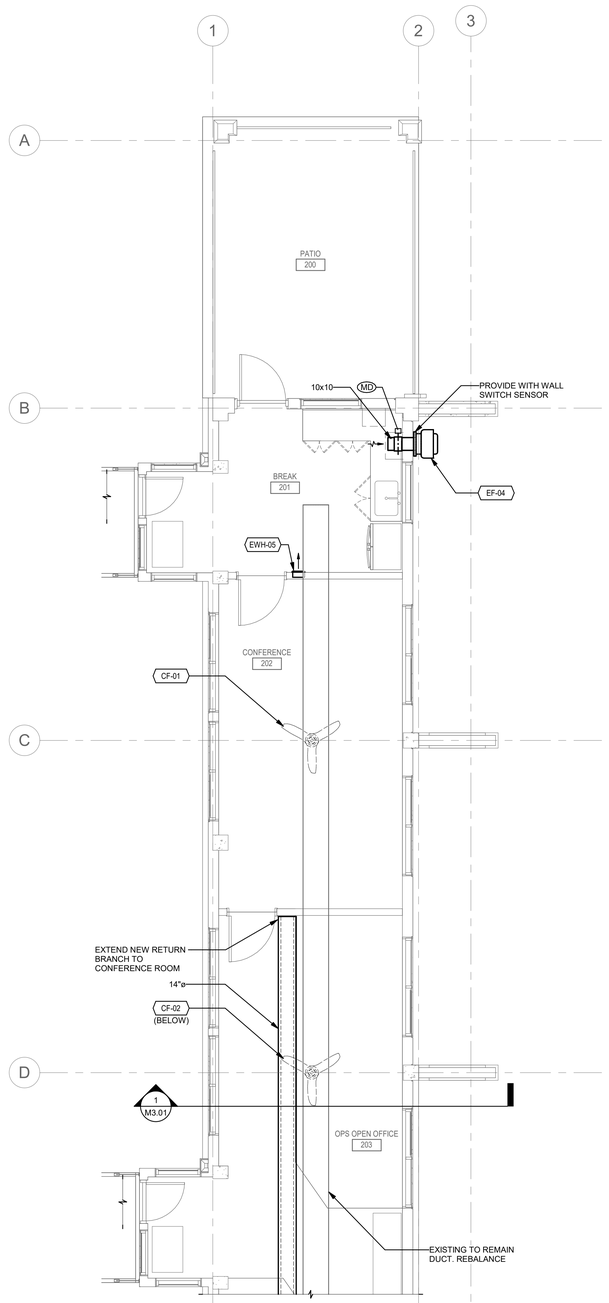
SHEET KEYNOTES

1. ROUTE DUCTWORK HIGH IN SPACE TO AVOID LIGHTING, AND OFFSET AS REQUIRED BELOW BEAM.
2. LOCATE HRV AWAY FROM LIGHTS TO MAINTAIN BOTTOM ACCESS CLEARANCE. COORDINATE WITH EXISTING HOPPER EQUIPMENT.
3. NEW CEILING GRILLES AND DIFFUSERS TO BE SIZED TO MATCH EXISTING. TYPICAL WHERE CONNECTING TO EXISTING DUCT. TYPES TO BE CD-1 AND CRG-1, SEE SCHEDULES FOR ADDITIONAL INFORMATION.
4. CAP AND SEAL EXISTING DUCT.
5. RELOCATED THERMOSTAT.
6. BALANCE RETURN AIR TO EQUAL EXISTING SUPPLY AIRFLOW IN THIS SPACE.
7. INSTALL ON EXISTING EQUIPMENT PADS ON ROOF.



1 SECOND FLOOR PLAN - MECHANICAL

0' 2' 4' 8'
1/4" = 1'-0"



2 SECOND FLOOR PLAN - CONFERENCE - MECHANICAL

0' 2' 4' 8'
1/4" = 1'-0"

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CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

INTERFACE ENGINEERING
PROJECT 2026-0405
CONTACT Troy Lowell
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

REGISTERED PROFESSIONAL ENGINEER
65438PE
OREGON
MAY 10, 2005
ANDREW LASSE
EXPIRES: 12/31/26

△	DESCRIPTION	DATE:

PROJECT NO.	P-3116-26
DESIGNED:	TL
REVIEWED:	AL
DATE:	08-07-26

SECOND FLOOR PLAN - MECHANICAL

M2.20

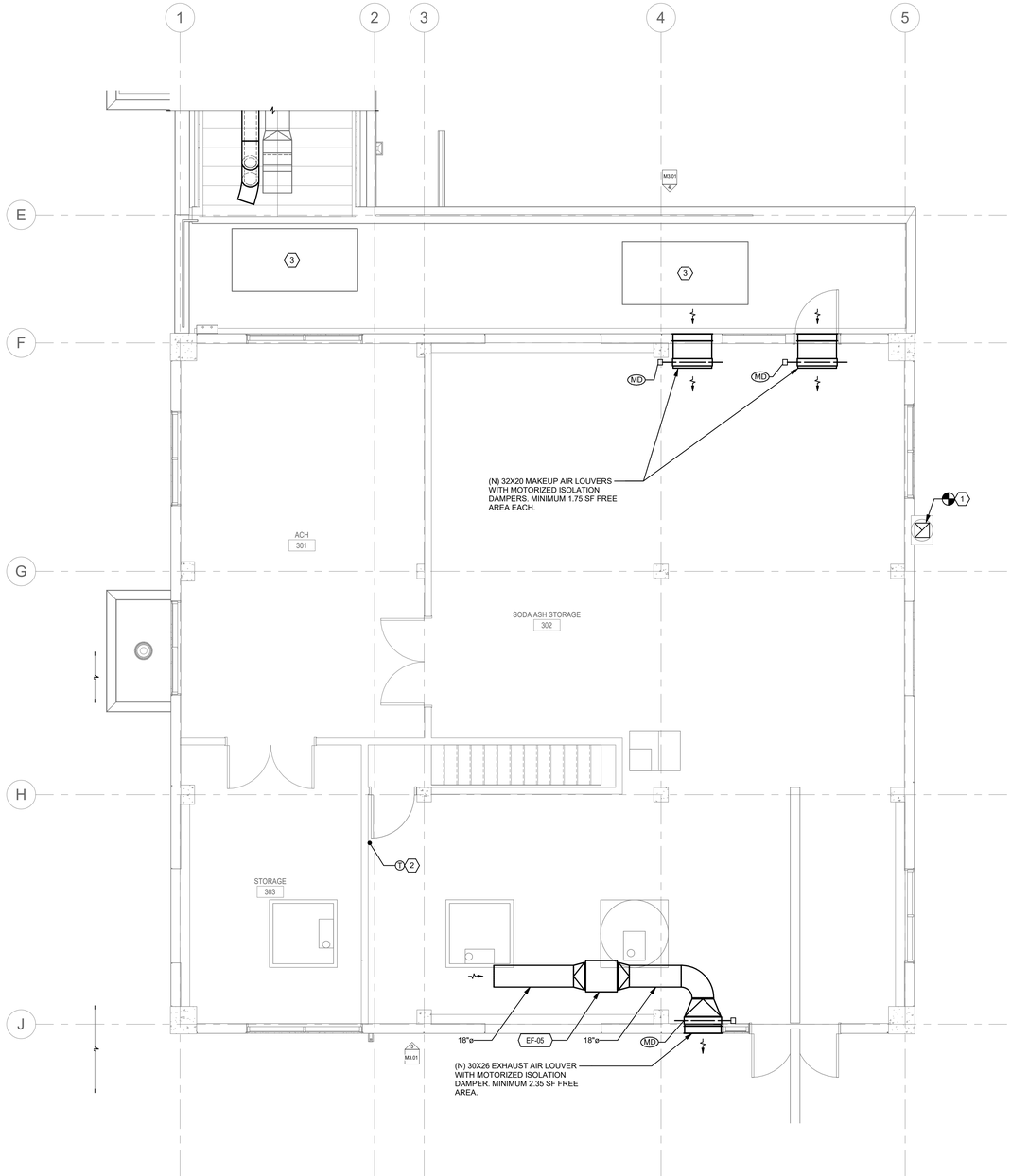
BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

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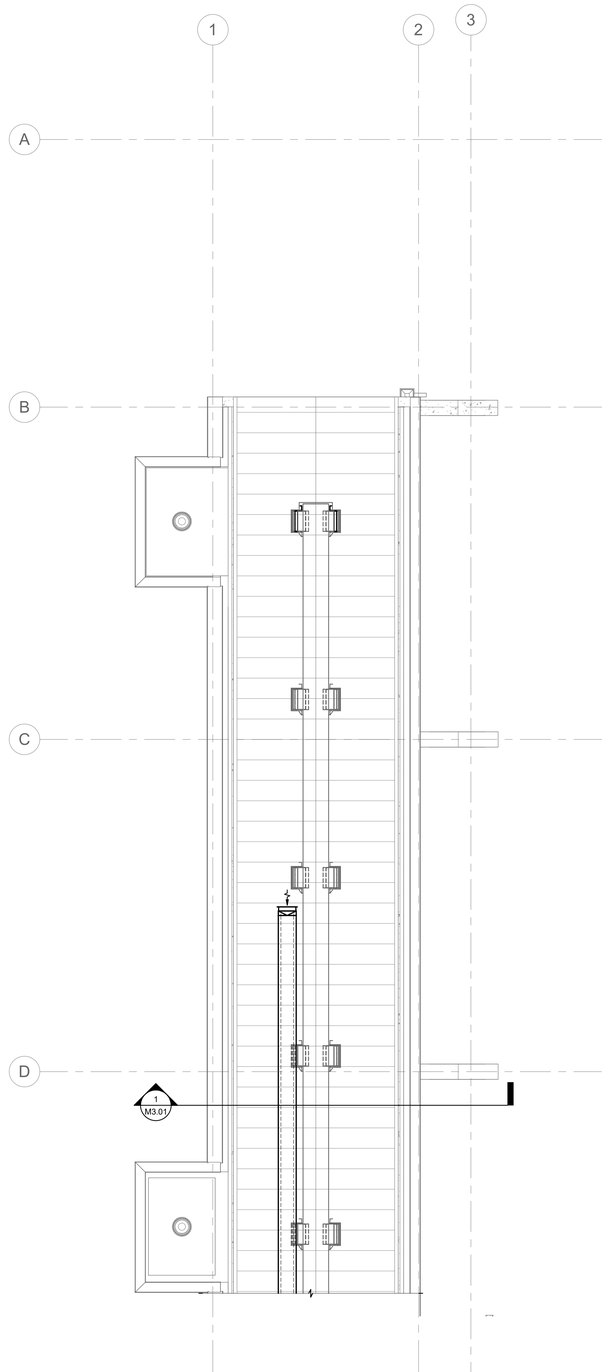
SHEET KEYNOTES

1. CONNECT NEW DUCT TO EXISTING EXHAUST FAN.
2. WALL MOUNTED THERMOSTAT TO CONTROL EF-05 OPERATION. PROVIDE STARTER WITH H-O-A SWITCH. IN AUTO POSITION, LINK THERMOSTAT RELAY TO STARTER TO OPERATE FAN AND ASSOCIATED MAKEUP AIR DAMPERS.
3. EXISTING ROOFTOP UNITS TO REMAIN. RE-BALANCE AIRFLOW INCLUDING MINIMUM OUTSIDE AIR.



1 THIRD FLOOR PLAN - MECHANICAL

0' 2' 4' 8'
1/4" = 1'-0"



2 ROOF PLAN - MECHANICAL

0' 2' 4' 8'
1/4" = 1'-0"

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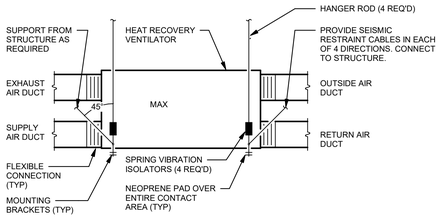
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THIRD FLOOR PLAN AND ROOF - MECHANICAL

M2.30

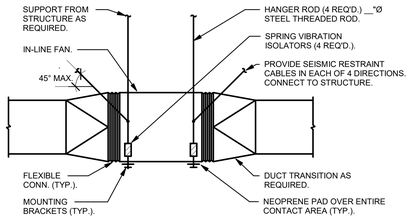
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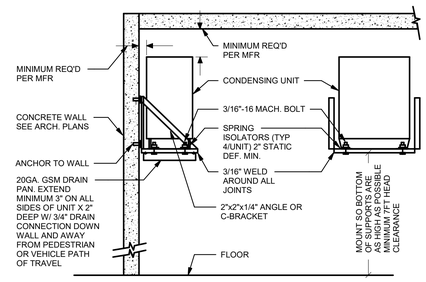
1 ENERGY RECOVERY VENTILATOR (INDOOR)

NO SCALE



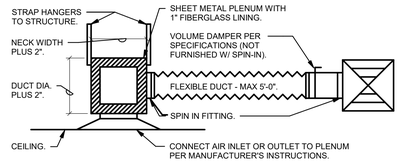
2 IN-LINE FAN

NO SCALE



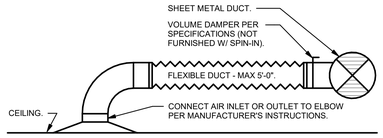
3 WALL HUNG CONDENSING UNIT

NO SCALE



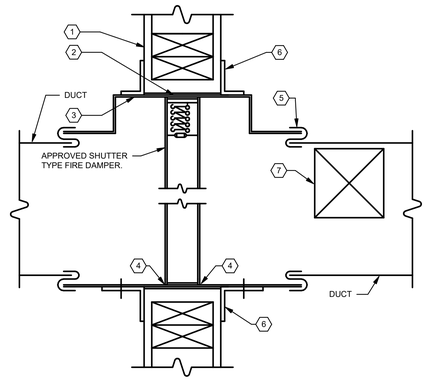
4 AIR INLET OR OUTLET SQUARE NECK

NO SCALE



5 AIR INLET OR OUTLET ROUND NECK

NO SCALE



6 FIRE DAMPER

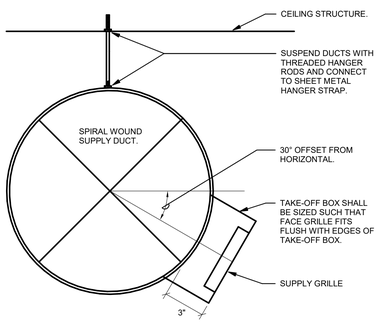
NO SCALE

DETAIL KEYNOTES

1. FIRE RATED PARTITION. COORDINATE WITH ARCHITECTURAL FOR FRAMING AND FIRE RATED LINING REQUIREMENTS.
2. COORDINATE PARTITION OPENING, 1/8" LARGER THAN FIRE DAMPER SLEEVE PER FOOT OF WIDTH OR HEIGHT.
3. PROVIDE SLEEVE 3" BEYOND EDGE OF PARTITION, EACH SIDE.
4. FIRE DAMPER FRAME ATTACHED TO SLEEVE BY MANUFACTURER.
5. "S" TYPE DUCT CONNECTION. DO NOT SCREW OR BOLT.
6. ANGLE ALL AROUND SLEEVE MINIMUM 1" OVERLAP WITH WALL FRAMING. ONE INCH FILLET WELDS 5" MAX. ON CENTER, OR 1/4" BOLTS 5" MAX. ON CENTER. DO NOT ATTACH ANGLES TO WALL. COORDINATE WITH DAMPER MANUFACTURER FOR APPROVED ANGLE SIZE AND GAUGE.
7. PROVIDE DUCT ACCESS DOOR. COORDINATE LOCATION AND TYPE OF ARCHITECTURAL SERVICE ACCESS WITH ARCHITECTURAL.

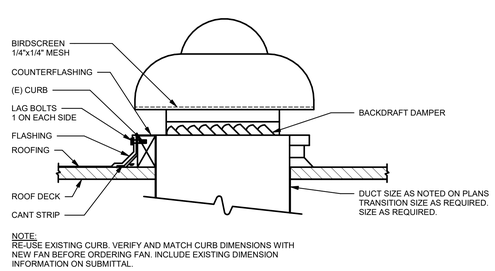
DETAIL GENERAL NOTES

DETAIL INDICATES REQUIREMENTS FOR STANDARD FRAME INSTALLATION. REFERENCE "SMACNA FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE" FOR OTHER CONFIGURATION REQUIREMENTS. COMPLY FULLY WITH ABOVE MENTIONED AND ALSO AHJ REQUIREMENTS IN ALL CASES.



7 SUPPLY DUCT TAKE-OFF

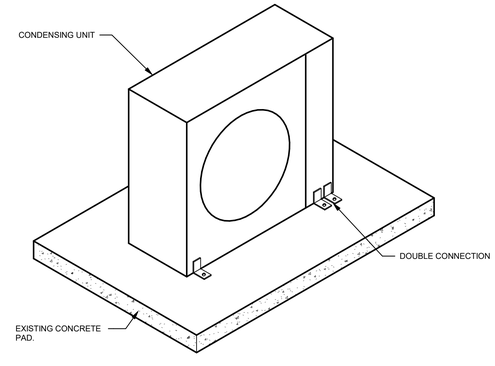
NO SCALE



NOTE:
RE-USE EXISTING CURB. VERIFY AND MATCH CURB DIMENSIONS WITH NEW FAN BEFORE ORDERING FAN. INCLUDE EXISTING DIMENSION INFORMATION ON SUBMITTAL.

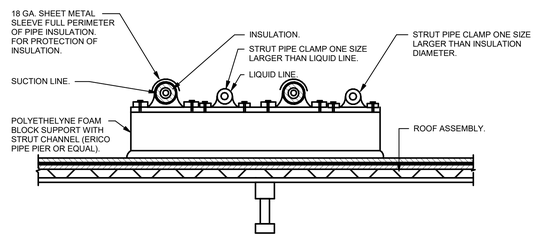
8 ROOF EXHAUST FAN

NO SCALE



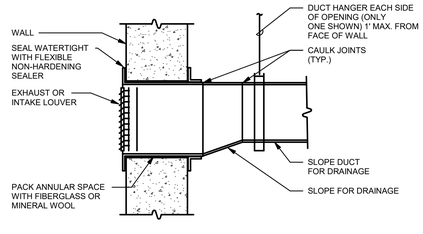
12 CONDENSING UNIT AT ROOF

NO SCALE



10 ROOFTOP REFRIGERATION PIPING SUPPORT

NO SCALE



9 LOUVER WALL PENETRATION

NO SCALE

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CRW #: 25-1199

Clackamas River Water

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REGISTERED PROFESSIONAL ENGINEER — 65438PE — OREGON — JULY 10, 2007 — ANDREW LASSE

EXPIRES: 12/31/26

△	DESCRIPTION	DATE:

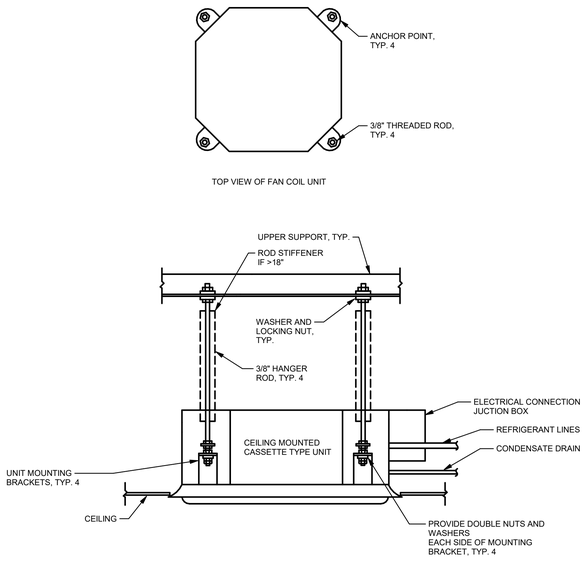
PROJECT NO.	P-3116-26
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DETAILS - MECHANICAL

M4.01

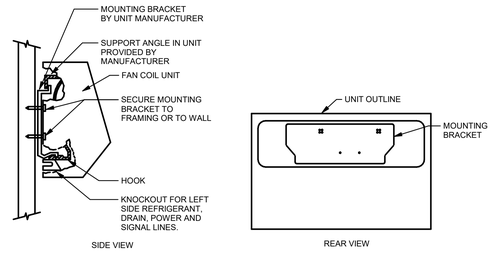
BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE
8/6/2026 4:54:50 PM Autodesk Docs://P3116 Clackamas River Water/P3116_MEPT_R26.rvt



1 CASSETTE TYPE FCU MOUNTING DETAIL

NO SCALE



NOTE:
1. FOR DRAIN CONNECTION, REFER TO PLUMBING DRAWINGS.

2 WALL MOUNTED DUCTLESS FAN COIL MOUNTING DETAIL

NO SCALE

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OREGON
JULY 10, 2026
ANDREW LASSE

EXPIRES: 12/31/26

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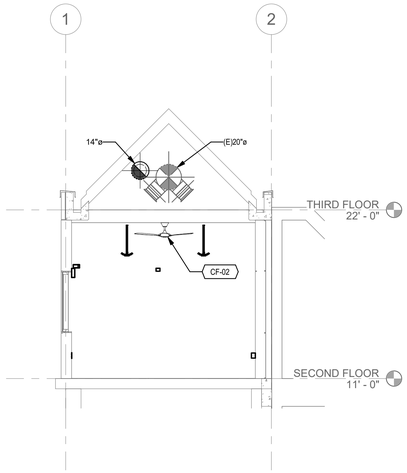
PROJECT NO.	P-3116-26
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DETAILS - MECHANICAL

M4.02

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE 8/6/2026 4:54:50 PM Autodesk Docs://P3116 Clackamas River Water/P3116_MEPT_R26.rvt



1 SECTION VIEW - OPS OPEN OFFICE

0' 2' 4' 8'

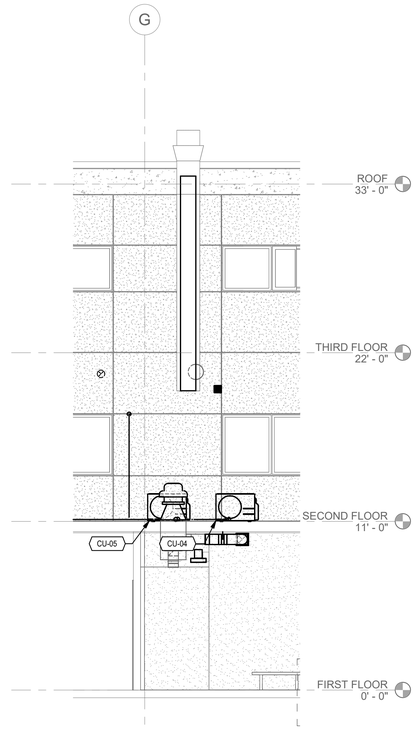
1/4" = 1'-0"



3 ELEVATION VIEW - LOOKING NORTH

0' 4' 8' 16'

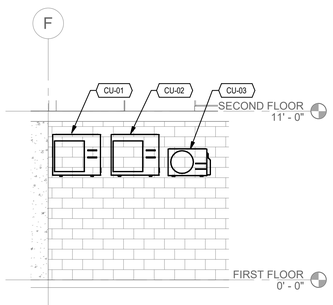
1/4" = 1'-0"



5 ELEVATION VIEW - LOOKING WEST

0' 4' 8' 16'

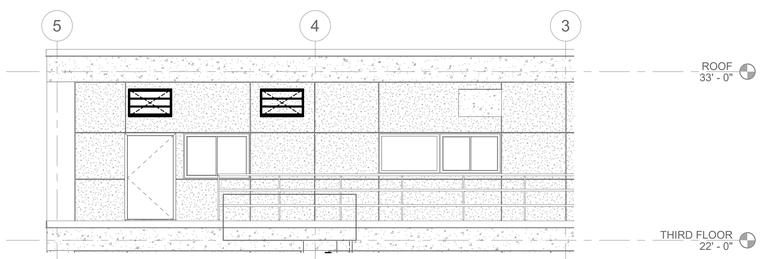
1/4" = 1'-0"



2 ELEVATION VIEW - PIPE GALLERY

0' 4' 8' 16'

1/4" = 1'-0"



4 PARTIAL ELEVATION VIEW - LOOKING SOUTH

0' 4' 8' 16'

1/4" = 1'-0"

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SECTIONS & ELEVATIONS - MECHANICAL

M3.01

BID AND PERMIT SET

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ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
A	AMPERES, AMBER
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AVAILABLE INTERRUPTING CAPACITY
BAS	BUILDING AUTOMATION SYSTEM
CA	CABLE
CAT	CATEGORY
CLG	CEILING
C	CONDUIT, CLOSE, CONTROL
COORD	COORDINATE
CU	COPPER
dB	DECIBEL
(X)	DEMOLISH
DTL	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DWG	DRAWING
EA	EACH
EMT	ELECTRICAL METALLIC TUBING
EL	ELEVATION
E	EMERGENCY
EF	EXHAUST FAN
(R)	EXISTING DEVICE TO BE RELOCATED
(E)	EXISTING TO REMAIN
FF	FINISH FLOOR
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FMC	FLEXIBLE METAL CONDUIT
FT	FOOT, FEET
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HH	HANDHOLE
HT	HEIGHT
ID	IDENTIFICATION
IN	INCH, INCHES
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IMC	INTERMEDIATE METAL CONDUIT
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LV	LOW VOLTAGE
MOCP	MAXIMUM OVERCURRENT PROTECTION
mA	MILLIAMPERES
MIN	MINIMUM
MCA	MINIMUM CIRCUIT AMPS
MISC	MISCELLANEOUS
MCC	MOTOR CONTROL CENTER
MT, MTD	MOUNT, MOUNTED
NEC	NATIONAL ELECTRIC CODE
NESC	NATIONAL ELECTRIC SAFETY CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N	NEUTRAL
(N)	NEW
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PNL	PANEL
PH	PHASE
PVC	POLY-VINYL-CHLORIDE
PWR	POWER
QTY	QUANTITY
REF	REFERENCE
(RR)	REMOVE EXISTING DEVICE AND REINSTALL
RFI	REQUEST FOR INFORMATION
REQD	REQUIRED
RMC	RIGID METAL CONDUIT
RM	ROOM
SHT	SHEET
SIM	SIMILAR
STD	STANDARD
SPD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
TBD	TO BE DETERMINED
XFMR	TRANSFORMER
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
V	VOLTS, VOLTAGE
WP	WEATHERPROOF
WG	WIRE GUARD
W/	WITH
W/O	WITHOUT

Connections / Equipment

- COMBINATION ADJUSTABLE FREQUENCY DRIVE WITH SAFETY DISCONNECT SWITCH. FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- COMBINATION MOTOR STARTER/FUSED DISCONNECT SWITCH
- ELECTRIFIED FURNITURE - POWER FEED WITH FLEX CONNECTION
- HEAVY DUTY FUSED DISCONNECT SWITCH
- MOTOR CONNECTION
- NON-FUSED DISCONNECT SWITCH
- TRANSFORMER
- FIRE SMOKE DAMPER
- SMOKE DAMPER
- CEILING MOUNTED JUNCTION BOX
- FLOOR MOUNTED JUNCTION BOX
- WALL-MOUNTED JUNCTION BOX

Fire Alarm

- FACP — FIRE ALARM CONTROL PANEL

General

- X / X — DETAIL NUMBER AND SHEET LOCATION
- XX.X — EQUIPMENT IDENTIFICATION
- 1 — KEYED NOTE
- DEMOLISH
- EXISTING WORK
- NEW WORK

Lighting

- EMERGENCY LUMINAIRE WITH BATTERY PACK
- EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- PENDANT MOUNTED LUMINAIRE
- RECESSED 2' X 2' LUMINAIRE
- RECESSED 2' X 4' LUMINAIRE
- RECESSED LINEAR LUMINAIRE, WIDTH AND LENGTH AS NOTED
- RECESSED LUMINAIRE
- SURFACE MOUNTED OR PENDANT MOUNTED RECTANGULAR LUMINAIRE
- SURFACE OR PENDANT MOUNTED 1' X 4' LUMINAIRE
- SURFACE MOUNTED LUMINAIRE
- SURFACE MOUNTED OR PENDANT MOUNTED LINEAR LUMINAIRE
- WALL MOUNTED LINEAR LUMINAIRE
- WALL MOUNTED LUMINAIRE

Miscellaneous

#10 — B-27,29,31. — BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.

