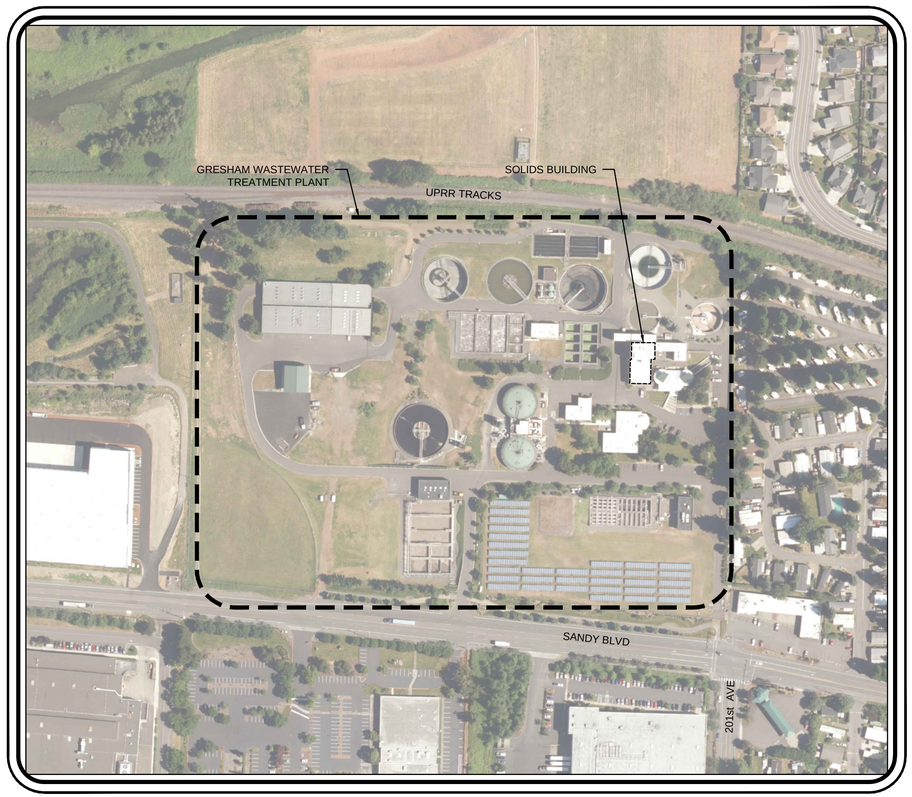
CITY OF GRESHAM
PROJECT NO. CIPWW00047
WWTP BELT PRESS REPLACEMENT

100% DESIGN
ISSUED FOR CONSTRUCTION

MARCH 2026

GRESHAM WWTP VICINITY MAP



GRESHAM WWTP AREA MAP

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: AC
DRAWN: PP
CHECKED: AL
APPROVED: HL

SHEET
G-0001
1 OF 110

EXP. 12-31-27

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SCALE VERT: AS SHOWN
HORIZ: AS SHOWN

DATE: MARCH 2026

PROJECT NO.: CIPWW00047

LEGAL
SECTION | TOWNSHIP | RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: GENERAL - TITLE, VICINITY AND AREA MAPS

LOCATION: IN THE CITY OF GRESHAM

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503-618-2525

CITY OF GRESHAM

FILENAME: G-0001_D3838501.dwg PLOT DATE: $PLOTDATE PLOT TIME: $PLOTTIME

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109	E-6041	ELECTRICAL - MOTOR CONTROL SCHEMATICS
110	E-6042	ELECTRICAL - MOTOR CONTROL SCHEMATICS

Jacobs

NO.	DATE	REVISION	BY

DESIGNED: AC
DRAWN: PP
CHECKED: AL
APPROVED: HL

SHEET G-0002 2 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 74579PE — Digitally Signed — ALAN LEITHAUSER — EXP: 12-31-27

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: GENERAL - DRAWING INDEX

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FILENAME: G-0002_D3838501.dwg PLOT DATE: 2-MAR-2026 PLOT TIME: 07:57

ABBREVIATIONS

SYMBOLS	
Δ	DELTA, DIFFERENCE
Σ	SUM
×	MULTIPLY
÷	DIVIDE
√	SQUARE ROOT
>	SELECT HIGHEST SIGNAL
<	SELECT LOWEST SIGNAL
}	BIAS
%	GAIN, ATTENUATE
1:1	REPEAT, BOOST
@	AT
#	NUMBER / POUND
(L)	LINING
°F	DEGREES FAHRENHEIT
°C	DEGREES CELSIUS
A	
A	AMPERE, AUTOMATIC, AMMETER, AMPERES
AC	ALTERNATING CURRENT
AFD	ADJUSTABLE FREQUENCY DRIVE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ANT	ANTENNA
AS	ADJUSTABLE SPEED
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
B	
BKR	BREAKER
BLDG	BUILDING
BN	BUSINESS NETWORK
BS	BLENDED SLUDGE
C	
C	CONDUIT, CONTACTOR, CONDUCTOR, CLOSE
CAM	CAMERA
CAT 6	CATEGORY 6 ETHERNET CABLE (COPPER)
CEN	CENTRATE
CONC	CONCRETE
CONN	CONNCETION
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CS	CONSTANT SPEED
CT	CURRENT TRANSFORMER, CABLE TRAY
D	
D	DAY
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
DS	DIGESTED SLUDGE
DWS	DEWATERED SOLIDS
E	
E-STOP	EMERGENCY STOP
E	EMPTY
ELEC, ELECT	ELECTRICAL
EQUIP	EQUIPMENT
ETH	ETHERNET
EXST, EXIST	EXISTING
EXH	EXHAUST
F	
F, FU	FUSE
FA	FOUL AIR
FAP	FIBER ADAPTER PANEL
FACP	FIRE ALARM CONTROL PANEL
FCV	FLOW CONTROL VALVE
FLT	FILTRATE
FN	FACILITIES NETWORK
FNSW	FACILITIES NETWORK SWITCH

FO	FIBER OPTIC CABLE
FPP	FIBER PATCH PANEL
FREQ	FREQUENCY
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET
FVNR	FULL-VOLTAGE, NON-REVERSING
FVR	FULL-VOLTAGE, REVERSING
FW	FIREWALL
G	
G	GAS, GROUND
GAL	GALLONS
GB	GIGABIT
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPS	GLOBAL POSITIONING SYSTEM
GW	GATEWAY
H	
HH	HANDHOLE
HMI	HUMAN MACHINE INTERFACE
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HS	HAND SWITCH
HW2	HOT W2
HZ	HERTZ
I	
I&C	INSTRUMENTATION AND CONTROL
IC	INTERRUPTING CAPACITY
IO	INPUT/OUTPUT
ISP	INTERNET SERVICE PROVIDER
J	
J, JB	JUNCTION BOX
K	
KA	KILOAMPERES
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KVM	KEYBOARD VIDEO MONITOR
KW	KILOWATTS
L	
LB	POUNDS
LCP	LOCAL CONTROL PANEL
LCS	LOCAL CONTROL STATION
LOR	LOCAL-OFF-REMOTE
LR	LOCAL-REMOTE
M	
M	MAGNETIC CONTACTOR COIL, MOTOR, MANUAL
MCC	MOTOR CONTROL CENTER
MH	MANHOLE, METAL HALIDE, MOUNTING HEIGHT
MIX	MIXER
MMFO	MULTI MODE FIBER OPTIC
MSC	MANUFACTURER SUPPLIED CABLE
MWS	MANAGEMENT WORKSTATION
N	
NAS	NETWORK ATTACHED STORAGE
NC	NORMALLY CLOSED
NIP	NETWORK INTERFACE PANEL
NO.	NUMBER
N.O.	NORMALLY OPEN
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
NTP	NETWORK TIME PROTOCOL

O	
OC	ON CENTER, OPEN-CLOSE
OCR	OVERCURRENT RELAY, OPEN-CLOSE-REMOTE
OF	OVERFLOW
OIT	OPERATOR INTERFACE TERMINAL
OL	OVERLOAD RELAY
OO	ON-OFF
OOR	ON-OFF-REMOTE
OSC	OPEN-STOP-CLOSE
OUI	OPERATOR INTERFACE UNIT
P	
PB	PULL BOX
PBU	POLYMER BLENDING UNIT
PCN	PROCESS CONTROL NETWORK
PCNSW	PROCESS CONTROL NETWORK SWITCH
PD	PLANT DRAIN
PG&E	PORTLAND GAS AND ELECTRIC
PLC	PROGRAMMABLE LOGIC CONTROLLER
PMP	PUMP
POE	POWER OVER ETHERNET
POL	POLYMER, POLYMER (NEAT)
POS	POLYMER SOLUTION
PRV	PRESSURE RELIEF VALVE
PS	PRIMARY SLUDGE
PSI	POUNDS PER SQUARE INCH
PSIG	POUND PER SQUARE INCH GAUGE
R	
RDT	ROTARY DRUM THICKENER
REM	REMOTE
RGS	RIGID GALVANIZED STEEL CONDUIT
RIO	REMOTE INPUT/OUTPUT
S	
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SHLD	SHIELD
SMFO	SINGLE MODE FIBER OPTIC
SS	SANITARY SEWER, START-STOP
SST	STAINLESS STEEL
SV	SOLENOID VALVE
SVR	SERVER
SW	SWITCH
SWBD	SWITCHBOARD
T	
TBD	TO BE DETERMINED
THRU	THROUGH
THS	THICKENED SLUDGE
TS	TOTAL SOLIDS
TYP	TYPICAL
U	
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
V	
V	VOLTS / VERTICAL, VENT, VOLTAGE
VAC	VOLTAGE, ALTERNATING CURRENT
VDC	VOLTAGE, DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
W	
W	WATTS
WAS	WASTE ACTIVATED SLUDGE
WP	WEATHERPROOF
WS	WORKSTATION
X	
XFMR	TRANSFORMER
(X) MMFO-Y	MULTIMODE FIBER OPTIC CABLE, WHERE X= THE QUANTITY OF CABLES, Y= THE NUMBER OF FIBER STANDS IN EACH CABLE
(X) SMFO-Y	SINGLEMODE FIBER OPTIC CABLE, WHERE X= THE QUANTITY OF CABLES, Y= THE NUMBER OF FIBER STANDS IN EACH CABLE

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: AC
DRAWN: PP
CHECKED: AL
APPROVED: HL

SHEET G-0003
3 OF 110

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DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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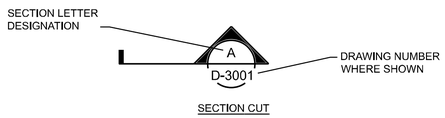
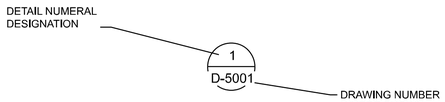
FILENAME: G-0003_I3838501.dwg PLOT DATE: 2-MAR-2026 PLOT TIME: 07:57

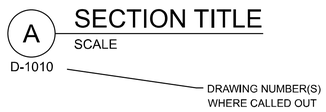
SECTION AND DETAIL DESIGNATIONS

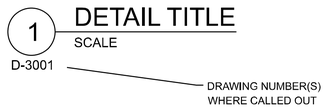


SECTION CUT



DETAIL CALLOUT





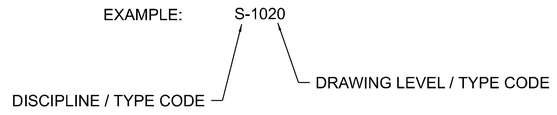
KEYNOTE NUMBER

DESIGN DETAIL DESIGNATION

NOTES:

1. ALL DESIGN DETAILS ARE TYPICAL AND MUST BE USED IF DESIGN DETAIL DESIGNATION IS NOT SHOWN.
2. THE TERM STANDARD DETAIL, OR A FORM OF IT, IS SYNONYMOUS WITH DESIGN DETAIL. THE DESIGN DETAILS REPRESENT THE CHARACTER AND NATURE OF THE WORK REQUIRED THROUGHOUT THE PROJECT. ALL ASSOCIATED WORK SHALL BE IN ACCORDANCE WITH THE DESIGN DETAILS SHOWN WHETHER THE DETAILS ARE SPECIFICALLY REFERENCED OR NOT.

DRAWING NUMBERING LEGEND



DISCIPLINE / TYPE CODES	DRAWING LEVEL / TYPE CODES
C - CIVIL CE - EROSION AND SEDIMENT CONTROL CY - YARD PIPING D - PROCESS MECHANICAL DX - PROCESS MECHANICAL DEMOLITION E - ELECTRICAL EX - ELECTRICAL DEMOLITION G - GENERAL H - HVAC HX - HVAC DEMOLITION N - INSTRUMENTATION AND CONTROL S - STRUCTURAL	0000 - NOTES, LEGENDS 1000 - PLANS 2000 - ELEVATIONS 3000 - SECTIONS 4000 - ENLARGED PLANS 5000 - DETAILS 6000 - DIAGRAMS, SCHEDULES

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: AC
DRAWN: PP
CHECKED: AL
APPROVED: HL

SHEET G-0004 4 OF 110

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PROFESSIONAL ENGINEER — OREGON — ALAN LEITHAUSER — EXP: 12-31-27 — Digitally Signed

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SHEET NAME: GENERAL - OVERALL GENERAL LEGEND

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503-618-2525

PLOT TIME: 07:57
PLOT DATE: 2-MAR-2026
FILENAME: G-0004_D3838501.dwg

GENERAL SITE NOTES:

1. SOURCE OF TOPOGRAPHY SHOWN ON THE CIVIL PLANS ARE BASE MAPS FROM SURVEY PERFORMED BY COMPASS ENGINEERING FROM MAY 2006. EXISTING CONDITIONS MAY VARY FROM THOSE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ADJUST WORK PLAN ACCORDINGLY PRIOR TO BEGINNING CONSTRUCTION.
2. EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED.
3. HORIZONTAL DATUM: NAVD 83(2011), COORDINATE SYSTEM: OREGON STATE PLANE, NORTH ZONE.
4. VERTICAL DATUM: BASIS OF ELEVATIONS: ORBITECH CONTROL POINT 97-006-01, 2 1/2" BRASS DISC SET IN A CONCRETE CURB STAMPED "ORBITECH 97-006-01 OR LS 2578 CONTROL POINT " AT NE CORNER OF WWTP PROPERTY, ON INSIDE CURB NORTH PERIMETER ROAD, WEST 36' FROM STREET LIGHT ELEVATION = 64.18 (NAVD88).
5. MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.
6. STAGING AREA SHALL BE FOR CONTRACTOR'S EMPLOYEE PARKING, CONTRACTOR'S TRAILERS AND ON-SITE STORAGE OF MATERIALS.
7. PROVIDE TEMPORARY FENCING AS NECESSARY TO MAINTAIN SECURITY TO STAGING AREA AND PLANT AT ALL TIMES.
8. ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACE SHALL BE COVERED WITH 2-INCHES OF 3/4" MINUS AGGREGATE PER ODOT SPECIFICATION 2640.
9. CONTRACTOR SHALL TAKE ALL OTHER MEASURES TO POSITIVELY PRECLUDE EROSION MATERIALS FROM LEAVING THE SITE. CONTRACTOR TO SUBMIT EROSION CONTROL PLAN AND APPLY AND MAINTAIN THE 1200C PERMIT.

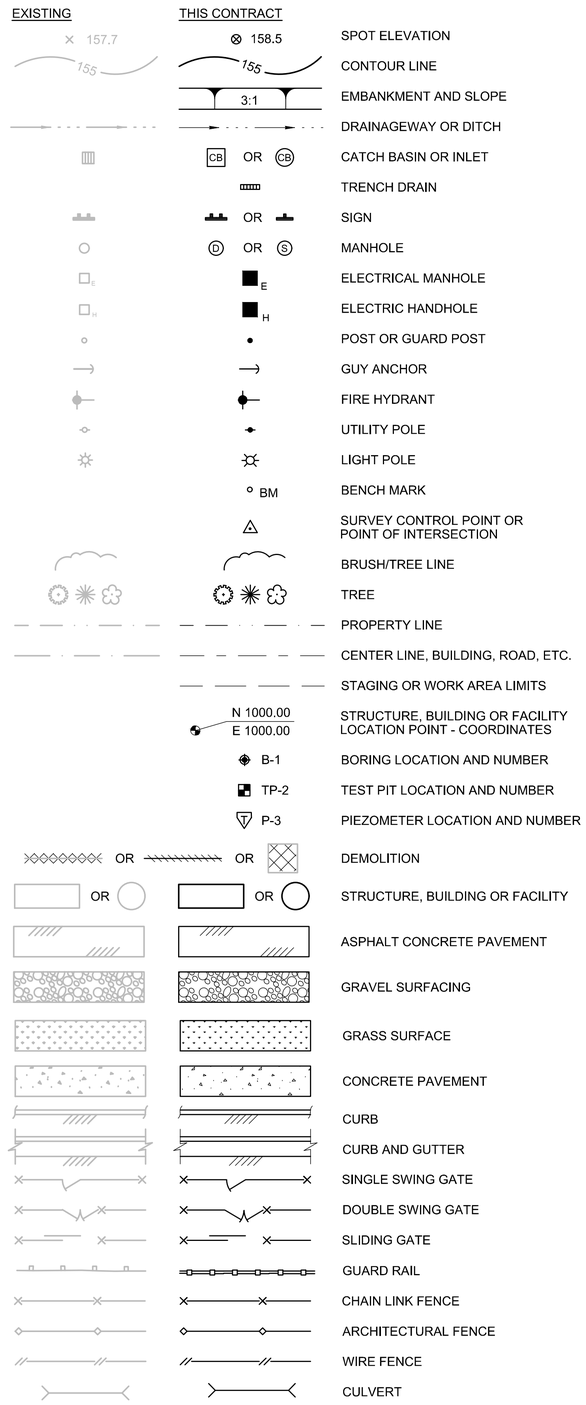
GENERAL YARD PIPING AND UTILITIES NOTES:

1. EXISTING UNDERGROUND UTILITIES OBTAINED FROM AS-BUILTS AND FROM FIELD SURVEY. LOCATION OF UTILITIES SHOWN MAY NOT BE ACCURATE AND CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY DEPTH AND LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION. PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
2. EXISTING PIPING AND EQUIPMENT ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW PIPING AND EQUIPMENT ARE SHOWN HEAVY-LINED.
3. UNLESS OTHERWISE SHOWN ALL PIPING SHALL HAVE A MINIMUM OF 3' OF COVER.
4. ALL PIPES SHALL HAVE A CONSTANT SLOPE BETWEEN INVERT ELEVATIONS UNLESS A FITTING IS SHOWN.
5. FOR TYPICAL TRENCH SEE 3123-110 AND 3123-111.
6. FOR PIPING FLOW STREAM IDENTIFICATION, SEE PIPE SCHEDULE ON G-0086.
7. MINIMUM ALLOWABLE CLEARANCE BETWEEN PIPES AT CROSSINGS SHALL BE 3". WHERE CLEARANCE IS LESS THAN 12" CONTROLLED LOW STRENGTH MATERIAL IS REQUIRED AS SHOWN ON 3123-120.
8. PRESERVE AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. MAINTAIN UTILITY SERVICE UNLESS SERVICE DISRUPTION IS SPECIFICALLY ALLOWED IN THE NOTES AND SPECIFICATIONS. COORDINATE WITH OWNER FOR CONNECTION OF TEMPORARY SERVICE LINES. SUPPORT EXISTING UNDERGROUND UTILITIES AS NECESSARY DURING CONSTRUCTION OF NEW PIPES.
9. MAINTAIN MINIMUM CLEARANCE TO OVERHEAD UTILITIES AS REQUIRED BY THE UTILITY OWNER. COORDINATE ALL ACTIVITIES NEAR OVERHEAD UTILITIES WITH THE RESPECTIVE OWNER. CONTRACTOR SHALL PLACE SIGNS AND VISUAL WARNING DEVICES AT ALL OVERHEAD POWERLINES IN ACTIVE WORK ZONE.
10. CONTRACTOR SHALL TAKE ALL OTHER MEASURES TO POSITIVELY PRECLUDE EROSION MATERIALS FROM LEAVING THE SITE. CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND MAINTAINING THE 1200-C PERMIT.

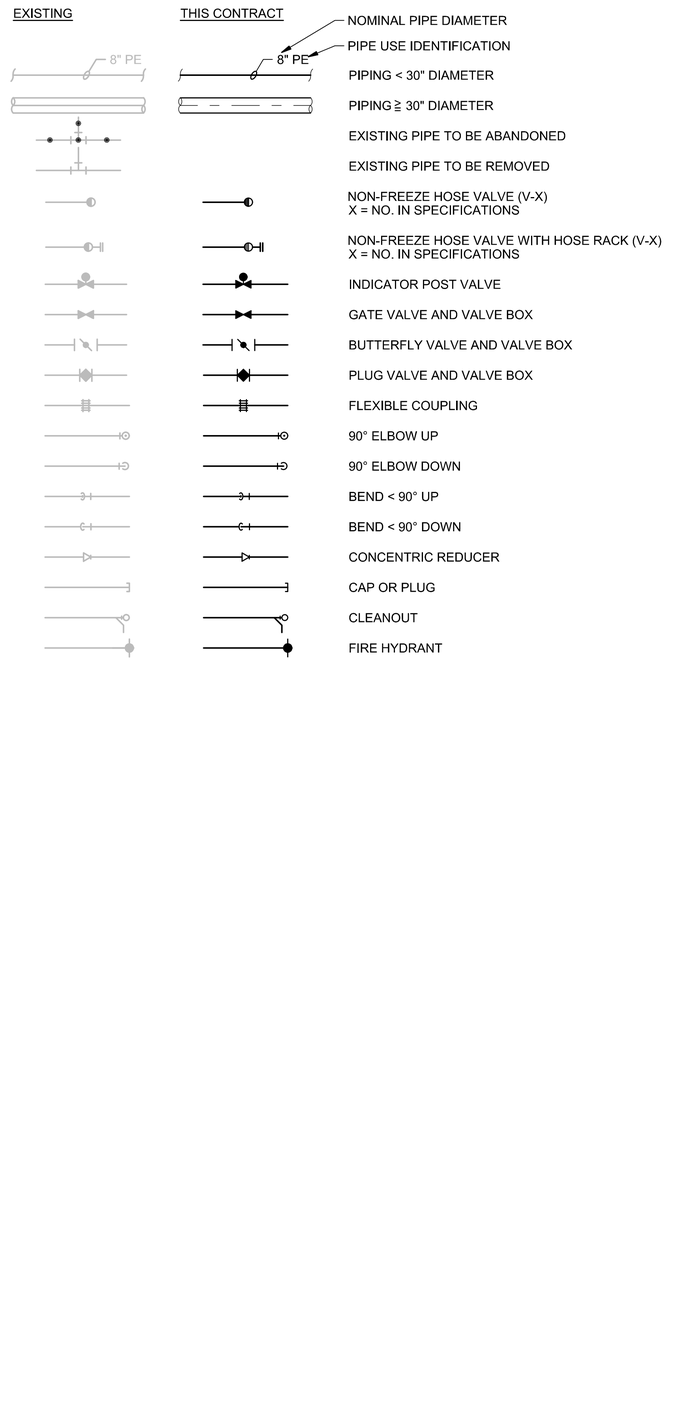
GENERAL SHEET NOTES

1. THIS IS A STANDARD LEGEND SHEET. THEREFORE, NOT ALL OF THE INFORMATION,SHOWN MAY BE USED ON THIS PROJECT.

CIVIL LEGEND



YARD PIPING LEGEND



Jacobs

DATE	NO.	REVISION	BY

DESIGNED: BK
DRAWN: AB
CHECKED: JK
APPROVED: HL

SHEET G-0010 5 OF 110

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REGISTERED PROFESSIONAL ENGINEER — OREGON — 83242PE — JENNIFER PHILLIPS — Digital Signature — EXP: 06/30/2027

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: GENERAL - CIVIL AND YARD PIPING LEGEND
LOCATION: IN THE CITY OF GRESHAM

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DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

CITY OF GRESHAM

PLOT TIME: $PLOTTIME
PLOT DATE: $PLOTDATE
FILENAME: G-0010_I3838501.dwg

PS FROM LOWER PLANT
PS
TO ANAEROBIC DIGESTION
PS FROM UPPER PLANT
WAS BYPASS
PS / WAS
WAS FROM UPPER PLANT
PS FROM LOWER PLANT
SLUDGE BLENDING TANK
OF
TO DIVERSION STRUCTURE
THS
TO ANAEROBIC DIGESTION
TS ANALYZER
WAS
WAS
PS / WAS
SLUDGE MIXING PUMP
NPW
NPW
WAS FROM LOWER PLANT
WAS
WAS FROM LOWER PLANT
M
POS
MIX TANK 3
ROTARY DRUM THICKENER (RDT) 3
THICKENED SLUDGE HOPPER
FLT
THS
THS
BS
BLENDED SLUDGE PUMP 3
THICKENED SLUDGE PUMP 3
WAS FROM LOWER PLANT
POLYMER DILUTION WATER
NPW
CW2
BS
M
POS
BLENDED SLUDGE PUMP 2
MIX TANK 2
ROTARY DRUM THICKENER (RDT) 2
THICKENED SLUDGE HOPPER
CW2
POL
POS
FLT
THS
THICKENING POLYMER BLENDING UNIT 1
THS
THS
TO ANAEROBIC DIGESTION
THICKENED SLUDGE PUMP 2
WAS
NPW
CW2
POL
POS
BS
M
POL
BLENDED SLUDGE PUMP 1
MIX TANK 1
ROTARY DRUM THICKENER (RDT) 1
THICKENED SLUDGE HOPPER
THICKENING POLYMER BLENDING UNIT 2
WAS
FLT
THS
THICKENING POLYMER STORAGE TANK
POL
THS
THICKENED SLUDGE PUMP 1
CW2
POL
POS
FLT
THICKENING POLYMER BLENDING UNIT 3
THICKENING RECIRCULATION PUMP 1
TO AERATION BASIN SPLITTER BOX
POL

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CITY OF GRESHAM

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1333 N.W. EASTMAN PARKWAY
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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: GENERAL - PROCESS - THICKENING SYSTEM PROCESS FLOW DIAGRAM

LOCATION: IN THE CITY OF GRESHAM

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SCALE	VERT: AS SHOWN
	HORIZ: AS SHOWN
DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047
	LEGAL
SECTION	TOWNSHIP / RANGE

REGISTERED PROFESSIONAL ENGINEER — OREGON — 94939PE — Digital Signature — 06/30/26 — BRETT W. REIS — EXP.: 12/31/26

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET G-0018
6 OF 110

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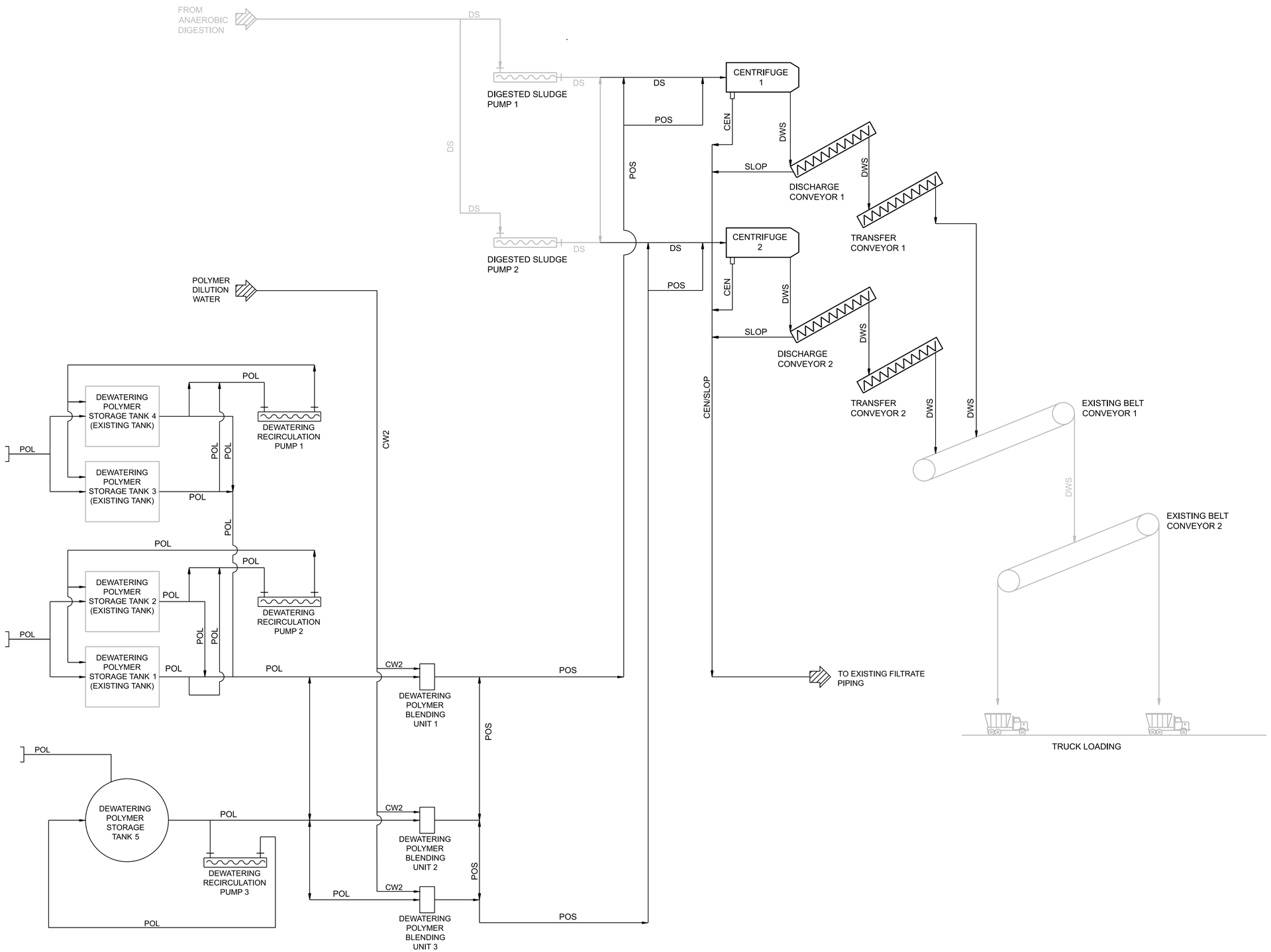
PLOT TIME: 09:20
PLOT DATE: 3-MAR-2026
FILENAME: G-0018_ID383850I.dwg



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CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
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503-618-2525

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: GENERAL - PROCESS - DEWATERING SYSTEM PROCESS FLOW DIAGRAM

LOCATION: IN THE CITY OF GRESHAM

SCALE	VERT: AS SHOWN
	HORIZ: AS SHOWN
DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047
	LEGAL
SECTION	TOWNSHIP / RANGE

REGISTERED PROFESSIONAL ENGINEER — OREGON — 5/6/2012 — Digital Signature — BRETT W. REID — 12/31/26 — EXP.

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET G-0019 7 OF 110

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PLOT TIME: 09:20
PLOT DATE: 3-MAR-2026
FILENAME: G:\0019_D3838501.dwg

LEGEND

SYMBOL	DESCRIPTION
SCADA	PANEL MOUNTED HMI WORKSTATION
	CAMERA
OIT	OPERATOR INTERFACE TERMINAL
	WORKSTATION
	ETHERNET SWITCH INDUSTRIAL HARDENED, PANEL MOUNT
	ETHERNET SWITCH
	SERVER
	PLC
	FIBER PATCH PANEL
SA	SERVICE ANTENNA
KVM	KEYBOARD VIDEO MONITOR
	DUAL MONITOR WORKSTATION
	VIDEO WALL TOUCH SCREEN
WiFi	WiFi ACCESS POINT
	NETWORK PRINTER
GW	ETHERNET I/P GATEWAY (PROTOCOL CONVERTER)

SYMBOL	DESCRIPTION
	CAT6 (UNLESS OTHERWISE NOTED)
	FIBER OPTIC
	PROVIDED BY GRESHAM
	ANTENNA
	RJ-45 WALL JACK
	CELLULAR ANTENNA
	FIREWALL

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET G-0020
8 OF 110

RECORD DRAWING PROFESSIONAL ENGINEER
Digital Signature
JEFFREY D. KNOCK
EXP: 6-30-27

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SCALE
VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: GENERAL - INSTRUMENTATION AND CONTROL LEGEND - 1

LOCATION: IN THE CITY OF GRESHAM

CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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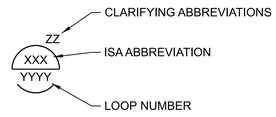
FILENAME: G-0020_D3838501.dwg PLOT DATE: 27-FEB-2026 PLOT TIME: 03:36

INSTRUMENT IDENTIFICATION

EXAMPLE SYMBOLS



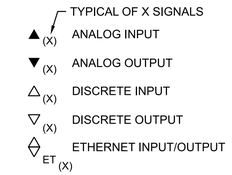
INSTRUMENT IDENTIFICATION LETTERS TABLE

LETTER	FIRST-LETTER		SUCCEEDING-LETTERS		
	PROCESS OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	READOUT OR PASSIVE FUNCTION	READOUT OR PASSIVE FUNCTION
A	ANALYSIS (+), AIR		ALARM		
B	BURNER, COMBUSTION		USER'S CHOICE (*)	USER'S CHOICE (*)	USER'S CHOICE (*)
C	USER'S CHOICE (*)			CONTROL	
D	DENSITY (S.G.)	DIFFERENTIAL			
E	VOLTAGE		PRIMARY ELEMENT, SENSOR		
	FLOW RATE	RATIO (FRACTION)			
G	USER'S CHOICE (*)		GLASS, GAUGE VIEWING DEVICE	GATE	
H	HAND (MANUAL)		HUMIDITY		HIGH
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW
M	MOTION	MOMENTARY			MIDDLE, INTERMEDIATE
N	TORQUE		USER'S CHOICE (*)	USER'S CHOICE (*)	USER'S CHOICE (*)
O	USER'S CHOICE (*)		ORIFICE, RESTRICTION		
P	PRESSURE, VACUUM		POINT (TEST) CONNECTION		
Q	QUANTITY	INTEGRATE, TOTALIZE			
R	RADIATION		RECORD OR PRINT		
S	SPEED, FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTI VARIABLE		MULTI FUNCTION	MULTI FUNCTION	MULTI FUNCTION
V	VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER, LOUVER	
W	WEIGHT, FORCE		WELL		
X	UNCLASSIFIED (*)	X AXIS	UNCLASSIFIED (*)	UNCLASSIFIED (*)	UNCLASSIFIED (*)
Y	EVENT, STATE OR PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT	
Z	POSITION	Z AXIS		DRIVE, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	

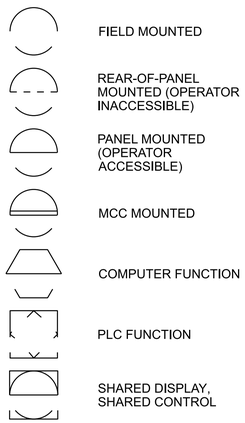
TABLE BASED ON THE INSTRUMENTATION, SYSTEMS, AND AUTOMATION SOCIETY (ISA) STANDARD.

(+) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL. SEE ABBREVIATIONS AND LETTER SYMBOLS.
(*) WHEN USED, DEFINE THE MEANING HERE FOR THE PROJECT.

DIGITAL SYSTEM INTERFACES



GENERAL INSTRUMENT OR FUNCTIONAL SYMBOLS



TRANSDUCERS

A	ANALOG	I	CURRENT
D	DIGITAL	P	PNEUMATIC
E	VOLTAGE	PF	PULSE FREQUENCY
F	FREQUENCY	PD	PULSE DURATION
H	HYDRAULIC	R	RESISTANCE

EXAMPLE

CURRENT TO PNEUMATIC TRANSDUCER (BACK OF PANEL, IN A FLOW LOOP)

ACCESSORY DEVICES

A	ALARM
C	CONTROLLER
I	INDICATOR
R	RECORDER
S	SWITCH
T	TRANSMITTER
X	UNCLASSIFIED

EXAMPLE

TRANSMITTER AS AN ACCESSORY TO A FLOW ELEMENT

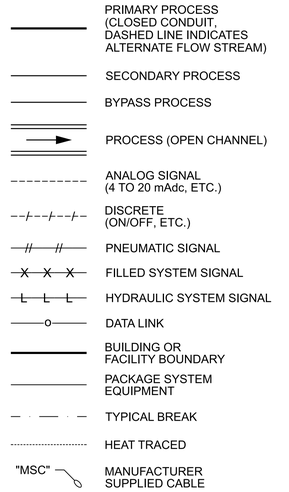
SPECIAL CASES

ON AND OFF EVENT LIGHTS

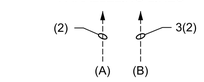
ON-OFF HAND SWITCH, MAINTAINED CONTACT SWITCH (CONTROLLED DEVICE WILL RESTART ON RETURN OF POWER AFTER POWER FAILURE).

STOP-START HAND SWITCH MOMENTARY CONTACT SWITCHES (CONTROLLED DEVICE WILL NOT RESTART ON RETURN OF POWER AFTER POWER FAILURE).

LINE LEGEND



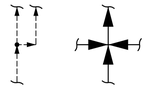
PARALLELING LINES



(A) TOTAL OF 2 SIGNALS

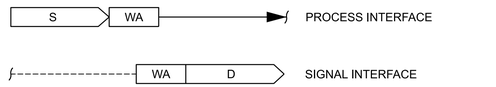
(B) 3 TYPICAL SETS OF 2 SIGNALS EACH. TOTAL OF 6 SIGNALS.

CONNECTING LINES



NON-CONNECTING LINES

INTERFACE SYMBOLS

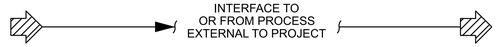


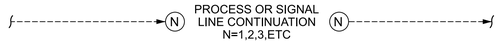
W SOURCE UNIT PROCESS NO. (1 OR 2 DIGITS)

A INTERFACE NO. (2 DIGITS)

D DESTINATION DRAWING NO.

S SOURCE DRAWING NO.





SELF CONTAINED VALVE & EQUIPMENT TAG NUMBERS

DXY

D	ARV	AIR RELEASE VALVE
	AVRV	AIR AND VACUUM RELEASE VALVE
	CENT	CENTRIFUGE
	COLL	COLLECTOR
	CON	CONVEYOR
	CRN	MONORAIL HOIST CRANE
	DA	DEAERATOR
	GTE	GATE
	PL	PIG LAUNCHER
	PMP	PUMP
	PRV	PRESSURE RELIEF VALVE
	PSV	PRESSURE SAFETY VALVE
	PVRV	PRESSURE AND VACUUM RELIEF VALVE
	TNK	TANK
X		LOOP NUMBER
Y		UNIT NUMBER

PLC ANALOG INPUT/OUTPUT DESCRIPTOR CODES

CL2	"CHLORINE" INPUT
COND	"CONDUCTIVITY" INPUT
FLOW	"FLOW" INPUT
LVL	"LEVEL" INPUT
PH	"PH ANALYZER" INPUT
PRSS	"PRESSURE" INPUT
PSAI	"POSITION FEEDBACK" INPUT
PSAO	"POSITION COMMAND" OUTPUT
SETP	"SETPOINT COMMAND" OUTPUT
SPAI	"SPEED FEEDBACK" INPUT
SPAO	"SPEED COMMAND" OUTPUT
TEMP	"TEMPERATURE" INPUT
TURB	"TURBITY" INPUT
UVT	"UV TRANSMITTANCE" INPUT

PLC DIGITAL INPUT/OUTPUT DESCRIPTOR CODES

ACT	"ACTIVE"
ALNT	"ALARM NOTIFICATION"
BATT	"UPS ON BATTERY"
BECN	"BEACON"
BYP	"ON MANUAL BYPASS"
CLSD	"CLOSED"
CLSE	"CLOSE COMMAND"
DOOR	"DOOR INTRUSION"
DRN	"DRAIN VALVE OPEN"
ESTP	"EMERGENCY STOP"
FAIL	"FAIL"
FIRE	"FIRE"
FLT	"FAULT"
FSH	"FLOW HIGH"
GENL	"GENERAL ALARM"
GNAV	"GENERATOR POWER AVAILABLE"
HIGH	"HIGH"
HIH	"HIGH HIGH"
HORN	"HORN"
ILUM	"ILLUMINATE COMMAND"
LEAK	"SEAL LEAK"
LLH	"LEVEL LIGHT HIGH"
LOW	"LOW"
ON	"OFF-ON"
ONBT	"ON BATTERY"
ONGN	"ON GENERATOR POWER"
ONL	"UPS ONLINE"
ONUT	"ON UTILITY POWER"
OPEN	"OPEN COMMAND"
OPND	"OPENED"
OVLD	"UPS OVERLOAD"
PSH	"PRESSURE HIGH"
REM	"LOCAL-REMOTE"
RFWD	"RUNNING FORWARD"
RH	"HUMIDITY"
RREV	"RUNNING REVERSE"
RST	"RESET COMMAND"
RUN	"RUN STATUS"
SFWD	"RUNNING FORWARD"
SIL	"SILENCE"
SREV	"RUNNING REVERSE"
SRGE	"ALTERNATE SOURCE"
STOP	"STOP COMMAND"
STRT	"START COMMAND"
SUPV	"SUPERVISORY"
TAH	"TEMPERATURE HIGH"
TRBL	"TROUBLE"
UTAV	"UTILITY POWER AVAILABLE"
UTIL	"UPS ON UTILITY"
VIB	"VIBRATION"
WARN	"WARNING"
ZSPD	"ZERO SPEED"

GENERAL NOTES

1. COMPONENTS AND PANELS SHOWN WITH A SINGLE ASTERISK (∗) ARE TO BE PROVIDED AS PART OF A PACKAGE SYSTEM.
2. COMPONENTS AND PANELS SHOWN WITH A DOUBLE ASTERISK (∗∗) ARE TO BE PROVIDED UNDER DIVISION 26, ELECTRICAL.
3. THIS IS A STANDARD LEGEND. THEREFORE, NOT ALL OF THIS INFORMATION MAY BE USED ON THE PROJECT.
4. ITEMS SHOWN AS BOLD ARE NEW. ITEMS SHOWN AS SCREENED BACK ARE EXISTING.

Jacobs

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

CITY OF GRESHAM

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET G-0021
9 OF 110

EXP: 6-30-27

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LOCATION: IN THE CITY OF GRESHAM

SHEET NAME: GENERAL - INSTRUMENTATION AND CONTROL LEGEND - 2

PROJECT NAME: WWTP BELT PRESS REPLACEMENT

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SCALE	VERT: AS SHOWN
	HORIZ: AS SHOWN
DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047

LEGAL

SECTION	TOWNSHIP	RANGE

PLOT TIME: 03:35
PLOT DATE: 27-FEB-2026
FILENAME: G-0021_D3838501.dwg

VALVE SYMBOLS

- GATE
- KNIFE GATE
- BUTTERFLY
- GLOBE
- BALL
- V — VEE-BALL
- PLUG
- SEAT PORT ECCENTRIC PLUG
- DIAPHRAGM
- KL — KEYLOCK VALVE
- PINCH
- NEEDLE
- SWING CHECK
- BALL CHECK
- BACKFLOW PREVENTER
- ROTARY
- TELESCOPE
- S — SAMPLE
- MUD
- PRESSURE RELIEF
- AIR AND/OR VACUUM RELEASE
- REGULATED SIDE PRESSURE CONTROL
- PRESSURE REGULATION (CLAY-TYPE)
- MULTI-PORT VALVE (GATE VALVE SHOWN. FOR OTHER VALVE TYPES, APPROPRIATE VALVE SYMBOL SHOWN). SEAT PORTS ARE IMPLIED BY INDICATED FLOW PATTERN.
- ANGLE GATE

GATE SYMBOLS

- SLUICE
- BUTTERFLY
- FABRICATED SLIDE
- FLAP
- STOP LOG
- SHEAR

ACTUATOR SYMBOLS

- PNEUMATIC DIAPHRAGM SPRING-OPPOSED, SINGLE OR DOUBLE ACTING
- PNEUMATIC CYLINDER SINGLE OR DOUBLE ACTING ACTUATED BY ONE INPUT
- M — ELECTRIC MOTOR
- S — SOLENOID
- VALVE POSITIONER
- DIAPHRAGM, DIFFERENTIAL PRESSURE
- MANUAL

NOTE:

ON LOSS OF PRIMARY POWER (PNEUMATIC, ELECTRICAL, OR HYDRAULIC)

XX:
- FO — FAIL OPEN
- FC — FAIL CLOSED
- FLP — FAIL TO LAST POSITION

PRIMARY ELEMENT SYMBOLS

- PARSHALL FLUME
- WEIR
- ORFICE PLATE
- FLOW TUBE
- PITOT-STATIC
- VORTEX METER
- ULTRASONIC FLOW METER
- M — ELECTROMAGNETIC FLOW METER
- PROPELLER FLOW METER
- D — DENSITY METER WITH FLUSHING RING
- PROPELLER OR TURBINE METER
- THERMAL FLOWMETER
- LEVEL (BUBBLER TUBE)
- LS — LEVEL (FLOAT)
- FI — ROTAMETER
- DE — DENSITY METER
- XX — GENERIC
- LE — LEVEL (RADAR)
- LE — LEVEL (ULTRASONIC)

MISCELLANEOUS SYMBOLS

- V — VENT TO ATMOSPHERE
- AIR GAP
- T — DRIP TRAP
- PIG INSERT POINT
- PIG CATCH POINT
- A — SELF CONTAINED AIR SUPPLY
- AP — AIR PURGE SET
- F — FLUSHING CONNECTION
- S — SEAL WATER SET
- WP — WATER PURGE SET
- FLEXIBLE CONNECTION
- AERATOR
- DIAPHRAGM SEAL
- ANNULAR DIAPHRAGM SEAL
- SS — COMPOSITE SAMPLER
- FLAME TRAP
- CALIBRATION COLUMN
- S — INLINE SILENCER
- BLIND FLANGE
- PIPE CAP
- STRAINER
- BASKET STRAINER
- FILTER
- PULSATION DAMPENER
- EXPANSION CHAMBER
- DISCONNECT
- FFLCPLLLX — PANEL CONTINUED ON SAME OR OTHER DRAWING
- PANEL OUTLINE
- PANEL NAME
- 120V — 120 VOLT, 60 HZ POWER
- 480V — 480 VOLT, 60 HZ POWER
- XX — AIR SET XX = SUPPLY PRESSURE IN PSIG.
- PLUG
- RECEPTACLE
- RUPTURE DISK (VACUUM)
- RUPTURE DISK (PRESSURE)
- TV — TV MONITOR
- TV — TV CAMERA
- A, B → AND → C — LOGIC ELEMENT: IF A AND NOT B THEN C
- A, B → OR → C — LOGIC ELEMENT: IF A OR B THEN C
- RADIO ANTENNA
- I / OR / I — INTERLOCK, SEE CONTROL DIAGRAMS
- VOICE COMMUNICATION POINT
- SKIMMING MECHANISM
- SCREW CONVEYOR
- MIXER
- M — ELECTRIC MOTOR

PUMP AND COMPRESSOR SYMBOLS

- XX — CENTRIFUGAL PUMP
- XX — CENTRIFUGAL WET PIT PUMP OR TURBINE PUMP
- XX — RECIPROCATING OR METERING PUMP (POSITIVE DISPLACEMENT)
- XX — DIAPHRAGM PUMP
- XX — GEAR PUMP OR BLOWER (POSITIVE DISPLACEMENT)
- XX — PISTON PUMP
- XX — SUBMERSIBLE SUMP PUMP
- XX — PROGESSING CAVITY PUMP
- XX — COMPRESSOR (CENTRIFUGAL)
- XX — COMPRESSOR (PISTON)
- XX — BLOWER OR FAN (CENTRIFUGAL)
- EJECTOR
- ROTARY PUMP
- VACUUM PUMP
- SCREW PUMP

XX:
- AS — ADJUSTABLE SPEED
- CS — CONSTANT SPEED (SINGLE SPEED)
- CS-2 — CONSTANT SPEED (TWO SPEED)

LINE SIZE AND FLOW STREAM IDENTIFICATION

(FOR REFERENCE ONLY. SEE SITE AND MECHANICAL DRAWINGS)

Jacobs

PLOT TIME: 03:35
PLOT DATE: 27-FEB-2026
FILENAME: G-0022_D3838501.dwg

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET G-0022
10 OF 110

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OREGON PROFESSIONAL ENGINEER — Digitally signed by JEFFREY D KNOX — EXP: 6-30-27

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: GENERAL - INSTRUMENTATION AND CONTROL LEGEND - 3

LOCATION: IN THE CITY OF GRESHAM

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DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

CITY OF GRESHAM

DESIGN CRITERIA

1. APPLICABLE CODE: 2024 INTERNATIONAL BUILDING CODE (IBC), AS AMENDED BY THE STATE OF OREGON AND ALL OTHER APPLICABLE LOCAL AGENCIES. THE LOCALLY ADOPTED CODE IS THE OSSC 2025.
2. REFER TO THE DRAWINGS FOR ADDITIONAL AND SPECIFIC STRUCTURE LOADINGS AND REQUIREMENTS.
3. ALL LOADS SHOWN ARE SERVICE LEVEL (UNFACTORED) UNLESS SPECIFICALLY NOTED OTHERWISE.
4. DEAD LOADS:
   SELF WEIGHT.
5. FLOOR LIVE LOADS:

MECHANICAL ROOM	200 PSF
CORRIDORS, EXITS, STAIRS	100 PSF
WALKWAYS AND ELEVATED PLATFORMS	60 PSF
LIGHT STORAGE	125 PSF
HEAVY STORAGE	250 PSF

   DEFLECTION CRITERIA FOR CONTRACTOR DESIGNED FLOOR FRAMING MEMBERS:

   INDUSTRIAL/PROCESS FLOOR (ELECTRICAL/ MECHANICAL ROOMS, STORAGE, ETC):

TOTAL LOAD	L/240
LIVE LOAD	L/360

   WHERE L IS THE MEMBER SPAN LENGTH
6. WIND LOADS:

ASCE 7 METHOD	= MWFRS DIRECTIONAL PROCEDURE
BASIC WIND SPEED (3-SECOND GUST)	= 107 MPH
EXPOSURE CATEGORY	= C
INTERNAL PRESSURE COEFFICIENT, GCpi	= +/- 0.18

7. SEISMIC LOADS:

MAPPED SPECTRAL RESPONSE ACCELERATIONS	
S_S	= 0.91g
S_1	= 0.33g
DESIGN SPECTRAL RESPONSE ACCELERATIONS	
S_{DS}	= 0.73g
S_{D1}	= 0.49g
SITE CLASS	= D
SEISMIC DESIGN CATEGORY	= D
IMPORTANCE FACTOR, I_E	= 1.25 (EXISTING STRUCTURE)
COMPONENT IMPORTANCE FACTOR, I_P	= 1.50 (ALL EQUIPMENT AND PIPE SUPPORTS ANCHORAGE AND BRACINGS)

8. SPECIAL LOADS: SEE PLANS FOR STRUCTURE SPECIFIC LOADS
9. RISK CATEGORY = III (EXISTING STRUCTURE)

GENERAL INFORMATION

1. FOR ABBREVIATIONS NOT LISTED, SEE ASME Y14.38 "ABBREVIATIONS AND ACRONYMS: PUBLICATION AS DISTRIBUTED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).
2. DESIGN DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT.
3. VERIFY FINAL OPENING DIMENSIONS IN WALLS, SLABS, AND DECKS WITH OTHER DISCIPLINE DRAWINGS PRIOR TO CONSTRUCTION OF THESE ELEMENTS.
4. FOR NUMBER, TYPE, SIZE, ARRANGEMENT, AND/OR LOCATION OF EQUIPMENT PADS, SEE OTHER DISCIPLINE DRAWINGS. COORDINATE WITH EQUIPMENT SUPPLIER PRIOR TO PLACING SLABS, WALLS AND FOUNDATIONS. COORDINATE PIPING OPENINGS WITH OTHER DISCIPLINE DRAWINGS.
5. DO NOT CUT OR MODIFY STRUCTURAL MEMBERS FOR PIPES, DUCTS, ETC, UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE ENGINEER.
6. VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE THE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT ENGINEER IS GUARANTOR OF CONSTRUCTOR'S WORK, NOR RESPONSIBLE FOR THE COMPREHENSIVE OR SPECIAL INSPECTIONS, COORDINATION, SUPERVISION, OR SAFETY AT THE JOB SITE.
7. INFORMATION (DETAILING, DIMENSIONS, CONFIGURATIONS, AND ELEVATIONS, ETC.) OF EXISTING CONSTRUCTION SHOWN REFLECTS AVAILABLE EXISTING DESIGN DOCUMENTS, AND DOES NOT NECESSARILY REPRESENT THE AS-CONSTRUCTED CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, ELEVATIONS AND DETAILING OF THE EXISTING STRUCTURES PRIOR TO UNDERTAKING ANY WORK THAT IS AFFECTED BY THE EXISTING STRUCTURE. NOTIFY ENGINEER IF CONDITIONS VARY FROM THAT SHOWN PRIOR TO STARTING WORK.

INSPECTION AND TESTING

1. SPECIAL INSPECTION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR INSPECTIONS REQUIRED BY THE BUILDING OFFICIAL. THE CONTRACTOR SHALL SCHEDULE BOTH INSPECTIONS.
2. SPECIFIED CONCRETE AND MASONRY AND OTHER MATERIAL TESTING RELATED TO SPECIAL INSPECTION DURING CONSTRUCTION WILL BE OWNER FURNISHED.
3. SPECIFIED LABORATORY TEST MIXES AND SIMILAR TEST RESULTS TO VERIFY MATERIAL QUALITY AND CONFORMANCE TO SPECIFICATIONS, AND SUBMITTED FOR REVIEW PRIOR TO ACCEPTANCE FOR USE ON THE PROJECT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. SPECIAL INSPECTION, TESTING AND OBSERVATION (OWNER FURNISHED) IS REQUIRED IN ACCORDANCE WITH IBC SECTIONS 110 AND 1704 AS INDICATED IN THE STATEMENT OF SPECIAL INSPECTIONS.

FRAMEWORK, SHORING, AND BRACING

1. STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONDITIONS ONLY. DESIGN SHOWN DOES NOT INCLUDE NECESSARY COMPONENTS OR EQUIPMENT FOR STABILITY OF THE STRUCTURES DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR WORK RELATING TO CONSTRUCTION ERECTION METHODS, BRACING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM THE WORK SHOWN.
2. TEMPORARY SHORING SHALL REMAIN IN PLACE UNTIL ELEVATED CONCRETE FLOOR OR SLABS HAVE REACHED 80 PERCENT OF THE 28 DAY COMPRESSIVE STRENGTH AS DETERMINED BY FIELD CYLINDER BREAKS.
3. "BURY"BARS OR "CARRIER"BARS ARE NOT ALLOWED FOR THE BOTTOM MATS OF REINFORCING IN ALL ELEVATED SLABS AND ARE NOT ALLOWED FOR THE TOP MATS OF REINFORCING IN ELEVATED SLABS LESS THAN 12 INCHES THICK.

CONCRETE REINFORCING

1. REINFORCING STEEL:
   TYPICAL: ASTM A615, GRADE 60
   WELDED: ASTM A706, GRADE 60 (WELDING IS ONLY PERMITTED WITH WRITTEN PERMISSION FROM ENGINEER)
2. FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CRSI MSP-1 "MANUAL OF STANDARD PRACTICE"AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
3. MINIMUM REINFORCING FOR CONCRETE WALLS AND SLABS SHALL BE AS FOLLOWS:

THICKNESS	REINF EACH WAY	LOCATION
6"	#4@12"	CENTERED
8"	#5@12"	CENTERED
10"	#4@12"	EACH FACE
12"	#5@12"	EACH FACE

   PROVIDE LARGER SIZES AND MORE REINFORCING IN SECTIONS OF CONCRETE WHERE REQUIRED BY THE DETAILS ON THE DRAWINGS OR BY THE SPECIFICATIONS.
4. CONCRETE COVER FOR REINFORCING, UNLESS SHOWN OTHERWISE, SHALL BE:

WHEN CAST AGAINST EARTH:	3"
EXPOSED TO OZONE OR OZONATED WATER:	3"
INTERIOR, DRY, HUMIDITY CONTROLLED AREAS:	
WALLS, SLABS AND JOISTS	
BEAM STIRRUPS AND COLUMN TIES	
CONCRETE EXPOSED TO EARTH, LIQUID, WASHDOWN, OR WEATHER:	
WALLS AND SLABS	2"
BEAM STIRRUPS AND COLUMN TIES	2"
BEAM AND COLUMN PRIMARY REINFORCING	2 1/2"

5. 90 DEGREE BENDS, UNLESS OTHERWISE SHOWN, SHALL BE ACI 318 STANDARD HOOKS.
6. REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS:

CONCRETE DESIGN STRENGTH = 4,000 PSI MIN AT 28 DAYS[3] GRADE 60 REINFORCING STEEL										
BAR SIZE		#3	#4	#5	#6	#7	#8	#9	#10	#11
LAP SPLICE LENGTH										
SPACING = 3"	TOP BAR [2]	1'-4"	1'-8"	2'-1"	3'-0"	5'-2"	6'-8"	8'-6"	10'-10"	13'-4"
	OTHER BAR	1'-4"	1'-4"	1'-8"	2'-4"	4'-0"	5'-2"	6'-7"	8'-4"	10'-3"
SPACING = 4"	TOP BAR [2]	1'-4"	1'-8"	2'-0"	2'-5"	3'-10"	5'-0"	6'-5"	8'-1"	10'-0"
	OTHER BAR	1'-4"	1'-4"	1'-7"	1'-10"	3'-0"	3'-11"	4'-11"	6'-3"	7'-8"
SPACING ≥ 6"	TOP BAR [2]	1'-4"	1'-8"	2'-0"	2'-5"	3'-6"	4'-0"	5'-0"	6'-2"	7'-5"
	OTHER BAR	1'-4"	1'-4"	1'-7"	1'-10"	2'-9"	3'-1"	3'-10"	4'-9"	5'-8"
EMBEDMENT LENGTH										
SPACING = 3"	TOP BAR [2]	1'-0"	1'-3"	1'-8"	2'-4"	4'-0"	5'-2"	6'-7"	8'-4"	10'-3"
	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-10"	3'-1"	4'-0"	5'-1"	6'-5"	7'-11"
SPACING = 4"	TOP BAR [2]	1'-0"	1'-3"	1'-7"	1'-10"	3'-0"	3'-11"	4'-11"	6'-3"	7'-8"
	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-5"	2'-4"	3'-0"	3'-10"	4'-10"	5'-11"
SPACING ≥ 6"	TOP BAR [2]	1'-0"	1'-3"	1'-7"	1'-10"	2'-9"	3'-1"	3'-10"	4'-9"	5'-8"
	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-5"	2'-1"	2'-5"	3'-0"	3'-8"	4'-5"

1. LAP LENGTHS ARE BASED ON MINIMUM CONCRETE COVER OF 2". LONGER LENGTHS ARE REQUIRED FOR CONCRETE COVER LESS THAN 2".
2. TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.
3. WHERE 3000 PSI CONCRETE IS USED, INCREASE ABOVE LENGTHS BY 16 PERCENT. WHERE 3500 PSI CONCRETE IS USED, INCREASE ABOVE LENGTHS BY 7 PERCENT.

CAST IN PLACE CONCRETE

1. 28-DAY COMPRESSIVE STRENGTHS (TO MEET STRUCTURAL STRENGTH REQUIREMENTS):
   BUILDING STRUCTURES: 5000 PSI
2. 56-DAY COMPRESSIVE STRENGTHS (TO MEET DURABILITY REQUIREMENTS OF ACI 318 AND ACI 350):
   BUILDING STRUCTURES: 5000 PSI
3. DESIGN STRENGTHS ARE SAME AS 28-DAY COMPRESSIVE STRENGTHS.
4. CONTINUOUS WATERSTOP AS SPECIFIED SHALL BE INSTALLED IN CONSTRUCTION JOINTS OF HYDRAULIC STRUCTURES, CHANNELS, AND BELOW GRADE STRUCTURES, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.
5. CONSTRUCTION JOINTS INDICATED ARE SUGGESTED LOCATIONS. CONTRACTOR MAY REVISE LOCATION OF JOINTS, SUBJECT TO SPECIFIED REQUIREMENTS. LAYOUT SHOWING ALL CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED FOR REVIEW BY ENGINEER.
6. ROUGHEN AND CLEAN CONSTRUCTION JOINTS IN WALLS AND SLABS AS SPECIFIED PRIOR TO PLACING ADJACENT CONCRETE.
7. COORDINATE PLACEMENT OF OPENINGS, PIPE PENETRATIONS, CURBS, DOWELS, SLEEVES, CONDUITS, BOLTS AND INSERTS PRIOR TO PLACEMENT OF CONCRETE.
8. NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO THE CONCRETE SHALL BE EMBEDDED IN THE CONCRETE.
9. DO NOT PLACE CONDUIT PARALLEL TO BEAM OR COLUMN REINFORCEMENT UNLESS SPECIFICALLY INDICATED IN DRAWINGS.

WELDING

1. WELDS SHALL CONFORM TO AMERICAN WELDING SOCIETY (AWS):
   D1.1, STRUCTURAL WELDING CODE STEEL
   D1.2, STRUCTURAL WELDING CODE ALUMINUM
   D1.3, STRUCTURAL WELDING CODE SHEET STEEL
   D1.4, STRUCTURAL WELDING CODE REINFORCING STEEL
   D1.6, STRUCTURAL WELDING CODE STAINLESS STEEL
2. REPAIR WELDS FOUND DEFECTIVE IN ACCORDANCE WITH AWS D1.1 SECTION 5.26.
3. USE INTERMITTENT WELDS AT FIELD WELDS OF EMBED PLATES AND ANGLES TO AVOID SPALLING OR CRACKING OF THE EXISTING CONCRETE.
4. BUTT JOINT WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) UNLESS INDICATED OTHERWISE.

STRUCTURAL STEEL AND METAL FABRICATION

1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:

W-SHAPES	A992
MISCELLANEOUS SHAPES INCLUDING ANGLES, CHANNELS, PLATES, ETC.	A572, GRADE 50
HOLLOW STRUCTURAL SECTIONS (HSS)	A500, GRADE C
STEEL PIPE	A53, GRADE B
STAINLESS STEEL SHAPES	A276

2. ALUMINUM SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:

STRUCTURAL SHAPES	B308
PLATES	B209

3. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, CURRENT EDITION, AND CURRENT OSHA STANDARDS.
4. FASTENERS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO THE FOLLOWING ASTM STANDARDS EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE:

UNLESS SHOWN OTHERWISE	A325-N
TENSION CONTROL (TC) BOLTS	ASTM A325 AND ASTM F1852
ANCHOR BOLTS (AB)	
STAINLESS STEEL	F593, AISI TYPE 316, CONDITION CW
STEEL OR GALVANIZED STEEL	F1554, GR 36 / A153
MACHINE BOLTS (MB)	
STEEL	A307
STAINLESS STEEL	F593, AISI TYPE 316, CONDITION CW
GALVANIZED STEEL	A307 / A153
ALUMINUM	F468, ALLOY 2024-T4

5. ITEMS TO BE EMBEDDED IN CONCRETE SHALL BE CLEAN AND FREE OF OIL, DIRT AND PAINT.
6. NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS. NO CUTTING OR BURNING OF STRUCTURAL STEEL IS PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.

DEFERRED SUBMITTALS

1. DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF PERMIT APPLICATION AND WHICH ARE TO BE SUBMITTED TO THE PERMITTING AGENCY FOR ACCEPTANCE PRIOR TO INSTALLATION OF THAT PORTION OF THE WORK OR ARE REQUIRED TO BE SUBMITTED FOR REVIEW ONLY BY THE ENGINEER.
2. WHERE DEFERRED SUBMITTALS INCLUDE ADDITIONAL MATERIALS, INSTALLATION, ANCHORAGE, OR CERTIFICATION OF COMPONENTS THAT REQUIRE SPECIAL INSPECTION AND/OR STRUCTURAL OBSERVATION TO MEET CODE REQUIREMENTS, THE DEFERRED SUBMITTAL SHALL INCLUDE SPECIFIC LINE ITEMS TO BE ADDED TO THE APPROPRIATE TABLES IN THE PROJECT'S STATEMENT OF SPECIAL INSPECTIONS PLAN IF THEY ARE NOT ALREADY IDENTIFIED.
3. THE FOLLOWING IS A LIST OF DEFERRED SUBMITTALS PER IBC SECTION 107.3.4.1 OF 2018 IBC THAT ARE EXPECTED TO CONTAIN STRUCTURAL CALCULATIONS FOR SAFETY RELATED SYSTEM INFORMATION FOR REVIEW TO MEET BUILDING PERMITTING REQUIREMENTS FOR DESIGNED SYSTEMS. PRIOR TO INSTALLATION OF THE INDICATED STRUCTURAL ELEMENT, EQUIPMENT, DISTRIBUTION SYSTEM, OR COMPONENT OR ITS ANCHORAGE. THE CONTRACTOR SHALL SUBMIT THE REQUIRED CALCULATIONS AND SUPPORTING DATA AND DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER. ADDITIONALLY, ACCEPTANCE INDICATED ON THE ENGINEER'S COMMENT FORM, ALONG WITH THE COMPLETED, FINAL SUBMITTAL SHALL THEN BE SUBMITTED BY THE CONTRACTOR TO THE PERMITTING AGENCY AND APPROVED PRIOR TO INSTALLATION OF THESE ITEMS.

SPECIFICATION SECTION	CODE REQUIRED DEFERRED SUBMITTALS FOR REVIEW BY PERMITTING AGENCY
01 88 15	ANCHORAGE AND BRACING
05 52 16	ALUMINUM RAILINGS
06 82 00	GLASS-FIBER-REINFORCED PLASTIC
40 05 15	PIPING SUPPORT SYSTEMS
OTHER	ANY EQUIPMENT OR COMPONENT IN WHICH A TECHNICAL SPECIFICATION REQUIRES SUBMITTAL OF EQUIPMENT OR ANCHORAGE SYSTEM CALCULATIONS

Jacobs

NO.	DATE	REVISION	BY

DESIGNED: KM
DRAWN: KSB
CHECKED: RF
APPROVED: HL

SHEET G-0040
11 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 91107E — Digital Signature — KRISTINA WALL — 2026.01.26 — EXP. 12-31-26

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: GENERAL - STRUCTURAL GENERAL NOTES
LOCATION: IN THE CITY OF GRESHAM

CITY OF GRESHAM
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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STATEMENT OF SPECIAL INSPECTIONS

GENERAL NOTES

1. THE STATEMENT OF SPECIAL INSPECTIONS PROVIDE PROJECT COMPLIANCE WITH THE PROVISIONS OF THE 2024 INTERNATIONAL BUILDING CODE (IBC) CHAPTER 17 FOR SPECIAL INSPECTION, STRUCTURAL OBSERVATION, AND TESTING FOR WIND AND SEISMIC RESISTANCE AS APPLICABLE. EXCEPT WHERE OTHERWISE NOTED, THIS INSPECTION IS OWNER FURNISHED.
2. STANDARD SPECIAL INSPECTION REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS ARE CONTAINED IN TABLE 1.
3. STANDARD SPECIAL INSPECTION REQUIREMENTS FOR STRUCTURAL COMPONENTS, REGARDLESS OF WIND OR SEISMIC DESIGN CATEGORIES, ARE CONTAINED IN TABLE 2. STANDARD TESTING REQUIREMENTS FOR STRUCTURAL COMPONENTS ARE CONTAINED IN TABLE 3.
4. PROJECT SPECIFIC REQUIREMENTS FOR STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORIES C, D, E, OR F ARE CONTAINED IN TABLE 4. ADDITIONAL TESTING REQUIREMENTS FOR STRUCTURAL RESISTANCE ARE CONTAINED IN TABLE 6.
5. PROJECT SPECIFIC REQUIREMENTS FOR STRUCTURES SUBJECT TO BASIC DESIGN WIND SPEED (V) IN EXCESS OF 140 MPH ARE CONTAINED IN TABLE 5.
6. FOR ADDITIONAL REQUIREMENTS, REFER TO SPECIFICATION SECTION 01 45 33, SPECIAL INSPECTION, OBSERVATION, AND TESTING. THESE INCLUDE:
   - A. CONTRACTOR'S REQUIREMENTS TO PROVIDE ACCESS TO THE WORK FOR REQUIRED INSPECTIONS, AND TO PROVIDE NOTICE OF REQUIRED INSPECTIONS AND STRUCTURAL OBSERVATION.
   - B. CONTRACTOR'S STATEMENT OF RESPONSIBILITY FOR WORK TO BE PERFORMED ON SYSTEMS DESIGNATED UNDER THE STATEMENT OF SPECIAL INSPECTIONS FOR WIND OR SEISMIC RESISTANCE.
   - C. DEFINITIONS AND TERMINOLOGY USED IN THIS STATEMENT OF SPECIAL INSPECTIONS.

SPECIAL INSPECTION

1. SPECIAL INSPECTION WILL BE IN ACCORDANCE WITH IBC SECTIONS 1705 TOGETHER WITH LOCAL AND STATE AMENDMENTS. REFER TO THE FOLLOWING TABLES FOR PROJECT SPECIFIC INSPECTION TYPES AND FREQUENCIES.
2. SPECIAL INSPECTIONS WILL BE PROVIDED BY A CERTIFIED OR QUALIFIED INSPECTOR AND ASSOCIATED TESTING WILL BE PERFORMED BY AN APPROVED ACCREDITED INDEPENDENT AGENCY. THE OWNER WILL SECURE AND PAY FOR THE SERVICES OF THE AGENCY TO PERFORM ALL SPECIAL INSPECTION AND ASSOCIATED TESTS. INSPECTORS FOR EACH SYSTEM AND MATERIAL WILL BE INTERNATIONAL CODE COUNCIL (ICC) CERTIFIED OR OTHERWISE APPROVED BY THE BUILDING OFFICIAL.
3. THE SPECIAL INSPECTOR WILL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONTRACT DOCUMENTS AND SUBMIT RECORDS OF INSPECTION. ALL DISCREPANCIES WILL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
4. SPECIAL INSPECTION AND ASSOCIATED TESTING REPORTS WILL BE SUBMITTED TO THE ENGINEER, CONTRACTOR, BUILDING OFFICIAL, AND OWNER WITHIN ONE WEEK OF INSPECTION OR WITHIN ONE WEEK OF TEST COMPLETION. INSPECTIONS FOR WHICH REPORTING WILL BE REQUIRED ARE NOTED IN THE FOLLOWING TABLES.
5. AT THE CONCLUSION OF CONSTRUCTION, A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF PREVIOUSLY NOTED DISCREPANCIES WILL BE SUBMITTED.