- BRANCH PANEL
- CIRCUIT BREAKER
- DRY TYPE TRANSFORMER
- FLUSH WALL MOUNTED BRANCH PANEL
- GB — GROUND BAR
- MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
- METER - END USE
  1 = POWER QUALITY METER
  2 = ENERGY METER

Raceways

- CONDUIT CONCEALED IN WALL OR CEILING SPACE
- CONDUIT ROUTED BELOW FLOOR / GRADE
- CONDUIT ELLED DOWN
- CONDUIT ELLED UP
- CONDUIT/WIRING CONTINUATION
- CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING
- FLEXIBLE CONDUIT

Switches and Receptacles

- DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
  A = ABOVE COUNTER
  B = CLOCK HANGER
  C = FLUSH CEILING MOUNTED
  E = EMERGENCY
  F = ARC FAULT PROTECTED BY BREAKER IN PANEL
  G = GROUND FAULT CIRCUIT INTERRUPTER
  H = HOSPITAL GRADE
  K = CHILD RESISTANT COVER
  L = ISOLATED GROUND
  P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH
  R1 = HALF SWITCHED BY OCCUPANCY SENSOR RELAY
  R2 = FULLY SWITCHED BY OCCUPANCY SENSOR RELAY
  S = SPLIT WIRED
  T = TAMPER RESISTANT SHUTTERED RECEPTACLE
  U = USB PORT(S)
  W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE
- DUPLEX RECEPTACLE, FLUSH FLOOR
- DOUBLE DUPLEX RECEPTACLE, FLUSH FLOOR
- DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
- EQUIPMENT ELECTRICAL CONNECTION
- SPECIAL PURPOSE RECEPTACLE. LETTER CODE DENOTES RECEPTACLE CONFIGURATION
  LX-XXR = NEMA CONFIGURATION TWIST-LOCK RECEPTACLE
  X-XXR = NEMA CONFIGURATION STRAIGHT BLADE RECEPTACLE
  P = PENDANT MOUNT WITH CORD GRIPS. VERIFY PENDANT LENGTH
  X = COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED
- CEILING MOUNTED OCCUPANCY SENSOR
  P = PASSIVE INFRARED
  D = DUAL TECHNOLOGY
  U = ULTRASONIC, 360 DEG RANGE
  H = ULTRASONIC, HALLWAY PATTERN
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- WALL MOUNTED OCCUPANCY SENSOR
  P = PASSIVE INFRARED
  D = DUAL TECHNOLOGY
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- WALL MOUNTED OCCUPANCY SENSOR/SWITCH
  S = PASSIVE INFRARED WITH INTEGRAL "OFF" SWITCH
  T = DUAL RELAY PASSIVE INFRARED WITH TWO INTEGRAL "OFF" SWITCHES
  D = PASSIVE INFRARED WITH INTEGRAL DIMMER TO OFF.
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- MULTIPLE CHANNEL SURFACE METAL RECEPTACLE RACEWAY WITH LOW VOLTAGE DIVIDERS, LENGTH AND RECEPTACLES AS INDICATED
- PHOTO ELECTRIC SWITCH
  D = CONTINUOUS DIMMING PHOTOCELL
  S = SWITCHED PHOTOCELL
- $ — SINGLE POLE SWITCH
  2 = DOUBLE POLE SWITCH
  3 = THREE-WAY SWITCH
  4 = FOUR-WAY SWITCH
  a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION
  D = DIMMER
  F = FAN SPEED CONTROL
  K = KEY OPERATED SWITCH
  L = LIGHTED HANDLE
  M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD
  P = SWITCH WITH PILOT LIGHT
  S = SENTRY SWITCH
  T = INTERVAL TIMER
  W = WEATHERPROOF SWITCH
  V = LOW VOLTAGE SWITCH

GENERAL ELECTRICAL NOTES

A. DO NOT COMMENCE INSTALLATION OF ELECTRICAL SYSTEMS AND EQUIPMENT WITHOUT RELATED SHOP DRAWING APPROVALS.

B. ELECTRICAL CIRCUITS SHALL BE INTERRUPTED ONLY WITH PRIOR WRITTEN CONSENT. SUCH INTERRUPTIONS SHALL BE PRECEDED BY ALL POSSIBLE PREPARATIONS BY THE CONTRACTOR WHICH ARE NECESSARY TO KEEP THE ELECTRICAL CIRCUITS OFF FOR A MINIMUM PERIOD IN AN EXPEDITIOUS MANNER PURSUANT WITH GOOD WORKMANSHIP. THIS INCLUDES CIRCUIT TRACING TO IDENTIFY THE ELECTRICAL LOAD BEING SERVED AND THE ORIGIN OF THE CIRCUIT.

C. COORDINATE WITH OWNER SO THAT WORK CAN BE SCHEDULED NOT TO INTERRUPT OPERATIONS, NORMAL ACTIVITIES, BUILDING ACCESS, ACCESS TO DIFFERENT AREAS. THE OWNER WILL COOPERATE TO THE BEST OF THEIR ABILITY TO ASSIST IN A COORDINATED SCHEDULE, BUT WILL REMAIN THE FINAL AUTHORITY AS TO TIME OF WORK PERMITTED.

D. COORDINATE THE EXACT LOCATION OF EXISTING UTILITIES AND EQUIPMENT PRIOR TO COMMENCEMENT OF WORK, COMPENSATE THE OWNER FOR DAMAGES CAUSED BY THE FAILURE TO LOCATE AND PRESERVE UTILITIES. REPLACE DAMAGED ITEMS WITH NEW MATERIAL TO MATCH EXISTING.

E. REMOVE EXISTING LUMINAIRES, SWITCHES, RECEPTACLES, AND OTHER ELECTRICAL EQUIPMENT AND DEVICES AND ASSOCIATED WIRING FROM WALLS, CEILINGS, FLOORS, AND OTHER SURFACES SCHEDULED FOR REMODELING, RELOCATION, OR DEMOLITION UNLESS SHOWN AS RETAINED OR RELOCATED ON DRAWINGS.

F. MAINTAIN ELECTRICAL CONTINUITY OF EXISTING SYSTEMS. REMOVE OR RELOCATE ELECTRICAL BOXES, CONDUIT, WIRING, EQUIPMENT, LUMINAIRES, AND THE LIKE, AS REQUIRED IN REMOVED OR REMODELED AREAS IN THE EXISTING CONSTRUCTION AFFECTED BY THIS WORK.

G. REMOVE AND RESTORE WIRING WHICH SERVES USABLE EXISTING OUTLETS CLEAR OF THE CONSTRUCTION OR DEMOLITION.

H. IF EXISTING JUNCTION BOXES WILL BE MADE INACCESSIBLE, OR IF ABANDONED OUTLETS SERVE AS FEED THROUGH BOXES FOR OTHER EXISTING ELECTRICAL EQUIPMENT WHICH IS BEING RETAINED, PROVIDE NEW CONDUIT AND WIRE TO BYPASS THE ABANDONED OUTLETS.

I. IF EXISTING CONDUITS PASS THROUGH PARTITIONS OR CEILING WHICH ARE BEING REMOVED OR REMODELED, PROVIDE NEW CONDUIT AND WIRE TO REROUTE CLEAR OF THE CONSTRUCTION OR DEMOLITION AND MAINTAIN SERVICE TO THE EXISTING LOAD.

J. CONCEALED CONDUIT LOCATED IN CONCRETE WALLS OR HARDBOARD CEILING SPACES MAY BE ABANDONED IN PLACE. REMOVE CONDUCTORS AND TAG ABANDONED CONDUITS WITH CORRESPONDING SYSTEM AND TERMINATION POINT. CUT AND CAP ABANDONED CONDUIT. DO NOT EXTEND STUBS ABOVE FINISHED FLOOR.

K. EXTEND CIRCUITING AND DEVICES IN EXISTING WALLS TO BE FURRED OUT.

L. PROVIDE TEMPORARY SUPPORT FOR ELECTRICAL SYSTEMS THAT REMAIN IN PLACE.

M. VERIFY EXACT LOCATION AND NUMBER OF EXISTING ELECTRICAL OUTLETS AND LUMINAIRES IN THE FIELD. LOCATIONS OF ITEMS SHOWN ON DRAWINGS AS EXISTING ARE PARTIALLY BASED ON RECORD AND OTHER DRAWINGS WHICH MAY CONTAIN ERRORS. VERIFY THE ACCURACY OF THE INFORMATION SHOWN PRIOR TO BIDDING AND PROVIDE SUCH LABOR AND MATERIAL AS IS NECESSARY TO ACCOMPLISH THE INTENT OF THE CONTRACT DOCUMENTS.

N. REMOVE ABANDONED WIRING TO LEAVE SITE CLEAN.

O. PROVIDE BLANK COVER PLATE FOR ABANDONED FLUSH OUTLETS.

P. EXISTING LIGHTING WHICH IS TO REMAIN OR BE RELOCATED IS TO BE RELAMPED, REBALLASTED, AND CLEANED. LEAVE ALL LUMINAIRES IN PROPER WORKING ORDER. REPLACE DAMAGED OR BROKEN LENS AND/OR COMPONENTS.

Q. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

R. WHERE DRAWINGS INDICATE EXISTING ELECTRICAL EQUIPMENT OR DEVICES TO BE RELOCATED AND/OR REUSED, REFURBISH THEM. THOROUGHLY CLEAN SUCH ITEMS. NOTIFY ARCHITECT OF ANY DEFECTS IN SUCH INSTALLATIONS. REPAIR ANY DAMAGE CAUSED BY DEMOLITION OR CONSTRUCTION PERFORMED UNDER THIS CONTRACT.

S. PROVIDE UPDATED PANEL SCHEDULES AND DIRECTORIES THAT IDENTIFY EXISTING CIRCUITS AND NUMBER OF SPARE CIRCUITS AVAILABLE UPON COMPLETION OF DEMOLITION WORK.

T. OFFER REMOVED LUMINAIRES, WIRING DEVICES, PANELBOARDS AND EQUIPMENT TO THE OWNER. IF OWNER CHOOSES TO RETAIN THESE ITEMS, RETURN SUCH ITEMS TO OWNER. CAREFULLY REMOVE AND DISPOSE OF ITEMS REJECTED BY OWNER FROM PROJECT SITE AND IN A LEGAL MANNER.

U. RECONNECT EXISTING LUMINAIRES NOT SHOWN ON DRAWINGS AND AFFECTED DUE TO DEMOLITION TO NEAREST AVAILABLE EXISTING LIGHTING CIRCUIT ABLE TO TAKE THE ADDITIONAL LOAD.

V. PROVIDE SUITABLE ANCHORAGE AND SUPPORT FOR ELECTRICAL EQUIPMENT IN RATED WALLS, SLABS AND CEILINGS. MOUNT DEVICES AND RACEWAYS IN ACCORDANCE WITH ESTABLISHED CODES AND SPECIFICATIONS.

W. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

X. DRAWINGS AND SPECIFICATIONS COMPLIMENT EACH OTHER. REQUIREMENT BY EITHER INFERS REQUIREMENT BY BOTH.

Y. CONNECT EQUIPMENT AND DEVICES FURNISHED UNDER OTHER DIVISIONS OF THIS CONTRACT, BY OWNER OR BY OTHER CONTRACTS.

Z. UNLESS OTHERWISE NOTED, PROVIDE CONCEALED AND FLUSH MOUNTED INSTALLATION OF DEVICES AND EQUIPMENT IN AREAS.

AA. PROVIDE SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN 120 VOLT, MULTI-WIRE CIRCUITS.

BB. FOR 120 VOLT, 20 AMP CIRCUITS, WHERE CIRCUIT DISTANCE FROM PANELBOARD TO FARTHEST DEVICE/FIXTURE EXCEEDS 75 FEET, PROVIDE #10 SIZE CONDUCTOR.

CC. RUN ELECTRICAL CONDUIT CONCEALED AND PARALLEL TO BUILDING LINES. VERIFY WITH ARCHITECT.

DD. RECEPTACLE OUTLETS SHALL COMPLY WITH OESC SECTION 210.7.

EE. LIGHTS, SWITCHES AND CONTROL MECHANISMS SHALL COMPLY WITH OESC SECTION 404.

FF. BRACE ELECTRICAL EQUIPMENT TO RESIST A HORIZONTAL FORCE THAT ACT IN ANY DIRECTION. COMPLY WITH OSSC REQUIREMENTS.

GG. INSTALL COMPLETE SYSTEM OF CONDUCTORS IN RACEWAY SYSTEM THROUGHOUT BUILDING FOR FEEDERS, BRANCH CIRCUITS, ETC.

HH. PROVIDE UNSWITCHED HOT CONDUCTOR TO EMERGENCY LUMINAIRES AND EXIT SIGNS.

JJ. OCCUPANCY SENSOR NOTES:
1. WALL SENSORS
   a. SENSOR MUST HAVE CLEAR "VIEW" OF OCCUPANTS. WHERE SENSOR WILL BE BLOCKED, SUBSTITUTE WITH SMALL-ROOM CEILING SENSOR.
2. SEE MANUFACTURER'S SPECIFICATION REGARDING PLACING SENSORS AWAY FROM STRONG AIR-FLOW. INDICATE PRECISE LOCATION OF EACH CEILING SENSOR WHERE DRAWINGS INDICATE AIR SUPPLIES.
3. IN INDIVIDUAL ROOMS WITH CEILING SENSORS AND DUAL-LEVEL LIGHTING, ASSUME TWO TOGGLE SWITCH OVERRIDES PER ROOM.
4. PRIOR TO INSTALLATION, RECEIVE FACTORY-TRAINING AND LAYOUT-ASSISTANCE. IF LOCAL AGENT CHANGES LIGHTING DRAWINGS, CONTACT FACTORY REPRESENTATIVE.

KK. PROVIDE DEFERRED APPROVAL AND DESIGN BUILD FOR ANY REQUIRED MODIFICATION TO THE EXISTING FIRE ALARM SYSTEM. [FIRE ALARM DEVICES SHOWN ON PLANS ARE FOR COORDINATION PURPOSES ONLY.] SUBMIT COMPLETE DRAWINGS TO THE FIRE MARSHAL FOR APPROVAL AND ASSUME FULL RESPONSIBILITY OF THE SYSTEM, DEVICE QUANTITY AND LOCATION, WIRING, PROGRAMMING AND CONTROL PANELS. COORDINATE FINAL DEVICE LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN.

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CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
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WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

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△	DESCRIPTION	DATE:

PROJECT NO.	P-3116-26
DESIGNED:	CN
REVIEWED:	MO
DATE:	08-07-26

SYMBOL LIST AND GENERAL NOTES - ELECTRICAL

E0.01

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

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LIGHTING CONTROL MATRIX: SPACE BY SPACE

ROOM DESCRIPTIONS	TYPES OF CONTROL	OCCUPANCY SENSOR TYPE	CONTROL FUNCTIONS	OVERRIDES	COMMENTS
LOCKER ROOM, FITNESS	OCCUPANCY SENSOR, WALL DIMMING SWITCH	DUAL TECHNOLOGY	AUTO ON TO 50%, MANUAL DIMMING AT WALL SWITCH, AUTO OFF AFTER 20 MINUTES OF UNOCCUPANCY	SWITCH OFF	
SMALL RESTROOM	COMBINATION TYPE SENSOR / SWITCH	DUAL TECHNOLOGY	AUTO ON/OFF	SWITCH OFF	
SHOWER RESTROOM	OCCUPANCY SENSOR, WALL SWITCH	DUAL TECHNOLOGY	AUTO ON/OFF	SWITCH OFF	
SMALL STORAGE ROOM, CUSTODIAL ROOM	COMBINATION TYPE SENSOR / SWITCH	DUAL TECHNOLOGY	MANUAL ON, AUTO OFF AFTER 20 MINUTES OF UNOCCUPANCY	SWITCH OFF	
CHEMICAL FEED	WALL SWITCH	NONE	MANUAL ON/OFF WALL SWITCH		
HALLWAYS, STAIR	OCCUPANCY SENSOR, KEY WALL SWITCH	DUAL TECHNOLOGY	AUTO ON UPON OCCUPANCY TO 100%, AUTO DIM TO 50% AFTER 20 MINUTES OF VACANCY.		
BREAK ROOM, PRIVATE OFFICE, CONFERENCE	OCCUPANCY SENSOR, WALL DIMMING SWITCH	DUAL TECHNOLOGY	MANUAL ON, MANUAL DIMMING AT WALL SWITCH, AUTO OFF AFTER 20 MINUTES OF VACANCY.	SWITCH OFF	EXCEPTIONS 1 AND 3 APPLIED FOR CONTROLLED RECEPTACLE 8.4.2.
OPEN OFFICE	OCCUPANCY SENSOR, WALL DIMMING SWITCH	DUAL TECHNOLOGY	AUTO ON TO 50%, MANUAL DIMMING AT WALL SWITCH, AUTO OFF AFTER 20 MINUTES OF VACANCY.	SWITCH OFF	EXCEPTIONS 1 AND 3 APPLIED FOR CONTROLLED RECEPTACLE 8.4.2.
LAB OFFICE, ANALYTICAL LAB	OCCUPANCY SENSOR, WALL DIMMING SWITCHES	DUAL TECHNOLOGY	AUTO ON TO 50%, MANUAL DIMMING AT WALL SWITCH, AUTO OFF AFTER 20 MINUTES OF VACANCY.		
CONTROL ROOM	WALL DIMMING SWITCHES	NA	MANUAL DIMMING AT WALL SWITCH.		LIGHTING REQUIRED FOR 24/7 CONTINUOUS OPERATION, EXCEPTION 1 FOR 9.4.1.1(h). EXCEPTION 1 APPLIED FOR CONTROLLED RECEPTACLES 8.4.2.
SCADA ROOM	LINE VOLTAGE SWITCH	NONE	MANUAL ON/OFF WALL SWITCH		
EXTERIOR SITE, PARKING	(E)PHOTOCELL	NONE	AUTO ON, AUTO OFF WHEN SUFFICIENT DAYLIGHT IS AVAILABLE.	SWITCH OFF	
EXTERIOR FLOOD LIGHTS	(E)PHOTOCELL	(E)MANUAL SWITCHES	AUTO ON, AUTO OFF WHEN SUFFICIENT DAYLIGHT IS AVAILABLE.	SWITCH ON/OFF	

GENERAL NOTES:

A. BASIS OF DESIGN: DIGITAL WIRED LIGHTING CONTROL SYSTEM.

B. REFERENCE DETAILS 1/E7.01 FOR ADDITIONAL INFORMATION.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	HOUSING	SHIELDING	MOUNTING	FINISH	UL/IP RATING	DRIVER/ POWER SUPPLY	LIGHT SOURCE	INPUT WATTS	MFG/CATALOG #	NOTES
A1	RECESSED 2X4 LED TROFFER; NOMINAL 4FT WIDE BY 2FT LONG BY 2-3/8IN TALL	EXTRUDED ALUMINUM	FROSTED ACRYLIC CURVED SMOOTH LENS	RECESSED	WHITE	UL DRY	INTEGRAL DRIVER; 0-10V DIMMING TO 10%	3000 NOMINAL LUMENS; 4000K LED; 80CRI	22.5 W	LITHONIA BLT SERIES OR APPROVED EQUIVALENT	
A2	RECESSED 2X2 LED TROFFER; NOMINAL 2FT WIDE BY 2FT LONG BY 2-3/8IN TALL	EXTRUDED ALUMINUM	FROSTED ACRYLIC CURVED SMOOTH LENS	RECESSED	WHITE	UL DRY	INTEGRAL DRIVER; 0-10V DIMMING TO 10%	4000 NOMINAL LUMENS; 4000K LED; 80CRI	31 W	LITHONIA BLT SERIES OR APPROVED EQUIVALENT	
A3	RECESSED 2X4 LED TROFFER; NOMINAL 2FT WIDE BY 4FT LONG BY 2-3/8IN TALL	EXTRUDED ALUMINUM	FROSTED ACRYLIC CURVED SMOOTH LENS	RECESSED	WHITE	UL DRY	INTEGRAL DRIVER; 0-10V DIMMING TO 10%	4000 NOMINAL LUMENS; 4000K LED; 80CRI	30.5 W	LITHONIA BLT SERIES OR APPROVED EQUIVALENT	
B1	SURFACE / STEM MOUNTED 1X4 LED TROFFER; NOMINAL 1FT WIDE BY 4FT LONG BY 4-3/4IN TALL	EXTRUDED ALUMINUM	FROSTED ACRYLIC CURVED SMOOTH LENS	SURFACE / STEM MOUNTED	WHITE	UL DRY	INTEGRAL DRIVER; 0-10V DIMMING TO 10%	2000 NOMINAL LUMENS; 4000K LED; 80CRI	19 W	LITHONIA BLTX SERIES OR APPROVED EQUIVALENT	PROVIDE SQ ACCESSORY FOR STEM MOUNTED
D1	RECESSED 6" ROUND LED DOWNLIGHT; NOMINAL 6.25IN DIAMETER APERTURE BY 11.75IN WIDE BY 12.5IN DEEP BY 6IN TALL; WIDE DISTRIBUTION	EXTRUDED ALUMINUM		RECESSED	WHITE	UL DRY	INTEGRAL DRIVER; 0-10V DIMMING TO 10%	1500 NOMINAL LUMENS; 4000K LED; 80CRI	17.5 W	LITHONIA LDN6 SERIES OR APPROVED	
EM	WALL MOUNTED EMERGENCY LIGHTS WITH AIMABLE OPTICS; NOMINAL 9.75 LONG BY 3.25IN TALL BY 4.75IN DEEP	UV STABLE RESIN		WALL MOUNTED @ 7'-6" AFF OR AS RECOMMENDED PER FIXTURE INSTRUCTIONS	WHITE	UL DRY	INTEGRAL DRIVER	NOMINAL 220 LUMEN LED	2.4 W	LITHONIA ELM2L OR APPROVED	
G1	PENDANT LED CYLINDER; NOMINAL 5IN DIAMETER BY 5IN TALL	EXTRUDED ALUMINUM	FROSTED ACRYLIC LENS	PENDANT MOUNTED	WHITE	UL WET	INTEGRAL DRIVER; 0-10V DIMMING TO 10%	2000 NOMINAL LUMENS; 4000K LED; 90CRI	20.5 W	GOTHAM IVO 4 ROUND CYLINDER OR APPROVED	
G2	PENDANT LED CHANDELIER; NOMINAL 23.63IN DIAMETER BY 1.38IN TALL AND 13IN DIAMETER BY 2IN TALL	EXTRUDED AND ROLLED ALUMINUM	FROSTED SILICON DIFFUSER	PENDANT MOUNTED	BLACK	UL DRY	INTEGRAL DRIVER; 0-10V DIMMING	2775 NOMINAL LUMENS; 3000K LED; 90CRI	90 W	KUZCO LIGHTING CERCHIO LED CHANDELIER - KUZ1882549	
L1	SUSPENDED LINEAR LED; NOMINAL 3.5IN WIDE BY 4-3/4IN TALL; LENGTH AS INDICATED ON DRAWINGS; DIRECT DISTRIBUTION	EXTRUDED ALUMINUM	BATWING ACRYLIC LENS	SUSPENDED	WHITE	UL DRY	INTEGRAL DRIVER; 0-10V DIMMING TO 1%	510 NOMINAL LUMENS PER FT; 4000K LED; 80CRI	4 W/FT	NULITE REGOLO RP44-D SERIES OR APPROVED	
L2	SUSPENDED LINEAR LED; NOMINAL 3.5IN WIDE BY 4-3/4IN TALL; LENGTH AS INDICATED ON DRAWINGS; DIRECT DISTRIBUTION	EXTRUDED ALUMINUM	FROSTED FLUSH ACRYLIC LENS	SUSPENDED	WHITE	UL DRY	INTEGRAL DRIVER; 0-10V DIMMING TO 1%	295 NOMINAL LUMENS PER FT; 4000K LED; 80CRI	2.2 W/FT	NULITE REGOLO RP44-D SERIES OR APPROVED	
L3	RECESSED LINEAR LED; NOMINAL 3.5IN WIDE BY 4-3/4IN TALL; LENGTH AS INDICATED ON DRAWINGS; DIRECT DISTRIBUTION	EXTRUDED ALUMINUM	FROSTED FLUSH ACRYLIC LENS	SUSPENDED	WHITE	UL DRY	INTEGRAL DRIVER; 0-10V DIMMING TO 1%	509 NOMINAL LUMENS PER FT; 4000K LED; 80CRI	3.8 W/FT	NULITE REGOLO RG4-D SERIES OR APPROVED	
SA1	EXTERIOR LED WALL SCONCE; NOMINAL 17IN WIDE BY 8.5IN HIGH BY 10-3/16IN DEEP; VISUAL COMFORT FORWARD THROW DISTRIBUTION	DIE CAST ALUMINUM	HIGH IMPACT ACRILYC	WALL MOUNTED @ 20'-0" AFF (SAME AS EXISTING)	BRONZE	IP65	INTEGRAL DRIVER; 0-10V DIMMING	3163 NOMINAL LUMENS; 3000K LED; 80CRI	25 W	LITHONIA WST LED SERIES OR APPROVED	PARKING AREA
SA2	EXTERIOR LED WALL SCONCE; NOMINAL 17IN WIDE BY 8.5IN HIGH BY 10-3/16IN DEEP; VISUAL COMFORT WIDE DISTRIBUTION	DIE CAST ALUMINUM	HIGH IMPACT ACRILYC	WALL MOUNTED @ 8'-0" AFF (SAME AS EXISTING)	BRONZE	IP65	INTEGRAL DRIVER; 0-10V DIMMING	3201 NOMINAL LUMENS; 3000K LED; 80CRI	25 W	LITHONIA WST LED SERIES OR APPROVED	MECHANICAL WELL AREA
SG	SURFACE MOUNTED LED DISK; NOMINAL 11IN DIAMETER BY 1.14IN TALL	EXTRUDED ALUMINUM	FROSTED ACRYLIC LENS	SURFACE MOUNTED	WHITE	UL WET	INTEGRAL DRIVER; 0-10V DIMMING TO 10%	1435 NOMINAL LUMENS; 3000K LED; 90CRI	14.5 W	JUNO SLIMFORM SERIES OR APPROVED	
SJ	EXTERIOR LED ADJUSTABLE WALL MOUNTED FLOOD LIGHT; NOMINAL 12.87IN WIDE BY 7.83IN TALL BY 4.32IN DEEP; WIDE FLOOD DISTRIBUTION	DIE CAST ALUMINUM	SPECULAR REFLECTOR	WALL MOUNTED @ 9'-6" AFF (SAME AS EXISTING)	BRONZE	UL WET	INTEGRAL DRIVER; 0-10V DIMMING	7489 NOMINAL LUMENS; 3000K LED; 80CRI	143 W	LITHONIA DSXF2 SERIES OR APPROVED	
UC1	UNDERCABINET LED LIGHTING; NOMINAL 2.55IN WIDE BY 1.07IN TALL BY 12IN LONG	EXTRUDED ALUMINUM	FROSTED ACRYLIC LENS	SURFACE MOUNTED	WHITE	UL DAMP	INTEGRAL DRIVER	900 NOMINAL LUMENS; 4000K LED; 90CRI	9 W	JUNO UCES LED SERIES OR APPROVED	
UC2	UNDERCABINET LED LIGHTING; NOMINAL 2.55IN WIDE BY 1.07IN TALL BY 24IN LONG	EXTRUDED ALUMINUM	FROSTED ACRYLIC LENS	SURFACE MOUNTED	WHITE	UL DAMP	INTEGRAL DRIVER	900 NOMINAL LUMENS; 4000K LED; 90CRI	17 W	JUNO UCES LED SERIES OR APPROVED	
UC3	UNDERCABINET LED LIGHTING; NOMINAL 2.55IN WIDE BY 1.07IN TALL BY 36IN LONG	EXTRUDED ALUMINUM	FROSTED ACRYLIC LENS	SURFACE MOUNTED	WHITE	UL DAMP	INTEGRAL DRIVER	900 NOMINAL LUMENS; 4000K LED; 90CRI	21 W	JUNO UCES LED SERIES OR APPROVED	
V1	WALL MOUNTED VANITY LED LIGHT; NOMINAL 33-1/4IN LONG BY 2IN DEEP BY 4-7/16IN TALL	BRUSHED NICKEL HOUSING	ACRYLIC LENS	WALL MOUNTED @ 6'-6" AFF, ABOVE MIRROR	BRUSHED NICKEL	UL DRY	INTEGRAL DRIVER	1922 NOMINAL LUMENS; 4000K LED; 90CRI	26 W	LITHONIA FMVCSL SERIES OR APPROVED	
X	UNIVERSAL MOUNTED THIN PROFILE LED EXIT SIGN; NOMINAL 12IN WIDE BY 8.5IN TALL BY 0.5IN DEEP	DIE CAST ALUMINUM		COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS	AS SELECTED BY ARCHITECT			RED LED	2 W	EVENLITE RAZOR SERIES OR APPROVED	
Z1	SURFACE / SUSPENDED MOUNTED LED STRIP LIGHT; NOMINAL 2.62IN WIDE BY 2.22IN TALL BY 48IN LONG	COLD ROLLED STEEL	POLYCARBONATE DIFFUSED LENS	SURFACE / SUSPENDED MOUNTED	WHITE	UL DAMP	INTEGRAL DRIVER; 0-10V DIMMING	5228 NOMINAL LUMENS; 4000K LED; 80CRI	38 W	LITHONIA CSS SERIES OR APPROVED	
Z2	SUSPENDED VAPOR TIGHT INDUSTRIAL STRIP LED LIGHT; NOMINAL 5.4IN WIDE BY 3.8IN TALL BY 6IN LONG; MEDIUM DISTRIBUTION	POLYCARBONATE HOUSING	FROSTED POLYCARBONATE LENS	SUSPENDED MOUNTED	GRAY	IP 65	INTEGRAL DRIVER; 0-10V DIMMING	12000 NOMINAL LUMENS; 4000K LED; 80CRI	106 W	LITHONIA CSVT SERIES OR APPROVED	FOR HAZARDOUS H4 CHEMICAL FEED AREA