SPECIAL INSPECTIONS FOR WIND RESISTANCE

1. SPECIAL INSPECTIONS REQUIREMENTS FOR WIND RESISTANCE IN ACCORDANCE WITH IBC SECTION 1705.12 ARE NOT APPLICABLE TO THIS PROJECT.

SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

1. SPECIAL INSPECTIONS REQUIREMENTS FOR SEISMIC RESISTANCE WILL BE IN ACCORDANCE WITH IBC SECTION 1705.13 AND 1705.14 TOGETHER WITH LOCAL AND STATE AMENDMENTS. REFER TO INDIVIDUAL STRUCTURE DRAWINGS FOR BASIC SEISMIC-FORCE-RESISTING SYSTEMS FOR EACH STRUCTURE AND DESIGNATED SEISMIC DESIGN CATEGORY.
2. SPECIAL INSPECTIONS REQUIREMENTS FOR SEISMIC RESISTANCE SHALL APPLY TO THE SYSTEMS AND COMPONENTS LISTED IN TABLE 4.

TABLE 1
REQUIRED NON-STRUCTURAL SPECIAL INSPECTION
REFER TO SPECIFICATION SECTION 01 45 33

SYSTEM OR MATERIAL	2024 IBC CODE REFERENCE	REFERENCED STANDARD	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	COMMENTS	TESTING FOR SPECIAL INSPECTION
GENERAL						
1. CONSTRUCTION MATERIALS AND SYSTEMS THAT ARE ALTERNATIVES TO MATERIALS AND SYSTEMS PRESCRIBED BY CODE	1705.1.1 ITEM 1		X			
2. UNUSUAL DESIGN APPLICATION OF CODE MATERIALS	1705.1.1 ITEM 2			X		
3. INSTALLATION OF MATERIALS THAT REQUIRE ADDITIONAL MANUFACTURER'S INSTRUCTIONS BEYOND CODE REQUIREMENTS	1703.4.2, 1705.1.1 ITEM 3	ICC-ES EVALUATION REPORTS		X		
STRUCTURAL						
SEE TABLE 2.						

NOTES:
1. PERIODIC INSPECTION IS DEFINED AS INSPECTION BY THE SPECIAL INSPECTOR OF ALL MATERIALS AND SYSTEMS, IN SOME CASES PERFORMED DURING THEIR PLACEMENT AND IN ALL CASES PERFORMED UPON COMPLETION OF THEIR PLACEMENT. THE COMPLETION INSPECTION SHALL BE PERFORMED SO THAT WORK CAN BE CORRECTED PRIOR TO OTHER RELATED WORK PROCEEDING AND COVERING

TABLE 2
REQUIRED STRUCTURAL SPECIAL INSPECTION
REFER TO SPECIFICATION SECTION 01 45 33

SYSTEM	2024 IBC CODE REFERENCE	REFERENCED STANDARD	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	COMMENTS	TESTING FOR SPECIAL INSPECTION
CONCRETE						
1. REINFORCING BAR WELDING						
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	1705.3	AWS D1.4 ACI 318: 26.6.4.2, 26.13.1.4	X			
B. INSPECT WELDING OF REINFORCEMENT FOR SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS, AND COUPLING BEAMS	1705.3	AWS D1.4 ACI 318: 26.13.3		X		
C. INSPECT WELDED REINFORCEMENT SPLICES	1705.3	AWS D1.4 ACI 318: 26.13.3		X		
D. INSPECT WELDING OF PRIMARY TENSION REINFORCEMENT IN CORBELS	1705.3	AWS D1.4 ACI 318: 26.6.4.1, 26.13.3		X		
E. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	1705.3	AWS D1.4 ACI 318: 26.13.3	X			
F. INSPECT ALL OTHER WELDS	1705.3	AWS D1.4 ACI 318: 26.13.3		X		
2. INSPECT ANCHORS CAST IN CONCRETE	1705.3	ACI 318: 26.13.3.3	X			
3. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS						
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	1705.3	ACI 318: 26.13.3.2, ICC-ES EVALUATION REPORTS		X		
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 3.A.	1705.3	ACI 318: 26.13.3.3, ICC-ES EVALUATION REPORTS	X			
4. VERIFY USE OF REQUIRED DESIGN MIX	1705.3, 1904.1, 1904.2, 1908.1	ACI 318: Ch. 19, 26.4.3, 26.4.4	X			
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	1705.3, 1908.1	ASTM C 172, ASTM C 31, ACI 318: 26.5, 26.12		X		SEE TABLE 3 FOR CONCRETE TEST REQUIREMENTS
6. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	1705.3, 1908.1	ACI 318: 26.5		X		
7. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	1705.3, 1908.1	ACI 318: 26.5.3-26.5.5	X			
8. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	1705.3	ACI 318: 26.11.1.2(b)	X			
9. INSPECTION OF WATERSTOPS FOR PROPER SHAPE, LOCATION, JOINT QUALITY, AND SURROUNDING CONCRETE PLACEMENT		ACI: 26.5.6.2	X			
10. VERIFY PROPER INSTALLATION OF MECHANICAL REINFORCING SPLICES AND CONNECTIONS	1705.1.1 ITEM 3, 1705.3	ICC-ES EVALUATION REPORTS	X			
STRUCTURAL STEEL						
1. MATERIAL VERIFICATION OF STRUCTURAL STEEL:						
A. IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	1705.2.1, 2202.1	Applicable ASTM Material Standards	X			
B. MANUFACTURER'S CERTIFIED TEST REPORTS	1705.2.1	AISC 360: Sec. N3.2, N5.2	X			

TABLE 2
REQUIRED STRUCTURAL SPECIAL INSPECTION
REFER TO SPECIFICATION SECTION 01 45 33

SYSTEM	2024 IBC CODE REFERENCE	REFERENCED STANDARD	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	COMMENTS	TESTING FOR SPECIAL INSPECTION
STRUCTURAL STEEL (CONTINUED)						
2. PRIOR TO BOLTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:						
A. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	1705.2.1	AISC 360: Sec. N3.2, N5.2, N5.6 RCSC: Sec. 2.1, 9.1		X		
B. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	1705.2.1	AISC 360: Sec. N3.2, N5.2, N5.6 Applicable ASTM Material Standards	X			
C. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	1705.2.1	AISC 360: Sec. N5.6 RCSC: Sec. 3.2, 4	X			
D. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	1705.2.1	AISC 360: Sec. N5.6 RCSC: Sec. 7	X			
E. PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	1705.2.1	AISC 360: Sec. N5.6 RCSC: Sec. 2.2	X			
3. VERIFY DURING BOLTING:						
A. FASTENER ASSEMBLIES PLACED IN ALL HOLES, AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	1705.2.1	AISC 360: Sec. N5.6	X			
B. JOINT BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	1705.2.1	AISC 360: Sec. N5.6	X			
C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	1705.2.1	AISC 360: Sec. N5.6	X			
4. PRIOR TO WELDING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:						
A. APPROVED WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1	X			
B. APPROVED WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE TO WELDERS AND WELDING INSPECTOR(S)	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1		X		
C. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1		X		

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DATE	NO.	REVISION	BY

DESIGNED: KM
DRAWN: KSB
CHECKED: RF
APPROVED: HL

SHEET G-0041
12 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 89197PE — Digital Signature — KRISTINA WALKER — 2026.01.26 — EXP: 12-31-26

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: GENERAL - STRUCTURAL STATEMENT OF SPECIAL INSPECTIONS - 1

LOCATION: IN THE CITY OF GRESHAM

CITY OF GRESHAM
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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REUSE OF DOCUMENTS:

TABLE 2
REQUIRED STRUCTURAL SPECIAL INSPECTION
REFER TO SPECIFICATION SECTION 01 45 33

SYSTEM	2024 IBC CODE REFERENCE	REFERENCED STANDARD	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	COMMENTS	TESTING FOR SPECIAL INSPECTION
STRUCTURAL STEEL (CONTINUED)						
D. MATERIAL IDENTIFICATION (TYPE/GRADE)	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1	X			
E. WELDER IDENTIFICATION SYSTEM	1705.2.1	AISC 360: Sec. N5.4	X			
F. FIT-UP OF WELDS (INCLUDING JOINT GEOMETRY)	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1	X		NOTE 2	ALSO SEE REQUIREMENTS OF SPEC. SECTION 05 05 23
G. CONFIGURATION AND FINISH OF ACCESS HOLES	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1	X		NOTE 2	ALSO SEE REQUIREMENTS OF SPEC. SECTION 05 05 23
5. VERIFY DURING WELDING:						
A. CONTROL AND HANDLING OF WELDING CONSUMABLES	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1	X			
B. NO WELDING OVER CRACKED TACK WELDS	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1	X		NOTE 2	
C. ENVIRONMENTAL CONDITIONS	1705.2.1	AISC 360: Sec. N5.4	X			
D. COMPLIANCE WITH WPS REQUIREMENTS	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1	X		NOTE 2	ALSO SEE REQUIREMENTS OF SPEC. SECTION 05 05 23 AND TABLE 3 FOR STRUCTURAL STEEL TEST REQUIREMENT
E. WELDING TECHNIQUES	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1	X			
F. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1		X		
6. AFTER WELDING, VERIFY THE FOLLOWING:						
A. WELDS CLEANED	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1	X			
B. SIZE, LENGTH AND LOCATION OF WELDS	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1	X		NOTE 2	
C. WELDS MEET VISUAL ACCEPTANCE CRITERIA	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1	X		NOTE 2	ALSO SEE REQUIREMENTS OF SPEC. SECTION 05 05 23
D. ARC STRIKES	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1	X			
E. K-AREA	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1	X			
F. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1	X			
G. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1	X			
H. REPAIR ACTIVITIES	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1	X			
I. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	1705.2.1	AISC 360: Sec. N5.4 AWS D1.1	X			
J. NONDESTRUCTIVE WELDING INSPECTION	1705,2	AISC 360: Sec. N5.5 AWS D1.1	X		NOTE 2	ALSO SEE REQUIREMENTS OF SPEC. SECTION 05 05 23
7. INSPECTION OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS FOR CRACKS SUBSEQUENT TO GALVANIZING	1705.2.1	AISC 360: Sec. N5.7	X			
8. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:						
A. DETAILS SUCH AS BRACING AND STIFFENING	1705.2.1	AISC 360: Sec. N5.8	X			
B. MEMBER LOCATIONS	1705.2.1	AISC 360: Sec. N5.8	X			
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	1705.2.1	AISC 360: Sec. N5.8	X			

TABLE 2
REQUIRED STRUCTURAL SPECIAL INSPECTION
REFER TO SPECIFICATION SECTION 01 45 33

SYSTEM	2024 IBC CODE REFERENCE	REFERENCED STANDARD	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	COMMENTS	TESTING FOR SPECIAL INSPECTION
ALUMINUM						
1. MATERIAL VERIFICATION OF ALUMINUM:						
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	1705.1.1 ITEM 2		X			
B. MANUFACTURERS' CERTIFIED MILL TEST REPORTS	1705.1.1 ITEM 2		X			
2. INSPECTION OF WELDING:						
A. NONDESTRUCTIVE INSPECTION	1705.1.1 ITEM 2	AWS D1.2	X		NOTE 2	ALSO SEE REQUIREMENTS OF SPEC. SECTION 05 05 23

NOTES:
1. PERIODIC INSPECTION IS DEFINED AS INSPECTION BY THE SPECIAL INSPECTOR OF ALL MATERIALS AND SYSTEMS, IN SOME CASES PERFORMED DURING THEIR PLACEMENT AND IN ALL CASES PERFORMED UPON COMPLETION OF THEIR PLACEMENT. THE COMPLETION INSPECTION SHALL BE PERFORMED SO THAT WORK CAN BE CORRECTED PRIOR TO OTHER RELATED WORK PROCEEDING AND COVERING INSPECTED WORK.

2. VISUAL INSPECTION IS THE RESPONSIBILITY OF THE CONTRACTOR'S WELDING INSPECTOR(S) AND IS NOT CONSIDERED SPECIAL INSPECTION. CONTRACTOR MUST PROVIDE A QUALIFIED WELDING INSPECTOR TO OVERSEE CONTRACTOR'S WELDING OPERATIONS, AS REQUIRED BY SPECIFICATION SECTION 05 05 23 AND REFERENCED WELDING CODES.

3. SPECIAL INSPECTOR TO OBSERVE ON AN INTERMITTENT BASIS SUFFICIENT TO CONFIRM THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

TABLE 3
TESTING FOR REQUIRED SPECIAL INSPECTION
REFER TO SPECIFICATION SECTION 01 45 33

MATERIAL	TYPE OR SCOPE	STANDARD	2024 IBC CODE REFERENCE	FREQUENCY	BY WHOM	COMMENTS
CONCRETE						
CONCRETE	STRENGTH	ASTM C39	1705.3, 1903.1, 1904.1	ONCE EACH DAY, BUT NOT LESS THAN ONE SAMPLE FOR EACH 150 CUBIC YARDS OR 5,000 SFT OF WALLS OR SLABS PLACED	OWNER'S TESTING AGENCY	
CONCRETE	SLUMP	ASTM C143, C94	1705.3, 1903.1, 1904.1	ONE SAMPLE PER STRENGTH TEST	OWNER'S TESTING AGENCY	
CONCRETE	AIR CONTENT	ASTM C231, C94	1705.3, 1903.1, 1904.1	ONE SAMPLE PER STRENGTH TEST	OWNER'S TESTING AGENCY	
CONCRETE	TEMPERATURE	ASTM C1064	1705.3, 1903.1, 1904.1	ONE SAMPLE PER STRENGTH TEST	OWNER'S TESTING AGENCY	
STEEL						
STRUCTURAL STEEL	ULTRASONIC OR RADIOGRAPHIC NONDESTRUCTIVE TESTING	AWS D1.1	1705,2	SECTION 05 05 23, WELDING	OWNER'S TESTING AGENCY	PERFORM RT OR UT ON GROOVE WELDS
REINFORCING STEEL	MAGNETIC PARTICLE NONDESTRUCTIVE TESTING	AWS D1.4	1705,3	SECTION 05 05 23, WELDING	OWNER'S TESTING AGENCY	PERFORM ON FILLET WELDS AND PARTIAL JOINT PENETRATION WELDS

TABLE 4
REQUIRED SPECIAL INSPECTION FOR SEISMIC RESISTANCE FOR STRUCTURAL SYSTEMS
REFER TO TABLE 2 FOR STANDARD STRUCTURAL SPECIAL INSPECTION REQUIREMENTS
REFER TO SPECIFICATION SECTION 01 45 33

The Seismic Design Category (SDC) for this Project is D.

SYSTEM	INSPECTION REQUIRED FOR FOLLOWING SEISMIC DESIGN CATEGORIES	2024 IBC CODE REFERENCE	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	COMMENTS	TESTING FOR SPECIAL INSPECTION
PROCESS MECHANICAL						
INSTALLATION OF PIPING SYSTEMS MEANT TO CARRY HAZARDOUS MATERIALS AND ITS ASSOCIATED MECHANICAL UNITS	"C" AND ABOVE	1705.13.6 ITEM 3	X			
INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED MECHANICAL SYSTEMS AND THEIR COMPONENTS	"B" AND ABOVE	1705.14.2	X		NOTES 2 & 3	SEE TABLE 6

NOTES:
1. PERIODIC INSPECTION IS DEFINED AS INSPECTION BY THE SPECIAL INSPECTOR OF ALL MATERIALS AND SYSTEMS, IN SOME CASES PERFORMED DURING THEIR PLACEMENT AND IN ALL CASES PERFORMED UPON COMPLETION OF THEIR PLACEMENT. THE COMPLETION INSPECTION SHALL BE PERFORMED SO THAT WORK CAN BE CORRECTED PRIOR TO OTHER RELATED WORK PROCEEDING AND COVERING INSPECTED WORK.

2. TESTING OF SYSTEMS AND THEIR ANCHORAGE SHALL BE IN CONFORMANCE WITH 2024 IBC SECTION 1705.14.2.

3. CERTIFICATION OF SYSTEMS AND THEIR ANCHORAGE SHALL BE IN CONFORMANCE WITH 2024 IBC SECTION 1705.14.3.

TABLE 5
REQUIRED SPECIAL INSPECTION FOR WIND RESISTANCE FOR STRUCTURAL SYSTEMS
REFER TO SPECIFICATION SECTION 01 45 33

TABLE IS NOT APPLICABLE TO PROJECT

TABLE 6
TESTING FOR SEISMIC RESISTANCE
REFER TO SPECIFICATION SECTION 01 45 33

MATERIAL	TYPE OR SCOPE	STANDARD	2024 IBC CODE REFERENCE	FREQUENCY	BY WHOM	COMMENTS
OTHER						
NONSTRUCTURAL COMPONENTS (AND ASSOCIATED ANCHORAGES) SUBJECT TO CERTIFICATION PROVISIONS OF ASCE 7 SECTION 13.2.1	CERTIFICATE OF COMPLIANCE	ASCE 7 SECTION 13.2.1	1705.14.2	EACH SYSTEM OR COMPONENT	MANUFACTURER	NOTE 1
DESIGNATED SEISMIC SYSTEM COMPONENTS (AND ASSOCIATED ANCHORAGES) SUBJECT TO PROVISIONS OF ASCE 7 SECTION 13.2.3	CERTIFICATE OF COMPLIANCE	ASCE 7 SECTION 13.2.3	1705.14.3	EACH SYSTEM OR COMPONENT	MANUFACTURER	NOTE 1

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DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

CITY OF GRESHAM

NO.	DATE	REVISION	BY

DESIGNED: KM
DRAWN: KSB
CHECKED: RF
APPROVED: HL

SHEET G-0042
13 OF 110

REGISTERED PROFESSIONAL ENGINEER
STATE OF OREGON
91107PE
Digital Signature
KRISTINA WELLS
EXP. 12-31-26

SCALE VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: GENERAL - STRUCTURAL STATEMENT OF SPECIAL INSPECTIONS - 2

LOCATION: IN THE CITY OF GRESHAM

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PIPE AND FITTING SYMBOLS

DOUBLE LINE	SINGLE LINE	
		EXISTING PIPE
		NEW PIPE
		EXISTING PIPE TO BE ABANDONED
		EXISTING PIPE TO BE REMOVED
		WELDED JOINT
		GROOVED END JOINT
		FLANGED JOINT
		MECHANICAL JOINT & PROPRIETARY RESTRAINED JOINT
		BELL & SPIGOT JOINT (LEADED)
		HUB & SPIGOT JOINT (RUBBER GASKET)
		BALL JOINT
		ADAPTER SIDE GROOVED END ADAPTER FLANGE
		FLANGED COUPLING ADAPTER
		FLEXIBLE COUPLING
		METAL BELLOWS EXP JOINT
		ELASTOMER BELLOWS EXP JOINT
		ELBOW UP
		ELBOW DOWN
		TEE UP
		TEE DOWN
		LATERAL UP
		LATERAL DOWN
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER

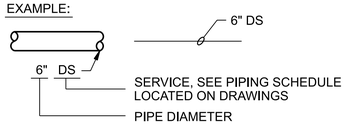
DOUBLE LINE	SINGLE LINE	
		REDUCING BUSHING
		UNION
		CAP
		ANCHOR
		ELBOW, 90 DEGREE
		CROSS
		TEE
		ELBOW, 45 DEGREE
		LATERAL

NOTES:

1. ONLY FLANGED END CONNECTIONS ARE SHOWN HERE FOR DOUBLE LINE FITTINGS. FITTINGS WITH OTHER END PATTERNS ARE SHOWN SIMILARLY ON THE CONSTRUCTION DRAWINGS. ALSO SEE PIPING SPECIFICATIONS.
2. SYMBOLS SHOWN HERE FOR SINGLE LINE FITTINGS ARE GENERIC ONLY. REFER TO PIPING SPECIFICATIONS FOR SPECIFIC END CONNECTIONS FOR SINGLE LINE PIPE AND FITTINGS.
3. EXISTING PIPE AND EQUIPMENT IS SHOWN LIGHT-LINED AND/OR SCREENED AND IS NOTED AS EXISTING. NEW PIPING AND EQUIPMENT IS SHOWN HEAVY-LINED.

PIPING DESIGNATION

EXAMPLE:



VALVE SYMBOLS

SINGLE LINE	DOUBLE LINE	
		GATE
K		KNIFE GATE
		BUTTERFLY
		GLOBE
		BALL
		SEATING PORT
		ECCENTRIC PLUG
		PLUG OR COCK
		NEEDLE
		DIAPHRAGM
		PINCH
		SWING CHECK
		BALL CHECK
		HOSE VALVE (HV- X) OR (V-X) X = NO. IN SPECS
S		SAMPLE
		MUD
		PRESSURE RELIEF
		AIR AND/OR VACUUM RELEASE
		REGULATED SIDE
		PRESSURE CONTROL (INTERNAL PILOT)
		REGULATED SIDE
		PRESSURE CONTROL (EXTERNAL PILOT)
		MULTI-PORT VALVE, ARROWS INDICATE FLOW PATTERN. SEATING PORTS ARE IMPLIED BY INDICATED FLOW PATTERN.
		TELESCOPING SCUM VALVE

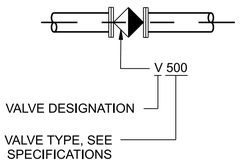
OR

ACTUATOR SYMBOLS

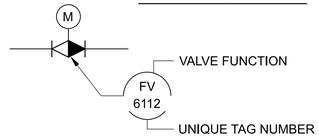
PNEUMATIC DIAPHRAGM	H HYDRAULIC
PNEUMATIC CYLINDER	MANUAL
M ELECTRIC MOTOR	S SOLENOID
	E/H ELECTRO HYDRAULIC

VALVE DESIGNATIONS

MANUAL VALVES AND CHECK VALVES



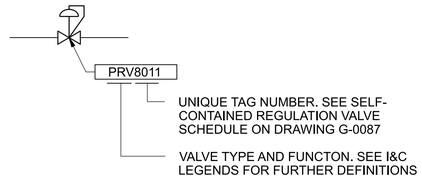
CONTROL VALVES



NOTE:

1. SEE I&C LEGENDS FOR FURTHER DEFINITIONS AND ACTUATOR TYPES.

SELF-CONTAINED REGULATING VALVES



MECHANICAL LEGEND AND NOTES

GENERIC PIPING NOTES:

1. LAY PIPE TO UNIFORM GRADE BETWEEN INDICATED ELEVATION POINTS.
2. SIZE OF FITTINGS SHOWN ON DRAWINGS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN OF PIPE, UNLESS OTHERWISE INDICATED. TYPE OF JOINT AND FITTING MATERIAL SHALL BE THE SAME AS SHOWN FOR ADJACENT STRAIGHT RUN OF PIPE.
3. LOCATION AND NUMBER OF PIPE HANGERS AND PIPE SUPPORTS SHOWN IS ONLY APPROXIMATE. CONTRACTOR SHALL DESIGN SUPPORTS AS SPECIFIED.
4. ALL JOINTS SHALL BE WATERTIGHT.
5. ALL FLEXIBLE CONNECTORS AND COUPLING ADAPTERS SHALL BE PROVIDED WITH THRUST PROTECTION AS SPECIFIED, UNLESS OTHERWISE NOTED. THRUST PROTECTION SHALL BE ADEQUATE FOR TEST PRESSURES SPECIFIED.
6. SYMBOLS, LEGENDS, AND PIPE USE IDENTIFICATIONS SHOWN SHALL BE FOLLOWED THROUGHOUT THE DRAWINGS, WHEREVER APPLICABLE. NOT ALL OF THE VARIOUS PIPING COMPONENTS ARE NECESSARILY USED IN THE PROJECT.
7. ALL BURIED PIPING SPECIFIED TO BE PRESSURE TESTED, EXCEPT FLANGED, WELDED, OR SCREWED PIPING, SHALL BE PROVIDED WITH THRUST PROTECTION AS SPECIFIED, UNLESS OTHERWISE NOTED.
8. NUMBER AND LOCATION OF UNIONS SHOWN ON DRAWINGS IS ONLY APPROXIMATE. PROVIDE ALL UNIONS NECESSARY TO FACILITATE CONVENIENT REMOVAL OF VALVES AND MECHANICAL EQUIPMENT.
9. WHERE A GROOVED END COUPLING IS SHOWN, IT SHALL BE THE RIGID JOINT TYPE, UNLESS OTHERWISE SPECIFIED. WHERE A FLANGED COUPLING ADAPTER IS SHOWN, A STANDARD FLANGE SHALL BE JOINED TO THE COUPLING ADAPTER.

Jacobs

NO.	DATE	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: JK
APPROVED: HL

SHEET G-0050
14 OF 110

REGISTERED PROFESSIONAL ENGINEER OREGON 94928PE Digital Signature BRETT W. REIS 2026.03.06 EXP.: 12/31/26

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SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: GENERAL - PROCESS MECHANICAL LEGEND

LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

PLOT TIME: 02:24
PLOT DATE: 27-FEB-2026
FILENAME: G-0050_I3838501.dwg

HVAC FLOW IDENTIFICATION

EA	EXHAUST AIR
FA	FOUL AIR
FRP	ODOR CONTROL (FIBERGLASS REINFORCED PLASTIC)
OA	OUTSIDE AIR
SA	SUPPLY AIR

HVAC EQUIPMENT IDENTIFICATION

ACC	AIR-COOLED CONDENSING UNIT
AC	AIR CONDITIONING UNIT
AFD	ADJUSTABLE FREQUENCY DRIVE
BOD	BOTTOM OF DUCT
CP	CONTROL PANEL
DF	DUCT FAN
EG-X	EXHAUST GRILLE
EF	EXHAUST FAN
ER	EXHAUST REGISTER
FD	FIRE DAMPER
FLEX	FLEXIBLE DUCT OR FLEXIBLE CONNECTION
FRP	FIBER REINFORCED PLASTIC (DUCT)
HCP	HVAC CONTROL PANEL
HUH	HYDRONIC UNIT HEATER
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
LV	LOUVER
MD	MOTORIZED DAMPER
PRV	PROCESS VENTILATOR
RG-X	RETURN GRILLE
RTU	ROOF TOP UNIT
S	SMOKE DETECTOR
SAD	SUPPLY AIR DUCT
SCF	SCRUBBER FAN
SCR	SCRUBBER
SF	SUPPLY FAN
SFF	SUPPLY FAN FILTER
SG-X	SUPPLY GRILLE
SS	STAINLESS STEEL
TG-X	TRANSFER GRILLE
VFD	VARIABLE FREQUENCY DRIVE
SR-X	SUPPLY REGISTER
VM	VENTILATION MONITORING
CD	CONTROL DAMPER
HUH	HYDRONIC UNIT HEATER
HC	HEATING COIL
PRV	POWERED ROOF VENTILATOR

X - NO. IN SPECIFICATION

AIR DISTRIBUTION LEGEND

SIZE
12"x12"
EG-1-450
TYPE CFM

BUILDING SERVICE PIPE, FITTING, AND VALVE SYMBOLS

SEE PROCESS MECHANICAL LEGEND FOR SYMBOLS

HEATING, VENTILATING, AND AIR CONDITIONING SYMBOLS

- CEILING DIFFUSER OR REGISTER (SUPPLY)
- CEILING REGISTER OR GRILLE (RETURN AND EXHAUST)
- MANUAL OPPOSED-BLADE BALANCING DAMPER
- OPPOSED BLADE DAMPER
- PARALLEL BLADE DAMPER
- M — MOTORIZED CONTROL DAMPER
- FAN
- HVAC PROPELLER FAN
- BELLOWS TYPE FLEXIBLE CONNECTION
- BACKDRAFT DAMPER
- ROOF EXHAUST FAN
- ROOF AIR INTAKE HOOD
- LOUVER
- FILTER
- SUPPLY DUCT (SECTION)
- INTAKE, RETURN, OR EXHAUST DUCT (SECTION)
- DP — DIFFERENTIAL PRESSURE SENSOR, VENDOR PROVIDED
- PSX — PRESSURE SENSOR
- S — AIR DUCT SMOKE DETECTOR
- T — TEMPERATURE SENSOR
- X — REFER TO SPECIFICATION
- SPACE PRESSURIZATION
  - \+ POSITIVE
  - \- NEGATIVE
  - N NEUTRAL

GENERAL BUILDING SERVICES NOTES

1. THIS IS A STANDARD LEGEND SHEET, THEREFORE, NOT ALL OF THE INFORMATION SHOWN MAY BE USED ON THIS PROJECT.
2. ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE NOTED.
3. ALL DUCT DIMENSIONS ARE INSIDE CLEAR.
4. VERIFY AND COORDINATE EQUIPMENT LAYOUT, SIZE, AND CONNECTING SERVICES WITH EQUIPMENT ACTUALLY SELECTED FOR INSTALLATION.
5. DO NOT SCALE DUCTWORK AND EQUIPMENT FOR SIZE.
6. COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEMS WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION.
7. COORDINATE EXACT LOCATION AND SIZES OF REQUIRED OPENINGS AND SUPPORTS FOR FURNISHED EQUIPMENT WITH THE GENERAL CONTRACTOR.
8. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR COMPLETE WORKABLE INSTALLATION.
9. ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES OR MATERIAL EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOF.
10. ALL VALVES, CONTROLS, DAMPERS, FANS, ETC. SHALL BE INSTALLED IN ACCESSIBLE LOCATION. PROVIDE ADEQUATELY SIZED ACCESS DOORS OR PANELS WHERE REQUIRED.
11. THE LOCATION OF CEILING AIR INLETS AND OUTLETS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
12. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL TESTS REQUIRED TO INSTALL COMPLETE AND OPERABLE BUILDING MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
13. POWER TO MOTORIZED DAMPERS SHALL BE BY DIV. 23 CONTRACTOR, UNLESS NOTED OTHERWISE.
14. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP OR DOWN STREAM AS RECOMMENDED BY MANUFACTURER.
15. ALL CONTROL WIRING SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND SPECIFICATIONS.
16. PROVIDE SUFFICIENT CLEARANCE AT BUILDING MECHANICAL EQUIPMENT FOR ACCESS DOORS, ACCESS PANELS, FILTER, AND COILS.
17. FOR ADDITIONAL ABBREVIATIONS AND SYMBOLS OF OTHER DIVISIONS, SEE OTHER LEGENDS.
18. CONTACT ENGINEER FOR ABBREVIATIONS USED BUT NOT SHOWN ON THIS DRAWING.
19. FOR TEST-AND-BALANCE OF PORTIONS OF HVAC SYSTEM NOT SHOWN HERE, SEE D.E.S. PROJECT NUMBER CIPWW00028.

Jacobs

NO.	DATE	REVISION	BY

DESIGNED: JS
DRAWN: PF
CHECKED: MD
APPROVED: HL

SHEET G-0060
15 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — JULY 26, 1988 — JAMES H. SAKAMOTO — 14586
Digital Signature
EXP: 06-30-26

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SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: GENERAL - BUILDING MECHANICAL LEGEND
LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

PLOT TIME: $PLOTTIME
PLOT DATE: $PLOTDATE
FILENAME: G-0060_D3838501.dwg

ONE-LINE DIAGRAM-1

SYMBOL	DESCRIPTION
	DRAWOUT AIR CIRCUIT BREAKER, LOW VOLTAGE
400	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3 POLE, UNO
AS/AF or AT/AF	CIRCUIT BREAKER, STATIC TRIP UNIT, SENSOR AMP TRIP AND FRAME RATINGS SHOWN, 3 POLE, UNO
100/M	CIRCUIT BREAKER, MAGNETIC TRIP ONLY, TRIP RATING SHOWN, 3 POLE, UNO
400 400	CIRCUIT BREAKER WITH CURRENT LIMITING FUSES, TRIP AND FUSE RATING INDICATED, 3 POLE, UNO
400 225	FUSED SWITCH, SWITCH AND FUSE CURRENT RATING INDICATED, 3 POLE, UNO
100	SWITCH, CURRENT RATING INDICATED, 3 POLE, UNO
60 (3)	FUSE, CURRENT RATING AND QUANTITY INDICATED
1	MAGNETIC STARTER WITH OVERLOAD, NEMA SIZE INDICATED, FVNR UNO
AFD	ELECTRONIC STARTER/SPEED CONTROL RVSS = REDUCED VOLTAGE SOFT STARTER AFD = AC ADJUSTABLE FREQUENCY DRIVE DC = DC ADJUSTABLE SPEED DRIVE RVAT = REDUCED VOLTAGE AUTO TRANSFORMER TYPE RVRT = REDUCED VOLTAGE REACTOR TYPE
	CABLE OR BUS CONNECTION POINT
K	KEY INTERLOCK
	SURGE ARRESTER (GAP TYPE)
10	CAPACITOR - KVAR INDICATED, 3 PHASE
3	AC MOTOR, SQUIRREL CAGE INDUCTION - HORSEPOWER INDICATED
G 500/625	GENERATOR, KW/KVA RATING SHOWN
VS V 0-600V	ANALOG METER WITH SWITCH - SCALE RANGE SHOWN V = VOLTAGE KW = KILOWATTS A = AMPERAGE KVAR = KILOVARS PF = POWER FACTOR
DPM	DIGITAL POWER METER (MULTIFUNCTION)
	UTILITY REVENUE METER
	GROUND
15 KVA 480-120/240V 1 PH	TRANSFORMER, SIZE, VOLTAGE RATINGS, AND PHASE INDICATED
	SHIELDED ISOLATION TRANSFORMER
480-120V (3)	POTENTIAL TRANSFORMER, VOLTAGE RATING AND QUANTITY INDICATED
100:5 (3)	CURRENT TRANSFORMER, RATIO(100:5) AND QUANTITY INDICATED (3)
	CONNECTION POINT TO EQUIPMENT SPECIFIED IN OTHER DIVISIONS. RACEWAY, CONDUCTOR AND CONNECTION IN THIS DIVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR

ONE-LINE DIAGRAM-2

SYMBOL	DESCRIPTION
	DRAWOUT POWER CIRCUIT BREAKER, MEDIUM VOLTAGE
	NON DRAWOUT FUSED SWITCH, MEDIUM VOLTAGE
	DRAWOUT FUSED SWITCH AND CONTACTOR, MEDIUM VOLTAGE
	DRAWOUT FUSED SWITCH AND VACUUM CONTACTOR, MEDIUM VOLTAGE
	DRAWOUT VACUUM CONTACTOR, MEDIUM VOLTAGE
	MEDIUM VOLTAGE CABLE STRESS CONE TYPE TERMINATION, OPEN TERMINATOR OR ELBOW
	SWITCH - LOAD BREAK, GROUP OPERATED, MEDIUM VOLTAGE
	SWITCH W/ARCING HORNS, MEDIUM VOLTAGE
	DISCONNECTING FUSE - SOLID MATERIAL, MEDIUM VOLTAGE
	SWITCH - HOOK STICK OPERATED, SINGLE POLE, MEDIUM VOLTAGE
	FUSE - EXPULSION, HOOK STICK OPERATED, SINGLE POLE, MEDIUM VOLTAGE
	GROUND SWITCH, GANG OPERATED
	TERMINAL BLOCK LUG
	DELTA CONNECTION
	WYE GROUNDED CONNECTION, SOLID GROUND
R or Z	WYE NEUTRAL GROUND RESISTOR OR IMPEDANCE CONNECTION
86	RELAY OR DEVICE, FUNCTION NUMBER AS INDICATED
50:5 (1)	CURRENT TRANSFORMER, ZERO SEQUENCE, RATIO AND QUANTITY INDICATED
800/1200:5 (3)	BUSHING CURRENT TRANSFORMER, MULTI-RATIO AND QUANTITY INDICATED
MO	MOTOR OPERATOR, BREAKER OR SWITCH
EUM	ENERGY MONITORING UNIT
MPR	MOTOR PROTECTION RELAY
5	PACKAGED SYSTEM OR NON-MOTOR LOAD, KW AS INDICATED

NOTES:

1. THESE ARE STANDARD LEGEND SHEETS. SOME SYMBOLS AND ABBREVIATIONS MAY APPEAR ON THE LEGEND AND NOT ON THE DRAWINGS.
2. FOR ADDITIONAL ABBREVIATIONS OF OTHER DIVISIONS (HVAC, MECHANICAL, AND STRUCTURAL/ARCHITECTURAL) SEE OTHER LEGENDS.

POWER SYSTEM PLAN-1

SYMBOL	DESCRIPTION
	CONNECTION POINT TO EQUIPMENT SPECIFIED. RACEWAY, CONDUCTOR,TERMINATION AND CONNECTION IN THIS DIVISION.
MCC-A	MAJOR ELECTRICAL COMPONENT OR DEVICE - NAME OR IDENTIFYING SYMBOL AS SHOWN.
LPXXA	PANELBOARD - SURFACE MOUNTED PANELBOARD LETTER OR NUMBER FACILITY NUMBER LP - LOW VOLTAGE PANEL DP - DISTRIBUTION PANEL
	PANELBOARD - FLUSH MOUNTED
	TERMINAL JUNCTION BOX
M	MOTOR, SQUIRREL CAGE INDUCTION
G	GENERATOR, VOLTAGE AND SIZE AS INDICATED.
LPXXA	HOME RUN - DESTINATION SHOWN
or G	EXPOSED CONDUIT AND CONDUCTORS*
or G	CONCEALED CONDUIT AND CONDUCTORS*

NOTE:
ALL UNMARKED CONDUIT RUNS CONSIST OF TWO NO. 12, ONE NO. 12 GROUND CONDUCTORS IN 3/4" CONDUIT. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF NO. 12 CONDUCTORS. CROSSHATCH WITH SUBSCRIPT "G" INDICATES GREEN GROUND WIRE.

G	CROSSHATCHES WITH BAR INDICATE NO.10 CONDUCTOR. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE.
[A1]	CONDUIT AND CONDUCTOR CALLOUT, SEE LEGEND.
	CONDUIT DOWN
	CONDUIT UP
	CONDUIT, STUBBED AND CAPPED
	CONDUIT TERMINATION AT CABLE TRAY
EX	EXISTING CONDUIT/ DUCT BANK
BD	BUS DUCT - SEE SPECIFICATIONS
CE	CONCRETE ENCASED CONDUIT
DB	DIRECT BURIED CONDUIT
FO	FIBER OPTIC CONDUIT
XXXX	CONCRETE ENCASED DUCT BANK WHERE XXXX IS THE DUCT BANK NAME. SEE CIRCUIT AND RACEWAY CODING DEFINITION
	CONCEALED CONDUIT ROUTING AREA
	CONDUIT ROUTING AREA
	CABLE TRAY
T	TRANSFORMER
J or HH	GENERAL CONTROL OR WIRING DEVICE. LETTER SYMBOLS OR ABBREVIATIONS INDICATE TYPE OF DEVICE
CS	CONTROL STATION, SEE CONTROL DIAGRAMS FOR CONTROL DEVICE(S) REQUIRED.
30	NONFUSED DISCONNECT SWITCH, CURRENT RATING INDICATED, 3 POLE
60/40	FUSED DISCONNECT SWITCH, CURRENT RATING INDICATED (60/40, 60=SWITCH RATING / 40=FUSE RATING) 3 POLE
2	COMBINATION CIRCUIT BREAKER AND MAGNETIC STARTER, NEMA SIZE INDICATED

POWER SYSTEM PLAN-2

SYMBOL	DESCRIPTION
100/40	BREAKER, SEPARATELY MOUNTED, CURRENT RATING INDICATED (100/40, 100 = FRAME SIZE; 40 = TRIP RATING) 3 POLE
C 2	CONTACTOR, MAGNETIC, NEMA SIZE INDICATED
L 30	LIGHTING CONTACTOR, CURRENT RATING INDICATED
2	STARTER, MAGNETIC NEMA SIZE INDICATED
$3	SINGLE POLE SWITCH: 2 - DOUBLEPOLE P - PILOT LIGHT 3 - THREE WAY K - KEY OPERATED 4 - FOUR WAY D - DIMMER WP - WEATHERPROOF CRE - CORROSION RESISTANT EX - EXPLOSIONPROOF L - MOMENTARY 3-WAY M - MOTOR RATED MS - MANUAL STARTER WITH OVERLOADS
XX 2	CONVENIENCE RECEPTACLE - DUPLEX UNLESS NOTED OTHERWISE WP - WEATHERPROOF C - CLOCK HANGER TL - TWIST LOCK CRE - CORROSION RESISTANT GFCI - GROUND FAULT CIRCUIT INTERRUPTER SUBSCRIPT NUMBER AT RECEPTACLE INDICATES CIRCUIT
	240V RECEPTACLE
	CONVENIENCE RECEPTACLE - QUADRUPLEX
	MULTI OUTLET ASSEMBLY
	DUPLEX CONVENIENCE RECEPTACLE - FLUSH IN FLOOR
	CONVENIENCE RECEPTACLE, PEDESTAL, DUPLEX SINGLE FACE UNLESS INDICATED OTHERWISE
L20R 20	RECEPTACLE, SPECIAL PURPOSE-NEMA CONFIGURATION AND AMPERAGE INDICATED
T	THERMOSTAT
	UTILITY REVENUE METERING FACILITY
EUH	ELECTRIC UNIT HEATER
AC	ELECTRIC AIR CONDITIONER (SELF CONTAINED UNIT)
	UTILITY POLE

GROUND SYSTEM PLAN

	GROUND ROD
	GROUND ROD IN TEST WELL
G	GROUNDING CONDUCTOR, SIZE AS INDICATED
	PIGTAIL FOR CONNECTION TO EQUIPMENT CABINET OR FRAME
G	EQUIPMENT GROUND BUS
N	EQUIPMENT NEUTRAL BUS

Jacobs

PLOT TIME: 13:14
PLOT DATE: 27-FEB-2026
FILENAME: G-0070_D3838501.dwg

DATE	NO.	REVISION	BY

SHEET G-0070
16 OF 110

DESIGNED: JD
DRAWN: CM
CHECKED: RH
APPROVED: HL

REGISTERED PROFESSIONAL ENGINEER — STATE OF OREGON — JACOB HELTSLEY — 19482PE — Digital Signature — RENEWAL: 06/30/27 — EXP. 06/30/27

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SCALE: VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: GENERAL - ELECTRICAL LEGEND - 1
LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

GENERAL CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION

POWER CIRCUIT CALLOUTS			
[P1]	[1/2"FLEX, 2#12,#12G]	[P24]	[1"C,3#8,3#14,1#10G]
[P2]	[3/4"C,2#12,1#12G]	[P25]	[1"C,3#8,4#14,1#10G]
[P3]	[3/4"C,3#12,1#12G]	[P26]	[1"C,3#8,5#14,1#10G]
[P4]	[3/4"C,4#12,1#12G]	[P27]	[1"C,2#6, 1#10G]
[P5]	[3/4"C,5#12,1#12G]	[P28]	[1"C,4#6, 1#8G]
[P6]	[3/4"C,6#12,1#12G]	[P29]	[1"C,3#6, 2#14,1#8G]
[P7]	[3/4"C,7#12,1#12G]	[P30]	[1 1/4"C,3#6, 3#14,1#8G]
[P8]	[3/4"C,8#12,1#12G]	[P31]	[1 1/4"C,3#6, 4#14,1#8G]
[P9]	[3/4"C,3#12,2#14,1#12G]	[P32]	[1 1/4"C,3#6, 5#14,1#8G]
[P10]	[3/4"C,3#12,3#14,1#12G]	[P33]	[1 1/4"C,3#4,1#8G]
[P11]	[3/4"C,3#12,4#14,1#12G]	[P34]	[1 1/4"C,3#4,3#14,1#8G]
[P12]	[3/4"C,3#12,5#14,1#12G]	[P35]	[1 1/4"C,3#4,5#14,1#8G]
[P13]	[3/4"C,3#12,6#14,1#12G]	[P36]	[1 1/4"C,3#3, 1#6G]
[P14]	[1"C,3#12,7#14,1#12G]	[P37]	[1 1/4"C,3#3, 3#14,1#6G]
[P15]	[3/4"C,2#10,1#10G]	[P38]	[1 1/4"C,3#2, 1#6G]
[P16]	[3/4"C,3#10,1#10G]	[P39]	[1 1/2"C,3#1, 1#6G]
[P17]	[3/4"C,3#10,2#14,1#10G]	[P40]	[2"C,3#1, 3#14,1#6G]
[P18]	[3/4"C,3#10,3#14,1#10G]	[P41]	[2"C,3#2/0, 1#4G]
[P19]	[3/4"C,3#10,4#14,1#10G]	[P42]	[2"C,3#3/0, 1#4G]
[P20]	[1"C,3#10,5#14,1#10G]	[P43]	[2"C,3#4/0, 1#3G]
[P21]	[1"C,2#8,1#10G]		
[P22]	[1"C,3#8,1#10G]		
[P23]	[1"C,3#8,2#14,1#10G]		

EMPTY CONDUIT	
[EC-1]	[3/4"C,WITH PULL STRING]
[EC-2]	[1"C,WITH PULL STRING]
[EC-3]	[1 1/4"C,WITH PULL STRING]
[EC-4]	[1 1/2"C,WITH PULL STRING]
[EC-5]	[2"C,WITH PULL STRING]
[EC-6]	[3"C,WITH PULL STRING]
[EC-7]	[4"C,WITH PULL STRING]
[EC-8]	[5"C,WITH PULL STRING]

ANALOG CIRCUIT CALLOUTS	
[A1]	[3/4"C,1 TYPE 3]
[A2]	[3/4"C,2 TYPE 3]
[A3]	[1"C,3 TYPE 3]
[A4]	[1 1/4"C,4 TYPE 3]
[A5]	[1 1/4"C,5 TYPE 3]
[A6]	[1 1/4"C,6 TYPE 3]
[A7]	[1 1/2"C,7 TYPE 3]
[A8]	[1 1/2"C,8 TYPE 3]
[A9]	[1 1/2"C,9 TYPE 3]
[A10]	[2"C,10 TYPE 3]
[A11]	[2"C,11 TYPE 3]
[A12]	[2"C,12 TYPE 3]
[A13]	[2"C,13 TYPE 3]
[A14]	[2"C,14 TYPE 3]
[A15]	[3/4"C,1 TYPE 4]
[A16]	[3/4"C,2 TYPE 4]
[A17]	[1"C,3 TYPE 4]
[A18]	[1 1/4"C,4 TYPE 4]
[A19]	[1 1/4"C,5 TYPE 4]
[A20]	[1 1/4"C,6 TYPE 4]
[A21]	[1 1/2"C,7 TYPE 4]
[A22]	[1 1/2"C,8 TYPE 4]
[A23]	[2"C,9 TYPE 4]
[A24]	[3/4"C,1-4 pr. TYPE 5]
[A25]	[1"C,2-4 pr. TYPE 5]

CONTROL CIRCUIT CALLOUTS	
[C1]	[3/4"C,MSC]
[C2]	[3/4"C,2#14,1#14G]
[C3]	[3/4"C,3#14,1#14G]
[C4]	[3/4"C,4#14,1#14G]
[C5]	[3/4"C,5#14,1#14G]
[C6]	[3/4"C,6#14,1#14G]
[C7]	[3/4"C,7#14,1#14G]
[C8]	[3/4"C,8#14,1#14G]
[C9]	[3/4"C,9#14,1#14G]
[C10]	[3/4"C,10#14,1#14G]
[C11]	[3/4"C,11#14,1#14G]
[C12]	[3/4"C,12#14,1#14G]
[C13]	[3/4"C,13#14,1#14G]
[C14]	[1"C,14#14,1#14G]
[C15]	[1"C,15#14,1#14G]
[C16]	[1"C,16#14,1#14G]
[C17]	[1"C,17#14,1#14G]
[C18]	[1"C,18#14,1#14G]
[C19]	[1"C,19#14,1#14G]
[C20]	[1"C,20#14,1#14G]
[C21]	[1"C,21#14,1#14G]
[C22]	[1"C,22#14,1#14G]
[C23]	[1"C,23#14,1#14G]
[C24]	[1 1/4"C,24#14,1#14G]
[C25]	[1 1/4"C,25#14,1#14G]

MULTICONDUCTOR CONTROL CABLE CIRCUIT CALLOUTS	
[CC3]	[3/4"C,1-3C TYPE 1]
[CC5]	[3/4"C,1-5C TYPE 1]
[CC7]	[3/4"C,1-7C TYPE 1]
[CC9]	[1"C,1-9C TYPE 1]
[CC12]	[1"C,1-12C TYPE 1]
[CC19]	[1 1/2"C, 1-19C TYPE 1]
[CC25]	[1 1/2"C,1-25C TYPE 1]
[CC37]	[2"C,1-37C TYPE 1]
[CCC1]	[1-7C #12 TYPE 1]

NETWORK CIRCUIT CALLOUTS	
[N1]	[1"C, TYPE 30]
[N2]	[1"C, 2 TYPE 30]
[N3]	[1"C, 3 TYPE 30]
[N4]	[1-1/4"C, 4 TYPE 30]
[N5]	[1-1/4"C, 5 TYPE 30]
[N6]	[1-1/4"C, 6 TYPE 30]

NOTES:
1. FOR CABLE TYPES, SEE DIVISION 26 SPECIFICATIONS.
2. POWER CIRCUIT CALLOUTS ARE BASED ON THE AREA OF THW CONDUCTORS. CONTROL CIRCUIT CALLOUTS ARE BASED ON THE AREAS OF SCHEDULE 40 PVC CONDUIT AND TYPES XHHW & XHHW-2 INSULATION.
3. SIZING OF CONDUCTORS #1AWG AND SMALLER BASED ON AMPACITIES AT 60 DEGREES C, SIZING OF CONDUCTORS #1/0AWG AND LARGER BASED ON AMPACITIES AT 75 DEGREES C.
4. WHERE CIRCUITS ARE UNDERGROUND, DIRECT BURIED OR CONCRETE ENCASED, MINIMUM CONDUIT SIZE SHALL BE 1".

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: JD
DRAWN: CM
CHECKED: RH
APPROVED: HL

SHEET G-0071
17 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 19462PE — Digital Signature — JACOB HELT — EXP: 06/30/27

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SCALE VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: GENERAL - ELECTRICAL LEGEND - 2
LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

PLOT TIME: 13:14
PLOT DATE: 27-FEB-2026
FILENAME: G-0071_D3838501.dwg

SOLIDS COTHICKENING DESIGN FLOWS AND LOADS							
DESCRIPTION	**UNITS**	**START-UP CONDITIONS**			**2036 DESIGN CONDITIONS**		
		AVERAGE ANNUAL	**MAXIMUM MONTH**	**MAXIMUM WEEK**	**AVERAGE ANNUAL**	**MAXIMUM MONTH**	**MAXIMUM WEEK**
COTHICKENING BLENDED SLUDGE FEED							
BLENDED PS + WAS TO COTHICKENING	GPD	309,900	438,400	525,000	470,600	514,500	655,500
	%TS	0.80%	0.80%	0.80%	0.80%	0.80%	0.80%
	LB/DAY	20,700	29,300	35,100	31,400	34,300	43,800
COTHICKENING OPERATIONS SCHEDULE	HRS/DAY	22	22	22	22	22	22
	DAYS/WEEK	7	7	7	7	7	7
BLENDED SLUDGE FEED RATE TO COTHICKENING	GPM	240	330	400	360	390	500
	LB/HR	940	1,330	1,600	1,430	1,560	1,990
COTHICKENING PERFORMANCE							
RDT SOLIDS CAPTURE EFFICIENCY	%	95%	95%	95%	95%	95%	95%
BLENDED SLUDGE COTHICKENED SOLIDS	LB/DAY	19,700	27,800	33,300	29,800	32,600	41,600
	GPM	30	40	50	40	50	60
	%TS	6%	6%	6%	6%	6%	6%
COTHICKENING FILTRATE PRODUCTION							
PROCESS FLOW	GPM	210	290	350	310	340	430
WASHWATER	GPM	60	60	120	120	120	120
TOTAL FILTRATE	GPM	270	350	470	430	460	550
	GPD	349,800	462,000	616,800	569,400	607,800	730,800
FILTRATE SOLIDS LOAD	DRY LB/DAY	1,000	1,500	1,800	1,600	1,700	2,200

DEWATERING DESIGN FLOWS AND LOADS					
DESCRIPTION	**UNITS**	**START-UP CONDITIONS (15,000 GPD FOG)**		**2052 DESIGN CONDITIONS (30,000 GPD FOG)**	
		AVERAGE ANNUAL	**MAXIMUM MONTH**	**AVERAGE ANNUAL**	**MAXIMUM MONTH**
ANAEROBICALLY DIGESTED SLUDGE FEED	GPD	83,300	86,700	108,500	114,800
	%TS	2.40%	2.40%	2.30%	2.30%
	LB/DAY	16,800	17,500	20,400	22,000
DEWATERING OPERATIONS SCHEDULE	HRS/DAY	9	14	12	19
	DAYS/WEEK	7	7	7	7
DEWATERING FEED RATE TO DEWATERING	GPM	156	102	156	102
	LB/HR	1,888	1,232	1,759	1,173
CENTRIFUGE SOLIDS CAPTURE EFFICIENCY	%	95%	95%	95%	95%
DEWATERED CAKE SOLIDS	%TS	16%	16%	16%	16%
	DRY LB/DAY	15,960	16,625	19,380	20,900
	WET LB/D	99,750	103,906	121,125	130,625
	WET LB/HR	11,208	7,317	10,442	6,963
	GPM	22	15	21	14
CENTRATE PRODUCTION					
CENTRATE PRODUCTION	GPD	71,347	74,249	93,986	99,147
	DRY LB/DAY	840	875	1,020	1,100
	%TS	0.14%	0.14%	0.13%	0.13%

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET G-0081
18 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 54928PE — Digital Signature — 04/30/26 — BRETT W. RIES

EXP.: 12/31/26

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SCALE VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: GENERAL - DESIGN DATA TABLE - 1
LOCATION:

IN THE CITY OF GRESHAM

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CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

FILENAME: G-0081_D3838501.dwg PLOT DATE: 25-FEB-2026 PLOT TIME: 08:02

ROTARY DRUM THICKENER DESIGN CRITERIA			
DESCRIPTION	**UNITS**	**START-UP CONDITION**	**DESIGN CONDITION**
DESIGN BASIS		START-UP AVERAGE ANNUAL	2036 MAXIMUM WEEK
NUMBER OF DUTY UNITS	#	1	2
NUMBER OF STANDBY UNITS	#	2	1
TOTAL NUMBER OF INSTALLED UNITS	#	3	3
RDT FEED CONCENTRATION	%TS	0.8% - 1.2%	
SOLIDS CAPTURE EFFICIENCY	%	95%	
DERATED CAPACITY PER UNIT	GPM	340	
THICKENED SOLIDS CONCENTRATION	%TS	4.0% - 6.0%	
POLYMER DOSAGE RANGE	LBS ACTIVE/DRY TON	8 - 10	
TOTAL POWER DEMAND (RDT DRIVE AND FLOC TANK MIXER)	HP	3	
RDT DRIVE TYPE		VFD	
RDT FLOC MIXER DRIVE TYPE		CS	
ROTARY DRUM THICKENING POLYMER SYSTEM DESIGN CRITERIA			
RDT POLYMER STORAGE			
DESIGN BASIS		START-UP AVERAGE ANNUAL	2036 MAXIMUM WEEK
POLYMER TYPE		LIQUID EMULSION	
MAXIMUM POLYMER DOSAGE	LBS ACTIVE/DRY TON	10	
POLYMER STORAGE	DAYS	39	18
POLYMER STORAGE TANK TYPE		FRP	
NUMBER OF TANKS	#	1	
TANK USABLE VOLUME	GAL	1,169	
NOMINAL DIAMETER	FT	5.0	
SIDE WATER DEPTH	FT	8.0	
RDT POLYMER STORAGE TANK RECIRCULATION PUMP			
TYPE		PROGRESSING CAVITY	
NUMBER OF UNITS (DUTY + STANDBY)		1 (1+0)	
CAPACITY	GPM	10	
DRIVE TYPE		CS	
MOTOR SIZE	HP	2	
RDT THICKENING POLYMER BLENDING UNITS			
BASIS OF DESIGN		START-UP AVERAGE ANNUAL	2036 MAXIMUM WEEK
NUMBER OF POLYMER BLENDING UNITS (DUTY + STANDBY)	#	3 (1 + 2)	3 (2 + 1)
NEAT POLYMER FLOW PER UNIT	GPH	1.40	1.50
DILUTION WATER FLOW PER UNIT	GPM	4.70	5.00
NEAT POLYMER PUMP TYPE		PROGRESSING CAVITY	
NEAT POLYMER PUMP CAPACITY	GPH	3.0	
NEAT POLYMER PUMP MOTOR	HP	0.5	
TYPE OF POLYMER BLENDING UNITS (PBU)		HYDRO-MECHANICAL	
PBU DILUTION WATER CAPACITY	GPM	10	
PBU PRESSURE DROP	PSI	30	
PBU MOTOR	HP	0.5	

Jacobs

FILENAME: G-0082_D3838501.dwg PLOT DATE: 25-FEB-2026 PLOT TIME: 08:03

DATE	NO.	REVISION	BY

SHEET G-0082 19 OF 110

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

REGISTERED PROFESSIONAL ENGINEER — OREGON — 54992PE — Digital Signature — 04/01/2004 — BRETT W. REIS

EXP.: 12/31/26

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DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: GENERAL - DESIGN DATA TABLE - 2
LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

DEWATERING CENTRIFUGE DESIGN CRITERIA			
DESCRIPTION	**UNITS**	**START-UP CONDITION**	**DESIGN CONDITION**
DESIGN BASIS		START-UP AVERAGE ANNUAL	2052 MAXIMUM MONTH
NUMBER OF DUTY UNITS	#	2	1
NUMBER OF STANDBY UNITS	#	0	1
TOTAL NUMBER OF INSTALLED UNITS	#	2	2
OPERATING SCHEDULE	HRS/DAY	9	19
	DAYS/WEEK	7	7
CENTRIFUGE FEED CONCENTRATION	%TS	2.4%	2.3%
SOLIDS CAPTURE EFFICIENCY	%	95%	95%
CENTRIFUGE DERATED CAPACITY PER UNIT (65% OF MAX.CAPACITY AT AA, 85% OF MAX CAPACITY AT MM)	DRY LBS/HR	975	1,275
	GPM	78	102
MINIMUM CAKE SOLIDS	%TS	16%	
ASSUMED POLYMER DOSAGE	LBS ACTIVE/DRY TON	60	
TOTAL POWER DEMAND (MAIN DRIVE AND BACK DRIVE)	HP	70	
CENTRIFUGE DRIVE TYPE		VFD	
DEWATERING CENTRIFUGE POLYMER SYSTEM DESIGN CRITERIA			
DEWATERING CENTRIFUGE POLYMER STORAGE			
DESIGN BASIS		START-UP AVERAGE ANNUAL	2052 MAXIMUM MONTH
POLYMER TYPE		LIQUID EMULSION	
MAXIMUM POLYMER DOSAGE	LBS ACTIVE/DRY TON	60	
TOTAL POLYMER STORAGE	DAYS	32	24
POLYMER STORAGE TANK TYPE		STAINLESS STEEL (EXISTING)	
NUMBER OF TANKS	#	4	
TANK USABLE VOLUME (EACH)	GAL	750	
SIDE WATER DEPTH	FT	5	
POLYMER STORAGE TANK TYPE		FRP (NEW)	
NUMBER OF TANKS	#	1	
TANK USABLE VOLUME (EACH)	GAL	1,630	
NOMINAL DIAMETER	FT	6.0	
SIDE WATER DEPTH	FT	8.0	
DEWATERING CENTRIFUGE POLYMER STORAGE TANK RECIRCULATION PUMP			
TYPE		PROGRESSING CAVITY	
NUMBER OF UNITS	#	3	
CAPACITY	GPM	10	
DRIVE TYPE		CS	
MOTOR SIZE	HP	2	
CENTRIFUGE DEWATERING POLYMER BLENDING UNITS			
BASIS OF DESIGN		START-UP AVERAGE ANNUAL	2052 MAXIMUM MONTH
NUMBER OF POLYMER BLENDING UNITS (DUTY + STANDBY)	#	3 (2 + 1)	3 (1 + 2)
NEAT POLYMER FLOW PER UNIT	GPH	6	8
DILUTION WATER FLOW PER UNIT	GPM	20	30
NEAT POLYMER PUMP TYPE		PROGRESSING CAVITY	
NEAT POLYMER PUMP CAPACITY	GPH	15.0	
NEAT POLYMER PUMP MOTOR	HP	0.5	
TYPE OF POLYMER BLENDING UNITS (PBU)		HYDRO-MECHANICAL	
PBU DILUTION WATER CAPACITY	GPM	40	
PBU PRESSURE DROP	PSI	30	
PBU MOTOR	HP	0.5	

Jacobs

FILENAME: G-0083_D3838501.dwg PLOT DATE: 2-MAR-2026 PLOT TIME: 10:59

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET G-0083 20 OF 110

REGISTERED PROFESSIONAL ENGINEER OREGON 54992PE Digital Signature 04/01/2008 BRETT W. REIS 12/31/26

EXP.: 12/31/26

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SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: GENERAL - DESIGN DATA TABLE - 3

LOCATION:

IN THE CITY OF GRESHAM

CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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DEWATERED CAKE CONVEYANCE DESIGN CRITERIA			
DESCRIPTION	**UNITS**	**START-UP CONDITION**	**DESIGN CONDITION**
CENTRIFUGE 1 DISCHARGE CONVEYOR			
DESIGN BASIS		START-UP AVERAGE ANNUAL	2052 MAXIMUM MONTH
TYPE		SHAFTLESS SCREW CONVEYOR	
NUMBER OF UNITS (DUTY + STANDBY)	#	1 (1 + 0)	
ORIENTATION		INCLINED	
ANGE OF INCLINE	DEGREES	20	
WET CAKE PRODUCTION	WET LBS/HR	5,899	7,329
CONVEYOR CAPACITY	WET LBS/HR	8,000	
LENGTH	FT	12	
MOTOR SIZE	HP	2	
CENTRIFUGE 1 TRANSFER CONVEYOR			
DESIGN BASIS		START-UP AVERAGE ANNUAL	2052 MAXIMUM MONTH
TYPE		SHAFTLESS SCREW CONVEYOR	
NUMBER OF UNITS (DUTY + STANDBY)	#	1 (1 + 0)	
ORIENTATION		INCLINED	
ANGE OF INCLINE	DEGREES	25	
WET CAKE PRODUCTION	WET LBS/HR	5,899	7,329
CONVEYOR CAPACITY	WET LBS/HR	8,000	
LENGTH	FT	14	
MOTOR SIZE	HP	2	
CENTRIFUGE 2 DISCHARGE CONVEYOR			
DESIGN BASIS		START-UP AVERAGE ANNUAL	2052 MAXIMUM MONTH
TYPE		SHAFTLESS SCREW CONVEYOR	
NUMBER OF UNITS (DUTY + STANDBY)	#	1 (1 + 0)	
ORIENTATION		INCLINED	
ANGE OF INCLINE	DEGREES	20	
WET CAKE PRODUCTION	WET LBS/HR	5,899	7,329
CONVEYOR CAPACITY	WET LBS/HR	8,000	
LENGTH	FT	12	
MOTOR SIZE	HP	2	
CENTRIFUGE 2 TRANSFER CONVEYOR			
DESIGN BASIS		START-UP AVERAGE ANNUAL	2052 MAXIMUM MONTH
TYPE		SHAFTLESS SCREW CONVEYOR	
NUMBER OF UNITS (DUTY + STANDBY)	#	1 (1 + 0)	
ORIENTATION		INCLINED	
ANGE OF INCLINE	DEGREES	25	
WET CAKE PRODUCTION	WET LBS/HR	5,899	7,329
CONVEYOR CAPACITY	WET LBS/HR	8,000	
LENGTH	FT	14	
MOTOR SIZE	HP	2	

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET G-0084 21 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 5/6/2012 — BRETT W. REIS — 12-31-26 — Digital Signature

EXP.: 12/31/26

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DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: GENERAL - DESIGN DATA TABLE - 4

LOCATION:

IN THE CITY OF GRESHAM

CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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FILENAME: G-0084-D338501.dwg PLOT DATE: 2-MAR-2026 PLOT TIME: 11:00

AREA CLASSIFICATION AND MATERIALS SELECTION TABLE

FACILITY	ROOM / AREA	ROOM ENVIRONMENT	NFPA 820-2020			ELECTRICAL				MECHANICAL					NOTES
			CLASSIFICATION	REFERENCE	VENTILATION	NEMA 250 ENCLOSURE TYPE	CONDUIT MATERIALS	OUTLETS, BOXES & FITTINGS	SUPPORTS FOR CONDUIT, CABLE TRAYS	DUCTWORK	DUCTWORK SUPPORTS, FASTENERS	PIPE SUPPORTS	MOUNTING HARDWARE (NUTS, BOLTS, FASTENERS, ETC.)	EQUIPMENT/ SUPPORTS ANCHOR BOLTS	
SOLIDS BUILDING	BASEMENT	DAMP, UNFINISHED, CORROSIVE	UNCLASSIFIED	TABLE 6.2.2(a) ROW 9(b)	6 ACH W/ VM	4X, 316 SST	PVC COATED RGS	PVC COATED MALLEABLE IRON (ALUMINUM MOUNTING PLATES)	304 SST	N/A	N/A	304 SST	316 SST	316 SST	
	GROUND FLOOR	DAMP, UNFINISHED, CORROSIVE	UNCLASSIFIED	TABLE 6.2.2(a) ROW 12(a)	6 ACH W/ VM	4X, 316 SST	PVC COATED RGS	PVC COATED MALLEABLE IRON (ALUMINUM MOUNTING PLATES)	304 SST	SUPPLY: ALUMINUM EXHAUST: FRP	304 SST	304 SST	316 SST	316 SST	
	ELECTRICAL ROOM	DRY, UNFINISHED	UNCLASSIFIED	1.1.3 (7)	N/A	1, GASKETED	RGS	MALLEABLE IRON	HDG	N/A	N/A	HDG	HDG	HDG	
	ROOF	WET, OUTDOOR	UNCLASSIFIED	N/A	N/A	4X, 316 SST	RGS	MALLEABLE IRON	HDG	ALUMINUM	304 SST	304 SST	316 SST	316 SST	
PRIMARY CLARIFIER	PUMP STATIONS	DAMP, UNFINISHED	UNCLASSIFIED	TABLE 6.2.2(a) ROWS 6(b) & 9(b)	6 ACH	12	RGS	MALLEABLE IRON	HDG	N/A	N/A	HDG	316 SST	316 SST	

DEFINITIONS:

ACH	AIR CHANGES PER HOUR
FRP	FIBER-REINFORCED PLASTIC
HDG	HOT-DIPPED GALVANIZED STEEL
RGS	RIGID GALVANIZED STEEL
SST	STAINLESS STEEL
VM	VENTILATION MONITORING

AREA CLASSIFICATION AND MATERIALS SELECTION TABLE

Jacobs

FILENAME: G-0085_I3838501.dwg PLOT DATE: 2-MAR-2026 PLOT TIME: 10:59

NO.	DATE	REVISION	BY

DESIGNED: JD
DRAWN: CM
CHECKED: JK
APPROVED: HL

SHEET G-0085 22 OF 110

PROFESSIONAL ENGINEER — OREGON — 184826 — Digital Signature — JACOB HELT — EXP: 06/30/27

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SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: GENERAL - AREA CLASSIFICATION AND MATERIALS SELECTION TABLE

LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

PIPING SCHEDULE

FLOW STREAM ID	SERVICE	SIZE INCHES (NOTE 2)	SPECIFICATION SECTION	MATERIAL (NOTE 3)	INSTALLATION (NOTE 4)	JOINT TYPE (NOTE 5)	LINING / COATING (NOTE 6)	TEST PRESSURE AND TYPE (PSIG - X) (NOTE 7)	INSULATION TYPE / FINISH (NOTE 8)	COLOR OF PIPE OR BAND (NOTE 9)	LETTER & ARROW COLOR (NOTE 10)	REMARKS
CA	CITRIC ACID	<4	40 27 00.10	PVC	INSIDE	F, SW	NONE / NONE	75 - H	NONE	NONE	NONE	
CEN	CENTRATE	>=4	40 27 00.01	GLDI	INSIDE / OUTSIDE	F, G	GLASS / SYSTEM NO. 5	G	NONE	DARK GREY (41GR) RED BANDS (06SF)	WHITE	MAXIMIZE USE OF GROOVED JOINTS FOR INSIDE APPLICATIONS
					BUR	PRJ	GLASS / POLY					
		<4	40 27 00.08	SST	INSIDE	T, F	NONE / NONE					
CW2	CITY WATER, NON-POTABLE	<4	40 27 00.13	COP	INSIDE OUTSIDE	S	NONE / SYSTEM NO. 10 AND NO. 5	150 - H	NONE	LIGHT BLUE (45BL) RED BAND (06SF)	BLACK	
DS	DIGESTED SLUDGE	>=4	40 27 00.01	CLDI	INSIDE	F, G	CEMENT / SYSTEM NO. 5	75 - H	NONE	LIGHT BROWN (04BR) WHITE BAND (00WH)	GREEN	MAXIMIZE USE OF GROOVED JOINTS FOR INSIDE APPLICATIONS
		<4	40 27 00.08	SST	INSIDE	T	NONE / NONE					
NPW	NON POTABLE WATER	<4	40 27 00.13	COP	INSIDE OUTSIDE	S	NONE / SYSTEM NO. 10 AND NO. 5	150 - H	NONE	LIGHT BLUE (45BL) RED BAND (06SF)	BLACK	
PS	PRIMARY SLUDGE	>=4	40 27 00.01	GLDI	INSIDE / OUTSIDE	F, G	GLASS / SYSTEM NO. 5	150 - H	NONE	LIGHT BROWN (04BR) DARK BROWN BAND (84BR)	GREEN	MAXIMIZE USE OF GROOVED JOINTS FOR INSIDE APPLICATIONS
					BUR	PRJ	GLASS / POLY					
					EMB	F, G, PRJ	GLASS / SYSTEM NO. 7					
		<4	40 27 00.08	SST	INSIDE	T, F	NONE / NONE					NONE
PSC	PRIMARY SCUM	>=4	40 27 00.01	GLDI	INSIDE	F, G	GLASS / SYSTEM NO. 5	150 - H	NONE	LIGHT BROWN (04BR) DARK BROWN BAND (84BR)	GREEN	MAXIMIZE USE OF GROOVED JOINTS FOR INSIDE APPLICATIONS
		<4	40 27 00.08	SST	INSIDE	T, F	NONE / NONE					NONE
POL	NEAT POLYMER	ALL	40 27 00.10	PVC	INSIDE	SW	NONE / NONE	150 - H	NONE	ORANGE (04SF)	BLACK	
					OUTSIDE		NONE / SYSTEM NO. 25					
POS	POLYMER SOLUTION	ALL	40 27 00.10	PVC	INSIDE	SW	NONE / NONE	150 - H	NONE	ORANGE (04SF)	BLACK	
					OUTSIDE		NONE / SYSTEM NO. 25					
SLOP	DEWATERED SLUDGE SLOP	>=4	40 27 00.01	GLDI	INSIDE	F, G	GLASS / SYSTEM NO. 5	G	NONE	DARK GREY (41GR) RED BANDS (06SF)	WHITE	
XX/D	DRAIN	XX=PRIMARY SERVICE (NOTE 1)								DARK GREY (41GR) RED BANDS (06SF)	WHITE	
XX/OF	OVERFLOW	XX=PRIMARY SERVICE (NOTE 1)								DARK GREY (41GR) RED BANDS (06SF)	WHITE	
XX/S	SAMPLE	XX=PRIMARY SERVICE (NOTE 1)								LIGHT GREY (05WH) GREEN BANDS (20GN)	BLACK	
XX/V	VENT	XX=PRIMARY SERVICE (NOTE 1)								LIGHT GREY (05WH) BLUE BANDS (45BL)	BLACK	

NOTES:

1. WHERE PIPING CARRIES TO OR MORE SERVICE DESIGNATIONS, THE PIPING MATERIAL SHALL CONFORM TO THE MATERIAL OF THE FIRST SERVICE LISTED

2. ">" GREATER THAN
   "<" LESS THAN
   ">=" GREATER THAN OR EQUAL TO
   "<=" LESS THAN OR EQUAL TO
   "ALL" ALL SIZES WITHIN LISTED EXPOSURE

3. MATERIAL ABBREVIATION
   CLDI - CEMENT LINED DUCTILE IRON
   COP - COPPER
   GLDI - GLASS LINED DUCTILE IRON
   PVC - POLYVINYL CHLORIDE
   SST - 316 STAINLESS STEEL

4. INSTALLATIONS
   INSIDE - INSIDE BUILDING EXPOSED TO THE ENVIRONMENT
   OUTSIDE - OUTSIDE BUILDING EXPOSED TO ENVIRONMENT
   BUR - BURIED, EXPOSED TO ENVIRONMENT
   EMB - EMBEDDED (IN CONCRETE)

5. JOINT TYPE ABBREVIATIONS
   F FLANGED
   G GROOVED
   S SOCKET WELD, SOLDER
   T THREADED
   W WELDED, SOLVENT WELDED

6. LININGS AND COATING
   INTERNAL LINING AS SPECIFIED IN THE PIPING DATA SHEETS AND DETAILED PIPING SPECIFICATIONS
   EXTERNAL COATINGS PROVIDE COATING SYSTEMS LISTED IN THE REQUIREMENTS OF SPECIFICATION 09 90 00 - PAINTING AND PROTECTIVE COATINGS

7. TEST PER SPECIFICATION 40 80 01 - PROCESS PIPING LEAKAGE TESTING, UNLESS ALTERNATE SPECIFICATION IS LISTED
   TESTING TYPE: H = HYDROSTATIC, P = PNEUMATIC TEST, G = GRAVITY TEST, PC=TEST PER PLUMBING CODE

8. SEE INSULATION SPEC 40 42 13, PROCESS PIPING INSULATION

9. PAINTING OF PIPE AND VALVES SHALL BE PER SPECIFICATION 09 90 00 - PAINTING AND PROTECTIVE COATINGS. TNEMEC COLOR CODES IN PARENTHESES.