NOTES:

1. THIS LUMINAIRE SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING THE ELECTRICAL SPECIFICATIONS.
2. DIMMING CONTROL PROTOCOL (0-10VDC, LINE VOLTAGE, DALI, ETC.) COMPATIBLE WITH LIGHTING CONTROL SYSTEM AS SPECIFIED AND SHOWN ON DRAWINGS.
3. PROVIDE +/- 12 INCH ADJUSTABILITY IN AIRCRAFT CABLE LENGTH WHERE USED.
4. COORDINATE ALL CEILING TYPES WITH LUMINAIRE LOCATIONS PRIOR TO ORDERING LUMINAIRES. COORDINATE INSTALLATION WITH REFLECTED CEILING PLAN.
5. SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.
6. PROVIDE SUBMITTALS THAT INCLUDE THE LUMINAIRE, LAMP AND DIMMABLE LED DRIVER INFORMATION OF EACH LUMINAIRE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.
7. REMOTE DRIVERS: UL LISTED FOR THEIR APPLICATION. DRIVERS MARKED AS UL RECOGNIZED COMPONENT BUT NOT UL LISTED ARE SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO OWNER.
8. REFER TO FLOOR PLANS FOR LOCATION, CIRCUITING, AND SWITCH LEG FOR EACH REMOTE DRIVER. LABEL ALL REMOTE DRIVERS TO SHOW LUMINAIRE TYPE IDENTIFICATION AND SOURCE CIRCUIT. PROVIDE WIRING BETWEEN REMOTE DRIVER AND LUMINAIRE AS RECOMMENDED BY MANUFACTURER. DO NOT EXCEED MAXIMUM DISTANCE RECOMMENDED BY MANUFACTURER BETWEEN DRIVER AND FURTHEST LUMINAIRE.
18. PROVIDE FUNCTIONAL TESTING OF LIGHTING AND LIGHTING CONTROLS IN ACCORDANCE WITH THE 2025 OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEESC) FUNCTIONAL TESTING REQUIREMENTS

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CLACKAMAS COUNTY STAMP

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CRW #: 25-1199

Clackamas River Water

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EXPIRES: 12/31/26

△	DESCRIPTION	DATE:

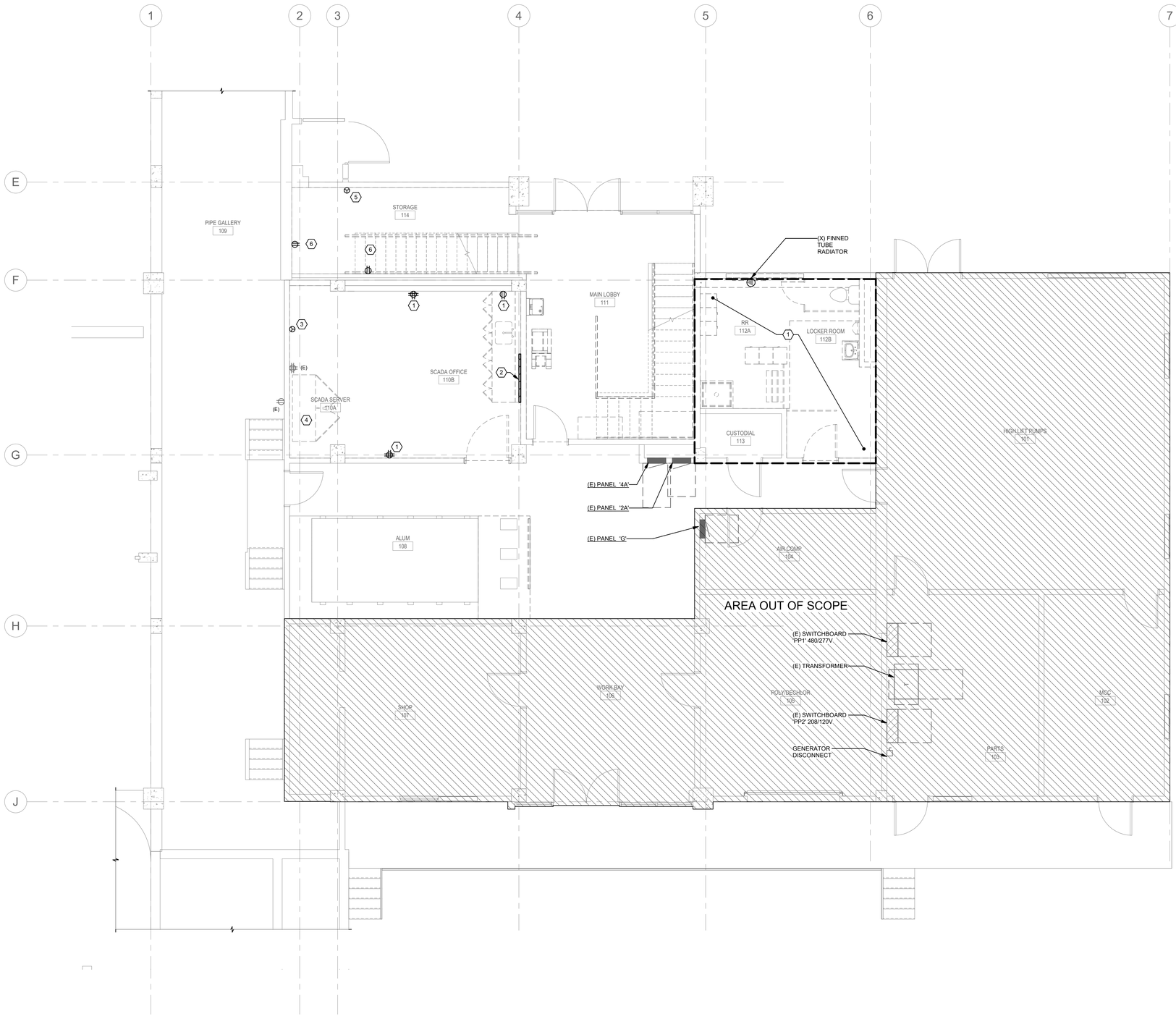
PROJECT NO.	P-3116-26
DESIGNED:	Author
REVIEWED:	CN
DATE:	08-07-26

LUMINAIRE SCHEDULES - ELECTRICAL

E0.02

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE 8/7/2026 1:57:44 PM Autodesk Docs://P3116 Clackamas River Water/P3116_MEPT_R26.rvt



1 DEMO FIRST FLOOR PLAN - POWER

0' 2' 4' 8'

1/4" = 1'-0"

SHEET KEYNOTES

1. DEMOLISH EXISTING RECEPTACLES IN SPACE BACK TO SOURCE.
2. DEMOLISH EXITING WIREMOLD AND RECEPTACLES BACK TO SOURCE.
3. DEMOLISH EXISTING HVAC EQUIPMENT CONNECTION BACK TO SOURCE.
4. REMOVE EXISTING CABINET AND PROTECT FOR REINSTALLATION. COORDINATE WITH OWNER.
5. EXISTING RACK TO BE RELOCATED TO SCADA SERVER ROOM. PROTECT CIRCUIT FOR RELOCATION / EXTENSION UNDER NEW SCOPE OF WORK. COORDINATE REMOVAL WITH OWNER.
6. REMOVE EXISTING FRIDGE AND FREEZER RECEPTACLES. PROTECT WIRES FOR RECONNECTION / EXTENSION TO NEW LOCATION.

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WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

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REGISTERED PROFESSIONAL ENGINEER
72777PE
OREGON
JUNE 02, 2010
MARK K. O'LEARY

EXPIRES: 12/31/26

△	DESCRIPTION	DATE:

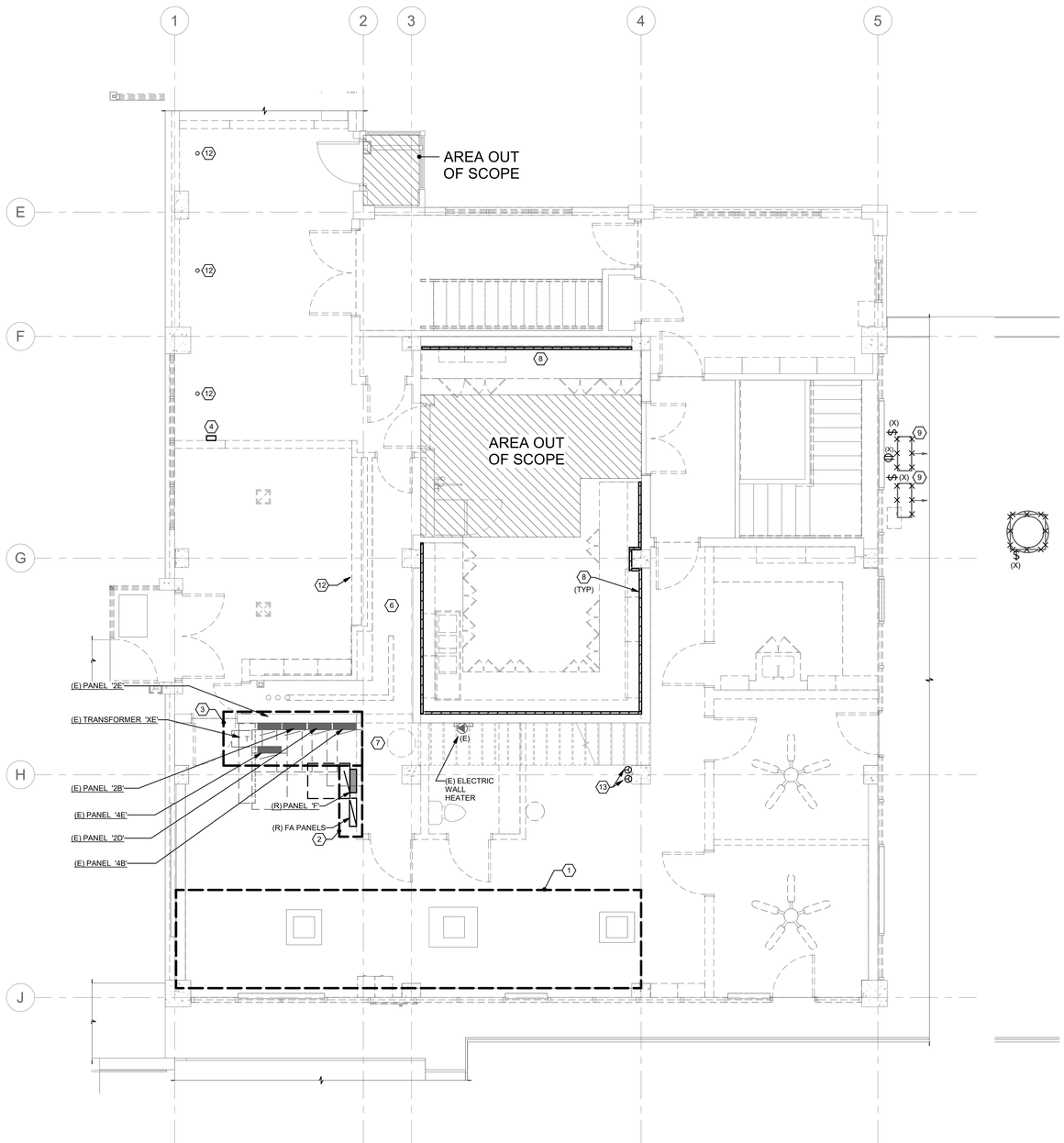
PROJECT NO.	P-3116-26
DESIGNED:	Author
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DATE:	08-07-26

DEMO FIRST FLOOR PLAN - POWER

ED2.10

BID AND PERMIT SET

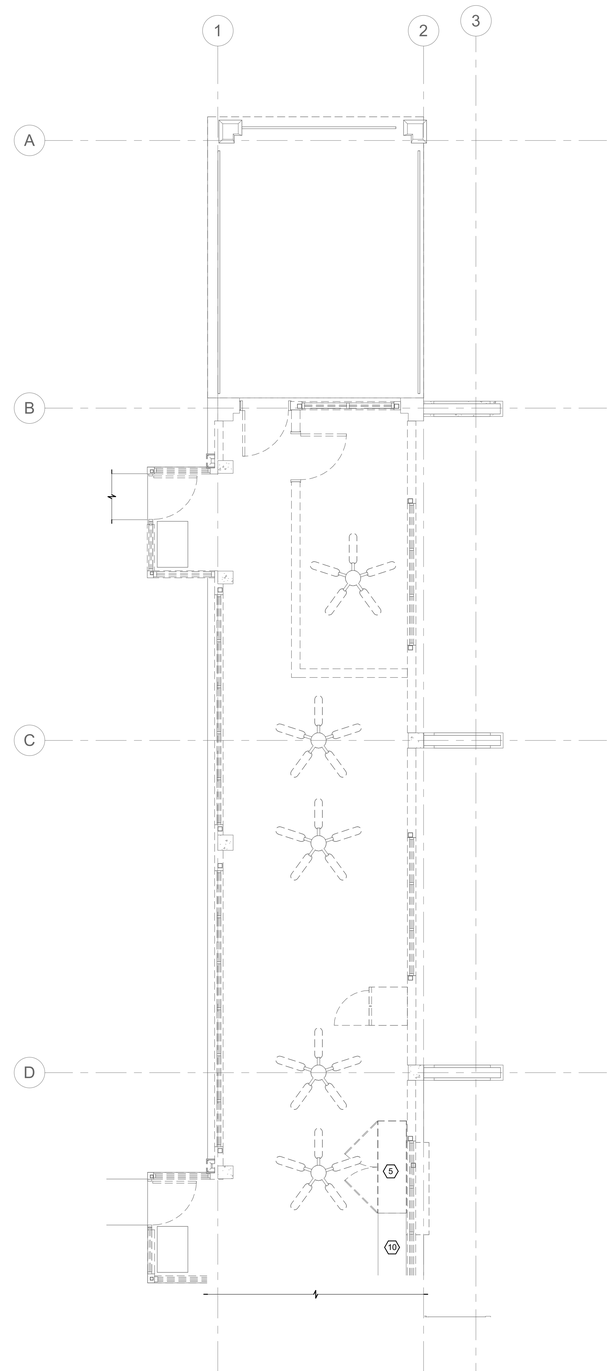
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1 DEMO SECOND FLOOR PLAN - POWER

0' 2' 4' 8'

1/4" = 1'-0"



2 DEMO SECOND FLOOR PLAN - CONFERENCE - POWER

0' 2' 4' 8'

1/4" = 1'-0"

GENERAL SHEET NOTES

A. EXISTING EXTERIOR WALL TO BE IMPROVED ON EXTERIOR WALLS THAT ARE SHOWN TO BE DEMOLISHED, REFER TO DRAWING D1.20 AND ARCHITECTURAL EXTERIOR ELEVATIONS A4.10 AND A4.20. REMOVE ANY RECEPTACLE / EQUIPMENT / DEVICE, PULL CIRCUIT BACK TO NEXT UPSTREAM BOX AND PROTECT FOR RECONNECTION / EXTENSION UNDER NEW SCOPE OF WORK.

B. DEMOLISH EXISTING RECEPTACLES, WIREMOLD DEVICES CIRCUITS BACK TO SOURCE. PROTECT CONDUIT IF POSSIBLE FOR REUSE UNDER NEW SCOPE OF WORK.

SHEET KEYNOTES

1. EXISTING PROCESS EQUIPMENT CONNECTIONS AND CONTROLS TO REMAIN.
2. EXISTING PANEL 'F'. FIRE ALARM EQUIPMENTS AND ANTENNA TO BE RELOCATED. REFER TO DRAWINGS E2.10 AND E2.20 FOR NEW LOCATION.
3. EXISTING PANELS, TRANSFORMER, AND 50A/2P CIRCUIT BREAKER TO REMAIN.
4. EXISTING FIRE ALARM ANNUNCIATOR TO BE RELOCATED. REFER TO DRAWING E2.20 FOR NEW LOCATION.
5. REMOVE EXISTING PLC CABINET AND SALVAGE TO OWNER. DEMO RECEPTACLE CIRCUIT BACK TO SOURCE. COORDINATE WITH OWNER.
6. DEMOLISH RECEPTACLES FOR SECURITY AND LOW VOLTAGE RACKS IN SPACE BACK TO UPSTREAM DEVICE, PROTECT FOR RECONNECTION / EXTENSION TO NEW LOCATION., COORDINATE WITH DIVISION 27.
7. EXISTING WATER HEATER TO BE RELOCATED. REMOVE DISCONNECT AND PROTECT WIRES FOR RECONNECTION / EXTENSION AT NEW LOCATION.
8. DEMOLISH EXISTING SURFACE METAL RECEPTACLE RACEWAY. PROTECT CIRCUITS FOR RECONNECTION / EXTENSION TO NEW SURFACE METAL RECEPTACLE RACEWAY UNDER NEW SCOPE OF WORK.
9. DEMOLISH EXISTING EXTERIOR DISCONNECT.
10. REMOVE EXISTING COMMS CABINET, COORDINATE REMOVAL WITH OWNER. PROTECT EXISTING CIRCUIT AND CONNECTION FOR RECONNECTION.
11. REMOVE OUTLETS, CAP CONDUIT AND PROTECT FOR EXTENSION / RECONNECTION TO NEW DEVICES UNDER NEW SCOPE OF WORK.
12. CONDUIT STUB TO BE RELOCATED, REFER TO NEW SCOPE OF WORK.
13. REMOVE EXISTING OUTLETS, PULL CIRCUITS AND PROTECT FOR EXTENSION/RECONNECTION AT NEW LOCATION.

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WTP BUILDING IMPROVEMENTS 2026

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Clackamas River Water

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MARK K. O'LEARY
EXPIRES: 12/31/26

△	DESCRIPTION	DATE:

PROJECT NO.	P-3116-26
DESIGNED:	Author
REVIEWED:	CN
DATE:	08-07-26

DEMO SECOND FLOOR PLAN - POWER

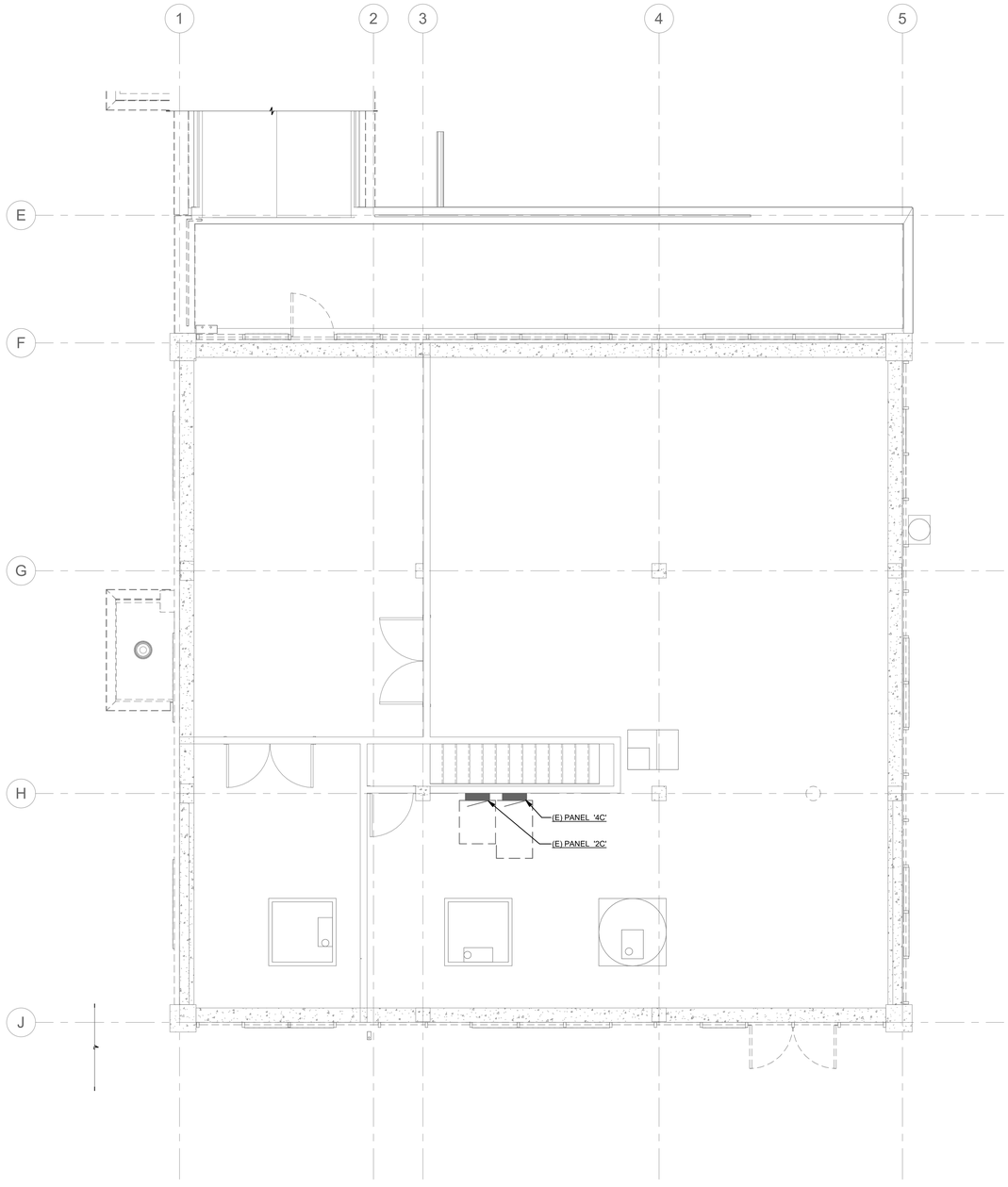
ED2.20

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE 8/7/2026 1:57:49 PM Autodesk Docs://P3116 Clackamas River Water/P3116_MEP_R26.rvt

GENERAL SHEET NOTES

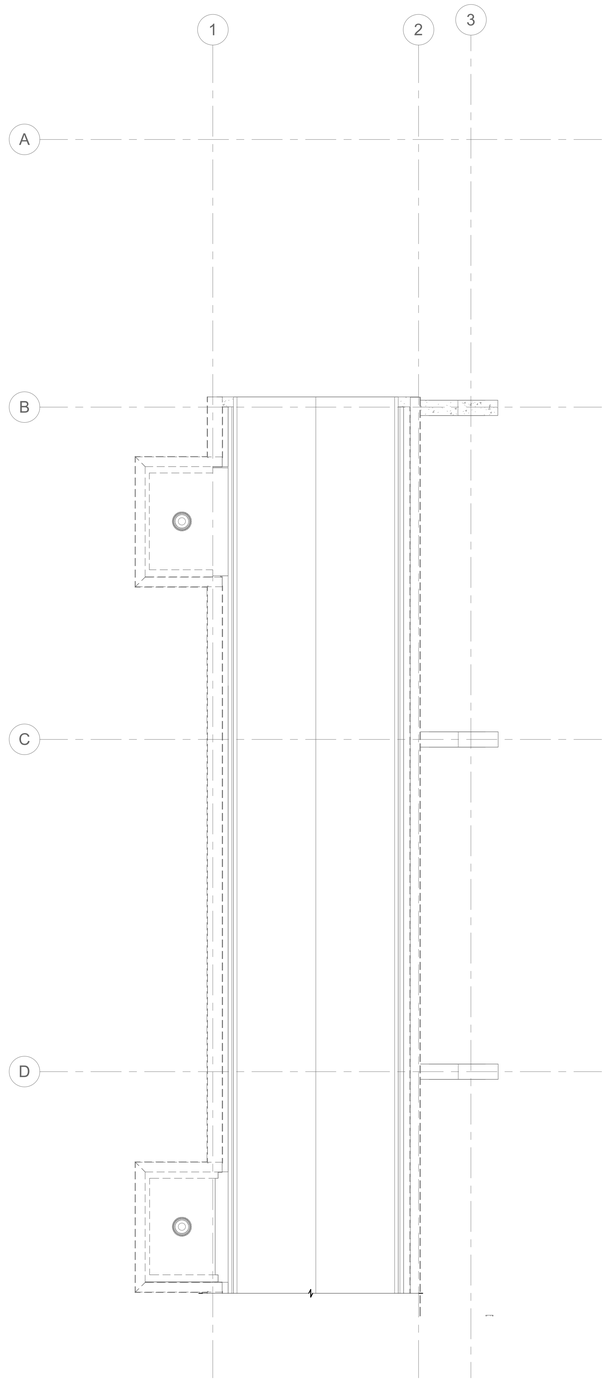
A. EXISTING EXTERIOR WALL TO BE IMPROVED. REMOVE ANY RECEPTACLE/EQUIPMENT/DEVICE, PULL CIRCUIT BACK TO NEXT UPSTREAM BOX AND PROTECT FOR RECONNECTION/EXTENSION UNDER NEW SCOPE OF WORK.