10. PIPE IDENTIFICATION "MESSAGE" AND ARROWS AS SPECIFIED IN SECTION 10 14 00 SIGNAGE

Jacobs

NO.	DATE	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: JK
APPROVED: HL

SHEET G-0086
23 OF 110

REGISTERED PROFESSIONAL ENGINEER
STATE OF OREGON
DAVID LEONARD FLYNN
95190PE
Digitally Signed
EXP. 12/31/27

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SCALE VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: GENERAL - PIPING SCHEDULE

LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

PLOT TIME: 13:51
PLOT DATE: 3-MAR-2026
FILENAME: G-0086_D3838501.dwg

POWER OPERATED OPEN/CLOSE VALVE SCHEDULE

VALVE TAG NUMBER	VALVE TYPE	VALVE SIZE (IN)	SERVICE	MAXIMUM OPERATING FLOW (GPM)	MAXIMUM DP SHUTOFF (PSI)	ACTUATOR VOLTAGE	P&ID NO.	FAIL POSITION	TRAVEL TIME (SECONDS)	ENCLOSURE NEMA 250	NOTES
FV7411	V302	2	NPW	30	80	120V	N-0003	FLP	30	4X	
FV7441	V940	2	NPW	30	80	120V	N-0003	FLP	30	4X	
FV7451	V405	6	SLOP/D	50	5	480V	N-0003	FLP	30	4X	
FV7412	V302	2	NPW	30	80	120V	N-0004	FLP	30	4X	
FV7442	V940	2	NPW	30	80	120V	N-0004	FLP	N/A	4X	
FV7452	V405	6	SLOP/D	50	5	480V	N-0004	FLP	30	4X	
FV7471	V302	2	NPW	30	80	120V	N-0003	FLP	30	4X	
FV7472	V302	2	NPW	30	80	120V	N-0004	FLP	30	4X	
FV7685A	V331	3	POL	2	10	120V	N-0008	FLP	30	4X	
FV7531	V340	3	POL	500	20	120V	N-0009	FLP	30	4X	3-WAY VALVE
FV7532A	V331	3	POL	2	10	120V	N-0009	FLP	30	4X	
FV7532B	V331	3	POL	2	10	120V	N-0009	FLP	30	4X	
FV7532C	V331	3	POL	2	10	120V	N-0009	FLP	30	4X	
FV7536A	V331	3	POL	2	10	120V	N-0009	FLP	30	4X	
FV7536B	V331	3	POL	2	10	120V	N-0009	FLP	30	4X	
FV7536C	V331	3	POL	2	10	120V	N-0009	FLP	30	4X	
FV7541	V340	3	POL	500	20	120V	N-0010	FLP	30	4X	3-WAY VALVE
FV7542A	V331	3	POL	2	10	120V	N-0010	FLP	30	4X	
FV7542B	V331	3	POL	2	10	120V	N-0010	FLP	30	4X	
FV7542C	V331	3	POL	2	10	120V	N-0010	FLP	30	4X	
FV7546A	V331	3	POL	2	10	120V	N-0010	FLP	30	4X	
FV7546B	V331	3	POL	2	10	120V	N-0010	FLP	30	4X	
FV7546C	V331	3	POL	2	10	120V	N-0010	FLP	30	4X	

NOTES:
1. WHEN NOTED, ACTUATOR CONTROL SWITCHES ARE PROVIDED FROM AN EXTERNAL REMOTE MOUNTED CONTROL STATION.
2. WHEN NOTED, PROVIDE ACTUATOR LISTED FOR USE IN CLASS11, DIVISION 2 HAZARDOUS AREA.

SELF-REGULATED VALVE SCHEDULE

VALVE TAG NUMBER	VALVE TYPE	VALVE SIZE (INCHES)	SERVICE	INLET PRESSURE (PSIG)	OUTLET[1] PRESSURE (PSIG)	MAXIMUM PRESSURE (PSIG)	FLOW (GPM)	P&ID NO.
PRV7641	V710	2	CW2	80	60	100	15	N-0006
PRV7642	V710	2	CW2	80	60	100	15	N-0006
PRV7643	V710	2	CW2	80	60	100	15	N-0006
PRV7691	V710	2	CW2	80	60	100	15	N-0008
PRV7692	V710	2	CW2	80	60	100	15	N-0008
PRV7693	V710	2	CW2	80	60	100	15	N-0008

NOTES:
1. DOWNSTREAM SET PRESSURE FOR PRESURE REDUCING VALVES.

Jacobs

NO.	DATE	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: JK
APPROVED: HL

SHEET G-0087
24 OF 110

REGISTERED PROFESSIONAL ENGINEER — STATE OF OREGON — 9979PE — Digitally Signed — DAVID LEONARD — NOV 18, 2025 — EXP. 12/31/27

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SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: GENERAL - VALVE SCHEDULE
LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

PLOT TIME: 13:51
PLOT DATE: 3-MAR-2026
FILENAME: G-0087_D3838501.dwg

GENERAL SHEET NOTES

14. CONCRETE WASHOUT LOCATION SHALL BE PROVIDED FOR WASHING OF CONCRETE TRUCKS AND EQUIPMENT SO THAT CONCRETE SLURRY IS NOT WASHED INTO THE STORMWATER SYSTEM, STREAMS, OR DRAINAGEWAYS.

15. GROUNDCOVER AND/OR SEEDING SHALL BE COMPLETED AS SOON AS PRACTICABLE FOR EACH PHASE OF CONSTRUCTION AND NOT LATER THAN SEPTEMBER 1. IF FERTILIZERS ARE USED TO ESTABLISH VEGETATION, THE APPLICATION RATES SHALL FOLLOW MANUFACTURER'S GUIDELINES AND THE APPLICATION SHALL BE PERFORMED IN SUCH A WAY TO MINIMIZE NUTRIENT-LADEN RUNOFF TO RECEIVING WATERS. THE PLAN SHALL STATE THE CONDITIONS FOR DETERMINING SUCCESSFUL VEGETATION ESTABLISHMENT.

16. NON-STORMWATER POLLUTANT CONTROL MEASURES INCLUDING ANY USE OF TOXIC OR OTHER HAZARDOUS MATERIALS SHALL INCLUDE PROPER STORAGE, SPILL CONTAINMENT, APPLICATION, AND DISPOSAL.

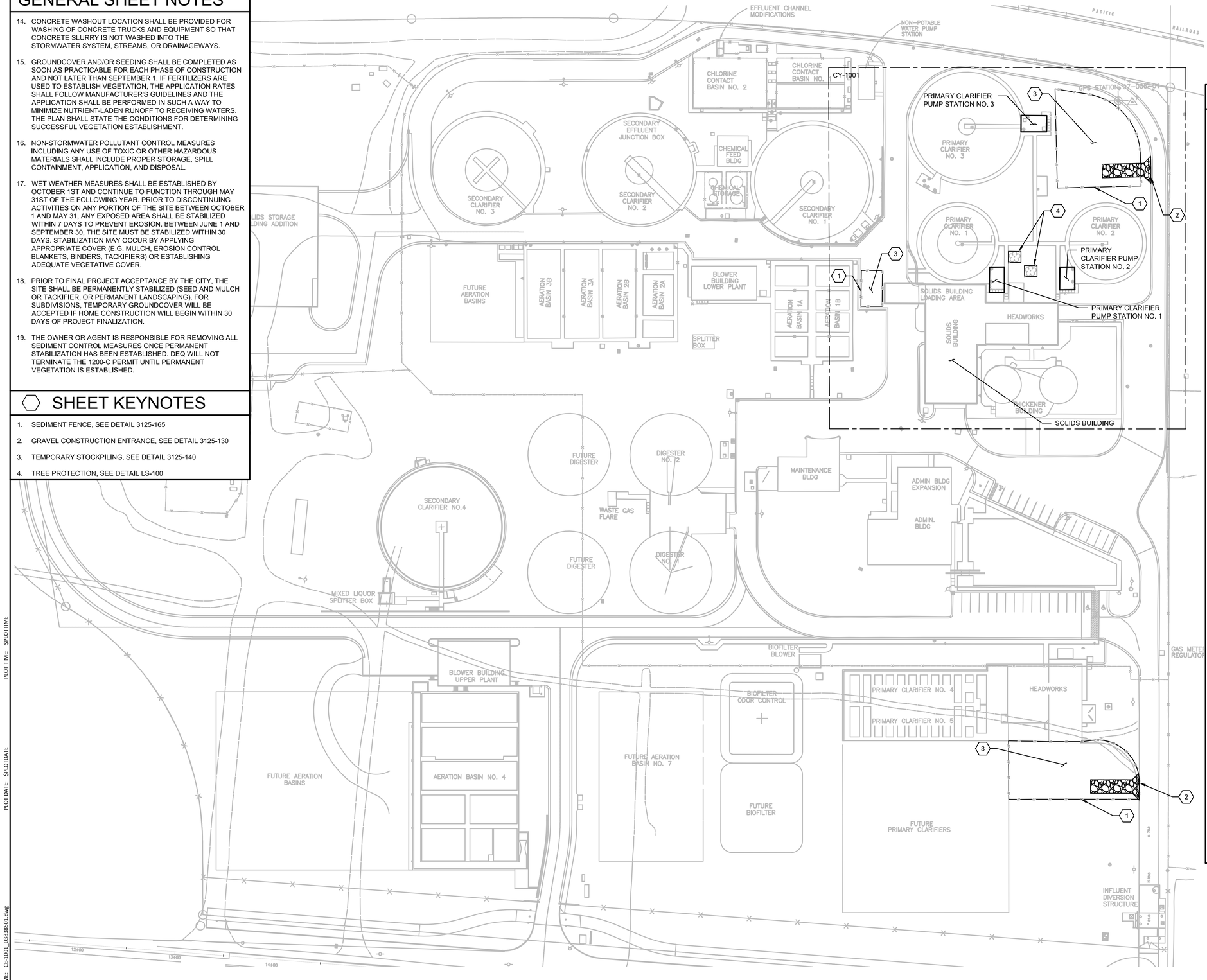
17. WET WEATHER MEASURES SHALL BE ESTABLISHED BY OCTOBER 1ST AND CONTINUE TO FUNCTION THROUGH MAY 31ST OF THE FOLLOWING YEAR. PRIOR TO DISCONTINUING ACTIVITIES ON ANY PORTION OF THE SITE BETWEEN OCTOBER 1 AND MAY 31, ANY EXPOSED AREA SHALL BE STABILIZED WITHIN 7 DAYS TO PREVENT EROSION. BETWEEN JUNE 1 AND SEPTEMBER 30, THE SITE MUST BE STABILIZED WITHIN 30 DAYS. STABILIZATION MAY OCCUR BY APPLYING APPROPRIATE COVER (E.G. MULCH, EROSION CONTROL BLANKETS, BINDERS, TACKIFIERS) OR ESTABLISHING ADEQUATE VEGETATIVE COVER.

18. PRIOR TO FINAL PROJECT ACCEPTANCE BY THE CITY, THE SITE SHALL BE PERMANENTLY STABILIZED (SEED AND MULCH OR TACKIFIER, OR PERMANENT LANDSCAPING). FOR SUBDIVISIONS, TEMPORARY GROUNDCOVER WILL BE ACCEPTED IF HOME CONSTRUCTION WILL BEGIN WITHIN 30 DAYS OF PROJECT FINALIZATION.

19. THE OWNER OR AGENT IS RESPONSIBLE FOR REMOVING ALL SEDIMENT CONTROL MEASURES ONCE PERMANENT STABILIZATION HAS BEEN ESTABLISHED. DEQ WILL NOT TERMINATE THE 1200-C PERMIT UNTIL PERMANENT VEGETATION IS ESTABLISHED.

SHEET KEYNOTES

1. SEDIMENT FENCE, SEE DETAIL 3125-165
2. GRAVEL CONSTRUCTION ENTRANCE, SEE DETAIL 3125-130
3. TEMPORARY STOCKPILING, SEE DETAIL 3125-140
4. TREE PROTECTION, SEE DETAIL LS-100



GENERAL SHEET NOTES

1. SEE G-0010 FOR EROSION AND SEDIMENT CONTROL LEGEND.

2. THE OWNER, PERMITTEE, CONTRACTOR, OR AGENT (E.G. ESCP MANAGER), SHALL BE RESPONSIBLE FOR PROPER INSTALLATION, MONITORING, MAINTENANCE, AND REMOVAL OF ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES, IN ACCORDANCE WITH THE CITY, STATE, AND FEDERAL REGULATIONS, RESPONSIBILITY WILL CONTINUE UNTIL PERMANENT VEGETATION OR LANDSCAPE IS COMPLETE.

3. OWNER OR AGENT SHALL BE RESPONSIBLE FOR MAINTENANCE UNTIL THE FOLLOWING CONDITIONS ARE MET: A) THE PROJECT HAS BEEN ACCEPTED BY THE CITY; B) ALL INDIVIDUAL LOTS ARE SOLD; AND C) TERMINATION OF THE 1200-C PERMIT BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ).

4. INSTALLATION, MAINTENANCE, AND INSPECTION OF EROSION CONTROL MEASURES SHALL FOLLOW REQUIREMENTS IN THE CITY OF GRESHAM STORMWATER MANAGEMENT MANUAL APPENDIX C - EROSION PREVENTION AND SEDIMENT CONTROL (ESCP) MANUAL.

5. APPROVAL OF THE ESCP PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).

6. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THE ESCP PLAN SHALL BE CLEARLY MARKED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE MARKINGS SHALL BE MAINTAINED BY THE OWNER OR AGENT OR DESIGNEE FOR THE DURATION OF CONSTRUCTION.

7. THE ESCP BMPS SHOWN ON THE PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, IN ACCORDANCE WITH THE CONDITIONS OF APPROVAL, PUBLIC WORKS STANDARDS, DEVELOPMENT CODE, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT, SEDIMENT-LADEN WATER, AND OTHER POLLUTANTS DO NOT ENTER THE DRAINAGE SYSTEM OR ROADWAYS, OR VIOLATE APPLICABLE WATER QUALITY STANDARDS.

8. THE ESCP BMPS SHOWN ON THE PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THE BMPS SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.

9. THE ESCP BMPS SHALL BE INSPECTED DAILY DURING STORMWATER AND SNOWMELT RUNOFF AND AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT THAT PRODUCES AT LEAST ½ OF AN INCH OF RAIN PER 24-HOUR PERIOD. ON INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, INSPECTIONS ARE REQUIRED EVERY TWO (2) WEEKS.

10. AT NO TIME SHALL SEDIMENT BE ALLOWED TO ACCUMULATE MORE THAN ONE-THIRD THE HEIGHT OF ANY SEDIMENT CONTROL BARRIER. TRAPPED SEDIMENTS SHALL BE REMOVED FROM CATCH BASINS WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PROJECT FINAL INSPECTION. THE CLEANING OPERATION SHALL NOT FLUSH OR INTENTIONALLY WASH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM STORMWATER SYSTEM, STREAMS OR DRAINAGEWAYS.

11. SEDIMENT THAT LEAVES THE SITE SHALL BE CLEANED UP WITHIN 24 HOURS AND PLACED BACK ON THE SITE OR PROPERLY DISPOSED. ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO REQUIREMENTS OF THE U.S. ARMY CORPS OF ENGINEERS AND THE OREGON DEPARTMENT OF STATE LANDS.

12. CATCH BASINS, AREA DRAINS, AND OTHER STORM SEWER INLETS SHALL BE PROTECTED UNTIL PAVED SURFACES ARE COMPLETED AND PERMANENT VEGETATION HAS BEEN ESTABLISHED.

13. STABILIZED GRAVEL ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

N

0 50 100 150
Scale In Feet

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: BK
DRAWN: AB
CHECKED: JK
APPROVED: HL

SHEET
CE-1001
25 OF 110

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REGISTERED PROFESSIONAL ENGINEER — OREGON — 83424PE — JENNIFER PHILPOTT — Digital Signature — EXP: 06/30/2027

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: EROSION AND SEDIMENT CONTROL PLAN

LOCATION:

IN THE CITY OF GRESHAM

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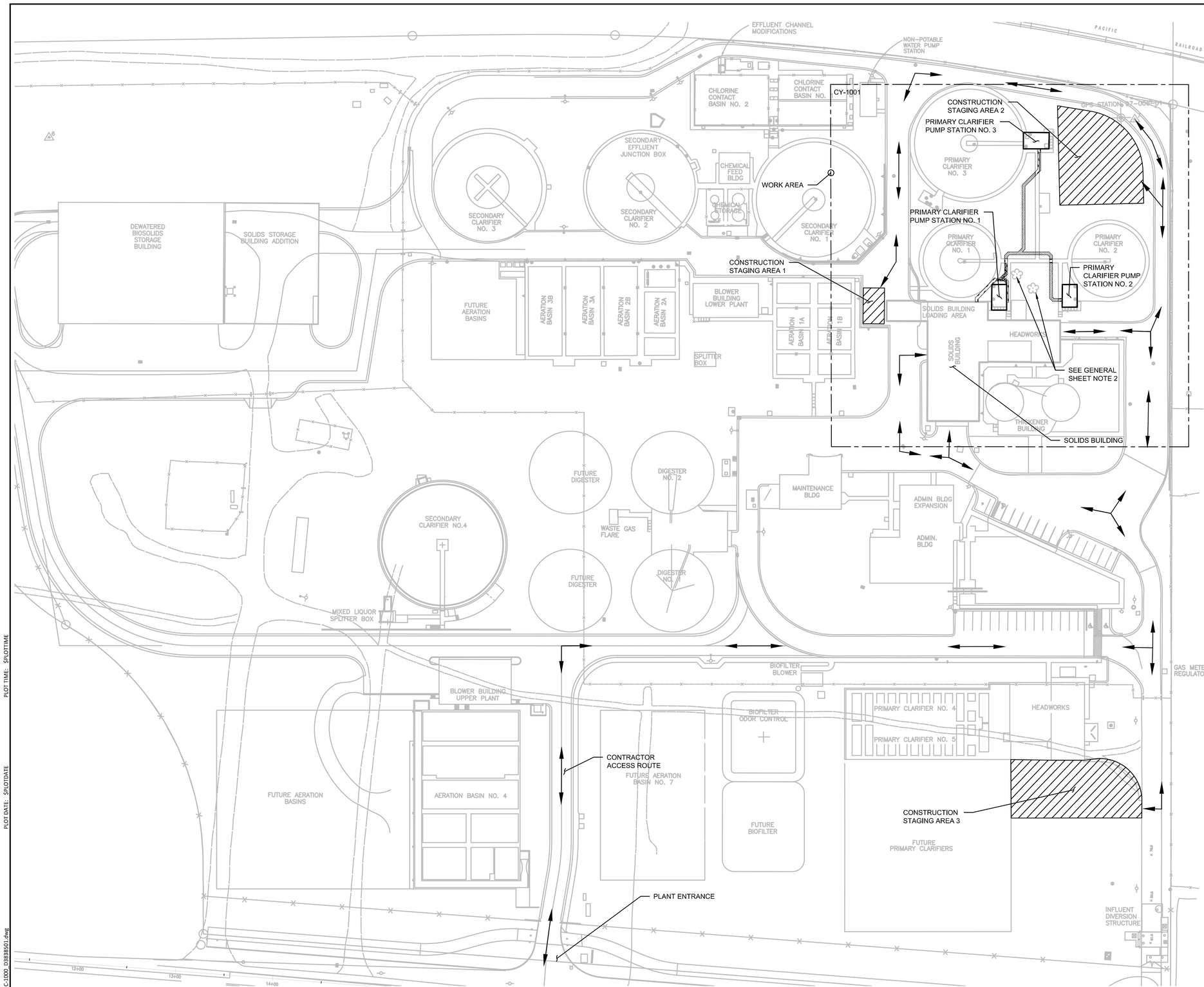
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

CITY OF GRESHAM

PLOT TIME: $PLOTTIME
PLOT DATE: $PLOTDATE
FILENAME: CE-1001_03838301.dwg



GENERAL SHEET NOTES

1. SEE LEGEND ON G-0010.
2. PROTECT EXISTING TREE DURING CONSTRUCTION.
3. SURFACE RESTORATION FOR GRASS AREAS. SEE DETAIL 3123-918.
4. SURFACE RESTORATION FOR GRAVEL AREAS. SEE DETAIL 3123-920.

DATE	NO.	REVISION	BY

DESIGNED: BK
DRAWN: AB
CHECKED: JK
APPROVED: HL

SHEET C-1000
26 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 83242PE — JENNIFER PHILPOTT — RENEWAL 6-30-2027
Digital Signature
EXP: 06/30/2027

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SCALE VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
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SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: CIVIL - OVERALL SITE PLAN

LOCATION:

IN THE CITY OF GRESHAM

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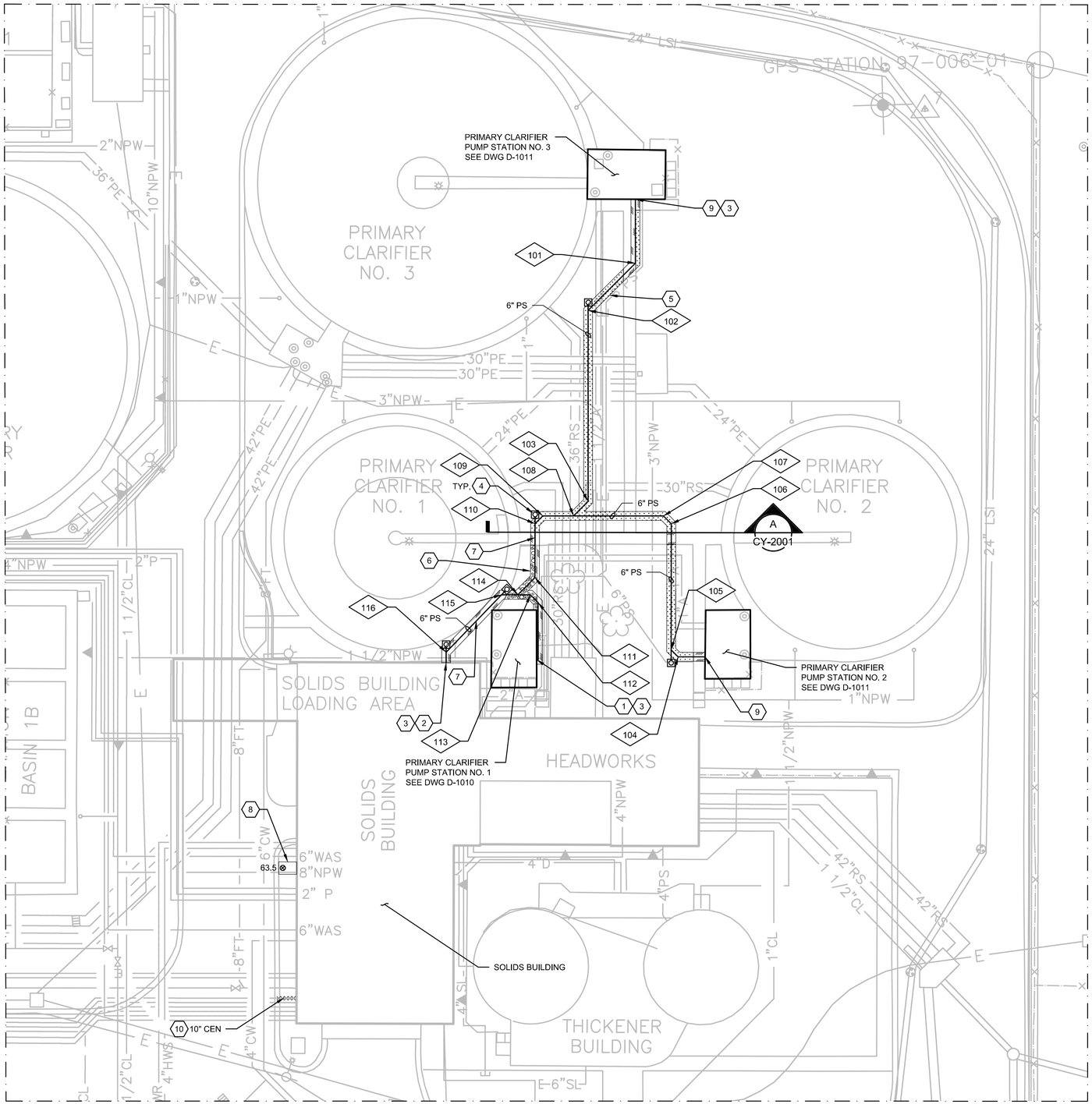
CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

Jacobs

PLOT TIME: $PLOTTIME
PLOT DATE: $PLOTDATE
FILENAME: C-1000_D3838501.dwg



GENERAL SHEET NOTES

1. SEE G-0010 FOR CIVIL AND YARD PIPING LEGEND.
2. FOR ALL YARD PIPING AND GENERAL UTILITY NOTES, REFER TO THE YARD PIPING LEGEND, SEE DRAWING G-0010.

SHEET KEYNOTES

1. FOR 6" PS CONNECTION, SEE D-1010 FOR CONTINUATION
2. FOR 6" PS CONNECTION BLENDED SLUDGE TANK, SEE D-1021 FOR CONTINUATION
3. INSULATION FLANGE, SEE DETAIL 2642-930
4. CLEANOUT, SEE DETAIL 4027-187
5. SURFACE RESTORATION FOR GRASS AREAS. SEE DETAIL 3123-918
6. SURFACE RESTORATION FOR GRAVEL AREAS. SEE DETAIL 3123-920
7. DEMO EXISTING SIDEWALK AND REPLACE MATCHING EXISTING SIDEWALK.
8. TYPICAL SIDEWALK, SEE DETAIL 3213-220
9. FOR 6" PS CONNECTION, SEE D-1011 CONTINUATION
10. DEMOLISH EXISTING 8x10 RDCR AT TIE -IN AND CONNECT TO EXISTING

PIPING COORDINATE TABLE*

POINT NO.	DESCRIPTION	CL ELEV	NORTHING	EASTING
101	6" PS, 45° BEND	55.00	691790.1434	7700743.8197
102	6" PS, LATERAL TO CLEANOUT	55.00	691774.6219	7700727.3875
103	6" PS, 45° BEND	53.50	691709.9998	7700725.5457
104	6" PS, 45° BEND	55.00	691656.5245	7700754.5345
105	6" PS, LATERAL TO CLEANOUT	55.00	691658.9475	7700752.2458
106	6" PS, 45° BEND	53.50	691701.6195	7700753.4620
107	6" PS, 45° BEND	53.50	691704.3520	7700750.8809
108	6" PS, WYE	53.50	691705.2184	7700720.4837
109	6" PS, 45° BEND	53.50	691705.5154	7700710.0622
110	6" PS, LATERAL TO CLEANOUT	53.50	691702.9747	7700707.3724
111	6" PS, 45° BEND	53.50	691684.6735	7700706.8508
112	6" PS, 45° BEND	55.00	691676.2490	7700707.6498
113	6" PS, 45° BEND	53.50	691678.9137	7700705.1327
114	6" PS, WYE	53.50	691679.0349	7700700.8813
115	6" PS, LATERAL TO CLEANOUT	53.50	691679.1921	7700695.3670
116	6" PS, LATERAL TO CLEANOUT	53.50	691660.3112	7700676.0646

*COORDINATES PROVIDED ARE FROM A 2006 SURVEY. CONTRACTOR TO FIELD VERIFY ALL EXISTING PIPING AND TIE-INS HORIZONTALLY AND VERTICALLY PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS, NOTIFY THE ENGINEER IMMEDIATELY.

N

0 20 40 60
Scale In Feet

Jacobs

NO.	DATE	REVISION	BY

DESIGNED: BK
DRAWN: AB
CHECKED: JK
APPROVED: HL

SHEET CY-1001
27 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 83242PE — JENNIFER HAGEMEIER — RENEWAL 06/30/2027
Digital Signature
EXP: 06/30/2027

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SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: YARD PIPING - AREA PLAN
LOCATION: IN THE CITY OF GRESHAM

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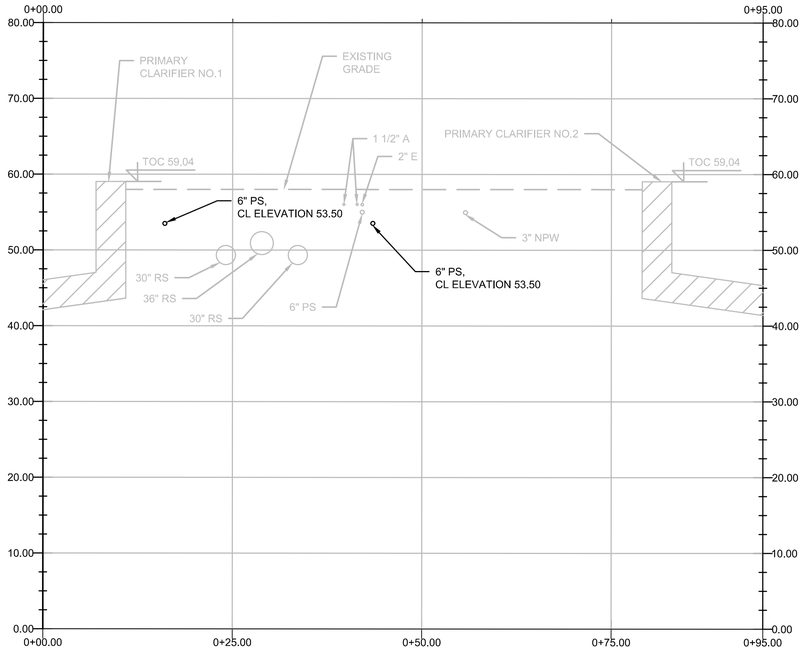
CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

PLOT TIME: $PLOTTIME
PLOT DATE: $PLOTDATE
FILENAME: CY-2001_03838501.dwg



A SECTION
SCALE: H:1"=10', V:1"=10'
CY-1001

GENERAL SHEET NOTES

1. FOR ALL YARD PIPING AND GENERAL UTILITY NOTES, REFER TO THE YARD PIPING LEGEND, SEE DRAWING G-0010.
2. FOR TRENCH BACKFILL, SEE DETAIL 3123-112.
3. PRIMARY CLARIFIER ARE SHOWN SCHEMATICALLY, CONTRACTOR SHALL VERIFY THAT EXCAVATION FOR THE PIPE WILL NOT EXPOSE CLARIFIER WALLS.
4. EXISTING GRADE IS SHOWN SCHEMATICALLY, CONTRACTOR SHALL VERIFY BEFORE EXCAVATION THE EXISTING GRADE ELEVATION.
5. EXISTING UTILITIES SHOWN ARE BASED ON RECORD DRAWINGS AND BEST AVAILABLE INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES AT PIPE CROSSINGS PRIOR TO THE START OF PIPE CONSTRUCTION AND REPORT DISCREPANCIES TO THE ENGINEER.

N

0 10 20 30
Scale In Feet

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: BK
DRAWN: AB
CHECKED: JK
APPROVED: HL

SHEET
CY-2001
28 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 93242PE — Digital Signature — RENEWAL DATE: 06/30/2027 — EXP: 06/30/2027

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SCALE
VERT: AS SHOWN
HORIZ: AS SHOWN

DATE: MARCH 2026

PROJECT NO.: CIPWW00047

LEGAL
SECTION | TOWNSHIP | RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: YARD PIPING - SECTION

LOCATION:
IN THE CITY OF GRESHAM

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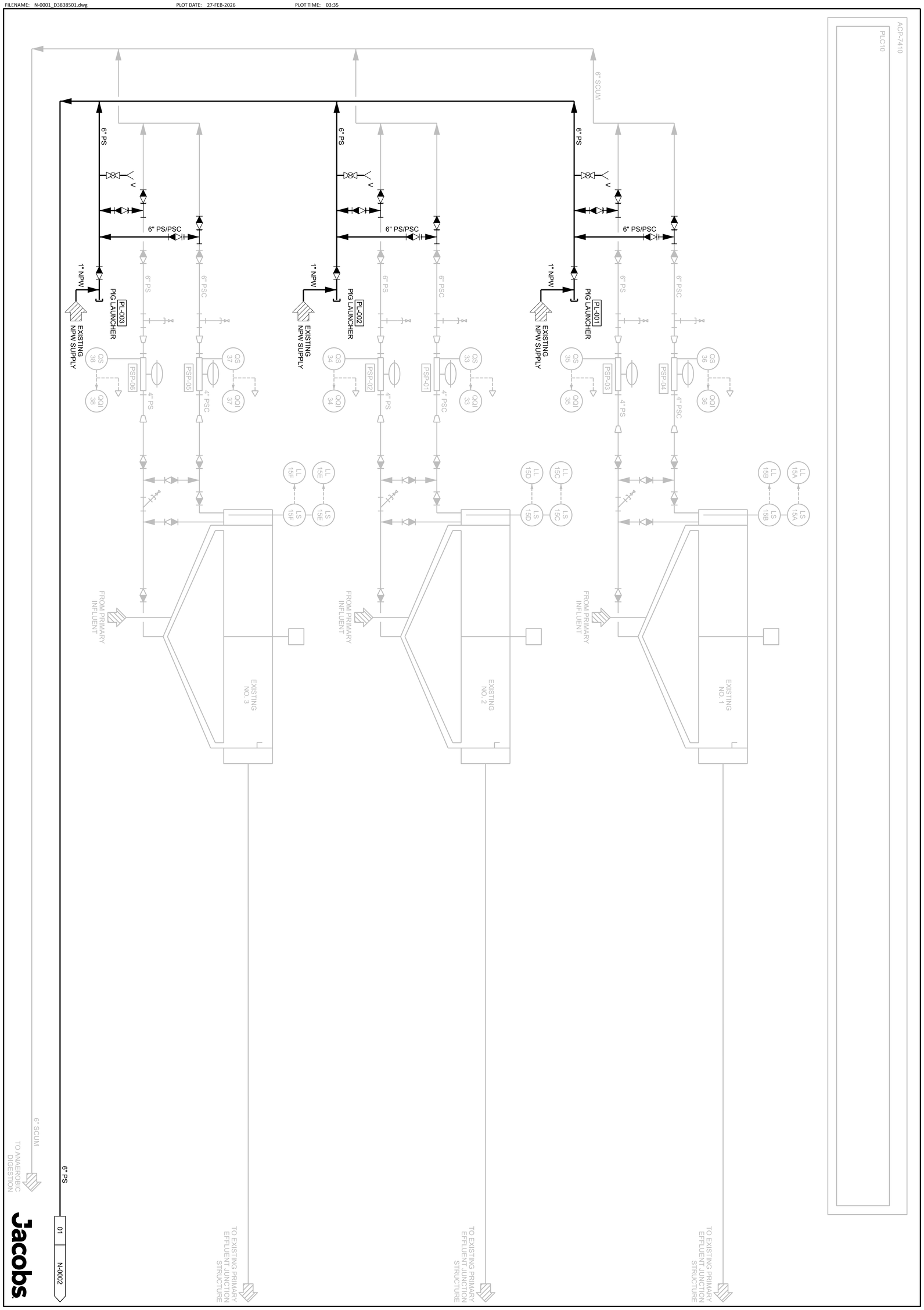
CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

FILENAME: CY-2001_D3838501.dwg PLOT DATE: $PLOTDATE PLOT TIME: $PLOTTIME

FILENAME: N-0001_D3838501.dwg PLOT DATE: 27-FEB-2026 PLOT TIME: 03:35



CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - PRIMARY CLARIFIER SLUDGE FEED SYSTEM P&ID

LOCATION:

IN THE CITY OF GRESHAM

SCALE	VERT: AS SHOWN
	HORIZ: AS SHOWN
DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047
LEGAL	
SECTION	TOWNSHIP / RANGE

REGISTERED PROFESSIONAL ENGINEER
18543PE
Digital Signature
OREGON
JULY 10, 1980
JEFFREY D KANYON
EXP. 6-30-27

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0001
29 OF 110

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ACP-7410

PLC10

TOTAL SOLIDS

N-0001 01

PRIMARY SLUDGE FROM LOWER PLANT

6" PS

6" PS

4" PS

PIG RECEIVER PR-7200

6" PS

6" PS

PRIMARY SLUDGE FROM UPPER PLANT

WAS

WAS

WAS

WAS

FROM WAS PUMPS

6" WAS

TNK-7200 SLUDGE BLENDING TANK

120V

TOTAL SOLIDS

AIT 7202

120V

M

CS

"MSC"

D

3" BS

TOTAL SOLIDS

AE 7202

KV 7202

SP-7220 SLUDGE MIXING PUMP

6" BS

3" BS

6" BS

6" BS

3" NPW

3" NPW

FROM NON-POTABLE WATER

3/4" HW

1-1/4" CW2

FROM CW2

3/4" CW2

1-1/2" HW2

TO FLOW METER FLUSHING

ET-7202 EXPANSION TANK

480V

WH-7202 WATER HEATER

PSH 7211

M

FE 7211

M

BSP-7211 BLENDED SLUDGE PUMP 1

BS

TO ROTARY DRUM THICKENER 1

PSH 7212

M

FE 7212

M

BSP-7212 BLENDED SLUDGE PUMP 2

BS

TO ROTARY DRUM THICKENER 1

PSH 7213

M

FE 7213

M

BSP-7213 BLENDED SLUDGE PUMP 3

BS

TO ROTARY DRUM THICKENER 1

Jacobs

PLOT TIME: 03:33

PLOT DATE: 27-FEB-2026

FILENAME: N-0002_D3838501.dwg

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0002 30 OF 110

RECORD DRAWING PROFESSIONAL ENGINEER Digital Signature Reference Only JEFFREY D KNOX

EXP: 6-30-27

SCALE VERT: AS SHOWN HORIZ: AS SHOWN

DATE: MARCH 2026

PROJECT NO.: CIPWW00047

LEGAL SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - BLENDED SLUDGE TANK P&ID

LOCATION: IN THE CITY OF GRESHAM

CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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ACP-7410

PLC-10

FV7411 CLSD · FV7411 OPND · FV7411 REM · FV7411 CLSE · FV7411 OPEN · CON7421 ESTP · CON7421 REM · CON7421 RFWD · CON7421 ZSPD · CON7421 RREV · CON7421 SREV · CON7421 SFWD · CON7421 OVLD · SV7441 OPEN · I 120V · CENT7401 STRT · CENT7401 SPAO · CENT7401 REM · CENT7401 RUN · CENT7401 FLT · CENT7401 ON · CENT7401 GENL · CENT7401 FLOW · FV7471 CLSD · FV7471 OPND · FV7471 REM · FV7471 CLSE · FV7471 OPEN · FV7451 CLSD · FV7451 OPND · FV7451 REM · FV7451 CLSE · FV7451 OPEN · CON7431 REM · CON7431 ESTP · CON7431 RUN · CON7431 ZSPD · CON7431 OVLD · CON7431 STRT

1 2 3 14 15 7 8

480V MCC ✳✳ — I I — 4 5 12 6 — "POWER"

480V LCP-7401 CENTRIFUGE 1 LCP1 — ESTOP HS 7401A — PLC-7401 CENTRIFUGE 1 PLC1 — VFD-7401A CENTRIFUGE 1 VFD1 — VFD-7401B CENTRIFUGE 1 VFD2

480V MCC ✳✳ — I I — 9 10 13 11 — "POWER"

CS-7421: HOA (HS 7421C) · START FOR (HS 7421D) · START REV (HS 7421E) · STOP (HS 7421F) · RESET (HS 7421G) · YL 7421A RUN-FOR · YL 7421B RUN-REV · YL 7421C STOPPED

QTY. (1) — QTY. (5) — "POWER" — "POWER"

CENTRIFUGE 1 TJB

TT 7401A · TE 7401A · SE 7401 · VT 7401A · VE 7401A · ESTOP HS 7401B · VT 7401B · VE 7401B · TT 7401B · TE 7401B

TSH 7401A — M AS — BOWL DRIVE HP:50 RPM:1800

TSH 7401B — M AS — SCROLL DRIVE HP:20 RPM:1800

"POWER" — 480VAC — CRN-7481 MONORAIL HOIST 1

CENT-7401 CENTRIFUGE 1

✳ CENTRIFUGE PACKAGE SYSTEM

CS-7431: HOA (HS 7431C) · START (HS 7431D) · STOP (HS 7431E) · RESET (HS 7431F) · YL 7431A RUNNING · YL 7431B STOPPED

FROM EXISTING DIGESTED SLUDGE PUMP 1 — 6" DS — 4" DS — 2" DS

SLUDGE SAMPLING POINT

1 2 — ZSC 7411 · ZSO 7411 ✳ — HS 7411 M LR/OSC 120V ✳ — FV 7411

2" NPW — 2" POS

N-0008 | 01 — 2" POS — FROM DEWATERING POLYMER BLENDING UNIT 1

6" CEN — 2" CEN — D — DWS

3 — 120V FC — FV 7441 — 2" NPW

2" NPW — FROM NPW SOURCE

5 — 6" FA — ESTOP HS 7421A ✳ — F — 6" FA — 6 M CS-R

CON-7421 CENTRIFUGE DISCHARGE CONVEYOR 1 HP: 2.0

4 — 120V — SSL 7421 ✳ — SE 7421 ✳

9 — 120V — SSL 7431 ✳ — SE 7431 ✳ — ESTOP HS 7421B ✳ — 12 — DWS

10 — 6" FA — ESTOP HS 7431A ✳ — F — 6" FA — M CS

11 — CON-7431 CENTRIFUGE TRANSFER CONVEYOR 1 HP: 2.0

14 15 — ZSC 7471 · ZSO 7471 ✳ — HS 7471 M LR/OSC 120V ✳ — FV 7471

8" FA — 8" FA — DA-7461 ✳ CENTRATE DEAERATOR 1 — CENTRATE SAMPLING POINT

2" NPW

7 8 — ZSC 7451 · ZSO 7451 ✳ — HS 7451 M LR/OSC 480V ✳ — FV 7451 — 6" SLOP/D

2" D — ESTOP HS 7431B ✳ — 13

DWS (CHUTE) — 01 | N-0005 — TO EXISTING CONVEYOR SYSTEM

CITRIC ACID FEED (FUTURE) — 1" CA

8" CEN — 6" CEN/SLOP — TIE INTO EXISTING FILTRATE PIPING

Jacobs

PLOT TIME: 03:33 · PLOT DATE: 27-FEB-2026 · FILENAME: N-0003_D3838501.dwg

DATE	NO.	REVISION	BY

SHEET N-0003 31 OF 110

DESIGNED: CD · DRAWN: JB · CHECKED: JK · APPROVED: HL

RECORD COPY PROFESSIONAL ENGINEER OREGON JULY 12, 2005 JEFFREY D KANNOY Digitally Signed EXP: 6-30-27

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SCALE VERT: AS SHOWN · HORIZ: AS SHOWN · DATE: MARCH 2026 · PROJECT NO.: CIPWW00047 · LEGAL · SECTION · TOWNSHIP · RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - CENTRIFUGE 1 P&ID

LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

ACP-7410

PLC-10

FV7412 CLSD
FV7412 OPND
FV7412 REM
FV7412 CLSE
FV7412 OPEN
CON7422 ESTP
CON7422 REM
CON7422 RFWD
CON7422 ZSPD
CON7422 RREV
CON7422 SREV
CON7422 SFWD
CON7422 OVLD
SV7442 OPEN
CENT7402 START
CENT7402 SPAO
CENT7402 REM
CENT7402 RUN
CENT7402 FLT
CENT7402 ON
CENT7402 GENL
CENT7402 FLOW
FV7472 CLSD
FV7472 OPND
FV7472 REM
FV7472 CLSE
FV7472 OPEN
FV7452 CLSD
FV7452 OPND
FV7452 REM
FV7452 CLSE
FV7452 OPEN
CON7432 ESTP
CON7432 REM
CON7432 RUN
CON7432 ZSPD
CON7432 OVLD
CON7432 STRT

I 120V

1 2 3 14 15 7 8

480V

MCC **

I I

4 5 12 6 "POWER"

480V

LCP-7402
CENTRIFUGE 2 LCP1

ESTOP
HS 7402A

PLC-7402
CENTRIFUGE 2 PLC1

VFD-7402A
CENTRIFUGE 2 VFD1

VFD-7402B
CENTRIFUGE 2 VFD2

480V

MCC **

I I

9 10 13 11 "POWER"

CS-7422

HOA HS 7422C
START FOR HS 7422D
START REV HS 7422E
STOP HS 7422F
RESET HS 7422G

YL 7422A RUN-FOR
YL 7422B RUN-REV
YL 7422C STOPPED

QTY. (1) QTY. (5)

"POWER" "POWER"

CENTRIFUGE 1 TJB

TT 7402A
TE 7402A
SE 7402
VT 7402A
VE 7402A
ESTOP
HS 7402B
VT 7402B
VE 7402B
TT 7402B
TE 7402B

TSH 7402A
M AS
BOWL DRIVE
HP:50
RPM:1800

TSH 7402B
M AS
SCROLL DRIVE
HP:20
RPM:1800

"POWER"
480VAC
CRN-7482
MONORAIL
HOIST 2

CS-7432

HOA HS 7432C
START HS 7432D
STOP HS 7432E
RESET HS 7432F

YL 7432A RUNNING
YL 7432B STOPPED

6" DS 4" DS 2" DS

FROM EXISTING
DIGESTED
SLUDGE PUMP 2

CENT-7402
CENTRIFUGE 2

SLUDGE
SAMPLING
POINT

∗ CENTRIFUGE PACKAGE SYSTEM

1 2
ZSC 7412
ZSO 7412
HS 7412 M LR/OSC
120V
FV 7412

2" NPW
2" POS
6" CEN
2" CEN
D
DWS

N-0008 02 2" POS

FROM DEWATERING
POLYMER BLENDING UNIT 2

3
120V
FC S
4
FV 7442
2" NPW

5 6" FA
ESTOP
HS 7422A
F
6" FA
M CS-R

CON-7422
CENTRIFUGE
DISCHARGE
CONVEYOR 2
HP: 2.0

6
10 6" FA
ESTOP
HS 7432A
F
6" FA
M CS

11
CON-7432
CENTRIFUGE
TRANSFER
CONVEYOR 2
HP: 2.0

2" NPW 2" NPW

FROM NPW
SOURCE

14 15
ZSC 7472
ZSO 7472
HS 7472 M LR/OSC
120V
FV 7472

8" FA
8" FA
DA-7462 ∗
CENTRATE
DEAERATOR 2

CENTRATE
SAMPLING
POINT

2" NPW

9
120V
SSL 7432
SE 7432
ESTOP
HS 7422B
12
2" D

7 8
ZSC 7452
ZSO 7452
HS 7452 M LR/OSC
480V
FV 7452
6" SLOP/PD

ESTOP
HS 7432B
13

DWS (CHUTE) 01 N-0005
TO EXISTING CONVEYOR SYSTEM

CITRIC ACID FEED
(FUTURE)
1" CA

8" CEN

6" CEN/SLOP
TIE INTO EXISTING
FILTRATE PIPING

Jacobs

PLOT TIME: 03:34
PLOT DATE: 27-FEB-2026
FILENAME: N-0004_D3838501.dwg

BY					
REVISION					
NO.					
DATE					

SHEET N-0004
32 OF 110

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

RECEIVED PROFESSIONAL ENGINEER STATE OF OREGON JEFFREY D KNOX 12-30-25 Digitally Signed
EXP: 6-30-27

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - CENTRIFUGE 2 P&ID

LOCATION:

IN THE CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

CITY OF GRESHAM

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REUSE OF DOCUMENTS:

ACP-7410

PLC-10

LCP8912 HORN
LCP8912 SIL
LT8912A LVL
LT8912A HIGH
LT8912B LVL
LT8912B HIGH
CONR01 RUN'G
ESTOP ALARM
LT8912C LVL
LT8912C HIGH
LT8912D LVL
LT8912D HIGH
READY
MOTOR OV'LOAD
CON8910 RUN'G REV
CON8910 RUN'G FOR

1 2 3 4

MCC
NS 8911 B
NAU 8910 A ESTOP
NI 8910
IAH 8910 A
NS 8910 A
NS 8910

HORN
YL 8912

LCP-8912
SILENCE
HS 8912

3 1 3 1 O/R HS 8910 A

N-0003 01 DWS
FROM CENTRIFUGE 1

N-0004 01 DWS
FROM CENTRIFUGE 2

ESTOP HS 8910 M

CON-R01
EXISTING CONVEYOR

1 2
LI 8912A
LI 8912B
"MSC" "MSC"
LT 8912A
LT 8912B
120V UPS

ESTOP HS 8910 C
2
CABLE HS 8910 D
REV/OFF/AUTO/FWD HS 8910 B
M

CON 8910
TRANSFER CONVEYOR
LENGTH: 24 FT
WIDTH: 20 IN
FLOW: 550 FT^3/HR
HP: 3

SLUDGE TRUCK

DUMP TRUCK LOADING

3 4
LI 8912C
LI 8912D
"MSC" "MSC"
LT 8912C
LT 8912D
120V UPS

INTERLOCK NOTES:

1. CON-R01 SHALL NOT RUN IN AUTO UNLESS CON 8910 IS RUNNING.
2. CON-R01 STOPS RUNNING WHEN AN E STOP SHUTDOWN OCCURS.
3. HIGH LEVEL WILL STOP FEED CONVEYORS. LOSS OF HIGH LEVEL AND RESET BY OPERATORS WILL RELEASE INTERLOCK.

NO.	DATE	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0005
33 OF 110

REGISTERED PROFESSIONAL ENGINEER STATE OF OREGON JEFFREY D KNOX Digitally Signed EXP: 6-30-27

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SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: I&C - EXISTING CONVEYOR SYSTEM P&ID
LOCATION:

IN THE CITY OF GRESHAM

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CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

Jacobs

PLOT TIME: 03:34
PLOT DATE: 27-FEB-2026
FILENAME: N-0005_D3383501.dwg

ACP-7410-2

PLC-10A

LAH7631 HIGH
LAL7631 LOW
LIT7631 LVL
LCP7631 HORN
LCP7631 SIL
PMP7611 STRT
PMP7611 REM
PMP7611 RUN
PMP7611 FLT
PMP7611 TAH
PMP7611 PSH
BLND7601 STRT
BLND7601 SPAO
BLND7601 REM
BLND7601 RUN
BLND7601 GENL
BLND7601 FLOW

(1)

STROBE/HORN
YL 7631

120VAC UPS

LCP-7631
POLYMER UNLOAD PANEL
LAH 7631
LAL 7631
LI 7631
SILENCE
HS 7631

120V

LCP-7601
HOA HS 7601A
PUMP SPEED HS 7601B
MIXER SPEED HS 7601C
RUNNING YL 7601A
POWER YL 7601B
LOW WATER YL 7601C
LOW POLYMER YL 7601D

"POWER"
"POWER"
PI 7601

3" CW2
CITY WATER
(2)

2" CW2
PRV-7641
1" CW2
F. C.
FV 7601
FI 7601
CW2

CS-7661 **
HOA HS 7661A
START HS 7661B
STOP HS 7661C
RESET HS 7661D
YL 7661A RUNNING
YL 7661B STOPPED

V
CALIBRATION COLUMN 1
M
FIT 7601
1" POL
3" POL
PDIT 7601
PDSL 7601
PMP-7601
THICKENING NEAT POLYMER PUMP 1
AS
BLND-7601
THICKENING POLYMER BLENDING UNIT 1
2" POS
TO RDT 1
TO RDT 2
TO RDT 3
* THICKENING POLYMER PACKAGE SYSTEM

3" POL
POLYMER FILL STATION
(1)
D
3" POL
MCC **
(2)
"POWER"
PISH 7611
PE 7611
PI 7621
PE 7621
120V
TSH 7611
TE 7611
M
D
CS
PMP-7611
THICKENING RECIRCULATION PUMP 1
3" POL/OF
3" POL/V
V
1" POL/V FOR FUTURE DESSICANT CONNECTION
TNK-7631
THICKENING POLYMER STORAGE TANK
LE 7631
LIT 7631
3" POL/D
3" POL

2" CW2
PRV-7642
1" CW2
01 N-0007
TO THICKENING POLYMER BLENDING UNIT 2
02 N-0007
TO THICKENING POLYMER BLENDING UNIT 2
3" POL
1" POL
N-0007 05
FROM THICKENING POLYMER BLENDING UNIT 2
2" POS
* THICKENING POLYMER PACKAGE SYSTEM

2" CW2
PRV-7643
1" CW2
03 N-0007
TO THICKENING POLYMER BLENDING UNIT 3
04 N-0007
TO THICKENING POLYMER BLENDING UNIT 3
3" POL
1" POL
N-0007 06
FROM THICKENING POLYMER BLENDING UNIT 3
2" POS
* THICKENING POLYMER PACKAGE SYSTEM

POLYMER CONTAINMENT CURB

CONTAINMENT CONTINUED ON P&ID N-0008

Jacobs

PLOT TIME: 03:34
PLOT DATE: 27-FEB-2026
FILENAME: N-0006_D3838501.dwg

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0006
34 OF 110

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RECORD PROFESSIONAL ENGINEER STATE OF OREGON Digital Signature JEFFREY D KAPLAN 12-31-2026

EXP: 6-30-27

SCALE VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - THICKENING POLYMER SYSTEM P&ID SHEET 1

LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

ACP-7410-2

PLC-10A

BLND7602 STRT
BLND7602 SPAO
BLND7602 REM
BLND7602 RUN
BLND7602 GENL
BLND7602 FLOW

BLND7603 STRT
BLND7603 SPAO
BLND7603 REM
BLND7603 RUN
BLND7603 GENL
BLND7603 FLOW

120V

LCP-7602

HOA
HS 7602A

PUMP SPEED
HS 7602B

MIXER SPEED
HS 7602C

RUNNING
YL 7602A

POWER
YL 7602B

LOW WATER
YL 7602C

LOW POLYMER
YL 7602D

"POWER"
"POWER"

PI 7602

N-0006 01
CITY WATER

S F. C.
FV 7602
FI 7602

CW2

V

CALIBRATION COLUMN 2

FIT 7602

M

N-0006 02
FROM THICKENING POLYMER STORAGE

AS

PMP-7602
THICKENING NEAT POLYMER PUMP 2

M

BLND-7602
THICKENING POLYMER BLENDING UNIT 2

PDIT 7602
PDSL 7602

05 N-0006
TO RDT 2

* THICKENING POLYMER PACKAGE SYSTEM

D

120V

LCP-7603

HOA
HS 7603A

PUMP SPEED
HS 7603B

MIXER SPEED
HS 7603C

RUNNING
YL 7603A

POWER
YL 7603B

LOW WATER
YL 7603C

LOW POLYMER
YL 7603D

"POWER"
"POWER"

PI 7603

N-0006 03
CITY WATER

S F. C.
FV 7603
FI 7603

CW2

V

CALIBRATION COLUMN 3

FIT 7603

M

N-0006 04
FROM THICKENING POLYMER STORAGE

AS

PMP-7603
THICKENING NEAT POLYMER PUMP 3

M

BLND-7603
THICKENING POLYMER BLENDING UNIT 3

PDIT 7603
PDSL 7603

2" POS
06 N-0006
TO RDT 3

* THICKENING POLYMER PACKAGE SYSTEM

D

Jacobs

PLOT TIME: 03:35
PLOT DATE: 27-FEB-2026
FILENAME: N-0007_03838501.dwg

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0007
35 OF 110

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RECORD OF PROFESSIONAL ENGINEER — Digital Signature — JEFFREY D KANNOY

EXP: 6-30-27

SCALE	VERT: AS SHOWN
	HORIZ: AS SHOWN
DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047
	LEGAL
SECTION	TOWNSHIP / RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - THICKENING POLYMER SYSTEM P&ID SHEET 2

LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

ACP-7410-2

PLC-10A

PMP7663 STRT
PMP7663 REM
PMP7663 RUN
PMP7663 FLT
PMP7663 TAH
PMP7663 PSH

LAH7685 HIGH
LAL7685 LOW
LIT7685 LVL
LCP7685 HORN
LCP7685 SIL

FV7685 CLSD
FV7685 OPND
FV7685 REM
FV7685 CLSE
FV7685 OPEN

BLND7651 STRT
BLND7651 SPAO
BLND7651 REM
BLND7651 RUN
BLND7651 GENL
BLND7651 FLOW

STROBE/HORN
YL 7685

120VAC UPS

LCP-7685
POLYMER UNLOAD PANEL
LAH 7685
LAL 7685
LI 7685
HS 7685
SILENCE

LCP-7651
120V
HOA HS 7651A
PUMP SPEED HS 7651B
MIXER SPEED HS 7651C
RUNNING YL 7651A
POWER YL 7651B
LOW WATER YL 7651C
LOW POLYMER YL 7651D

"POWER"
"POWER"
PI 7651

3" CW2
CITY WATER

POLYMER FILL STATION
3" POL
3" POL
3" POL/V
V
1" POL/V FOR FUTURE DESSICANT CONNECTION
3" POL/OF
D
TNK-7685
DEWATERING POLYMER STORAGE TANK 5
3" POL/D
D
D

LE 7685
LIT 7685
1
2
HS 7685
ZSC 7685
120V
M
FV-7685A
ZSO 7685

2" CW2
PRV-7691
1.5" CW2
F. C.
FI 7651
V
FV 7651
CALIBRATION COLUMN 1
1" POL
3" POL
M
FIT 7651
PMP-7651
DEWATERING NEAT POLYMER PUMP 1
AS
PDIT 7651
PDSL 7651
M
2" POS
01 N-0003
TO CENTRIFUGE 1
BLND-7651
DEWATERING POLYMER BLENDING UNIT 1
∗ DEWATERING POLYMER PACKAGE SYSTEM
D

CS-7663 ∗∗
HOA HS 7663A
START HS 7663B
STOP HS 7663C
RESET HS 7663D
MCC ∗∗
RUNNING YL 7663A
STOPPED YL 7663B

120V
"POWER"
PSH 7663
TSH 7663
PI 7673
PE 7663
TE 7663
PE 7673
M
PMP-7663
DEWATERING RECIRCULATION PUMP 3
CS
D

2" CW2
PRV-7692
1.5" CW2
07 N-0011
TO DEWATERING POLYMER BLENDING UNIT 2
3" POL
1" POL
08 N-0011
TO DEWATERING POLYMER BLENDING UNIT 2
N-0011 05
FROM DEWATERING POLYMER BLENDING UNIT 2
2" POS
∗ DEWATERING POLYMER PACKAGE SYSTEM

2" CW2
PRV-7693
1.5" CW2
09 N-0011
TO DEWATERING POLYMER BLENDING UNIT 3
3" POL
1" POL
10 N-0011
TO DEWATERING POLYMER BLENDING UNIT 3
N-0011 06
FROM DEWATERING POLYMER BLENDING UNIT 3
2" POS
∗ DEWATERING POLYMER PACKAGE SYSTEM
02 N-0004
TO CENTRIFUGE 2

N-0009 03
FROM DEWATERING POLYMER STORAGE TANKS 1 AND 2

N-0010 04
FROM DEWATERING POLYMER STORAGE TANKS 3 AND 4

POLYMER CONTAINMENT CURB
CONTAINMENT CONTINUED ON P&ID N-0006
POLYMER CONTAINMENT SUMP
D

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0008
36 OF 110

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RECEIVED PROFESSIONAL ENGINEER OREGON JULY 12, 1994 JEFFREY D KAMM
Digitally Signed
EXP: 6-30-27

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - DEWATERING POLYMER SYSTEM P&ID SHEET 1

LOCATION: IN THE CITY OF GRESHAM

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DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

CITY OF GRESHAM

PLOT TIME: 03:33
PLOT DATE: 27-FEB-2026
FILENAME: N-0008_D3838501.dwg

ACP-7410-2

PLC-10A

PMP7661 STRT | PMP7661 REM | PMP7661 RUN | PMP7661 FLT | PMP7661 TAH | PMP7661 PSH | FV7532B CLSD | FV7532B OPND | FV7532B REM | FV7532B CLSE | FV7532B OPEN | FV7531 CLSD | FV7531 OPND | LAH7532 HIGH | LAL7532 LOW | LIT7532 LVL | LCP7530 HORN | LCP7530 SIL | LAH7536 HIGH | LAL7536 LOW | LIT7536 LVL | FV7531 REM | FV7531 CLSE | FV7531 OPEN | FV7532C REM | FV7532C CLSE | FV7532C OPEN | FV7532C CLSD | FV7532C OPND | FV7536B CLSD | FV7536B OPND | FV7536B REM | FV7536B CLSE | FV7536B OPEN | FV7532A CLSD | FV7532A OPND | FV7532A REM | FV7532A CLSE | FV7532A OPEN | FV7536C REM | FV7536C CLSE | FV7536C OPEN | FV7536C CLSD | FV7536C OPND | FV7536A CLSD | FV7536A OPND | FV7536A REM | FV7536A CLSE | FV7536A OPEN

STROBE/HORN
YL 7530

120VAC UPS

LCP-7530
POLYMER UNLOAD PANEL
LAH 7532 | LAL 7532 | LI 7532
SILENCE
HS 7530
LAH 7536 | LAL 7536 | LI 7536

3" POL

MCC**

PISH 7661 | PI 7671 | "POWER"
PE 7661 | PE 7671
120V
TSH 7661
TE 7661
M
D
CS
PMP-7661
DEWATERING RECIRCULATION PUMP 1

CS-7661 **
HOA | START | STOP | RESET
HS 7661A | HS 7661B | HS 7661C | HS 7661D
YL 7661A RUNNING | YL 7661B STOPPED

3" POL

HS 7531 | ZSC 7531 | ZSO 7531
M
FV-7531

3" POL

HS 7532C | ZSC 7532C | ZSO 7532C
M
FV-7532C
V
3" POL/V
1" POL/V FOR FUTURE DESSICANT CONNECTION
LIT 7532
3" POL/OF
PAT 7532 DEWATERING POLYMER STORAGE TANK 1
3" POL/D
D

HS 7532B | ZSC 7532B | ZSO 7532B
480V
M
FV-7532B

3" POL

HS 7532A | ZSC 7532A | ZSO 7532A
M
FV-7532A
480V

3" POL

3" POL

HS 7536C | ZSC 7536C | ZSO 7536C
M
FV-7536C
V
3" POL/V
1" POL/V FOR FUTURE DESSICANT CONNECTION
LIT 7536
3" POL/OF
PAT 7536 DEWATERING POLYMER STORAGE TANK 2
3" POL/D
D

HS 7536B | ZSC 7536B | ZSO 7536B
480V
M
FV-7536B

3" POL

HS 7536A | ZSC 7536A | ZSO 7536A
M
FV-7536A
480V

3" POL

3" POL

POLYMER FILL STATION
D

03 | N-0008
TO DEWATERING POLYMER SYSTEM

Jacobs

PLOT TIME: 03:35
PLOT DATE: 27-FEB-2026
FILENAME: N-0009_D3838501.dwg

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0009 37 OF 110

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REGISTERED PROFESSIONAL ENGINEER — JEFFREY D. KNOX — Digital Signature — EXP: 6-30-27

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION | TOWNSHIP | RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - DEWATERING POLYMER STORAGE TANKS 1 AND 2 P&ID

LOCATION:

IN THE CITY OF GRESHAM

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CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
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GRESHAM, OREGON 97030-3813
503-618-2525

ACP-7410-2

PLC-10A

PMP7661 STRT | PMP7661 REM | PMP7661 RUN | PMP7661 FLT | PMP7661 TAH | PMP7661 PSH | FV7542B CLSD | FV7542B OPND | FV7542B REM | FV7542B CLSE | FV7542B OPEN | FV7541 CLSD | FV7541 OPND | LAH7542 HIGH | LAL7542 LOW | LIT7542 LVL | LCP7540 HORN | LCP7540 SIL | LAH7546 HIGH | LAL7546 LOW | LIT7546 LVL | FV7541 REM | FV7541 CLSE | FV7541 OPEN | FV7542C REM | FV7542C CLSE | FV7542C OPEN | FV7542C CLSD | FV7542C OPND | FV7546B CLSD | FV7546B OPND | FV7546B REM | FV7546B CLSE | FV7546B OPEN | FV7542A CLSD | FV7542A OPND | FV7542A REM | FV7542A CLSE | FV7542A OPEN | FV7546C REM | FV7546C CLSE | FV7546C OPEN | FV7546C CLSD | FV7546C OPND | FV7546A CLSD | FV7546A OPND | FV7546A REM | FV7546A CLSE | FV7546A OPEN

STROBE/HORN
YL 7540

120VAC UPS

LCP-7540
POLYMER UNLOAD PANEL
LAH 7542 | LAL 7542 | LI 7542
SILENCE
HS 7540
LAH 7546 | LAL 7546 | LI 7546

3" POL

MCC**

CS-7662 **
HOA | START | STOP | RESET
HS 7662A | HS 7662B | HS 7662C | HS 7662D
YL 7662A RUNNING | YL 7662B STOPPED

PISH 7662 | PE 7662 | PI 7672 | PE 7672 | "POWER"

120V

TSH 7662 | TE 7662 | M

D

CS

PMP-7662
DEWATERING RECIRCULATION PUMP 2

POLYMER FILL STATION

HS 7541 | ZSC 7541 | ZSO 7541 | M
FV-7541

HS 7542C | ZSC 7542C | ZSO 7542C | M
FV-7542C

V | LIT 7542 | 3" POL/V
1" POL/V FOR FUTURE DESSICANT CONNECTION

3" POL/OF
PAT 7542 DEWATERING POLYMER STORAGE TANK 3
3" POL/D

HS 7542B | ZSC 7542B | ZSO 7542B | M | 480V
FV-7542B

HS 7542A | ZSC 7542A | ZSO 7542A | M | 480V
FV-7542A

HS 7546C | ZSC 7546C | ZSO 7546C | M
FV-7546C

V | LIT 7546 | 3" POL/V
1" POL/V FOR FUTURE DESSICANT CONNECTION

3" POL/OF
PAT 7546 DEWATERING POLYMER STORAGE TANK 4
3" POL/D

HS 7546B | ZSC 7546B | ZSO 7546B | M | 480V
FV-7546B

HS 7546A | ZSC 7546A | ZSO 7546A | M | 480V
FV-7546A

3" POL

04 | N-0008
TO DEWATERING POLYMER SYSTEM

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0010
38 OF 110

RECORD DRAWING PROFESSIONAL ENGINEER OREGON JULY 10, 1979 JEFFREY D. KNOX
Digital Signature
EXP: 6-30-27

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION | TOWNSHIP | RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - DEWATERING POLYMER STORAGE TANKS 3 AND 4 P&ID

LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM

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1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

PLOT TIME: 03:36
PLOT DATE: 27-FEB-2026
FILENAME: N-0010_D3838501.dwg

ACP-7410-2

PLC-10A

BLND7652 STRT | BLND7652 SPAO | BLND7652 REM | BLND7652 RUN | BLND7652 GENL | BLND7652 FLOW

BLND7653 STRT | BLND7653 SPAO | BLND7653 REM | BLND7653 RUN | BLND7653 GENL | BLND7653 FLOW

120V

LCP-7652

HOA: HS 7652A

PUMP SPEED: HS 7652B

MIXER SPEED: HS 7652C

RUNNING: YL 7652A

POWER: YL 7652B

LOW WATER: YL 7652C

LOW POLYMER: YL 7652D

"POWER"

"POWER"

PI 7652

N-0008 07
CITY WATER

F. C.

FV 7652

FI 7652

CW2

V

CALIBRATION COLUMN 2

FIT 7652

M

N-0008 08
FROM DEWATERING POLYMER STORAGE

AS

PMP-7652
DEWATERING NEAT POLYMER PUMP 2

PDIT 7652

PDSL 7652

2" POS

05 N-0008
TO CENTRIFUGE

BLND-7652
DEWATERING POLYMER BLENDING UNIT 2

* DEWATERING POLYMER PACKAGE SYSTEM

D

120V

LCP-7653

HOA: HS 7653A

PUMP SPEED: HS 7653B

MIXER SPEED: HS 7653C

RUNNING: YL 7653A

POWER: YL 7653B

LOW WATER: YL 7653C

LOW POLYMER: YL 7653D

"POWER"

"POWER"

PI 7653

N-0008 09
CITY WATER

F. C.

FV 7653

FI 7653

CW2

V

CALIBRATION COLUMN 3

FIT 7653

M

N-0008 10
FROM DEWATERING POLYMER STORAGE

AS

PMP-7653
DEWATERING NEAT POLYMER PUMP 3

PDIT 7653

PDSL 7653

2" POS

06 N-0008
TO CENTRIFUGE

BLND-7653
DEWATERING POLYMER BLENDING UNIT 3

* DEWATERING POLYMER PACKAGE SYSTEM

D

Jacobs

PLOT TIME: 03:35
PLOT DATE: 27-FEB-2026
FILENAME: N-0011_03838501.dwg

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0011 39 OF 110

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RECORD COPY PROFESSIONAL ENGINEER OREGON JULY 12, 2005 JEFFREY D KANNOY
Digital Signature
EXP: 6-30-27

SCALE
VERT: AS SHOWN
HORIZ: AS SHOWN

DATE: MARCH 2026

PROJECT NO.: CIPWW00047

LEGAL
SECTION | TOWNSHIP | RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - DEWATERING POLYMER SYSTEM P&ID SHEET 2

LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

120VAC

120VAC UPS

ACP-7410
SOLIDS FACILITY

PCNWS-7401
HMI
WORKSTATION

HMI

FACILITY
PLC-10
RACK 0

CONTROLLOGIX

FACILITY
PLC-10
RACK 1

CONTROLLOGIX

FACILITY
PLC-10
RACK 2

CONTROLLOGIX

DLR

OREGE
PHOENIX CONTACT

MB/TCP

GW

BAR-1201
BARSCREEN 1

MICROLOGIX

BAR-1202
BARSCREEN 2

MICROLOGIX

ACP-7310
THICKENING/DEWATERING
POLYMER

SLC 5/05

ETHERNET

ACP-7301
ROTARY DRUM
THICKENER 1

COMPACTLOGIX

ACP-7302
ROTARY DRUM
THICKENER 2

COMPACTLOGIX

ACP-7303
ROTARY DRUM
THICKENER 3

COMPACTLOGIX

QTY 9. CAT6

NIP-7401
SOLIDS FACILITY
NETWORK INTERFACE PANEL

UPS

UPS-9101

PCNSW7401
SCADA SWITCH

FPP-7401
(PLATE 1)

SMFO

FPP-7401
(PLATE 2)

SMFO

FPP-7401
(PLATE 1)

SMFO

FNSW7401
FACILITIES SWITCH

FOB 7407
DOOR SECURITY

FPP-7401
(PLATE 2)

SMFO

PLC-10A

CONTROLLOGIX

VFD

VFD

LCP-7401

CENTRIFUGE 1 TJB
PACKAGE SYSTEM

COMPACTLOGIX

HMI

VFD

VFD

LCP-7402

CENTRIFUGE 2 TJB
PACKAGE SYSTEM

COMPACTLOGIX

HMI

LCP-7651

DEWATERING POLYMER
BLENDING UNIT 1

COMPACTLOGIX

HMI

LCP-7653

DEWATERING POLYMER
BLENDING UNIT 3

COMPACTLOGIX

HMI

LCP-7652

DEWATERING POLYMER
BLENDING UNIT 2

COMPACTLOGIX

HMI

LCP-7601

THICKENING POLYMER
BLENDING UNIT 1

COMPACTLOGIX

HMI

LCP-7602

THICKENING POLYMER
BLENDING UNIT 2

COMPACTLOGIX

HMI

LCP-7603

THICKENING POLYMER
BLENDING UNIT 3

COMPACTLOGIX

HMI

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET
N-0018
40 OF 110

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PROFESSIONAL ENGINEER
OREGON
JEFFREY D. KNOX
Digital Signature
EXP: 6-30-27

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SCALE	VERT: AS SHOWN
	HORIZ: AS SHOWN
DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047
	LEGAL
SECTION	TOWNSHIP / RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - SOLIDS BUILDING NETWORK BLOCK DIAGRAM

LOCATION:

IN THE CITY OF GRESHAM

CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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PLOT TIME: 03:34
PLOT DATE: 27-FEB-2026
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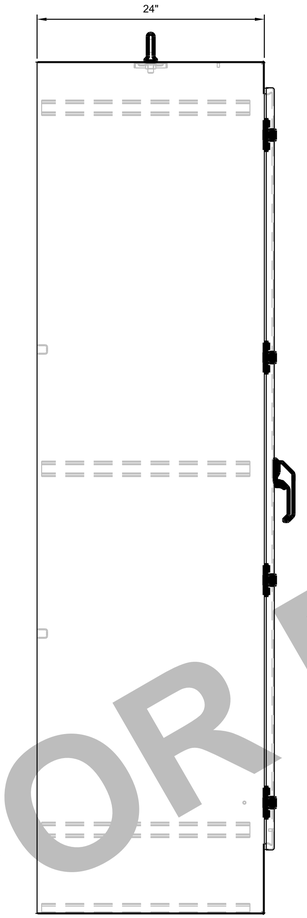

LEFT VIEW
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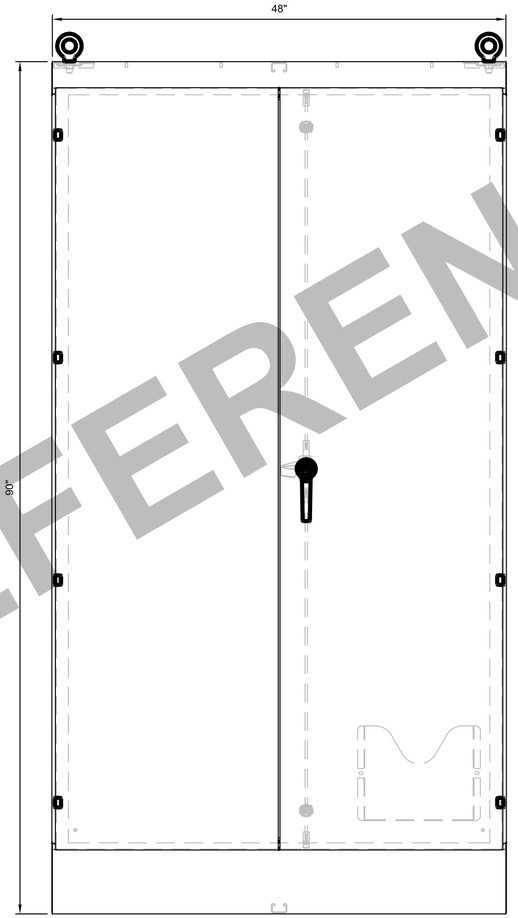

FRONT VIEW
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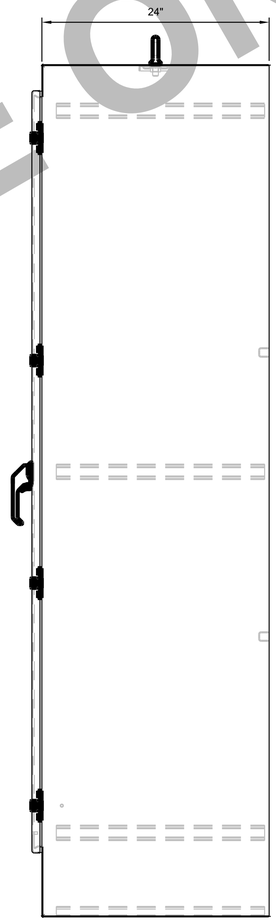

RIGHT VIEW
1 1/2"=1'-0"

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GRESHAM, OREGON 97030-3813
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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - CONCEPT RIO PANEL - PANEL EXTERIOR

LOCATION: IN THE CITY OF GRESHAM

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DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047
	LEGAL
SECTION	TOWNSHIP / RANGE

EXP: 6-30-27

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0020
41 OF 110

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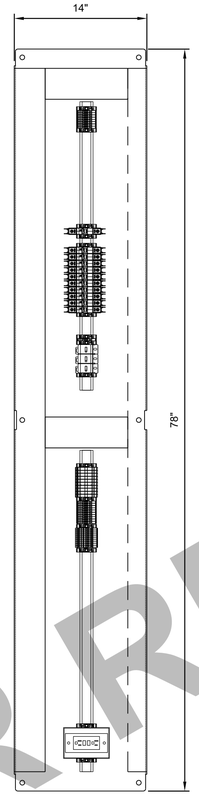
FILENAME: N-0020_D3838501.dwg PLOT DATE: 27-FEB-2026 PLOT TIME: 03:35



LEFT VIEW
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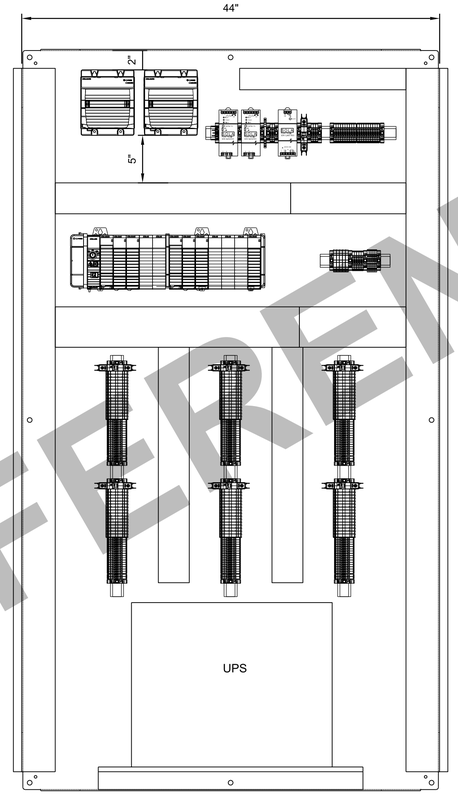

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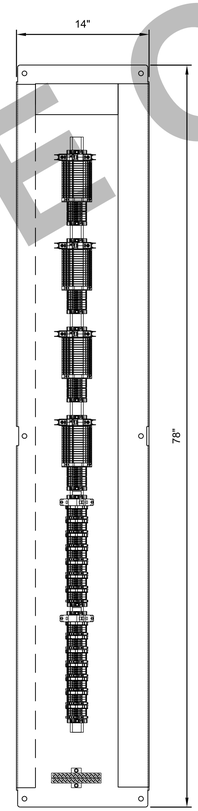

RIGHT VIEW
1 1/2"=1'-0"

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FILENAME: N-0021_D3838501.dwg PLOT DATE: 27-FEB-2026 PLOT TIME: 03:35

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - CONCEPT RIO PANEL - PANEL INTERIOR

LOCATION: IN THE CITY OF GRESHAM

SCALE	VERT: AS SHOWN
	HORIZ: AS SHOWN
DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047
	LEGAL
SECTION	TOWNSHIP / RANGE

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EXP: 6-30-27

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0021

42 OF 110

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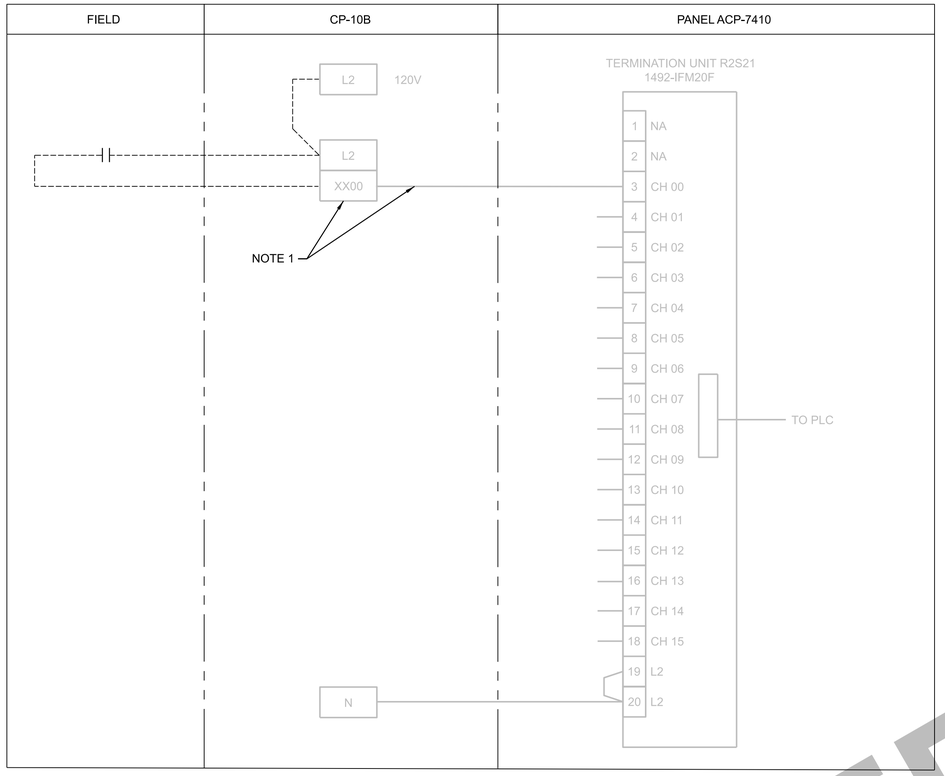
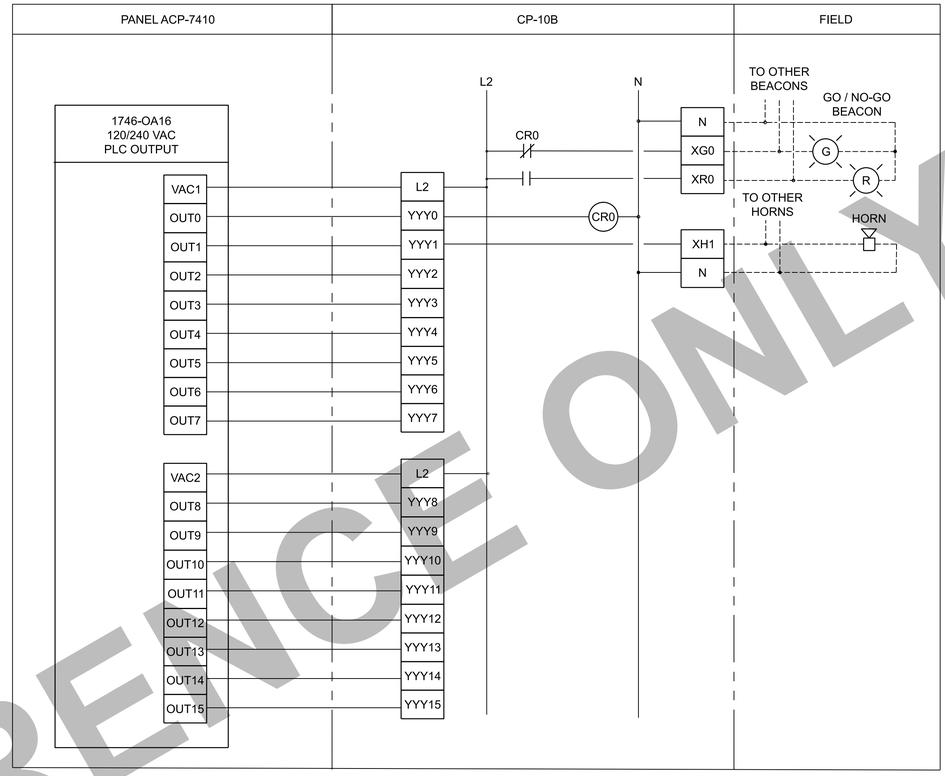
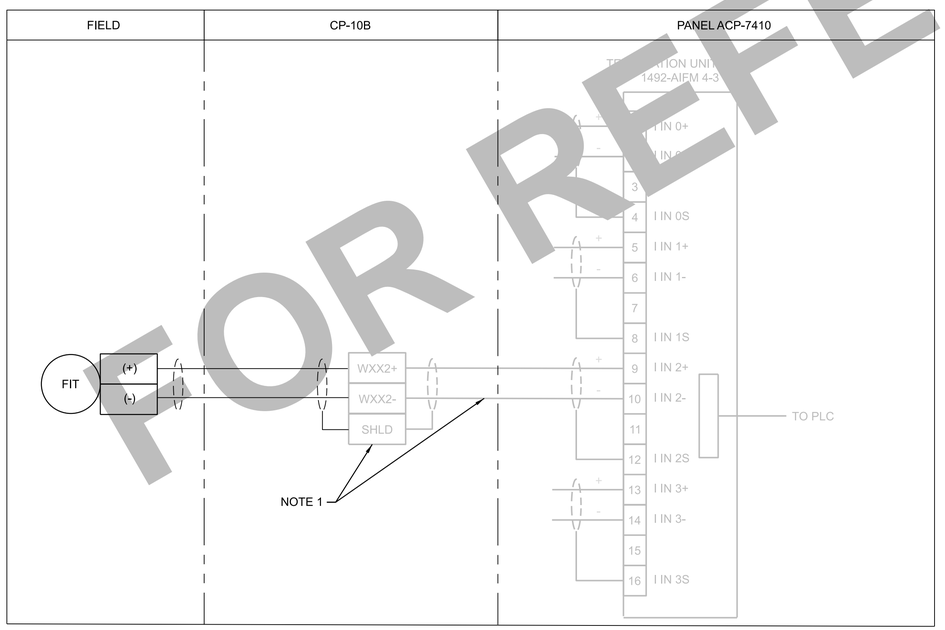


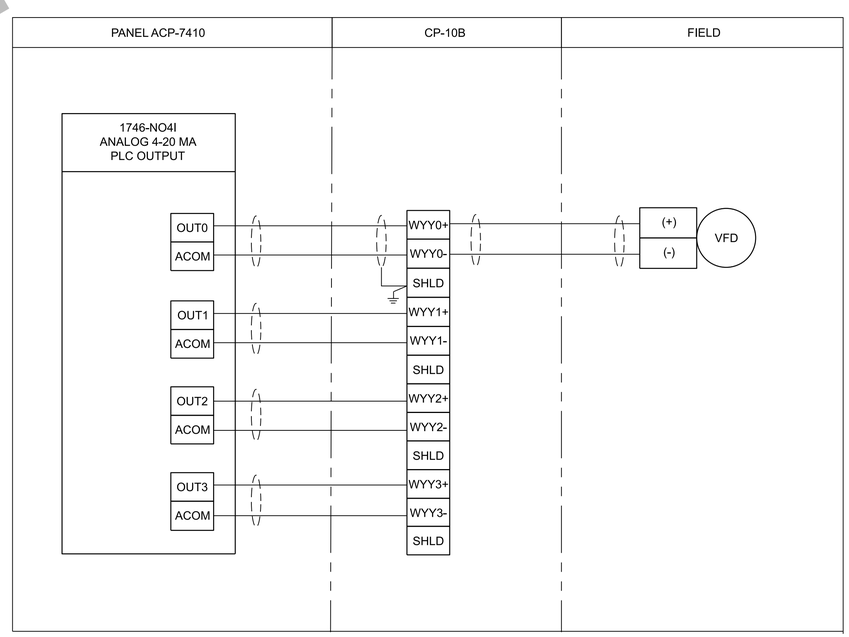
TYPICAL PLC DISCRETE INPUT



TYPICAL PLC DISCRETE OUTPUT



TYPICAL PLC ANALOG INPUT



TYPICAL PLC ANALOG OUTPUT

NOTES:

1. REUSE EXISTING TERMINAL BLOCKS AND WIRING WHERE AVAILABLE. PROVIDE NEW TERMINAL BLOCKS AND WIRING WHERE NECESSARY FOR A COMPLETE INSTALLATION.
2. FOR NEW TERMINAL BLOCKS AND WIRING, ASSIGN UNIQUE TERMINAL AND WIRE NUMBERS.

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APPROVED: HL

SHEET N-0022 43 OF 110

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DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - IO CARD TERMINALS LAYOUT SHEET

LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM

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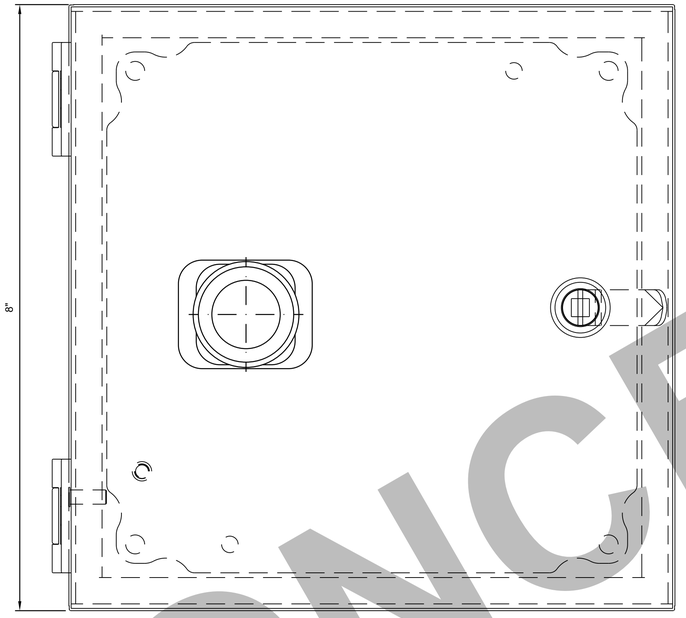
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

PLOT TIME: 03:36
PLOT DATE: 27-FEB-2026
FILENAME: N-0022_D3838501.dwg



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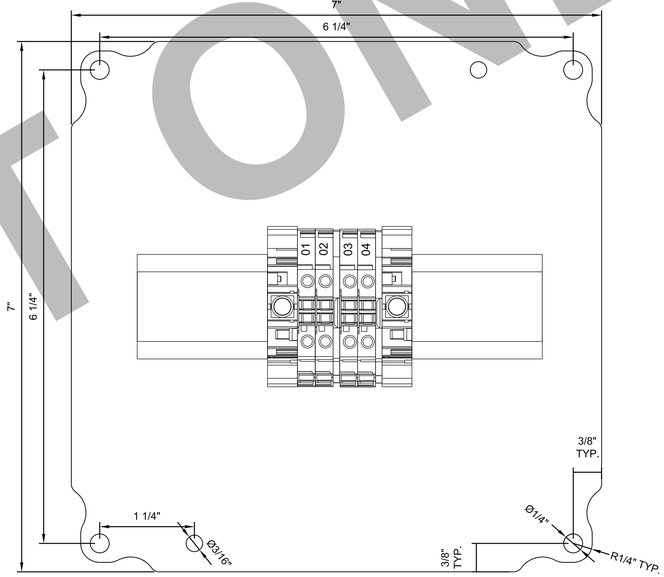

BACK PANEL
3"=1'-0"

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	NOTES
1	1	PUSH-PULL/TWIST RELEASE BUTTON BLACK	SEE M27-E DATA SHEET
2	4	TERMINAL BLOCK ZS6, FEED THROUGH, GREY	
3	2	TERMINAL BLOCK END STOP	
4	1	DIN RAIL NS 35/15MM	
5	1	ENCLOSURE, 8"H X 8"W X 4"D	
6	1	SUBPANEL, 7"H X 7"W	

CONCEPT ONLY

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CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
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503-618-2525

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - DUMP TRUCK UNLOADING PANEL - LCP-7812

LOCATION: IN THE CITY OF GRESHAM

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DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047
	LEGAL
SECTION	TOWNSHIP / RANGE

REGISTERED PROFESSIONAL ENGINEER — OREGON — JEFFREY D. KRAMER — Digital Signature — EXP: 6-30-27

DESIGNED: CD	DRAWN: JB	CHECKED: JK	APPROVED: HL

DATE	NO.	REVISION	BY

SHEET N-0030
44 OF 110

FILENAME: N-0030_D3838501.dwg PLOT DATE: 27-FEB-2026 PLOT TIME: 03:34

SHEET KEYNOTES

1. 'AAAA' INDICATES THE PANEL TAG NUMBER.

TRUCK UNLOADING PANEL- LCP-7631, LCP-7685			
NAMEPLATE SCHEDULE			
ITEM	LINE 1	LINE 2	LETTER SIZE
A	LCP-AAAA	POLYMER TRUCK UNLOADING PANEL	1/2"
B	TANK HIGH LEVEL		1/4"
C	TANK LOW LEVEL		1/4"
D	HORN SILENCE		1/4"
E	LI-AAAA		1/4"

BILL OF MATERIAL

ITEM	QTY	DESCRIPTION	NOTES
1	2	INDICATOR LIGHT, PUSH TO TEST AMBER	SEE M31-E DATA SHEET
2	1	MOMENTARY PUSHBUTTON BLACK	SEE M27-E DATA SHEET
3	1	BEACON AND HORN	SEE M32-E DATA SHEET
4	1	PANEL MOUNT HOUSING, POLYCARBONATE, UV RATED COVER, 4X	
5	1	PROGRAMMABLE LED LEVEL INDICATOR	SEE S12-F DATA SHEET
6	3	RELAY MODULE - PLC-RSC-120UC/21-21, SCREW CONNECTION, 2 CHANGEOVER CONTACT, 120VAC INPUT VOLTAGE	
7	1	RELAY MODULE - RPT-2-LV-120AC/4X21, PUSH-IN CONNECTION, 4 CHANGEOVER CONTACT, 120VAC INPUT VOLTAGE	
8	1	CONTINUOUS PLUG -IN BRIDGE, LENGTH 500MM, GRAY FBST 500-PLC GY	
9	1	CIRCUIT BREAKER, MOLDED CASE, 1P, 5AMP, TRIP CURVE C	
10	1	CIRCUIT BREAKER, MOLDED CASE, 1P, 2AMP, TRIP CURVE C	
11	1	CIRCUIT BREAKER, MOLDED CASE, 1P, 1AMP, TRIP CURVE C	
12	26	TERMINAL BLOCK ZS6, FEED THROUGH, GREY	ZS6
13	2	TERMINAL BLOCK GROUNDING, GREEN/YELLOW	ZS4-PE
14	10	END SECTION COVER - TERMINAL	ES4
15	4	TERMINAL BLOCK - END STOP	BAM4
16	AS REQ'D	JUMPER BAR JB6 - 2 POLES	JB6-2
17	AS REQ'D	JUMPER BAR JB6 - 10 POLES	JB6-10
18	AS REQ'D	LABEL - TERMINAL	
19	AS REQ'D	LABEL - ADHESIVE	
20	AS REQ'D	DIN RAIL NS 35/15MM, PERFORATED GALVANIZED STEEL	
21	AS REQ'D	WIRING DUCT, NARROW SLOT, 1.5"W X 3" H, GREY	
22	AS REQ'D	WIRING DUCT COVER, 1.5W, GREY	
23	1	ENCLOSURE, 20"H X 20"W X 10"D, NEMA 4X SS, WALL-MOUNTED, PAINTED WHITE	
24	1	SUBAPANEL, 17"H X 17"W, POWDER COATED WHITE	
25	1	DRAIN, ENCLOSURE, 1/2" MALE THREAD	
26	1	BREATHER, ENCLOSURE, 1/2" MALE THREAD	

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DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0032
45 OF 110

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DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - TRUCK UNLOADING PANEL - BOM AND NAMEPLATE SCHEDULE

LOCATION: IN THE CITY OF GRESHAM

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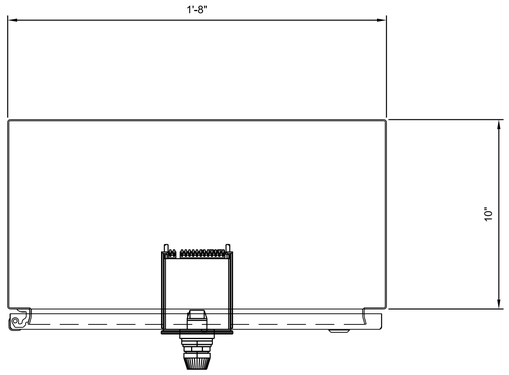
GRESHAM, OREGON 97030-3813
503-618-2525

FILENAME: N-0032_D3838501.dwg PLOT DATE: 27-FEB-2026 PLOT TIME: 03:36



ENCLOSURE
TOP VIEW
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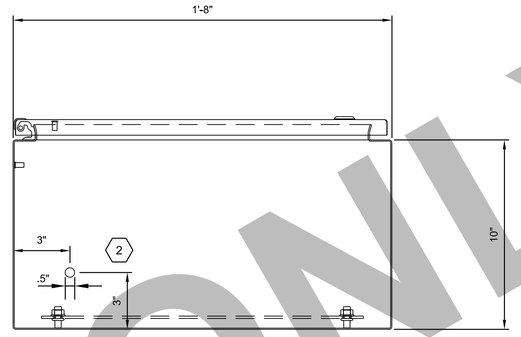
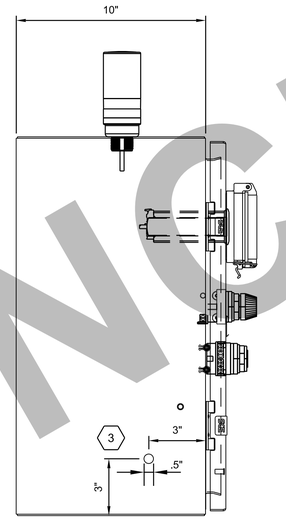
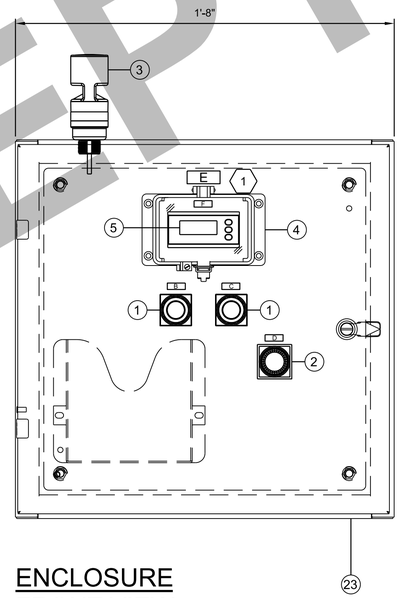


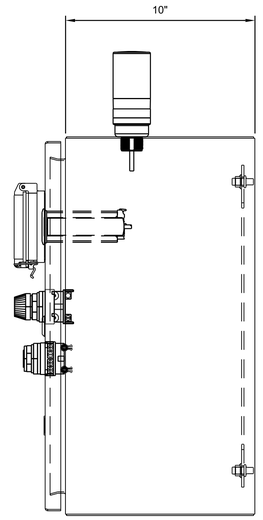
ENCLOSURE
BOTTOM VIEW
3"=1'-0"



ENCLOSURE
LEFT VIEW
3"=1'-0"



ENCLOSURE
FRONT VIEW
3"=1'-0"



ENCLOSURE
RIGHT VIEW
3"=1'-0"

GENERAL SHEET NOTES

1. A INDICATES PANEL LABEL. REFER TO NAMEPLATE SCHEDULE FOR ADDITIONAL INFORMATION.

SHEET KEYNOTES

1. FOR CUTOUT DIMENSION SEE EQUIPMENT INSTALLATION MANUALS.
2. 1/2" HOLE BORE TO FIT DRAIN.
3. 1/2" HOLE BORE TO FIT BREATHER.

CONCEPT ONLY

PLOT TIME: 03:36
PLOT DATE: 27-FEB-2026
FILENAME: N-0033_D3338501.dwg

Jacobs

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503-618-2525

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - TRUCK UNLOADING PANEL - ENCLOSURE ASSEMBLY

LOCATION: IN THE CITY OF GRESHAM

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	HORIZ: AS SHOWN
DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047
	LEGAL
SECTION	TOWNSHIP / RANGE

REGISTERED PROFESSIONAL ENGINEER — OREGON — JEFFREY D. KNOX — Digitally Signed — EXP: 6-30-27

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0033

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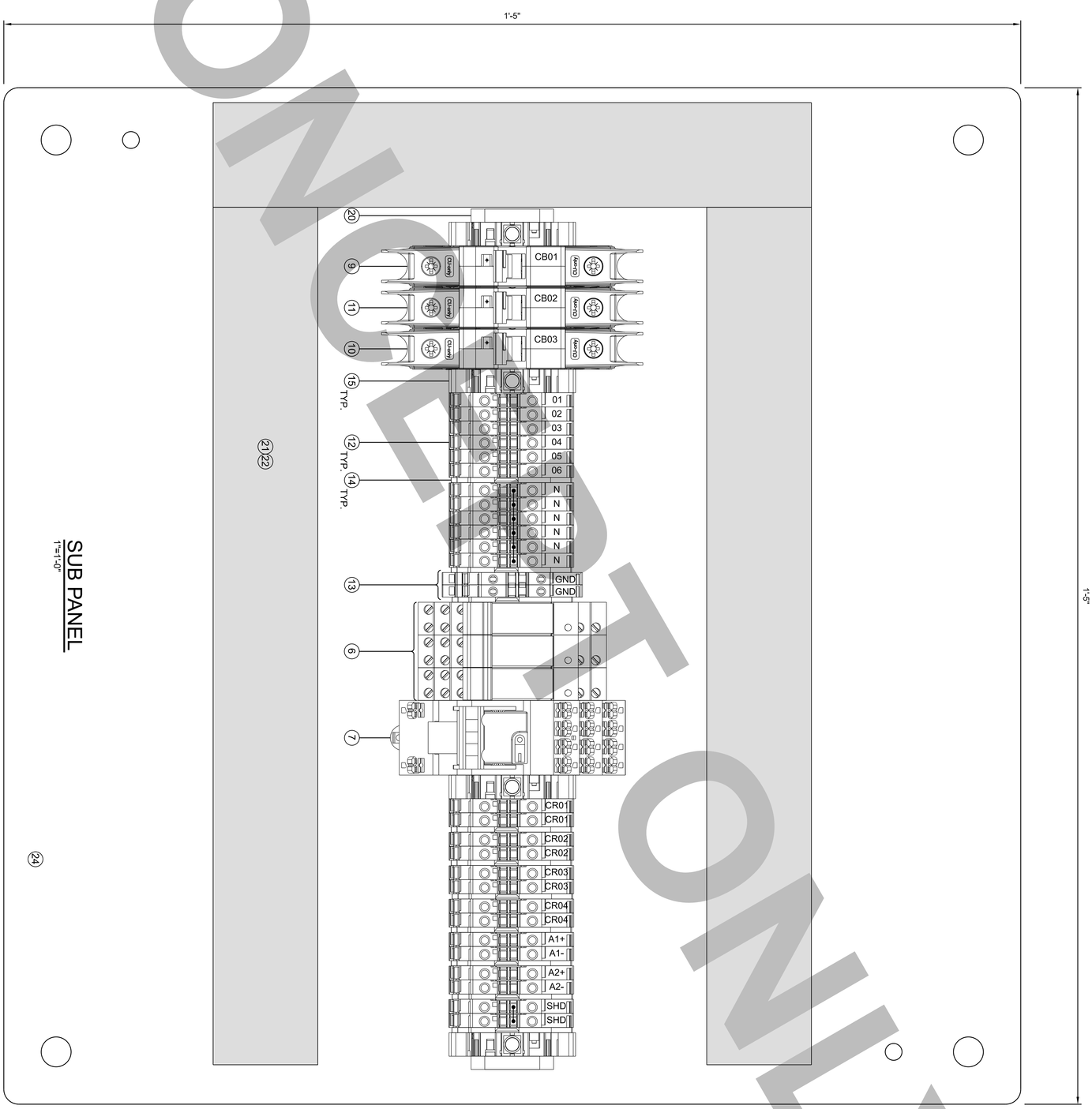

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DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - TRUCK UNLOADING PANEL - SUBPANEL ASSEMBLY

LOCATION:

IN THE CITY OF GRESHAM

SCALE	VERT: AS SHOWN
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DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047
LEGAL	
SECTION	TOWNSHIP / RANGE

REGISTERED PROFESSIONAL ENGINEER
18543PE
Digital Signature
OREGON
JULY 10, 1980
JEFFREY D KANTOR
EXP. 6-30-27

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET
N-0034
47 OF 110

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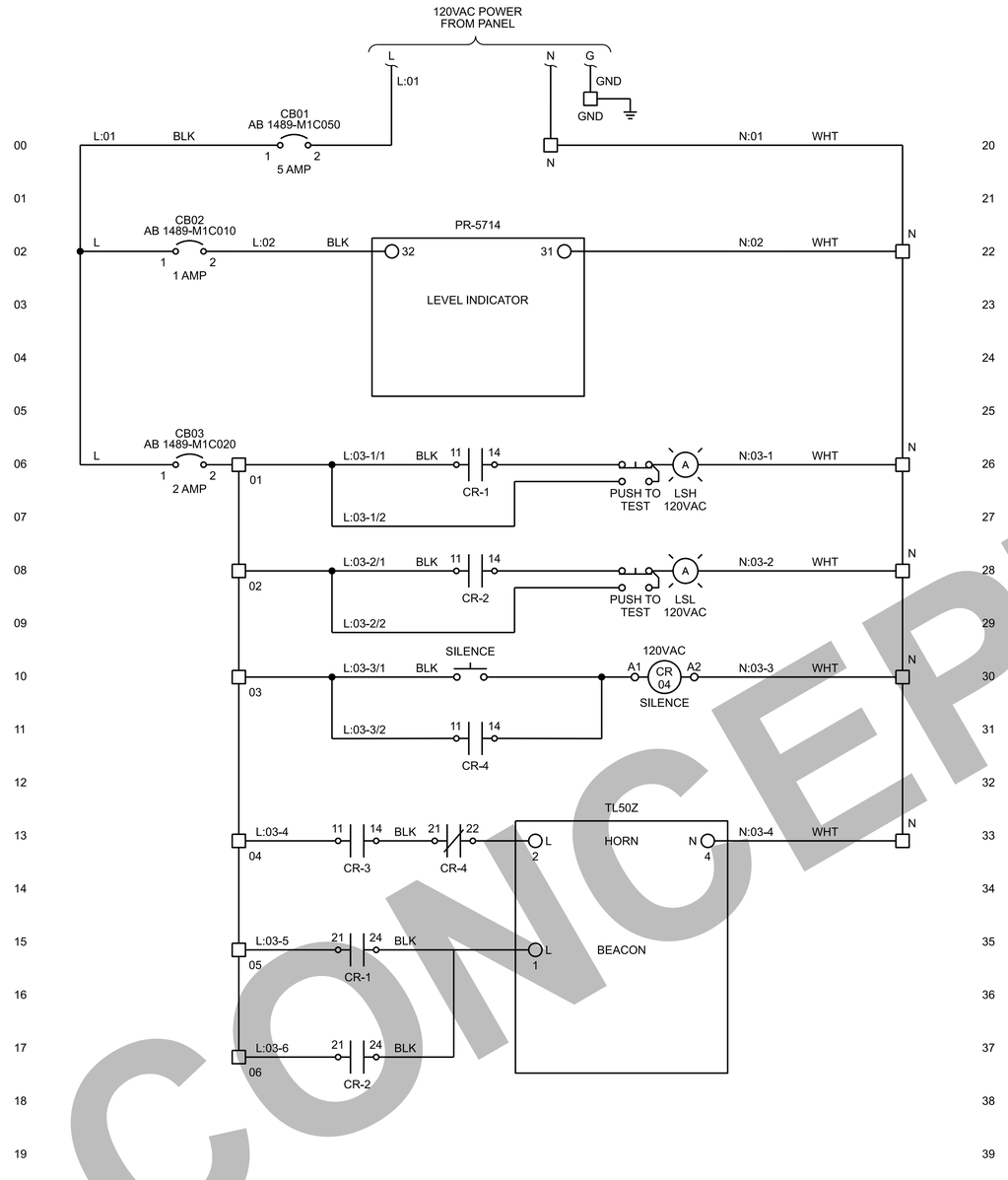

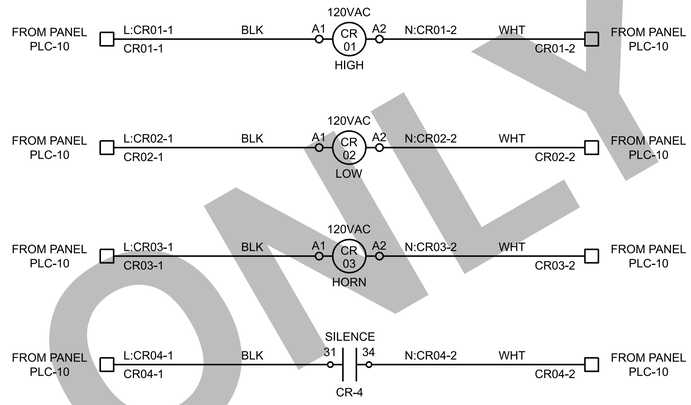

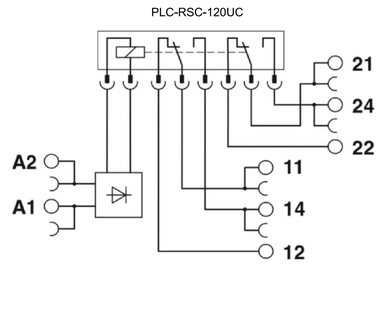

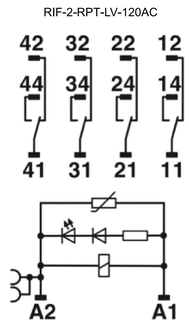

CONCEPT ONLY

NO.	DATE	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0037 48 OF 110

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EXP: 6-30-27

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - TRUCK UNLOADING PANEL - POWER DISTRIBUTION

LOCATION:

IN THE CITY OF GRESHAM

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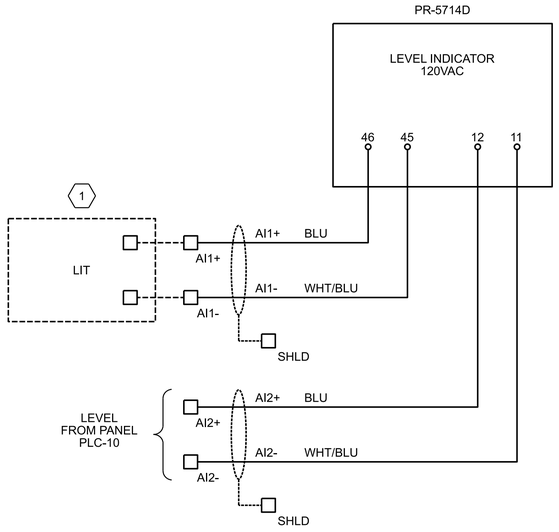
CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

Jacobs

PLOT TIME: 03:33
PLOT DATE: 27-FEB-2026
FILENAME: N-0037_D3838501.dwg



SHEET KEYNOTES

1. REFER TO LOOP DRAWINGS FOR LEVEL INSTRUMENT WIRING.

CONCEPT ONLY

Jacobs

FILENAME: N-0038_D3338501.dwg PLOT DATE: 27-FEB-2026 PLOT TIME: 03:36

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0038 49 OF 110

RECORD COPY PROFESSIONAL ENGINEER OREGON JEFFREY D KNOX Digital Signature

EXP: 6-30-27

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - TRUCK UNLOADING PANEL - POWER DISTRIBUTION, FIELD

LOCATION: IN THE CITY OF GRESHAM

CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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SHEET KEYNOTES

1. 'AAAA' INDICATES THE PANEL TAG NUMBER.

TRUCK UNLOADING PANEL			
NAMEPLATE SCHEDULE- LCP-7530, LCP-7540			
ITEM	LINE 1	LINE 2	LETTER SIZE
A	LCP-AAAA	POLYMER TRUCK UNLOADING PANEL	1/2"
B	TANK X HIGH LEVEL		1/4"
C	TANK X LOW LEVEL		1/4"
D	TANK Y HIGH LEVEL		1/4"
E	TANK Y LOW LEVEL		1/4"
F	HORN SILENCE		1/4"
G	LI-AAAA		1/4"
H	LI-AAAA		1/4"

(1) (1)

BILL OF MATERIAL

ITEM	QTY	DESCRIPTION	NOTES
1	4	INDICATOR LIGHT, PUSH TO TEST AMBER	SEE M31-E DATA SHEET
2	1	MOMENTARY PUSHBUTTON BLACK	SEE M27-E DATA SHEET
3	1	BEACON AND HORN	SEE M32-E DATA SHEET
4	2	PANEL MOUNT HOUSING, POLYCARBONATE, UV RATED COVER, 4X	
5	2	PROGRAMMABLE LED LEVEL INDICATOR	SEE S12-F DATA SHEET
6	5	RELAY MODULE - PLC-RSC-120UC/21-21, SCREW CONNECTION, 2 CHANGEOVER CONTACT, 120VAC INPUT VOLTAGE	
7	1	RELAY MODULE - RPT-2-LV-120AC/4x21, PUSH-IN CONNECTION, 4 CHANGEOVER CONTACT, 120VAC INPUT VOLTAGE	
8	1	CONTINUOUS PLUG -IN BRIDGE, LENGTH 500MM, GRAY FBST 500-PLC GY	
9	1	CIRCUIT BREAKER, MOLDED CASE, 1P, 5AMP, TRIP CURVE C	
10	1	CIRCUIT BREAKER, MOLDED CASE, 1P, 2AMP, TRIP CURVE C	
11	2	CIRCUIT BREAKER, MOLDED CASE, 1P, 1AMP, TRIP CURVE C	
12	46	TERMINAL BLOCK ZS6, FEED THROUGH, GREY	ZS6
13	2	TERMINAL BLOCK GROUNDING, GREEN/YELLOW	ZS4-PE
14	16	END SECTION COVER - TERMINAL	ES4
15	6	TERMINAL BLOCK - END STOP	BAM4
16	AS REQ'D	JUMPER BAR JB6 - 2 POLES	JB6-2
17	AS REQ'D	JUMPER BAR JB6 - 10 POLES	JB6-10
18	AS REQ'D	LABEL - TERMINAL	
19	AS REQ'D	LABEL - ADHESIVE	
20	AS REQ'D	DIN RAIL NS 35/15MM, PERFORATED GALVANIZED STEEL	
21	AS REQ'D	WIRING DUCT, NARROW SLOT, 1.5"W X 3" H, GREY	
22	AS REQ'D	WIRING DUCT COVER, 1.5W, GREY	
23	1	ENCLOSURE, 24"H X 20"W X 10"D, NEMA 4X SS, WALL-MOUNTED, PAINTED WHITE	
24	1	SUBAPANEL, 17"H X 17"W, POWDER COATED WHITE	
25	1	DRAIN, ENCLOSURE, 1/2" MALE THREAD	
26	1	BREATHER, ENCLOSURE, 1/2" MALE THREAD	

CONCEPT ONLY

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0041 50 OF 110

RECORD DRAWING PROFESSIONAL ENGINEER OREGON JULY 10, 2001 JEFFREY D. KNOX Digital Signature

EXP: 6-30-27

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SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - TRUCK UNLOADING PANEL LCP-7530, LCP-7540 - BOM AND NAMEPLATE SCHEDULE

LOCATION: IN THE CITY OF GRESHAM

CITY OF GRESHAM
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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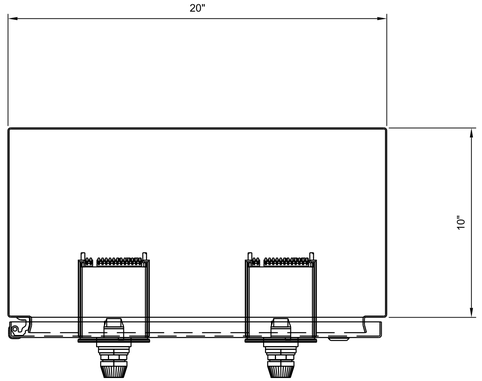

ENCLOSURE
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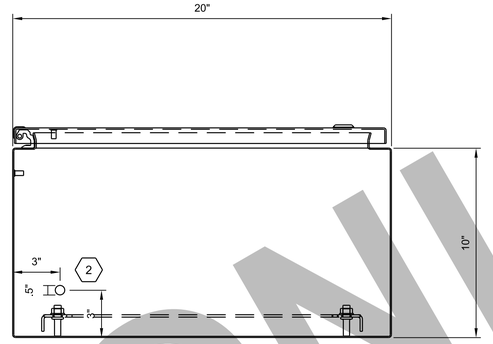
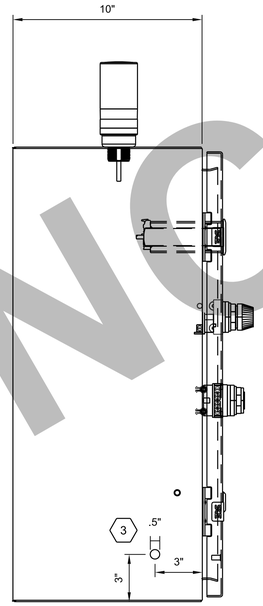


ENCLOSURE
BOTTOM VIEW
3"=1'-0"



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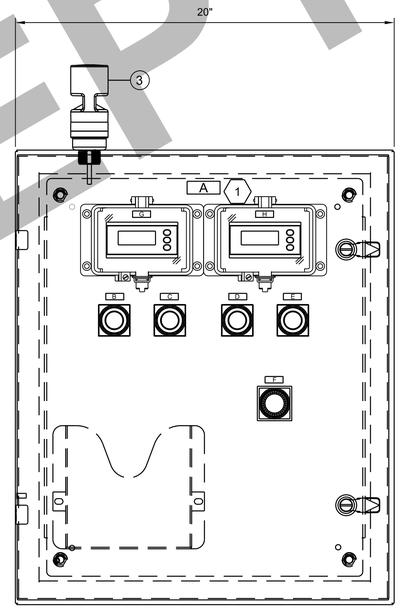
LEFT VIEW
3"=1'-0"



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FRONT VIEW
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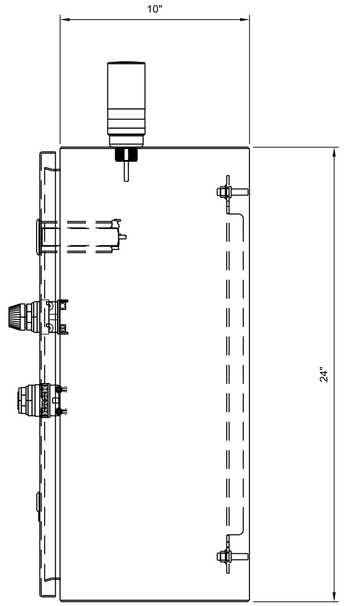

ENCLOSURE
RIGHT VIEW
3"=1'-0"

GENERAL SHEET NOTES

1. A INDICATES PANEL LABEL. REFER TO NAMEPLATE SCHEDULE FOR ADDITIONAL INFORMATION.

SHEET KEYNOTES

1. FOR CUTOUT DIMENSION SEE EQUIPMENT INSTALLATION MANUALS.
2. 1/2" HOLE BORE TO FIT DRAIN.
3. 1/2" HOLE BORE TO FIT BREATHER.

CONCEPT ONLY

FILENAME: N-0042_I2838501.dwg PLOT DATE: 27-FEB-2026 PLOT TIME: 03:35

Jacobs

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503-618-2525

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - TRUCK UNLOADING PANEL - LCP-7530, LCP-7540 ENCLOSURE ASSEMBLY

LOCATION: IN THE CITY OF GRESHAM

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SCALE	VERT: AS SHOWN
	HORIZ: AS SHOWN
DATE::	MARCH 2026
PROJECT NO.:	CIPWW00047
	LEGAL
SECTION	TOWNSHIP / RANGE

EXP: 6-30-27

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0042
51 OF 110

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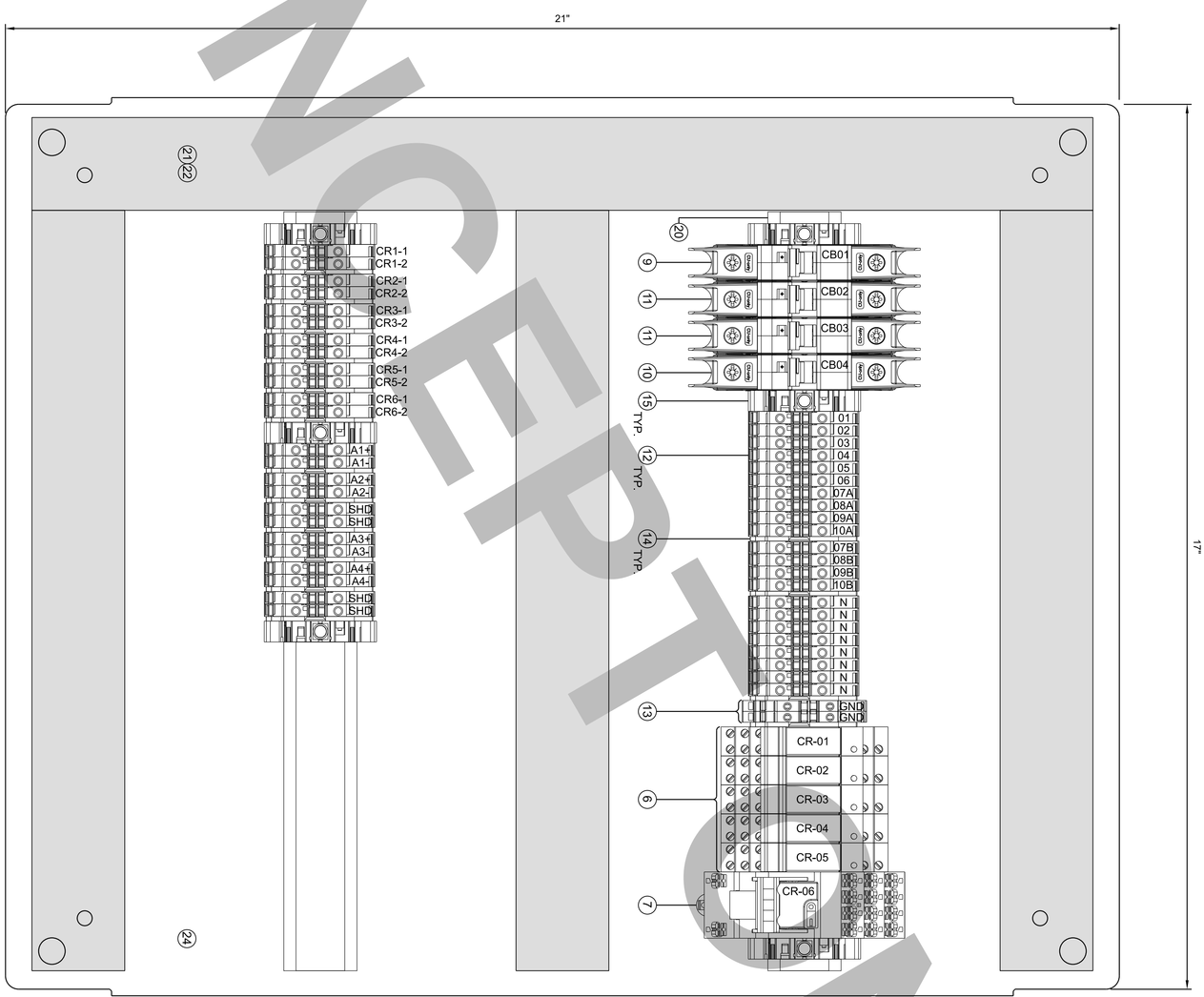
CONCEPTION ONLY

SUB PANEL
1"=1'-0"



Jacobs

CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - TRUCK UNLOADING PANEL LCP-7530, LCP-7540 - SUBPANEL ASSEMBLY

LOCATION:

IN THE CITY OF GRESHAM

SCALE	VERT: AS SHOWN
	HORIZ: AS SHOWN
DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047
LEGAL	

SECTION	TOWNSHIP	RANGE

REGISTERED PROFESSIONAL ENGINEER
18543PE
Digital Signature
OREGON
JULY 10, 1980
JEFFREY D KANTOR
EXP. 6-30-27

DATE	NO.	REVISION	BY

DESIGNED: CD	SHEET
DRAWN: JB	N-0043
CHECKED: JK	
APPROVED: HL	52 OF 110

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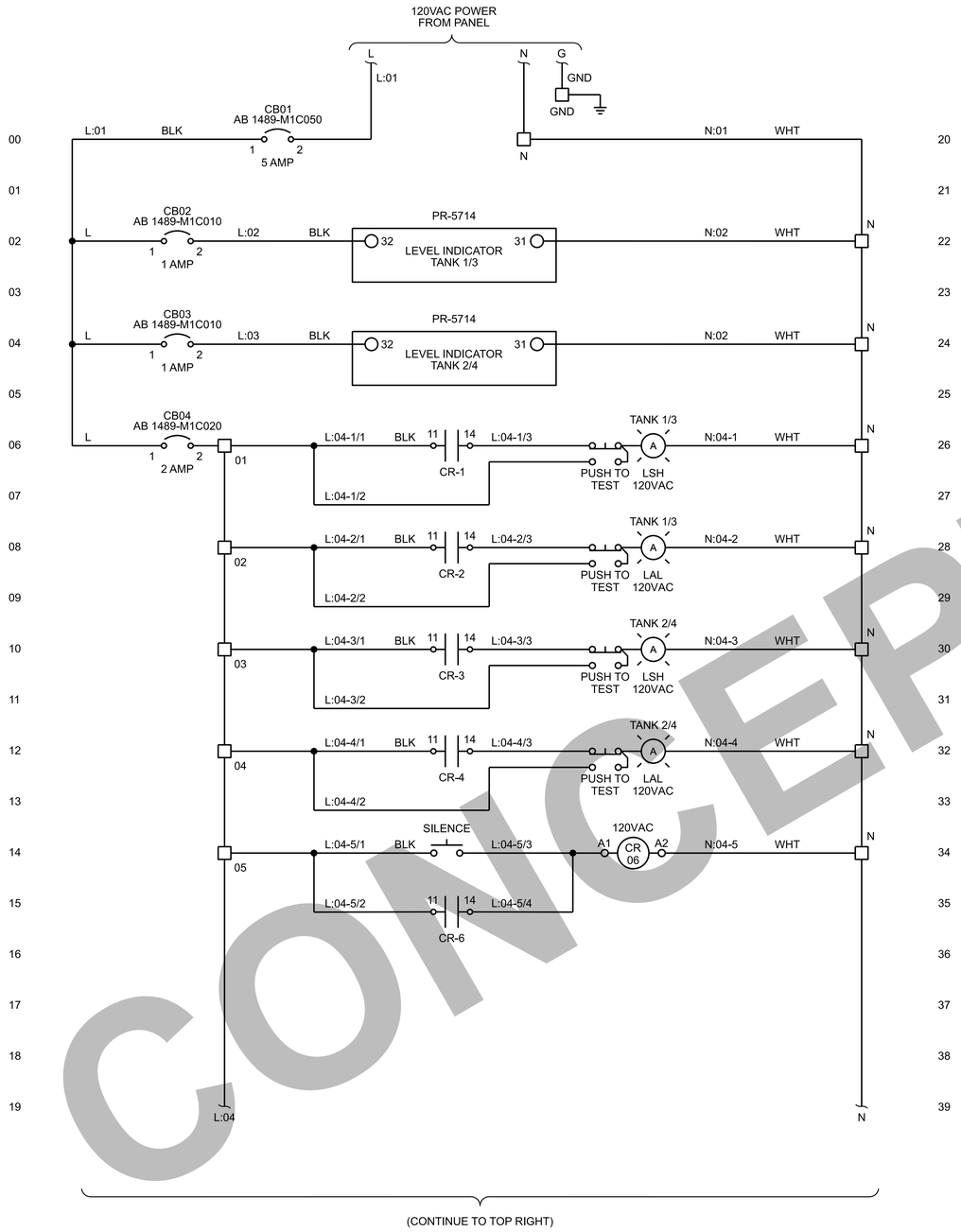

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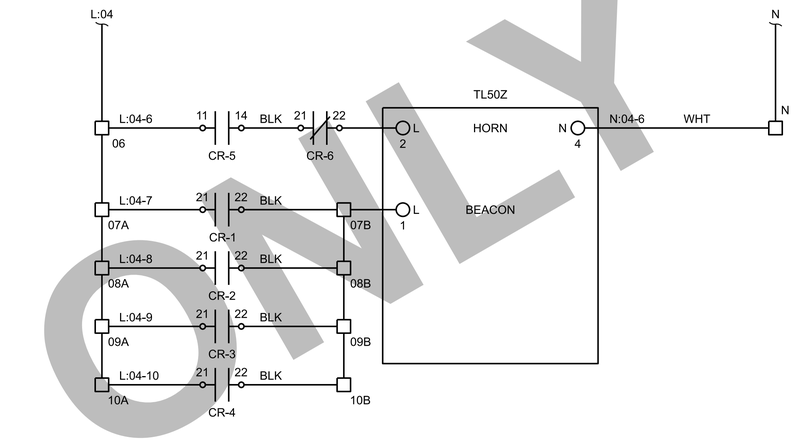

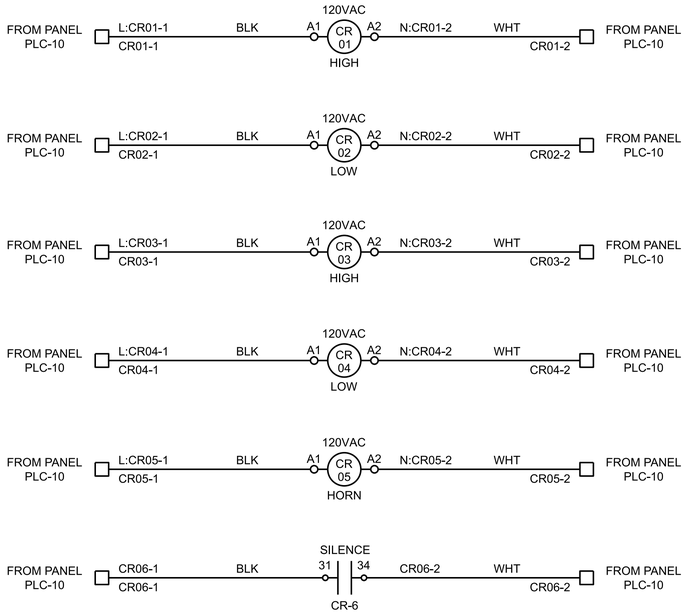

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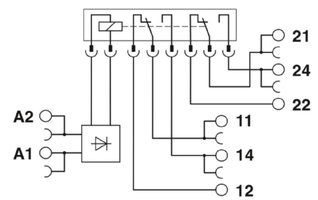

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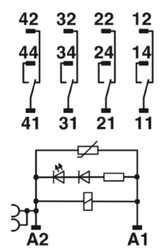

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NO.	DATE	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0044 53 OF 110

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REGISTERED PROFESSIONAL ENGINEER — OREGON — JULY 10, 1981 — JEFFREY D. KNOX — Digitally Signed — EXP: 6-30-27

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - TRUCK UNLOADING PANEL LCP-7530, LCP-7540 - POWER DISTRIBUTION

LOCATION: IN THE CITY OF GRESHAM

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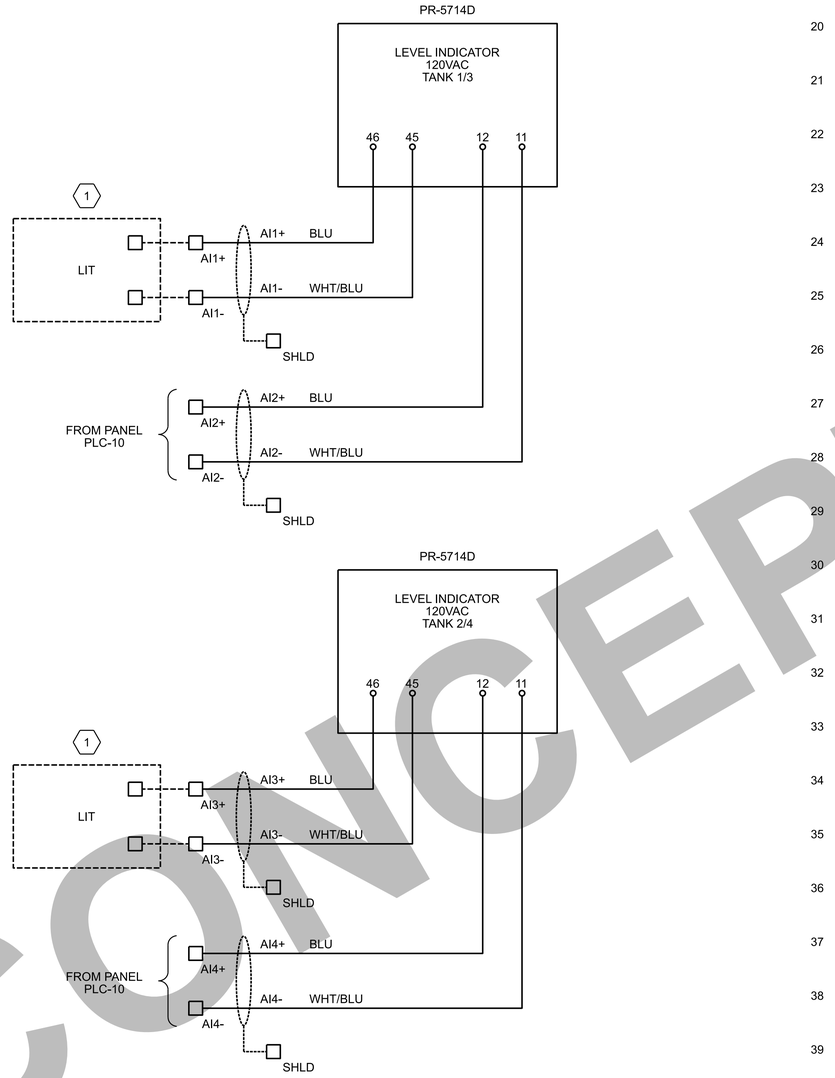
GRESHAM, OREGON 97030-3813
503-618-2525

Jacobs

PLOT TIME: 03:36
PLOT DATE: 27-FEB-2026
FILENAME: N-0044_0383850.dwg



SHEET KEYNOTES

1. REFER TO LOOP DRAWINGS FOR LEVEL INSTRUMENT WIRING.

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Jacobs

FILENAME: N-0045_I3838501.dwg PLOT DATE: 27-FEB-2026 PLOT TIME: 03:36

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DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
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503-618-2525

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: I&C - TRUCK UNLOADING PANEL LCP-7530, LCP-7540 - POWER DISTRIBUTION, FIELD

LOCATION: IN THE CITY OF GRESHAM

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SCALE	VERT: AS SHOWN
	HORIZ: AS SHOWN
DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047
	LEGAL
SECTION	TOWNSHIP / RANGE

RECORD DRAWING PROFESSIONAL ENGINEER — Digital Signature — JEFFREY D. KNOX — EXP: 6-30-27

DATE	NO.	REVISION	BY

DESIGNED: CD
DRAWN: JB
CHECKED: JK
APPROVED: HL

SHEET N-0045
54 OF 110

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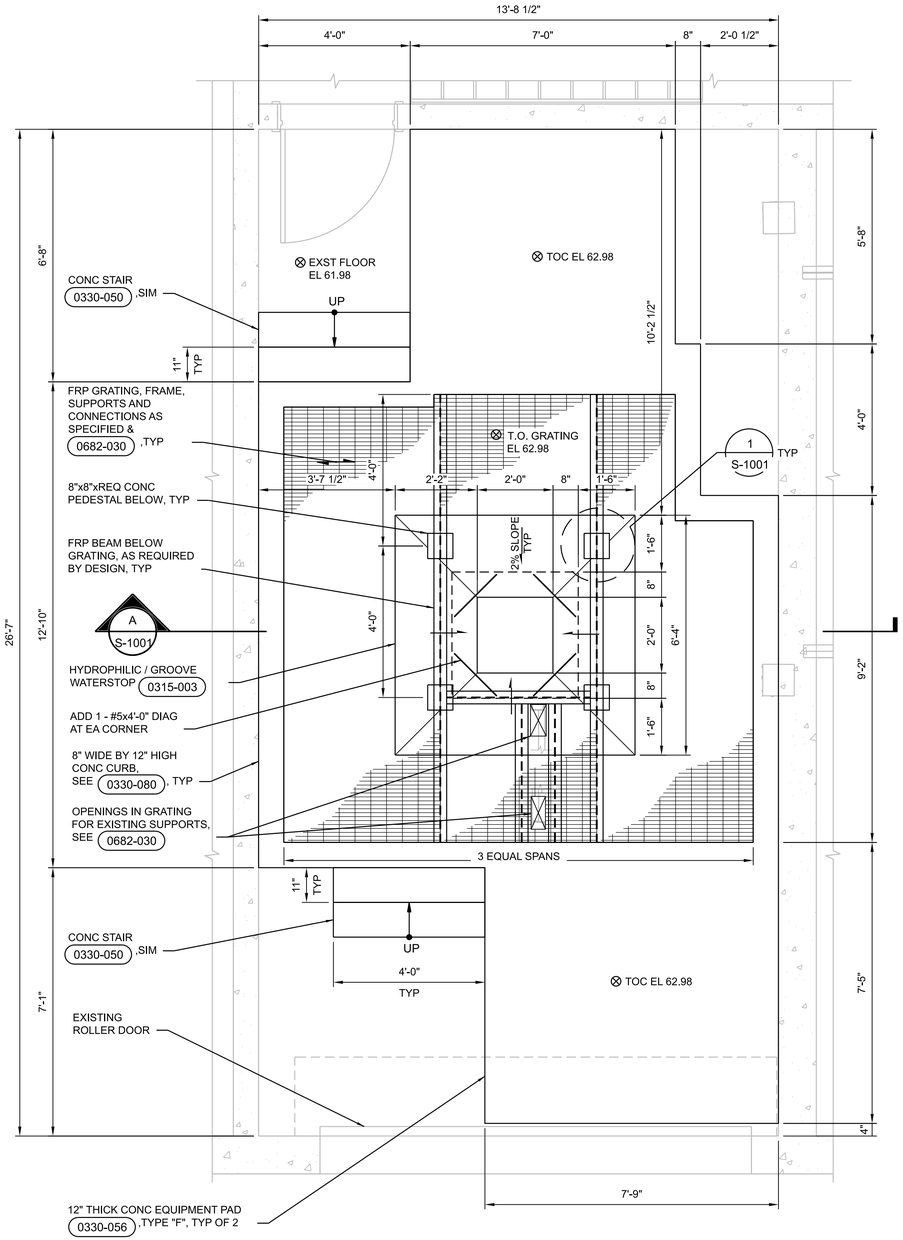
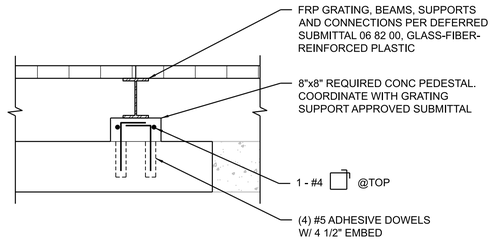


N

BASEMENT POLYMER ROOM PLAN
1/2"=1'-0"



1 S-1001

DETAIL
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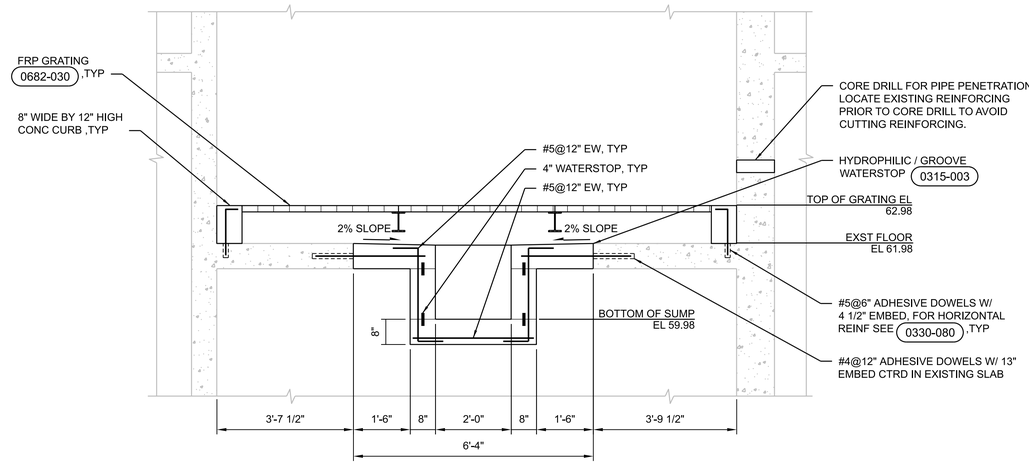

A S-1001

BASEMENT POLYMER ROOM SECTION
1/2"=1'-0"

GENERAL SHEET NOTES

1. INFORMATION (DETAILING, DIMENSIONS, CONFIGURATIONS, AND ELEVATIONS, ETC.) OF EXISTING CONSTRUCTION SHOWN REFLECTS AVAILABLE EXISTING DESIGN DOCUMENTS, AND DOES NOT NECESSARILY REPRESENT THE AS-CONSTRUCTED CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, ELEVATIONS AND DETAILING OF THE EXISTING STRUCTURES PRIOR TO UNDERTAKING ANY WORK THAT IS AFFECTED BY THE EXISTING STRUCTURE. NOTIFY ENGINEER IF CONDITIONS VARY FROM THAT SHOWN PRIOR TO STARTING WORK.
2. STRUCTURE SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONDITIONS ONLY. DESIGN SHOWN DOES NOT INCLUDE NECESSARY COMPONENTS OR EQUIPMENT FOR STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR WORK RELATING TO CONSTRUCTION ERECTION METHODS, BRACING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM THE WORK SHOWN.
3. NOTE THAT THE EXISTING FLOOR SLAB THICKNESS VARIES FROM 6" TO 5" AT THE FLOOR DRAINS.