1 DEMO THIRD FLOOR PLAN - POWER

0' 2' 4' 8'

1/4" = 1'-0"



2 DEMO ROOF PLAN - POWER

0' 2' 4' 8'

1/4" = 1'-0"

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DEMO THIRD FLOOR PLAN - POWER

ED2.30

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

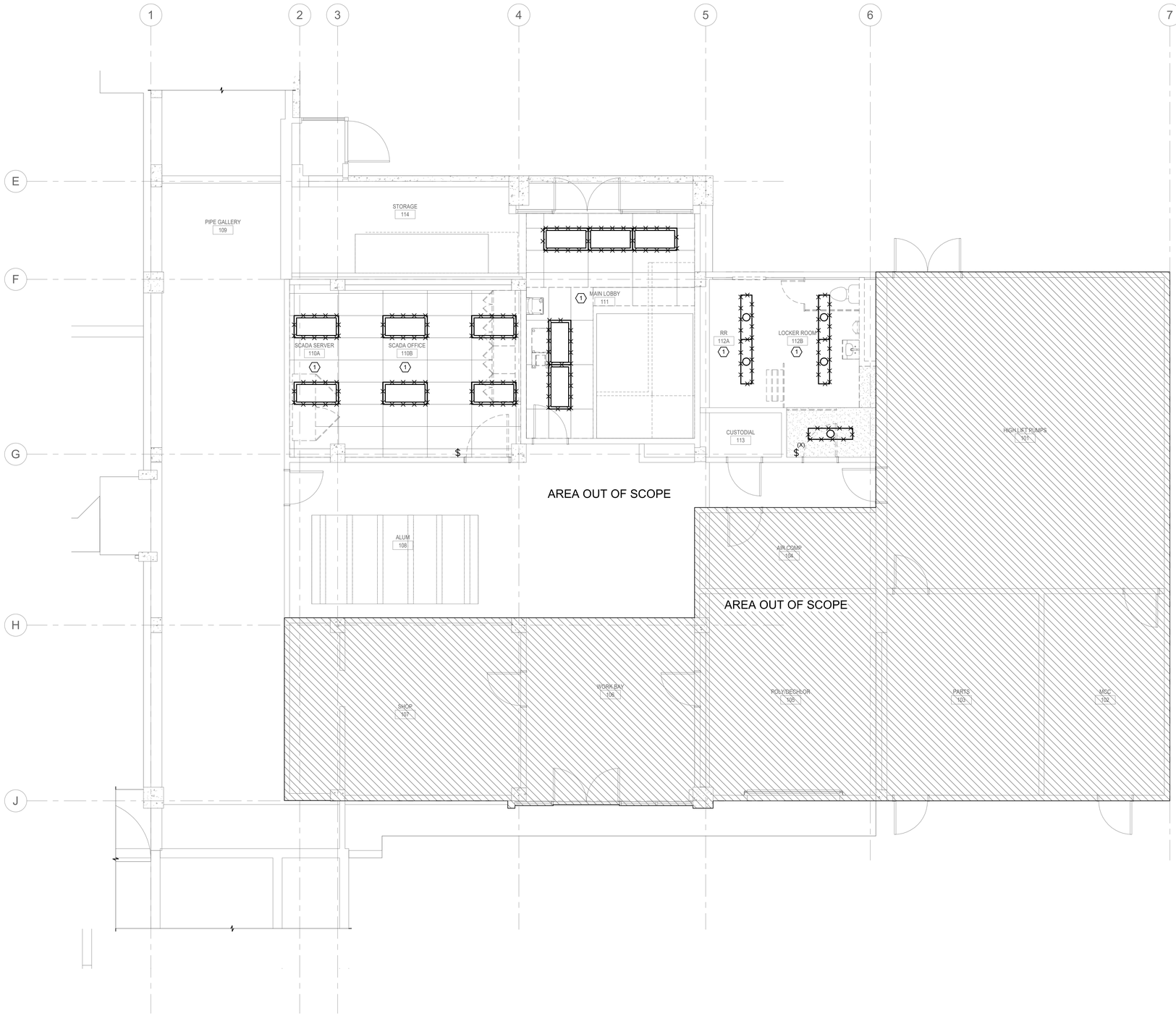
8/7/2026 1:57:50 PM Autodesk Docs://P3116 Clackamas River Water/P3116_MEPT_R26.rvt

GENERAL SHEET NOTES

A. EXISTING EXTERIOR WALL TO BE IMPROVED. REMOVE EXISTING LIGHTING. PULL CIRCUIT BACK TO SOURCE. PROTECT EXISTING CONDUIT FOR REUSE UNDER NEW SCOPE OF WORK.

SHEET KEYNOTES

1. DEMOLISH EXISTING LIGHTING AND CONTROLS IN SPACE. MAINTAIN EXISTING CIRCUIT WIRING FOR CONNECTION / EXTENSION UNDER NEW SCOPE OF WORK, U.O.N.



1 DEMO FIRST FLOOR PLAN - LIGHTING

0' 2' 4' 8'

1/4" = 1'-0"

ONE INCH EQUALS FULL SCALE 8/7/2026 1:57:51 PM Autodesk Docs://P3116 Clackamas River Water/P3116_MEPT_R26.rvt

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REVIEWED:	CN
DATE:	08-07-26

DEMO FIRST FLOOR PLAN - LIGHTING

ED3.10

BID AND PERMIT SET

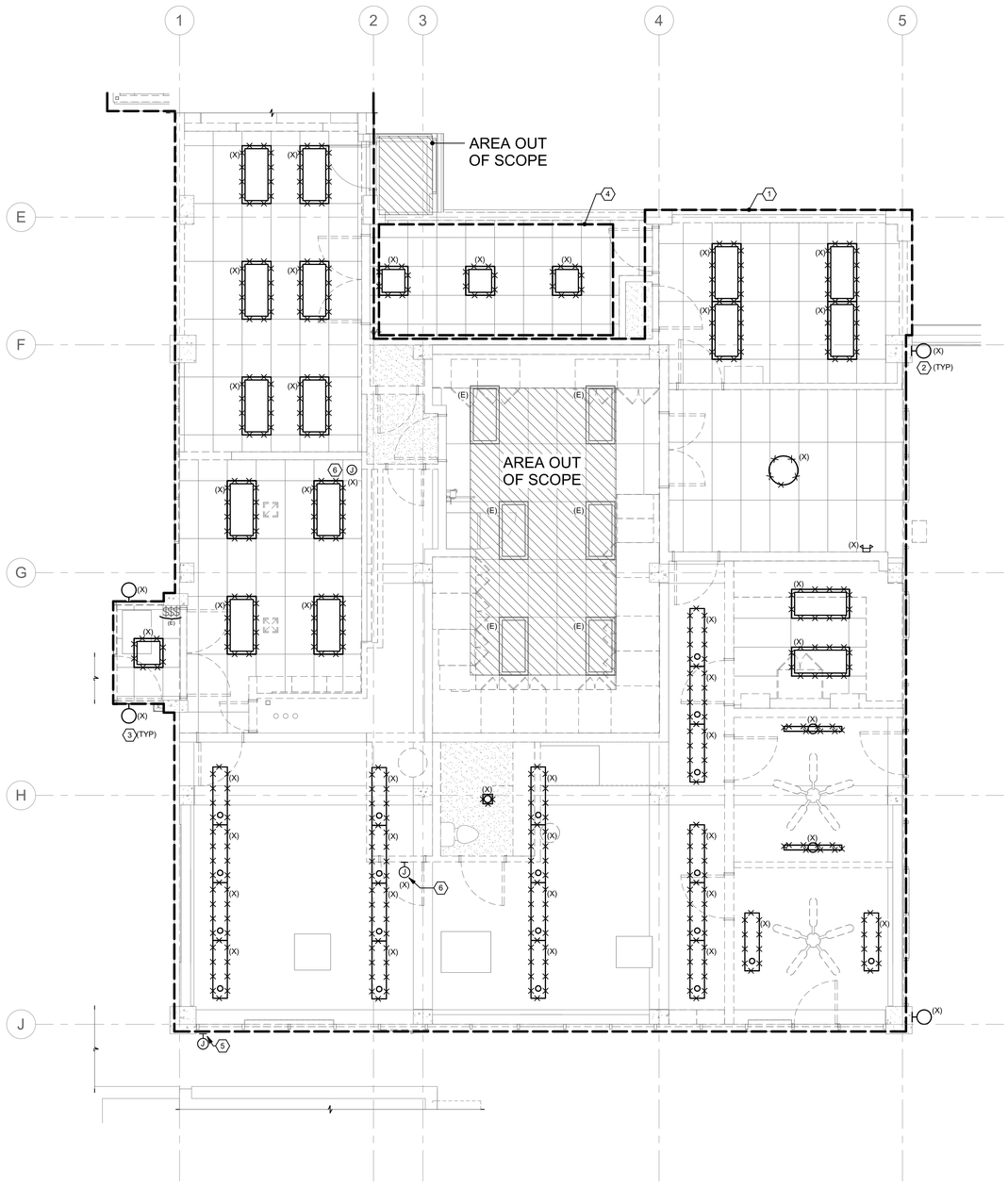
GENERAL SHEET NOTES

A. EXISTING EXTERIOR WALL TO BE IMPROVED, REFER TO DRAWING D1.20 AND ARCHITECTURAL EXTERIOR ELEVATIONS A4.10 AND A4.20. REMOVE EXISTING LIGHTING, PROTECT EXISTING LIGHTING CIRCUIT FOR RECONNECTION / EXTENSION UNDER NEW SCOPE OF WORK.

B. DEMOLISH EXISTING FAN CONNECTIONS AND CONTROLS.

SHEET KEYNOTES

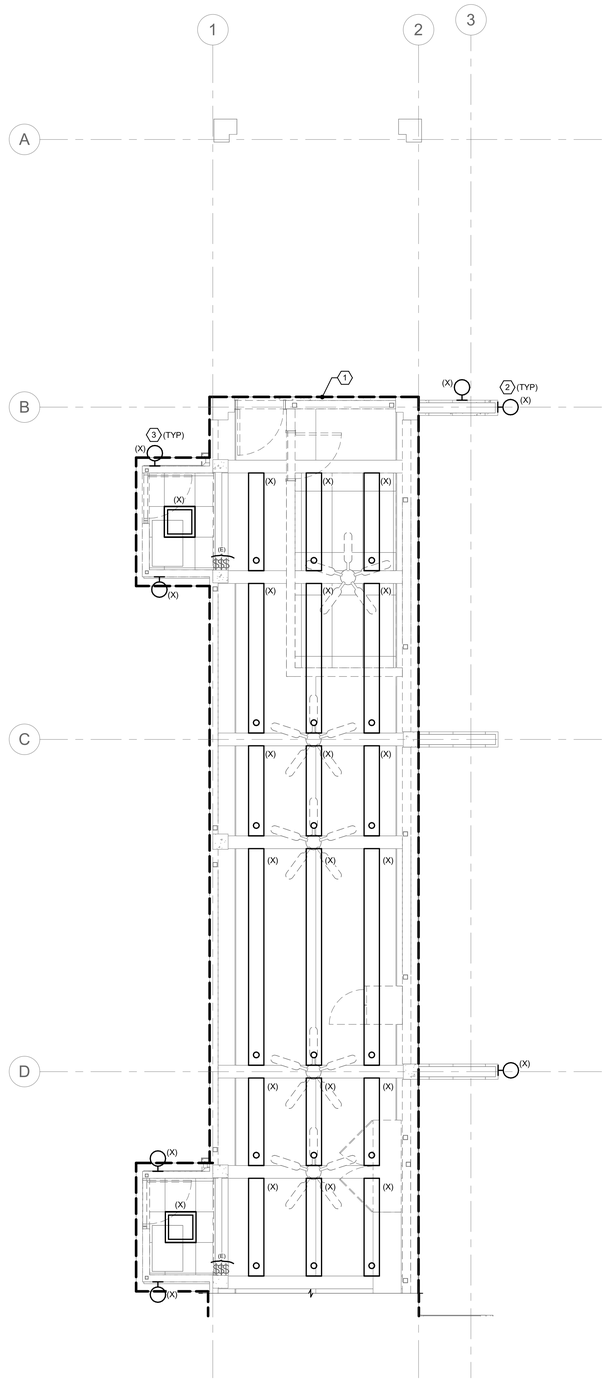
1. DEMOLISH EXISTING INTERIOR LIGHTING AND CONTROLS. MAINTAIN EXISTING CIRCUIT WIRING FOR REUSE UNDER NEW SCOPE OF WORK, U.O.N.
2. DEMOLISH EXISTING EXTERIOR LIGHTS. PROTECT WIRES FOR RECONNECTION UNDER NEW SCOPE OF WORK.
3. DEMOLISH EXISTING EXTERIOR WALL MOUNTED FLOOD LIGHTS. PULL CIRCUITS OUT OF DEMO ZONE AND PROTECT THEM FOR RECONNECTION UNDER NEW SCOPE OF WORK.
4. REMOVE LIGHTS FOR CEILING DEMOLITION. STORED THEM FOR REINSTALLATION ONCE NEW CEILING IS COMPLETED. PROTECT WIRES FOR RECONNECTION.
5. REMOVE EXISTING LIGHTING PHOTOCELL CONTROL AND STORE FOR REINSTALLATION. PULL CONTROL WIRES OUT OF DEMOLITION ZONE AND PROTECT THEM FOR EXTENSION / RECONNECTION UNDER NEW SCOPE OF WORK.
6. REMOVE EXISTING ALARM LIGHT AND PROTECT FOR REINSTALLATION. PROTECT EXISTING WIRING.



1 DEMO SECOND FLOOR PLAN - LIGHTING

0' 2' 4' 8'

1/4" = 1'-0"



2 DEMO SECOND FLOOR PLAN - CONFERENCE - LIGHTING

0' 2' 4' 8'

1/4" = 1'-0"

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Clackamas River Water

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JUNE 02, 2020
MARK K. O'LEARY
EXPIRES: 12/31/26

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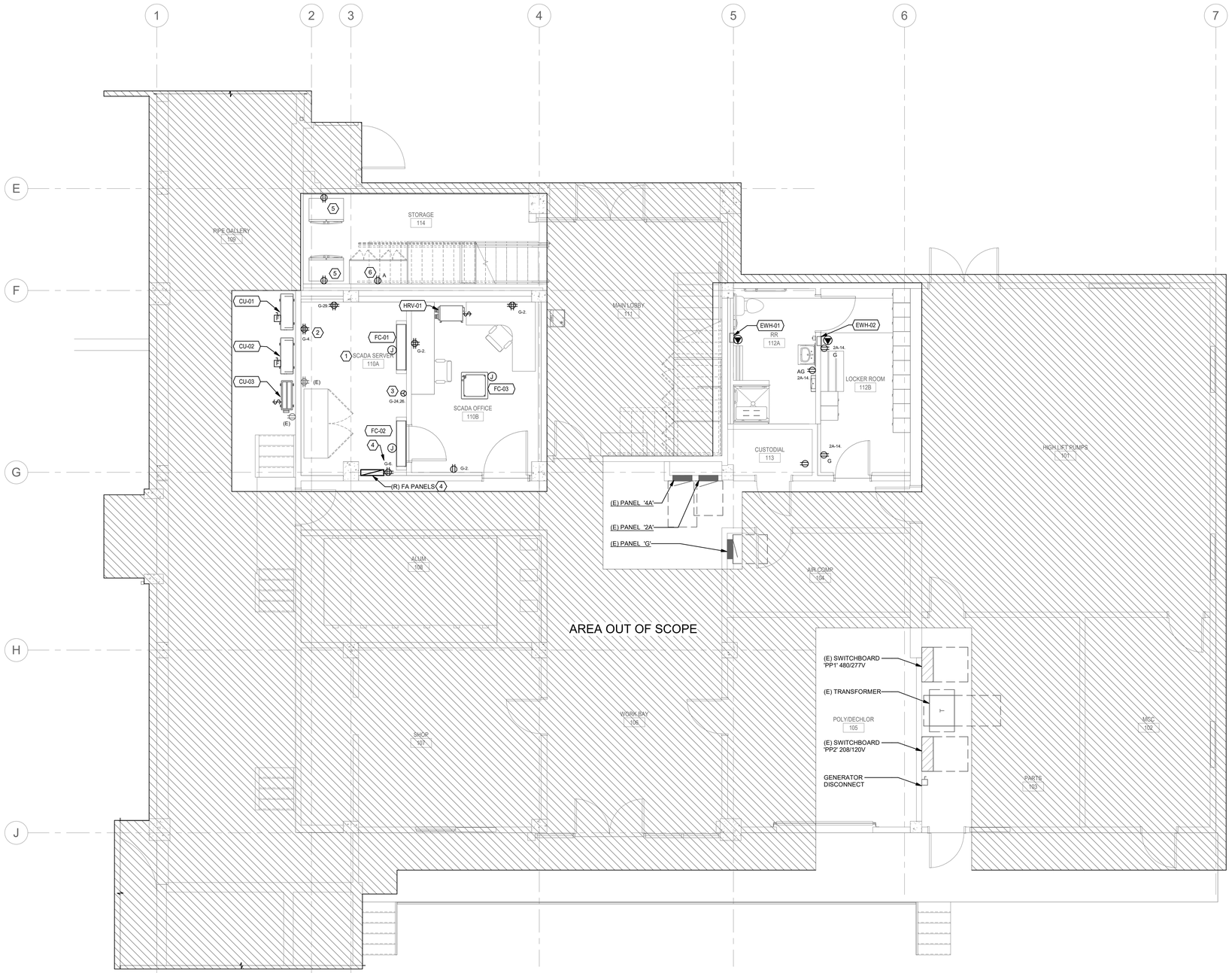
PROJECT NO.	P-3116-26
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DEMO SECOND FLOOR PLAN - LIGHTING

ED3.20

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE 8/7/2026 1:57:54 PM Autodesk Docs://P3116 Clackamas River Water/P3116_MEPT_R26.rvt



1 FIRST FLOOR PLAN - POWER

0' 2' 4' 8'

1/4" = 1'-0"

SHEET KEYNOTES

1. PROVIDE DEDICATED CONNECTIONS TO RACKS. COORDINATE EXACT REQUIREMENTS WITH DIV 27 AND OWNER.
2. SECURITY RACK.
3. SCADA RACK. PROVIDE 20A 208V CONNECTION, PROVIDE NEMA L6-20R RECEPTACLE.
4. FIRE PANELS AND ANTENNA, EQUIPMENT TO BE RELOCATED FROM LEVEL 2 TO THIS AREA. COORDINATE EXACT LOCATION WITH OWNER AND DIVISION 28. PROVIDE NEW CIRCUITS.
5. PROVIDE NEW RECEPTACLES, EXTEND FROM EXISTING CIRCUIT PROTECTED DURING DEMO PHASE.
6. PROVIDE RECEPTACLE, EXTEND / CONNECT TO EXISTING RACK CIRCUIT PROTECTED DURING DEMO PHASE.

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REGISTERED PROFESSIONAL ENGINEER
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OREGON
JUNE 02, 2000
MARK K. O'LEARY
EXPIRES: 12/31/26

△	DESCRIPTION	DATE:

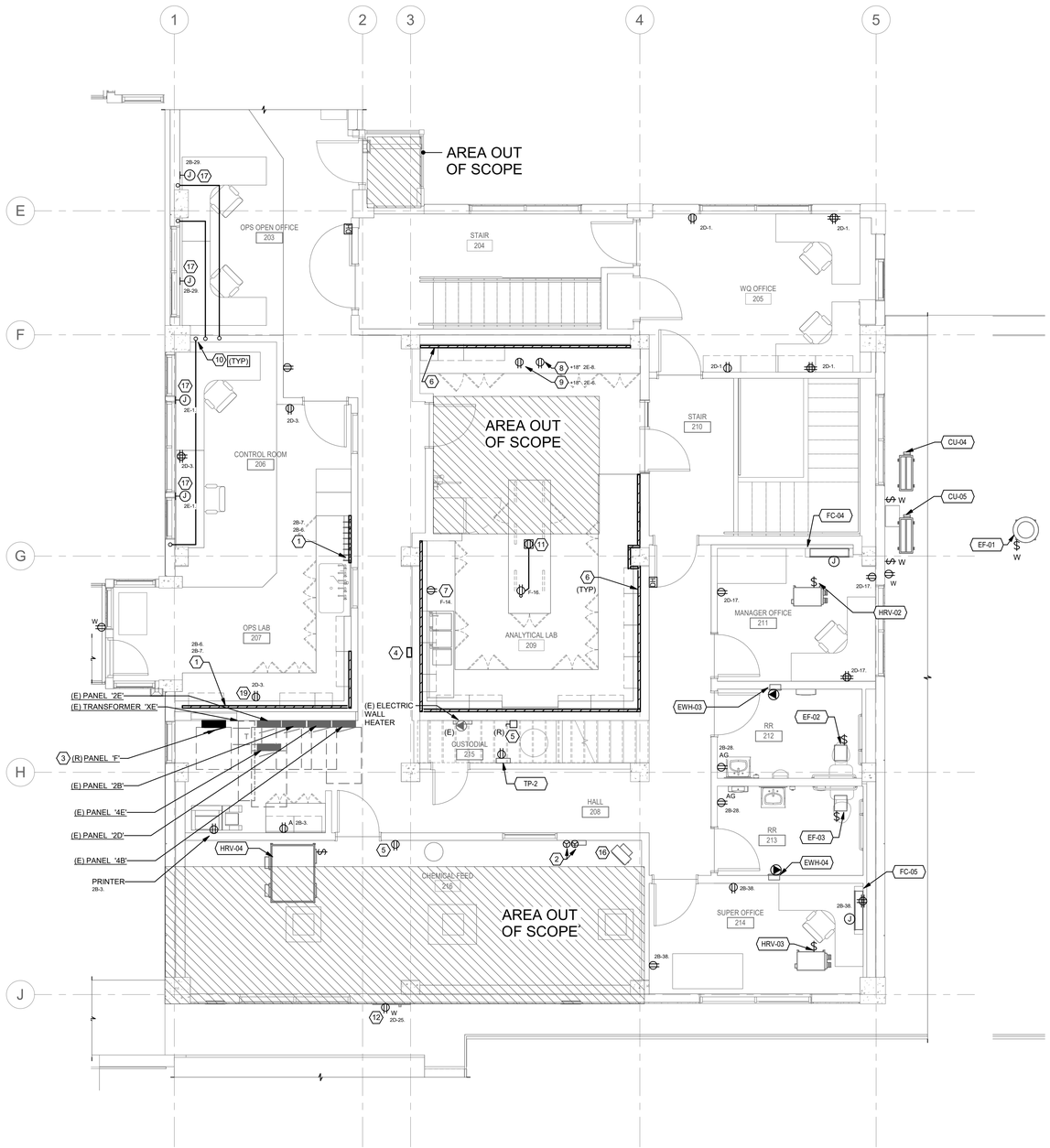
PROJECT NO.	P-3116-26
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REVIEWED:	CN
DATE:	08-07-26

FIRST FLOOR PLAN - POWER

E2.10

BID AND PERMIT SET

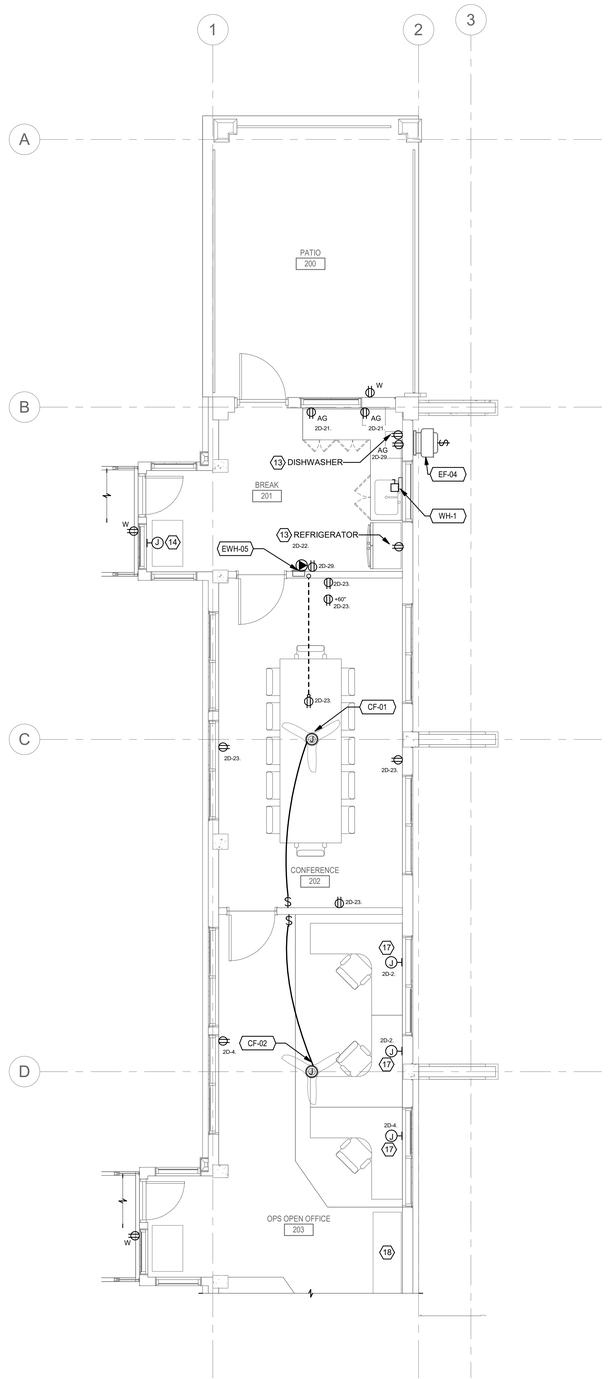
ONE INCH EQUALS FULL SCALE 8/7/2026 1:57:55 PM Autodesk Docs://P3116 Clackamas River Water/P3116_MEPT_R26.rvt