DATE	NO.	REVISION	BY

DESIGNED: KM
DRAWN: KSB
CHECKED: RF
APPROVED: HL

SHEET S-1001
55 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 91107PE — Digital Signature — KRISTINA WEBB — EXP. 12-31-26

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SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: STRUCTURAL - BASEMENT POLYMER ROOM PLAN, SECTION AND DETAIL

LOCATION: IN THE CITY OF GRESHAM

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DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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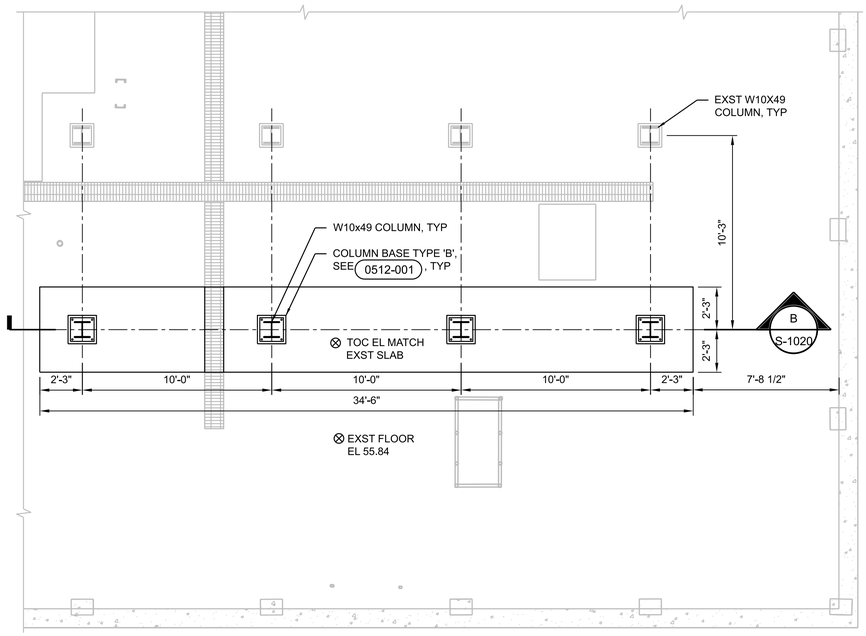
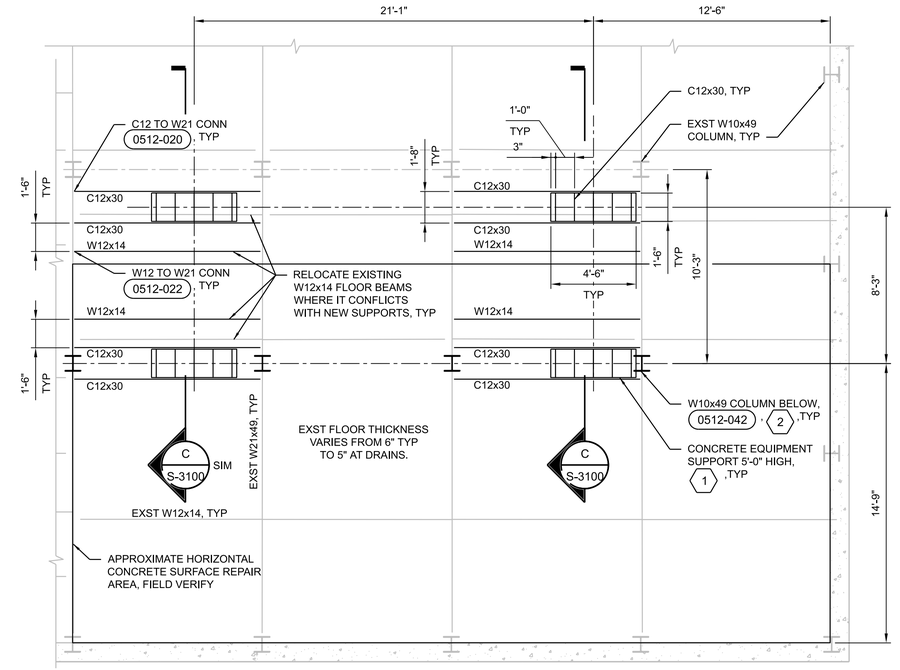


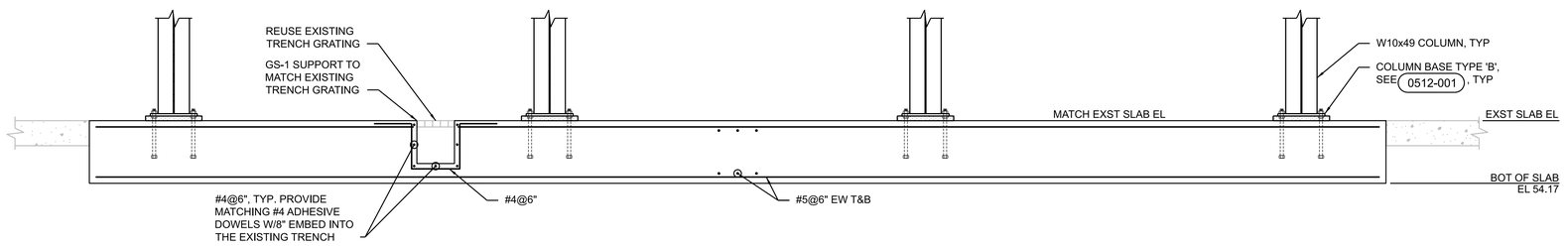
BASEMENT FLOOR PLAN

1/4"=1'-0"



GROUND FLOOR SUPPORT PLAN

1/4"=1'-0"



B SECTION

1/2" = 1'-0"

S-1020

GENERAL SHEET NOTES

1. INFORMATION (DETAILING, DIMENSIONS, CONFIGURATIONS, AND ELEVATIONS, ETC.) OF EXISTING CONSTRUCTION SHOWN REFLECTS AVAILABLE EXISTING DESIGN DOCUMENTS, AND DOES NOT NECESSARILY REPRESENT THE AS-CONSTRUCTED CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, ELEVATIONS AND DETAILING OF THE EXISTING STRUCTURES PRIOR TO UNDERTAKING ANY WORK THAT IS AFFECTED BY THE EXISTING STRUCTURE. NOTIFY ENGINEER IF CONDITIONS VARY FROM THAT SHOWN PRIOR TO STARTING WORK.
2. STRUCTURE SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONDITIONS ONLY. DESIGN SHOWN DOES NOT INCLUDE NECESSARY COMPONENTS OR EQUIPMENT FOR STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR WORK RELATING TO CONSTRUCTION ERECTION METHODS, BRACING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM THE WORK SHOWN.
3. NOTE THAT THE FLOOR SLAB THICKNESS VARIES FROM 6" TO 5" AT THE FLOOR DRAINS.
4. EPOXY ALL NEW AND DAMAGED CONCRETE FLOOR SURFACES PER SPECIFICATION 09 90 00, PAINTING AND COATING, SYSTEM NO. 19A.
5. JACK UP THE EXISTING BEAM PRIOR TO INSTALLING COLUMNS. JACKING FORCE EQUAL TO 12 KIP AT THE JACKING LOCATION.
6. REPAIR ALL DAMAGED HORIZONTAL CONCRETE SURFACES PER SPECIFICATION SECTION 03 01 33. REPAIR OF HORIZONTAL CONCRETE SURFACES. FIELD VERIFY CONCRETE SURFACE REPAIR EXTENT AND SLOPE AT FLOOR DRAINS TO MATCH EXISTING CONCRETE SLAB SLOPE.
7. REPAIR EXISTING STEEL COATINGS AFTER INSTALLATION AND COAT NEW STEEL MEMBERS TO MATCH EXISTING BEAMS, PER SPECIFICATION SECTION 09 90 00, PAINTING AND COATING, SYSTEM NO. 5.
8. CONCRETE EQUIPMENT PADS ON 'BASEMENT FLOOR PLAN' NOT SHOWN. SEE DRAWING D-1023 FOR CONCRETE EQUIPMENT PAD INFORMATION.

SHEET KEYNOTES

1. CONTRACTOR SHALL COORDINATE CONCRETE EQUIPMENT SUPPORT LOCATION AND SIZE WITH CENTRIFUGE SUPPLIER AND ENGINEER.
2. LOCATION OF FLOOR SUPPORT BEAM TO BE COORDINATED WITH LOCATION OF CONCRETE EQUIPMENT SUPPORT LOCATION. ALIGN CENTERLINE OF BEAM BENEATH FLOOR WITH CENTERLINE OF CONCRETE EQUIPMENT SUPPORT.

DATE	NO.	REVISION	BY

DESIGNED: KM
DRAWN: KSB
CHECKED: RF
APPROVED: HL

SHEET S-1020 56 OF 110

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 15, 2005
KRISTINA M. BUTLER
91107PE
Digital Signature
EXP. 12-31-26

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SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: STRUCTURAL - GROUND FLOOR SUPPORT PLAN, BASEMENT FLOOR PLAN AND SECTION
LOCATION: IN THE CITY OF GRESHAM

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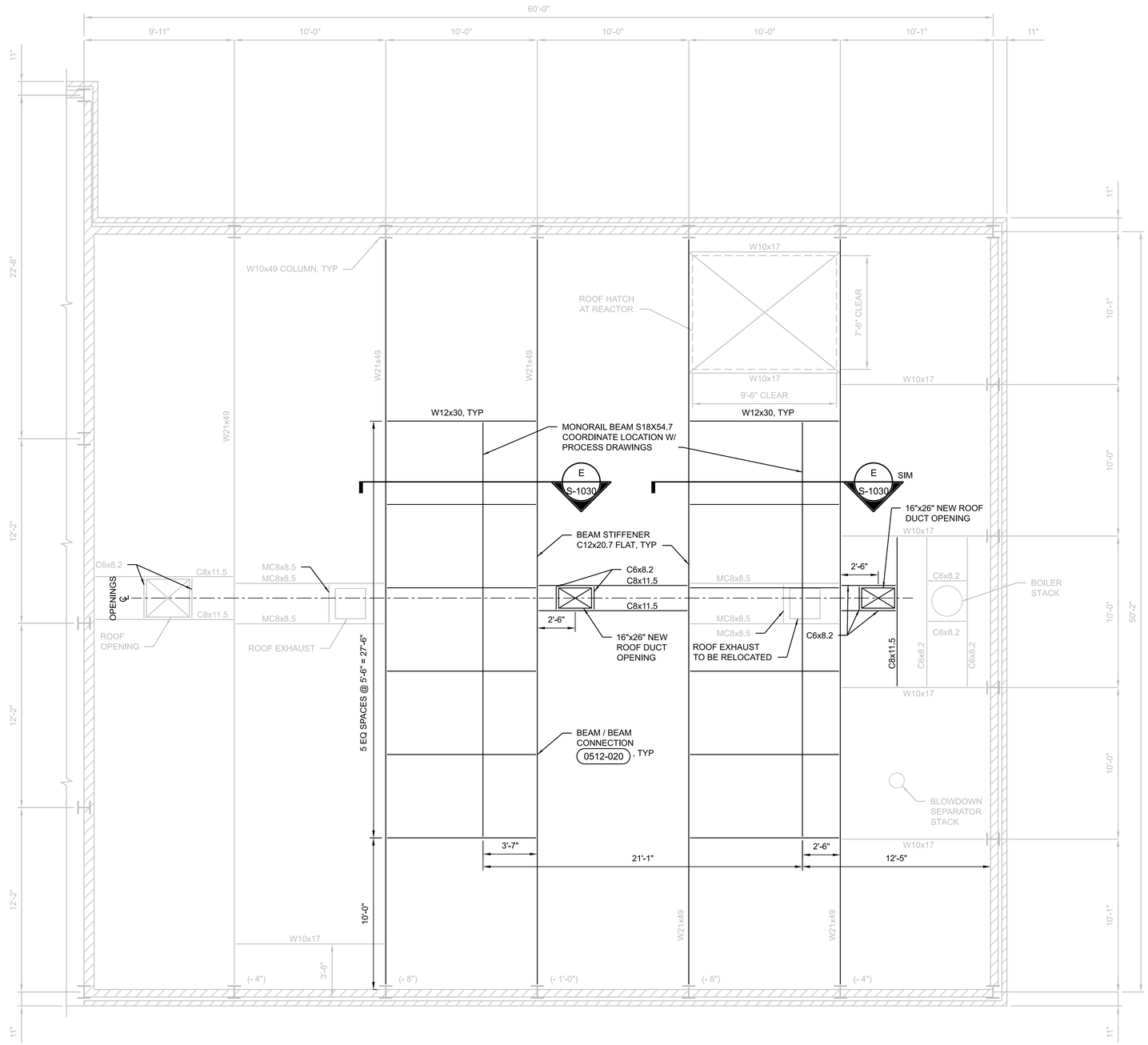
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

CITY OF GRESHAM

Jacobs



N

ROOF / CEILING SUPPORT PLAN

1/4"=1'-0"

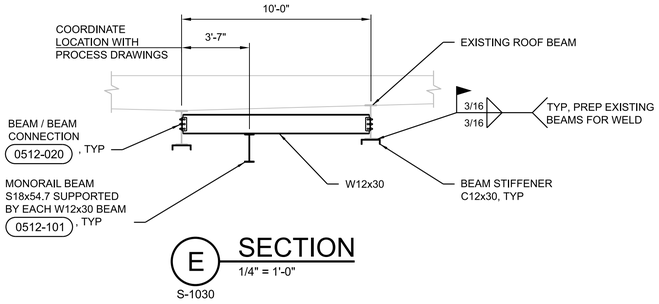
GENERAL SHEET NOTES

1. EXISTING ROOF DECKING, NOT SHOWN: "INLAND RYERSON" TYPE 1 5/8 NF 18x18 GA, WELDING: TRANSVERSE SUPPORTS 3 1/2"ø PLUG WELDS (1ST, 3RD & 5TH FLUTES) W10x17 PERIMETER SUPPORTS - 1/2"ø PLUG WELDS @3'-0" OC SIDE LAP CONNECTION - 1 1/2" SEAM WELD @ 2'-0" OC.

2. INFORMATION (DETAILING, DIMENSIONS, CONFIGURATIONS, AND ELEVATIONS, ETC.) OF EXISTING CONSTRUCTION SHOWN REFLECTS AVAILABLE EXISTING DESIGN DOCUMENTS, AND DOES NOT NECESSARILY REPRESENT THE AS-CONSTRUCTED CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, ELEVATIONS AND DETAILING OF THE EXISTING STRUCTURES PRIOR TO UNDERTAKING ANY WORK THAT IS AFFECTED BY THE EXISTING STRUCTURE. NOTIFY ENGINEER IF CONDITIONS VARY FROM THAT SHOWN PRIOR TO STARTING WORK.

3. STRUCTURE SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONDITIONS ONLY. DESIGN SHOWN DOES NOT INCLUDE NECESSARY COMPONENTS OR EQUIPMENT FOR STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR WORK RELATING TO CONSTRUCTION ERECTION METHODS, BRACING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM THE WORK SHOWN.

4. REPAIR EXISTING STEEL COATINGS AFTER INSTALLATION AND COAT NEW STEEL MEMBERS TO MATCH EXISTING BEAMS, PER SPECIFICATION SECTION 09 90 00, PAINTING AND COATING, SYSTEM NO. 5.



E S-1030 SECTION

1/4" = 1'-0"

DATE	NO.	REVISION	BY

DESIGNED: KM
DRAWN: KSB
CHECKED: RF
APPROVED: HL

SHEET S-1030 57 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 91107PE — Digital Signature — KRISTINA LAU — 2026.01.30 — EXP. 12-31-26

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: STRUCTURAL - ROOF / CEILING SUPPORT PLAN AND SECTION

LOCATION: IN THE CITY OF GRESHAM

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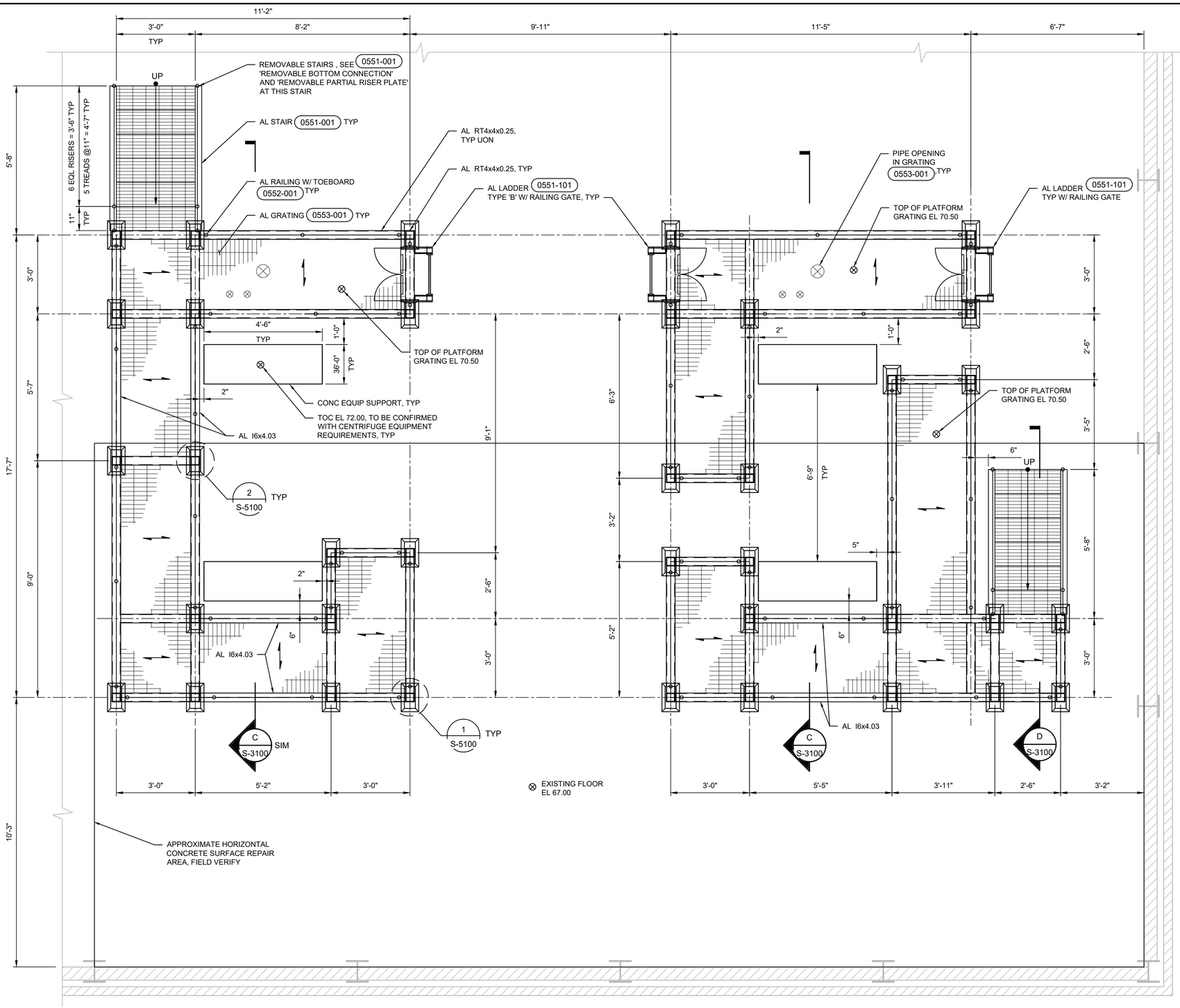
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

Jacobs



CENTRIFUGE ACCESS PLATFORM DESIGN ENLARGED PLAN

1/2"=1'-0"

GENERAL SHEET NOTES

1. INFORMATION (DETAILING, DIMENSIONS, CONFIGURATIONS, AND ELEVATIONS, ETC.) OF EXISTING CONSTRUCTION SHOWN REFLECTS AVAILABLE EXISTING DESIGN DOCUMENTS, AND DOES NOT NECESSARILY REPRESENT THE AS-CONSTRUCTED CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, ELEVATIONS AND DETAILING OF THE EXISTING STRUCTURES PRIOR TO UNDERTAKING ANY WORK THAT IS AFFECTED BY THE EXISTING STRUCTURE. NOTIFY ENGINEER IF CONDITIONS VARY FROM THAT SHOWN PRIOR TO STARTING WORK.
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3. NOTE THAT THE FLOOR SLAB THICKNESS VARIES FROM 6" TO 5" AT THE FLOOR DRAINS.
4. EPOXY ALL NEW AND DAMAGED CONCRETE FLOOR SURFACES PER SPECIFICATION 09 90 00, PAINTING AND COATING, SYSTEM NO. 19A.
5. CONTRACTOR SHALL COORDINATE CONCRETE EQUIPMENT SUPPORT LOCATION AND SIZE WITH CENTRIFUGE SUPPLIER'S APPROVED EQUIPMENT, ANCHORAGE AND BRACING SUBMITTAL AND ENGINEER.
6. COORDINATE PLATFORM LAYOUT WITH FINAL CENTRIFUGE LAYOUT.
7. REPAIR ALL DAMAGED HORIZONTAL CONCRETE SURFACES PER SPECIFICATION SECTION 03 01 33, REPAIR OF HORIZONTAL CONCRETE SURFACES. FIELD VERIFY CONCRETE SURFACE REPAIR EXTEND AND SLOPE AT FLOOR DRAINS TO MATCH EXISTING CONCRETE SLOPE.

DATE	NO.	REVISION	BY

DESIGNED: KM
DRAWN: KSB
CHECKED: RF
APPROVED: HL

SHEET S-1100
58 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 91107PE — Digital Signature — KRISTINA WEBB — 25141 — EXP. 12-31-26

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL: SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: STRUCTURAL - CENTRIFUGE ALUMINUM ACCESS PLATFORM DESIGN ENLARGED PLAN
LOCATION: IN THE CITY OF GRESHAM

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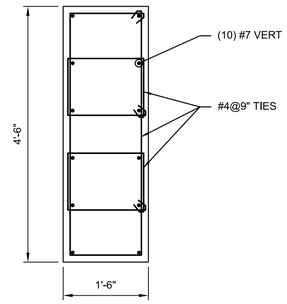
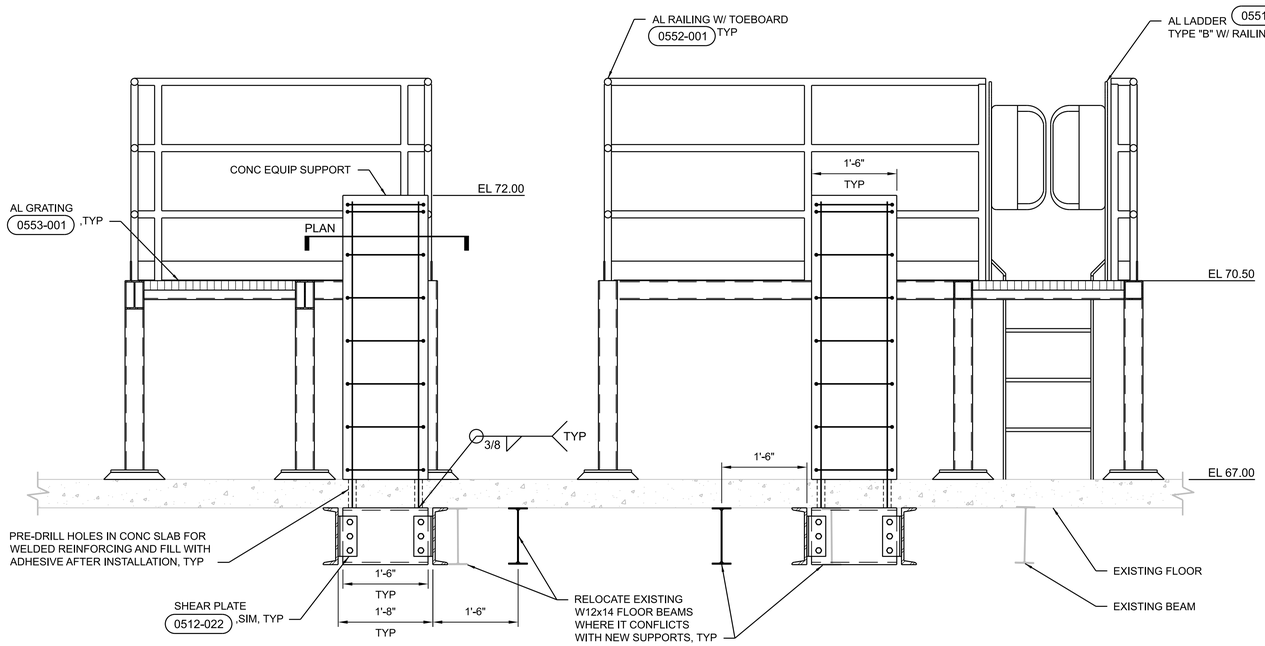
CITY OF GRESHAM
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

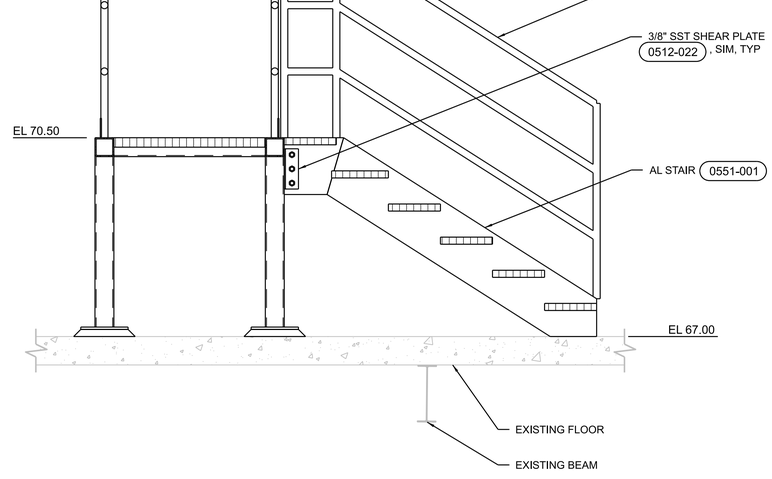
Jacobs



PLAN
3/4"=1'-0"



C SECTION
3/4"=1'-0"
S-1020
S-1100



D SECTION
3/4"=1'-0"
S-1100

GENERAL SHEET NOTES

1. INFORMATION (DETAILING, DIMENSIONS, CONFIGURATIONS, AND ELEVATIONS, ETC.) OF EXISTING CONSTRUCTION SHOWN REFLECTS AVAILABLE EXISTING DESIGN DOCUMENTS, AND DOES NOT NECESSARILY REPRESENT THE AS-CONSTRUCTED CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, ELEVATIONS AND DETAILING OF THE EXISTING STRUCTURES PRIOR TO UNDERTAKING ANY WORK THAT IS AFFECTED BY THE EXISTING STRUCTURE. NOTIFY ENGINEER IF CONDITIONS VARY FROM THAT SHOWN PRIOR TO STARTING WORK.
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3. NOTE THAT THE FLOOR SLAB THICKNESS VARIES FROM 6" TO 5" AT THE FLOOR DRAINS.

DATE	NO.	REVISION	BY

DESIGNED: KM
DRAWN: KSB
CHECKED: RF
APPROVED: HL

SHEET S-3100
59 OF 110

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 31, 2009
KRISTINA M. BUTLER
Digital Signature
EXP.: 12-31-26

SCALE VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: STRUCTURAL - CENTRIFUGE ALUMINUM ACCESS PLATFORM DESIGN SECTIONS

LOCATION: IN THE CITY OF GRESHAM

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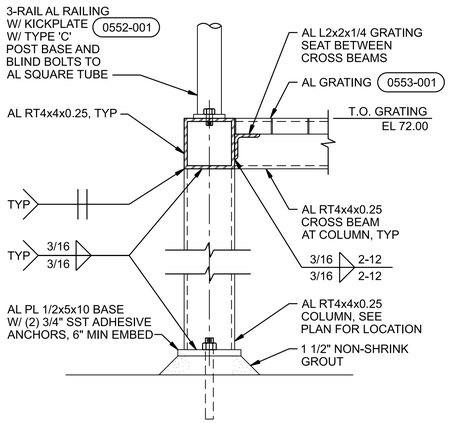
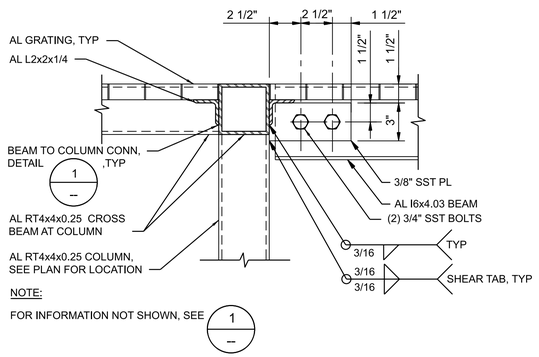
CITY OF GRESHAM
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

Jacobs



1 DETAIL
2"=1'-0"
S-1100



2 DETAIL
2"=1'-0"
S-1100

Jacobs

DATE	NO.	REVISION	BY

REGISTERED PROFESSIONAL ENGINEER — OREGON — 91107PE — Digital Signature — KRISTINA MAY — JULY 31, 2015 — EXP.: 12-31-26

DESIGNED: KM	SHEET		
DRAWN: KSB	S-5100		
CHECKED: RF	60 OF 110		
APPROVED: HL			

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SCALE	VERT: AS SHOWN		
	HORIZ: AS SHOWN		
DATE:: MARCH 2026			
PROJECT NO.: CIPWW00047			
LEGAL			
SECTION	TOWNSHIP	RANGE	

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: STRUCTURAL - CENTRIFUGE ALUMINUM ACCESS PLATFORM DESIGN DETAILS

LOCATION: IN THE CITY OF GRESHAM

CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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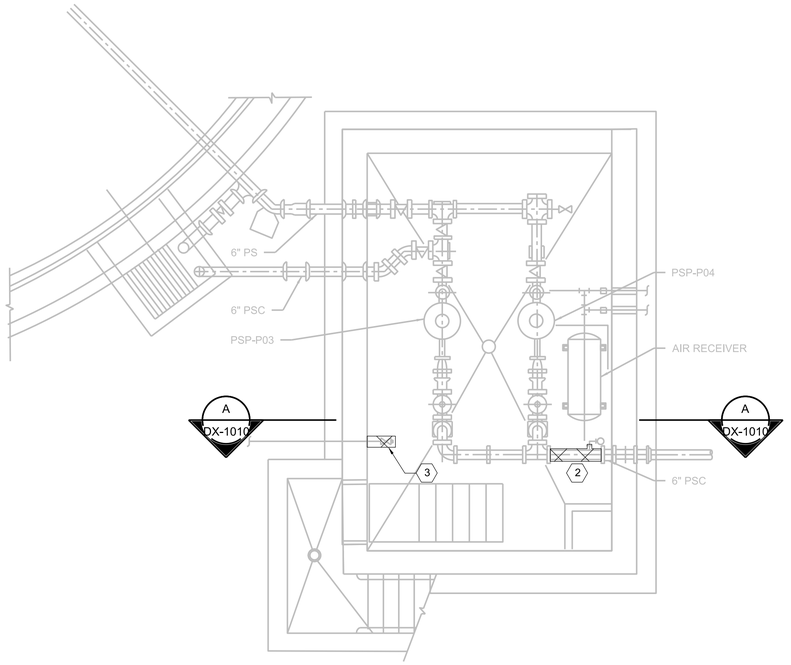
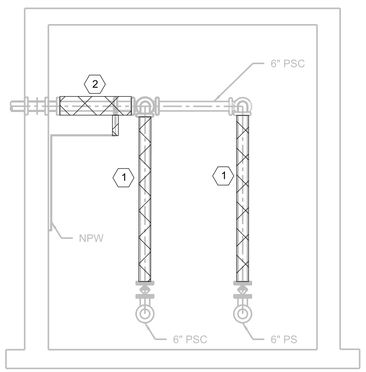


N

PUMPING STATION NO.1 SECTIONAL PLAN EL. 57.00

1/4"=1'-0"



A

SECTION

1/4" = 1-0"

DX-1010

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.

SHEET KEYNOTES

1 DEMOLISH 6" PS AND PSC PIPING.

2 SALVAGE 6" PSC PIPING FOR RE-USE.

3 SALVAGE HOSE CADDY FOR RE-USE. DEMOLISH NPW BRANCH BACK TO TAKE-OFF.

DATE	NO.	REVISION	BY

DESIGNED: DF
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET DX-1010
61 OF 110

REGISTERED PROFESSIONAL ENGINEER — Digitally Signed — DAVID LEONARD HUNTER — 91799PE — OREGON — EXP. 12/31/27

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SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - DEMOLITION PRIMARY CLARIFIER PUMP STATION 1

LOCATION: IN THE CITY OF GRESHAM

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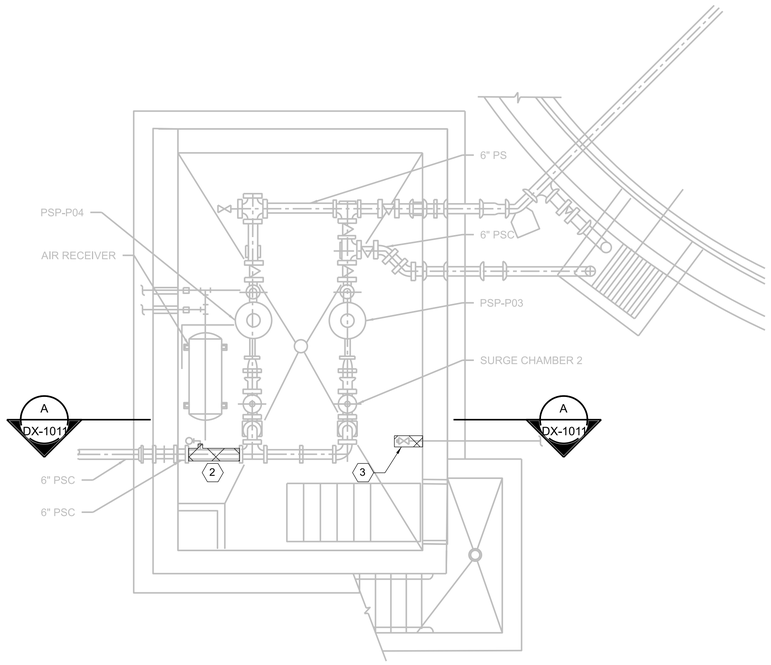
CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

Jacobs

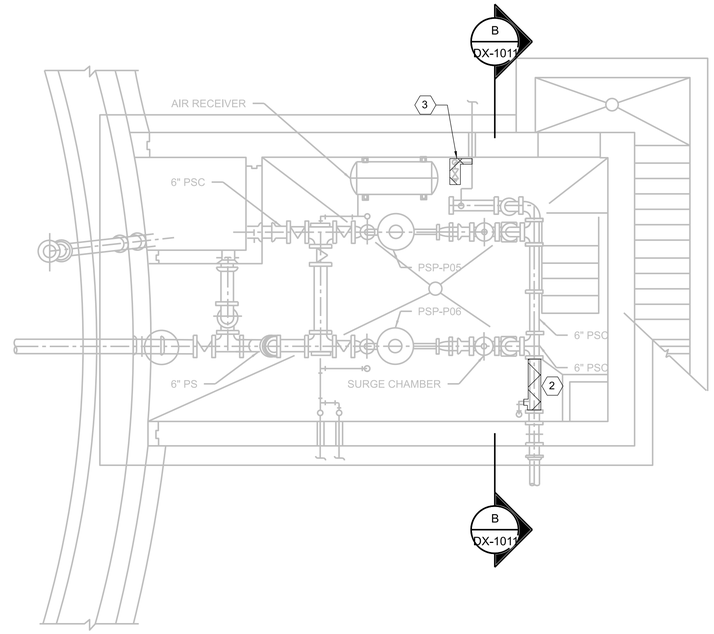
FILENAME: DX-1010_D3838501.dwg PLOT DATE: 26-FEB-2026 PLOT TIME: 04:04



N

PUMPING STATION NO.2 SECTIONAL PLAN EL. 57.00

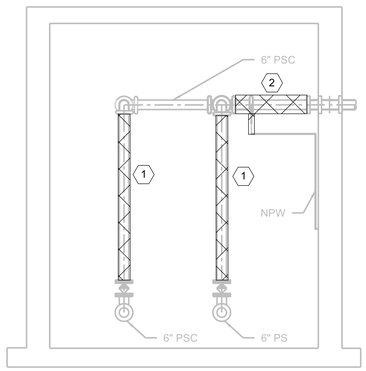
1/4"=1'-0"



N

PUMPING STATION NO.3 SECTIONAL PLAN EL. 57.00

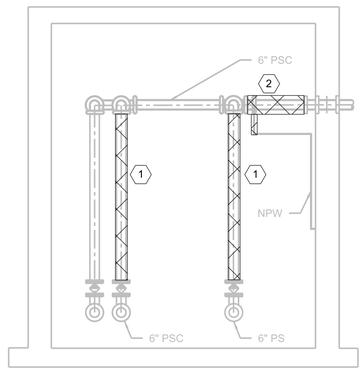
1/4"=1'-0"



A SECTION

1/4" = 1-0"

DX-1011



B SECTION

1/4" = 1-0"

DX-1011

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.

SHEET KEYNOTES

1 DEMOLISH 6" PS AND PSC PIPING.

2 SALVAGE 6" PSC PIPING FOR RE-USE.

3 SALVAGE HOSE CADDY FOR RE-USE. DEMOLISH NPW BRANCH BACK TO TAKE-OFF.

NO.	DATE	REVISION	BY

DESIGNED: DF
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET DX-1011
62 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 91709PE — DAVID LEONARD — Digitally Signed — EXP. 12/31/27

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SCALE VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - DEMOLITION PRIMARY CLARIFIER PUMP STATION 2 & 3

LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM

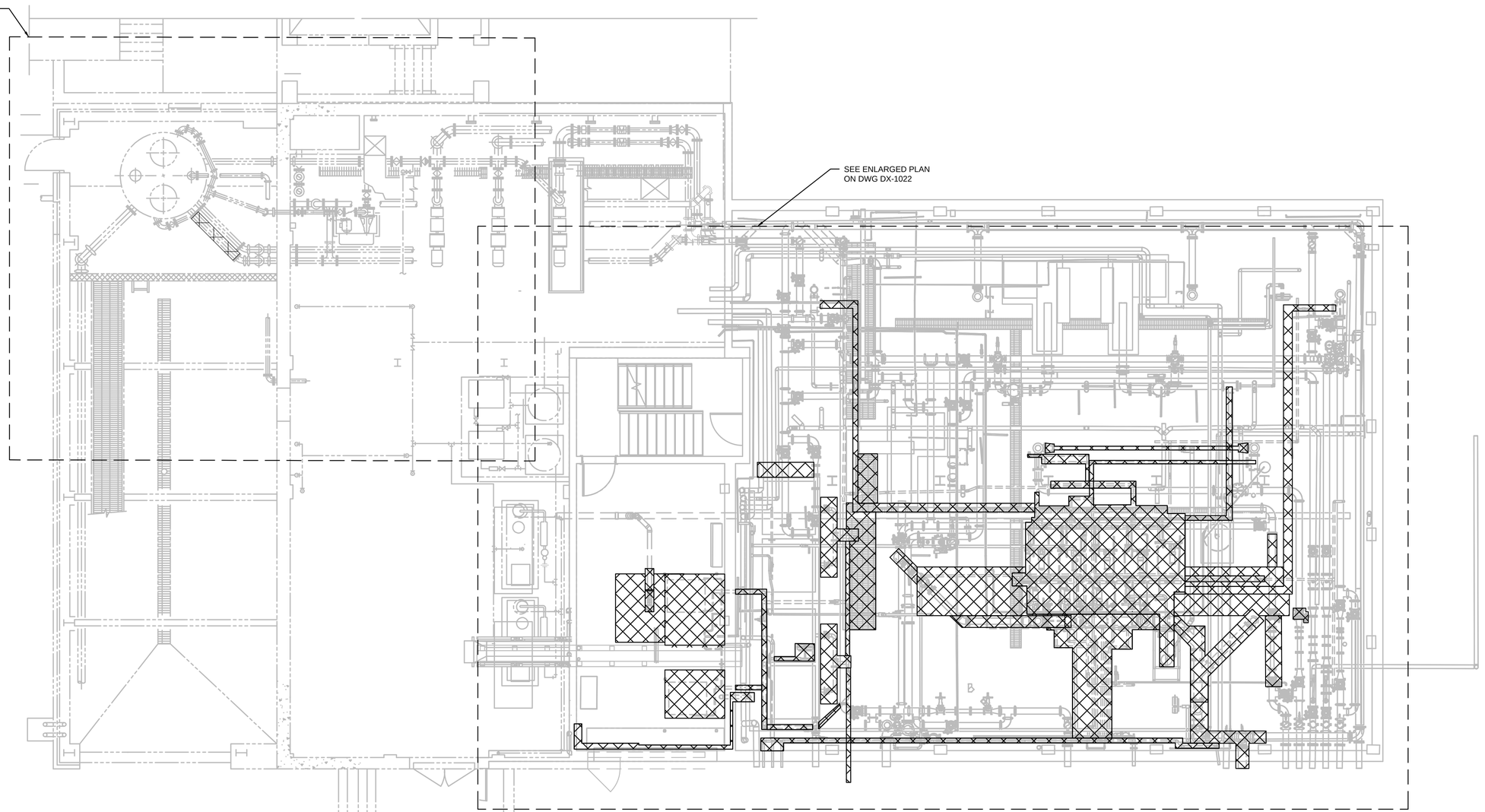
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

Jacobs

FILENAME: DX-1011_I3838501.dwg PLOT DATE: 26-FEB-2026 PLOT TIME: 04:04

SEE ENLARGED PLAN
ON DWG DX-1021

SEE ENLARGED PLAN
ON DWG DX-1022



N

DEMOLITION - BASEMENT PLAN AND POLYMER ROOM PLAN

3/16"=1'-0"

Jacobs

FILENAME: DX-1020_D3838501.dwg PLOT DATE: $PLOTDATE PLOT TIME: $PLOTTIME

CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - DEMOLITION BASEMENT OVERALL PLAN

LOCATION: IN THE CITY OF GRESHAM

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SCALE	VERT:	AS SHOWN
	HORIZ:	AS SHOWN
DATE:	MARCH 2026	
PROJECT NO.:	CIPWW00047	
	LEGAL	
SECTION	TOWNSHIP	RANGE

REGISTERED PROFESSIONAL ENGINEER — OREGON — ALAN C. DEVITO — EXP: 12-31-27 — Digitally Signed

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET DX-1020
63 OF 110

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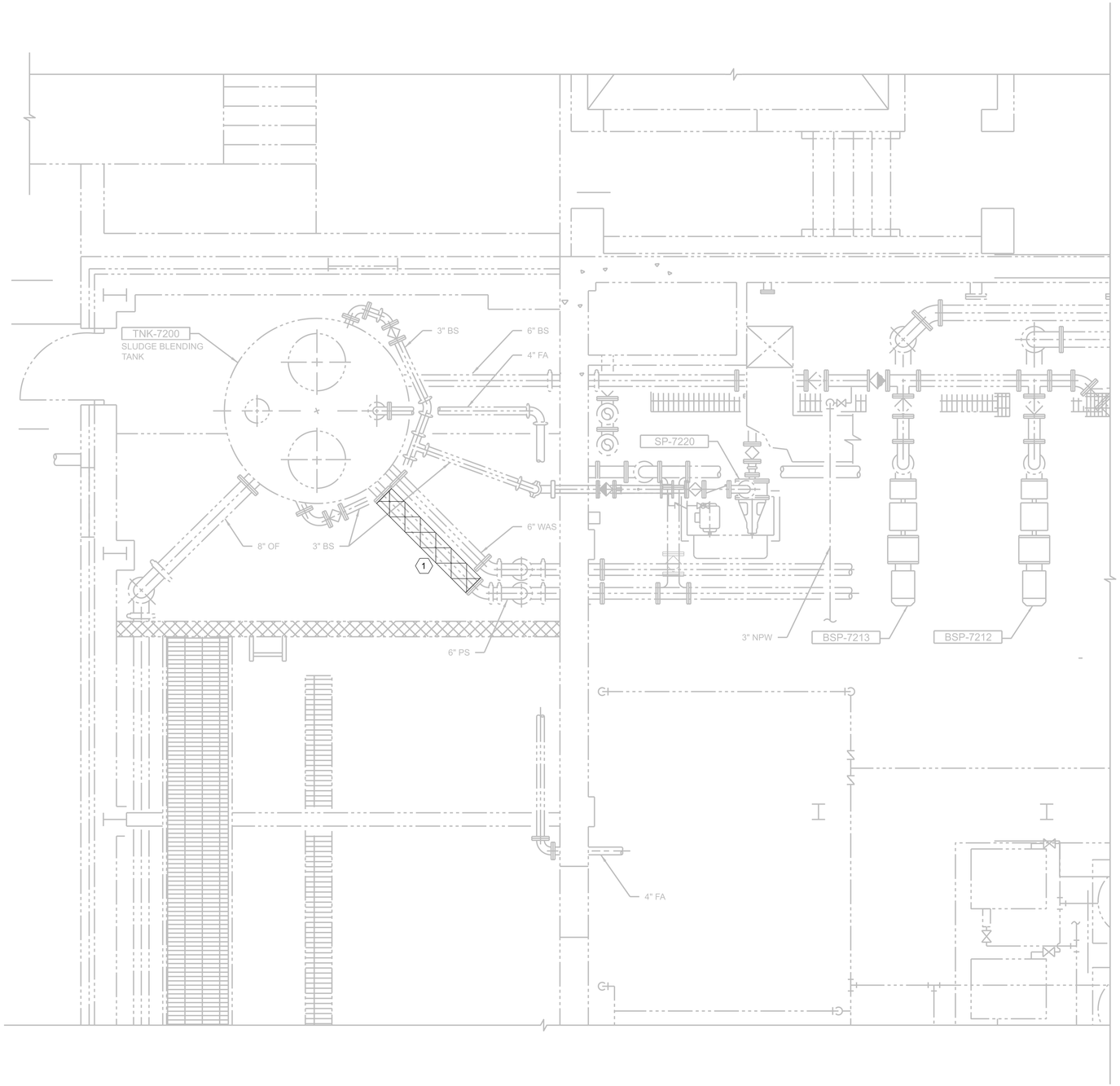

SHEET KEYNOTES

1. DEMOLISH 6" PS.

N

DEMOLITION - BASEMENT FLOOR

3/8"=1'-0"

Jacobs

FILENAME: DX-1021_D3838501.dwg PLOT DATE: 26-FEB-2026 PLOT TIME: 04:05

DATE	NO.	REVISION	BY

REGISTERED PROFESSIONAL ENGINEER — 91709PE — OREGON — Digitally Signed — DAVID LEONARD TURNBEE — EXP. 12/31/27

DESIGNED: DF
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET DX-1021

64 OF 110

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SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - DEMOLITION BASEMENT SLUDGE TANK ENLARGED PLAN

LOCATION: IN THE CITY OF GRESHAM

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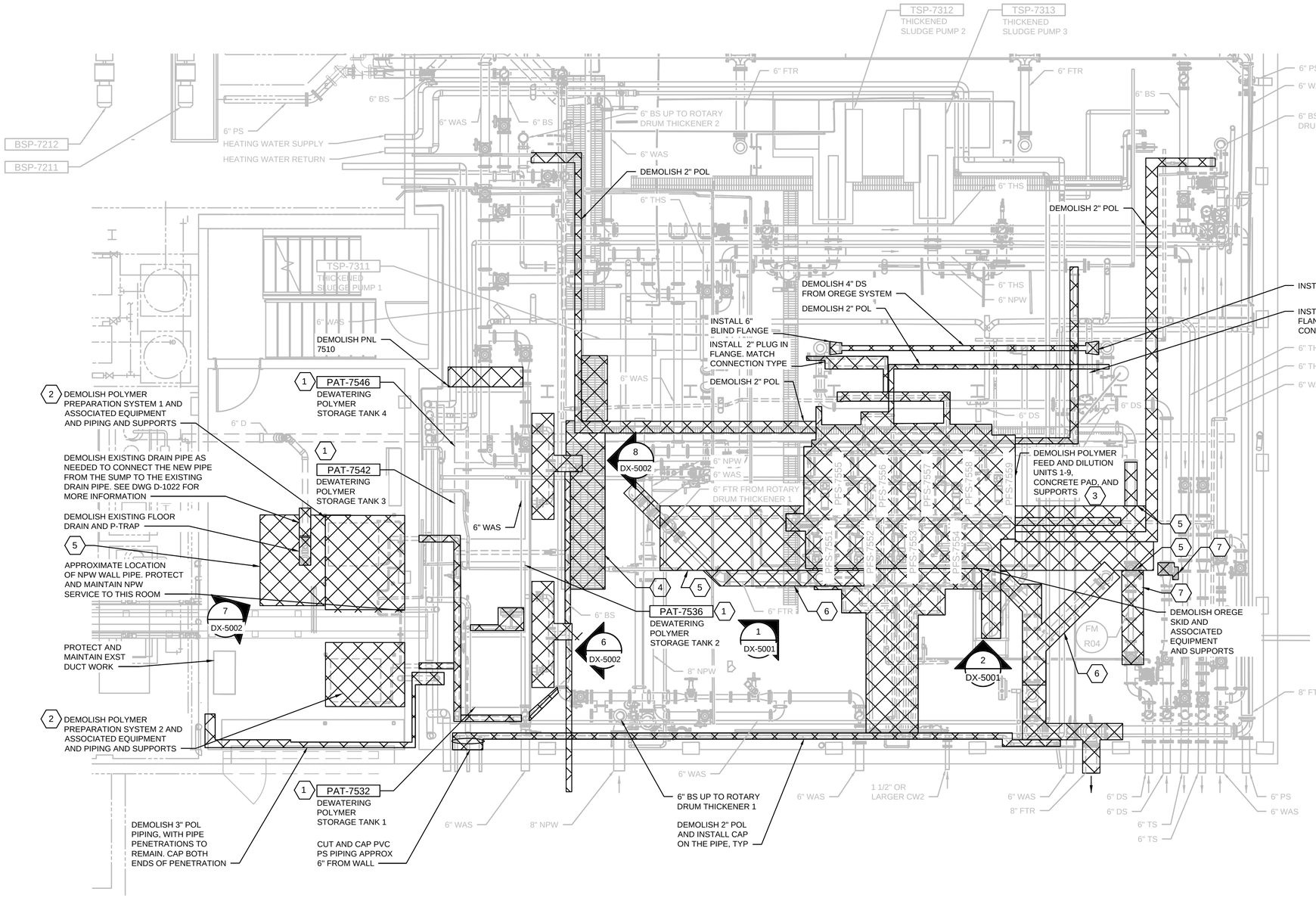
CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525



GENERAL SHEET NOTES

1. CONTRACTOR TO REMOVAL ALL POLYMER PIPING ASSOCIATED WITH THE EXISTING POLYMER SYSTEM. REPLACE WITH NEW PIPING AS SHOWN ON D-1020.
2. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
3. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING AND CONSTRAINTS.
4. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.
5. RETAIN AND PROTECT EXISTING STAINLESS STEEL TANKS CURRENTLY USED FOR POLYMER AGING. THE TANKS WILL BE REUSED FOR POLYMER STORAGE. SEE D-1020 FOR MORE INFORMATION.
6. TREAT CUT ANCHORS AND EMBEDS PER DETAIL 0330-143.

SHEET KEYNOTES

1. DEMOLISH INSTRUMENTS, WIRING, CONDUIT, TANK MIXERS CONTROL PANELS AND OTHER EQUIPMENT ASSOCIATED WITH EACH TANK.
2. DEMOLISH NPW PIPING BACK TO THE TEE ON THE NPW PIPE WALL SPOOL IN PARALLEL WITH THE RESPECTIVE DRY POLYMER MAKE DOWN UNIT DEMOLITION. PLUG BRANCH ON NPW TEE.
3. SEQUENCE DEMOLITION OF POLYMER PIPING IN GRATED TRENCHES BETWEEN POLYMER FEED AND DILUTION UNITS 1-9 AND DEWATERING POLYMER STORAGE TANKS 1-4 TO MAINTAIN SERVICE TO ONLINE POLYMER FEED AND DILUTION UNITS.
4. REMOVE GRATING, PROTECT EXISTING GRATING SUPPORTS.
5. DEMOLISH CONCRETE SLAB AND EXCAVATE AS REQUIRED TO POUR NEW CONCRETE. COORDINATE EXTEND OF DEMOLITION WITH STRUCTURAL DRAWINGS. CORE DRILL CORNERS OF SLAB TO DIAMETER REQUIRED TO PREVENT OVER CUTTING OF REINFORCEMENT AND CONCRETE BEYOND DEMOLITION AREA. SAW CUT EXISTING CONCRETE AND REINFORCEMENT.
6. DEMOLISH 6" AND 8" FRT PIPING, VERTICAL RISERS FOR FLOOR DRAINS TO REMAIN.
7. SALVAGE DS PIPING, VALVES AND FLOW METER FOR RE-USE.

N

DEMOLITION - BASEMENT FLOOR PLAN

1/4"=1'-0"

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET
DX-1022
65 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 74579PE — Digitally Signed — OREGON — ALAN GOTHAM — EXP: 12-31-27

SCALE	VERT: AS SHOWN
	HORIZ: AS SHOWN
DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047
	LEGAL
SECTION	TOWNSHIP / RANGE

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PROJECT NAME: WWTP BELT PRESS MECHANICAL - DEMOLITION
SHEET NAME: PROCESS MECHANICAL - DEMOLITION BASEMENT POLYMER ENLARGED PLAN
LOCATION: IN THE CITY OF GRESHAM

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1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

CITY OF GRESHAM

PLOT TIME: $PLOTTIME
PLOT DATE: $PLOTDATE
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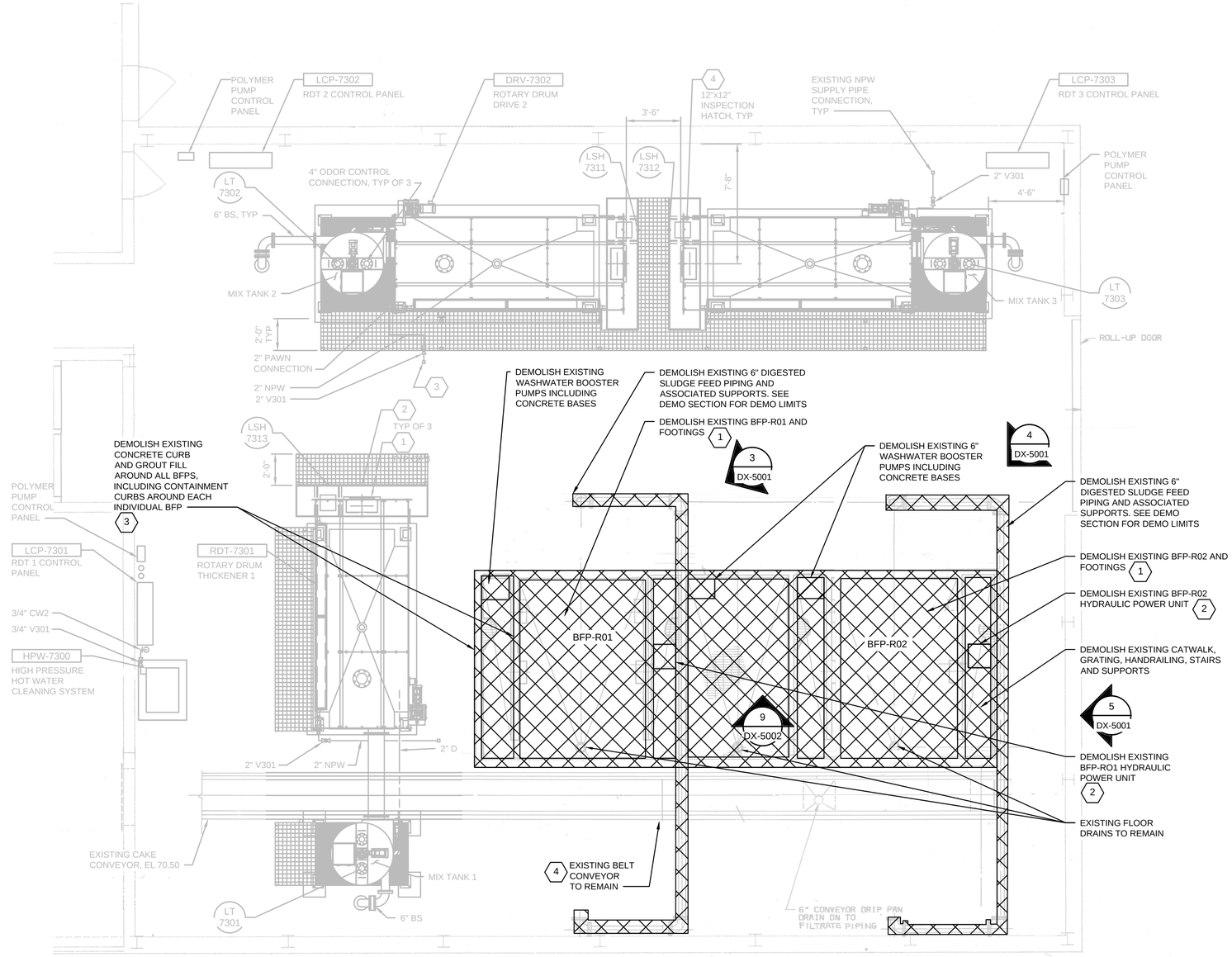

N

DEMOLITION - GROUND FLOOR PLAN

1/4"=1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.
4. TREAT CUT ANCHORS AND EMBEDS PER DETAIL 0330-143.

SHEET KEYNOTES

1. DEMOLISH ALL APPURTENANT ITEMS OF BFP-RO1 AND BFP-R02 INCLUDING HYDRAULIC DRIVE PIPING, ELECTRICAL WIRING AND CONDUIT, UTILITY WATER PIPING AND DRAIN PIPING.
2. DEMOLISH ALL APPURTENANT ITEMS OF THE HYDRAULIC POWER UNIT INCLUDING CONCRETE BASES, CONDUIT AND WIRING AND STAINLESS STEEL HYDRAULIC TUBING. DEMOLISH GROUT FILL FLUSH WITH EXISTING FINISH FLOOR SLAB ELEVATION.
3. DEMOLISH GROUT FILL AND FLUSH WITH EXISTING FLOOR SLAB ELEVATION.
4. EXISTING BELT CONVEYOR AND APPURTENANCES ARE TO REMAIN FUNCTIONAL. CONTRACTOR SHALL USE CAUTION IN DEMOLITION ACTIVITIES. DEMOLISH CONCRETE CURBS FLUSH WITH EXISTING FINISH FLOOR SLAB ELEVATION.

NO.	DATE	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET DX-1030
66 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 14P0378 — Digital Signature — 24D2004 — BRETT W. REIS — 12/31/26

EXP.: 12/31/26

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SCALE VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - DEMOLITION GROUND FLOOR PLAN

LOCATION: IN THE CITY OF GRESHAM

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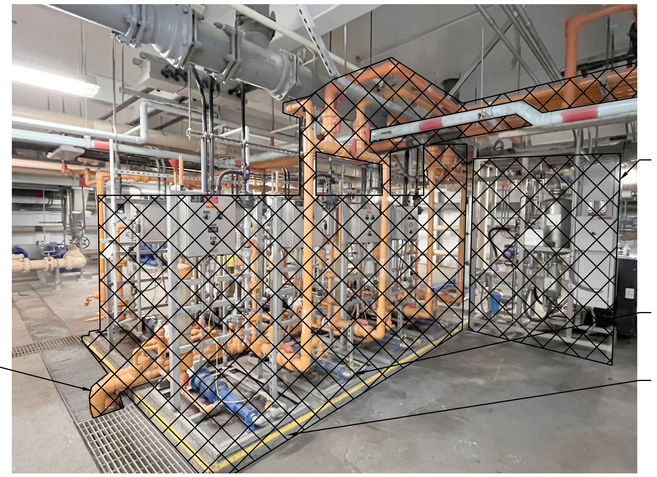
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

Jacobs

FILENAME: DX-1030_D3838501.dwg PLOT DATE: $PLOTDATE PLOT TIME: $PLOTTIME



1 DEMOLITION OF POLYMER FEED AND DILUTION UNITS 1-9

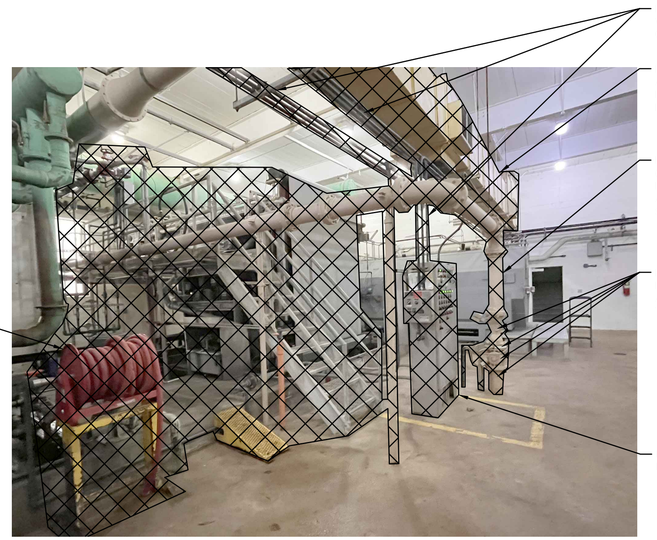
NTS

DX-1022

2 DEMOLITION OF OREGE SKID

NTS

DX-1022



3 DEMO PHOTO DETAIL

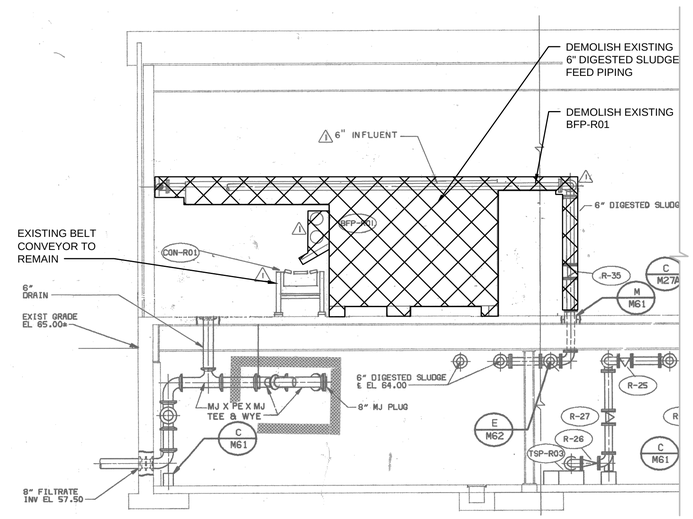
NTS

DX-1030

4 DEMO PHOTO DETAIL

NTS

DX-1030



5 DEMO DETAIL

NTS

DX-1030

GENERAL SHEET NOTES

1. CONTRACTOR TO REMOVE ALL POLYMER PIPING ASSOCIATED WITH THE EXISTING POLYMER SYSTEM. REPLACE WITH NEW PIPING AS SHOWN ON D-1020.
2. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
3. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
4. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.
5. TREAT CUT ANCHORS AND EMBEDS PER DETAIL 0330-143.