1 SECOND FLOOR PLAN - POWER

0' 2' 4' 8'

1/4" = 1'-0"



2 SECOND FLOOR PLAN - CONFERENCE - POWER

0' 2' 4' 8'

1/4" = 1'-0"

GENERAL SHEET NOTES

A. ON EXTERIOR WALL. EXTEND CIRCUIT FROM PROTECTED UPSTREAM BOX AND NEW RECEPTACLES / EQUIPMENT IN SAME LOCATION.

SHEET KEYNOTES

1. PROVIDE WIREMOLD WITH GFCI RECEPTACLES SPACED EVERY 18IN. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT CONNECTION HEIGHT. ALTERNATE ADJACENT RECEPTACLES ON DIFFERENT CIRCUITS.
2. PROVIDE NEW OUTLETS IN SAME KIND AS EXISTING ONES. EXTEND/ RECONNECT TO EXISTING CIRCUITS PROTECTED DURING DEMOLITION.
3. RELOCATE EXISTING PANEL 'F'. EXTEND / RECONNECT EXISTING FEEDER.
4. RELOCATE EXISTING FIRE ALARM ANNUNCIATIOR, COORDINATE EXACT LOCATION WITH DIVISION 28.
5. RELOCATE EXISTING WATER HEATER DISCONNECT.
6. PROVIDE NEW SURFACE METAL RECEPTACLE RACEWAY WITH GFCI RECEPTACLES SPACED EVERY 18IN. U.O.N. ADJUST CONNECTION HEIGHT TO NEW COUNTER ELEVATION, REFER TO ARCHITECTURAL ELEVATION VIEWS. EXTEND / RECONNECT EXISTING PROTECTED CIRCUITS TO NEW SURFACE METAL RACEWAY, ALTERNATE ADJACENT RECEPTACLES ON DIFFERENT CIRCUITS.
7. DISHWASHER.
8. FREEZER. COORDINATE EXACT CONNECTION REQUIREMENTS WITH OWNER AND PROVIDER PRIOR TO ROUGH-IN.
9. COOLER. COORDINATE EXACT CONNECTION REQUIREMENTS WITH OWNER AND PROVIDER PRIOR TO ROUGH-IN.
10. RELOCATE STUB UPS, ROUTE CONDUIT ABOVE CEILING AND DOWN THROUGH WALL TO WHIP FURNITURE CONNECTIONS IN THIS AREA.
11. PROVIDE DEQUORUM FLIP-UP TABLE BOX DUPLEX RECEPTACLE WITH (2) USB PORTS, LEGRAND DQFF20UBK. PROVIDE GFCI BREAKER IN PANEL. RECEPTACLE TO BE FED FROM POKE-THRU FLOOR BOX. COORDINATE EXACT FLOOR BOX AND RECEPTACLE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
12. PROVIDE DEDICATED CIRCUIT.
13. PROVIDE GFCI BREAKER.
14. PLC CABINET. PROVIDE DEDICATE CIRCUIT.
15. EXTEND TO EXISTING CIRCUIT IN SPACE.
16. RELOCATED ELECTRIC UNIT HEATER, EXTEND EXISTING CIRCUIT.
17. PROVIDE WHIP FURNITURE CONNECTIONS.
18. REINSTALL EXISTING COMMS CABINET. RECONNECT TO EXISTING CIRCUIT PROTECTED DURING DEMO PHASE. PROVIDE LABEL 'COMMS CABINET'.
19. MONITOR. COORDINATE EXACT HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

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Clackamas River Water

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JUNE 02, 2020
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EXPIRES: 12/31/26

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SECOND FLOOR PLAN - POWER

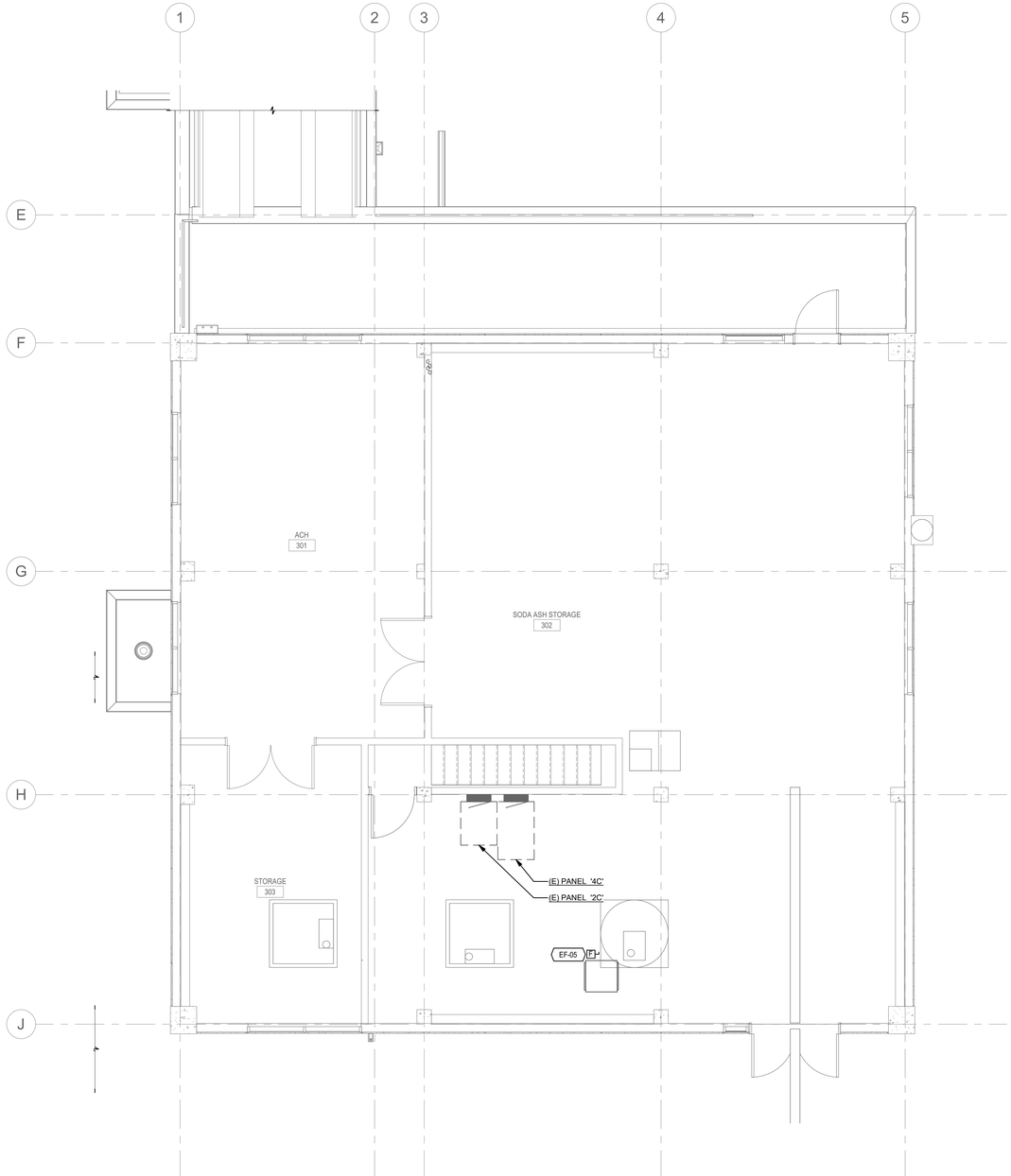
E2.20

BID AND PERMIT SET

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GENERAL SHEET NOTES

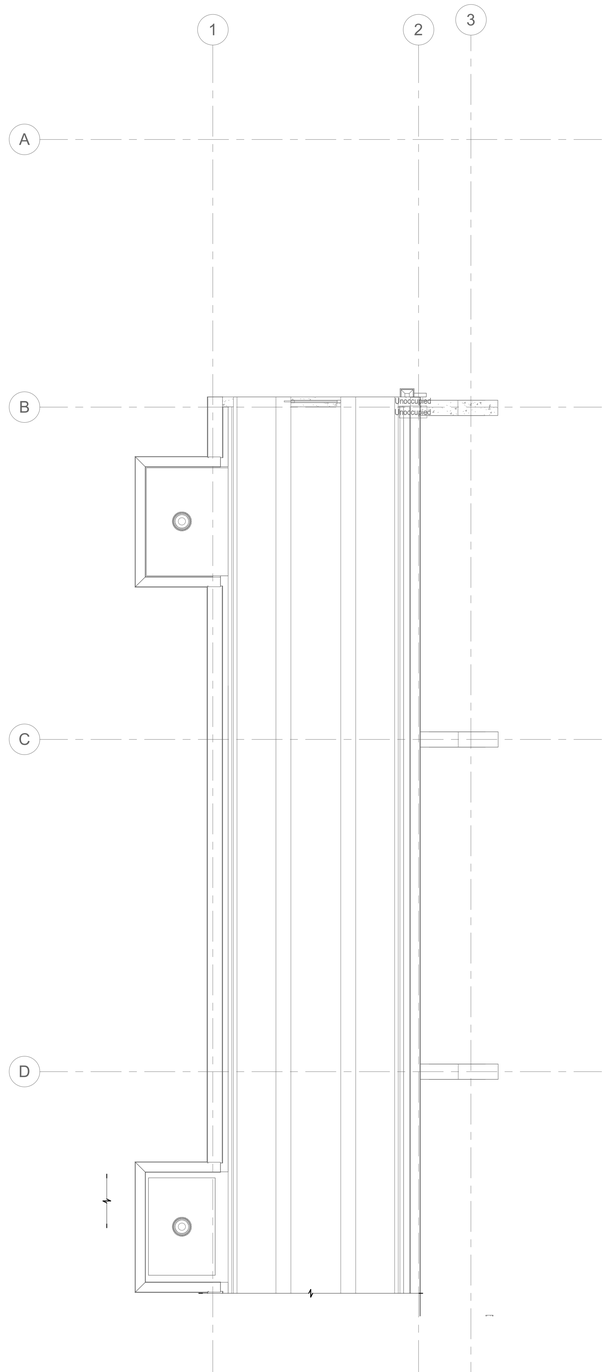
A. ON EXTERIOR WALL, EXTEND CIRCUIT FROM PROTECTED UPSTREAM BOX AND NEW RECEPTACLES / EQUIPMENT IN SAME LOCATION.



1 THIRD FLOOR PLAN - POWER

0' 2' 4' 8'

1/4" = 1'-0"



2 ROOF PLAN - POWER

0' 2' 4' 8'

1/4" = 1'-0"

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THIRD FLOOR PLAN AND ROOF - POWER

E2.30

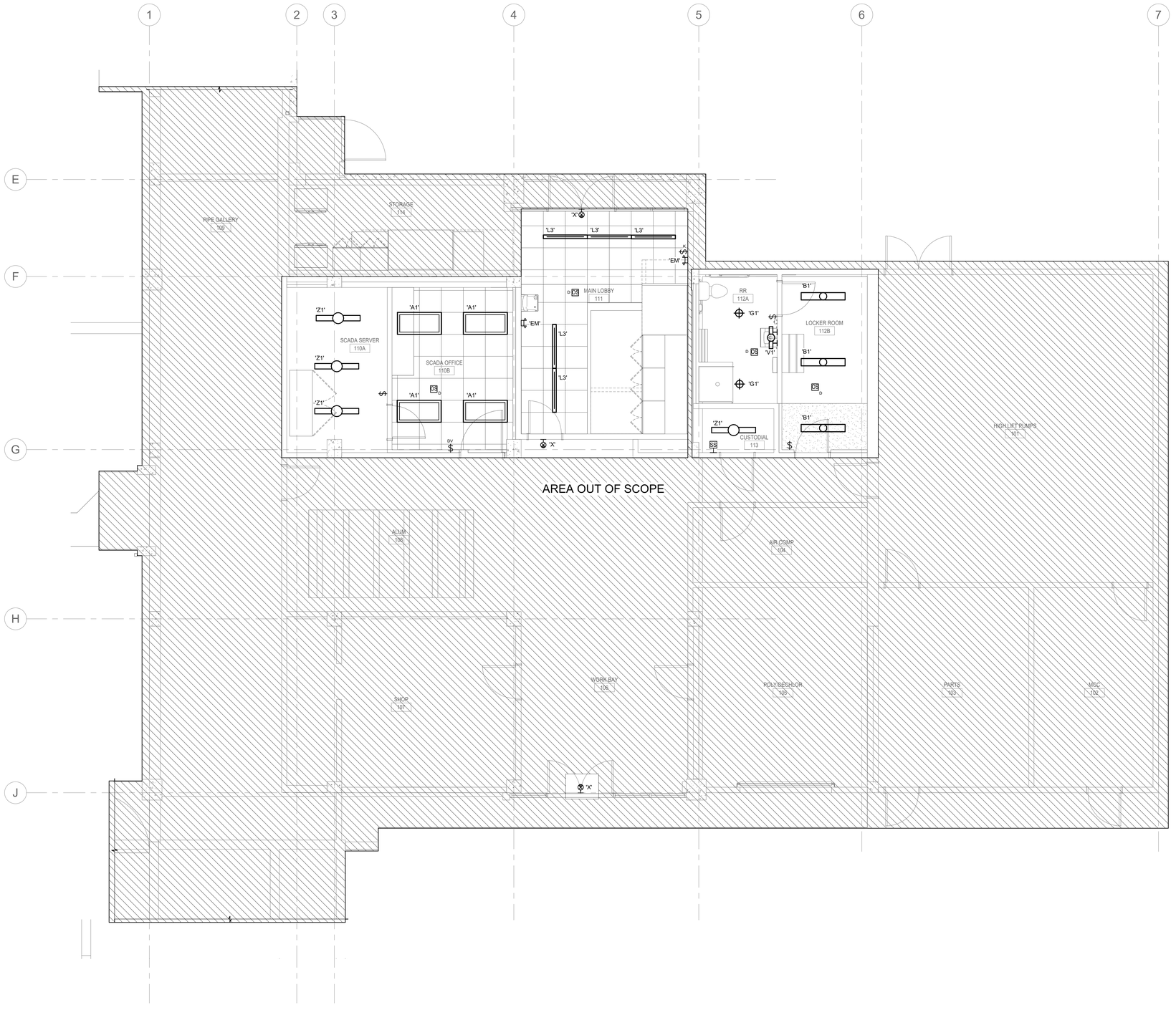
BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE 8/7/2026 1:58:00 PM Autodesk Docs://P3116 Clackamas River Water/P3116_MEPT_R26.rvt

GENERAL SHEET NOTES

A. EXTEND FROM EXISTING CIRCUIT IN SPACE TO NEW LIGHTS.

B. EXTEND UNSWITCHED HOT CIRCUIT IN SPACE TO EXIT SIGNS.



1 FIRST FLOOR PLAN - LIGHTING

0' 2' 4' 8'

1/4" = 1'-0"

ONE INCH EQUALS FULL SCALE 8/7/2026 1:58:01 PM Autodesk Docs://P3116 Clackamas River Water/P3116_MEPT_R26.rvt

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FIRST FLOOR PLAN - LIGHTING

E3.10

BID AND PERMIT SET

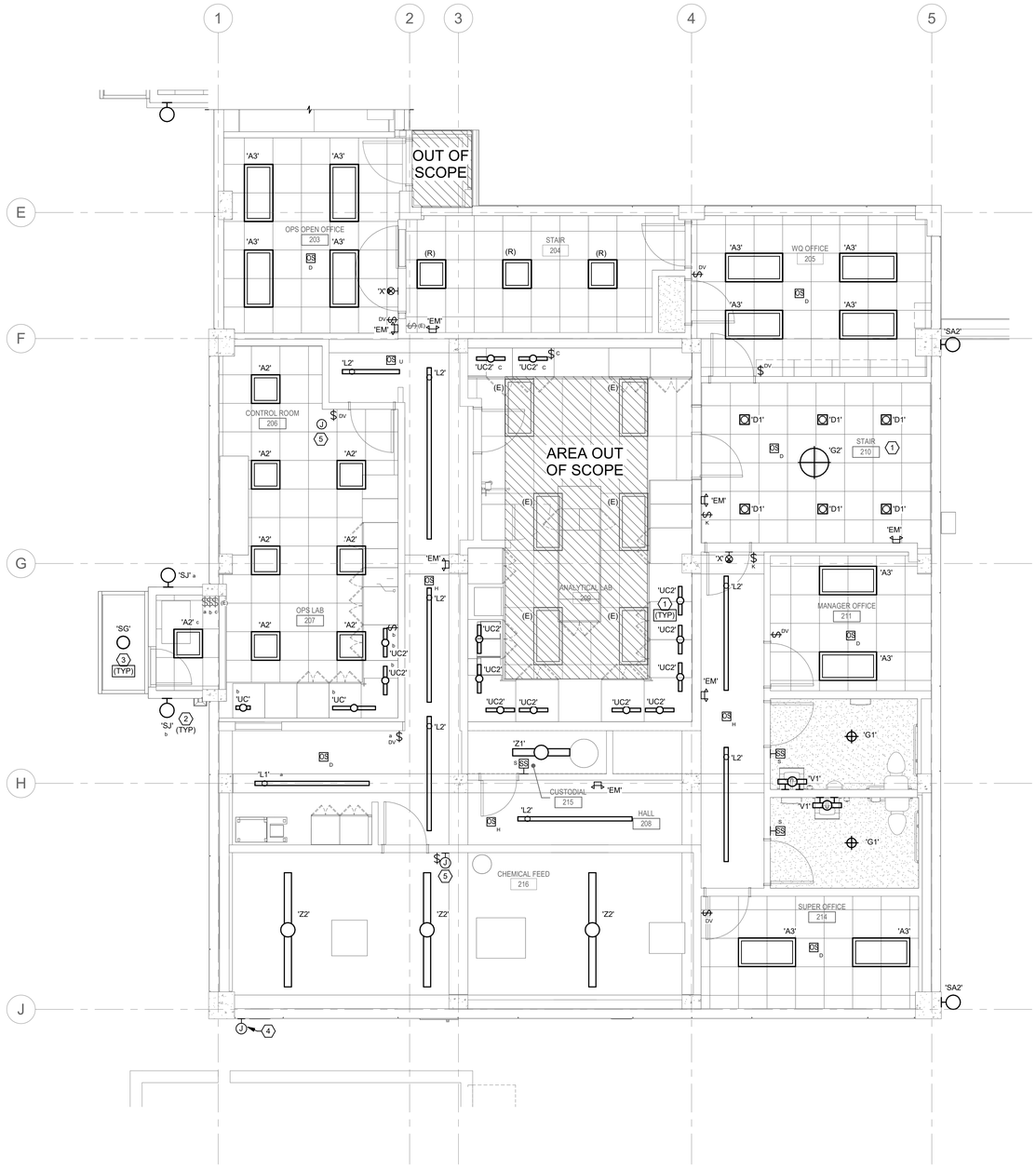
GENERAL SHEET NOTES

A. EXTEND FROM EXISTING CIRCUIT IN SPACE TO NEW LIGHTS.

B. EXTEND UNSWITCHED HOT CIRCUIT IN SPACE TO EXIT SIGNS.

GENERAL SHEET NOTES

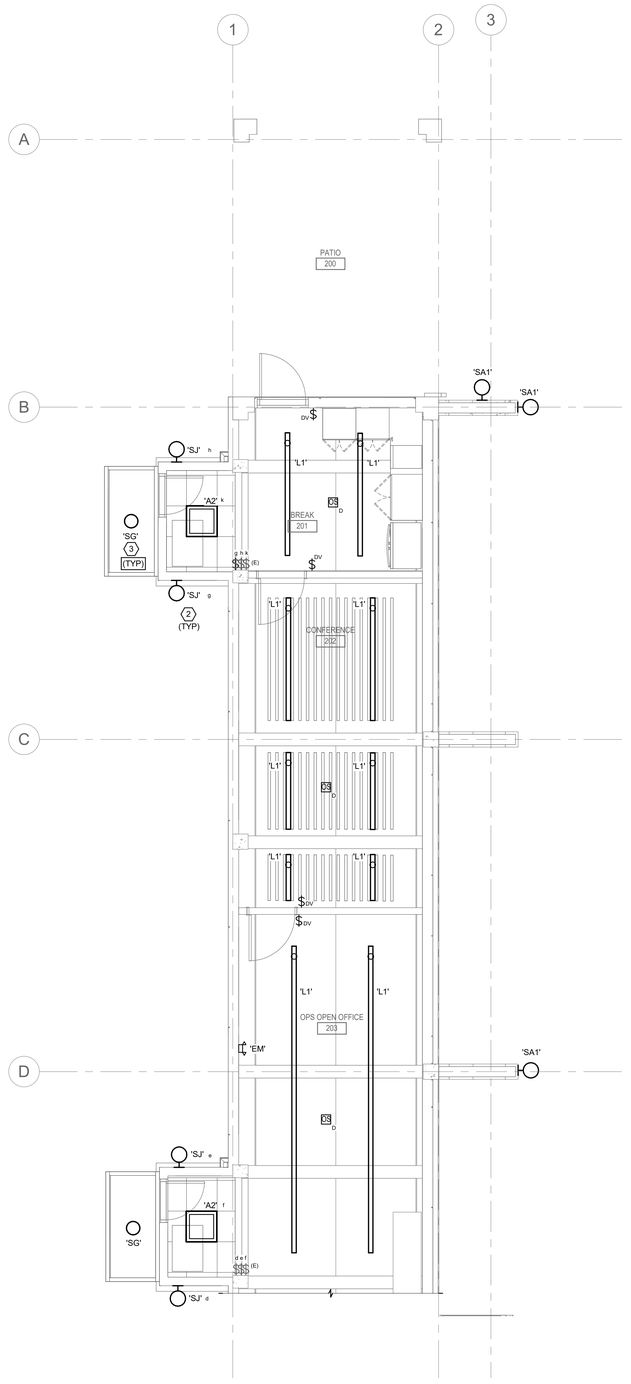
1. EXTEND FROM EXISTING LIGHTING CIRCUIT AND CONTROL IN AREA.
2. CONNECT TO EXISTING FLOOD LIGHTS CIRCUIT PROTECTED DURING DEMO PHASE.
3. EXTEND FROM EXISTING EXTERIOR LIGHTING CIRCUIT AND CONTROLS. PROVIDE SURFACE MOUNTED CONNECTION, PENETRATE WALL AND ROUTE CONDUIT ABOVE CEILING.
4. REINSTALL EXISTING LIGHTING PHOTOCELL. EXTEND / RECONNECT.
5. REINSTALL ALARM LIGHT. EXTEND CONDUIT AND WIRING AS REQUIRED FOR A COMPLETE FUNCTIONAL SYSTEM. COORDINATE WITH OWNER FINAL LOCATION.



1 SECOND FLOOR PLAN - LIGHTING

0' 2' 4' 8'

1/4" = 1'-0"



2 SECOND FLOOR PLAN - CONFERENCE - LIGHTING

0' 2' 4' 8'

1/4" = 1'-0"

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CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

INTERFACE ENGINEERING
PROJECT 2026-0405
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REGISTERED PROFESSIONAL ENGINEER
72777PE
OREGON
JUNE 02, 2020
MARK K. O'LEARY
EXPIRES: 12/31/26

△	DESCRIPTION	DATE:

PROJECT NO.	P-3116-26
DESIGNED:	Author
REVIEWED:	CN
DATE:	08-07-26

SECOND FLOOR PLAN - LIGHTING

E3.20

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE 8/7/2026 1:58:04 PM Autodesk Docs://P3116 Clackamas River Water/P3116_MEPT_R26.rvt

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

SYMBOL	DESCRIPTION	LOCATION	VOLTS	PH	LOAD(VA)	HP	MCA	MOCP	CIRCUIT NUMBER	WIRE / CONDUIT	NOTES
CF-01	CEILING FAN	CONFERENCE 202	120	1	14.4			15		202	1
CF-02	CEILING FAN	OPS OPEN OFFICE 203	120	1	14.4			15		202	1
CU-01	CONDENSING UNIT	PIPE GALLERY 109	208	1	3827.2		23	30	2A-22,24	302	2
CU-02	CONDENSING UNIT	PIPE GALLERY 109	208	1	3827.2		23	30	G-7,9	302	2
CU-03	CONDENSING UNIT	PIPE GALLERY 109	208	1	2229.8		13.4	15	G-13,15	202	2
CU-04	CONDENSING UNIT	MECHANICAL WELL	208	1	1664.0		10	15	F-3,5	202	2
CU-05	CONDENSING UNIT	MECHANICAL WELL	208	1	1664.0		10	15	F-2,4	202	2
EF-01	EXHAUST FAN	MECHANICAL WELL	120	1	528.0	1/6		15	2A-16	202	
EF-02	EXHAUST FAN	RR 212	120	1	16.8			15	2D-28	202	
EF-03	EXHAUST FAN	RR 213	120	1	16.8			15	2D-28	202	
EF-04	EXHAUST FAN	EXTERIOR	120	1	264.0			15	2D-28	202	
EF-05	EXHAUST FAN		277	1	1656.5			15	4C-41	202	
EWH-01	ELECTRIC WALL HEATER	RR 112A	277	1	1000.0			15	4A-49	202	
EWH-02	ELECTRIC WALL HEATER	LOCKER ROOM 112B	277	1	1000.0			15	4A-7	202	
EWH-03	ELECTRIC WALL HEATER	RR 212	277	1	1000.0			15	4B-4	202	
EWH-04	ELECTRIC WALL HEATER	RR 213	277	1	1000.0			15	4B-6	202	
EWH-05	ELECTRIC WALL HEATER	BREAK 201	277	1	1498.6			15	4B-25	202	
FC-01	FAN COIL UNIT	SCADA SERVER 110A	208	1	0.0			15		202	2
FC-02	FAN COIL UNIT	SCADA SERVER 110A	208	1	0.0			15		202	2
FC-03	FAN COIL UNIT	SCADA OFFICE 110B	208	1	0.0			15		202	2
FC-04	FAN COIL UNIT	MANAGER OFFICE 211	208	1	0.0			15		202	2
FC-05	FAN COIL UNIT	SUPER OFFICE 214	208	1	0.0			15		202	
HRV-01	HEAT RECOVERY UNIT	SCADA OFFICE 110B	120	1	19.2			15	2A-16	202	
HRV-02	HEAT RECOVERY UNIT	MANAGER OFFICE 211	120	1	19.2			15	2D-28	202	
HRV-03	HEAT RECOVERY UNIT	SUPER OFFICE 214	120	1	19.2			15	2D-28	202	
HRV-04	HEAT RECOVERY UNIT	CHEMICAL FFED 216	120	1	1171.2		12.2	15	2D-30	202	

GENERAL MECHANICAL EQUIPMENT CONNECTION NOTE:

A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. ACTUAL MANUFACTURER FOR EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR LOADS AND OVER CURRENT PROTECTION REQUIREMENTS PRIOR TO INSTALLATION OF WIRING.

B. MOCP = MAXIMUM OVER CURRENT PROTECTION.
MCA = MINIMUM CIRCUIT AMPACITY

C. PROVIDE DISCONNECTING MEANS FOR EACH ITEM OF EQUIPMENT LISTED IN THE SCHEDULE ABOVE, EXCEPT AS SPECIFICALLY NOTED OTHERWISE IN SCHEDULE NOTES, BELOW.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

1 CIRCUIT TO LIGHTING CIRCUIT IN SPACE.

2 EXTERIOR UNIT PROVIDES POWER TO ASSOCIATED INTERIOR UNIT.

WIRE/CONDUIT SCHEDULE

(none)

202 2 #12 CU, 1 #12 CU GND., IN 3/4" C.

302 2 #10 CU, 1 #10 CU GND., IN 3/4" C.

PLUMBING EQUIPMENT CONNECTION SCHEDULE

SYMBOL	DESCRIPTION	LOCATION	VOLTS	PH	LOAD (VA)	HP	MCA	MOCP	CIRCUIT NUMBER	WIRE / CONDUIT	NOTES
TP-01	TRAP PRIMER	CUSTODIAL 113	120	1	240.0			15		202	1
TP-02	TRAP PRIMER	CUSTODIAL 215	120	1	240.0			15		202	1
WH-1	WATER HEATER	BREAK 201	480	3	19953.2			35	4B-26,28,30	403	

GENERAL PLUMBING EQUIPMENT CONNECTION NOTE:

A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. ACTUAL MANUFACTURER FOR EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH PLUMBING EQUIPMENT SUBMITTALS FOR LOADS AND OVER CURRENT PROTECTION REQUIREMENTS PRIOR TO INSTALLATION OF WIRING.

B. MOCP = MAXIMUM OVER CURRENT PROTECTION.
MCA = MINIMUM CIRCUIT AMPACITY

C. PROVIDE DISCONNECTING MEANS FOR EACH ITEM OF EQUIPMENT LISTED IN THE SCHEDULE ABOVE, EXCEPT AS SPECIFICALLY NOTED OTHERWISE IN SCHEDULE NOTES, BELOW.

PLUMBING EQUIPMENT CONNECTION SCHEDULE NOTES

1 EXTEND FROM EXISTING CONVENIENCE RECEPTACLE CIRCUIT IN SPACE.

2

WIRE/CONDUIT SCHEDULE

202 2 #12 CU, 1 #12 CU GND., IN 3/4" C.

403 3 #8 CU, 1 #10 CU GND., IN 3/4" C.

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Clackamas River Water

INTERFACE ENGINEERING
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REGISTERED PROFESSIONAL ENGINEER
72777PE
OREGON
JUNE 02, 2025
MARK K. O'LEARY
EXPIRES: 12/31/26

△	DESCRIPTION	DATE:

PROJECT NO. P-3116-26
DESIGNED: Author
REVIEWED: CN
DATE: 08-07-26

SCHEDULES - ELECTRICAL

E6.01

BID AND PERMIT SET

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LOAD SUMMARY AT Switchboard 'PP1'

LOAD TYPE	LOAD DESCRIPTION	UNITS	TOTAL CONNECTED LOAD	DEMAND FACTOR	TOTAL DEMAND LOAD
G	General (Non-Continuous)	KVA	8.16	100%	8.16
L	Lighting	KVA	0.00	125%	0.00
R	Receptacles - to 10 KVA	KVA	10.00	100%	10.00
	over 10 KVA	KVA	2.09	50%	1.05
K	Kitchen (Non-Dwelling)	KVA	0.00	100%	0.00
H	Heating	KVA	5.50	100%	5.50
M	Motors	KVA	13.10	100%	13.10
LM	Largest Motor	KVA	3.83	125%	4.79
WH	Water Heater	KVA	19.95	125%	24.94
C	Continuous General Load	KVA	0.00	125%	0.00
	TOTAL LOADS (480V, 3 PHASE):	KVA	62.6		67.5
		AMPS	75.3		81.2

LOAD SUMMARY AT Distribution Panel 'PP2'

LOAD TYPE	LOAD DESCRIPTION	UNITS	TOTAL CONNECTED LOAD	DEMAND FACTOR	TOTAL DEMAND LOAD
G	General (Non-Continuous)	KVA	6.16	100%	6.16
L	Lighting	KVA	0.00	125%	0.00
R	Receptacles - to 10 KVA	KVA	10.00	100%	10.00
	over 10 KVA	KVA	1.73	50%	0.87
K	Kitchen (Non-Dwelling)	KVA	0.00	100%	0.00
H	Heating	KVA	0.00	100%	0.00
M	Motors	KVA	11.44	100%	11.44
LM	Largest Motor	KVA	3.83	125%	4.79
WH	Water Heater	KVA	0.00	125%	0.00
C	Continuous General Load	KVA	0.00	125%	0.00
	TOTAL LOADS (208V, 3 Phase):	KVA	33.2		33.3
		AMPS	92.0		92.3

201x-0xxx

(E)Panel '2A'

120/208V, 3 Ph., 4 W.; 100A Bus with Main Lug Only Flush Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	(E) L - COMPRESSOR ROOM			20/1		A	2	**15/1**	547	M	**(N)EF-01, HRV-01 / (E) TOILET EXH**	16
2	(E) LOADING DOCK & POST CHL ANALYZER			20/1		B		20/1			**(E) SPARE**	17
3	(E) PIPE GALLERY SOUTH ONLY			20/1		C		20/1			(E) OUTLET- H/L ROOM	18
4	(E) L - ENTRY GLOBE & OUTSIDE CLEAR WELL			20/1		A		20/1			(E) L - PIPE GALLERY MIDDLE, SOUTH FAN,	19
5	(E) DECHLOR, MAG METERS, STORAGE RM REC			20/1		B		20/1			(E) ALUM PUMP #1	20
6	(E) R- OUTSIDE SHOP, ALUM PUMP #3 CTRL			20/1		C		20/1			(E) CHLORINE ALARM	21
7	(E) R - WORK RM			20/1		A	2	**30/2**	1,914	M	**(N) CU-01 / (E)SPARE BREAKER**	22
8	(E) R - SAMPLE PUMP, RAW WATER			20/1		B		--	1,914	M	--	23
9	(E) FAILED BREAKER-SEE SEC 27			20/1		C		40/3			(E) MAIN PANEL 2D&2E -OAK LODGE VALVE	24
10	(E) OUTLET POLY MIXER			20/1		A		--			--	25
11	(E) OUTLET - MIKE OFFICE, PIPE GALLERY			20/1		B		--			--	26
12	(E) R- POLY ROOM			20/1		C		20/1			(E) TECH OFFICE - SOUTH WALL	27
13	(E) CHLORINE RM EMERG LIGHT			20/1		A		20/1			(E) ALUM PUMP #2	28
14	**(N)R-RR,LOCKR RM /(E) R-TOILET**	360	R	20/1	1	B		40/2			(E) WATER HEATER	29
15	(E) OUTLET COMPRESSOR CONTROL			20/1		C		--			--	30

Total Connected Load:	Ph. A	2,461	VA	20	Amps	Panel Connected Load:	4.7 KVA 13.1 Amps
Total Connected Load:	Ph. B	2,274	VA	19	Amps	Sub-Fed Connected Load:	0.0 KVA 0.0 Amps
Total Connected Load:	Ph. C	0	VA	0	Amps	**Total Demand Load:**	5.7 **KVA** 15.8 **Amps**

Notes:
1. REUSE EXISTING CIRCUIT BREAKER.
2. PROVIDE NEW CIRCUIT BRAKER MATCHING EXISTING PANEL AIC RATING.
3.
4.
5.

Accessories:

201x-0xxx

(E)Panel '2B'

120/208V, 3 Ph., 4 W.; 225A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	(E) SOUTH BASIN PUMP RECEPT			20/2		A		20/1			(E) SPARE TO END OF COMBINED FILTER EFFLUENT	22
2	(E) INFLUENT FLOC GATE MOTOR			--		B		20/1			(E) ANALYZER PUMP	23
3	**(N)PRINTER, RECEP /(X) RR/DATA & SECURITY MONITORS**	1,000	G	20/1	1	C		20/1			(E) RAW WATER SAMPLE PUMP	24
4	(E) PHOTOCELL/TL CONTACT			20/1		A		20/1			(E) FLASH MIXER CONTROL POWER	25
5	(E) LIGHTS			30/2		B		30/2			(E) LAB HOT WATER	26
6	**(N)R-OPS LAB WIREMOLD /(E) OUTLETS - PC LAB**	1,080	R	20/1	1,3	C		--			--	27
7	**(N)R-OPS LAB WIREMOLD /(E) OUTLET BEHIND PC LAB**	1,260	R	20/1	1,3	A	1	20/1	394	R	**(N)R- RR, EF-01,EF-02 / (X)PRE&POST CHLORINTR UPSTAIR CHLORINE ALARM**	28
8	(E) LIGHTS CHLORINATOR RM			20/1		B	1	20/1	720	R	**(N)R-OPEN OFF OPS /(X) R-PC LAB WIREMOLD**	29
9	(E) LIGHT- CEILING BEHIND PC LAB			20/1		C		20/1			(E) HEATER - UPSTAIRS RESTROOM	30
10	(E) OUTLETS UNDER THERMOSTAT			20/1		A		20/1			(E) RAW WATER PULSE 'RIS'/MATHER LEVEL &CTRL PUMP, PUMP CTRL PANEL	31
11	**(E) OUTLET STRIP IN QC LAB**			20/1		B		20/1			**(E) LIGHTS- QC LAB UNDER COUNTER**	32
12	(E) PANEL P1			70/3		C		20/1			**(E) LIGHTS- QC LAB UNDER COUNTER**	33
13	--			--		A		20/1			(E) BACKUP RAW WATER TRANSMITTER	34
14	--			--		B		20/1			(E) CHLORINE HEATERS	35
15	(E) LAB FUME HOOD			20/1		C		20/1			(E) UPSTAIRS EMERGENCY LIGHTS	36
16	(E) LAB FUME HOOD			20/1		A		20/1			(E) CONTROL - CHEMICAL FEEDERS	37
17	(E) FIBER VIBRATOR CARBON			20/1		B	1	20/1	720	R	**(N)R-SUPER OFFICE / (E)SPARE**	38
18	(E) FIBER VIBRATOR SODA ASH			20/1		C		40/3			(E) AUTOCALVE IN QC LAB	39
19	(E) CHLORINATOR EXHAUST			20/1		A		--			--	40
20	(E) MIXER SAMPLE PUMP			20/1		B		--			--	41
21	(E) PARTICLE COUNTERS			20/1		C		20/1			(E) NITRO BASIN LIGHTS, POWER GATE	42

Total Connected Load:	Ph. A	2,486	VA	21	Amps	Panel Connected Load:	5.2 KVA 14.4 Amps
Total Connected Load:	Ph. B	4,272	VA	36	Amps	Sub-Fed Connected Load:	5.7 KVA 15.8 Amps
Total Connected Load:	Ph. C	4,104	VA	34	Amps	**Total Demand Load:**	11.3 **KVA** 31.3 **Amps**

Notes:
1. REUSE EXISTING CIRCUIT BREAKER.
2. REUSE EXISTING CIRCUIT.
3. PROVIDE HANDLE TIE.
4.
5.

Accessories:

201x-0xxx

(E)Panel '4A'

277/480V, 3 Ph., 4 W.; 200A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	(E) SPACE					A					(E) SPACE	2
3	(E) SPACE					B					(E) SPACE	4
5	(E) SPACE					C					(E) SPACE	6
7	**(N)EWH-02 / (E) SPARE**	1,000	H	**15/1**	1,2	A		20/1			(E) SHOP A/C	8
9	(E) SPARE			20/1		B		20/1			(E) PUMP RUN LIGHTS	10
11	(E) SPARE			20/1		C		20/1			(E) PUMP RUN LIGHTS	12
13	(E) SPARE			40/1		A		20/1			(E) FLOC RUN LIGHTS	14
15	(E) SPARE			40/1		B		20/1			(E) WORK AREA LIGHTS	16
17	(E) SPARE			20/2		C		20/1			(E) SPARE	18
19	(E) SPARE			--		A		20/3			(E) SHOP ENTRY HEAT	20
21	(E) HEAT VALVE PIT #2			20/2		B		--			--	22
23	--			--		C		--			--	24
25	(E) HEAT PIPE GALLERY			20/3		A		20/3			(E) PIPE GALLERY HEAT	26
27	--			--		B		--			--	28
29	--			--		C		--			--	30
31	(E) OAK VALVE MOTOR PIT #1			20/3		A		20/3			(E) PIPE GALLERY HEAT	32
33	--			--		B		--			--	34
35	--			--		C		--			--	36
37	(E) PLANT COMPRESSOR			20/3		A		20/3			(E) PLANT WATER BOOSTER PUMP	38
39	--			--		B		--			--	40
41	--			--		C		--			--	42
43	(E) SPARE			20/3		A		20/3			(E) CHLORINE STORAGE HEAT	44
45	--			--		B		--			--	46
47	--			--		C		--			--	48
49	**(N) EWH-01 / (X) TOILET HEAT**	1,000	H	**15/1**	1,2	A		20/3			(E) DISCONNECTED IN RM 105 CEILING	50
51	(E) ENTRY HEAT			20/1		B		--			--	52
53	(E) ENTRY HEAT			20/1		C		--			--	54

Total Connected Load:	Ph. A	2,000	VA	7	Amps	Panel Connected Load:	2.0 KVA 2.4 Amps
Total Connected Load:	Ph. B	0	VA	0	Amps	Sub-Fed Connected Load:	0.0 KVA 0.0 Amps
Total Connected Load:	Ph. C	0	VA	0	Amps	**Total Demand Load:**	2.0 **KVA** 2.4 **Amps**

Notes:
1. PROVIDE NEW CIRCUIT BRAKER MATCHING EXISTING PANEL AIC RATING.
2. SALVAGE EXISTING BREAKER.
3.
4.
5.

Accessories:

201x-0xxx

(E)Panel '4B'

277/480V, 3 Ph., 4 W.; 125A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	(E) LIGHTS CHEM FEEDER RM			20/1		A		20/1			(E) LIGHTS EAST LOT - FRONT	2
3	(E) LTS -2ND FLR LAB, OFFICE, CONTROL			20/1		B	1,2	**15/1**	1,000	H	**(N)EWH-03 / (E) SPARE**	4
5	(E) LIGHTS PARKING LOT			20/1		C	1,2	**15/1**	1,000	H	**(N)EWH-04 / (E) SPARE**	6
7	(E) HEATER CHEM FEED RM			20/3		A		20/3			(E) ROOF HVAC	8
9	--			--		B		--			--	10
11	--			--		C		--			--	12
13	(E) LIME FEED MOTOR			20/3		A		15/3			(E) SPARE	14
15	--			--		B		--			--	16
17	--			--		C		--			--	18
19	(E) CARBON FEED MOTOR			20/3		A		20/3			(E) ROOF HVAC	20
21	--			--		B		--			--	22
23	--			--		C		--			--	24
25	**(N)EWH-05 / (E) SPARE**	1,500	H	**15/1**	1,2	A	1,2	**35/3**	6,651	WH	**(N)WH-1 / (E) SPARE**	26
27	(E) SPARE			20/2		B		--	6,651	WH	--	28
29	--			--		C		--	6,651	WH	--	30

Total Connected Load:	Ph. A	8,151	VA	29	Amps	Panel Connected Load:	23.5 KVA 28.2 Amps
Total Connected Load:	Ph. B	7,651	VA	28	Amps	Sub-Fed Connected Load:	1.7 KVA 2.0 Amps
Total Connected Load:	Ph. C	9,307	VA	34	Amps	**Total Demand Load:**	30.5 **KVA** 36.7 **Amps**

Notes:
1. PROVIDE NEW CIRCUIT BRAKER MATCHING EXISTING PANEL AIC RATING.
2. SALVAGE EXISTING BREAKER.
3.
4.
5.

Accessories:

201x-0xxx

(E)Panel '2C'

120/208V, 3 Ph., 4 W.; 225A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	(E) LIGHTS CARBON STORAGE			20/1		A		20/1			(E) DRYING OVEN	6
2	(E) PLUGS LIME STORAGE			20/1		B		20/1			(E) SPEED CONTROL ACH PUMP 2	7
3	(E) PLUGS LIME STORAGE			20/1		C		20/1			(E) TANK LEEL SENSORS	8
4	(E) STAIRWAY EMERGENCY LIGHT			20/1		A		20/1			(E) SPEED CONTROL ACH PUMP	9
5	(E) DRYING OVEN			20/1		B		20/1			(E) GFCI @ COLUMN	10
16	(E) POLY EXHAUST FAN			15/1		C		50/2			(E)	11
17	(E) POLY CONTROL CABINET			15/1		A		--			--	12
18	(E) POLY PUMP #1 CONTROL			15/1		B		100/3	2,832	S	(E) FEED TO PANEL F	13
19	(E) POLY PUMP #2 CONTROL			15/1		C		--	2,024	S	--	14
20	(E) POLY - WATER HEATER			30/2		A		--	832	S	--	15
21	--			--		B					(E) SPACE	22
23	(E) SPACE					C					(E) SPACE	24
25	(E) SPACE					A					(E) SPACE	26
27	(E) SPACE					B					(E) SPACE	28
29	(E) SPACE					C					(E) SPACE	30
31	(E) SPACE					A					(E) SPACE	32
33	(E) SPACE					B					(E) SPACE	34
35	(E) SPACE					C					(E) SPACE	36
37	(E) SPACE					A					(E) SPACE	38
39	(E) SPACE					B					(E) SPACE	40
41	(E) SPACE					C					(E) SPACE	42

Total Connected Load:	Ph. A	832	VA	7	Amps	Panel Connected Load:	0.0 KVA 0.0 Amps
Total Connected Load:	Ph. B	2,832	VA	24	Amps	Sub-Fed Connected Load:	5.7 KVA 15.8 Amps
Total Connected Load:	Ph. C	2,024	VA	17	Amps	**Total Demand Load:**	6.1 **KVA** 16.9 **Amps**

Notes:
1.
2.
3.
4.
5.

Accessories:

201x-0xxx

(E)Panel '2D'

120/208V, 3 Ph., 4 W.; 200A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	**(N)WQ OFFICE / (X) QC LAB OFFICE**	1,080	R	20/1	1	A	1	20/1	720	R	**(M)R-OPEN OFFICE OPS /(X)VAULTED HALL RECEPT**	2
3	**(N)R-CTRL RM 206 / (X) WHITE ONES UNDER CTRL DESK**	540	R	20/1	1	B	1	20/1	540	R	**(M)R-OPEN OFFICE OPS /(X)VAULTED HALL RECEPT**	4
5	(E) FILTER #3 AND #4			20/1		C		20/1			(E) CONTROL PANEL	6
7	(E) FILTER #3 AND #4			20/1		A		20/1			(E) PUMP CONTROL PANEL	8
9	(E) FILTER #5 AND #6			20/1		B		20/1			(E) CONTROL PANEL PULOT FILTERS	10
11	(E) ROOF HVAC			20/1		C		20/1			(E) PIPE GALLERY FILTERS S&6	12
13	(E) EFFLUENT, INFLUENT METER VAULT- L&R			20/1		A		20/1			(E) FILTER 1 AND 2 FLOODS & ALCOVE	14
15	(E) FILTER 5 AND 6 GALLERY			20/1		B		20/1			(E) FILTER 3 AND 4 FLOODS & ALCOVE	16
17	**(N) R-MNGR OFFICE / (X) PROCESS CTRL LAB - LTS & RECEPT**	720	R	20/1	1	C		20/1			(E) FILTER 5 AND 6 FLOODS & ALCOVE	18
19	**(N) LIGHTS, CF-01,CF-02 /(X) VAULTED HALL RM LIGHTS**	30	M	20/1	1	A		20/1			(E) PIPE	20
21	**(N) R-BREAK RM /(X) VAULTED HALL RM LIGHTS**	360	R	20/1		B	2,3	**20/1**	800	G	**(N)FRIDGE / (X)VAULTED HALL**	22
23	**(N)R-CONF RM / (X)VAULTED RM LIGHTS**	1,080	R	20/1	1	C		20/2			(E) EF2 NORTH PUPE GALLERY	24
25	**(N)R-EXTERIOR / (X) PROCESS CTRL LAB**	180	R	20/1		A		--			--	26
27	(E) CENTRIFUGE RECEPTACLE			20/1		B	2,3	**15/1**	336	M	**(N)HRV-02,HRV-03,EF-02,EF-03, EF-04 / (E) SPARE**	28
29	**(N) R-BREAK RM / (X) PROCESS CTRL LAB - COUNTER PLUG STRIP**	360	R	20/1	1	C	2,3	**15/1**	1,171	M	**(N)HRV-04 / (E) SPARE**	30

Total Connected Load:	Ph. A	2,010	VA	17	Amps	Panel Connected Load:	7.9 KVA 22.0 Amps
Total Connected Load:	Ph. B	2,576	VA	21	Amps	Sub-Fed Connected Load:	0.0 KVA 0.0 Amps
Total Connected Load:	Ph. C	3,331	VA	28	Amps	**Total Demand Load:**	8.2 **KVA** 22.8 **Amps**

Notes:
1. REUSE EXISTING CIRCUIT BREAKER.
2. PROVIDE NEW GFCI CIRCUIT BRAKER MATCHING EXISTING PANEL AIC RATING.
3. SALVAGE EXISTING BREAKER.
4.
5.

Accessories:

201x-0xxx

(E)Panel '4C'

277/480V, 3 Ph., 4 W.; 250A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	(E) LIGHTS LIME STORAGE			20/1		A		20/1			(E) SPARE	2
3	(E) SPARE			20/1		B		20/1			(E) SPARE	4
5	(E) SPACE					C					(E) SPACE	6
7	(E) SW HEATER			20/3		A		20/3			(E) SE HEATER	8
9	--			--		B		--			--	10
11	--			--		C		--			--	12
13	(E) HEAT NORTH CHEM RM			20/3		A		20/3			(E) SODA ASH #1	14
15	--			--		B		--			--	16
17	--			--		C		--			--	18
19	(E) SODA ASH #2			20/3		A		20/3			(E) ACTIVATION CARBON	20
21	--			--		B		--			--	22
23	--			--		C		--			--	24
25	(E) SPARE			20/3		A		20/3			(E) SPARE	26
27	--			--		B		--			--	28
29	--			--		C		--			--	30
31	(E) SPARE			20/3		A		15/3			(E) CRANE	32
33	--			--		B		--			--	34
35	--			--		C		--			--	36
37	(E) SPARE			20/2		A		20/2			(E) SPARE	38
39	--			--		B		--			--	40
41	**(N)EF-05 / (E) SPACE**	1,656	M	**15/1**	1	C					(E) SPACE	42

Total Connected Load:	Ph. A	0	VA	0	Amps	Panel Connected Load:	1.7 KVA 2.0 Amps
Total Connected Load:	Ph. B	0	VA	0	Amps	Sub-Fed Connected Load:	0.0 KVA 0.0 Amps
Total Connected Load:	Ph. C	1,656	VA	6	Amps	**Total Demand Load:**	2.1 **KVA** 2.5 **Amps**

Notes:
1. PROVIDE NEW CIRCUIT BRAKER MATCHING EXISTING PANEL AIC RATING.
2.
3.
4.
5.

Accessories:

201x-0xxx

(E)Panel '4E'

277/480V, 3 Ph., 4 W.; 125A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	(E) SPACE					A		30/2	1,160	S	(E) TRANSFORMER PANEL 2E	2
3	(E) SPACE					B		--	1,200	S	--	4
5	(E) SPACE					C		30/3			(E) AUMA VALVE	6
7	(E) SPACE					A		--			--	8
9	(E) SPACE					B		--			--	10
11	(E) SPACE					C					(E) SPACE	12
13	(E) SPACE					A					(E) SPACE	14
15	(E) SPACE					B					(E) SPACE	16
17	(E) SPACE					C					(E) SPACE	18

Total Connected Load:	Ph. A	1,160	VA	4	Amps	Panel Connected Load:	0.0 KVA 0.0 Amps
Total Connected Load:	Ph. B	1,200	VA	4	Amps	Sub-Fed Connected Load:	2.4 KVA 2.8 Amps
Total Connected Load:	Ph. C	0	VA	0	Amps	**Total Demand Load:**	2.4 **KVA** 2.8 **Amps**

Accessories:

201x-0xxx

(E)Panel '2E'

120/208V, 1Ph, 3W.; 100A Bus with Main Lug Only Surface Mounted Load Center

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	**(E) R- ORANGE GEN BACKUP SYSTEM**	360	R	20/1	1	A		20/1			(E) ANNUNCIATOR CTRL PANEL	2
3	(E) L- CONTROL ROOM			20/1		C		20/1			(E) Q.C. REFRIGERATOR	4
5	(E) PUMP CONTROL PANEL			20/1		A	1	20/1	800	G	**(N)LAB COOLER / (E) SPARE**	6
7	(E) SPACE					C	1	20/1	1,200	G	**(N)LAB FREEZER (X) WIREMOLD OUTLETS**	8
9	(E) SPACE					A		20/1			(E) OUTLET/FEED RM/ STAIRS	10
11	(E) SPACE					C		20/1			(E) GFI OUTLET LAB	12
13	(E) SPACE					A		20/1			(E) OUTLETS LAB	14
15	(E) SPACE					C		20/1			(E) OUTLETS LAB	16
17	(E) SPACE					A					(E) SPACE	18

Connected Load:	Ph. A	1,160	VA	10	Amps	Panel Connected Load:	2.4 KVA 11.3 Amps
						Sub-Fed Connected Load:	0.0 KVA 0.0 Amps
Connected Load:	Ph. C	1,200	VA	10	Amps	**Total Demand Load:**	2.4 **KVA** 11.3 **Amps**

Notes:
1. REUSE EXISTING CIRCUIT BREAKER.
2.
3.
4.
5.