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET DX-5001 67 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 5/6/2016 — BRETT W. RESLAND — 90814 — Digital Signature — EXP.: 12/31/26

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: PROCESS MECHANICAL - DEMOLITION DETAILS
LOCATION: IN THE CITY OF GRESHAM

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GRESHAM, OREGON 97030-3813
503-618-2525

CITY OF GRESHAM

Jacobs

PLOT TIME: $PLOTTIME
PLOT DATE: $PLOTDATE
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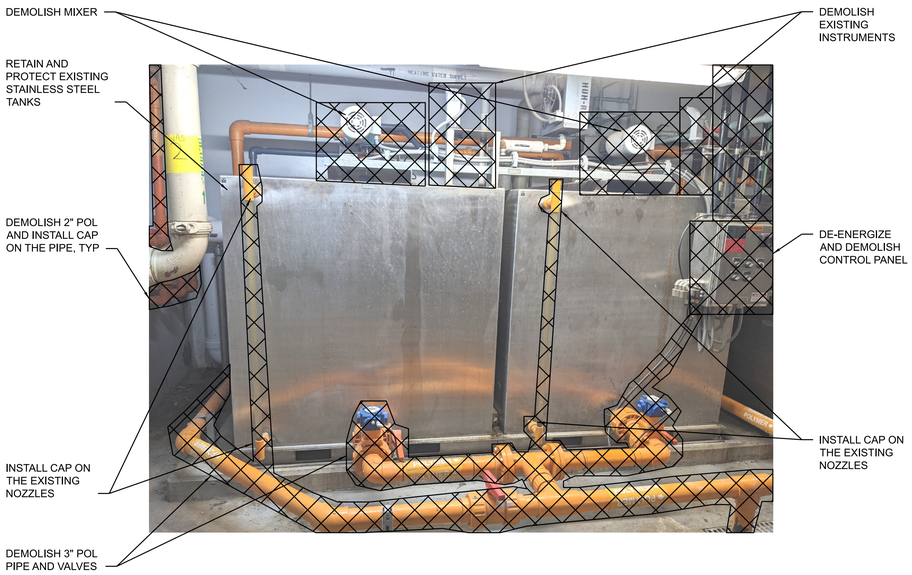
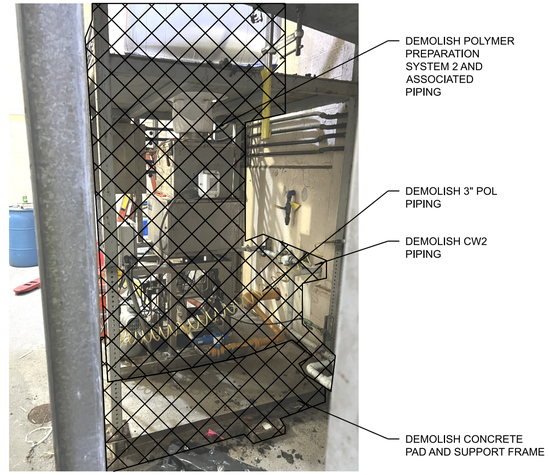


6 DEMO PHOTO DETAIL
NTS
DX-1022



7 DEMO PHOTO DETAIL
NTS
DX-1022

8 DEMO PHOTO DETAIL
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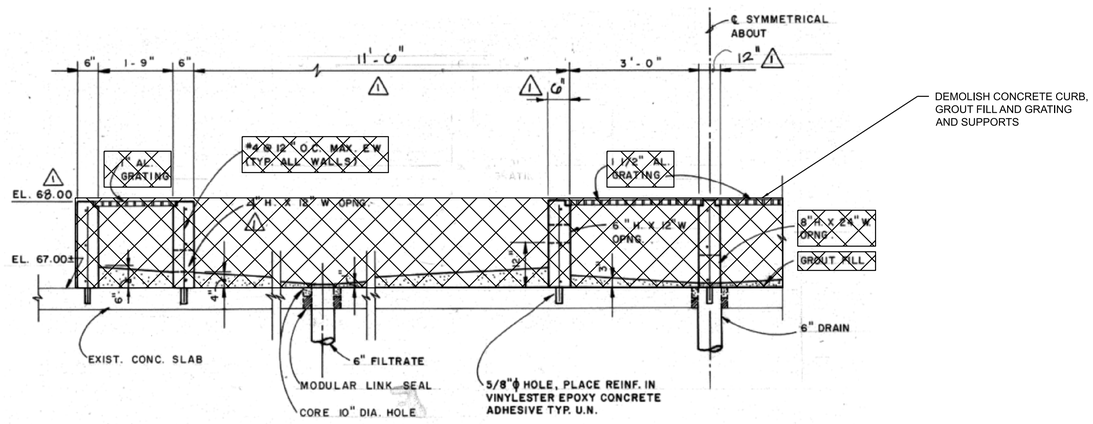

9 DEMO PHOTO DETAIL
NTS
DX-1030

GENERAL SHEET NOTES

1. CONTRACTOR TO REMOVE ALL POLYMER PIPING ASSOCIATED WITH THE EXISTING POLYMER SYSTEM. REPLACE WITH NEW PIPING AS SHOWN ON D-1020.
2. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
3. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
4. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.
5. TREAT CUT ANCHORS AND EMBEDS PER DETAIL 0330-143.

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET DX-5002
68 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 74070PE — Digitally Signed — ALAN GRAHAM — EXP: 12-31-27

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SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: PROCESS MECHANICAL - DEMOLITION DETAILS
LOCATION: IN THE CITY OF GRESHAM

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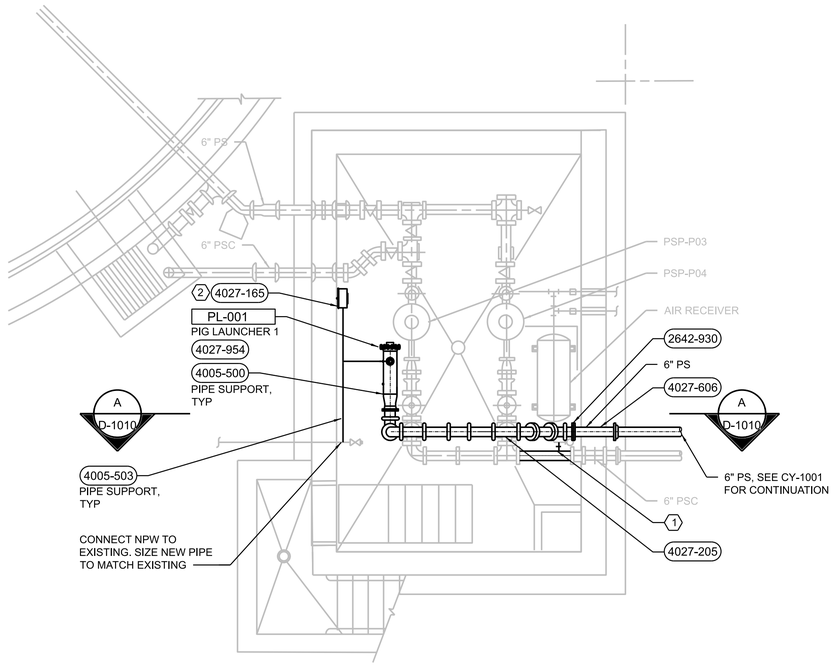
503-618-2525

Jacobs

FILENAME: DX-5002_D3838501.dwg PLOT DATE: 2-MAR-2026 PLOT TIME: 11:00



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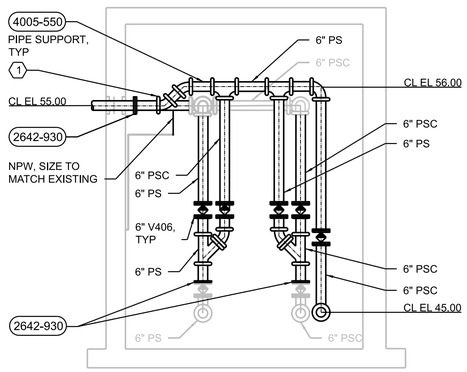
PUMPING STATION NO.1

1/4"=1'-0"



A SECTION

1/4" = 1-0"

D-1010

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.

SHEET KEYNOTES

1. REINSTALL SALVAGED 6" SCUM PIPING SO DRAIN IS FACING DOWN. RE-CONNECT TO EXISTING PIPING.
2. REINSTALL SALVAGED HOSE CADDY.

DATE	NO.	REVISION	BY

DESIGNED: DF
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET D-1010
69 OF 110

REGISTERED PROFESSIONAL ENGINEER — Digitally Signed — OREGON — 91769PE — DAVID LEONARD — Nov 19, 2025 — EXP: 12/31/27

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SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - PRIMARY CLARIFIER PUMP STATION 1

LOCATION: IN THE CITY OF GRESHAM

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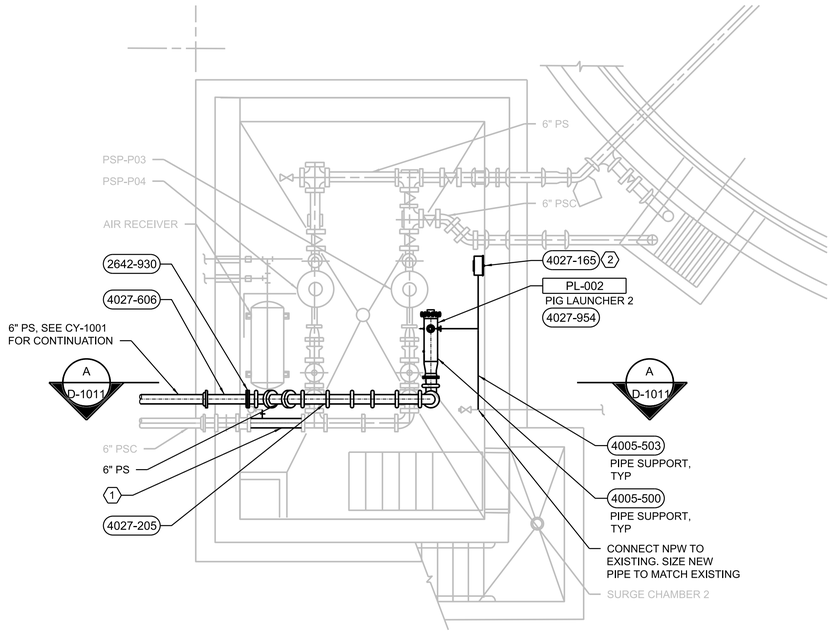
GRESHAM, OREGON 97030-3813
503-618-2525

Jacobs

FILENAME: D-1010_I3838501.dwg PLOT DATE: 26-FEB-2026 PLOT TIME: 03:57



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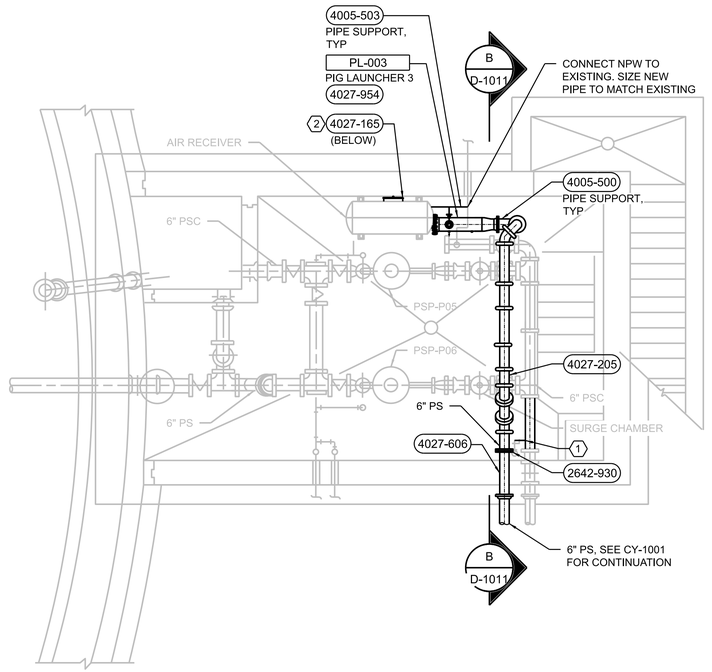
PUMPING STATION NO.2

1/4"=1'-0"



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PUMPING STATION NO.3

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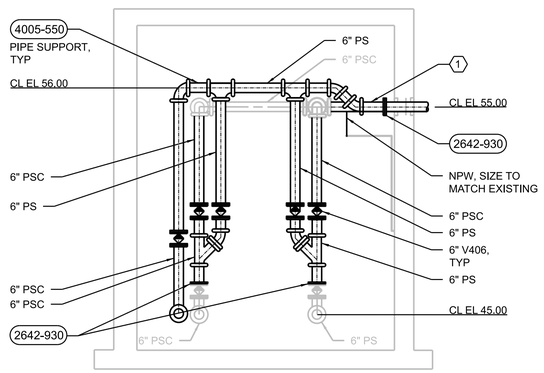
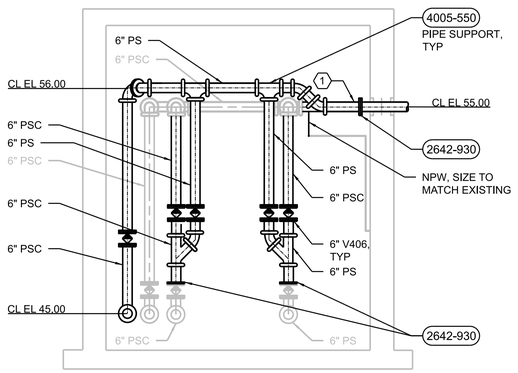


A SECTION

1/4" = 1-0"

D-1011



B SECTION

1/4" = 1-0"

D-1011

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.

SHEET KEYNOTES

1. REINSTALL SALVAGED 6" SCUM PIPING SO DRAIN IS FACING DOWN. RE-CONNECT TO EXISTING PIPING.
2. REINSTALL SALVAGED HOSE CADDY.

NO.	DATE	REVISION	BY

DESIGNED: DF
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET D-1011
70 OF 110

REGISTERED PROFESSIONAL ENGINEER — 91769PE — OREGON — JULY 13, 2007 — DAVID LEONARD — Digitally Signed — EXP. 12/31/27

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SCALE VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - PRIMARY CLARIFIER PUMP STATION 2 & 3

LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
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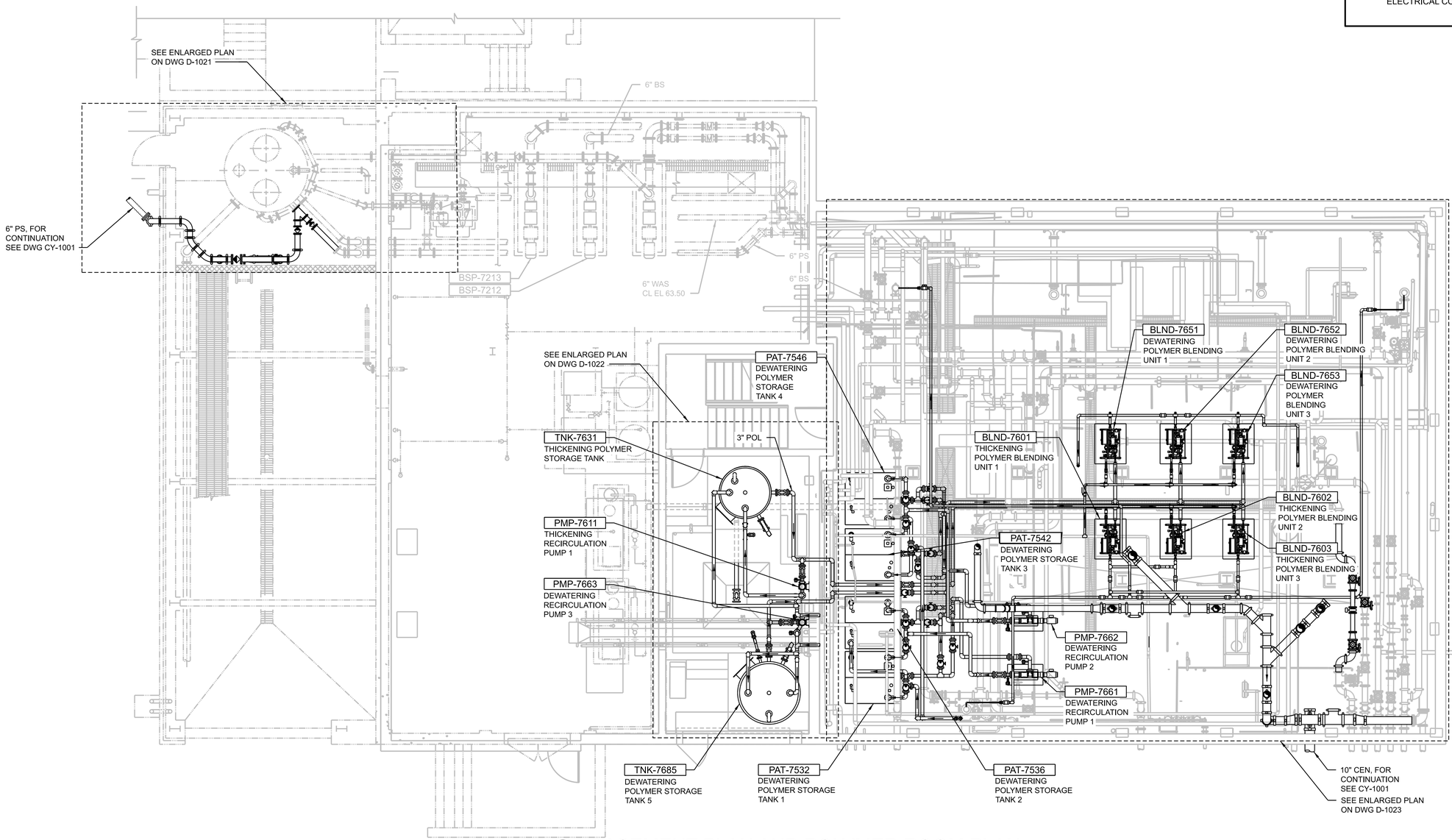
GRESHAM, OREGON 97030-3813
503-618-2525

Jacobs

FILENAME: D-1011_I3838501.dwg PLOT DATE: 27-FEB-2026 PLOT TIME: 02:38

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.
4. CONTRACTOR SHALL ROUTE NEW POLYMER PIPING TO AVOID CONFLICT WITH EXISTING LIGHTING, ELECTRICAL CONDUITS, PIPING AND EQUIPMENT.



BASEMENT PLAN AND POLYMER ROOM PLAN

3/16"=1'-0"

Jacobs

NO.	DATE	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET D-1020
71 OF 110

REGISTERED PROFESSIONAL ENGINEER — 74311PE — OREGON — ALAN LOY HUNG — Digitally Signed — EXP: 12-31-27

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SCALE VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - BASEMENT PLAN AND POLYMER ROOM PLAN

LOCATION: IN THE CITY OF GRESHAM

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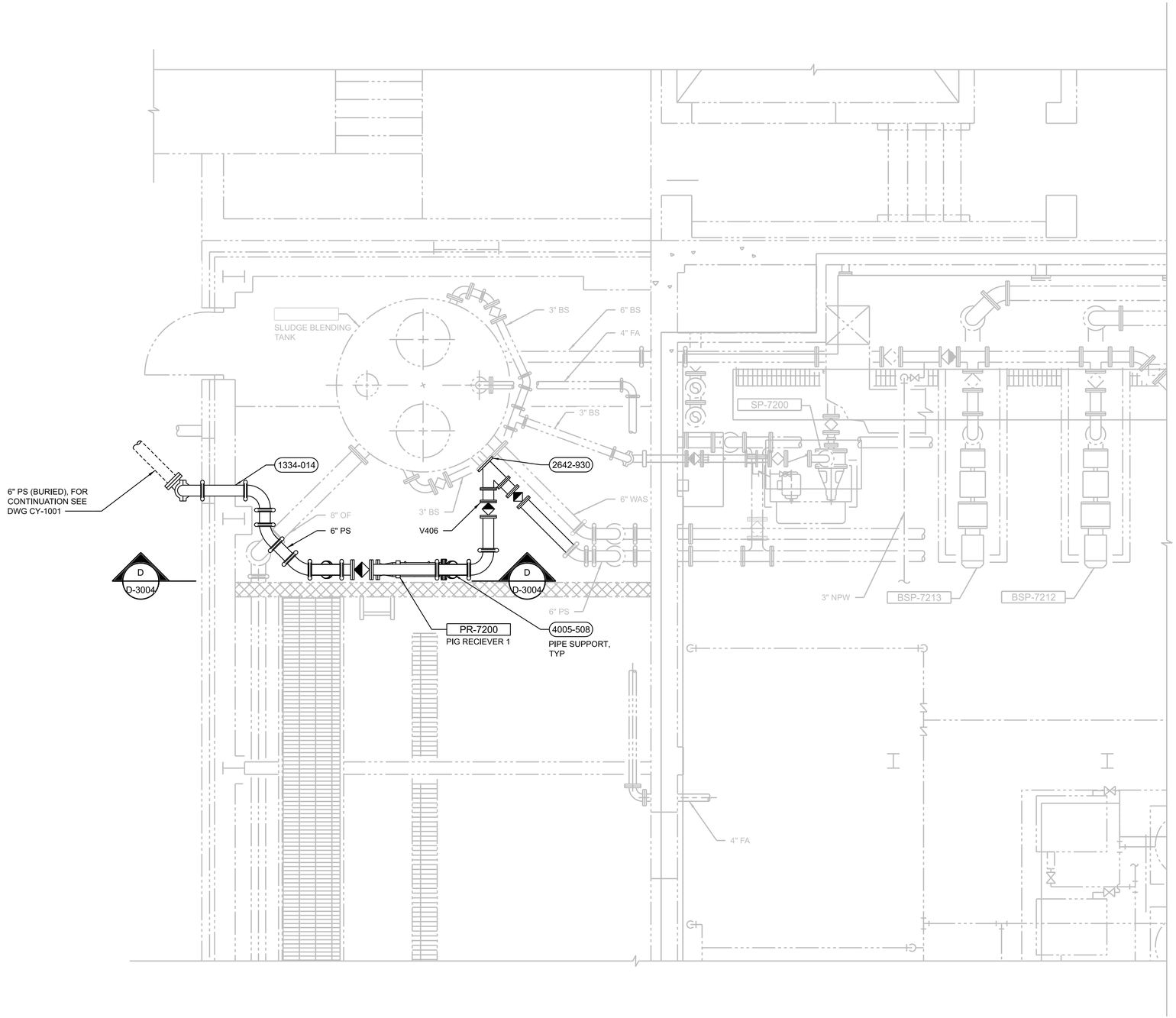
GRESHAM, OREGON 97030-3813
503-618-2525

FILENAME: D-1020_D3838501.dwg PLOT DATE: 3-MAR-2026 PLOT TIME: 05:04

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.



N

BLENDED SLUDGE TANK ROOM ENLARGED PLAN

3/8"=1'-0"

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: DF
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET D-1021
72 OF 110

REGISTERED PROFESSIONAL ENGINEER — 91769PE — OREGON — JULY 13, 2007 — DAVID LEONARD LUNDBERG — Digitally Signed — EXP. 12/31/27

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HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION | TOWNSHIP | RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - BLENDED SLUDGE TANK ROOM ENLARGED PLAN

LOCATION: IN THE CITY OF GRESHAM

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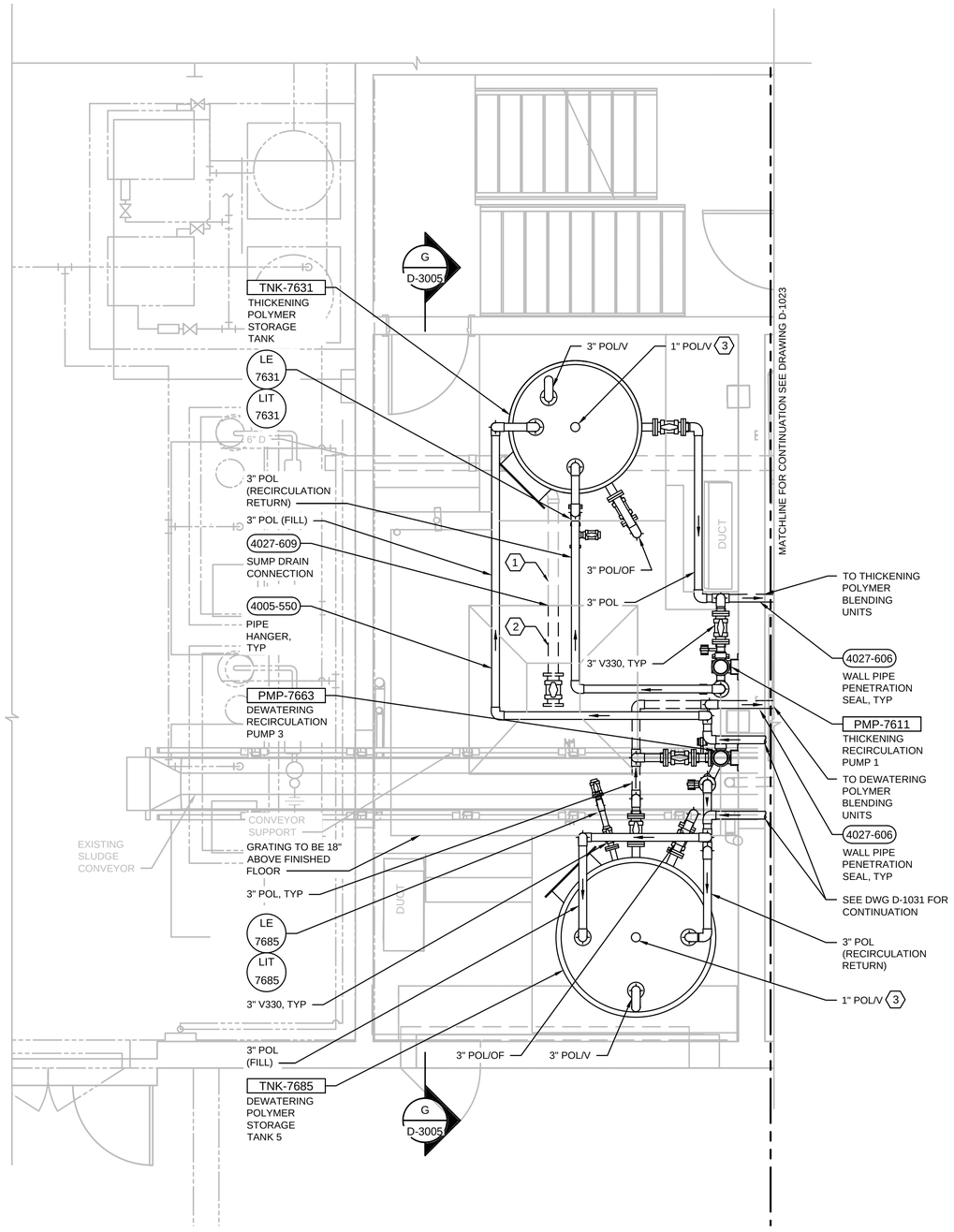
FILENAME: D-1021_D3838501.dwg PLOT DATE: 26-FEB-2026 PLOT TIME: 03:58



POLYMER ROOM ENLARGED PLAN

3/8"=1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.

SHEET KEYNOTES

1. CONTRACTOR TO FIELD VERIFY THE PIPE SIZE, MATERIAL AND ELEVATION OF THE EXISTING DRAIN PIPE.
2. CONTRACTOR SHALL INSTALL NEW PVC PIPE FROM THE SUMP AND CONNECT TO THE EXISTING DRAIN PIPE WITH THE FITTINGS AS REQUIRED. THE SIZE OF THE BALL VALVE AND PVC PIPE WILL NEED TO BE DETERMINED AFTER THE FIELD VERIFICATION OF THE EXISTING SYSTEM. COORDINATE WITH ENGINEER IF DEVIATIONS ARE OBSERVED.
3. INSTALL 1" THERMOPLASTIC BULKHEAD FITTINGS SHALL BE MANUFACTURED FROM PVC TYPE 1, GRADE 1 (ASTM D1784, CELL CLASSIFICATION 12454), EPDM GASKET. HAYWARD FLOW CONTROL OR APPROVED EQUAL. CAP FOR FUTURE DESICCANT CONNECTION.

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET D-1022
73 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — ALAN R. GOTHAM — 74577PE — Digitally Signed — EXP: 12-31-27

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HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
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SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - POLYMER ROOM ENLARGED PLAN

LOCATION: IN THE CITY OF GRESHAM

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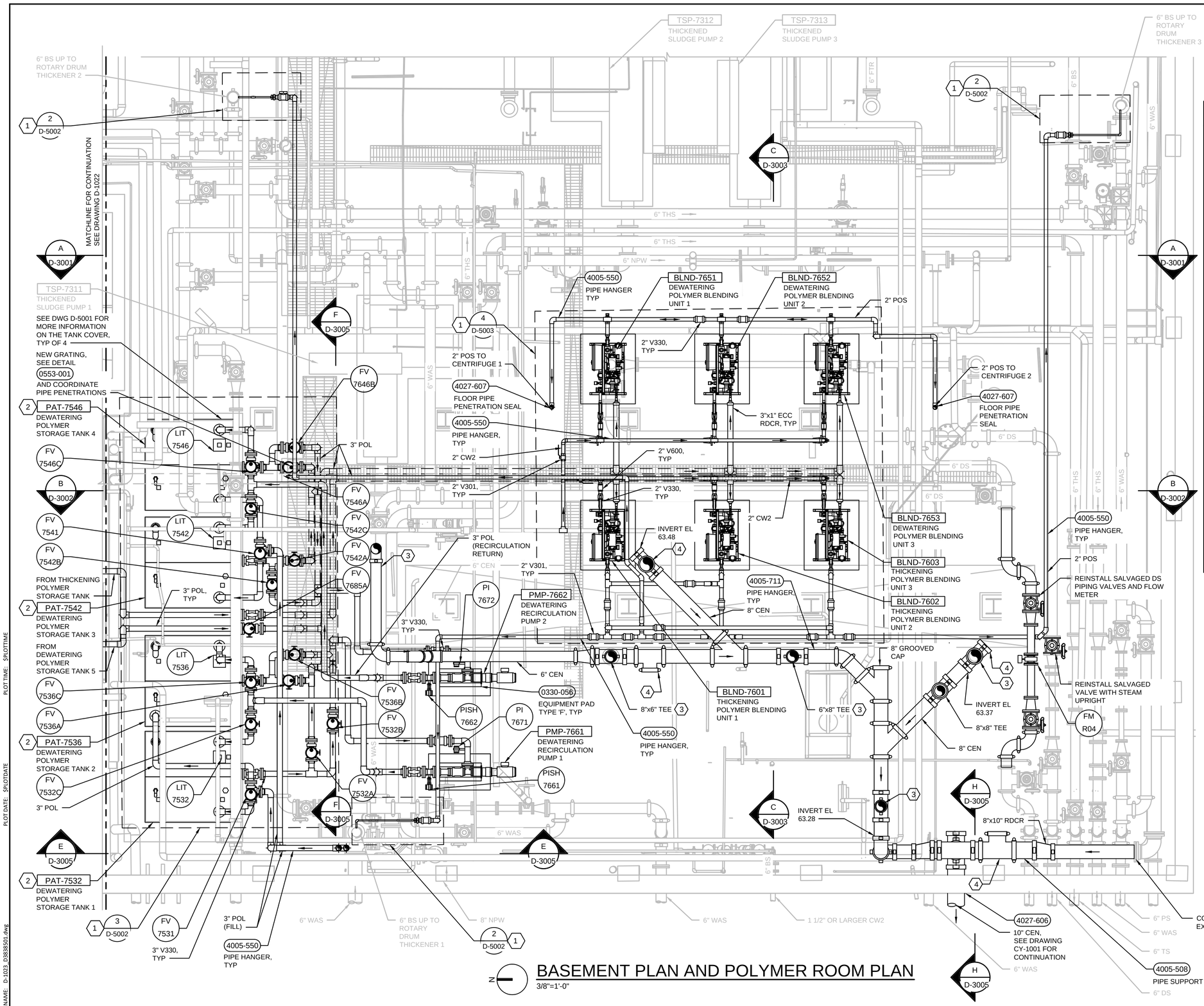
503-618-2525

CITY OF GRESHAM

Jacobs

FILENAME: D-1022_03838501.dwg PLOT DATE: $PLOTDATE PLOT TIME: $PLOTTIME



BASEMENT PLAN AND POLYMER ROOM PLAN

3/8"=1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS. CONTRACTOR TO SLOPE THE PIPE DOWNWARDS IN A CONSTANT SLOPE.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.
4. CONTRACTOR SHALL ROUTE NEW POLYMER PIPING TO AVOID CONFLICT WITH EXISTING LIGHTING, ELECTRICAL CONDUITS, PIPING AND EQUIPMENT.
5. SLOPE ALL CENTRATE PIPING MINIMUM 3% IN THE DIRECTION OF FLOW.
6. ALL VALVES INSTALLED IN THE OVERHEAD PIPING SHALL HAVE VALVE OPERATORS POINTED DOWNWARDS.
7. CONTRACTOR SHALL ROUTE THE 3" POL/OF AND 3" POL/D FROM THE DEWATERING POLYMER STORAGE TANKS TO THE NEAREST FLOOR DRAIN.
8. CONTRACTOR TO SLOPE THE POLYMER PIPE FROM HIGH POINTS TOWARDS THE TANKS.

SHEET KEYNOTES

1. LOCATION FOR THE POS CONNECTION POINTS SHOWN ON THE DRAWINGS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATIONS.
2. EXISTING STAINLESS STEEL TANKS MUST BE CLEANED, PICKLED AND PASSIVATED IN ACCORDANCE WITH ASTM A380/A380M, STANDARD PRACTICE FOR CLEANING, DESCALING, AND PASSIVATION OF STAINLESS STEEL PARTS, EQUIPMENT, AND SYSTEM. FOR MORE INFORMATION SEE D-5001.
3. CONNECT NEW 6" CEN PIPING TO EXISTING PIPING FROM FLOOR DRAINS.
4. PROVIDE LINE-SIZED TEE WITH GROOVED CAP.

DATE	NO.	REVISION	BY

SHEET D-1023 74 OF 110

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

EXP. 12-31-27

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DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - BASEMENT PLAN AND POLYMER ROOM PLAN

LOCATION: IN THE CITY OF GRESHAM

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503-618-2525

Jacobs

PLOT TIME: $PLOTTIME
PLOT DATE: $PLOTDATE
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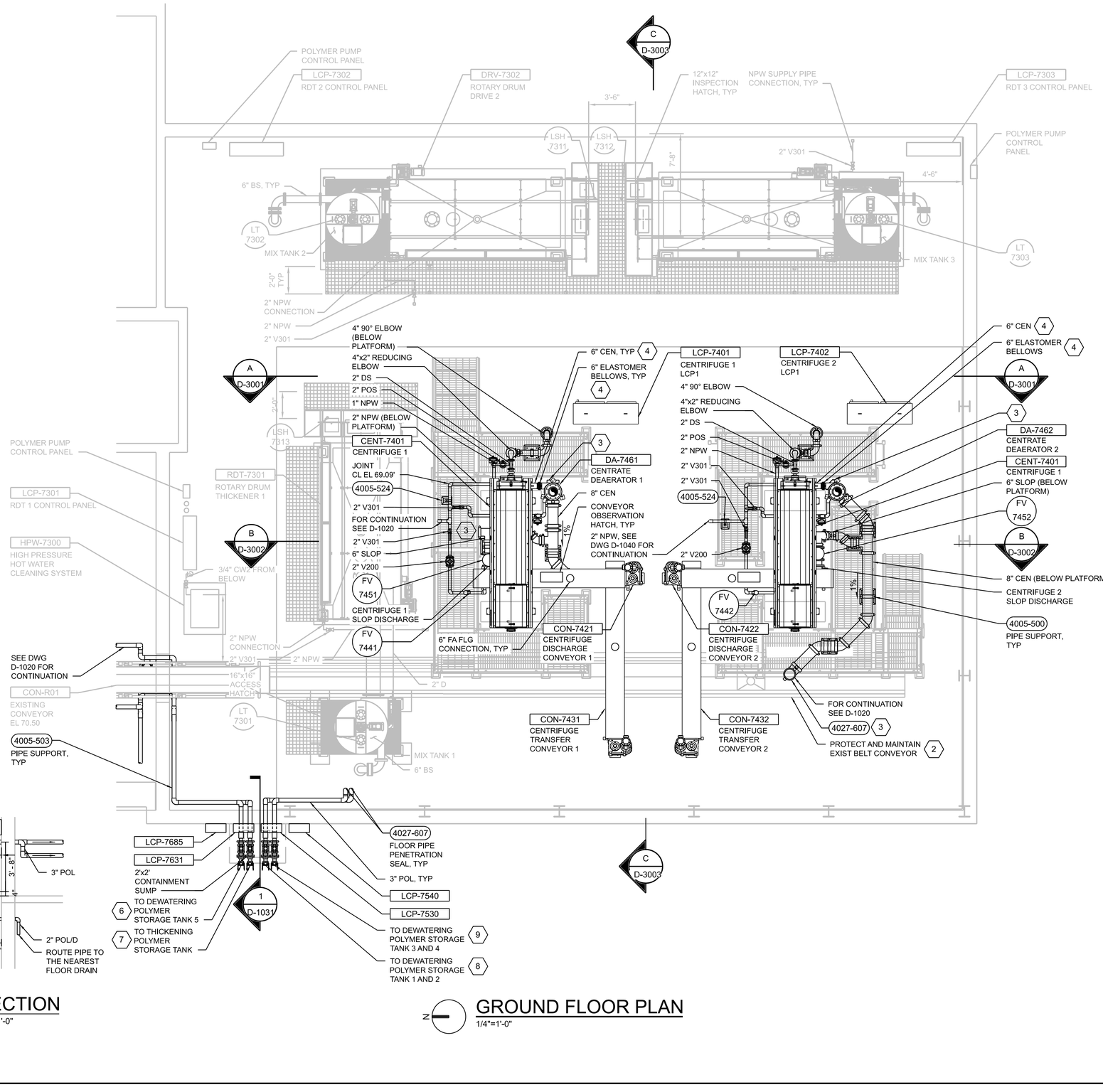

1 D-1031 **SECTION**
1/4"=1'-0"

N **GROUND FLOOR PLAN**
1/4"=1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.
4. SLOPE ALL CENTRATE PIPING MINIMUM 3% IN THE DIRECTION OF FLOW.

SHEET KEYNOTES

1. 3" QUICK CONNECT COUPLING. SEE SPECIFICATION SECTION 40 27 01, PROCESS PIPING SPECIALITIES.
2. DEWATERED SOLIDS BELT CONVEYOR SHALL BE KEPT IN OPERATION AT ALL TIMES.
3. PROVIDE GROOVED CAP TAPPED WITH FLUSHING CONNECTION, SIM TO DETAIL 4027-191.
4. 6" CEN LINE AND 6" ELASTOMER BELLOWS SHALL BE PROVIDED BY THE CENTRIFUGE VENDOR.
5. CONTAINMENT SUMP DRAIN VALVE WITH RING FLANGE, NORMALLY CLOSED. EXTEND VALVE STEM AND OPERATOR TO 2" BENEATH THE BOTTOM OF THE GRATING.
6. ADD SIGN S-29. SEE SECTION 10 14 00, SIGNAGE.
7. ADD SIGN S-30. SEE SECTION 10 14 00, SIGNAGE.
8. ADD SIGN S-31. SEE SECTION 10 14 00, SIGNAGE.
9. ADD SIGN S-32. SEE SECTION 10 14 00, SIGNAGE.

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET D-1031
75 OF 110

REGISTERED PROFESSIONAL ENGINEER OREGON 54902PE Digital Signature 06/30/26 BRETT W. REIS 75749

EXP.: 12/31/26

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SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: PROCESS MECHANICAL-SOLIDS THICKENING AND DEWATERING ROOM ENLARGED PLAN
LOCATION: IN THE CITY OF GRESHAM

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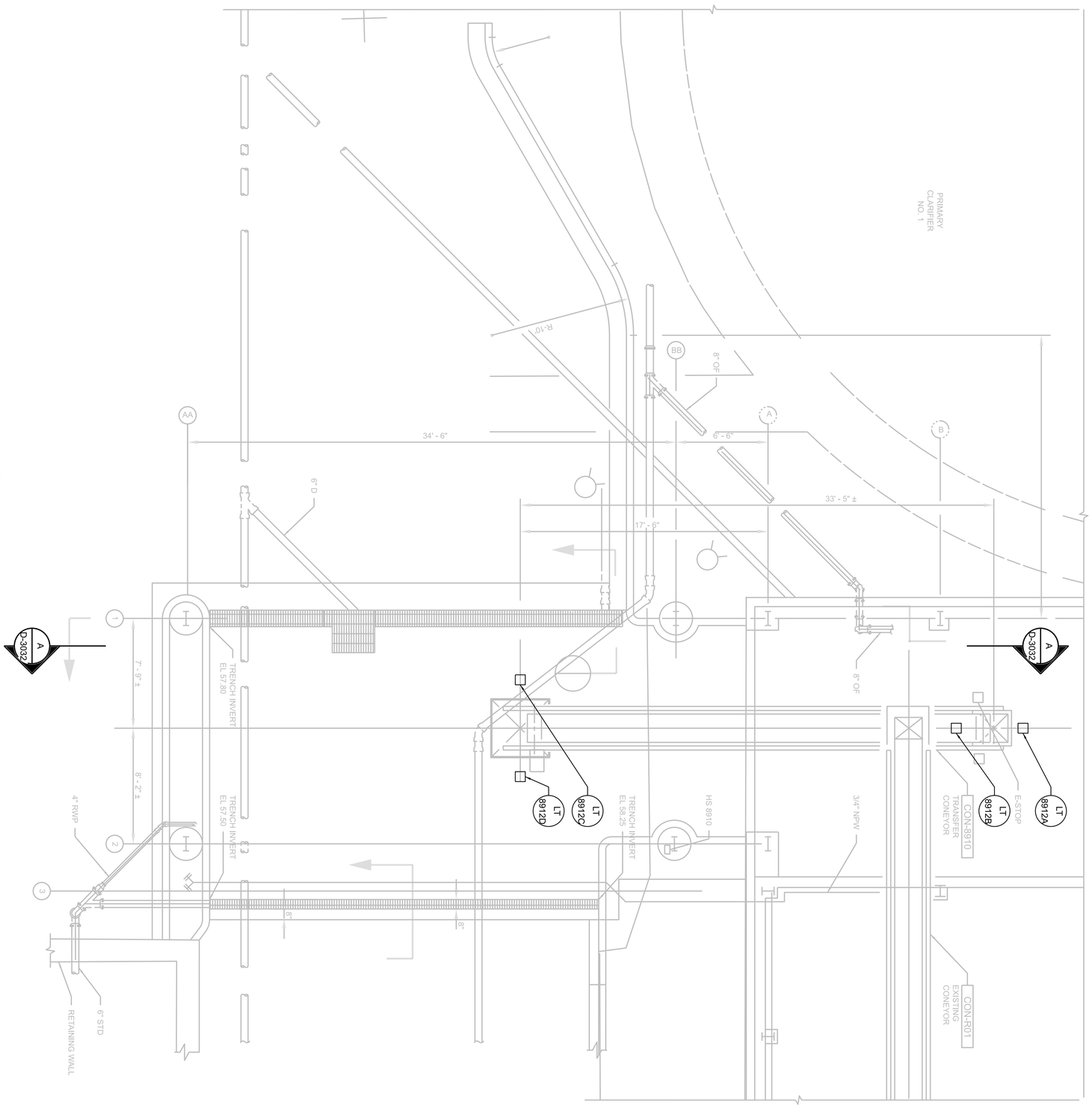
503-618-2525

Jacobs

PLOT TIME: 11:58
PLOT DATE: 2-MAR-2026
FILENAME: D-1030_D3838501.dwg

SOLIDS LOADING AREA

1/4"=1'-0"



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CITY OF GRESHAM

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - SOLIDS LOADING AREA ENLARGED PLAN

LOCATION: IN THE CITY OF GRESHAM

SCALE	VERT: AS SHOWN
	HORIZ: AS SHOWN
DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047

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SECTION	TOWNSHIP	RANGE

REGISTERED PROFESSIONAL ENGINEER
54903PE
OREGON
Digital Signature
JULY 9, 2001
BRETT W. REISTAD
EXP. 12/31/26

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET D-1032
76 OF 110

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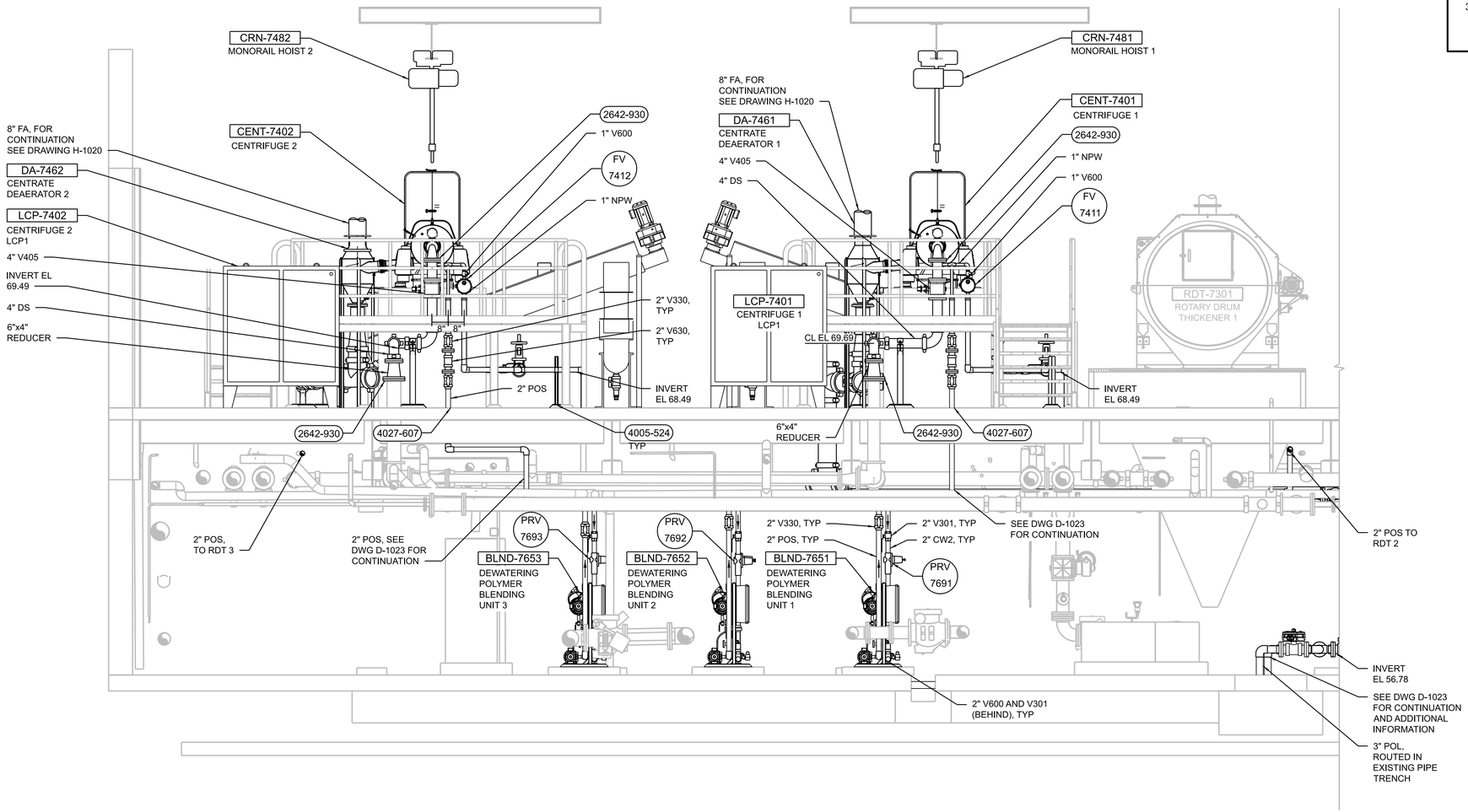
GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.



A SECTION
3/8"=1'-0"
D-1023
D-1031

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET D-3001
77 OF 110

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SCALE VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - CENTRIFUGE SECTION

LOCATION: IN THE CITY OF GRESHAM

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503-618-2525

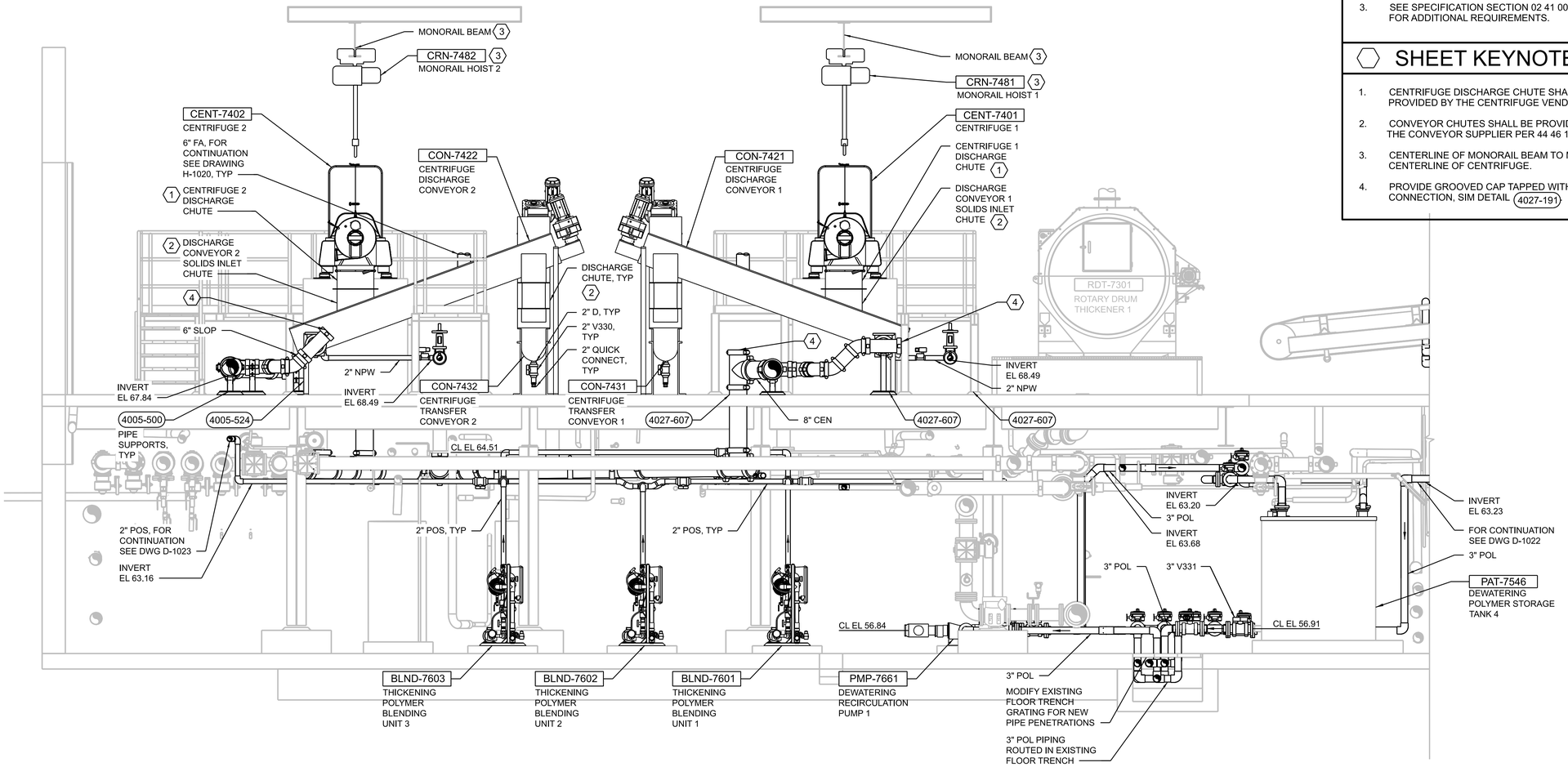
FILENAME: D-3001_D3838501.dwg PLOT DATE: 2-MAR-2026 PLOT TIME: 11:04

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.

SHEET KEYNOTES

1. CENTRIFUGE DISCHARGE CHUTE SHALL BE PROVIDED BY THE CENTRIFUGE VENDOR.
2. CONVEYOR CHUTES SHALL BE PROVIDED BY THE CONVEYOR SUPPLIER PER 44 46 13.02.
3. CENTERLINE OF MONORAIL BEAM TO MATCH CENTERLINE OF CENTRIFUGE.
4. PROVIDE GROOVED CAP TAPPED WITH FLUSHING CONNECTION, SIM DETAIL (4027-191)



B SECTION
3/8"=1'-0"
D-1023
D-1031

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET D-3002
78 OF 110

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DATE: MARCH 2026
PROJECT NO.: CIPWW00047
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SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - CENTRIFUGE SECTION

LOCATION: IN THE CITY OF GRESHAM

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503-618-2525

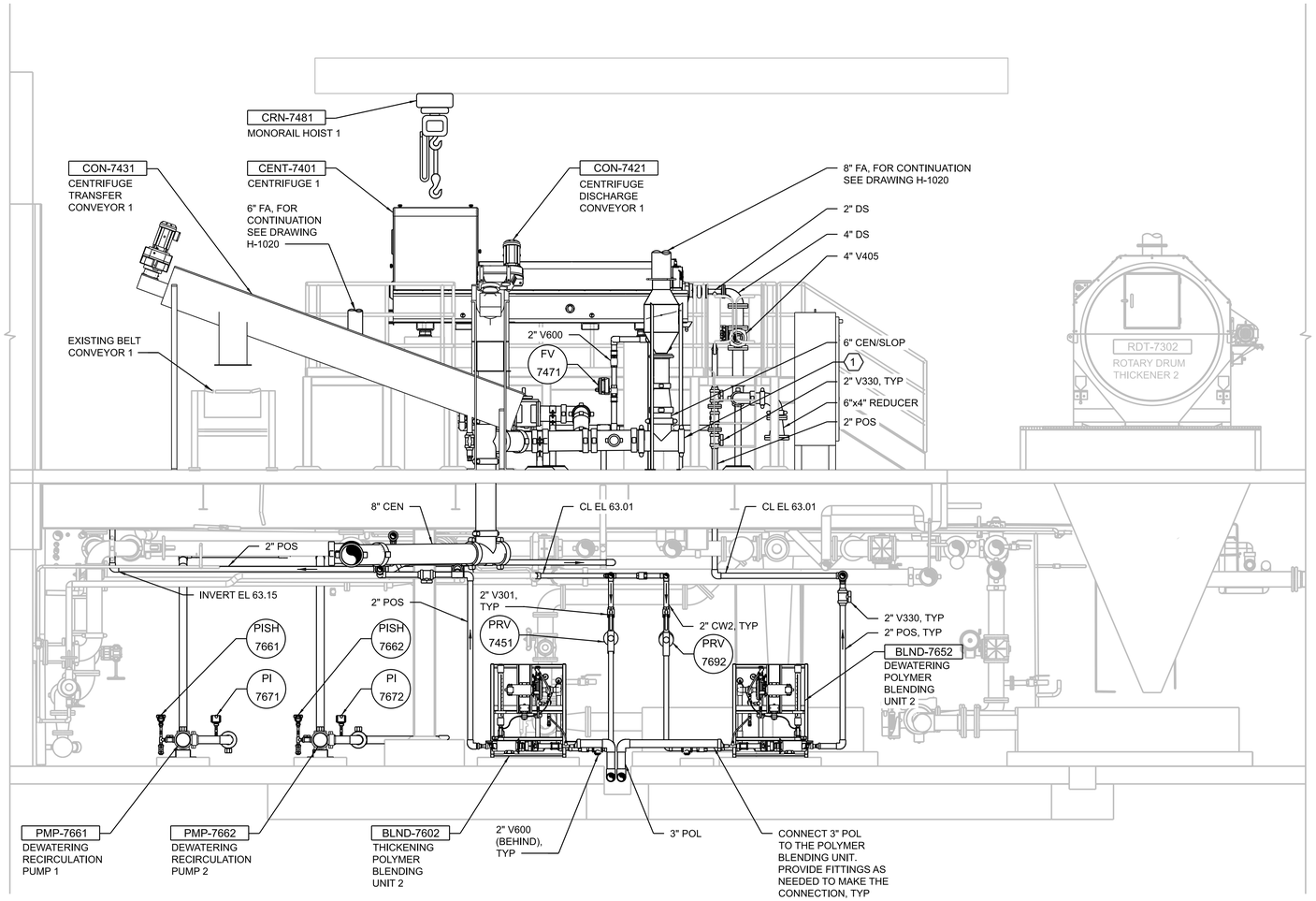
PLOT TIME: 01:33
PLOT DATE: 25-FEB-2026
FILENAME: D-3002_D3838501.dwg

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.

SHEET KEYNOTES

1. PROVIDE GROOVED CAP TAPPED WITH FLUSHING CONNECTION, SIM DETAIL (4027-191)



C SECTION
3/8"=1'-0"
D-1023
D-1031

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET D-3003 79 OF 110

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - CENTRIFUGE SECTION

LOCATION: IN THE CITY OF GRESHAM

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PLOT TIME: 11:05
PLOT DATE: 2-MAR-2026
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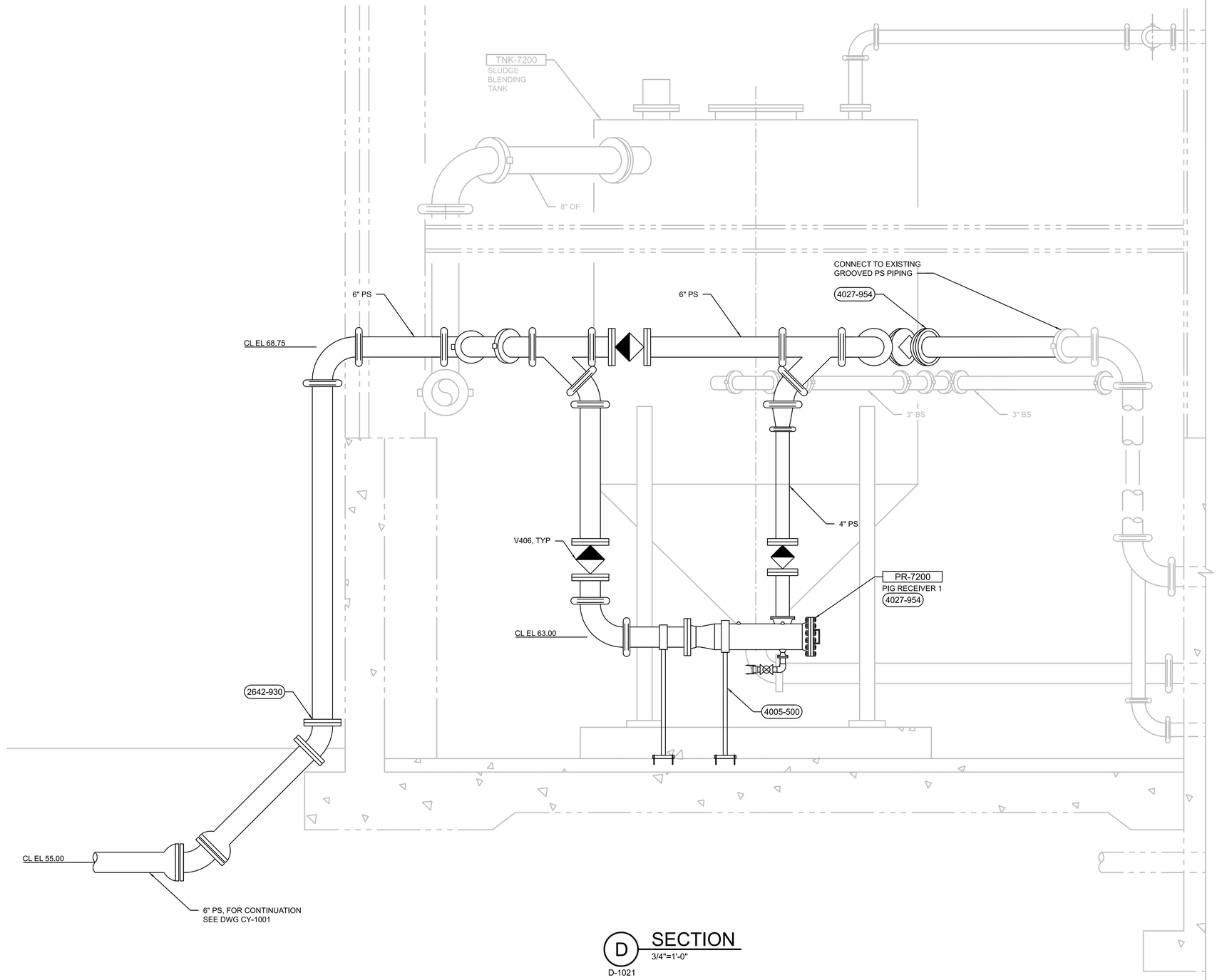

D SECTION
3/4"=1'-0"
D-1021

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET D-3004
80 OF 110

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 13, 2007
DAVID LEONARD
Digitally Signed
EXP. 12/31/27

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - BLENDED SLUDGE TANK SECTION

LOCATION: IN THE CITY OF GRESHAM

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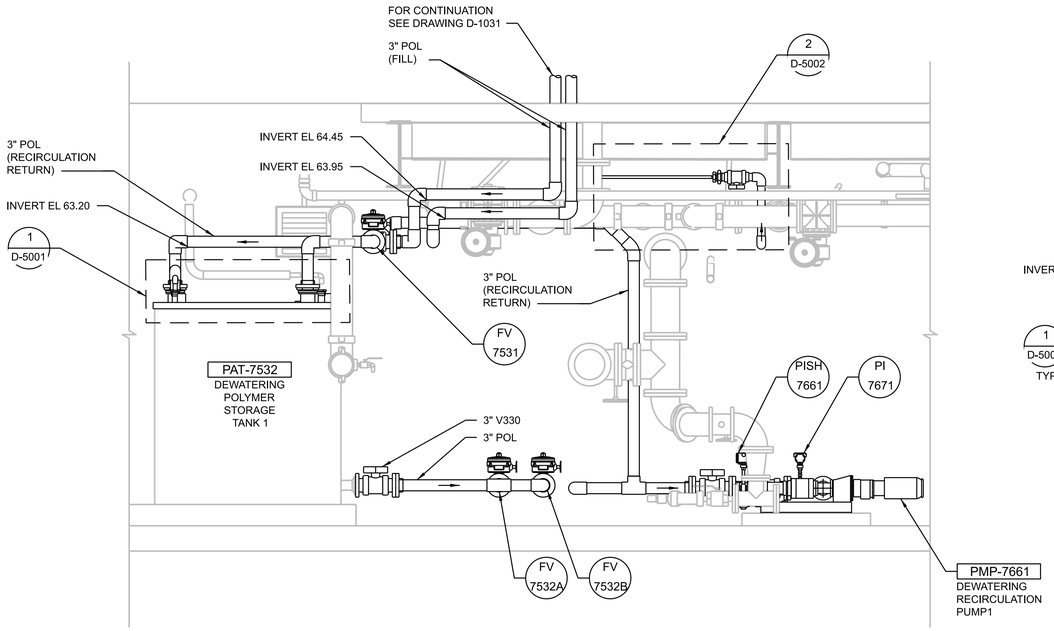
Jacobs

FILENAME: D-3004_I3838501.dwg PLOT DATE: 2-MAR-2026 PLOT TIME: 11:05



E SECTION
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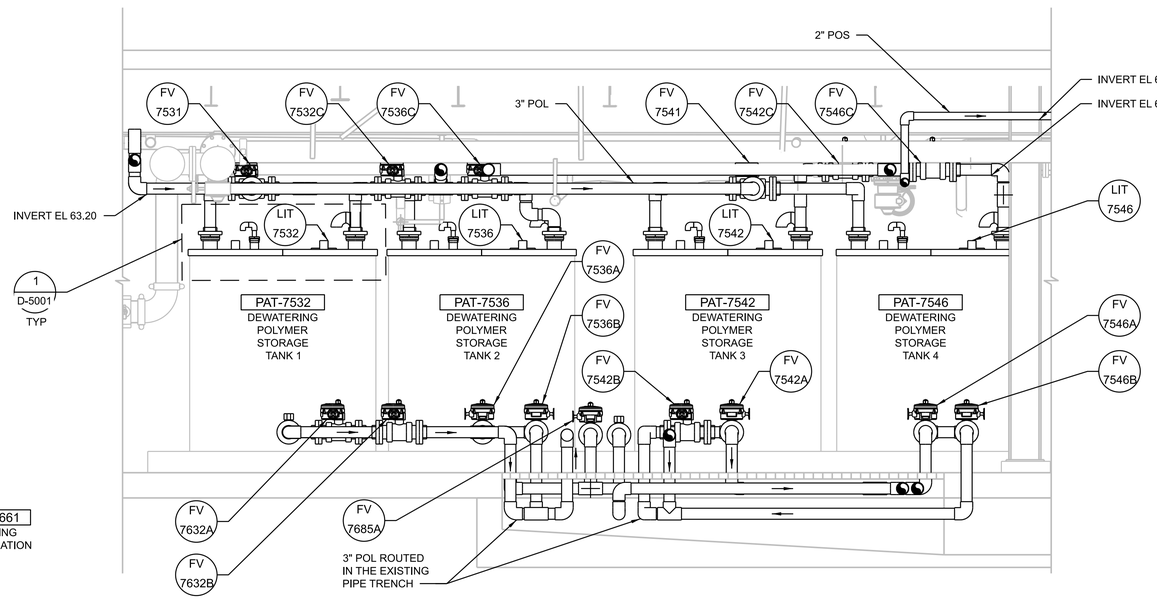
D-1023



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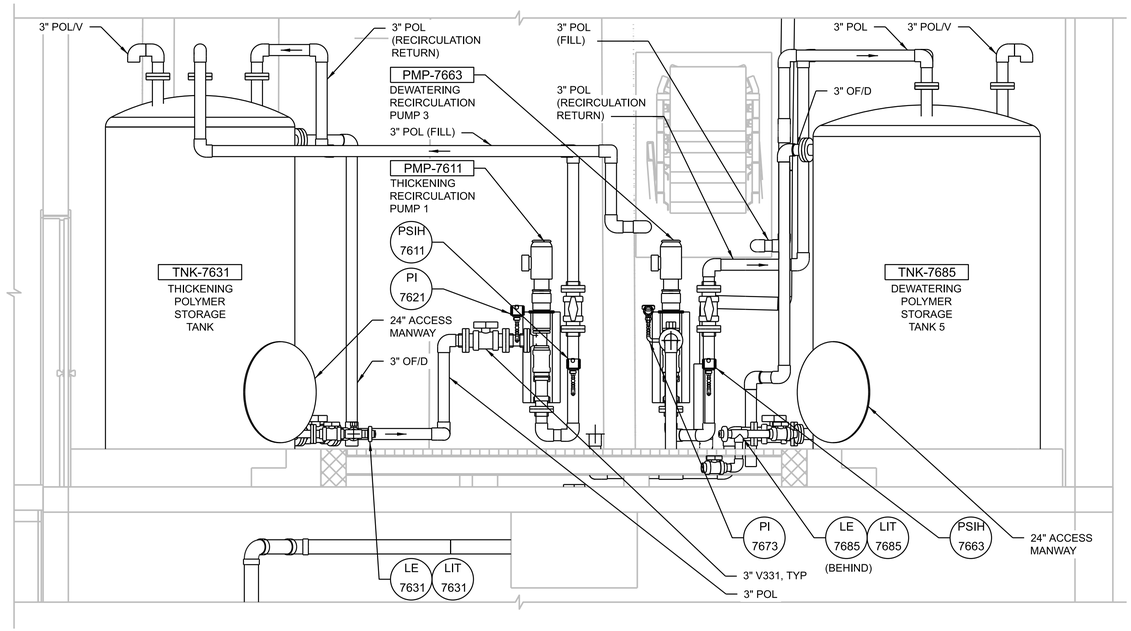

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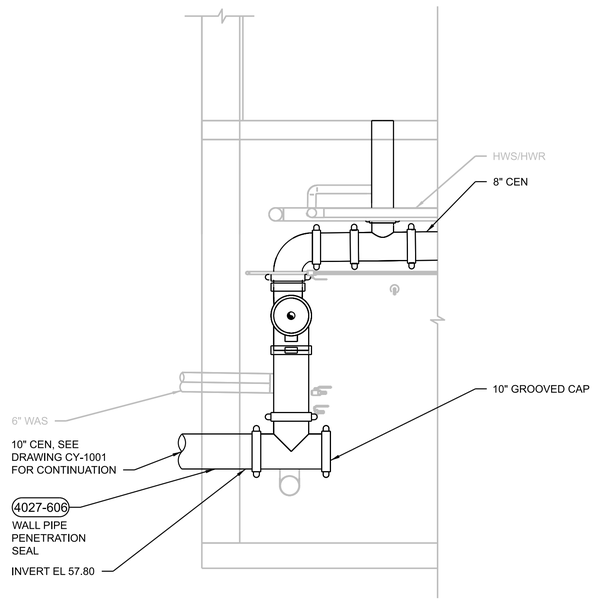

H SECTION
1/2"=1'-0"
D-1023

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET D-3005
81 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 74077PE — Digitally Signed — RENEWAL 12-31-27 — EXP: 12-31-27

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SCALE VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - SOLID BASEMENT AND POLYMER ROOM SECTIONS

LOCATION:
IN THE CITY OF GRESHAM

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CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