Accessories:

201x-0xxx

(E)Panel 'F'

120/208V, 3 Ph., 4 W.; 100A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	**(N)SPARE / (X) FIRE ALARM MODEM**			20/1		A	1,2	**15/2**	832	M	**(N)CU-05 / (X) SPLIT AC UNIT**	2
3	**(N)CU-04 / (X) AC SPLIT**	832	M	**15/2**	1,2	B		--	832	M	--	4
5	--	832	M	--		C		20/2			(E) LIGHTS + PLUGS	6
7	**(N)DISHWASHER BREAK RM/ (E)SPACE**	1,000	G	**20/1**	2,3	A		--			--	8
9	(E) SPACE					B		20/1			(E) SODA ASH #1	10
11	(E) SPACE					C		20/1			**(N)SPARE/ (X) FIRE PANEL**	12
13	(E) SPACE					A	2,3	**20/1**	1,000	G	**(N)LAB DISWASHER / (X) KITCHEN STOVE**	14
15	(E) SPACE					B	2,3	**20/1**	360	R	**(N)R-LAB TABLE RECEP / (X) KITCHEN STOVE**	16
17	(E) SPACE					C		20/1			(E) TOASTER EXHAUST	18
19	(E) SPACE					A		20/1			(E) SODA ASH #2	20
21	(E) SPACE					B					(E) SPACE	22
23	(E) SPACE					C					(E) SPACE	24
25	(E) SPACE					A					(E) SPACE	26
27	(E) SPACE					B					(E) SPACE	28
29	(E) SPACE					C					(E) SPACE	30

Total Connected Load:	Ph. A	2,832	VA	24	Amps	Panel Connected Load:	5.7 KVA 15.8 Amps
Total Connected Load:	Ph. B	2,024	VA	17	Amps	Sub-Fed Connected Load:	0.0 KVA 0.0 Amps
Total Connected Load:	Ph. C	832	VA	7	Amps	**Total Demand Load:**	6.1 **KVA** 16.9 **Amps**

Notes:
1. PROVIDE NEW CIRCUIT BRAKER MATCHING EXISTING PANEL AIC RATING.
2. SALVAGE EXISTING BREAKER.
3. PROVIDE GFCI TYPE BREAKER.
4.
5.

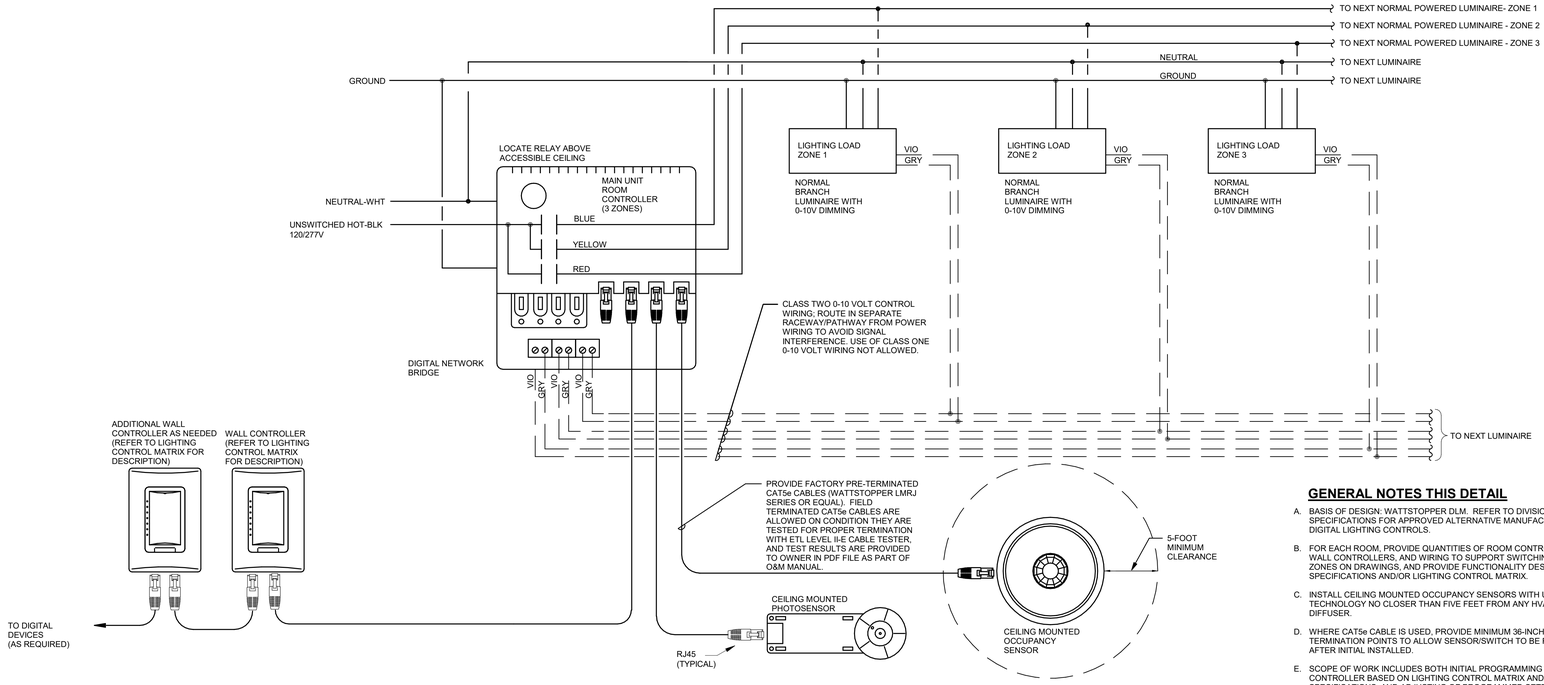
Accessories:

201x-0xxx

(E)Panel 'G'

120/208V, 3 Ph., 4 W.; 100A Bus with Main Lug Only Flush Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	(E) AC PULG			20/2		A	1	20/1	900	R	**(N) R- SCADA OFFICE**	2
3	--			--		B	1	20/1	1,000	G	**(N) SECURITY RACK**	4
5	(E) WHEEL CHAIR LIFT			20/1		C	1	20/1	360	G	**(R) FA PANEL**	6
7	**(N)CU-02 /(E) HVAC SHOP OFFICE**	1,914	M	**30/2**	2,3	A		20/1			(E) SMALL EXH FAN	8
9	--	1,914	M	--		B		20/1			(E) BACKWASH CONTROL POWER	10
11	(E) HIGH LIFT ELECT RM OUTLETS			20/1		C		20/1			(E) PUMP #1 CONTROL POWER	12
13	**(N)CU-03 / (E) SPARE**	1,115	M	**15/2**	2,3	A		15/2			(E) GDO	14
15	--	1,115	M	--		B		--			--	16
17	(E) AIR DRY			20/1		C		20/1			(E) PUMP #2 CONTROL POWER	18
19	(E) 2 WATER HEAT			20/1		A		15/1			(E) LOAD	20
21	(E) EYE WASH			20/1		B		15/1			(E) RM 103 RACK	22
23	(E) POLY RM NORTH RECEPT			20/1		C	2	**20/2**	500	G	**(N) SCADA RACK**	24
25	(E) POLY RM NORTH RECEPT			20/1		A		--	500	G	--	26
27	(E) POLY RM EAST RECEPT			20/1		B	1,



GENERAL NOTES THIS DETAIL

A. BASIS OF DESIGN: WATTSTOPPER DLM. REFER TO DIVISION 26 SPECIFICATIONS FOR APPROVED ALTERNATIVE MANUFACTURERS FOR DIGITAL LIGHTING CONTROLS.

B. FOR EACH ROOM, PROVIDE QUANTITIES OF ROOM CONTROLLERS, SENSORS, WALL CONTROLLERS, AND WIRING TO SUPPORT SWITCHING AND DIMMING ZONES ON DRAWINGS, AND PROVIDE FUNCTIONALITY DESCRIBED IN SPECIFICATIONS AND/OR LIGHTING CONTROL MATRIX.

C. INSTALL CEILING MOUNTED OCCUPANCY SENSORS WITH ULTRASONIC TECHNOLOGY NO CLOSER THAN FIVE FEET FROM ANY HVAC SUPPLY AIR DIFFUSER.

D. WHERE CAT5e CABLE IS USED, PROVIDE MINIMUM 36-INCH SLACK BETWEEN TERMINATION POINTS TO ALLOW SENSOR/SWITCH TO BE REPOSITIONED AFTER INITIAL INSTALLED.

E. SCOPE OF WORK INCLUDES BOTH INITIAL PROGRAMMING OF ROOM CONTROLLER BASED ON LIGHTING CONTROL MATRIX AND/OR SPECIFICATIONS, AND ADJUSTING OF PROGRAMMED SETPOINTS AND ROOM SCENES BASED ON OWNER FEEDBACK AT SUBSTANTIAL COMPLETION. INSTALLATION WITHOUT OWNER SIGN-OFF ON PROGRAMMED SETTINGS IS NOT COMPLETE.

F. CONTROLLERS AND DEVICES LOCATED IN PLENUM SPACES MUST BE UL 2043 LISTED; USE PLENUM RATED WIRING WHERE ROUTING IS EXPOSED IN PLENUM SPACES.

1 TYPICAL DIGITAL ROOM CONTROLLER WIRING DIAGRAM - UP TO 3 ZONES

NO SCALE

ZCS
524 Main Street, Suite 2
Oregon City, OR 97045
503.659.2205

CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

INTERFACE ENGINEERING
PROJECT 2026-0405
CONTACT Cleo Naranjo
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

REGISTERED PROFESSIONAL ENGINEER
72777PE
OREGON
JUNE 02, 2010
MARK K. O'LEARY
EXPIRES: 12/31/26

△	DESCRIPTION	DATE:

PROJECT NO.	P-3116-26
DESIGNED:	Author
REVIEWED:	CN
DATE:	08-07-26

DETAILS - ELECTRICAL

E7.01

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE 8/7/2026 1:58:07 PM Autodesk Docs://P3116 Clackamas River Water/P3116_MEPT_R26.rvt

TECHNOLOGY SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AV	AUDIO VISUAL
CAT	CATEGORY CABLE
CCTV	CLOSED CIRCUIT TELEVISION
COM	COMMUNICATION
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
(X)	DEMOLISH
(E)	EXISTING
LC	FIBER OPTIC CONNECTOR
FDU	FIBER OPTIC DISTRIBUTION UNIT
FT	FOOT, FEET
GND	GROUND
IN	INCH, INCHES
ICT	INFORMATION AND COMMUNICATIONS TECHNOLOGY
IT	INFORMATION TECHNOLOGY
ISP	INSIDE PLANT
LAN	LOCAL AREA NETWORK
LV	LOW VOLTAGE
NTS	NOT TO SCALE
OSP	OUTSIDE PLANT
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PTZ	PAN, TILT, ZOOM
PBB	PRIMARY BONDING BUSBAR
QTY	QUANTITY
RU	RACK UNIT
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TBC	TELECOMMUNICATIONS BONDING CONDUCTOR
TEBC	TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR
TR	TELECOMMUNICATIONS ROOM
TYP	TYPICAL
UPS	UNINTERRUPTABLE POWER SUPPLY
WP	WEATHERPROOF
WAN	WIDE AREA NETWORK
WAP	WIRELESS ACCESS POINT
WIFI	WIRELESS FIDELITY

AUDIO/VIDEO

FLOOR BOX HDMI OUTLET - HDMI OUTLET WITH SINGLE-GANG ADAPTER PLATE AND 1-1/2-INCH CONDUIT STUBBED TO AV IN-WALL BOX BEHIND MONITOR OR ACCESSIBLE CEILING SPACE (SEE ELECTRICAL FLOOR BOX SCHEDULE FOR FLOOR BOX TYPE)

HDMI OUTLET - HDMI OUTLET IN AV IN-WALL BOX WITH SINGLE-GANG ADAPTER PLATE AND 1-1/2-INCH CONDUIT TO FLOOR BOX OR ACCESSIBLE CEILING SPACE

ELECTRONIC SECURITY

CARD READER (RACEWAY ONLY) - 3/4-INCH CONDUIT WITH PROTECTIVE BUSHING TO ACCESSIBLE CEILING SPACE

M = MULLION MOUNT K = CARD READER WITH KEYPAD

SURVEILLANCE CAMERA OUTLET - ONE (1) CAT6A UTP CABLE WITH 5SQ BOX AND SINGLE GANG ADAPTER RING WITH 1-INCH CONDUIT AND PROTECTIVE BUSHING STUBBED TO ACCESSIBLE CEILING SPACE

PATHWAYS

3/4" FIRE RATED PLYWOOD BACKBOARD

CONDUIT AND CONDUCTORS ABOVE GRADE

CONDUIT AND CONDUCTORS BELOW GRADE OR SLAB

CONDUIT DOWN

CONDUIT SLEEVE

CONDUIT UP

CONDUIT/WIRING CONTINUATION

CABLE RUNWAY, WIDTH AS INDICATED

REFERENCE SYMBOLS

DETAIL NUMBER AND SHEET LOCATION

KEYED NOTES

SECTION NUMBER AND SHEET LOCATION

TELECOMMUNICATIONS

FLOOR BOX WITH TELECOM OUTLET - FOUR (4) INDOOR/OUTDOOR RATED CAT6A UTP CABLES AND FACEPLATE WITH CAT6A MODULAR CONNECTORS AND 1-1/4-INCH IN-SLAB EMT CONDUIT WITH PROTECTIVE BUSHING STUBBED TO ACCESSIBLE CEILING SPACE (SEE ELECTRICAL FLOOR BOX SCHEDULE FOR FLOOR BOX TYPE)

TELECOM OUTLET - FOUR (4) CAT6A UTP CABLES ROUTED TO 5SQ BOX WITH SINGLE-GANG PLASTER RING AND FLUSH-MOUNTED FACEPLATE WITH CAT6A MODULAR CONNECTORS AND 1-1/4-INCH EMT CONDUIT WITH PROTECTIVE BUSHING STUBBED TO ACCESSIBLE CEILING SPACE

TELECOM OUTLET - TWO (2) CAT6A UTP CABLES ROUTED TO 5SQ BOX WITH SINGLE-GANG PLASTER RING AND FLUSH-MOUNTED FACEPLATE WITH CAT6A MODULAR CONNECTORS AND 1-1/4-INCH EMT CONDUIT WITH PROTECTIVE BUSHING STUBBED TO ACCESSIBLE CEILING SPACE

WAP CEILING OUTLET - ONE (1) CAT6A UTP CABLE ROUTED TO 5SQ BOX WITH SINGLE-GANG PLASTER RING AND FLUSH-MOUNTED FACEPLATE WITH CAT6A MODULAR CONNECTOR AND 1-1/4-INCH EMT CONDUIT WITH PROTECTIVE BUSHING STUBBED TO ACCESSIBLE CEILING SPACE

TECHNOLOGY RESPONSIBILITY MATRIX

	OFOI	OFCI	CFCI	CFOI
COMMUNICATIONS - TELECOM SYSTEMS:				
ROUGH-IN, PATHWAYS AND SLEEVES			●	
CONDUITS TO TELECOM ROOMS			●	
CABLE TRAY			●	
PLYWOOD BACKBOARDS			●	
EQUIPMENT RACKS AND ENCLOSURES			●	
CABLE RUNWAY			●	
OPTICAL FIBER BACKBONE CABLING	●			
COPPER HORIZONTAL CABLING			●	
FIBER TERMINATION PANELS	●			
COPPER PATCH PANELS			●	
WORK AREA OUTLETS AND CONNECTORS			●	
RACK-SIDE PATCH CORDS			●	
WORKSTATION-SIDE PATCH CORDS			●	
DATA COMMUNICATIONS SWITCHES AND ROUTING EQUIPMENT	●			
DATA COMMUNICATIONS WIRELESS ACCESS POINTS		●		
GROUNDING & BONDING			●	
COMMUNICATIONS - AUDIO-VISUAL SYSTEMS:				
	OFOI	**OFCI**	**CFCI**	**CFOI**
ROUGH-IN, PATHWAYS AND SLEEVES			●	
AV CONDUITS			●	
FLOOR BOXES AND AV BACKBOXES			●	
AV EQUIPMENT RACKS	●			
AV CABLING	●			
DISPLAY MOUNTING HARDWARE	●			
FLAT-PANEL DISPLAYS	●			
HDMI, USB, AND AV EXTENDER EQUIPMENT	●			
SECURITY - ACCESS CONTROL:				
	OFOI	**OFCI**	**CFCI**	**CFOI**
ROUGH-IN, PATHWAYS AND SLEEVES			●	
SECURITY DEVICE BACKBOXES			●	
SECURITY CABLING	●			
DOOR POWER TRANSFER DEVICES	●			
ELECTRIFIED LOCKING HARDWARE	●			
CARD READERS	●			
DOOR POSITION SWITCHES	●			
REQUEST-TO-EXIT DEVICES	●			
ACCESS CONTROL POWER SUPPLIES	●			
ACCESS CONTROL PANELS AND CONTROLLERS	●			
ACCESS CONTROL HEAD-END EQUIPMENT AND SOFTWARE	●			
SECURITY - VIDEO SURVEILLANCE:				
	OFOI	**OFCI**	**CFCI**	**CFOI**
ROUGH-IN, PATHWAYS AND SLEEVES			●	
CAMERA BACKBOXES AND MOUNTS			●	
CAMERA CABLING	●			
IP CAMERAS	●			
NETWORK VIDEO RECORDERS	●			
VIDEO MANAGEMENT SYSTEM SOFTWARE	●			
VIDEO MONITORING WORKSTATIONS	●			
RESPONSIBILITY LEGEND				
●	**OFOI**	OWNER FURNISHED/OWNER INSTALLED		
●	**OFCI**	OWNER FURNISHED/CONTRACTOR INSTALLED		
●	**CFCI**	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED		
●	**CFOI**	CONTRACTOR FURNISHED/OWNER INSTALLED		

GENERAL NOTES

A. THIS MATRIX IDENTIFIES PROCUREMENT AND INSTALLATION RESPONSIBILITY ONLY AND DOES NOT RELIEVE ANY PARTY OF COORDINATION REQUIREMENTS.

B. CONTRACTOR SHALL COORDINATE ALL TECHNOLOGY ROUGH-IN REQUIREMENTS WITH THE EQUIPMENT MANUFACTURER AND TECHNOLOGY SYSTEM INSTALLER PRIOR TO INSTALLATION.

C. OWNER-FURNISHED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

D. COORDINATE DELIVERY, STORAGE, INSTALLATION, TESTING, AND COMMISSIONING OF OWNER-FURNISHED EQUIPMENT WITH THE OWNER.

E. IN THE EVENT OF A CONFLICT, THE CONTRACT DOCUMENTS AND SYSTEM-SPECIFIC REQUIREMENTS SHALL GOVERN.

F. TECHNOLOGY WORK MUST BE COORDINATED WITH DIV 26 FOR POWER AND DIVISION 08 FOR DOOR HARDWARE.

GENERAL TELECOMMUNICATIONS NOTES

A. COMMUNICATIONS RACEWAYS, TRAYS, AND OUTLETS ARE SHOWN DIAGRAMMATICALLY. LOCATIONS ARE APPROXIMATE UNLESS SPECIFICALLY DIMENSIONED. FIELD COORDINATE ALL WORK WITH OTHER TRADES.

B. CONSTRUCTION DETAILS SHOW TYPICAL INSTALLATION, AND APPLY TO ALL COMMUNICATIONS WORK INCLUDED IN THE SUMMARY OF WORK FOR THIS PACKAGE EVEN THOUGH NOT SPECIFICALLY REFERENCED ON THE PLAN DRAWINGS.

C. THE TECHNOLOGY DRAWINGS ARE PART OF A LARGER SET OF DRAWINGS WHICH, WHEN COMPLETE, CONSISTS OF DRAWINGS LISTED BY THE "INDEX OF DRAWINGS." PARTIAL SETS OF DRAWINGS NOT INCLUSIVE OF ALL DISCIPLINES ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED.

D. INSTALL PULL STRINGS IN CONDUITS AT THE TIME OF CONDUIT AND CABLE INSTALLATION.

E. WHERE CEILINGS ARE PROVIDED, CENTER CABLE TRAY, OUTLETS, AND CABLING BETWEEN LUMINAIRES AND CEILING DEVICES AND WITHIN CEILING TILES WHERE THEY OCCUR. COORDINATE WITH ARCHITECTURAL ELEVATIONS FOR EXACT WALL LOCATIONS, PRIOR TO INSTALLATION.

CONDUIT BEND RADIUSES	
INTERNAL DIAMETER	MINIMUM BEND RADIUS
2" OR LESS	6 TIMES THE INTERNAL CONDUIT DIAMETER
2.5" OR MORE	10 TIMES THE INTERNAL CONDUIT DIAMETER

CONDUIT REQUIREMENT CABLE FILL*				
CONDUIT TRADE SIZE	CONDUIT AREA (SQ IN)	40% FILL BASED ON DIAMETER OF CABLES		
		.250"	.265"	.275"
1.25"	1.5"	4	4	4
2"	3.36"	27	24	22
3"	7.39"	72	64	59
4"	12.73"	120	106	99

* INDUSTRY STANDARD AND NEC CODES IS TO DESIGN FOR A MAXIMUM OF 40% FILL. THE ACTUAL NUMBER OF CABLES WHICH CAN BE INSTALLED IN A PARTICULAR CONDUIT CAN BE SLIGHTLY MORE OR SIGNIFICANTLY LESS DEPENDING UPON FOLLOWING:

1. ALL CABLES MUST BE PULLED AT THE SAME TIME TO ACHIEVE THE GREATER FILL LEVELS.

SHEET INDEX

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T2.10	FIRST FLOOR PLAN - TECHNOLOGY
T2.20	SECOND FLOOR PLAN - TECHNOLOGY
T4.01	ENLARGED PLANS - TECHNOLOGY

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CLACKAMAS COUNTY STAMP

CLACKAMAS RIVER WATER
16770 SE 82ND DR.
CLACKAMAS, OR 97015

WTP BUILDING IMPROVEMENTS 2026

CRW #: 25-1199

Clackamas River Water

INTERFACE ENGINEERING
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OREGON
JUNE 02, 2023
MARK K. O'LEARY
EXPIRES: 12/31/26

△	DESCRIPTION	DATE:

PROJECT NO. P-3116-26
DESIGNED: TS
REVIEWED: MO
DATE: 08-07-26

SYMBOL LIST AND GENERAL NOTES - TECHNOLOGY

T0.01

BID AND PERMIT SET

ONE INCH EQUALS FULL SCALE

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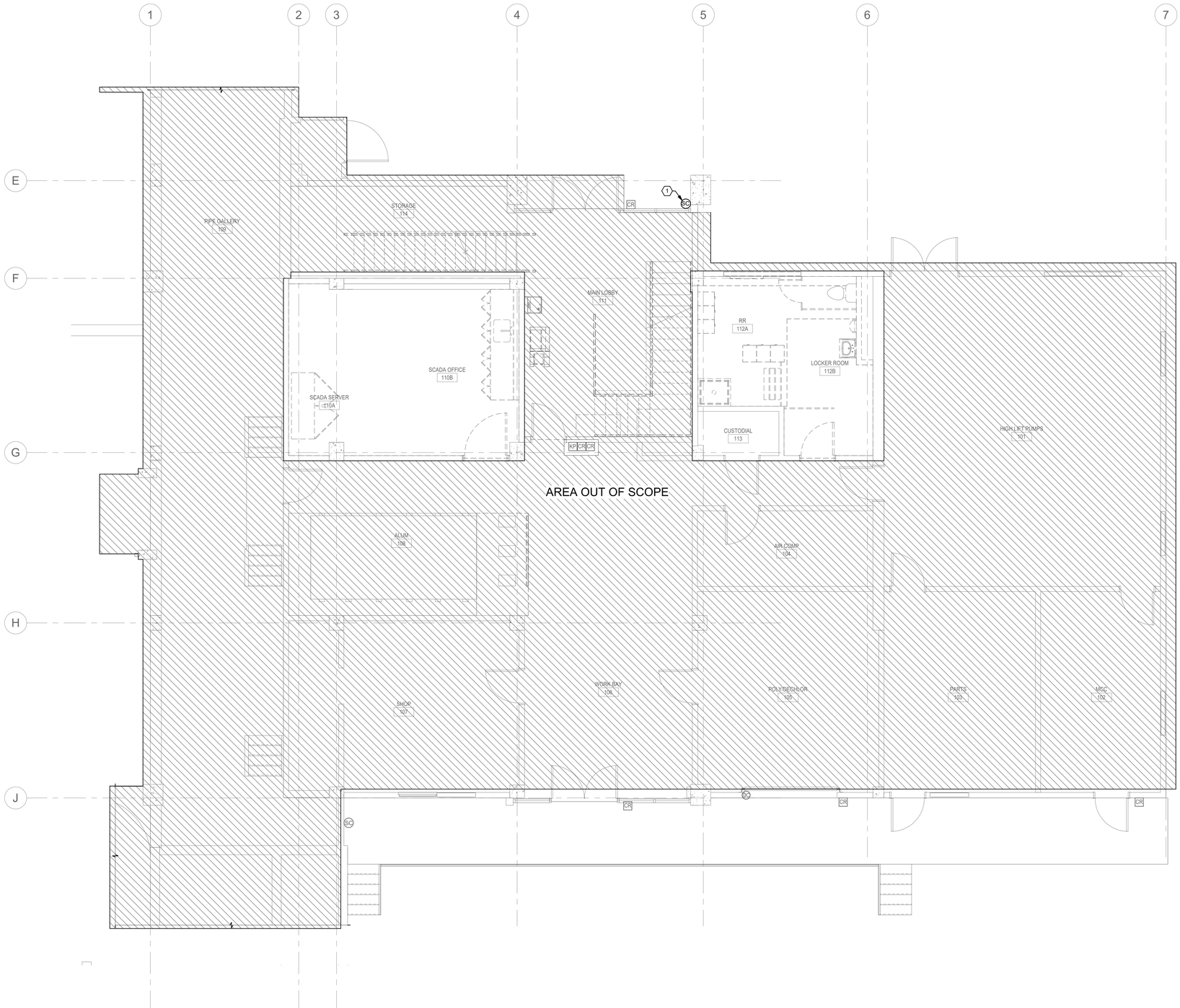
GENERAL SHEET NOTES

A. DEMOLISH EXISTING HORIZONTAL CABLING AND MODULAR CONNECTORS

B. DEMOLISH EXISTING SECURITY CABLING BACK TO LEVEL 2 IT ROOM. EXISTING SECURITY DEVICES TO REMAIN AT CURRENT LOCATION AND BE RE-CABLED TO LEVEL 1 SCADA SERVER ROOM

SHEET KEYNOTES

1. DEMOLISH EXISTING CAMERA AND CABLING. RETURN CAMERA TO CRWD SECURITY PERSONNEL



1 FIRST FLOOR PLAN - TECHNOLOGY

0' 2' 4' 8'

1/4" = 1'-0"

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FIRST FLOOR PLAN - TECHNOLOGY

TD2.10

BID AND PERMIT SET

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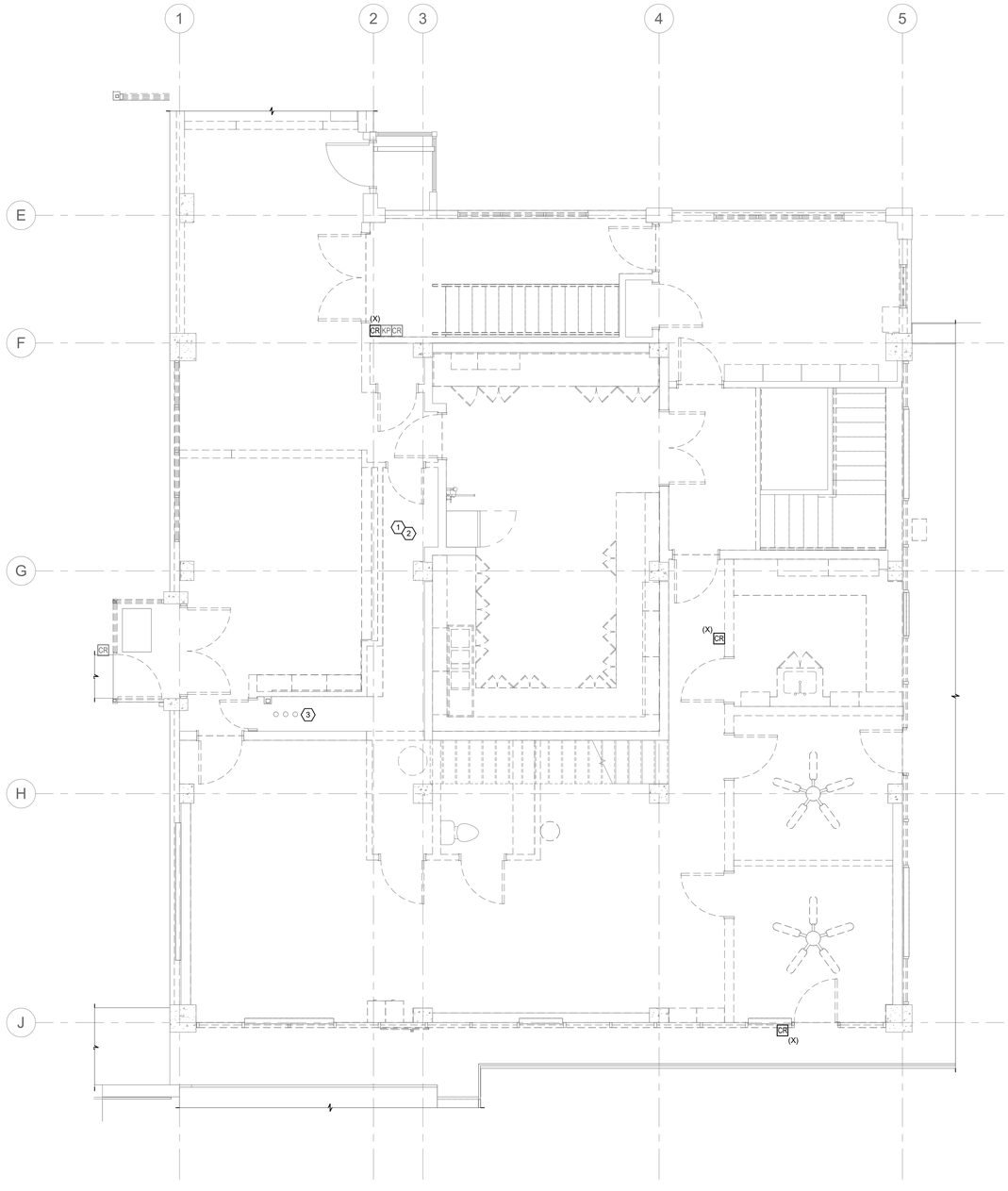
GENERAL SHEET NOTES

A. DEMOLISH EXISTING HORIZONTAL CABLING AND MODULAR CONNECTORS

B. DEMOLISH EXISTING SECURITY CABLING BACK TO LEVEL 2 IT ROOM. EXISTING SECURITY DEVICES TO REMAIN AT CURRENT LOCATION AND BE RE-CABLED TO LEVEL 1 SCADA SERVER ROOM UON FOR DEMO

SHEET KEYNOTES

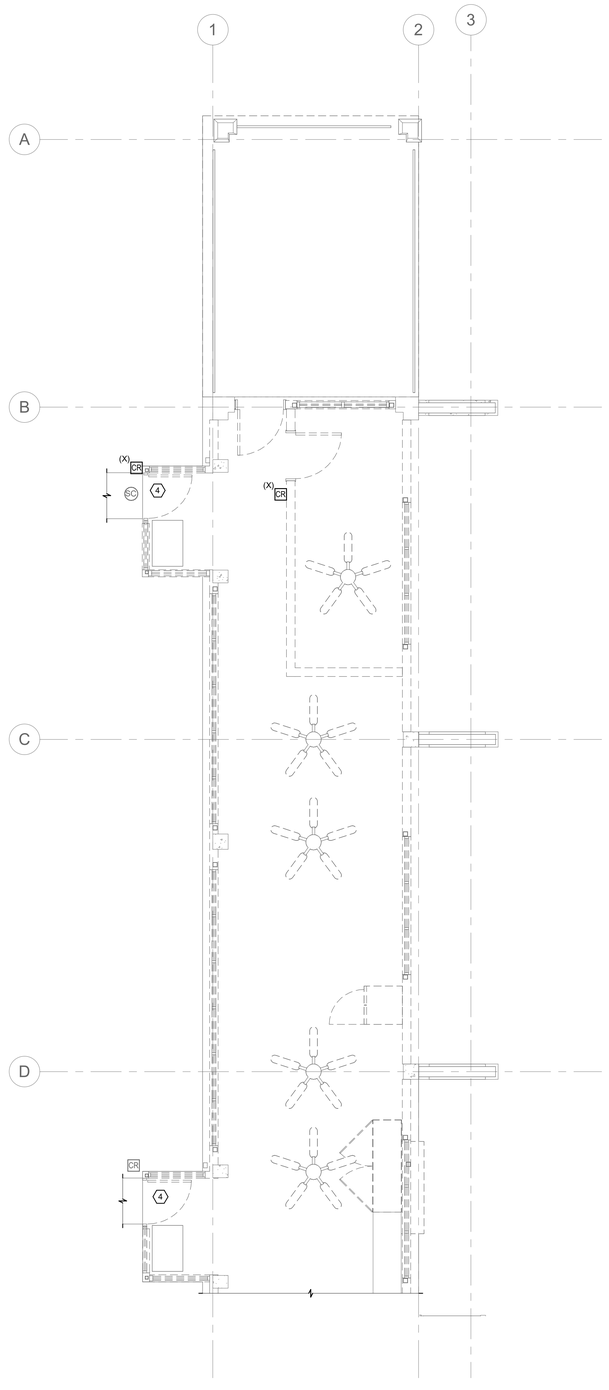
1. DEMOLISH EXISTING TELECOMMUNICATIONS AND SECURITY INFRASTRUCTURE. COORDINATE TIMELINE AND DEMO WITH OWNER PRIOR TO REMOVAL OF ANY EQUIPMENT
2. RELOCATE BACKBONE CABLING TO LEVEL 1 SCADA SERVER ROOM. COORDINATE TIMELINE AND DEMO WITH OWNER AND SERVICE PROVIDER PRIOR TO REMOVAL OF ANY CABLING OR EQUIPMENT
3. DEMOLISH EXISTING CABLING, AND CONDUIT SLEEVES THROUGH FLOOR. COORDINATE TIMELINE AND DEMO WITH OWNER PRIOR TO REMOVAL OF ANY CABLING
4. DEMOLISH EXISTING MAG LOCK



1 SECOND FLOOR PLAN - TECHNOLOGY

0' 2' 4' 8'

1/4" = 1'-0"



2 SECOND FLOOR PLAN - CONFERENCE - TECHNOLOGY

0' 2' 4' 8'

1/4" = 1'-0"

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MARK K. O'LEARY
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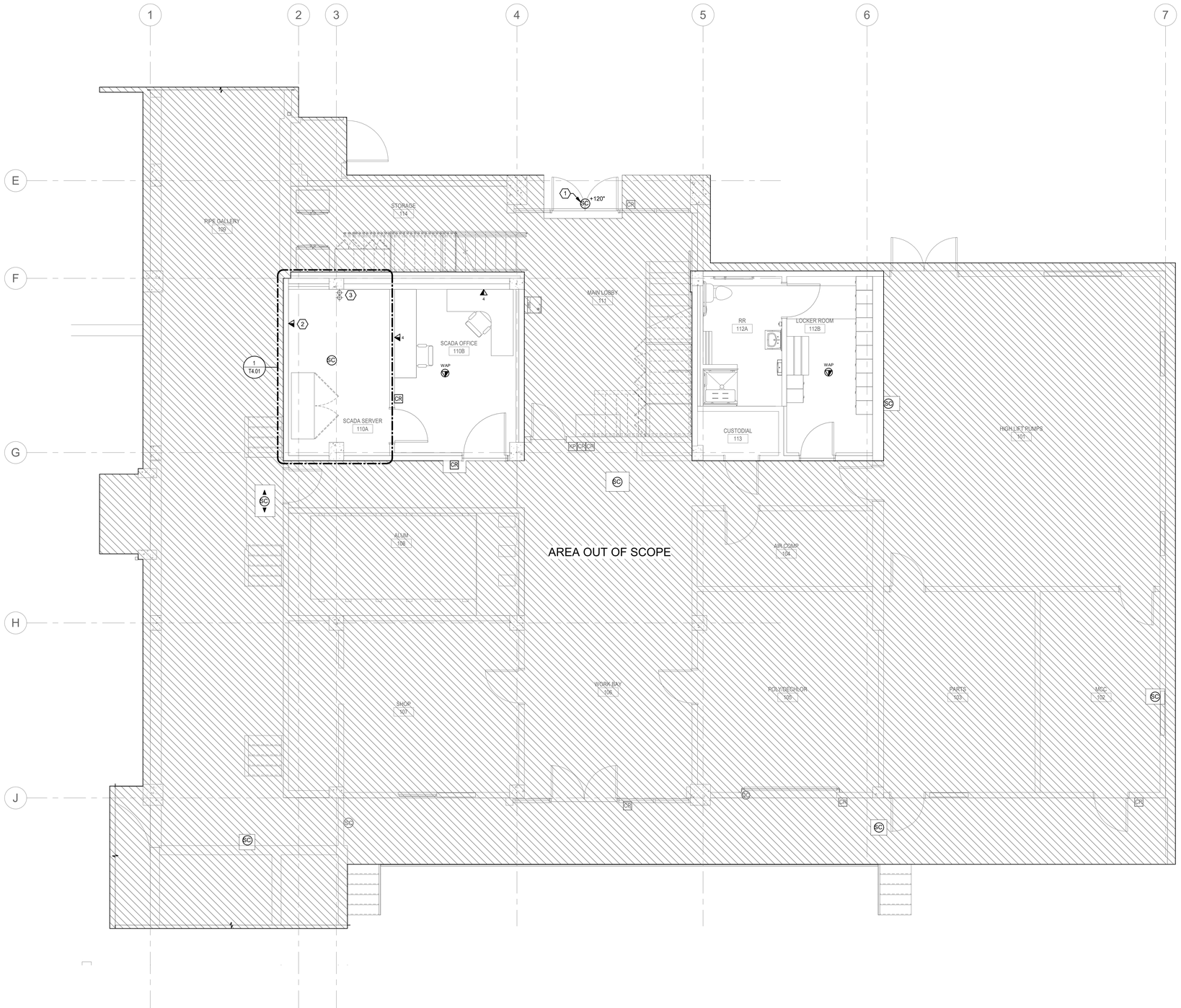
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SECOND FLOOR PLAN - TECHNOLOGY

TD2.20

BID AND PERMIT SET

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1 FIRST FLOOR PLAN - TECHNOLOGY

0' 2' 4' 8'

1/4" = 1'-0"

GENERAL SHEET NOTES

A. TECHNOLOGY PATHWAYS SHOWN ARE DEDICATED FOR TELECOMMUNICATIONS AND SECURITY CABLING ONLY.

B. PROVIDE LISTED AND APPROVED FIRESTOP SYSTEMS AT ALL PENETRATIONS THROUGH FIRE-RATED WALLS, FLOORS, AND SMOKE BARRIERS. MAINTAIN REQUIRED HOURLY RATING OF EACH ASSEMBLY PER CODE.

C. CABLING ROUTED TO FLOOR BOXES THROUGH IN-SLAB CONDUIT MUST BE RATED FOR USE IN WET LOCATIONS. INSTALL ONLY INDOOR/OUTDOOR RATED OR WET-LOCATION LISTED CABLE TYPES.

D. COORDINATE FINAL FLOOR BOX LOCATIONS WITH ARCHITECT AND FURNITURE PLAN PRIOR TO ROUGH-IN.

SHEET KEYNOTES

1. REINSTALL EXISTING CAMERA TO ABOVE DOOR
2. PROVIDE TELECOM OUTLET FOR SECURITY PANELS. COORDINATE FINAL LOCATION WITH POINT MONITOR PRIOR TO ROUGH-IN
3. PROVIDE (2) 4-INCH CONDUIT SLEEVES TO LEVEL 2 ACCESSIBLE CEILING FOR HORIZONTAL CABLING

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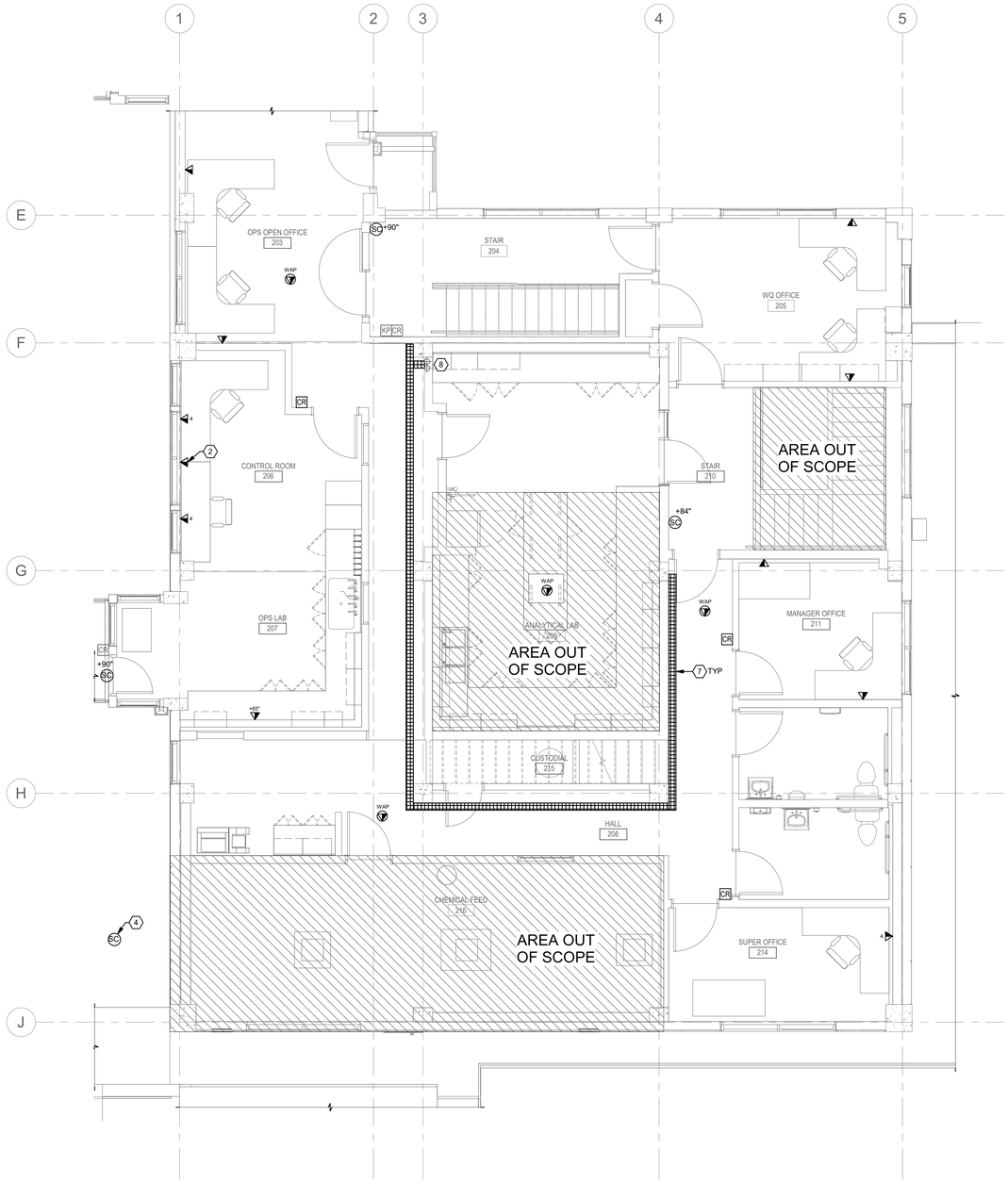
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FIRST FLOOR PLAN - TECHNOLOGY

T2.10

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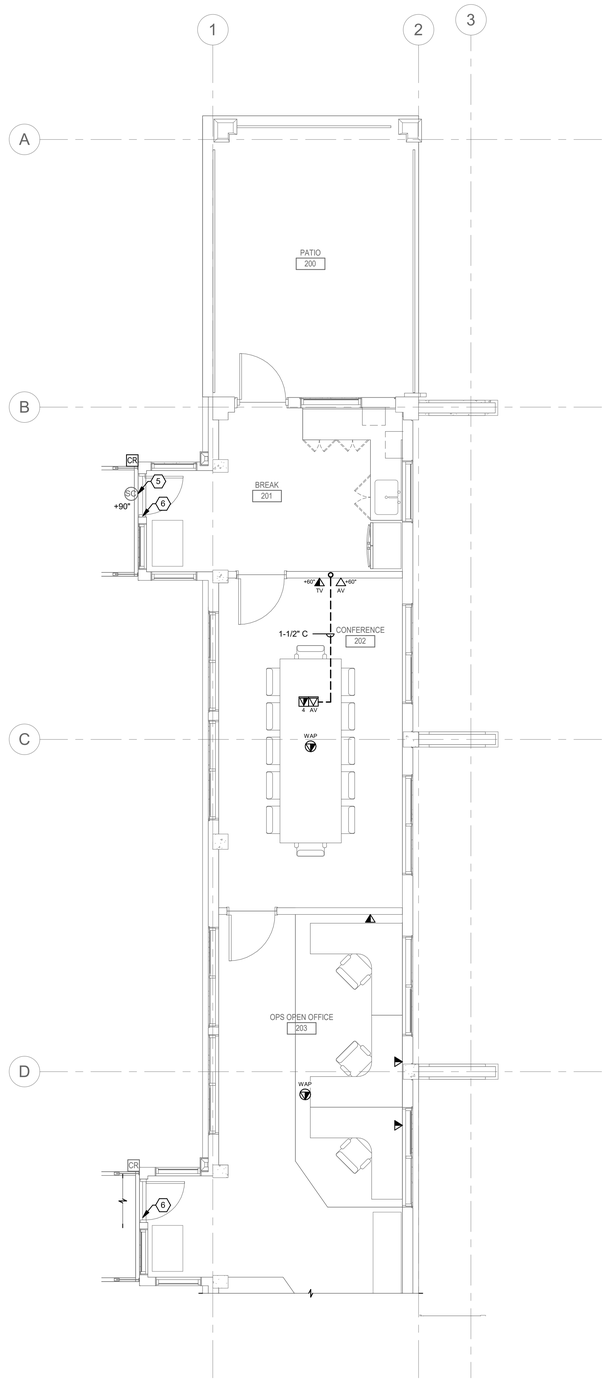
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1 SECOND FLOOR PLAN - TECHNOLOGY

0' 2' 4' 8'

1/4" = 1'-0"



2 SECOND FLOOR PLAN - CONFERENCE - TECHNOLOGY

0' 2' 4' 8'

1/4" = 1'-0"

GENERAL SHEET NOTES

A. TECHNOLOGY PATHWAYS SHOWN ARE DEDICATED FOR TELECOMMUNICATIONS AND SECURITY CABLING ONLY.

B. PROVIDE LISTED AND APPROVED FIRESTOP SYSTEMS AT ALL PENETRATIONS THROUGH FIRE-RATED WALLS, FLOORS, AND SMOKE BARRIERS. MAINTAIN REQUIRED HOURLY RATING OF EACH ASSEMBLY PER CODE.

C. CABLING ROUTED TO FLOOR BOXES THROUGH IN-SLAB CONDUIT MUST BE RATED FOR USE IN WET LOCATIONS. INSTALL ONLY INDOOR/OUTDOOR RATED OR WET-LOCATION LISTED CABLE TYPES.

D. COORDINATE FINAL FLOOR BOX LOCATIONS WITH ARCHITECT AND FURNITURE PLAN PRIOR TO ROUGH-IN.

SHEET KEYNOTES

1. REINSTALL EXISTING CAMERA TO ABOVE DOOR
2. PROVIDE TELECOM OUTLET FOR ANALOG RED PHONE
3. PROVIDE PAGING SYSTEM BASE STATION
4. PROVIDE SURVEILLANCE CAMERA FOR INFLUENT CHANNEL VIEWING. COORDINATE FINAL LOCATION AND PATHWAY WITH CRWD
5. PROVIDE NEW SURVEILLANCE CAMERA IN PLACE OF EXISTING CAMERA
6. PROVIDE NEW ELECTRIC STRIKE AND DOOR POSITION SWITCH
7. PROVIDE 6-INCH BY 4-INCH WIRE MESH TYPE CABLE TRAY AT 10-FEET AFF
8. PROVIDE (2) 4-INCH CONDUITS IN FURRED OUT WALL FOR CABLE PATHWAY TO SERVER ROOM

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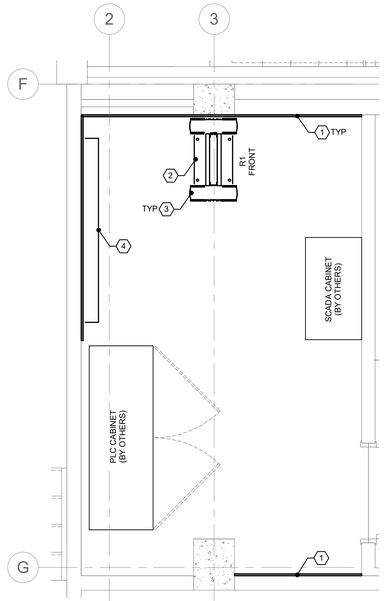
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SECOND FLOOR PLAN - TECHNOLOGY

T2.20

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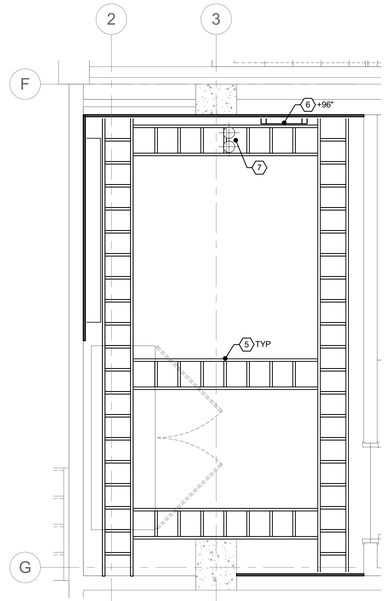
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1 ENLARGED PLAN - SCADA SERVER 110A - EQUIPMENT

0' 1' 2' 4'

1/2" = 1'-0"



2 ENLARGED PLAN - SCADA SERVER 110A - OVERHEAD

0' 1' 2' 4'

1/2" = 1'-0"

GENERAL SHEET NOTES

A. INSTALL PLYWOOD BACKBOARD AS SHOWN STARTING AT 6" AFF. MASK FIRE RATING STAMP PRIOR TO PAINTING.

B. PROVIDE CABLE RADIUS DROP OUTS WHERE CABLING TRANSITIONS FROM OVERHEAD CABLE RUNWAY.

C. LABEL RACKS AND PATCH PANELS ACCORDING TO OWNER STANDARDS.

D. REFER TO ELECTRICAL DRAWINGS FOR RECEPTACLE REQUIREMENTS.

E. PROVIDE PLASTIC BUSHINGS AT CONDUIT AND SLEEVE ENDS.

F. NEATLY BUNDLE AND SUPPORT CABLING USING APPROVED CABLE AND VELCRO TIES.

G. CONTRACTOR TO VERIFY AND PROVIDE EXACT QUANTITY OF PATCH PANELS BASED ON THEIR INDEPENDENT CABLE COUNT. PATCH PANELS SHOWN IN ELEVATION ARE FOR REFERENCE ONLY.

H. INSTALL COMPONENTS AS SHOWN IN RACK ELEVATIONS. ANY CHANGES MUST BE APPROVED BY OWNER'S IT GROUP PRIOR TO INSTALLATION,

I. BOND ALL METALLIC TELECOMMUNICATIONS INFRASTRUCTURE TO PRIMARY TELECOMMUNICATIONS BONDING BUSBAR (PBB) IN ACCORDANCE WITH TIA-607 AND NEC REQUIREMENTS. PROVIDE CONTINUOUS BONDING PATH TO BUILDING GROUNDING ELECTRODE SYSTEM

SHEET KEYNOTES

1. PROVIDE 4-FOOT BY 8-FOOT BY .75-INCH AC GRADE FIRE RETARDANT PLYWOOD BACKBOARD
2. PROVIDE 45RU TWO-POST TELECOM EQUIPMENT RACK
3. PROVIDE 6-INCH DOUBLE-SIDED VERTICAL CABLE MANAGER
4. SPACE RESERVED FOR SECURITY PANELS
5. PROVIDE 12-INCH CABLE RUNWAY AT 7-FOOT 6-INCHES AFF
6. PROVIDE 20-INCH BY 4-INCH PRIMARY BONDING BUSBAR (PBB)
7. PROVIDE (2) 4-INCH CONDUITS TO LEVEL 2 FOR HORIZONTAL CABLING PATHWAY

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ENLARGED PLANS - TECHNOLOGY

T4.01

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