PLOT DATE: 27-FEB-2026 PLOT TIME: 02:59
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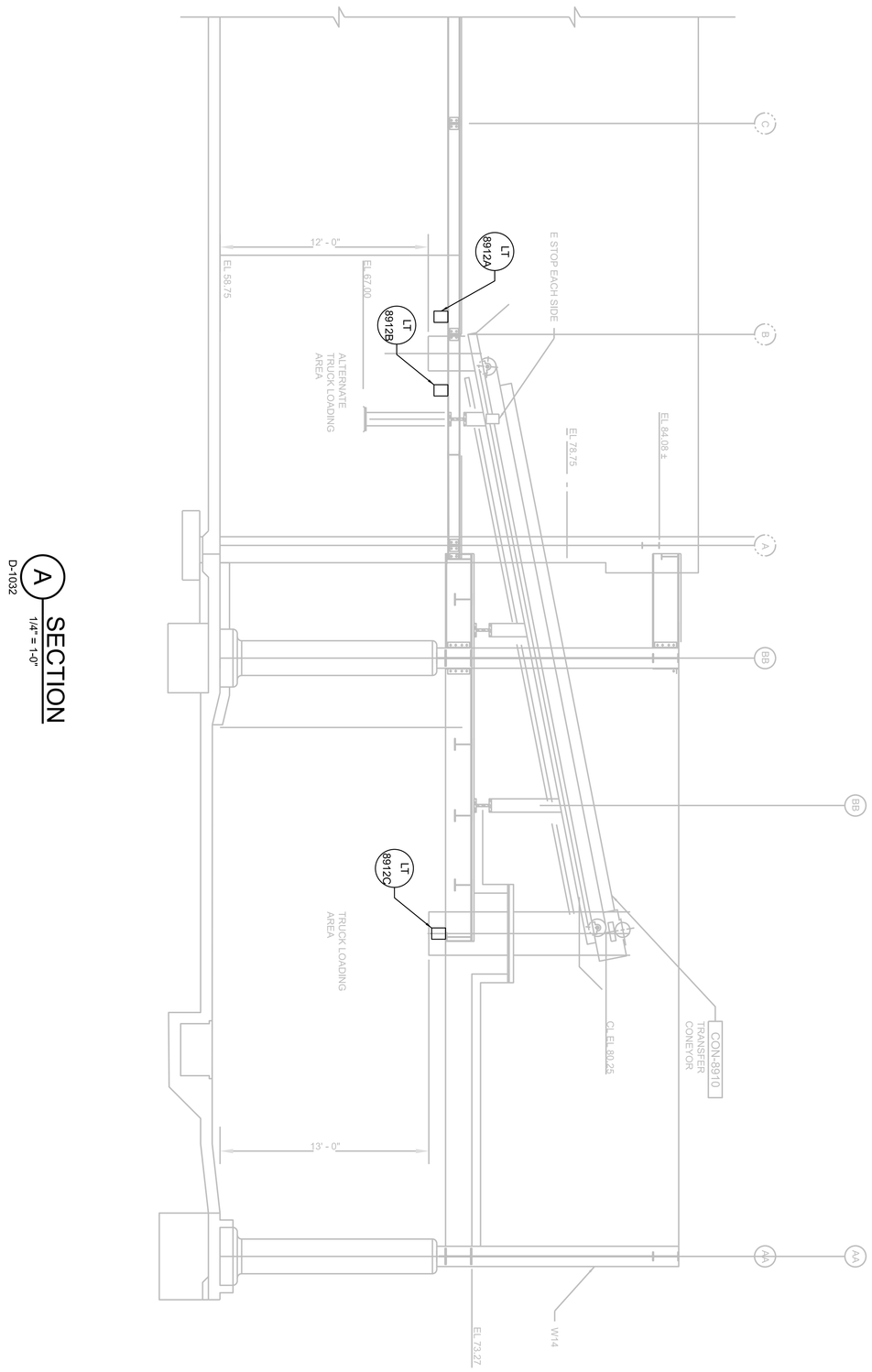

A SECTION
D-1032
1/4" = 1'-0"

Jacobs

CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - SOLIDS LOADING AREA SECTION

LOCATION:
IN THE CITY OF GRESHAM

SCALE	VERT: AS SHOWN
	HORIZ: AS SHOWN
DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047
LEGAL	

SECTION	TOWNSHIP	RANGE

REGISTERED PROFESSIONAL ENGINEER
54903PE
OREGON
Digital Signature
JULY 9, 2001
BRETT W. REISTAD
EXP. 12/31/26

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET
D-3032
82 OF 110

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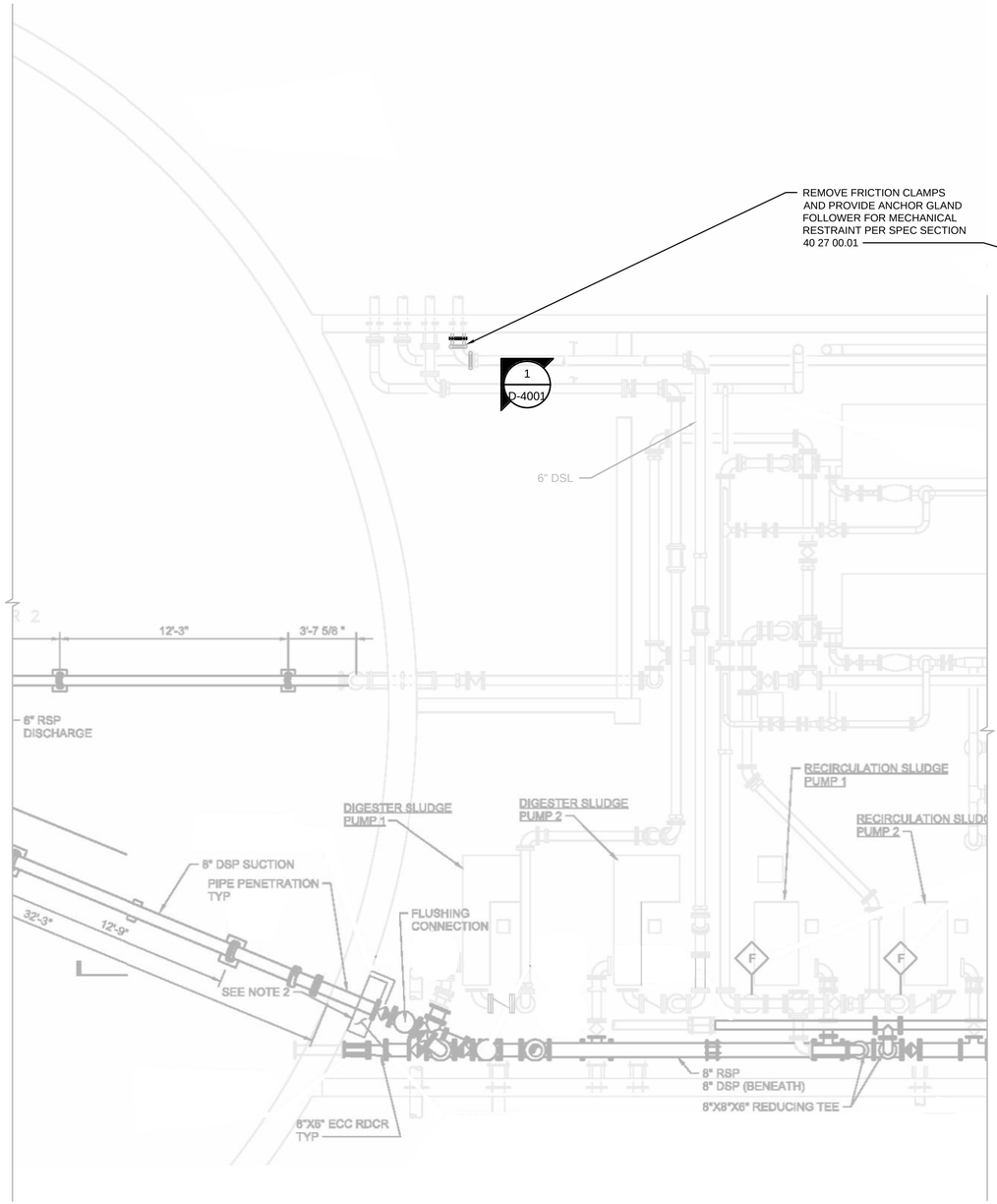

N

DIGESTER CONTROL BUILDING BASEMENT ENLARGED PLAN

1/4"=1'-0"

1 D-4001

PHOTO DETAIL

NTS

Jacobs

CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - DIGESTER CONTROL BUILDING BASEMENT ENLARGED PLAN

LOCATION: IN THE CITY OF GRESHAM

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SCALE	VERT:	AS SHOWN
	HORIZ:	AS SHOWN
DATE:	MARCH 2026	
PROJECT NO.:	CIPWW00047	
	LEGAL	
SECTION	TOWNSHIP	RANGE

REGISTERED PROFESSIONAL ENGINEER — OREGON — 91709PE — Digitally Signed — DAVID LEONARD TURNBEE — EXP: 12/31/27

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET D-4001

83 OF 110

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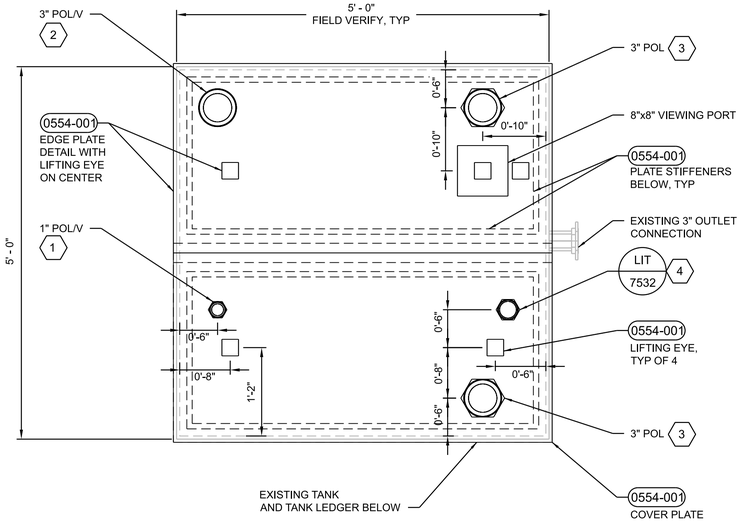
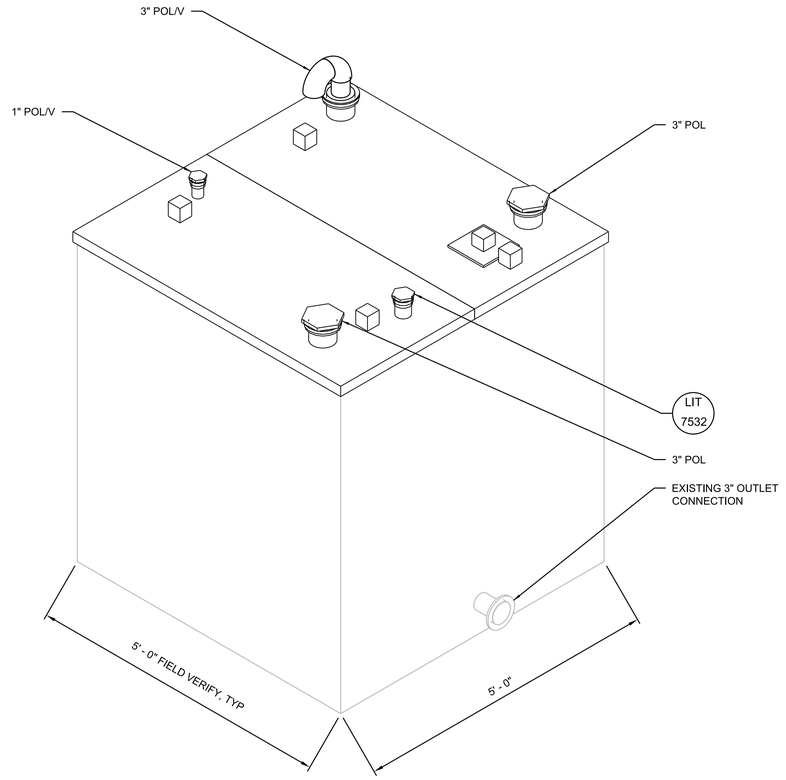
PLOT TIME: $PLOTTIME
PLOT DATE: $PLOTDATE
FILENAME: D-4001_D3838501



N

TYPICAL SST DEWATERING POLYMER TANK COVER PLAN

1"=1'-0"



1 D-3005

ISOMETRIC VIEW

NTS

GENERAL SHEET NOTES

1. TYPICAL SST TANK COVER PLAN AND ISOMETRIC SHOWN FOR THE FABRICATED COVER TO BE PLACED ON TOP OF THE 4 EXISTING SST POLYMER STORAGE TANKS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

SHEET KEYNOTES

1. INSTALL 1" THERMOPLASTIC BULKHEAD FITTINGS SHALL BE MANUFACTURED FROM PVC TYPE 1, GRADE 1 (ASTM D1784, CELL CLASSIFICATION 12454), EPDM GASKET. HAYWARD FLOW CONTROL OR APPROVED EQUAL. CAP FOR FUTURE DESICCANT CONNECTION.
2. INSTALL 3" THERMOPLASTIC BULKHEAD FITTINGS SHALL BE MANUFACTURED FROM PVC TYPE 1, GRADE 1 (ASTM D1784, CELL CLASSIFICATION 12454), EPDM GASKET. HAYWARD FLOW CONTROL OR APPROVED EQUAL. PROVIDE A LONG RADIUS ELBOW TO CREATE A GOOSENECK FOR VENTING. PROVIDE REMOVABLE SCREEN AT THE END OF THE VENT.
3. INSTALL 3" THERMOPLASTIC BULKHEAD FITTINGS SHALL BE MANUFACTURED FROM PVC TYPE 1, GRADE 1 (ASTM D1784, CELL CLASSIFICATION 12454), EPDM GASKET. HAYWARD FLOW CONTROL OR APPROVED EQUAL. PROVIDE A FLANGE TO CONNECT TO CONNECT THE 3" POL PIPE.
4. INSTALL 1 1/2" THERMOPLASTIC BULKHEAD FITTINGS SHALL BE MANUFACTURED FROM PVC TYPE 1,GRADE 1 (ASTM D1784, CELL CLASSIFICATION 12454), EPDM GASKET. HAYWARD FLOW CONTROL OR APPROVED EQUAL TO INSTALL THE LEVEL INSTRUMENT.
5. 3" THERMOPLASTIC BULKHEAD FITTINGS SHALL BE MANUFACTURED FROM PVC TYPE 1, GRADE 1 (ASTM D1784, CELL CLASSIFICATION 12454), EPDM GASKET. HAYWARD FLOW CONTROL OR APPROVED EQUAL. PROVIDE A FLANGE TO CONNECT THE 3" POL/D PIPE. ROUTE THE PIPE TO THE NEAREST FLOOR DRAIN.

DATE	NO.	REVISION	BY

DESIGNED: YC
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET D-5001
84 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 74011PE — Digitally Signed — ALAN GOTHARD — EXP: 12-31-27

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - SST DEWATERING POLYMER TANK PLAN AND ISOMETRIC VIEW

LOCATION: IN THE CITY OF GRESHAM

CITY OF GRESHAM
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

Jacobs

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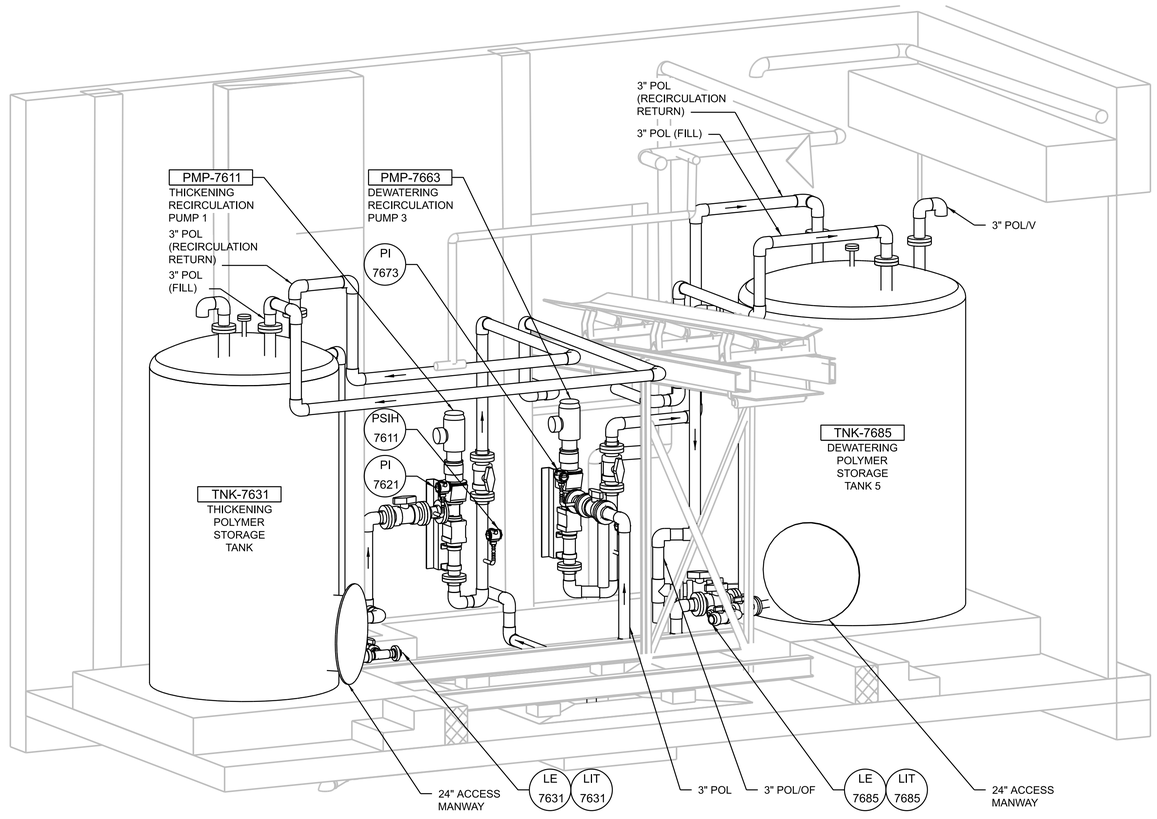
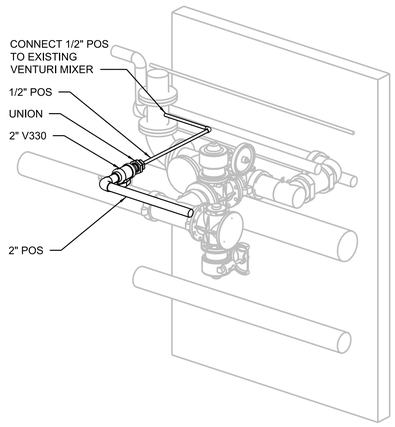
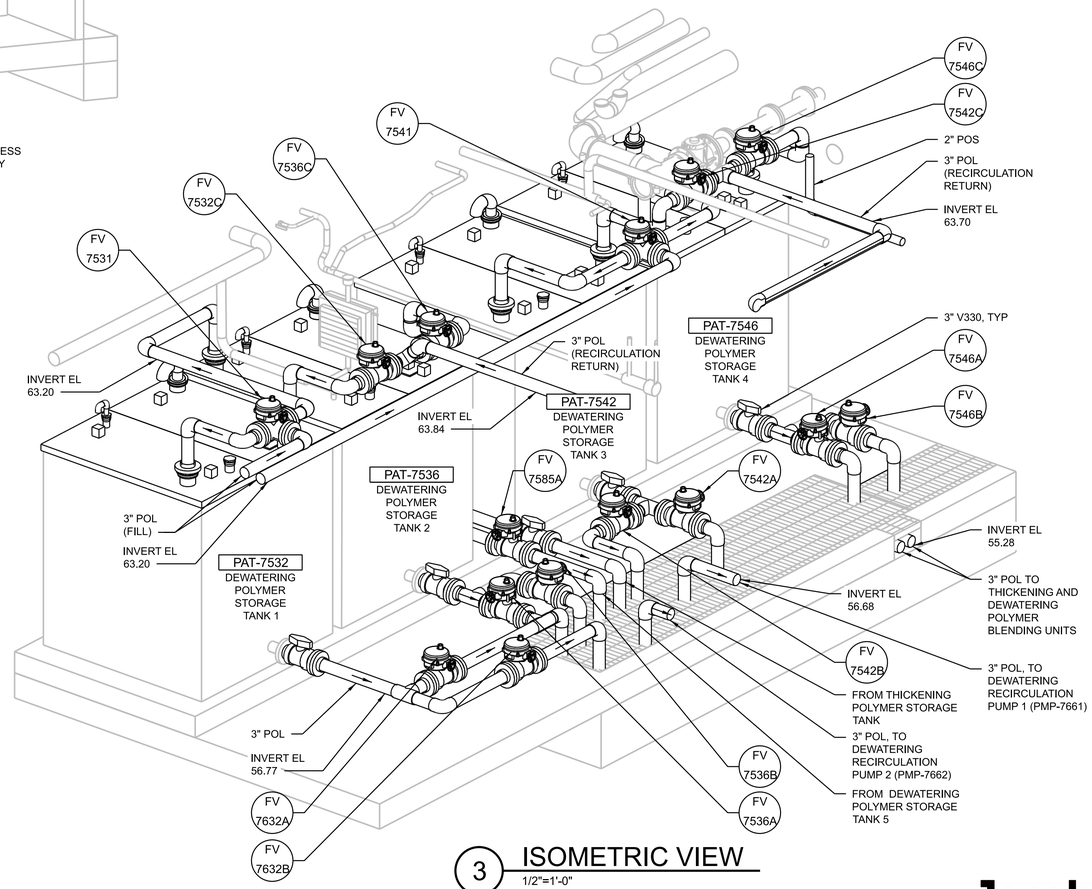
FILENAME: D-5001_D383503.dwg PLOT DATE: 27-FEB-2026 PLOT TIME: 03:00



1 ISOMETRIC VIEW
1/2"=1'-0"
D-1022



2 ISOMETRIC VIEW
1/2"=1'-0"
D-1023



3 ISOMETRIC VIEW
1/2"=1'-0"
D-1023

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET D-5002
85 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 74578PE — Digitally Signed — ALAN R. BARTHOLOMEW — RENEWAL: 12-31-27

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SCALE	VERT: AS SHOWN HORIZ: AS SHOWN
DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047
	LEGAL
SECTION	TOWNSHIP / RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - POLYMER SYSTEM - ISOMETRIC VIEWS

LOCATION: IN THE CITY OF GRESHAM

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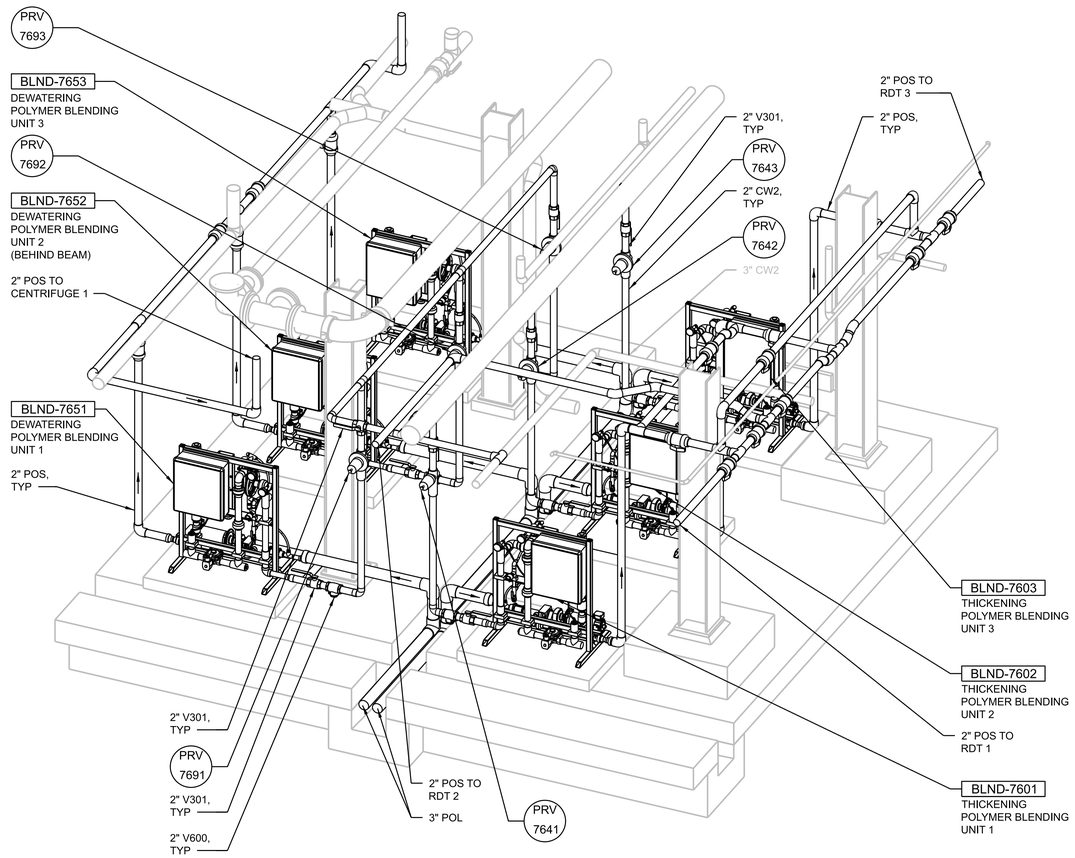
CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

FILENAME: D-5002_I3838501.dwg PLOT DATE: 2-MAR-2026 PLOT TIME: 11:06



4 ISOMETRIC VIEW
1/2"=1'-0"
D-1023

FILENAME: D-5003_03838501.dwg PLOT DATE: 25-FEB-2026 PLOT TIME: 01:33

Jacobs

CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: PROCESS MECHANICAL - POLYMER BLENDING UNITS - ISOMETRIC VIEWS

LOCATION: IN THE CITY OF GRESHAM

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	HORIZ: AS SHOWN
DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047
	LEGAL
SECTION	TOWNSHIP / RANGE

PROFESSIONAL ENGINEER — OREGON — 74311PE — Digitally Signed — ALAN G. THANOS — EXP. 12-31-27

DATE	NO.	REVISION	BY

DESIGNED: ZN
DRAWN: MT
CHECKED: BR
APPROVED: HL

SHEET D-5003

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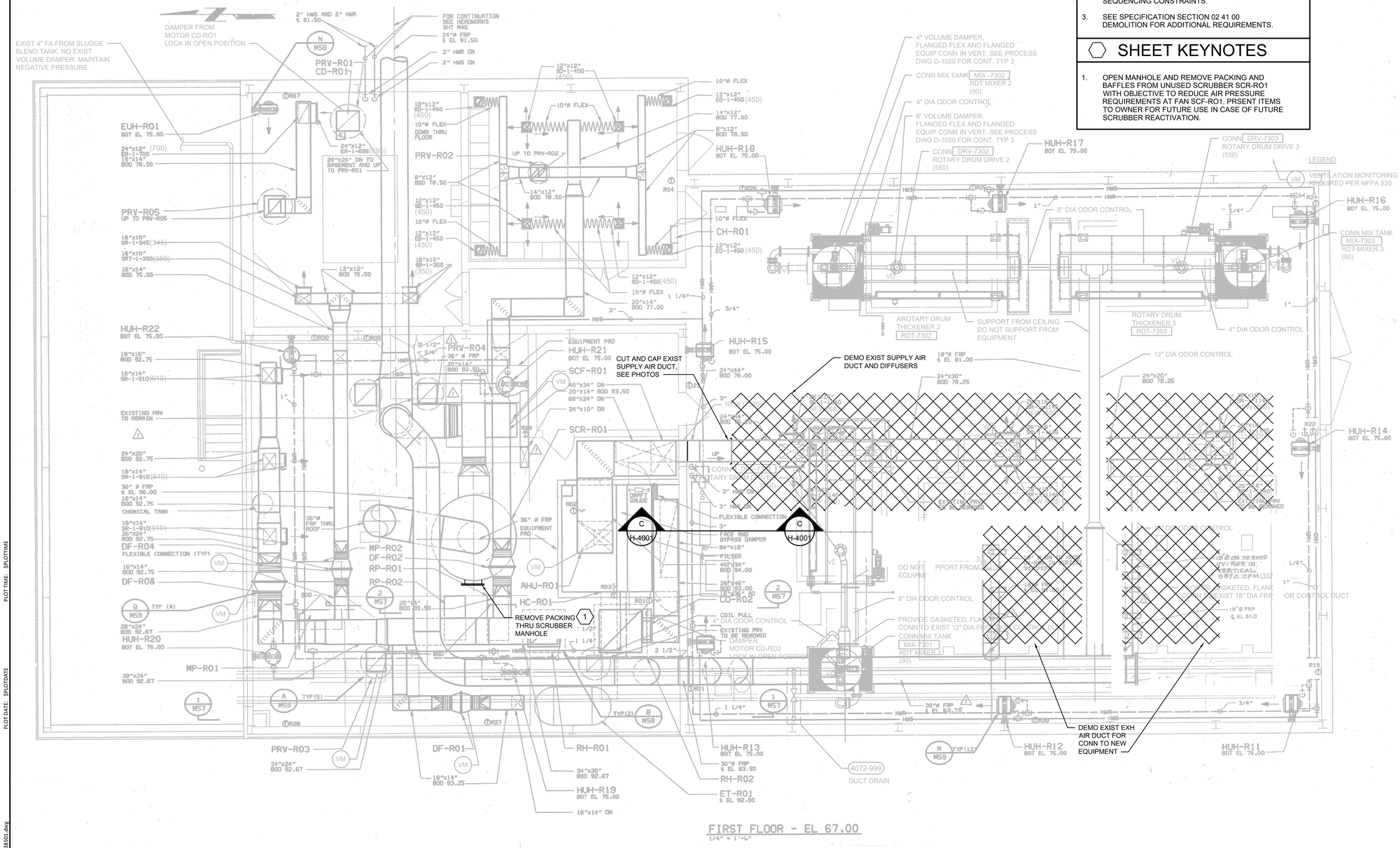
GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.

SHEET KEYNOTES

1. OPEN MANHOLE AND REMOVE PACKING AND BAFFLES FROM UNUSED SCRUBBER SCR-RO1 WITH OBJECTIVE TO REDUCE AIR PRESSURE REQUIREMENTS AT FAN SCF-RO1. PRSENT ITEMS TO OWNER FOR FUTURE USE IN CASE OF FUTURE SCRUBBER REACTIVATION.



FIRST FLOOR - EL 67.00
1/4" = 1'-0"

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

Jacobs

CITY OF GRESHAM
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: HVAC - DEMOLITION GROUND FLOOR PLAN
LOCATION: IN THE CITY OF GRESHAM

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DATE	NO.	REVISION	BY

DESIGNED: JS
DRAWN: PF
CHECKED: MD
APPROVED: HL

SHEET HX-1020
87 OF 110

REGISTERED PROFESSIONAL ENGINEER OREGON JULY 26, 2005 JAMES H. SAKATA 14586

Digital Signature

EXP. 06-30-26

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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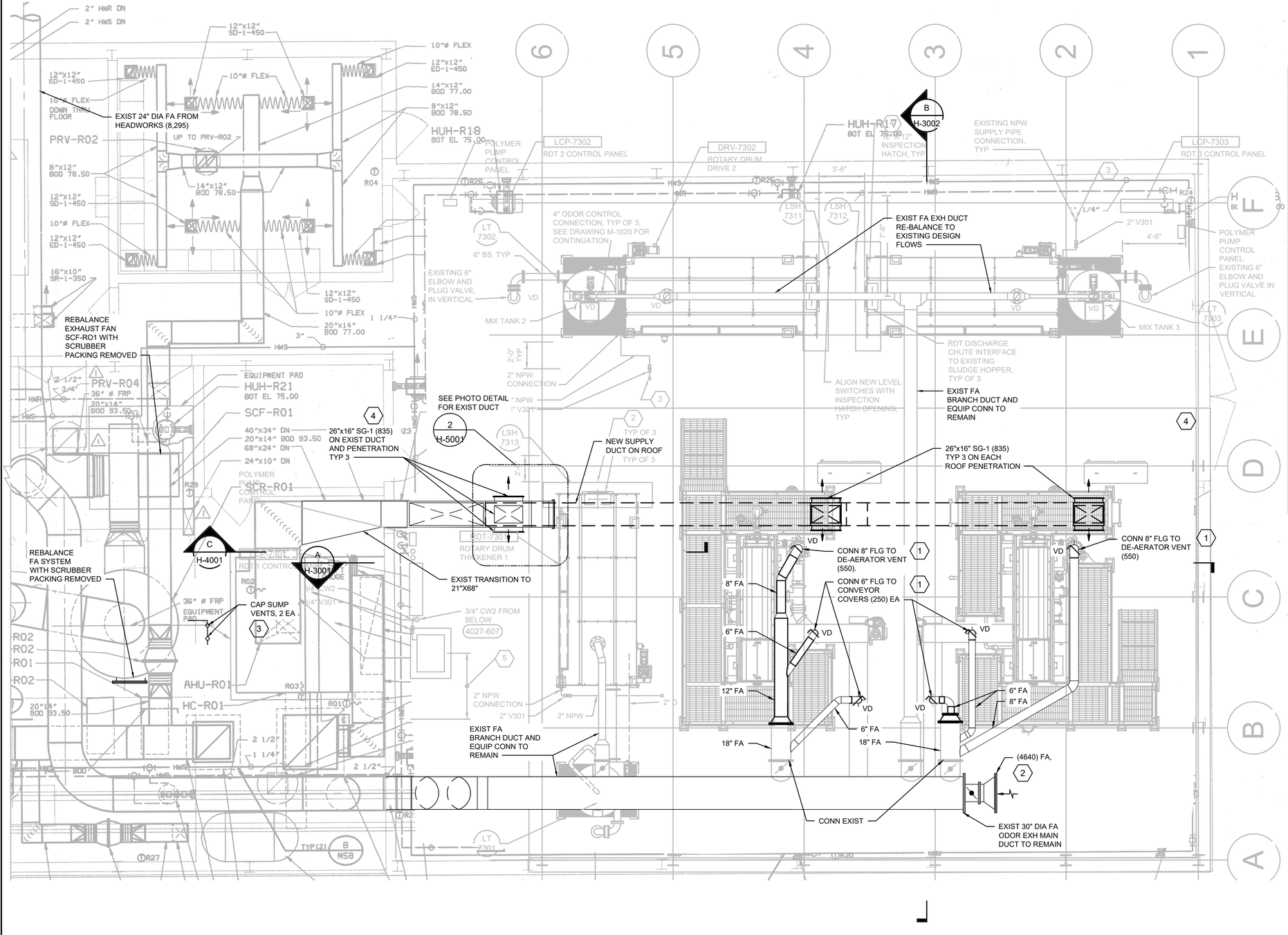
PLOT TIME: $PLOTTIME
PLOT DATE: $PLOTDATE
FILENAME: HX-1020_D3838301.dwg



GENERAL SHEET NOTES

1. SLOPE FRP DUCTS TO DRAIN. PROVIDE DRAINS AT LOW POINTS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.
4. BALANCE HVAC AND ODOR AIR FLOWS ON EXIST AND NEW EQUIPMENT WHERE SHOWN.
5. AIR FLOW RATES NOT INDICATED HERE SHALL BE BALANCED AS SHOWN ON GBT REPLACEMENT PROJECT HVAC PLAN AND SCHEMATIC DRAWINGS. D.E.S. PROJECT NUMBER CIPWW0028
6. INSTALL FA DUCT LEVEL OR SLOPE TO DUCT DRAIN. DO NOT CREATE LOW SPOTS IN DUCT.

SHEET KEYNOTES

1. FLANGED GASKETED CONNECTION WITH 2 DUCT DIAMETER FLEX CONNECTION, QUICK DISCONNECT FITTING, AND LINE SIZE BUTTERFLY VALVE FOR BALANCING. SEE SPEC SECTION 23 31 16.16 "THERMOSET FIBERGLASS REINFORCED PLASTIC DUCTS AND ACCESSORIES".
2. PROVIDE 18" DIA FA TAP IN BLIND FLANGE W/18" DIA DAMPER, INCREASE TO 24" DIA W/REINFORCED STAINLESS 4X4 MESH INLET SCREEN.
3. PROVIDE REMOVABLE CAPS ON EXISTING SCRUBBER 2" SUMP VENT AND INSTRUMENT WELL. FERNCO OR EQUAL.
4. ADD SIGN NUMBER S-2 "CAUTION EAR PROTECTION REQUIRED" AT EACH ENTRY TO THE ROOM, TYP SEE SPEC SECTION 10 14 00 "SIGNAGE".

GROUND FLOOR PLAN

1/4"=1'-0"

Jacobs

CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

DATE	NO.	REVISION	BY

DESIGNED: JS
DRAWN: PF
CHECKED: MD
APPROVED: HL

SHEET H-1020
88 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 14586 — JULY 16, 1982 — JAMES H. SAKAI

Digital Signature

EXP: 06-30-26

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW0047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: HVAC - GROUND FLOOR PLAN
LOCATION: IN THE CITY OF GRESHAM

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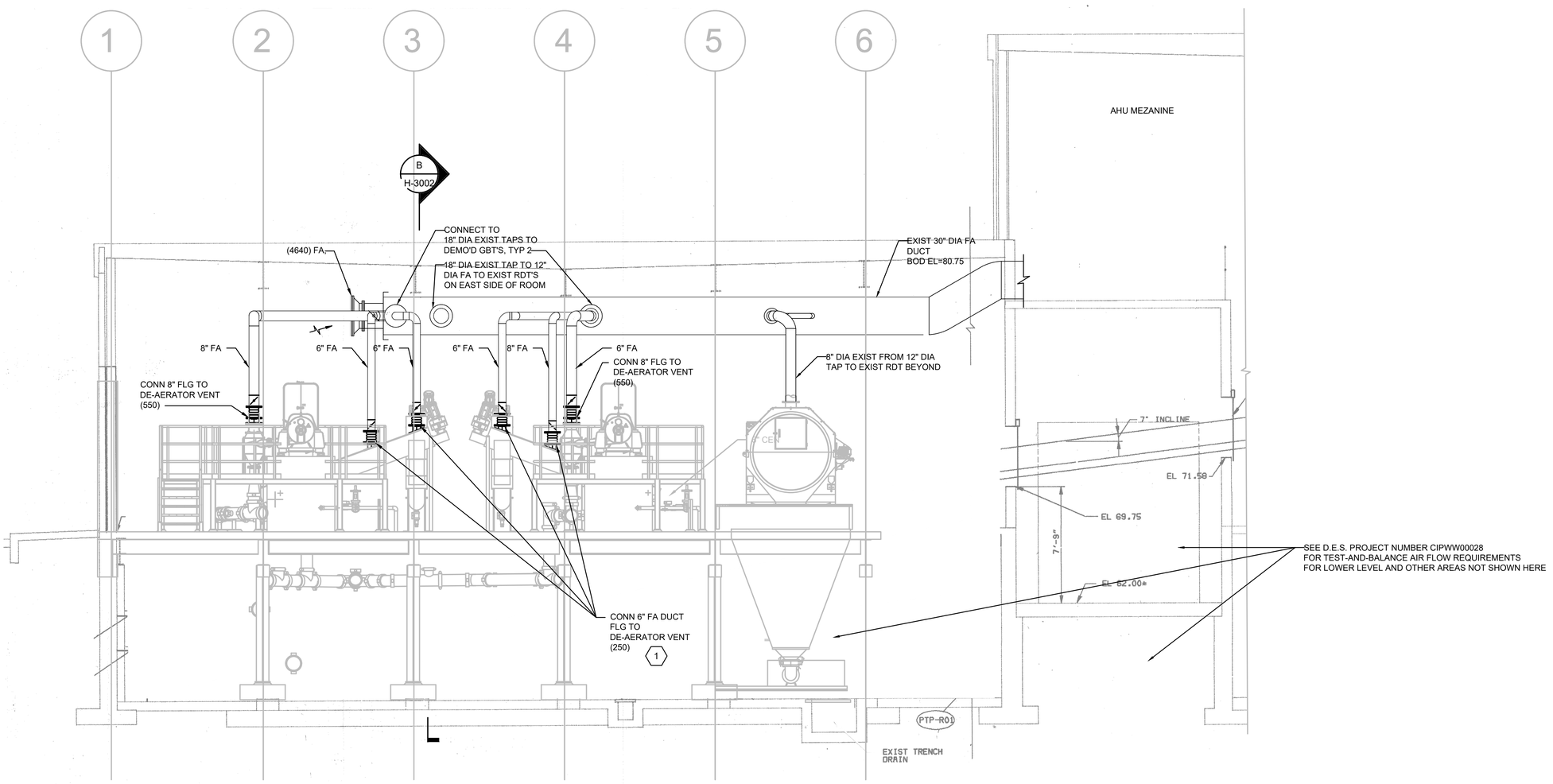
PLOT TIME: $PLOTTIME
PLOT DATE: $PLOTDATE
FILENAME: H-1020_03838301.dwg

SHEET KEYNOTES

1. FLANGED GASKETED CONNECTION WITH 2 DUCT DIAMETER FLEX CONNECTION, QUICK DISCONNECT FITTING, AND LINE SIZE BUTTERFLY VALVE FOR BALANCING. SEE SPEC SECTION 23 31 16.16 "THERMOSET FIBERGLASS REINFORCED PLASTIC DUCTS AND ACCESSORIES".



A SECTION
1/4"=1'-0"
H-1020

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: JS
DRAWN: PF
CHECKED: MD
APPROVED: HL

SHEET H-3001
89 OF 110

REGISTERED PROFESSIONAL ENGINEER — JAMES H. SAKAMOTO — 14586 — Digital Signature — OREGON — JULY 26, 2005 — EXP: 06-30-26

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SCALE	
VERT:	AS SHOWN
HORIZ:	AS SHOWN
DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047
LEGAL	
SECTION	TOWNSHIP / RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: HVAC - SOLIDS BUILDING SECTION

LOCATION: IN THE CITY OF GRESHAM

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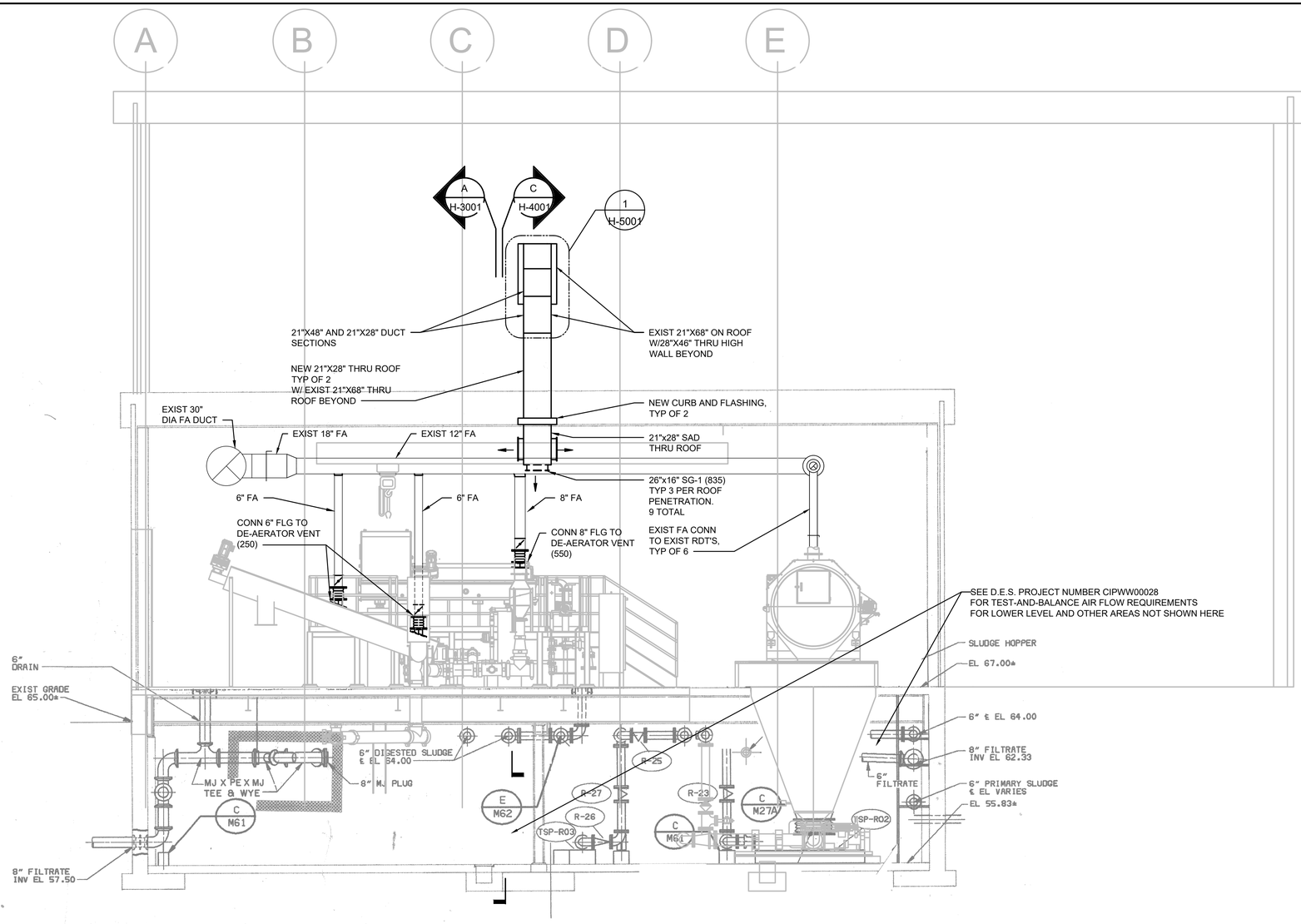
CITY OF GRESHAM
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

FILENAME: H-3001_D3838031.dwg PLOT DATE: $PLOTDATE PLOT TIME: $PLOTTIME



B SECTION
1/4"=1'-0"
H-1020

DATE	NO.	REVISION	BY

REGISTERED PROFESSIONAL ENGINEER — OREGON — 14586 — JAMES H. SACKETT — EXP: 06-30-26

Digital Signature

DESIGNED: JS
DRAWN: PF
CHECKED: MD
APPROVED: HL

SHEET H-3002
90 OF 110

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SCALE VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: HVAC - CENTRIFUGE SECTION

LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM

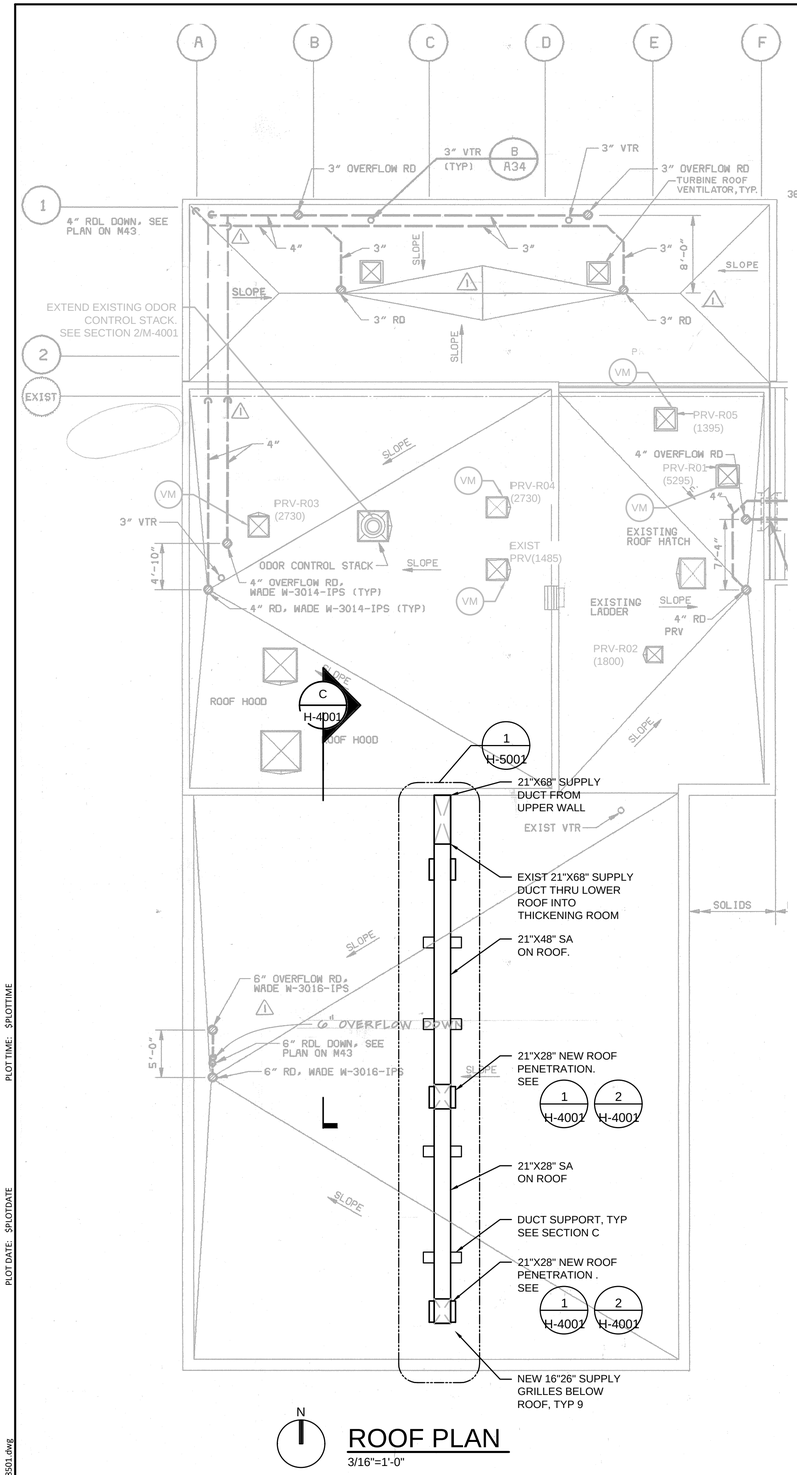
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

Jacobs

FILENAME: H-3002_D3838501.dwg PLOT DATE: $PLOTDATE PLOT TIME: $PLOTTIME

GENERAL SHEET NOTES

1. BALANCE HVAC AND ODOR AIR FLOWS ON EXIST AND NEW EQUIPMENT AS SHOWN.
2. NEW SUPPLY DUCTS ARE INTERNALLY INSULATED. INDICATED DIMENSIONS ARE FREE INTERNAL AREA.



ROOF PLAN
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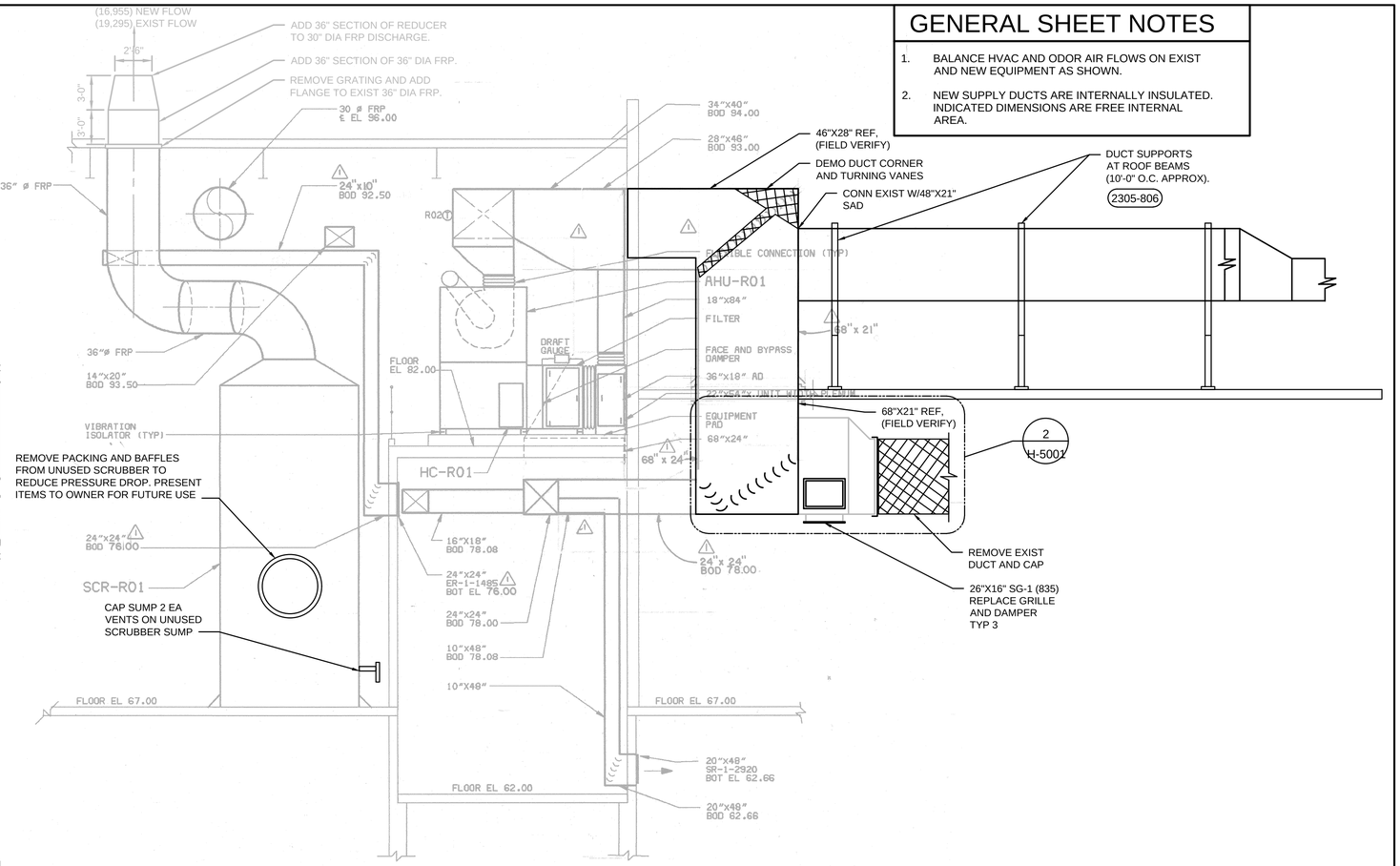
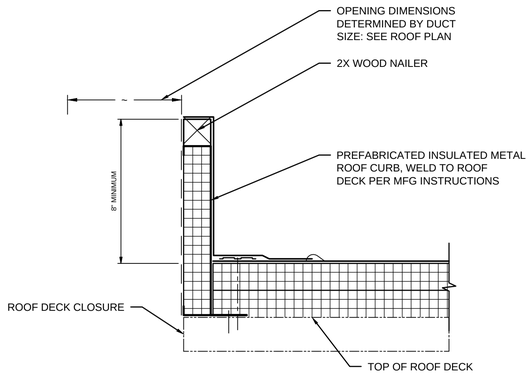


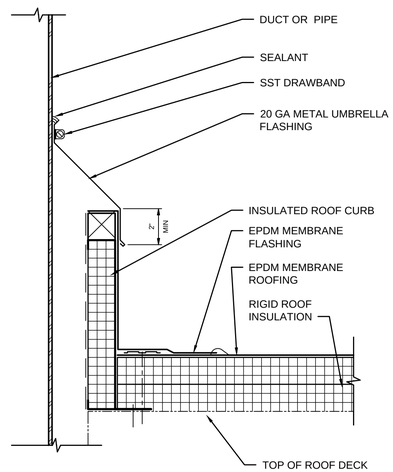
C SECTION
1/4"=1'-0"

HX-1020
H-1020
H-3002



1 PREFABRICATED ROOF CURB DETAIL
NTS

H-4001



2 DUCT PENETRATION DETAIL
NTS

H-4001

Jacobs

NO.	DATE	REVISION	BY

SHEET H-4001 91 OF 110

DESIGNED: JS/SM
DRAWN: PF
CHECKED: MDJR
APPROVED: HL

REGISTERED PROFESSIONAL ENGINEER — OREGON — JULY 26, 2005 — JAMES H. SACKETT

Digital Signature

EXP: 06-30-26

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: HVAC - PARTIAL ROOF PLAN AND SECTION
LOCATION:

IN THE CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

CITY OF GRESHAM

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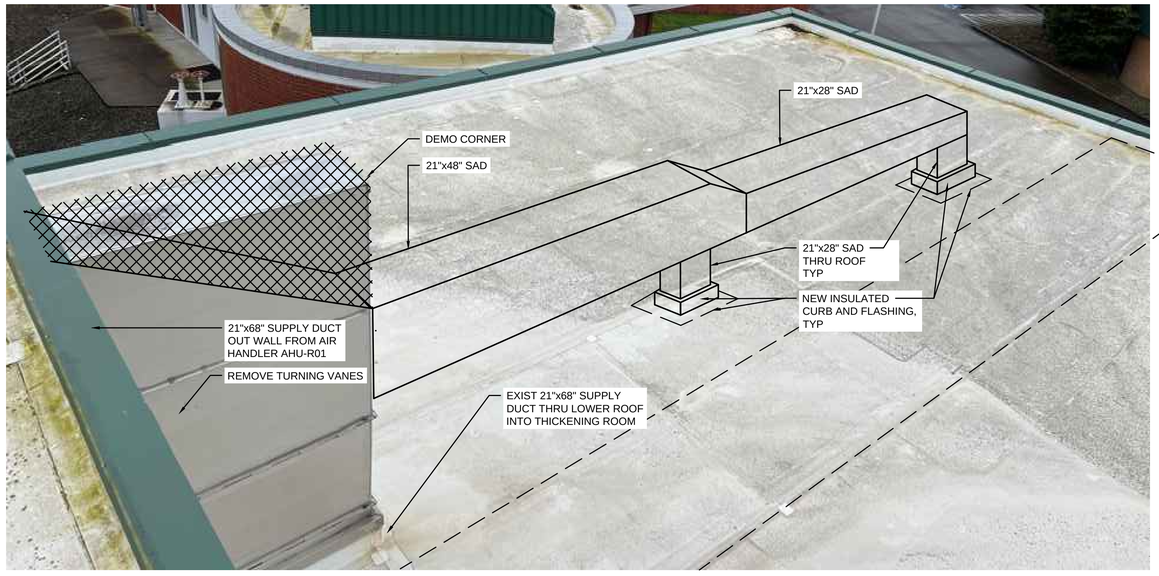
PLOT TIME: $PLOTTIME
PLOT DATE: $PLOTDATE
FILENAME: H-4001_D3838501.dwg

GENERAL SHEET NOTES

1. SOME EXISTING DUCT DIMENSIONS ARE ESTIMATED. FIELD VERIFY PRIOR TO FABRICATION OF CONNECTING DUCTWORK.



SEE DWG H-4001 FOR ADDITIONAL DETAIL

1 PHOTO DETAIL
NTS
H-4001

SEE DWG H-4001 FOR ADDITIONAL DETAIL

2 PHOTO DETAIL
NTS
H-1020
H-4001

Jacobs

DATE	NO.	REVISION	BY

REGISTERED PROFESSIONAL ENGINEER — OREGON — JULY 26, 2005 — JAMES H. SACKMAN — 14586

Digital Signature

EXP: 06-30-26

DESIGNED: JS/SM
DRAWN: PF
CHECKED: MD/JR
APPROVED: HL

SHEET H-5001 92 OF 110

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SCALE VERT: AS SHOWN
HORIZ: AS SHOWN

DATE: MARCH 2026

PROJECT NO.: CIPWW00047

LEGAL
SECTION | TOWNSHIP | RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: HVAC - PHOTO DETAILS

LOCATION: IN THE CITY OF GRESHAM

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GRESHAM, OREGON 97030-3813
503-618-2525

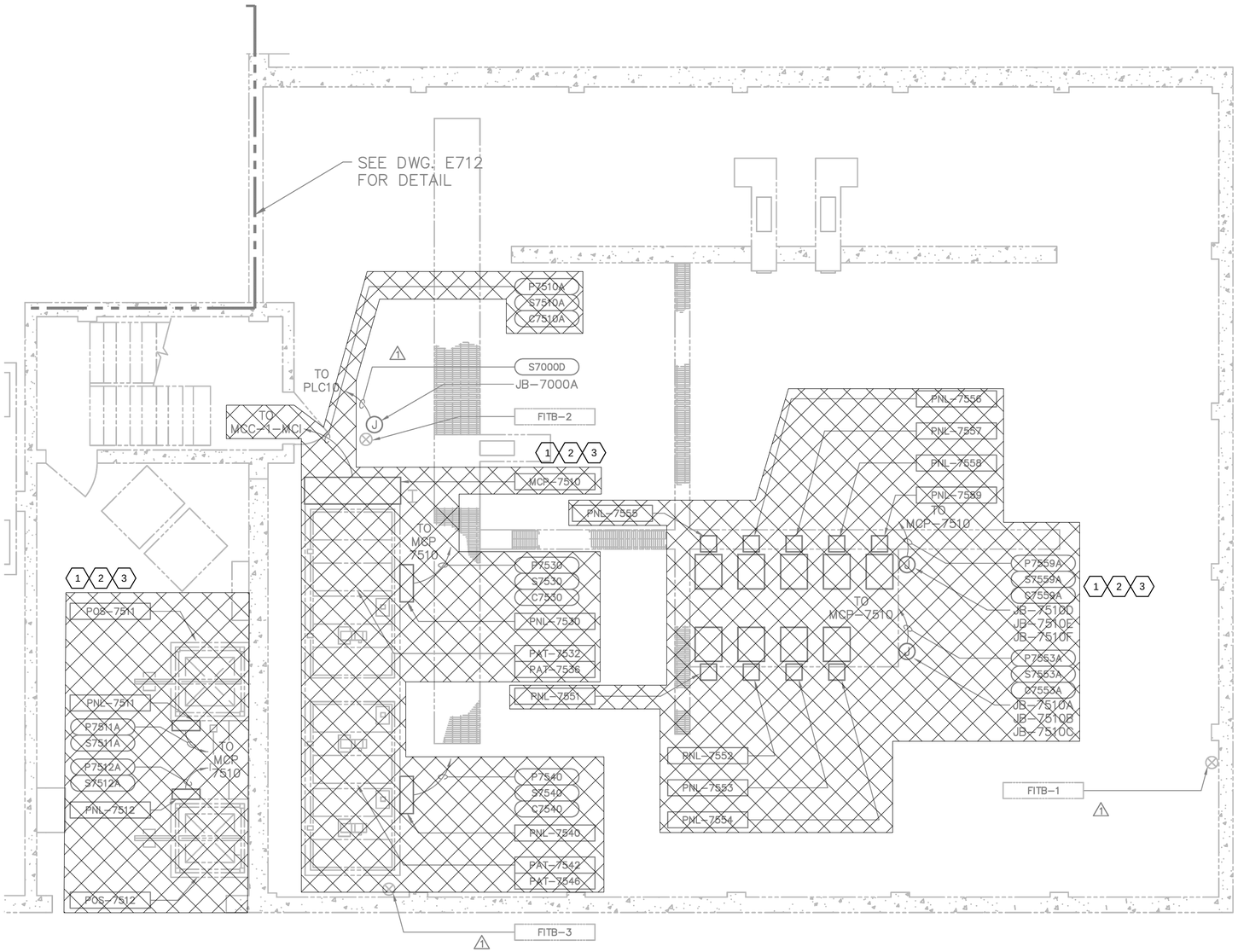
PLOT TIME: $PLOTTIME
PLOT DATE: $PLOTDATE
FILENAME: H-5001_03838501.dwg

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.
4. TREAT CUT ANCHORS AND EMBEDS PER DETAIL 0330-143.

SHEET KEYNOTES

1. DEMOLISH BRANCH CONDUCTORS AND FIELD WIRING SERVING THE POLYMER FEED PUMPS, POLYMER AGE TANKS, POLYMER PREP SYSTEM AND ASSOCIATED CONTROL PANELS.
2. DEMOLISH ANY EXPOSED CONDUITS SERVING THE POLYMER FEED PUMPS, POLYMER AGE TANKS, POLYMER PREP SYSTEM AND CONTROL PANELS. CAP CONDUITS FOR FUTURE USE AT TRANSITION TO CONCEALED.
3. DEMOLISH POLYMER FEED PUMP MOTORS, POLYMER FEED PUMP CONTROL PANELS, POLYMER AGE TANK CONTROL PANELS, POLYMER PREP SYSTEM AND MAIN CONTROL PANEL.



N

DEMOLITION BASEMENT PROCESS PLAN
1/4" = 1'-0"

Jacobs

CITY OF GRESHAM
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

DATE	NO.	REVISION	BY

DESIGNED: JH
DRAWN: CM
CHECKED: RH
APPROVED: HL

SHEET EX-1010
93 OF 110

REGISTERED PROFESSIONAL ENGINEER — JACOB HELLER — 19482PE — Digital Signature — OREGON — EXP: 06/30/27

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: ELECTRICAL - DEMOLITION BASEMENT PROCESS PLAN
LOCATION: IN THE CITY OF GRESHAM

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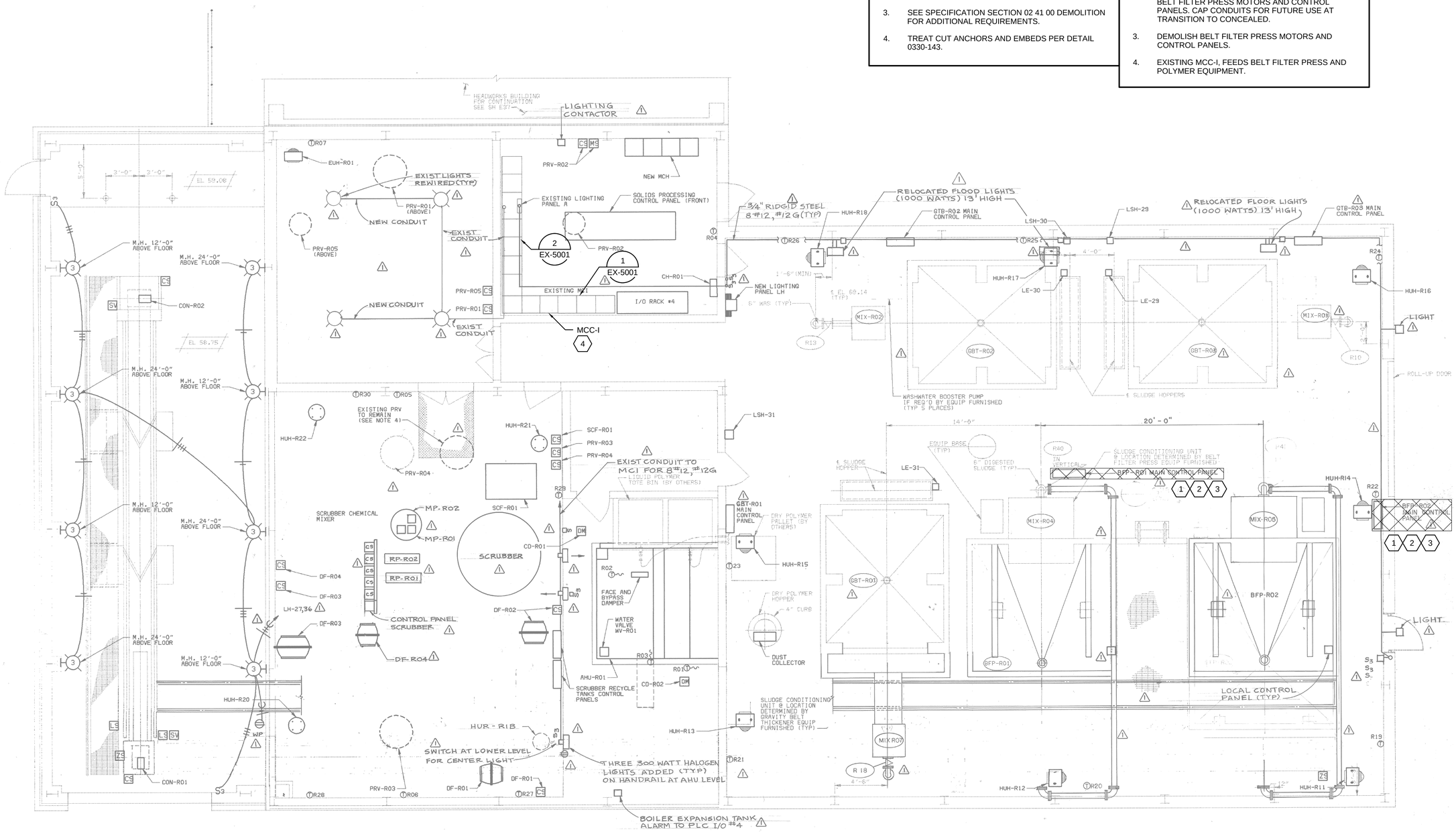
FILENAME: EX-1010_D3838501.dwg PLOT DATE: $PLOTDATE PLOT TIME: $PLOTTIME

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.
4. TREAT CUT ANCHORS AND EMBEDS PER DETAIL 0330-143.

SHEET KEYNOTES

1. DEMOLISH BRANCH CONDUCTORS AND FIELD WIRING SERVING THE BELT FILTER PRESS (BFP) MOTORS AND CONTROL PANELS.
2. DEMOLISH ANY EXPOSED CONDUITS SERVING THE BELT FILTER PRESS MOTORS AND CONTROL PANELS. CAP CONDUITS FOR FUTURE USE AT TRANSITION TO CONCEALED.
3. DEMOLISH BELT FILTER PRESS MOTORS AND CONTROL PANELS.
4. EXISTING MCC-I, FEEDS BELT FILTER PRESS AND POLYMER EQUIPMENT.



N

DEMOLITION GROUND FLOOR PROCESS PLAN

1/4" = 1'-0"

Jacobs

CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

IN THE CITY OF GRESHAM

PROCESS PLAN

SCALE	VERT: AS SHOWN
	HORIZ: AS SHOWN
DATE:	MARCH 2026
PROJECT NO.:	CIPWW00047
	LEGAL
SECTION	TOWNSHIP / RANGE

DATE	NO.	REVISION	BY

DESIGNED: JH
DRAWN: CM
CHECKED: RH
APPROVED: HL

SHEET EX-1020

94 OF 110

REGISTERED PROFESSIONAL ENGINEER — JACOB HELT — 15482PE — Digital Signature — OREGON — EXP: 06/30/27

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PLOT TIME: $PLOTTIME
PLOT DATE: $PLOTDATE
FILENAME: EX-1020_D3838501.dwg

SHEET KEYNOTES

1. BELT FILTER PRESS 1 LCP, BFP-R01.
2. BELT FILTER PRESS 2 LCP, BFP-R02.
3. POLYMER PACKAGE MAIN CONTROL PANEL, MCP-7510. DEMO EXPOSED CONDUIT AND WIRE BACK TO SOURCE, AND LEAVE MCC BUCKET AS A SPARE. REPLACE BUCKET LABEL WITH NAMEPLATE READING, "SPARE".
4. SPARE OR PREPARED SPACE TO BE REMOVED IN PREOPORATION FOR NEW MCC UNIT.

PHOTO DETAIL 1
MCC-I SECTIONS 8 -13 - DEMO

PHOTO DETAIL 2
MCC-I SECTIONS 1 -7 - DEMO

Jacobs

DATE	NO.	REVISION	BY

DESIGNED: JD | SHEET
DRAWN: CM | EX-5001
CHECKED: RH | 95 OF 110
APPROVED: HL

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REGISTERED PROFESSIONAL ENGINEER — OREGON — 104525PE — Digital Signature — JACOB HELT — EXP: 06/30/27

SCALE | VERT: AS SHOWN | HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION | TOWNSHIP | RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: ELECTRICAL - DEMOLITION MCC DETAILS

LOCATION: IN THE CITY OF GRESHAM

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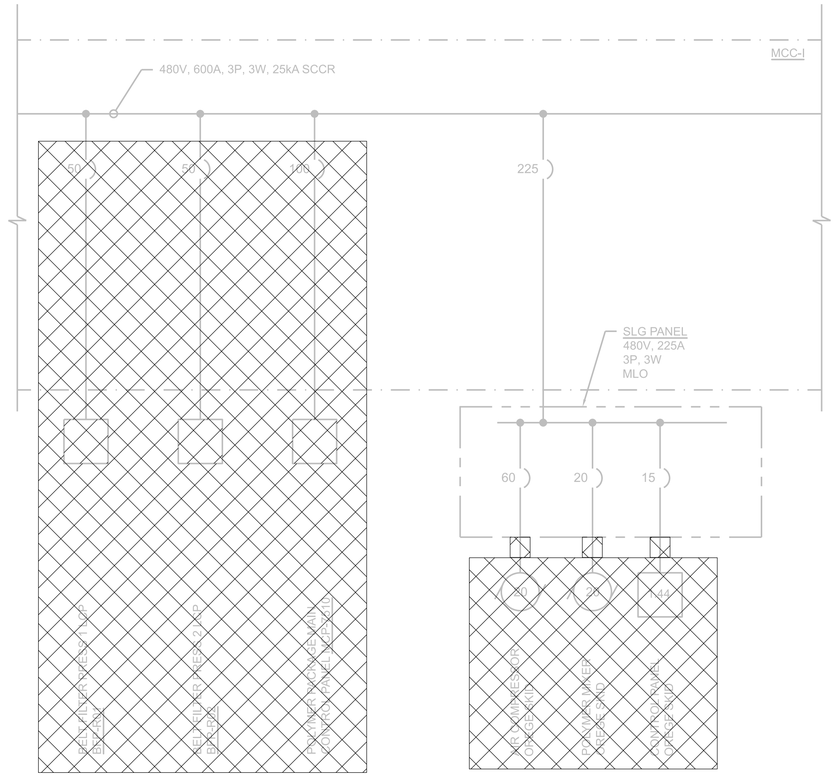
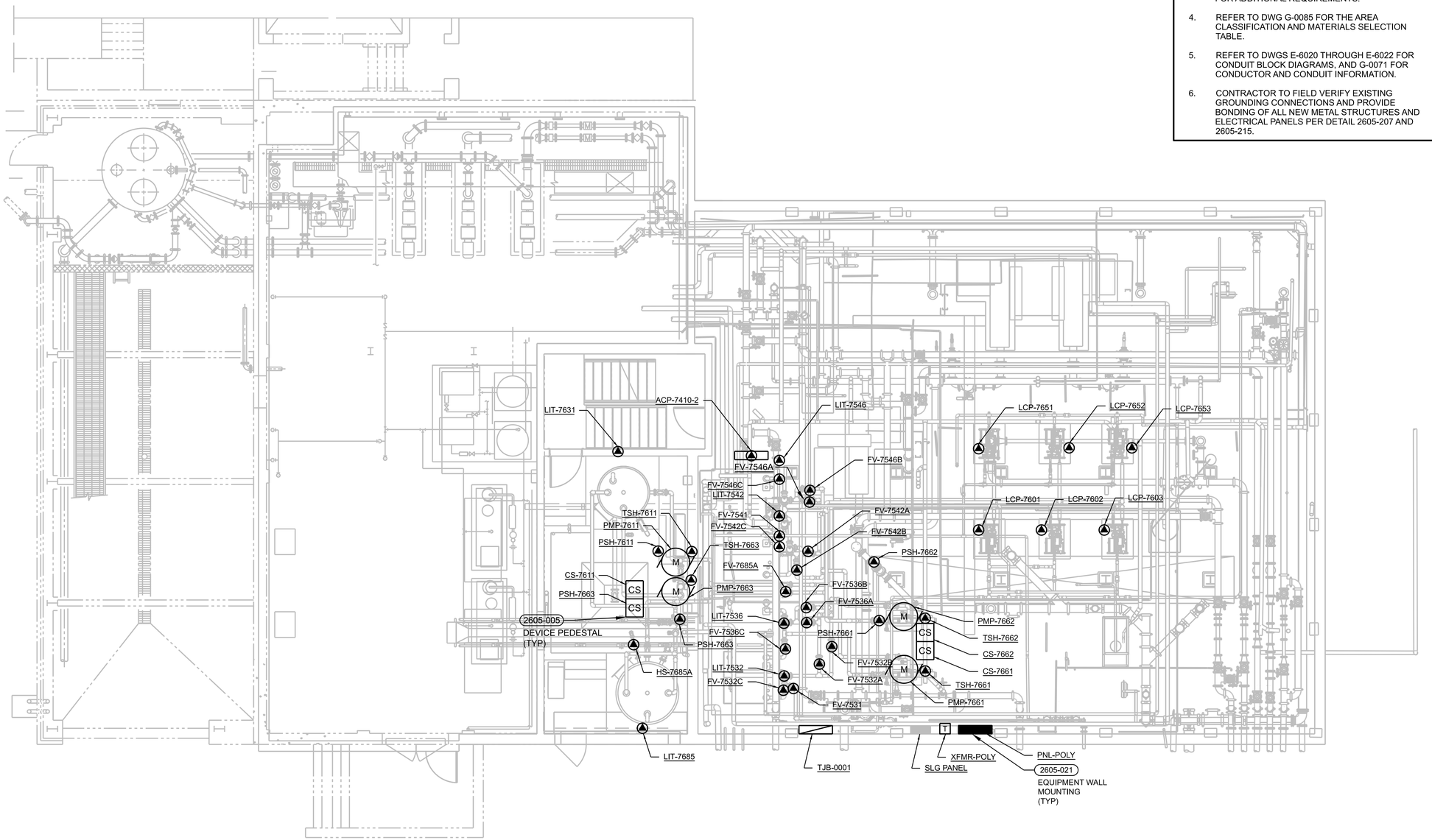
GRESHAM, OREGON 97030-3813
503-618-2525

FILENAME: EX-5001_D3838501.dwg PLOT DATE: 27-FEB-2026 PLOT TIME: 13:15


MCC-I
480V, 600A, 3P, 3W, 25kA SCCR
50
50
100
225
SLG PANEL
480V, 225A
3P, 3W
MLO
60
20
15
SPARE
SPARE
SPARE
SPACE
SPACE
SPAC

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.
4. REFER TO DWG G-0085 FOR THE AREA CLASSIFICATION AND MATERIALS SELECTION TABLE.
5. REFER TO DWGS E-6020 THROUGH E-6022 FOR CONDUIT BLOCK DIAGRAMS, AND G-0071 FOR CONDUCTOR AND CONDUIT INFORMATION.
6. CONTRACTOR TO FIELD VERIFY EXISTING GROUNDING CONNECTIONS AND PROVIDE BONDING OF ALL NEW METAL STRUCTURES AND ELECTRICAL PANELS PER DETAIL 2605-207 AND 2605-215.



N

BASEMENT PROCESS PLAN

3/16"=1'-0"

Jacobs

NO.	DATE	REVISION	BY

DESIGNED: JD
DRAWN: CM
CHECKED: RH
APPROVED: HL

SHEET E-1010 97 OF 110

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REGISTERED PROFESSIONAL ENGINEER — 19482PE — OREGON — JACOB HELLMAN — Digital Signature — EXP: 06/30/27

SCALE VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047

LEGAL
SECTION TOWNSHIP RANGE

PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: ELECTRICAL - BASEMENT PROCESS PLAN

LOCATION: IN THE CITY OF GRESHAM

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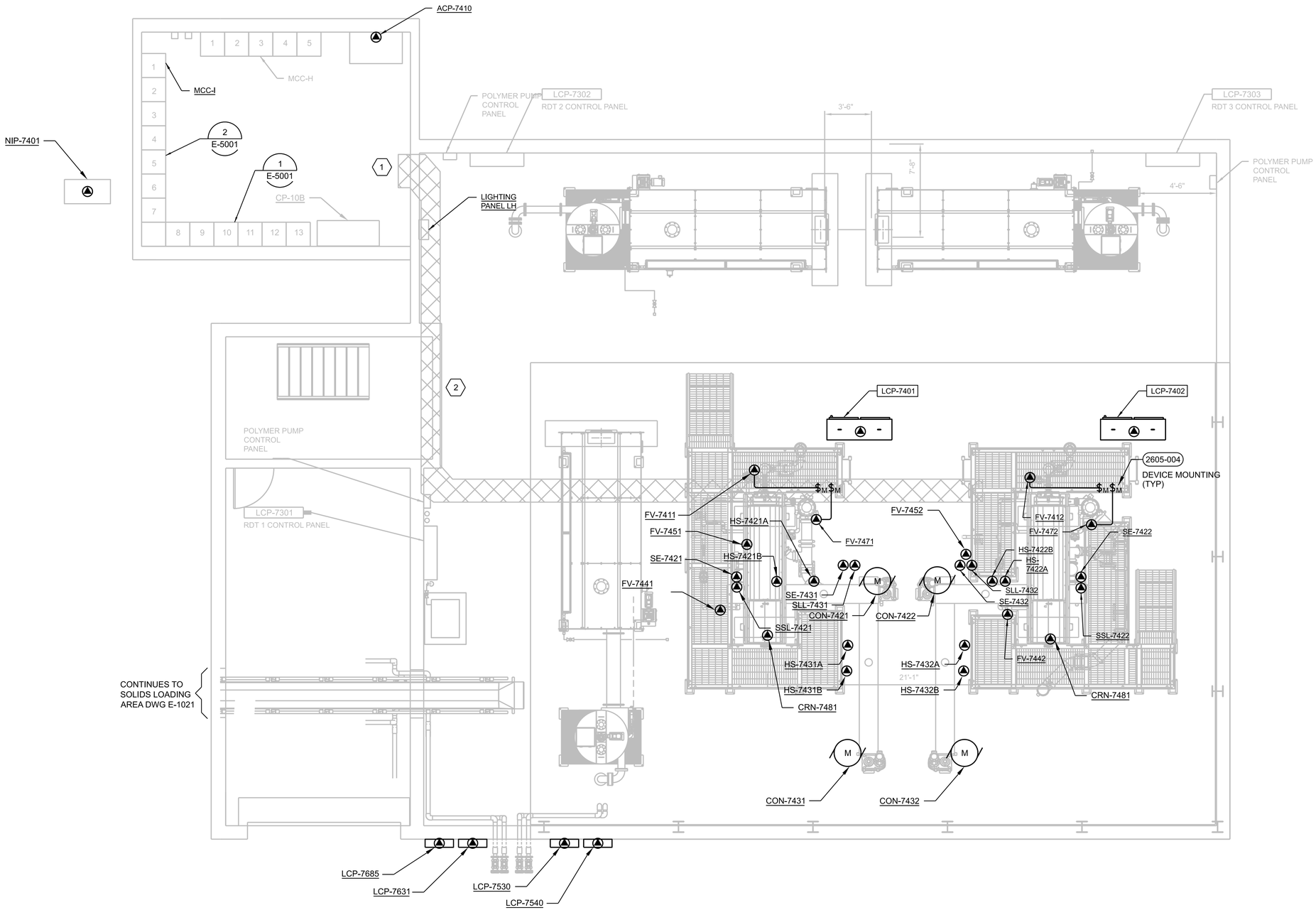
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EIGHTH AVENUE
GRESHAM, OREGON 97030
503-618-2676

PLOT TIME: 13:16
PLOT DATE: 27-FEB-2026
FILENAME: E-1010_D3838501.dwg



GROUND FLOOR PROCESS PLAN

1/4"=1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.
4. REFER TO DWG G-0085 FOR THE AREA CLASSIFICATION AND MATERIALS SELECTION TABLE.
5. REFER TO DWGS E-6020 THROUGH E-6022 FOR CONDUIT BLOCK DIAGRAMS, AND G-0071 FOR CONDUCTOR AND CONDUIT INFORMATION.
6. CONTRACTOR TO FIELD VERIFY EXISTING GROUNDING CONNECTIONS AND PROVIDE BONDING OF ALL NEW METAL STRUCTURES AND ELECTRICAL PANELS PER DETAIL 2605-207 AND 2605-215.

SHEET KEYNOTES

1. ROUTE NEW CONDUITS ABOVE THE MCC THROUGH THE FALSE CEILING.
2. WITHIN THE PROCESS AREAS, UTILIZE THE EXISTING RACEWAY'S PATH TO ROUTE NEW CONDUITS, WHERE FEASIBLE.

DATE	NO.	REVISION	BY

DESIGNED: JH
DRAWN: CM
CHECKED: HR
APPROVED: HL

SHEET E-1020 98 OF 110

REGISTERED PROFESSIONAL ENGINEER — JACOB HELTZEL — 19482PE — OREGON — Digital Signature — EXP: 06/30/27

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DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: ELECTRICAL - GROUND FLOOR PROCESS PLAN

LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM

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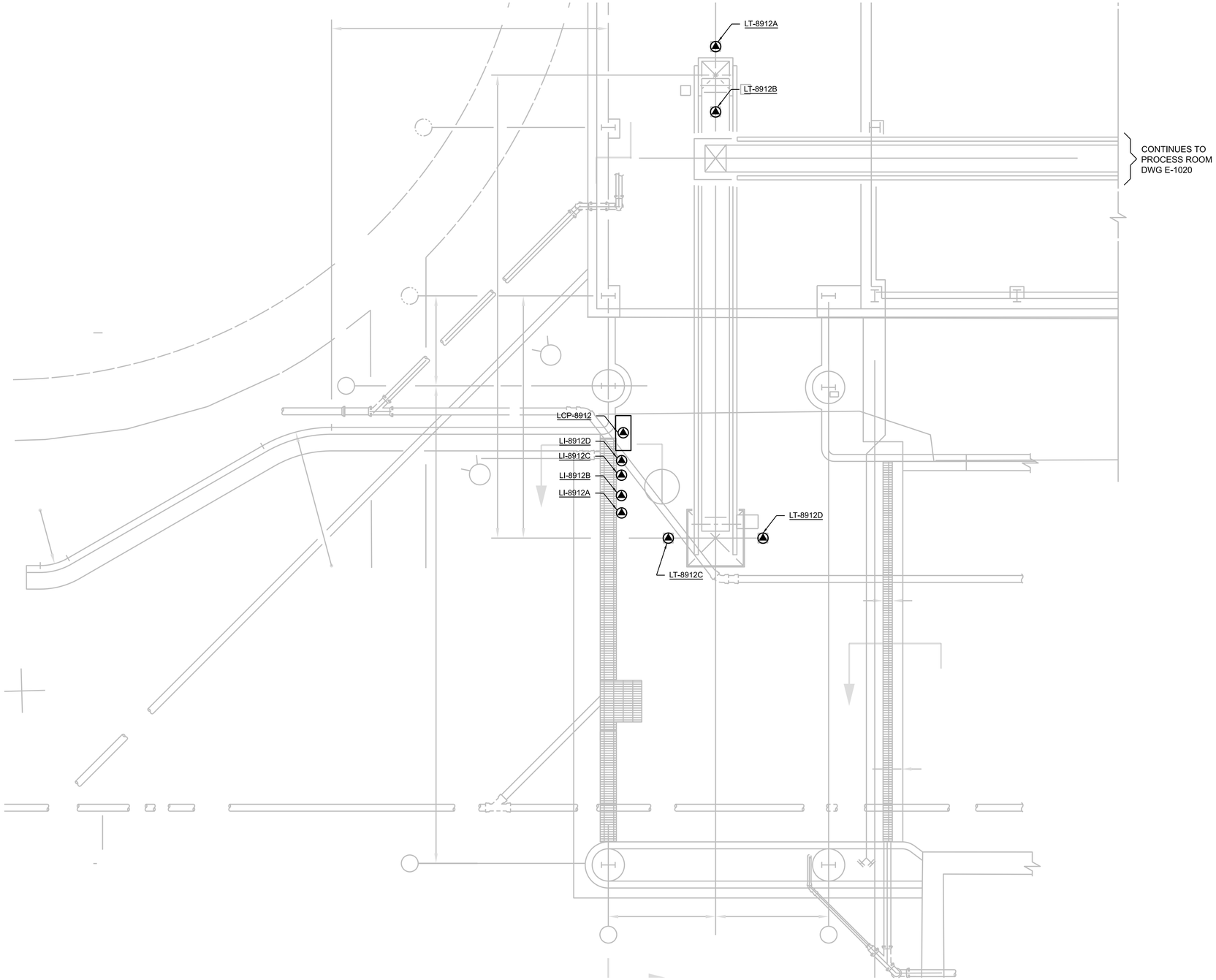
503-618-2525

Jacobs

FILENAME: E-1020_D3838501.dwg PLOT DATE: 2-MAR-2026 PLOT TIME: 17:53



N

PLAN
1/4"=1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.
4. REFER TO DWG G-0085 FOR THE AREA CLASSIFICATION AND MATERIALS SELECTION TABLE.
5. REFER TO DWGS E-6020 THROUGH E-6022 FOR CONDUIT BLOCK DIAGRAMS, AND G-0071 FOR CONDUCTOR AND CONDUIT INFORMATION.
6. CONTRACTOR TO FIELD VERIFY EXISTING GROUNDING CONNECTIONS AND PROVIDE BONDING OF ALL NEW METAL STRUCTURES AND ELECTRICAL PANELS PER DETAIL 2605-207 AND 2605-215.

DATE	NO.	REVISION	BY

DESIGNED: JH
DRAWN: CM
CHECKED: HR
APPROVED: HL

SHEET E-1021
99 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 14A5205 — Digital Signature — JACOB HELT — EXP: 06/30/27

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HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: ELECTRICAL - GROUND FLOOR PROCESS PLAN

LOCATION: IN THE CITY OF GRESHAM

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CITY OF GRESHAM

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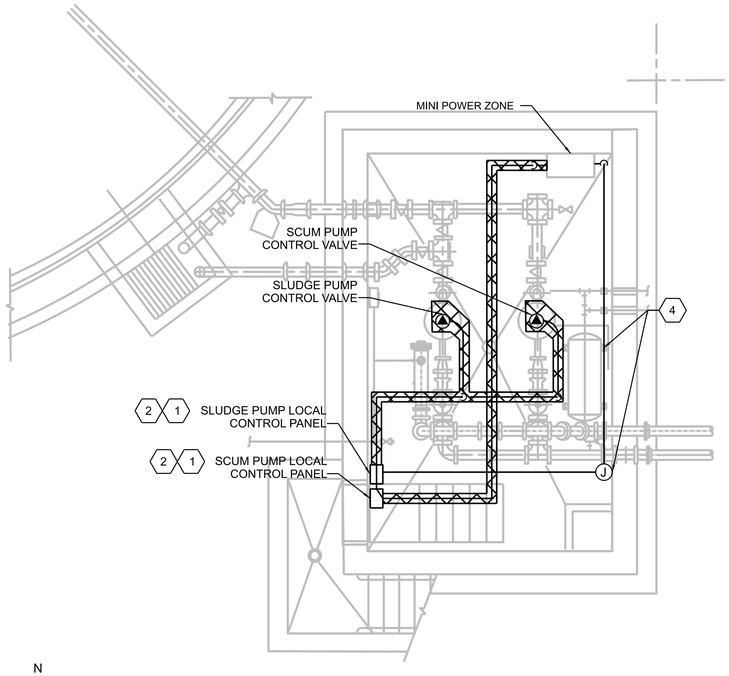
503-618-2525

Jacobs

FILENAME: E-1020_D3838501.dwg PLOT DATE: 2-MAR-2026 PLOT TIME: 11:55



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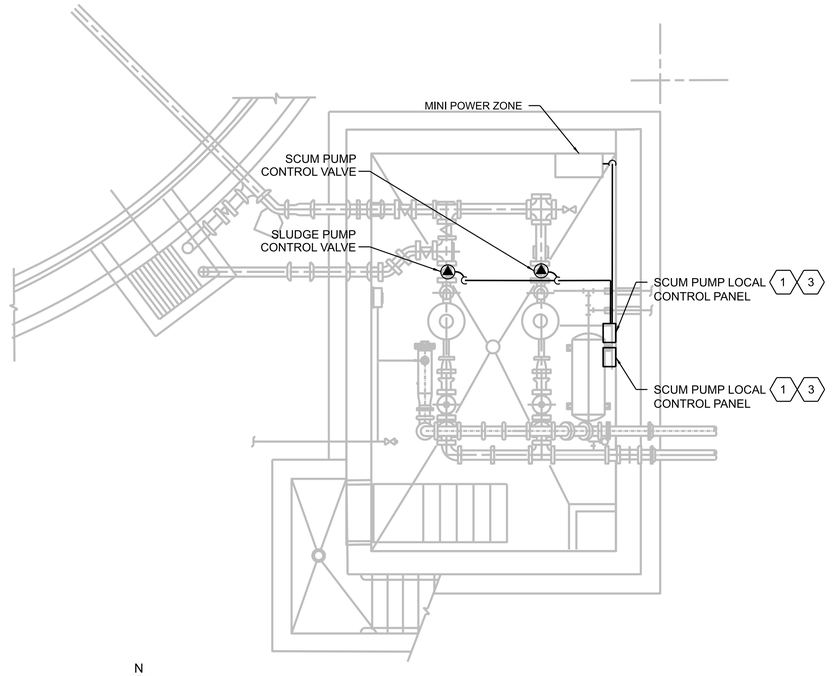
PUMP STATION NO.1 DEMOLITION PLAN

1/4"=1'-0"



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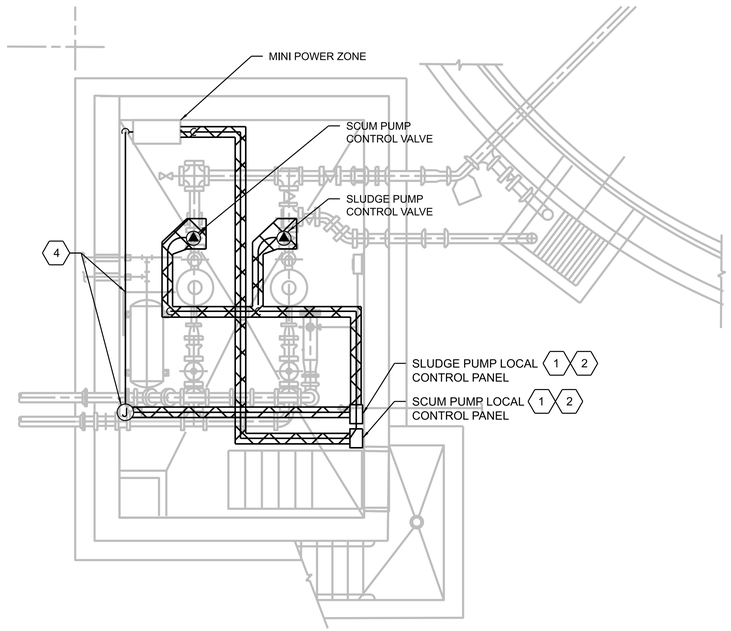
PUMP STATION NO.1 PROCESS PLAN

1/4"=1'-0"



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PUMP STATION NO.2 DEMOLITION PLAN

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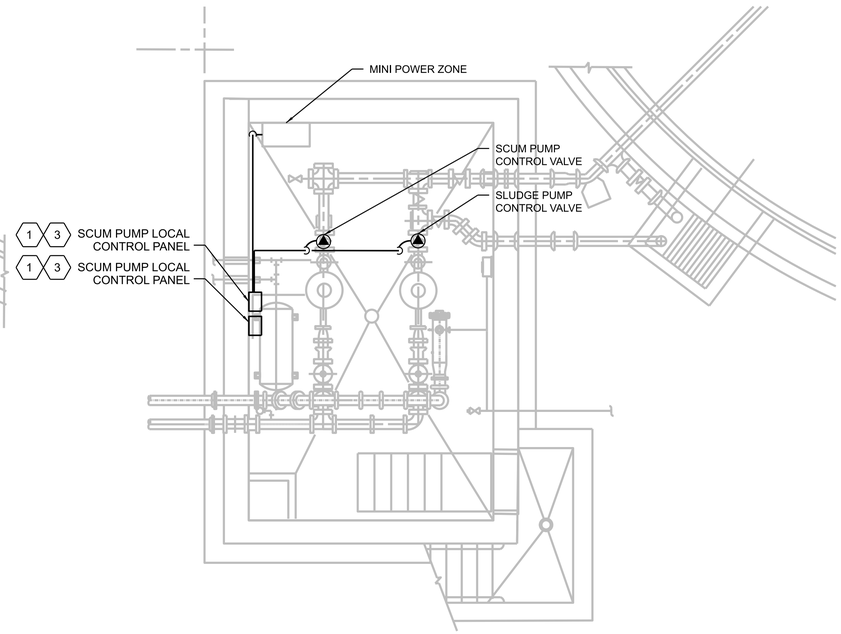

N

PUMP STATION NO.2 PROCESS PLAN

1/4"=1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.
4. REFER TO DWG G-0085 FOR THE AREA CLASSIFICATION AND MATERIALS SELECTION TABLE.
5. REFER TO DWGS E-6020 THROUGH E-6022 FOR CONDUIT BLOCK DIAGRAMS, AND G-0071 FOR CONDUCTOR AND CONDUIT INFORMATION.
6. ONLY PERTINENT EXISTING CONDUITS ARE SHOWN. CONTRACTOR TO FIELD VERIFY EXISTING CIRCUIT ROUTING PRIOR TO DEMO.
7. TREAT CUT ANCHORS AND EMBEDS PER DETAIL 0330-143.

SHEET KEYNOTES

1. SLUDGE AND SCUM PUMP LOCAL CONTROL PANELS TO BE REMOVED AND RELOCATED.
2. DE-TERMINATE AND PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX, COIL AND PROTECT FOR RE-USE. DEMOLISH CONDUITS BACK TO SOURCE, OR NEAREST RE-USABLE SECTION.
3. PROVIDE CONDUIT FROM SOURCE TO NEW PANEL LOCATIONS. PULL EXISTING WIRING, AND TERMINATE TO MATCH EXISTING INSTALLATION.
4. EXISTING J-BOX AND CONDUIT TO REMAIN.

DATE	NO.	REVISION	BY

DESIGNED: JD
DRAWN: CM
CHECKED: RH
APPROVED: HL

SHEET E-1030
100 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 18482PE — Digital Signature — RENEWS: 06/30/27 — EXP: 06/30/27

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SCALE VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: ELECTRICAL - PUMP STATIONS 1 & 2 DEMOLITION & PROCESS PLANS

LOCATION: IN THE CITY OF GRESHAM

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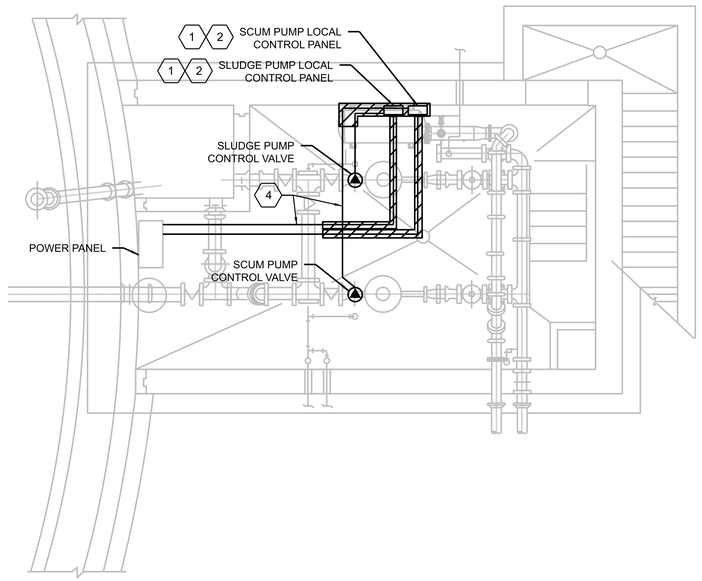
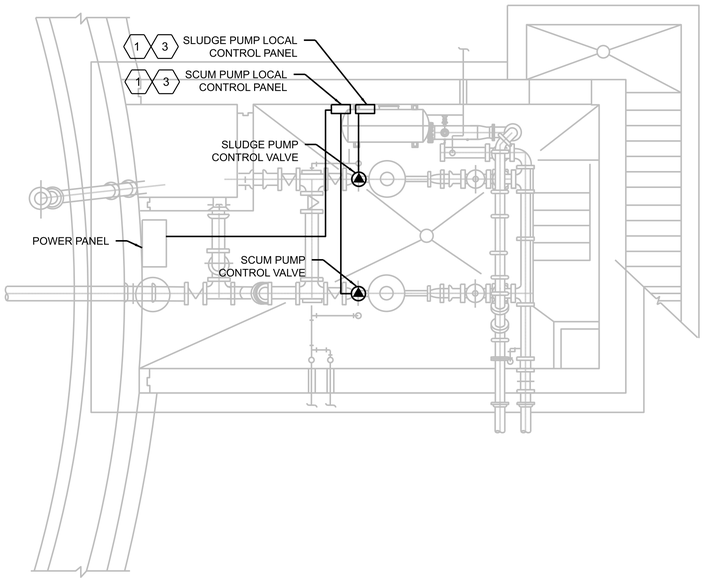
FILENAME: E-1030_D3838501.dwg PLOT DATE: 27-FEB-2026 PLOT TIME: 13:16



N

PUMP STATION NO.3 DEMOLITION PLAN

1/4"=1'-0"



N

PUMP STATION NO.3 PROCESS PLAN

1/4"=1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.
2. SEE SPECIFICATION SECTION 01 31 13 PROJECT COORDINATION FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
3. SEE SPECIFICATION SECTION 02 41 00 DEMOLITION FOR ADDITIONAL REQUIREMENTS.
4. REFER TO DWG G-0085 FOR THE AREA CLASSIFICATION AND MATERIALS SELECTION TABLE.
5. REFER TO DWGS E-6020 THROUGH E-6022 FOR CONDUIT BLOCK DIAGRAMS, AND G-0071 FOR CONDUCTOR AND CONDUIT INFORMATION.
6. ONLY PERTINENT EXISTING CONDUITS ARE SHOWN. CONTRACTOR TO FIELD VERIFY EXISTING CIRCUIT ROUTING PRIOR TO DEMO.
7. TREAT CUT ANCHORS AND EMBEDS PER DETAIL 0330-143.

SHEET KEYNOTES

1. SLUDGE AND SCUM PUMP LOCAL CONTROL PANELS TO BE REMOVED AND RELOCATED.
2. DE-TERMINATE AND PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX, COIL AND PROTECT FOR RE-USE. DEMOLISH CONDUITS BACK TO SOURCE, OR NEAREST RE-USABLE SECTION.
3. PROVIDE CONDUIT FROM SOURCE TO NEW PANEL LOCATIONS. PULL EXISTING WIRING, AND TERMINATE TO MATCH EXISTING INSTALLATION.
4. EXISTING J-BOX AND CONDUIT TO REMAIN.

Jacobs

NO.	DATE	REVISION	BY

DESIGNED: JD
DRAWN: CM
CHECKED: RH
APPROVED: HL

SHEET E-1031 101 OF 110

REGISTERED PROFESSIONAL ENGINEER — JACOB HELT — 18482PE — OREGON — Digital Signature — Exp: 06/30/27

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DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: ELECTRICAL - PUMP STATION 3 DEMOLITION & PROCESS PLANS

LOCATION: IN THE CITY OF GRESHAM

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FILENAME: E-1031_D3838501.dwg PLOT DATE: 27-FEB-2026 PLOT TIME: 13:15

SHEET KEYNOTES

1. CON-7421
   CENTRIFUGE DISCHARGE CONVEYOR 1
2. CON-7431
   CENTRIFUGE DISCHARGE CONVEYOR 1
3. CON-7422
   CENTRIFUGE DISCHARGE CONVEYOR 2
4. CON-7432
   CENTRIFUGE DISCHARGE CONVEYOR 2
5. LCP-7401
   CENTRIFUGE 1
6. LCP-7402
   CENTRIFUGE 2
7. PMP-7611
   POLYMER RECIRCULATION PUMP 1
8. PMP-7661
   DEWATERING RECIRCULATION PUMP 1
9. PMP-7662
   DEWATERING RECIRCULATION PUMP 2
10. PMP-7663
    DEWATERING RECIRCULATION PUMP 3
11. CRN-7481
    MONORAIL 1
    HOSIT 1
12. CRN-7482
    MONORAIL 2
    HOIST 2
13. FLOW CONTROL VALVE
    FV-7411 / FV-7451 / FV-7471
14. FLOW CONTROL VALVE
    FV-7412 / FV-7452 / FV- 7472

PHOTO DETAIL 1
MCC-I SECTIONS 8 -13

PHOTO DETAIL 2
MCC-I SECTIONS 1 -7

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DATE	NO.	REVISION	BY

DESIGNED: JD
DRAWN: CM
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APPROVED: HL

SHEET
E-5001
102 OF 110

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DATE: MARCH 2026

PROJECT NO.: CIPWW00047

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SECTION | TOWNSHIP | RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: ELECTRICAL - MCC DETAILS

LOCATION:
IN THE CITY OF GRESHAM

CITY OF GRESHAM

DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

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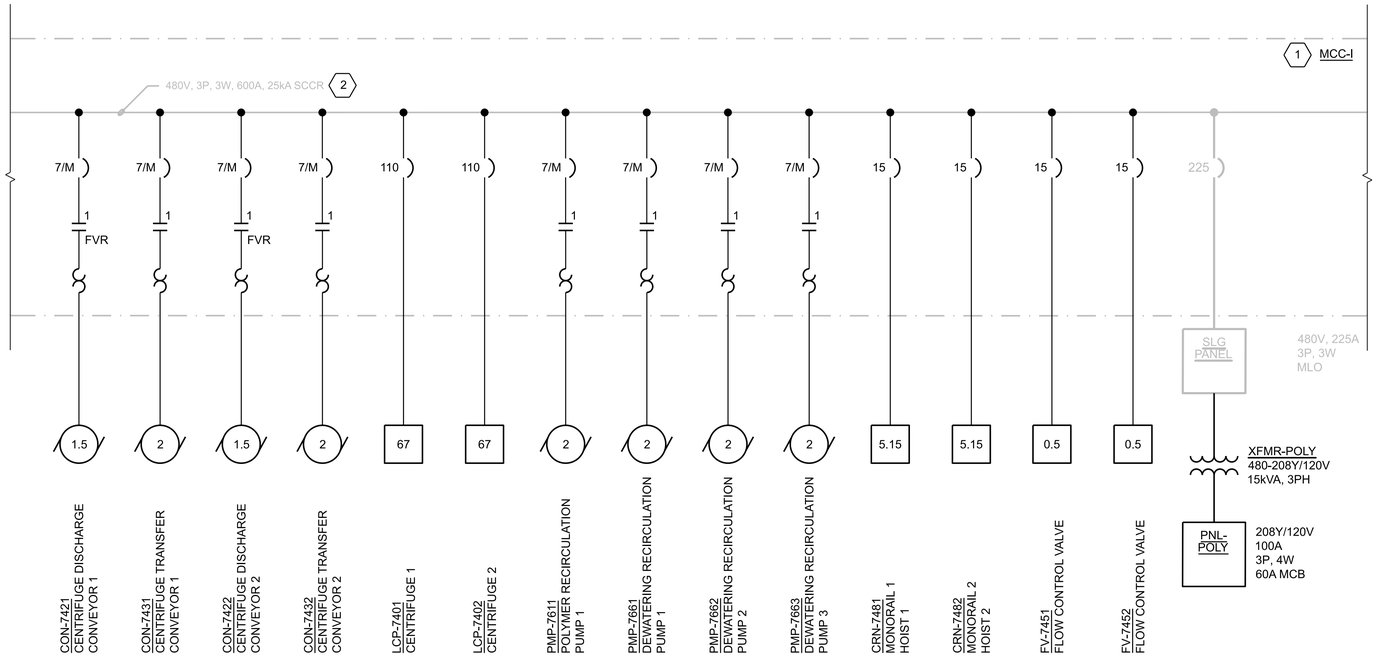

MCC-I PARTIAL ONE-LINE DIAGRAM

CIRCUIT DESCRIPTION	KVA	HP	FLA	QTY	TOTAL AMPS
DEMO MOTOR LOADS					
BELT FILTER PRESS			40.0	2	-80.0
POLYMER PACKAGE FEEDER MCP			74.0	1	-74.0
SLG OREGE SKID			76.0	1	-76.0
NEW MOTOR LOADS					
CENTRIFUGE*	14.6	50.0	83.6	2	167.2
TRANSFER CONVEYOR		2.0	3.4	2	6.8
DISCHARGE CONVEYOR		1.5	3.0	2	6.0
POLYMER RECIRC PUMP		2.0	3.4	4	13.6
MONORAIL		4.0	0.0	2	0.0
POLYMER BLEND UNIT		1.0	2.1	5	10.5
FLOW CONTROL VALVE ACTUATOR		1.0	2.1	2	4.2
NEW NON-MOTOR LOADS					
PNL-POLY	8.0		9.6	1	9.6
SUBTOTAL					-13.2
+ 25% OF APPX CONTINUOUS LOAD					2.4
NET AMPS @ 480V/3PHASE					-10.8

* CENTRIFUGE LOAD SHOWN IS FOR A 40HP/10HP SYSTEM. IF THE MAX 50HP/20HP SYSTEM IS SELECTED, PROVIDE POWER MONITORING PER NEC 220.87 AND SUBMIT TO PROJECT REPRESENTATIVE FOR REVIEW PRIOR TO CENTRIFUGE PURCHASE.

MCC-I LOAD CALCULATIONS

GENERAL SHEET NOTES

1. SEE DWG E-6030 FOR PANEL SCHEDULES.

SHEET KEYNOTES

1. MCC-I IS AN EXISTING GE 8000 LINE MCC, CAT. NO. 562X0185M02, SERIAL NO. F-212529.
2. CONTRACTOR TO CONFIRM SCCR OF MCC PRIOR TO PROCUREMENT OF REPLACEMENT BUCKETS.

DATE	NO.	REVISION	BY

DESIGNED: JD
DRAWN: CM
CHECKED: RH
APPROVED: HL

SHEET E-6001
103 OF 110

PROFESSIONAL ENGINEER — JACOB HELSEL — 19462PE — Digital Signature — OREGON — EXP: 06/30/27

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HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: ELECTRICAL - MCC-I PARTIAL ONE-LINE DIAGRAM

LOCATION: IN THE CITY OF GRESHAM

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PLOT TIME: 13:15
PLOT DATE: 27-FEB-2026
FILENAME: E-6001_D3838501.dwg

CENTRIFUGE 1 CONDUIT BLOCK DIAGRAM

CENTRIFUGE 2 CONDUIT BLOCK DIAGRAM

Jacobs

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DESIGNED: JD
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APPROVED: HL

SHEET E-6020 104 OF 110

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: ELECTRICAL - CENTRIFUGE CONDUIT BLOCK DIAGRAM

LOCATION: IN THE CITY OF GRESHAM

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503-618-2525

PLOT TIME: 13:42
PLOT DATE: 27-FEB-2026
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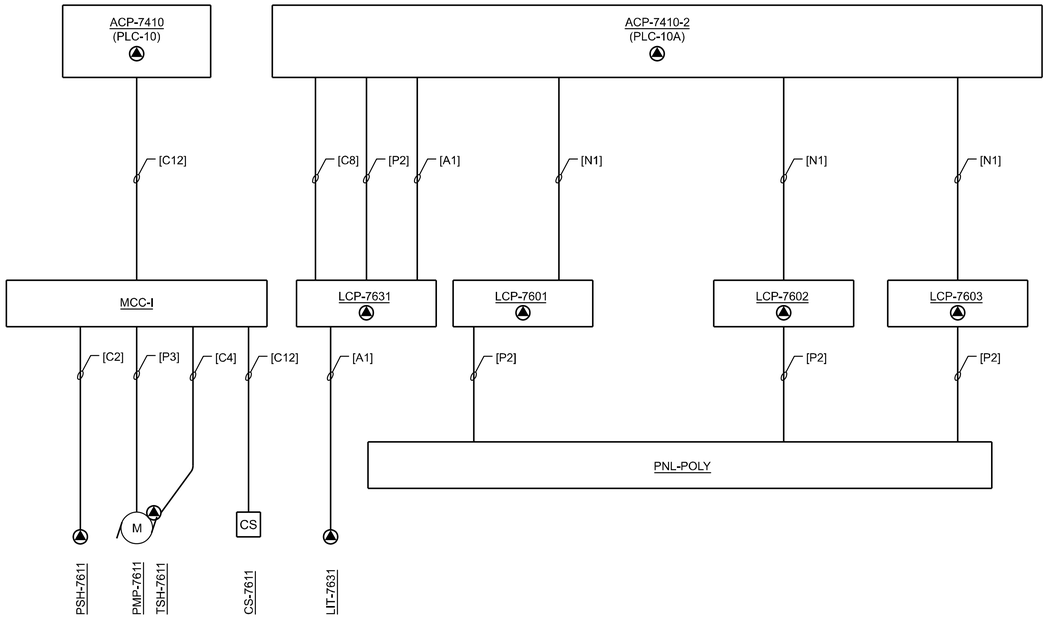
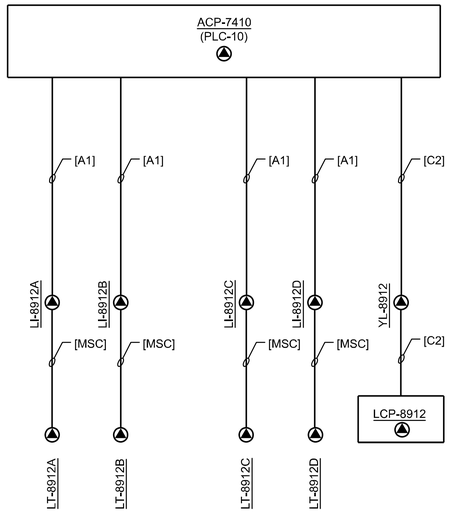
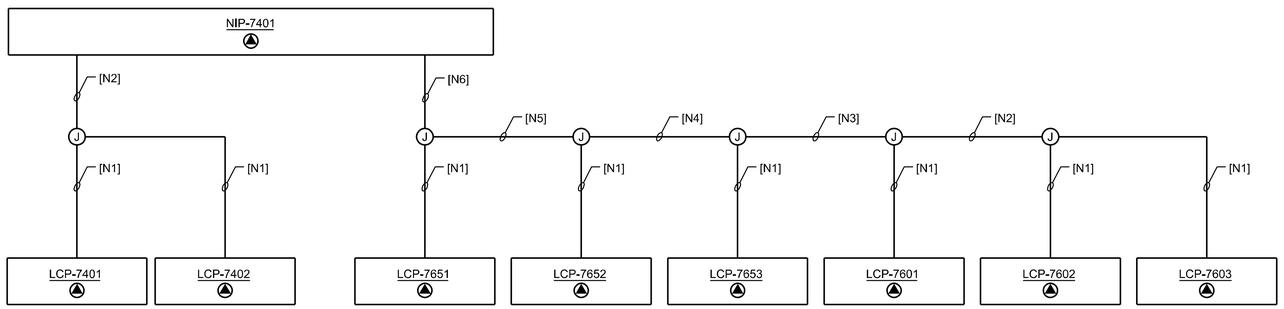


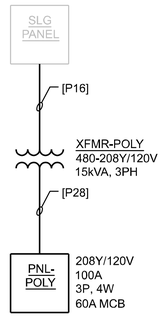
THICKENING POLYMER CONDUIT BLOCK DIAGRAM



CONVEYOR SYSTEM CONDUIT BLOCK DIAGRAM



NETWORKING CONDUIT BLOCK DIAGRAM



POWER DISTRIBUTION

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DATE	NO.	REVISION	BY

DESIGNED: JD
DRAWN: CM
CHECKED: RH
APPROVED: HL

SHEET
E-6021
105 OF 110

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REGISTERED PROFESSIONAL ENGINEER — STATE OF OREGON — 15482PE — Digitally Signed — JACOB HELT — EXP: 06/30/27

SCALE VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: ELECTRICAL - POLYMER & CONVEYOR CONDUIT BLOCK DIAGRAMS

LOCATION: IN THE CITY OF GRESHAM

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503-618-2525

PLOT TIME: 17:55
PLOT DATE: 2-MAR-2026
FILENAME: F-6021_D3838501.dwg

DEWATERING POLYMER CONDUIT BLOCK DIAGRAM

NO.	DATE	REVISION	BY

DESIGNED: JD
DRAWN: CM
CHECKED: RH
APPROVED: HL

SHEET E-6022
106 OF 110

PROFESSIONAL ENGINEER — JACOB HELTZEL — 10482PE — OREGON — Digital Signature — EXP: 08/30/27

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: ELECTRICAL - DEWATERING POLYMER CONDUIT

LOCATION: IN THE CITY OF GRESHAM

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FILENAME: E-6022_D3838501.dwg PLOT DATE: 2-MAR-2026 PLOT TIME: 17:59

SHEET KEYNOTES

1. PANEL IS EXISTING. NEW LOADS AND SCOPE SHOWN IN BOLD.
2. CONTRACTOR TO CONFIRM PANEL SLG SCCR RATING, AND PROVIDE BREAKER WITH MATCHING INTERRUPTING RATING.
3. REFEED EXISTING CIRCUIT TO THE NEW PANEL LOCATION.

PANEL SLG (1)

VOLTAGE: 480/277 | PANEL BUS: 225 AMPS | SERVICE RATED: NO
PHASE, WIRES: 3, 4 | MAIN: 225A LUGS | NEUTRAL: ISOLATED
SCR (AMPS): 22,000 (2) | 125% OF MAX BUS LOAD: 11 AMPS | MOUNTING: SURFACE
SOURCE: MCC-I | TOTAL LOAD: 6.5 KVA | FEED: TOP/BOTTOM

DESCRIPTION	KVA	CB	CKT	A	B	C	CKT	CB	KVA	DESCRIPTION
	0.00		1	0.0			2		**0.00**	
SPARE	**0.00**	60/3	3		0.0		4	20/3	**0.00**	**SPARE**
	0.00		5			0.0	6		**0.00**	
	0.00		7	8.1			8		**2.24**	
SPARE	**0.00**	15/3	9		7.7		10	**30/3**	**2.12**	**XFMR-POLY** (2)
	0.00		11			7.7	12		**2.12**	
SPACE			13	0.0			14			SPACE
SPACE			15		0.0		16			SPACE
SPACE			17			0.0	18			SPACE
			TOTALS	**8.1**	**7.7**	**7.7**	AMPS			

PNL-POLY

VOLTAGE: 208/120 | PANEL BUS: 100 AMPS | SERVICE RATED: NO
PHASE, WIRES: 3, 4 | MAIN: 60A BREAKER | NEUTRAL: BONDED
SCR (AMPS): 10,000 | 125% OF MAX BUS LOAD: 48.1 AMPS | MOUNTING: SURFACE
SOURCE: PANEL SLG, XFMR-POLY | TOTAL LOAD: 8.0 KVA | FEED: TOP/BOTTOM

DESCRIPTION	KVA	CB	CKT	A	B	C	CKT	CB	KVA	DESCRIPTION
THICK POLY BLEND UNIT 1, LCP-7601	1.00	15/1	1	16.7			2	15/1	1.00	DEWATER POLY BLEND UNIT 1, LCP-7651
THICK POLY BLEND UNIT 2, LCP-7602	1.00	15/1	3		16.7		4	15/1	1.00	DEWATER POLY BLEND UNIT 2, LCP-7652
THICK POLY BLEND UNIT 3, LCP-7603	1.00	15/1	5			16.7	6	15/1	1.00	DEWATER POLY BLEND UNIT 3, LCP-7653
THICK POLY UNLOAD PANEL, LCP-7631	0.12	15/1	7	2.0			8	15/1	0.12	POLYMER UNLOAD PANEL, LCP-7530
ACP-7410-2 (PLC-10A)	2.50	30/1	9		21.8		10	15/1	0.12	POLYMER UNLOAD PANEL, LCP-7540
SPARE		20/1	11			1.0	12	15/1	0.12	POLYMER UNLOAD PANEL, LCP-7685
SPACE			13	0.0			14			SPACE
SPACE			15		0.0		16			SPACE
SPACE			17			0.0	18			SPACE
SPACE			19	0.0			20			SPACE
SPACE			21		0.0		22			SPACE
SPACE			23			0.0	24			SPACE
SPACE			25	0.0			26			SPACE
SPACE			27		0.0		28			SPACE
SPACE			29			0.0	30			SPACE
			TOTALS	**18.7**	**38.5**	**17.7**	AMPS			

POWER CENTER: P1 (1)

SERVICE: 480-120/208V, 3Ø | RATING: 22.5 KVA | LOCATION: SLUDGE PUMPING STATION NO.1
MOUNTING: SURFACE | 3P-80A MAIN BREAKER

LOAD	P	BKR	CKT#	BKR	P	LOAD
LIGHTS	1	20	1 2	20	3	EDH-P01
RECEPTACLES	1	20	3 4	--	-	-
SCUM PUMP CALIBRATION LIGHTS	1	20	5 6	--	-	-
CF-P01, CF-P02	1	20	7 8	20	3	EUH-P01
SPARE	1	20	9 10	--	-	-
SPARE	1	20	11 12	--	-	-
(3) SLUDGE PUMP CONTROL PANEL	1	20	13 14	20	3	SUM-P01
(3) SCUM PUMP CONTROL PANEL	1	20	15 16	--	-	-
SPARE	1	20	17 18	--	-	-

POWER CENTER: P2 (1)

SERVICE: 480-120/208V, 3Ø | KVA RATING: 22.5 KVA | LOCATION: SLUDGE PUMPING STATION NO.2
MOUNTING: SURFACE | 3P-80A MAIN BREAKER

LOAD	P	BKR	CKT#	BKR	P	LOAD
LIGHTS	1	20	1 2	20	3	EDH-P02
RECEPTACLES	1	20	3 4	--	-	-
SCUM PUMP CALIBRATION LIGHTS	1	20	5 6	--	-	-
CF-P03, CF-P04	1	20	7 8	20	3	EUH-P02
SPARE	1	20	9 10	--	-	-
SPARE	1	20	11 12	--	-	-
(3) SLUDGE PUMP CONTROL PANEL	1	20	13 14	20	3	SUM-P02
(3) SCUM PUMP CONTROL PANEL	1	20	15 16	--	-	-
SPARE	1	20	17 18	--	-	-

PNL-LH (1)

VOLTAGE: 208/120 | PANEL BUS: 100 AMPS | SERVICE RATED: NO
PHASE, WIRES: 3, 4 | MAIN: 50A BREAKER | NEUTRAL: BONDED
SCR (AMPS): 10,000 | 125% OF MAX BUS LOAD: 2 AMPS | MOUNTING: SURFACE
SOURCE: MCC-H, TFR-LH | TOTAL LOAD: 0.2 KVA | FEED: TOP/BOTTOM

DESCRIPTION	KVA	CB	CKT	A	B	C	CKT	CB	KVA	DESCRIPTION
LIGHTS - HEADWORKS, OUTSIDE		20/1	1	0.0			2	20/1		LIGHTS - HEADWORKS, NORTH & WEST
LIGHTS - GRIT PUMP, UNDER MEZZ		20/1	3		0.0		4	20/1		LIGHTS - HEADWORKS, SOUTH & EAST
CLARIFIER 1 FLOW METER FIT-3621		20/1	5			0.0	6	20/1		HEADWORKS LIGHTING CONTROL
CLARIFIER 3 FLOW METER FIT-3622		20/1	7	0.0			8	20/1		HEATING UNIT HUH-R01/02/03/04
CLARIFIER 2 FLOW METER FIT-3623		20/1	9		0.0		10	20/1		HEATING UNIT HUH-R05/06/07/08/09/10
DIGESTED SLUDGE FLOW METER FM-4		20/1	11			0.0	12	20/1		HEATING UNIT HUH-R15/16/17/18/21/22
DIGESTED SLUDGE FLOW METER FM-R		20/1	13	0.0			14	20/1		HEATING UNIT HUH-R11/12/13/14/19/20, BFP-1
RECEPTACLE - BELT CAMERA		20/1	15		0.0		16	20/1		ROOF FANS PRF-402 PRF-R05
SOLIDS CONTROL PANEL		20/1	17			0.0	18	20/1		PLC 4 & I/O INTERFACE
WAS #3 FLOW METER FM-403		20/1	19	0.0			20	20/1		SLUDGE HOPPER LIMITS
WAS #2 FLOW METER FM-R02		20/1	21		0.0		22	20/1		HEATING UNIT HUH-H01/02/05/06/09
WAS #1 FLOW METER FM-R01		20/1	23			0.0	24	20/1		HEATING UNIT HUH-H03/04/07/08/10
AUTOMATIC SAMPLER AS-H01		20/1	25	0.0			26	20/1		LIGHTS - CONSTANT POWER, STAIRWELL
LIGHT - TRUCK BAY		20/1	27		0.0		28	20/1		FEEDER BLENDER PFS-R02
LIT 3, PRIMARY SAMPLER		20/1	29			0.0	30	20/1		ROOF FANS MP-R01/R02
LIGHT - HEADWORKS		20/3	31	0.0			32	20/1		PRV-06
		-	33		0.0		34	20/1		BASEMENT AUTO AIR DRAIN TJB-7311
		-	35			0.0	36	20/1		RECEPTACLE - TRUCK BAY
MAIN		50/3	37	0.8			38	20/1	**0.1**	**FV-7411 / FV-7471**
		-	39		0.8		40	20/1	**0.1**	**FV-7412 / FV-7472**
		-	41			0.0	42	-		SPACE
			TOTALS	0.8	0.8	0.0	AMPS			

Jacobs

CITY OF GRESHAM
DEPARTMENT OF ENVIRONMENTAL SERVICES
1333 N.W. EASTMAN PARKWAY
GRESHAM, OREGON 97030-3813
503-618-2525

DATE	NO.	REVISION	BY

DESIGNED: JD | DRAWN: CM | CHECKED: RH | APPROVED: HL

SHEET E-6030 107 OF 110

REGISTERED PROFESSIONAL ENGINEER — OREGON — 154822PE — Digital Signature — JACOB HELT — EXP: 06/30/27

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT
SHEET NAME: ELECTRICAL - PANEL SCHEDULES
LOCATION: IN THE CITY OF GRESHAM

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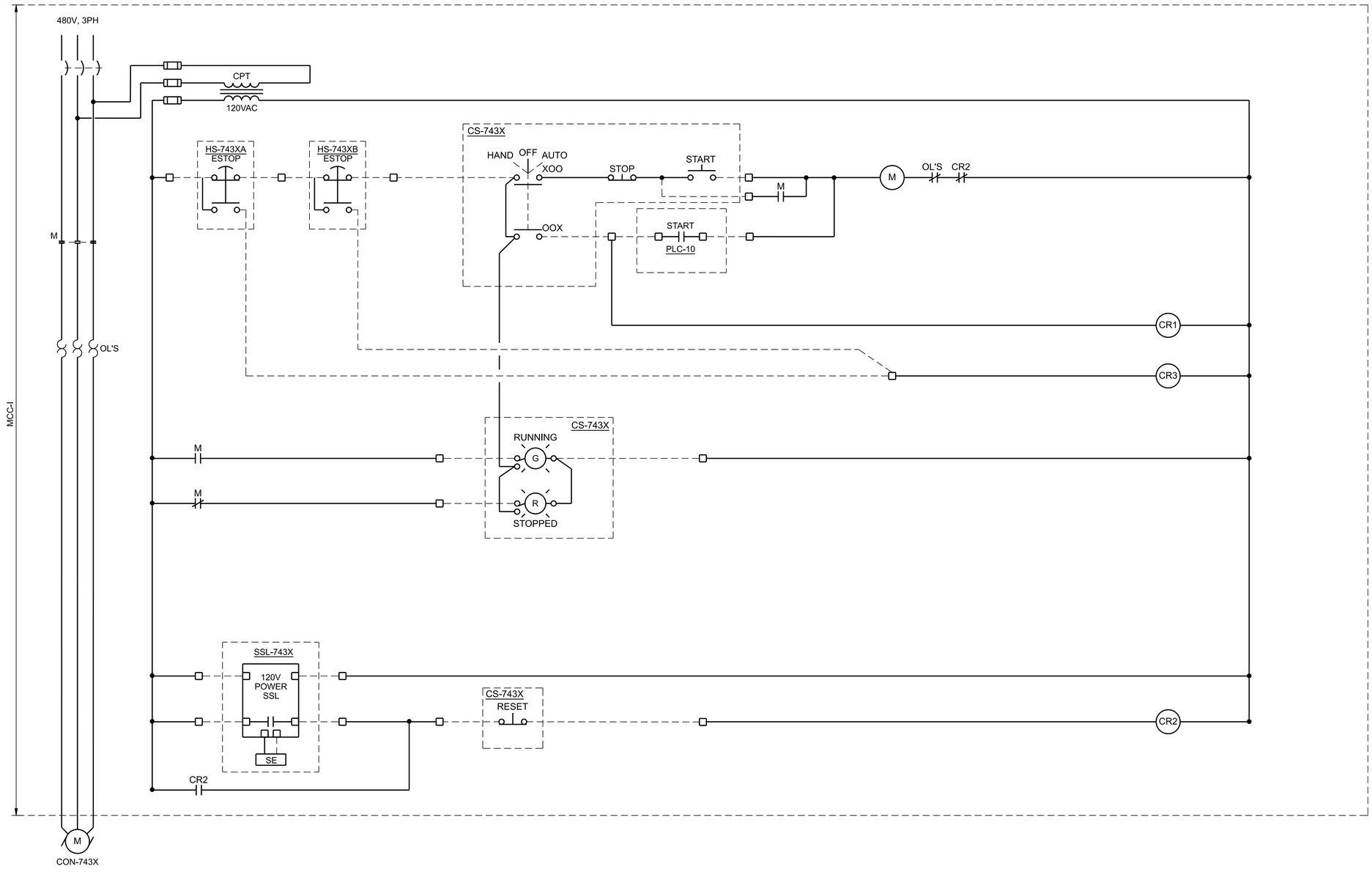
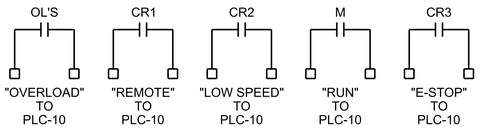
PLOT TIME: 11:17
PLOT DATE: 3-MAR-2026
FILENAME: E-6030_D3838501_1.dwg





TAG NUMBER	DESCRIPTION	ASSOCIATED DEVICES
CON-7431	CENTRIFUGE TRANSFER CONVEYOR 1	SLL-7431, HS-7431A, HS-7431B, CS-7431
CON-7432	CENTRIFUGE TRANSFER CONVEYOR 2	SLL-7432, HS-7432A, HS-7432B, CS-7432

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CITY OF GRESHAM

IN THE CITY OF GRESHAM

DATE	NO.	REVISION	BY

DESIGNED: JD
DRAWN: CM
CHECKED: RH
APPROVED: HL

SHEET E-6040 108 OF 110

REGISTERED PROFESSIONAL ENGINEER — JACOB HELTZEL — 19482PE — Digital Signature — OREGON — EXP: 06/30/27

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: ELECTRICAL - MOTOR CONTROL SCHEMATICS

LOCATION:

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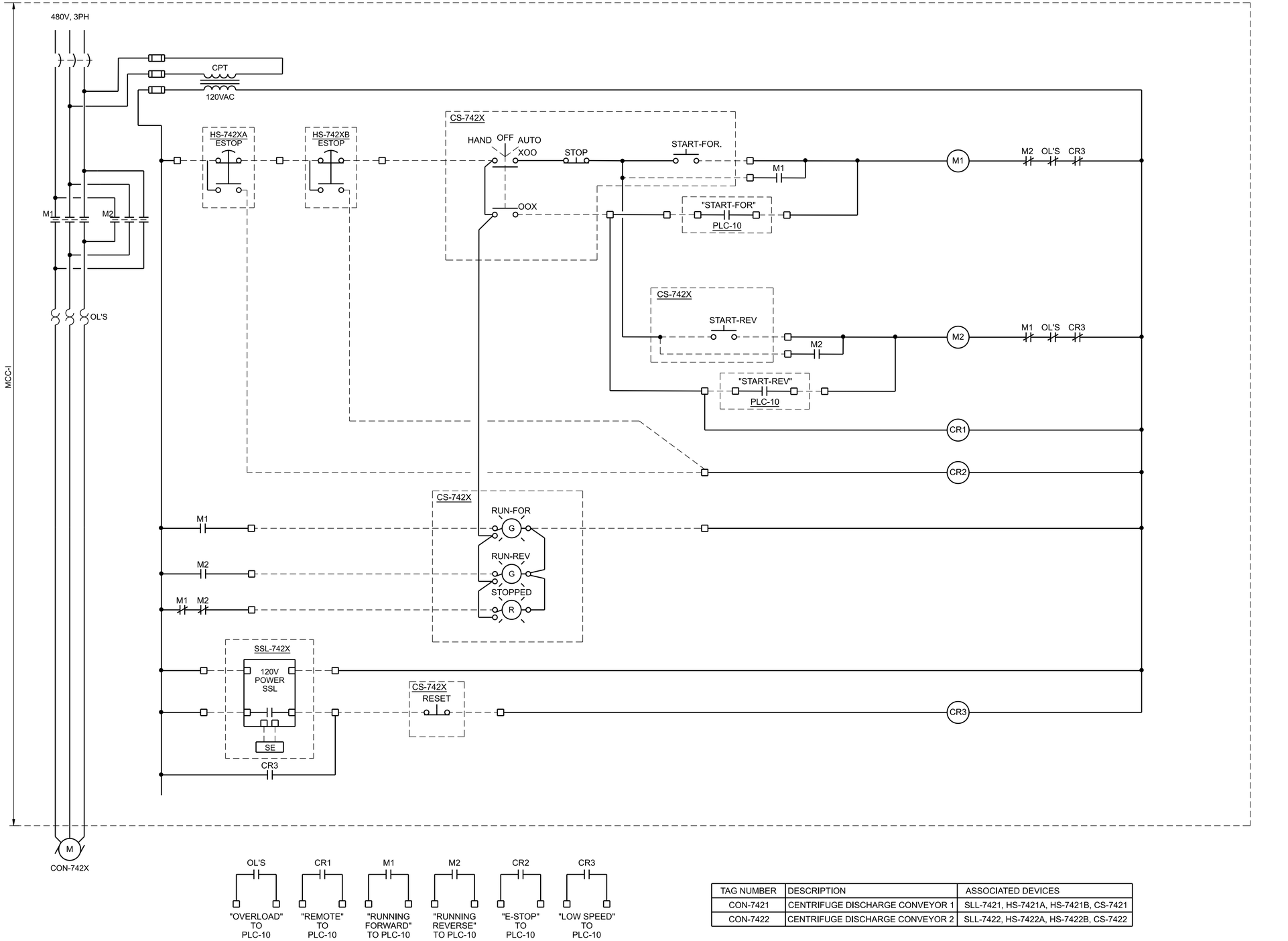

TAG NUMBER	DESCRIPTION	ASSOCIATED DEVICES
CON-7421	CENTRIFUGE DISCHARGE CONVEYOR 1	SLL-7421, HS-7421A, HS-7421B, CS-7421
CON-7422	CENTRIFUGE DISCHARGE CONVEYOR 2	SLL-7422, HS-7422A, HS-7422B, CS-7422

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DATE	NO.	REVISION	BY

DESIGNED: JD
DRAWN: CM
CHECKED: RH
APPROVED: HL

SHEET E-6041
109 OF 110

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REGISTERED PROFESSIONAL ENGINEER — 184525PE — Digital Signature — JACOB HELLEN — EXP: 08/30/27

SCALE VERT: AS SHOWN
HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
LEGAL
SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: ELECTRICAL - MOTOR CONTROL SCHEMATICS

LOCATION: IN THE CITY OF GRESHAM

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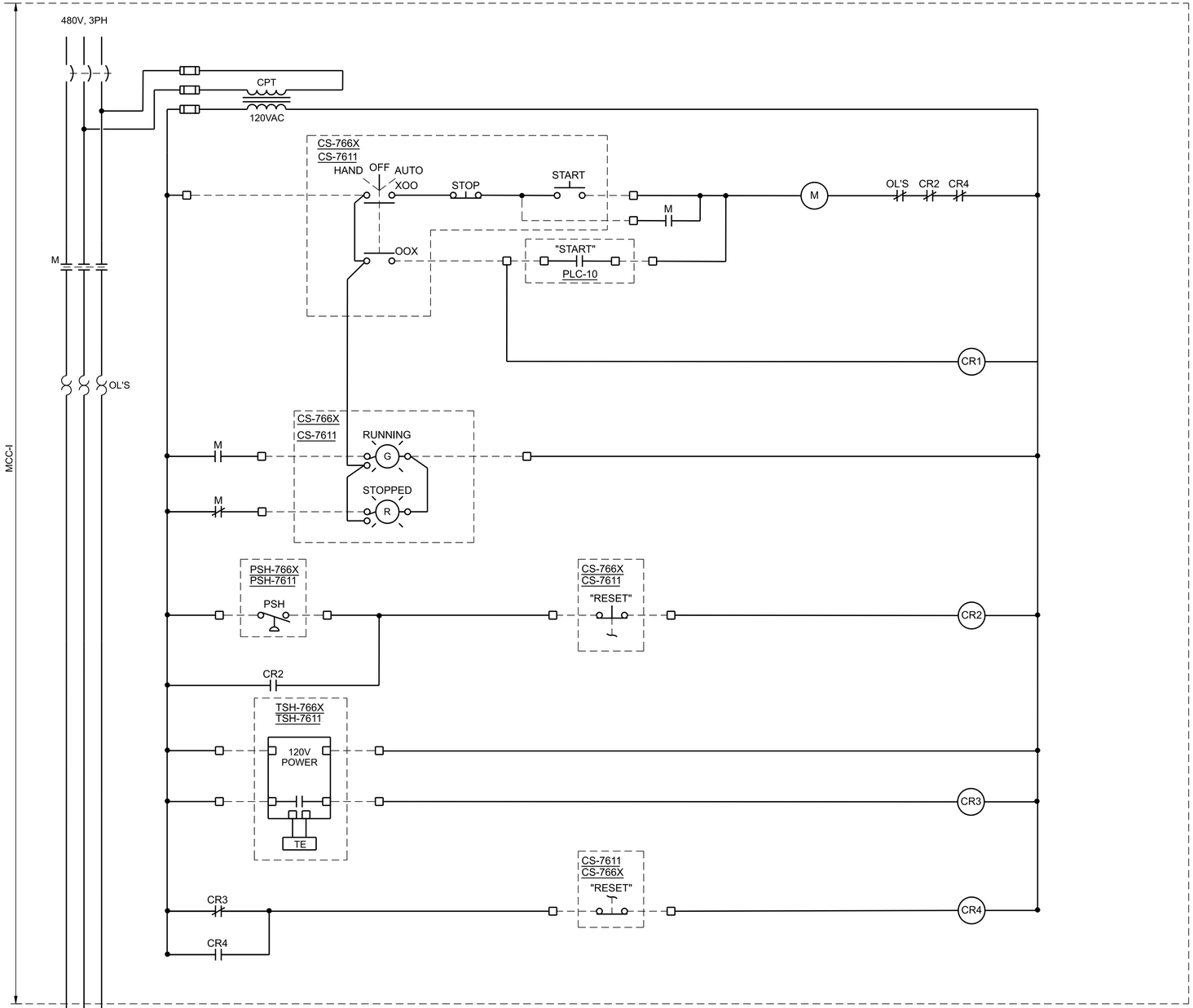
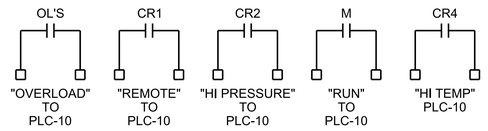
503-618-2525

PLOT TIME: 13:15
PLOT DATE: 27-FEB-2026
FILENAME: E-6041_I3838501.dwg





TAG NUMBER	DESCRIPTION	ASSOCIATED DEVICES
PMP-7661	DEWATERING RECIRCULATION PUMP 1	TSH-7661, PSH-7661, CS-7661
PMP-7662	DEWATERING RECIRCULATION PUMP 2	TSH-7662, PSH-7662, CS-7662
PMP-7663	DEWATERING RECIRCULATION PUMP 3	TSH-7663, PSH-7663, CS-7663
PMP-7611	RECIRCULATION PUMP 1	TSH-7611, PSH-7611, CS-7611

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PLOT TIME: 13:14
PLOT DATE: 27-FEB-2026
FILENAME: E-6042_I3838501.dwg

DATE	NO.	REVISION	BY

DESIGNED: JD
DRAWN: CM
CHECKED: RH
APPROVED: HL

SHEET E-6042
110 OF 110

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PROFESSIONAL ENGINEER — OREGON — 16482PE — Digital Signature — RENEWAL: 12/31/2026 — JACOB HELT — EXP: 09/30/27

SCALE VERT: AS SHOWN HORIZ: AS SHOWN
DATE: MARCH 2026
PROJECT NO.: CIPWW00047
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SECTION TOWNSHIP RANGE

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PROJECT NAME: WWTP BELT PRESS REPLACEMENT

SHEET NAME: ELECTRICAL - MOTOR CONTROL SCHEMATICS

LOCATION:

IN THE CITY OF GRESHAM

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